

LABORATORY REPORT

August 25, 2009

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

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on July 31, 2009. For your reference, these analyses have been assigned our service request number P0902624.

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 470 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, Inc.
Project: 16512

CAS Project No: P0902624

CASE NARRATIVE

The samples were received intact under chain of custody on July 31, 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 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: 16512

Folder: P0902624

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	P1 (Hg)	P1 (psig)	Pf1 (Hg)	Pf2 (psig)	Cont ID	Order #	FC ID	Bottle Order #
P0902624-001.01	99441	6.0 L-Summa Canister Ambient	-0.6	-0.3	3.5		AC00897	14117		
P0902624-002.01	99442	6.0 L-Summa Canister Ambient	0.0	0.0	3.5		AC01287	14117		
P0902624-003.01	99443	6.0 L-Summa Canister Ambient	-2.2	-1.1	3.5		AC00297	14150		
P0902624-004.01	99444	6.0 L-Summa Canister Ambient	-0.1	0.0	3.5		AC00214	14117		
P0902624-005.01	99445	6.0 L-Summa Canister Ambient	0.0	0.0	3.5		AC01312	14117		
P0902624-006.01	99448	6.0 L-Summa Canister Ambient	-30.3	-14.9	3.6		AC01082	14150		

Miscellaneous Items - received

- FC00689
- AVG01171
- FC00163
- FC00598
- FC00544
- AVG00157
- FC00056
- AVG00462
- AVG01148
- AVG01044
- AVG00962
- FC00548

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Inc.

Work order: P0902624

Project: Project # 16512 / 16512

Sample(s) received on: 07/31/09

Date opened: 07/31/09

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 checked="" type="checkbox"/> | <input 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 type="checkbox"/> | <input checked="" 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Trip blank supplied by CAS: <u>AC01082</u> | | | |
| 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
P0902624-001.01	6.0 L Ambient Can					
P0902624-002.01	6.0 L Ambient Can					
P0902624-003.01	6.0 L Ambient Can					
P0902624-004.01	6.0 L Ambient Can					
P0902624-005.01	6.0 L Ambient Can					
P0902624-006.01	6.0 L Ambient Can					

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

COC and tags did not indicate date and time collected.

Sample -006 is labeled 99248 on the container tag and 99448 on the COC. The COC has been followed for login.

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12) RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99441
Client Project ID: 16512

CAS Project ID: P0902624
CAS Sample ID: P0902624-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00897

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.3 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	2.4	0.63	1.4	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.0	0.63	0.80	0.13	
74-87-3	Chloromethane	0.75	0.13	0.36	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	0.20	0.13	0.077	0.049	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.057	
74-83-9	Bromomethane	0.58	0.13	0.15	0.032	
75-00-3	Chloroethane	ND	0.13	ND	0.048	
64-17-5	Ethanol	120	6.3	66	3.3	
75-05-8	Acetonitrile	190	0.63	120	0.38	D
107-02-8	Acrolein	7.1	0.63	3.1	0.27	
67-64-1	Acetone	190	6.3	80	2.7	
75-69-4	Trichlorofluoromethane	2.1	0.13	0.38	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	9.8	0.63	4.0	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	ND	0.63	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.57	0.13	0.075	0.016	
75-15-0	Carbon Disulfide	2.4	0.63	0.76	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	6.9	6.3	2.0	1.8	
78-93-3	2-Butanone (MEK)	11	0.63	3.6	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.

D = The reported result is from a dilution.

Verified By: _____

Date: 8/14/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99441

Client Project ID: 16512

CAS Project ID: P0902624

CAS Sample ID: P0902624-001

Test Code: EPA TO-15

Date Collected: 7/30/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 7/31/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/4/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: AC00897

Initial Pressure (psig): -0.3 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	4.9	0.63	1.4	0.17	
110-54-3	n-Hexane	0.82	0.63	0.23	0.18	
67-66-3	Chloroform	1.1	0.13	0.22	0.026	
109-99-9	Tetrahydrofuran (THF)	1.6	0.63	0.55	0.21	
107-06-2	1,2-Dichloroethane	0.39	0.13	0.096	0.031	
71-55-6	1,1,1-Trichloroethane	0.87	0.13	0.16	0.023	
71-43-2	Benzene	1.6	0.13	0.50	0.039	
56-23-5	Carbon Tetrachloride	0.63	0.13	0.10	0.020	
110-82-7	Cyclohexane	1.3	0.63	0.39	0.18	
78-87-5	1,2-Dichloropropane	0.15	0.13	0.034	0.027	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	3.8	0.13	0.71	0.023	
123-91-1	1,4-Dioxane	ND	0.63	ND	0.17	
80-62-6	Methyl Methacrylate	1.0	0.63	0.25	0.15	
142-82-5	n-Heptane	3.1	0.63	0.75	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.63	ND	0.14	
108-10-1	4-Methyl-2-pentanone	1.5	0.63	0.37	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	46	0.63	12	0.17	
591-78-6	2-Hexanone	1.3	0.63	0.32	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	5.0	0.63	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: _____

TO15scan.xls - 75 Compounds - PageNo.: _____

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99441
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P0902624-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00897

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.3 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	3.2	0.63	0.68	0.13	
127-18-4	Tetrachloroethene	2.8	0.13	0.41	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.027	
100-41-4	Ethylbenzene	6.5	0.63	1.5	0.15	
179601-23-1	m,p-Xylenes	17	0.63	4.0	0.15	
75-25-2	Bromoform	ND	0.63	ND	0.061	
100-42-5	Styrene	5.0	0.63	1.2	0.15	
95-47-6	o-Xylene	6.3	0.63	1.4	0.15	
111-84-2	n-Nonane	3.7	0.63	0.71	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	110	0.63	19	0.11	D
103-65-1	n-Propylbenzene	1.0	0.63	0.21	0.13	
622-96-8	4-Ethyltoluene	1.7	0.63	0.34	0.13	
108-67-8	1,3,5-Trimethylbenzene	1.6	0.63	0.32	0.13	
95-63-6	1,2,4-Trimethylbenzene	6.2	0.63	1.3	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	0.57	0.13	0.094	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	20	0.63	3.7	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.63	ND	0.065	
120-82-1	1,2,4-Trichlorobenzene	ND	0.13	ND	0.017	
91-20-3	Naphthalene	3.8	0.25	0.72	0.048	
87-68-3	Hexachlorobutadiene	ND	0.13	ND	0.012	

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.

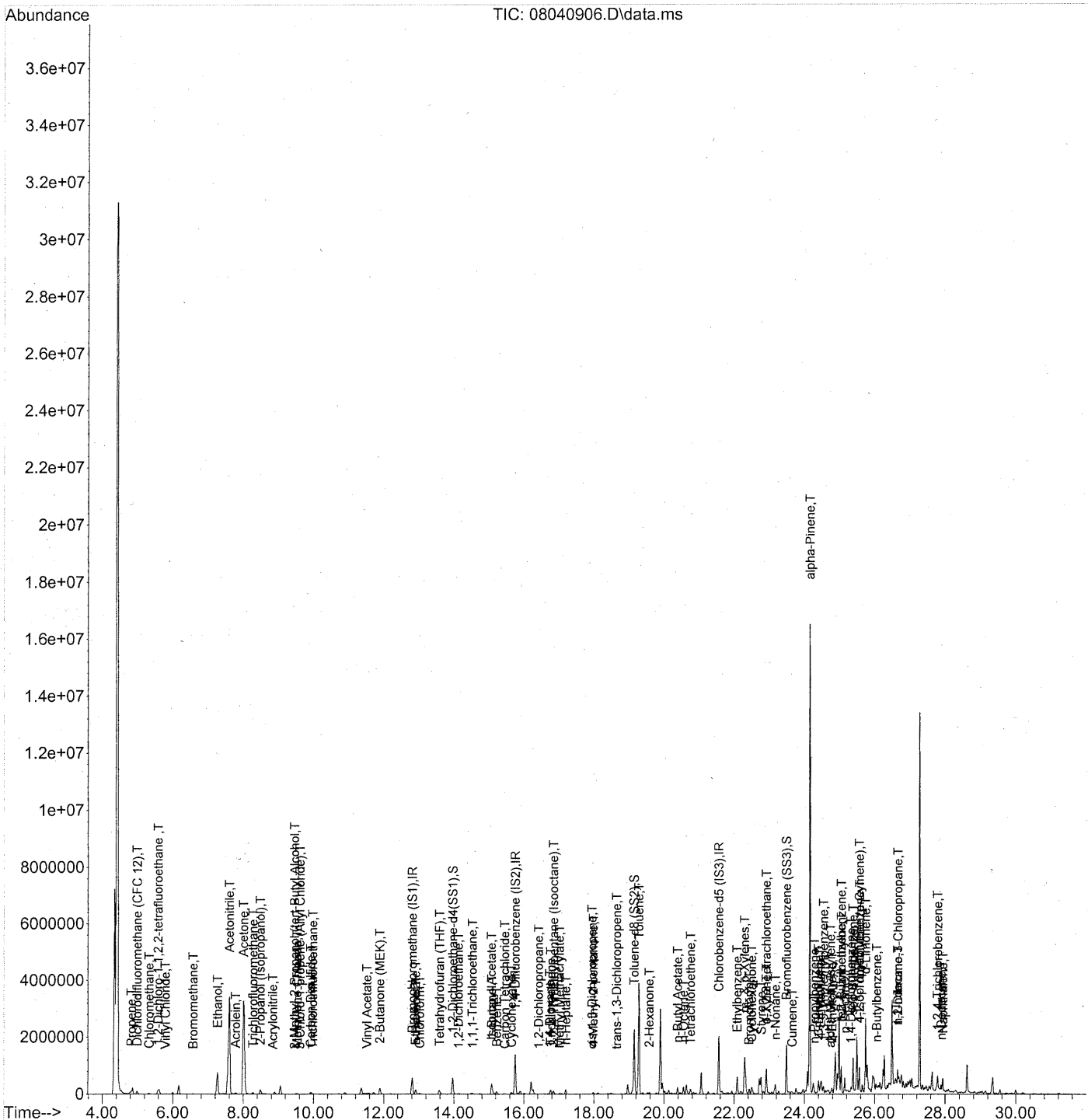
D = The reported result is from a dilution.

Verified By: _____

Date: 8/4/09

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441 ✓
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	324411	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1663677	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	822035	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	569694	24.822	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	99.28%	
57) Toluene-d8 (SS2)	19.15	98	1966994	24.186	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	96.76%	
73) Bromofluorobenzene (SS3)	23.49	174	600281	24.551	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	98.20%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	38878	1.900	ng	93
3) Dichlorodifluoromethan...	4.99	85	128721	3.151	ng	99
4) Chloromethane	5.33	50	18176	0.594	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	1391	0.060	ng	# 43
6) Vinyl Chloride	5.79	62	5096	0.156	ng	92
7) 1,3-Butadiene	6.07	54	694	N.D.		
8) Bromomethane	6.57	94	8821	0.459	ng	97
9) Chloroethane	6.93	64	449	N.D.		
10) Ethanol	7.27	45	1334652m	98.283	ng	
11) Acetonitrile	7.61	41	6248159	203.485	ng	See Dil 100
12) Acrolein	7.79	56	55757	5.632	ng	96
13) Acetone	8.01	58	2317013	150.009	ng	96
14) Trichlorofluoromethane	8.28	101	59911	1.684	ng	97
15) 2-Propanol (Isopropanol)	8.48	45	315188m	7.755	ng	
16) Acrylonitrile	8.84	53	4253	0.205	ng	< MRL 79
17) 1,1-Dichloroethene	9.32	96	114	N.D.		
18) 2-Methyl-2-Propanol (t...	9.46	59	16459	0.360	ng	# 79
19) Methylene Chloride	9.53	84	4075	0.199	ng	95
20) 3-Chloro-1-propene (Al...	9.62	41	1461	0.066	ng	# 34
21) Trichlorotrifluoroethane	9.98	151	7347	0.455	ng	95
22) Carbon Disulfide	9.92	76	130349	1.871	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.37	63	1311	N.D.		
25) Methyl tert-Butyl Ether	11.35	73	221	N.D.		
26) Vinyl Acetate	11.53	86	20259	5.499	ng	# 45
27) 2-Butanone (MEK)	11.89	72	100124	8.498	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.91	87	211	N.D.		
30) Ethyl Acetate	12.91	61	29881	3.872	ng	96
31) n-Hexane	12.91	57	23147	0.649	ng	100 11

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	27419	0.846 ng		98
34) Tetrahydrofuran (THF)	13.59	72	14386	1.296 ng	#	1
35) Ethyl tert-Butyl Ether	13.73	87	110	N.D.		
36) 1,2-Dichloroethane	14.13	62	8009	0.308 ng		95
38) 1,1,1-Trichloroethane	14.53	97	21118	0.692 ng		99
39) Isopropyl Acetate	15.07	61	2180	0.180 ng	#	1
40) 1-Butanol	15.08	56	340863	16.489 ng	#	78
41) Benzene	15.23	78	111720	1.259 ng		99
42) Carbon Tetrachloride	15.46	117	13078	0.502 ng		99
43) Cyclohexane	15.65	84	35097	1.058 ng		96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.43	63	2294	0.123 ng		95
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.77	130	68527	3.022 ng		99
48) 1,4-Dioxane	16.74	88	1228	0.082 ng		93
49) 2,2,4-Trimethylpentane...	16.85	57	116651	1.357 ng		98
50) Methyl Methacrylate	17.02	100	6855	0.824 ng		96
51) n-Heptane	17.20	71	52591	2.448 ng		99
52) cis-1,3-Dichloropropene	17.95	75	2809	0.090 ng		77
53) 4-Methyl-2-pentanone	17.99	58	20349	1.212 ng		98
54) trans-1,3-Dichloropropene	18.65	75	1791	0.065 ng	#	43
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	19.28	91	3615509	36.317 ng		100
59) 2-Hexanone	19.58	43	44872	1.048 ng		81
60) Dibromochloromethane	19.81	129	244	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	188765	3.966 ng		94
63) n-Octane	20.56	57	49305	2.535 ng		96
64) Tetrachloroethene	20.75	166	58422	2.219 ng		100
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	22.09	91	558101	5.155 ng		99
67) m- & p-Xylenes	22.30	91	1230701	13.786 ng		100
68) Bromoform	22.43	173	1253	0.063 ng	#	57
69) Styrene	22.77	104	260587	3.958 ng		99
70) o-Xylene	22.92	91	444270	4.996 ng		99
71) n-Nonane	23.17	43	128666	2.963 ng		94
72) 1,1,2,2-Tetrachloroethane	22.92	83	3653	0.099 ng	#	1
74) Cumene	23.65	105	28509	0.241 ng		99
75) alpha-Pinene	24.15	93	7543167	133.644 ng	See Dil	100
76) n-Propylbenzene	24.28	91	117527	0.826 ng	#	88
77) 3-Ethyltoluene	24.40	105	285449	2.550 ng		98
78) 4-Ethyltoluene	24.46	105	148259	1.320 ng		98
79) 1,3,5-Trimethylbenzene	24.55	105	115354	1.235 ng		99

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

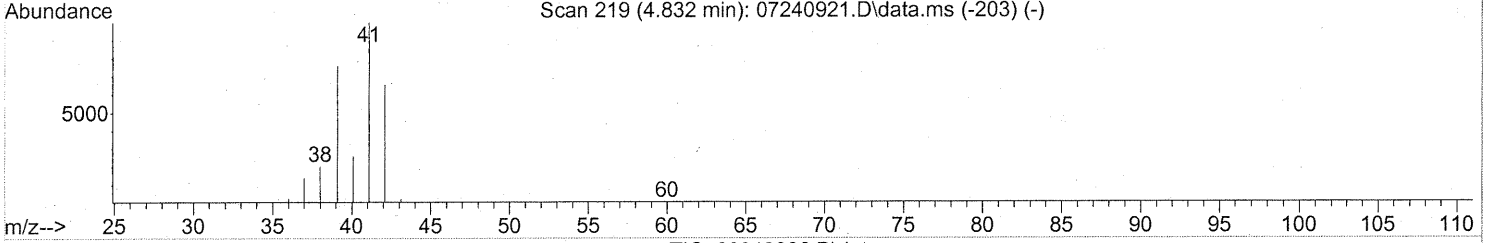
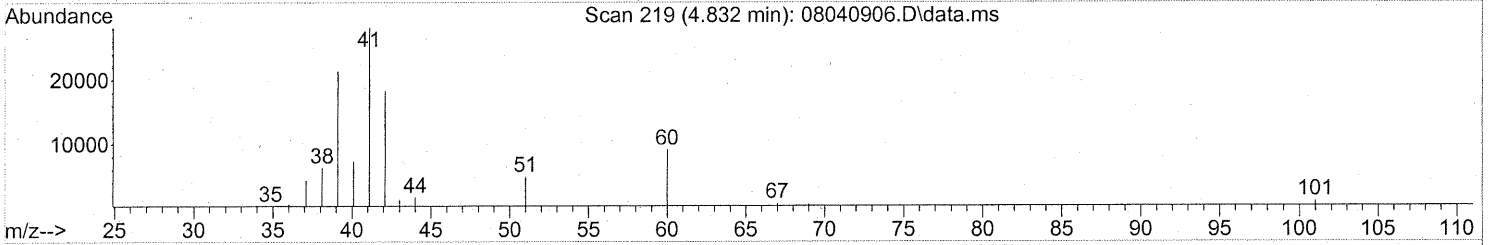
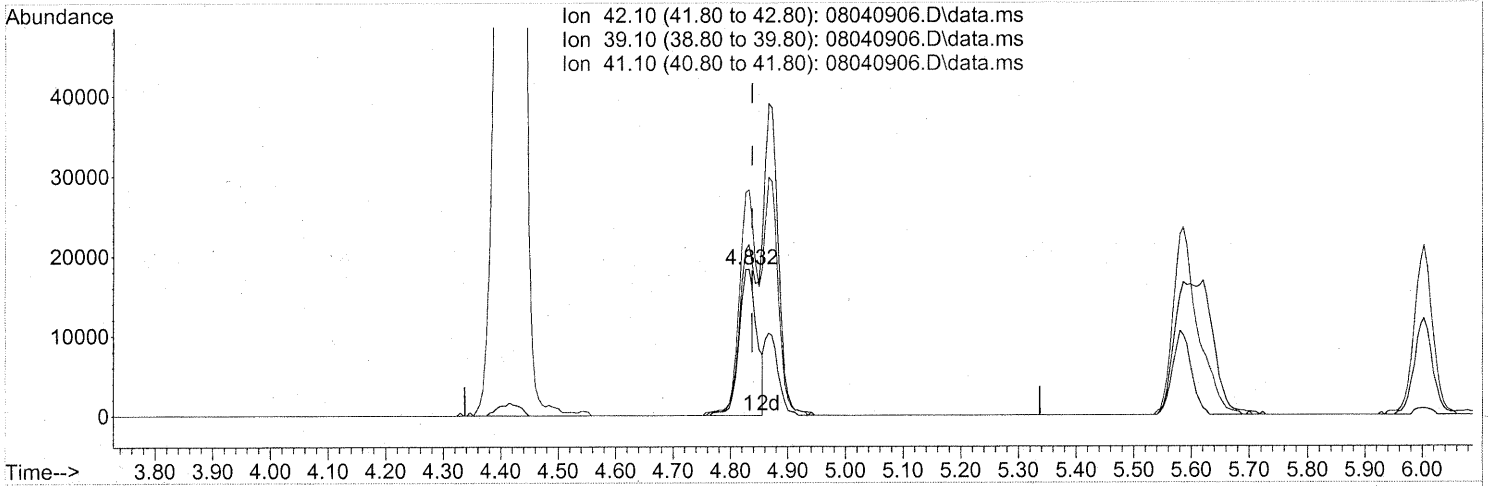
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	4775	0.091	ng #	29
81) 2-Ethyltoluene	24.79	105	124138	1.059	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	513279	4.913	ng	90
83) n-Decane	25.15	57	200278	3.968	ng	98
84) Benzyl Chloride	25.23	91	2580	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.32	146	25733	0.450	ng	100
87) sec-Butylbenzene	25.38	105	17118	0.131	ng #	49
88) 4-Isopropyltoluene (p-...	25.56	119	353514	2.685	ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	155964	1.466	ng	87
90) 1,2-Dichlorobenzene	25.74	146	918	N.D.		
91) d-Limonene	25.74	68	673509	16.227	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.66	157	1125	0.070	ng #	1
93) n-Undecane	26.65	57	363109	7.027	ng	77
94) 1,2,4-Trichlorobenzene	27.80	180	2001	0.054	ng #	88
95) Naphthalene	27.94	128	384704	3.001	ng	99
96) n-Dodecane	27.89	57	81899	1.483	ng	94
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	128593	4.282	ng	96
99) tert-Butylbenzene	25.05	119	61959	0.587	ng #	54
100) n-Butylbenzene	26.06	91	58901	0.566	ng #	38

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
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Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



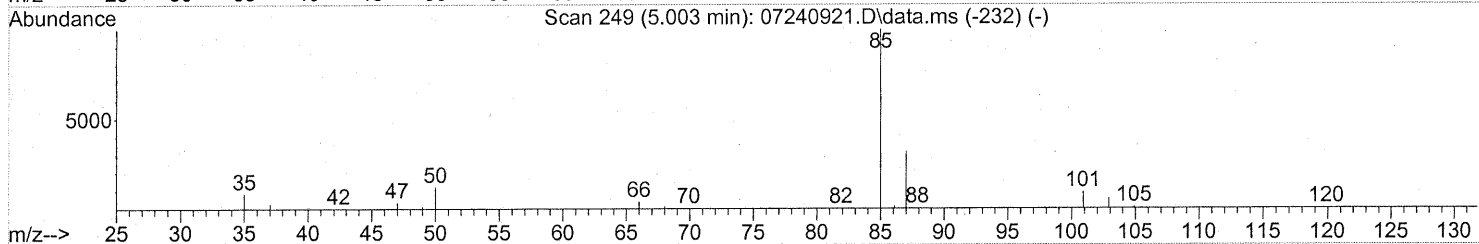
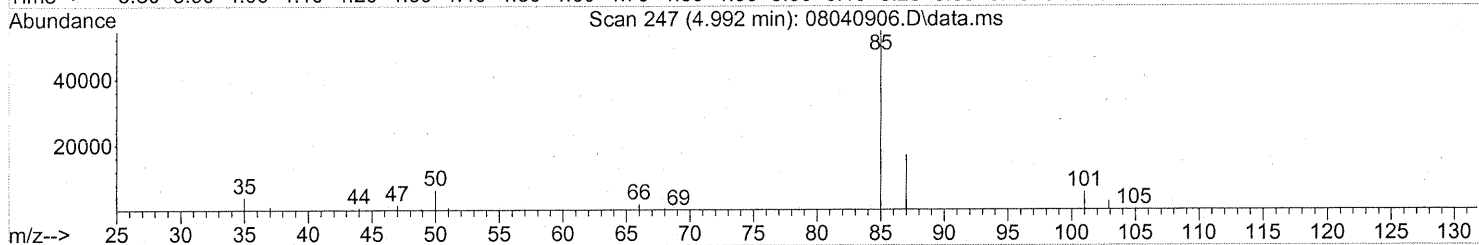
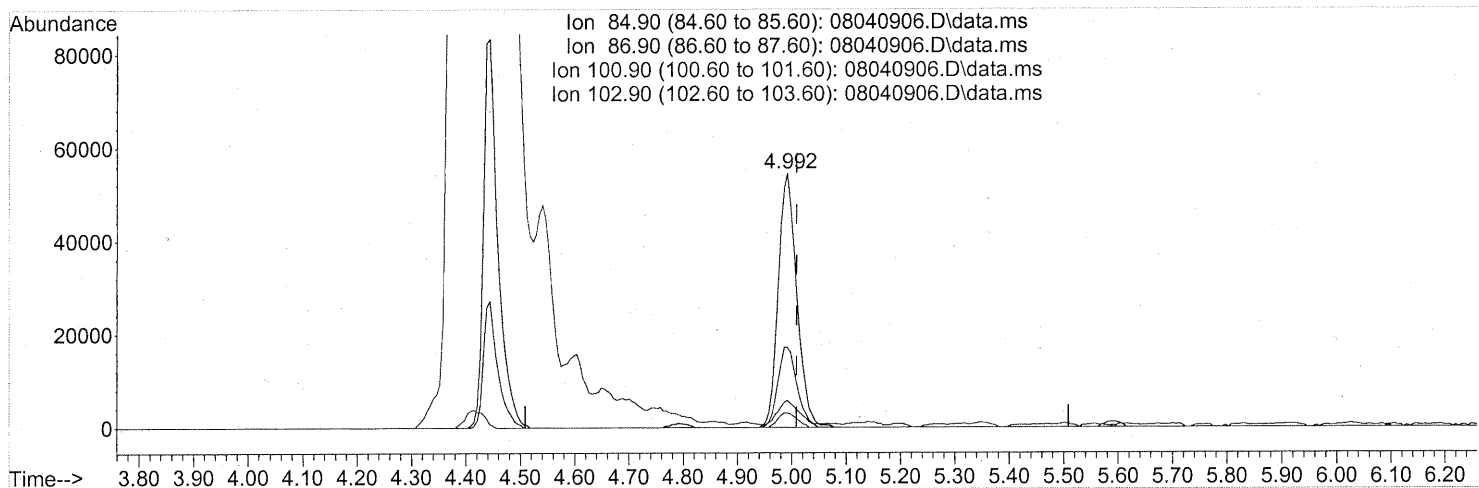
(2) Propene (T)
 4.832min (-0.006) 1.90ng
 response. 38878

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	103.45
41.10	152.70	148.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
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 Quant Method : J:\MS09\Methods\R9072409.M
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 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.992min (-0.017) 3.15ng

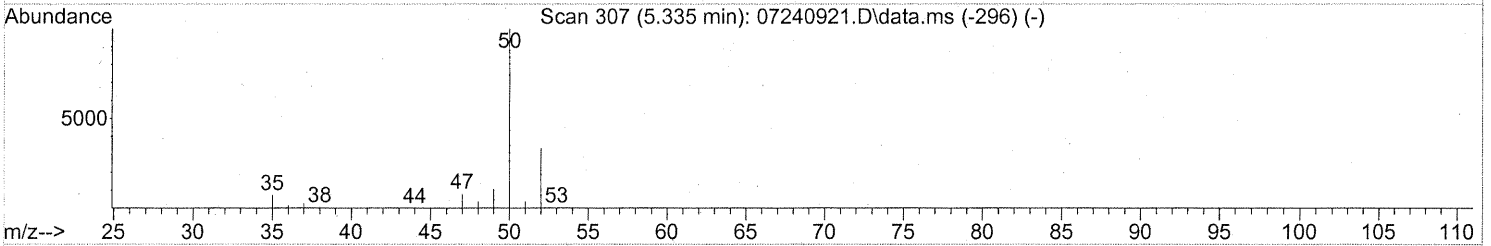
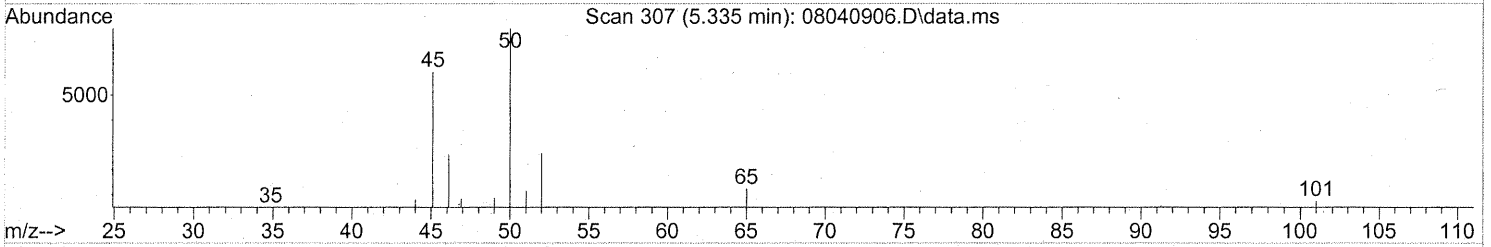
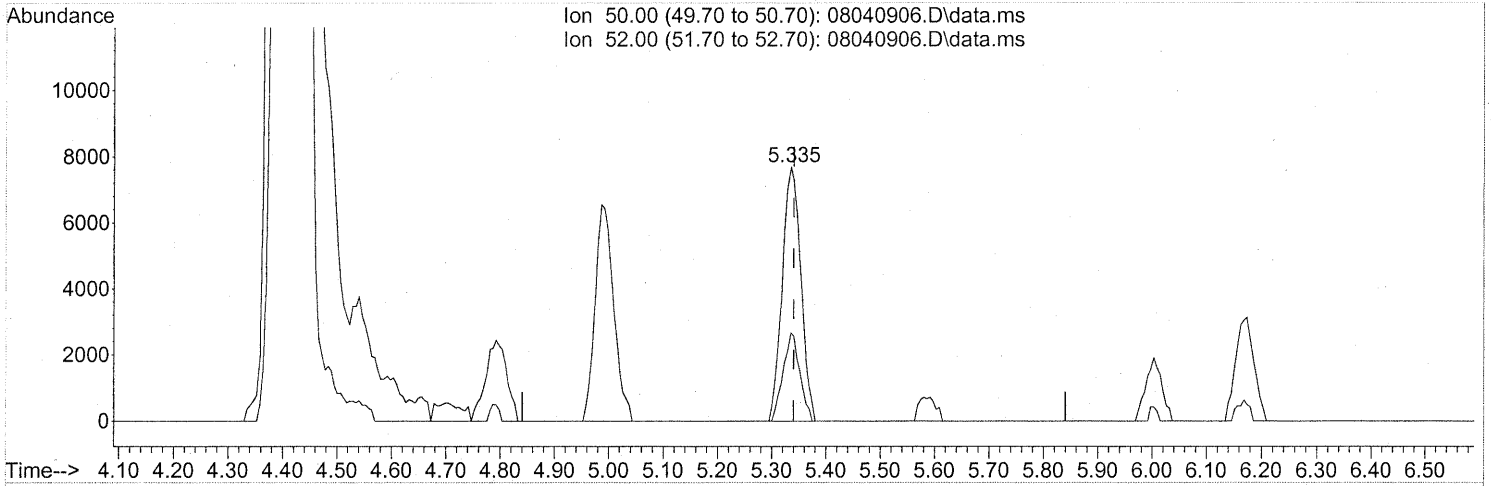
response 128721

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.38
100.90	9.10	10.77
102.90	5.50	5.65

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(4) Chloromethane (T)

5.335min (-0.006) 0.59ng

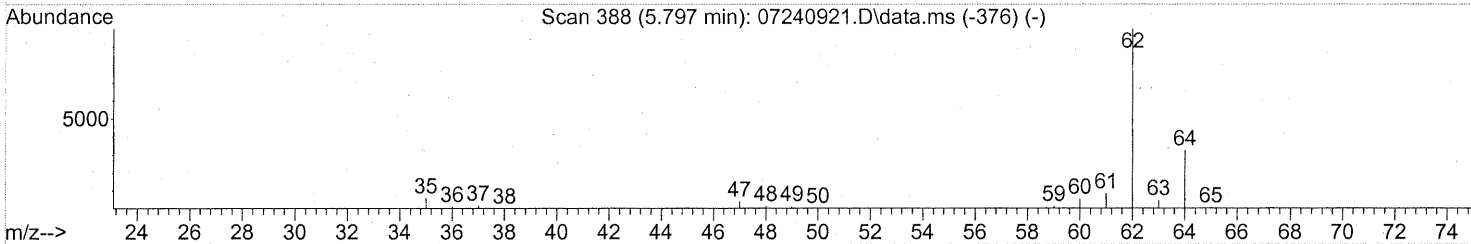
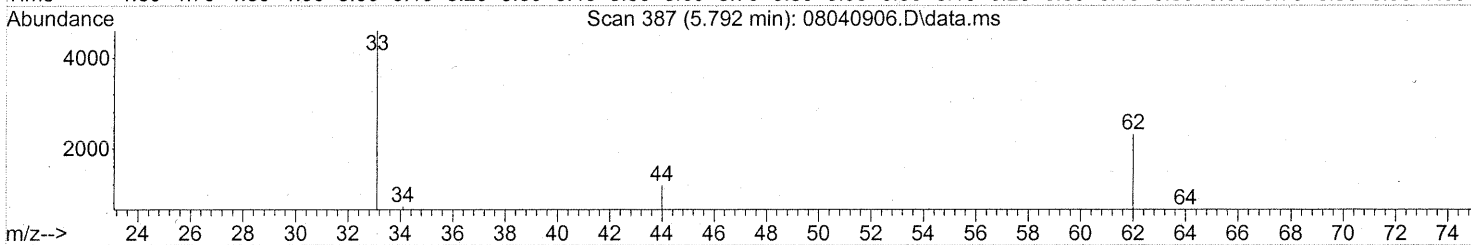
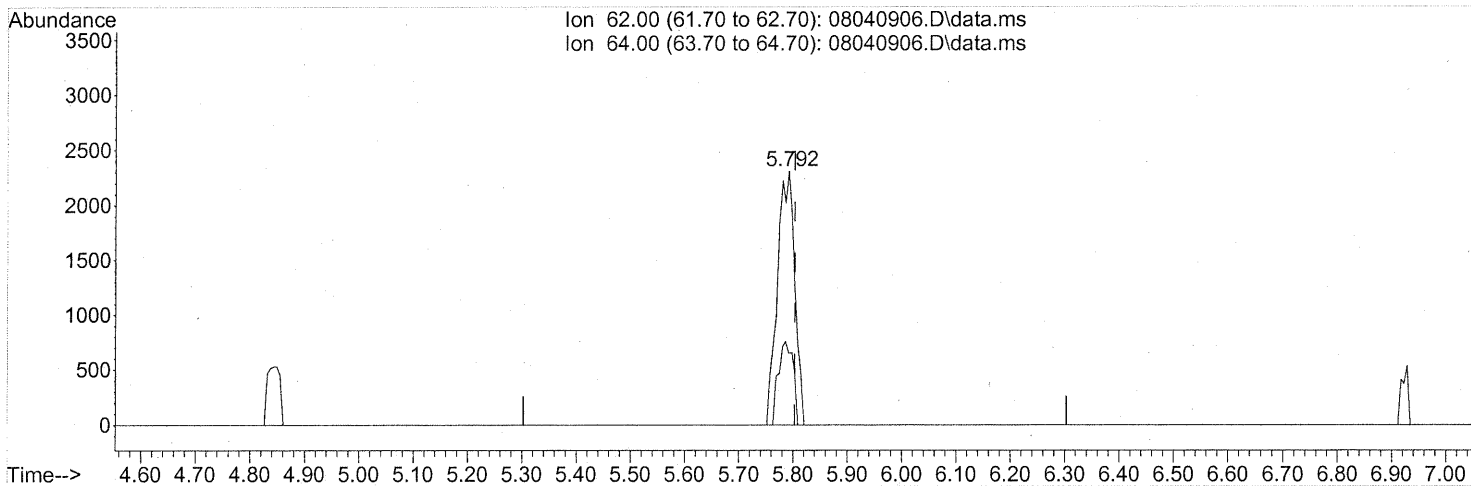
response 18176

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
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 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(6) Vinyl Chloride (T)

5.792min (-0.011) 0.16ng

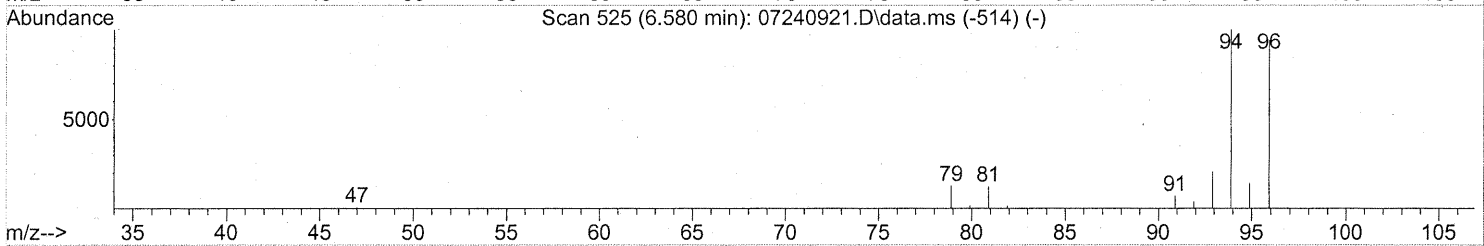
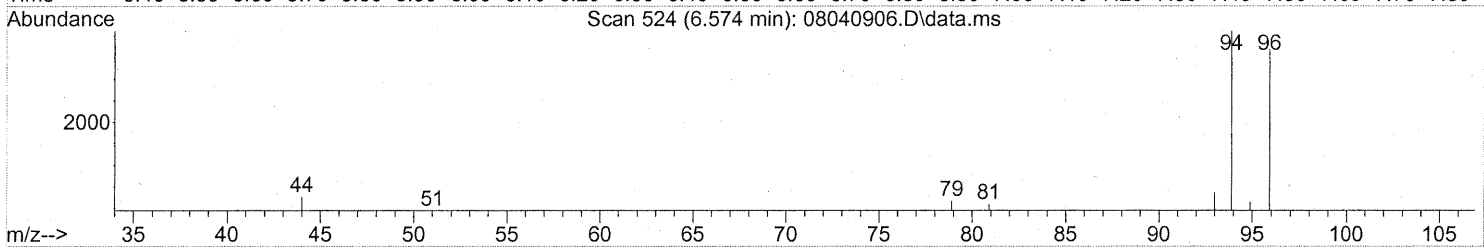
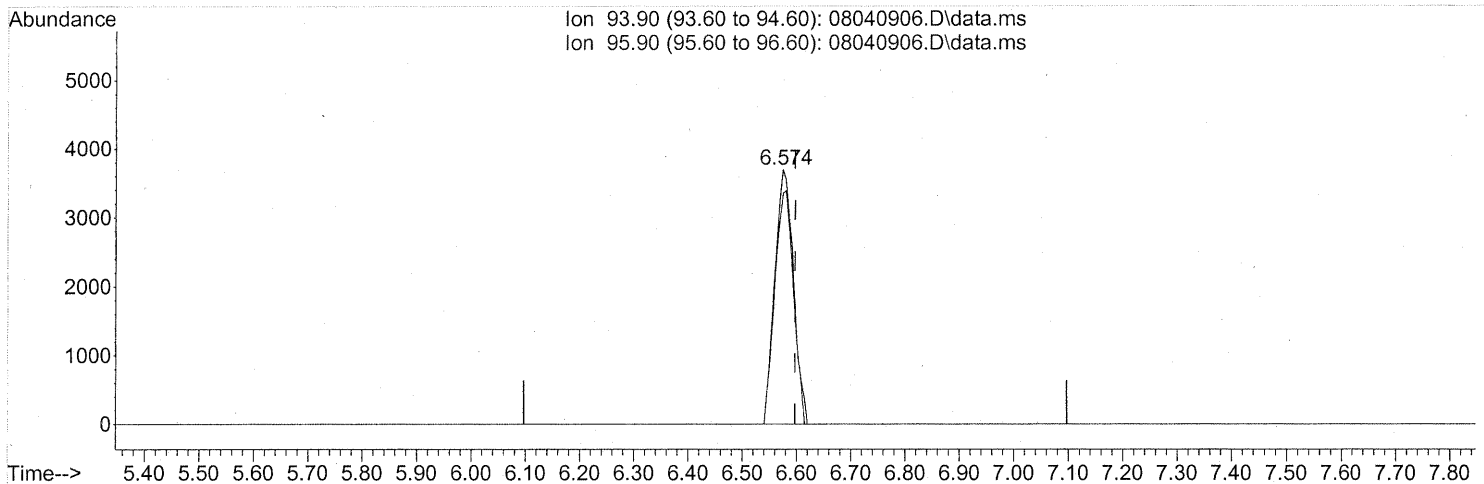
response 5096

Ion	Exp%	Act%
62.00	100	100
64.00	32.40	27.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(8) Bromomethane (T)

6.574min (-0.023) 0.46ng

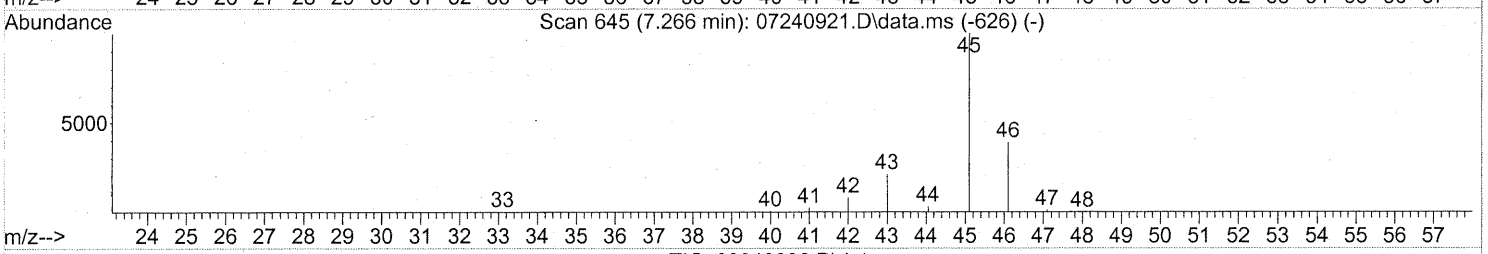
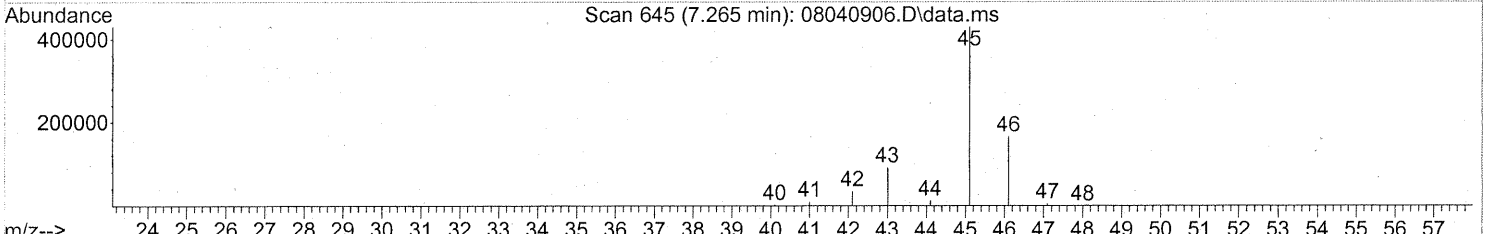
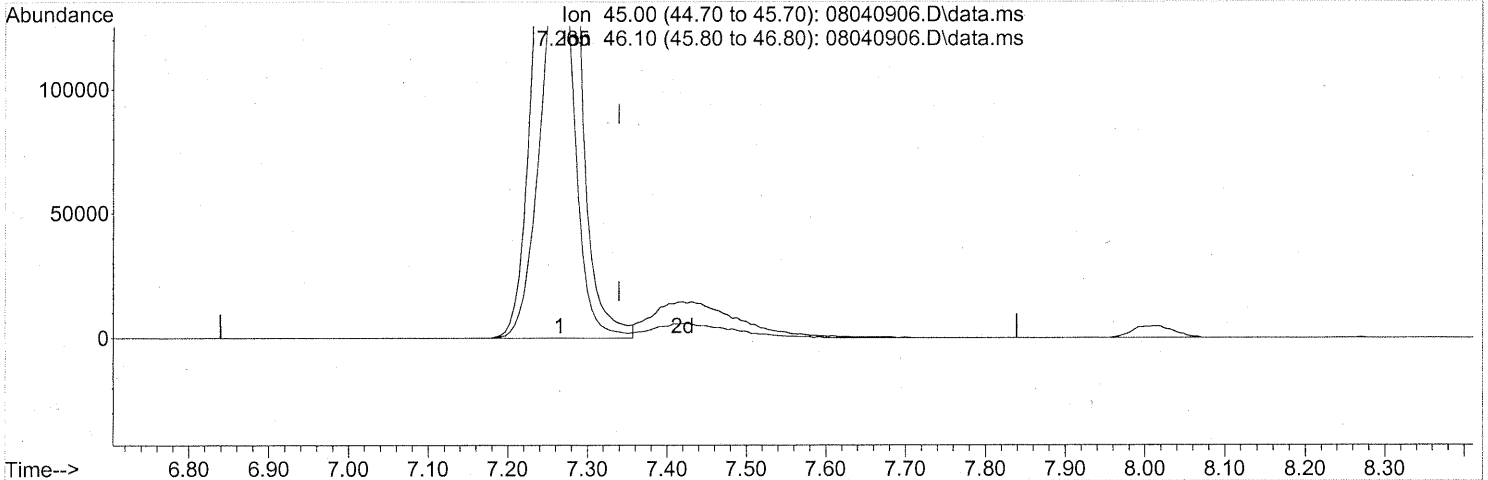
response 8821

Ion	Exp%	Act%
93.90	100	100
95.90	94.20	91.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 11:58:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.265min (-0.074) 90.19ng

response 1224813

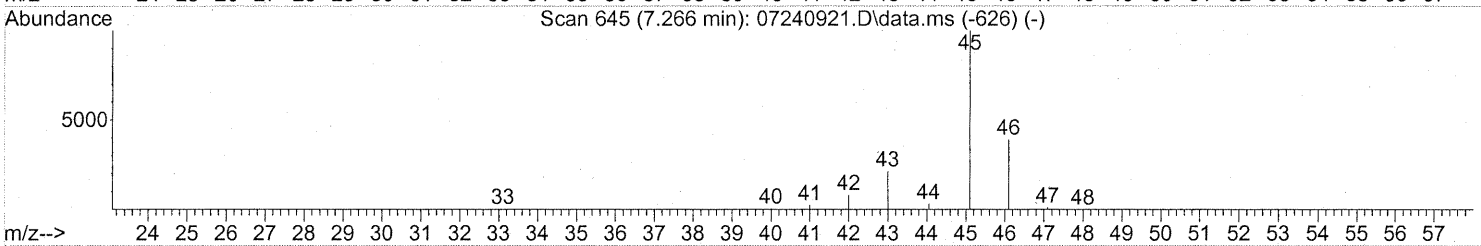
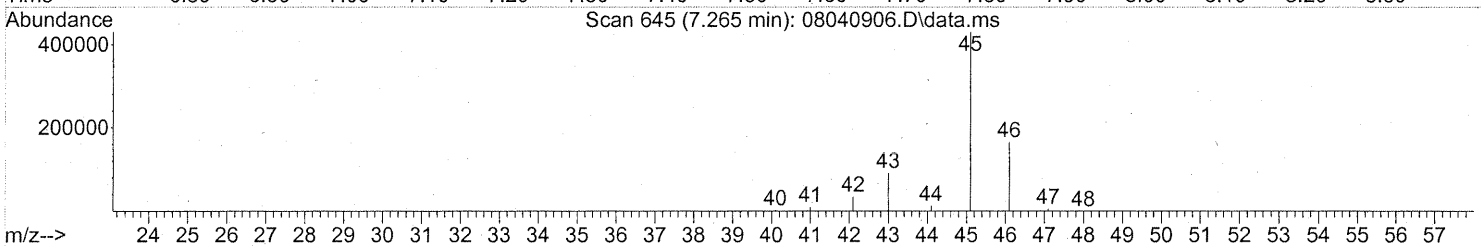
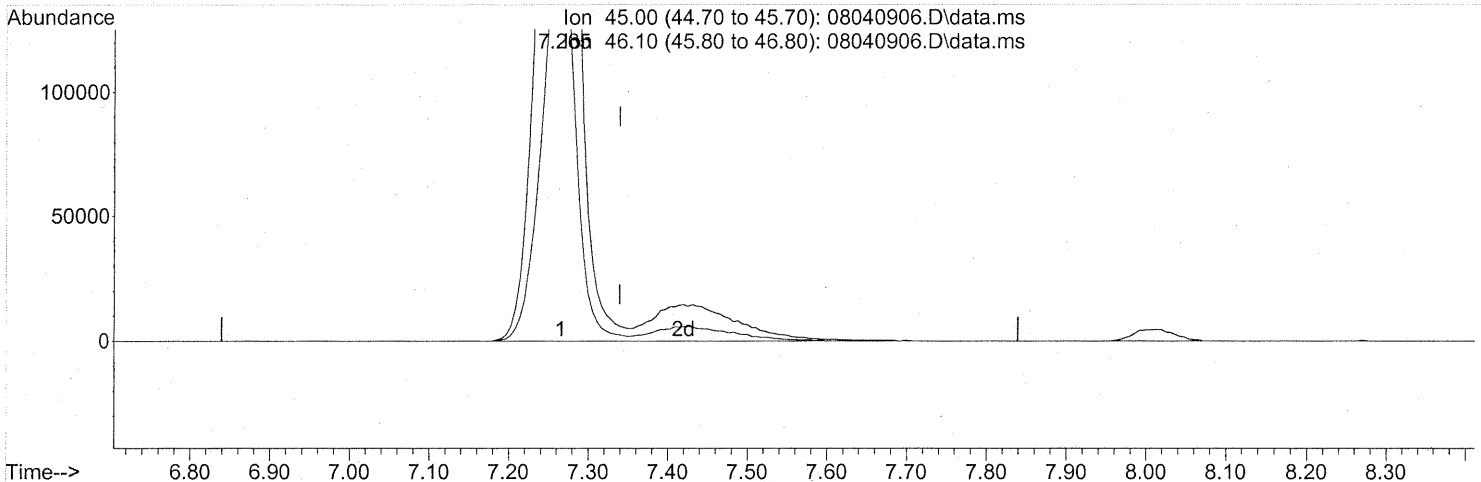
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.78
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 11:58:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(10) Ethanol (T)

7.265min (-0.074) 98.28ng m

response 1334652

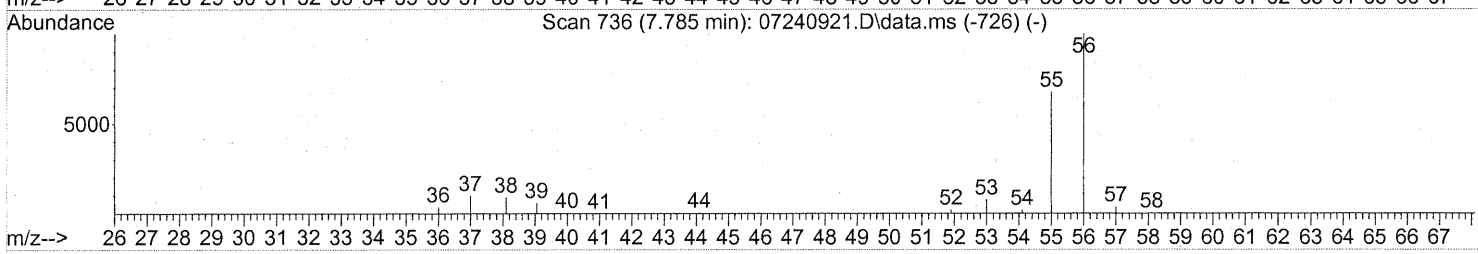
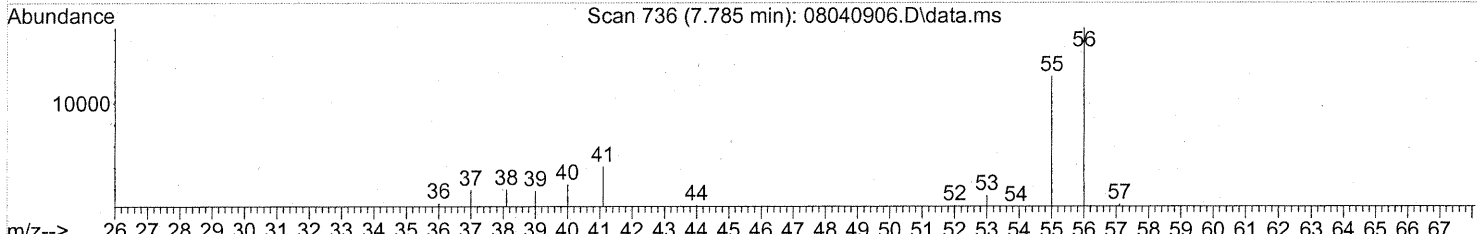
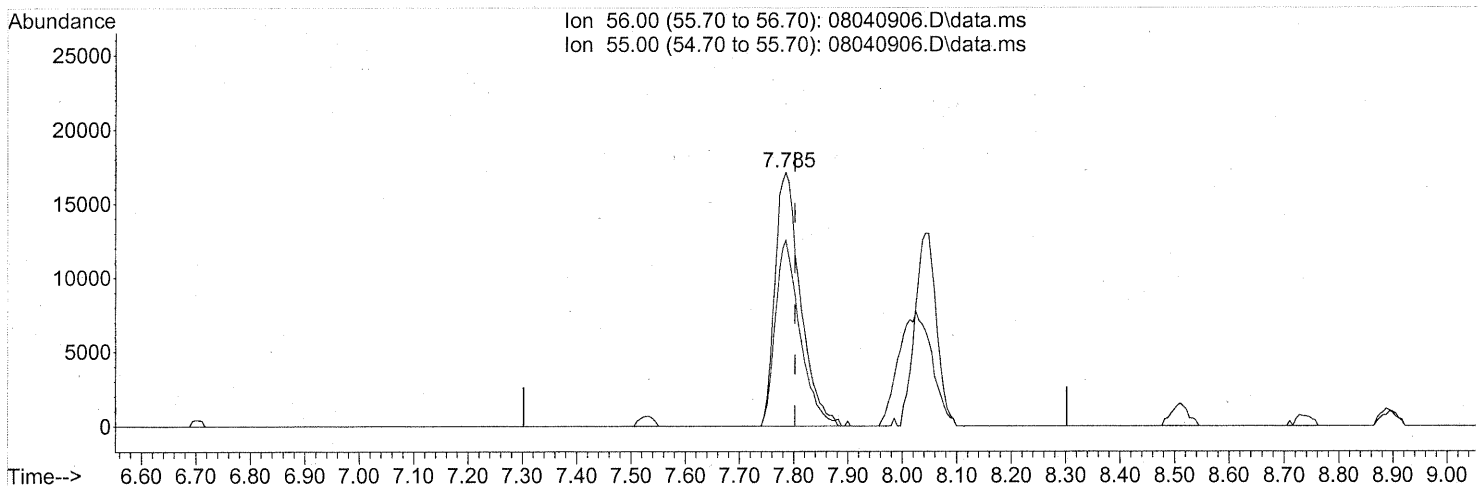
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	35.59
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
com 8/6/09
WJ 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(12) Acrolein (T)

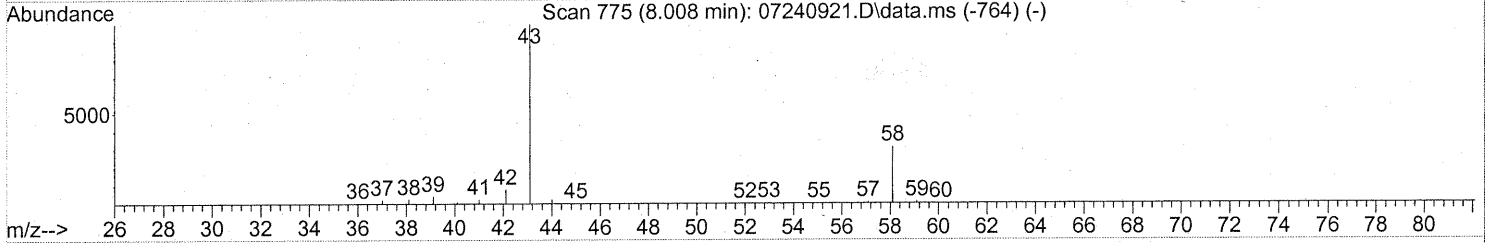
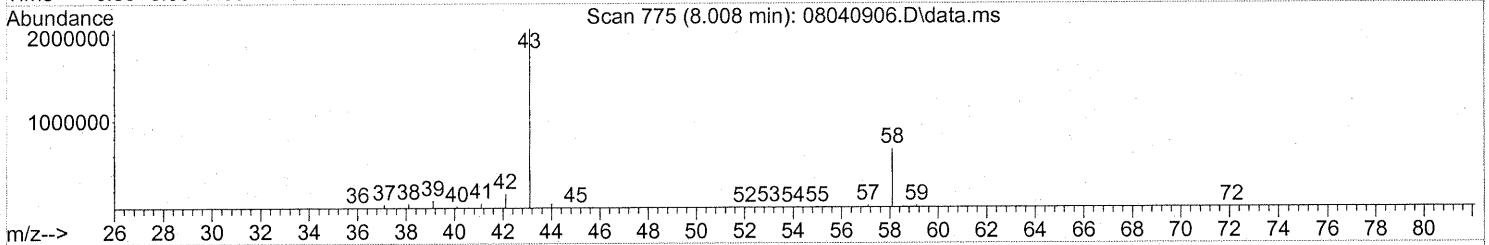
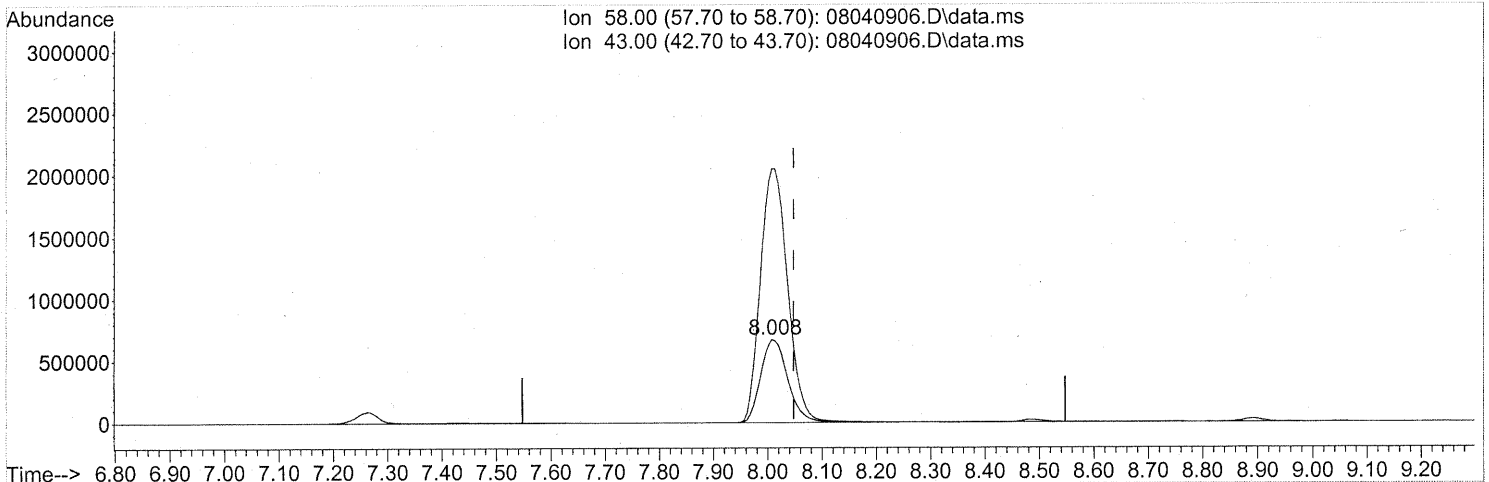
7.785min (-0.017) 5.63ng
 response 55757

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	70.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
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Quant Time: Aug 06 11:36:35 2009
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TIC: 08040906.D\data.ms

(13) Acetone (T)

8.008min (-0.040) 150.01ng

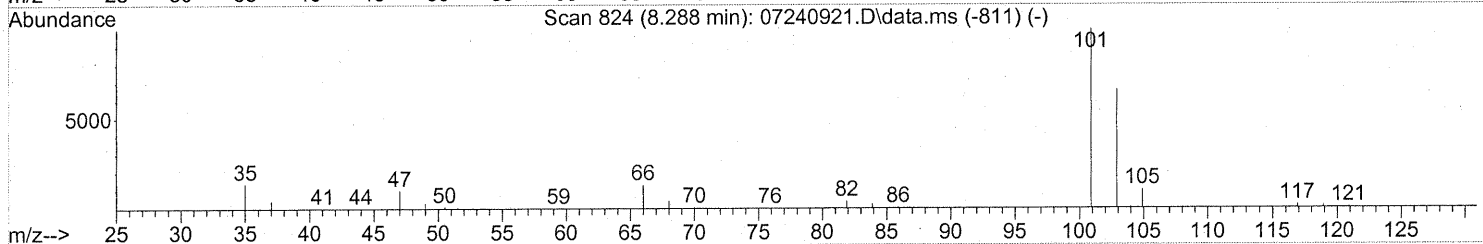
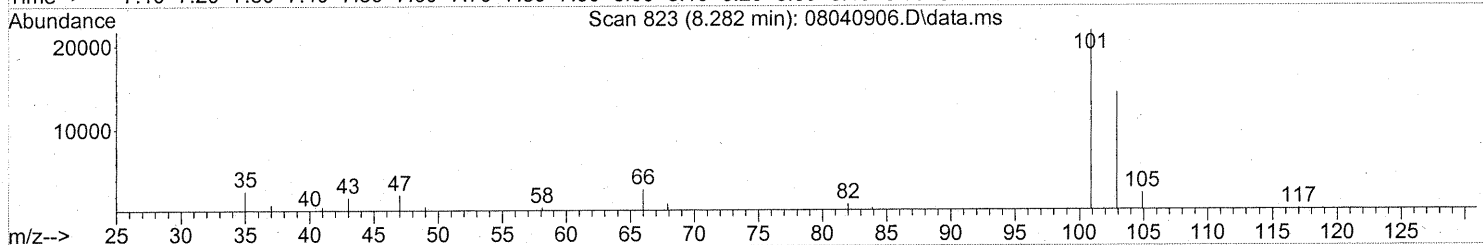
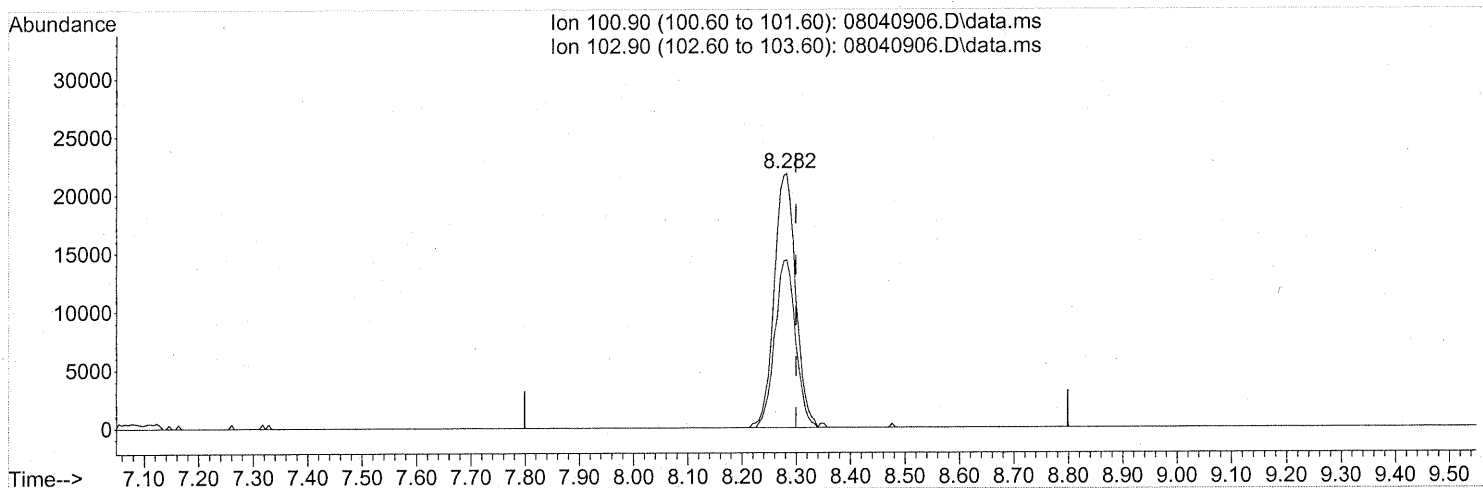
response 2317013

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	309.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
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 Quant Method : J:\MS09\Methods\R9072409.M
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 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.017) 1.68ng

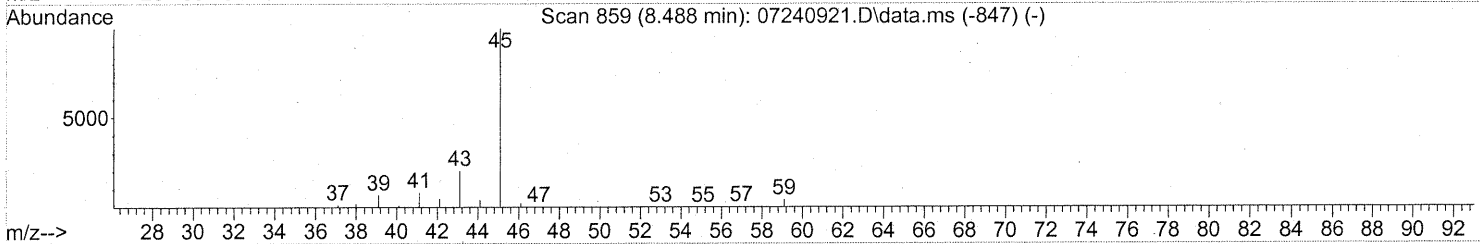
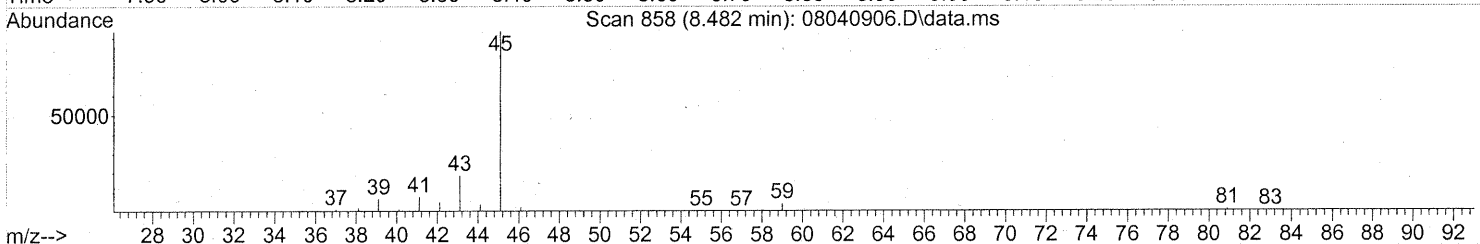
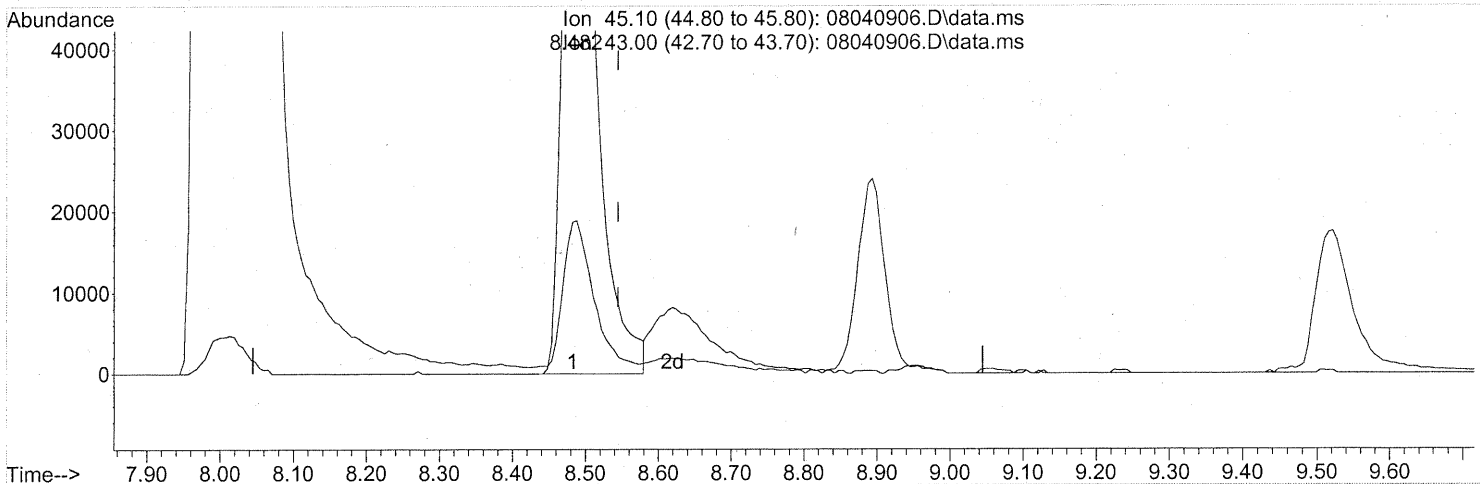
response 59911

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	63.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 11:58:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.482min (-0.063) 6.58ng

response 267256

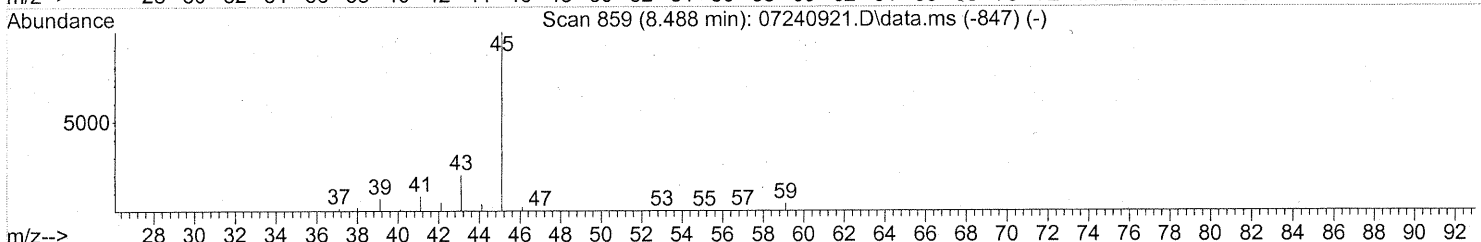
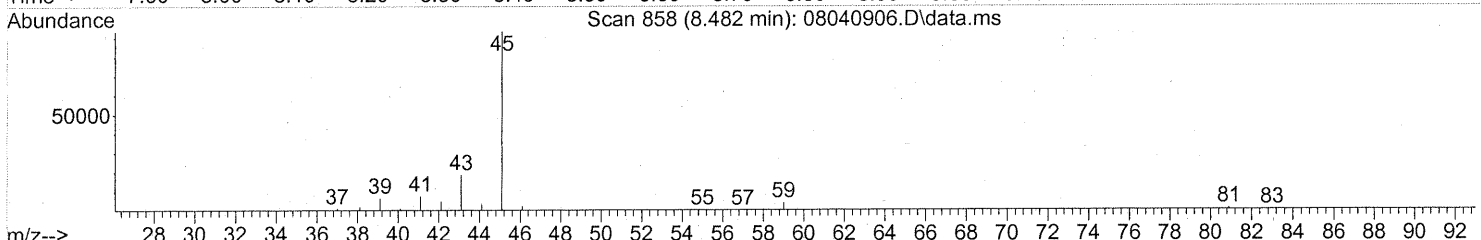
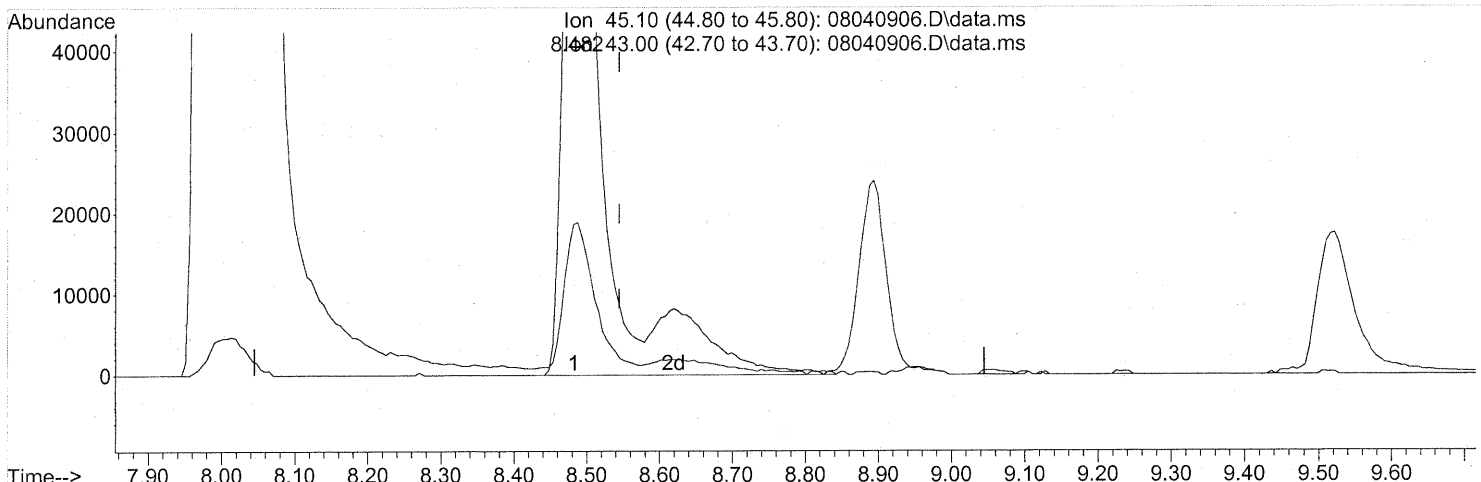
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.21
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
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 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 11:58:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
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 Response via : Initial Calibration



TIC: 08040906.D\data.ms

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

8.482min (-0.063) 7.76ng m

response 315188

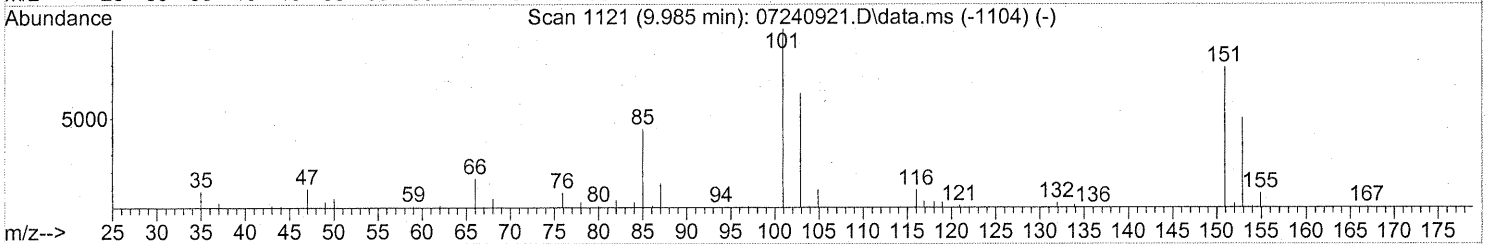
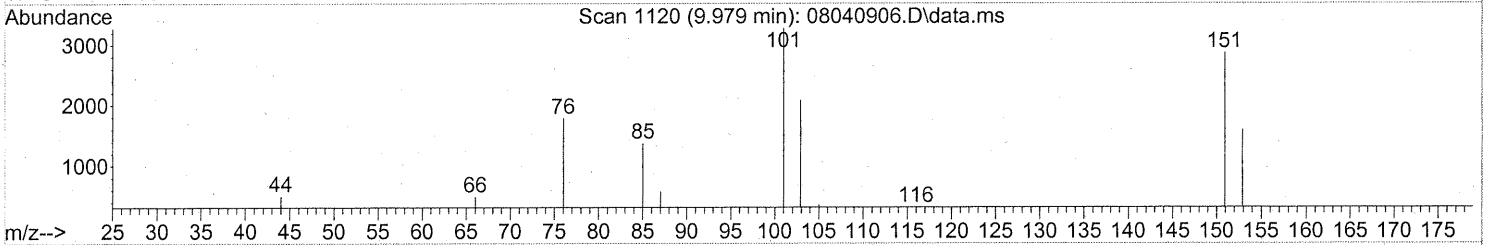
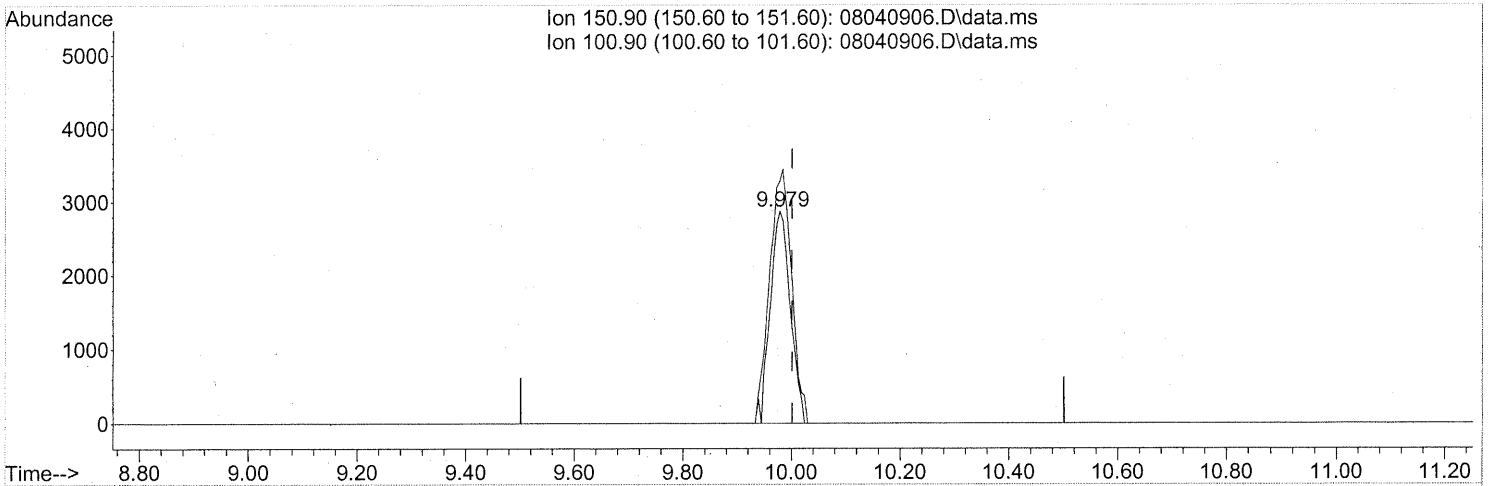
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.29
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/6/09
UM 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.979min (-0.023) 0.46ng

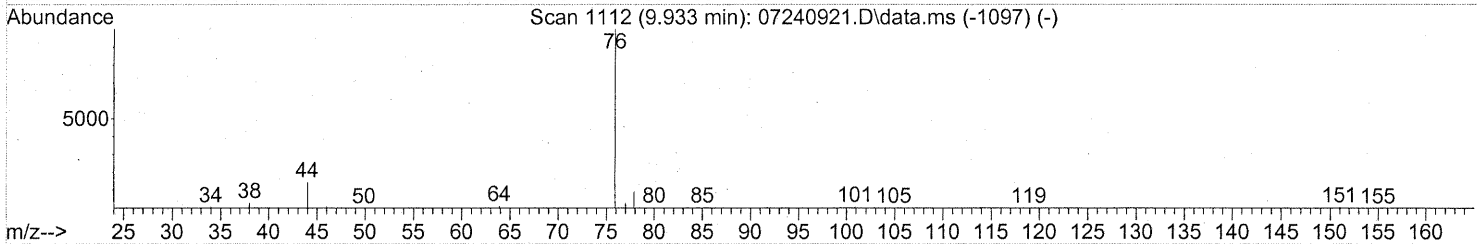
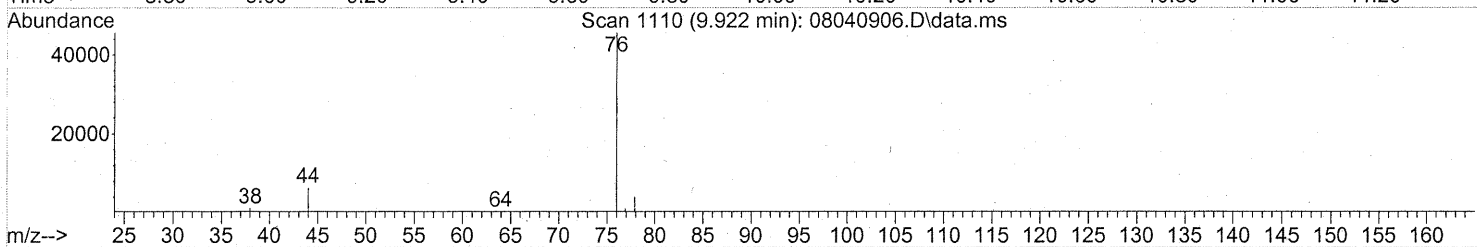
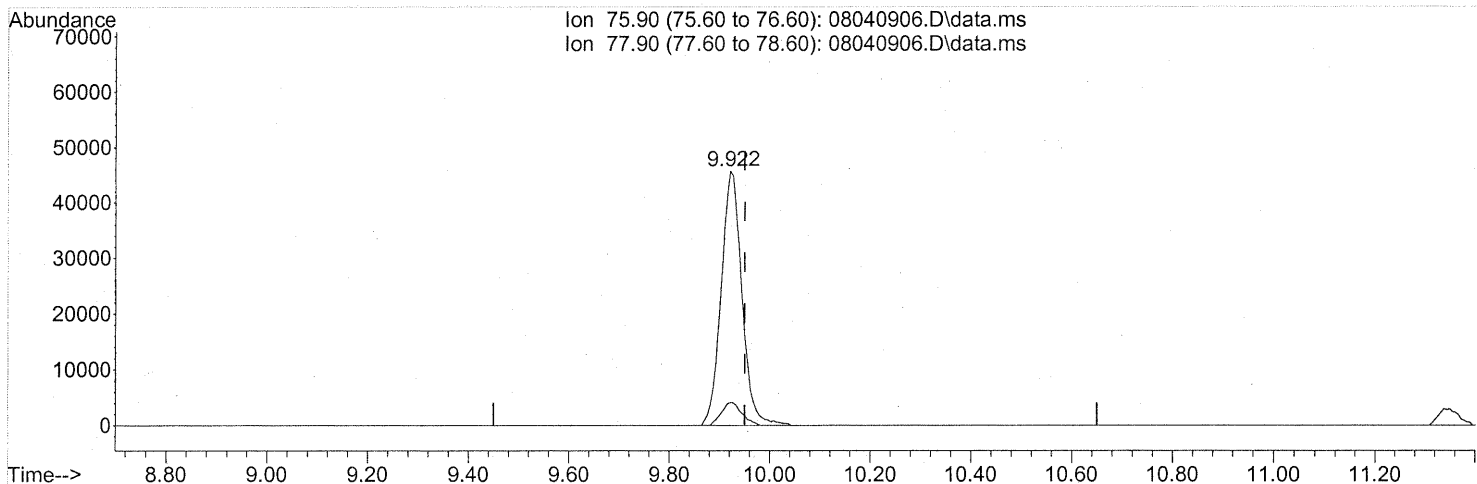
response 7347

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	132.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(22) Carbon Disulfide (T)

9.922min (-0.029) 1.87ng

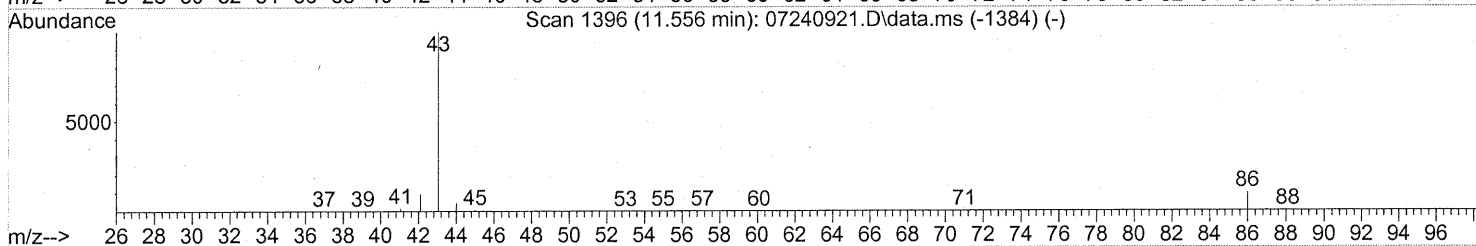
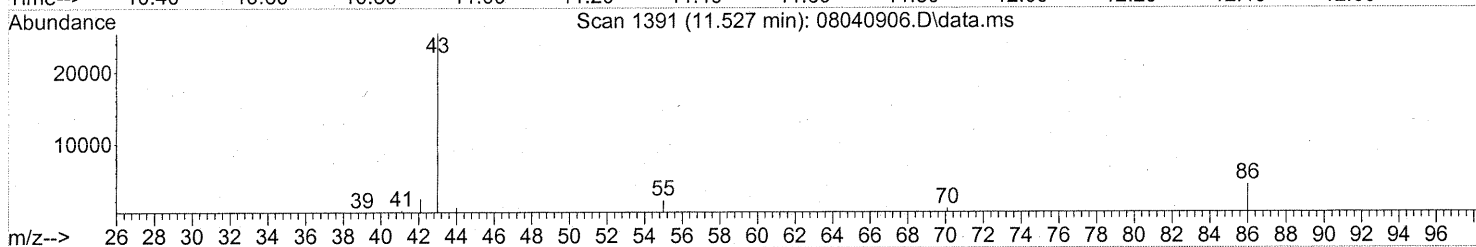
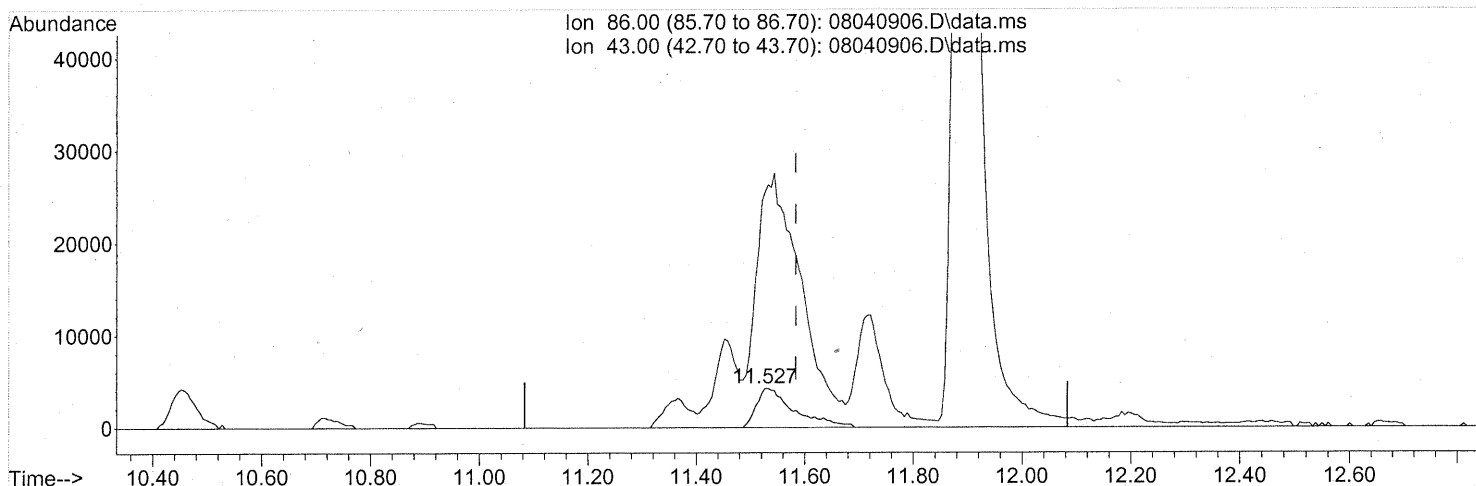
response 130349

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

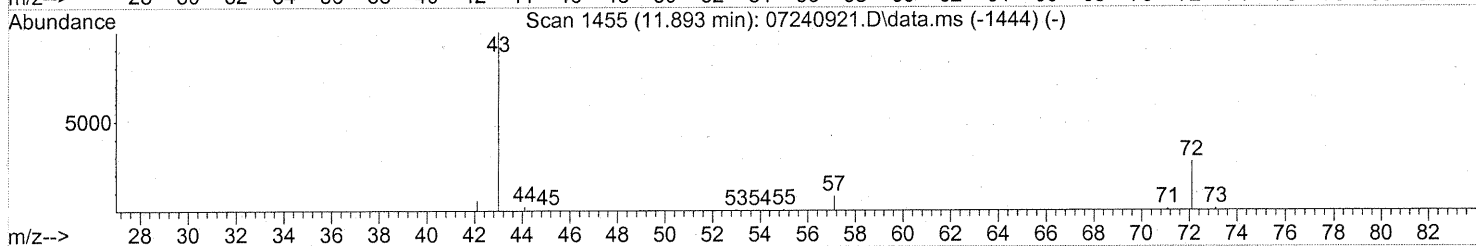
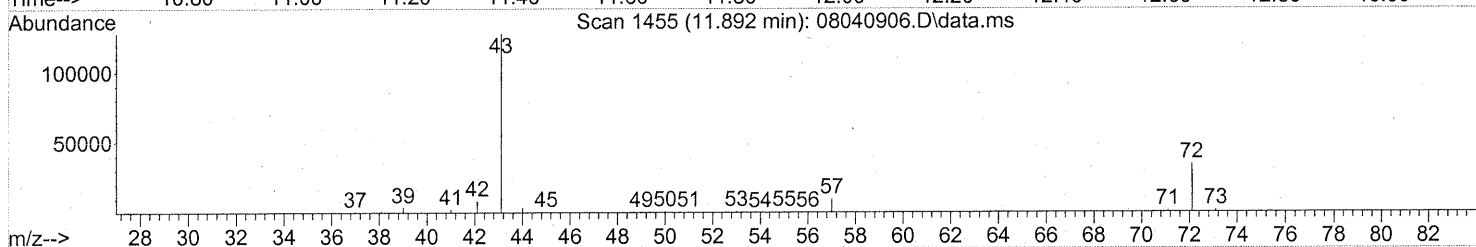
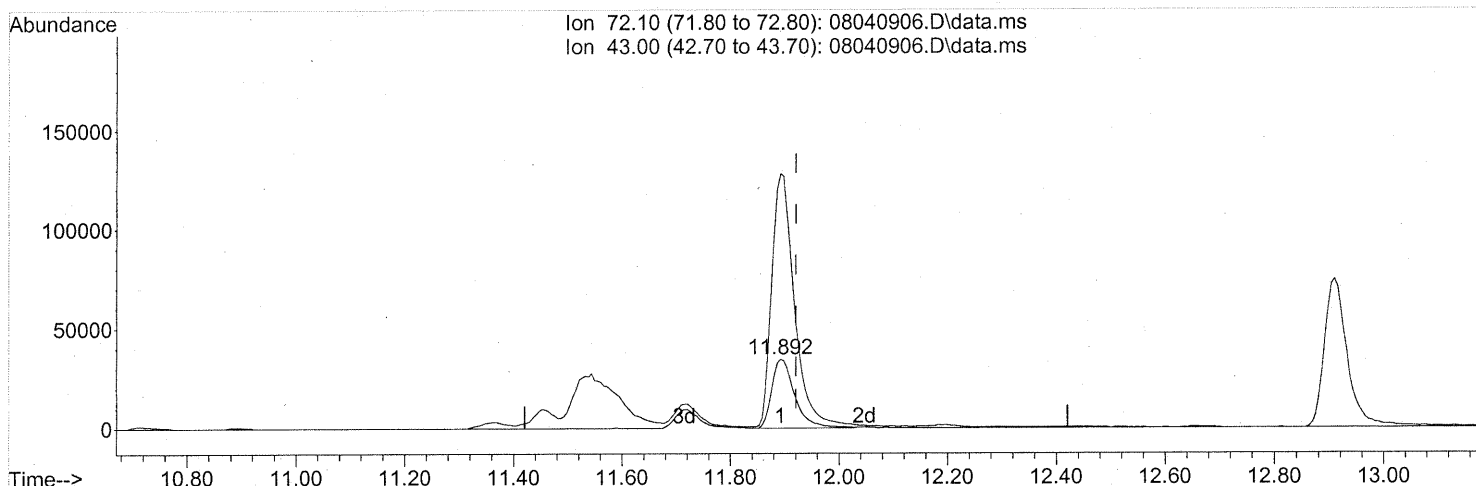
(26) Vinyl Acetate (T)
 11.527min (-0.057) 5.50ng
 response 20259

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	747.88#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

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

11.892min (-0.029) 8.50ng

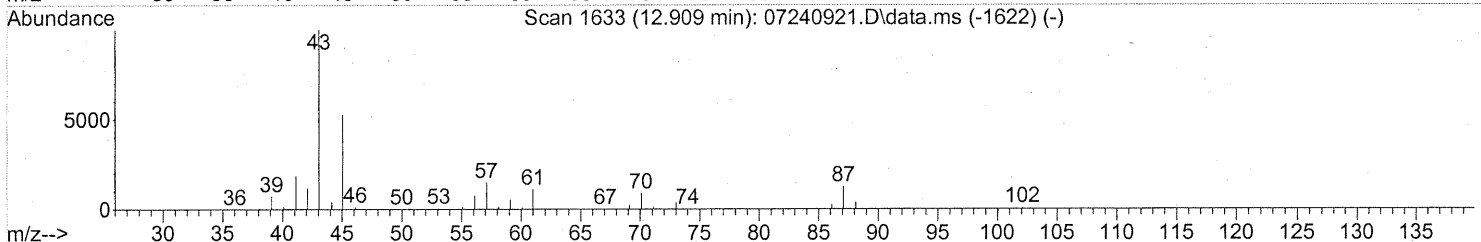
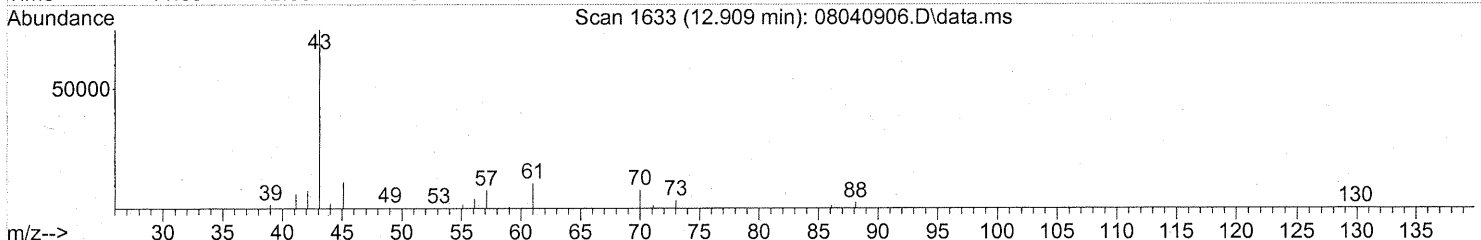
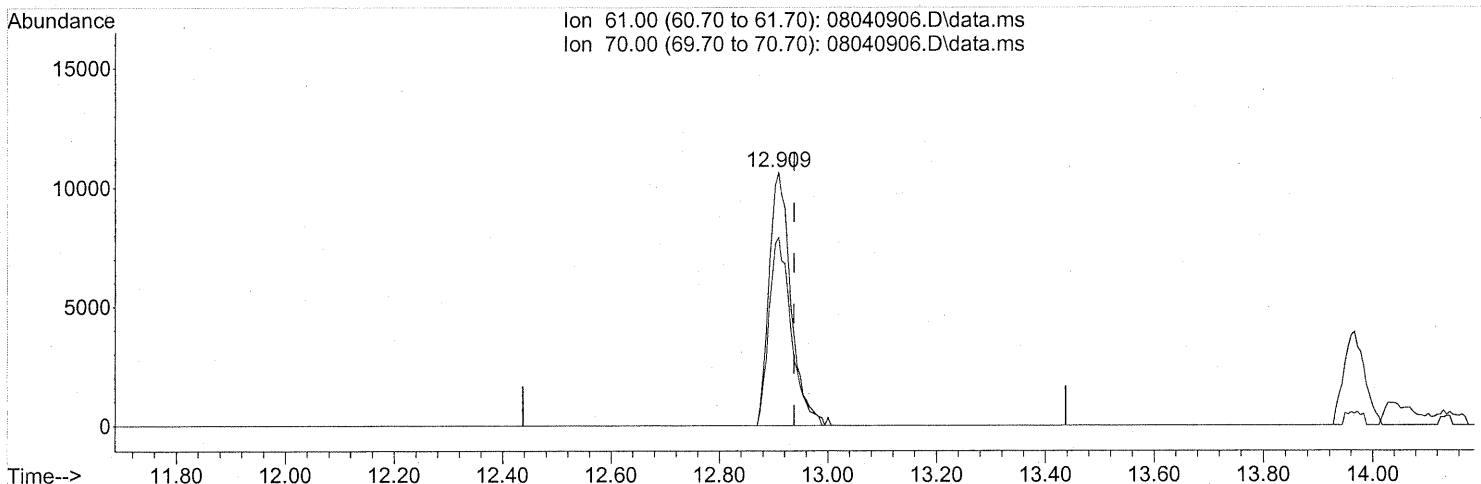
response 100124

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	367.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(30) Ethyl Acetate (T)

12.909min (-0.029) 3.87ng

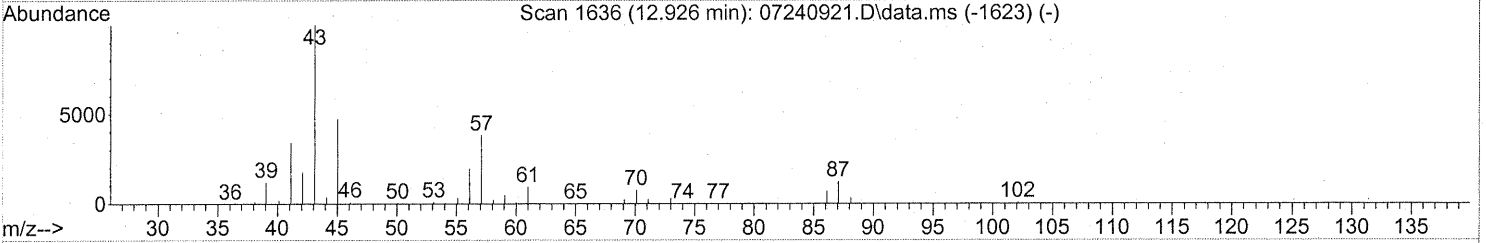
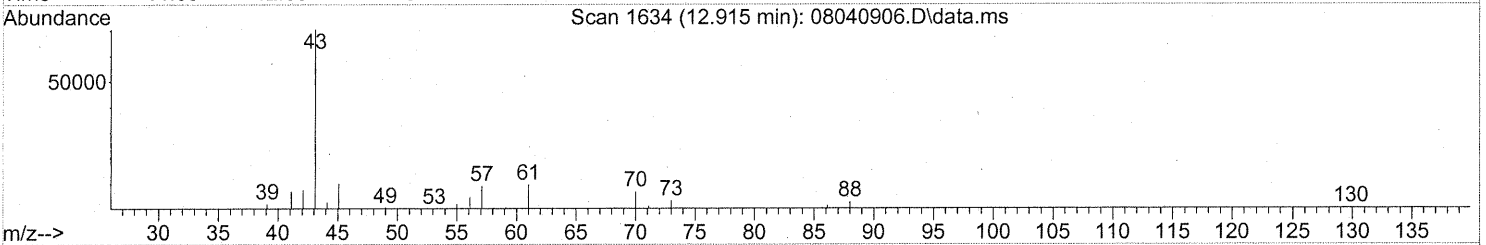
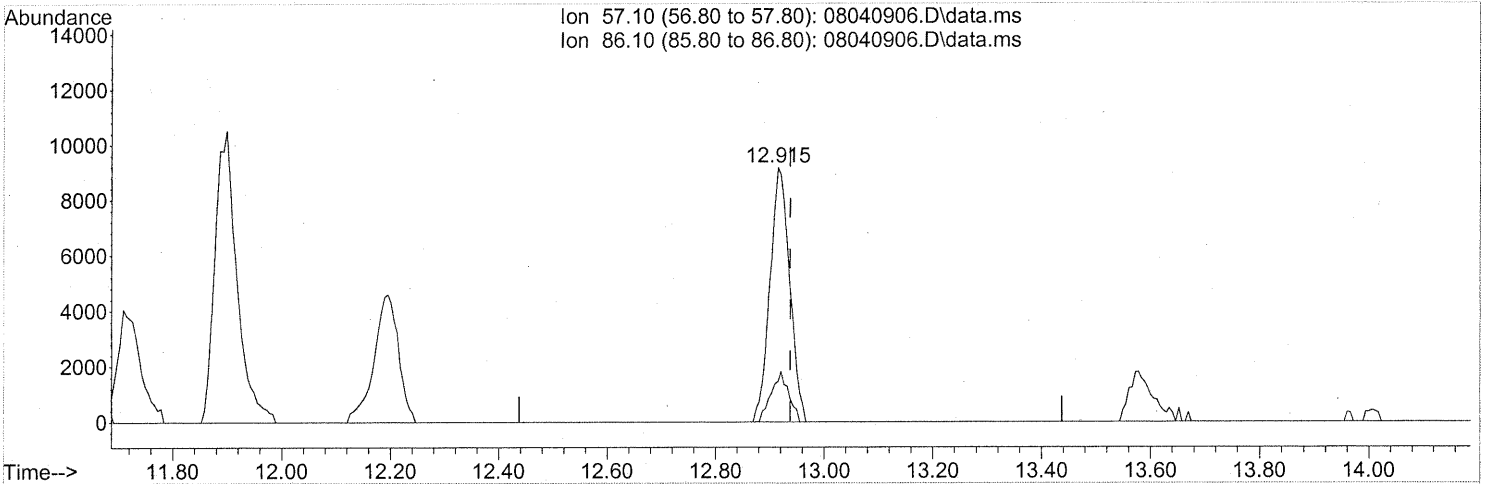
response 29881

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	75.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

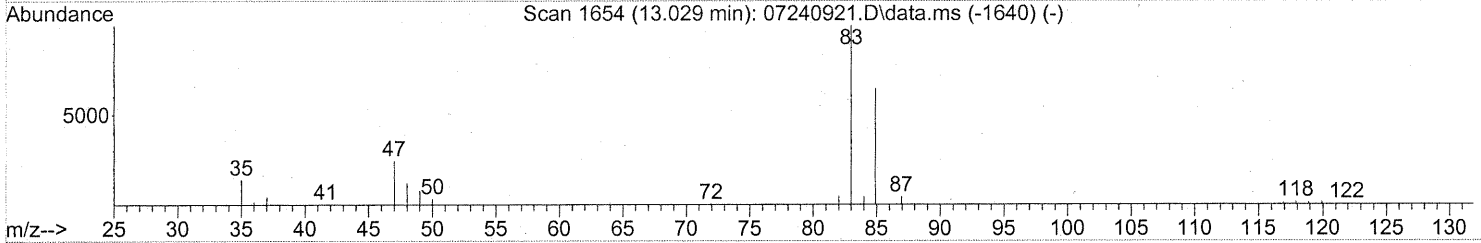
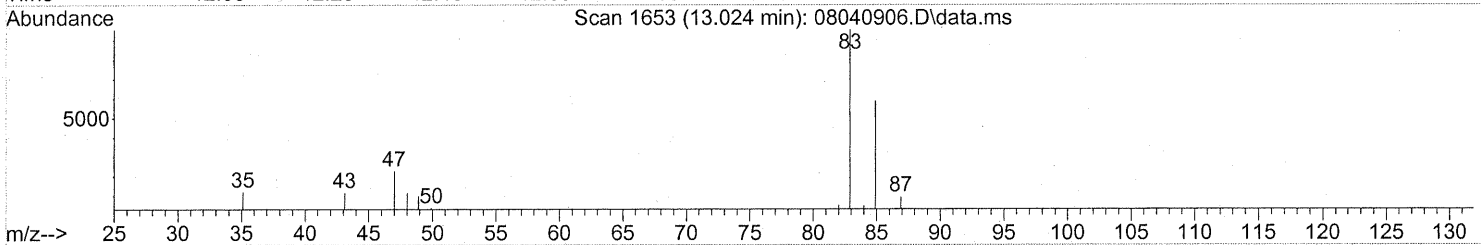
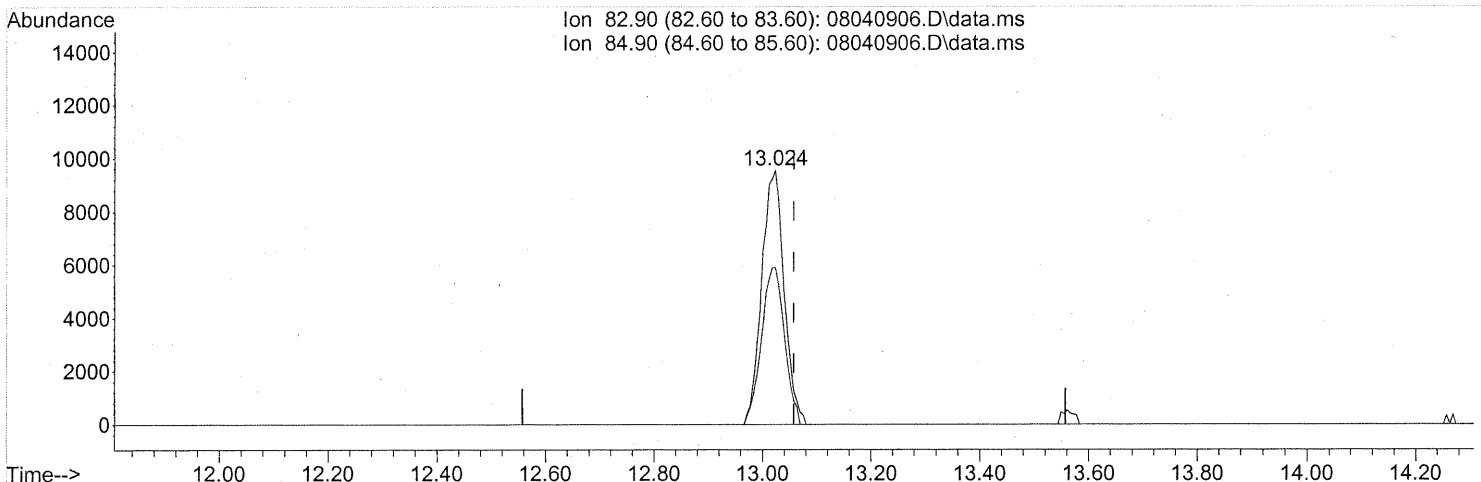
(31) n-Hexane (T)
 12.915min (-0.023) 0.65ng
 response 23147

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	17.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(32) Chloroform (T)

13.024min (-0.034) 0.85ng

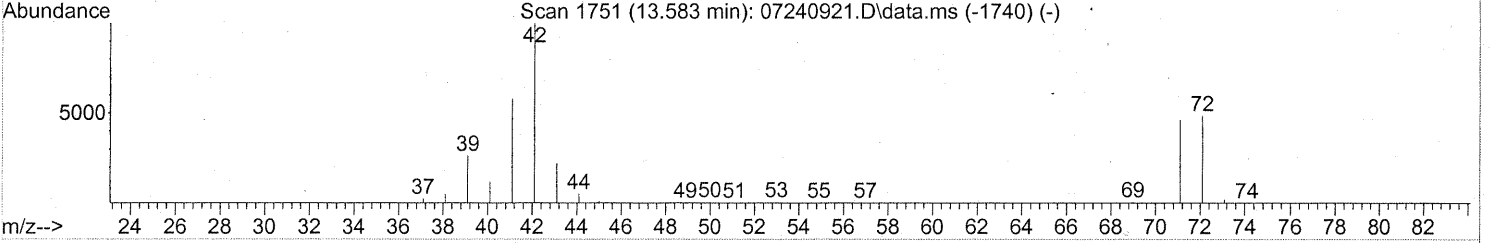
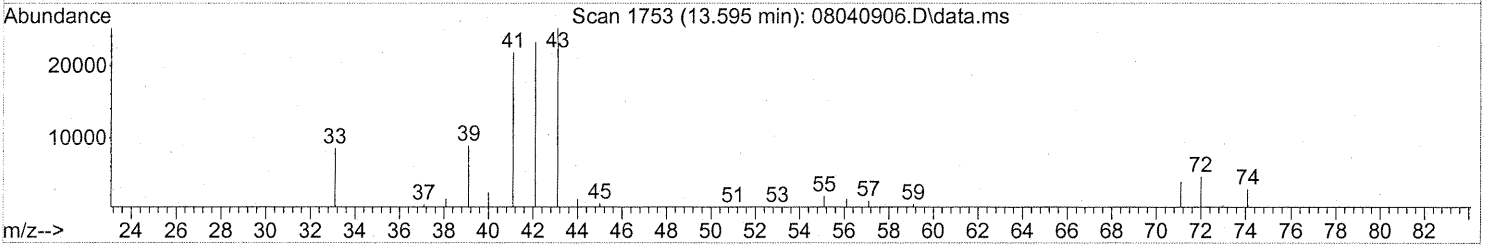
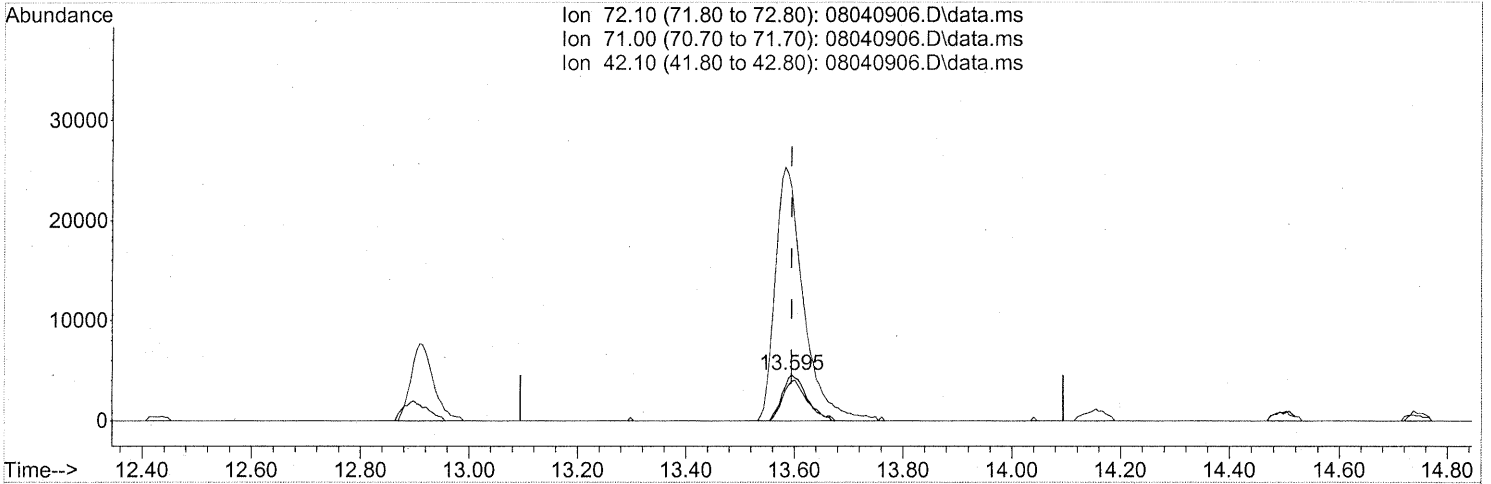
response 27419

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040906.D
Acq On : 4 Aug 2009 10:19
Operator : EM
Sample : P0902624-001 (1000ml)
Misc : Environmental H & E 99441
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040906.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.595min (-0.000) 1.30ng

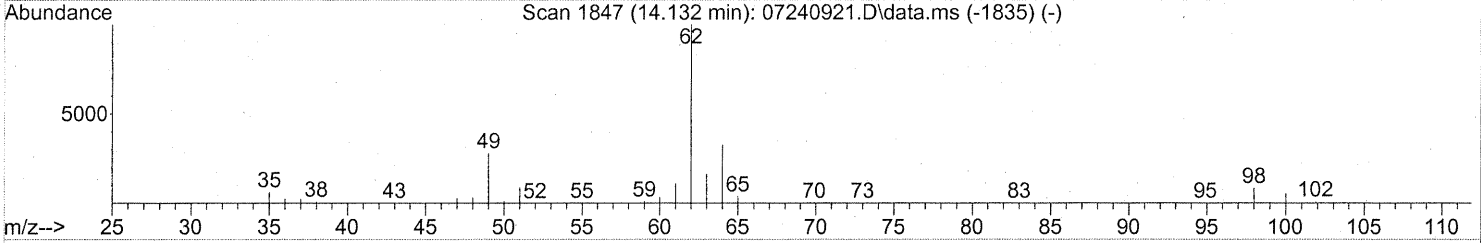
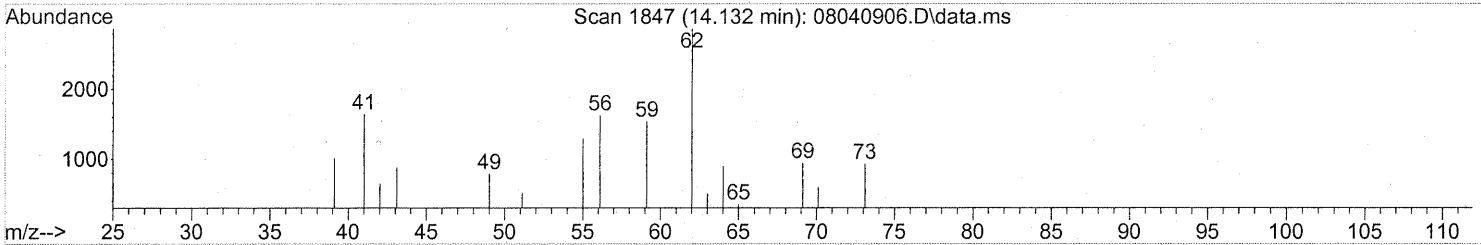
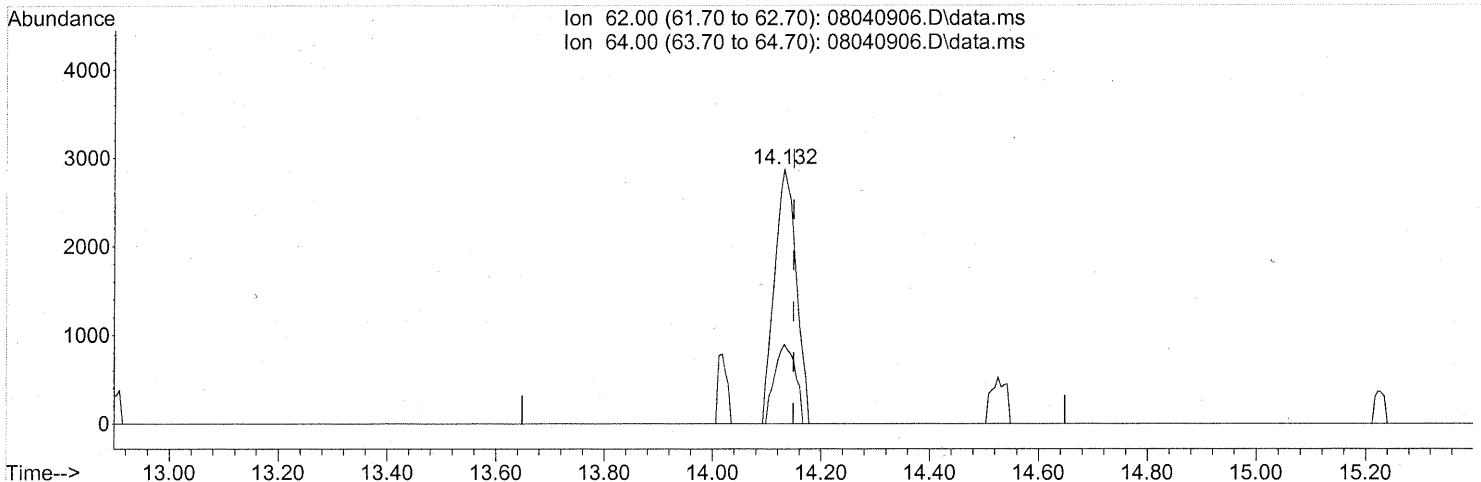
response 14386

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	85.38
42.10	206.50	636.29#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.017) 0.31ng

response 8009

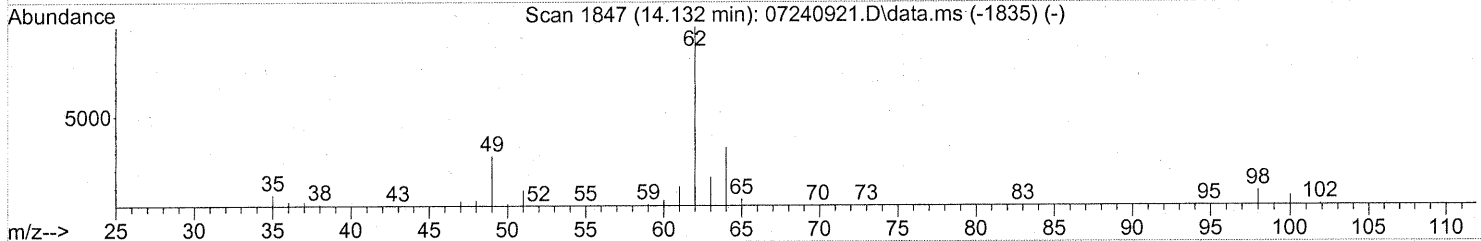
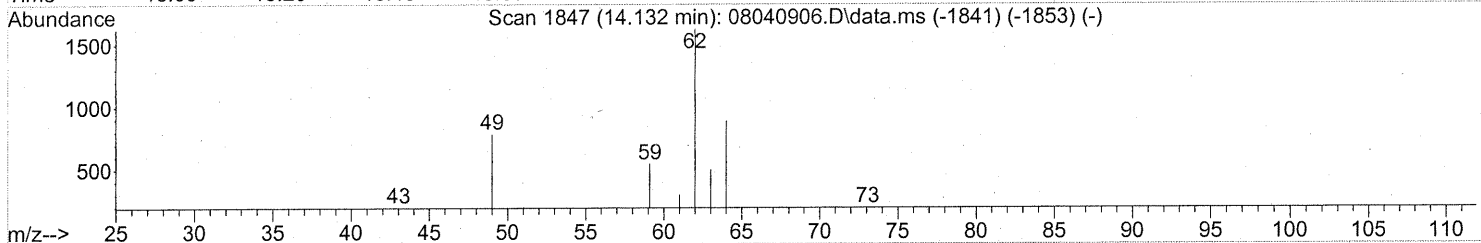
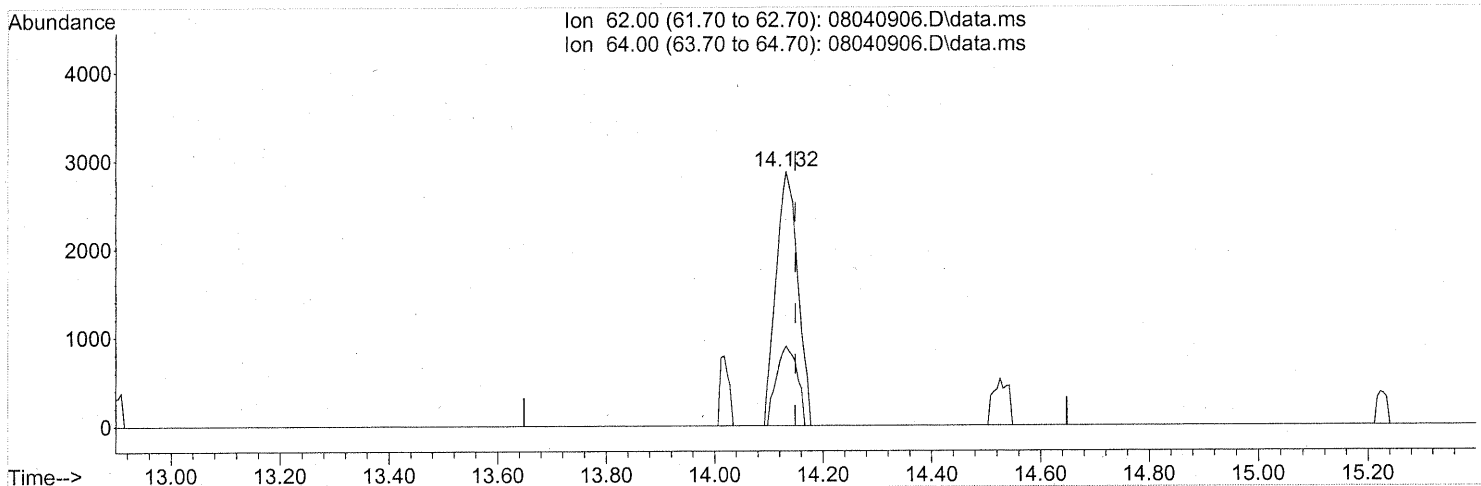
Before subtraction

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	29.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.017) 0.31ng

response 8009

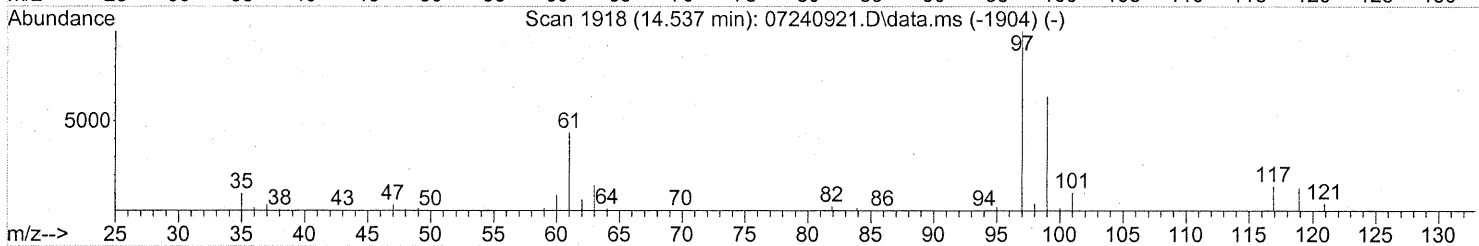
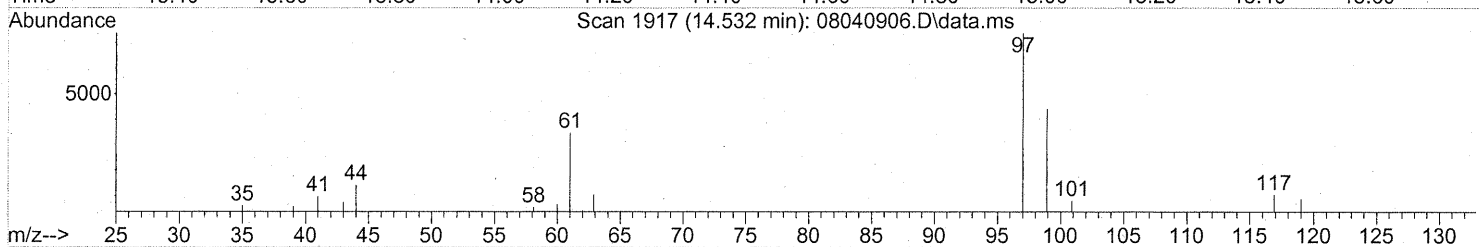
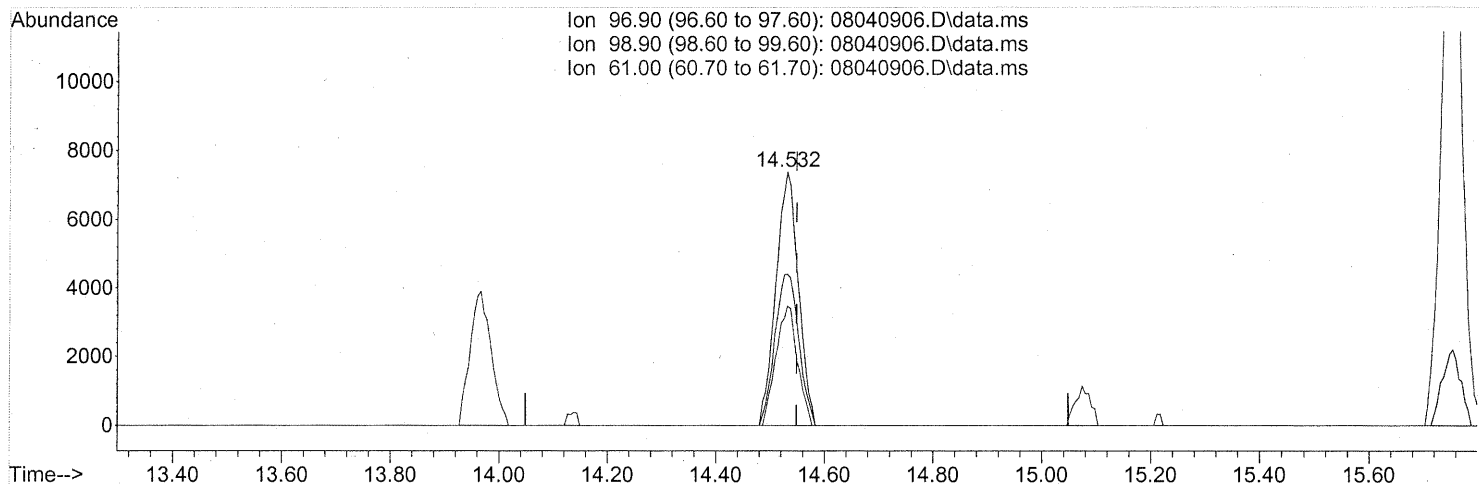
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	29.70
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.532min (-0.017) 0.69ng

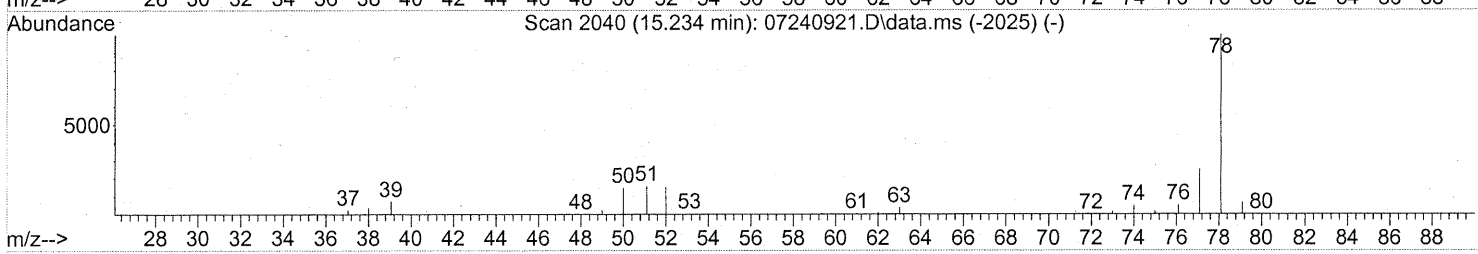
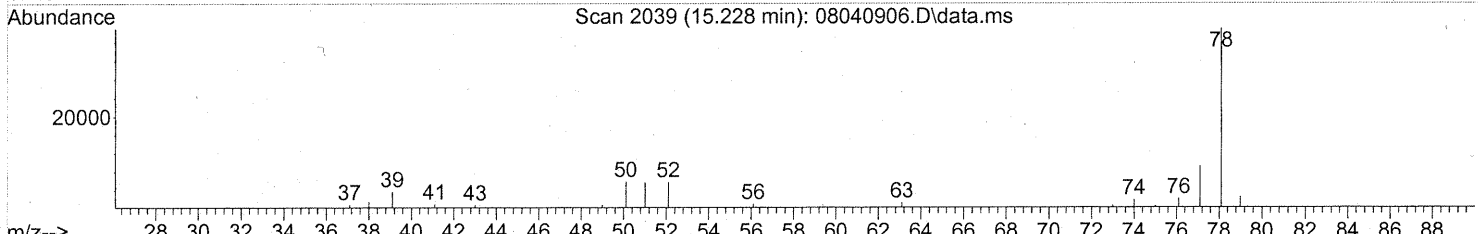
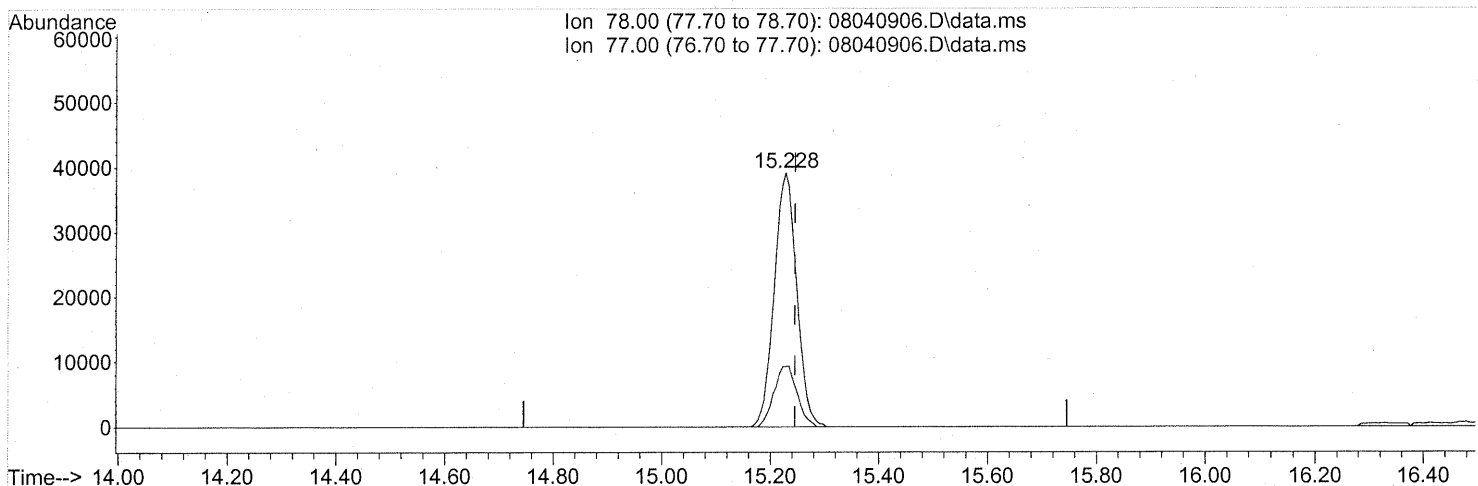
response 21118

Ion	Exp%	Act%
96.90	100	100
98.90	63.60	63.51
61.00	43.50	45.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(41) Benzene (T)

15.228min (-0.017) 1.26ng

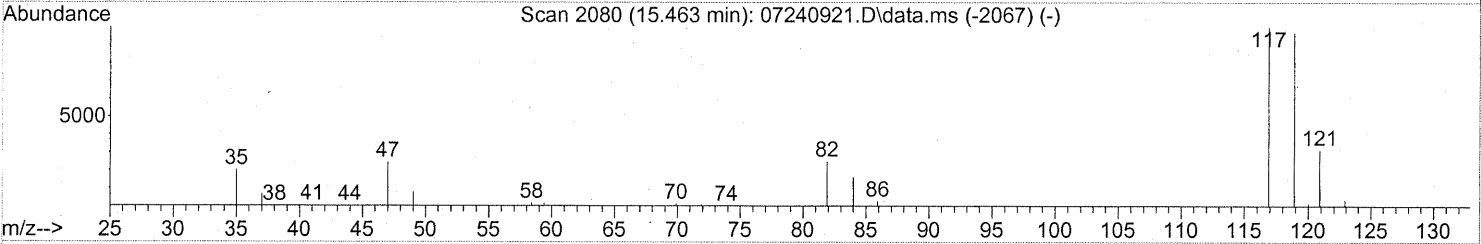
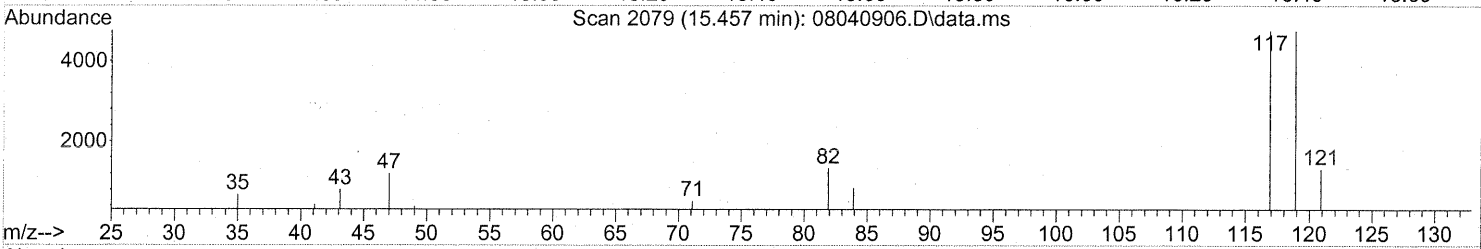
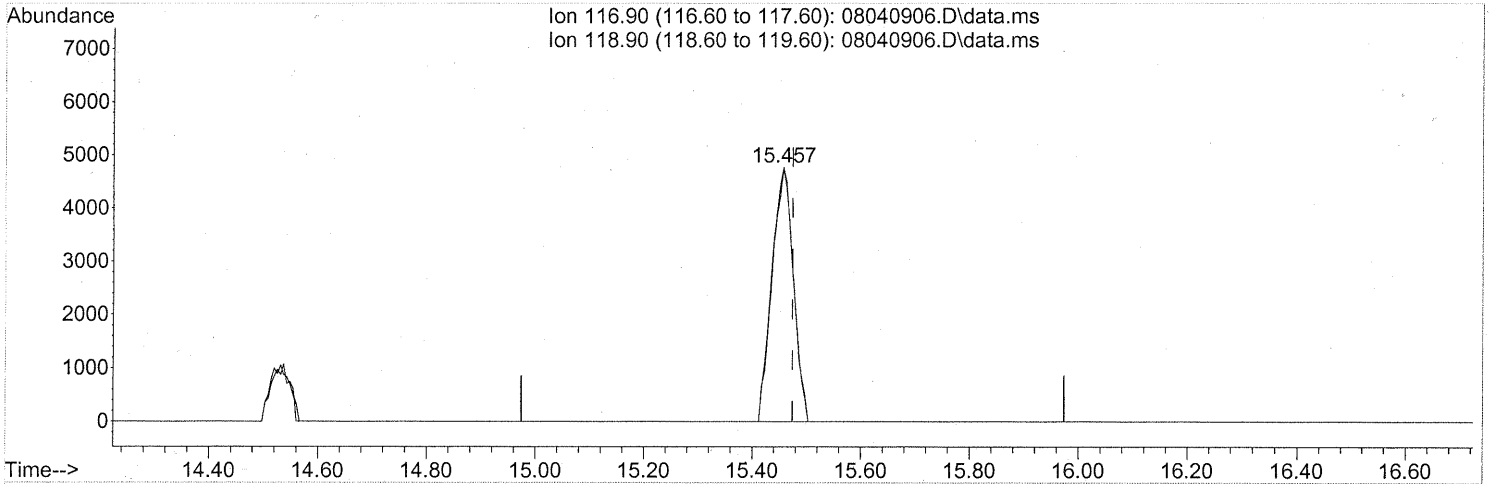
response 111720

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.50ng

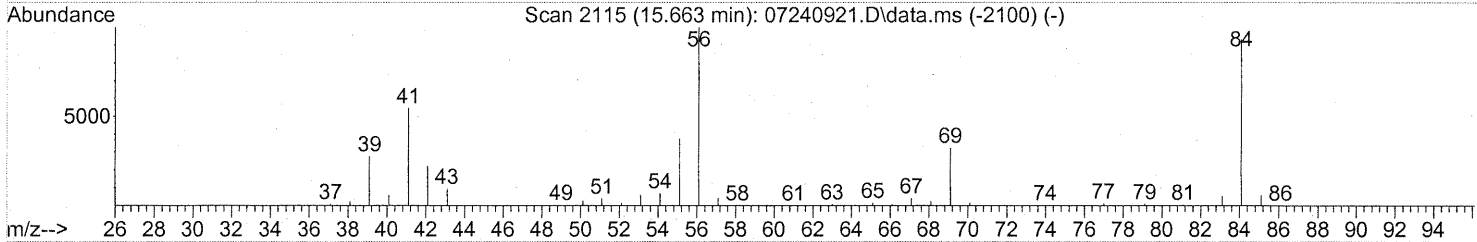
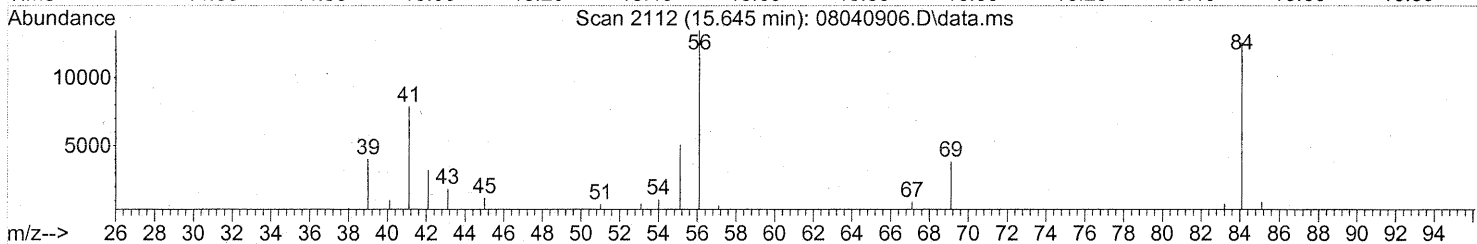
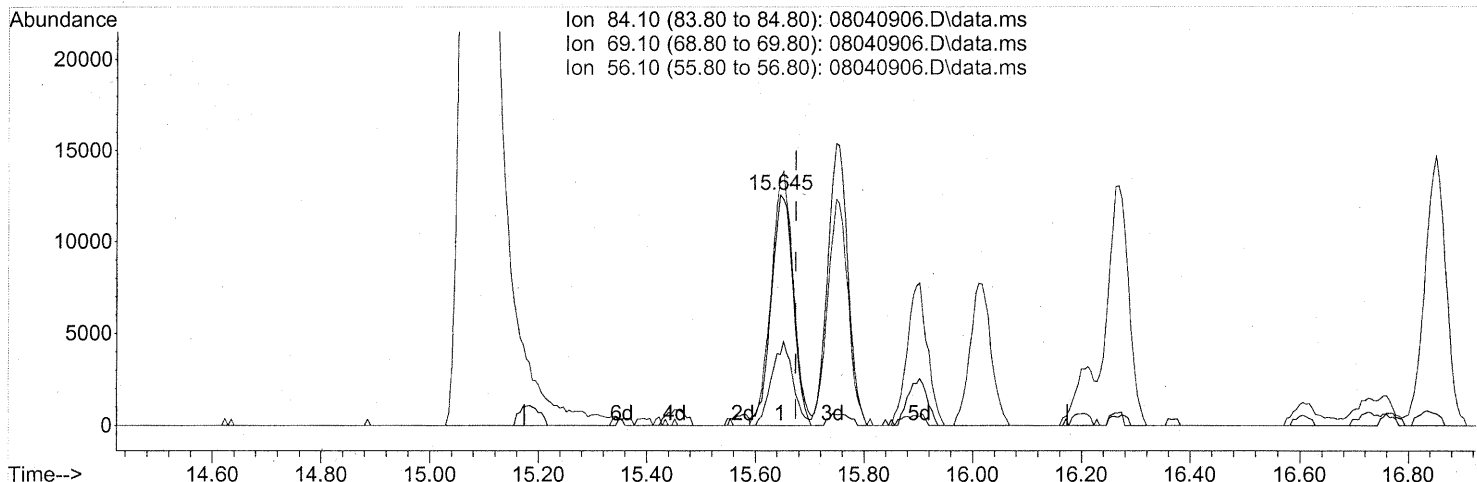
response 13078

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	97.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(43) Cyclohexane (T)

15.645min (-0.029) 1.06ng

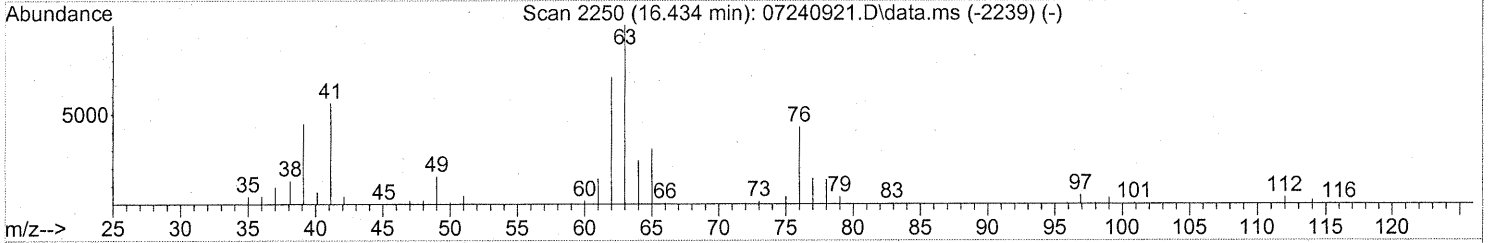
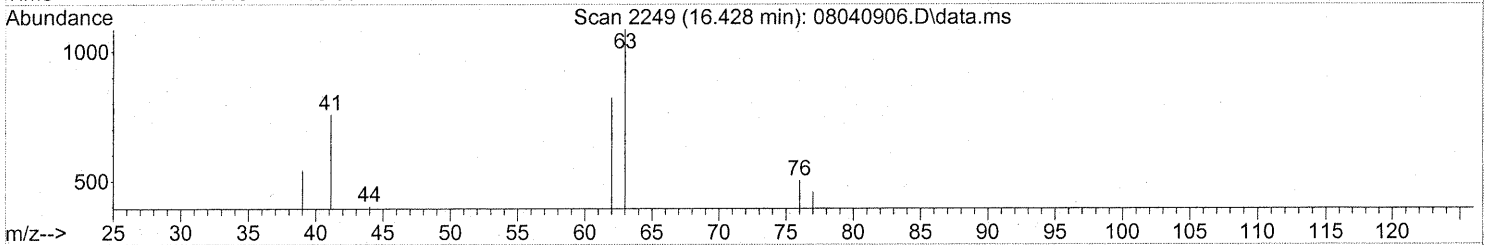
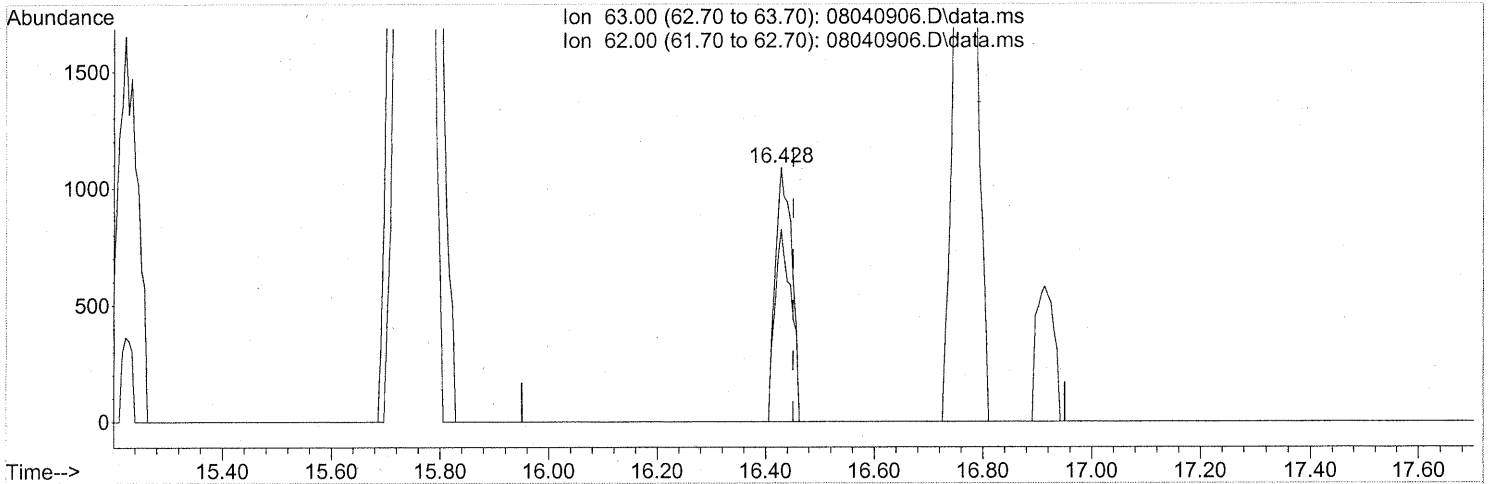
response 35097

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	35.34
56.10	107.30	112.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(45) 1,2-Dichloropropane (T)

16.428min (-0.023) 0.12ng

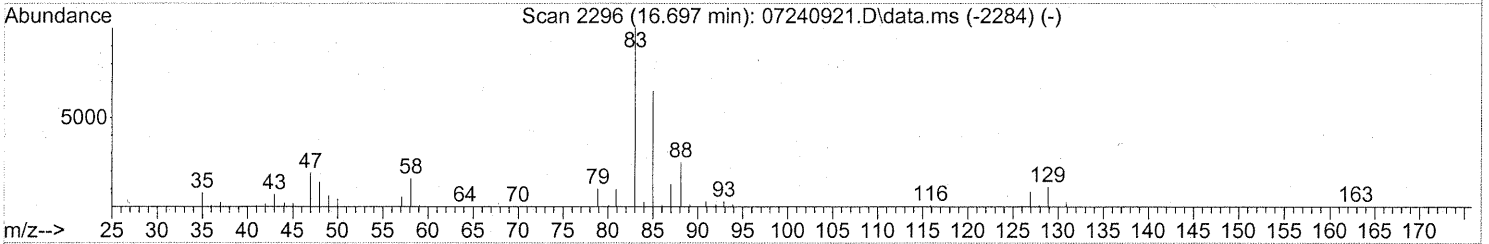
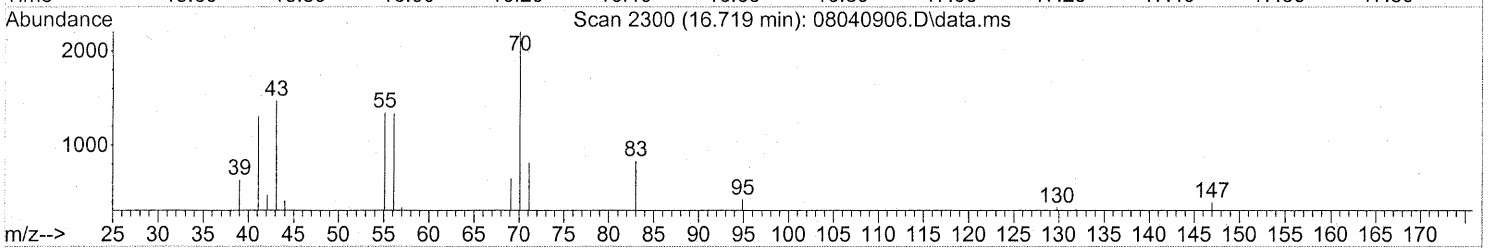
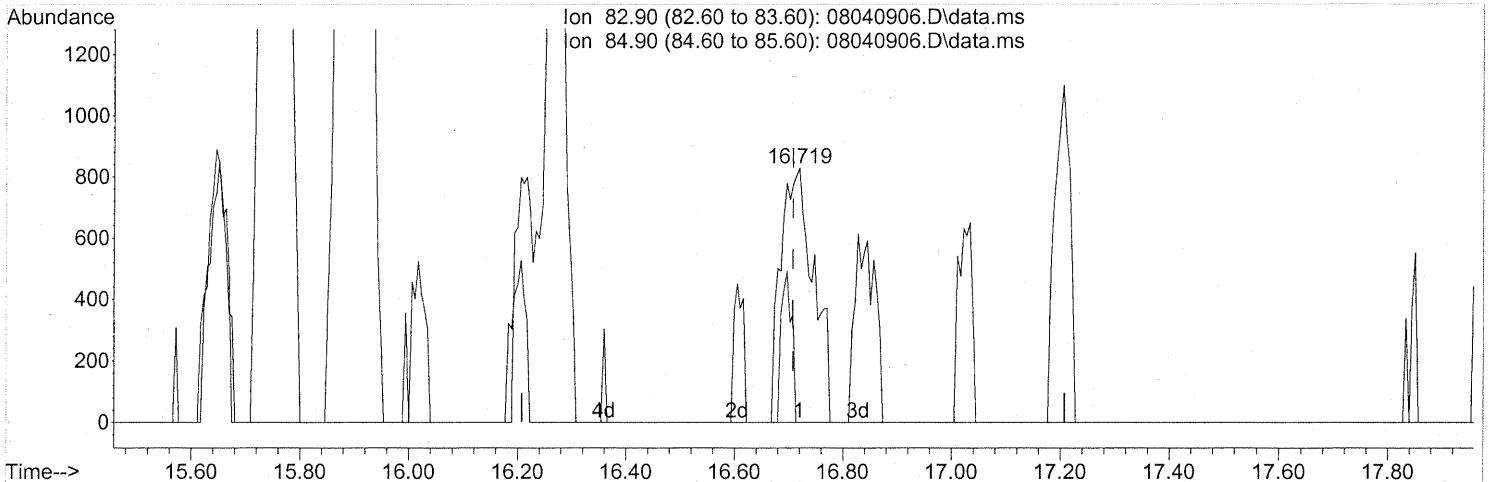
response 2294

Ion	Exp%	Act%
63.00	100	100
62.00	71.00	75.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 11:58:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.719min (+0.011) 0.14ng

response 3468

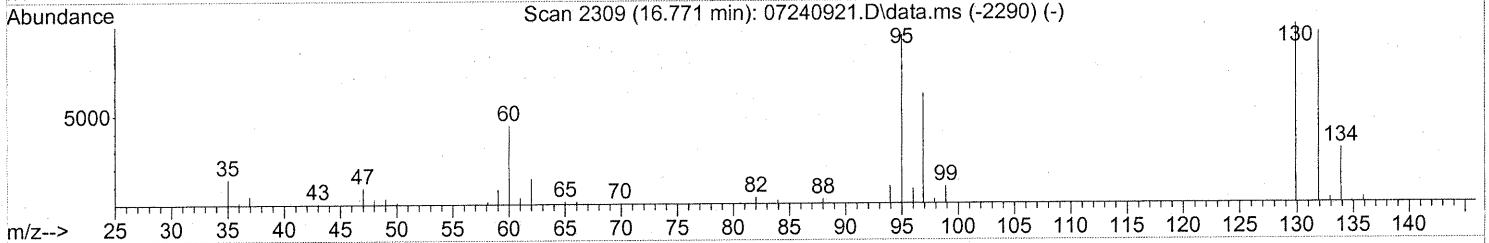
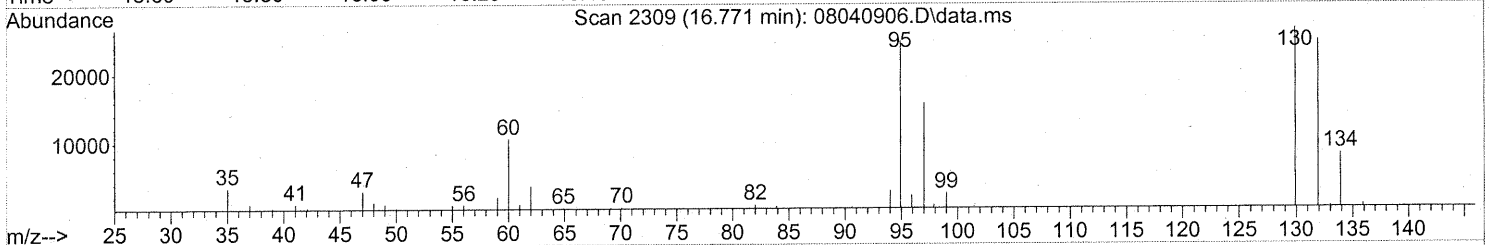
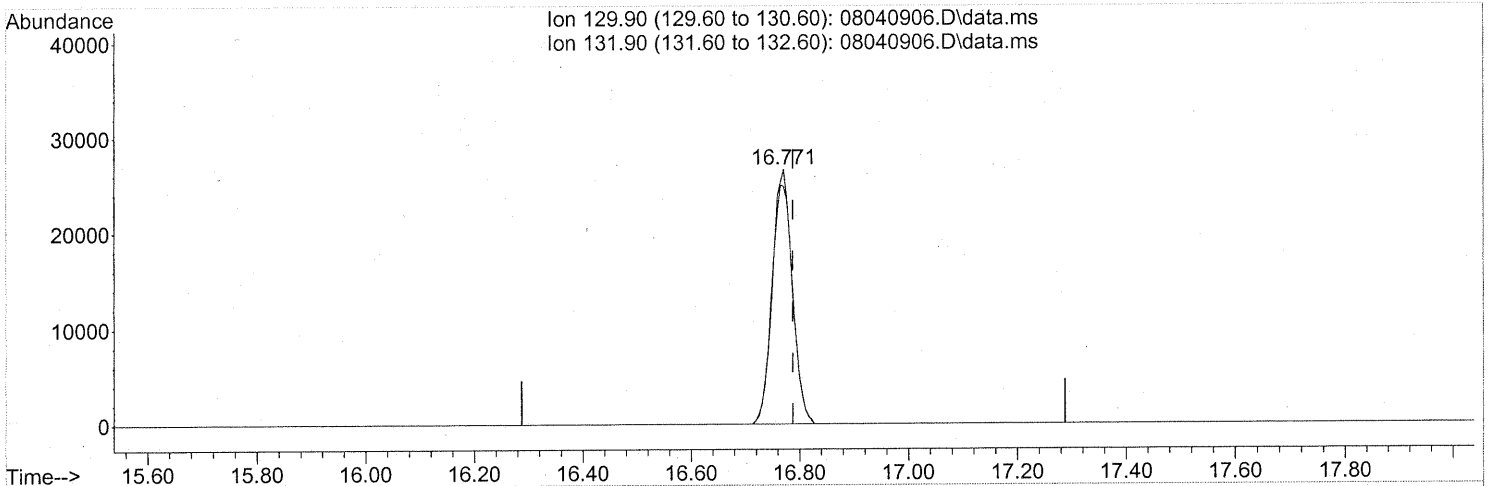
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
um 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

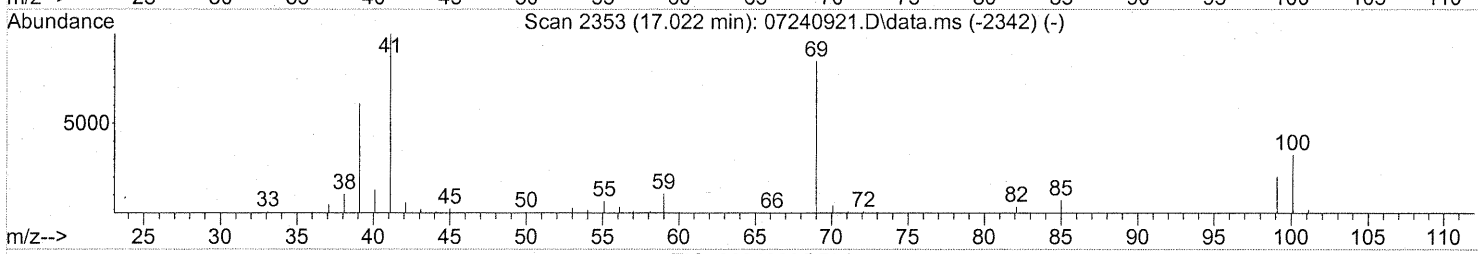
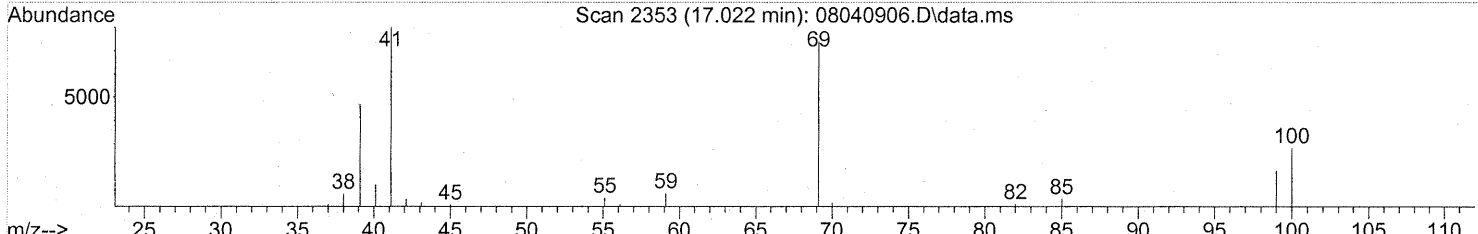
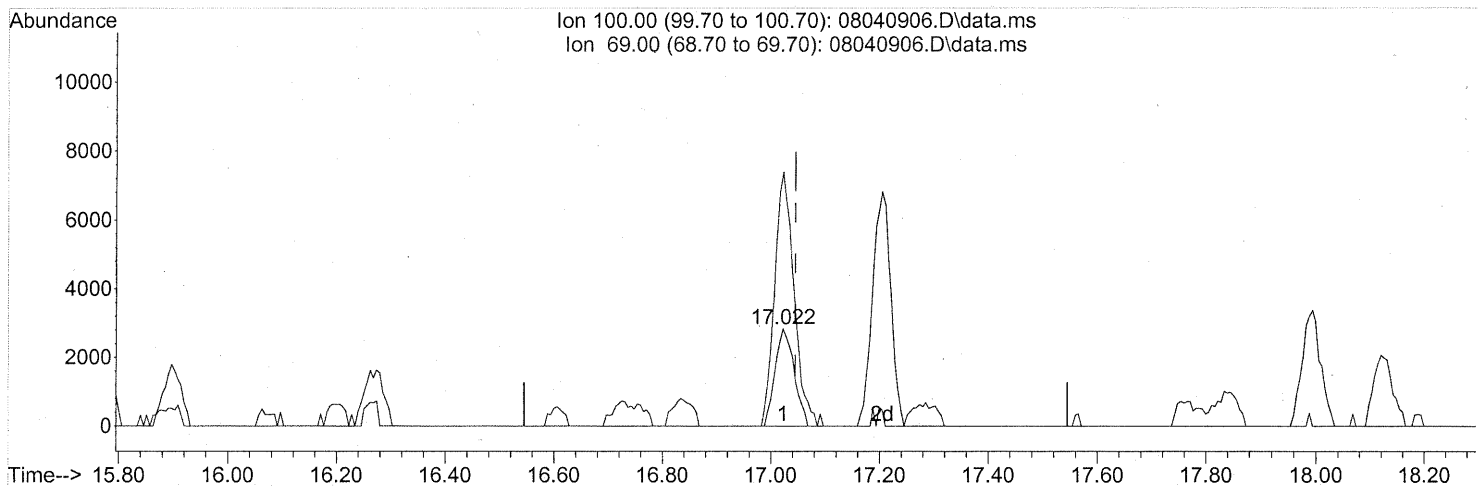
(47) Trichloroethene (T)
 16.771min (-0.017) 3.02ng
 response 68527

Ion	Exp%	Act%
129.90	100	100
131.90	95.60	96.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(50) Methyl Methacrylate (T)

17.022min (-0.023) 0.82ng

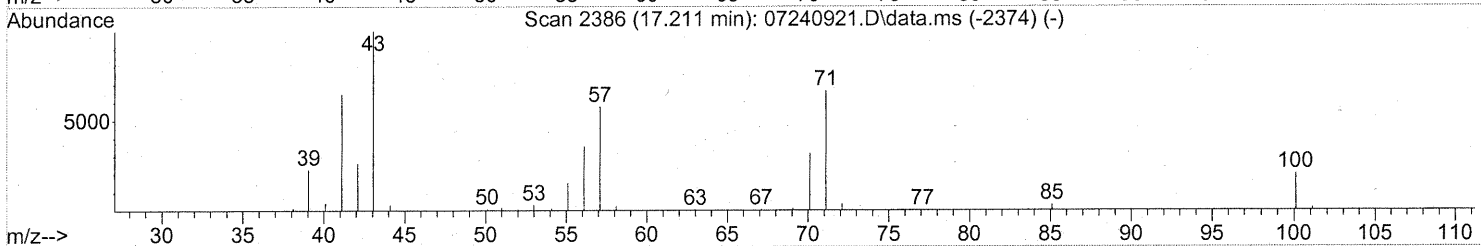
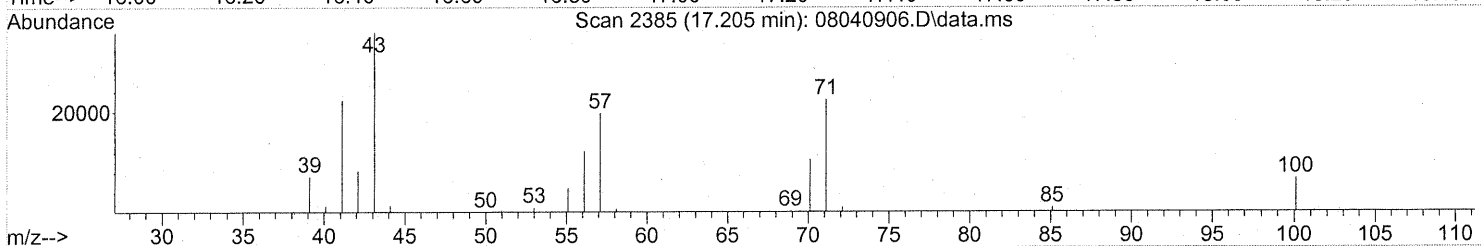
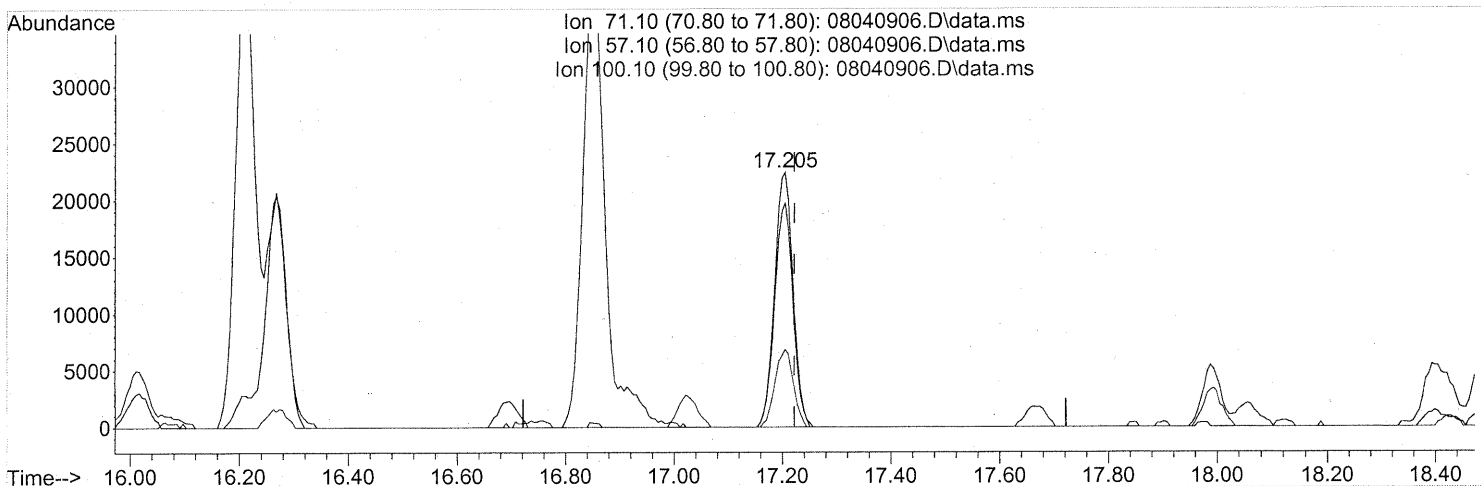
response 6855

Ion	Exp%	Act%
100.00	100	100
69.00	261.10	268.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(51) n-Heptane (T)

17.205min (-0.017) 2.45ng

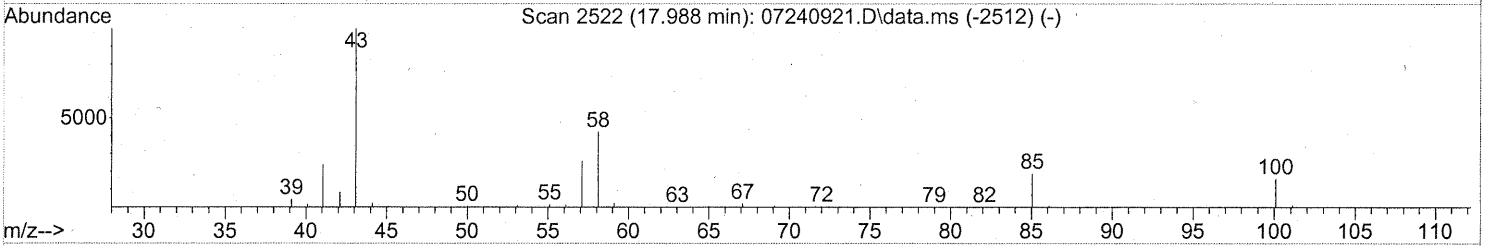
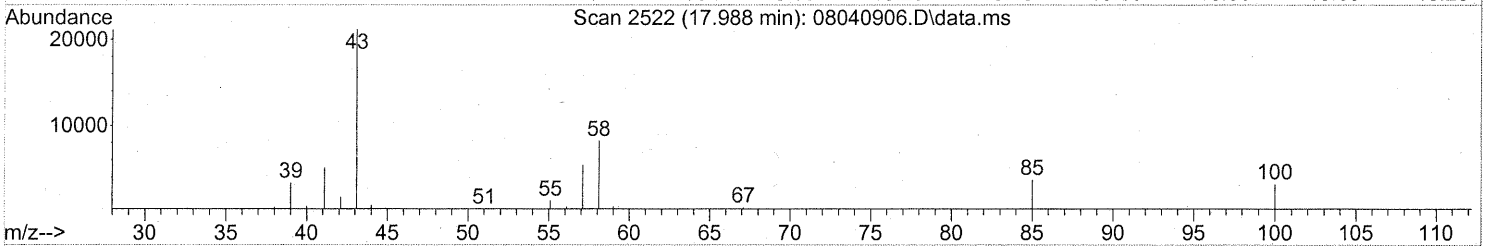
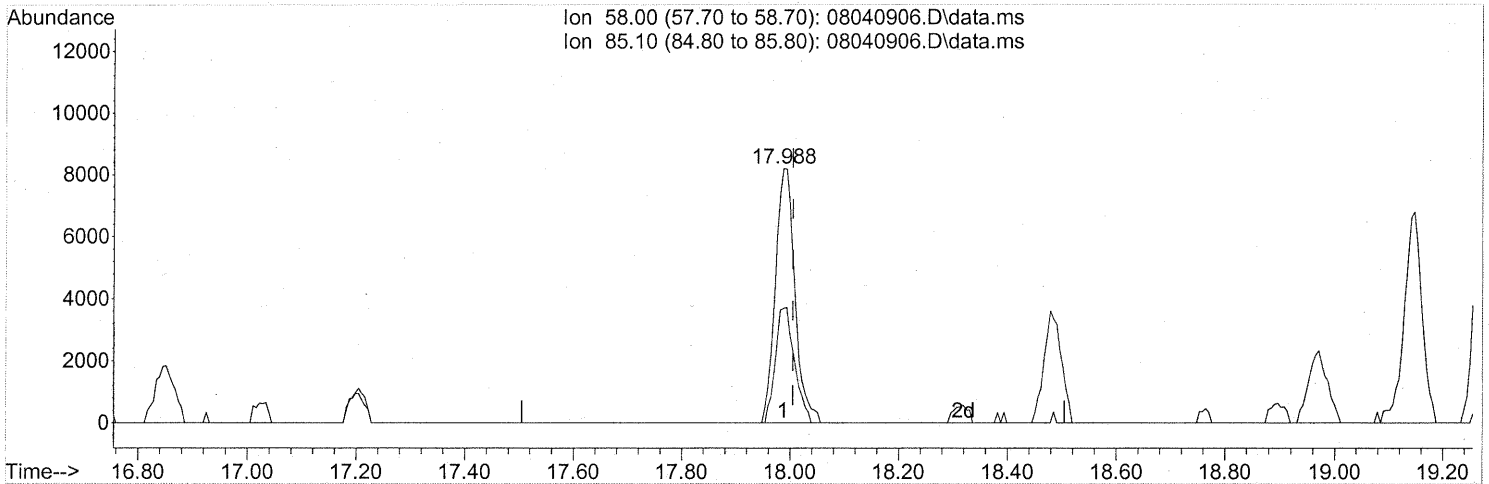
response 52591

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	87.57
100.10	30.70	30.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

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

17.988min (-0.017) 1.21ng

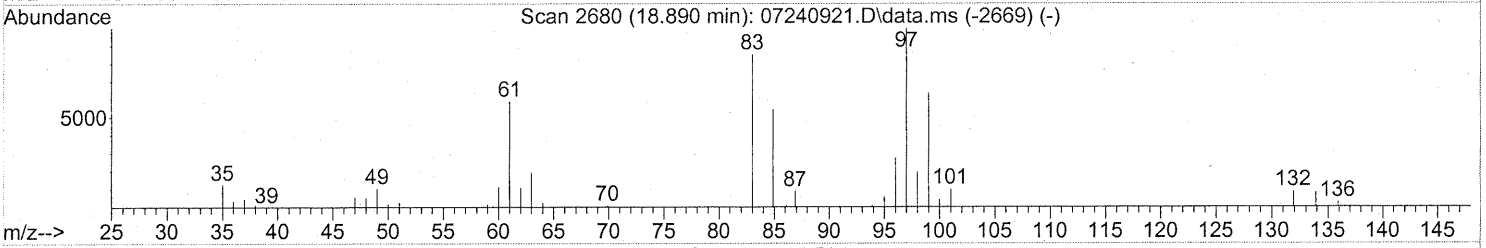
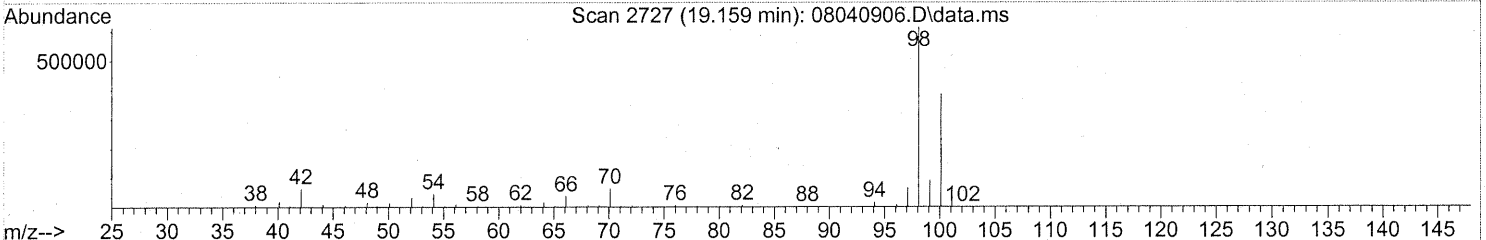
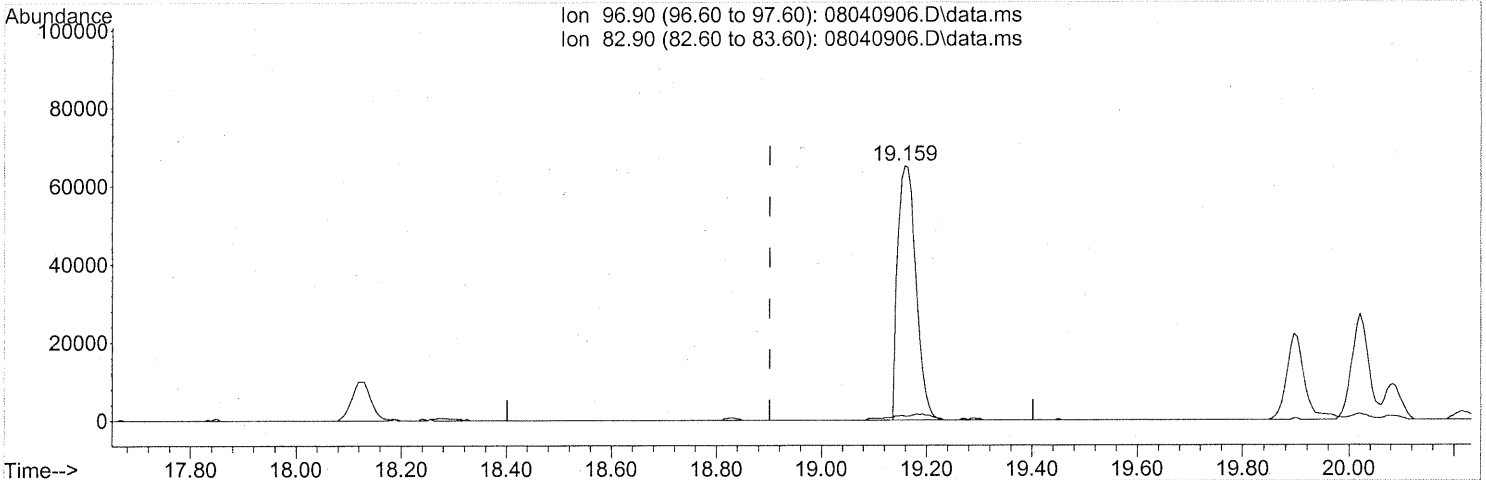
response 20349

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	44.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 11:58:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

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

19.159min (+0.257) 8.45ng

response 157428

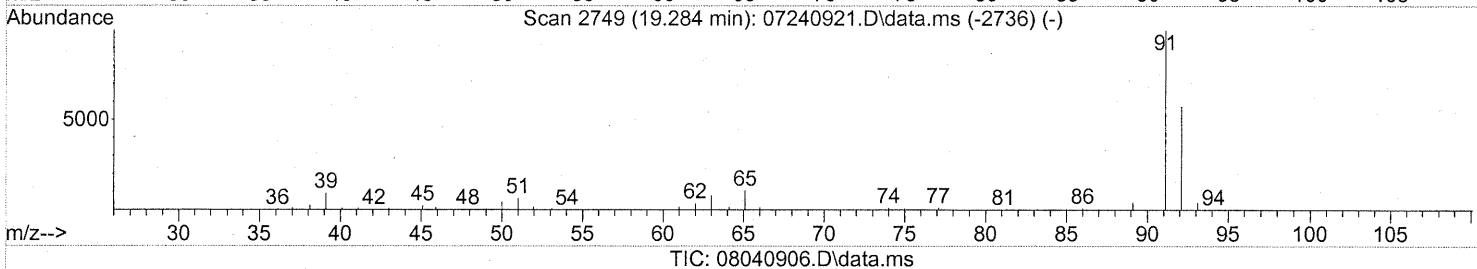
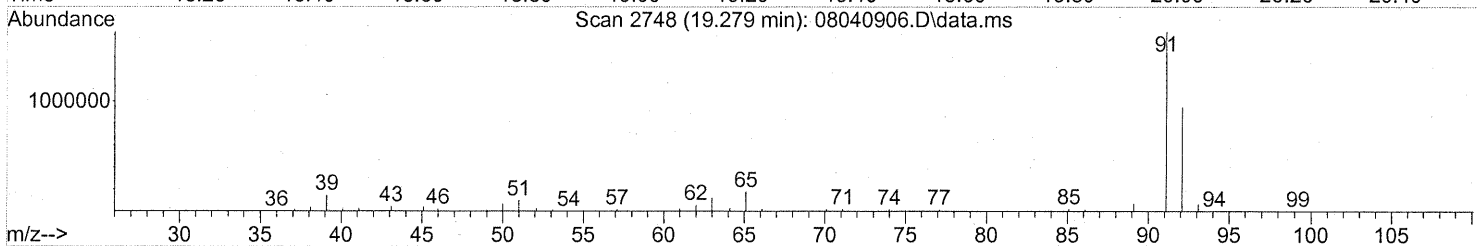
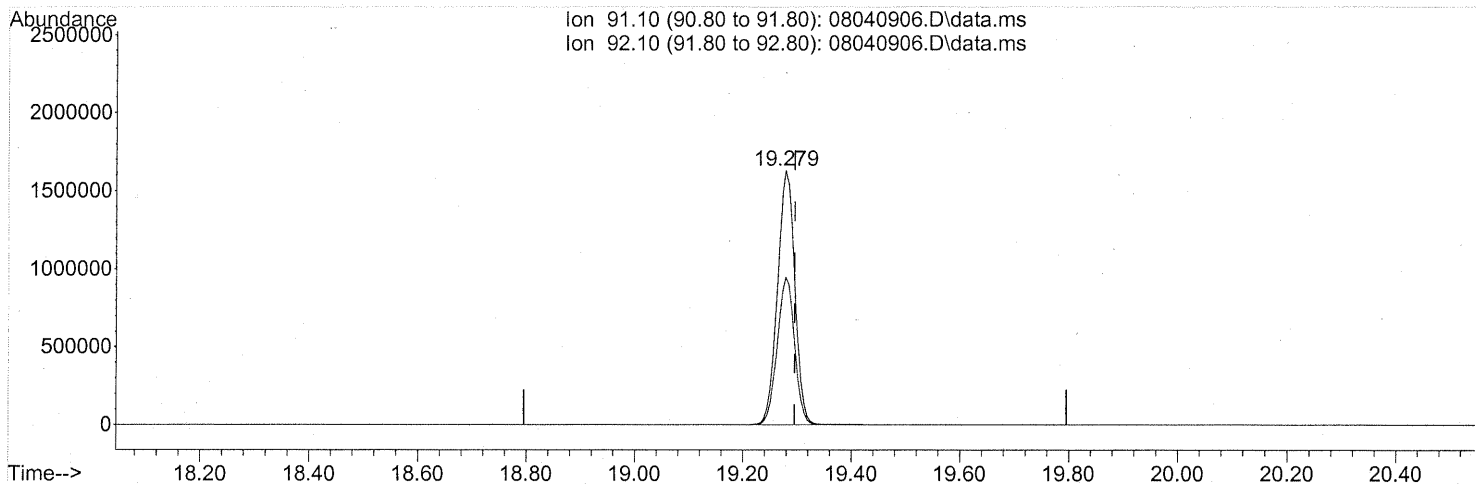
Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.59#
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
W 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(58) Toluene (T)

19.279min (-0.017) 36.32ng

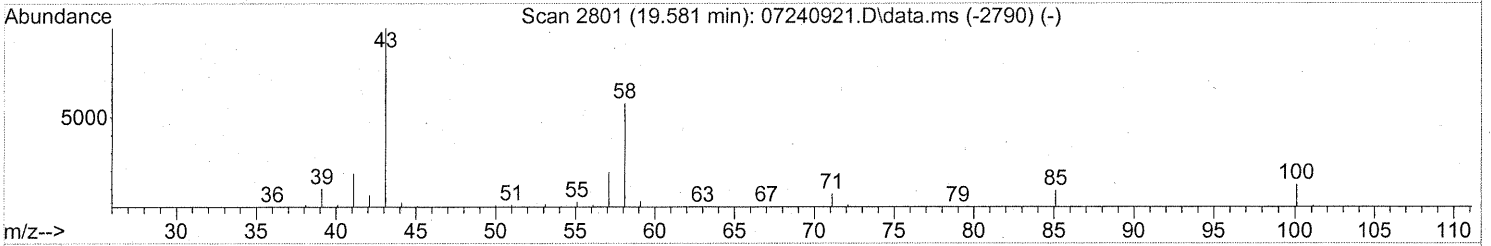
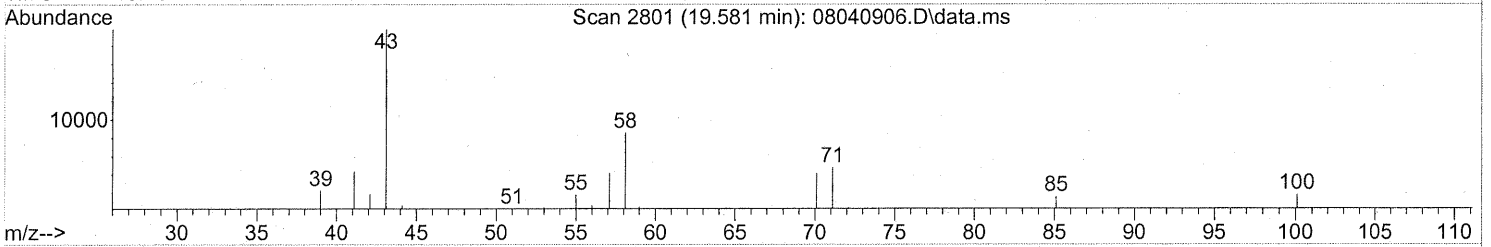
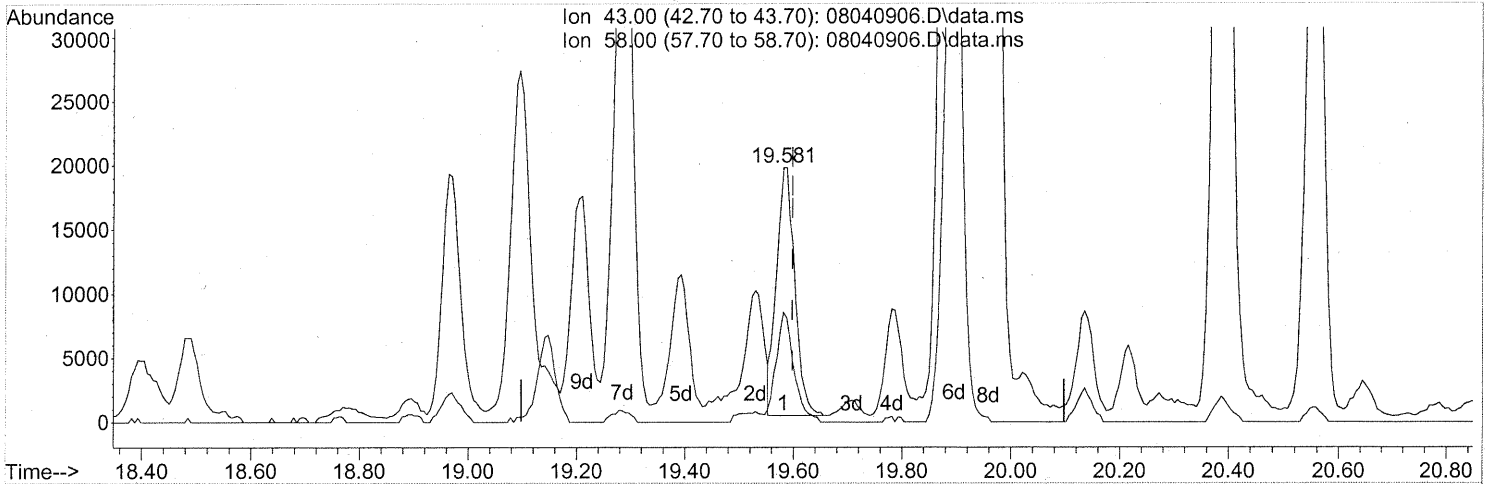
response 3615509

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

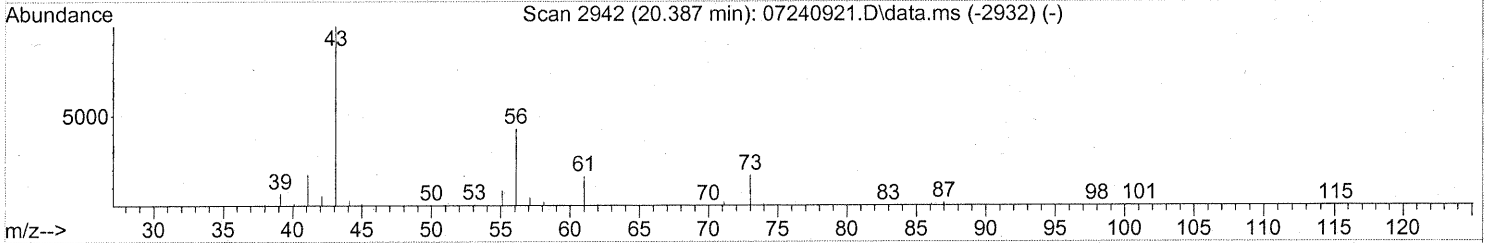
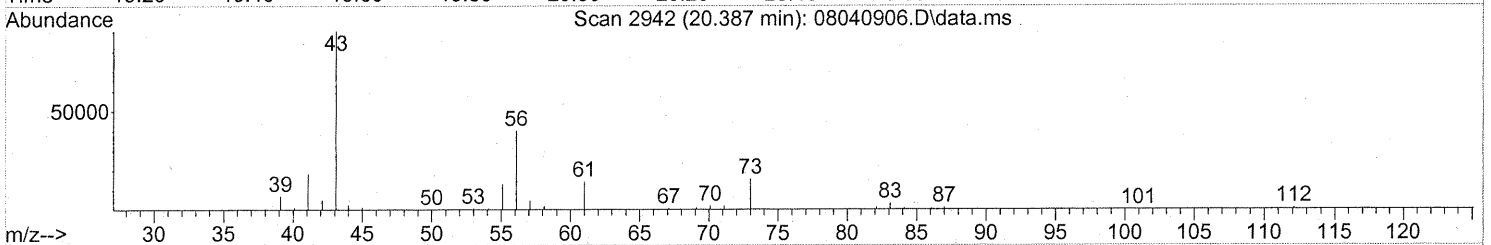
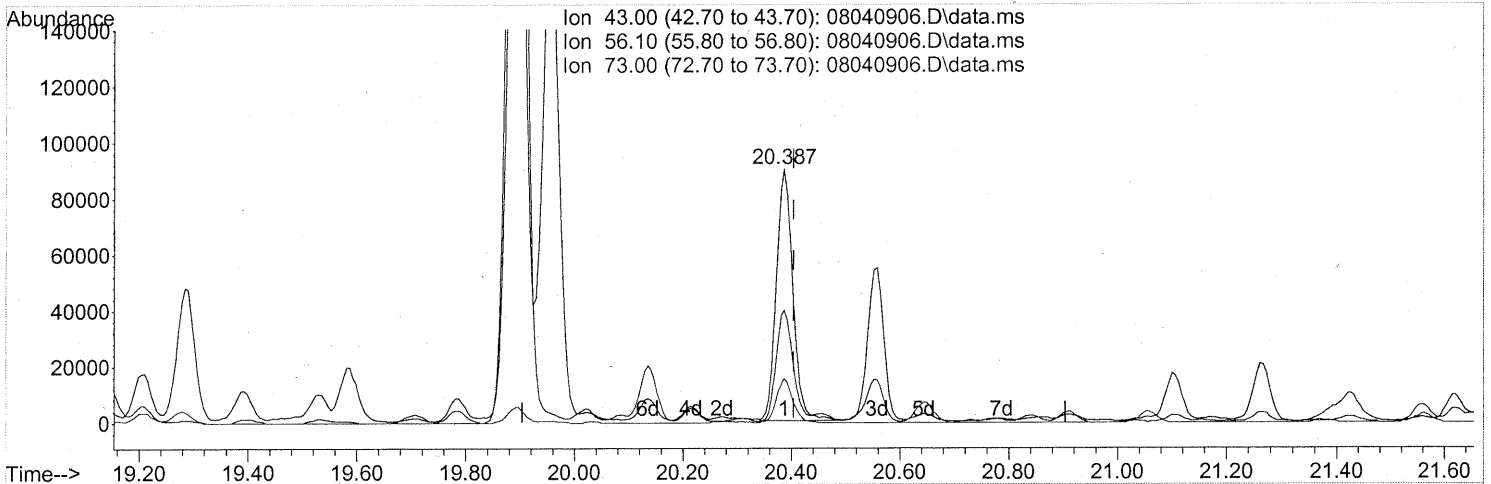
(59) 2-Hexanone (T)
 19.581min (-0.017) 1.05ng
 response 44872

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	43.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

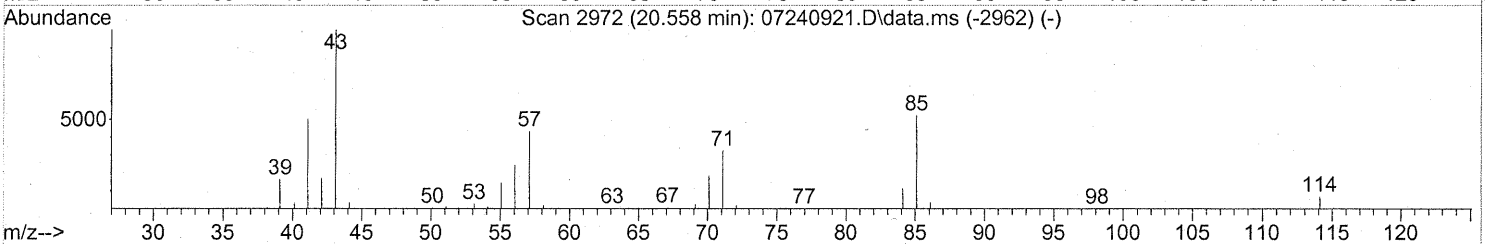
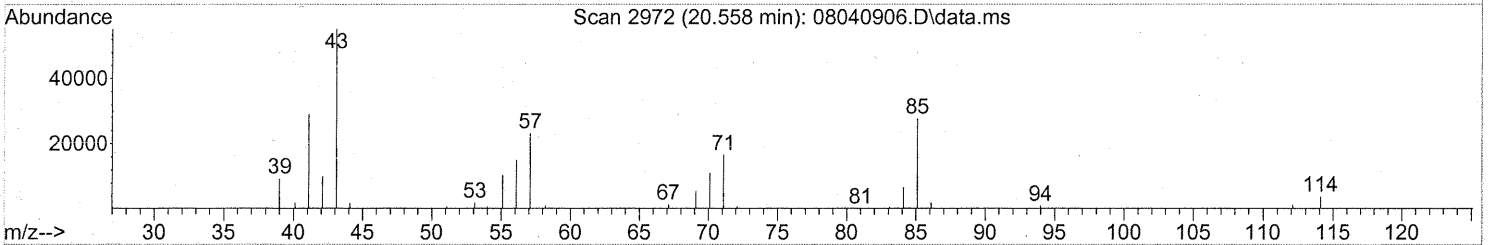
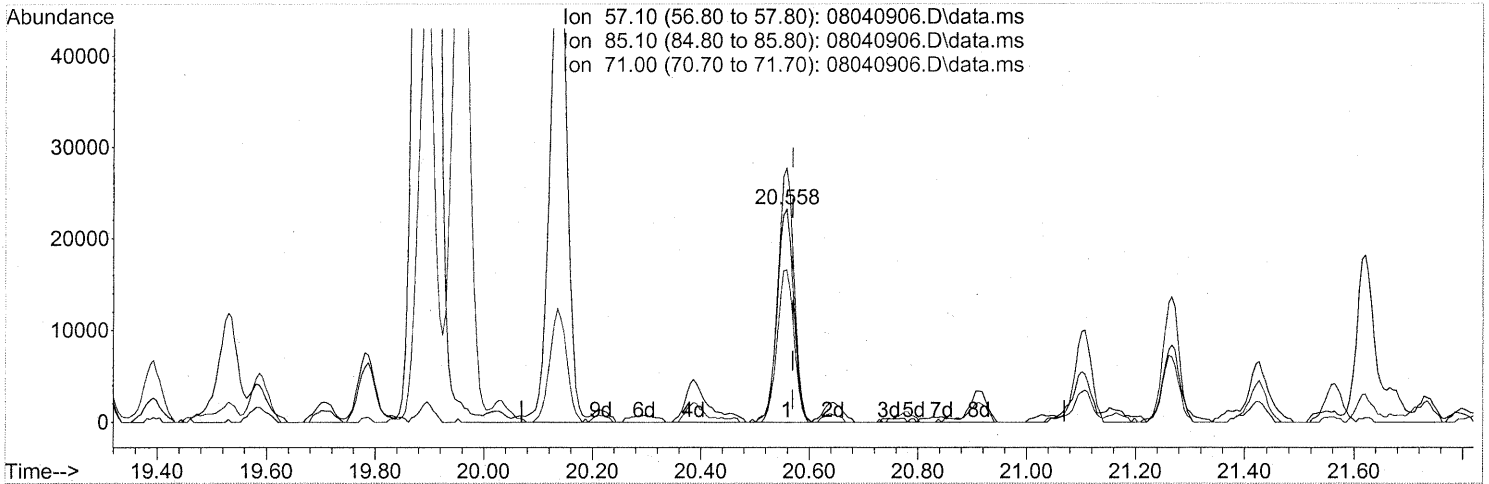
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 3.97ng
 response 188765

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	48.13
73.00	16.90	17.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(63) n-Octane (T)

20.558min (-0.011) 2.53ng

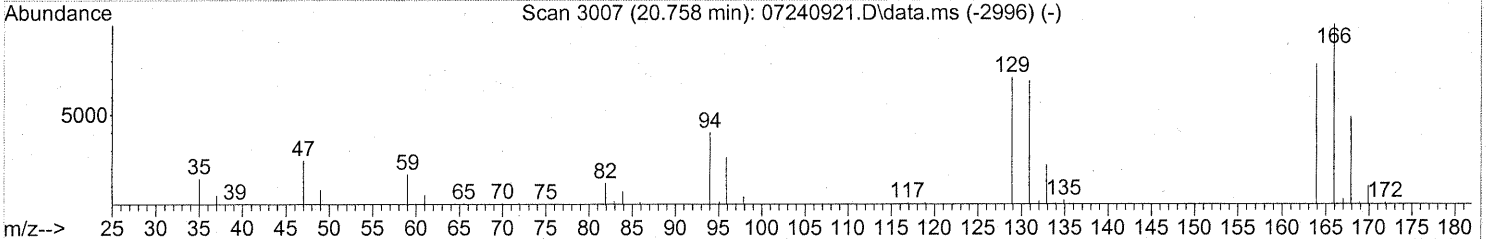
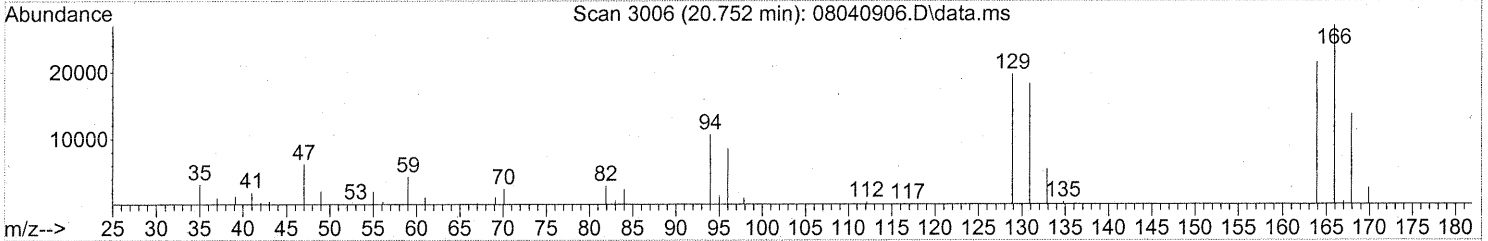
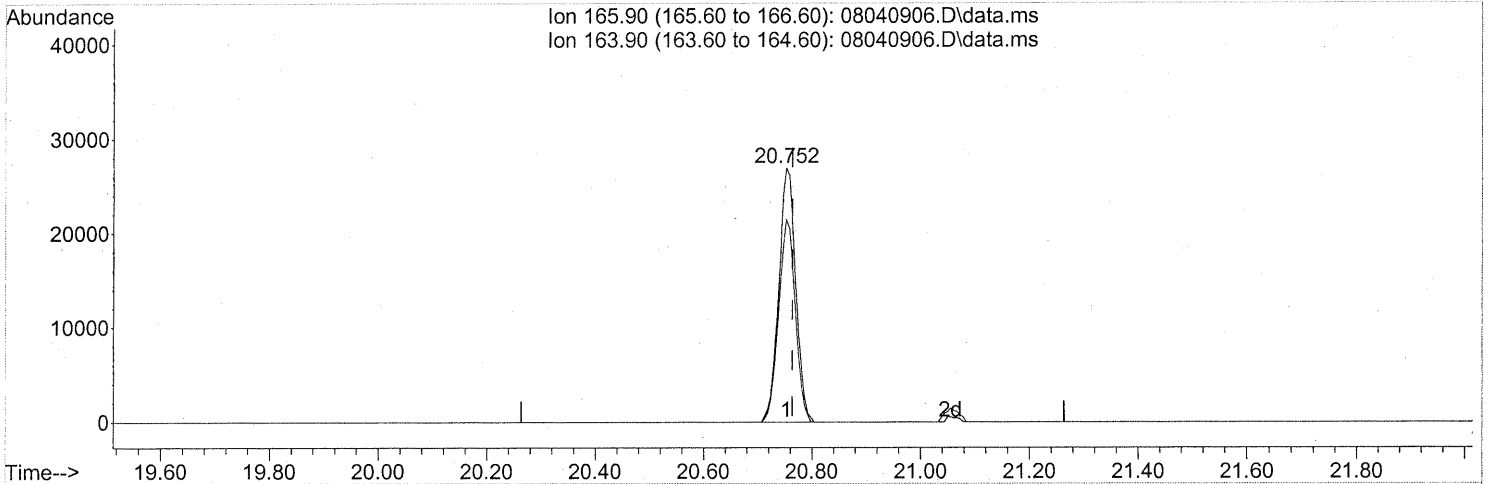
response 49305

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	115.43
71.00	75.10	73.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(64) Tetrachloroethene (T)

20.752min (-0.011) 2.22ng

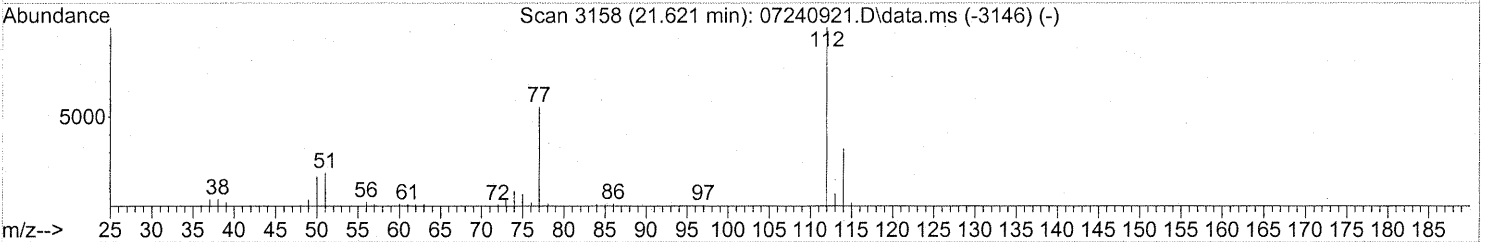
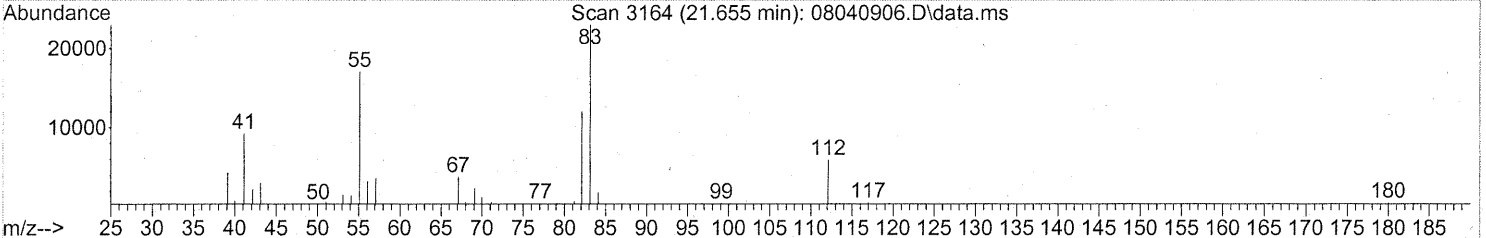
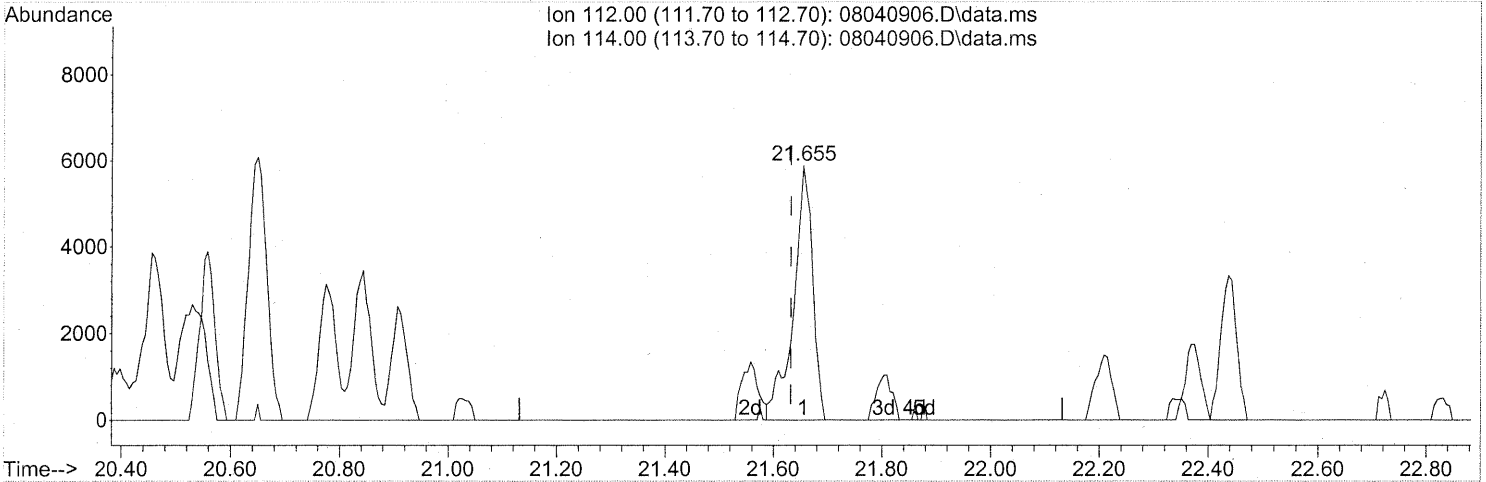
response 58422

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	78.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 11:58:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(65) Chlorobenzene (T)
 21.655min (+0.023) 0.23ng
 response 14420

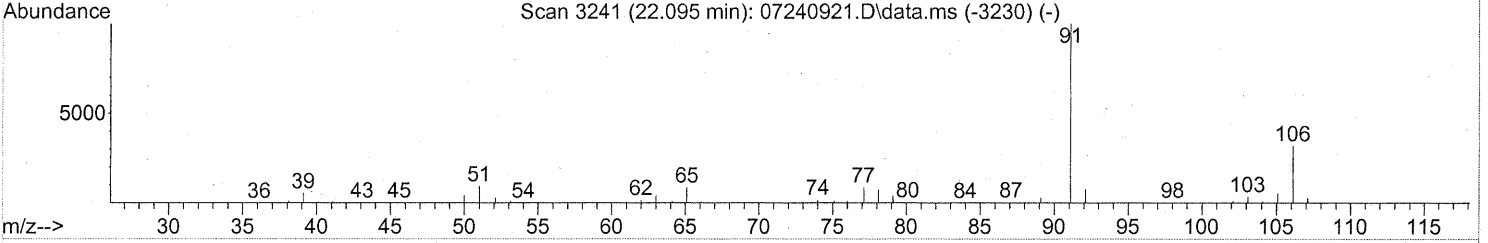
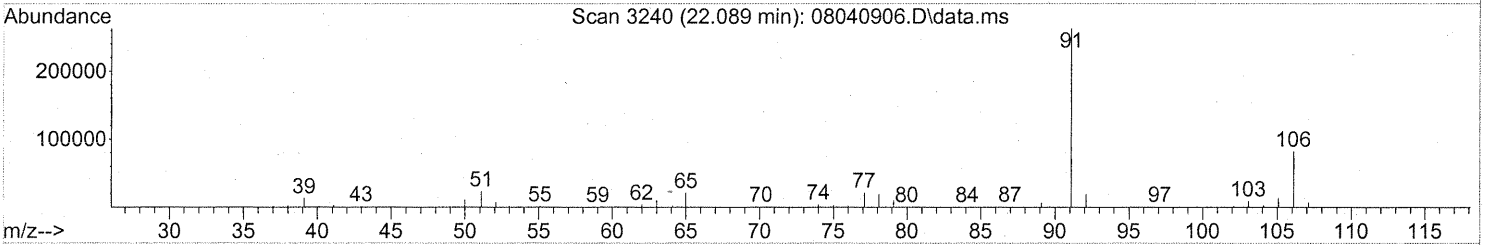
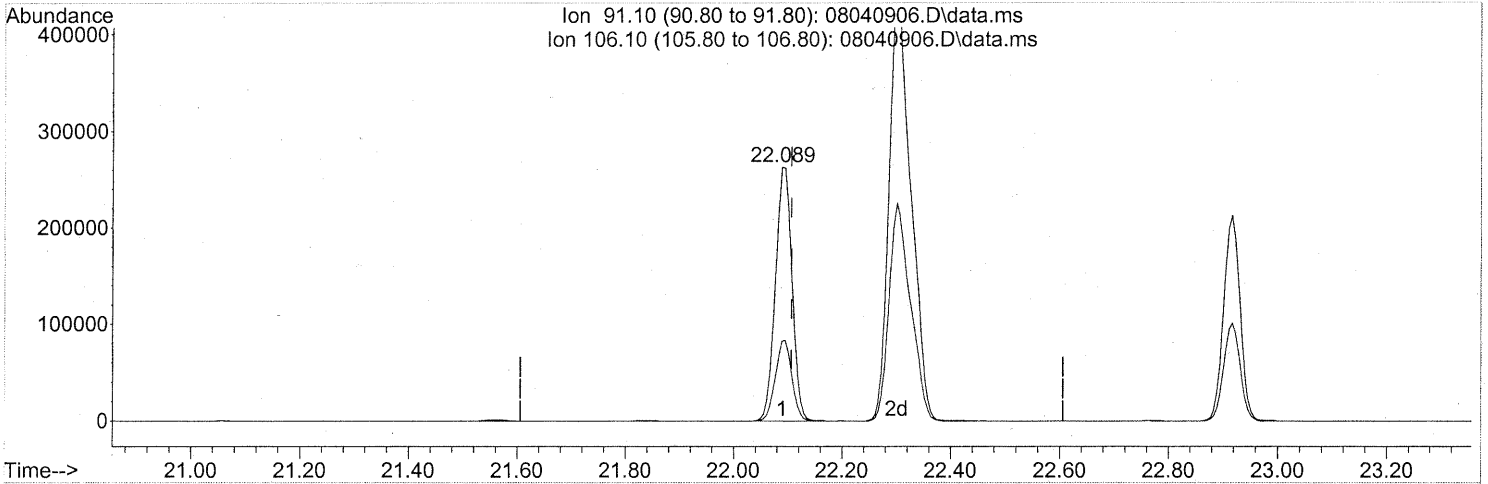
Ion	Exp%	Act%
112.00	100	100
114.00	32.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
ur 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

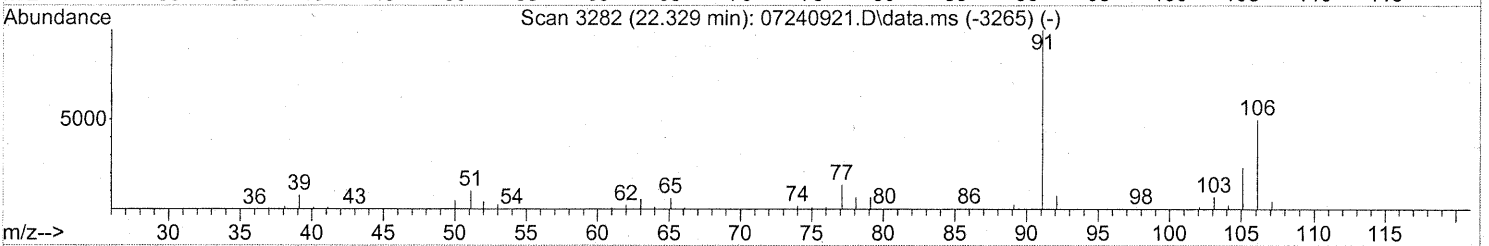
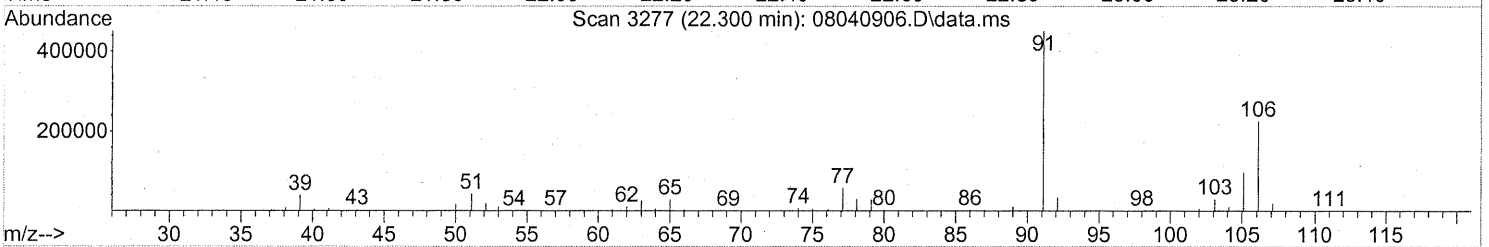
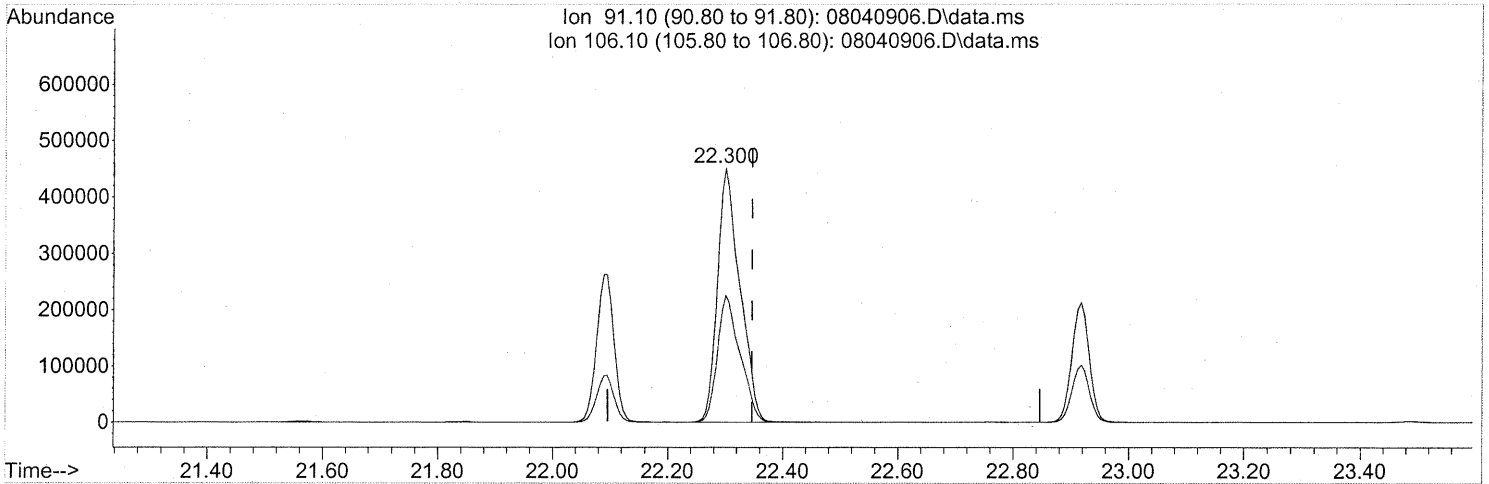
(66) Ethylbenzene (T)
 22.089min (-0.017) 5.16ng
 response 558101

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	31.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

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

22.300min (-0.046) 13.79ng

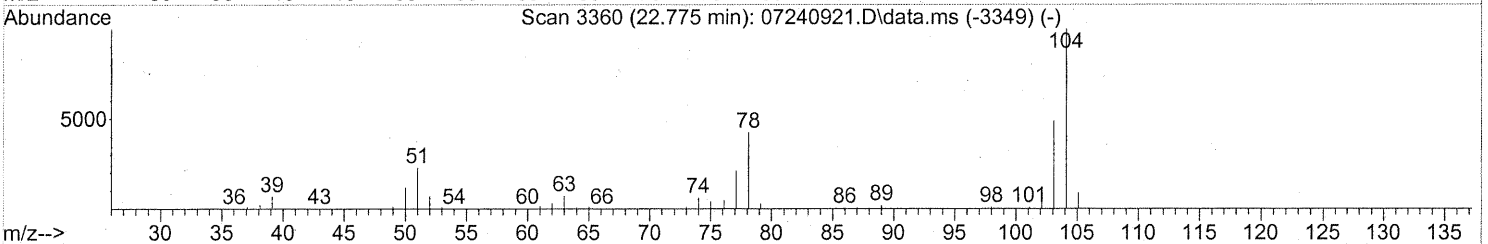
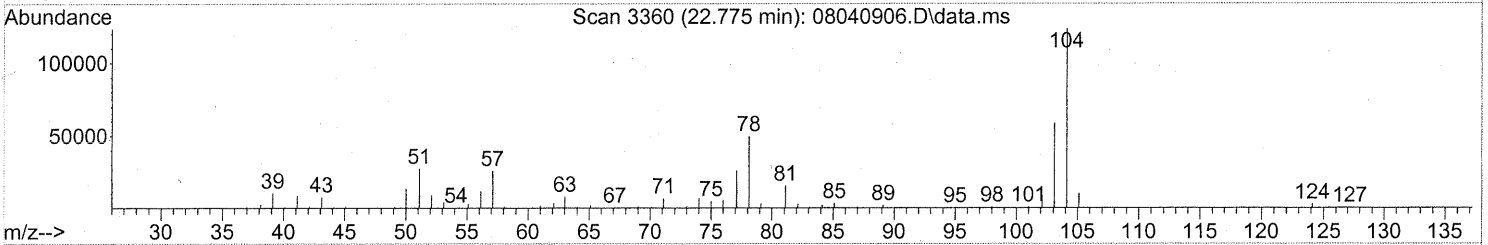
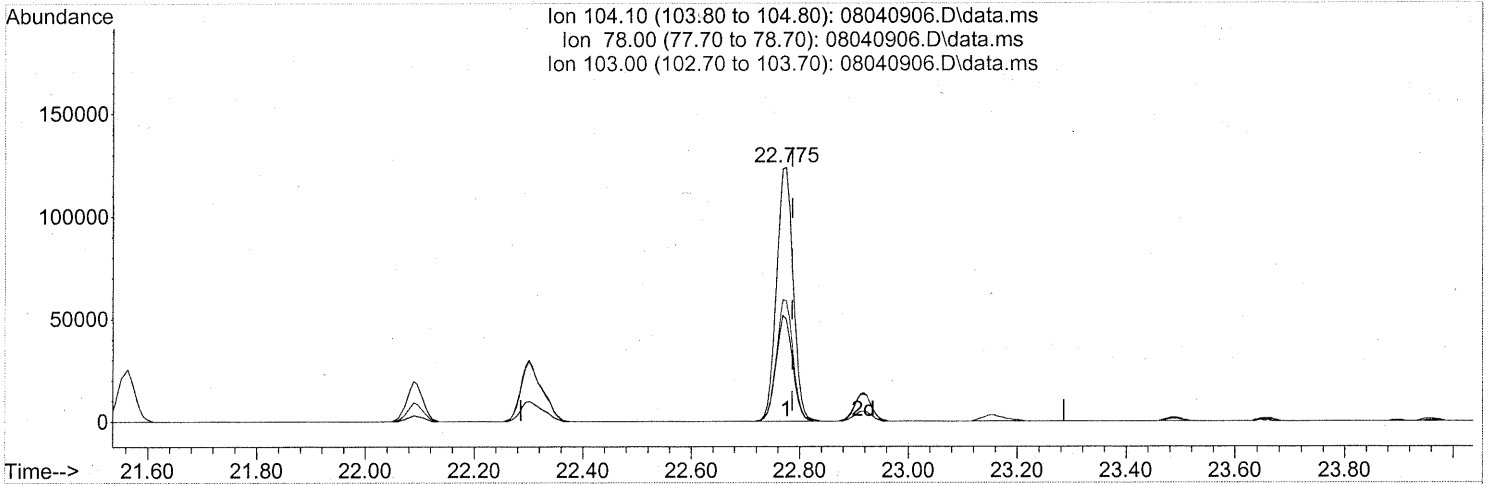
response 1230701

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	50.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(69) Styrene (T)

22.775min (-0.011) 3.96ng

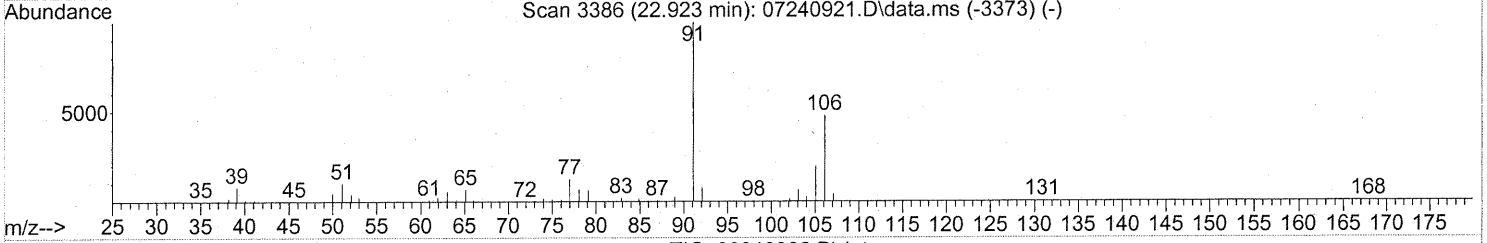
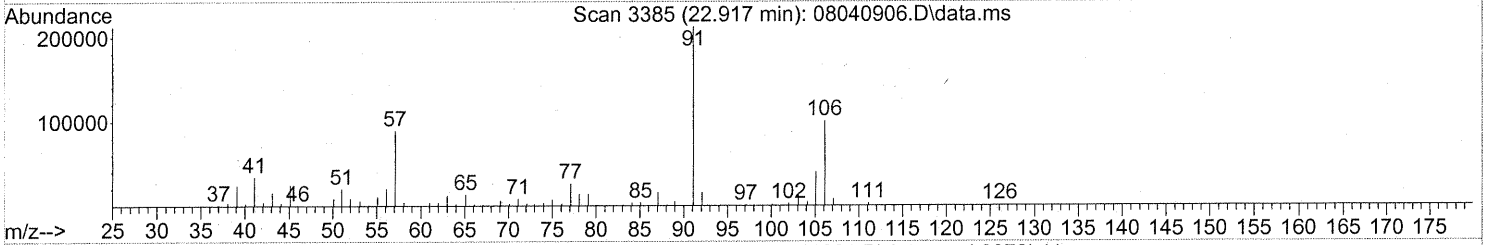
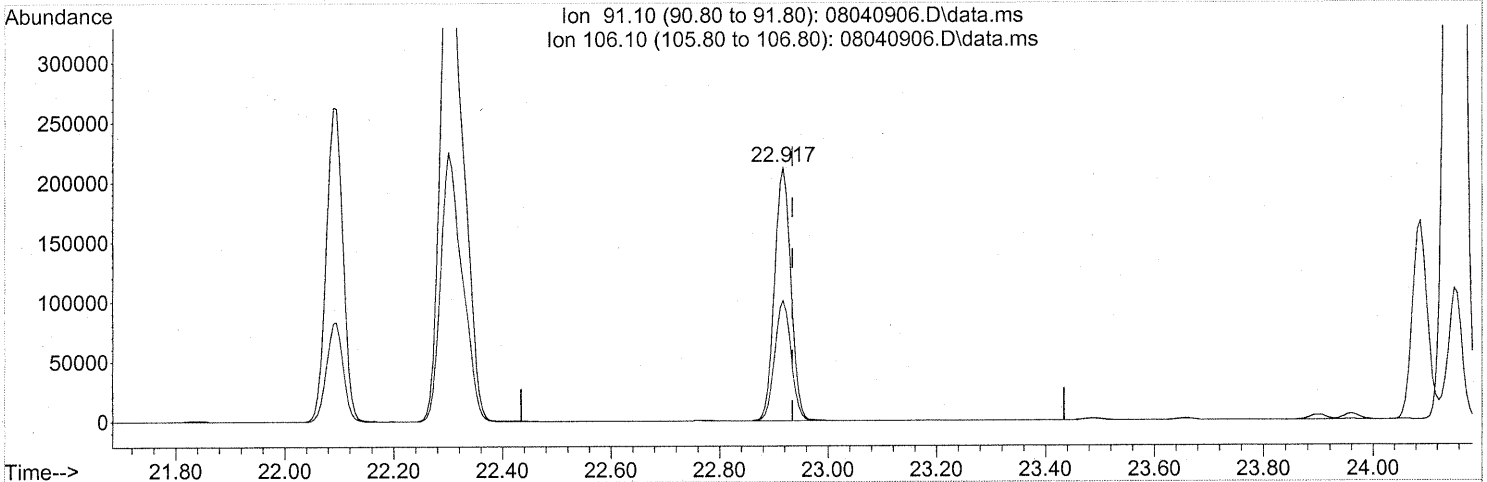
response 260587

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.23
103.00	48.70	48.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.917min (-0.017) 5.00ng

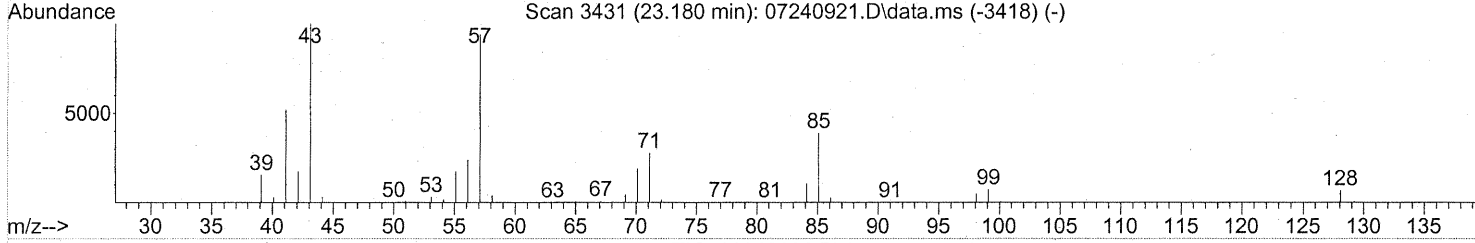
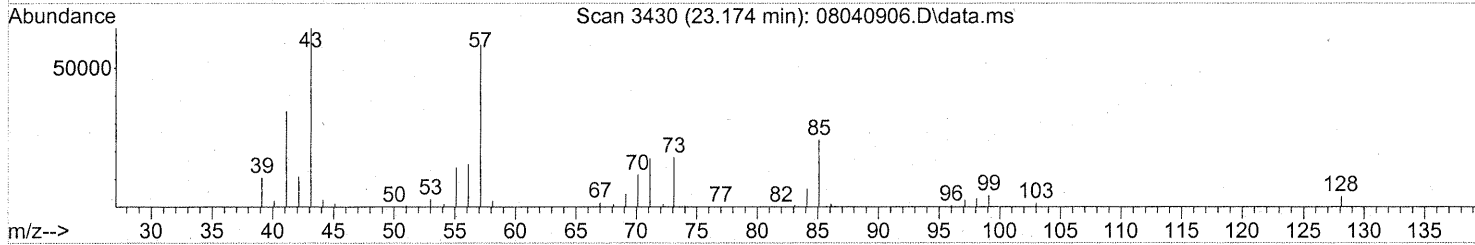
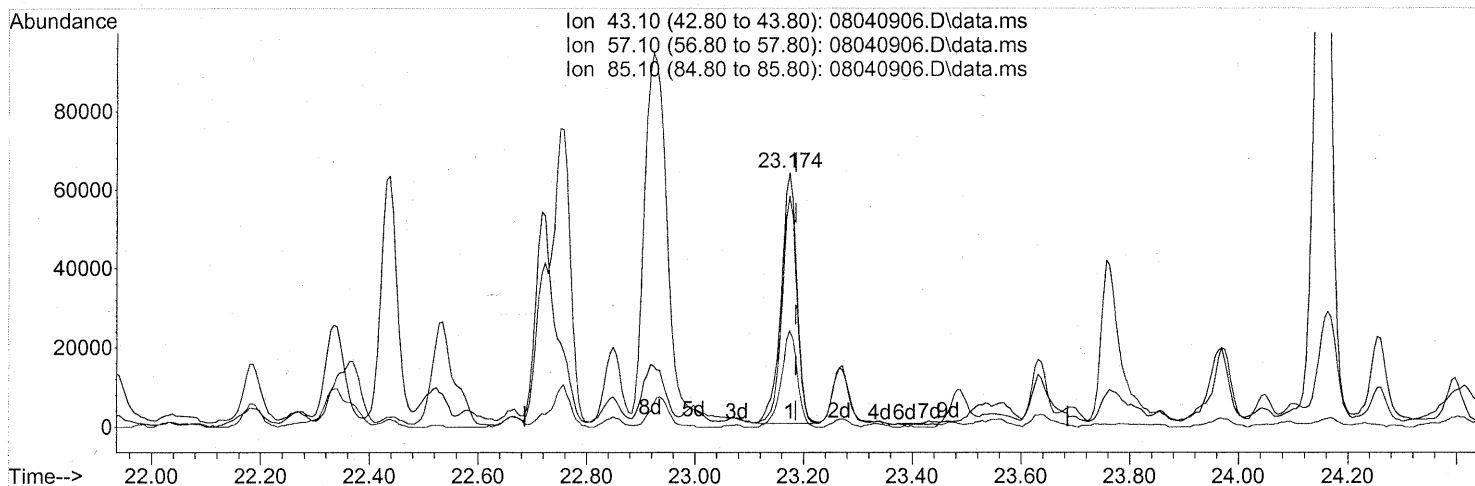
response 444270

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	47.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

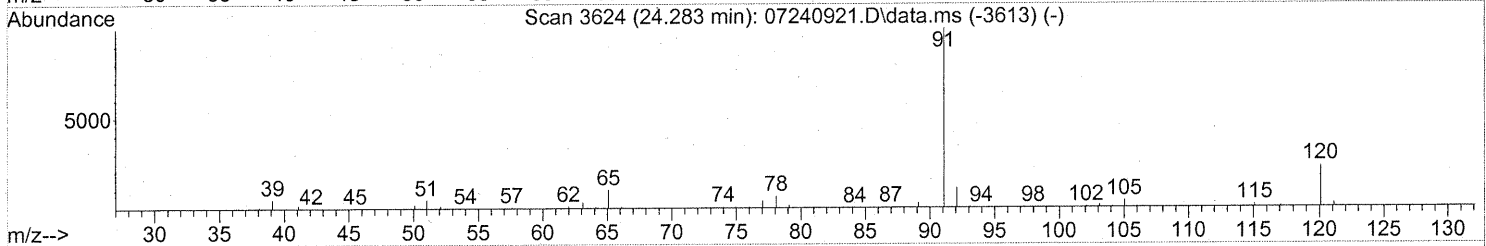
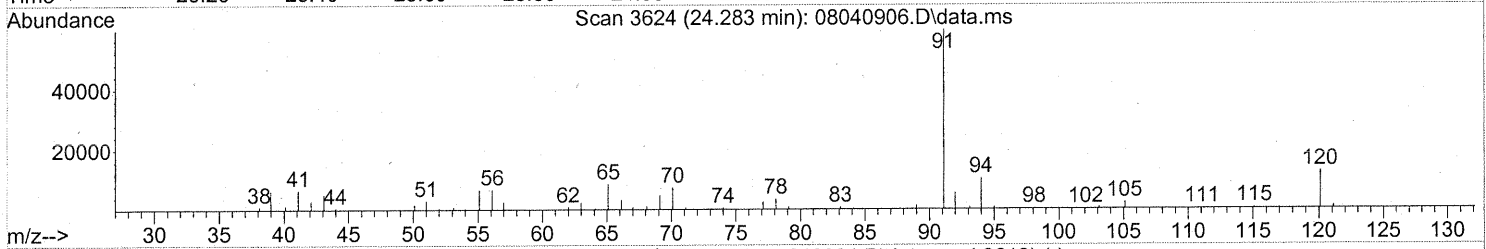
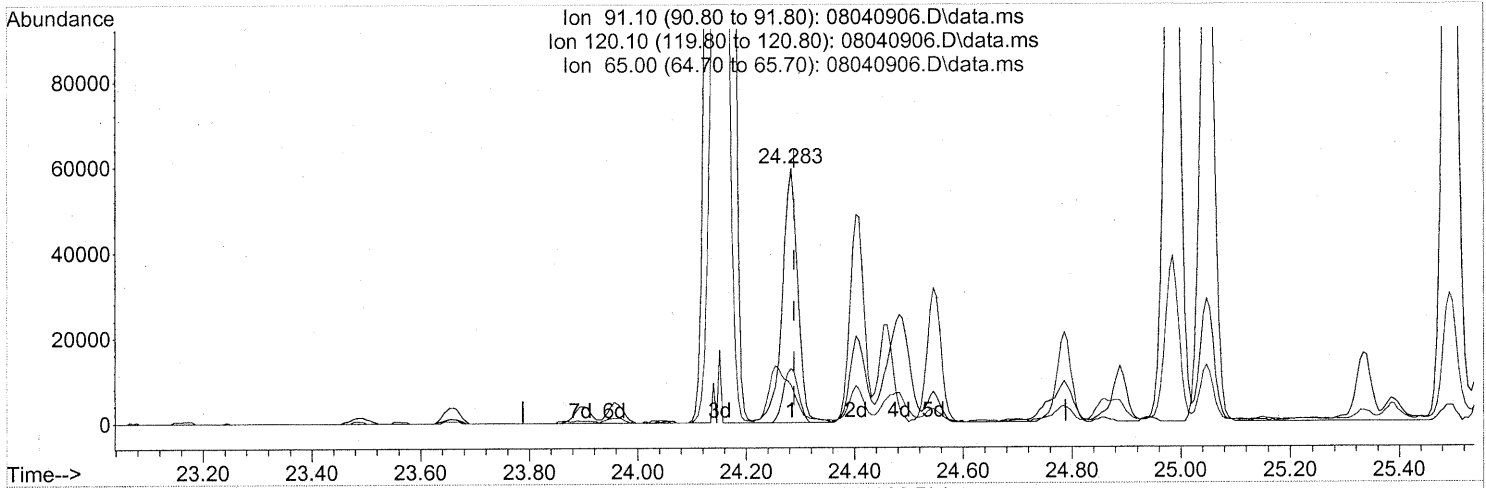
(71) n-Nonane (T)
 23.174min (-0.011) 2.96ng
 response 128666

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	86.08
85.10	38.80	38.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.006) 0.83ng

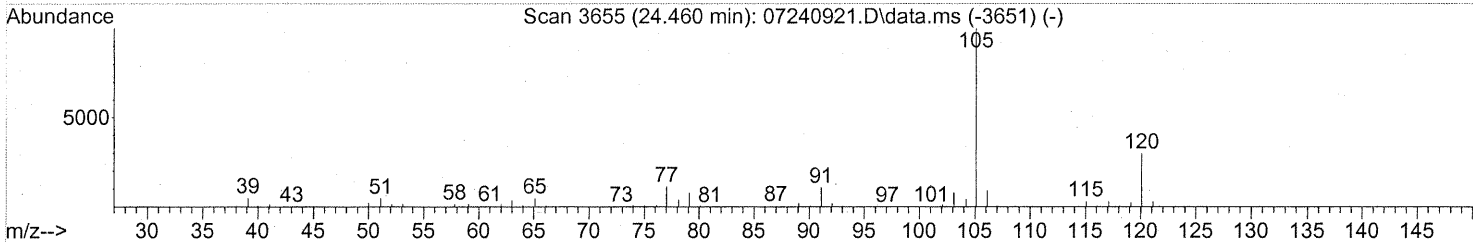
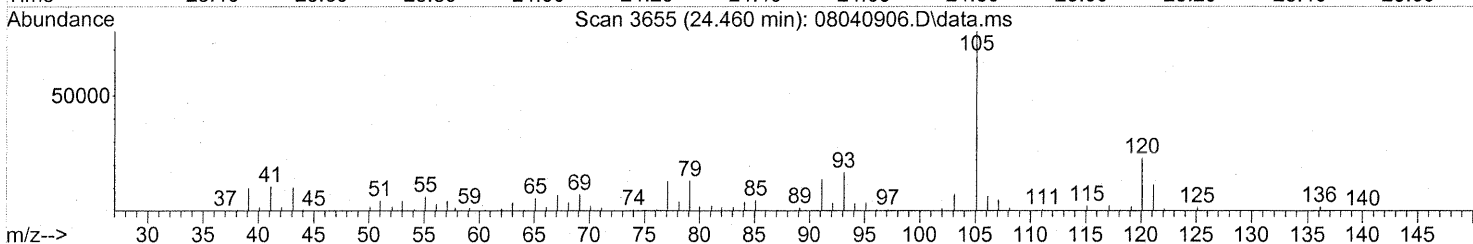
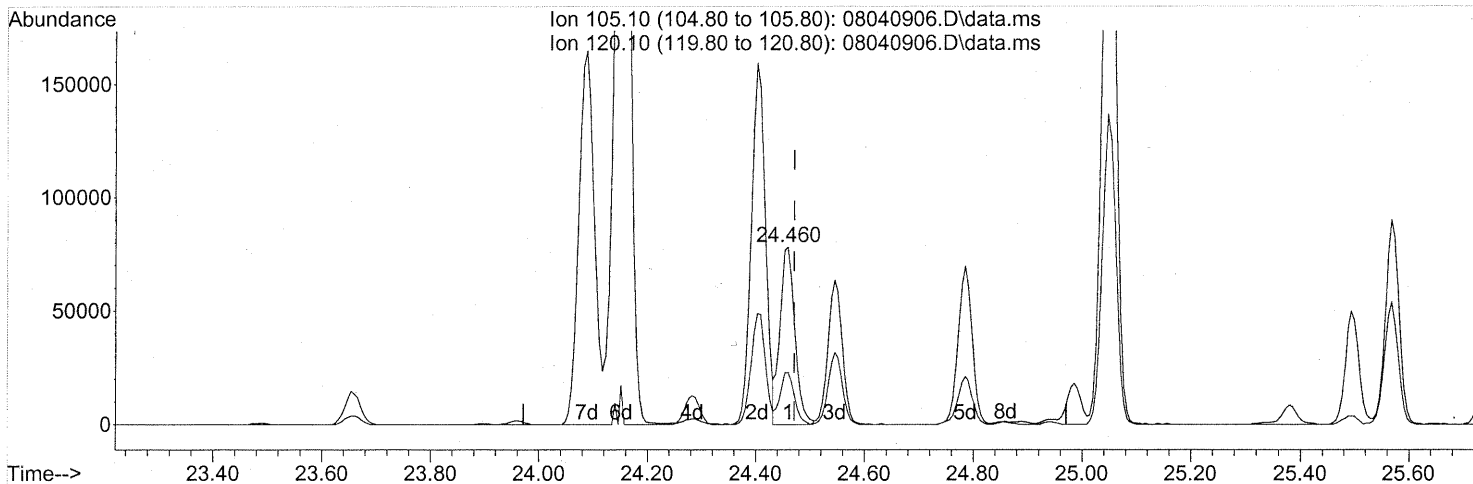
response 117527

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	20.51
65.00	10.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

(78) 4-Ethyltoluene (T)

24.460min (-0.011) 1.32ng

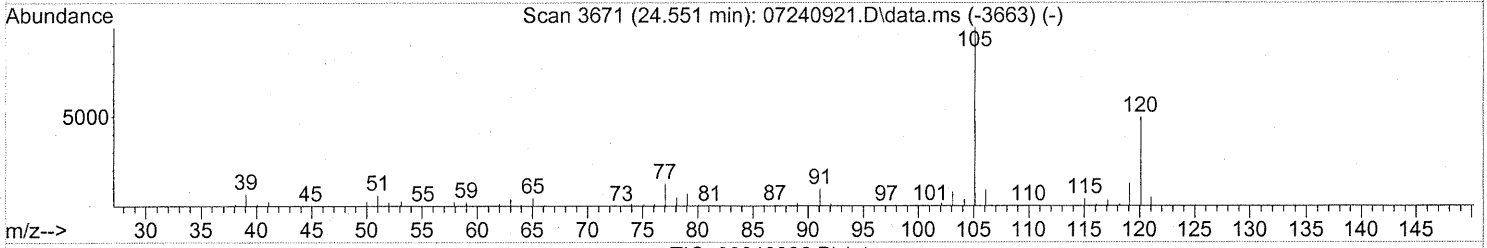
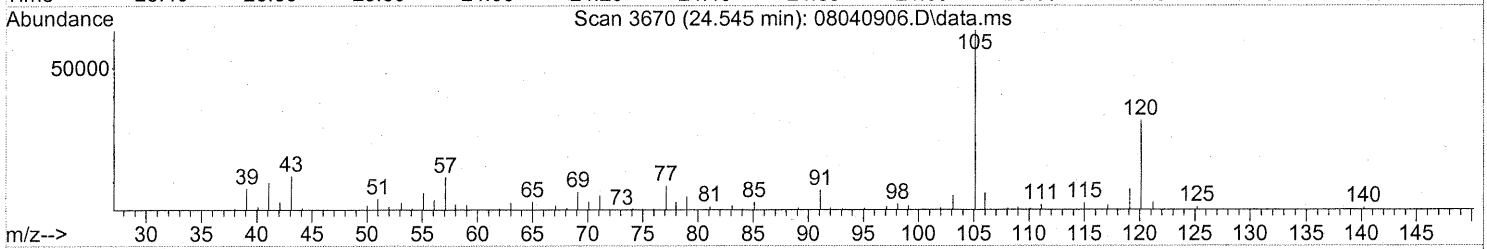
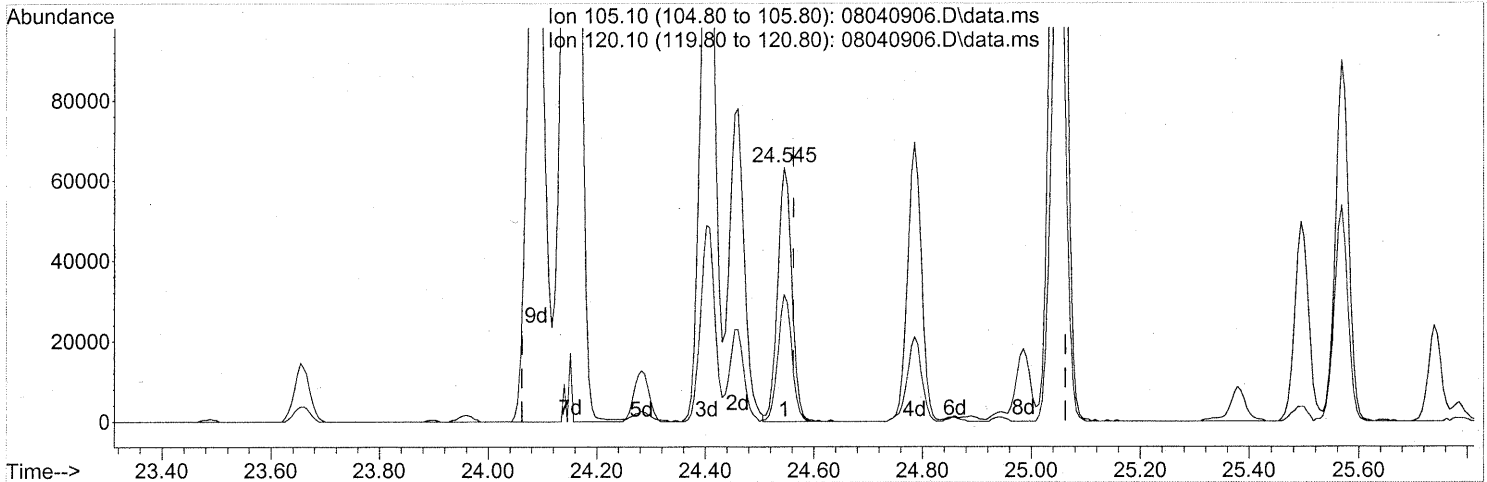
response 148259

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	28.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

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

24.545min (-0.017) 1.23ng

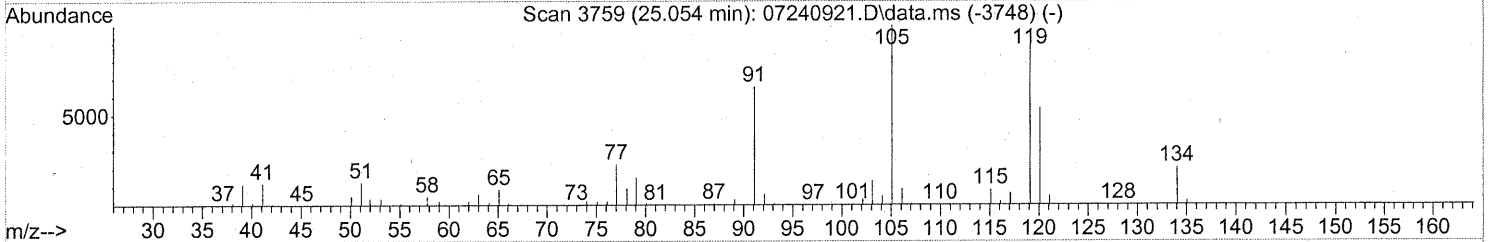
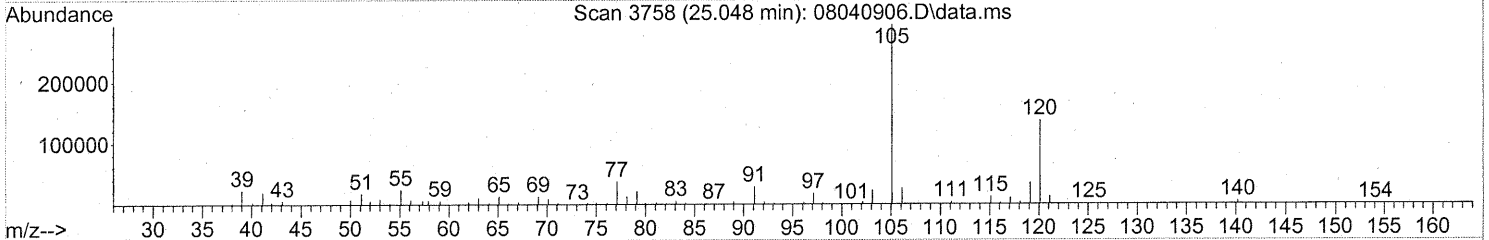
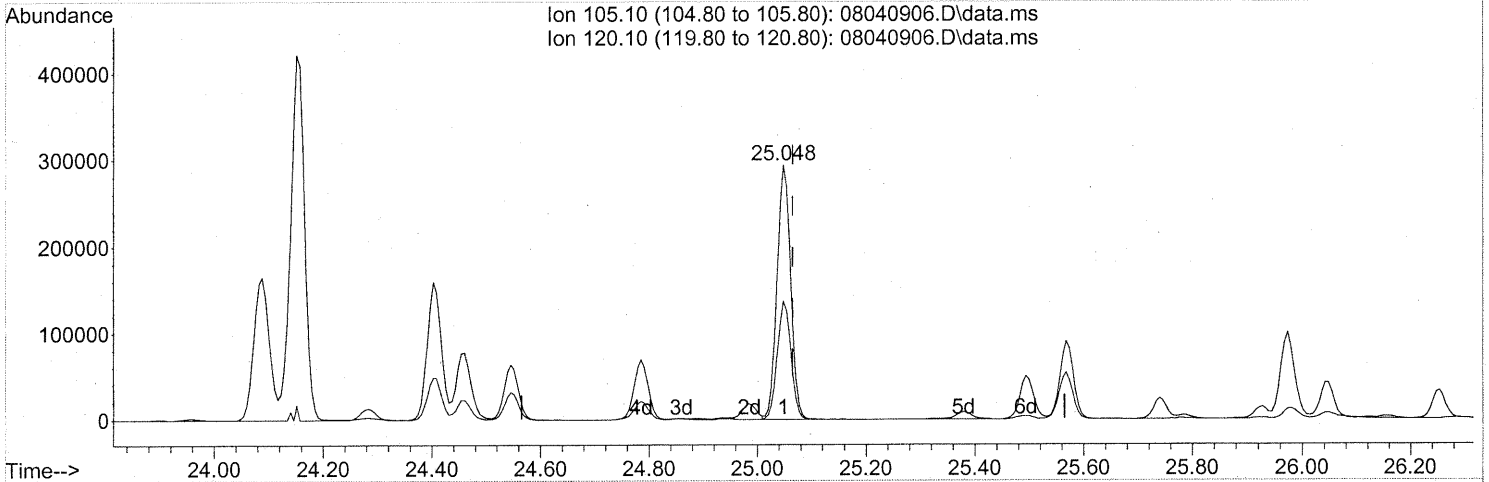
response 115354

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	48.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040906.D\data.ms

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

25.048min (-0.017) 4.91ng

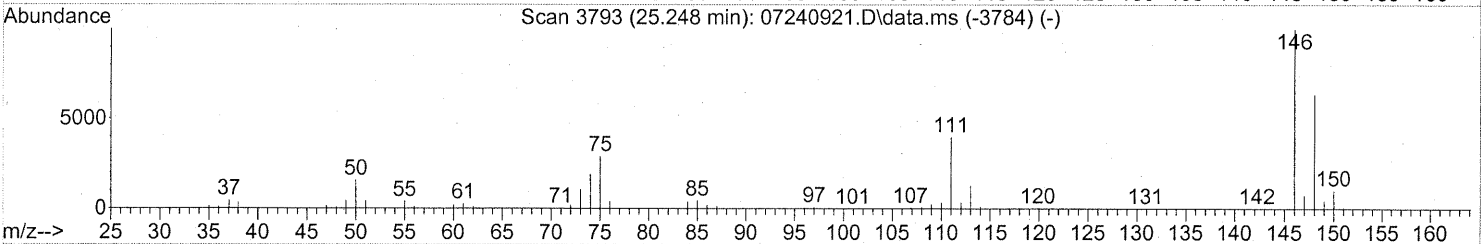
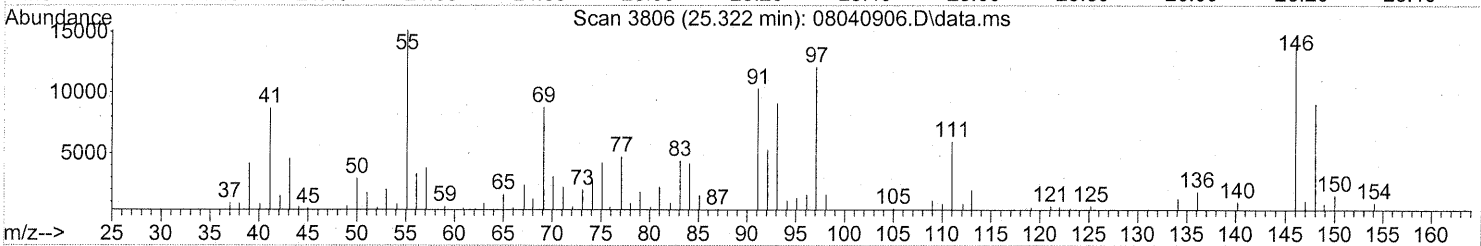
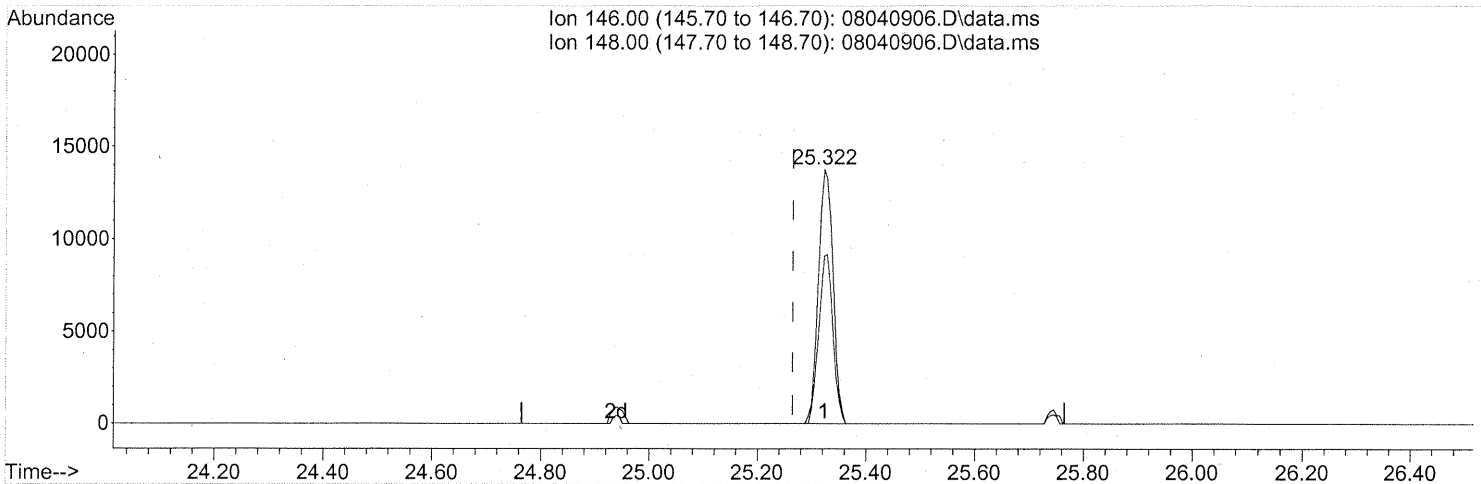
response 513279

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 11:58:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.322min (+0.057) 0.47ng

response 25733

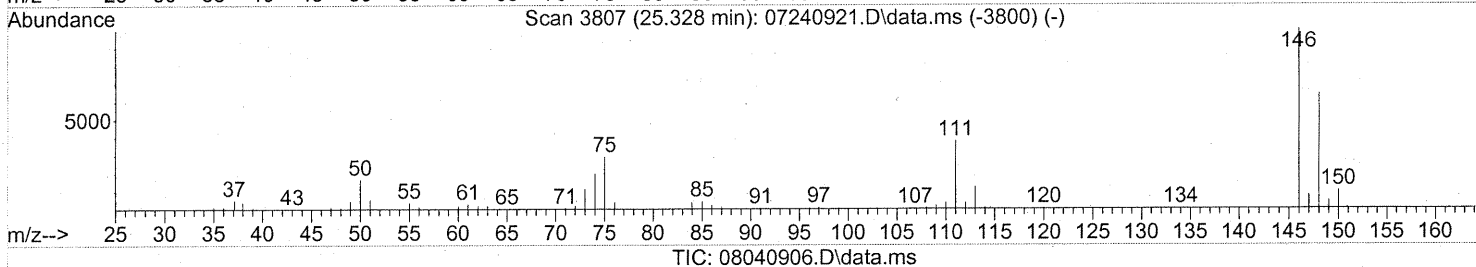
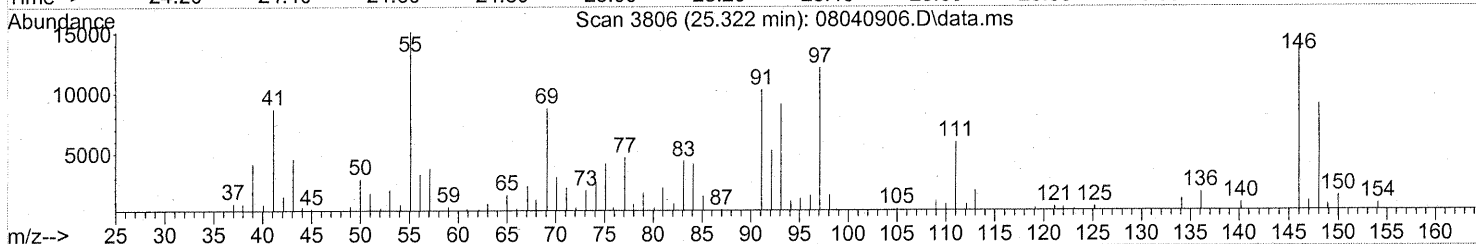
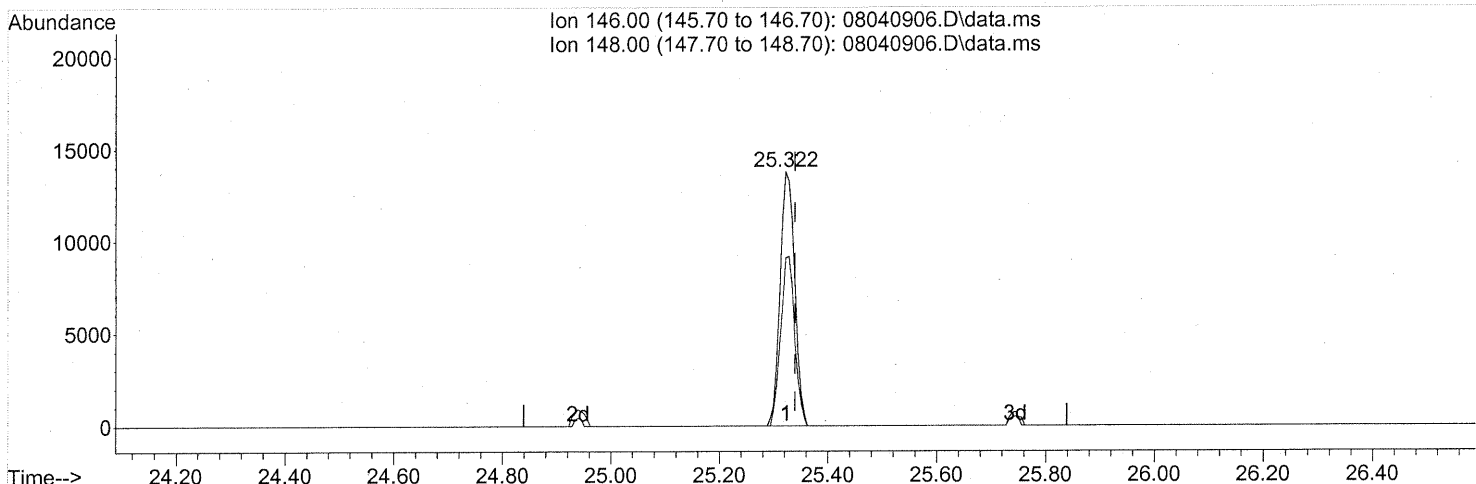
Ion	Exp%	Act%
146.00	100	100
148.00	63.60	64.02
0.00	0.00	0.00
0.00	0.00	0.00

FP
Em 8/6/09
11/8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.322min (-0.017) 0.45ng

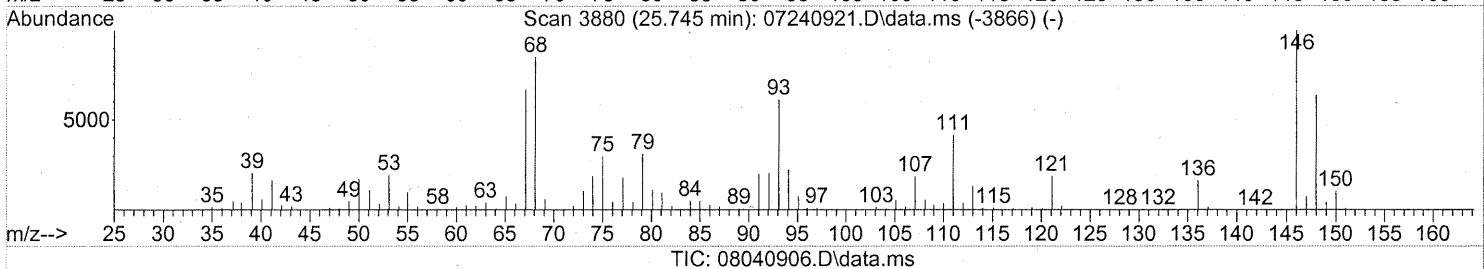
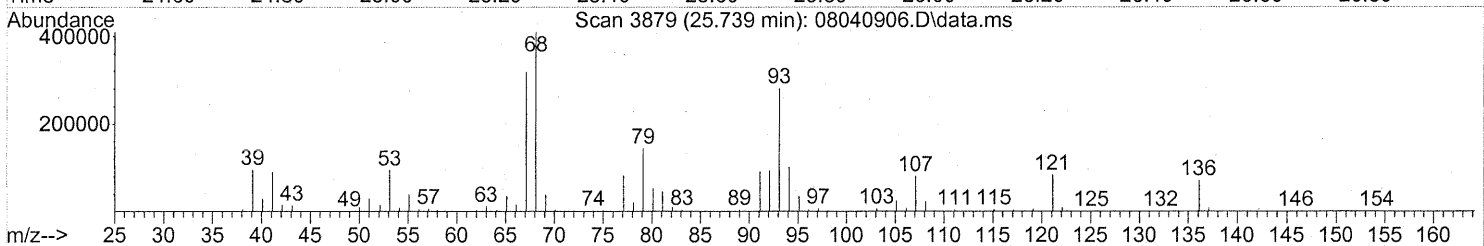
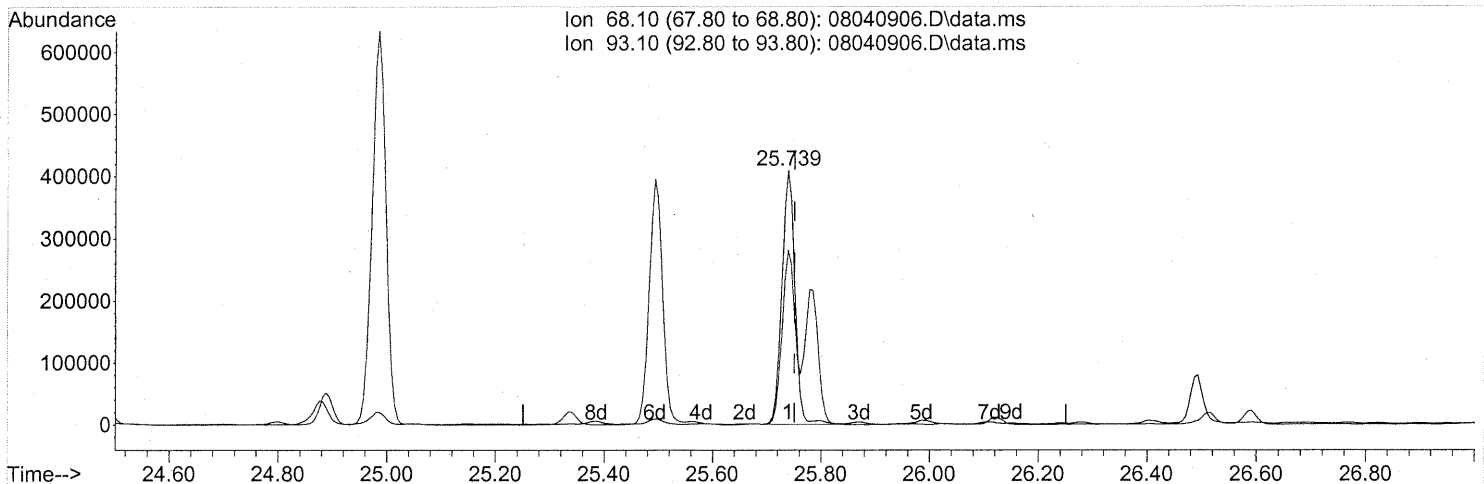
response 25733

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	64.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040906.D
 Acq On : 4 Aug 2009 10:19
 Operator : EM
 Sample : P0902624-001 (1000ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



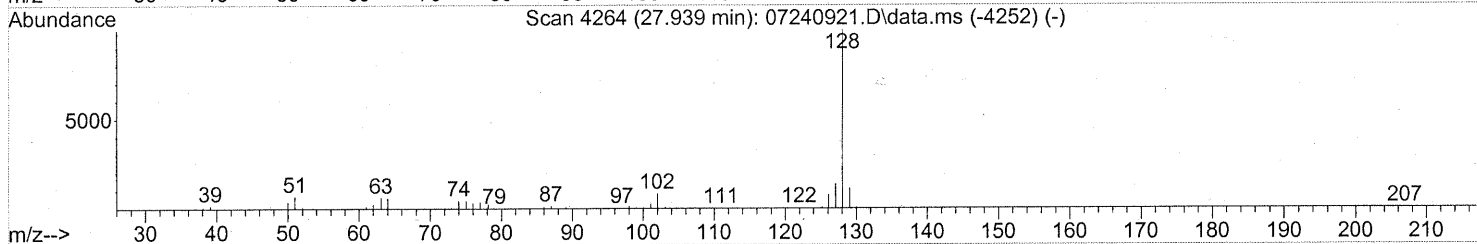
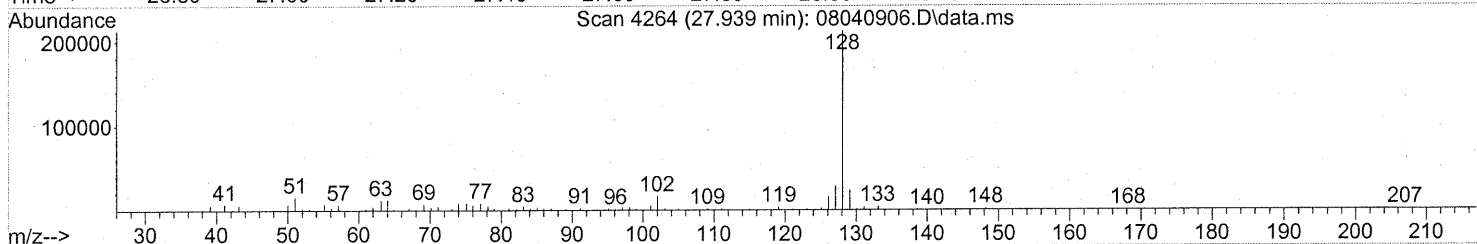
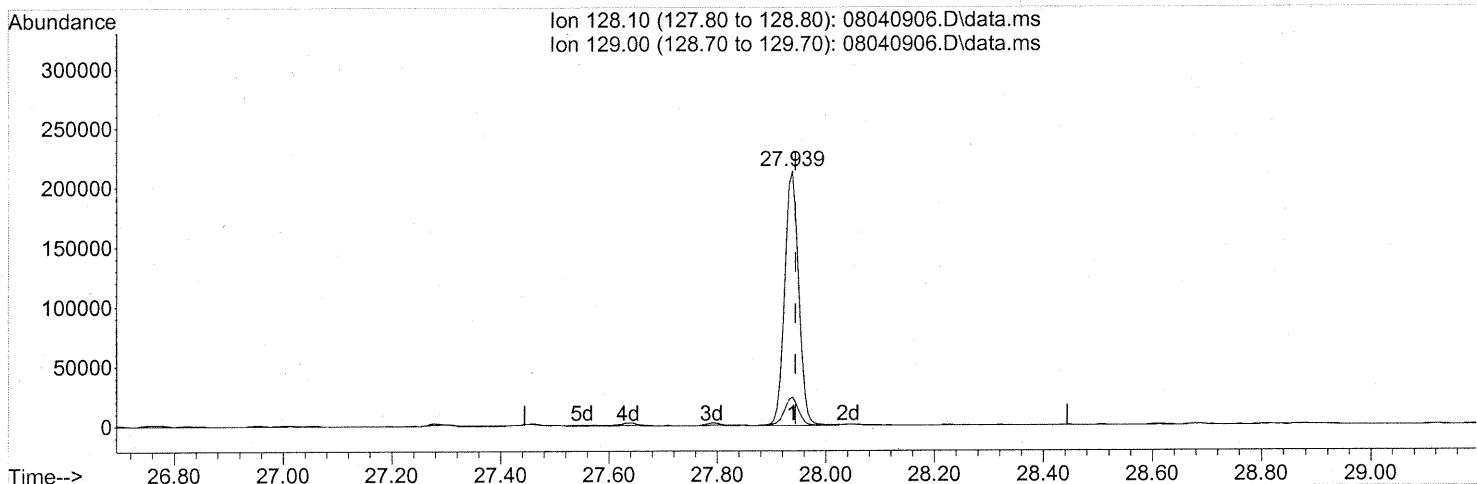
(91) d-Limonene (T)
 25.739min (-0.012) 16.23ng
 response 673509

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	70.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040906.D
Acq On : 4 Aug 2009 10:19
Operator : EM
Sample : P0902624-001 (1000ml)
Misc : Environmental H & E 99441
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 11:36:35 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040906.D\data.ms

(95) Naphthalene (T)

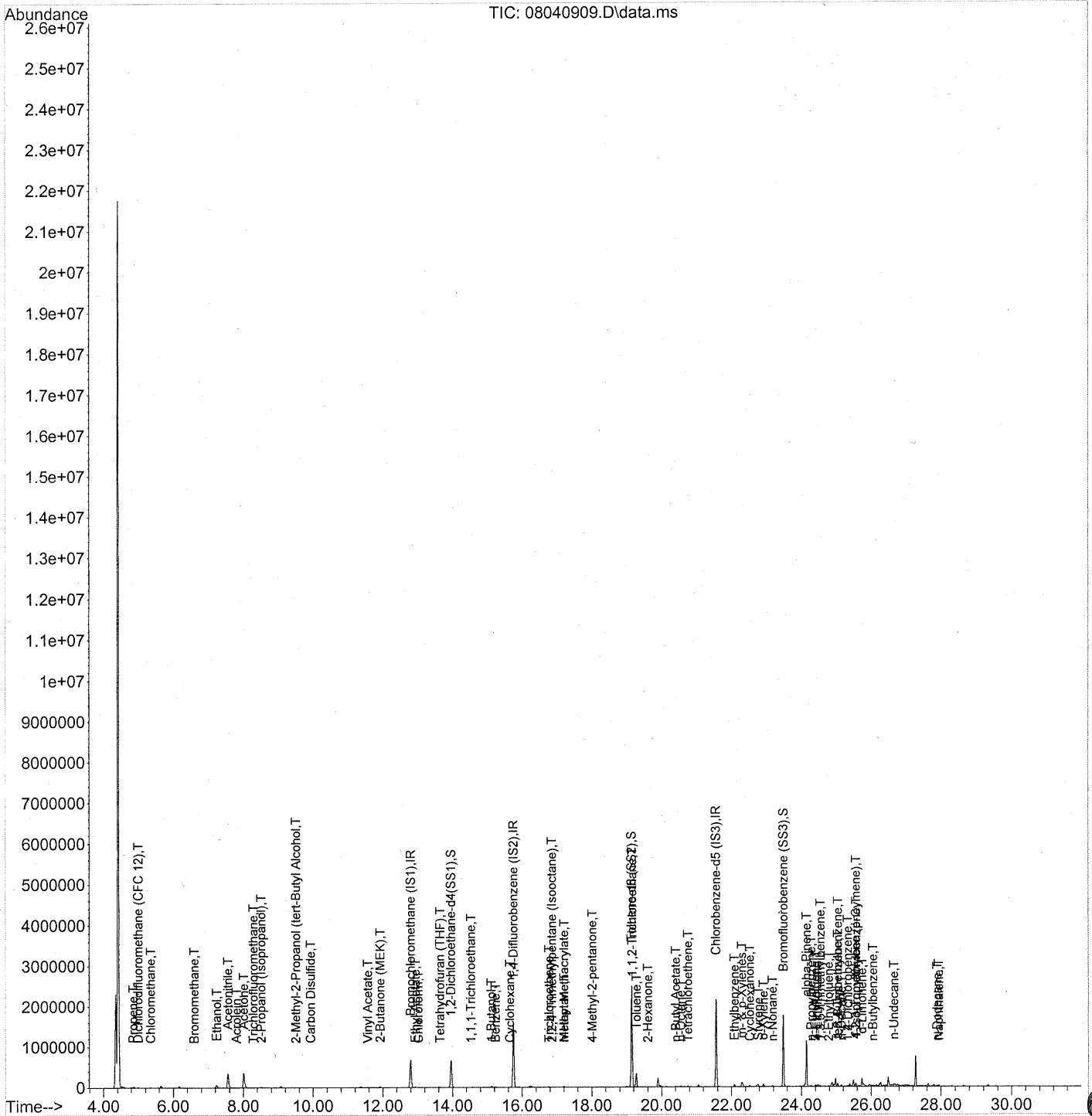
27.939min (-0.006) 3.00ng

response 384704

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	11.20
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040909.D
 Acq On : 4 Aug 2009 12:29
 Operator : EM
 Sample : P0902624-001 dil (100ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 13:13:52 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040909.D
 Acq On : 4 Aug 2009 12:29
 Operator : EM
 Sample : P0902624-001 dil (100ml)
 Misc : Environmental H & E 99441 ✓
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 13:13:52 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	374766	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1874977	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	874033	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	658528	24.837	ng	-0.03 ✓
Spiked Amount	25.000		Recovery	=	99.36%	
57) Toluene-d8 (SS2)	19.14	98	2177967	25.187	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	100.76%	
73) Bromofluorobenzene (SS3)	23.49	174	630590	24.257	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	97.04%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	5903	0.250	ng	# 33
3) Dichlorodifluoromethan...	4.99	85	14138	0.300	ng	94
4) Chloromethane	5.35	50	5051	0.143	ng	89
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	5.80	62	334	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.60	94	1253	0.056	ng	# 77
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.24	45	110651	7.053	ng	98
11) Acetonitrile	7.56	41	544630	15.354	ng	99
12) Acrolein	7.80	56	5431	0.475	ng	91
13) Acetone	8.01	58	206302	11.562	ng	99
14) Trichlorofluoromethane	8.29	101	6040	0.147	ng	91
15) 2-Propanol (Isopropanol)	8.51	45	32830	0.699	ng	88
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.50	59	4099	0.078	ng	# 65
19) Methylene Chloride	9.52	84	472	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	9.93	76	13735	0.171	ng	90
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	11.57	86	1165	0.274	ng	# 1
27) 2-Butanone (MEK)	11.93	72	10297	0.757	ng	# 79
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.94	61	1869	0.210	ng	# 75
31) n-Hexane	12.93	57	2038	N.D.		

67

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040909.D
 Acq On : 4 Aug 2009 12:29
 Operator : EM
 Sample : P0902624-001 dil (100ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 13:13:52 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	2561	0.068	ng	99
34) Tetrahydrofuran (THF)	13.64	72	1148	0.090	ng #	1
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	14.53	97	1998	0.058	ng	80
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.11	56	25642	1.101	ng	83
41) Benzene	15.23	78	12257	0.123	ng	94
42) Carbon Tetrachloride	15.45	117	996	N.D.		
43) Cyclohexane	15.65	84	3235	0.087	ng #	77
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	16.77	130	6272	0.245	ng	94
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	10058	0.104	ng	97
50) Methyl Methacrylate	17.20	100	1302	0.139	ng #	1
51) n-Heptane	17.20	71	4803	0.198	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.02	58	1205	0.064	ng #	44
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	180634	8.599	ng #	8
58) Toluene	19.28	91	315339	2.979	ng	99
59) 2-Hexanone	19.61	43	3531	0.078	ng #	45
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	15016	0.297	ng	92
63) n-Octane	20.56	57	3852	0.186	ng	93
64) Tetrachloroethene	20.75	166	5416	0.194	ng	98
65) Chlorobenzene	21.65	112	907	N.D.		
66) Ethylbenzene	22.09	91	48565	0.422	ng	99
67) m- & p-Xylenes	22.30	91	105397	1.110	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.77	104	20850	0.298	ng	99
70) o-Xylene	22.92	91	37907	0.401	ng	98
71) n-Nonane	23.17	43	9745	0.211	ng	91
72) 1,1,2,2-Tetrachloroethane	22.52	83	739	N.D.		
74) Cumene	23.66	105	3163	N.D.		
75) alpha-Pinene	24.15	93	516240	8.602	ng	97
76) n-Propylbenzene	24.28	91	11091	0.073	ng	94
77) 3-Ethyltoluene	24.40	105	25154	0.211	ng	95
78) 4-Ethyltoluene	24.46	105	13718	0.115	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	10334	0.104	ng	94

68

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040909.D
 Acq On : 4 Aug 2009 12:29
 Operator : EM
 Sample : P0902624-001 dil (100ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 13:13:52 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

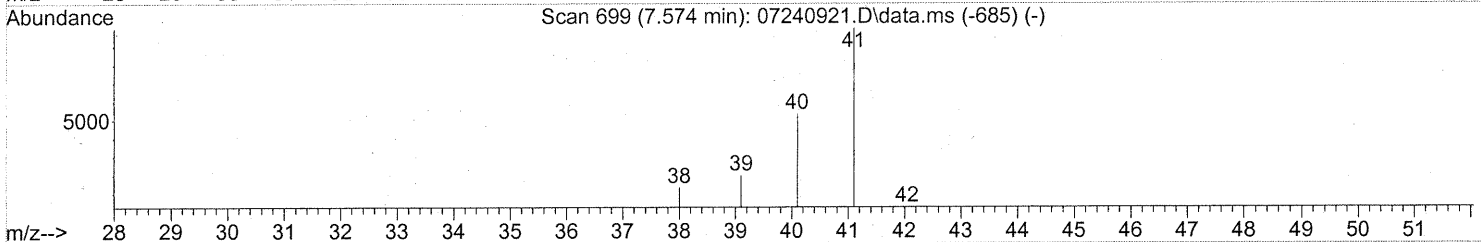
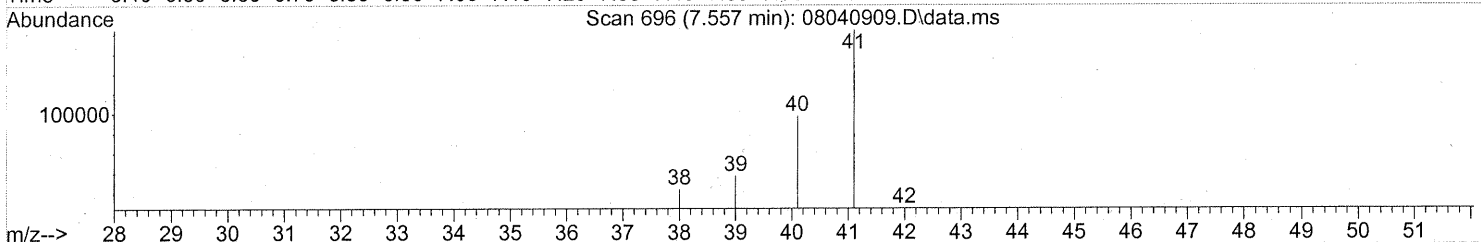
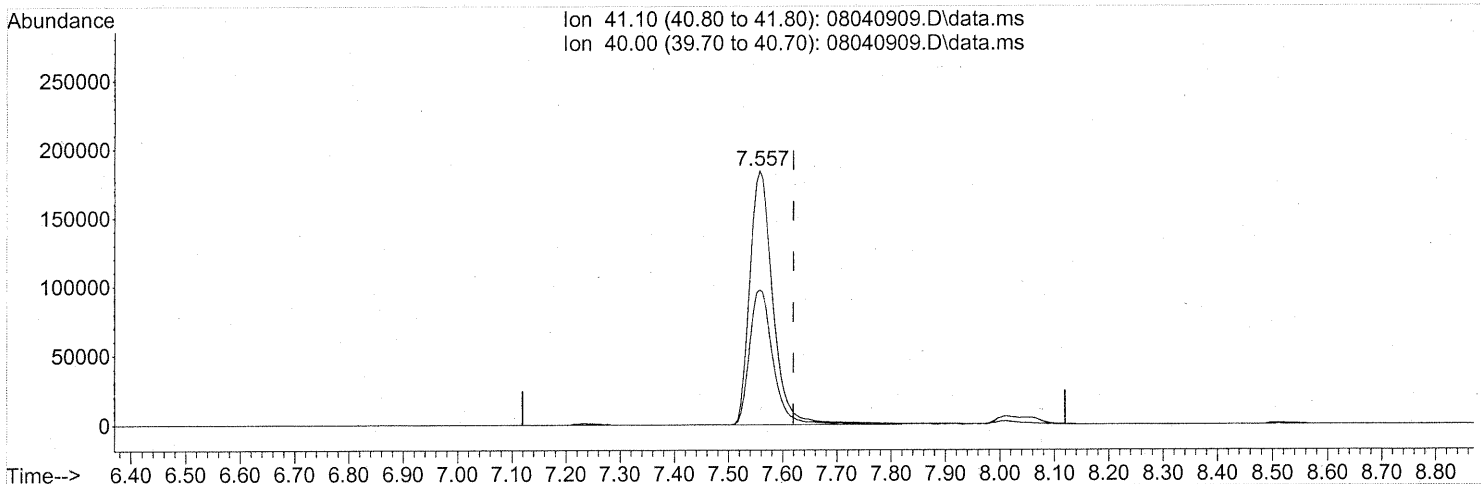
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	480	N.D.		
81) 2-Ethyltoluene	24.79	105	12507	0.100	ng	97
82) 1,2,4-Trimethylbenzene	25.05	105	44341	0.399	ng	87
83) n-Decane	25.15	57	17796	0.332	ng	94
84) Benzyl Chloride	25.21	91	2025	N.D.		
85) 1,3-Dichlorobenzene	25.26	146	253	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	3180	0.052	ng	79
87) sec-Butylbenzene	25.38	105	1614	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	29479	0.211	ng	96
89) 1,2,3-Trimethylbenzene	25.57	105	13130	0.116	ng	86
90) 1,2-Dichlorobenzene	25.33	146	3180	0.052	ng	80
91) d-Limonene	25.74	68	48755	1.105	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	21732	0.396	ng	88
94) 1,2,4-Trichlorobenzene	27.80	180	591	N.D.		
95) Naphthalene	27.94	128	31151	0.229	ng	96
96) n-Dodecane	27.89	57	6937	0.118	ng	96
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.52	55	11628	0.364	ng	95
99) tert-Butylbenzene	25.05	119	6241	0.056	ng	# 54
100) n-Butylbenzene	26.05	91	5825	0.053	ng	# 19

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040909.D
 Acq On : 4 Aug 2009 12:29
 Operator : EM
 Sample : P0902624-001 dil (100ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 13:13:52 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040909.D\data.ms

(11) Acetonitrile (T)

7.557min (-0.063) 15.35ng

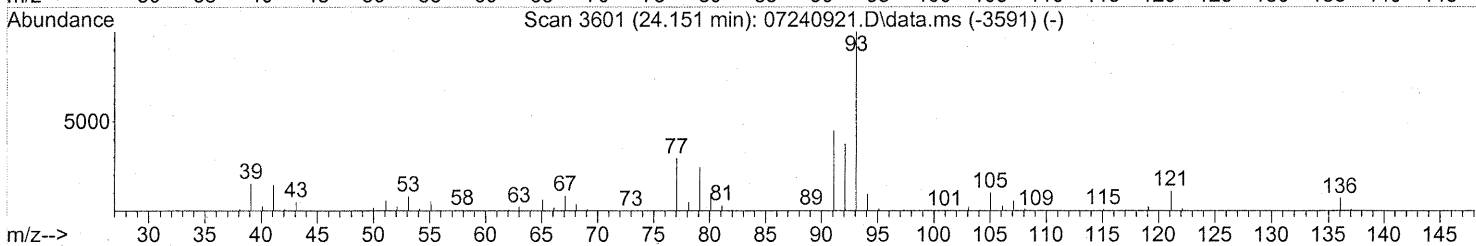
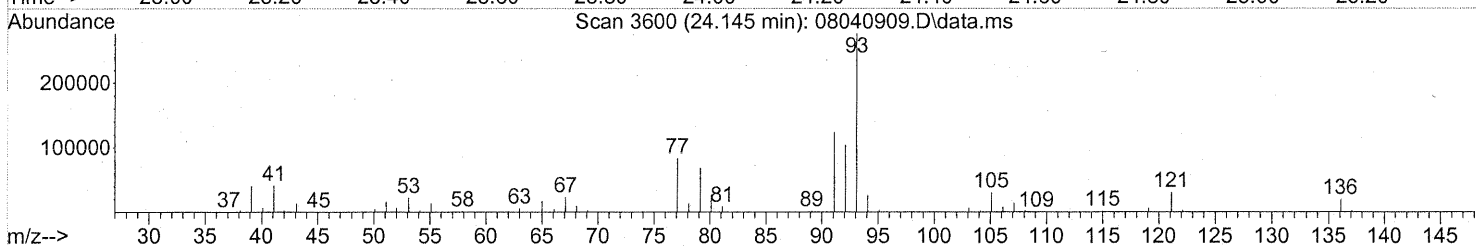
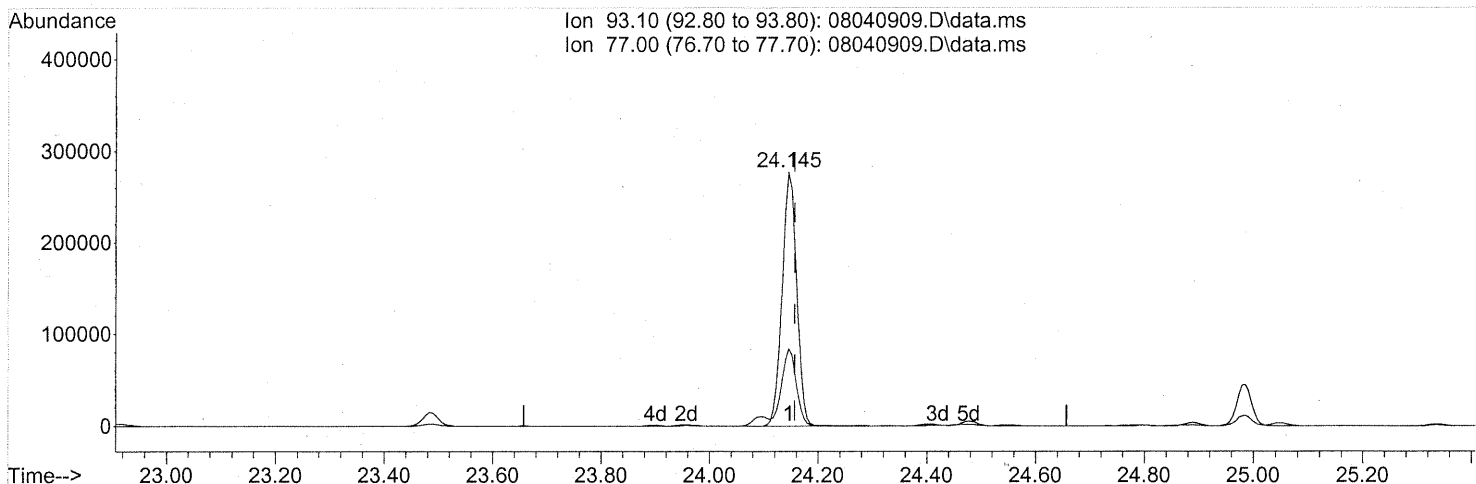
response 544630

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	54.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040909.D
 Acq On : 4 Aug 2009 12:29
 Operator : EM
 Sample : P0902624-001 dil (100ml)
 Misc : Environmental H & E 99441
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 13:13:52 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040909.D\data.ms

(75) alpha-Pinene (T)

24.145min (-0.011) 8.60ng

response 516240

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	30.87
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, Incorporated

Client Sample ID: 99442

Client Project ID: 16512

CAS Project ID: P0902624

CAS Sample ID: P0902624-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01287

Date Collected: 7/30/09

Date Received: 7/31/09

Date Analyzed: 8/4/09

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.6	0.62	1.5	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.9	0.62	0.79	0.13	
74-87-3	Chloromethane	0.74	0.12	0.36	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.089	
75-01-4	Vinyl Chloride	0.19	0.12	0.075	0.049	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	0.60	0.12	0.16	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	130	6.2	67	3.3	
75-05-8	Acetonitrile	170	0.62	100	0.37	D
107-02-8	Acrolein	7.8	0.62	3.4	0.27	
67-64-1	Acetone	190	6.2	81	2.6	
75-69-4	Trichlorofluoromethane	2.1	0.12	0.37	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	9.2	0.62	3.8	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.51	0.12	0.066	0.016	
75-15-0	Carbon Disulfide	2.2	0.62	0.71	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	11	6.2	3.2	1.8	
78-93-3	2-Butanone (MEK)	12	0.62	3.9	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.

D = The reported result is from a dilution.

Verified By: _____

Date: 8/14/09

72

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99442

Client Project ID: 16512

CAS Project ID: P0902624

CAS Sample ID: P0902624-002

Test Code: EPA TO-15

Date Collected: 7/30/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 7/31/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/4/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: AC01287

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	4.9	0.62	1.4	0.17	
110-54-3	n-Hexane	0.77	0.62	0.22	0.18	
67-66-3	Chloroform	1.0	0.12	0.21	0.025	
109-99-9	Tetrahydrofuran (THF)	1.4	0.62	0.47	0.21	
107-06-2	1,2-Dichloroethane	0.38	0.12	0.094	0.031	
71-55-6	1,1,1-Trichloroethane	0.88	0.12	0.16	0.023	
71-43-2	Benzene	1.5	0.12	0.48	0.039	
56-23-5	Carbon Tetrachloride	0.61	0.12	0.097	0.020	
110-82-7	Cyclohexane	1.3	0.62	0.37	0.18	
78-87-5	1,2-Dichloropropane	0.15	0.12	0.032	0.027	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.019	
79-01-6	Trichloroethene	3.7	0.12	0.68	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	1.0	0.62	0.25	0.15	
142-82-5	n-Heptane	3.0	0.62	0.73	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	1.6	0.62	0.38	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	44	0.62	12	0.16	
591-78-6	2-Hexanone	1.5	0.62	0.36	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	4.7	0.62	0.98	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: 8/14/09

TO15scan.xls - 75 Compounds - PageNo.:

73

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99442
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P0902624-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01287

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.7	0.62	0.58	0.13	
127-18-4	Tetrachloroethene	2.7	0.12	0.39	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	6.3	0.62	1.4	0.14	
179601-23-1	m,p-Xylenes	17	0.62	3.9	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	4.7	0.62	1.1	0.15	
95-47-6	o-Xylene	6.1	0.62	1.4	0.14	
111-84-2	n-Nonane	3.3	0.62	0.63	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.62	ND	0.13	
80-56-8	alpha-Pinene	110	0.62	20	0.11	D
103-65-1	n-Propylbenzene	1.0	0.62	0.20	0.13	
622-96-8	4-Ethyltoluene	1.6	0.62	0.33	0.13	
108-67-8	1,3,5-Trimethylbenzene	1.5	0.62	0.31	0.13	
95-63-6	1,2,4-Trimethylbenzene	6.0	0.62	1.2	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.021	
106-46-7	1,4-Dichlorobenzene	0.58	0.12	0.096	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.021	
5989-27-5	d-Limonene	18	0.62	3.2	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.12	ND	0.017	
91-20-3	Naphthalene	3.8	0.25	0.73	0.047	
87-68-3	Hexachlorobutadiene	ND	0.12	ND	0.012	

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: _____

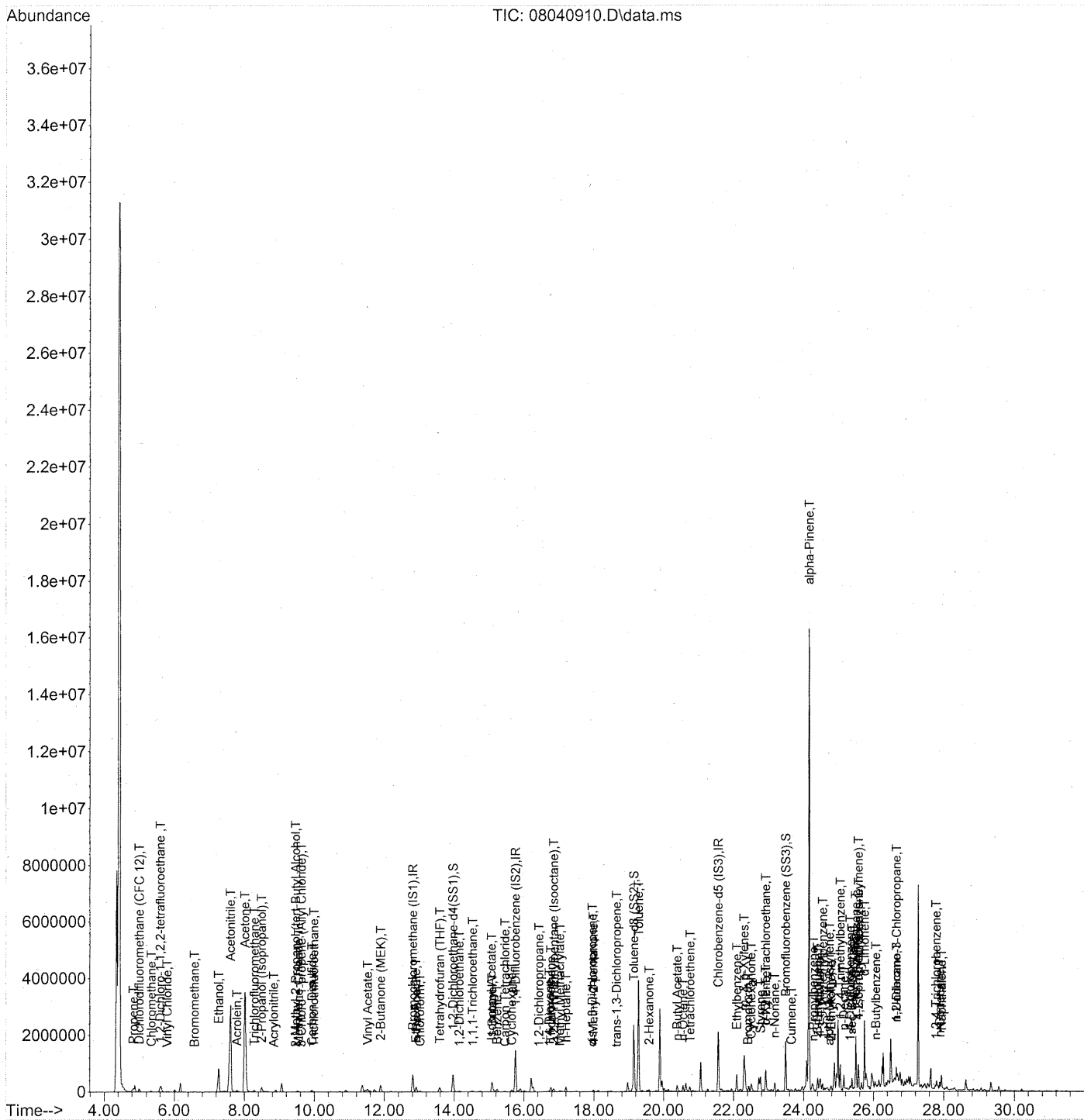
Date: _____

8/14/09

74

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442 ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	336307	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1712444	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	846778	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	593269	24.935	ng	-0.02 ✓
Spiked Amount	25.000			Recovery =	99.72%	
57) Toluene-d8 (SS2)	19.15	98	2032130	24.257	ng	-0.01 ✓
Spiked Amount	25.000			Recovery =	97.04%	
73) Bromofluorobenzene (SS3)	23.49	174	616575	24.481	ng	0.00 ✓
Spiked Amount	25.000			Recovery =	97.92%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	43940m	2.071	ng	
3) Dichlorodifluoromethan...	5.00	85	132647	3.133	ng	99
4) Chloromethane	5.35	50	18840	0.594	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1617	0.068	ng	# 43
6) Vinyl Chloride	5.80	62	5199	0.154	ng	89
7) 1,3-Butadiene	6.08	54	639	N.D.		
8) Bromomethane	6.58	94	9718	0.487	ng	97
9) Chloroethane	6.93	64	108	N.D.		
10) Ethanol	7.27	45	1437777m	102.132	ng	
11) Acetonitrile	7.61	41	5483144	172.254	ng	see Dil 100
12) Acrolein	7.79	56	64190	6.255	ng	98
13) Acetone	8.02	58	2475267	154.586	ng	95
14) Trichlorofluoromethane	8.29	101	61128	1.657	ng	96
15) 2-Propanol (Isopropanol)	8.49	45	313682m	7.445	ng	
16) Acrylonitrile	8.84	53	4654	0.217	ng	79
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.46	59	21389	0.451	ng	86
19) Methylene Chloride	9.54	84	4606	0.217	ng	93
20) 3-Chloro-1-propene (Al...	9.62	41	1884	0.082	ng	# 34
21) Trichlorotrifluoroethane	9.98	151	6848	0.409	ng	# 82
22) Carbon Disulfide	9.93	76	129513	1.793	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.38	63	1395	N.D.		
25) Methyl tert-Butyl Ether	11.42	73	119	N.D.		
26) Vinyl Acetate	11.53	86	34872	9.131	ng	# 34
27) 2-Butanone (MEK)	11.90	72	114310	9.359	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	234	N.D.		
30) Ethyl Acetate	12.91	61	31477	3.935	ng	99
31) n-Hexane	12.92	57	22964	0.621	ng	97

76

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	27887	0.830 ng		97
34) Tetrahydrofuran (THF)	13.59	72	12737	1.107 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.14	62	8301	0.308 ng		93
38) 1,1,1-Trichloroethane	14.53	97	22356	0.712 ng		99
39) Isopropyl Acetate	15.07	61	2291	0.184 ng	#	1
40) 1-Butanol	15.09	56	322606	15.162 ng	#	78
41) Benzene	15.23	78	113994	1.248 ng		99
42) Carbon Tetrachloride	15.46	117	13189	0.492 ng		97
43) Cyclohexane	15.65	84	35451	1.038 ng		97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.43	63	2286	0.119 ng		91
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	16.77	130	68852	2.950 ng		99
48) 1,4-Dioxane	16.73	88	1261	0.082 ng		100
49) 2,2,4-Trimethylpentane...	16.85	57	117884	1.332 ng		97
50) Methyl Methacrylate	17.03	100	7045	0.823 ng		98
51) n-Heptane	17.20	71	53647	2.426 ng		99
52) cis-1,3-Dichloropropene	17.96	75	2788	0.087 ng		85
53) 4-Methyl-2-pentanone	17.99	58	21785	1.260 ng		96
54) trans-1,3-Dichloropropene	18.65	75	2009	0.071 ng		64
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	19.28	91	3661522	35.705 ng		99
59) 2-Hexanone	19.59	43	52424	1.189 ng		84
60) Dibromochloromethane	19.82	129	238	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	184255	3.758 ng		95
63) n-Octane	20.56	57	43903	2.191 ng		97
64) Tetrachloroethene	20.76	166	58490	2.157 ng		99
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	22.09	91	562782	5.047 ng		99
67) m- & p-Xylenes	22.30	91	1245994	13.549 ng		100
68) Bromoform	22.41	173	1372	0.067 ng	#	57
69) Styrene	22.77	104	254841	3.758 ng		99
70) o-Xylene	22.92	91	447275	4.882 ng		98
71) n-Nonane	23.17	43	118432	2.648 ng		96
72) 1,1,2,2-Tetrachloroethane	22.91	83	2427	0.064 ng	#	18
74) Cumene	23.65	105	29495	0.242 ng		100
75) alpha-Pinene	24.15	93	7425883	127.721 ng	See Dil.	100
76) n-Propylbenzene	24.28	91	117647	0.803 ng	#	89
77) 3-Ethyltoluene	24.40	105	289549	2.512 ng		99
78) 4-Ethyltoluene	24.46	105	152435	1.318 ng		96
79) 1,3,5-Trimethylbenzene	24.55	105	116663	1.213 ng		98

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

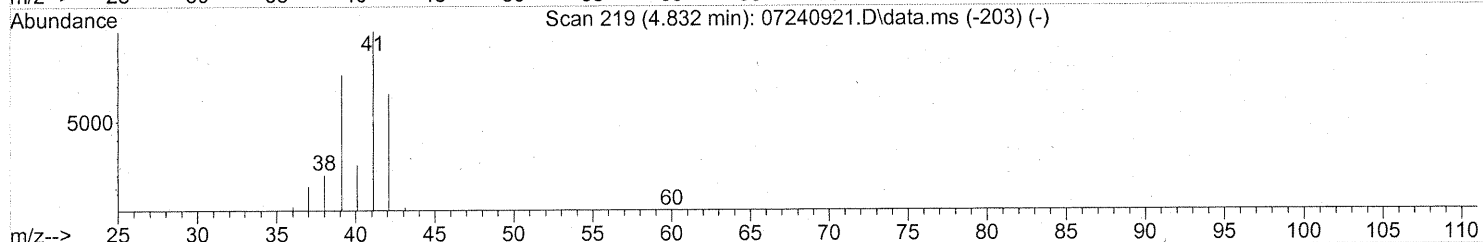
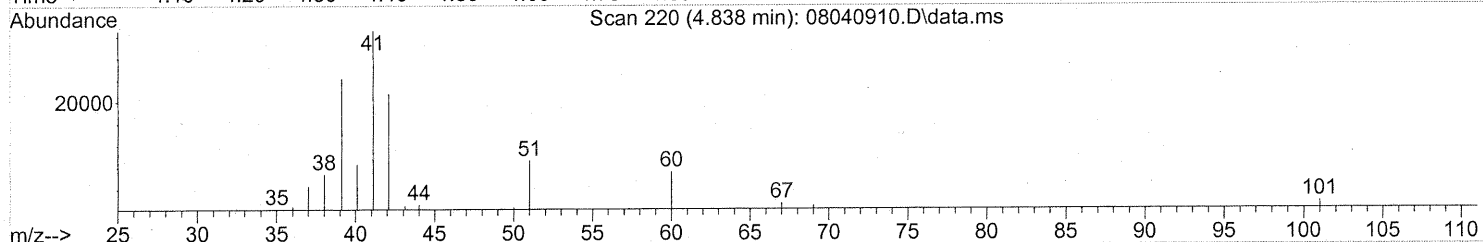
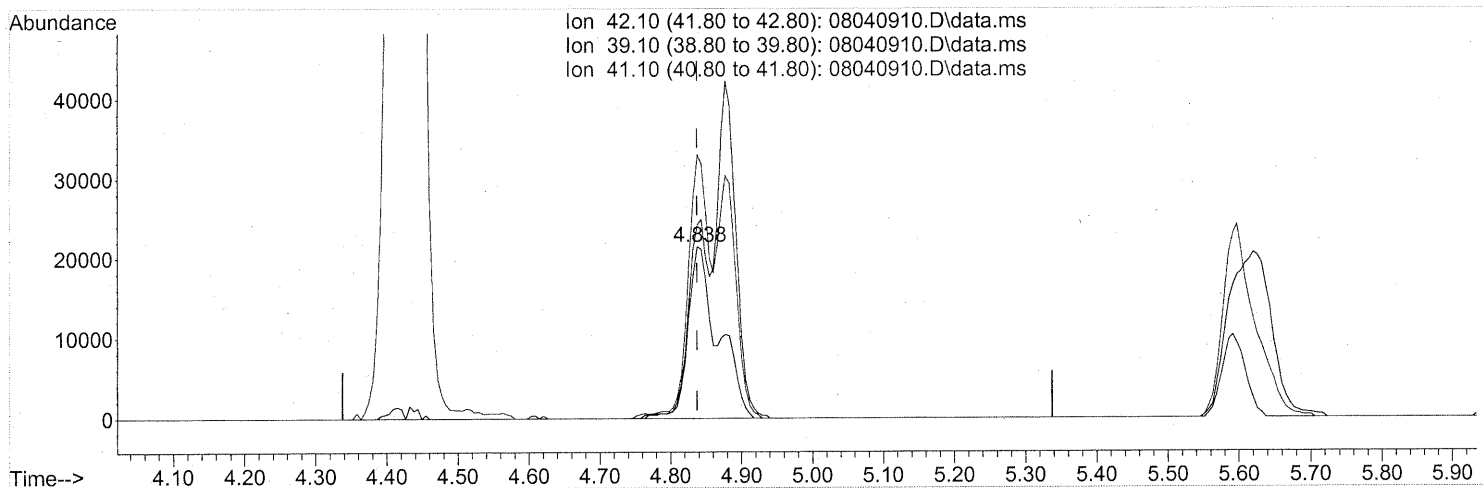
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	4781	0.089	ng	# 37
81) 2-Ethyltoluene	24.79	105	127452	1.055	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	517608	4.810	ng	90
83) n-Decane	25.15	57	204048	3.925	ng	99
84) Benzyl Chloride	25.23	91	1344	N.D.		
85) 1,3-Dichlorobenzene	25.25	146	513	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	27371	0.465	ng	99
87) sec-Butylbenzene	25.38	105	14192	0.105	ng	85
88) 4-Isopropyltoluene (p-...	25.56	119	369217	2.722	ng	97
89) 1,2,3-Trimethylbenzene	25.57	105	157181	1.434	ng	84
90) 1,2-Dichlorobenzene	25.74	146	1461	N.D.		
91) d-Limonene	25.74	68	620247	14.507	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.65	157	881	0.053	ng	# 1
93) n-Undecane	26.65	57	300630	5.648	ng	87
94) 1,2,4-Trichlorobenzene	27.79	180	2622	0.069	ng	# 86
95) Naphthalene	27.94	128	406875	3.081	ng	100
96) n-Dodecane	27.89	57	89825	1.579	ng	93
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	142519	4.607	ng	96
99) tert-Butylbenzene	25.49	119	43180	0.397	ng	91
100) n-Butylbenzene	26.06	91	56555	0.528	ng	# 35

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:04 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(2) Propene (T)

4.838min (-0.000) 2.99ng

response 63359

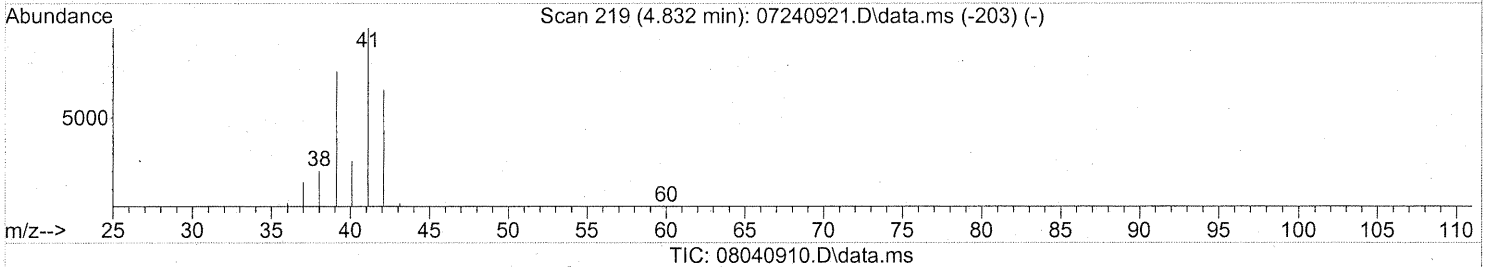
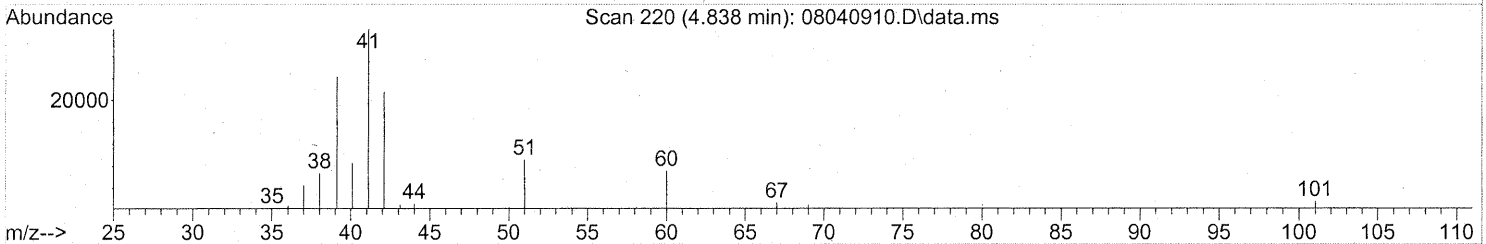
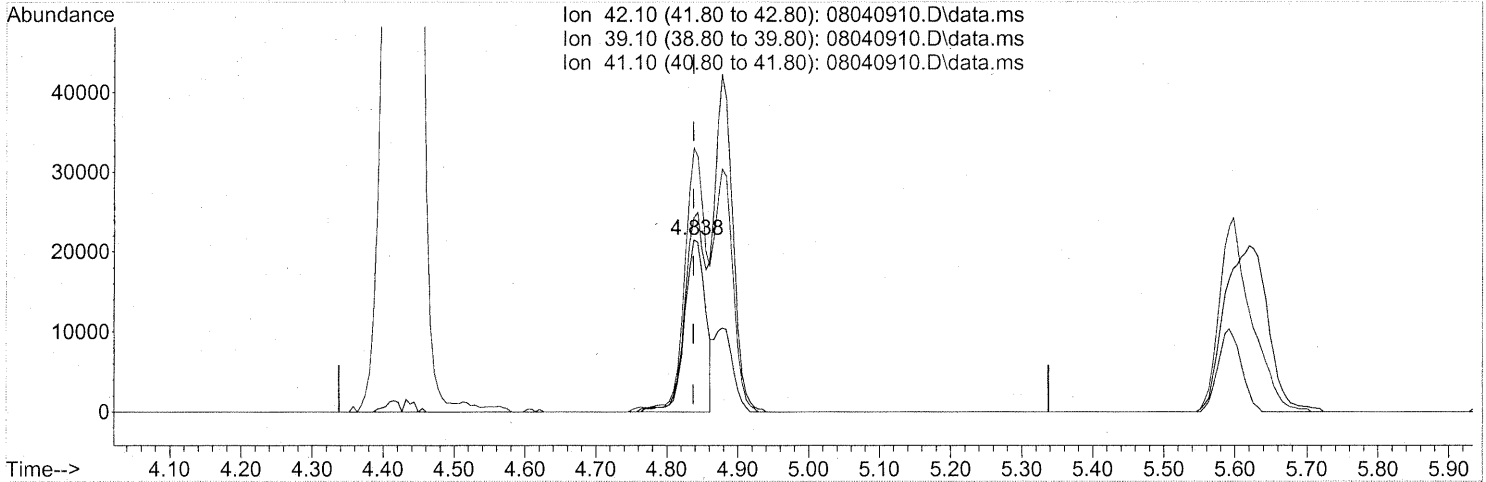
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	76.68#
41.10	152.70	109.59#
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040910.D
Acq On : 4 Aug 2009 13:10
Operator : EM
Sample : P0902624-002 (1000ml)
Misc : Environmental H & E 99442
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:04 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(2) Propene (T)

4.838min (-0.000) 2.07ng m

response 43940

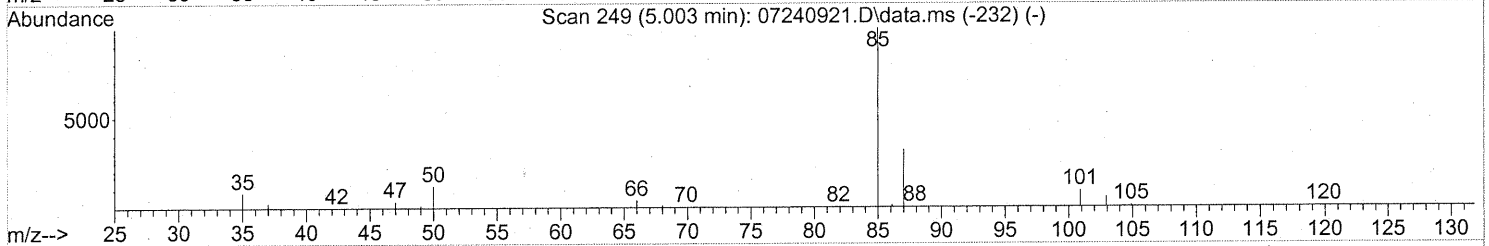
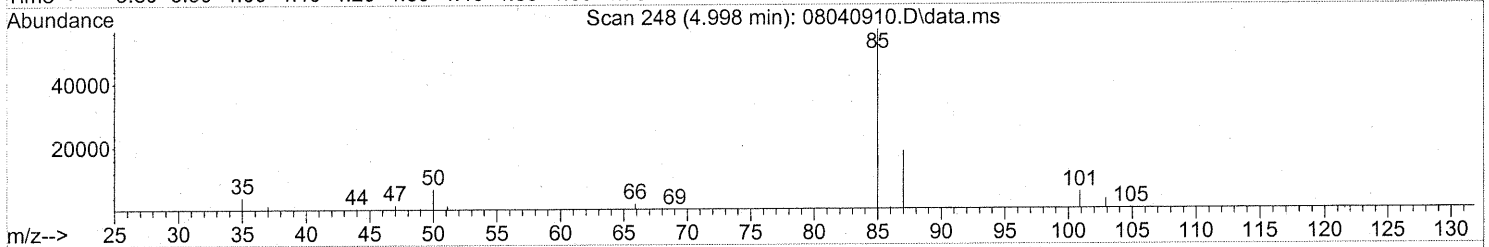
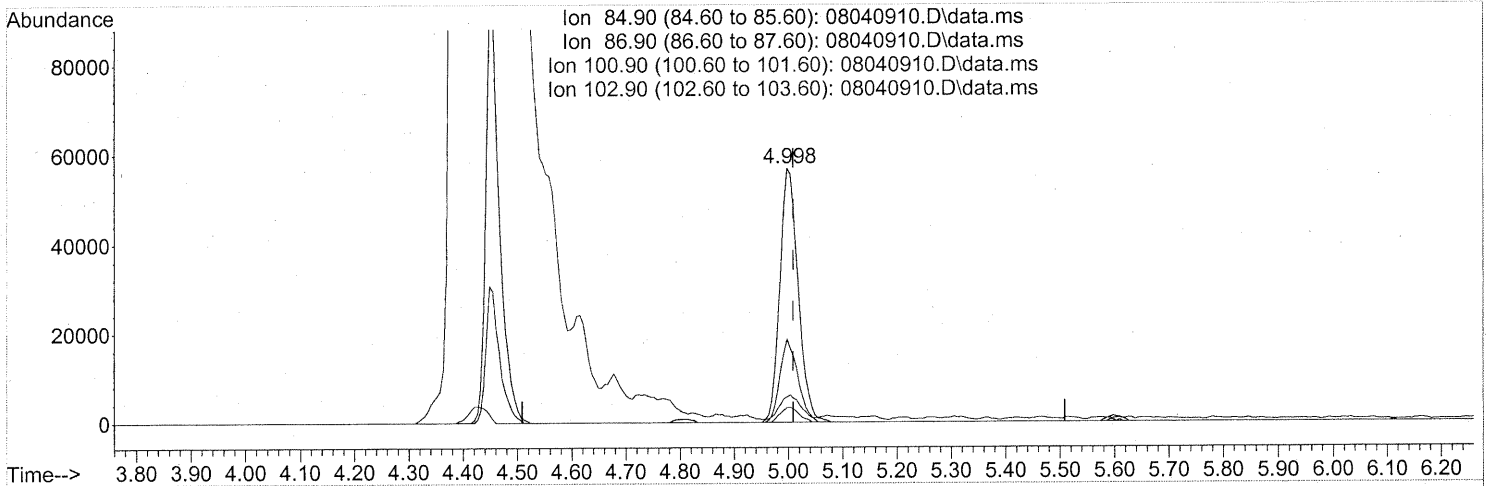
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	110.57
41.10	152.70	158.03
0.00	0.00	0.00

SH → IC
Em 8/6/09
M 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.998min (-0.011) 3.13ng

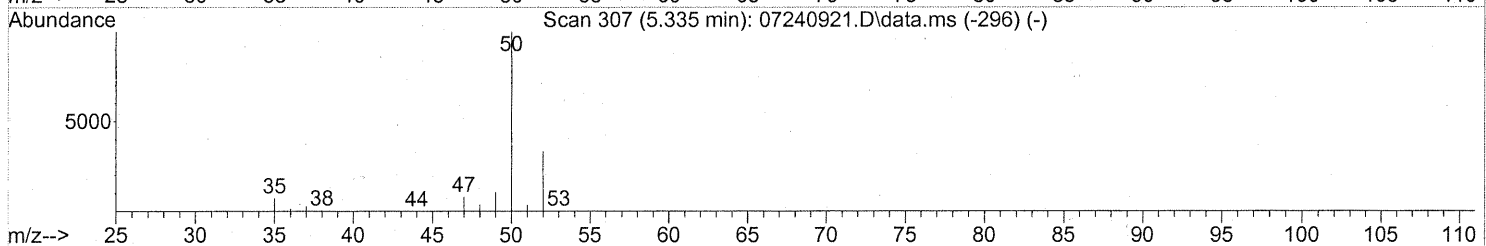
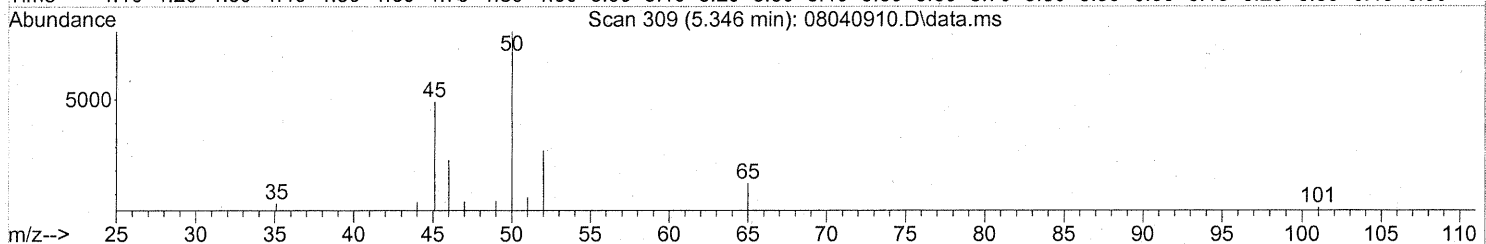
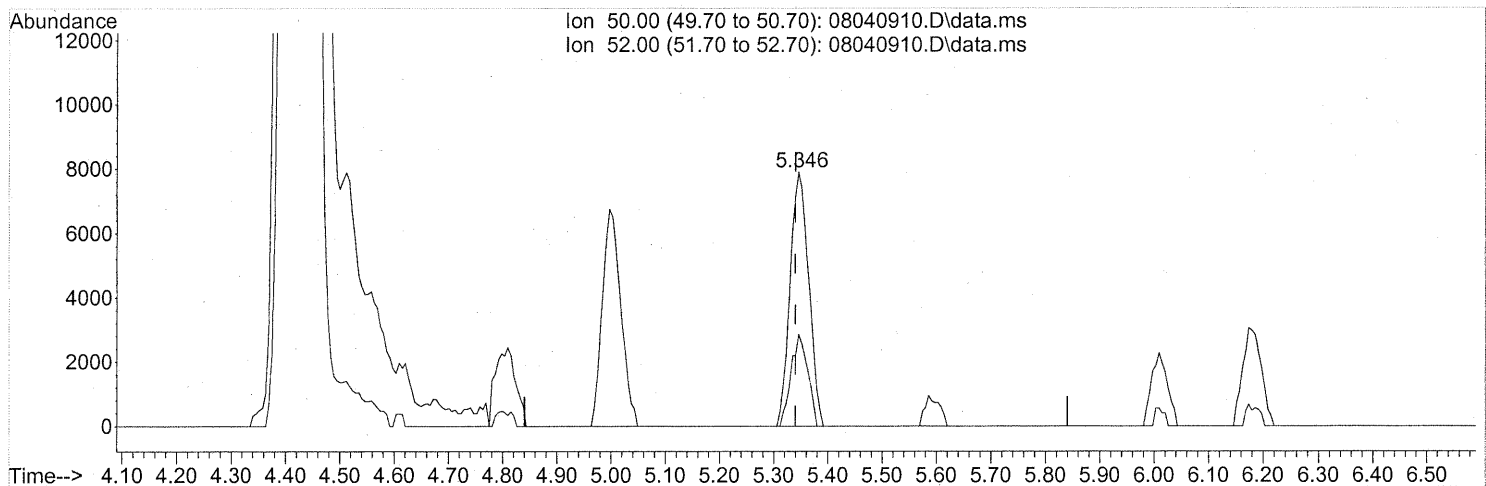
response 132647

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.89
100.90	9.10	10.65
102.90	5.50	5.77

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(4) Chloromethane (T)

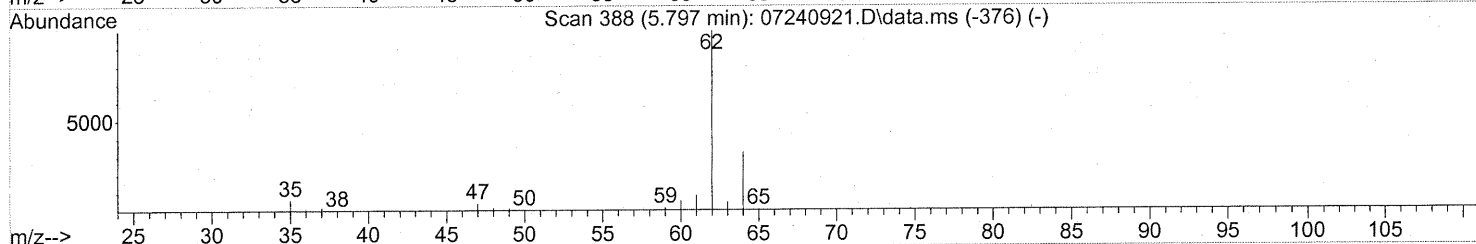
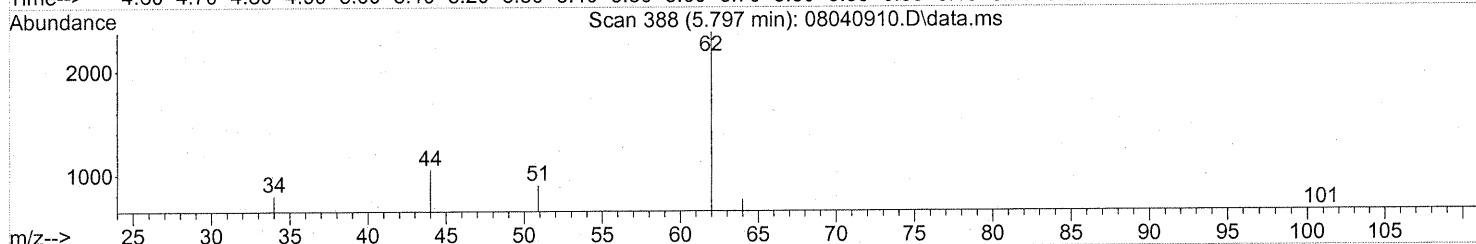
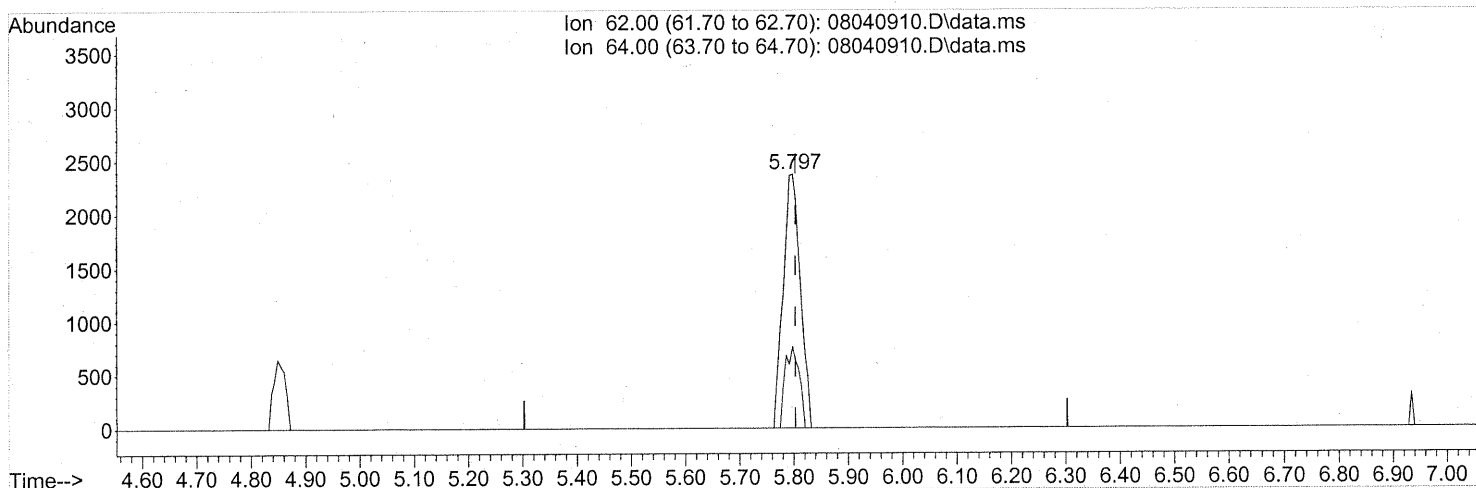
5.346min (+0.006) 0.59ng
 response 18840

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	32.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

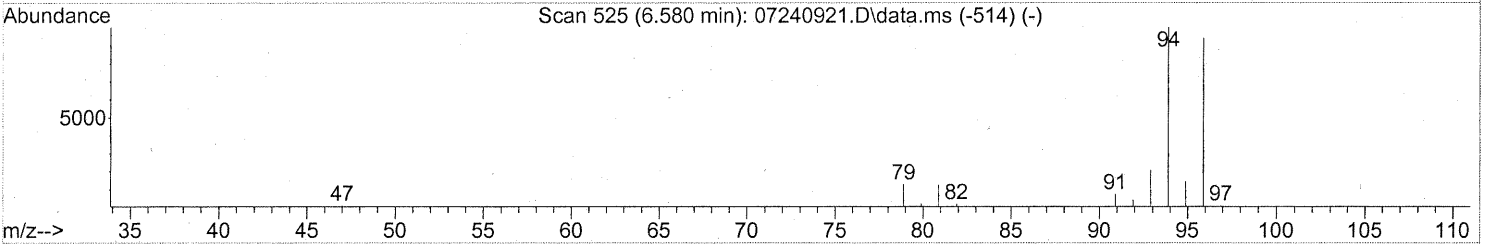
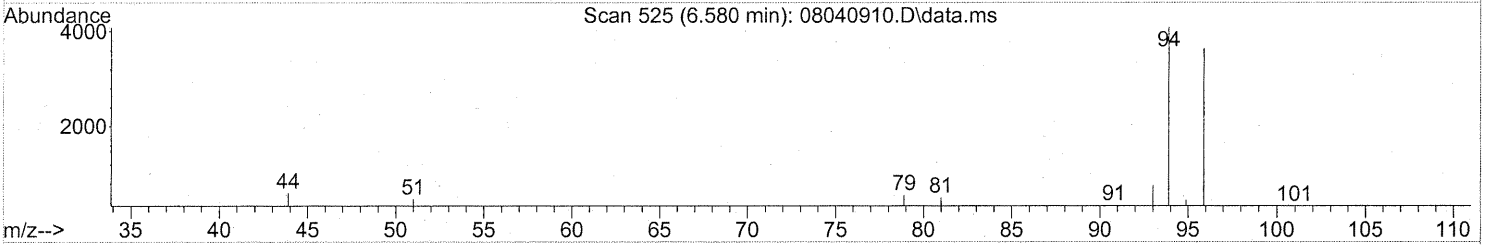
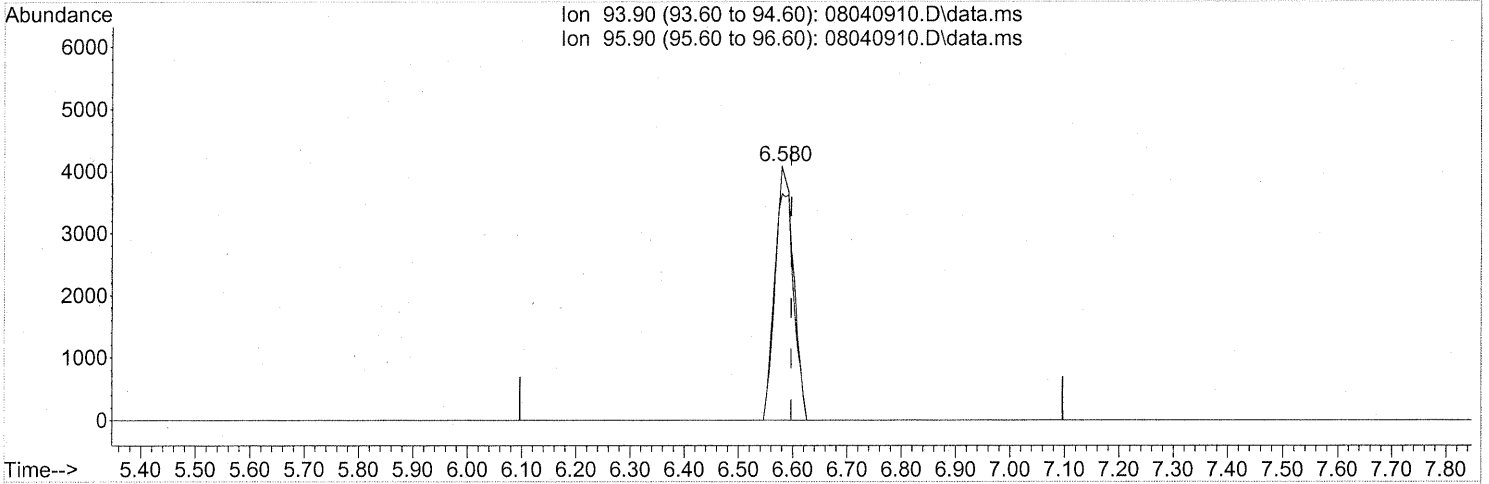
(6) Vinyl Chloride (T)
 5.797min (-0.006) 0.15ng
 response 5199

Ion	Exp%	Act%
62.00	100	100
64.00	32.40	26.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(8) Bromomethane (T)

6.580min (-0.017) 0.49ng

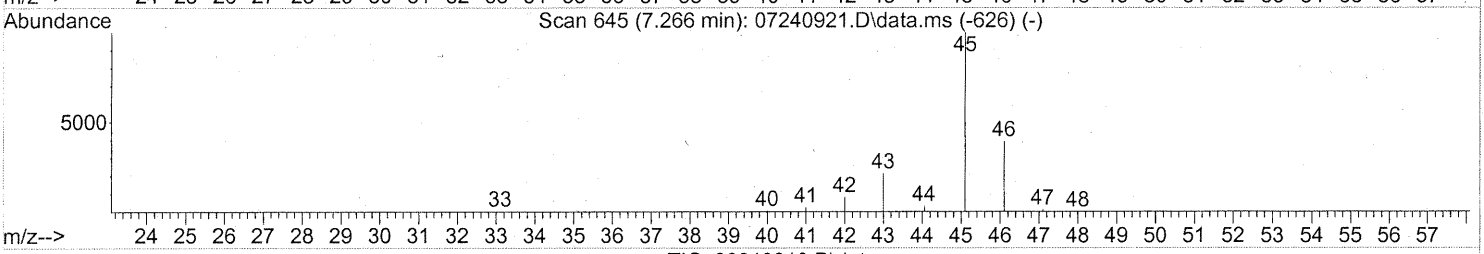
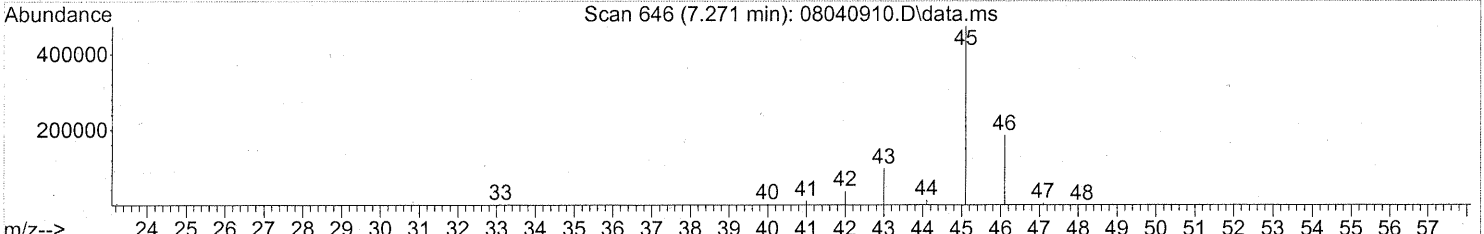
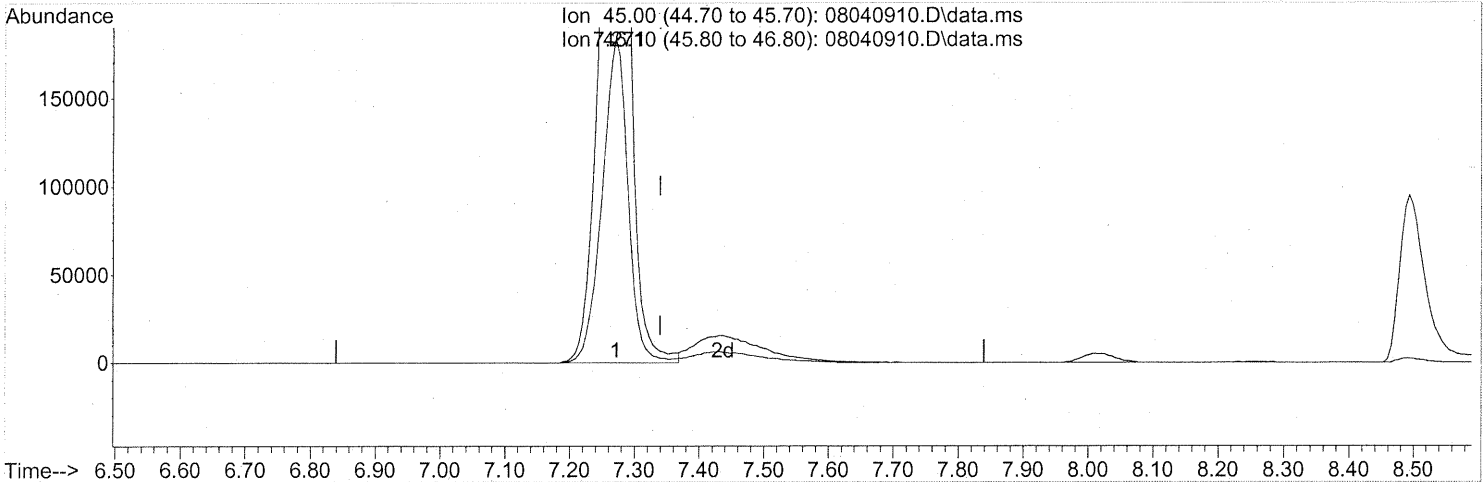
response 9718

Ion	Exp%	Act%
93.90	100	100
95.90	94.20	91.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:04 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.271min (-0.069) 93.96ng
 response 1322760

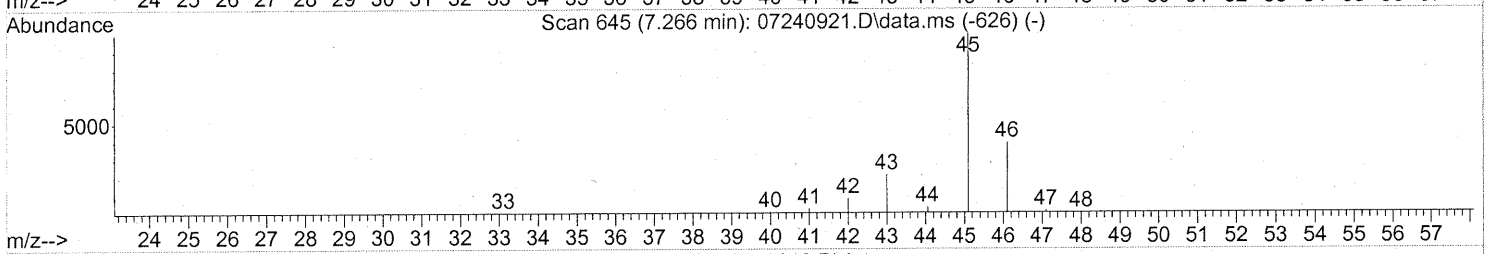
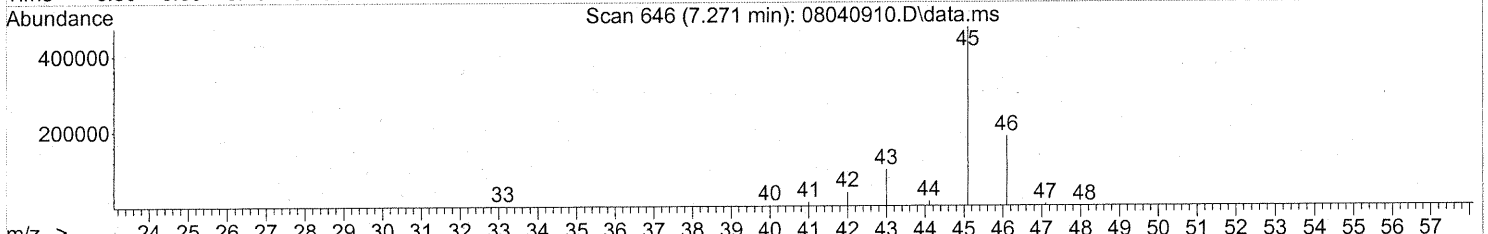
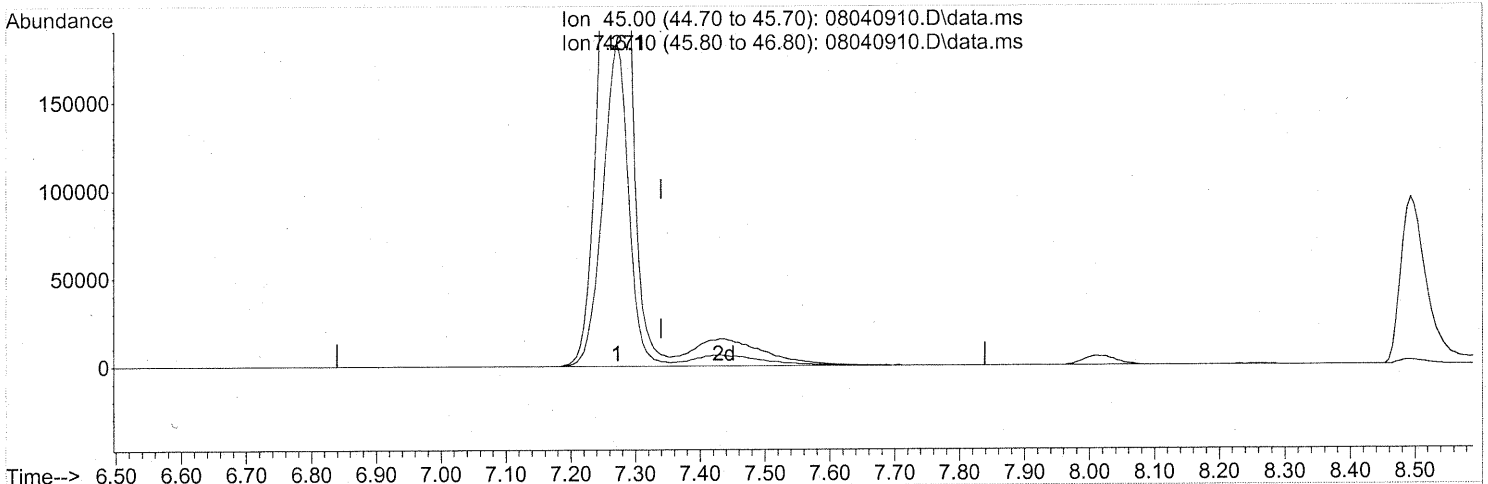
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.72
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:04 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.271min (-0.069) 102.13ng m
 response 1437777

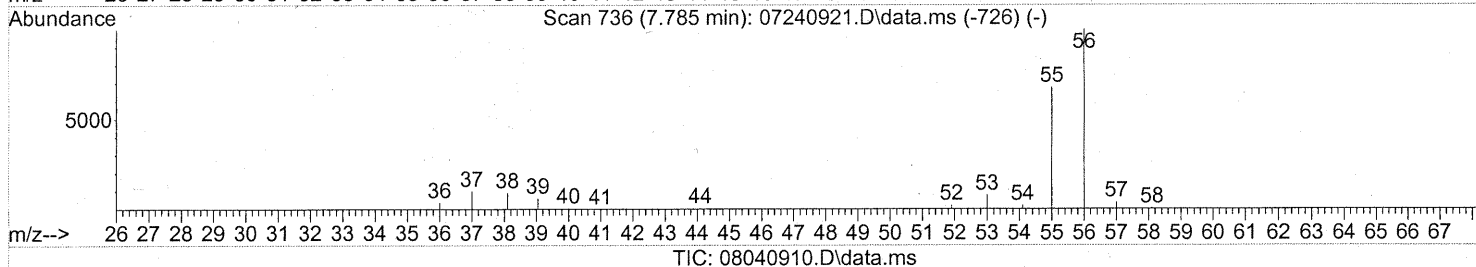
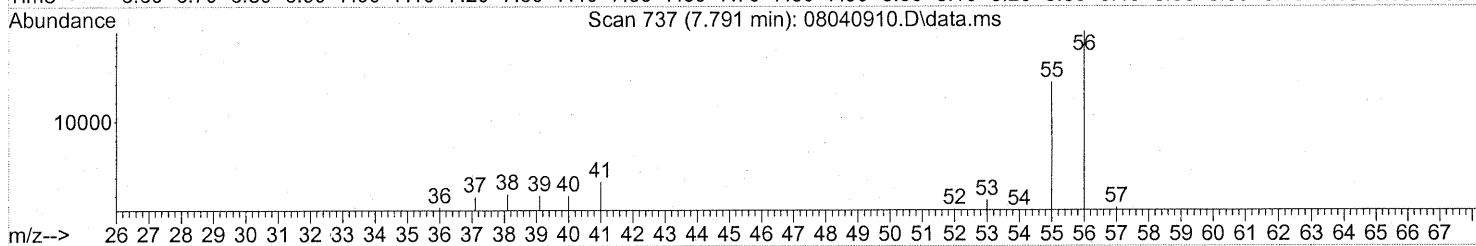
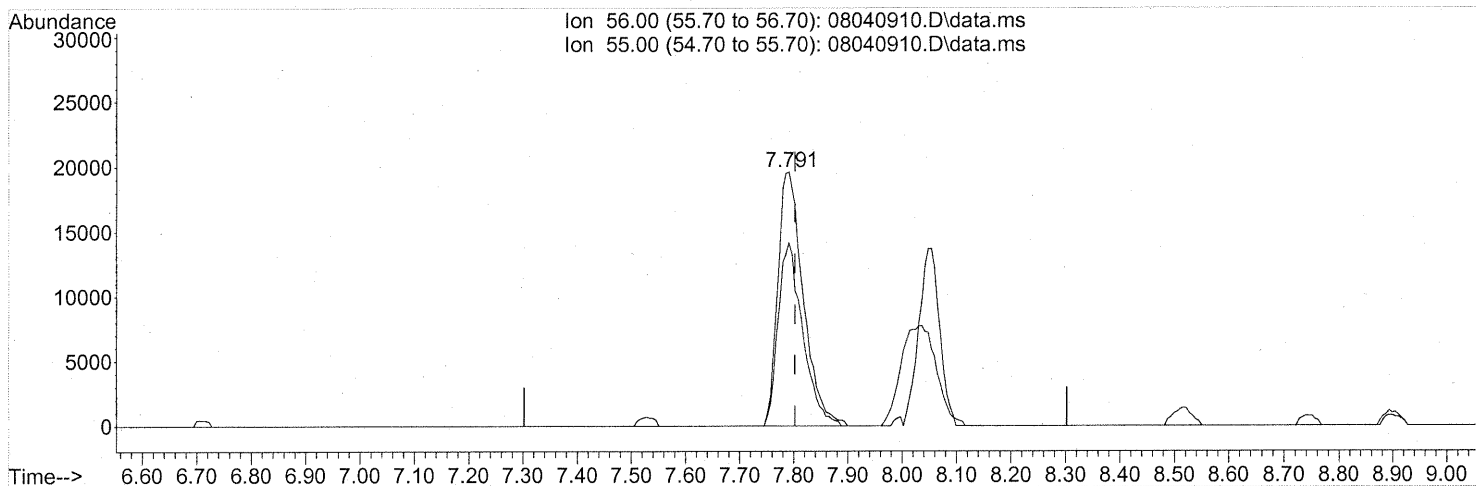
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	35.62
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
Em 8/6/09
UM 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.791min (-0.012) 6.25ng

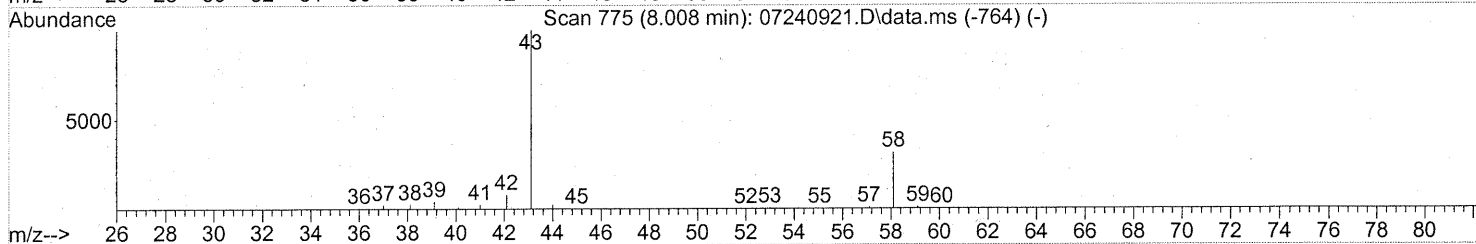
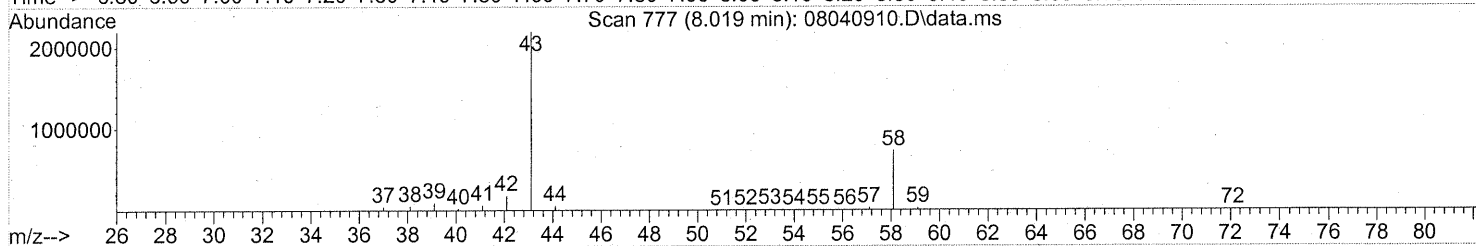
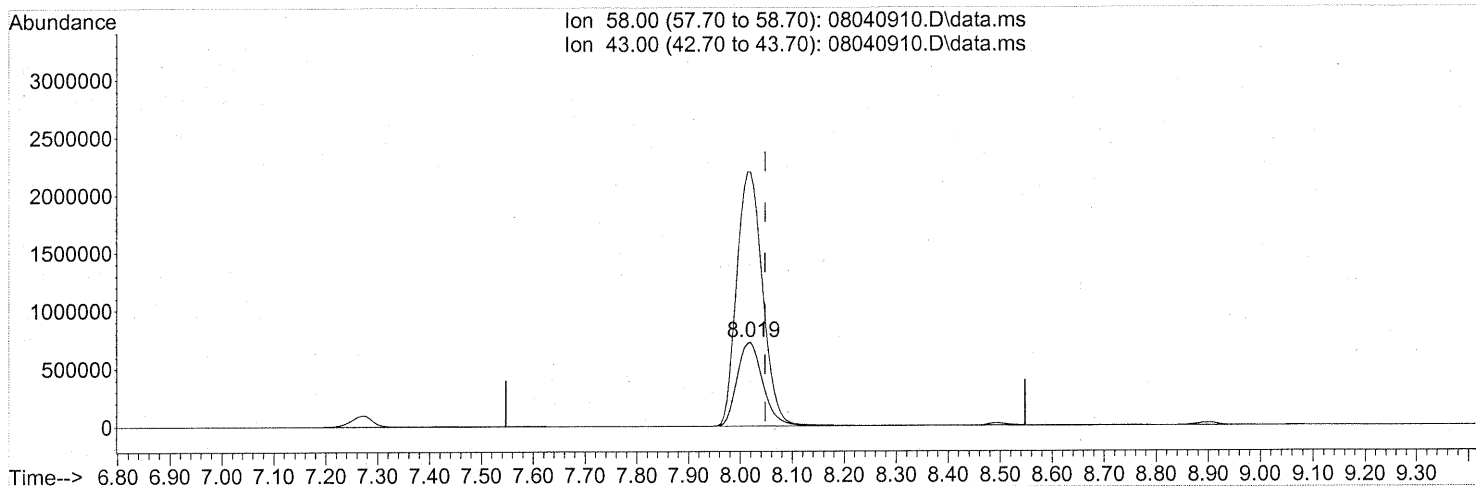
response 64190

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(13) Acetone (T)

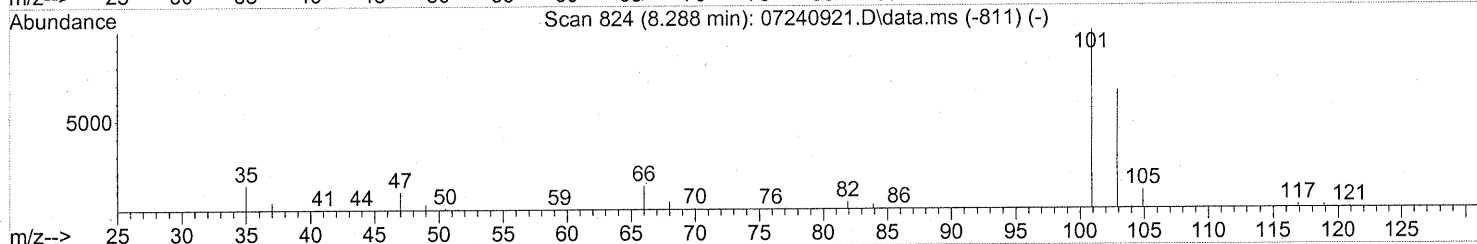
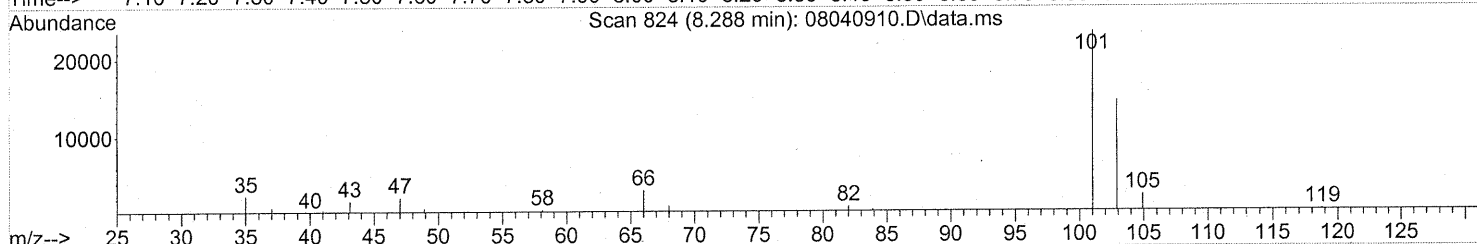
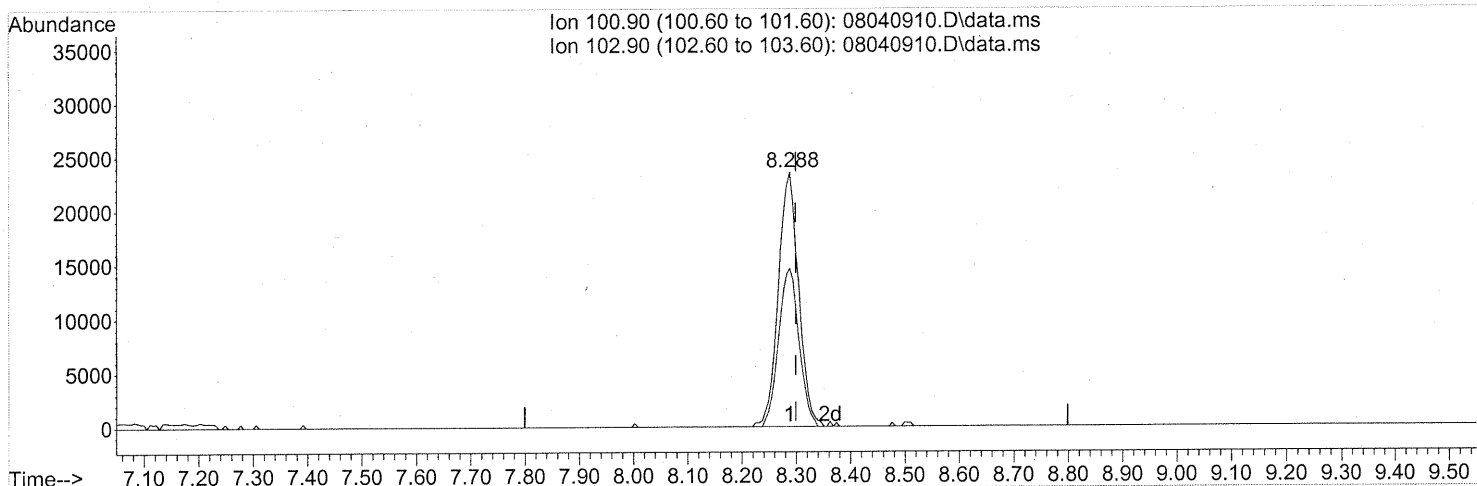
8.019min (-0.029) 154.59ng
 response 2475267

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	307.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.012) 1.66ng

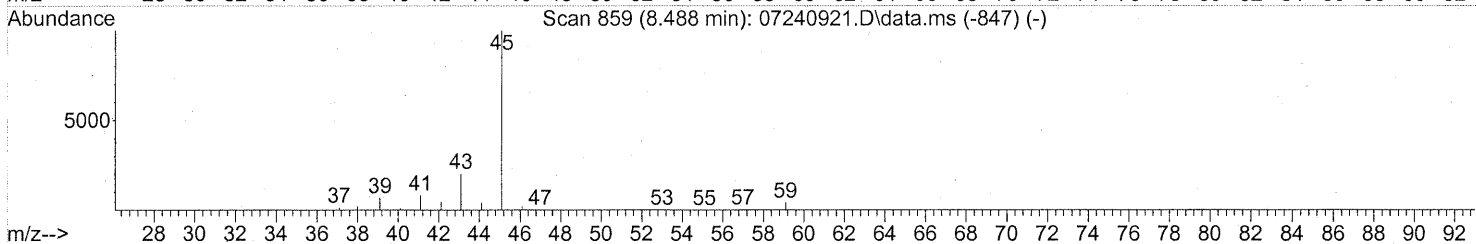
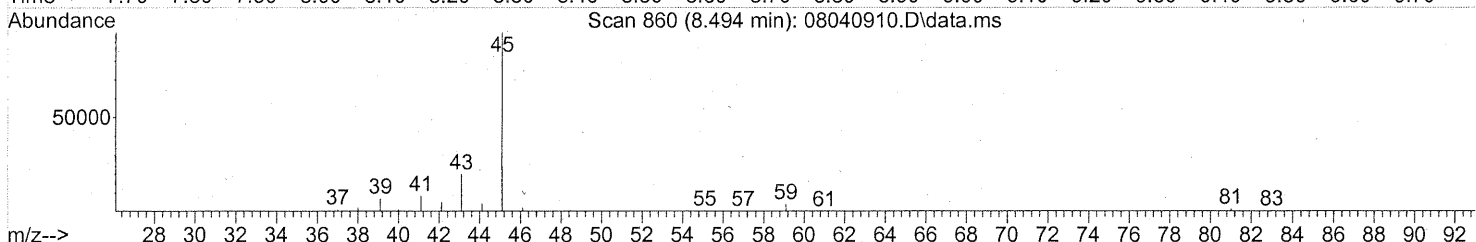
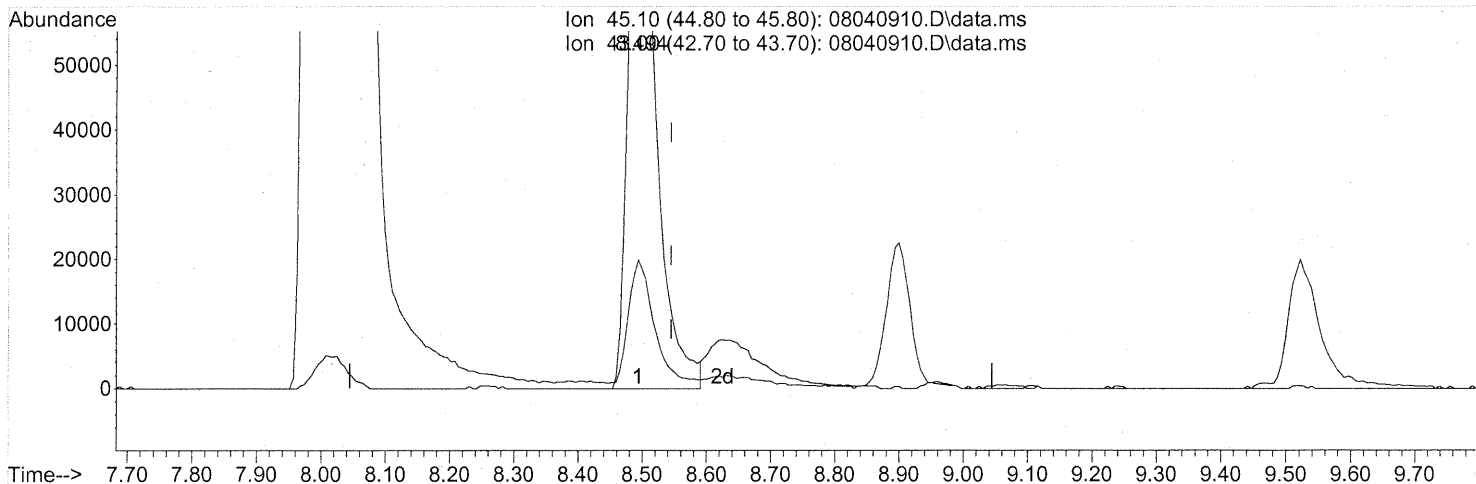
response 61128

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	62.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\ ●
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:04 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 6.36ng

response 267893

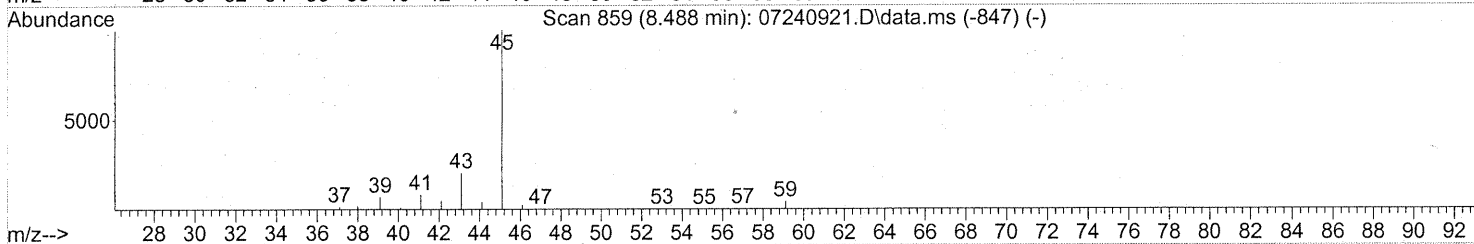
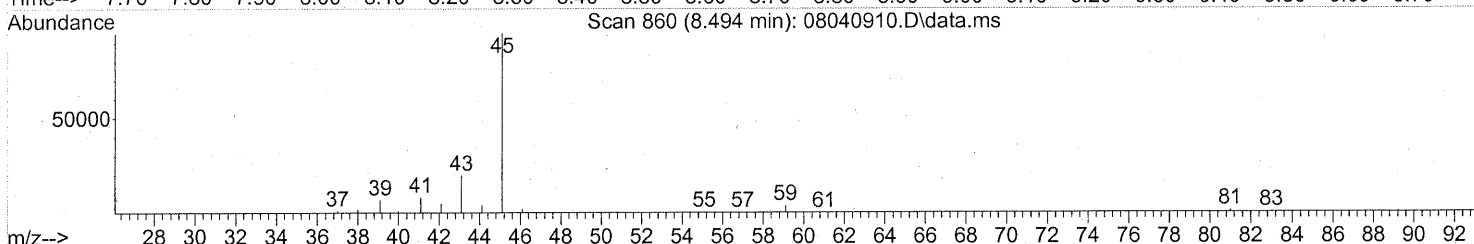
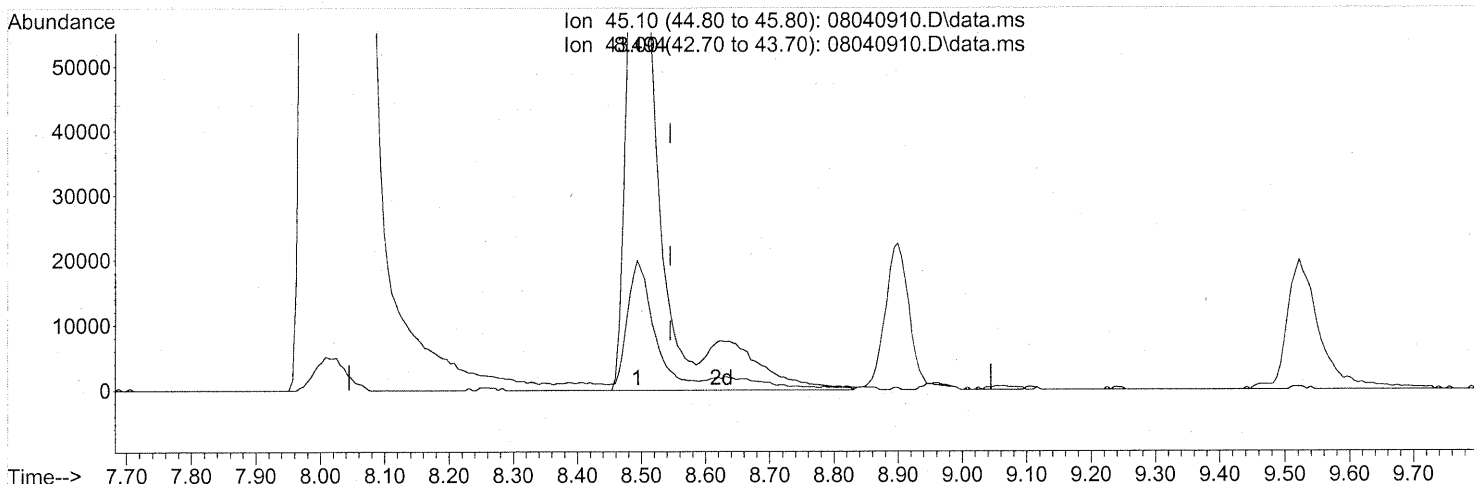
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.83
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:04 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 7.45ng m

response 313682

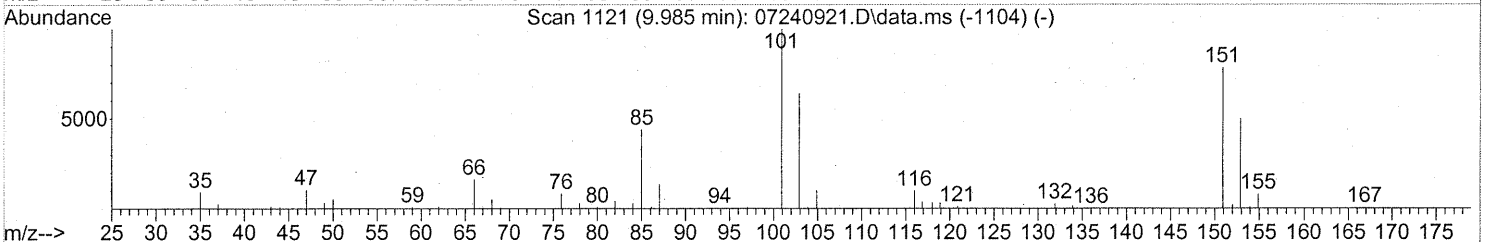
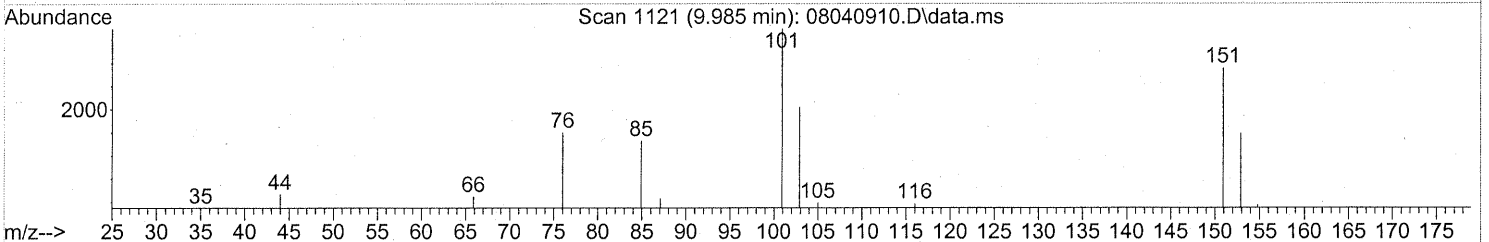
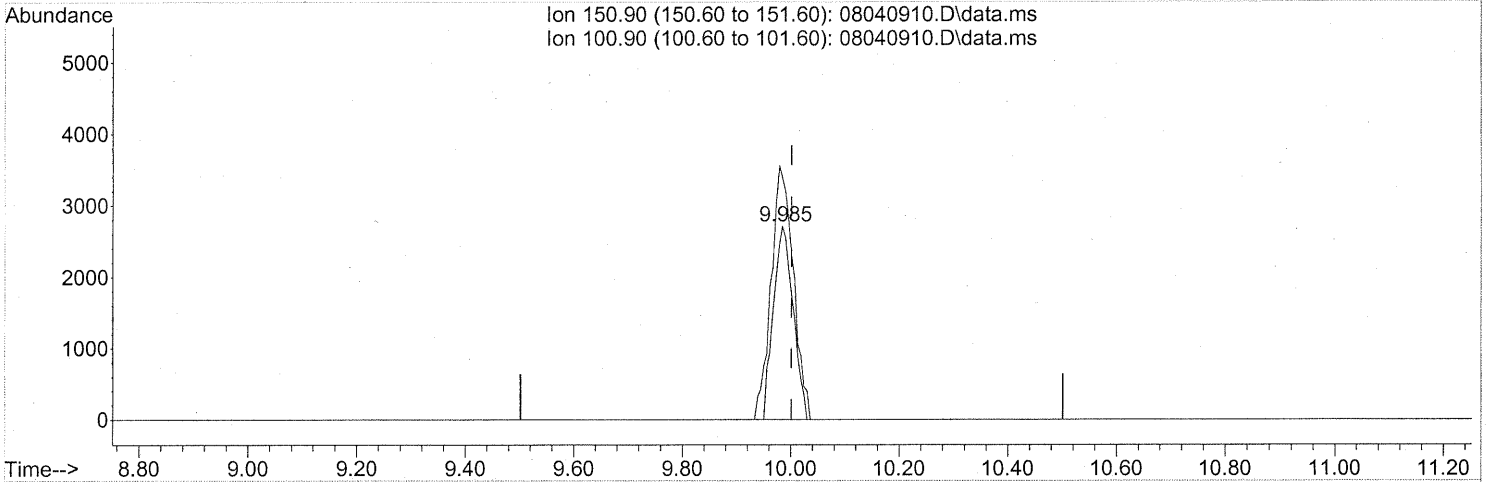
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.94
0.00	0.00	0.00
0.00	0.00	0.00

P.T → TIC
Em 8/6/09
11/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.41ng

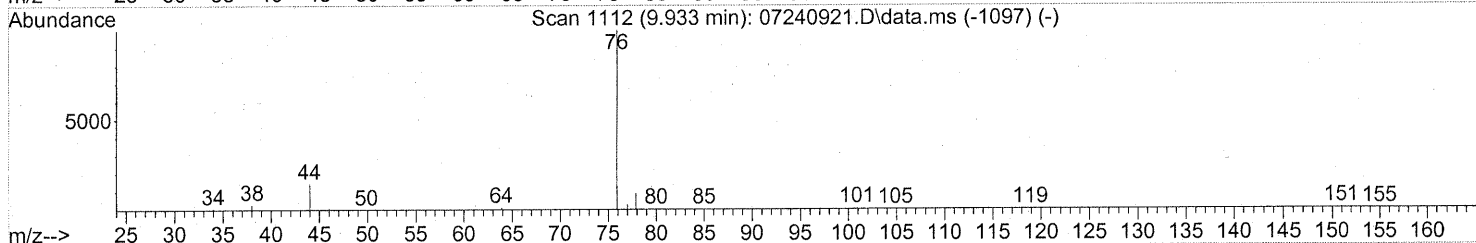
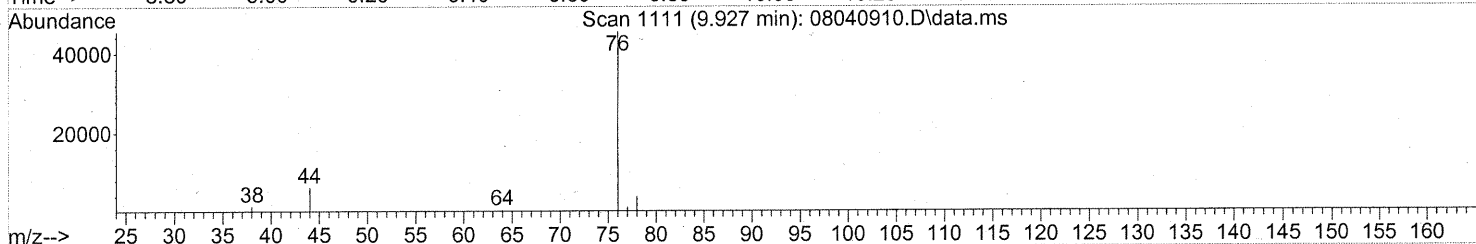
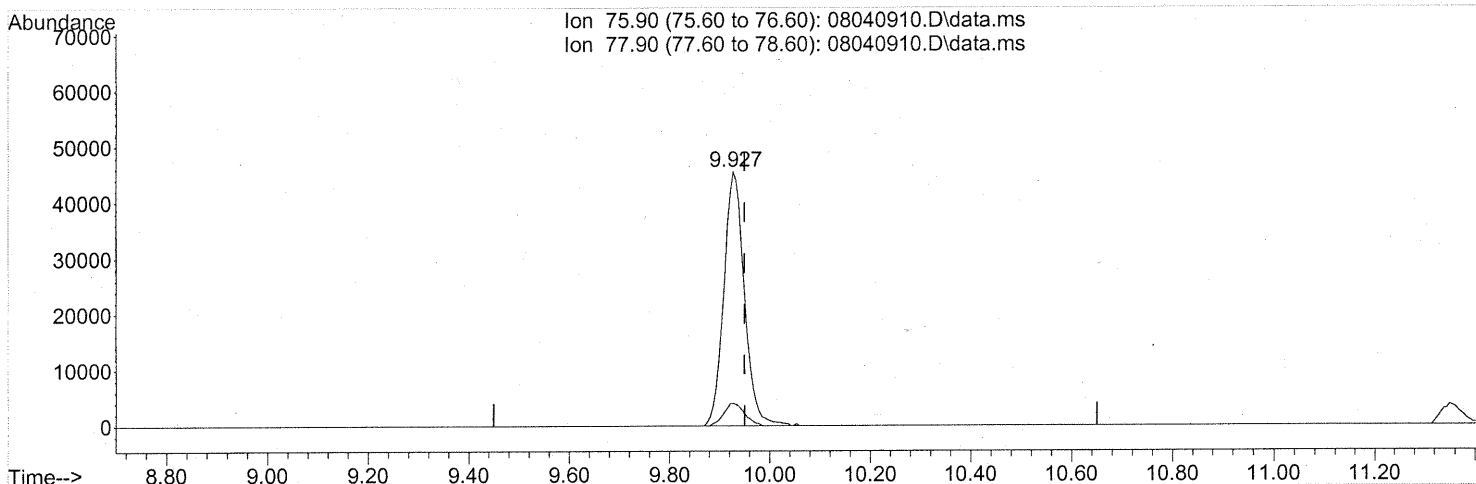
response 6848

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	147.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(22) Carbon Disulfide (T)

9.927min (-0.023) 1.79ng

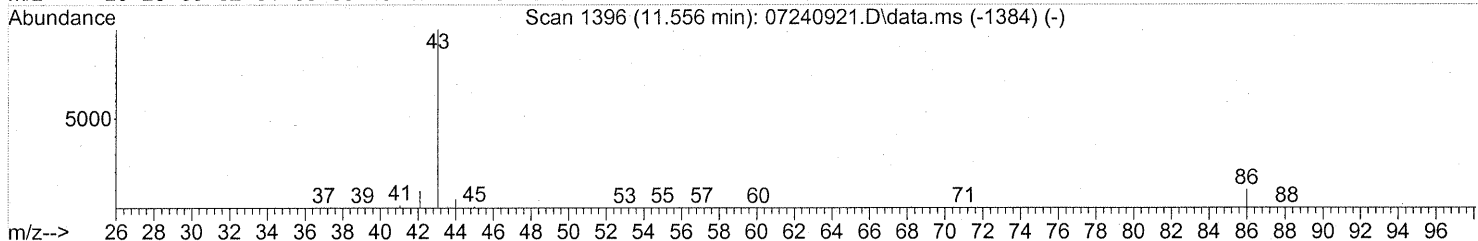
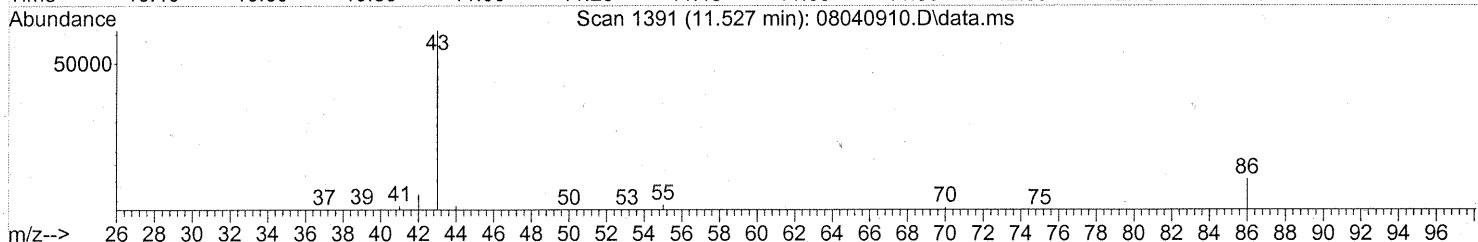
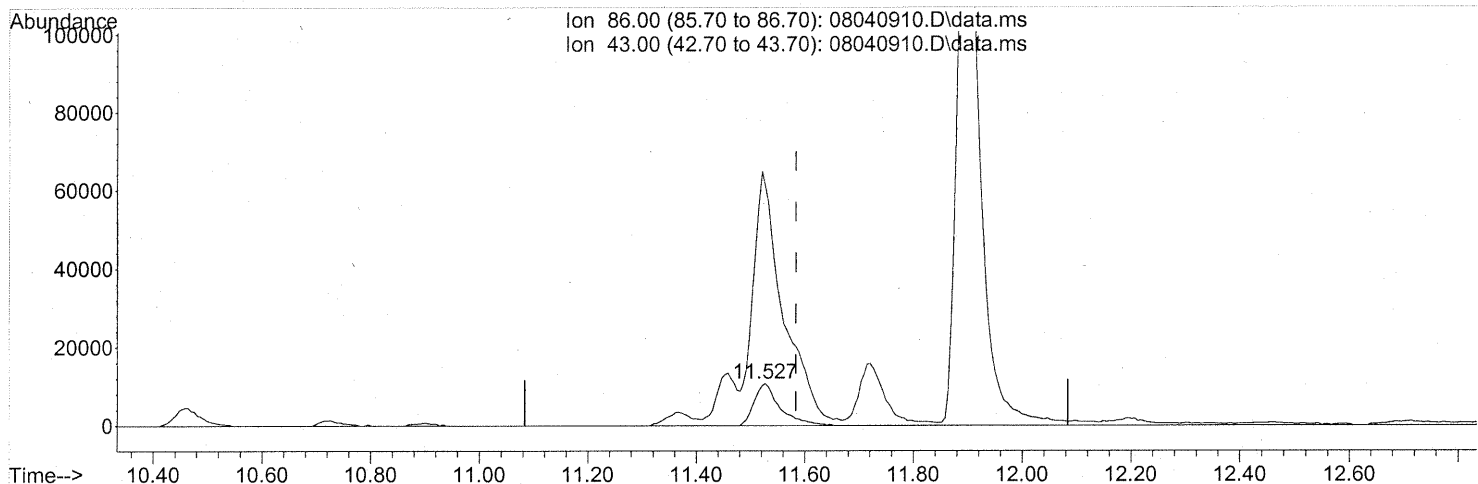
response 129513

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(26) Vinyl Acetate (T)

11.527min (-0.057) 9.13ng

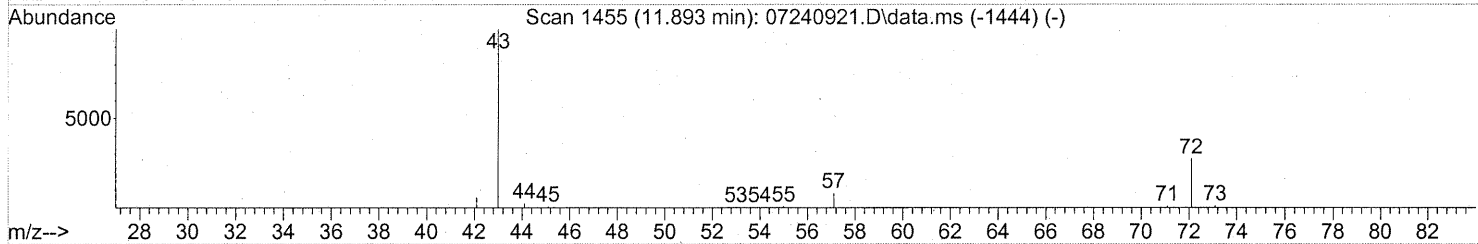
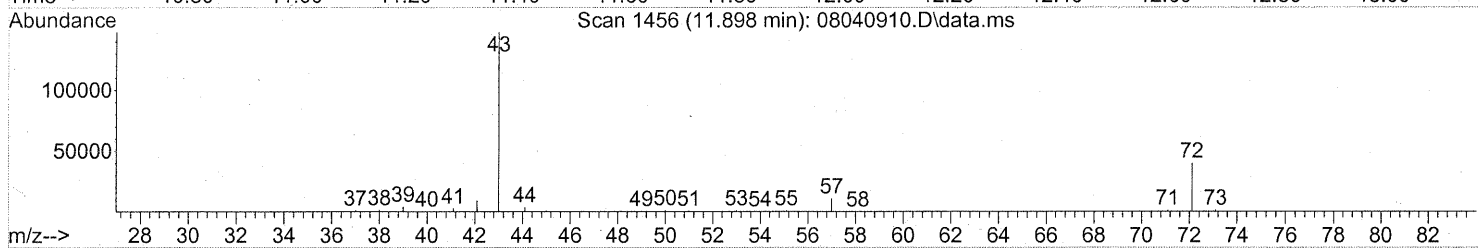
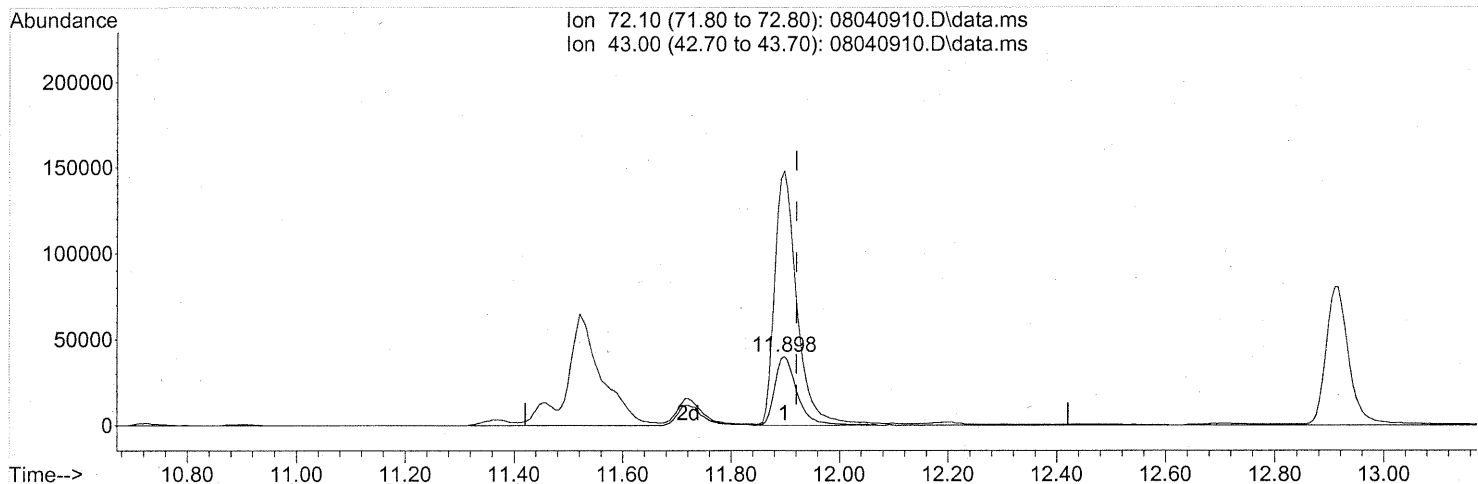
response 34872

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	701.80#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

11.898min (-0.023) 9.36ng

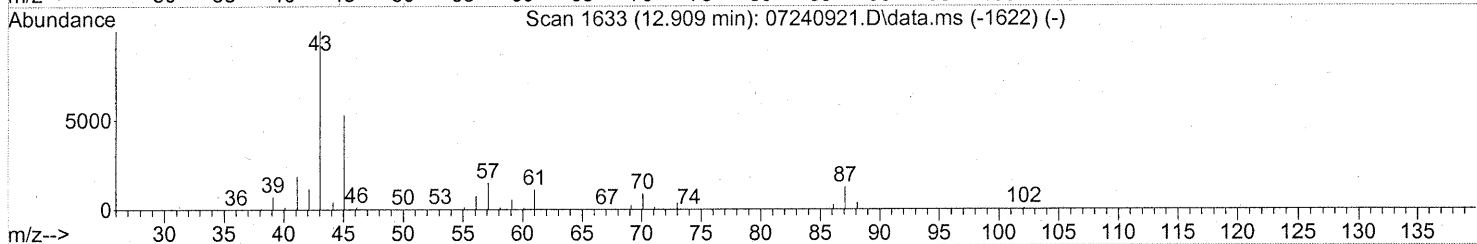
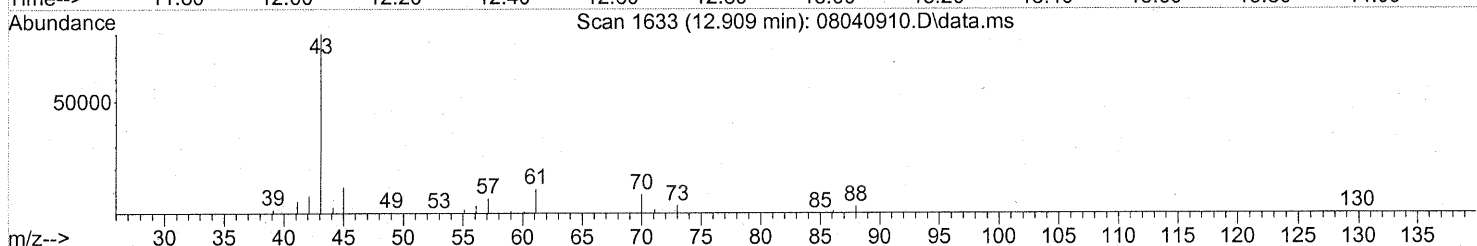
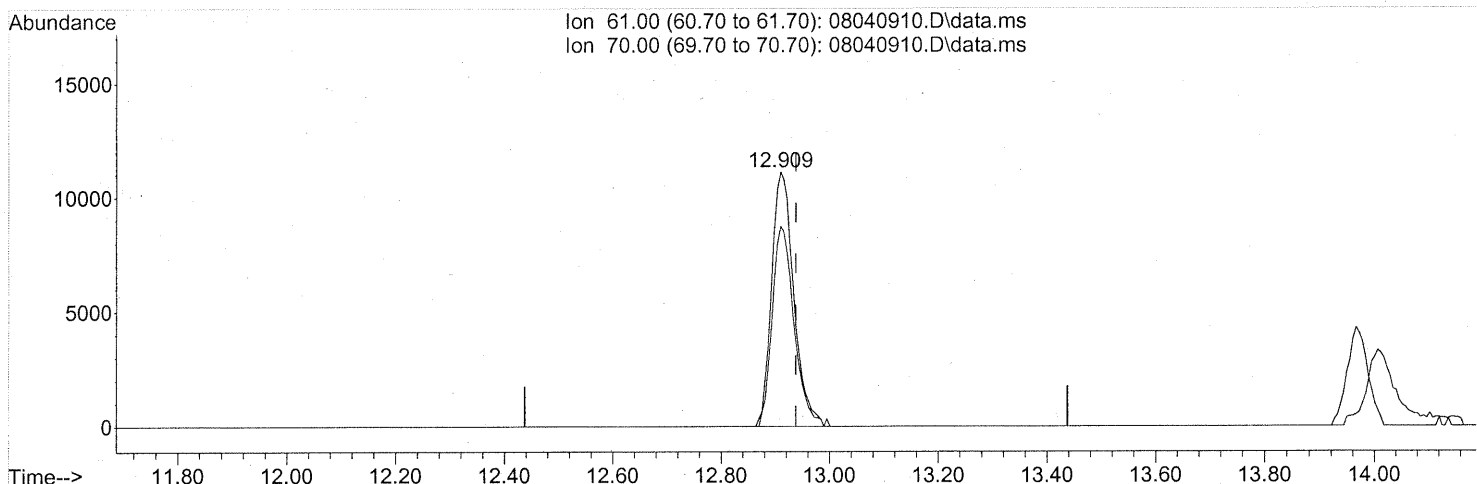
response 114310

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	365.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

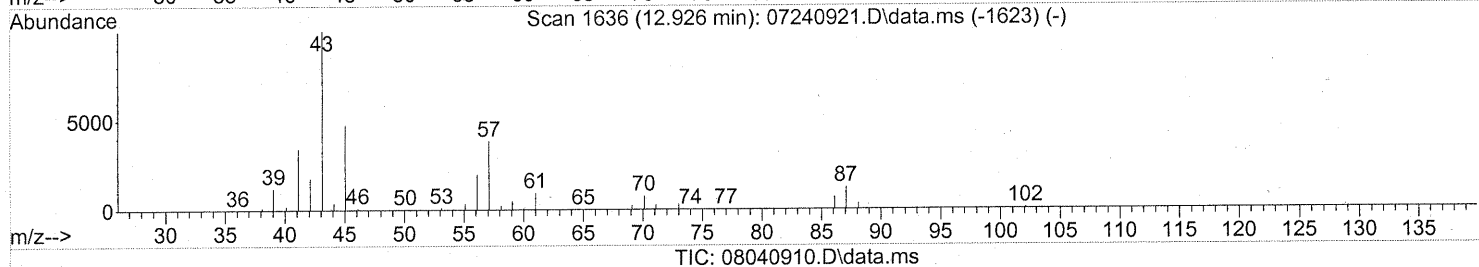
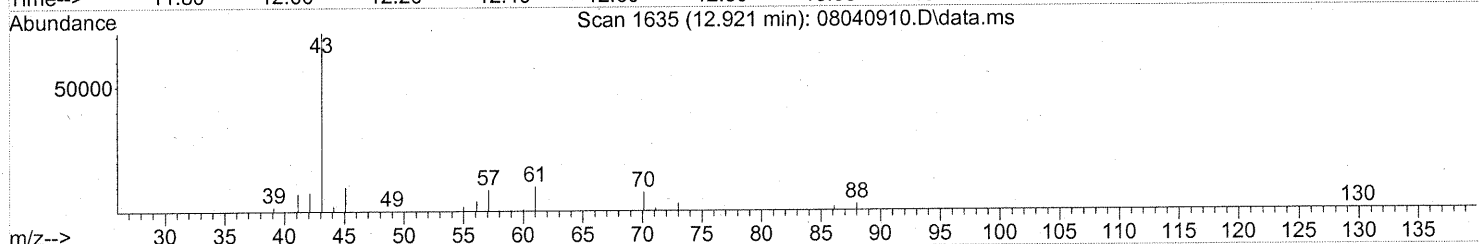
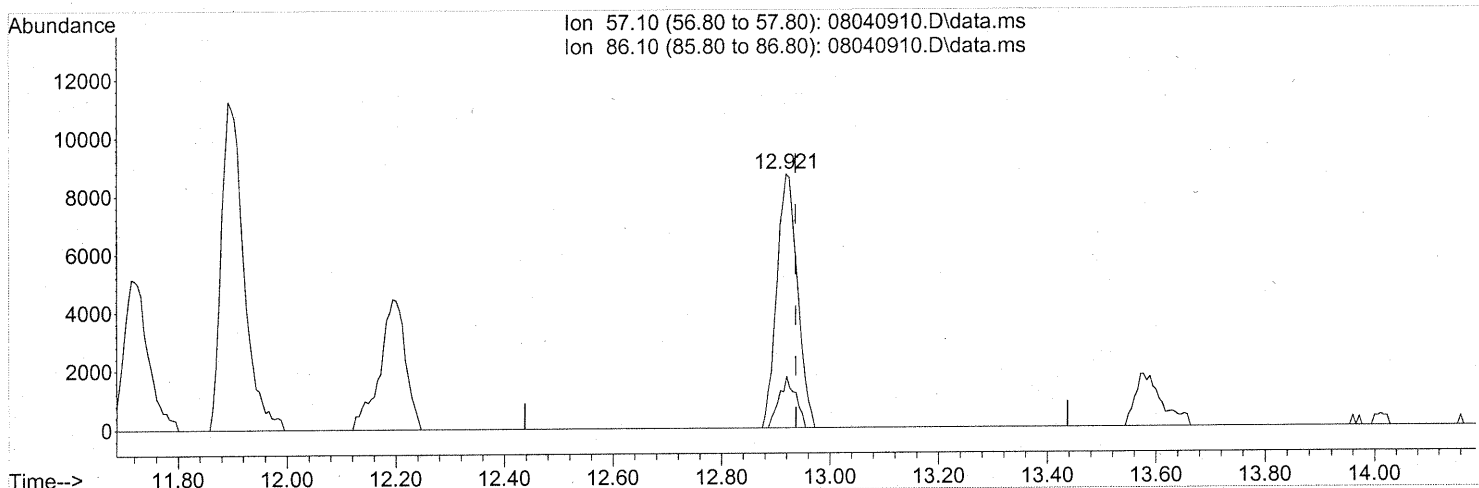
(30) Ethyl Acetate (T)
 12.909min (-0.029) 3.93ng
 response 31477

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	77.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



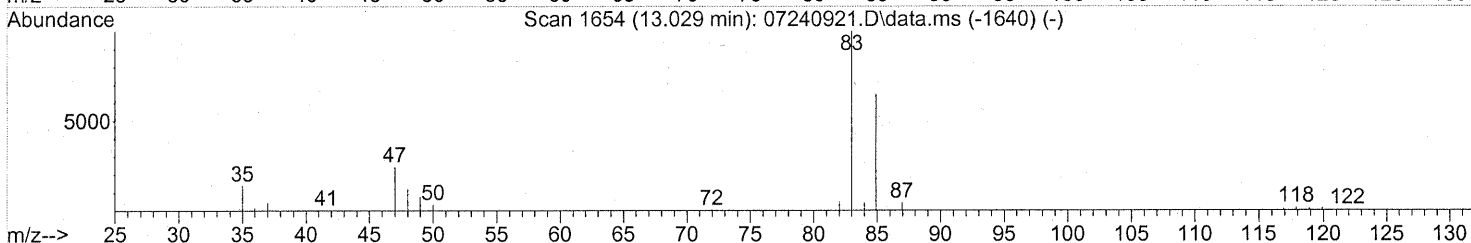
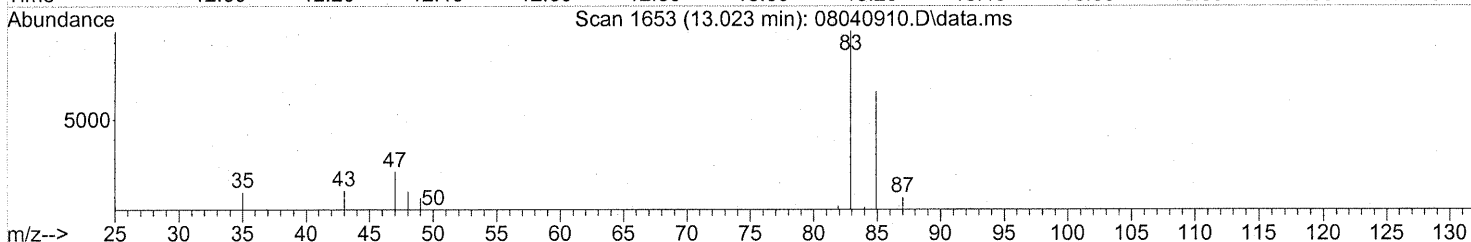
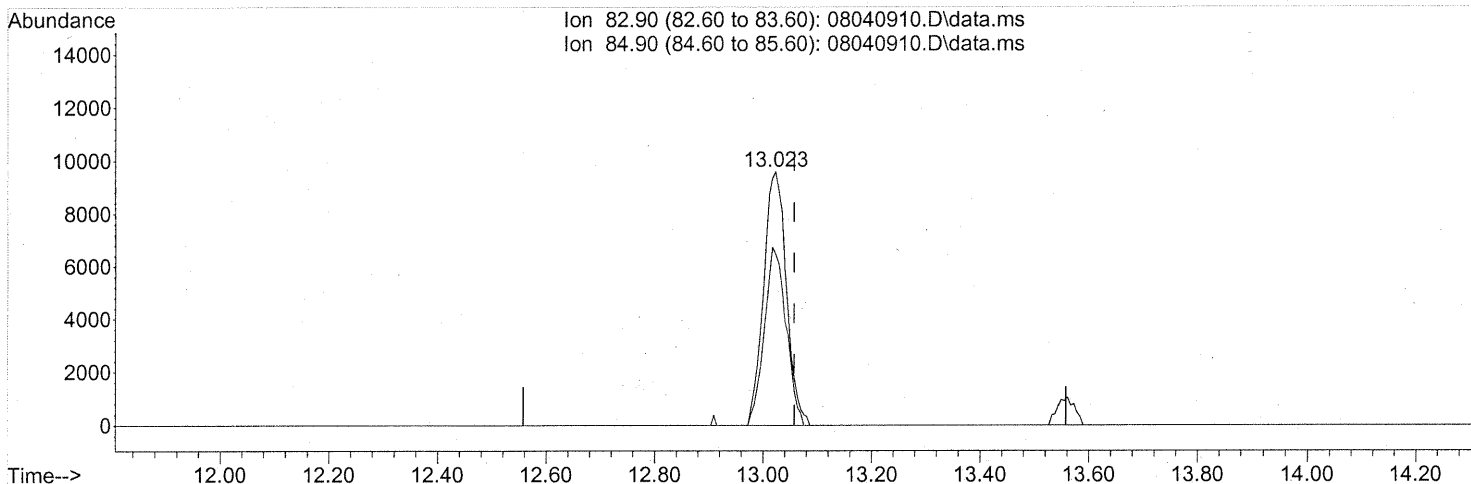
(31) n-Hexane (T)
 12.921min (-0.017) 0.62ng
 response 22964

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	16.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

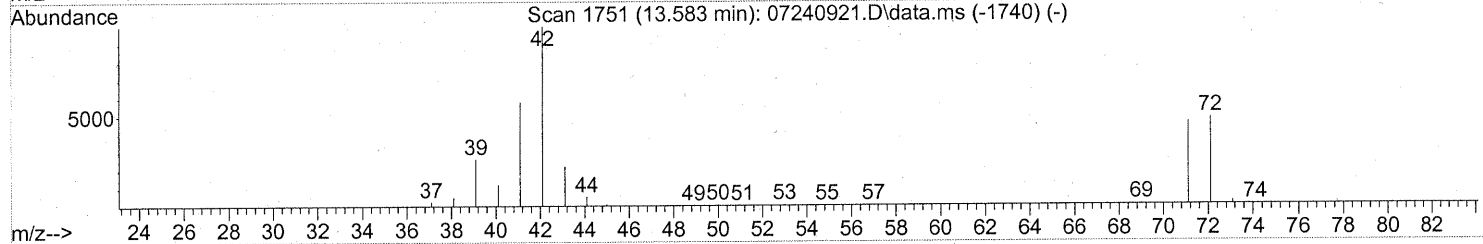
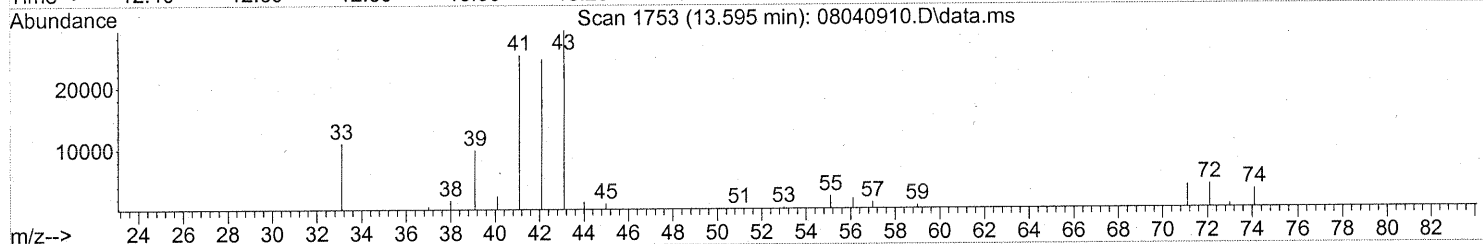
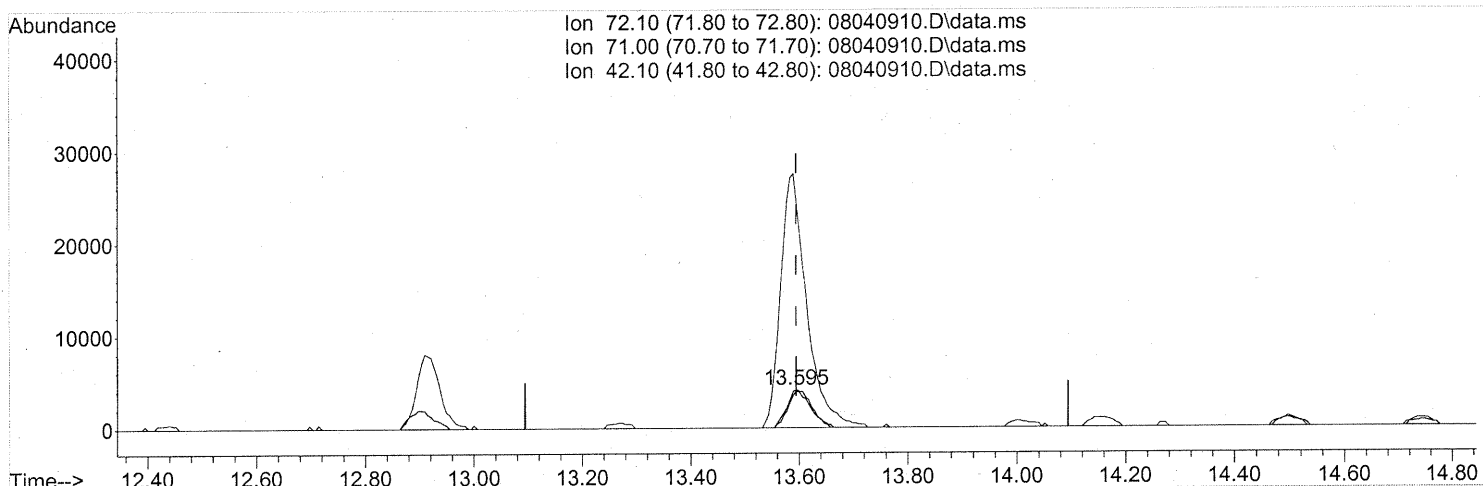
(32) Chloroform (T)
 13.023min (-0.034) 0.83ng
 response 27887

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	66.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.595min (-0.000) 1.11ng

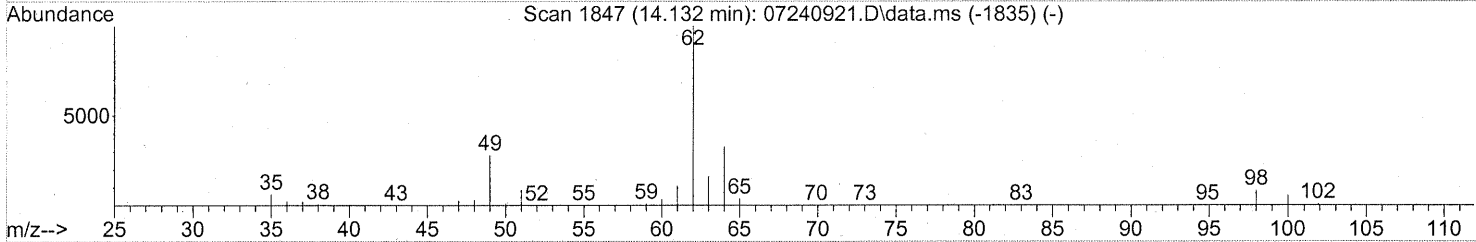
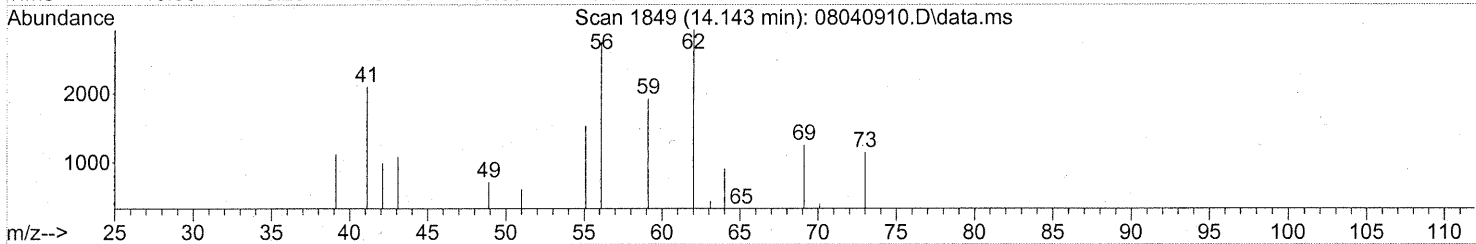
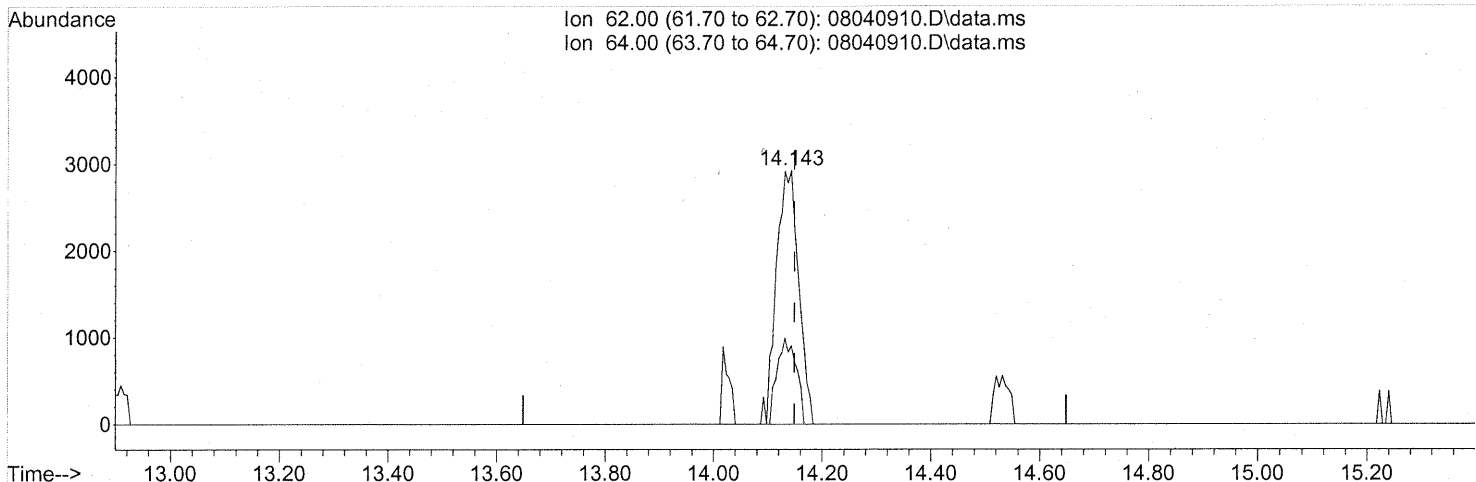
response 12737

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	89.95
42.10	206.50	715.86#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040910.D
Acq On : 4 Aug 2009 13:10
Operator : EM
Sample : P0902624-002 (1000ml)
Misc : Environmental H & E 99442
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

14.143min (-0.006) 0.31ng

response 8301

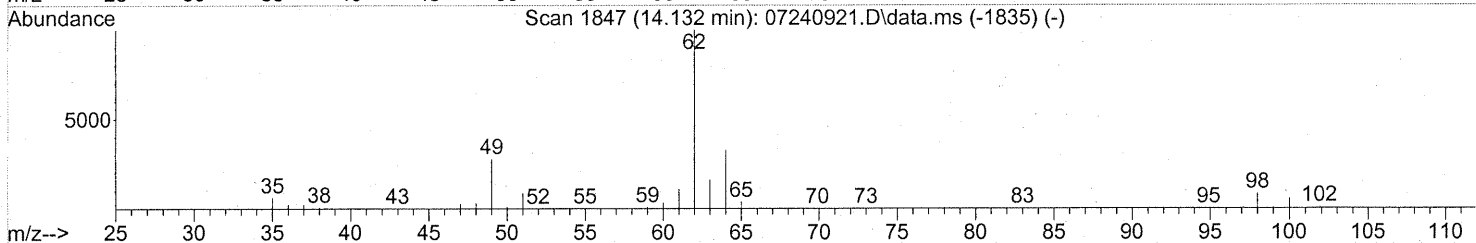
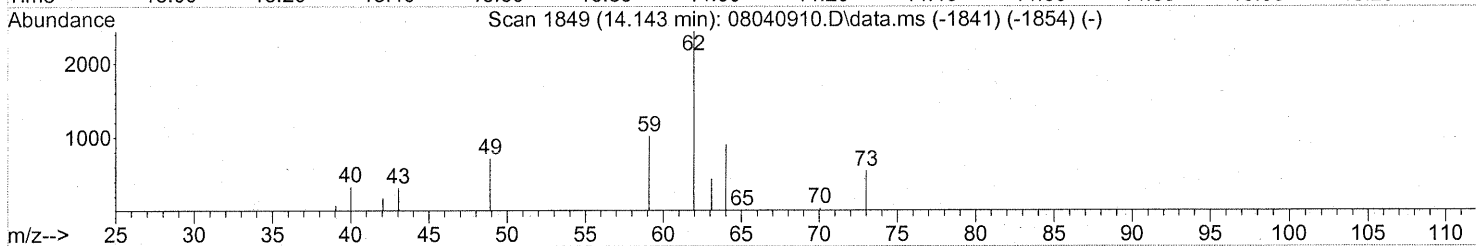
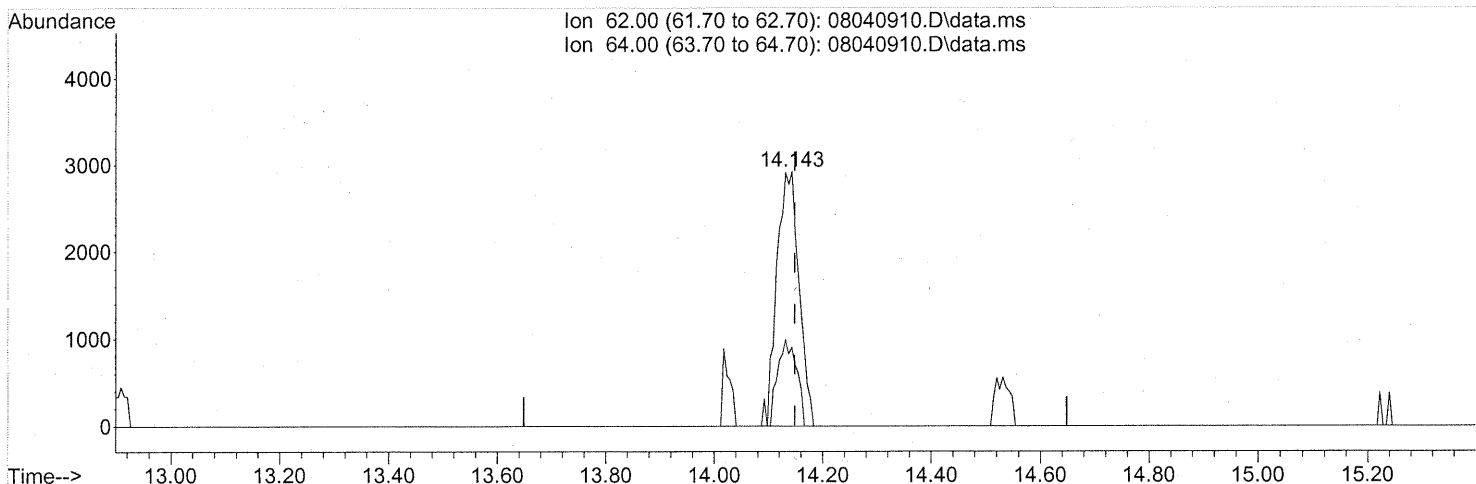
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	28.92
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(36) 1,2-Dichloroethane (T)

14.143min (-0.006) 0.31ng

response 8301

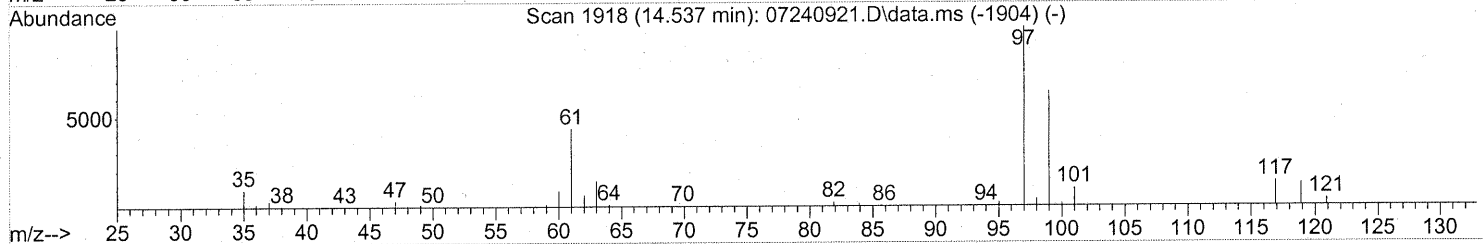
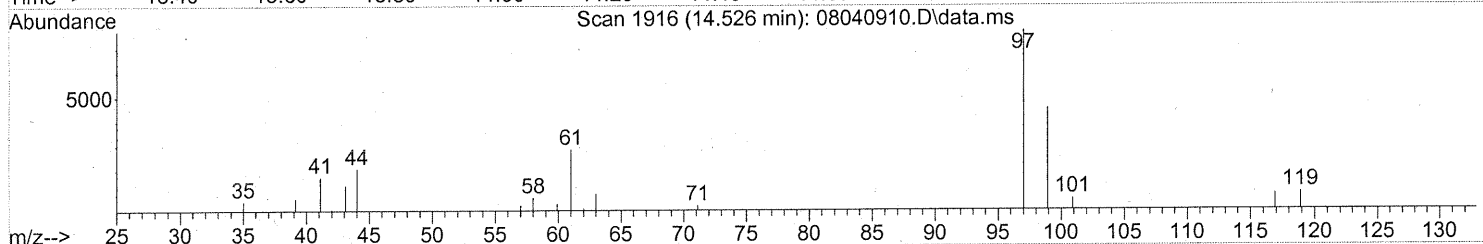
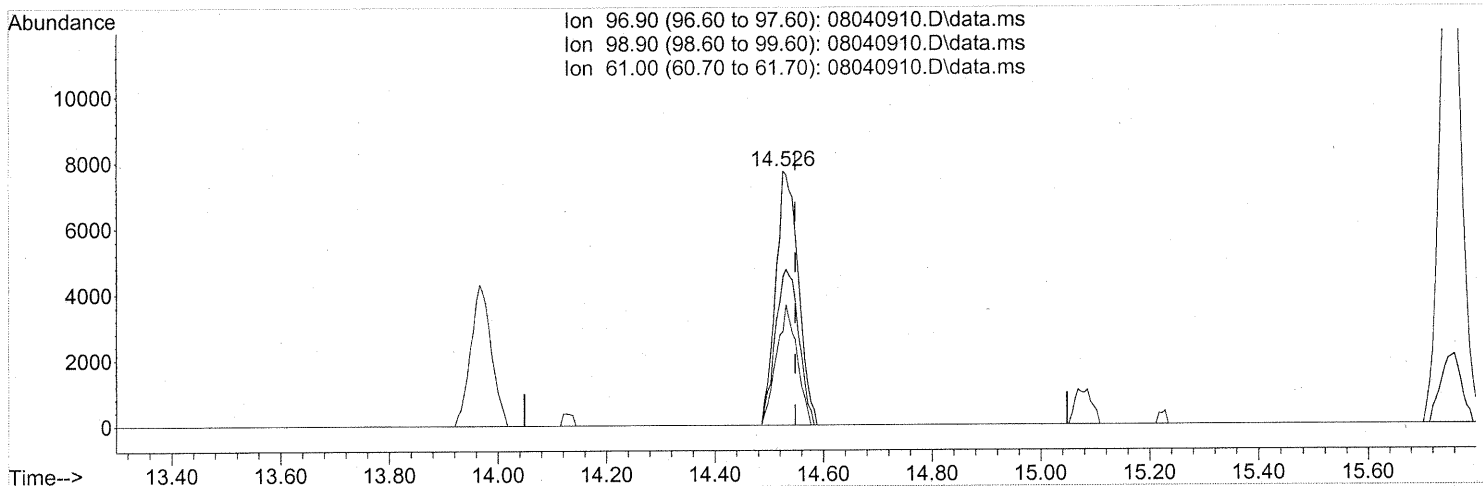
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	28.92
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 em slulog*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.526min (-0.023) 0.71ng

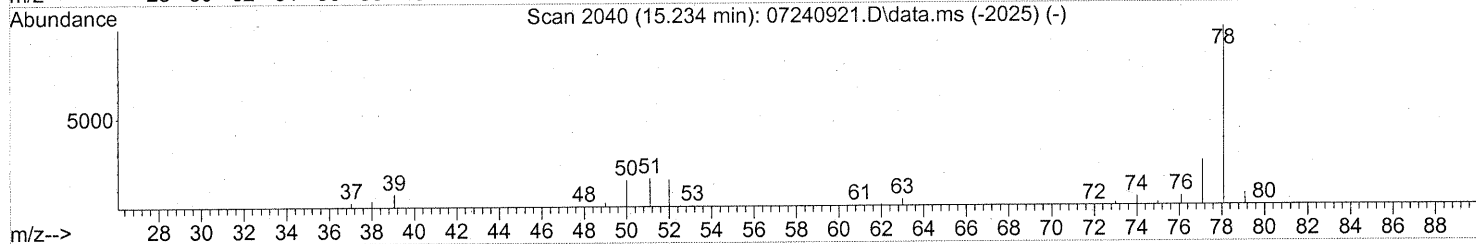
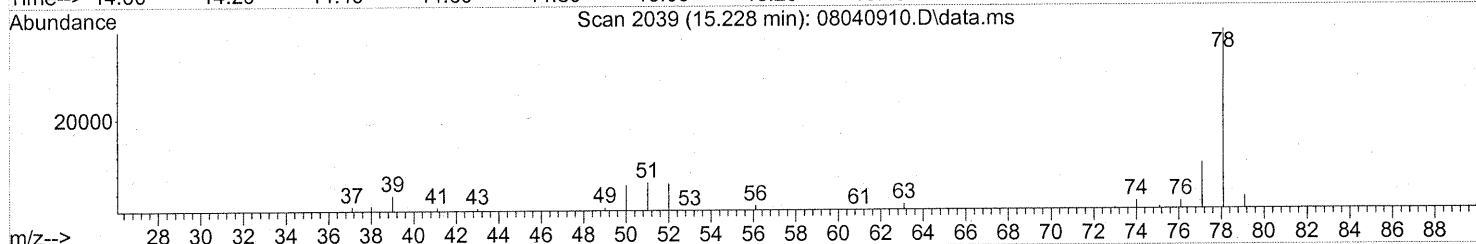
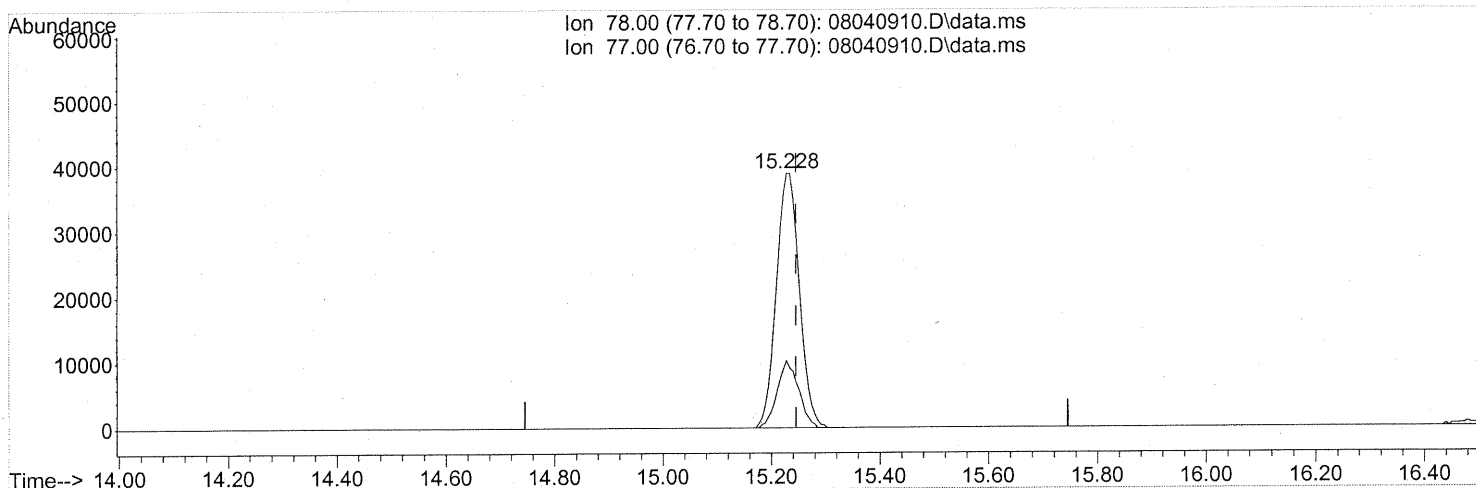
response 22356

Ion	Exp%	Act%
96.90	100	100
98.90	63.60	63.39
61.00	43.50	42.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(41) Benzene (T)

15.228min (-0.017) 1.25ng

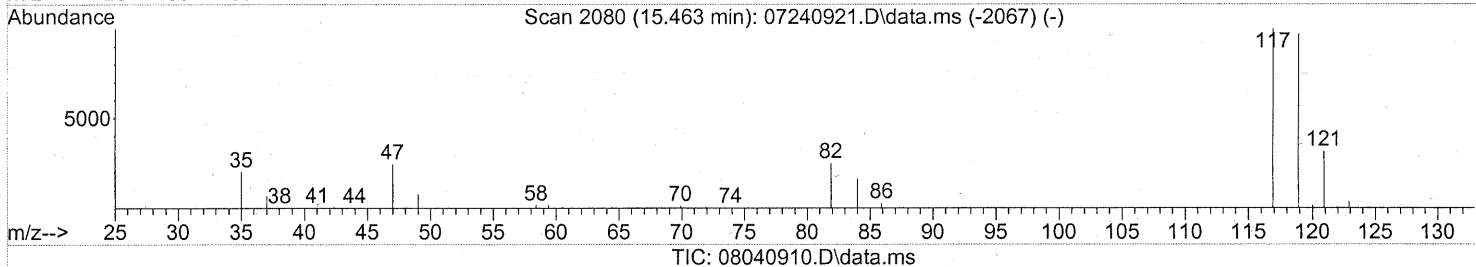
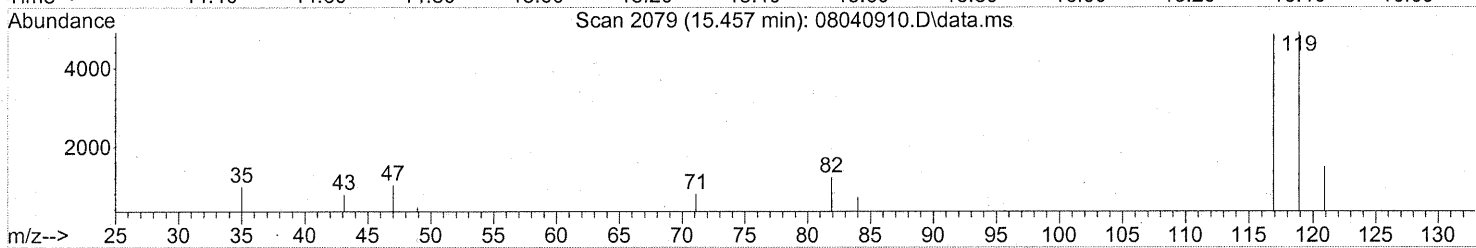
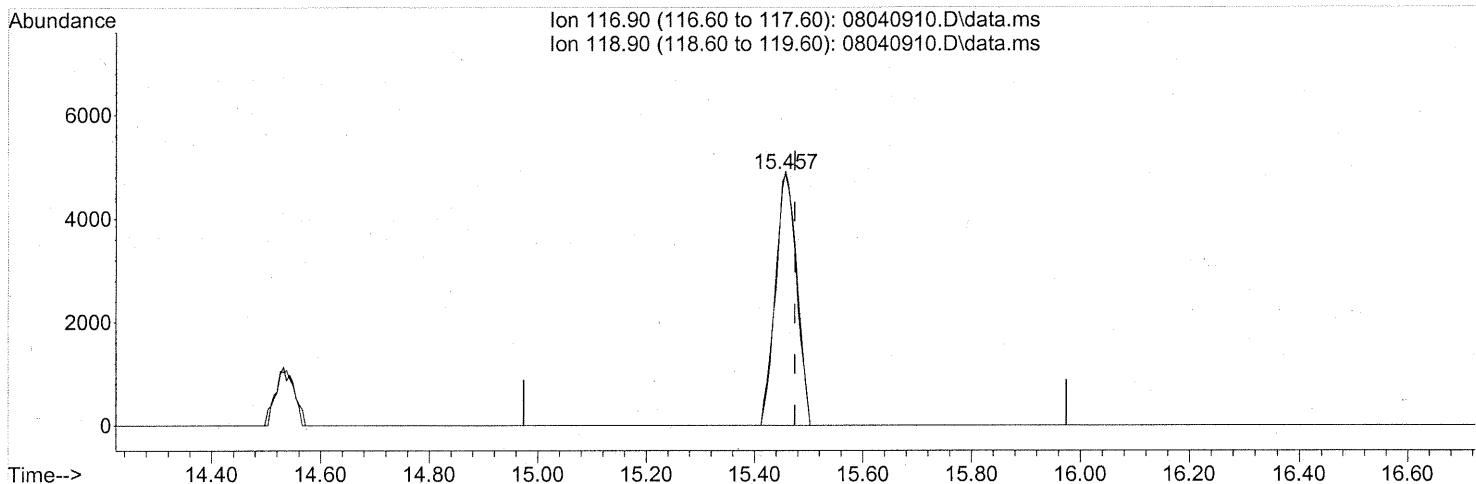
response 113994

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040910.D
Acq On : 4 Aug 2009 13:10
Operator : EM
Sample : P0902624-002 (1000ml)
Misc : Environmental H & E 99442
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.49ng

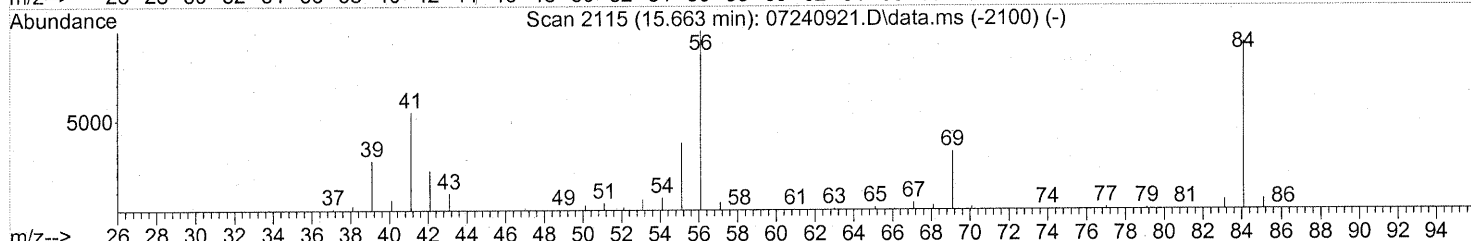
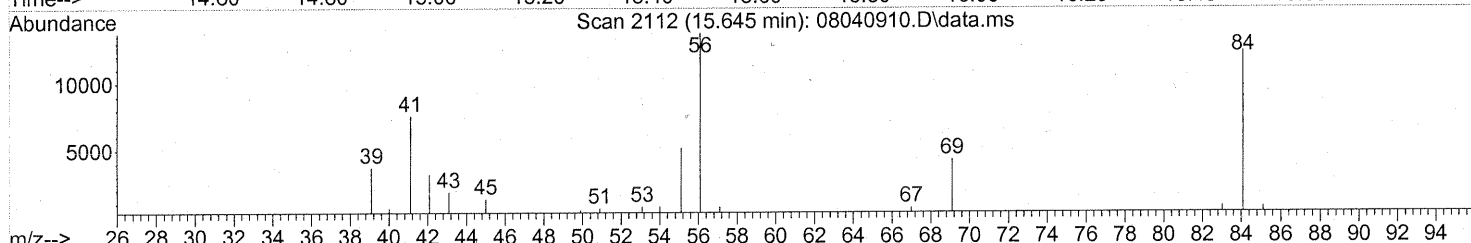
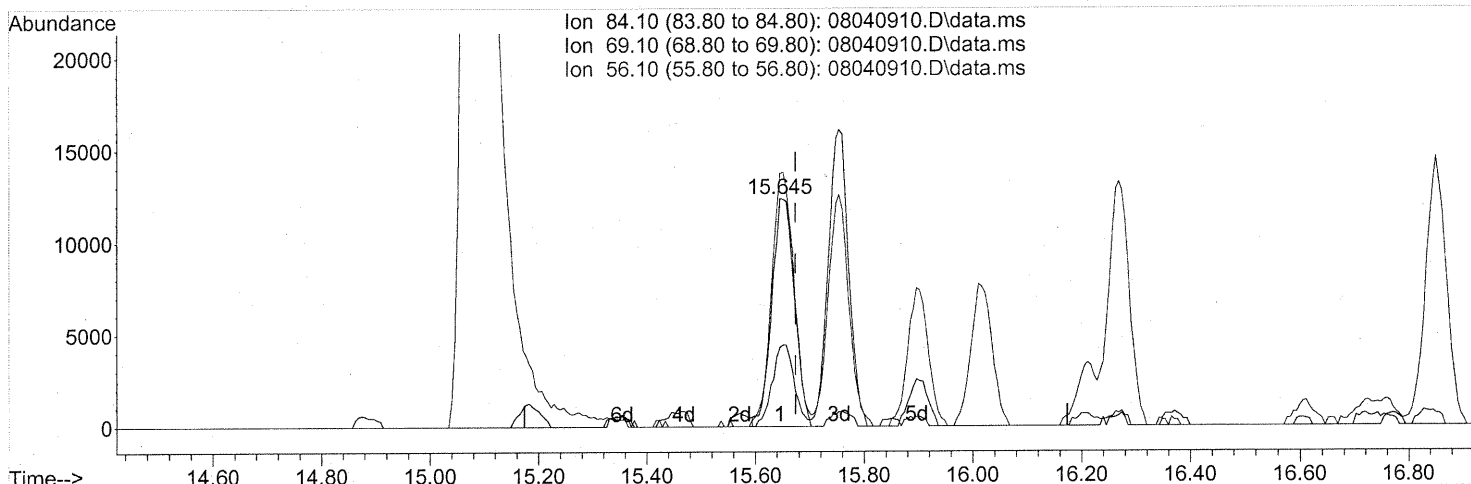
response 13189

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	99.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(43) Cyclohexane (T)

15.645min (-0.029) 1.04ng

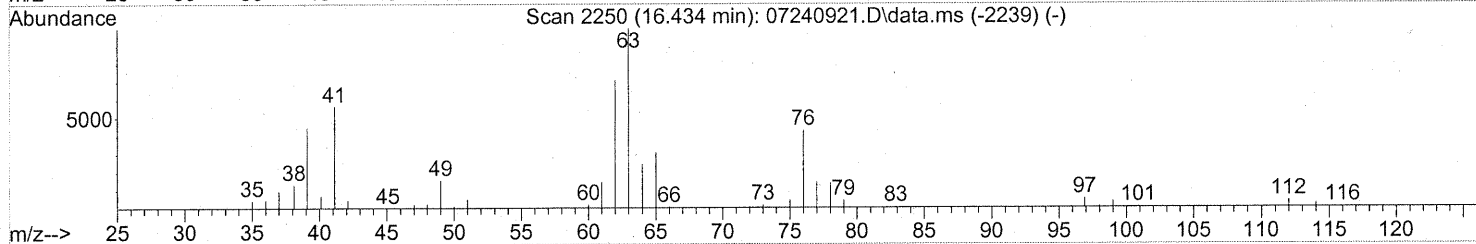
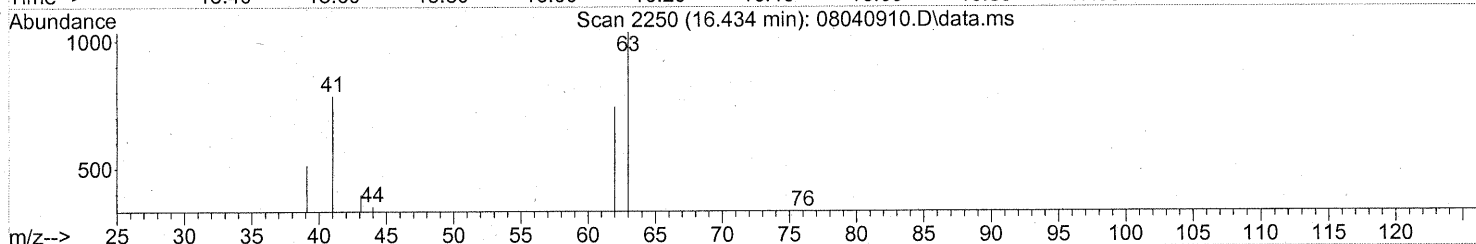
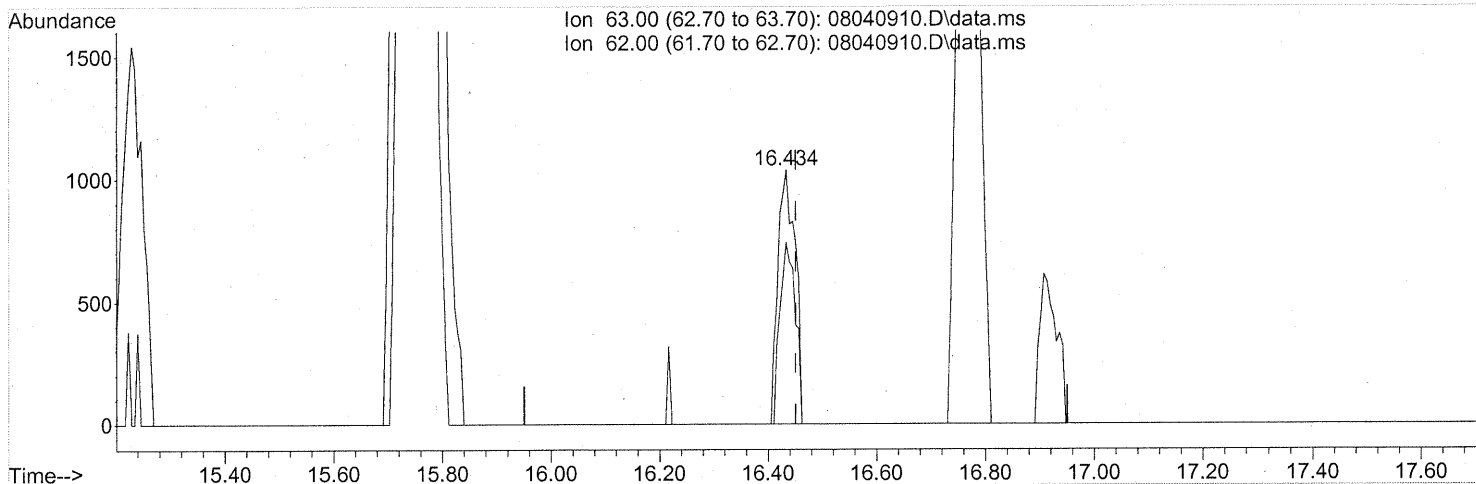
response 35451

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	34.79
56.10	107.30	112.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.434min (-0.017) 0.12ng

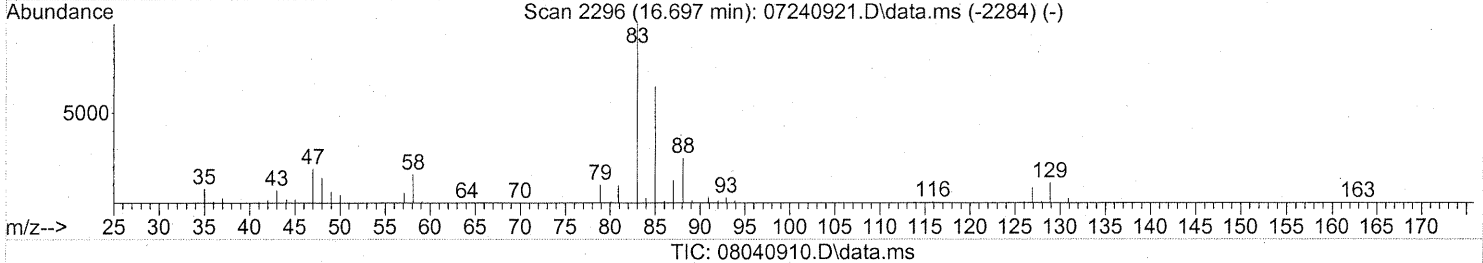
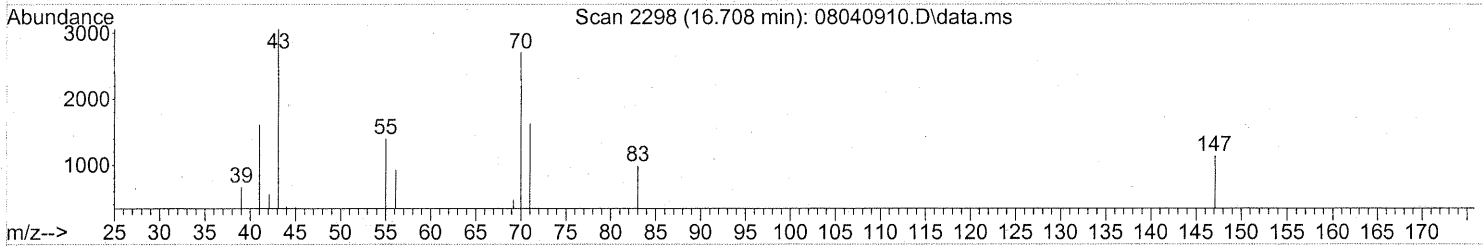
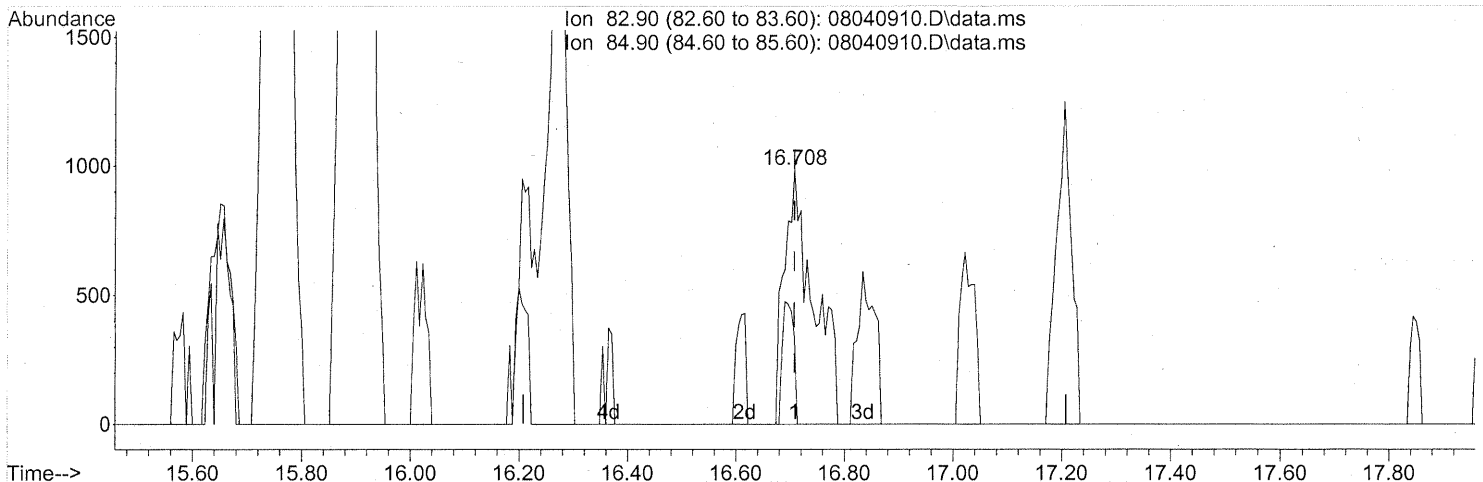
response 2286

Ion	Exp%	Act%
63.00	100	100
62.00	71.00	63.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:04 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.708min (-0.000) 0.14ng

response 3678

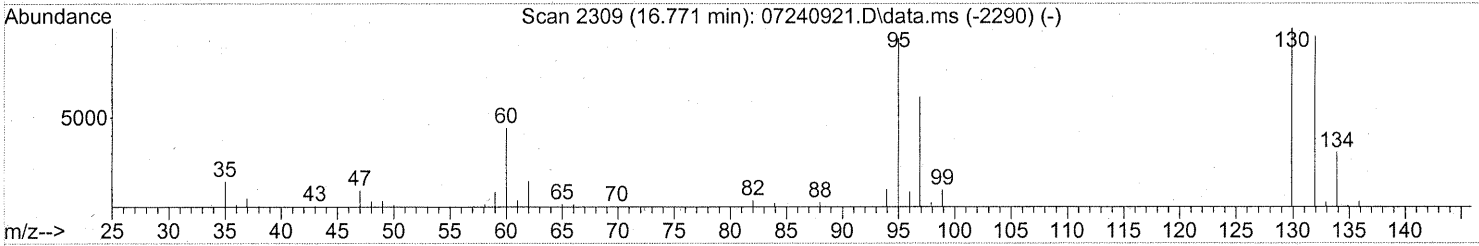
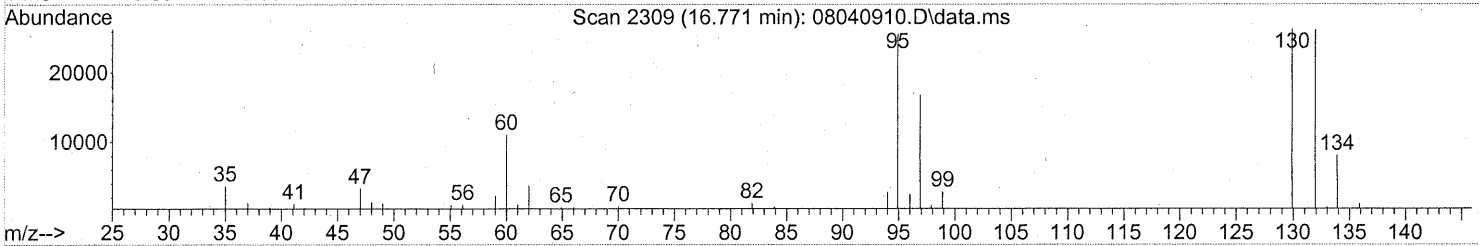
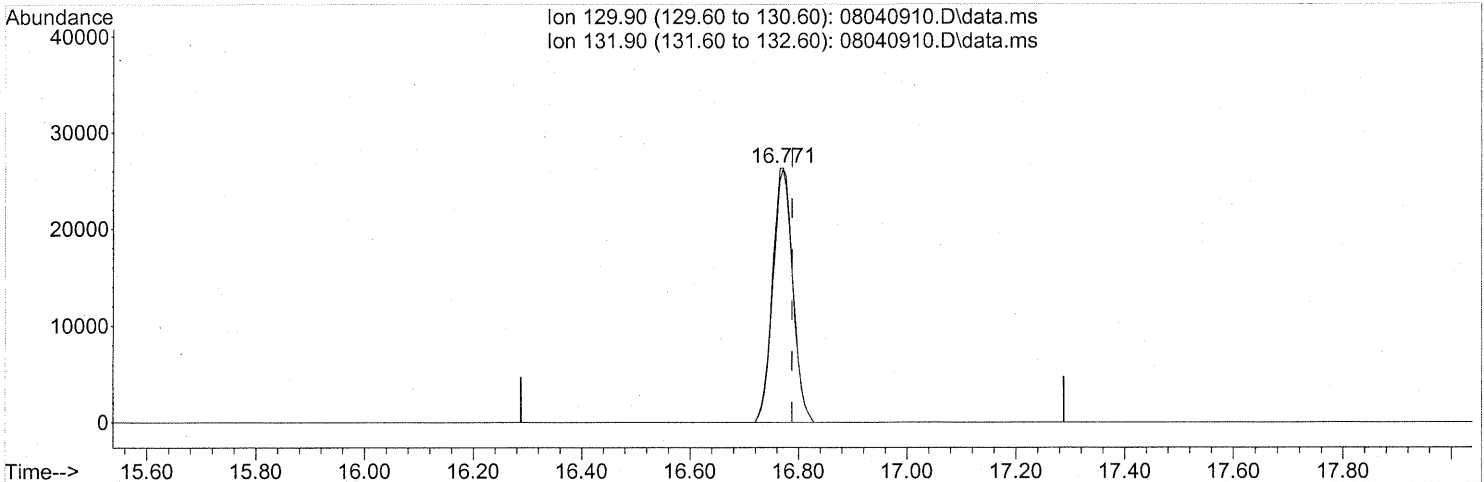
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	18.81#
0.00	0.00	0.00
0.00	0.00	0.00

FP Em 8/6/09
11 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

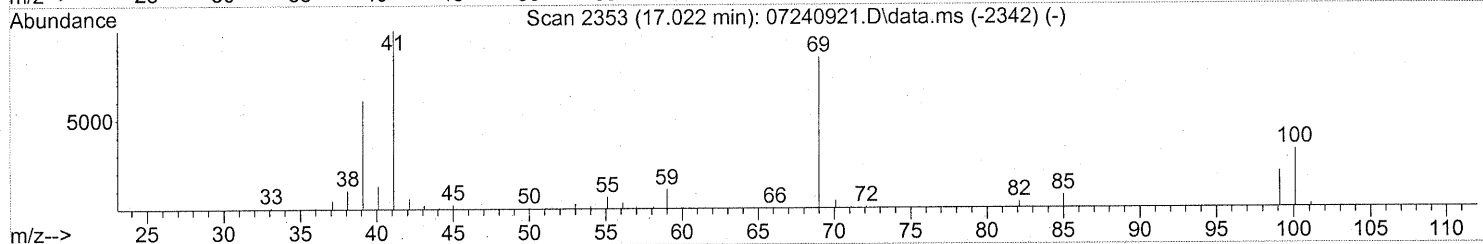
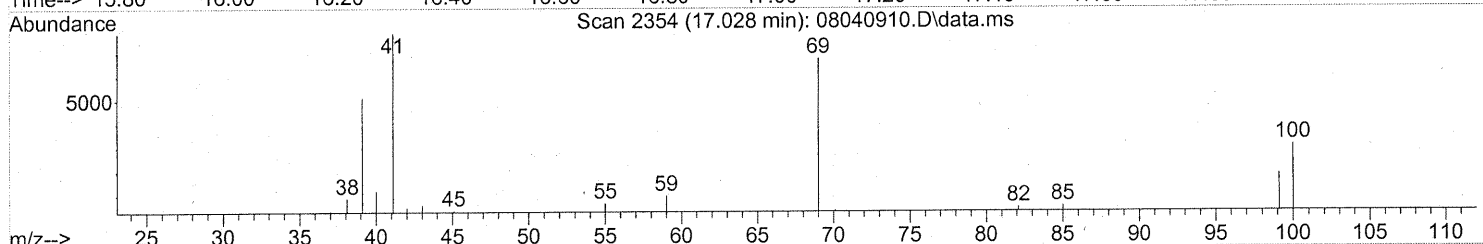
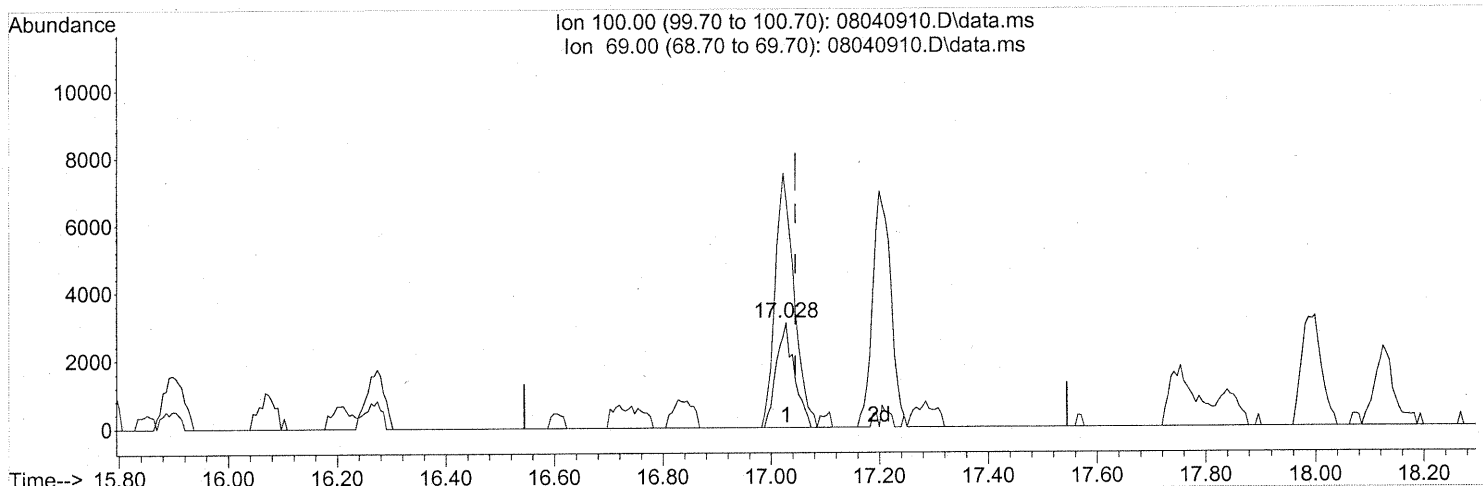
(47) Trichloroethene (T)
 16.771min (-0.017) 2.95ng
 response 68852

Ion	Exp%	Act%
129.90	100	100
131.90	95.60	94.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

17.028min (-0.017) 0.82ng

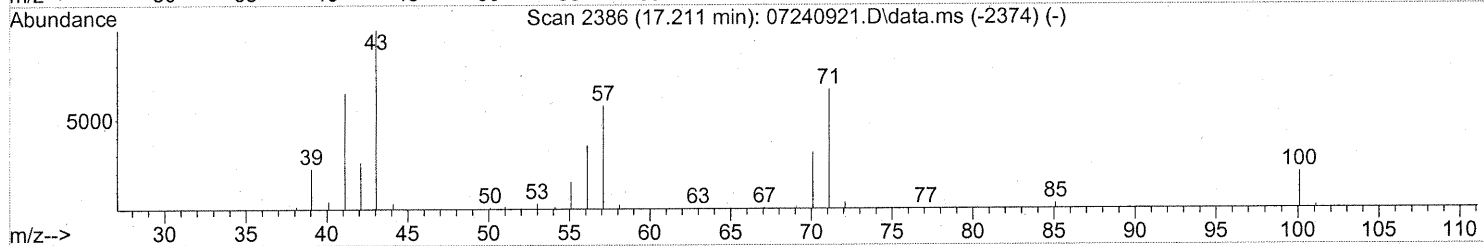
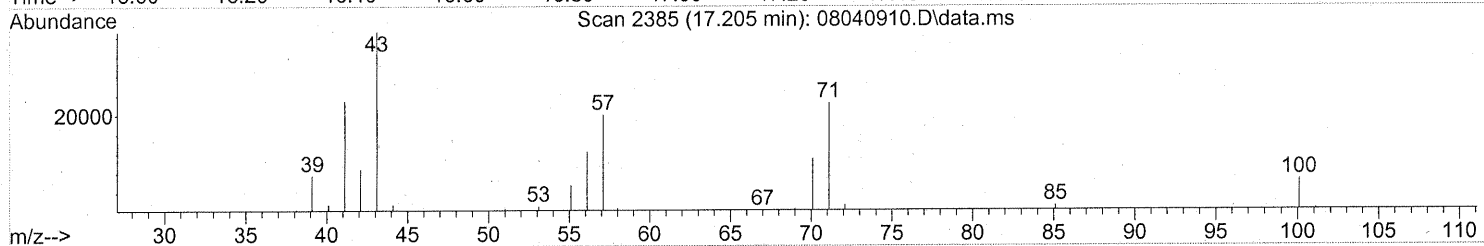
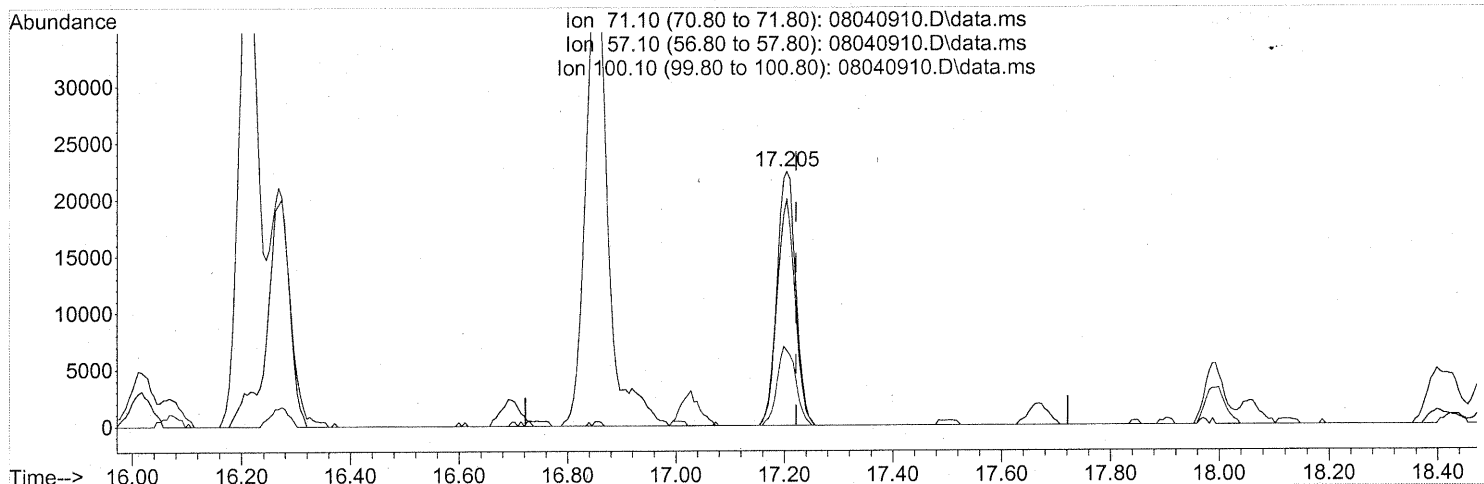
response 7045

Ion	Exp%	Act%
100.00	100	100
69.00	261.10	257.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(51) n-Heptane (T)

17.205min (-0.017) 2.43ng

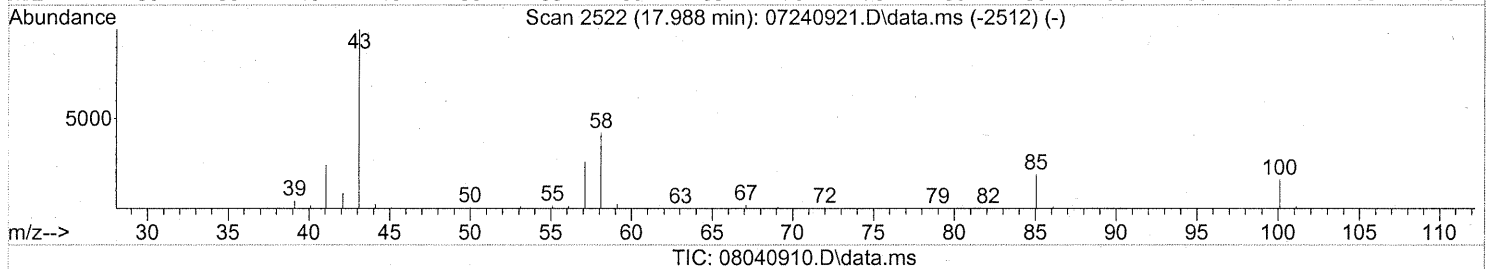
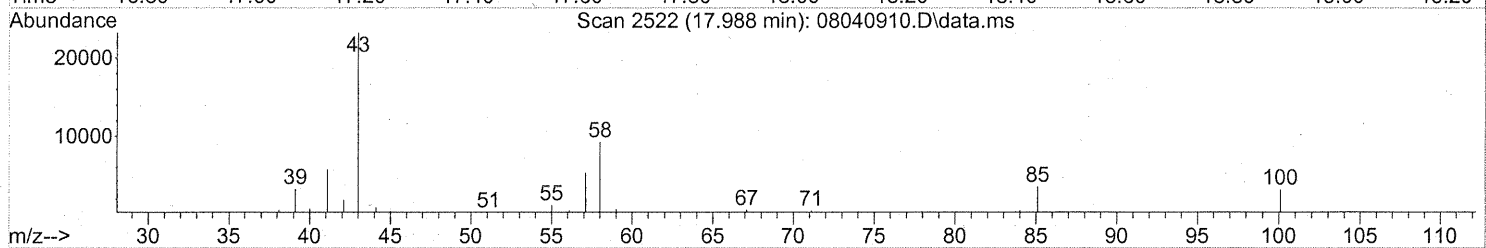
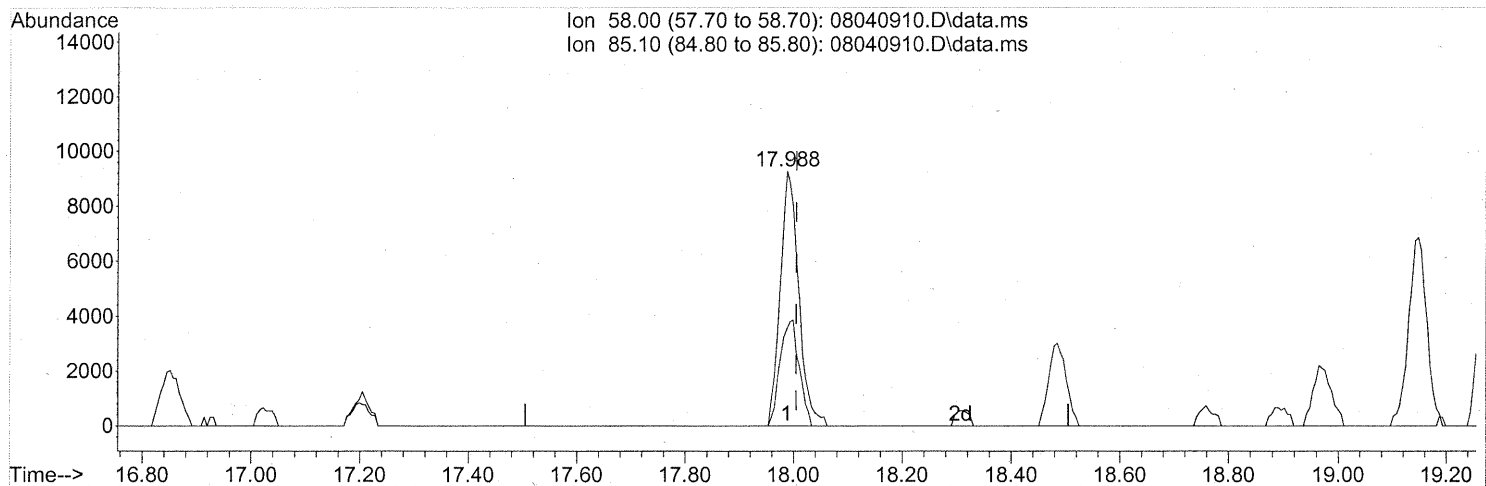
response 53647

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	85.30
100.10	30.70	30.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

17.988min (-0.017) 1.26ng

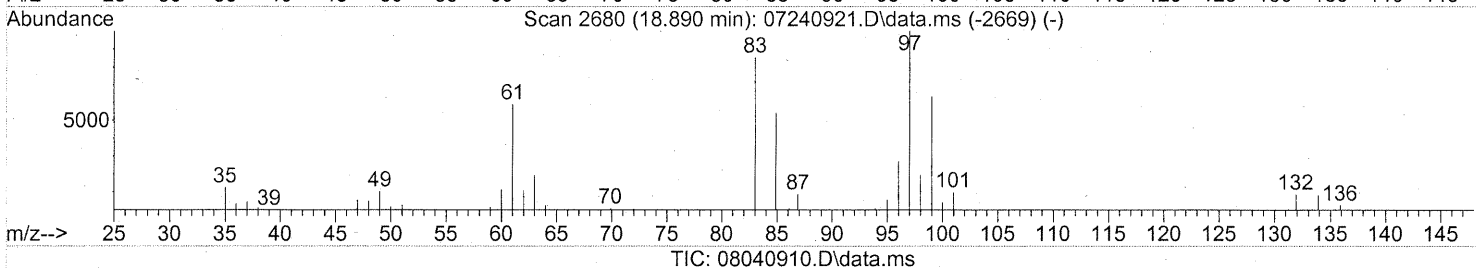
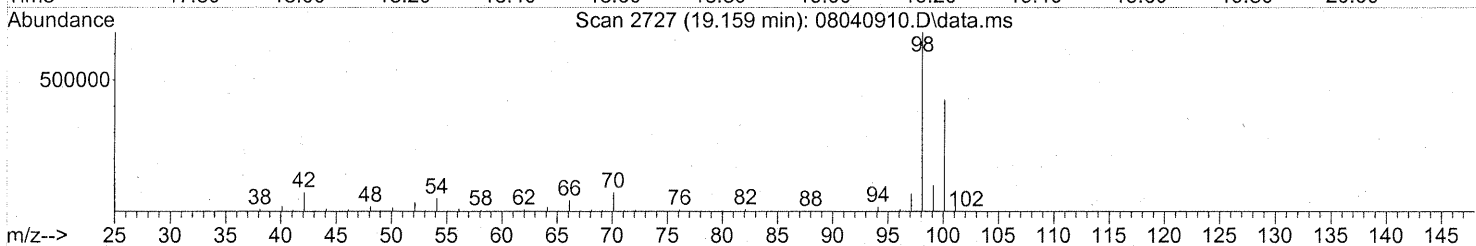
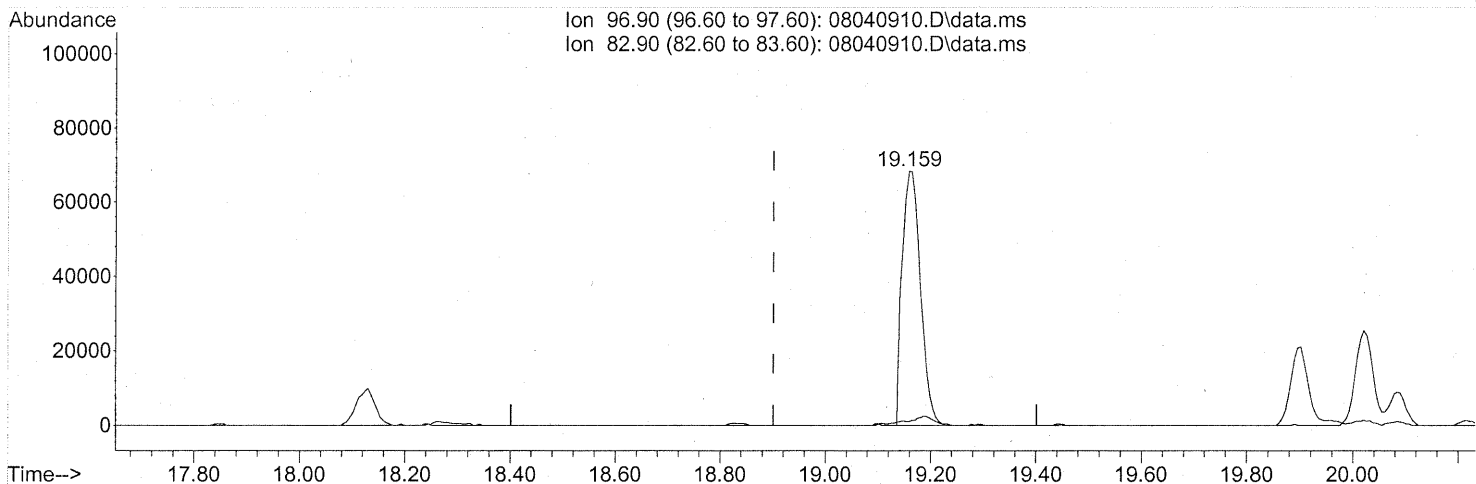
response 21785

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	42.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:04 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

19.159min (+0.257) 8.56ng

response 164150

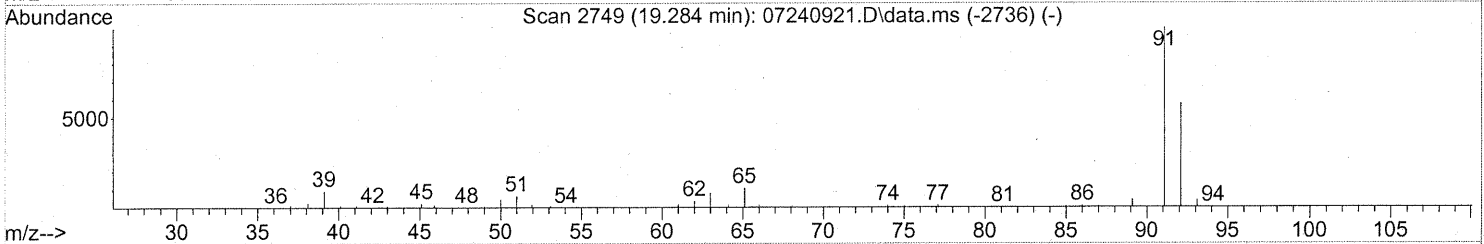
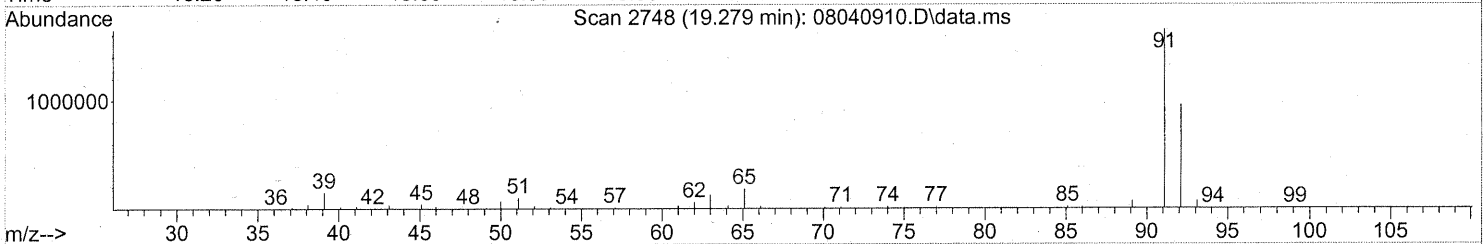
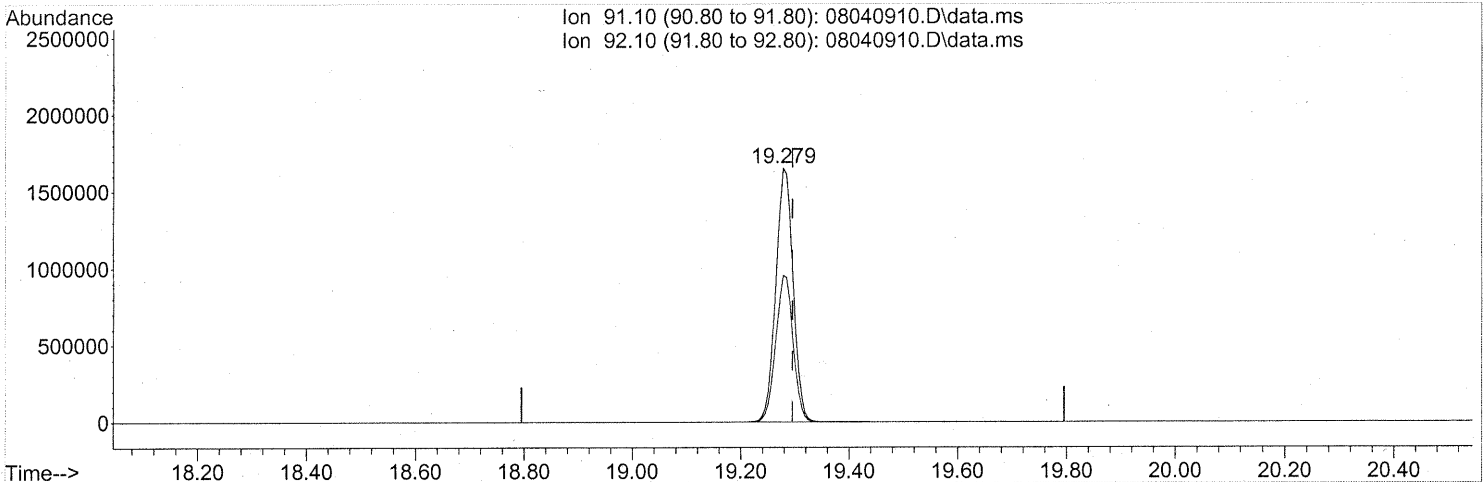
Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.23#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/6/09
UM 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

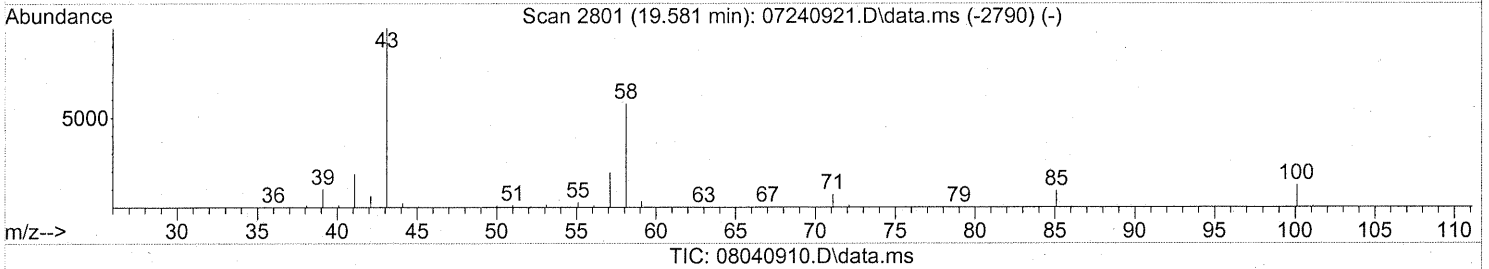
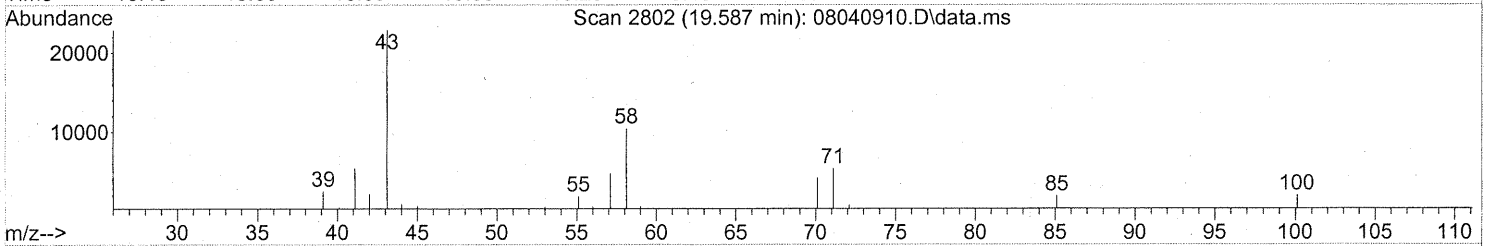
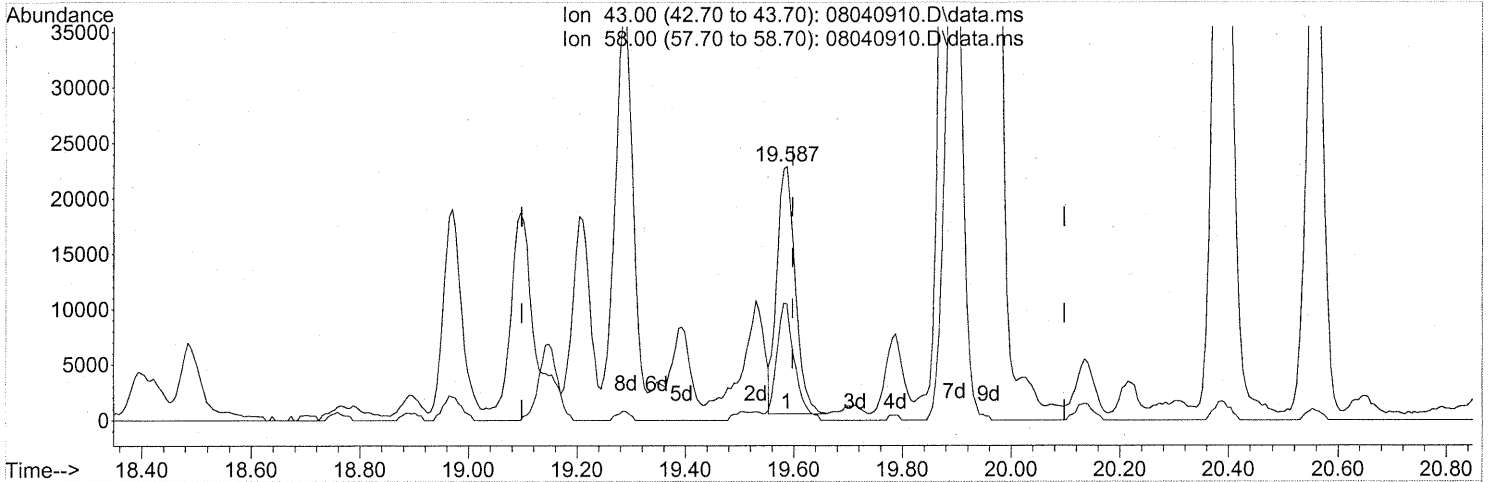
(58) Toluene (T)
 19.279min (-0.017) 35.70ng
 response 3661522

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



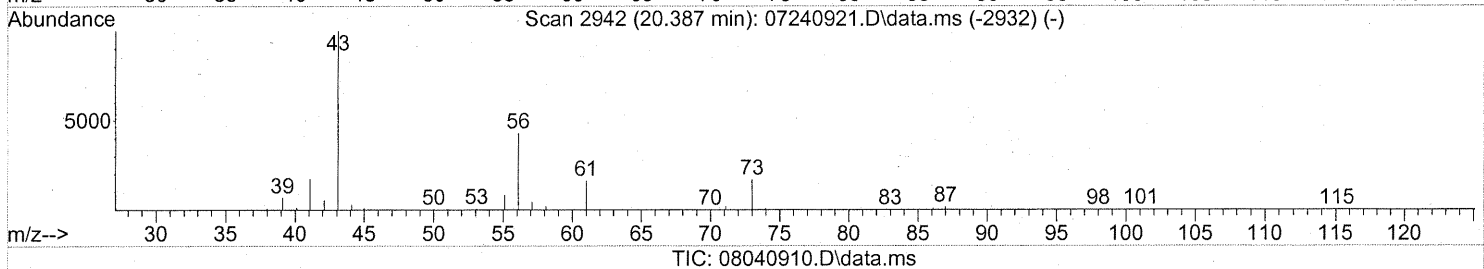
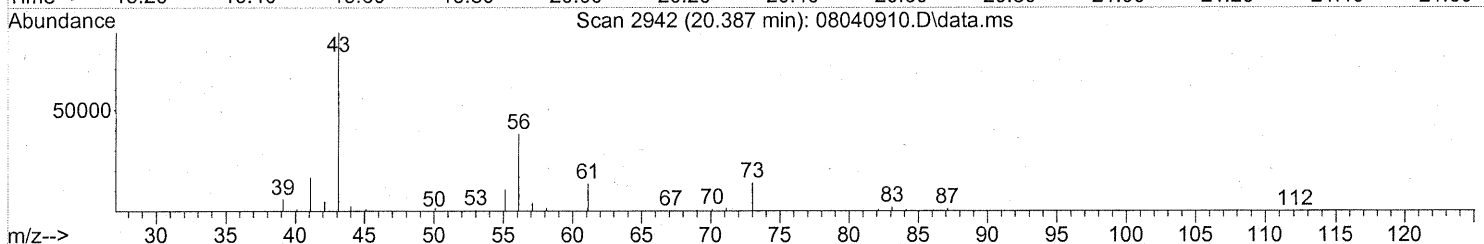
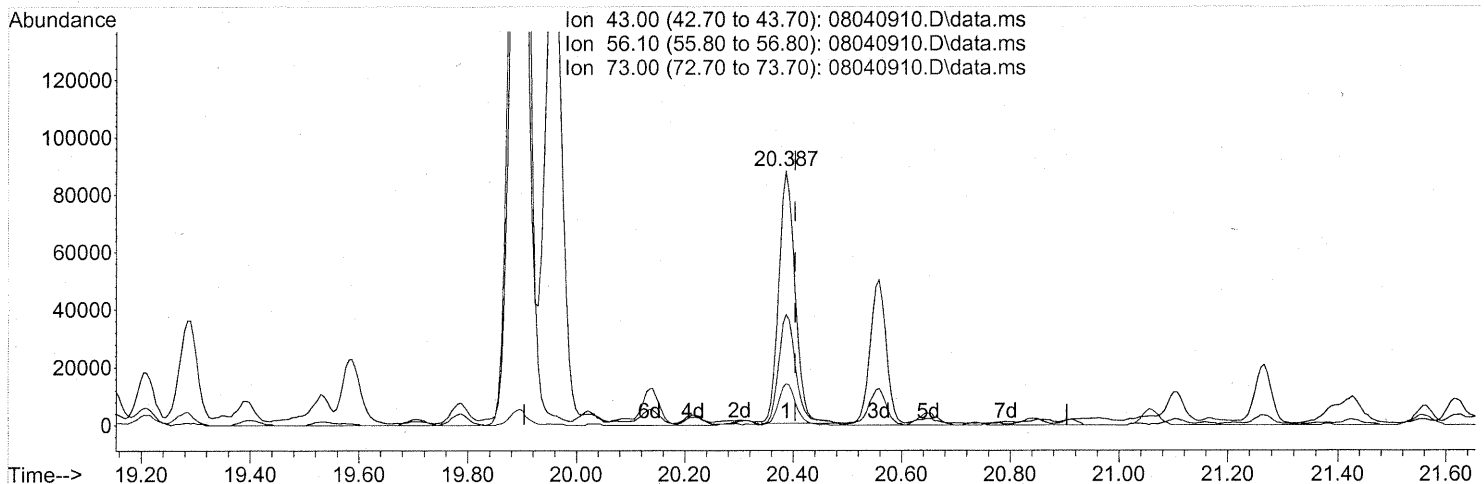
(59) 2-Hexanone (T)
 19.587min (-0.011) 1.19ng
 response 52424

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	46.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



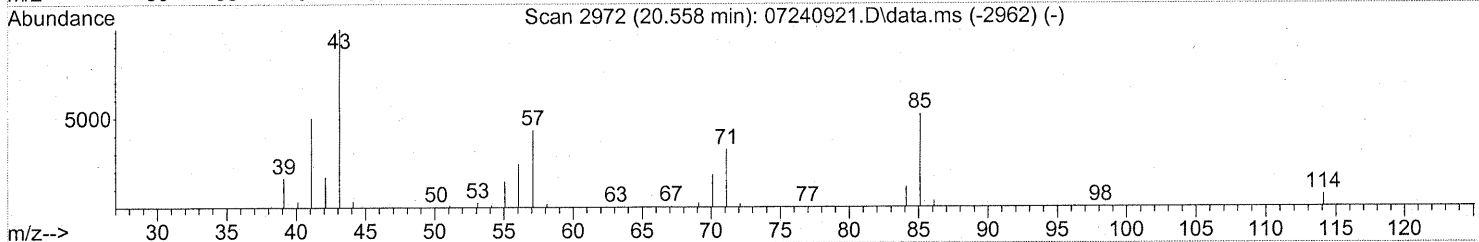
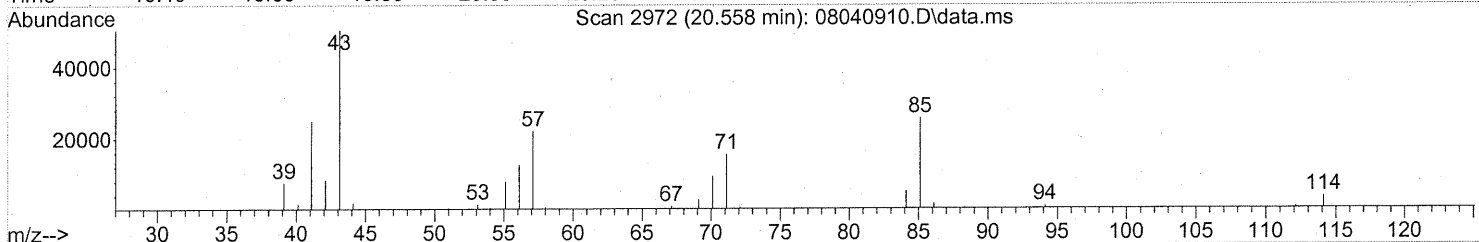
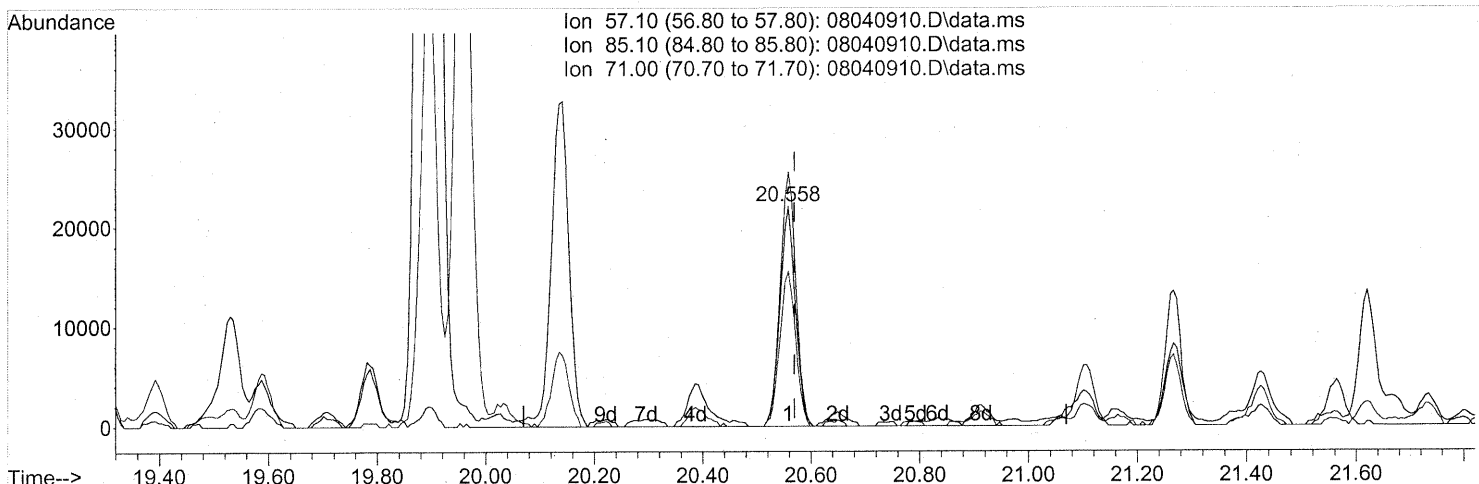
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 3.76ng
 response 184255

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	47.50
73.00	16.90	17.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(63) n-Octane (T)

20.558min (-0.012) 2.19ng

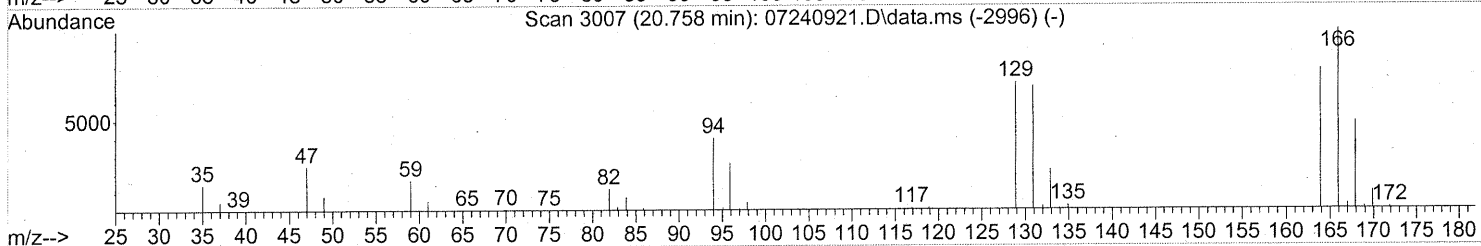
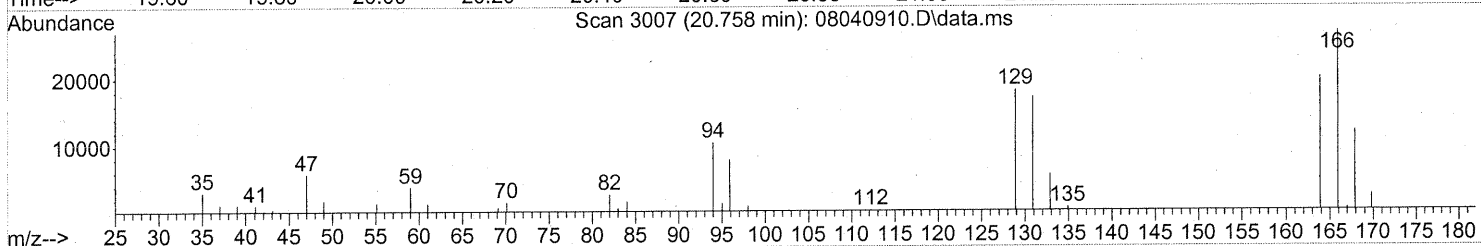
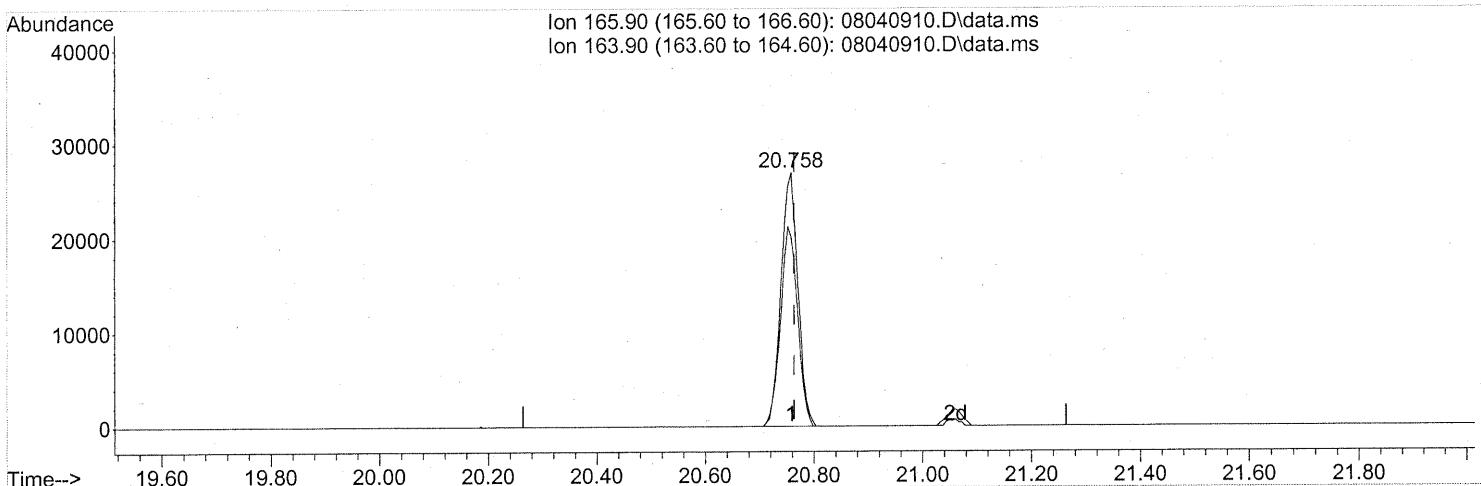
response 43903

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	117.96
71.00	75.10	72.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(64) Tetrachloroethene (T)

20.758min (-0.006) 2.16ng

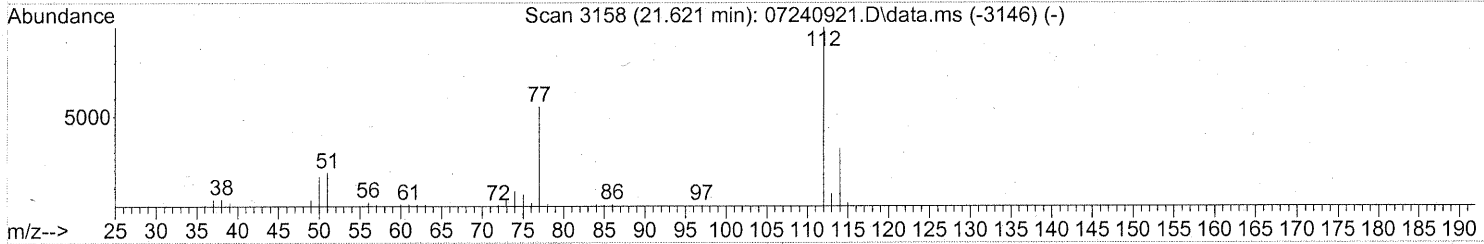
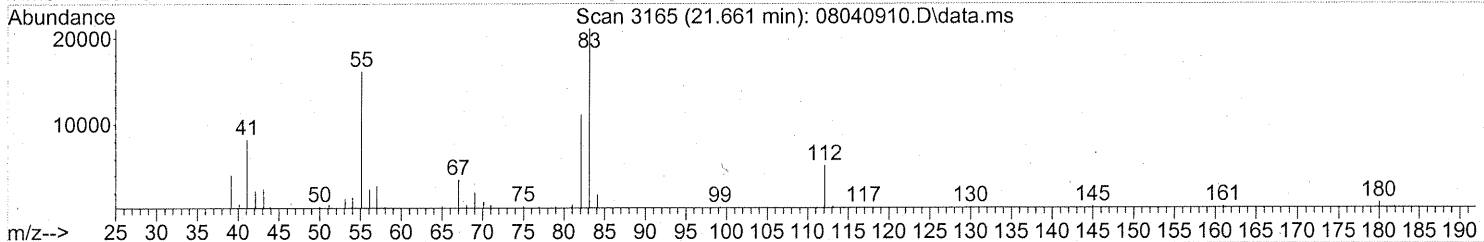
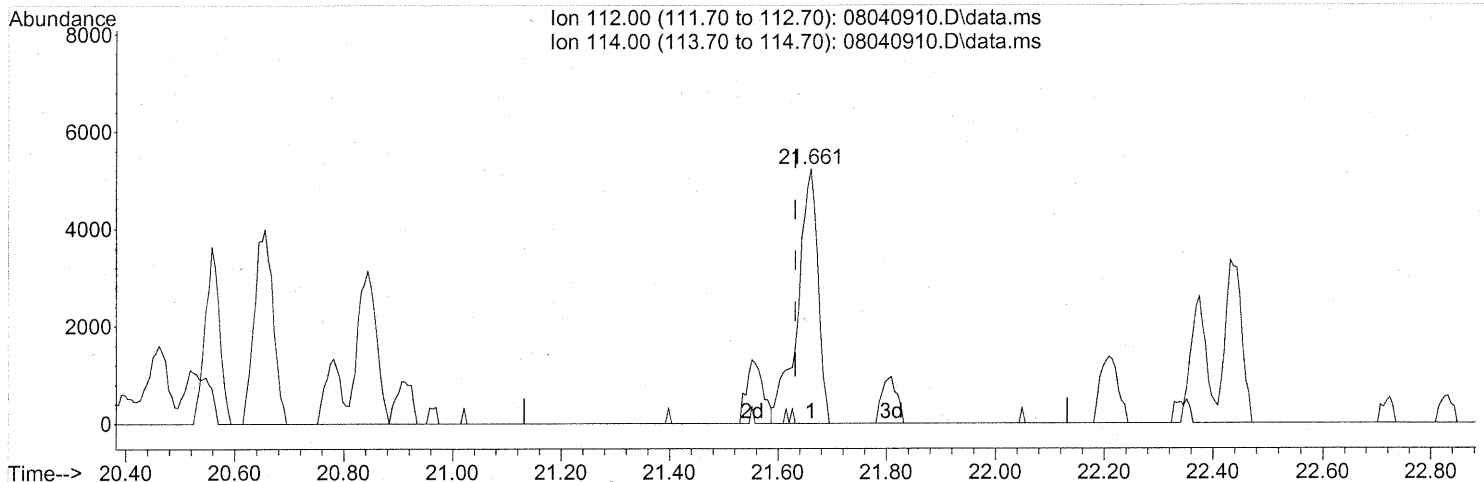
response 58490

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	78.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:04 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.661min (+0.029) 0.21ng
 response 13650

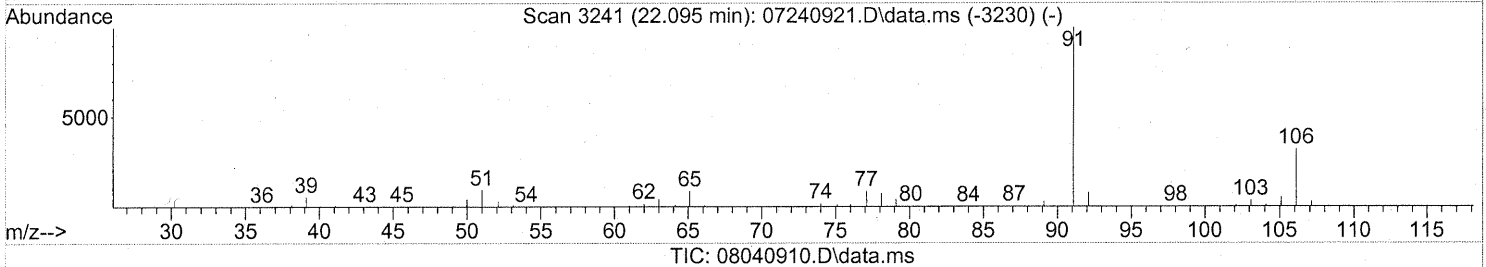
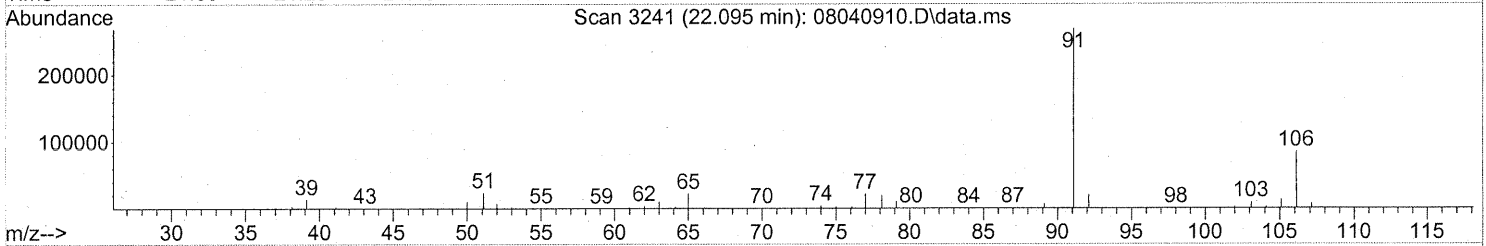
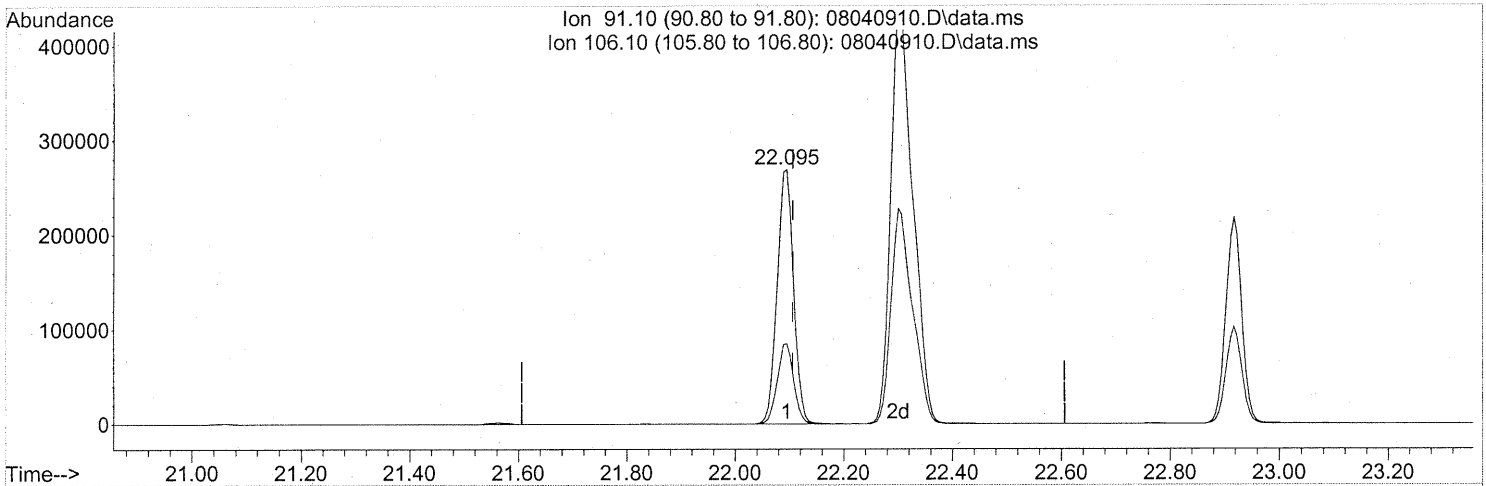
Ion	Exp%	Act%
112.00	100	100
114.00	32.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/6/09
mm 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



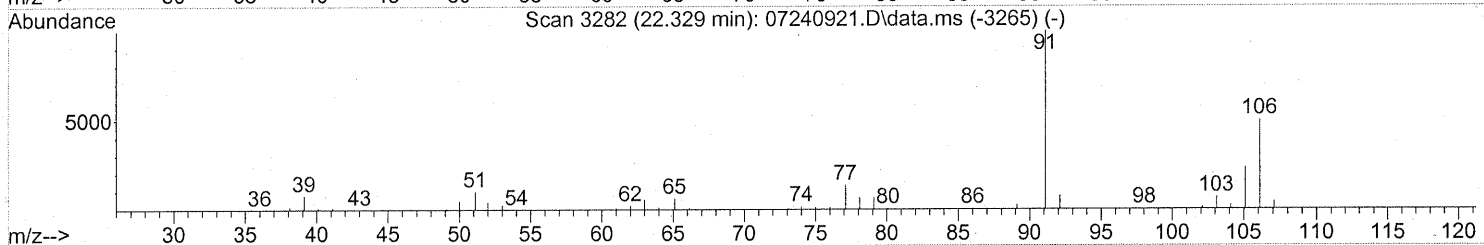
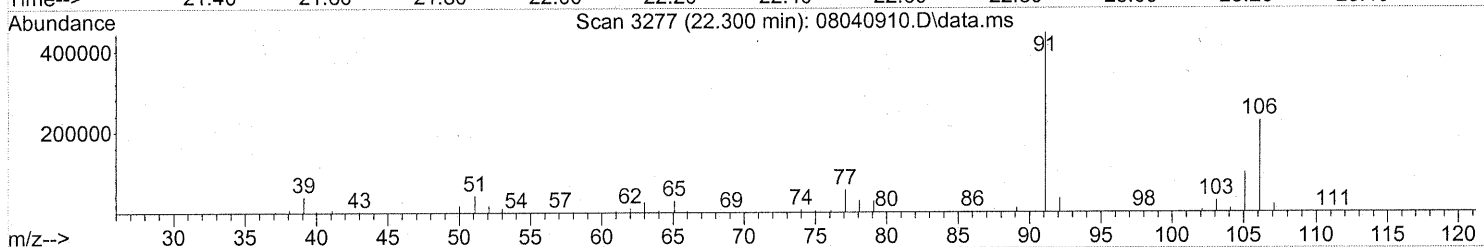
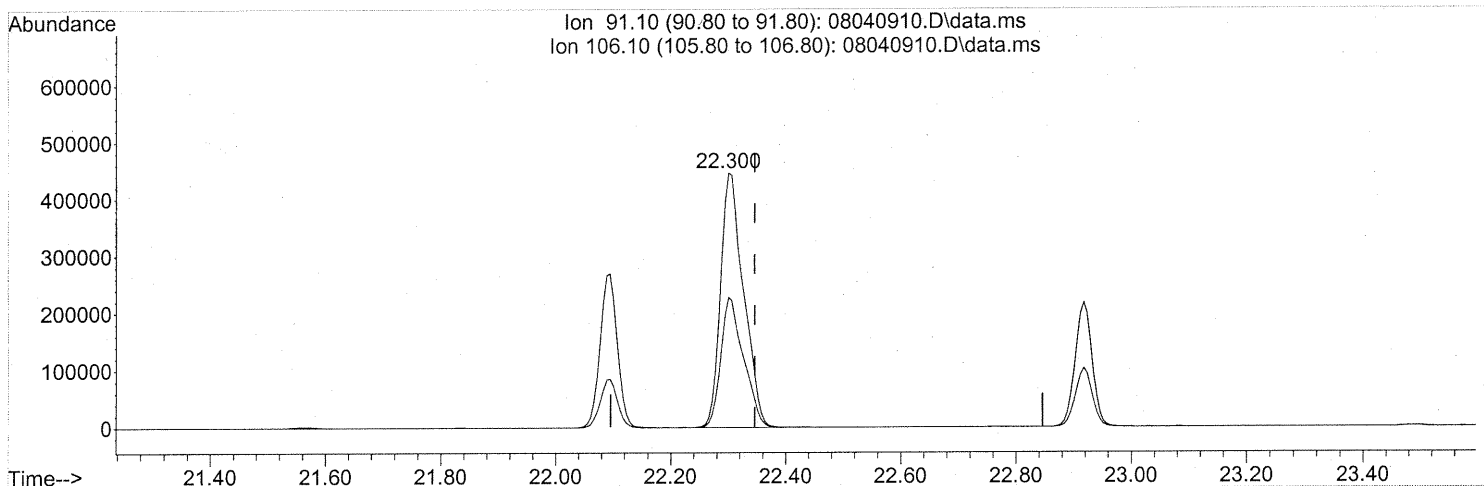
(66) Ethylbenzene (T)
 22.095min (-0.012) 5.05ng
 response 562782

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	31.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

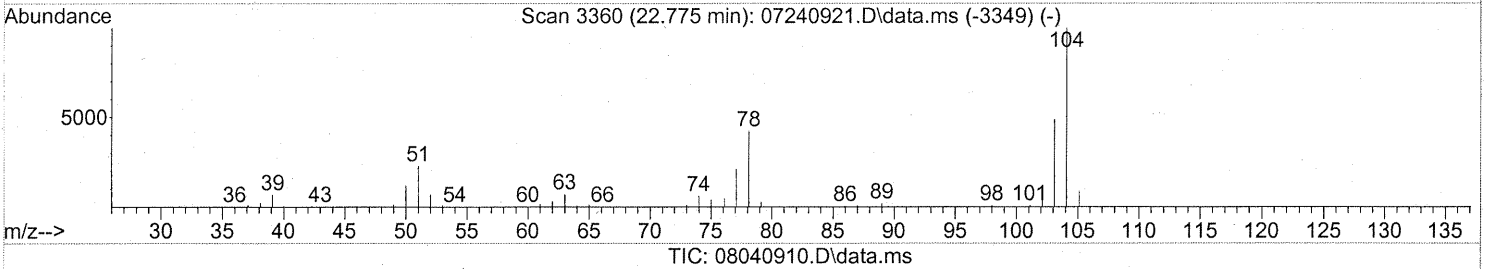
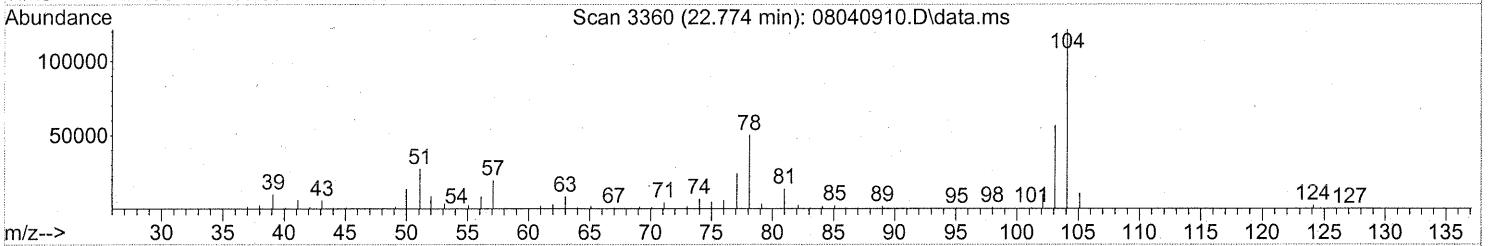
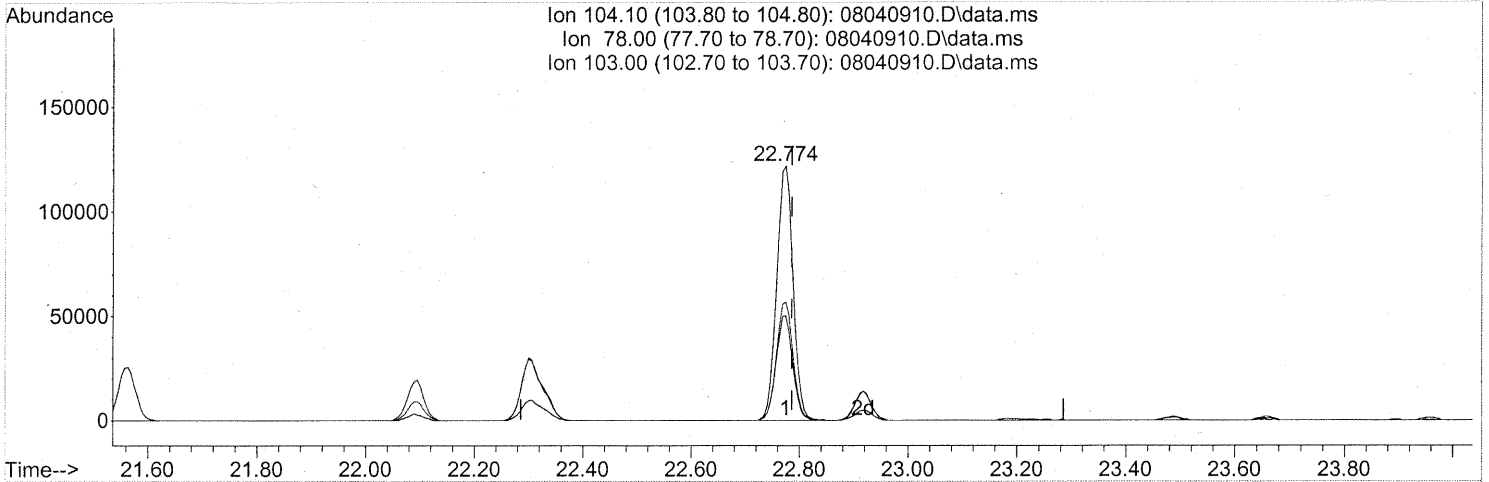
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 13.55ng
 response 1245994

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	50.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



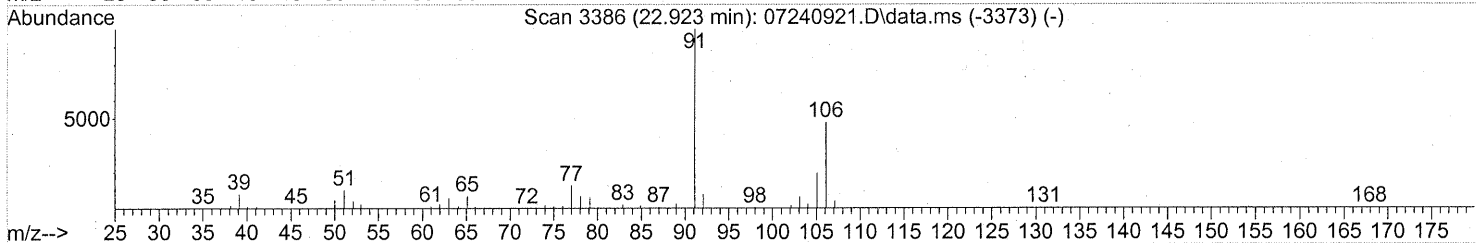
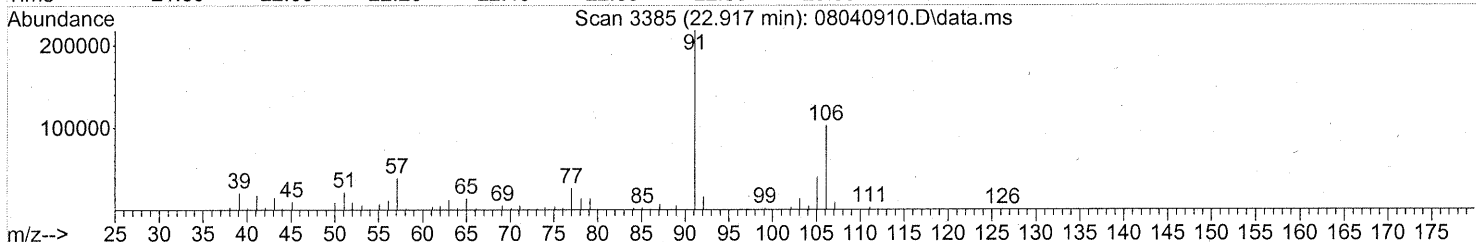
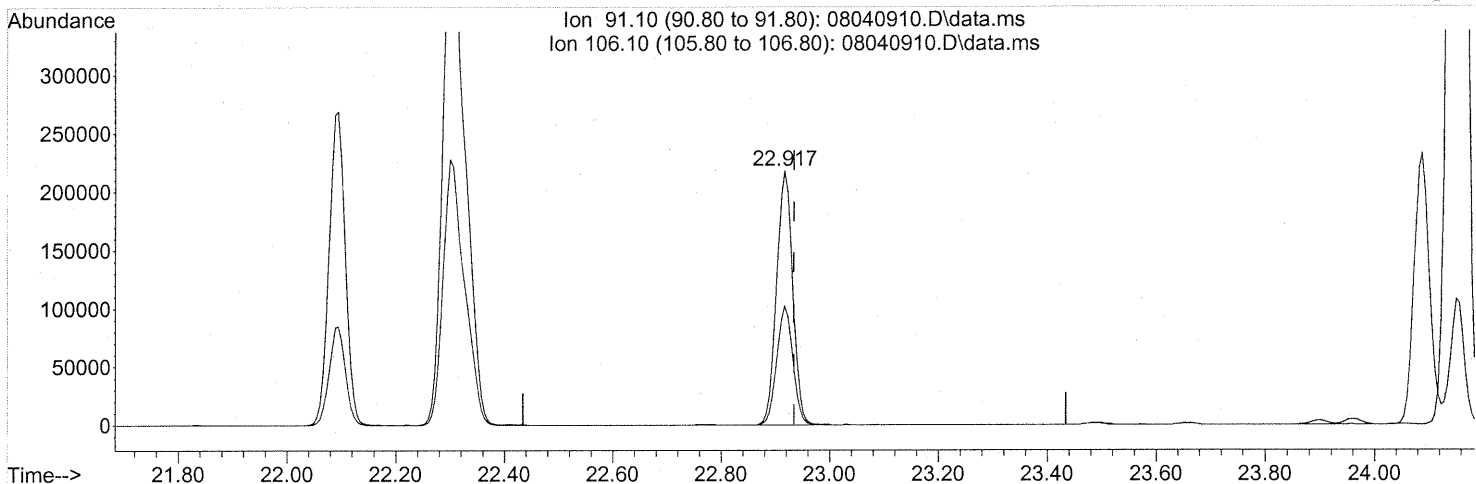
(69) Styrene (T)
 22.774min (-0.012) 3.76ng
 response 254841

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.67
103.00	48.70	47.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(70) o-Xylene (T)

22.917min (-0.017) 4.88ng

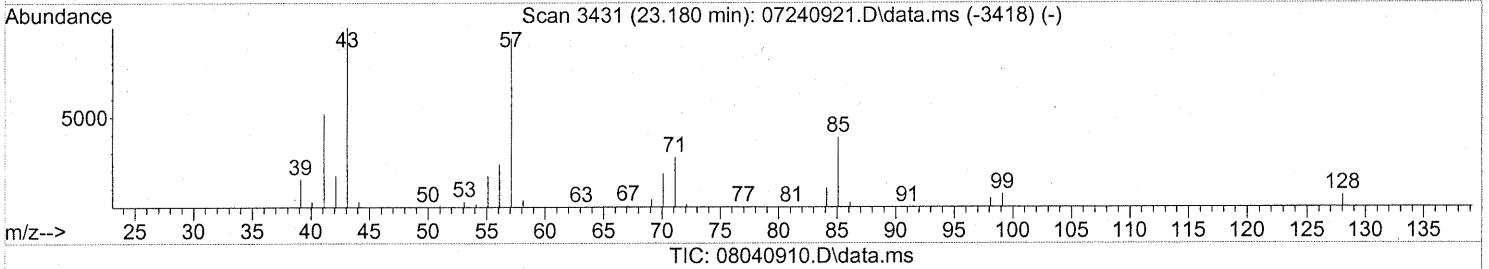
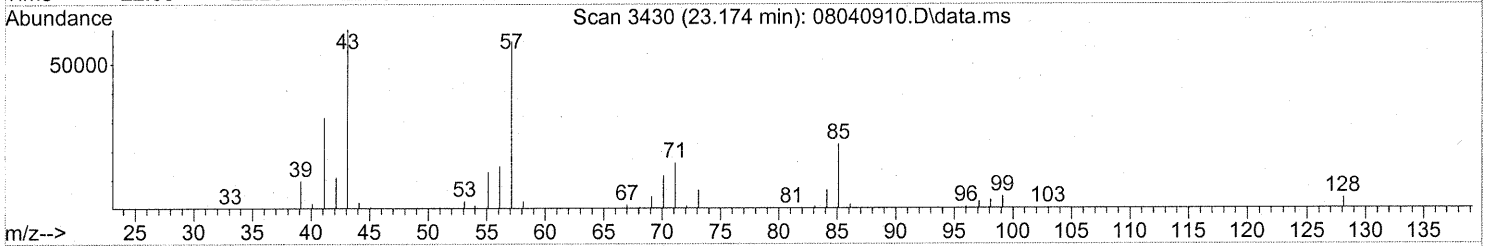
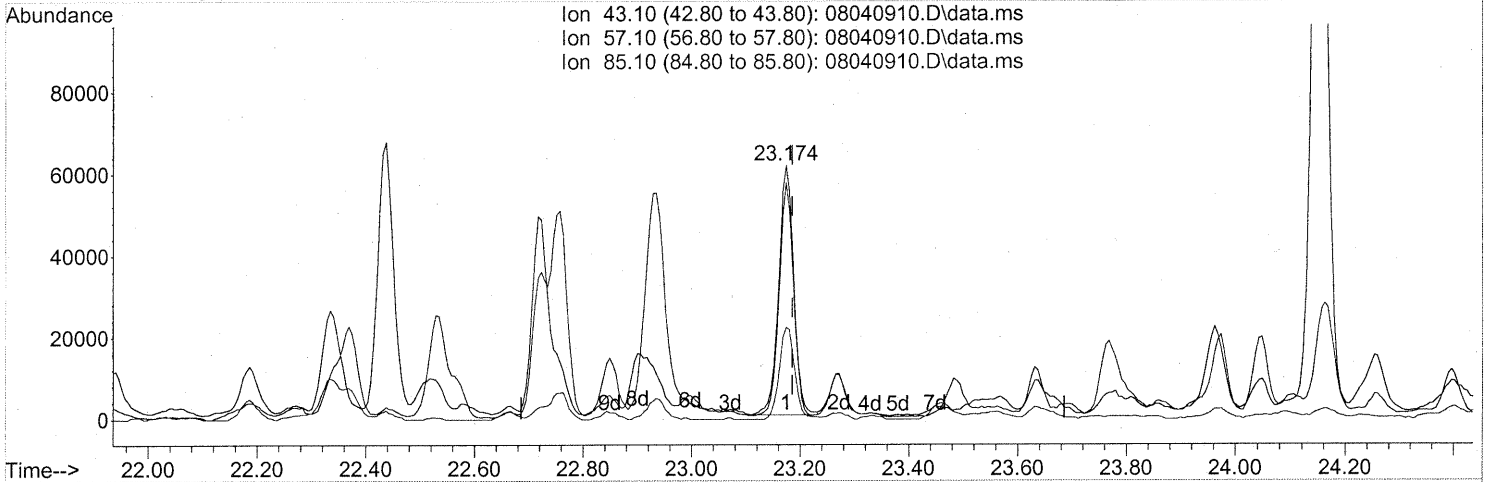
response 447275

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



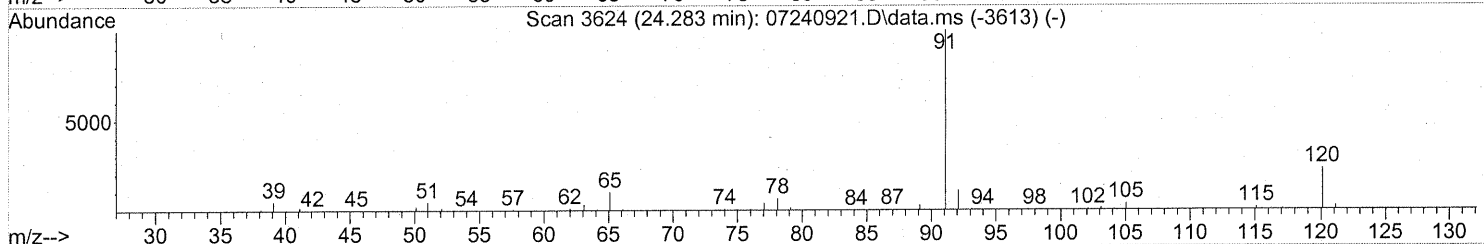
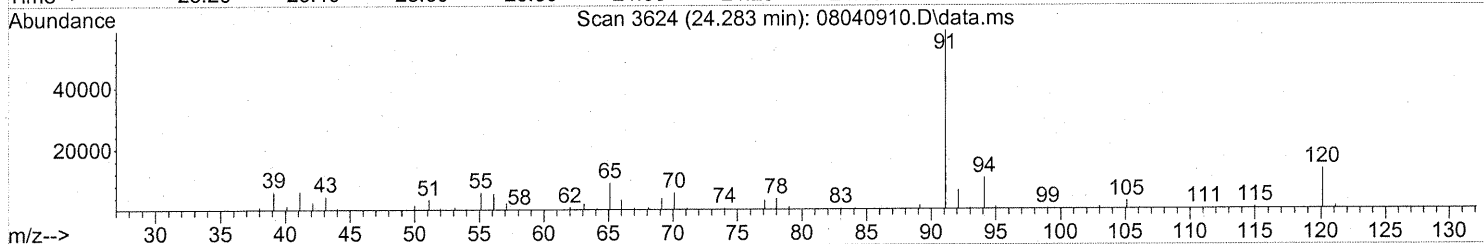
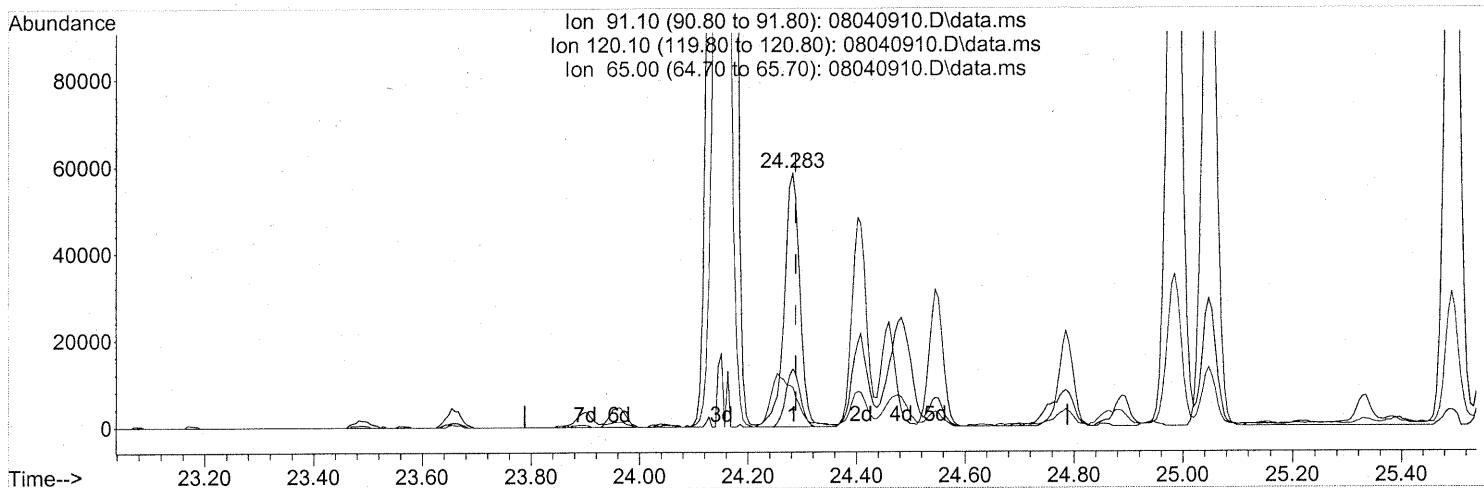
(71) n-Nonane (T)
 23.174min (-0.011) 2.65ng
 response 118432

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	88.90
85.10	38.80	37.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.006) 0.80ng

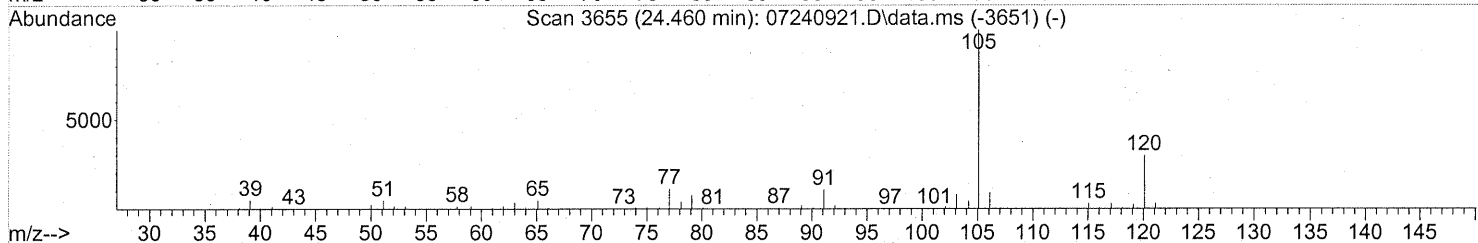
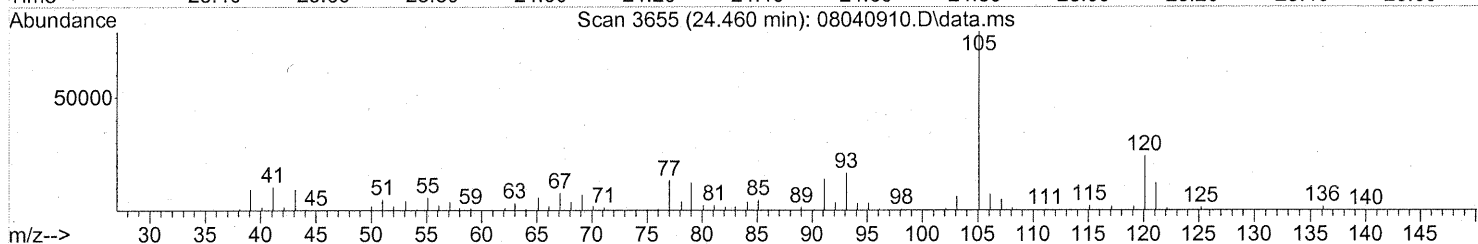
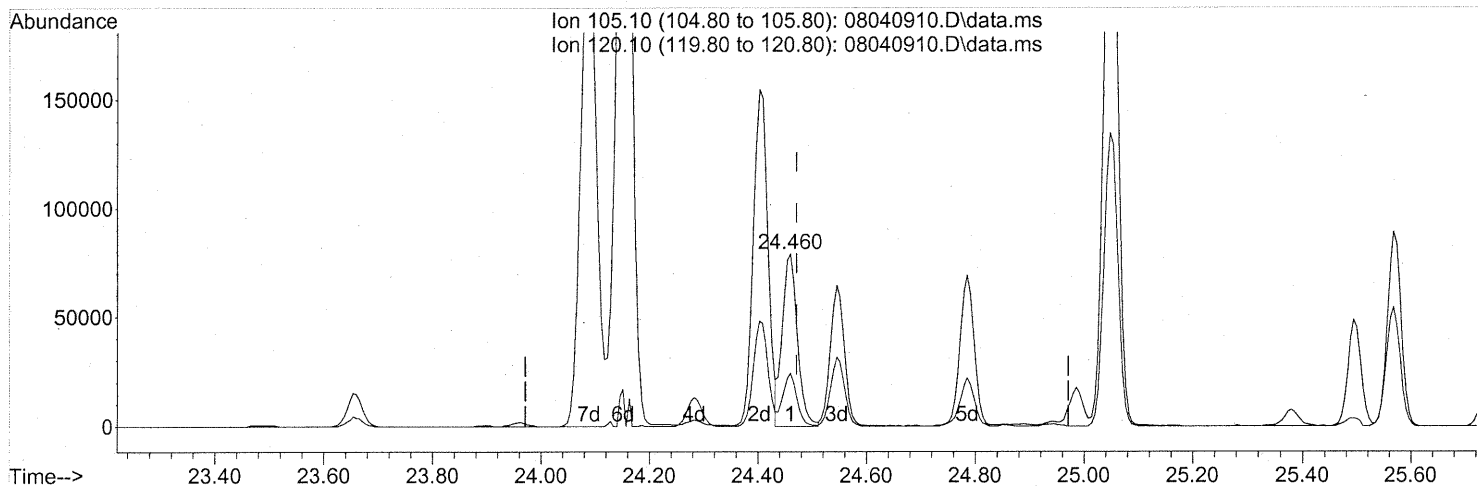
response 117647

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	20.81
65.00	10.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



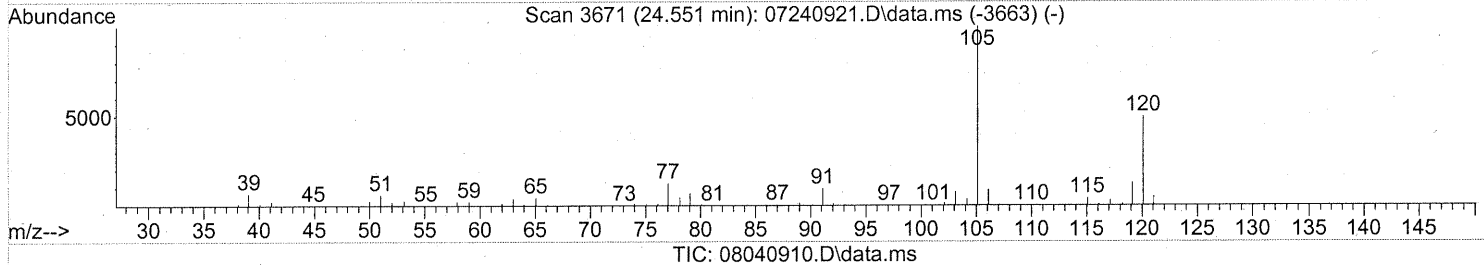
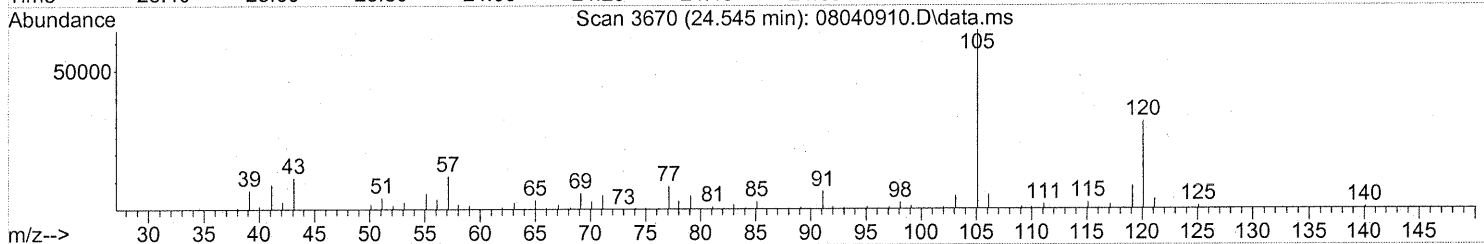
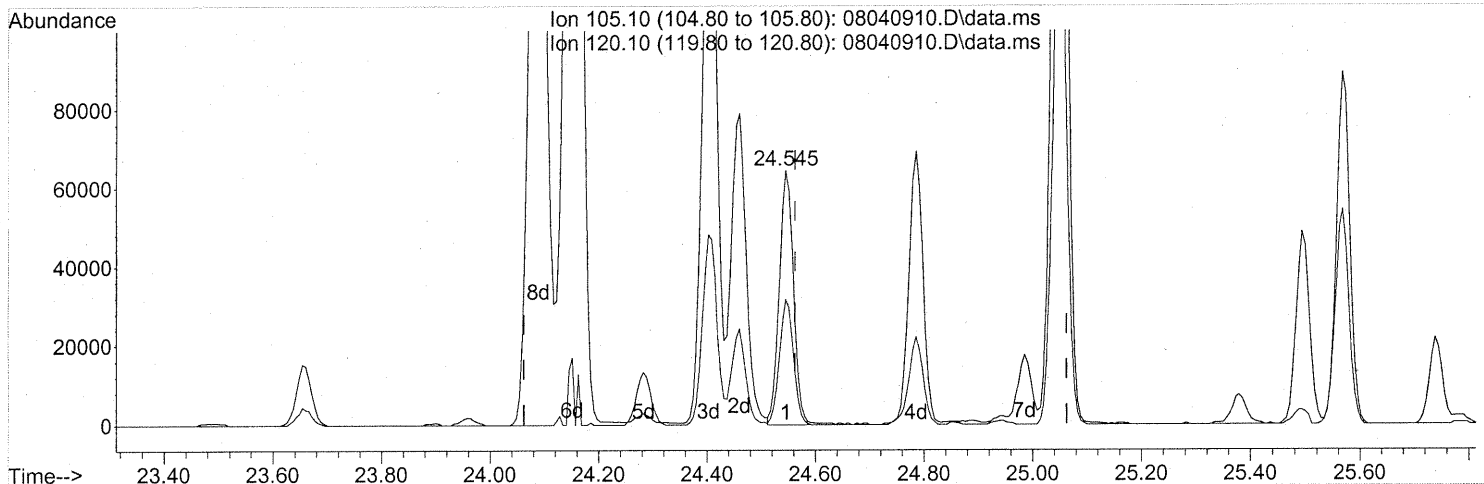
(78) 4-Ethyltoluene (T)
 24.460min (-0.012) 1.32ng
 response 152435

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	27.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

24.545min (-0.017) 1.21ng

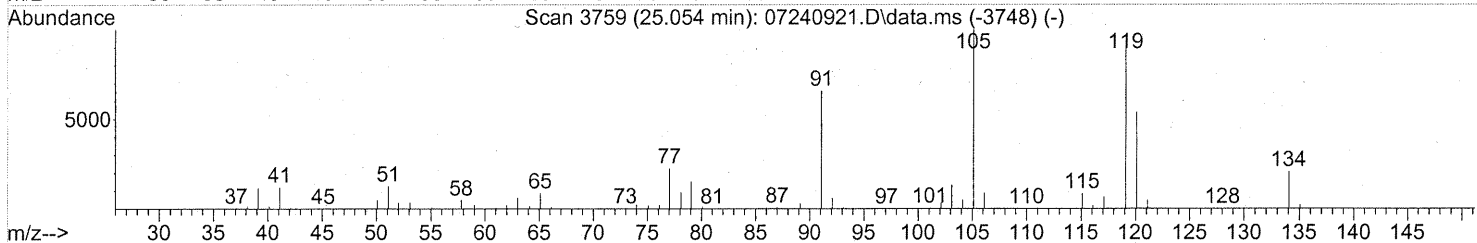
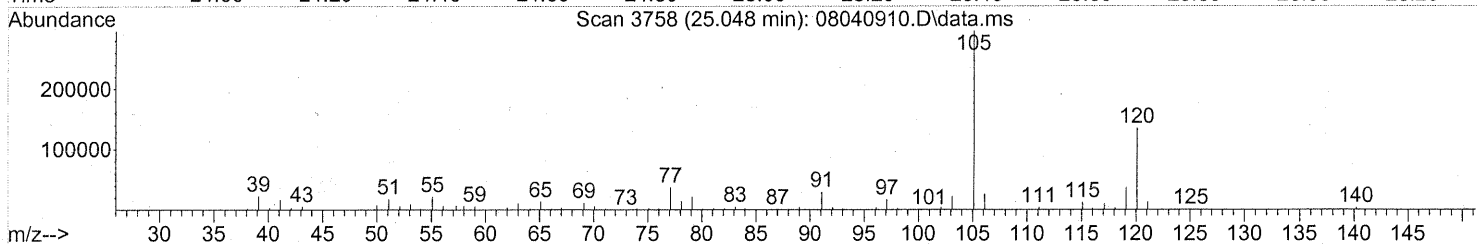
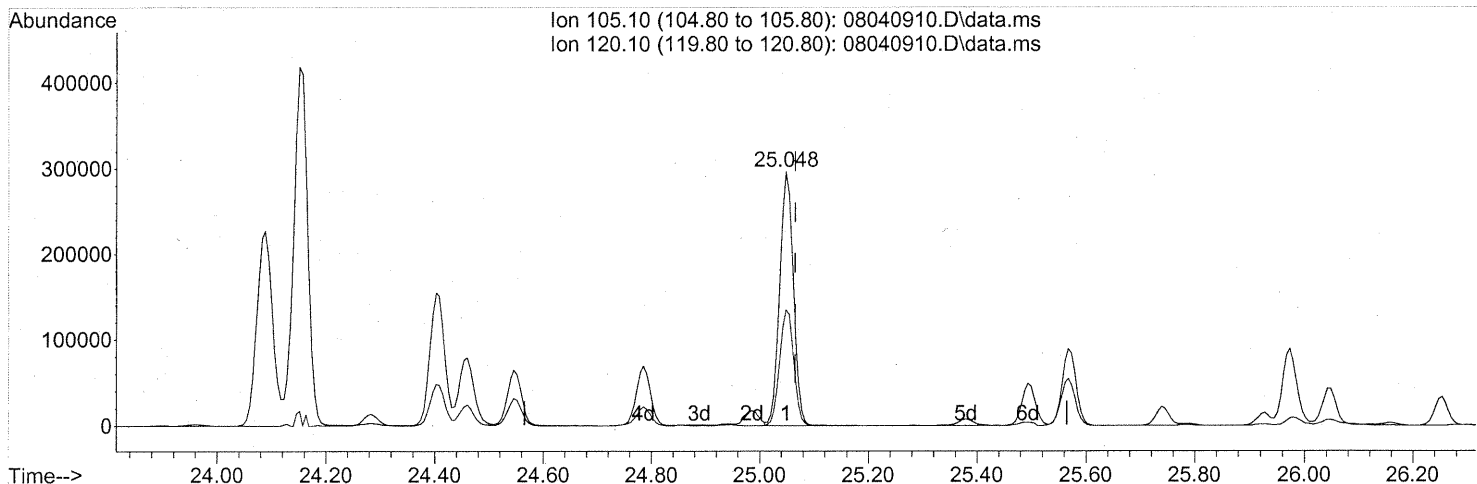
response 116663

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	48.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

25.048min (-0.017) 4.81ng

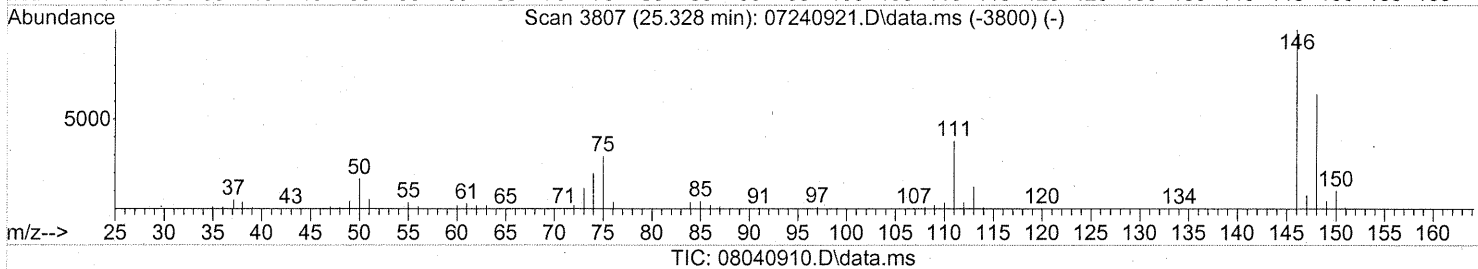
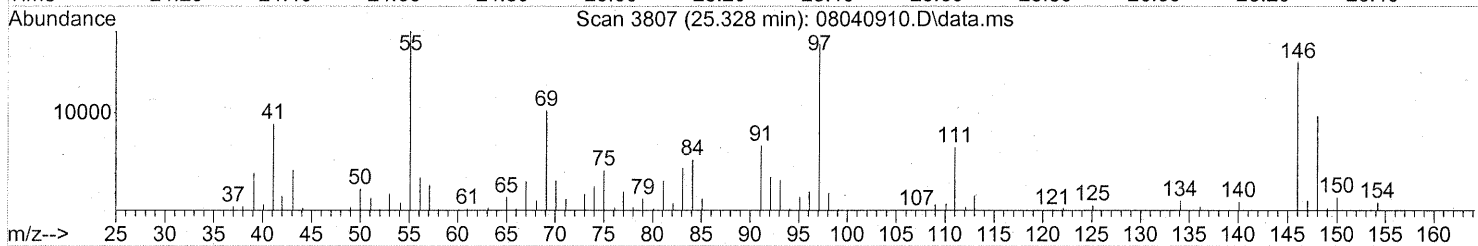
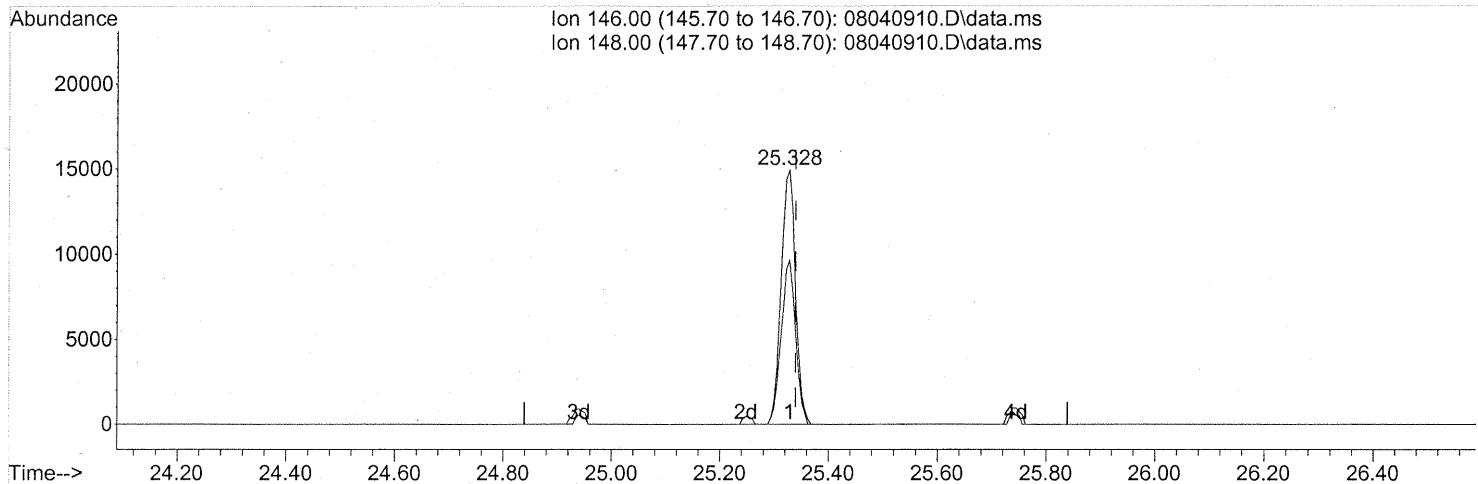
response 517608

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.47ng

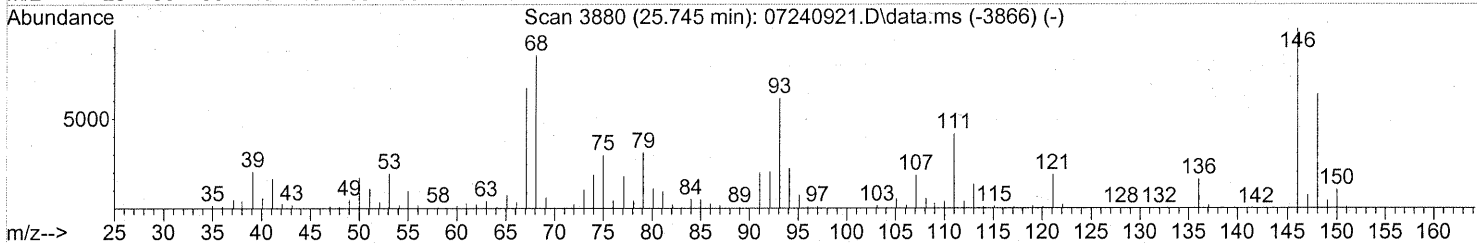
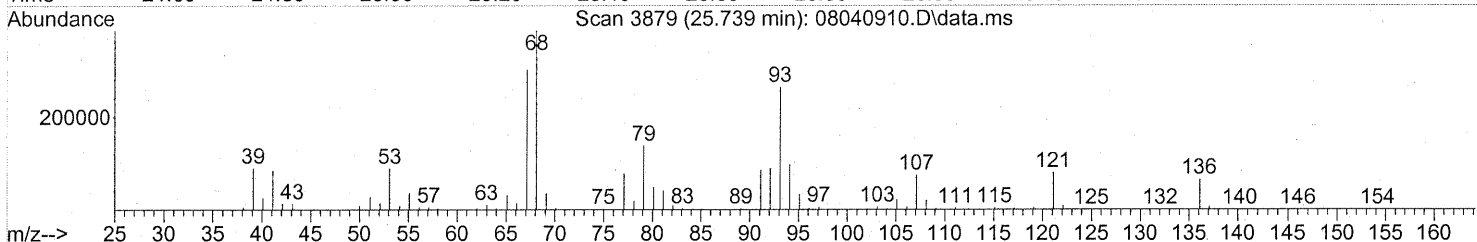
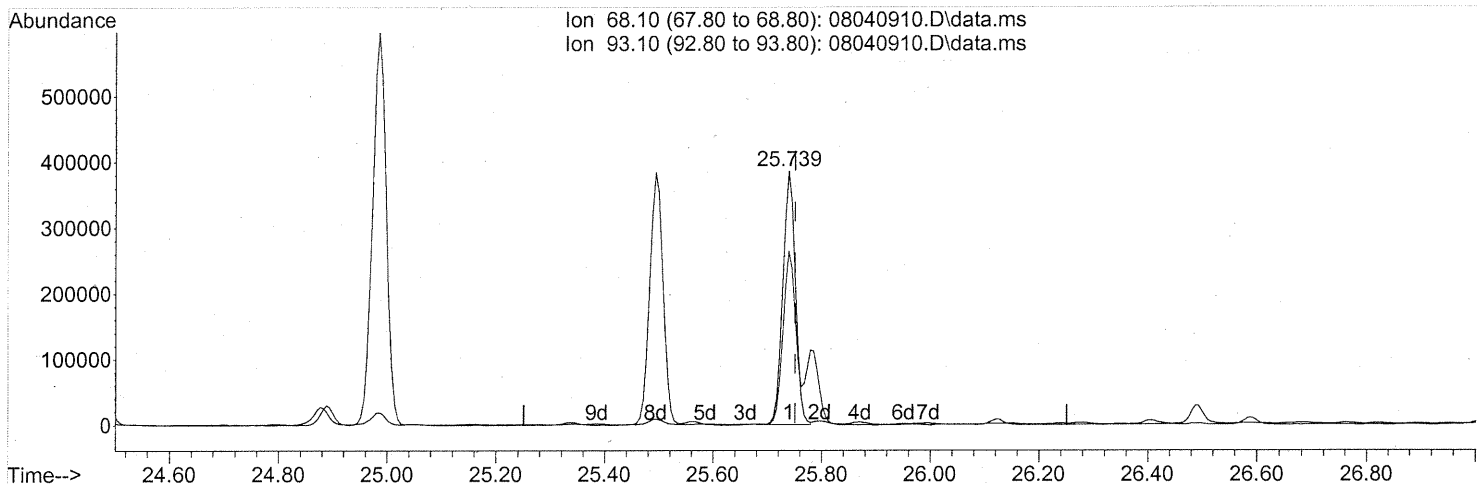
response 27371

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	64.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040910.D\data.ms

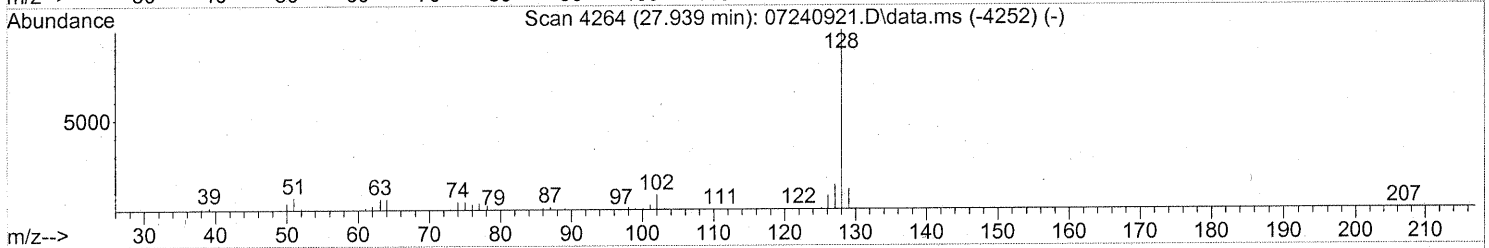
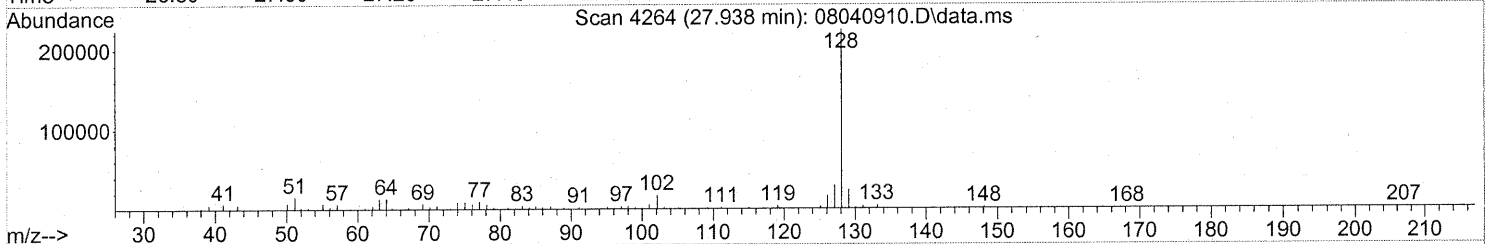
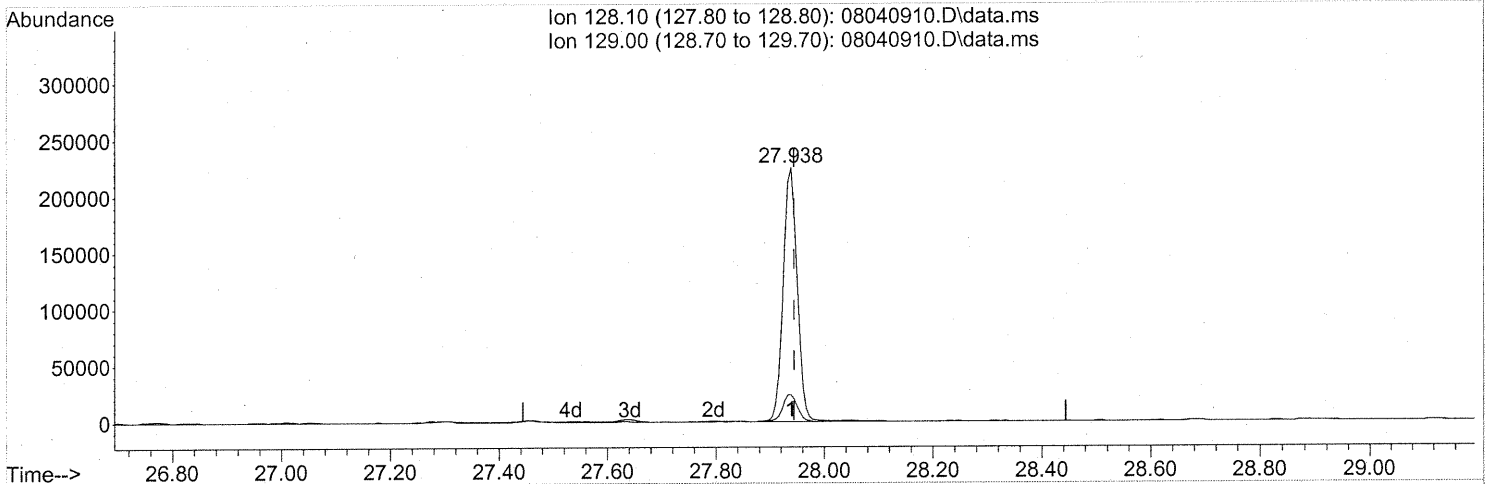
(91) d-Limonene (T)
 25.739min (-0.012) 14.51ng
 response 620247

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	73.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040910.D
 Acq On : 4 Aug 2009 13:10
 Operator : EM
 Sample : P0902624-002 (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:33:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

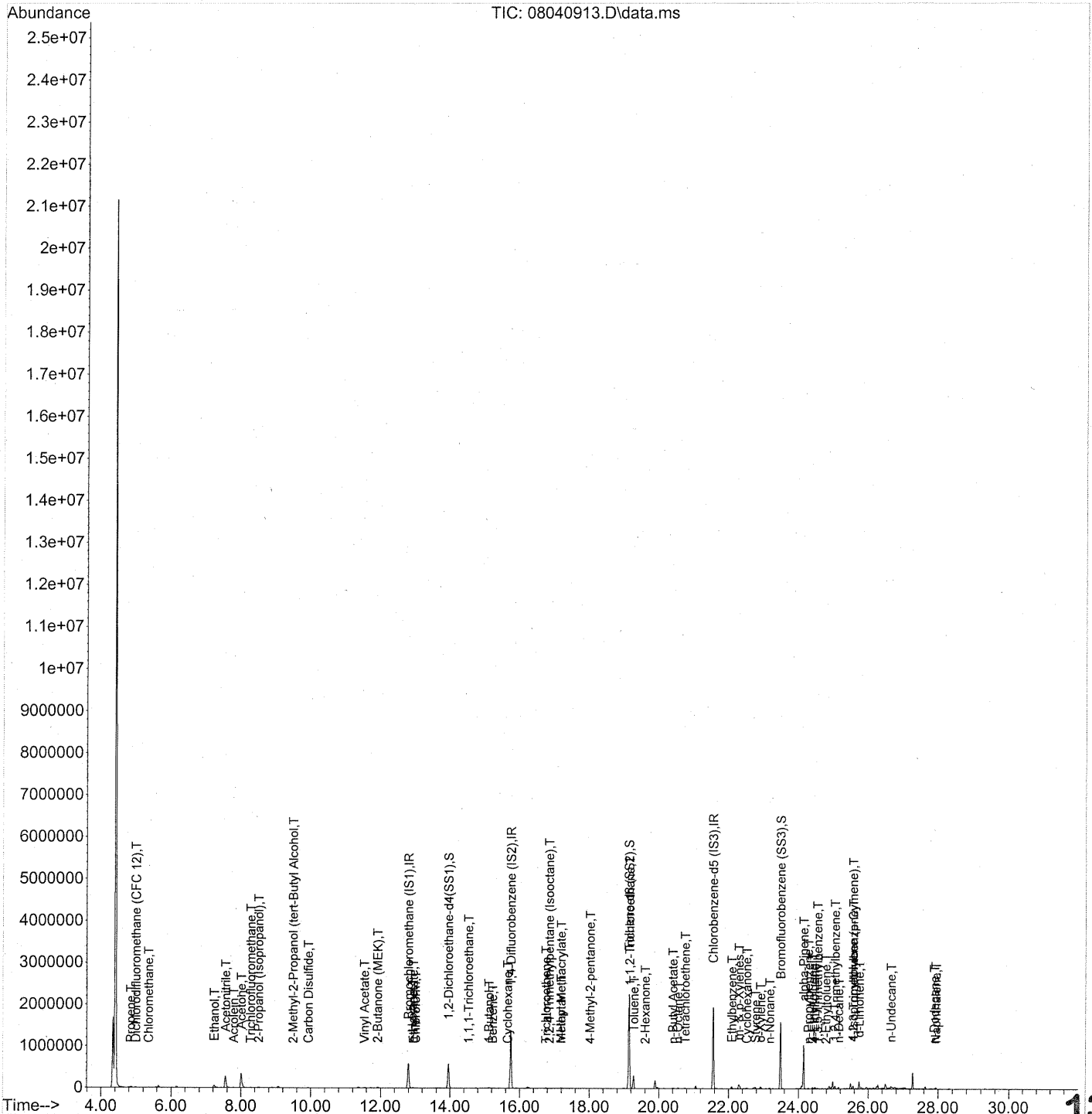
27.938min (-0.006) 3.08ng

response 406875

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	11.12
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040913.D
 Acq On : 4 Aug 2009 16:13
 Operator : EM
 Sample : P0902624-002 dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:07 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040913.D
 Acq On : 4 Aug 2009 16:13
 Operator : EM
 Sample : P0902624-002 dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:07 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	325714	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.74	114	1650130	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	782878	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	576635	25.024	ng	-0.03 ✓
Spiked Amount	25.000		Recovery	=	100.08%	
57) Toluene-d8 (SS2)	19.14	98	1941774	25.071	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	100.28%	
73) Bromofluorobenzene (SS3)	23.49	174	573914	24.647	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	98.60%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	4756	0.231	ng	# 34
3) Dichlorodifluoromethan...	4.99	85	12678	0.309	ng	96
4) Chloromethane	5.35	50	4066	0.132	ng	88
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	6.59	94	653	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.23	45	98195	7.202	ng	99
11) Acetonitrile	7.56	41	431146	13.985	ng	100
12) Acrolein	7.79	56	4687	0.472	ng	91
13) Acetone	8.01	58	191463	12.346	ng	96
14) Trichlorofluoromethane	8.28	101	5437	0.152	ng	90
15) 2-Propanol (Isopropanol)	8.51	45	29984	0.735	ng	81
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.49	59	3472	0.076	ng	# 63
19) Methylene Chloride	9.53	84	810	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	9.93	76	12242	0.175	ng	89
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	11.54	86	2086	0.564	ng	# 59
27) 2-Butanone (MEK)	11.92	72	9716	0.821	ng	# 76
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.94	61	1623	0.209	ng	78
31) n-Hexane	12.92	57	1946	0.054	ng	# 132

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040913.D
 Acq On : 4 Aug 2009 16:13
 Operator : EM
 Sample : P0902624-002 dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:07 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	2331	0.072	ng	89
34) Tetrahydrofuran (THF)	13.63	72	388	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	14.53	97	1819	0.060	ng #	70
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.11	56	21018	1.025	ng	81
41) Benzene	15.22	78	10688	0.121	ng	96
42) Carbon Tetrachloride	15.45	117	702	N.D.		
43) Cyclohexane	15.65	84	2780	0.084	ng #	73
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	16.76	130	5903	0.262	ng	96
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	9413	0.110	ng	93
50) Methyl Methacrylate	17.19	100	1205	0.146	ng #	1
51) n-Heptane	17.19	71	4194	0.197	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.03	58	897	0.054	ng #	31
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	149993	8.113	ng #	8
58) Toluene	19.28	91	292851	3.089	ng	100
59) 2-Hexanone	19.61	43	4330	0.106	ng #	22
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	13805	0.305	ng	96
63) n-Octane	20.55	57	3079	0.166	ng	93
64) Tetrachloroethene	20.75	166	4829	0.193	ng	97
65) Chlorobenzene	21.66	112	644	N.D.		
66) Ethylbenzene	22.09	91	45397	0.440	ng	99
67) m- & p-Xylenes	22.30	91	96996	1.141	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.77	104	18735	0.299	ng	99
70) o-Xylene	22.92	91	33762	0.399	ng	98
71) n-Nonane	23.17	43	9152	0.221	ng	93
72) 1,1,2,2-Tetrachloroethane	22.97	83	109	N.D.		
74) Cumene	23.66	105	2343	N.D.		
75) alpha-Pinene	24.15	93	476707	8.868	ng	98
76) n-Propylbenzene	24.28	91	9241	0.068	ng	89
77) 3-Ethyltoluene	24.40	105	23891	0.224	ng	98
78) 4-Ethyltoluene	24.46	105	11556	0.108	ng	97
79) 1,3,5-Trimethylbenzene	24.55	105	9567	0.108	ng	9

133

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040913.D
 Acq On : 4 Aug 2009 16:13
 Operator : EM
 Sample : P0902624-002 dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:07 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

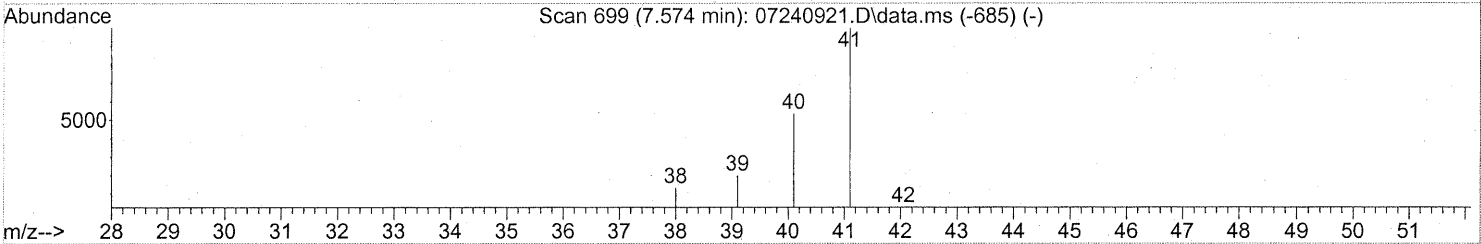
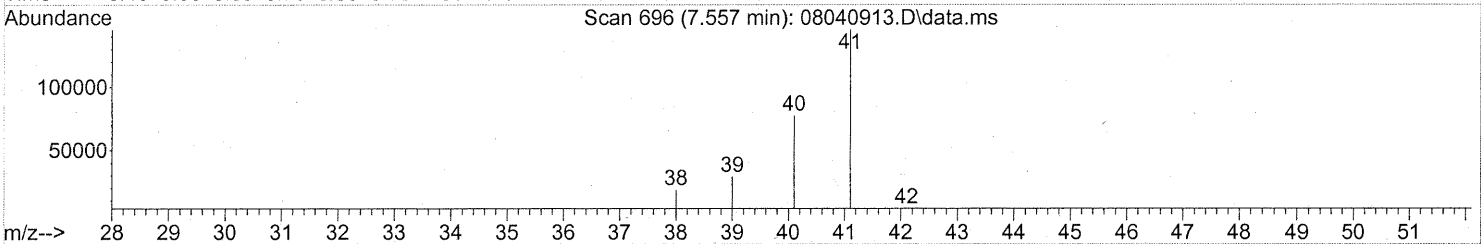
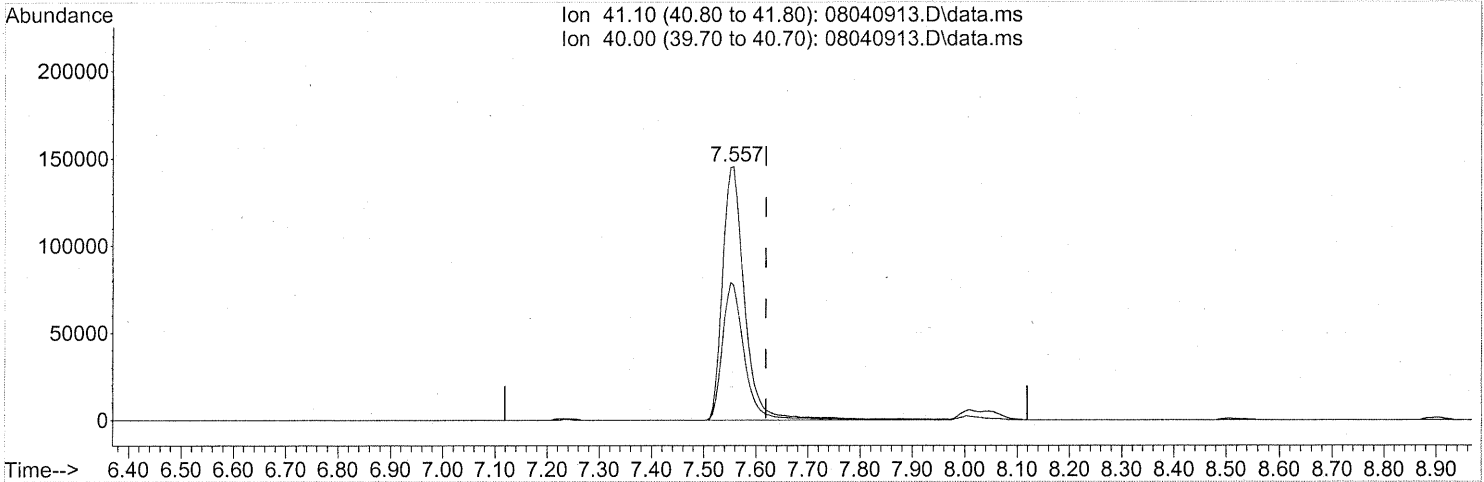
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.95	118	357	N.D.		
81) 2-Ethyltoluene	24.79	105	9998	0.090	ng	95
82) 1,2,4-Trimethylbenzene	25.05	105	38214	0.384	ng	92
83) n-Decane	25.15	57	15618	0.325	ng	93
84) Benzyl Chloride	25.33	91	1054	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	2017	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	2017	N.D.		
87) sec-Butylbenzene	25.37	105	891	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	27043	0.216	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	11665	0.115	ng	86
90) 1,2-Dichlorobenzene	25.33	146	2017	N.D.		
91) d-Limonene	25.74	68	41609	1.053	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	21413	0.435	ng	87
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	29269	0.240	ng	98
96) n-Dodecane	27.89	57	7648	0.145	ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.52	55	11180	0.391	ng	98
99) tert-Butylbenzene	25.05	119	4810	N.D.		
100) n-Butylbenzene	26.05	91	4537	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040913.D
 Acq On : 4 Aug 2009 16:13
 Operator : EM
 Sample : P0902624-002 dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:07 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



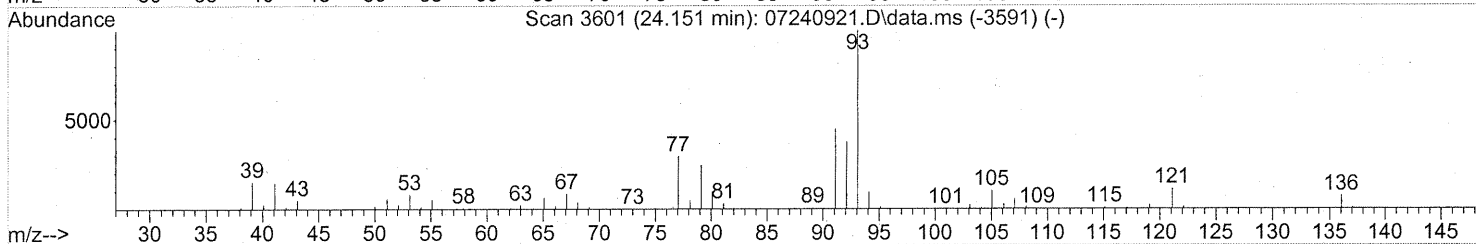
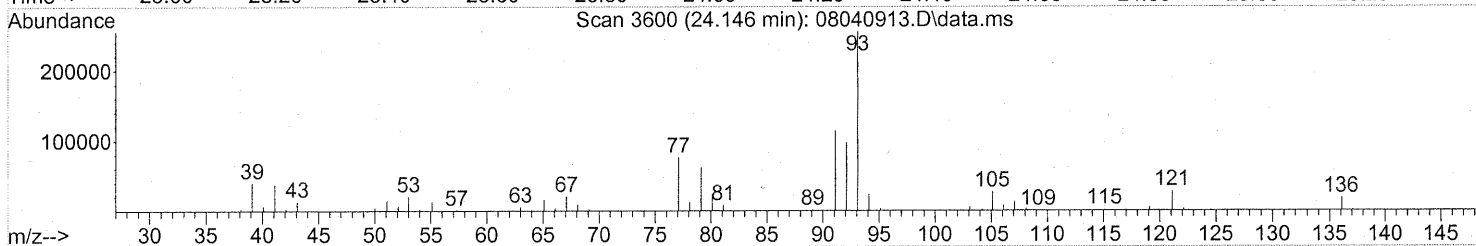
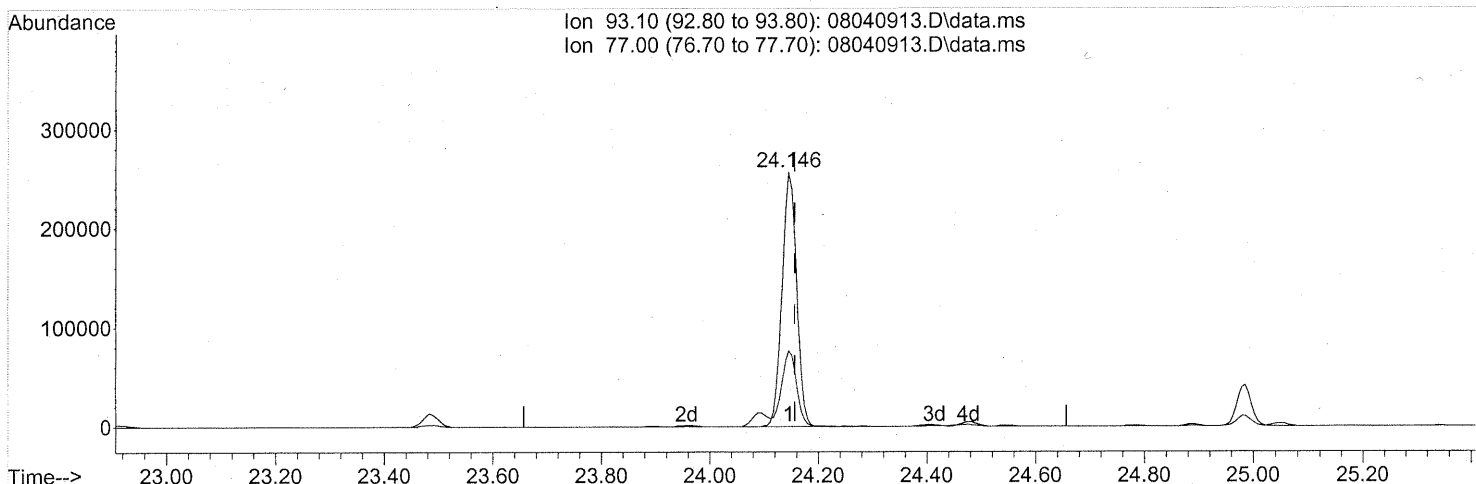
(11) Acetonitrile (T)
 7.557min (-0.063) 13.99ng
 response 431146

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	53.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040913.D
 Acq On : 4 Aug 2009 16:13
 Operator : EM
 Sample : P0902624-002 dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:07 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)
 24.146min (-0.011) 8.87ng
 response 476707

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	30.66
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, Incorporated

Client Sample ID: 99443

Client Project ID: 16512

CAS Project ID: P0902624

CAS Sample ID: P0902624-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00297

Date Collected: 7/30/09

Date Received: 7/31/09

Date Analyzed: 8/4/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.67	ND	0.39	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.67	0.50	0.14	
74-87-3	Chloromethane	0.52	0.13	0.25	0.065	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	ND	0.096	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.052	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.061	
74-83-9	Bromomethane	0.43	0.13	0.11	0.035	
75-00-3	Chloroethane	ND	0.13	ND	0.051	
64-17-5	Ethanol	14	6.7	7.3	3.6	
75-05-8	Acetonitrile	17	0.67	10	0.40	
107-02-8	Acrolein	1.6	0.67	0.72	0.29	
67-64-1	Acetone	14	6.7	6.0	2.8	
75-69-4	Trichlorofluoromethane	1.2	0.13	0.21	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.82	0.67	0.33	0.27	
107-13-1	Acrylonitrile	ND	0.67	ND	0.31	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.034	
75-09-2	Methylene Chloride	ND	0.67	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.043	
76-13-1	Trichlorotrifluoroethane	0.57	0.13	0.074	0.017	
75-15-0	Carbon Disulfide	ND	0.67	ND	0.22	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.034	
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	6.7	ND	1.9	
78-93-3	2-Butanone (MEK)	2.2	0.67	0.75	0.23	

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: 8/14/09

137

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99443
Client Project ID: 16512

CAS Project ID: P0902624
CAS Sample ID: P0902624-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00297

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.34

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	0.034	
141-78-6	Ethyl Acetate	1.2	0.67	0.33	0.19	
110-54-3	n-Hexane	ND	0.67	ND	0.19	
67-66-3	Chloroform	0.49	0.13	0.10	0.027	
109-99-9	Tetrahydrofuran (THF)	0.97	0.67	0.33	0.23	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.025	
71-43-2	Benzene	0.15	0.13	0.047	0.042	
56-23-5	Carbon Tetrachloride	0.49	0.13	0.078	0.021	
110-82-7	Cyclohexane	ND	0.67	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	0.67	ND	0.19	
80-62-6	Methyl Methacrylate	ND	0.67	ND	0.16	
142-82-5	n-Heptane	ND	0.67	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	0.67	ND	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.025	
108-88-3	Toluene	0.76	0.67	0.20	0.18	
591-78-6	2-Hexanone	ND	0.67	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	ND	0.67	ND	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: _____

8/14/09

138

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99443
Client Project ID: 16512

CAS Project ID: P0902624
CAS Sample ID: P0902624-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00297

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.93	0.67	0.20	0.14	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.020	
108-90-7	Chlorobenzene	ND	0.13	ND	0.029	
100-41-4	Ethylbenzene	ND	0.67	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.67	ND	0.15	
75-25-2	Bromoform	ND	0.67	ND	0.065	
100-42-5	Styrene	ND	0.67	ND	0.16	
95-47-6	o-Xylene	ND	0.67	ND	0.15	
111-84-2	n-Nonane	ND	0.67	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.020	
98-82-8	Cumene	ND	0.67	ND	0.14	
80-56-8	alpha-Pinene	ND	0.67	ND	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.67	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.67	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.67	ND	0.14	
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	0.67	ND	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.67	ND	0.069	
120-82-1	1,2,4-Trichlorobenzene	ND	0.13	ND	0.018	
91-20-3	Naphthalene	ND	0.27	ND	0.051	
87-68-3	Hexachlorobutadiene	ND	0.13	ND	0.013	

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

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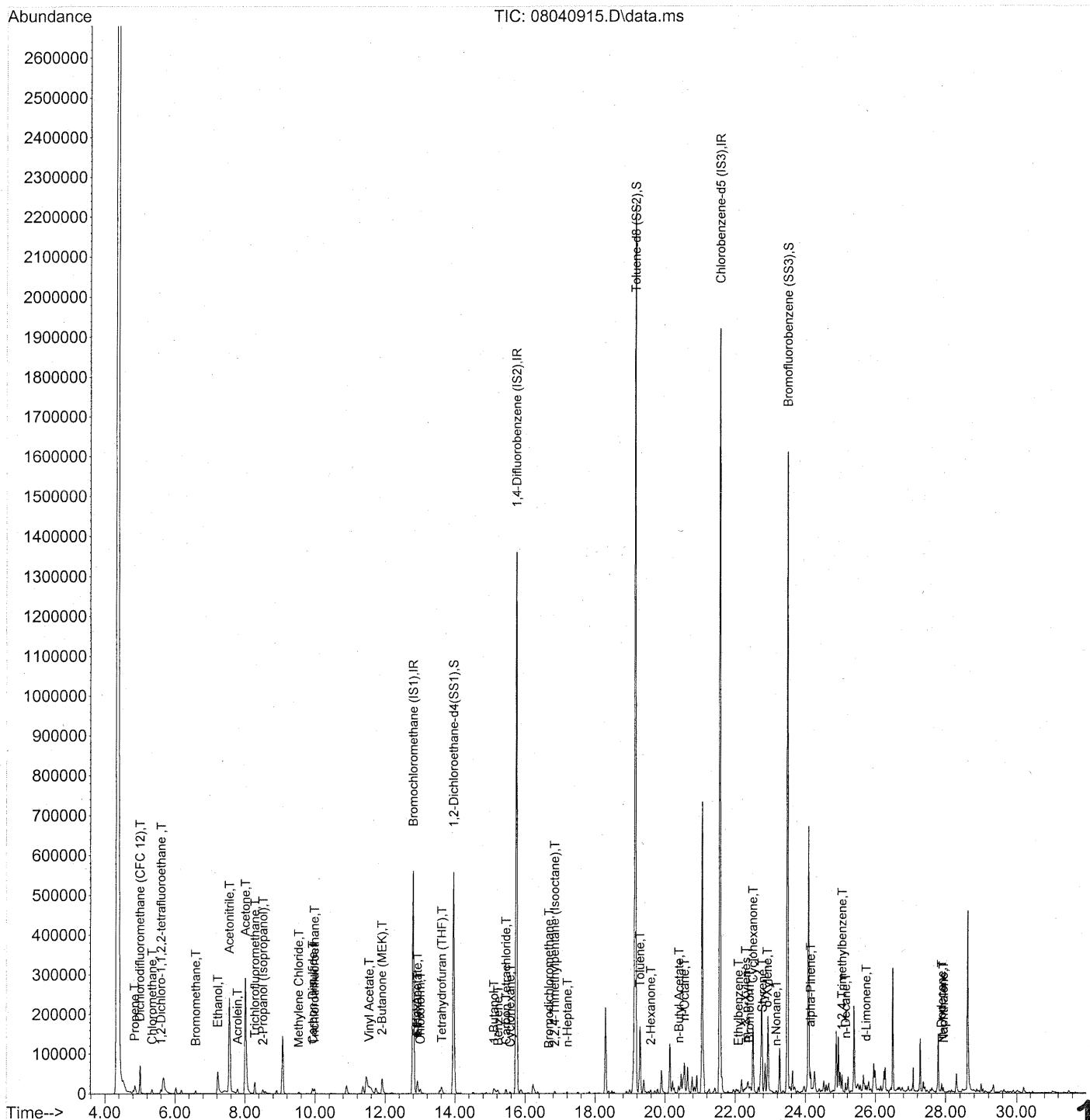
Verified By: _____

Date: 8/14/09

139

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443 ✓
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	308964	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1604062	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	786502	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	558158	25.535	ng	-0.03
Spiked Amount	25.000			Recovery =	102.12%	✓
57) Toluene-d8 (SS2)	19.15	98	1918636	24.658	ng	-0.01
Spiked Amount	25.000			Recovery =	98.64%	✓
73) Bromofluorobenzene (SS3)	23.49	174	573543	24.518	ng	0.00
Spiked Amount	25.000			Recovery =	98.08%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	5970	0.306	ng	# 77
3) Dichlorodifluoromethan...	5.00	85	71787	1.845	ng	99
4) Chloromethane	5.35	50	11326	0.389	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1348	0.062	ng	72
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.59	94	5903	0.322	ng	97
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.23	45	133012m	10.285	ng	
11) Acetonitrile	7.55	41	372139	12.725	ng	100
12) Acrolein	7.79	56	11580	1.228	ng	94
13) Acetone	8.01	58	157272m	10.691	ng	
14) Trichlorofluoromethane	8.29	101	30132	0.889	ng	99
15) 2-Propanol (Isopropanol)	8.51	45	23732m	0.613	ng	
16) Acrylonitrile	8.83	53	325	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.49	59	1194	N.D.		
19) Methylene Chloride	9.53	84	1696	0.087	ng	81
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	9.98	151	6503	0.423	ng	91
22) Carbon Disulfide	9.93	76	27724	0.418	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	11.54	86	11148	3.177	ng	# 23
27) 2-Butanone (MEK)	11.90	72	18509	1.650	ng	# 77
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	13.01	87	657	N.D.		
30) Ethyl Acetate	12.92	61	6521	0.887	ng	94
31) n-Hexane	12.92	57	2320	0.068	ng	# 94

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.01	83	11288	0.366 ng		99
34) Tetrahydrofuran (THF)	13.62	72	7658	0.724 ng	#	90
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	14.53	97	714	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.11	56	18584	0.932 ng		83
41) Benzene	15.23	78	9677	0.113 ng		90
42) Carbon Tetrachloride	15.46	117	9159	0.365 ng		99
43) Cyclohexane	15.57	84	1793	0.056 ng	#	7
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.68	83	1630	0.066 ng		78
47) Trichloroethene	16.77	130	323	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	6341	0.076 ng		89
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	17.21	71	1306	0.063 ng	#	76
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.00	58	656	N.D.		
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	19.28	91	54073	0.568 ng		100
59) 2-Hexanone	19.59	43	8167	0.199 ng		83
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	4157	0.091 ng	#	17
63) n-Octane	20.56	57	12887	0.692 ng		89
64) Tetrachloroethene	20.75	166	549	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	6727	0.065 ng		92
67) m- & p-Xylenes	22.31	91	13753	0.161 ng		98
68) Bromoform	22.41	173	1123	0.059 ng	#	45
69) Styrene	22.77	104	6945	0.110 ng		99
70) o-Xylene	22.92	91	5696	0.067 ng		79
71) n-Nonane	23.17	43	3314	0.080 ng	#	69
72) 1,1,2,2-Tetrachloroethane	22.93	83	765	N.D.		
74) Cumene	23.49	105	633	N.D.		
75) alpha-Pinene	24.15	93	21160	0.392 ng	#	45
76) n-Propylbenzene	24.29	91	2795	N.D.		
77) 3-Ethyltoluene	24.40	105	4980	N.D.		
78) 4-Ethyltoluene	24.45	105	2450	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	1742	N.D.		

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

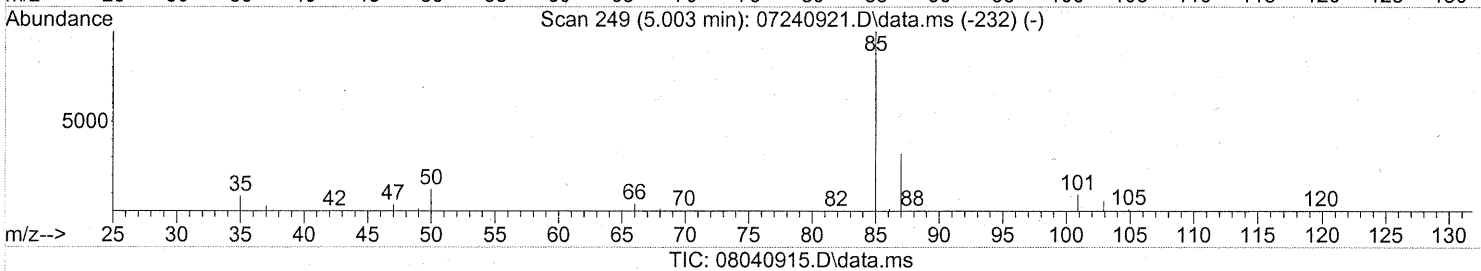
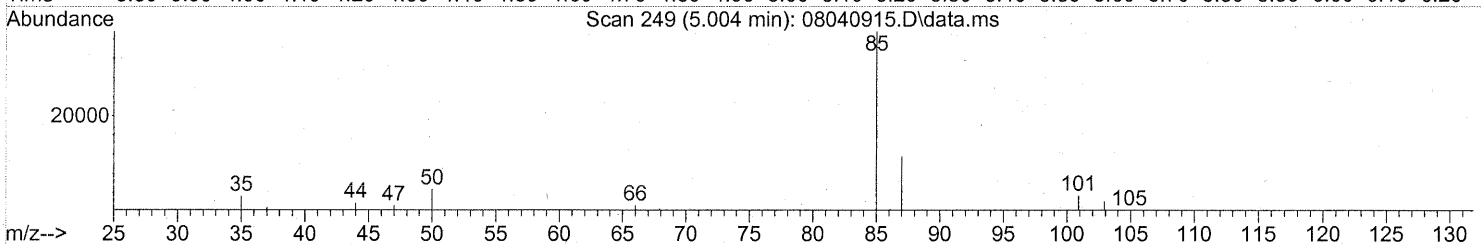
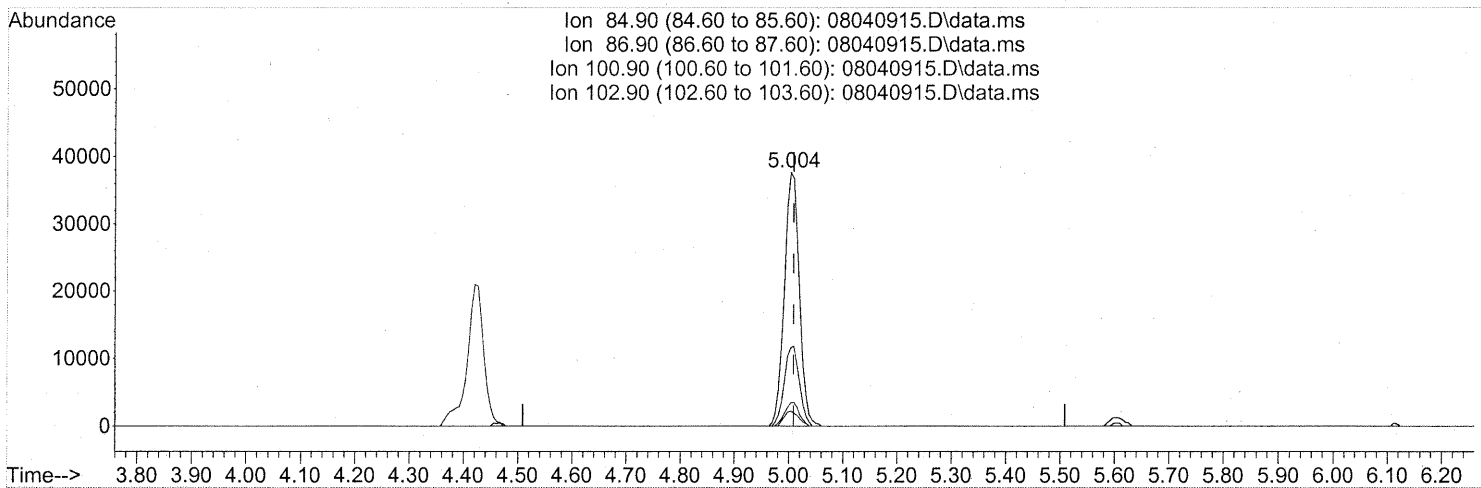
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.94	118	1915	N.D.		
81) 2-Ethyltoluene	24.79	105	2053	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	5940	0.059	ng	89
83) n-Decane	25.15	57	8165	0.169	ng	92
84) Benzyl Chloride	25.21	91	521	N.D.		
85) 1,3-Dichlorobenzene	25.32	146	610	N.D.		
86) 1,4-Dichlorobenzene	25.32	146	610	N.D.		
87) sec-Butylbenzene	25.39	105	1873	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	4297	N.D.		
89) 1,2,3-Trimethylbenzene	25.57	105	1870	N.D.		
90) 1,2-Dichlorobenzene	25.32	146	610	N.D.		
91) d-Limonene	25.73	68	3495	0.088	ng	79
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	2308	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	11891	0.097	ng	93
96) n-Dodecane	27.89	57	8360	0.158	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	90664	3.156	ng	98
99) tert-Butylbenzene	25.05	119	596	N.D.		
100) n-Butylbenzene	26.08	91	3385	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

5.004min (-0.006) 1.85ng

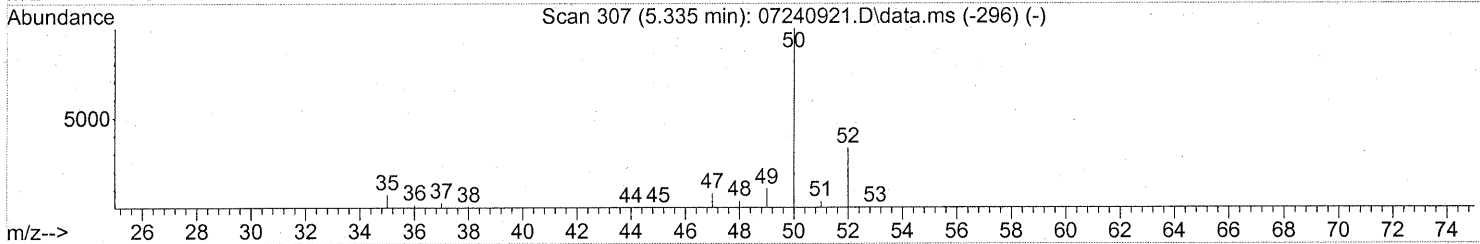
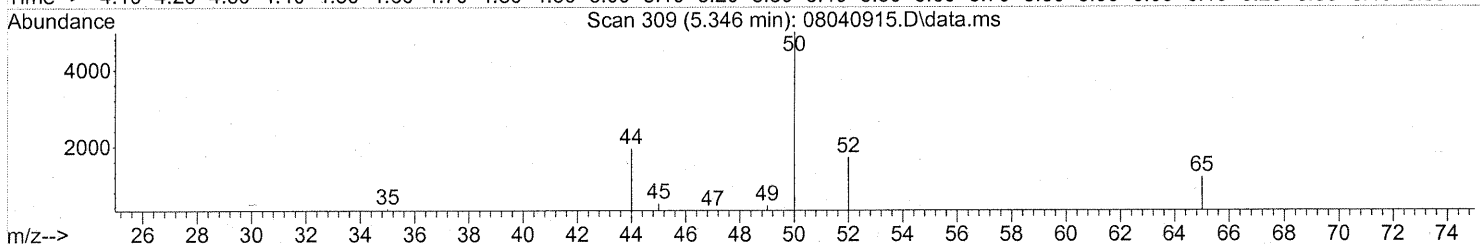
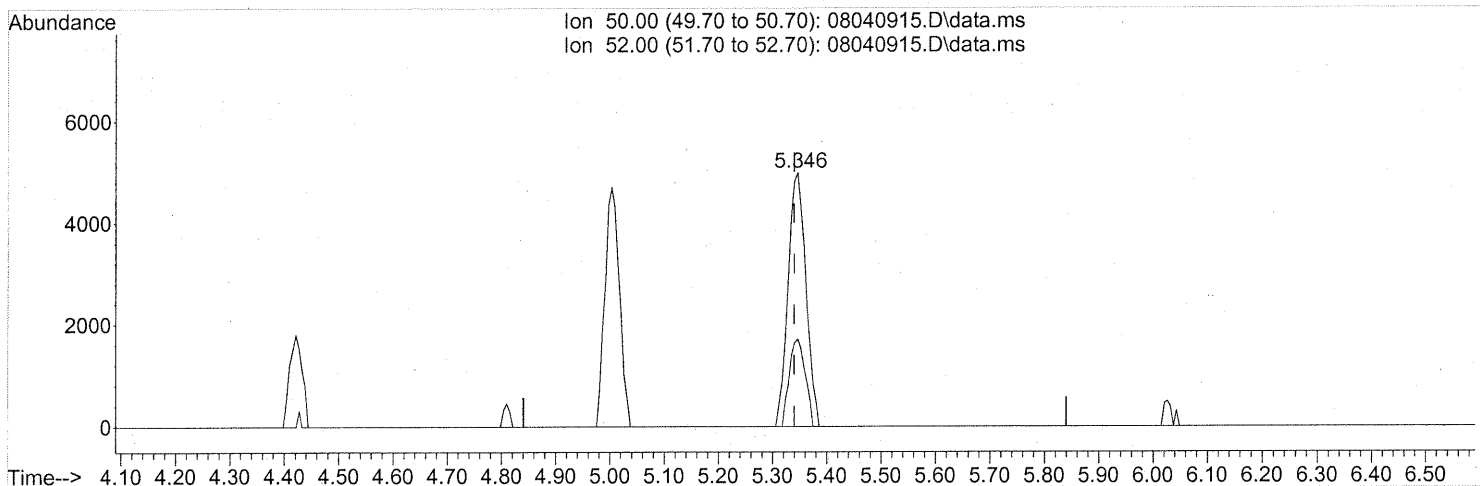
response 71787

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.33
100.90	9.10	8.82
102.90	5.50	5.50

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



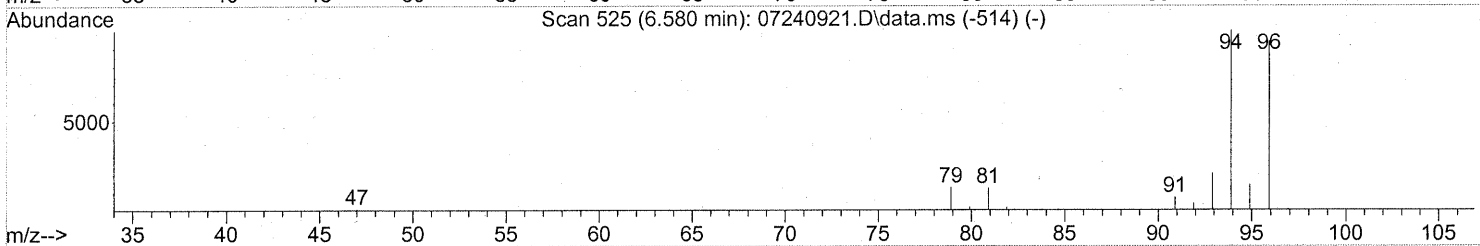
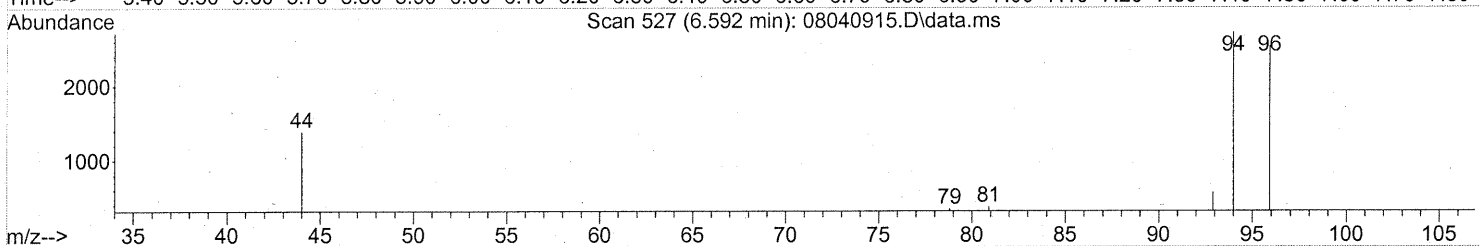
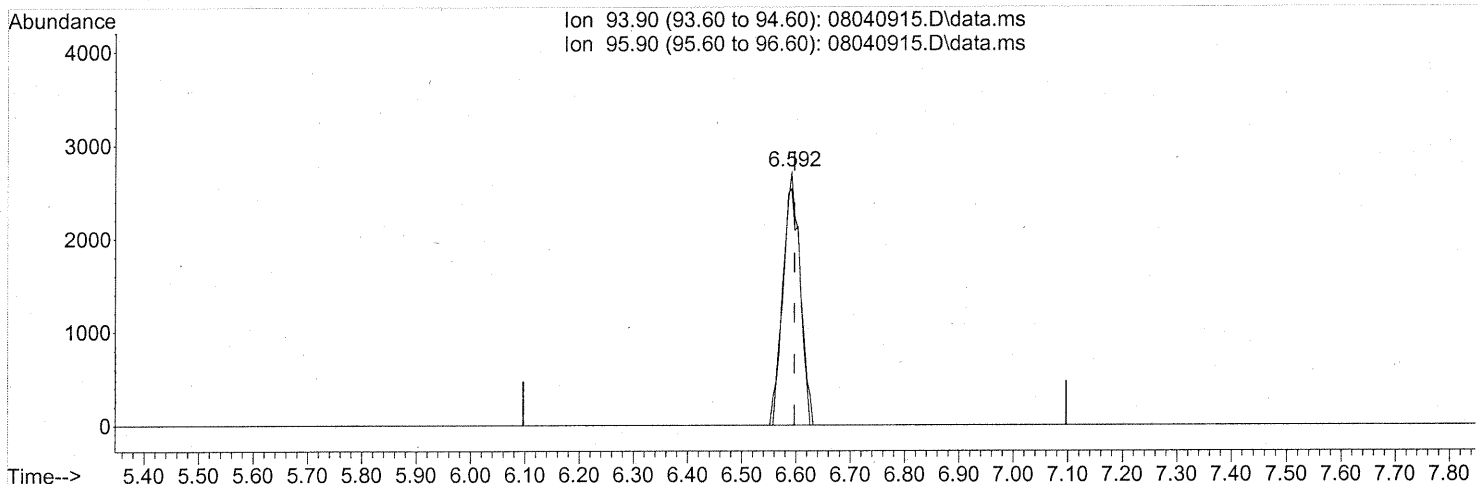
(4) Chloromethane (T)
 5.346min (+0.006) 0.39ng
 response 11326

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

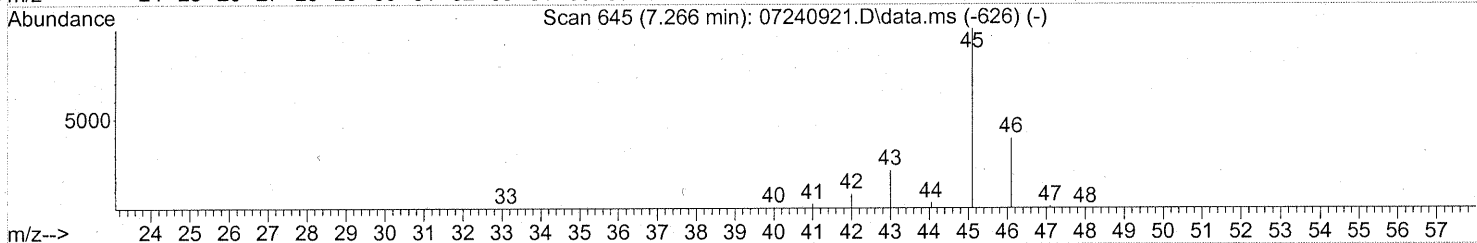
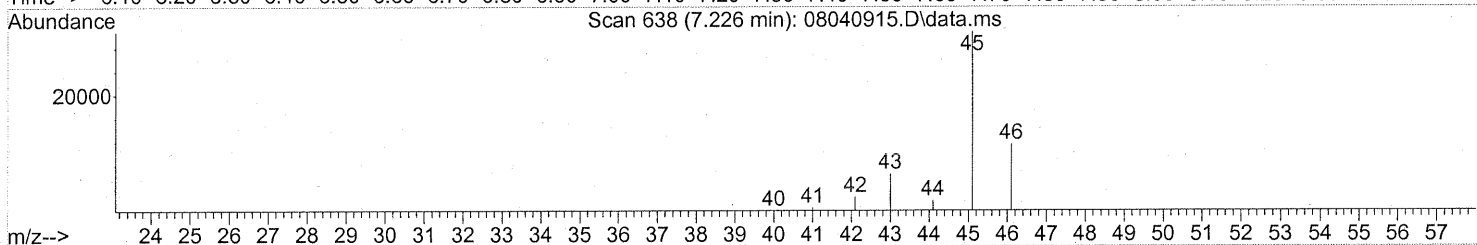
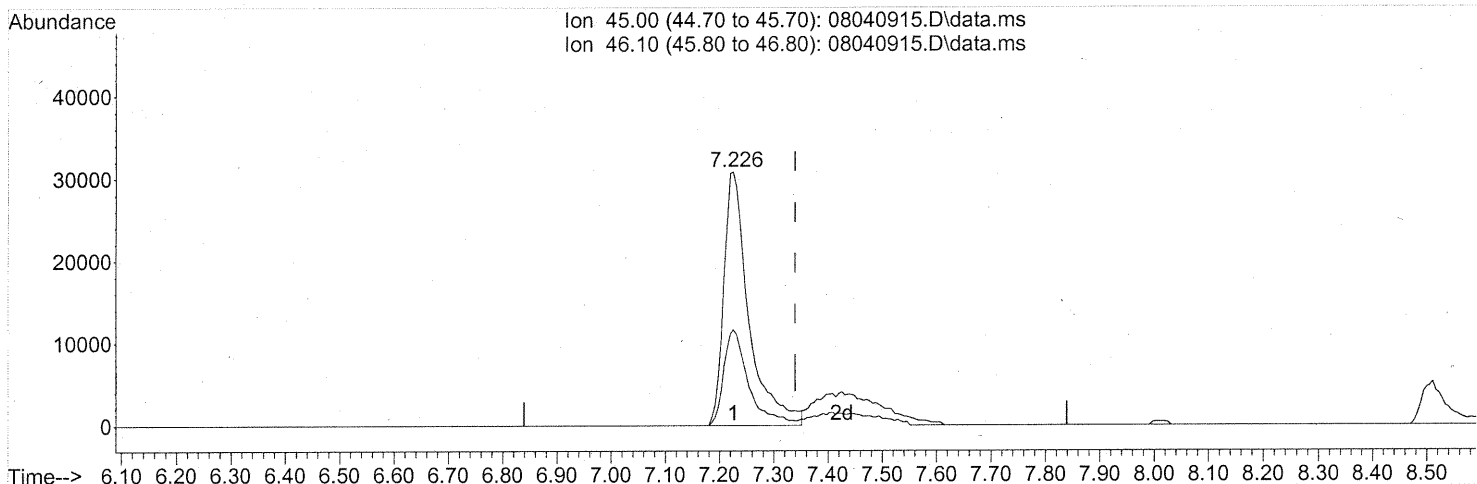
(8) Bromomethane (T)
 6.592min (-0.006) 0.32ng
 response 5903

Ion	Exp%	Act%
93.90	100	100
95.90	94.20	96.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 07:55:14 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.226min (-0.114) 7.67ng

response 99151

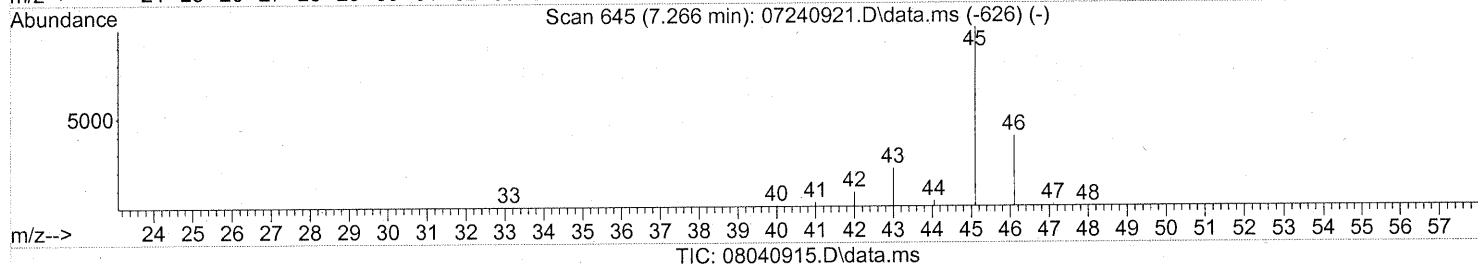
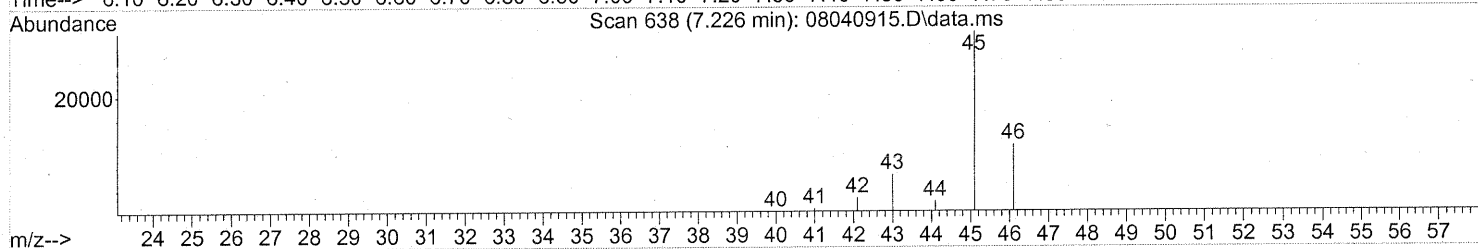
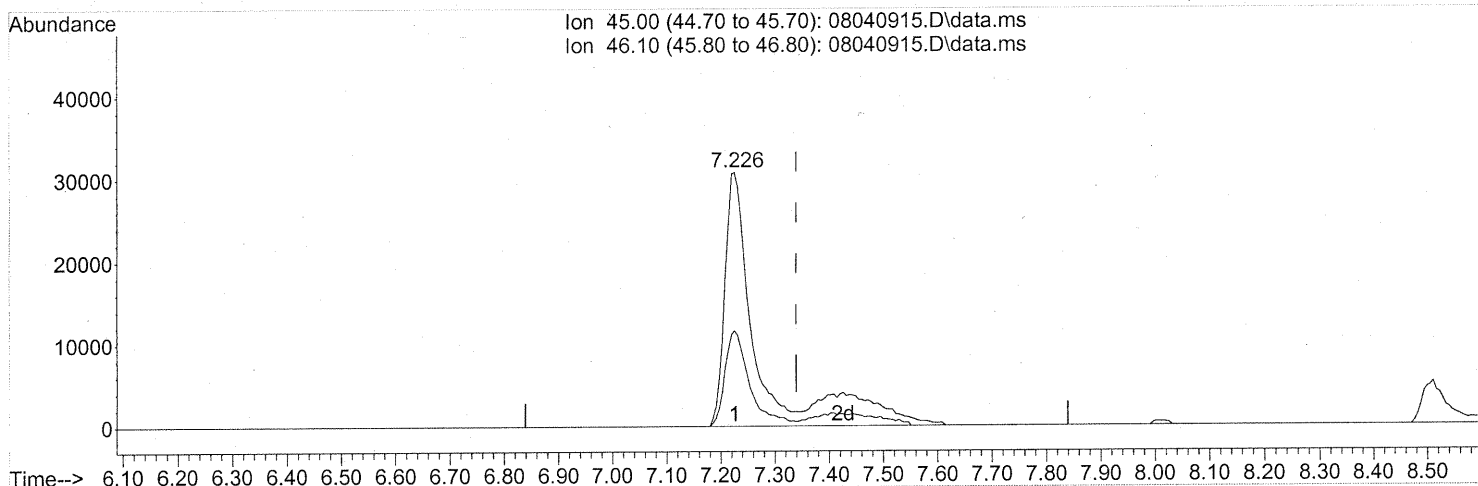
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.32
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040915.D
Acq On : 4 Aug 2009 17:36
Operator : EM
Sample : P0902624-003 (1000ml)
Misc : Environmental H & E 99443
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 07:55:14 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.226min (-0.114) 10.28ng m

response 133012

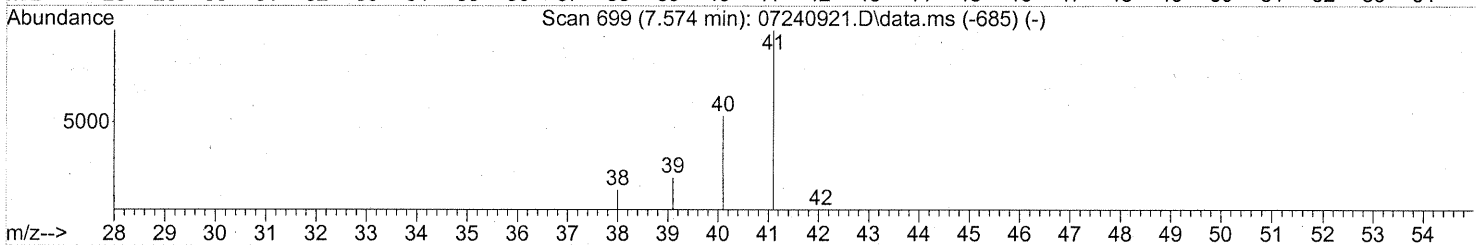
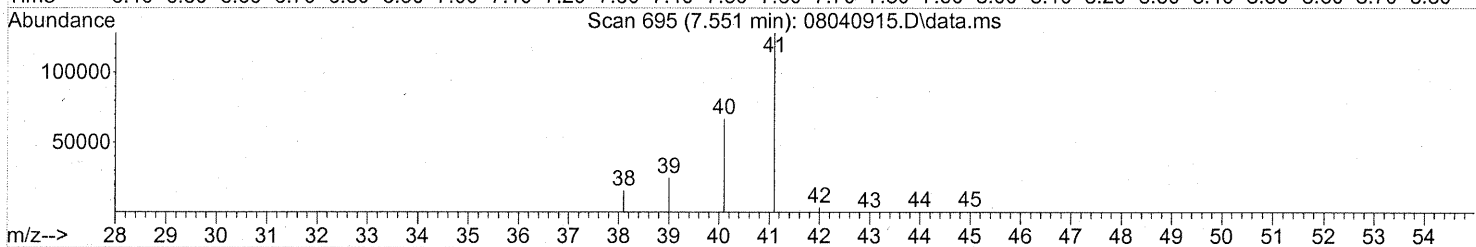
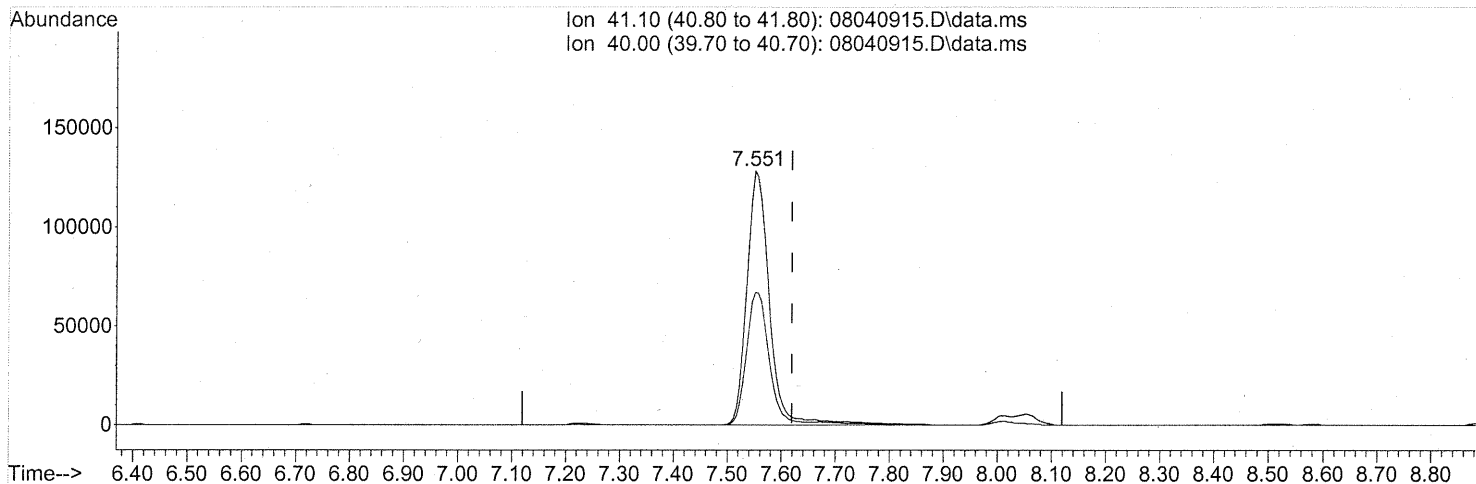
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	27.82
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
EM 8/6/09
11/8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

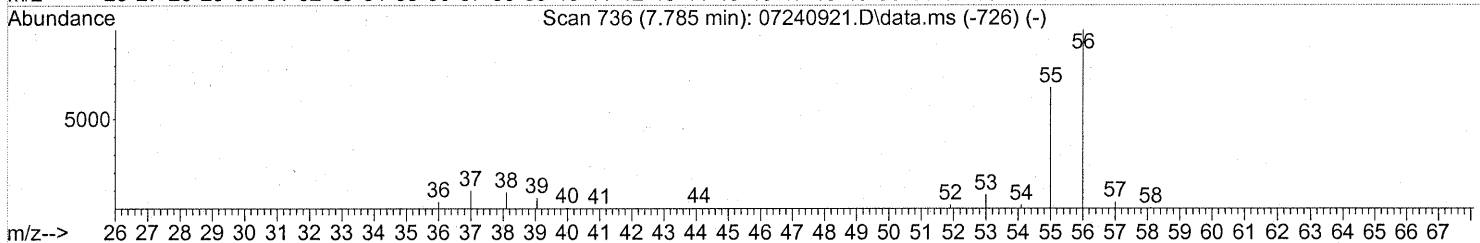
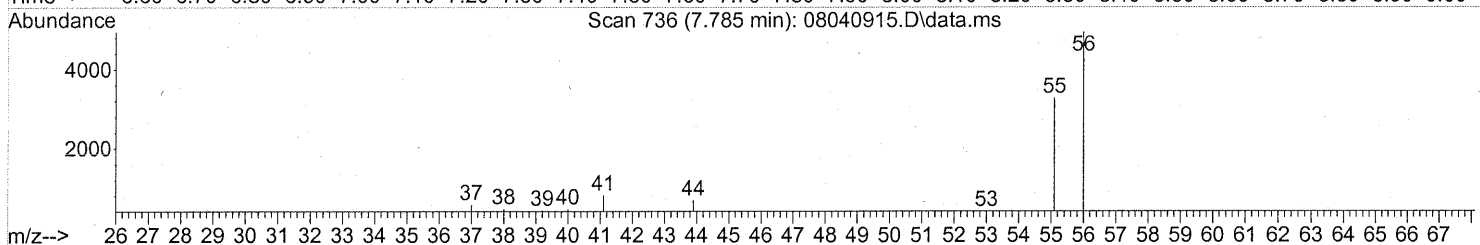
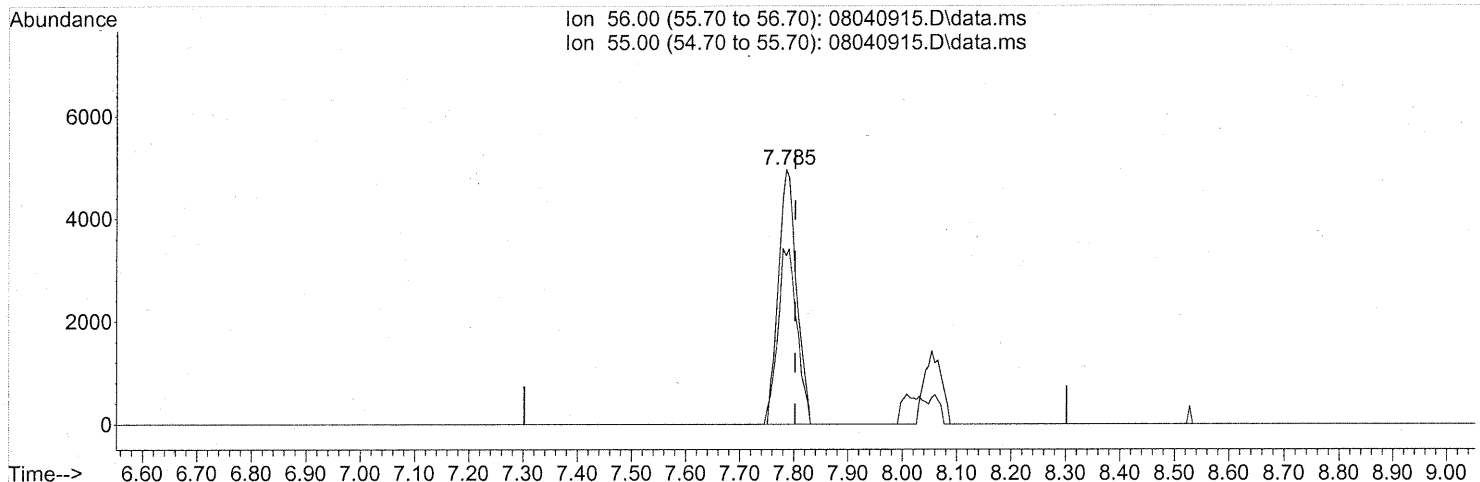
(11) Acetonitrile (T)
 7.551min (-0.068) 12.73ng
 response 372139

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	53.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

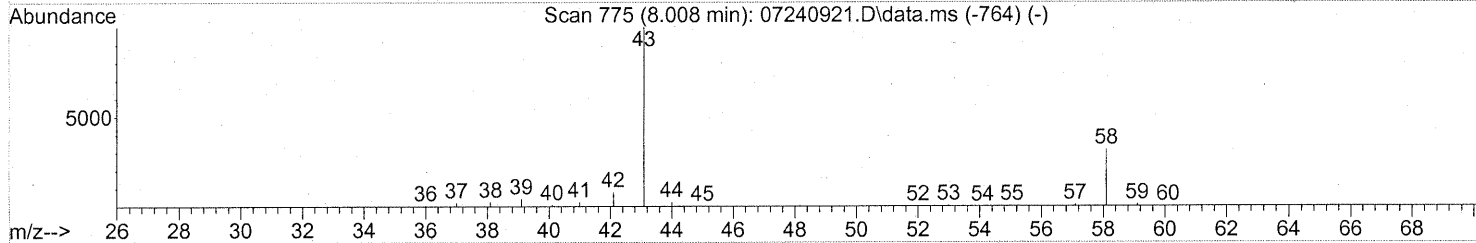
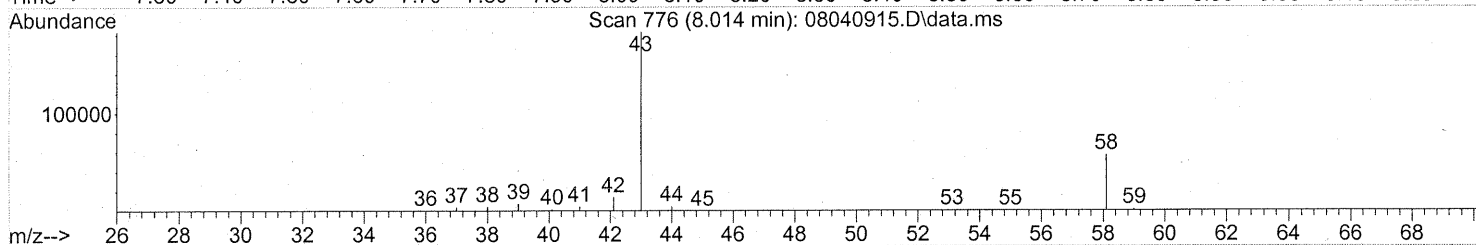
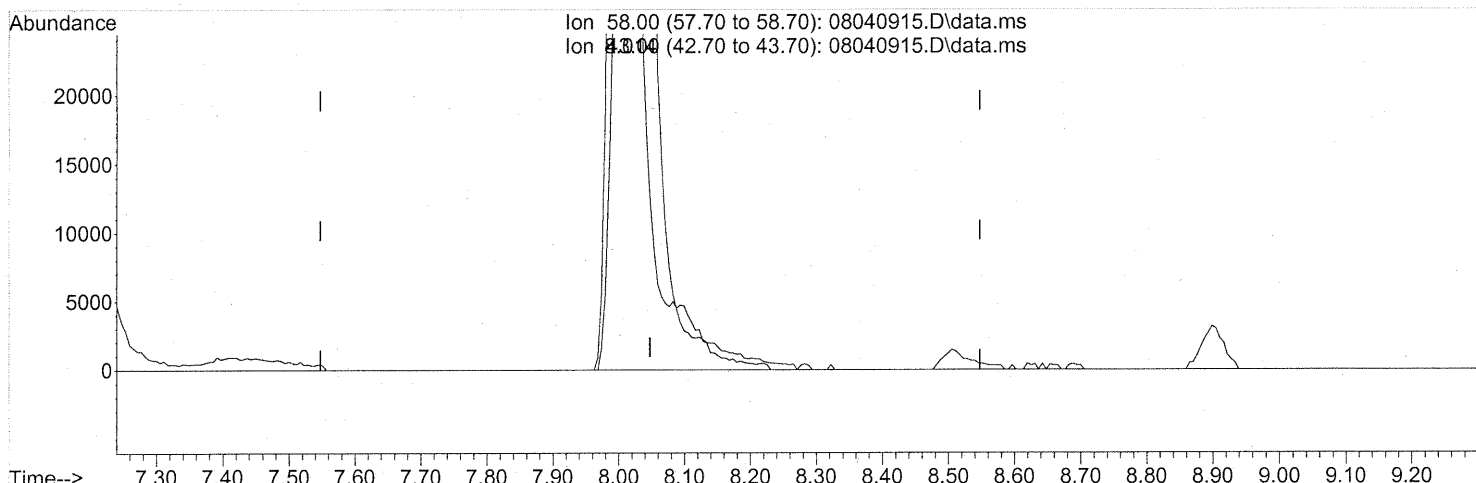
(12) Acrolein (T)
 7.785min (-0.017) 1.23ng
 response 11580

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	72.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 07:55:14 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(13) Acetone (T)
 8.014min (-0.034) 11.79ng
 response 173369

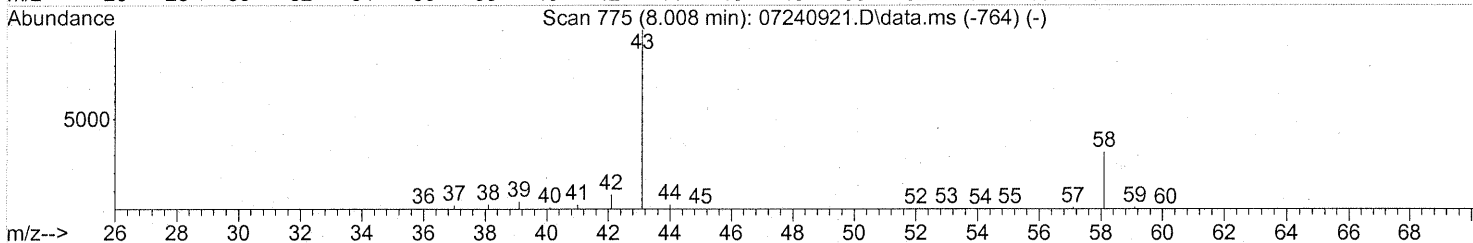
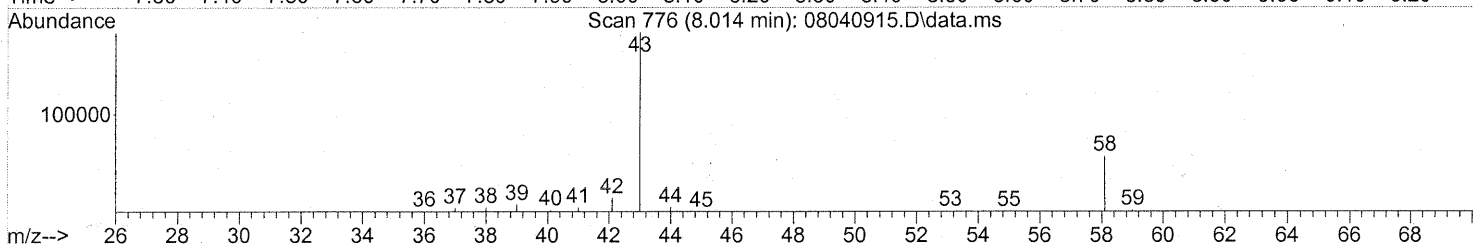
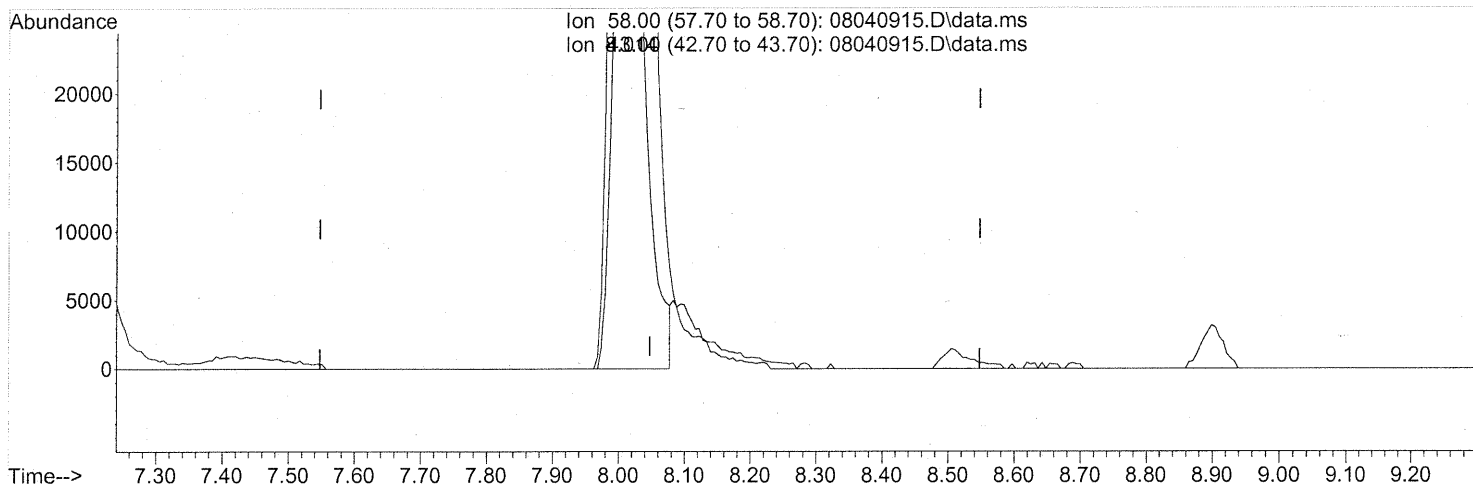
SH

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	306.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 07:55:14 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(13) Acetone (T)

8.014min (-0.034) 10.69ng m

response 157272

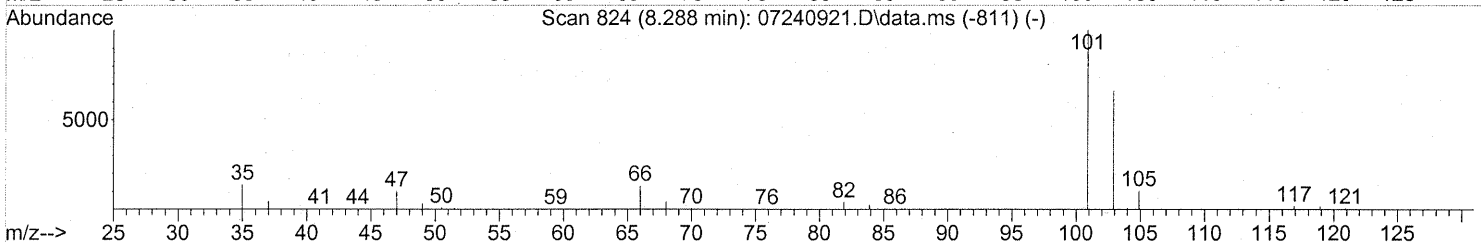
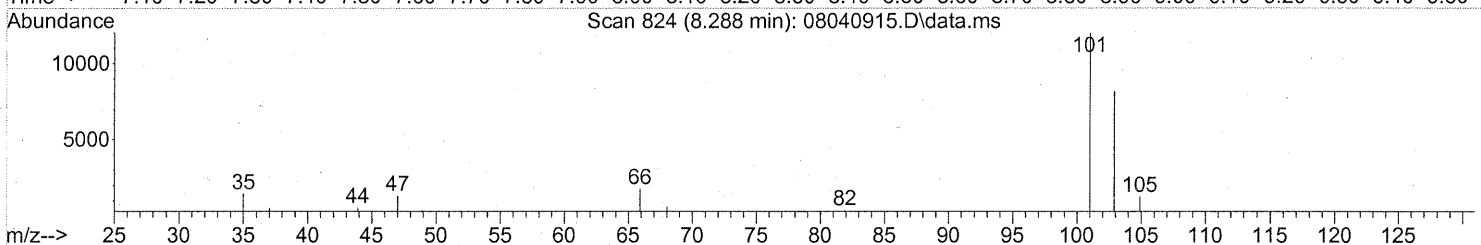
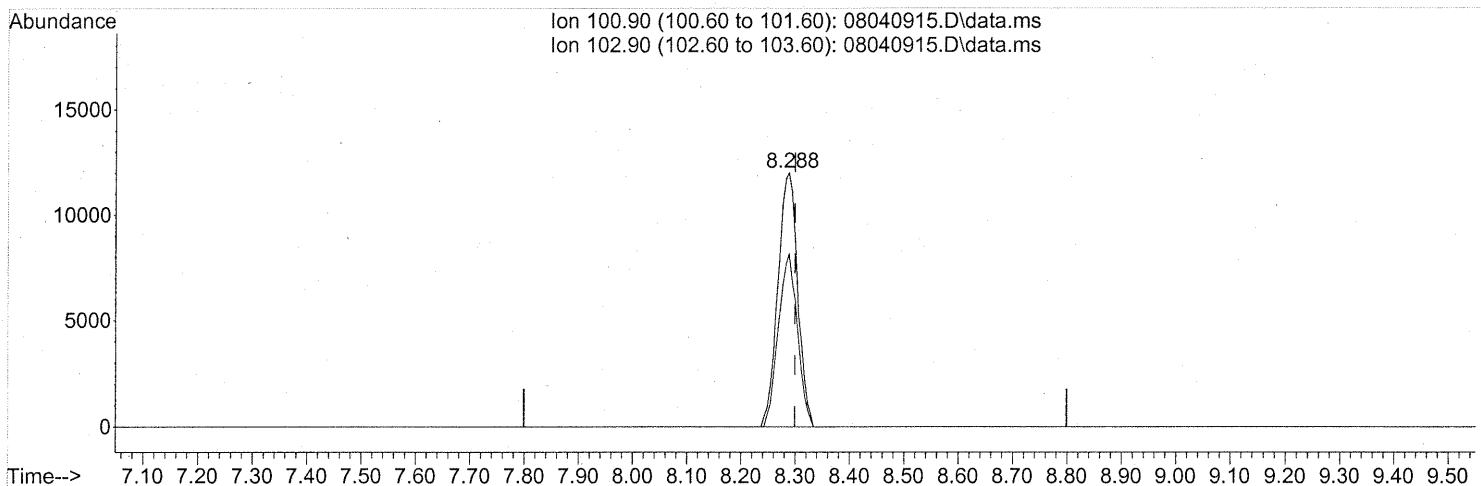
Ion	Exp%	Act%
58.00	100	100
43.00	317.70	338.04
0.00	0.00	0.00
0.00	0.00	0.00

SH → IC
em 8/6/09
um 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.011) 0.89ng

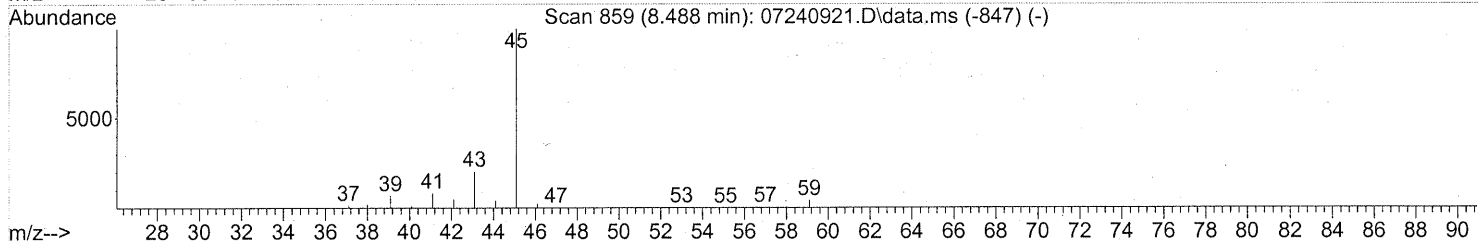
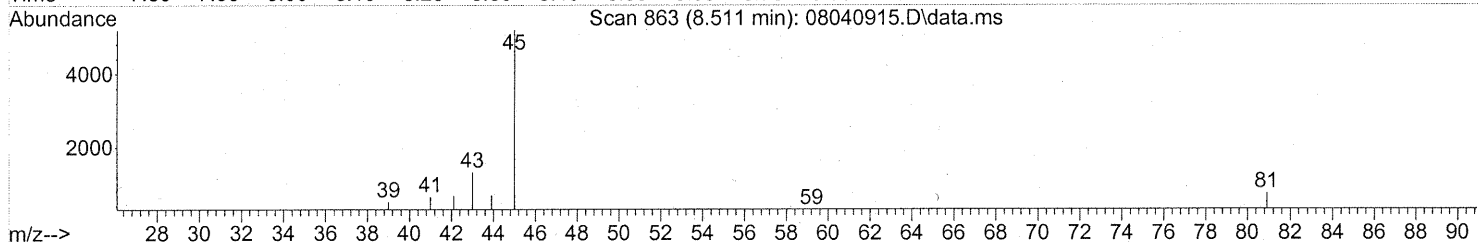
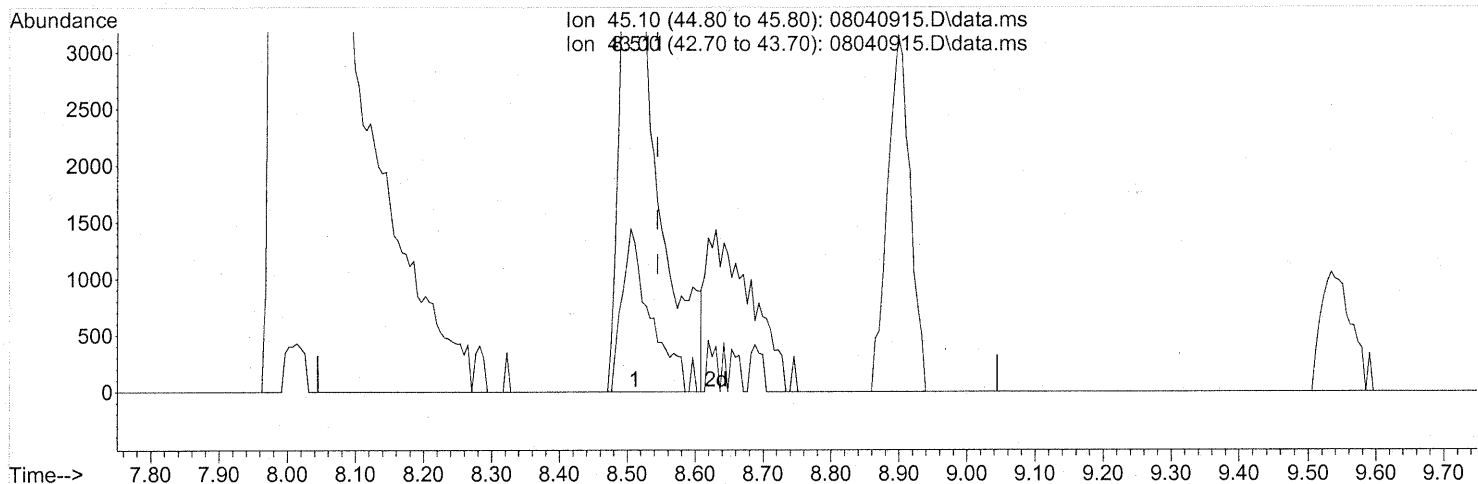
response 30132

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	65.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 07:55:14 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.511min (-0.034) 0.45ng

response 17228

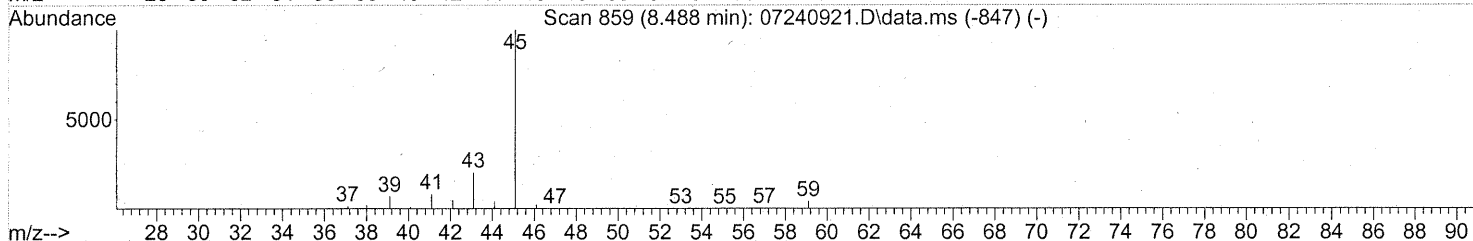
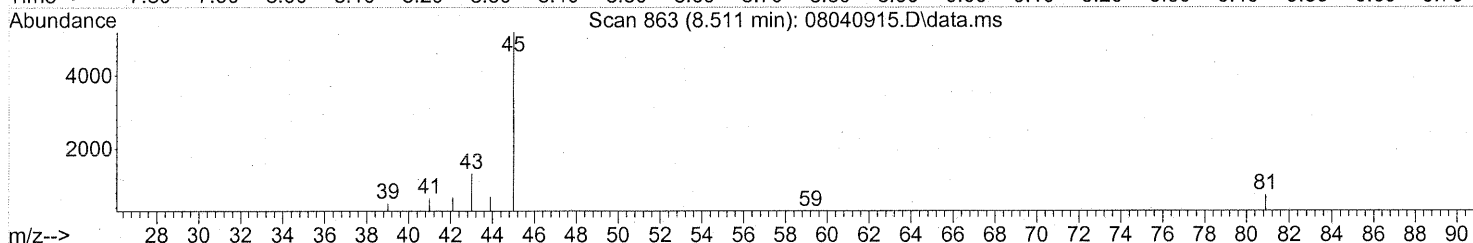
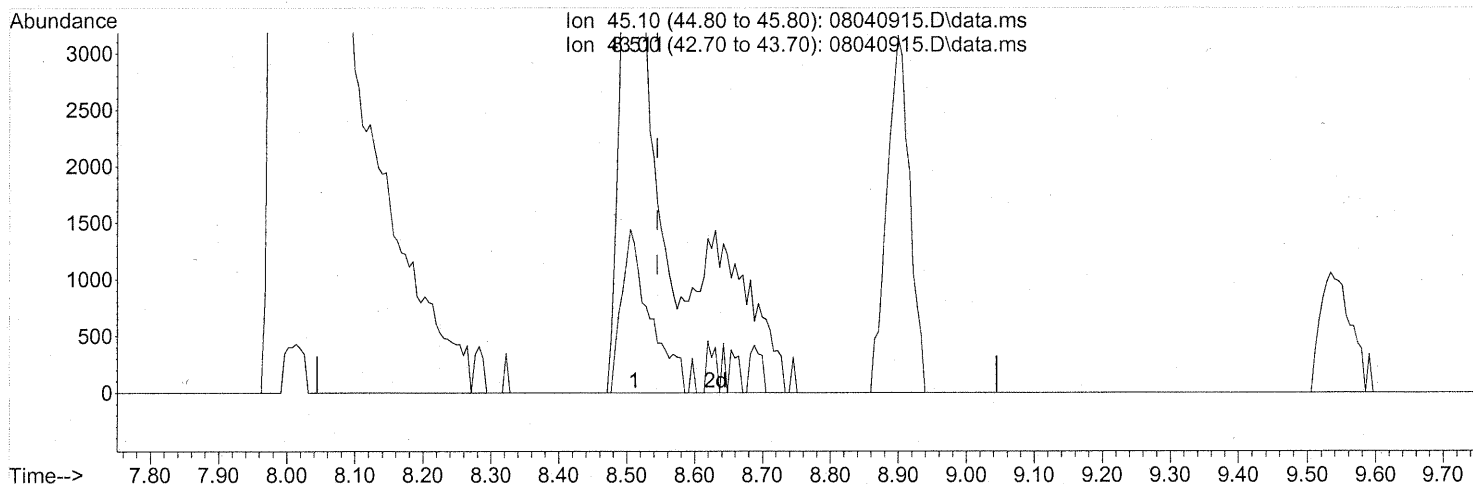
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	24.49
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 07:55:14 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.511min (-0.034) 0.61ng m

response 23732

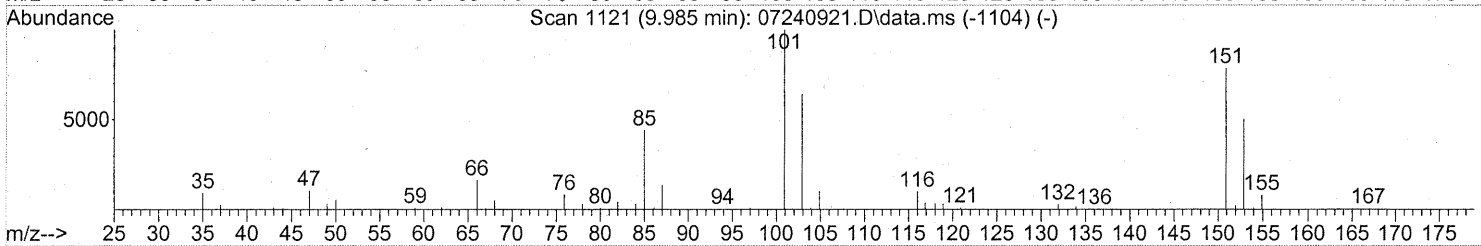
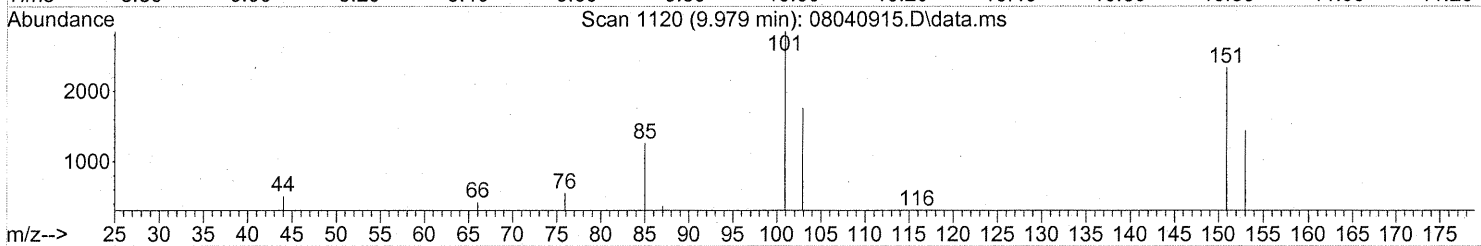
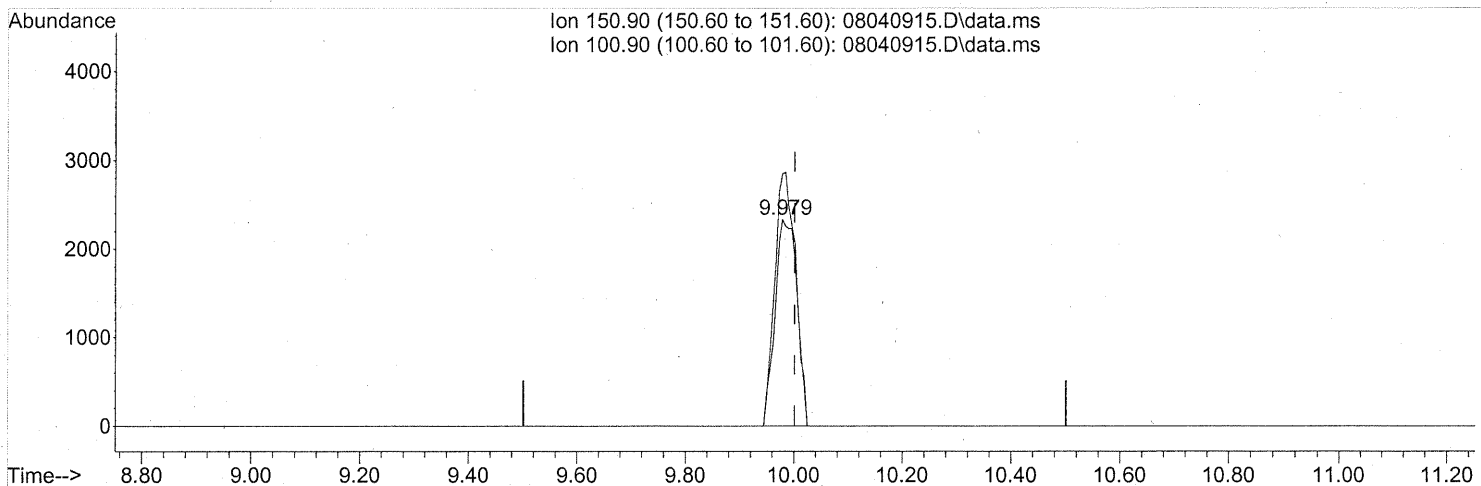
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.78
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/6/09
um 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.979min (-0.023) 0.42ng

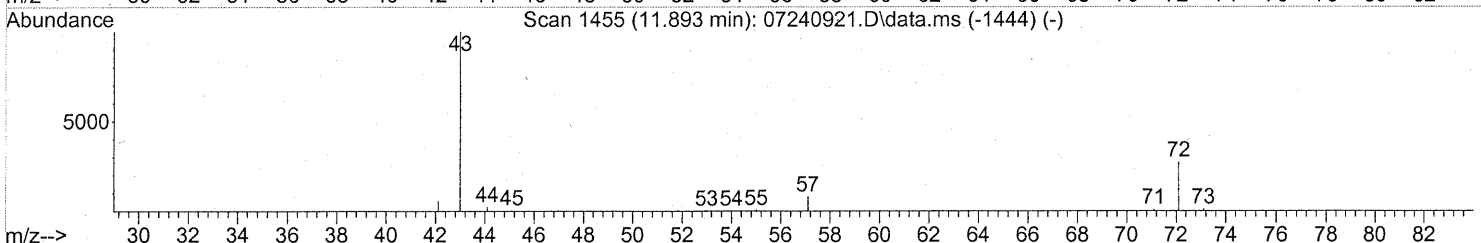
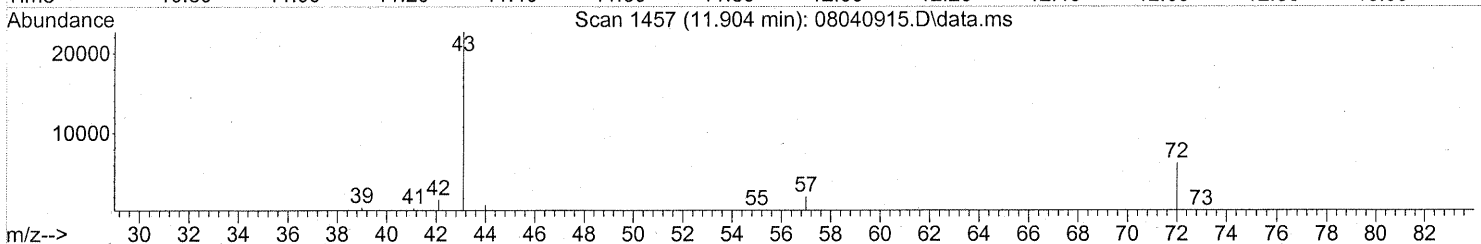
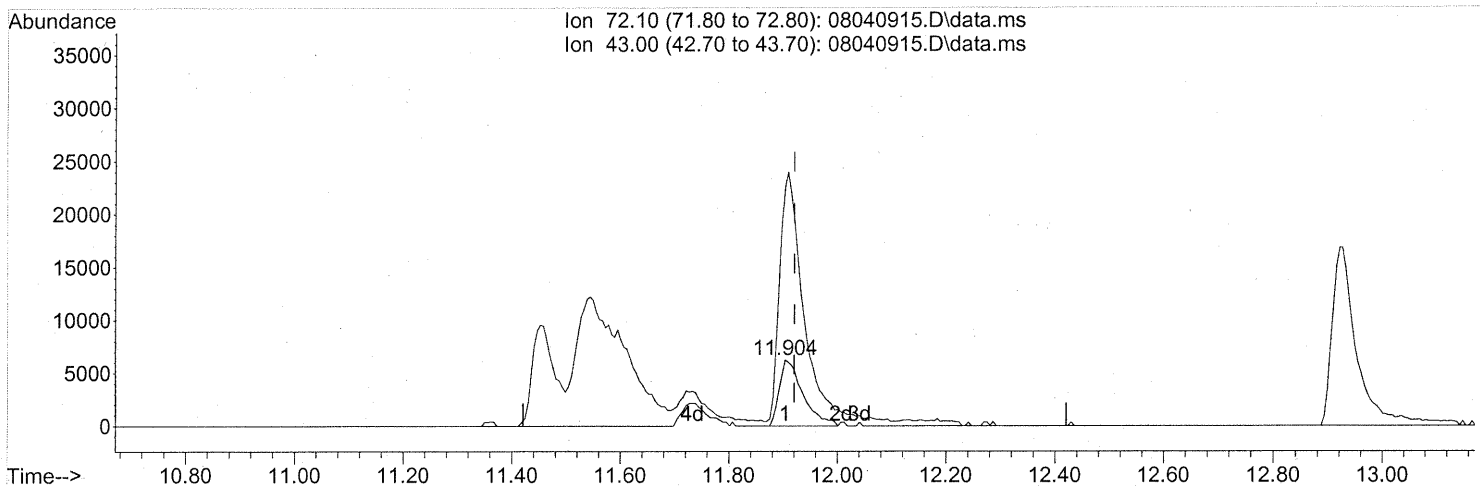
response 6503

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	116.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

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

11.904min (-0.017) 1.65ng

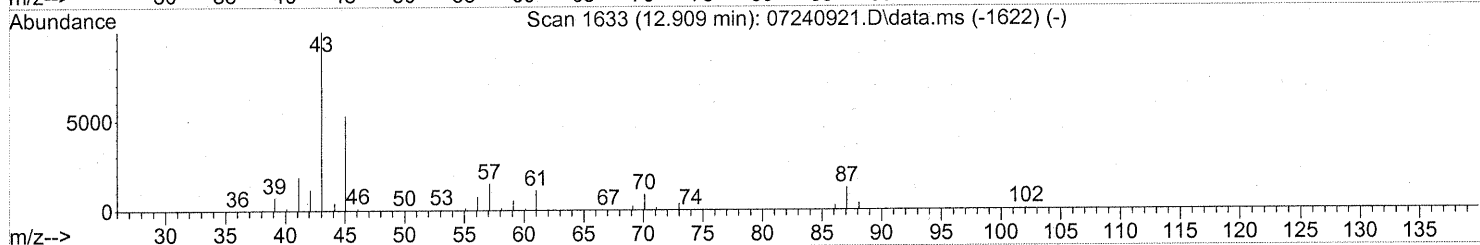
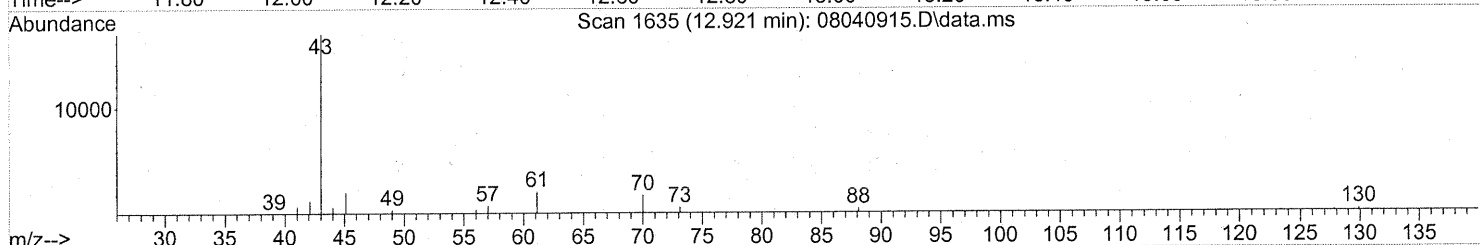
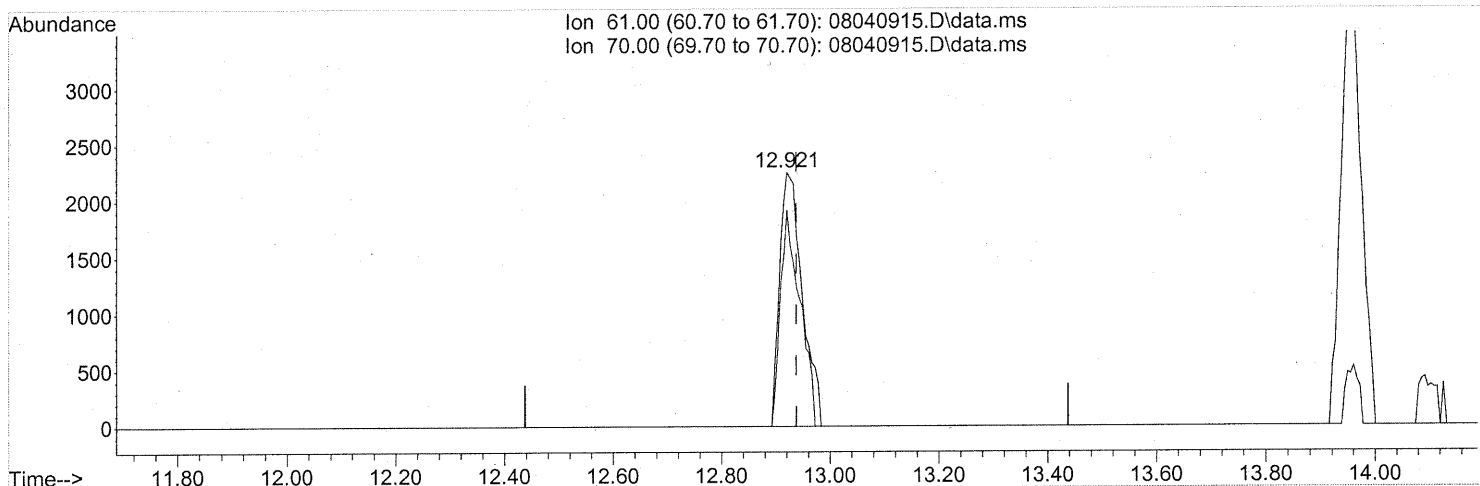
response 18509

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	417.35#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

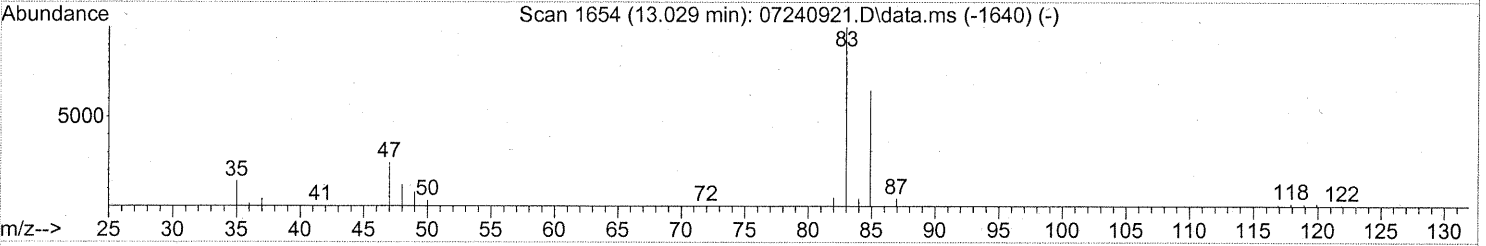
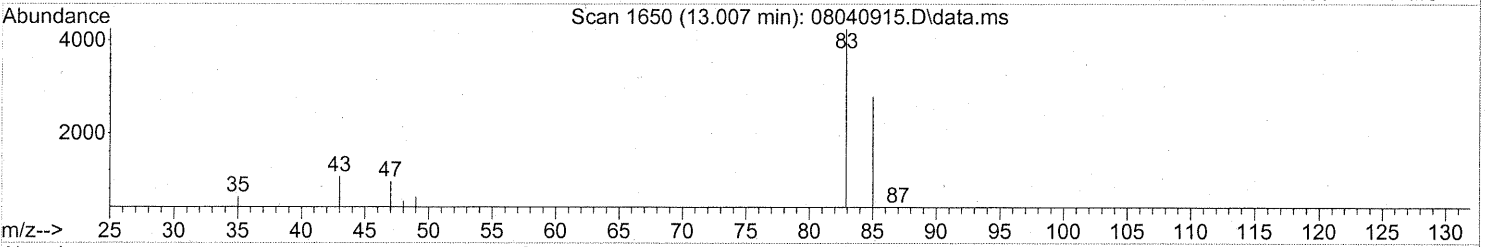
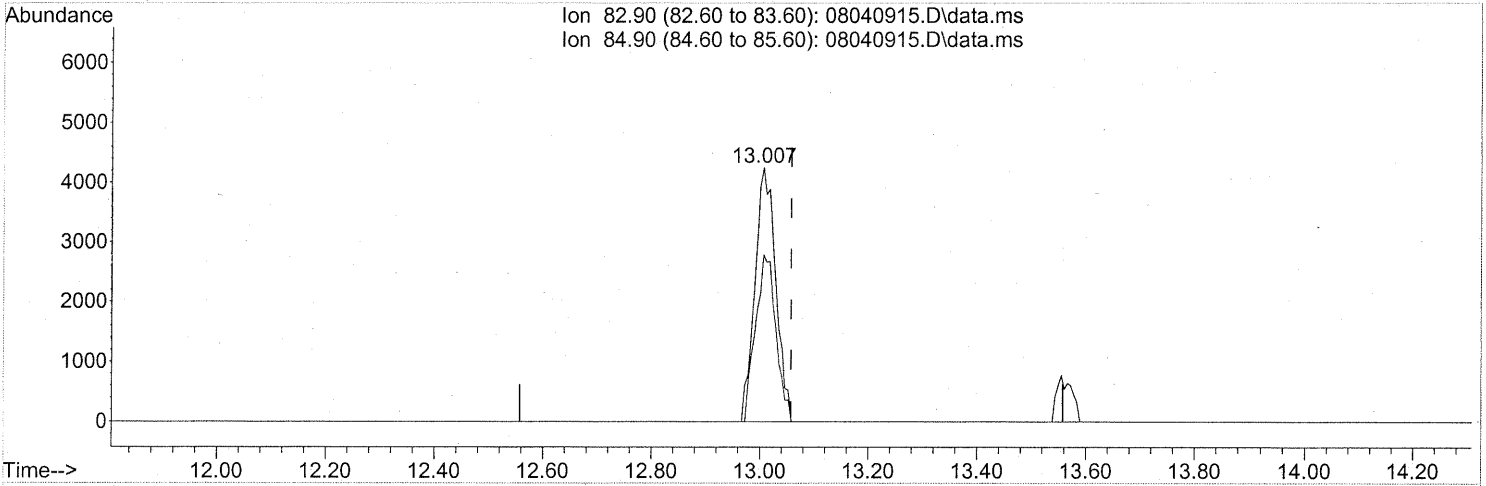
(30) Ethyl Acetate (T)
 12.921min (-0.017) 0.89ng
 response 6521

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	73.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(32) Chloroform (T)

13.007min (-0.051) 0.37ng

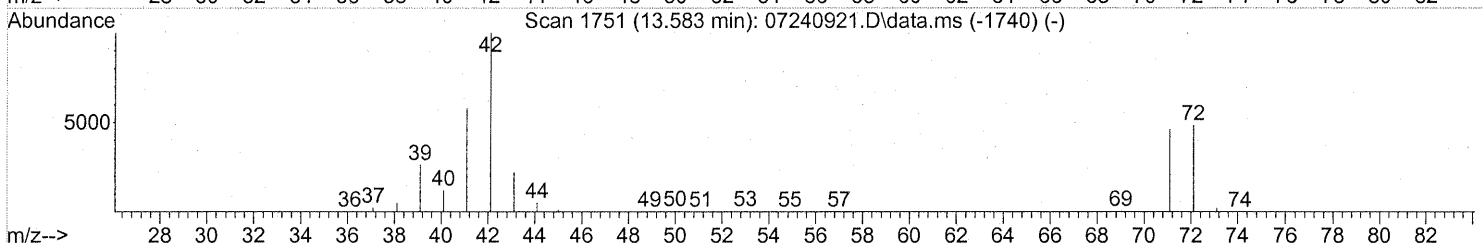
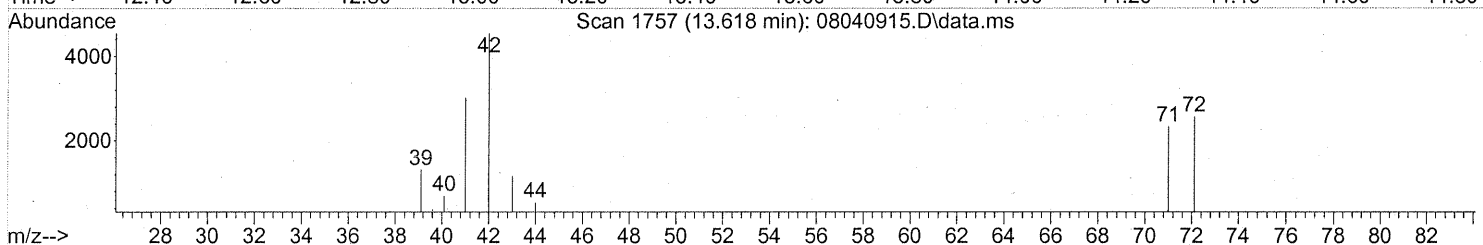
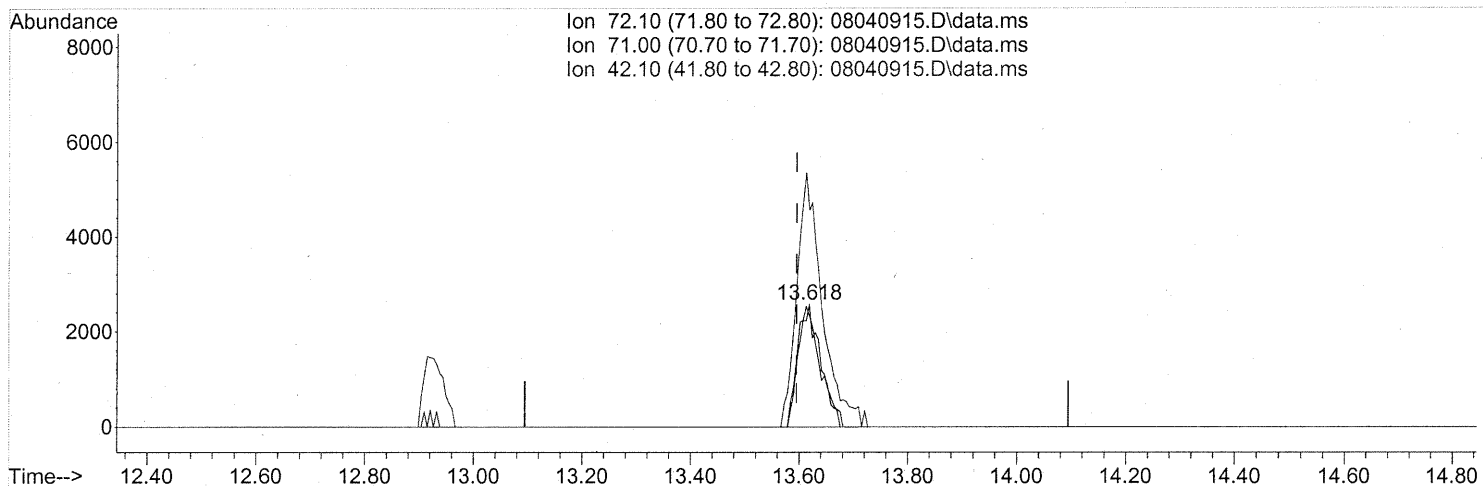
response 11288

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.618min (+0.023) 0.72ng

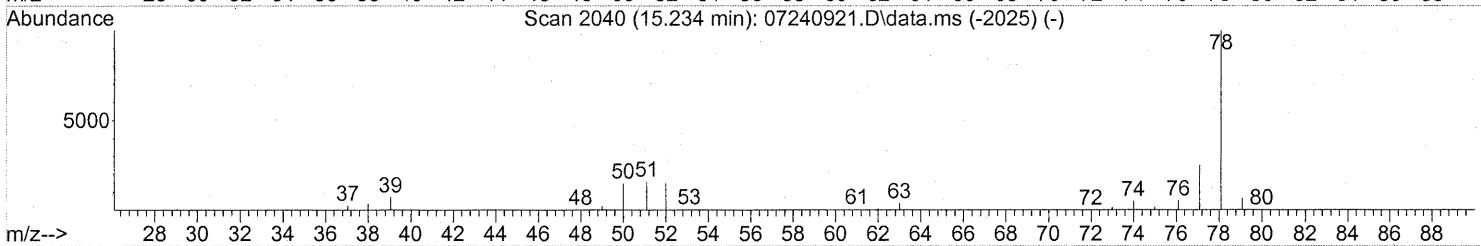
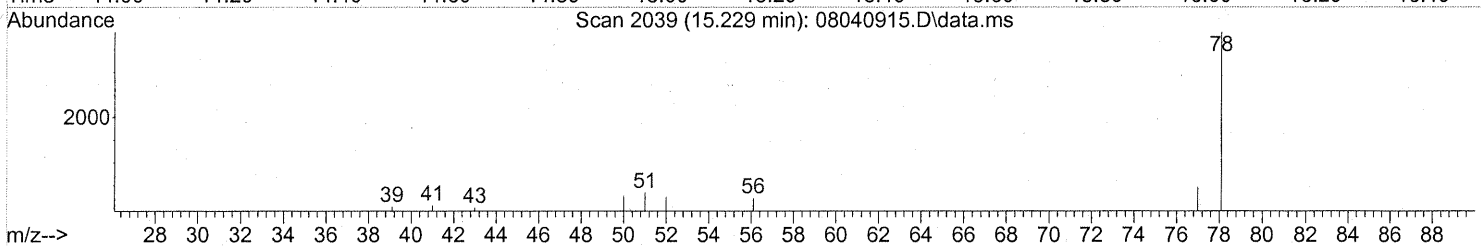
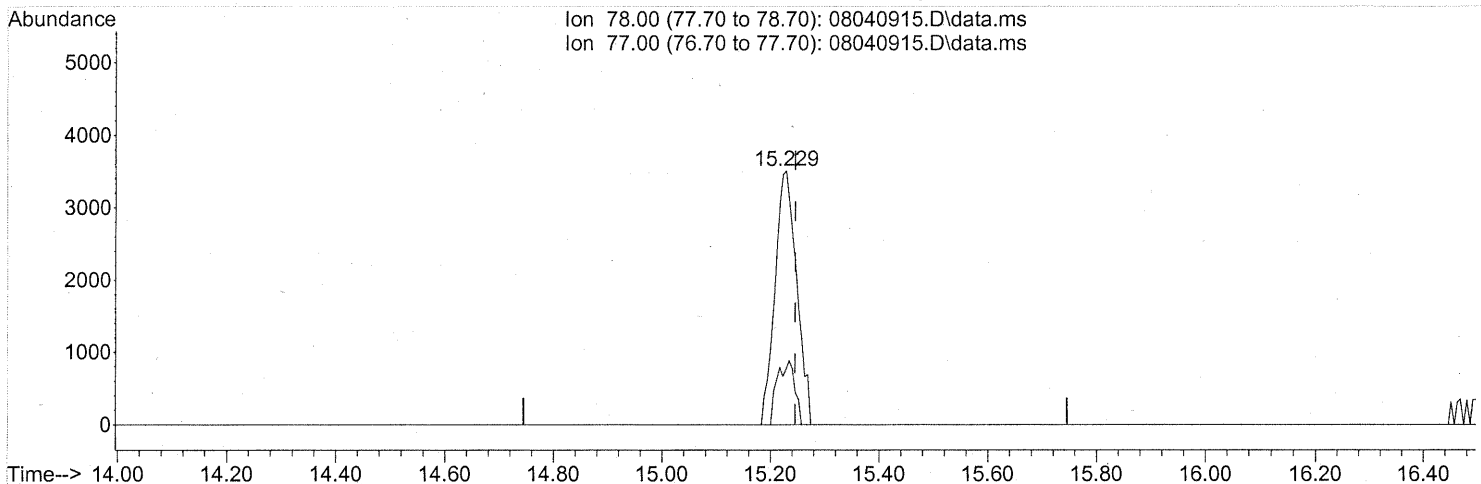
response 7658

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	93.00
42.10	206.50	228.21#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 0.11ng

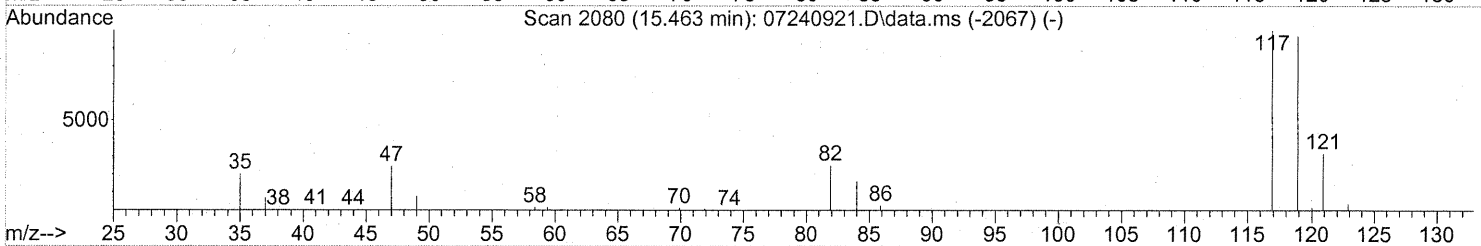
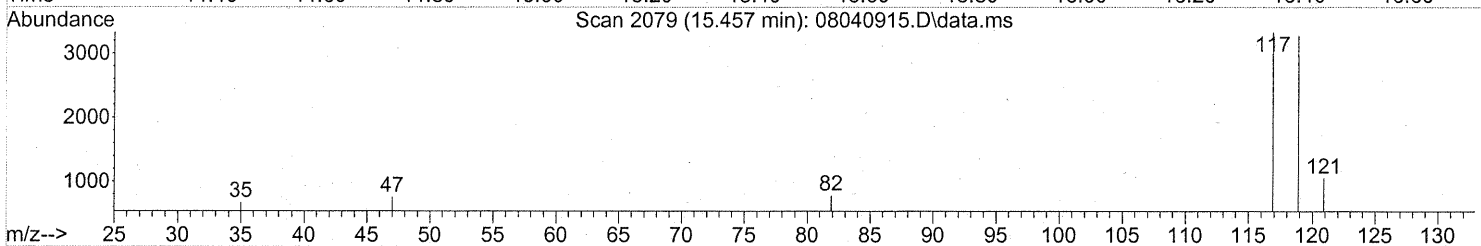
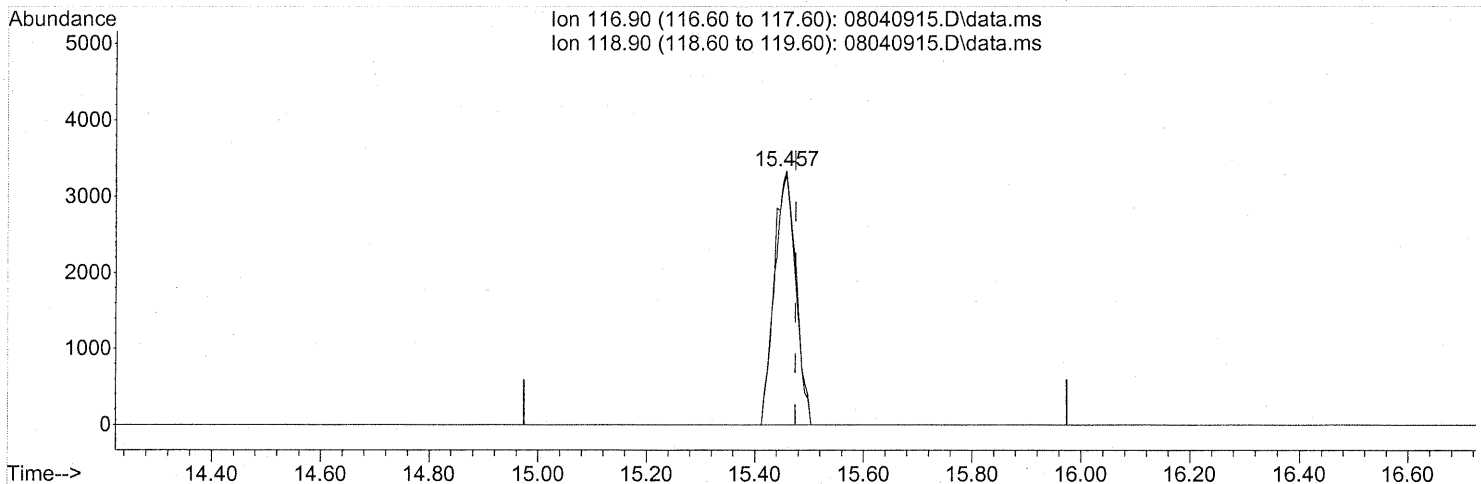
response 9677

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	20.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.36ng

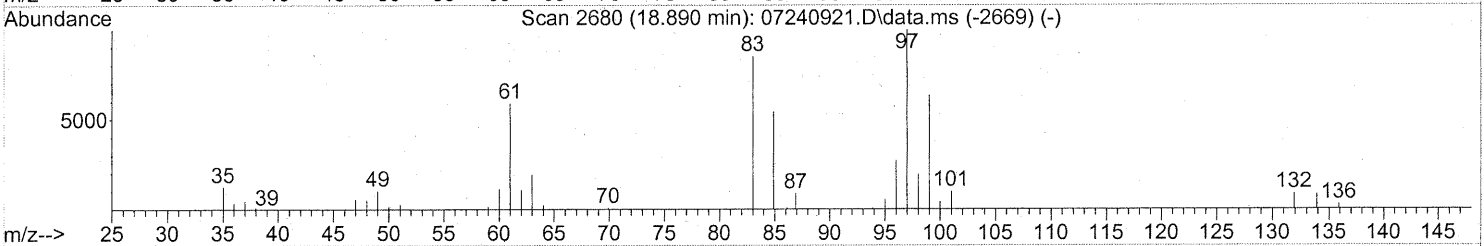
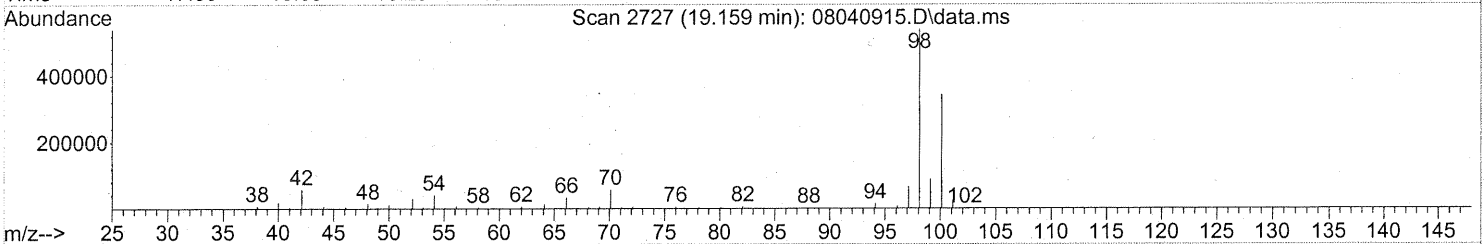
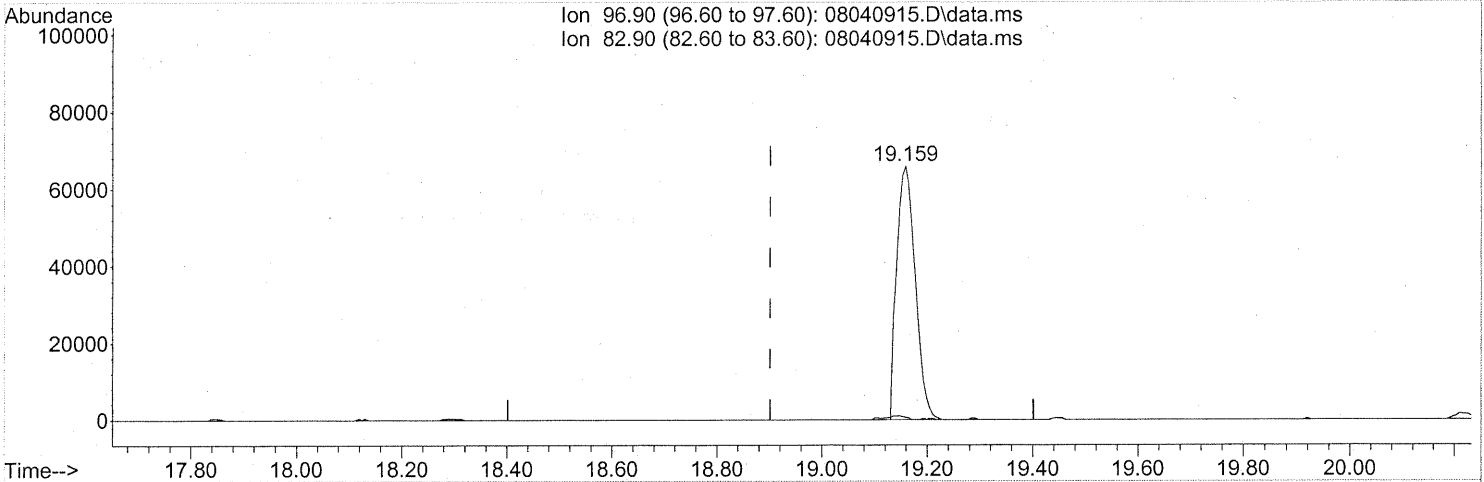
response 9159

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	95.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 07:55:14 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

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

19.159min (+0.257) 8.91ng

response 160184

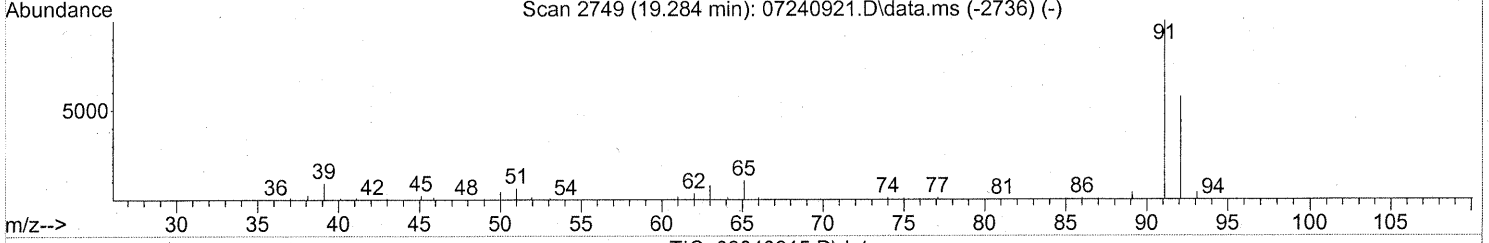
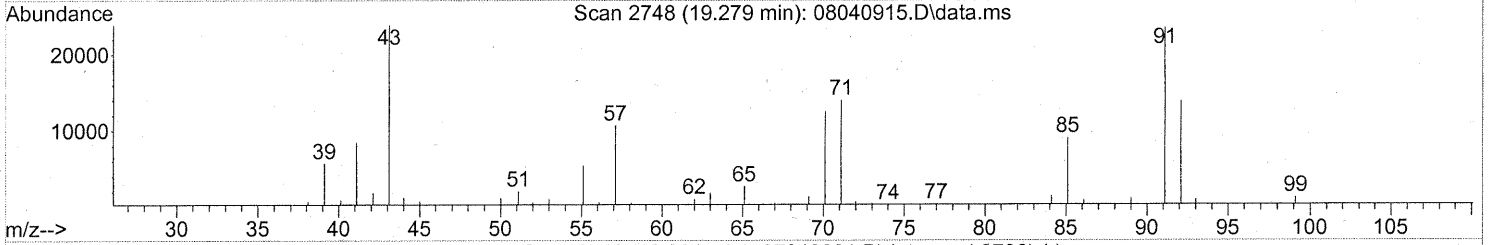
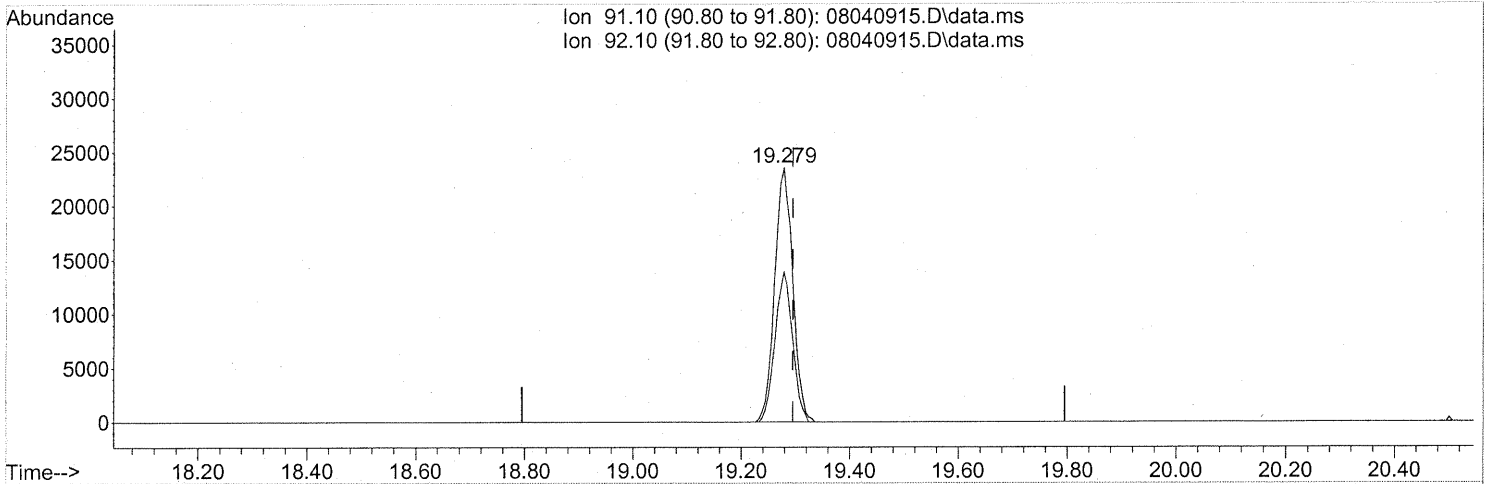
Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.52#
0.00	0.00	0.00
0.00	0.00	0.00

FP
 Em 8/6/09
 m 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(58) Toluene (T)

19.279min (-0.017) 0.57ng

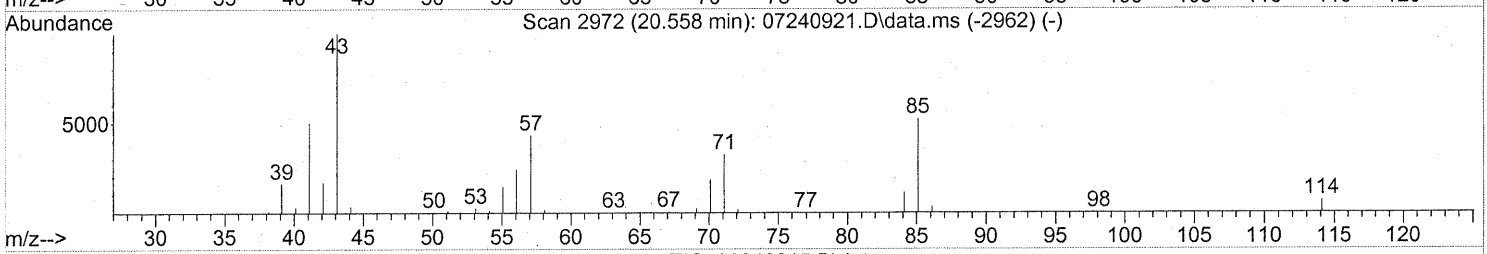
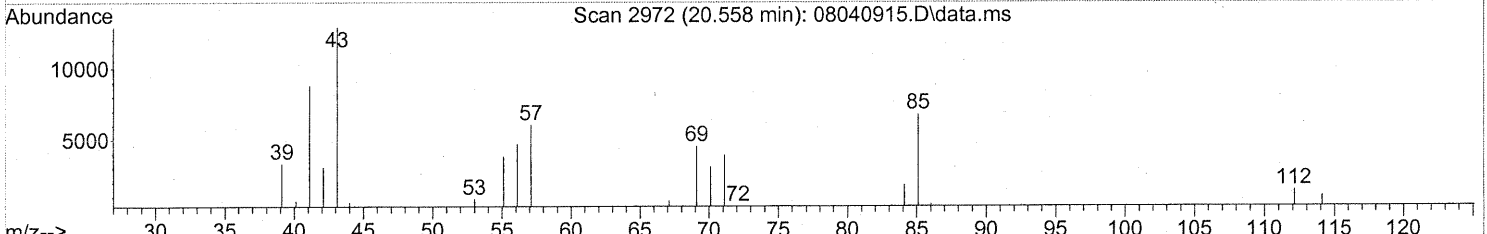
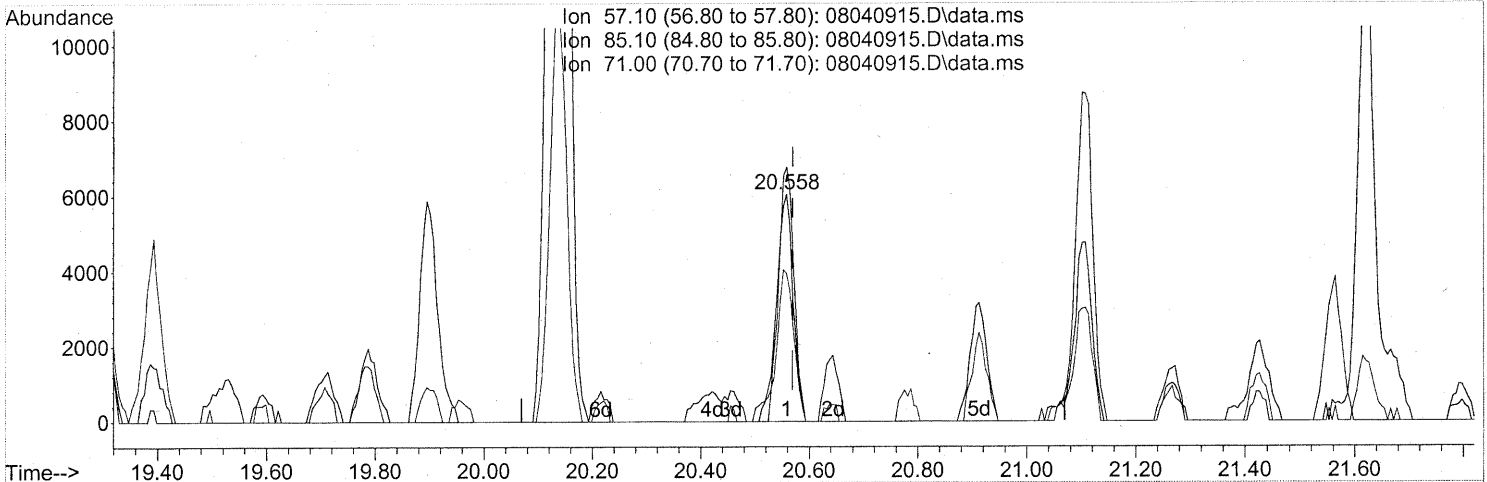
response 54073

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040915.D
 Acq On : 4 Aug 2009 17:36
 Operator : EM
 Sample : P0902624-003 (1000ml)
 Misc : Environmental H & E 99443
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 14:50:54 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040915.D\data.ms

(63) n-Octane (T)
 20.558min (-0.011) 0.69ng
 response 12887

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	104.21
71.00	75.10	71.54
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99444

Client Project ID: 16512

CAS Project ID: P0902624

CAS Sample ID: P0902624-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00214

Date Collected: 7/30/09
 Date Received: 7/31/09
 Date Analyzed: 8/4/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.6	0.62	1.5	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.2	0.62	0.85	0.13	
74-87-3	Chloromethane	0.83	0.12	0.40	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.089	
75-01-4	Vinyl Chloride	0.25	0.12	0.098	0.049	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	0.59	0.12	0.15	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	130	6.2	68	3.3	
75-05-8	Acetonitrile	270	0.62	160	0.37	D
107-02-8	Acrolein	6.2	0.62	2.7	0.27	
67-64-1	Acetone	170	6.2	72	2.6	
75-69-4	Trichlorofluoromethane	2.2	0.12	0.39	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	8.5	0.62	3.5	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.53	0.12	0.070	0.016	
75-15-0	Carbon Disulfide	2.3	0.62	0.75	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	6.6	6.2	1.9	1.8	
78-93-3	2-Butanone (MEK)	8.0	0.62	2.7	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.

D = The reported result is from a dilution.

Verified By: _____

Date: 8/14/09

166

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99444
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P0902624-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00214

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	3.8	0.62	1.1	0.17	
110-54-3	n-Hexane	0.79	0.62	0.22	0.18	
67-66-3	Chloroform	1.0	0.12	0.21	0.025	
109-99-9	Tetrahydrofuran (THF)	0.94	0.62	0.32	0.21	
107-06-2	1,2-Dichloroethane	0.35	0.12	0.087	0.031	
71-55-6	1,1,1-Trichloroethane	0.89	0.12	0.16	0.023	
71-43-2	Benzene	1.5	0.12	0.47	0.039	
56-23-5	Carbon Tetrachloride	0.61	0.12	0.097	0.020	
110-82-7	Cyclohexane	1.6	0.62	0.47	0.18	
78-87-5	1,2-Dichloropropane	0.13	0.12	0.028	0.027	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.019	
79-01-6	Trichloroethene	3.6	0.12	0.67	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	3.0	0.62	0.73	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	0.71	0.62	0.17	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	37	0.62	9.8	0.16	
591-78-6	2-Hexanone	ND	0.62	ND	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	1.0	0.62	0.22	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: 8/19/09

167

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99444
Client Project ID: 16512

CAS Project ID: P0902624
CAS Sample ID: P0902624-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00214

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): 0.0 **Final Pressure (psig):** 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.6	0.62	0.57	0.13	
127-18-4	Tetrachloroethene	2.4	0.12	0.35	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	4.0	0.62	0.92	0.14	
179601-23-1	m,p-Xylenes	11	0.62	2.4	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	1.8	0.62	0.43	0.15	
95-47-6	o-Xylene	4.0	0.62	0.91	0.14	
111-84-2	n-Nonane	2.5	0.62	0.47	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.62	ND	0.13	
80-56-8	alpha-Pinene	100	0.62	18	0.11	D
103-65-1	n-Propylbenzene	ND	0.62	ND	0.13	
622-96-8	4-Ethyltoluene	0.67	0.62	0.14	0.13	
108-67-8	1,3,5-Trimethylbenzene	0.93	0.62	0.19	0.13	
95-63-6	1,2,4-Trimethylbenzene	2.6	0.62	0.54	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.12	ND	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.021	
5989-27-5	d-Limonene	12	0.62	2.1	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.12	ND	0.017	
91-20-3	Naphthalene	ND	0.25	ND	0.047	
87-68-3	Hexachlorobutadiene	ND	0.12	ND	0.012	

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.

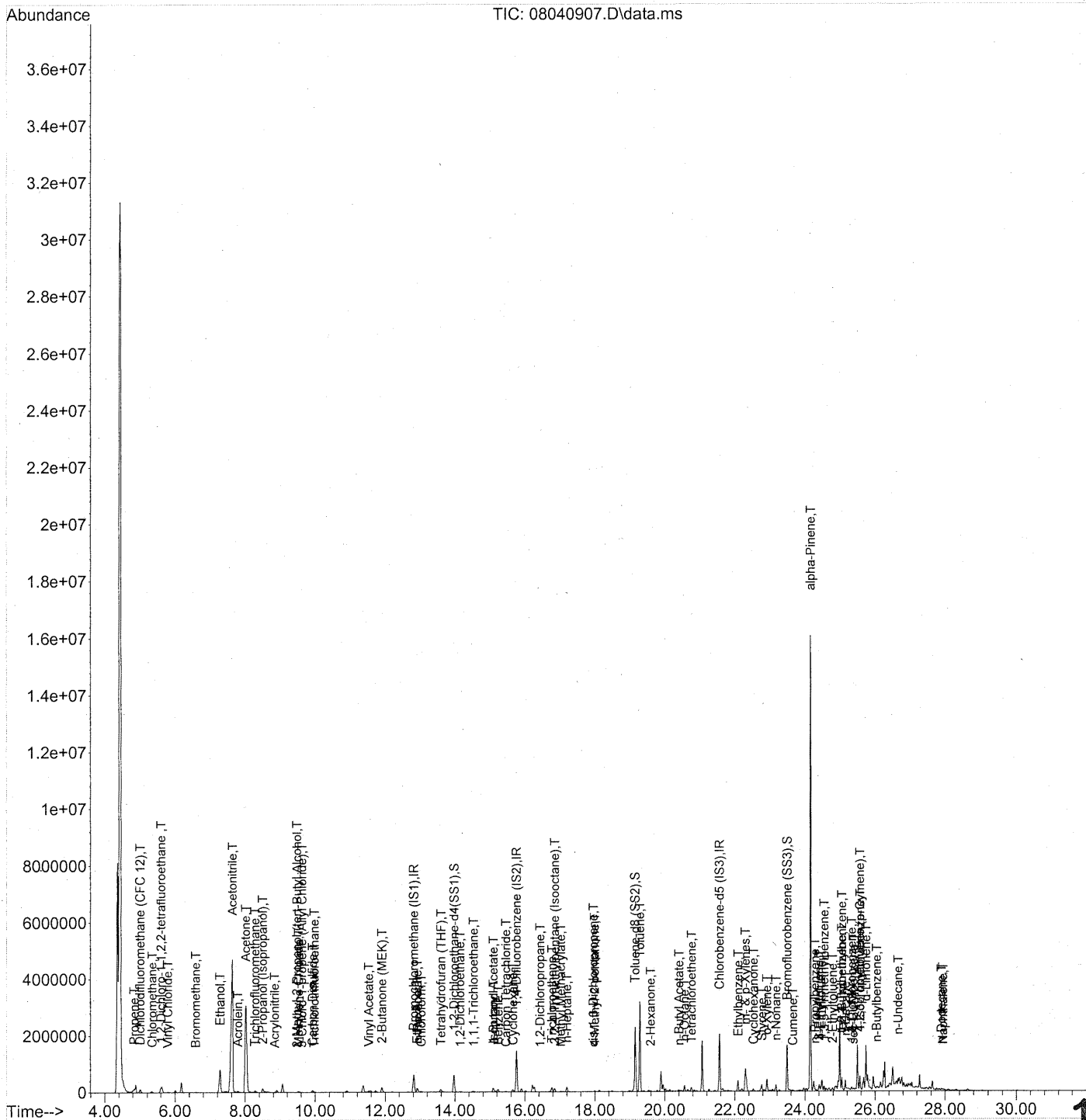
Verified By: _____

Date: 8/11/09

168

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444 ✓
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	347604	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1731858	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	823997	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	603998	24.560	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	98.24%	
57) Toluene-d8 (SS2)	19.15	98	1988660	24.395	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	97.56%	
73) Bromofluorobenzene (SS3)	23.49	174	587608	23.976	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	95.92%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	46235m	2.108	ng	
3) Dichlorodifluoromethan...	5.00	85	149115	3.407	ng	98
4) Chloromethane	5.35	50	21906	0.668	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1580	0.064	ng	# 43
6) Vinyl Chloride	5.79	62	7051	0.202	ng	94
7) 1,3-Butadiene	6.09	54	532	N.D.		
8) Bromomethane	6.58	94	9830	0.477	ng	99
9) Chloroethane	6.93	64	516	N.D.		
10) Ethanol	7.27	45	1496719m	102.864	ng	
11) Acetonitrile	7.63	41	9181896	279.077	ng	See Dil 100
12) Acrolein	7.79	56	53237	5.019	ng	98
13) Acetone	8.02	58	2266949	136.975	ng	95
14) Trichlorofluoromethane	8.28	101	67163	1.762	ng	94
15) 2-Propanol (Isopropanol)	8.49	45	298651m	6.858	ng	
16) Acrylonitrile	8.84	53	4327	0.195	ng	83
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	18163	0.370	ng	81
19) Methylene Chloride	9.53	84	4263	0.195	ng	94
20) 3-Chloro-1-propene (Al...	9.62	41	1867	0.079	ng	# 34
21) Trichlorotrifluoroethane	9.98	151	7459	0.431	ng	# 80
22) Carbon Disulfide	9.93	76	141416	1.895	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.37	63	1416	N.D.		
25) Methyl tert-Butyl Ether	11.36	73	653	N.D.		
26) Vinyl Acetate	11.53	86	20991	5.318	ng	# 58
27) 2-Butanone (MEK)	11.90	72	81432	6.451	ng	98
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	103	N.D.		
30) Ethyl Acetate	12.91	61	25251	3.054	ng	99
31) n-Hexane	12.92	57	24383	0.638	ng	10170

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	28580	0.823 ng		97
34) Tetrahydrofuran (THF)	13.60	72	9028	0.759 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.14	62	7865	0.283 ng		93
38) 1,1,1-Trichloroethane	14.53	97	22781	0.717 ng		99
39) Isopropyl Acetate	15.09	61	1439	0.114 ng	#	1
40) 1-Butanol	15.09	56	144131	6.698 ng		79
41) Benzene	15.23	78	111601	1.208 ng		100
42) Carbon Tetrachloride	15.46	117	13386	0.493 ng		97
43) Cyclohexane	15.65	84	45411	1.315 ng		97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.43	63	2008	0.103 ng		98
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.77	130	68765	2.913 ng		99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	113860	1.272 ng		95
50) Methyl Methacrylate	17.03	100	4035	0.466 ng	#	84
51) n-Heptane	17.20	71	54255	2.426 ng		99
52) cis-1,3-Dichloropropene	17.96	75	2216	0.068 ng		76
53) 4-Methyl-2-pentanone	17.99	58	10019	0.573 ng		99
54) trans-1,3-Dichloropropene	18.66	75	857	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	19.28	91	2980930	29.872 ng		100
59) 2-Hexanone	19.59	43	16603	0.387 ng	#	50
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	40298	0.845 ng	#	75
63) n-Octane	20.56	57	41599	2.133 ng		100
64) Tetrachloroethene	20.76	166	50495	1.914 ng		98
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	22.09	91	350091	3.226 ng		99
67) m- & p-Xylenes	22.30	91	762414	8.520 ng		100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.77	104	97159	1.472 ng		99
70) o-Xylene	22.92	91	284550	3.192 ng		99
71) n-Nonane	23.17	43	86621	1.990 ng		97
72) 1,1,2,2-Tetrachloroethane	22.92	83	1726	N.D.		
74) Cumene	23.65	105	19056	0.161 ng		100
75) alpha-Pinene	24.15	93	7298012	128.992 ng	See Dil.	100
76) n-Propylbenzene	24.28	91	50212	0.352 ng	#	88
77) 3-Ethyltoluene	24.40	105	123563	1.101 ng		98
78) 4-Ethyltoluene	24.46	105	60707	0.539 ng		96
79) 1,3,5-Trimethylbenzene	24.55	105	70541	0.753 ng		97

171

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
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Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

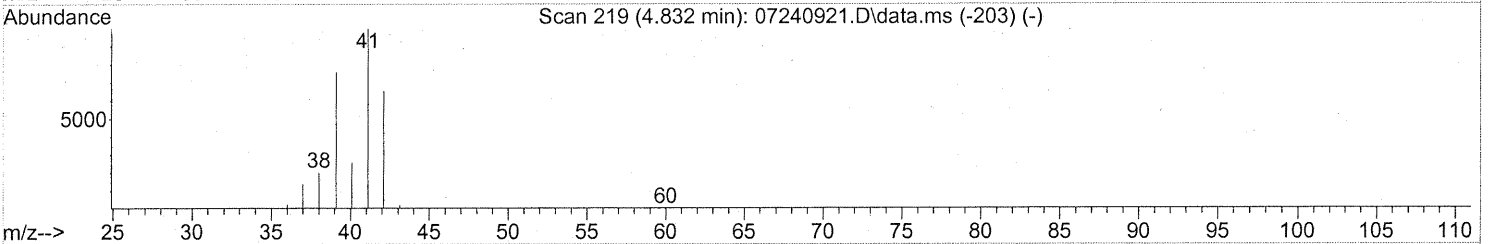
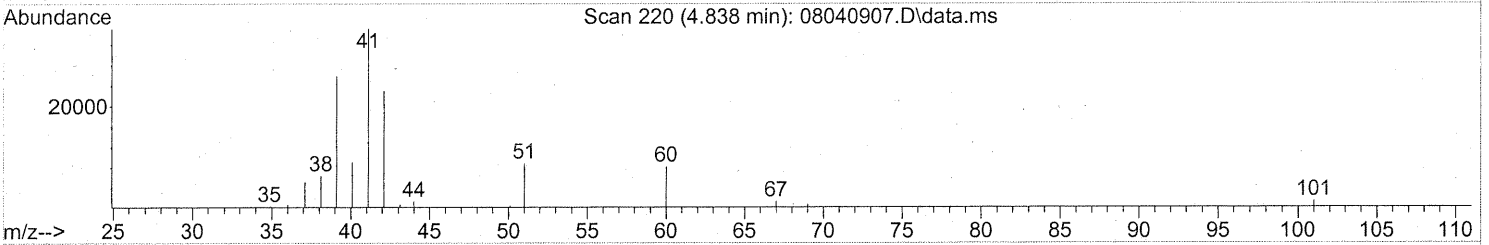
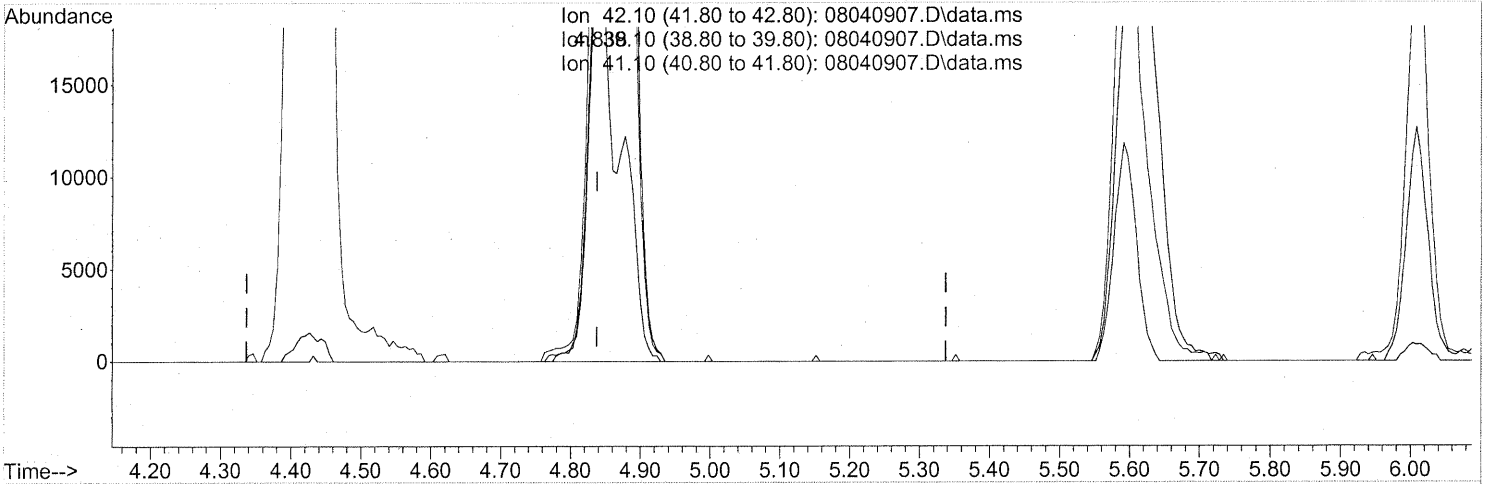
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	1326	N.D.		
81) 2-Ethyltoluene	24.79	105	64253	0.547 ng		96
82) 1,2,4-Trimethylbenzene	25.05	105	223125	2.131 ng		90
83) n-Decane	25.15	57	133509	2.639 ng		96
84) Benzyl Chloride	25.24	91	850	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	4686	0.085 ng		98
86) 1,4-Dichlorobenzene	25.33	146	4686	0.082 ng		99
87) sec-Butylbenzene	25.38	105	7296	0.056 ng	#	82
88) 4-Isopropyltoluene (p-...	25.56	119	179114	1.357 ng		98
89) 1,2,3-Trimethylbenzene	25.57	105	77221	0.724 ng		86
90) 1,2-Dichlorobenzene	25.33	146	4686	0.082 ng		98
91) d-Limonene	25.74	68	396964	9.541 ng		98
92) 1,2-Dibromo-3-Chloropr...	26.66	157	365	N.D.		
93) n-Undecane	26.65	57	93652	1.808 ng		96
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	21815	0.170 ng		97
96) n-Dodecane	27.89	57	19999	0.361 ng		89
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	17653	0.586 ng	#	82
99) tert-Butylbenzene	25.05	119	27756	0.262 ng	#	54
100) n-Butylbenzene	26.05	91	15153	0.145 ng	#	1

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 11:58:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(2) Propene (T)

4.838min (-0.000) 3.13ng

response 68720

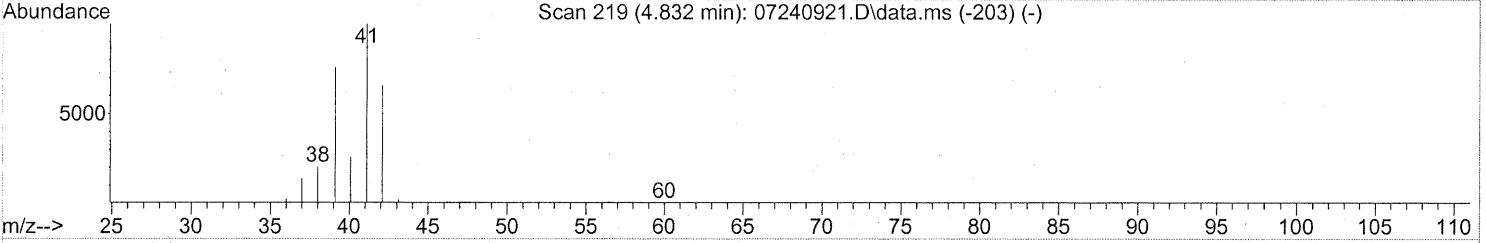
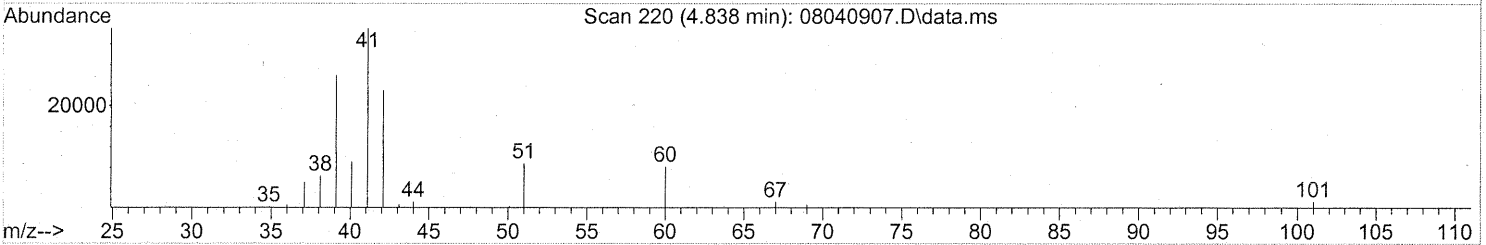
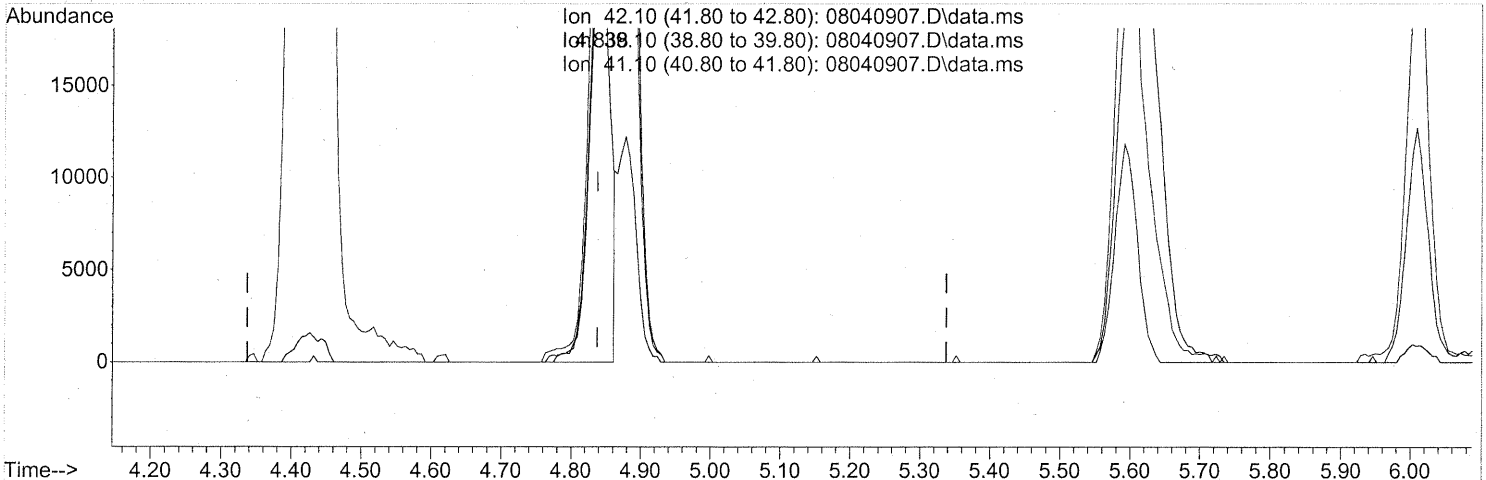
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	72.87#
41.10	152.70	107.07#
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
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 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 11:58:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.838min (-0.000) 2.11ng m
 response 46235

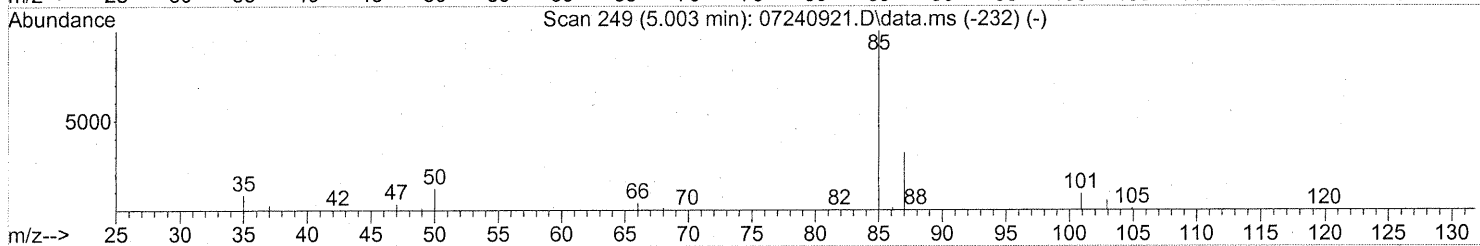
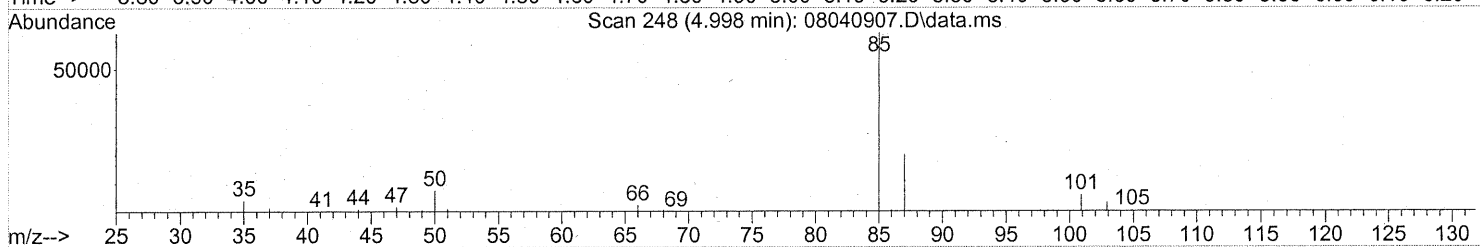
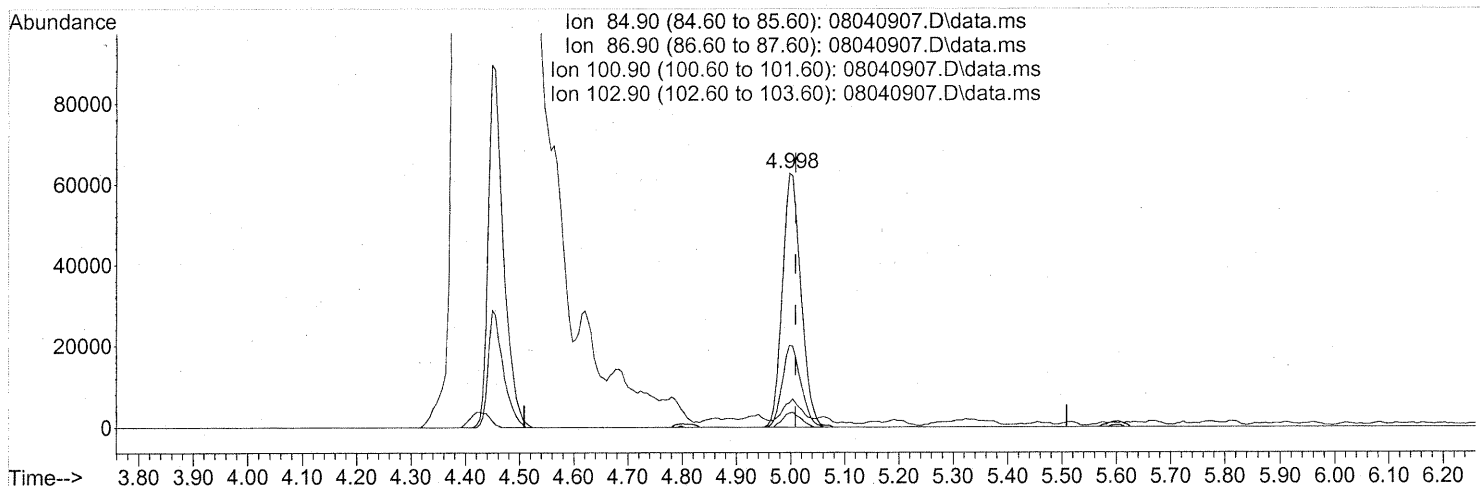
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	108.30
41.10	152.70	159.14
0.00	0.00	0.00

SH → IC
 Lem 8/6/09
 UM 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.998min (-0.011) 3.41ng

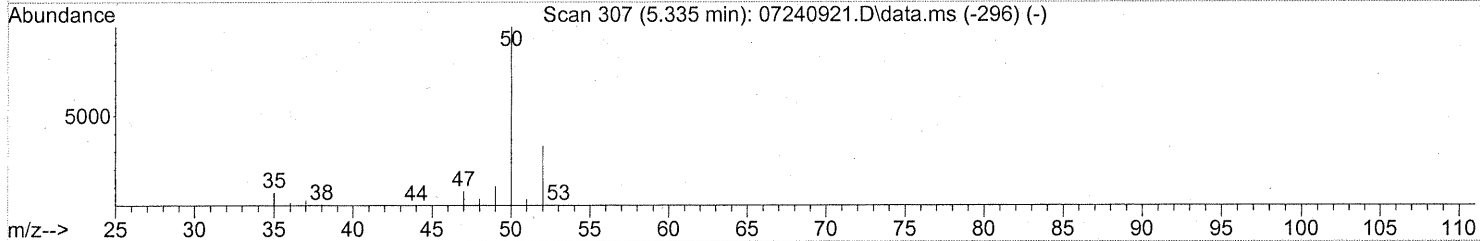
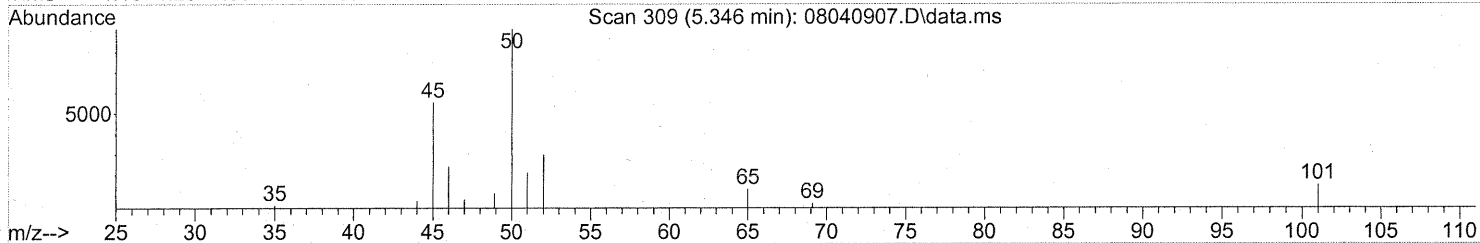
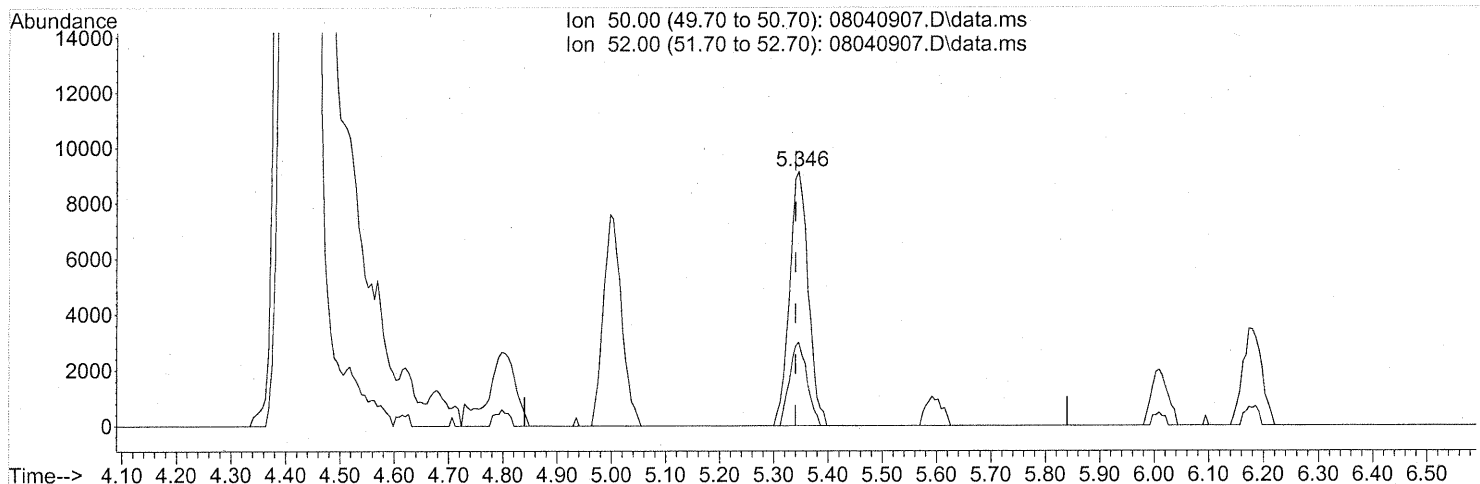
response 149115

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.14
100.90	9.10	12.40
102.90	5.50	5.43

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(4) Chloromethane (T)

5.346min (+0.006) 0.67ng

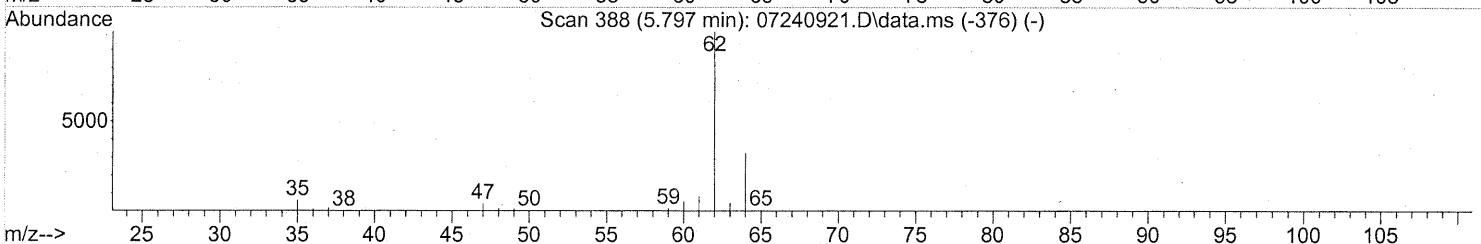
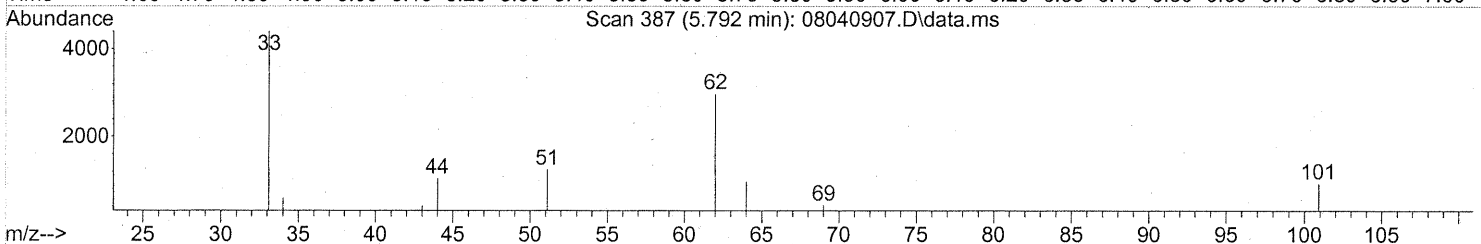
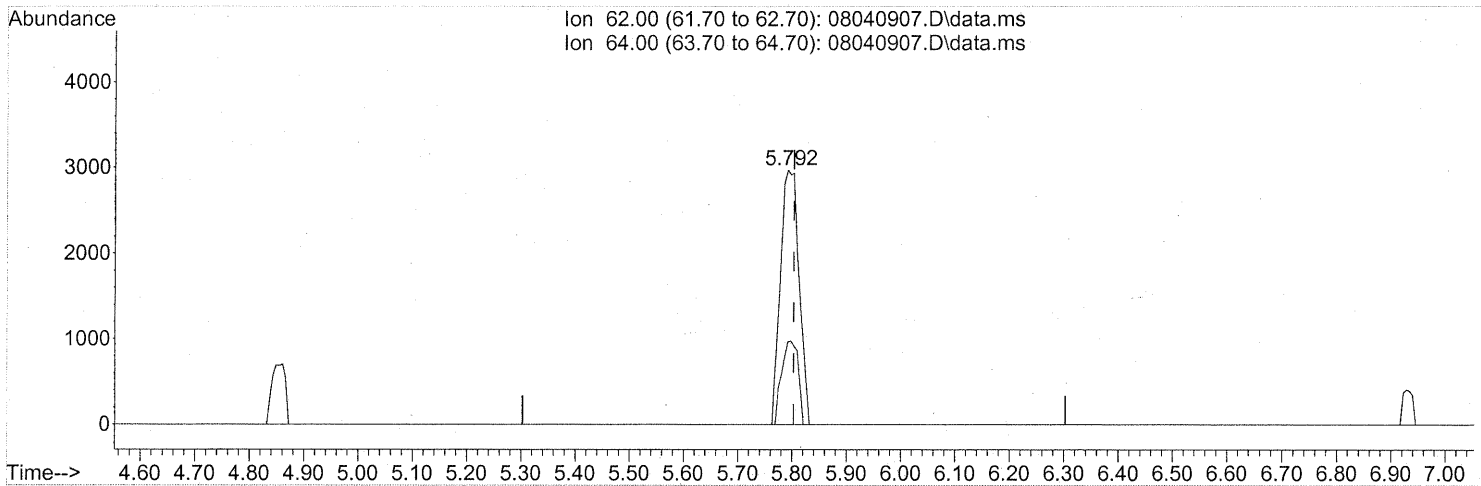
response 21906

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(6) Vinyl Chloride (T)

5.792min (-0.011) 0.20ng

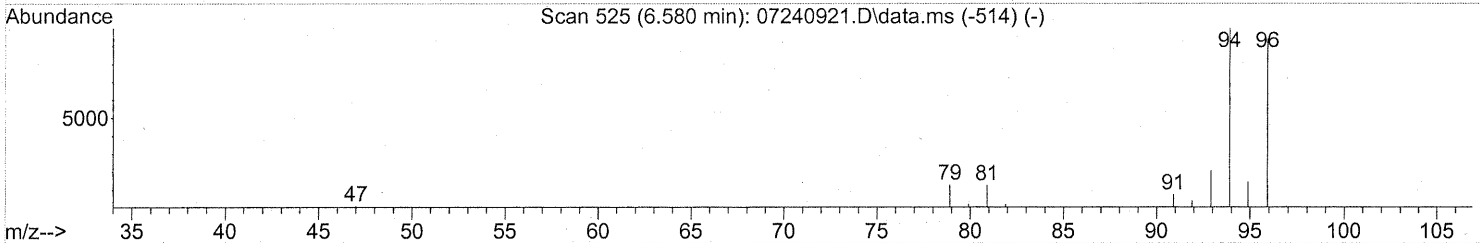
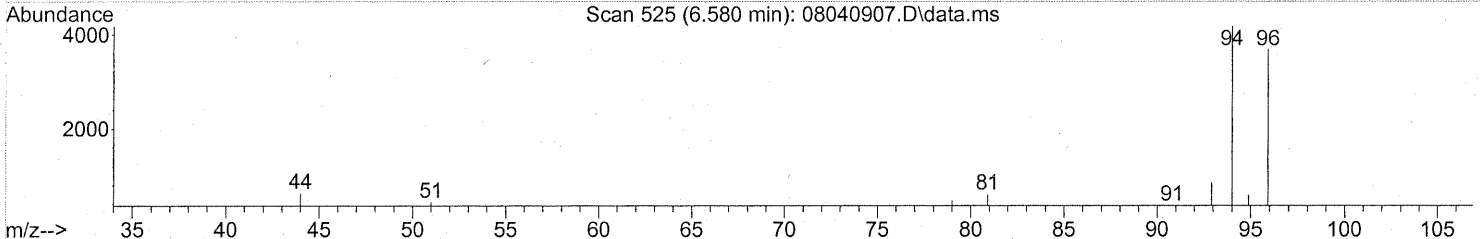
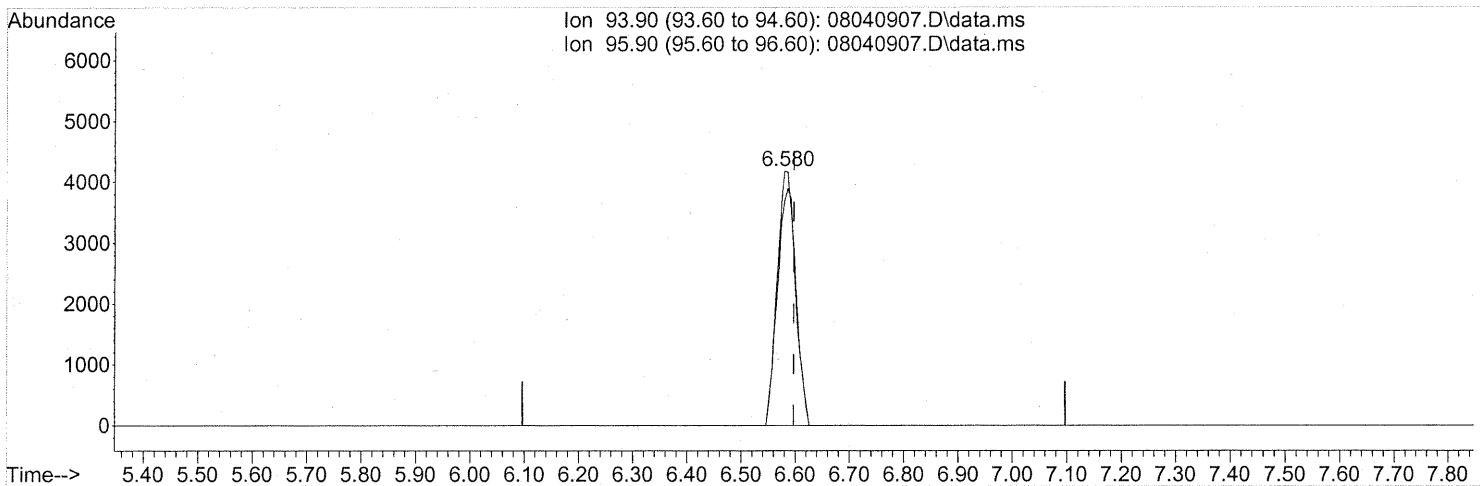
response 7051

Ion	Exp%	Act%
62.00	100	100
64.00	32.40	28.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(8) Bromomethane (T)

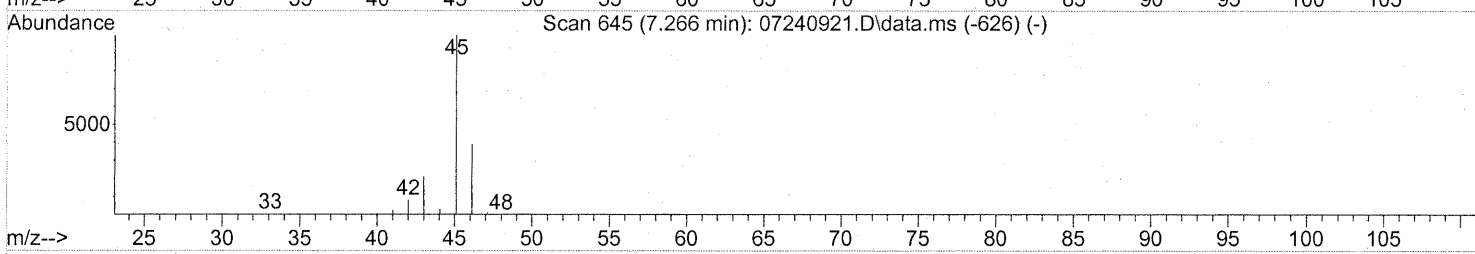
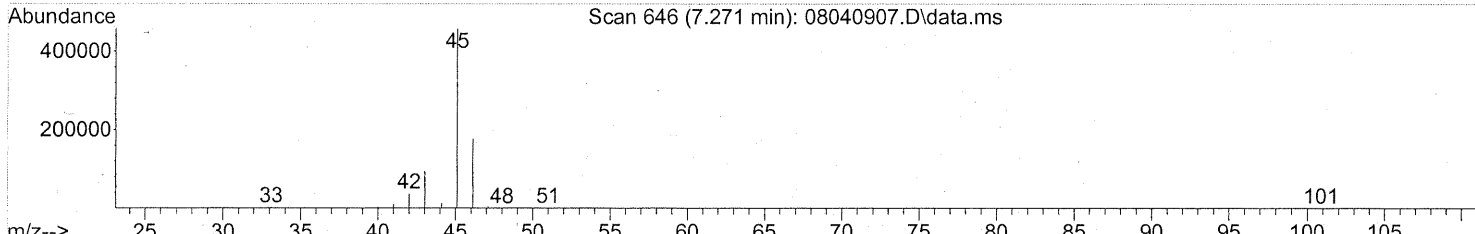
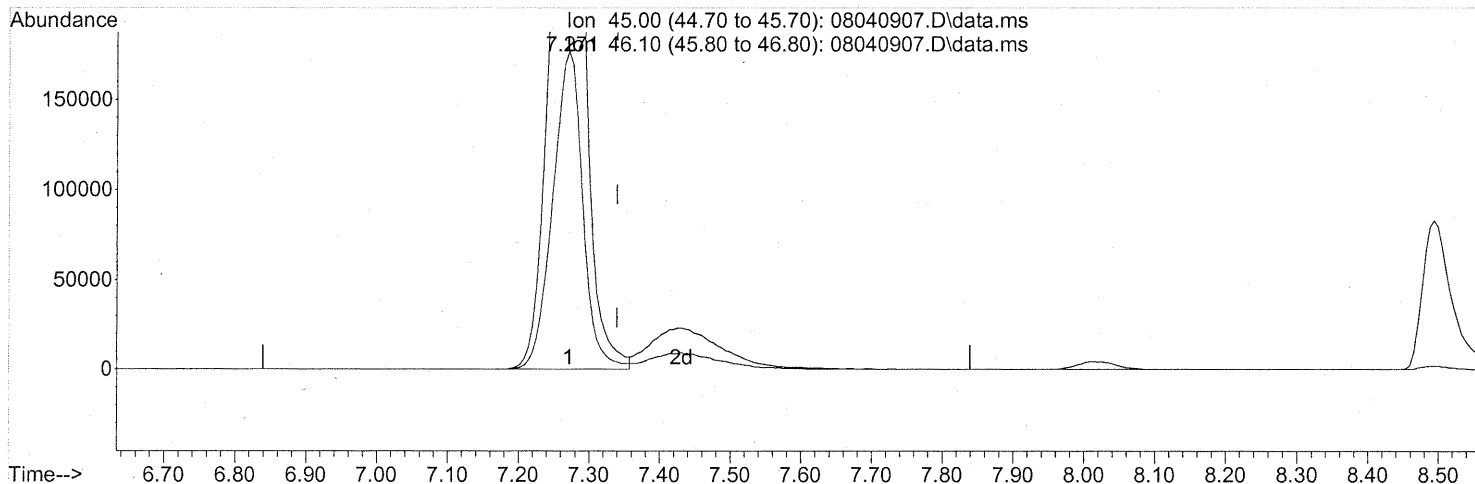
6.580min (-0.017) 0.48ng
 response 9830

Ion	Exp%	Act%
93.90	100	100
95.90	94.20	93.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 11:58:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(10) Ethanol (T)
 7.271min (-0.069) 91.76ng
 response 1335112

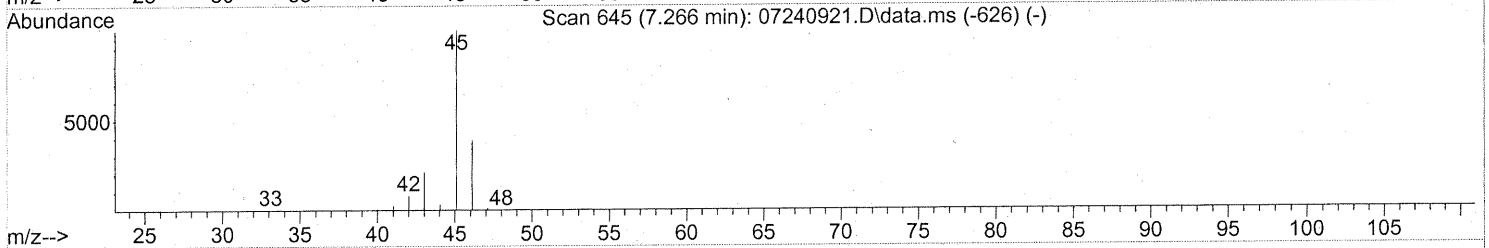
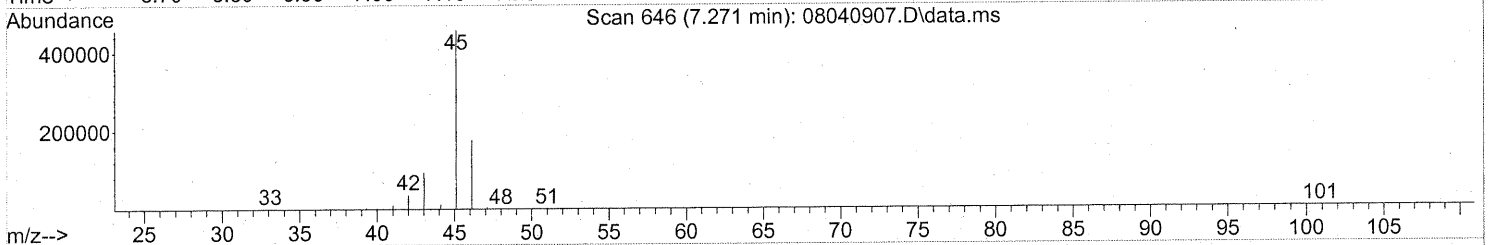
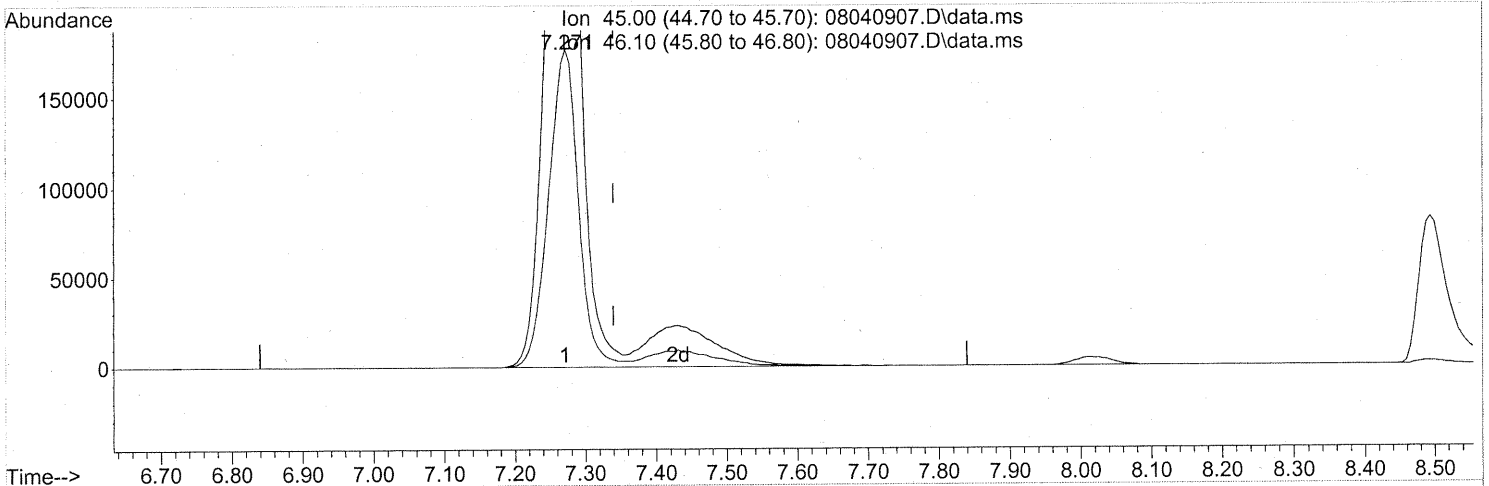
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 08040907.D\data.ms

(10) Ethanol (T)
 7.271min (-0.069) 102.86ng m

response 1496719

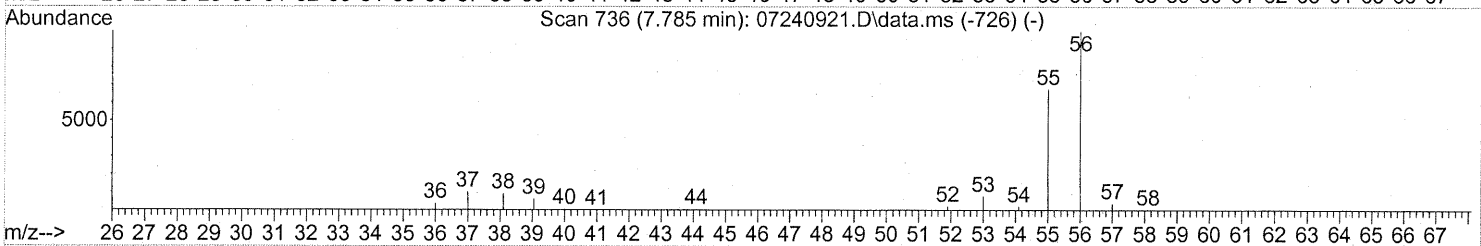
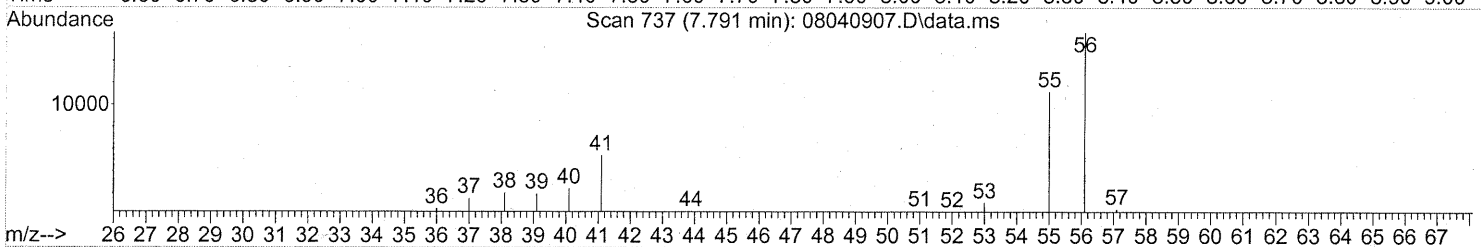
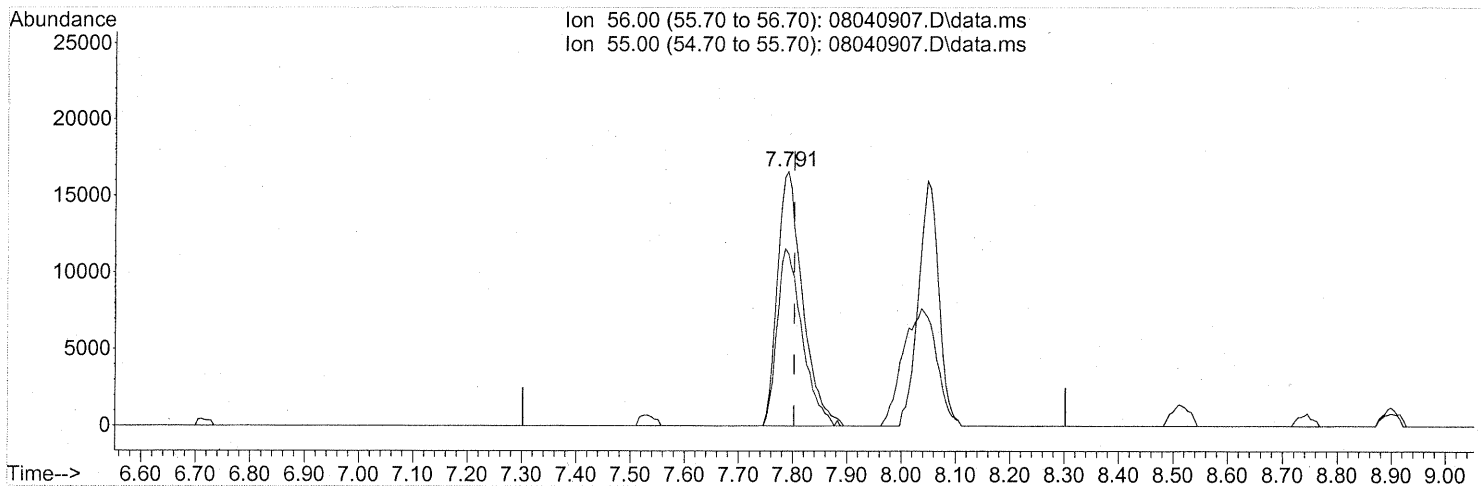
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	34.92
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
em 8/6/09
um 8/10/09

Quantitation Report (Qedit)

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TIC: 08040907.D\data.ms

(12) Acrolein (T)

7.791min (-0.011) 5.02ng

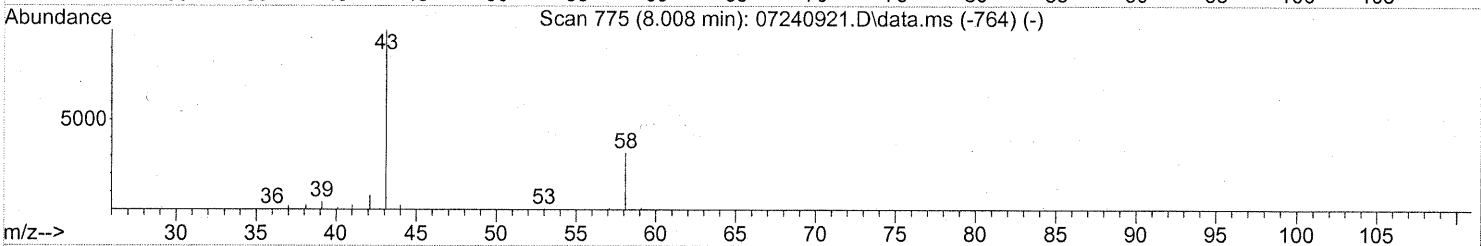
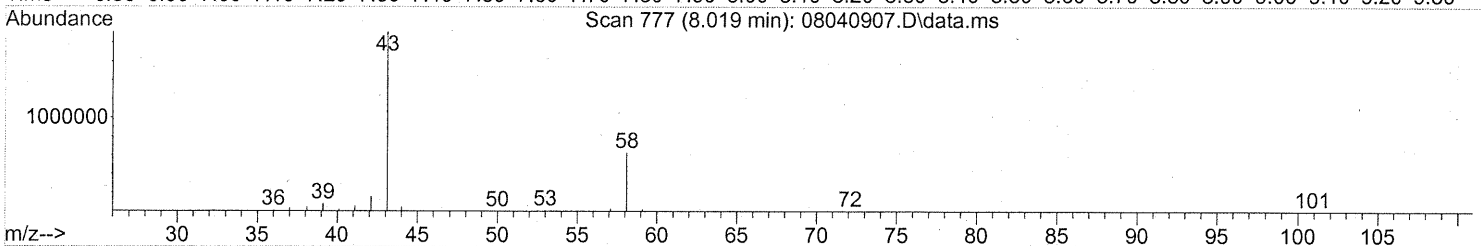
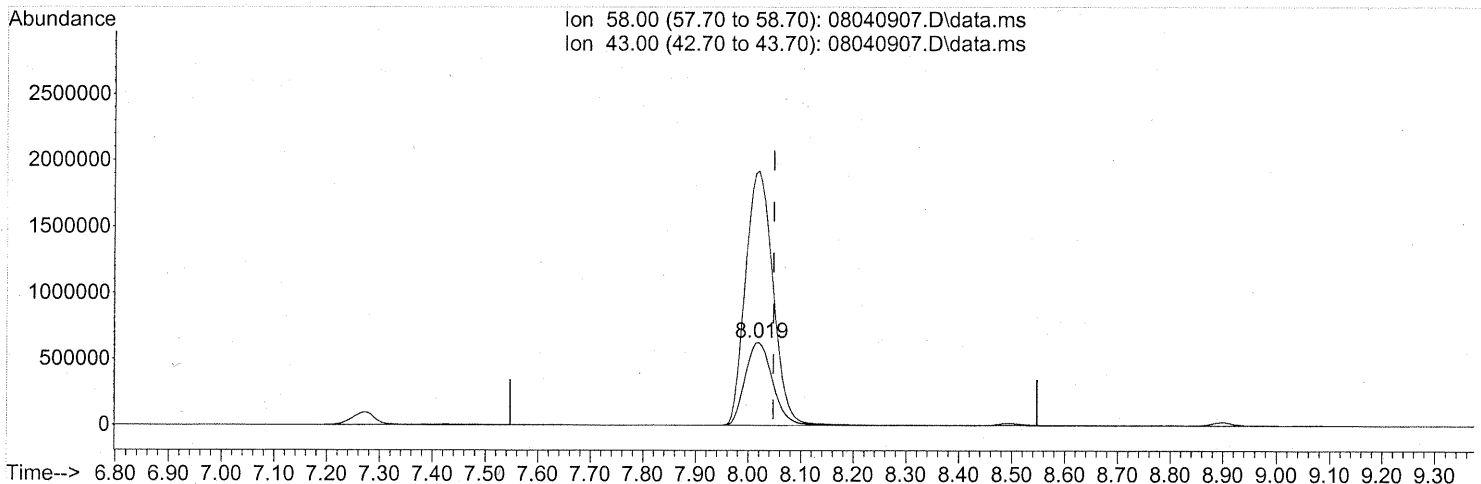
response 53237

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Acq On : 4 Aug 2009 11:01
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

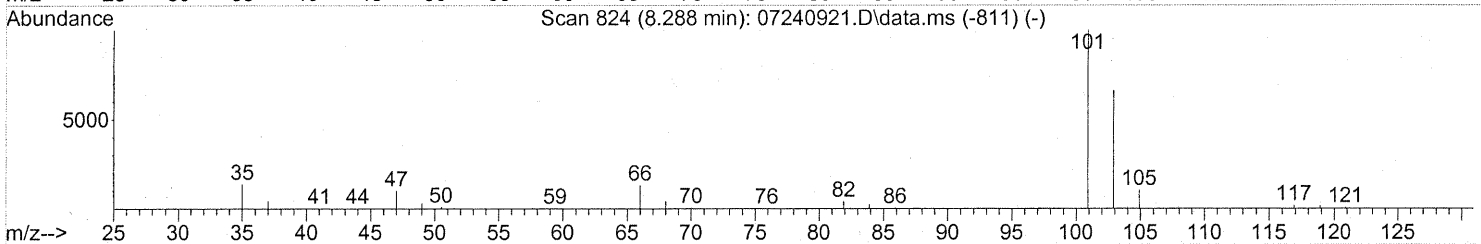
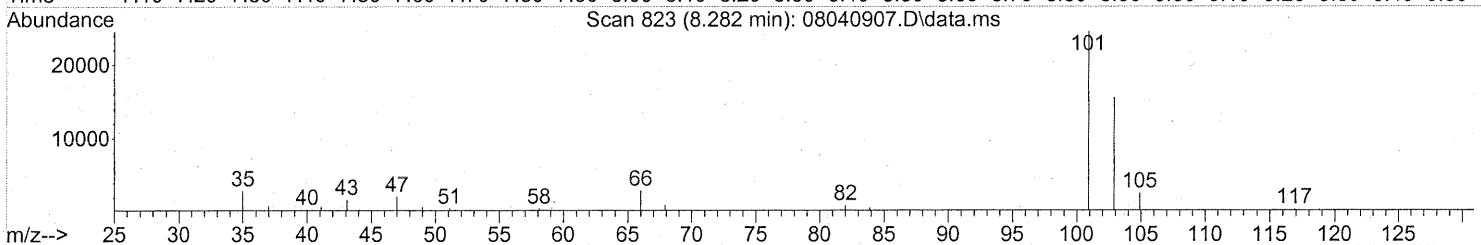
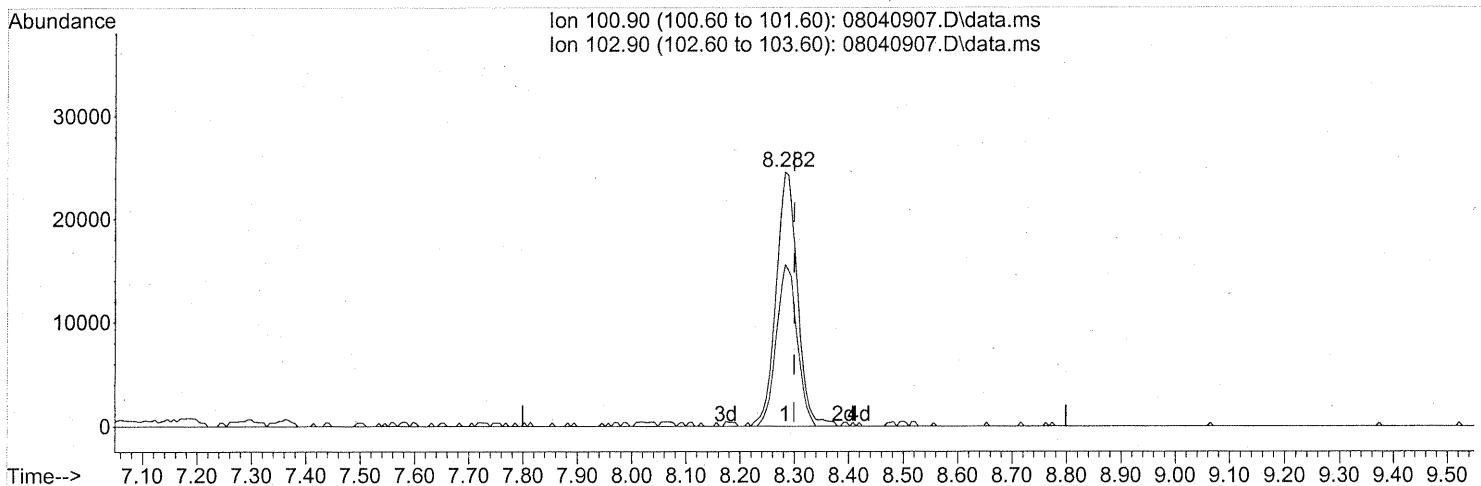
(13) Acetone (T)
 8.019min (-0.029) 136.98ng
 response 2266949

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	308.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
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 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.017) 1.76ng

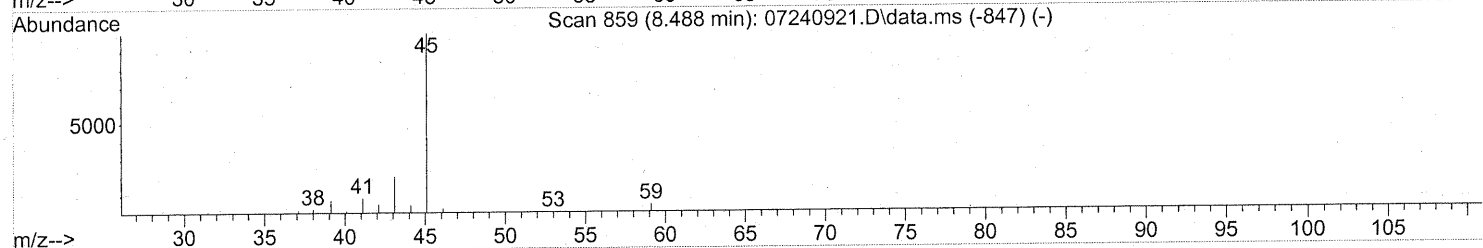
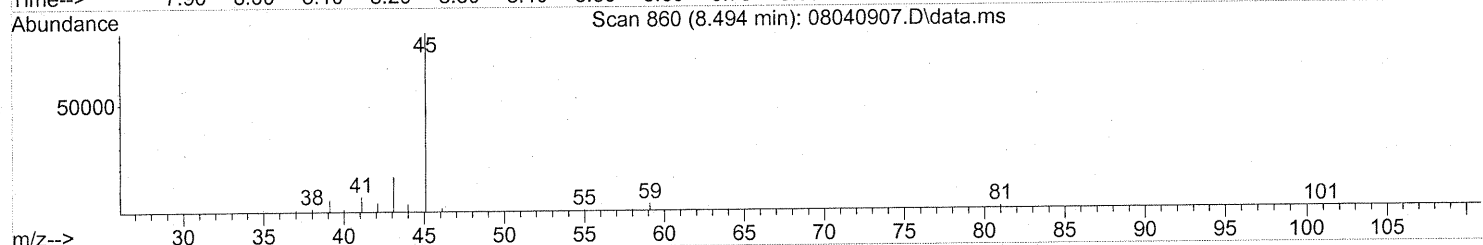
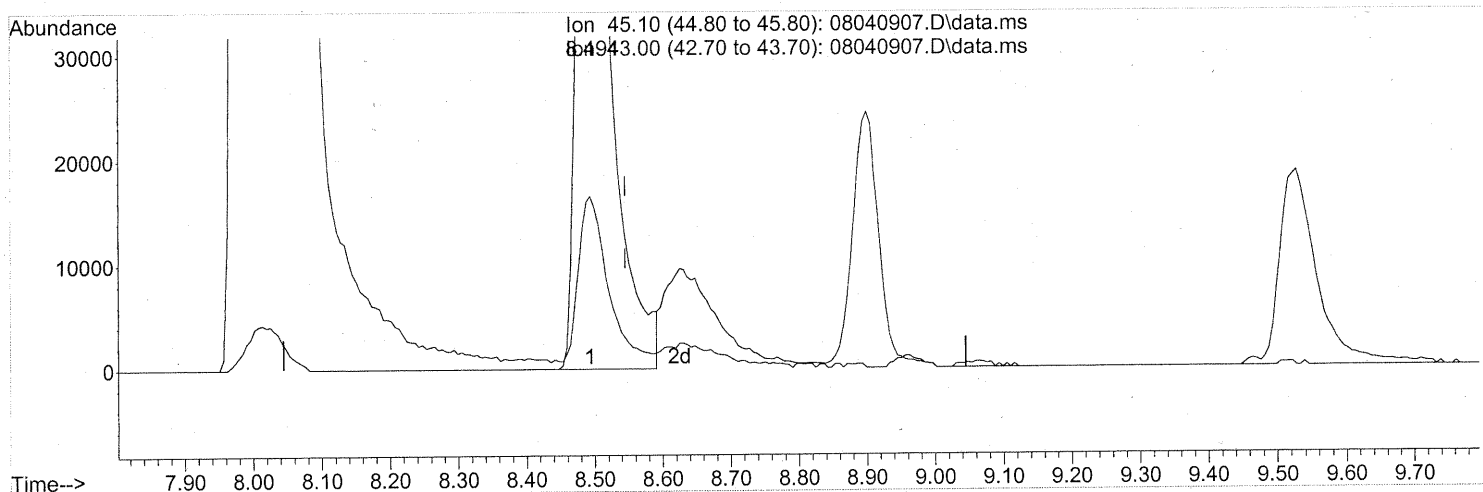
response 67163

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	61.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 11:58:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 5.64ng

response 245713

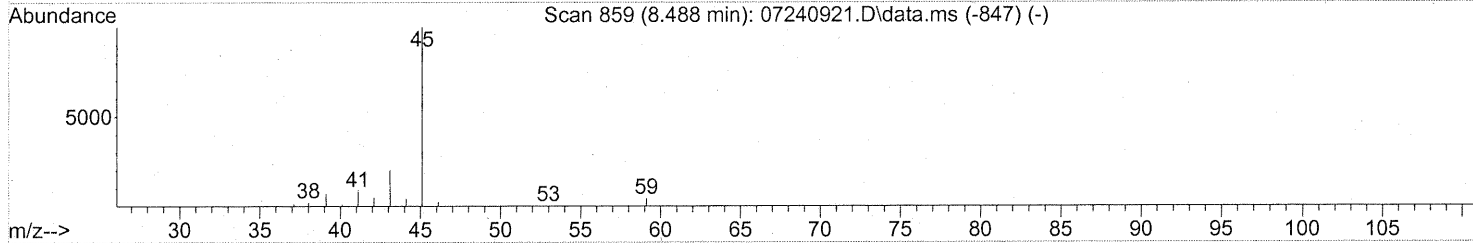
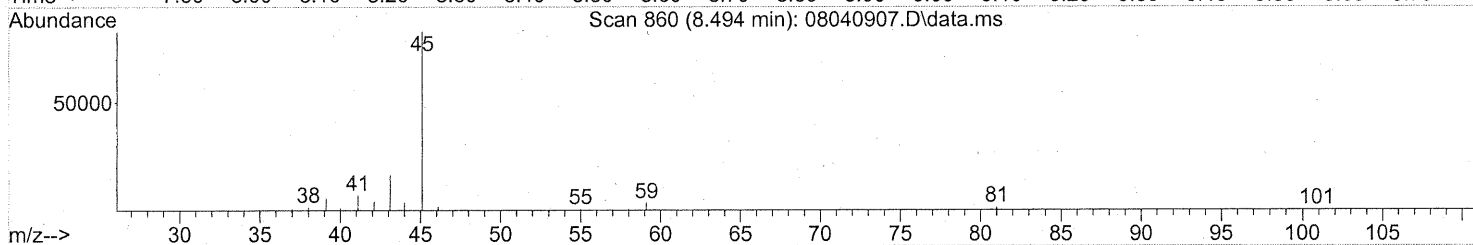
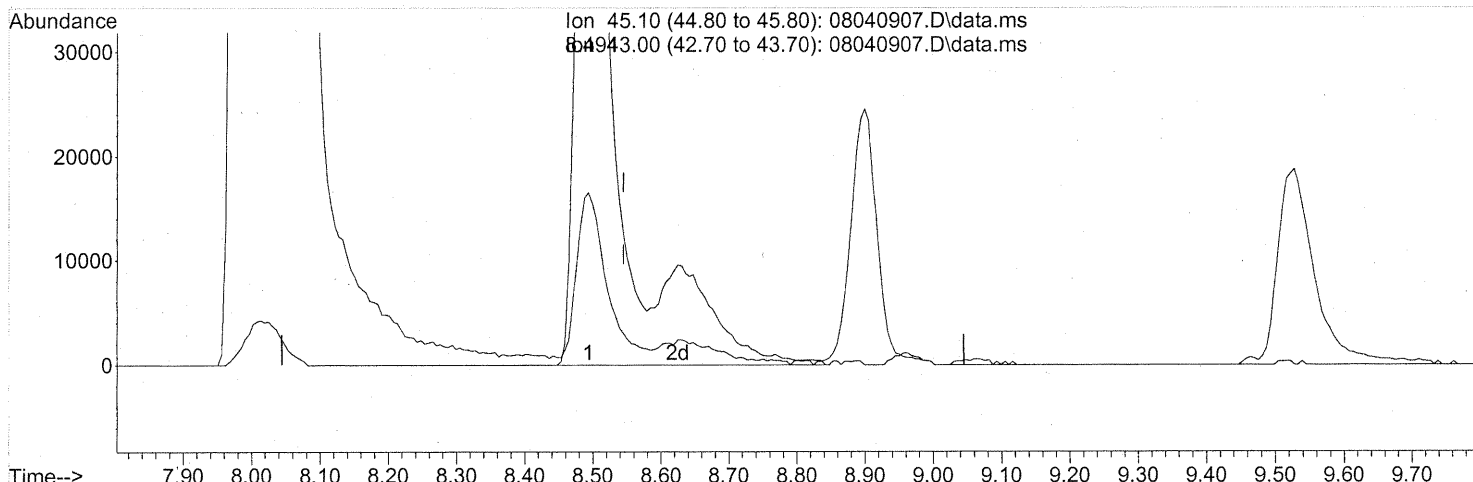
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.48
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 11:58:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

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

8.494min (-0.051) 6.86ng m

response 298651

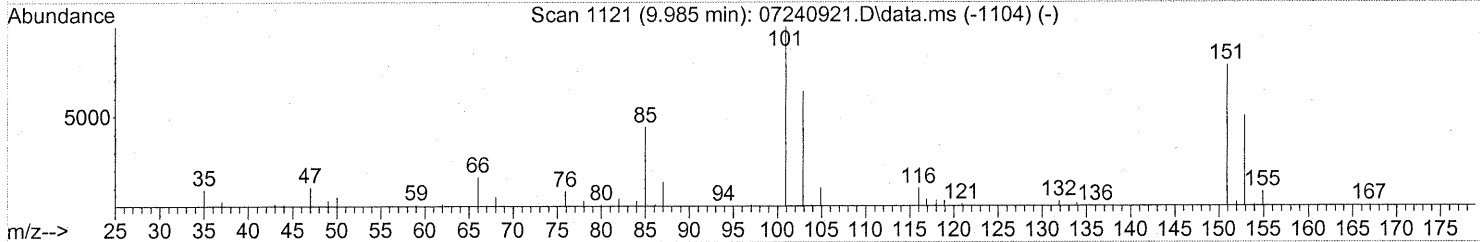
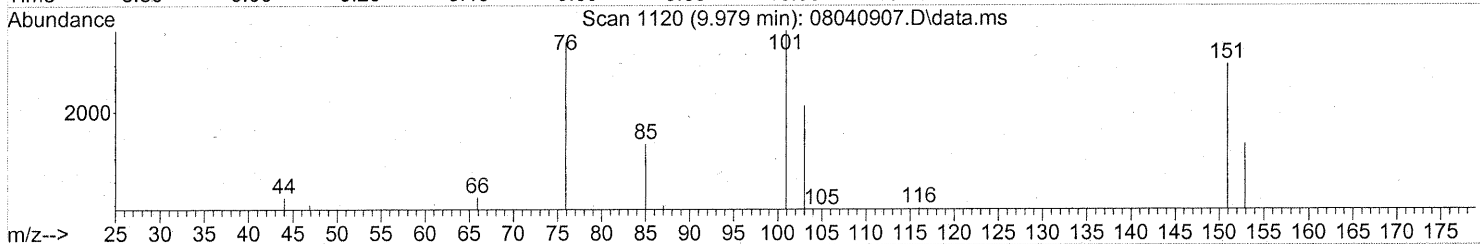
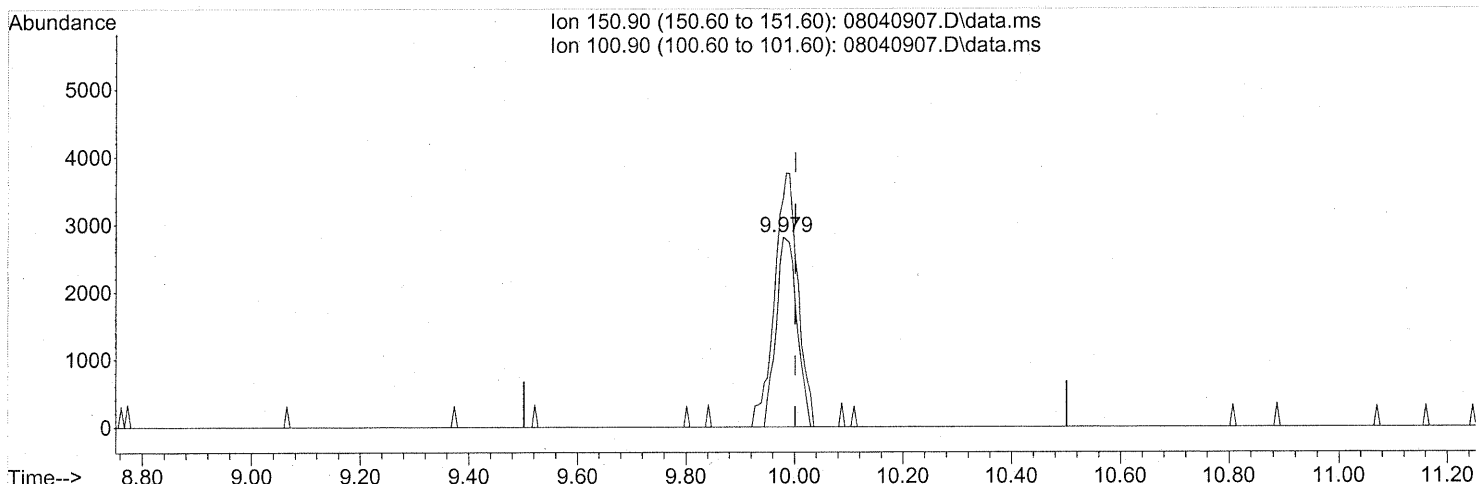
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.02
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
cem 8/6/09
MM 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.979min (-0.023) 0.43ng

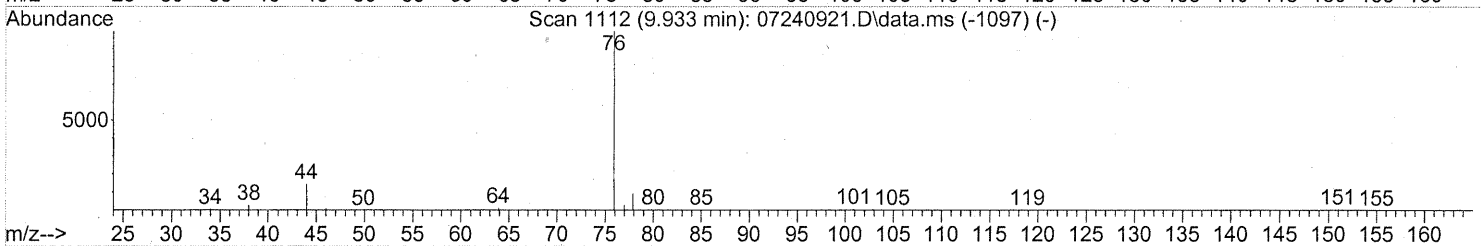
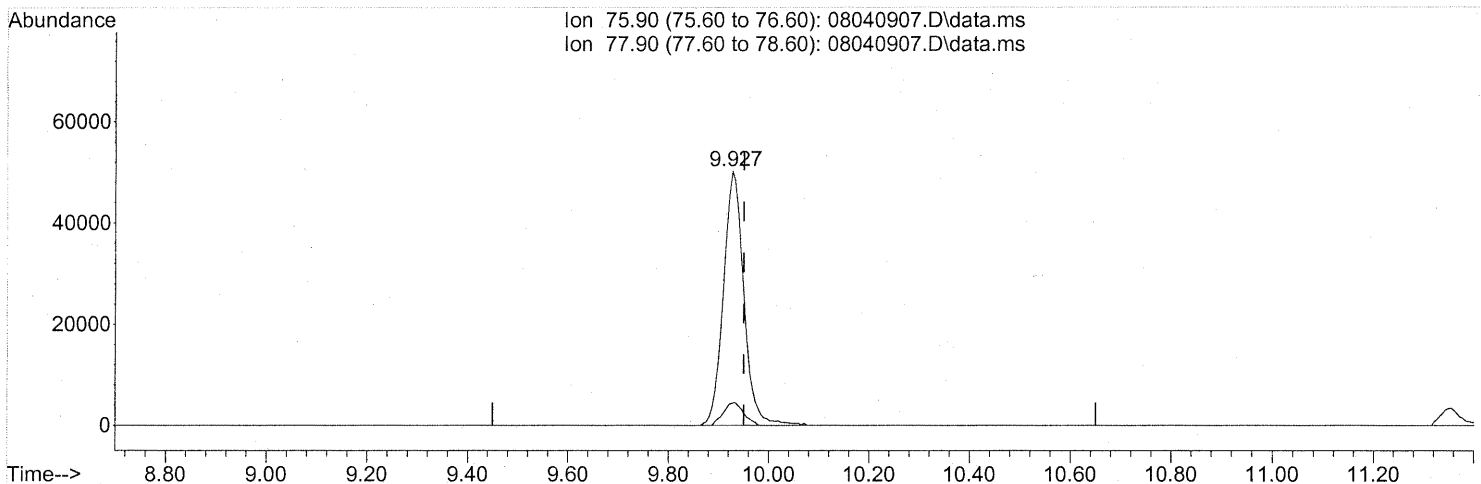
response 7459

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	150.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(22) Carbon Disulfide (T)

9.927min (-0.023) 1.89ng

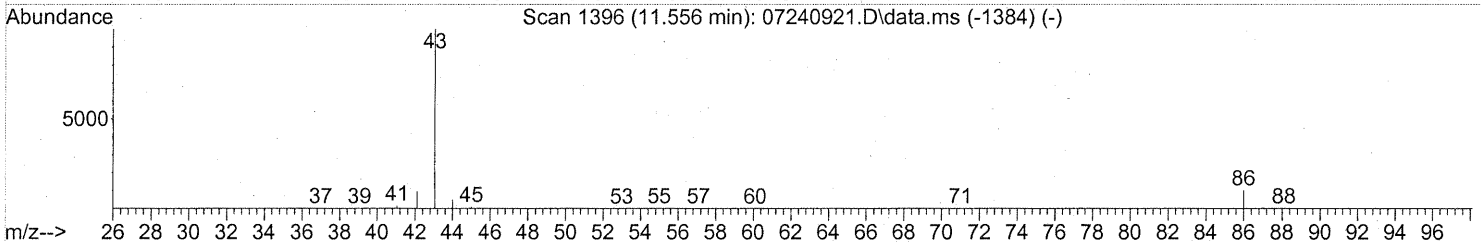
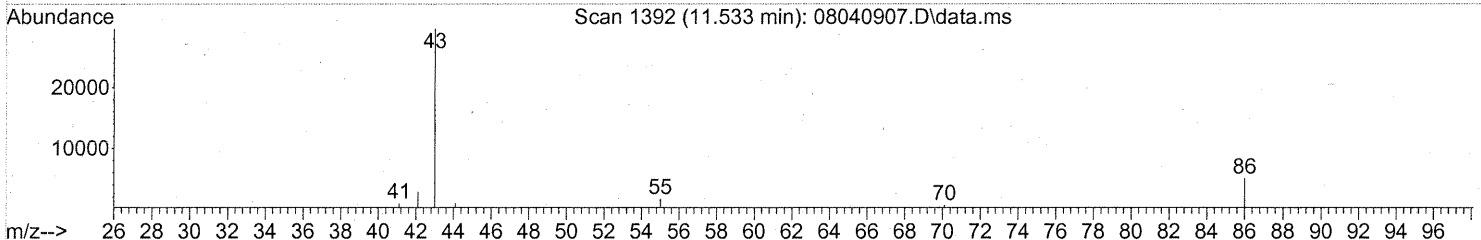
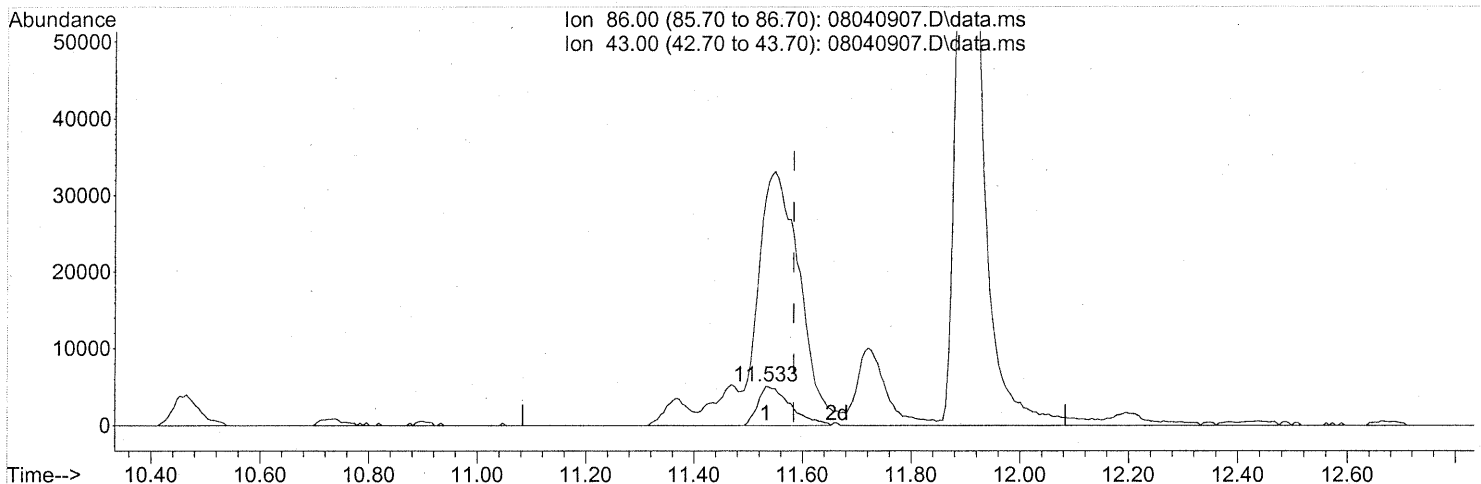
response 141416

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(26) Vinyl Acetate (T)

11.533min (-0.051) 5.32ng

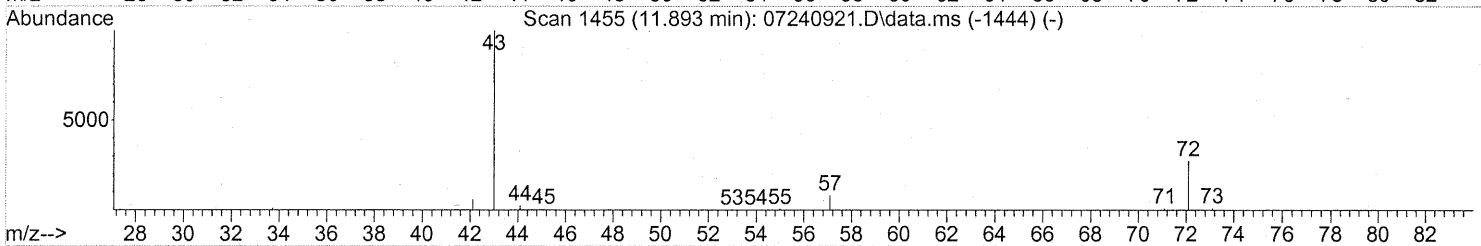
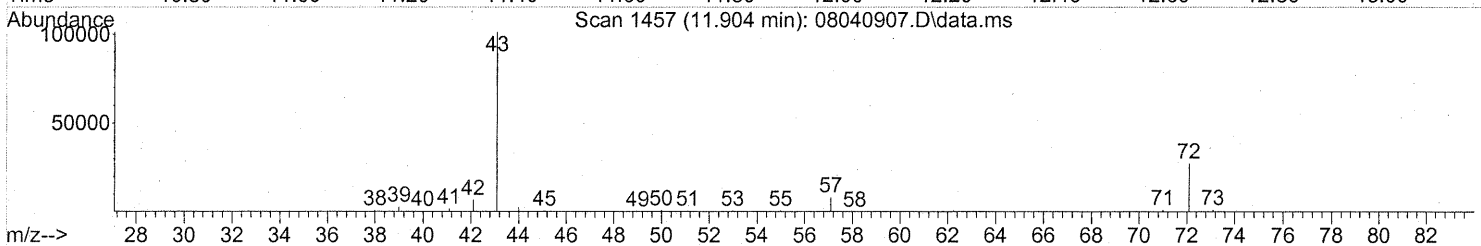
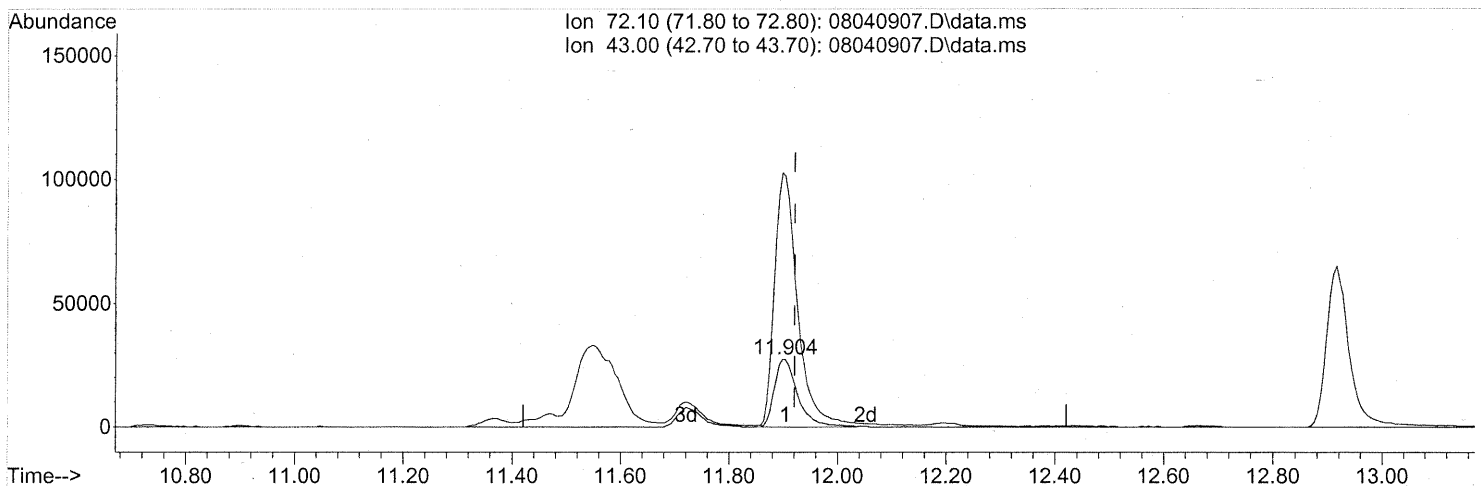
response 20991

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	804.45#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

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

11.904min (-0.017) 6.45ng

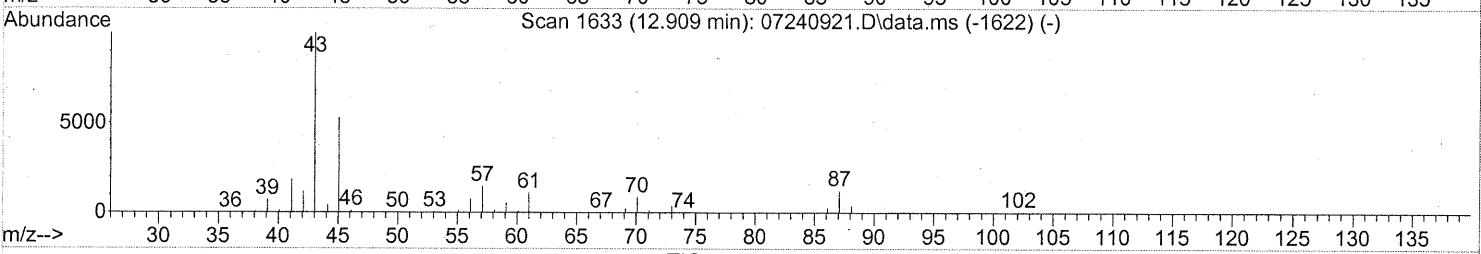
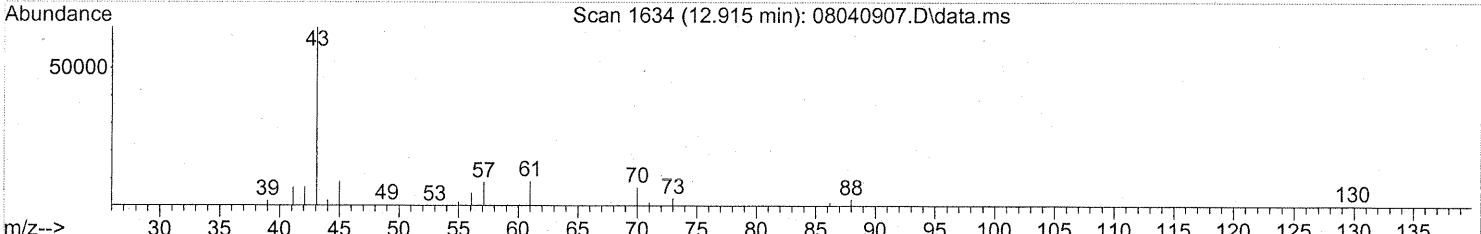
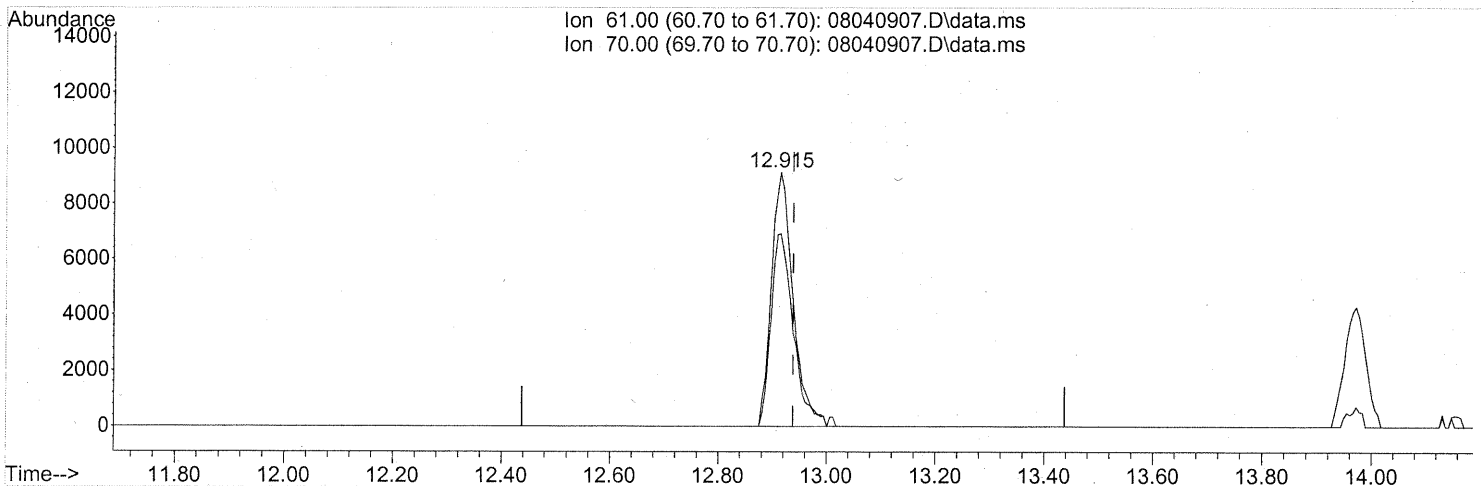
response 81432

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	370.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(30) Ethyl Acetate (T)

12.915min (-0.023) 3.05ng

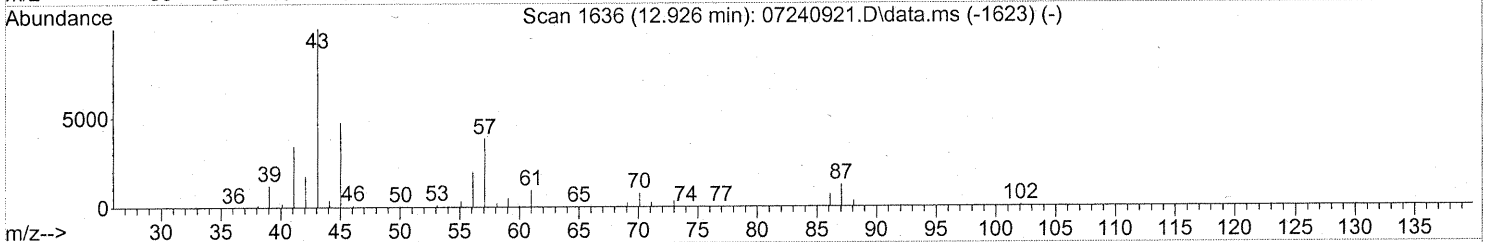
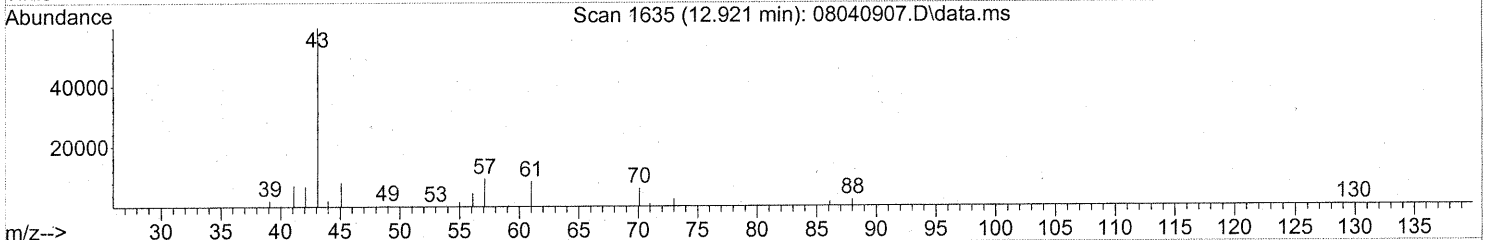
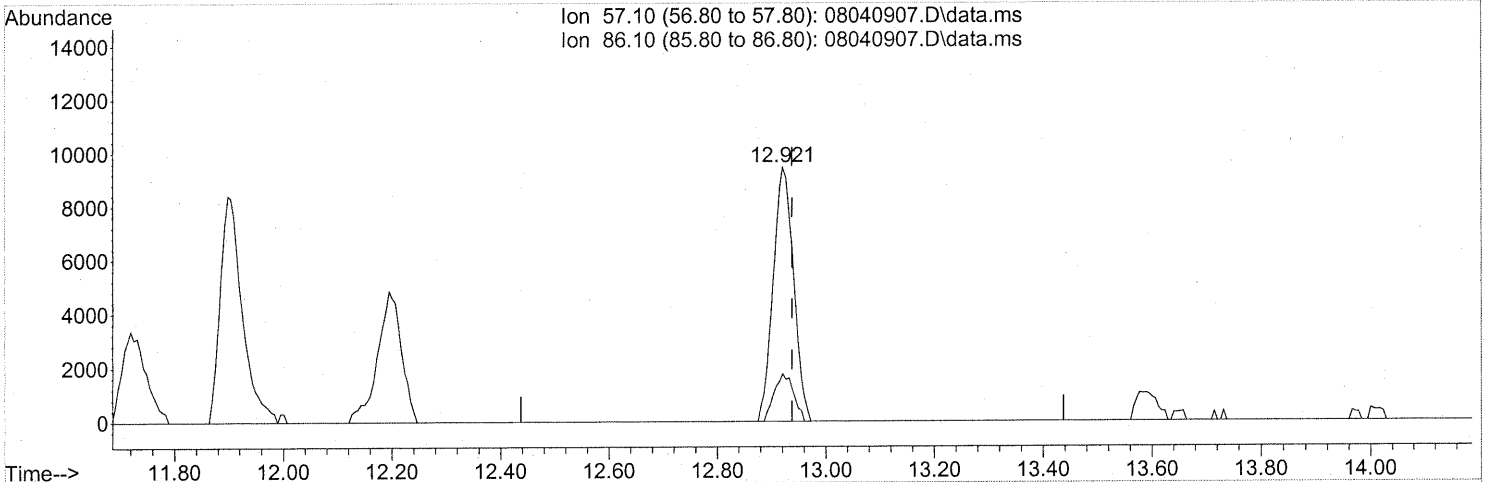
response 25251

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	77.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

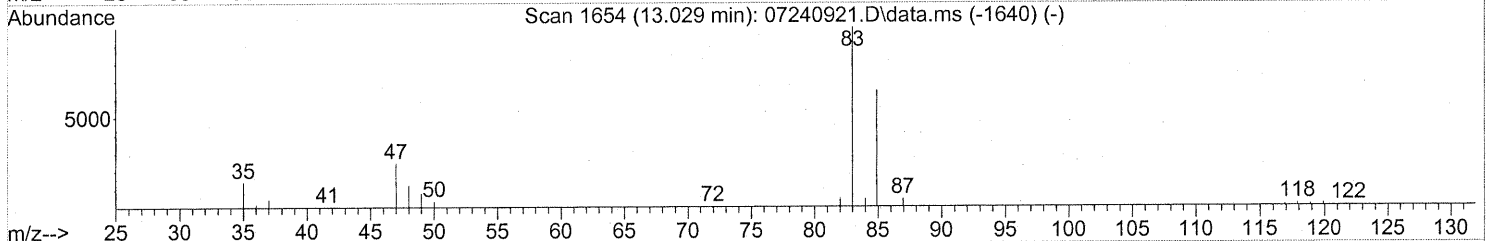
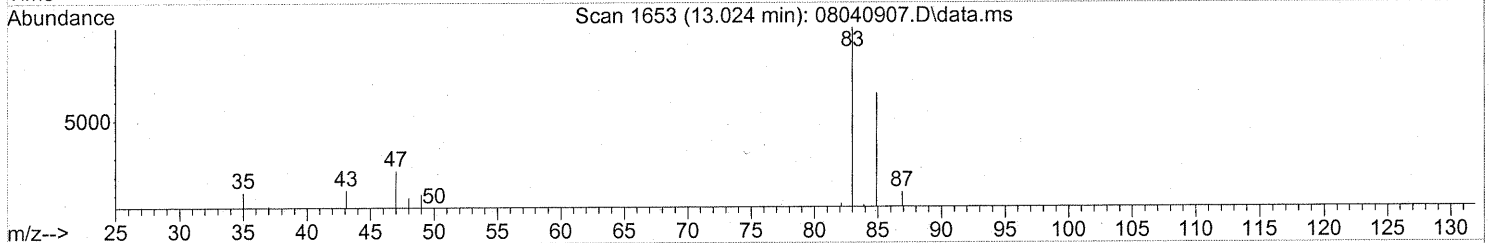
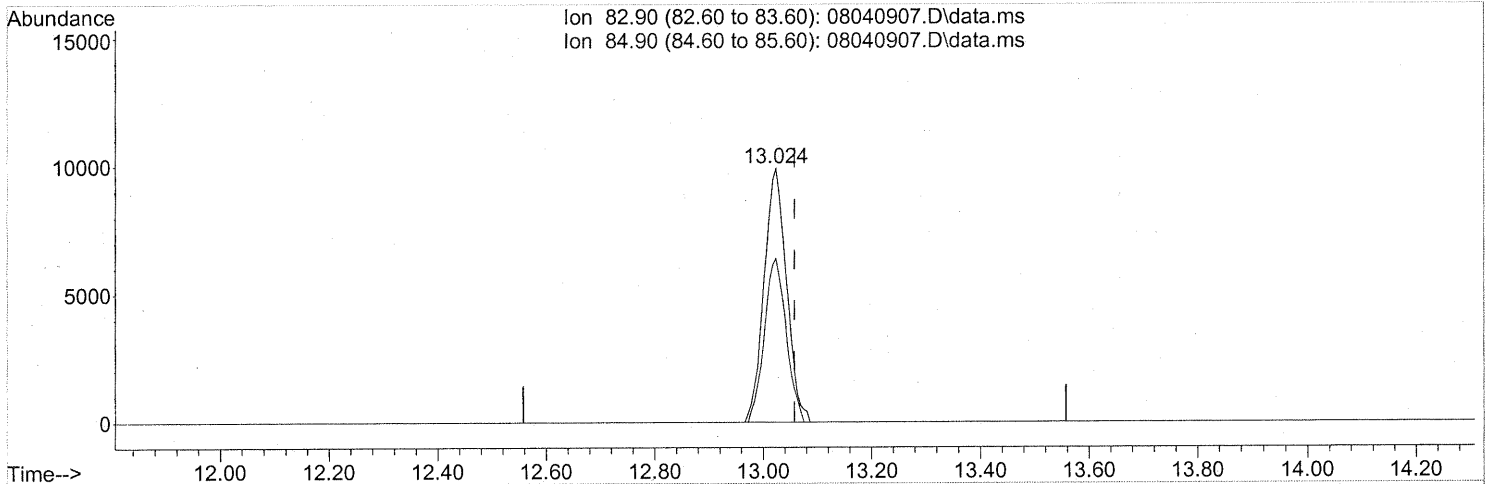
(31) n-Hexane (T)
 12.921min (-0.017) 0.64ng
 response 24383

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	17.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

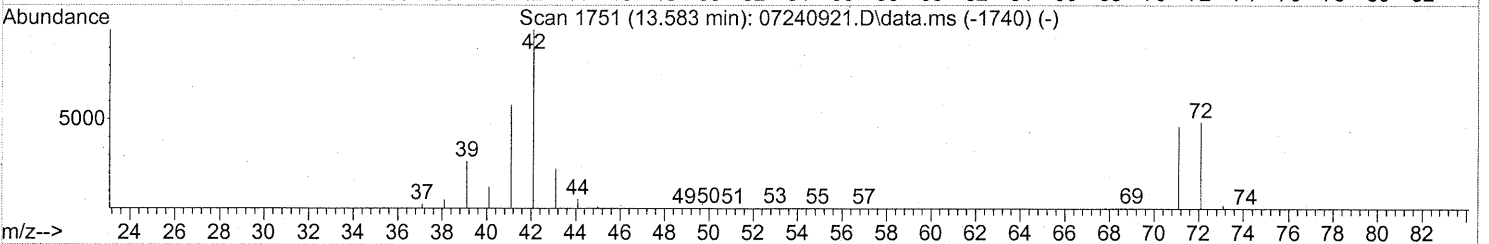
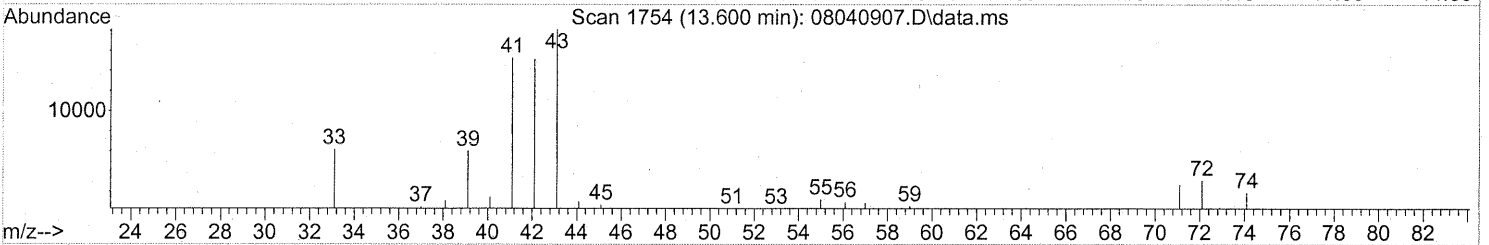
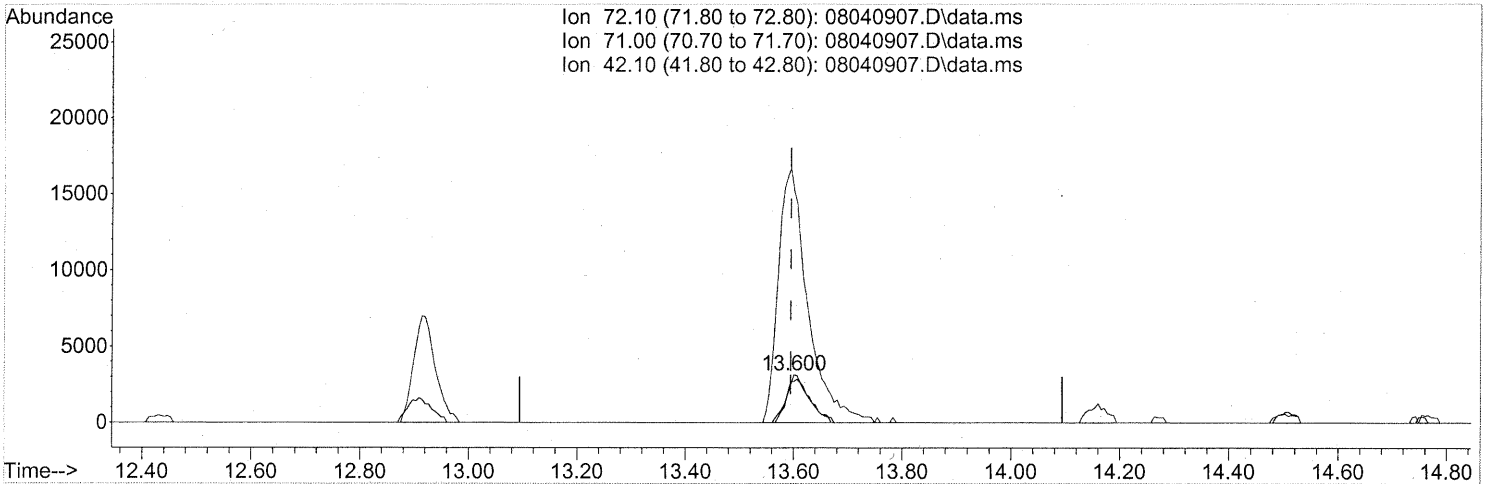
(32) Chloroform (T)
 13.024min (-0.034) 0.82ng
 response 28580

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	62.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.600min (+0.006) 0.76ng

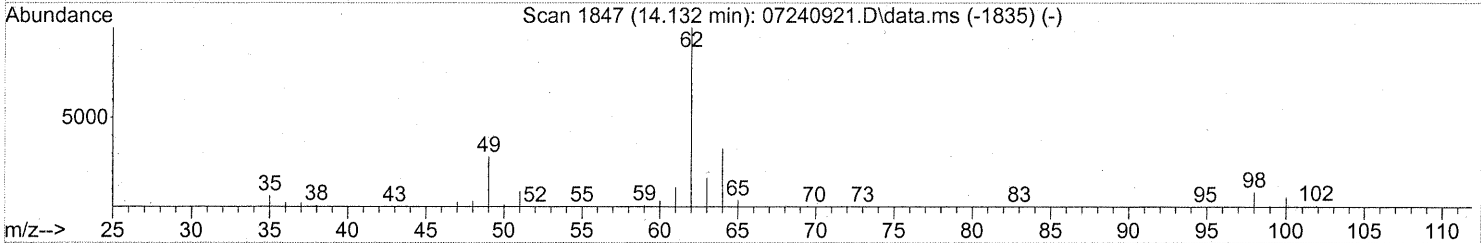
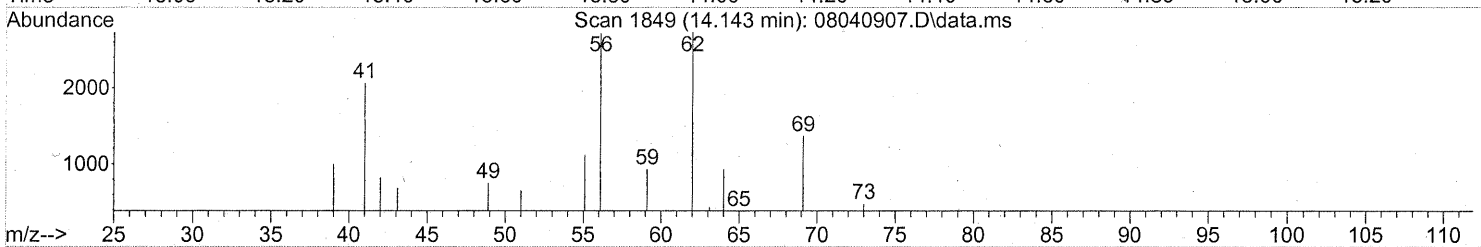
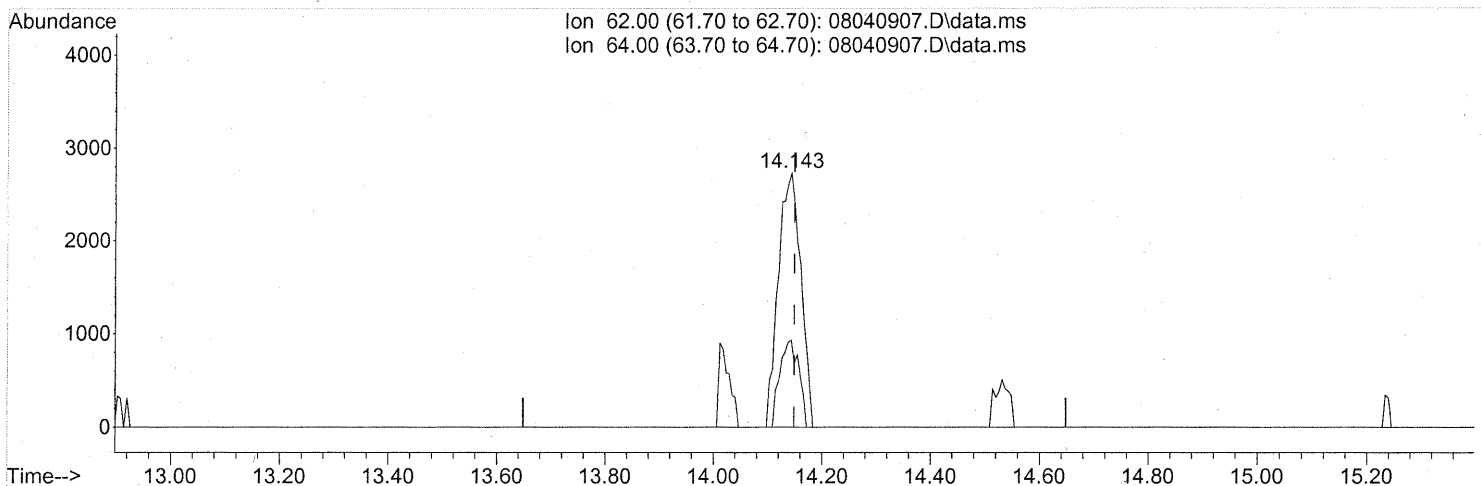
response 9028

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	95.35
42.10	206.50	697.60#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(36) 1,2-Dichloroethane (T)

14.143min (-0.006) 0.28ng

response 7865

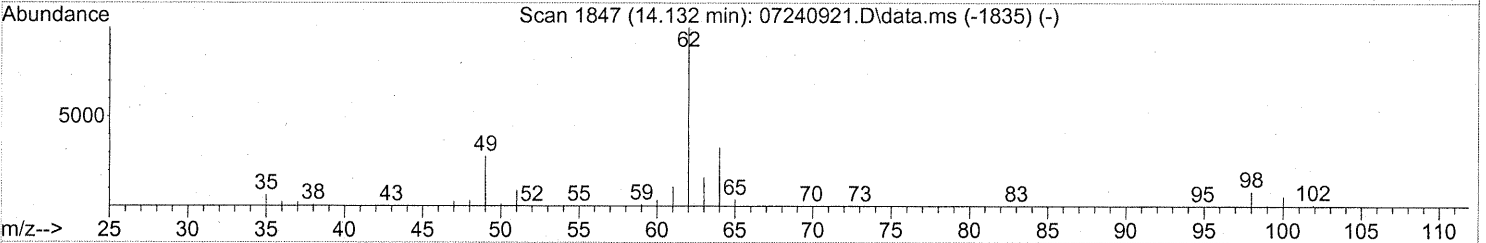
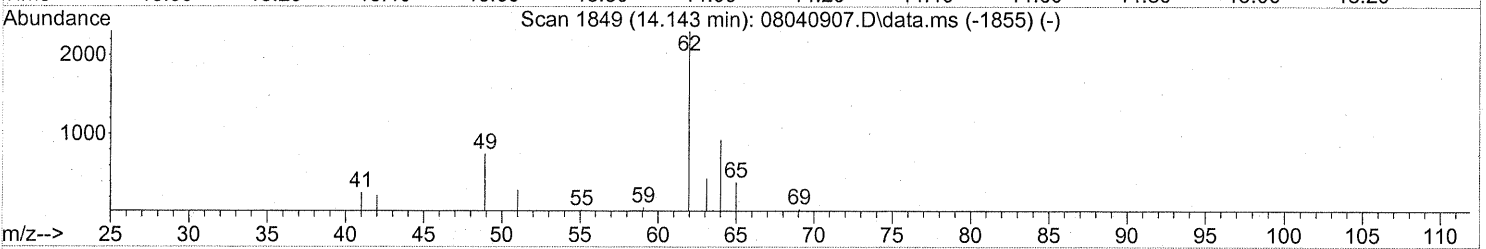
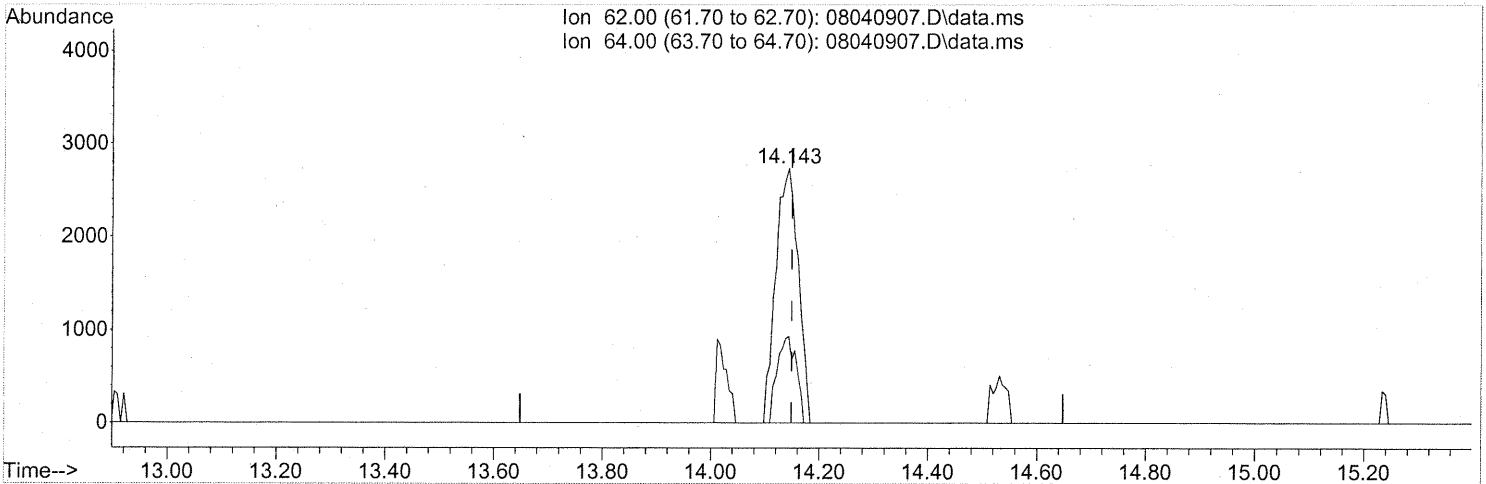
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	28.62
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(36) 1,2-Dichloroethane (T)

14.143min (-0.006) 0.28ng

response 7865

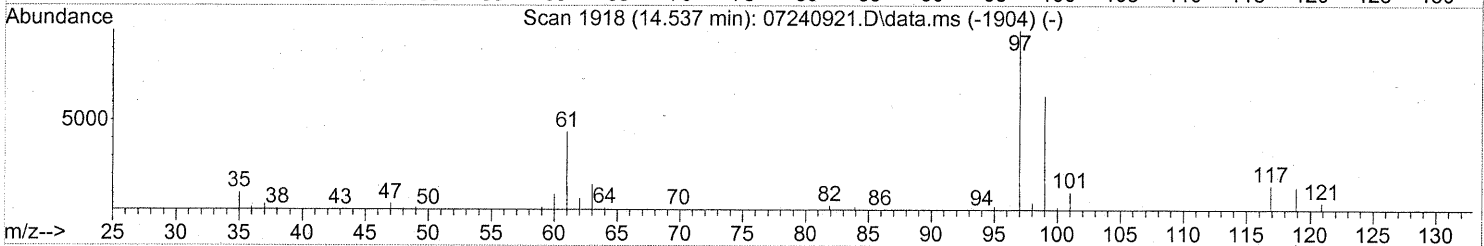
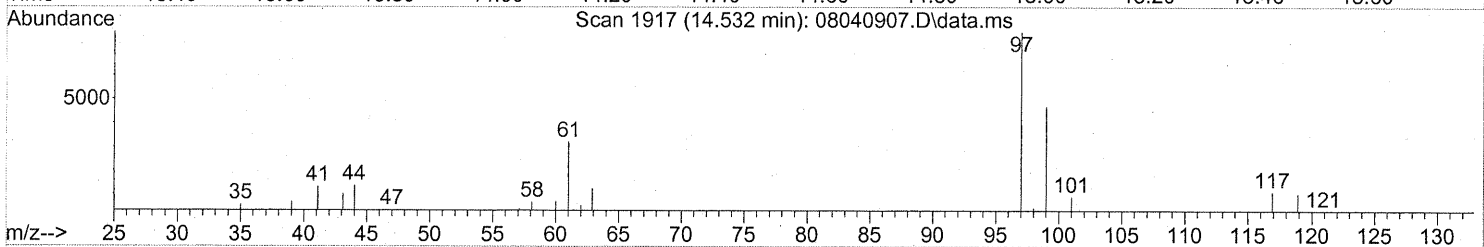
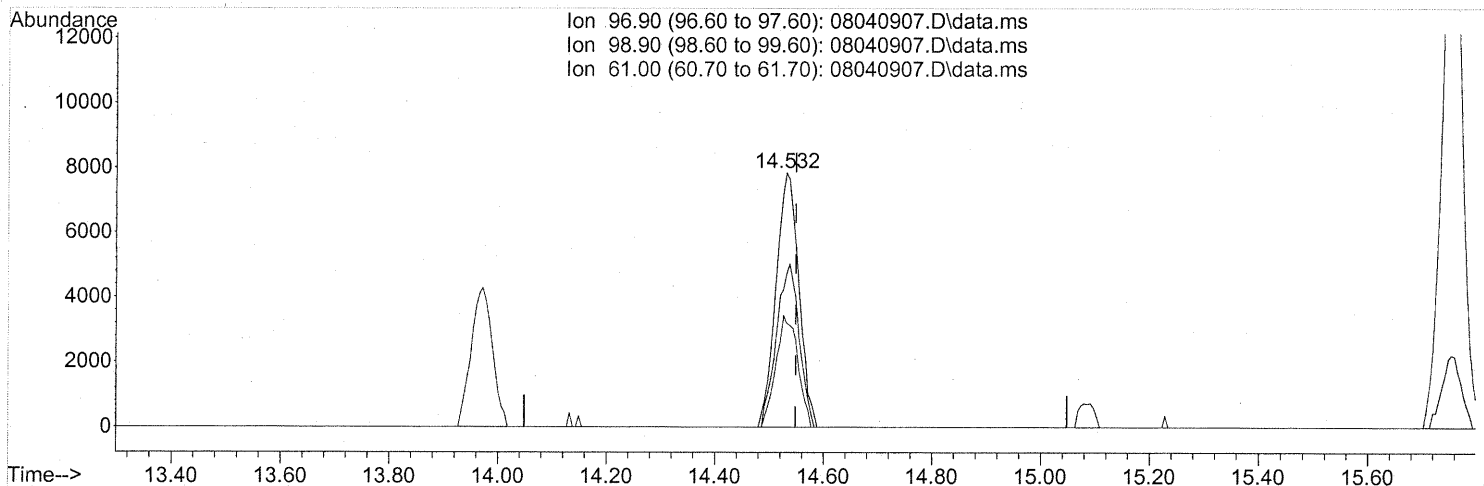
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	28.62
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
com 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.532min (-0.017) 0.72ng

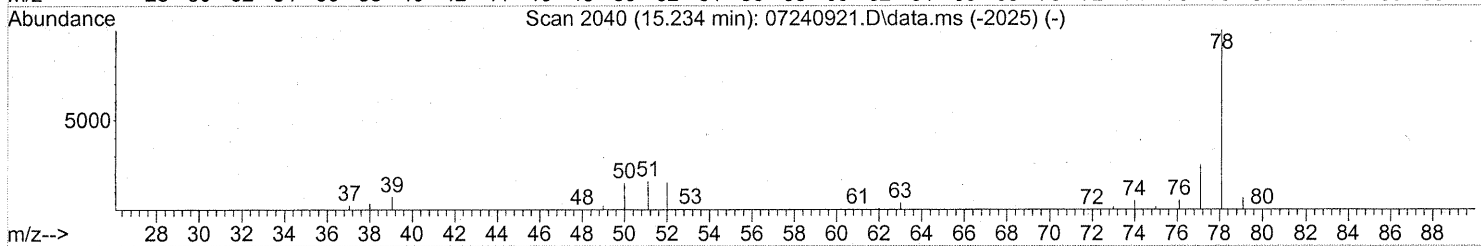
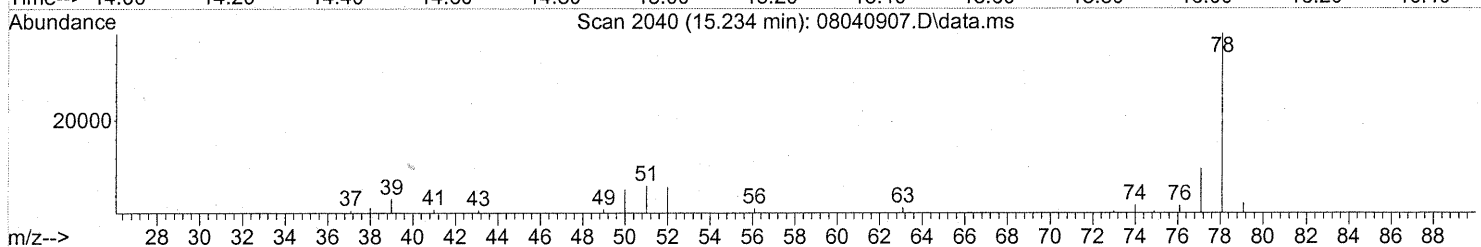
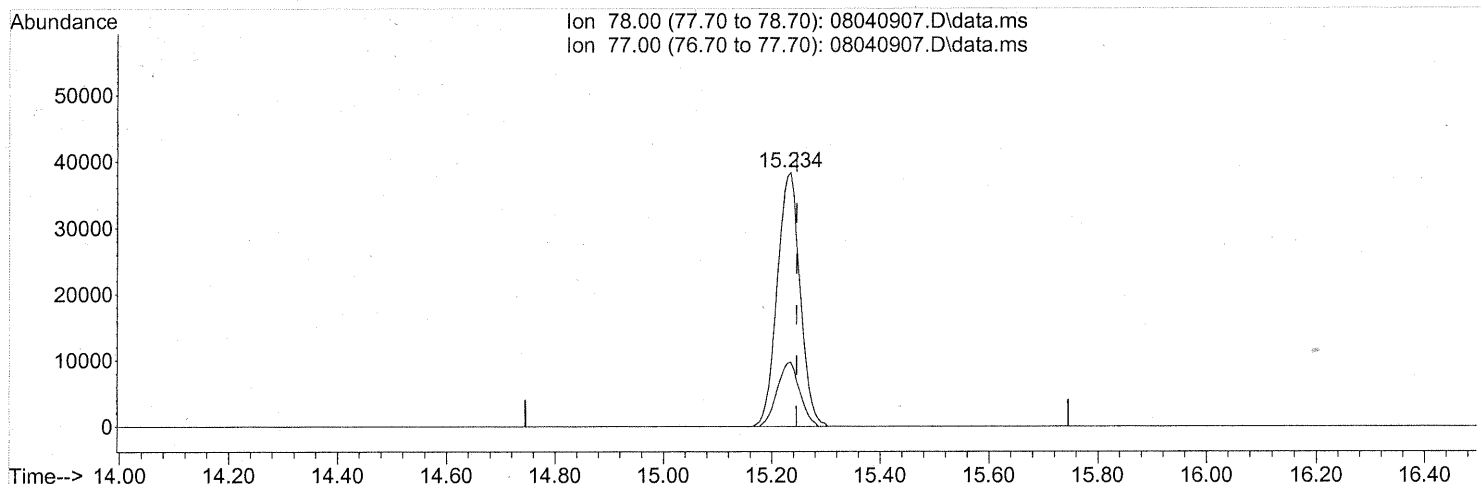
response 22781

Ion	Exp%	Act%
96.90	100	100
98.90	63.60	63.43
61.00	43.50	42.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(41) Benzene (T)

15.234min (-0.011) 1.21ng

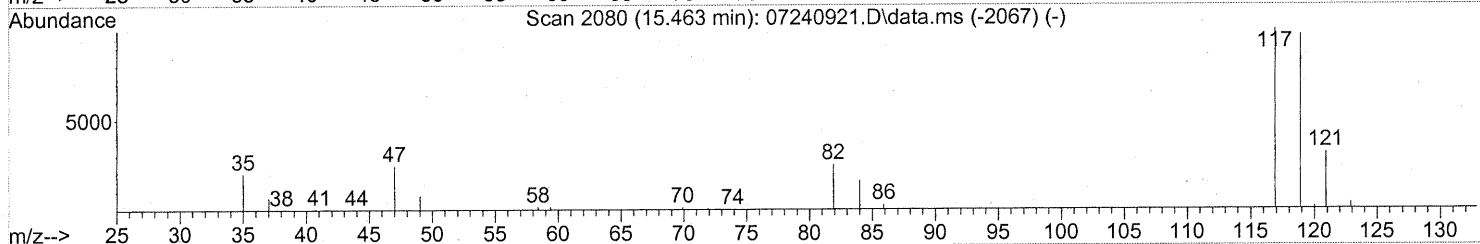
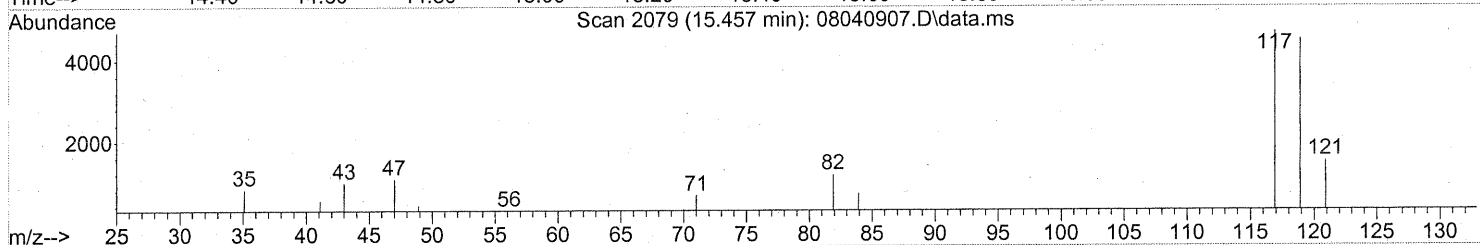
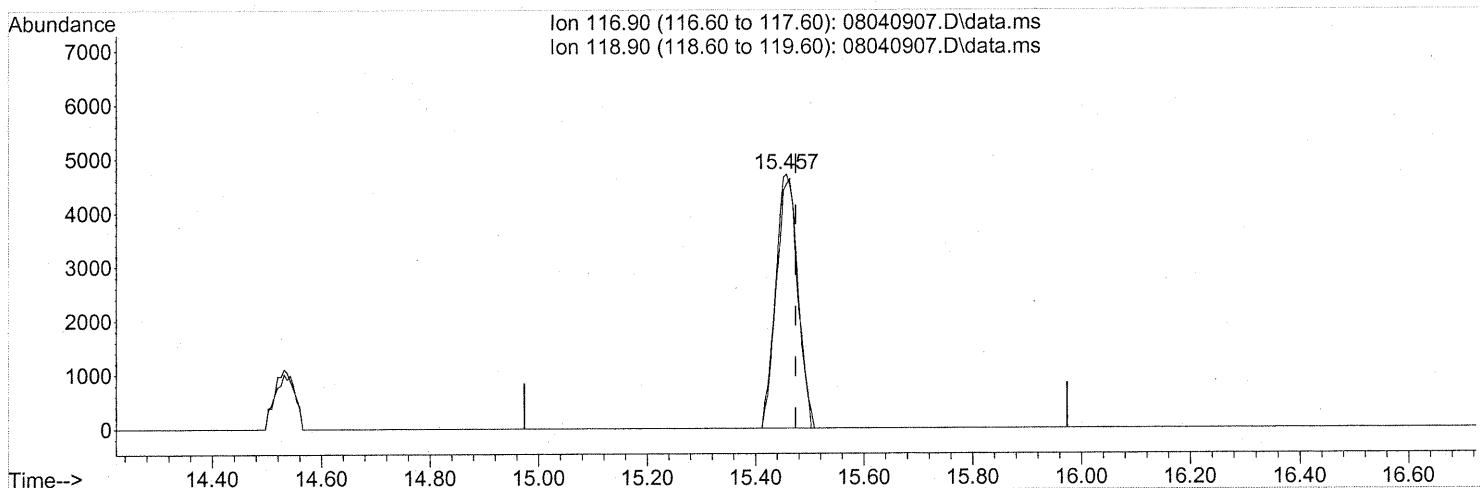
response 111601

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.49ng

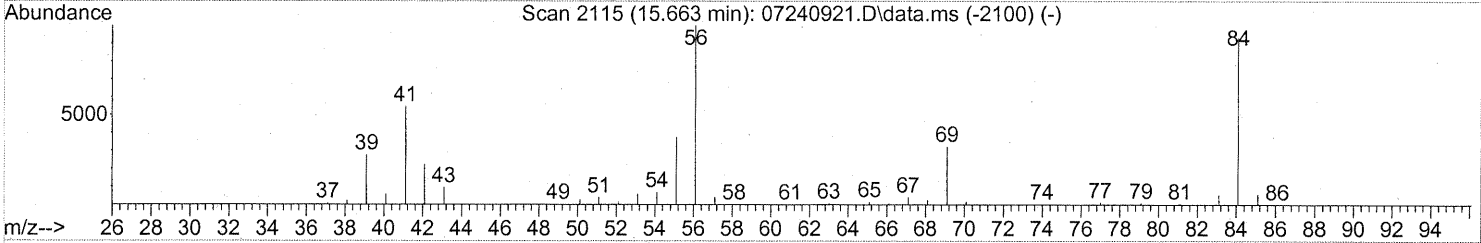
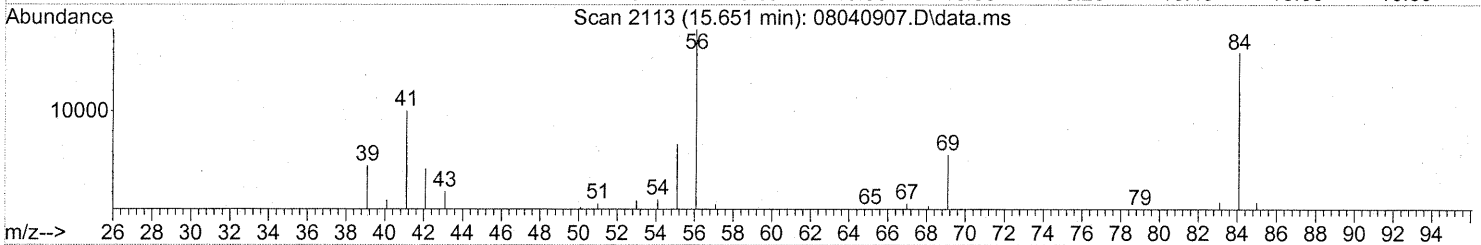
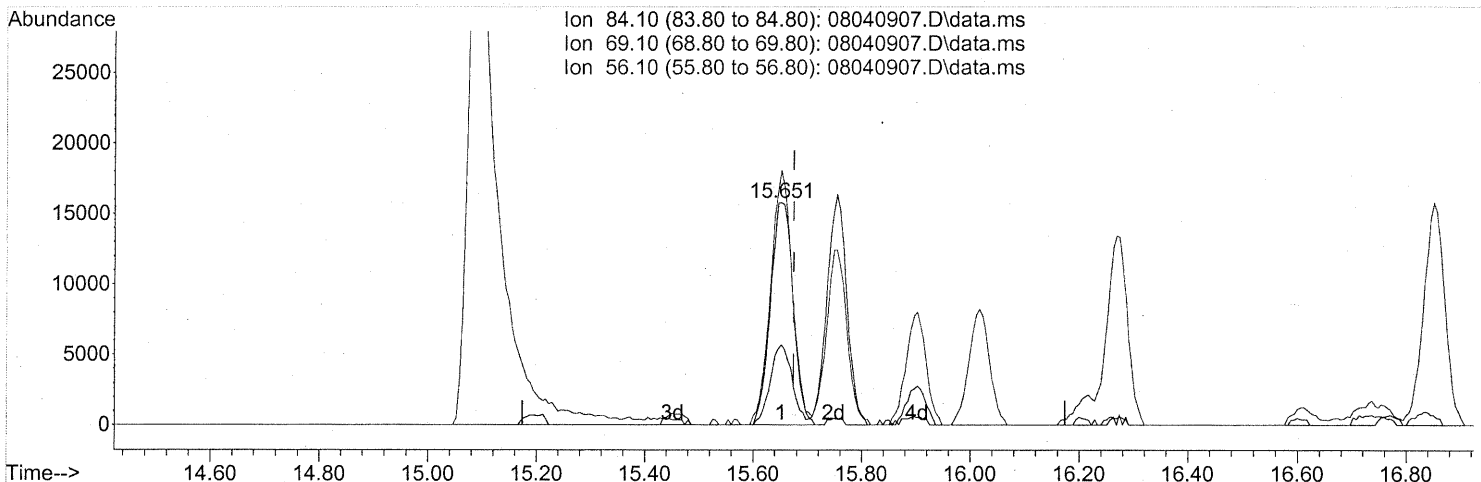
response 13386

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	94.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(43) Cyclohexane (T)

15.651min (-0.023) 1.31ng

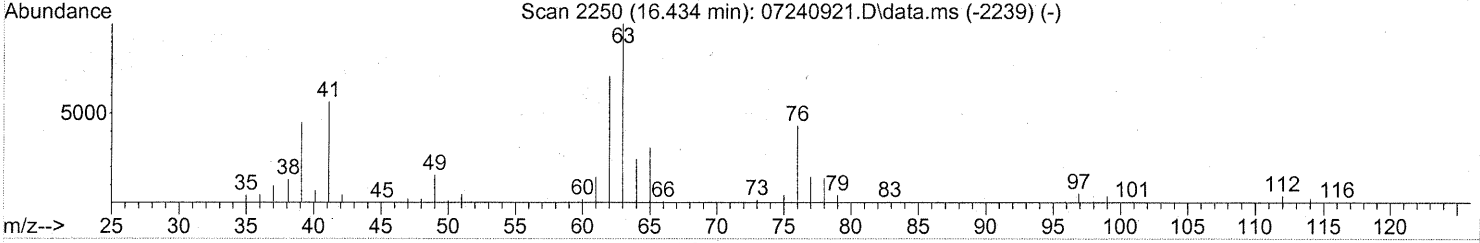
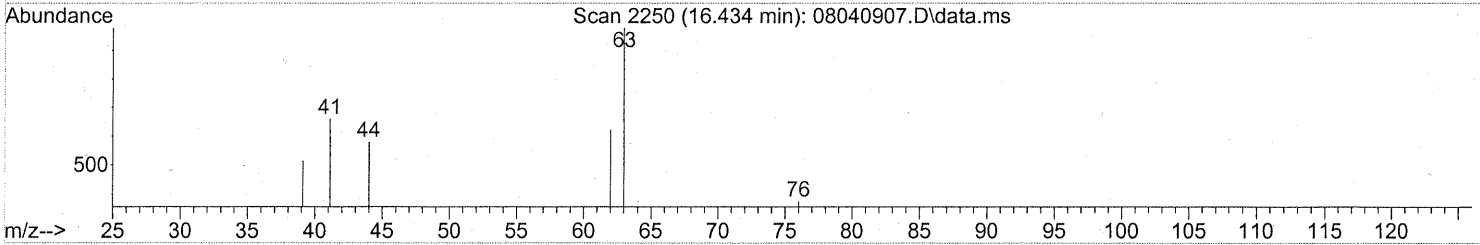
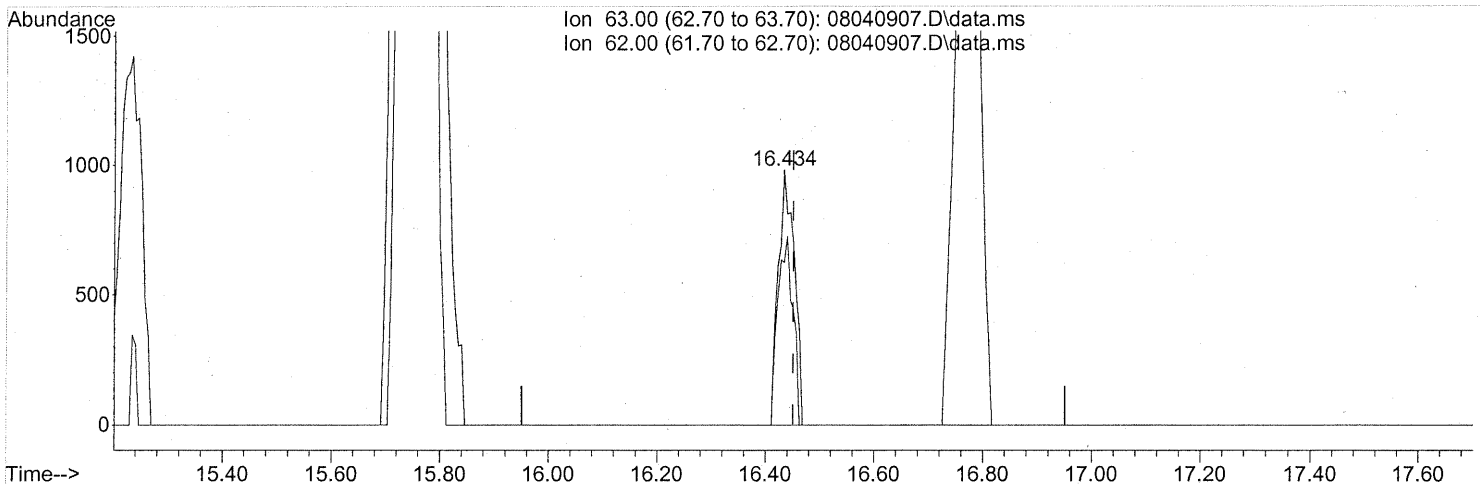
response 45411

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	35.15
56.10	107.30	110.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(45) 1,2-Dichloropropane (T)

16.434min (-0.017) 0.10ng

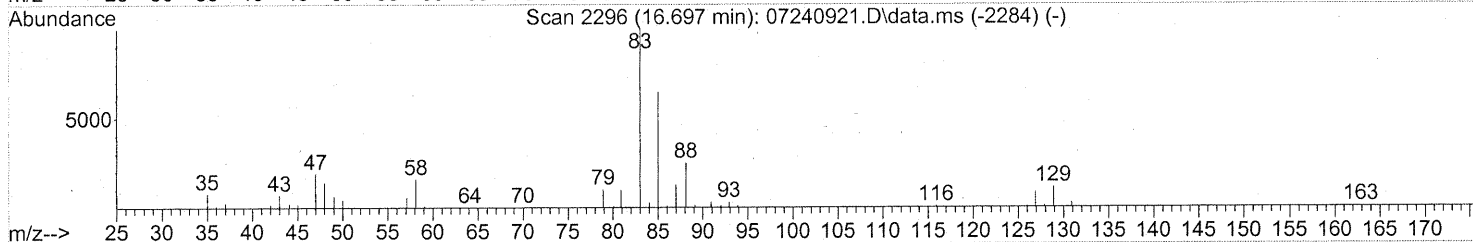
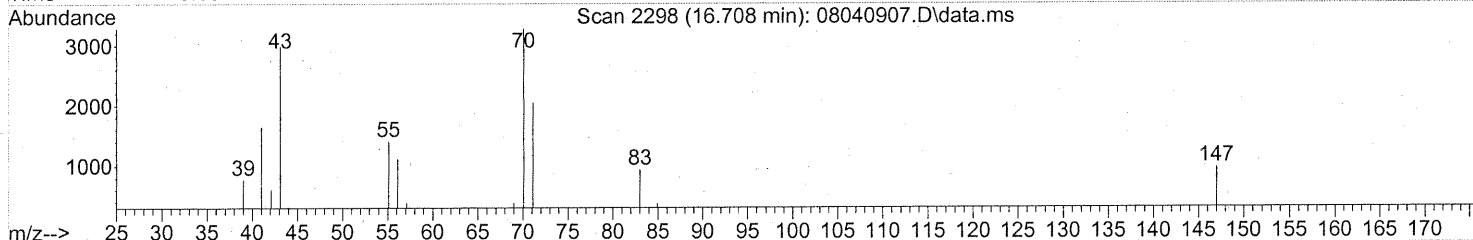
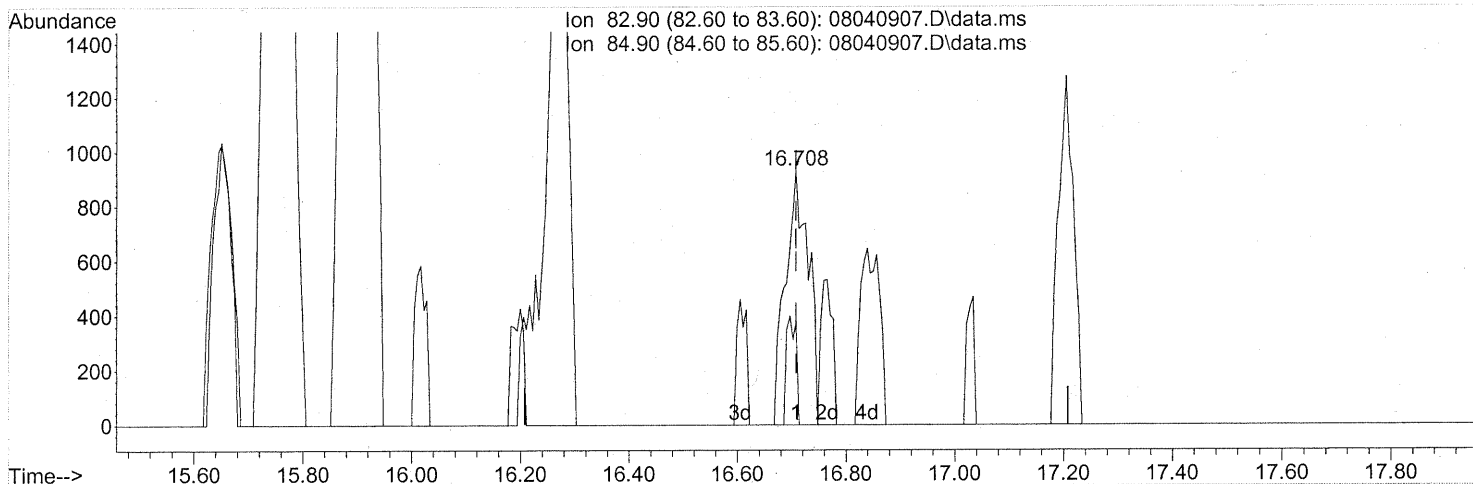
response 2008

Ion	Exp%	Act%
63.00	100	100
62.00	71.00	69.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 11:58:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.708min (-0.000) 0.10ng

response 2720

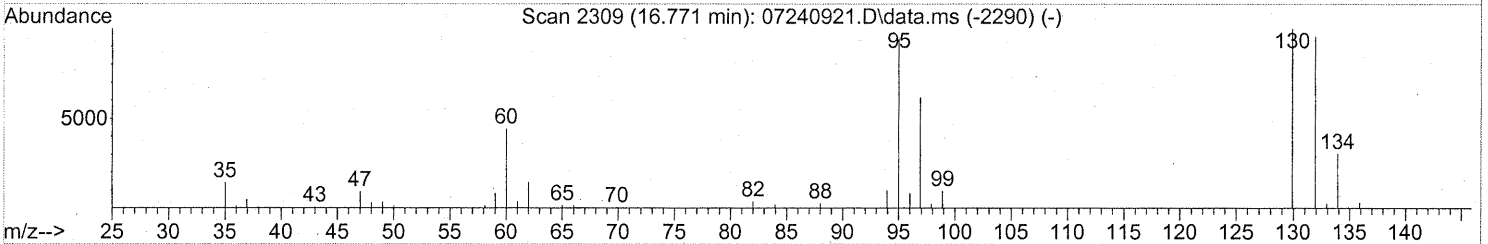
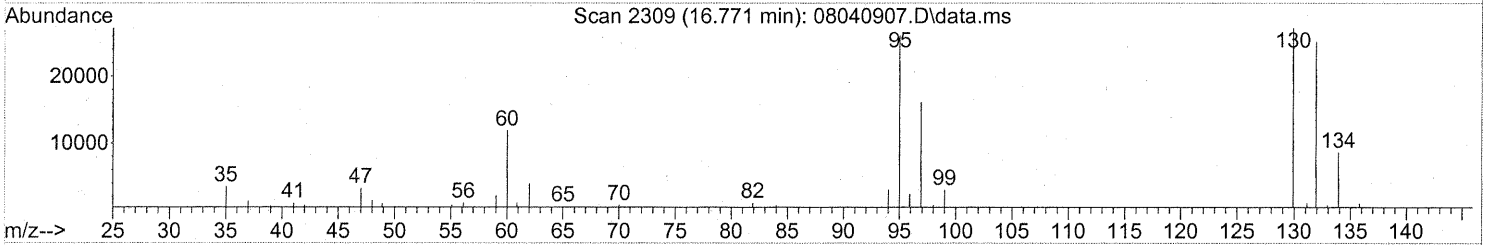
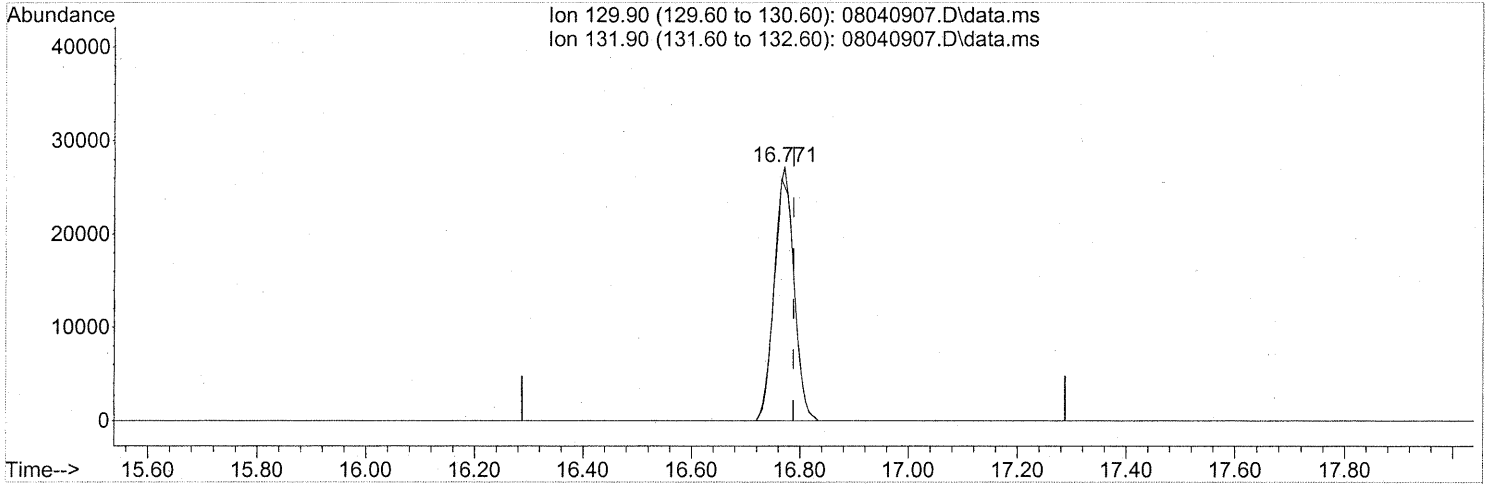
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	18.05#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/6/09
m 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040907.D
Acq On : 4 Aug 2009 11:01
Operator : EM
Sample : P0902624-004 (1000ml)
Misc : Environmental H & E 99444
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040907.D\data.ms

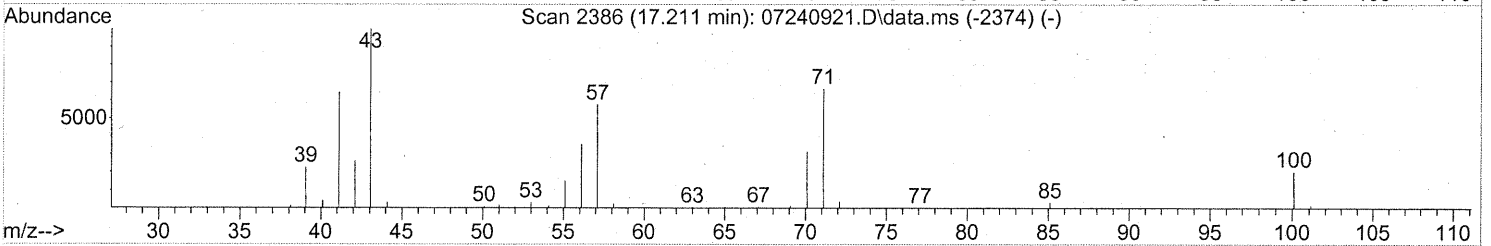
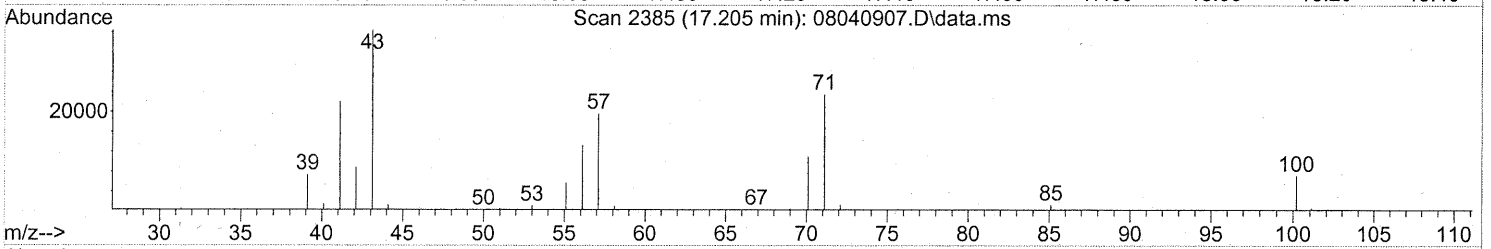
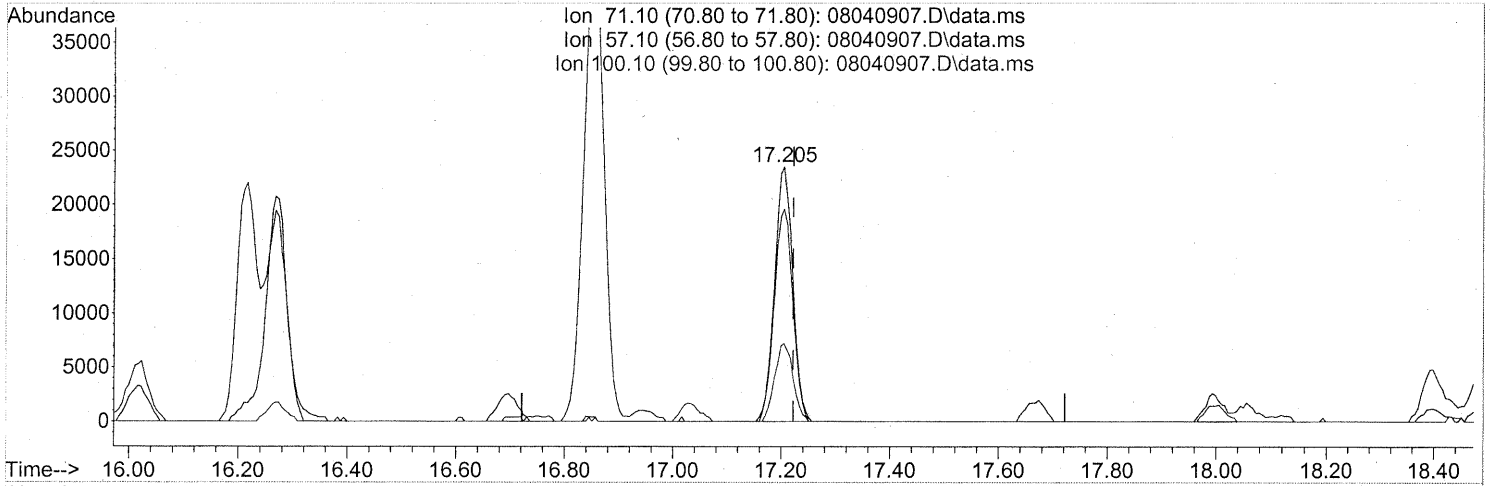
(47) Trichloroethene (T)
16.771min (-0.017) 2.91ng
response 68765

Ion	Exp%	Act%
129.90	100	100
131.90	95.60	96.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

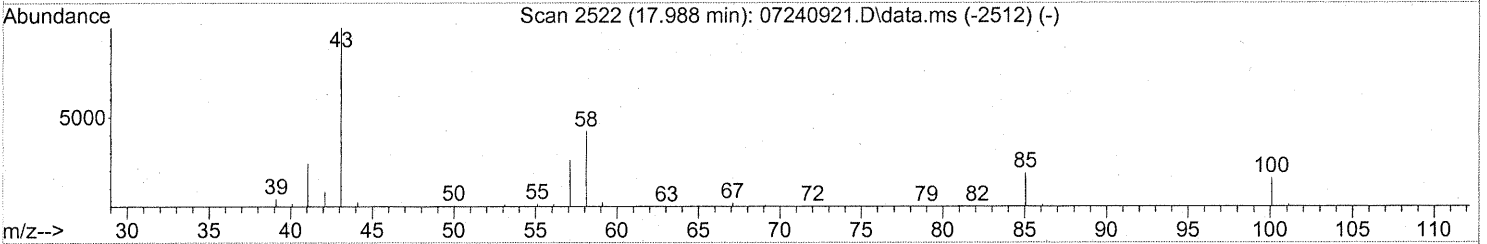
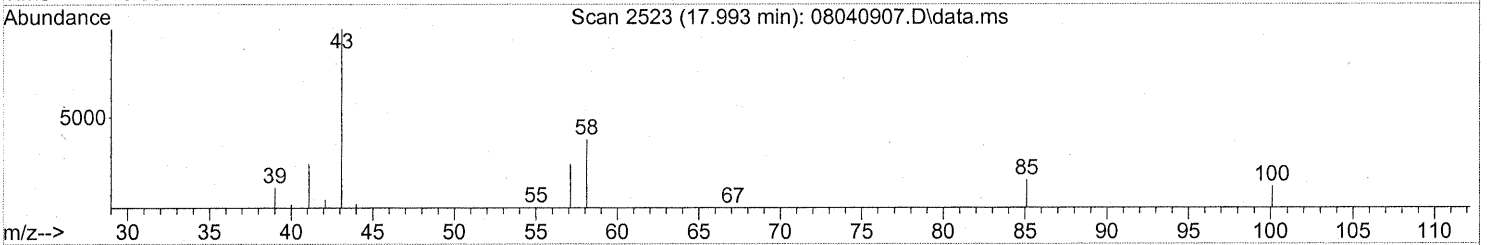
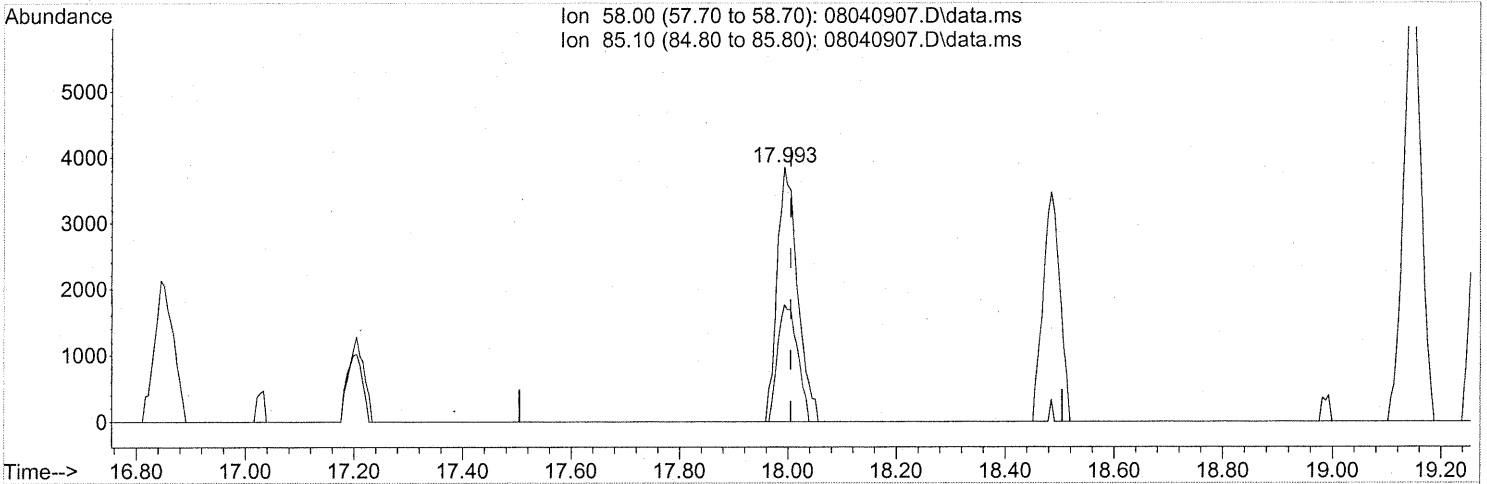
(51) n-Heptane (T)
 17.205min (-0.017) 2.43ng
 response 54255

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	85.24
100.10	30.70	30.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

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

17.993min (-0.012) 0.57ng

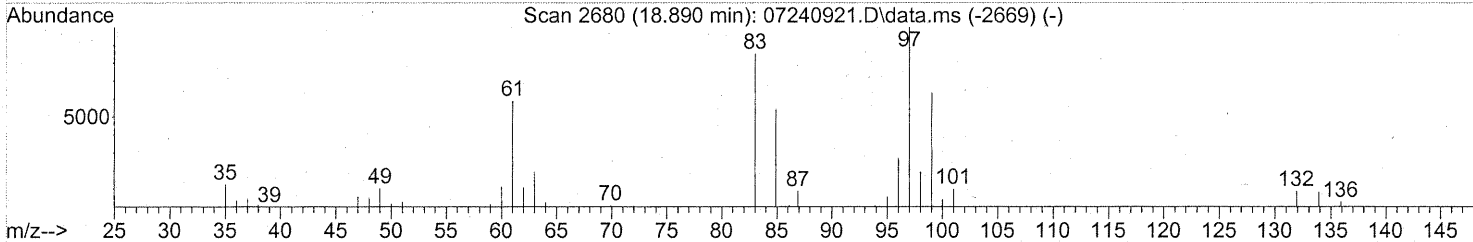
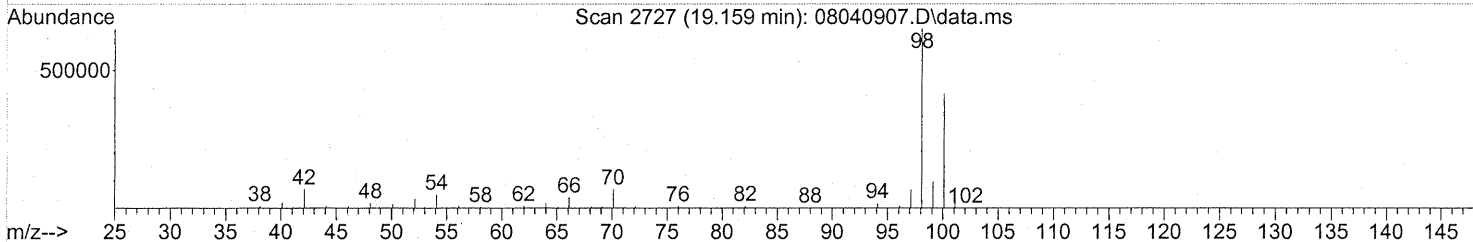
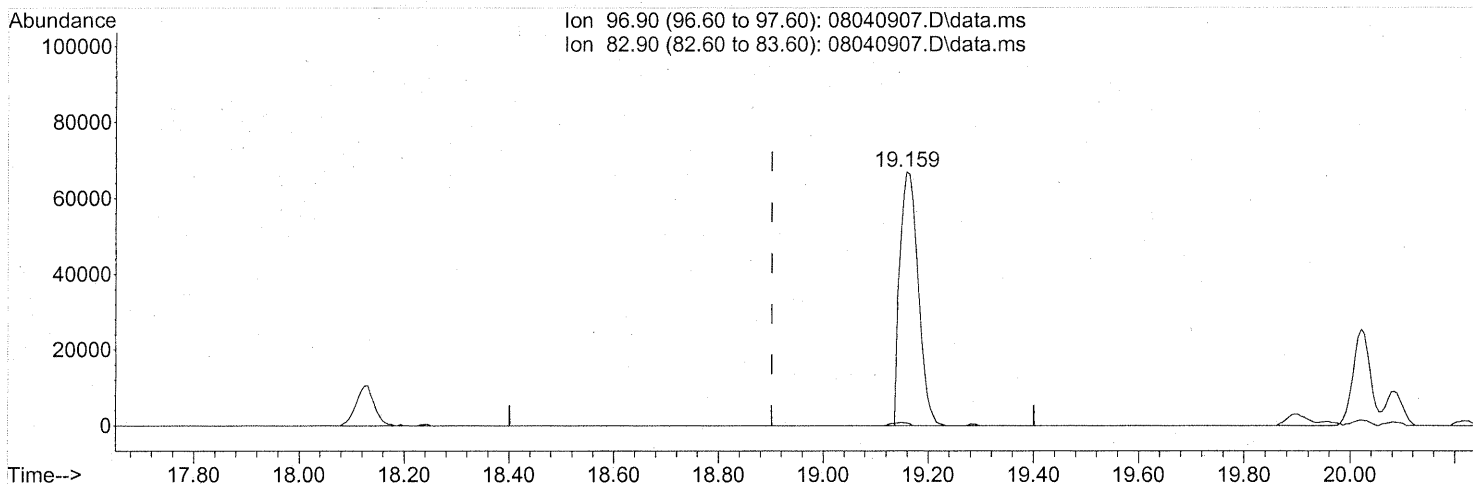
response 10019

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	44.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040907.D
Acq On : 4 Aug 2009 11:01
Operator : EM
Sample : P0902624-004 (1000ml)
Misc : Environmental H & E 99444
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 11:58:58 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040907.D\data.ms

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

19.159min (+0.257) 8.31ng

response 161299

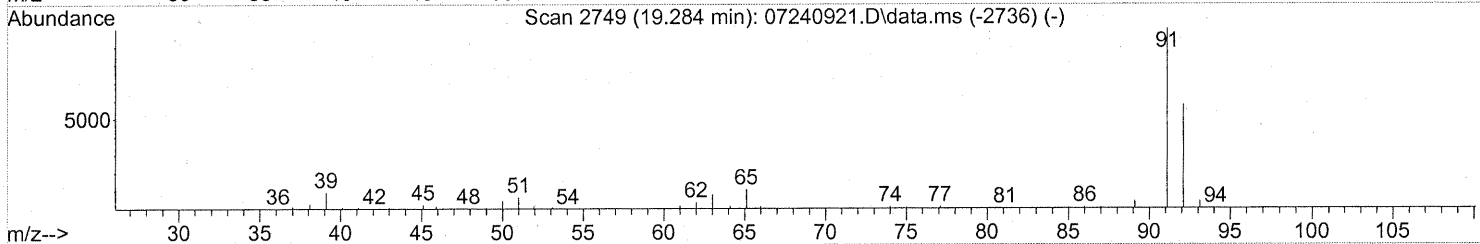
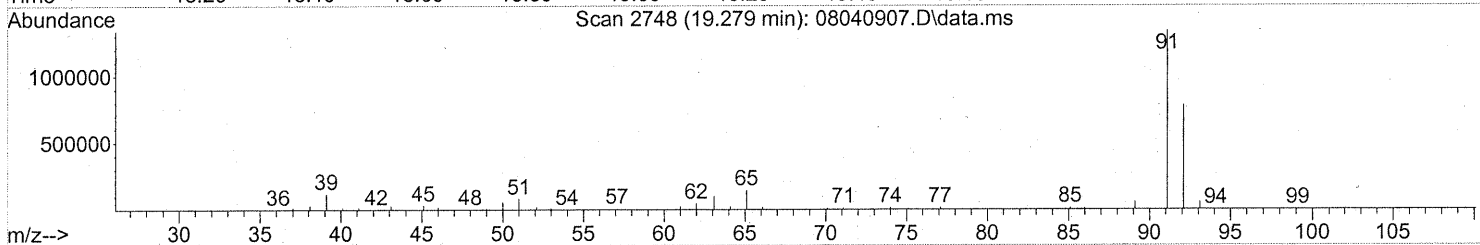
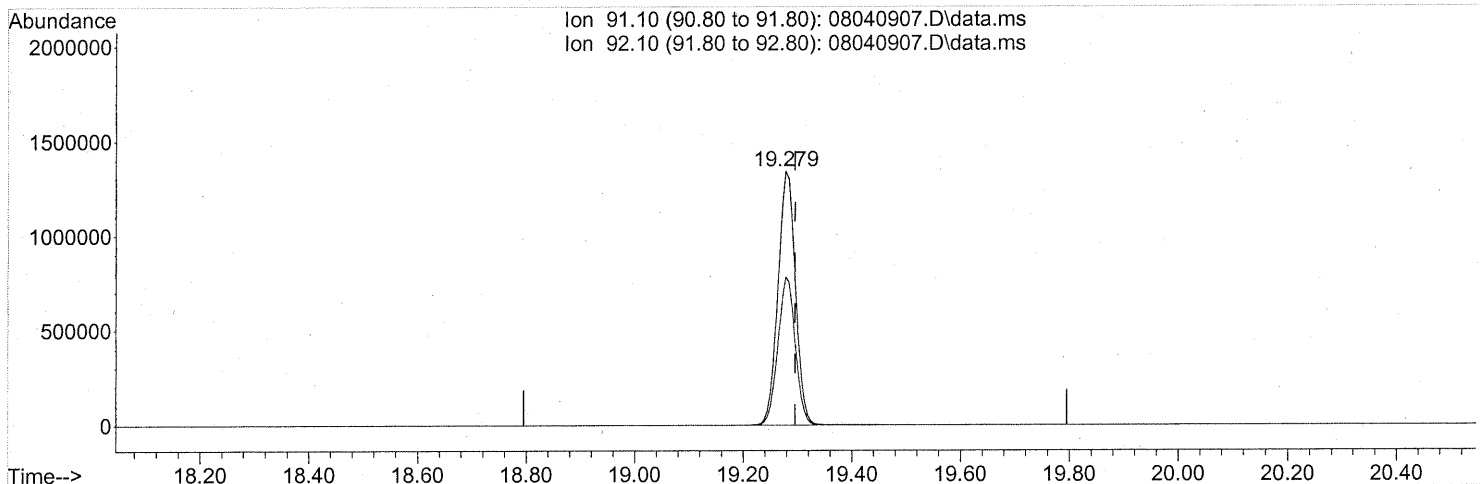
Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
Em 8/6/09
MM 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(58) Toluene (T)

19.279min (-0.017) 29.87ng

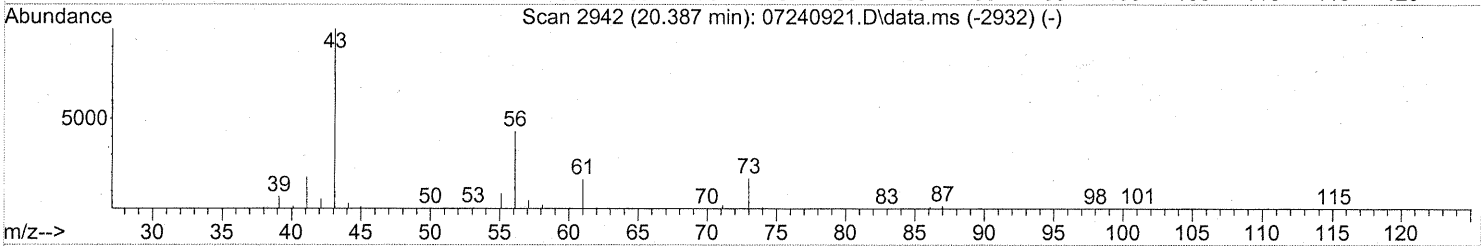
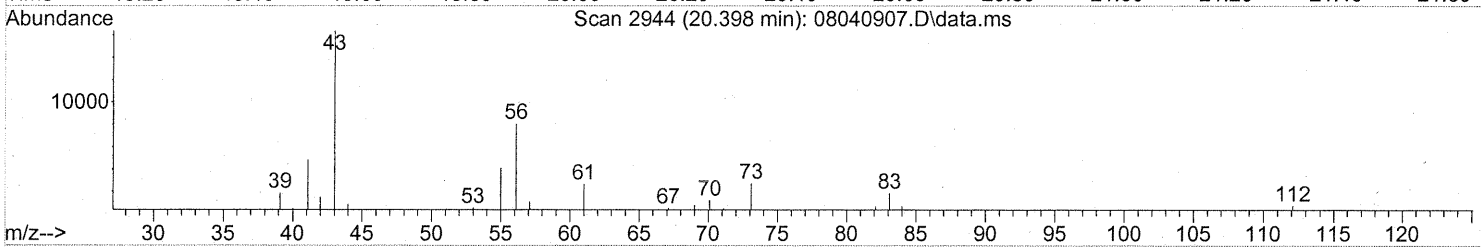
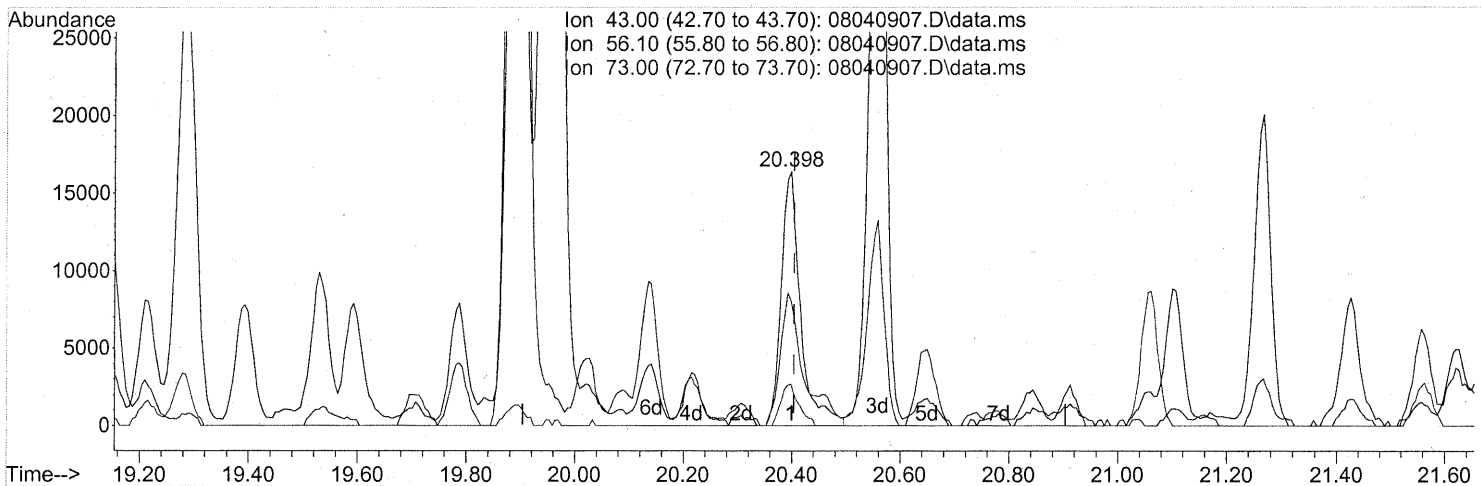
response 2980930

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

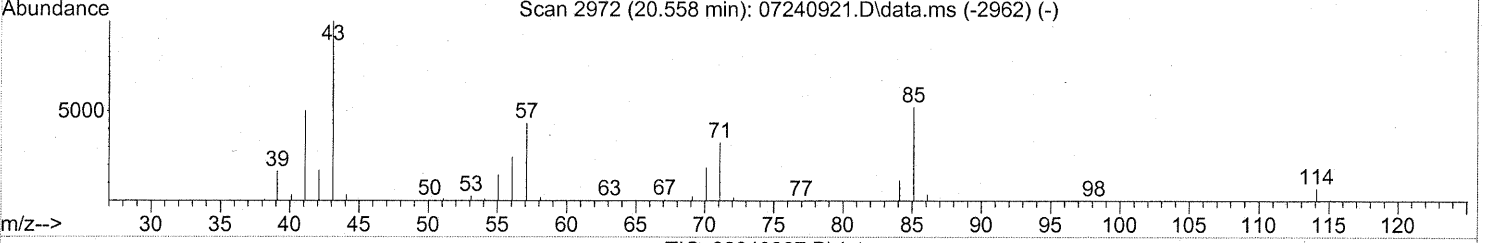
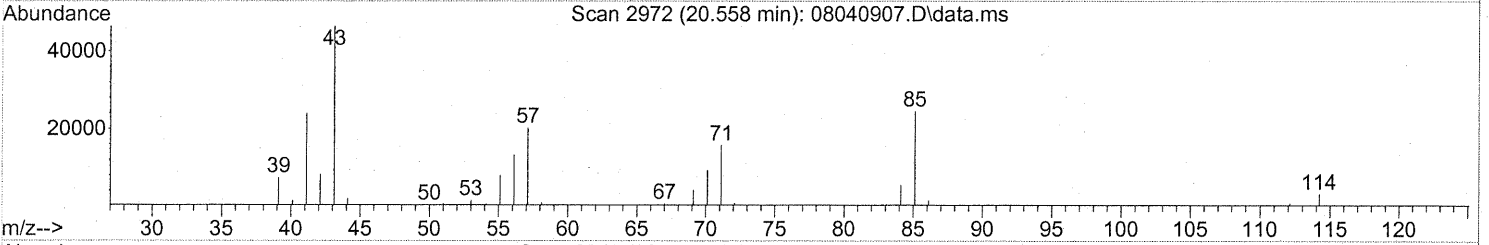
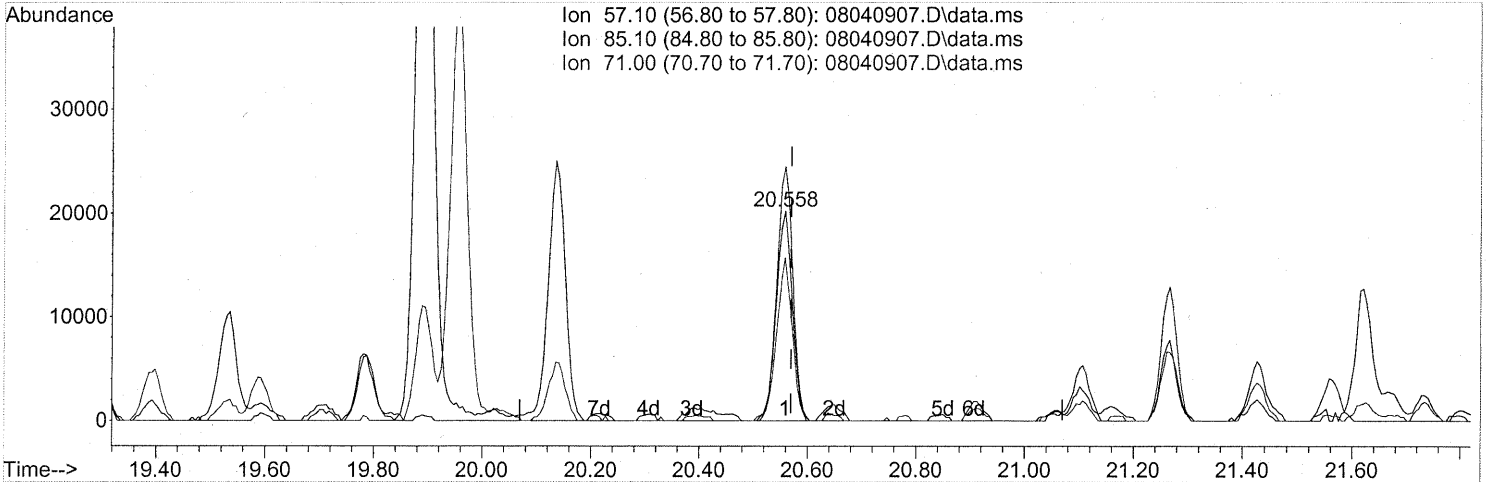
(62) n-Butyl Acetate (T)
 20.398min (-0.006) 0.84ng
 response 40298

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	64.15#
73.00	16.90	15.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

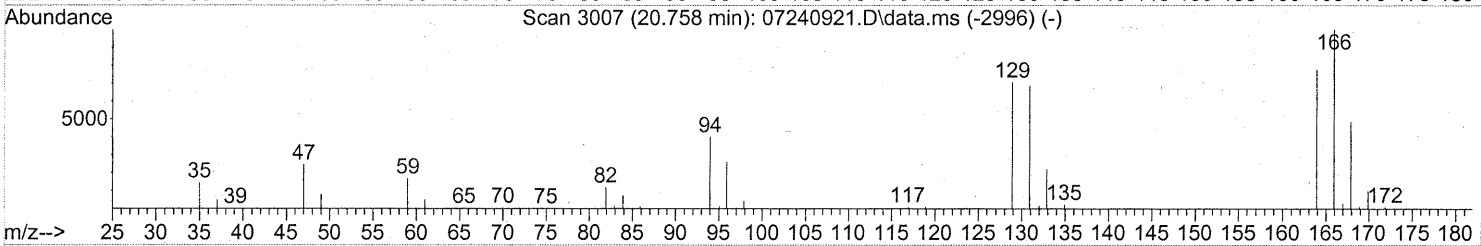
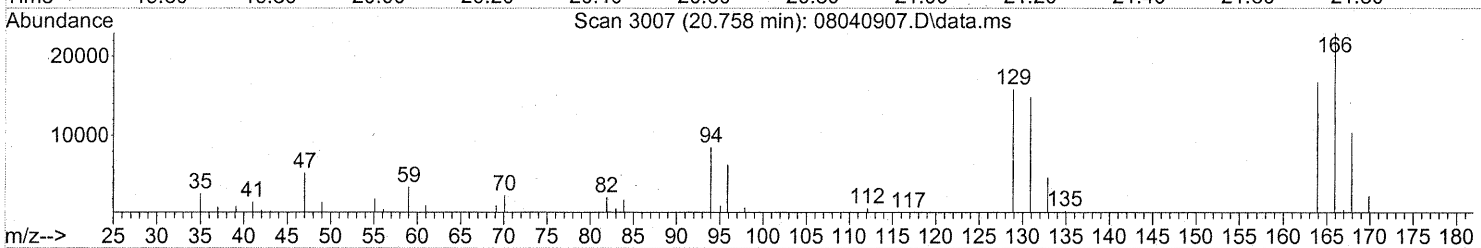
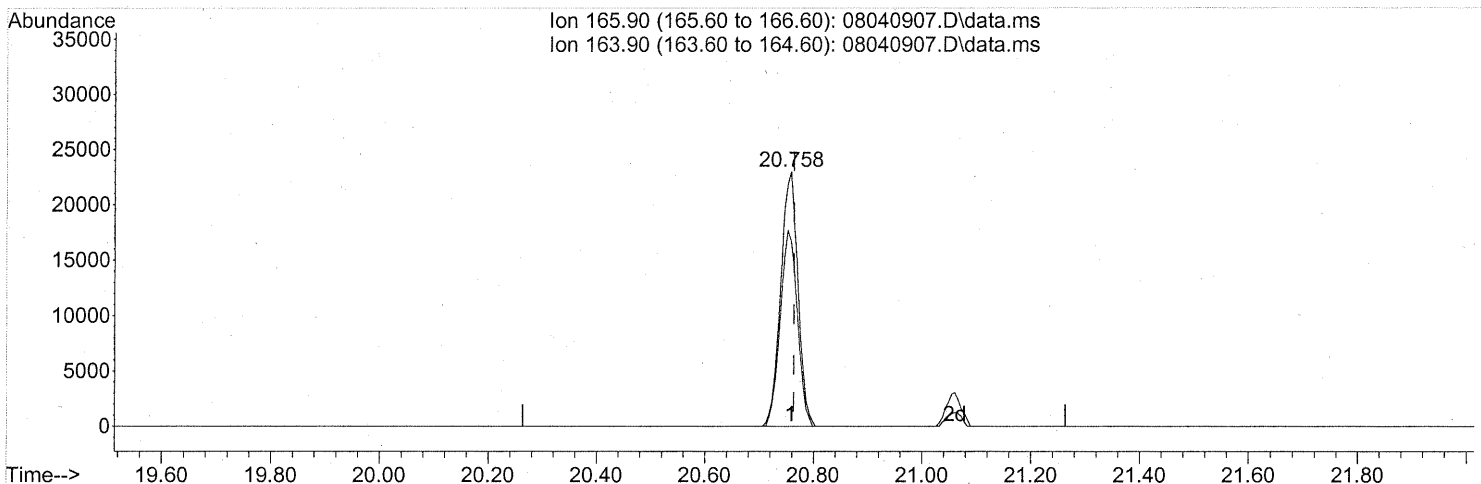
(63) n-Octane (T)
 20.558min (-0.011) 2.13ng
 response 41599

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	120.39
71.00	75.10	75.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(64) Tetrachloroethene (T)

20.758min (-0.006) 1.91ng

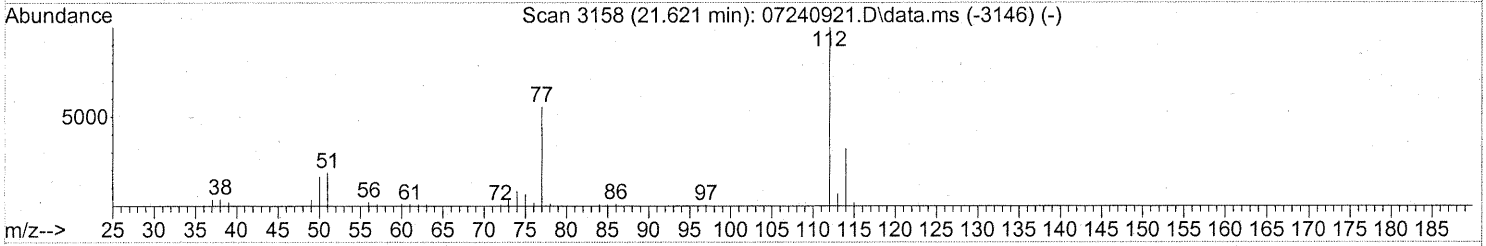
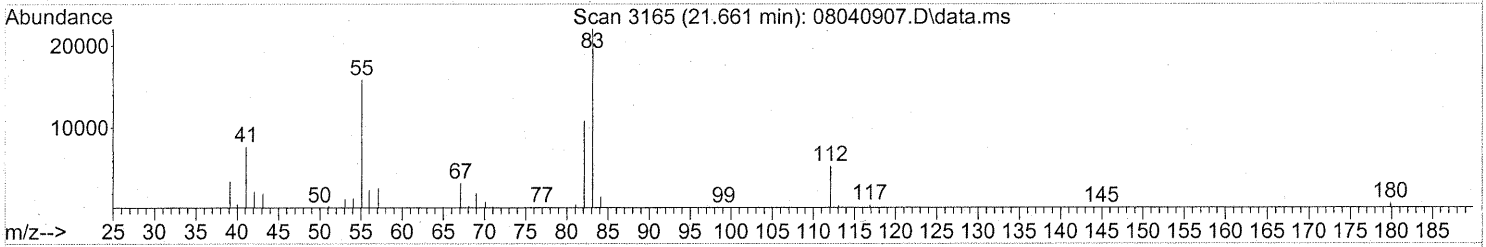
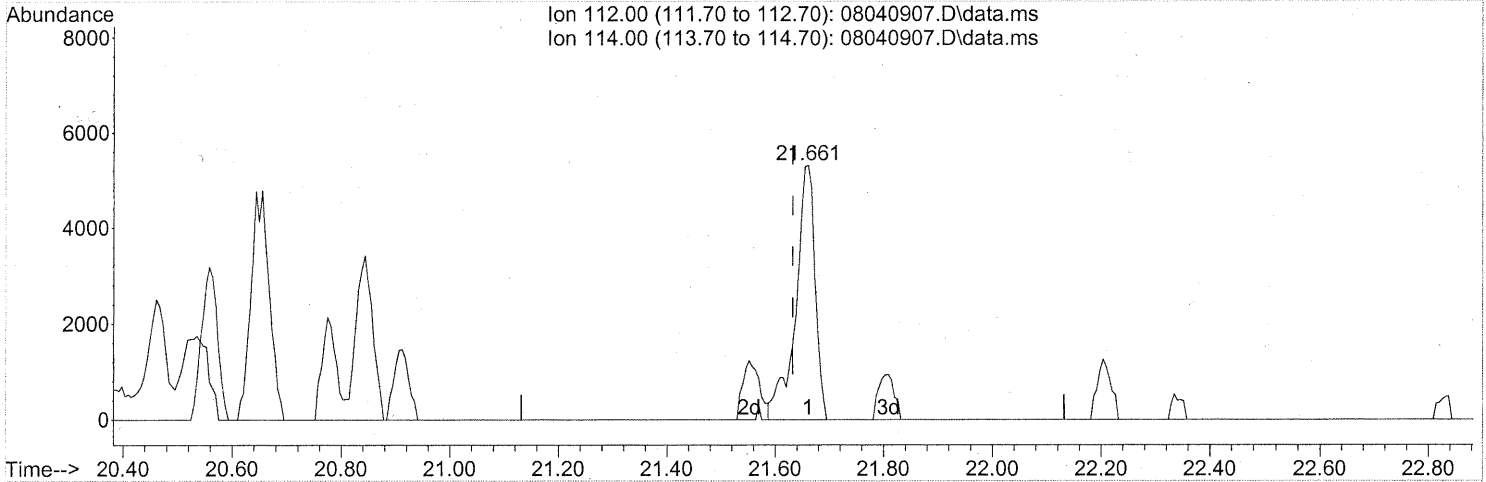
response 50495

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	76.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 11:58:58 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.661min (+0.029) 0.21ng

response 13292

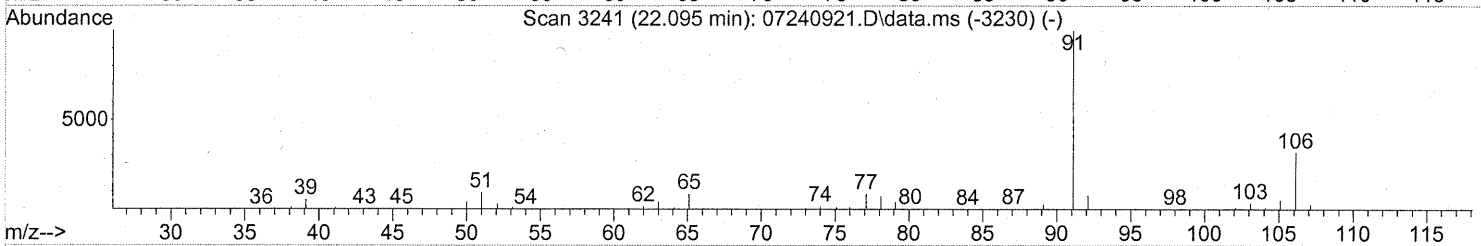
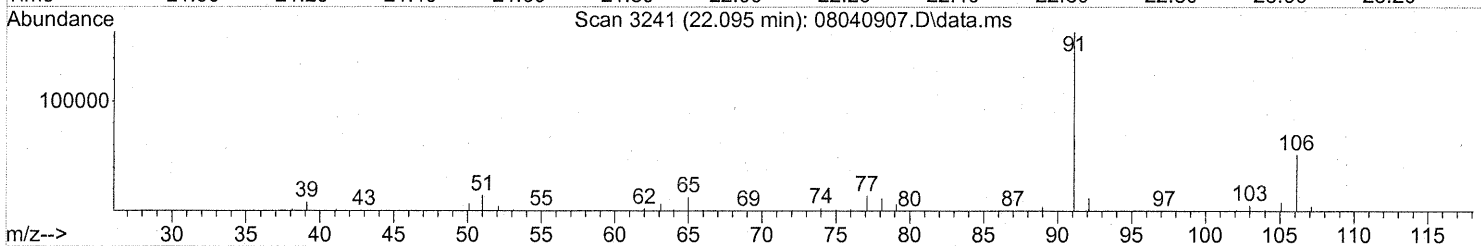
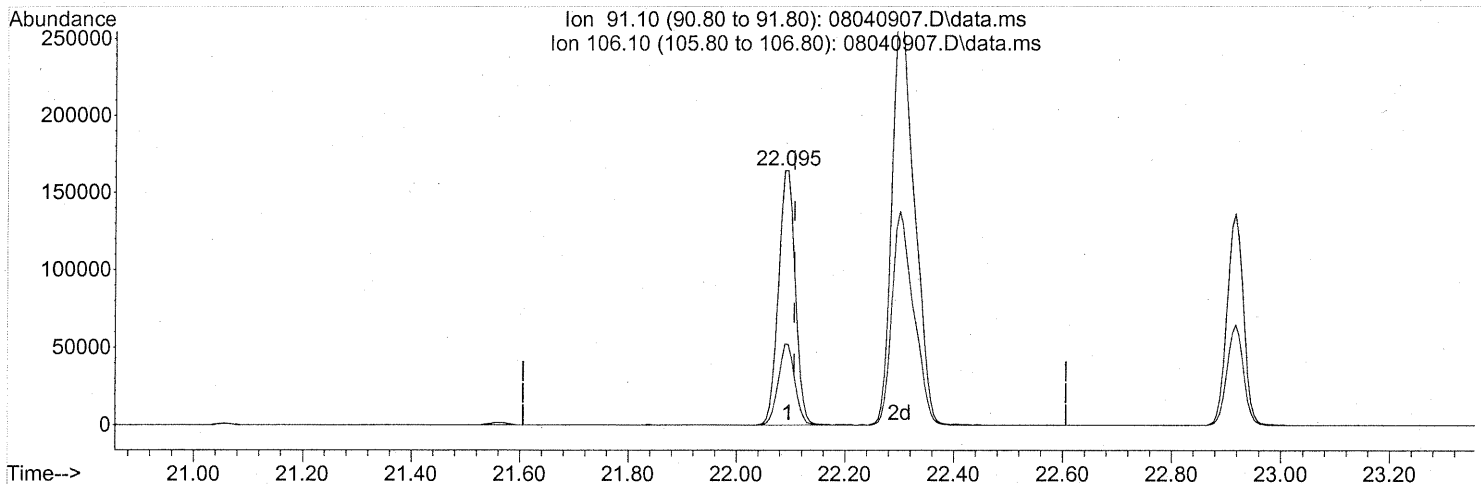
Ion	Exp%	Act%
112.00	100	100
114.00	32.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/6/09
UM 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

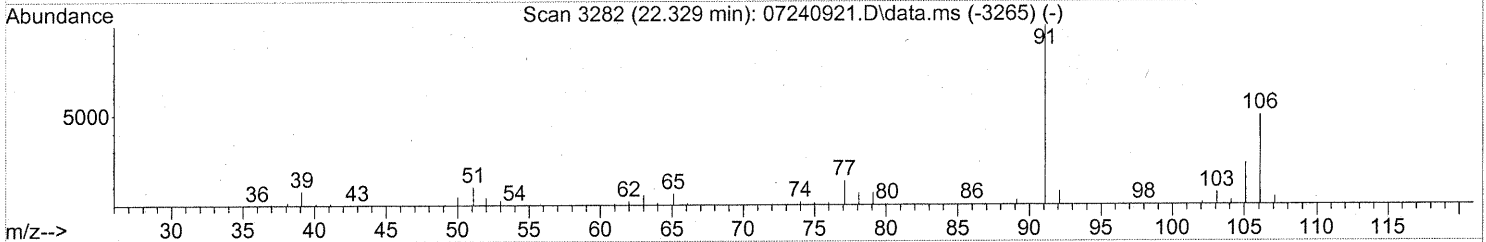
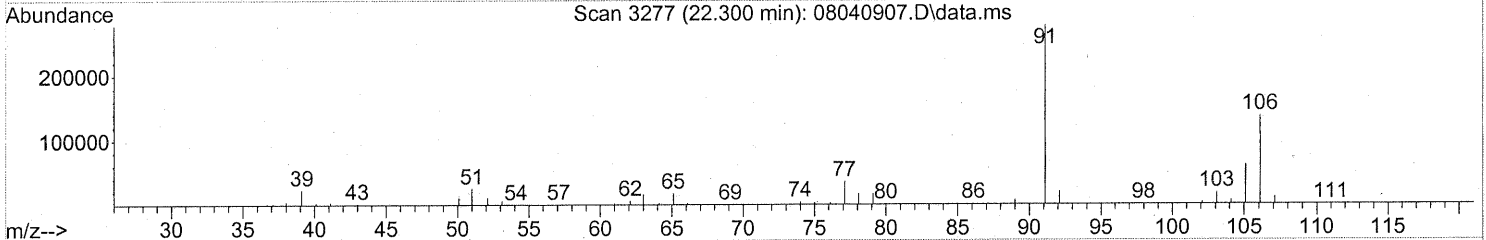
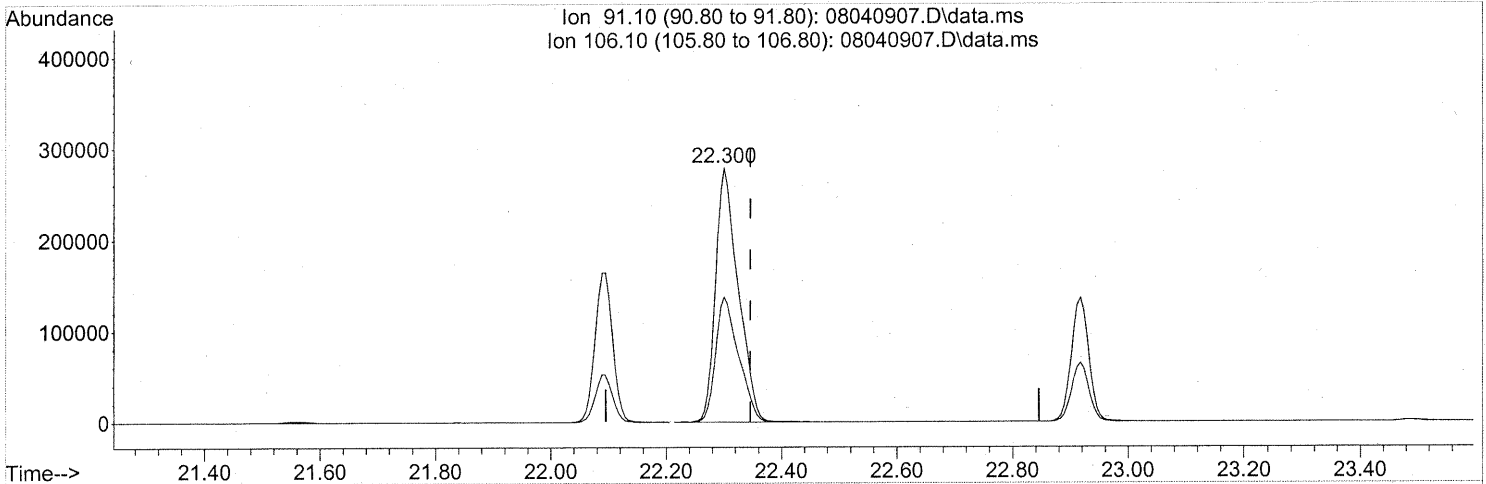
(66) Ethylbenzene (T)
 22.095min (-0.011) 3.23ng
 response 350091

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	31.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

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

22.300min (-0.046) 8.52ng

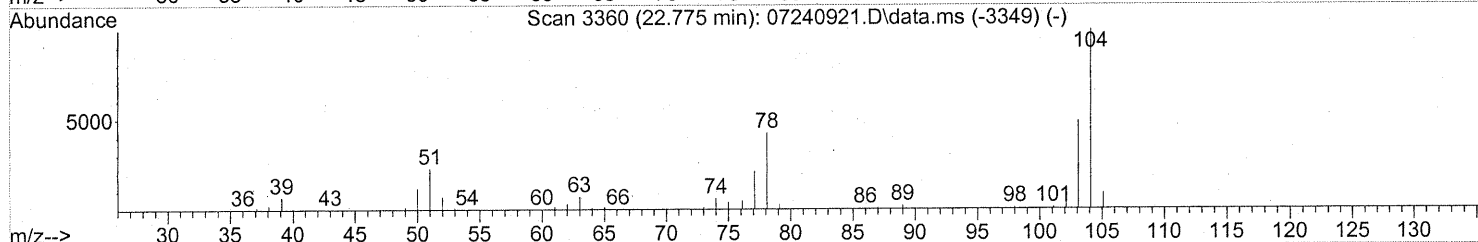
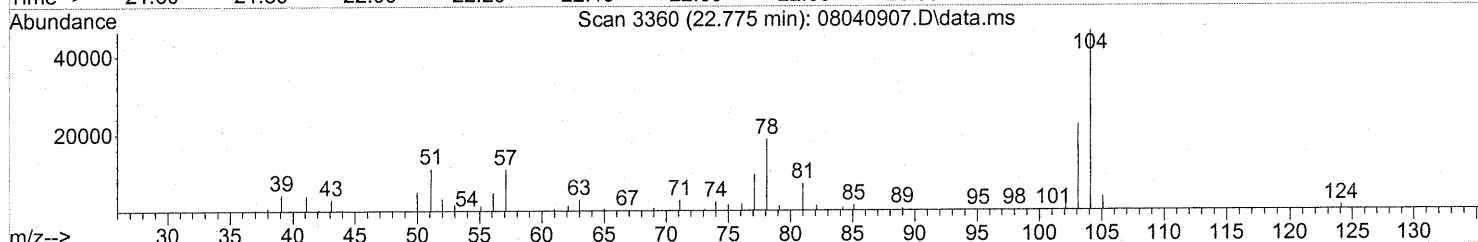
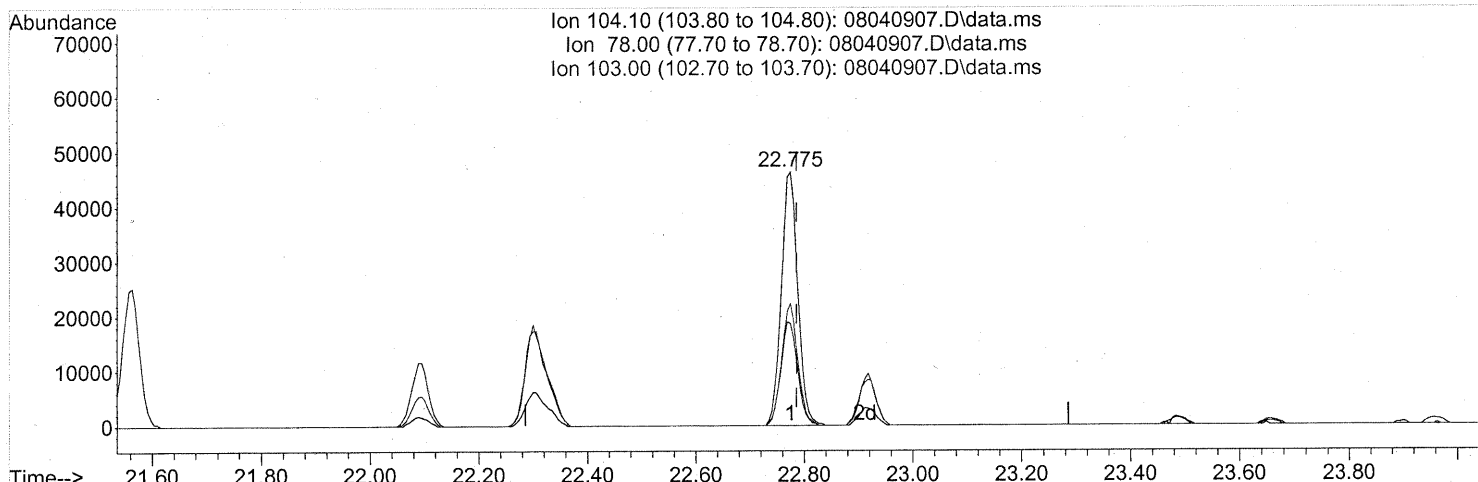
response 762414

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

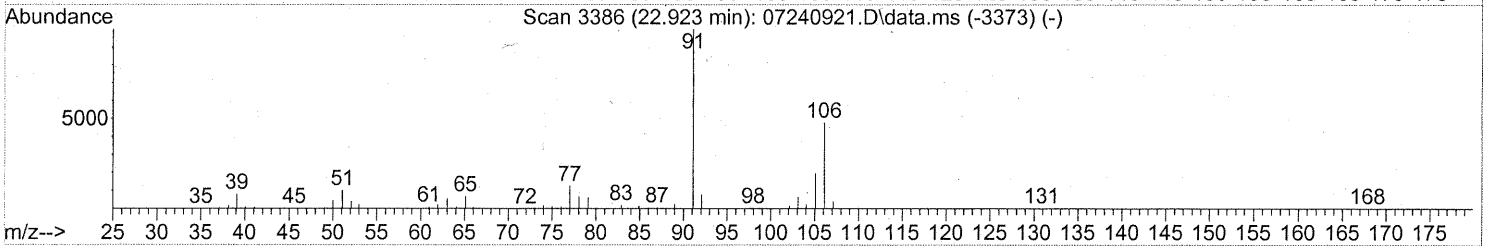
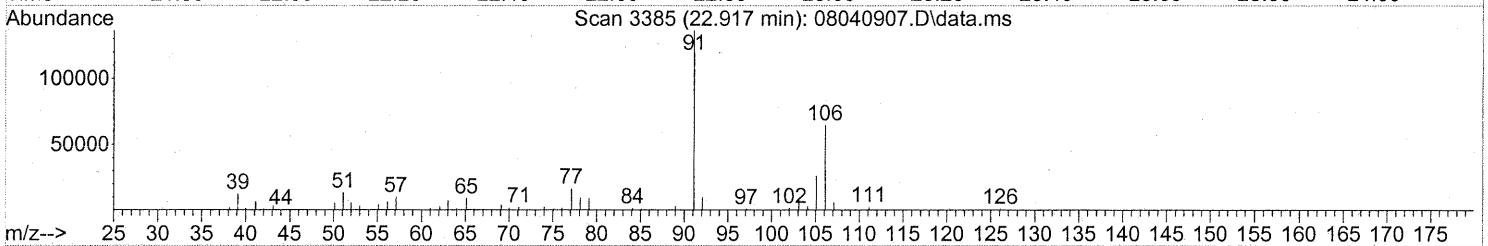
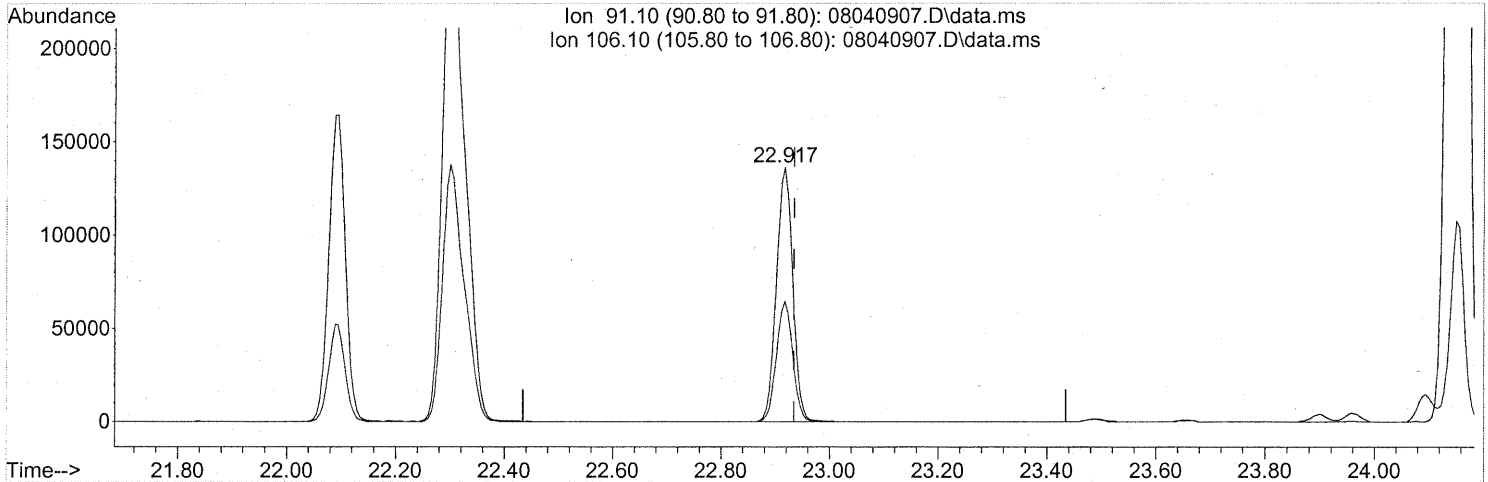
(69) Styrene (T)
 22.775min (-0.011) 1.47ng
 response 97159

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.54
103.00	48.70	47.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

(70) o-Xylene (T)

22.917min (-0.017) 3.19ng

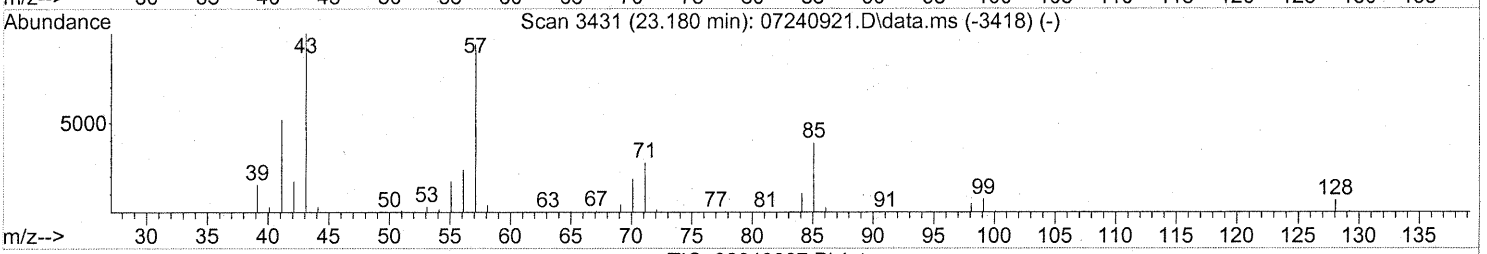
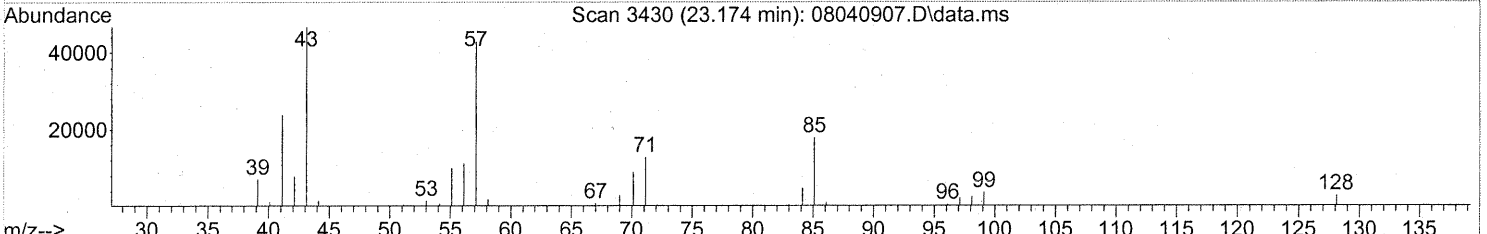
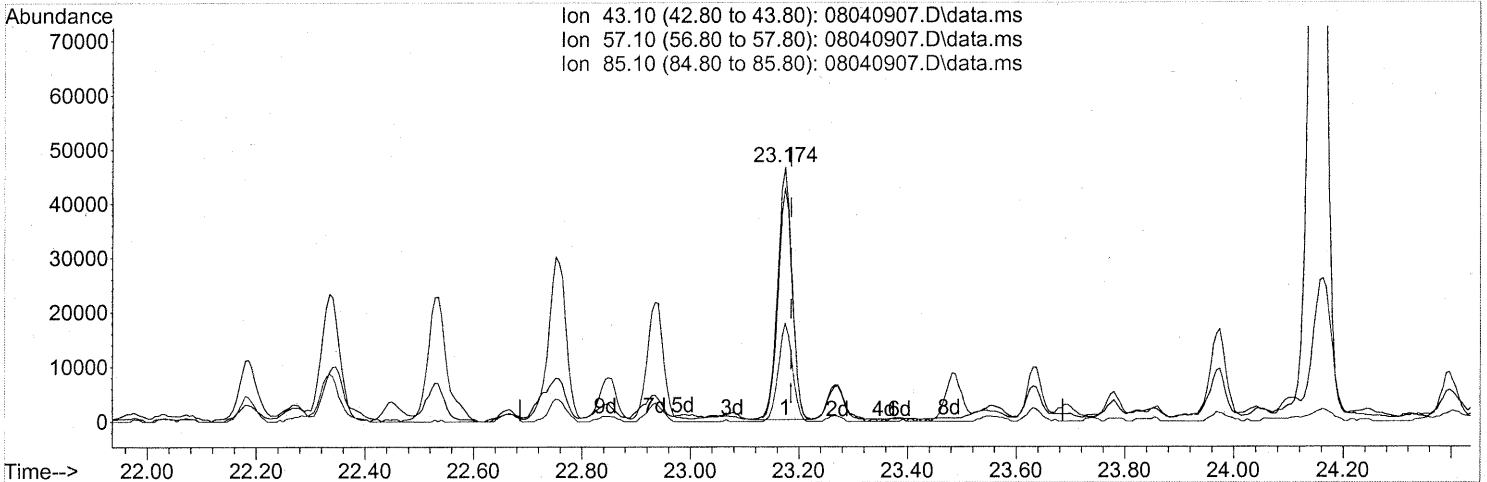
response 284550

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	47.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

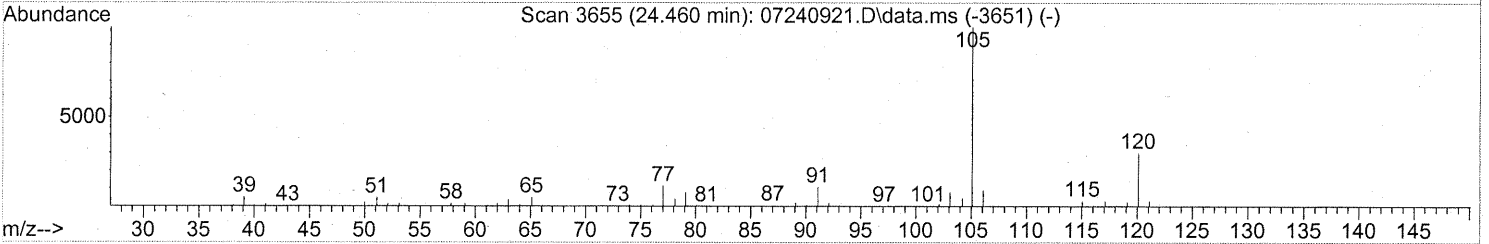
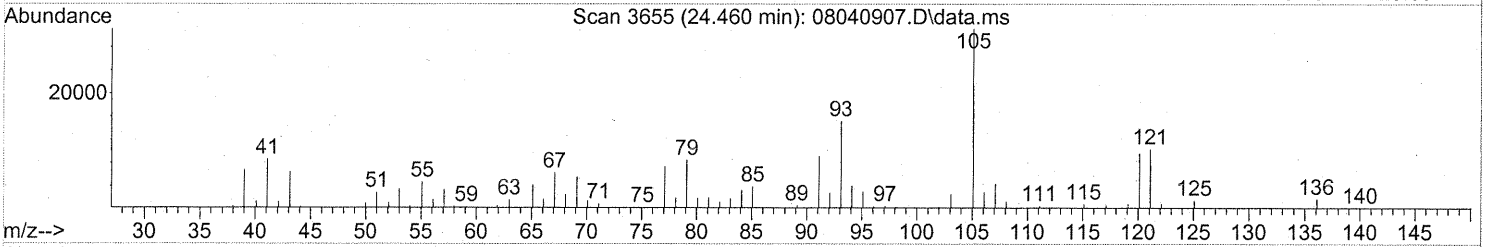
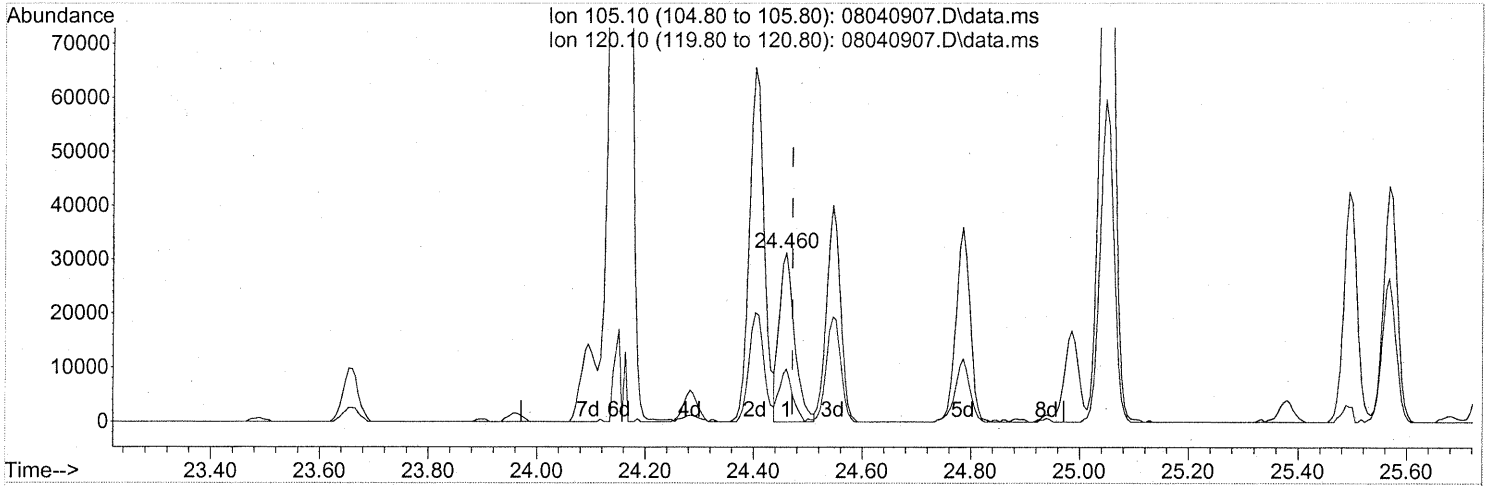
(71) n-Nonane (T)
 23.174min (-0.011) 1.99ng
 response 86621

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	90.76
85.10	38.80	37.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

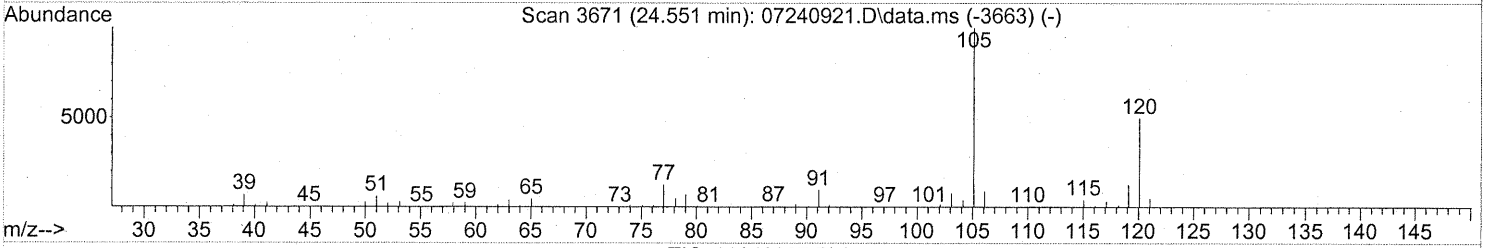
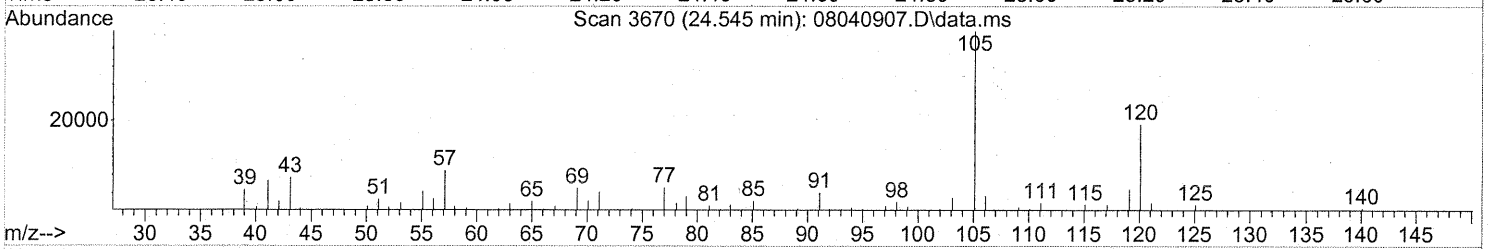
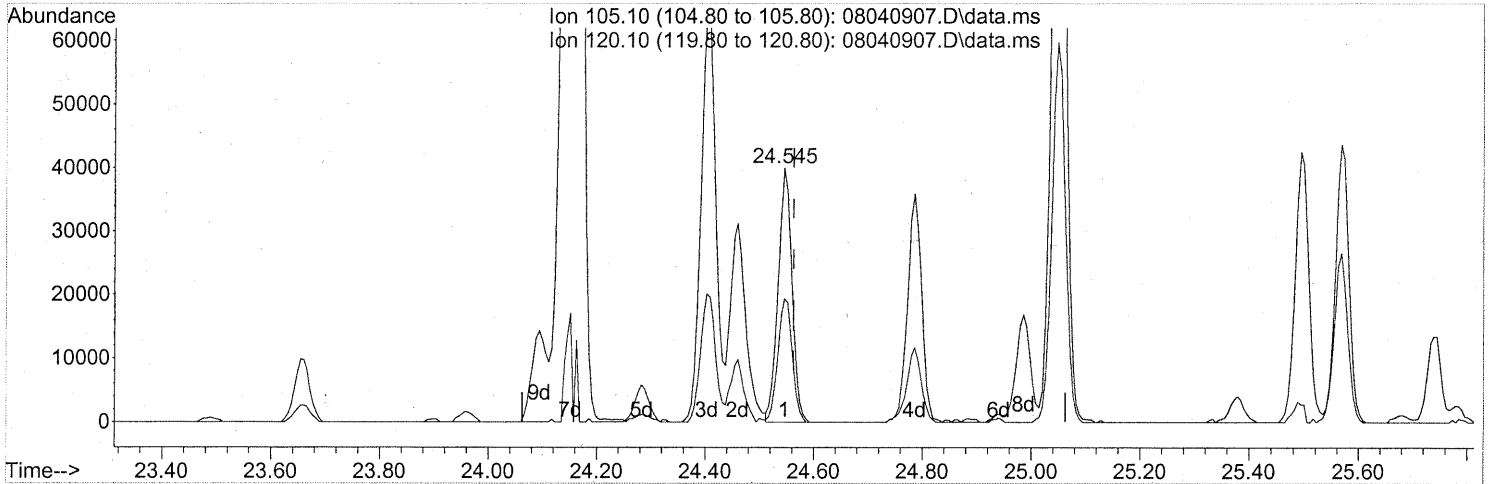
(78) 4-Ethyltoluene (T)
 24.460min (-0.011) 0.54ng
 response 60707

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	27.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

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

24.545min (-0.017) 0.75ng

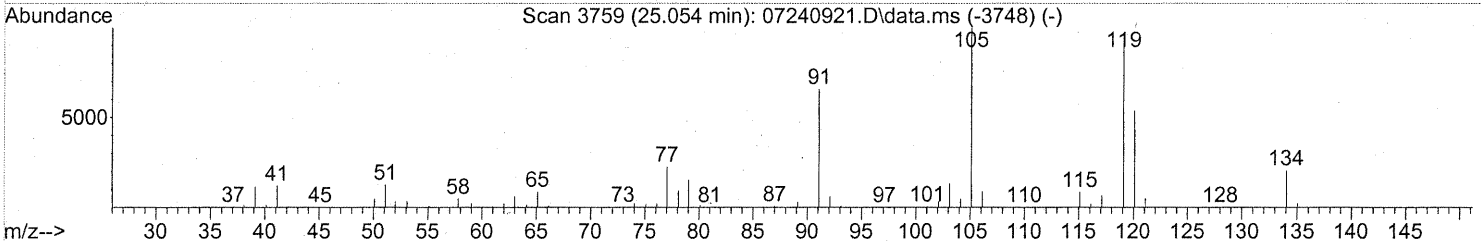
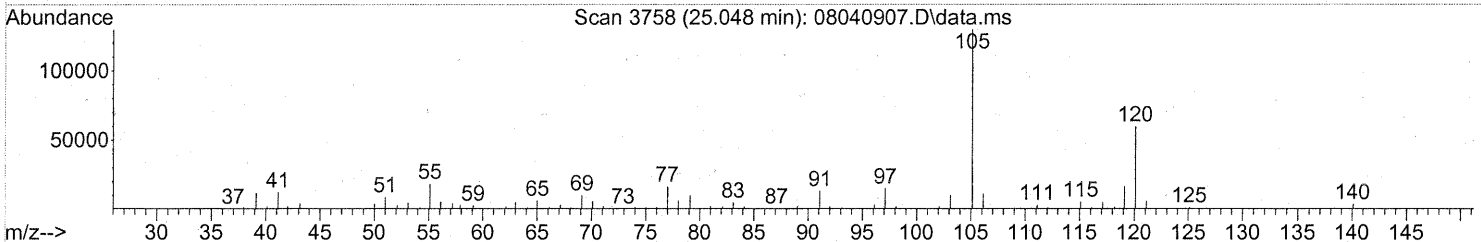
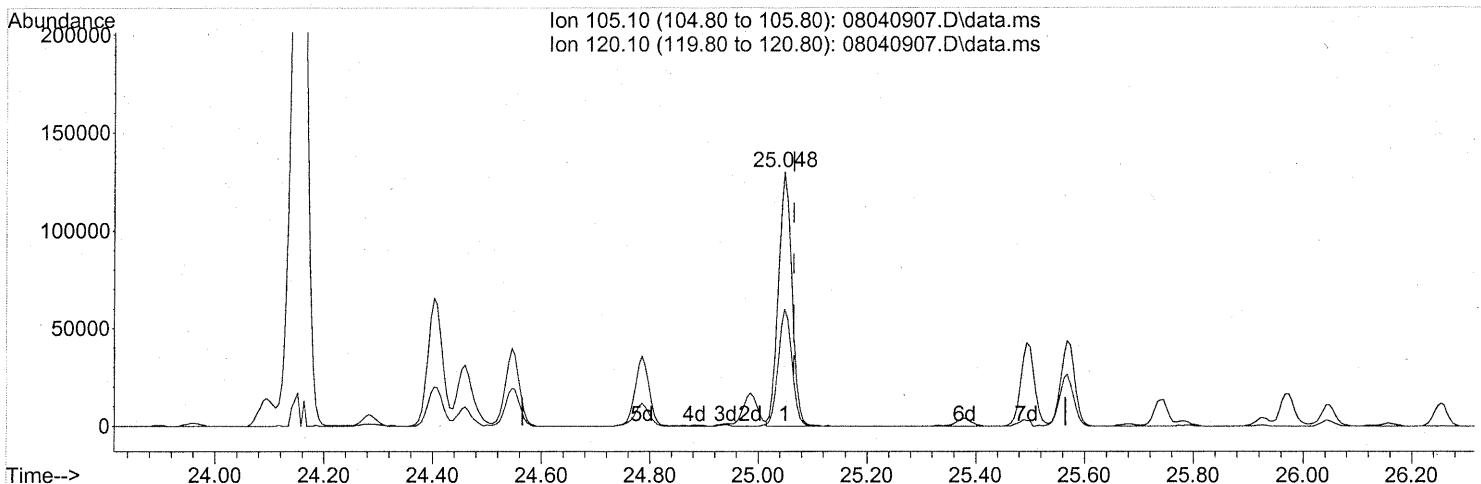
response 70541

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	50.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

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

25.048min (-0.017) 2.13ng

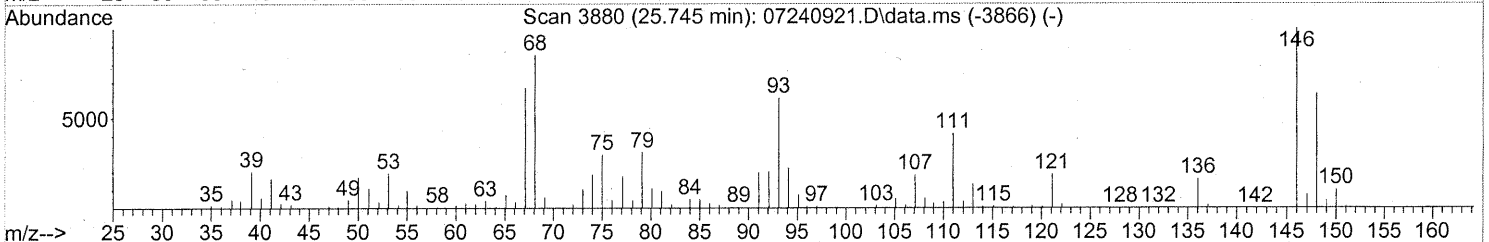
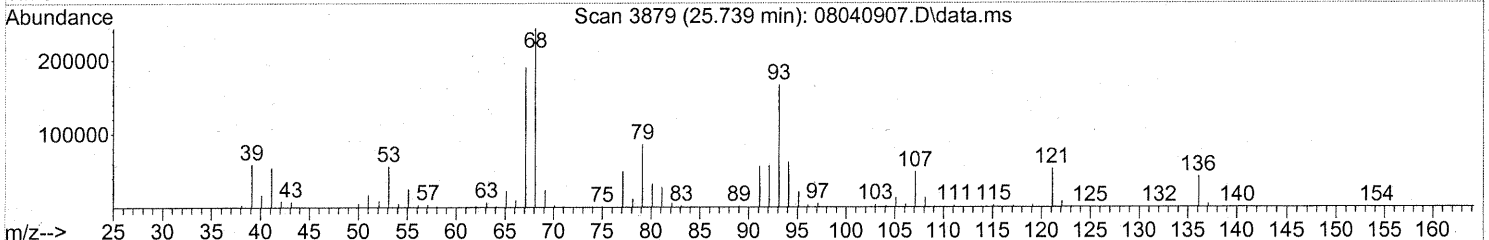
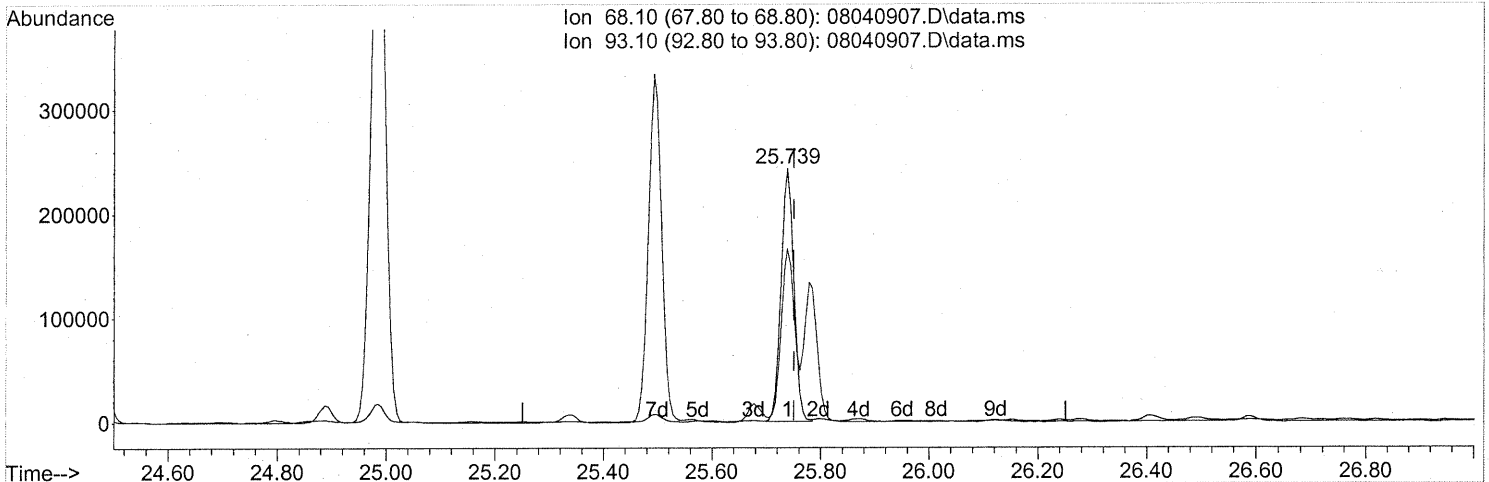
response 223125

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040907.D
 Acq On : 4 Aug 2009 11:01
 Operator : EM
 Sample : P0902624-004 (1000ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 14:59:50 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040907.D\data.ms

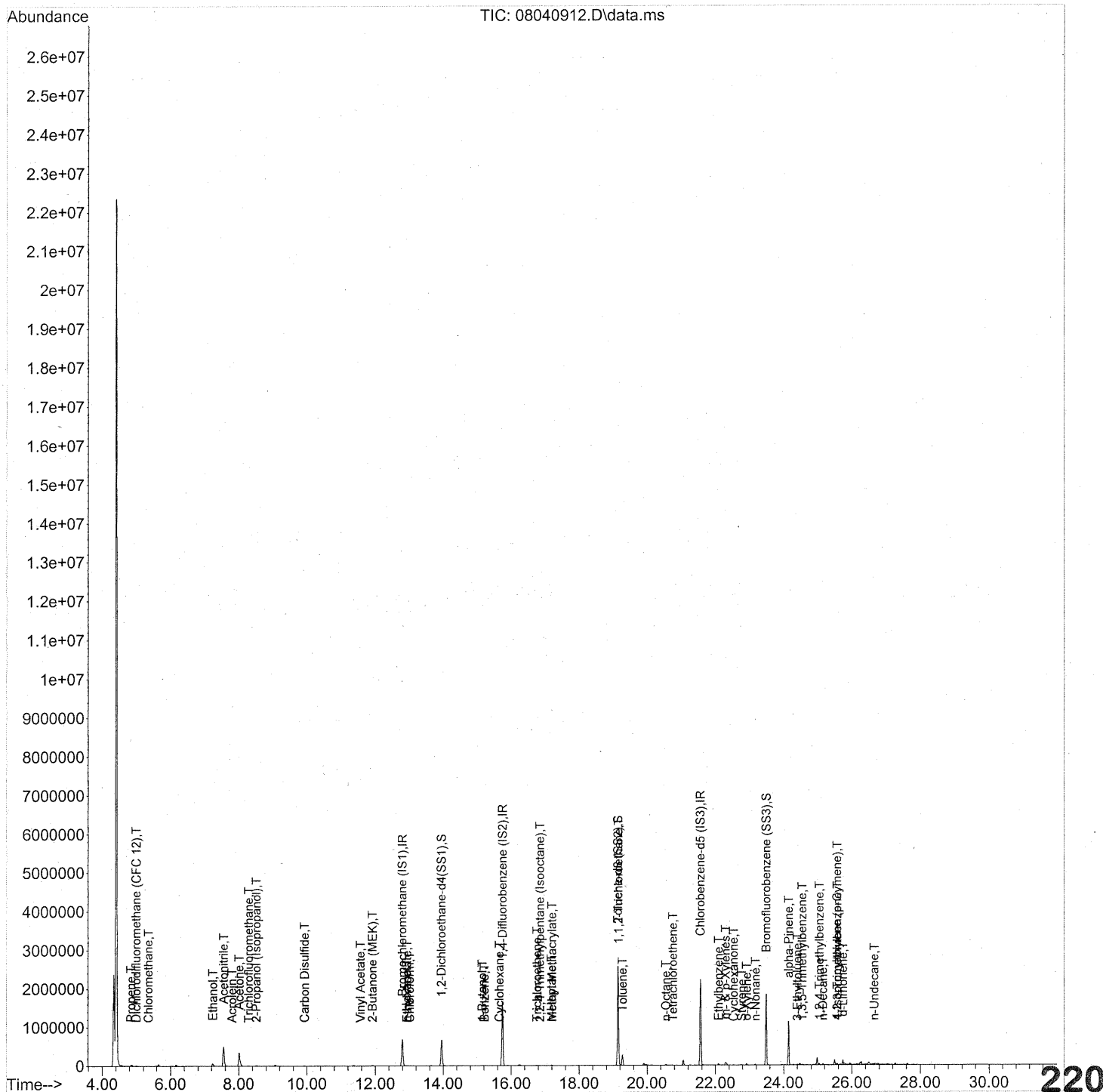
(91) d-Limonene (T)
 25.739min (-0.012) 9.54ng
 response 396964

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	73.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040912.D
 Acq On : 4 Aug 2009 15:32
 Operator : EM
 Sample : P0902624-004 dil (100ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 05 07:55:02 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040912.D
 Acq On : 4 Aug 2009 15:32
 Operator : EM
 Sample : P0902624-004 dil (100ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 05 07:55:02 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	378360	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1911952	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	898325	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	669601	25.015	ng	-0.04	✓
Spiked Amount	25.000		Recovery	=	100.04%		
57) Toluene-d8 (SS2)	19.14	98	2217156	24.947	ng	-0.02	✓
Spiked Amount	25.000		Recovery	=	99.80%		
73) Bromofluorobenzene (SS3)	23.49	174	652074	24.405	ng	0.00	✓
Spiked Amount	25.000		Recovery	=	97.60%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	5552	0.233	ng	# 32
3) Dichlorodifluoromethan...	4.99	85	14991	0.315	ng	94
4) Chloromethane	5.35	50	4957	0.139	ng	89
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	5.79	62	615	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.59	94	1052	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.24	45	114929	7.257	ng	99
11) Acetonitrile	7.56	41	780578	21.797	ng	100
12) Acrolein	7.80	56	4530	0.392	ng	100
13) Acetone	8.01	58	198316	11.009	ng	97
14) Trichlorofluoromethane	8.29	101	6481	0.156	ng	93
15) 2-Propanol (Isopropanol)	8.52	45	31074	0.656	ng	91
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.53	59	2624	N.D.		
19) Methylene Chloride	9.53	84	540	N.D.		
20) 3-Chloro-1-propene (Al...	9.52	41	114	N.D.		
21) Trichlorotrifluoroethane	9.98	151	109	N.D.		
22) Carbon Disulfide	9.93	76	14855	0.183	ng	91
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	11.57	86	986	0.229	ng	# 1
27) 2-Butanone (MEK)	11.92	72	6994	0.509	ng	# 59
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.94	61	1000	0.111	ng	95
31) n-Hexane	12.92	57	2106	0.051	ng	# 62

221

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040912.D
 Acq On : 4 Aug 2009 15:32
 Operator : EM
 Sample : P0902624-004 dil (100ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 05 07:55:02 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	2328	0.062	ng	96
34) Tetrahydrofuran (THF)	13.63	72	103	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	104	N.D.		
38) 1,1,1-Trichloroethane	14.53	97	1722	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.15	56	9069	0.382	ng	85
41) Benzene	15.22	78	11266	0.110	ng	96
42) Carbon Tetrachloride	15.45	117	1128	N.D.		
43) Cyclohexane	15.65	84	4007	0.105	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	0.00	83	0	N.D.		
47) Trichloroethene	16.77	130	6421	0.246	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	10579	0.107	ng	94
50) Methyl Methacrylate	17.20	100	1261	0.132	ng	# 1
51) n-Heptane	17.19	71	4737	0.192	ng	95
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	19.15	97	181010	8.450	ng	# 7
58) Toluene	19.27	91	262733	2.415	ng	99
59) 2-Hexanone	19.58	43	1242	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.42	43	2353	N.D.		
63) n-Octane	20.55	57	3345	0.157	ng	96
64) Tetrachloroethene	20.75	166	4395	0.153	ng	97
65) Chlorobenzene	21.65	112	1042	N.D.		
66) Ethylbenzene	22.09	91	30284	0.256	ng	100
67) m- & p-Xylenes	22.30	91	65235	0.669	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.77	104	7546	0.105	ng	98
70) o-Xylene	22.92	91	24406	0.251	ng	100
71) n-Nonane	23.17	43	7769	0.164	ng	94
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.66	105	1867	N.D.		
75) alpha-Pinene	24.15	93	511628	8.295	ng	99
76) n-Propylbenzene	24.28	91	4027	N.D.		
77) 3-Ethyltoluene	24.40	105	10706	0.088	ng	93
78) 4-Ethyltoluene	24.45	105	5404	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	6344	0.062	ng	9222

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040912.D
 Acq On : 4 Aug 2009 15:32
 Operator : EM
 Sample : P0902624-004 dil (100ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 05 07:55:02 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

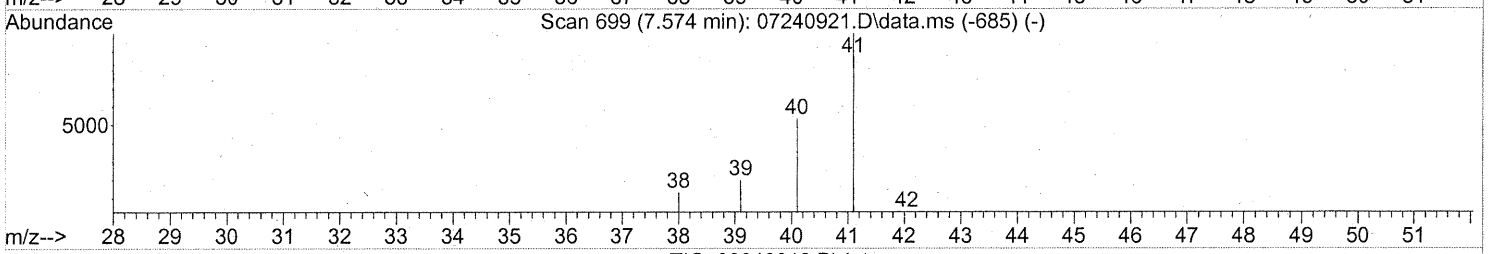
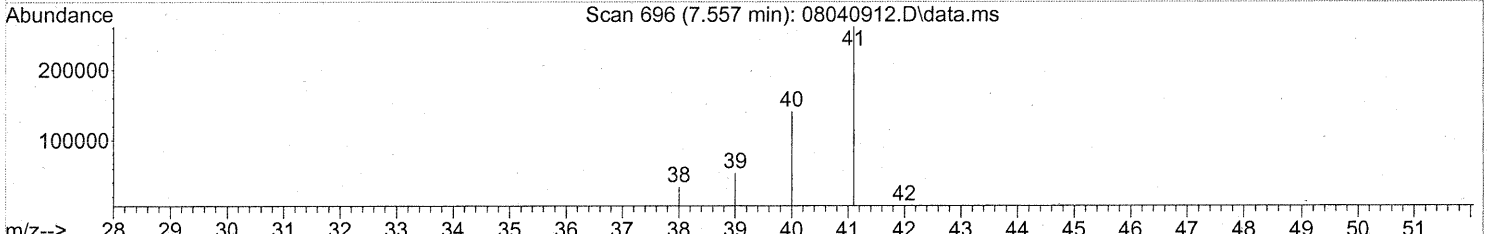
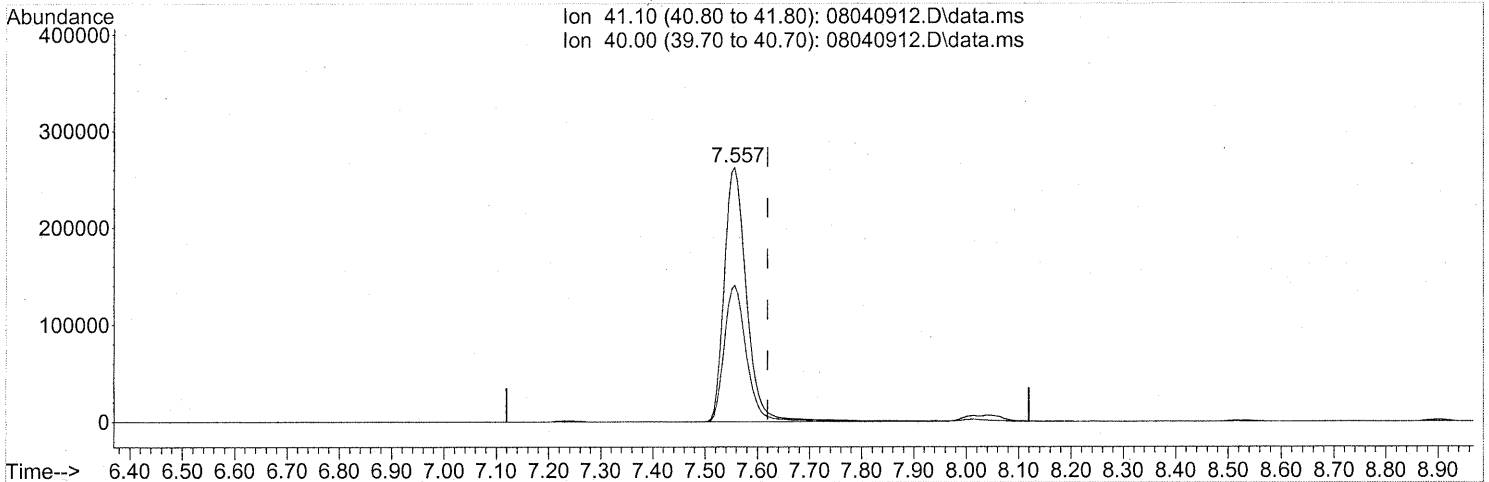
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.95	118	113		N.D.	
81) 2-Ethyltoluene	24.79	105	5494		N.D.	
82) 1,2,4-Trimethylbenzene	25.05	105	18460	0.162	ng	89
83) n-Decane	25.15	57	12687	0.230	ng	96
84) Benzyl Chloride	25.33	91	1240		N.D.	
85) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
86) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
87) sec-Butylbenzene	25.39	105	492		N.D.	
88) 4-Isopropyltoluene (p-...	25.56	119	14630	0.102	ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	6896	0.059	ng	91
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) d-Limonene	25.74	68	29332	0.647	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.65	57	7016	0.124	ng	96
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.94	128	2060		N.D.	
96) n-Dodecane	27.89	57	2571		N.D.	
97) Hexachlorobutadiene	0.00	225	0		N.D.	
98) Cyclohexanone	22.53	55	1821	0.055	ng	# 83
99) tert-Butylbenzene	25.05	119	2088		N.D.	
100) n-Butylbenzene	26.05	91	1500		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040912.D
 Acq On : 4 Aug 2009 15:32
 Operator : EM
 Sample : P0902624-004 dil (100ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 05 07:55:02 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040912.D\data.ms

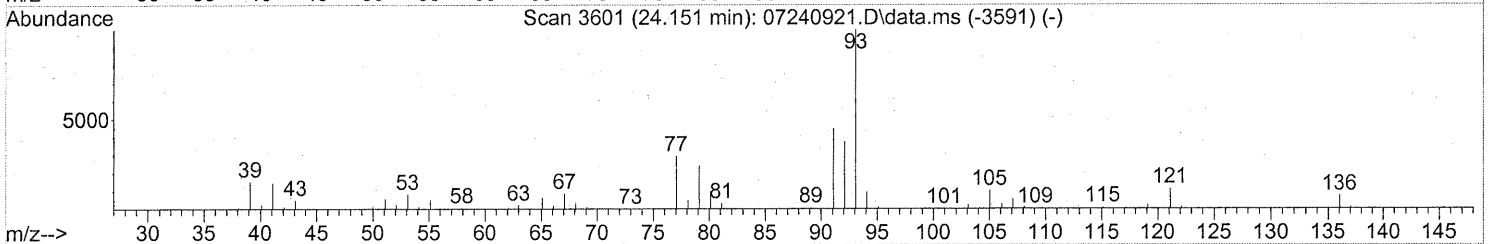
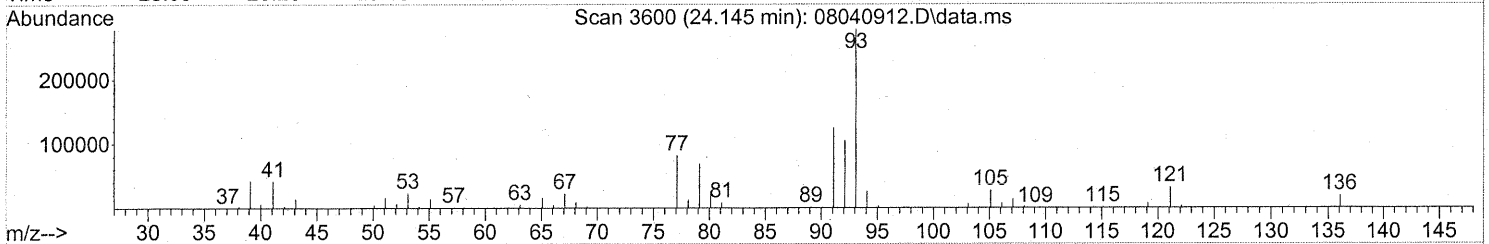
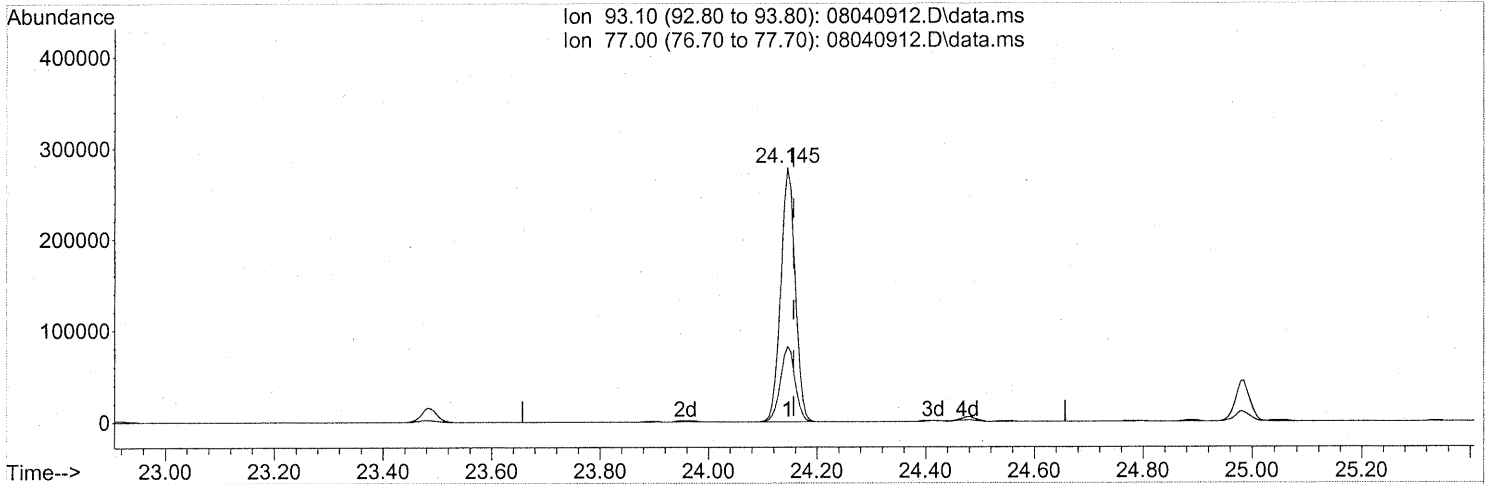
(11) Acetonitrile (T)
 7.557min (-0.063) 21.80ng
 response 780578

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	53.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040912.D
 Acq On : 4 Aug 2009 15:32
 Operator : EM
 Sample : P0902624-004 dil (100ml)
 Misc : Environmental H & E 99444
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 05 07:55:02 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040912.D\data.ms

(75) alpha-Pinene (T)
 24.145min (-0.011) 8.29ng
 response 511628

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.97
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, Incorporated
Client Sample ID: 99445
Client Project ID: 16512

CAS Project ID: P0902624
CAS Sample ID: P0902624-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01312

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): 0.0 **Final Pressure (psig):** 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	2.2	0.62	1.3	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.9	0.62	0.78	0.13	
74-87-3	Chloromethane	0.76	0.12	0.37	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.089	
75-01-4	Vinyl Chloride	0.20	0.12	0.080	0.049	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	0.60	0.12	0.15	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	140	6.2	72	3.3	
75-05-8	Acetonitrile	240	0.62	140	0.37	D
107-02-8	Acrolein	7.3	0.62	3.2	0.27	
67-64-1	Acetone	190	6.2	80	2.6	
75-69-4	Trichlorofluoromethane	2.1	0.12	0.37	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	9.8	0.62	4.0	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.53	0.12	0.069	0.016	
75-15-0	Carbon Disulfide	2.3	0.62	0.75	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	7.8	6.2	2.2	1.8	
78-93-3	2-Butanone (MEK)	12	0.62	4.1	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.

D = The reported result is from a dilution.

Verified By: _____

Date: _____

8/4/09

226

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99445

Client Project ID: 16512

CAS Project ID: P0902624

CAS Sample ID: P0902624-005

Test Code: EPA TO-15

Date Collected: 7/30/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 7/31/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/4/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: AC01312

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	6.7	0.62	1.9	0.17	
110-54-3	n-Hexane	0.78	0.62	0.22	0.18	
67-66-3	Chloroform	0.94	0.12	0.19	0.025	
109-99-9	Tetrahydrofuran (THF)	3.0	0.62	1.0	0.21	
107-06-2	1,2-Dichloroethane	0.39	0.12	0.097	0.031	
71-55-6	1,1,1-Trichloroethane	0.88	0.12	0.16	0.023	
71-43-2	Benzene	1.6	0.12	0.49	0.039	
56-23-5	Carbon Tetrachloride	0.62	0.12	0.099	0.020	
110-82-7	Cyclohexane	1.3	0.62	0.38	0.18	
78-87-5	1,2-Dichloropropane	0.16	0.12	0.034	0.027	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.019	
79-01-6	Trichloroethene	3.6	0.12	0.67	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	1.0	0.62	0.24	0.15	
142-82-5	n-Heptane	3.1	0.62	0.75	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	1.6	0.62	0.38	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	44	0.62	12	0.16	
591-78-6	2-Hexanone	1.3	0.62	0.32	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	4.6	0.62	0.97	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: _____

8/4/09 227

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99445
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P0902624-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01312

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	3.3	0.62	0.71	0.13	
127-18-4	Tetrachloroethene	2.5	0.12	0.37	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	6.1	0.62	1.4	0.14	
179601-23-1	m,p-Xylenes	16	0.62	3.8	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	4.5	0.62	1.1	0.15	
95-47-6	o-Xylene	5.9	0.62	1.3	0.14	
111-84-2	n-Nonane	2.9	0.62	0.55	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.62	ND	0.13	
80-56-8	alpha-Pinene	110	0.62	20	0.11	D
103-65-1	n-Propylbenzene	0.98	0.62	0.20	0.13	
622-96-8	4-Ethyltoluene	1.5	0.62	0.30	0.13	
108-67-8	1,3,5-Trimethylbenzene	1.4	0.62	0.29	0.13	
95-63-6	1,2,4-Trimethylbenzene	5.9	0.62	1.2	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.021	
106-46-7	1,4-Dichlorobenzene	0.55	0.12	0.092	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.021	
5989-27-5	d-Limonene	19	0.62	3.4	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.12	ND	0.017	
91-20-3	Naphthalene	3.4	0.25	0.66	0.047	
87-68-3	Hexachlorobutadiene	ND	0.12	ND	0.012	

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.

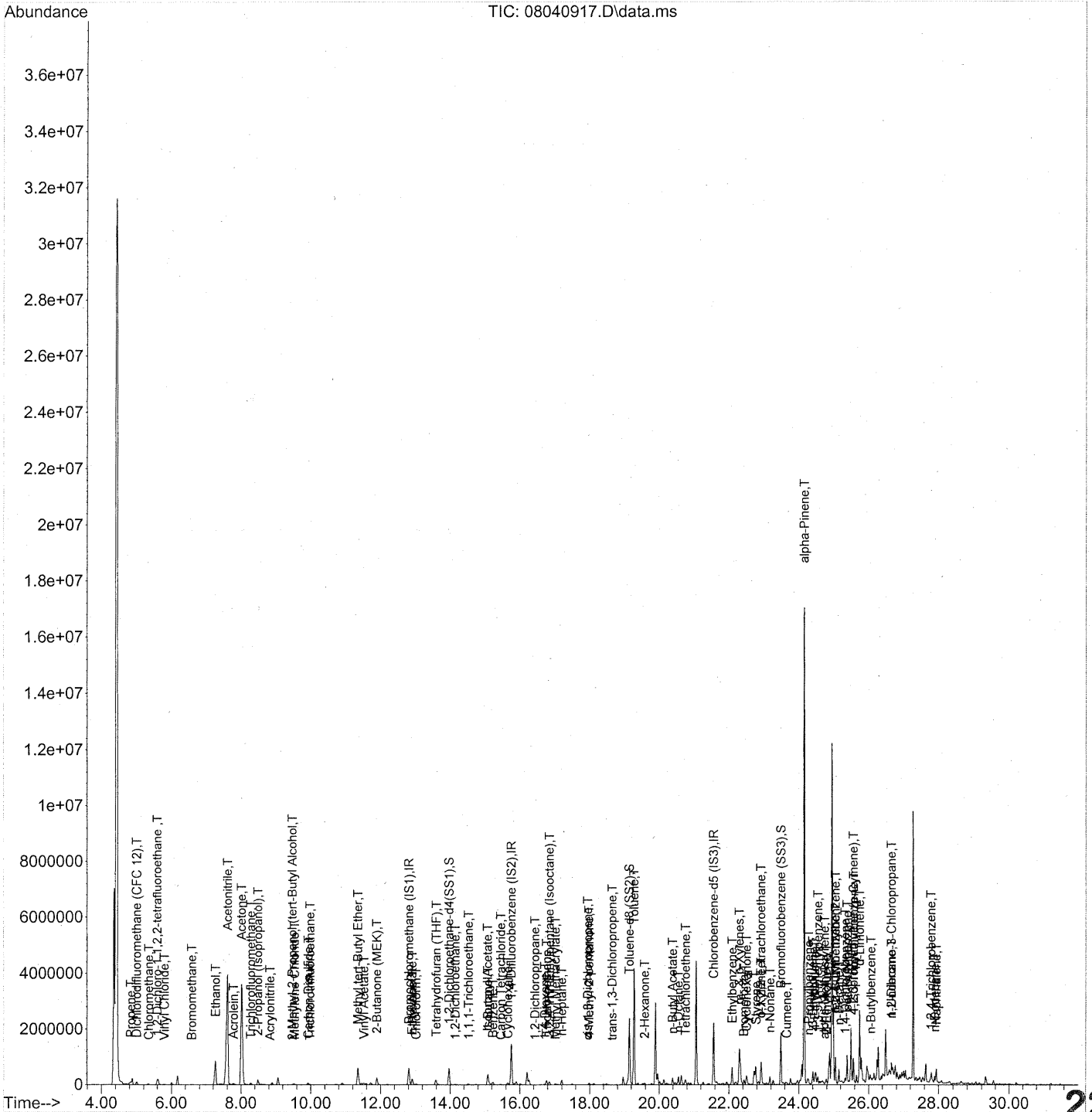
Verified By: _____

Date: 8/12/09

228

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040917.D
Acq On : 4 Aug 2009 19:00
Operator : EM
Sample : P0902624-005 (1000ml)
Misc : Environmental H & E 99445
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:14:05 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445 ✓
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:14:05 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	329526	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1696490	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	878912	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	584332	25.064	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	100.24%	
57) Toluene-d8 (SS2)	19.15	98	2040239	23.464	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	93.84%	
73) Bromofluorobenzene (SS3)	23.49	174	643299	24.608	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	98.44%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	37213m	1.790	ng	
3) Dichlorodifluoromethan...	5.00	85	128845	3.106	ng	99
4) Chloromethane	5.35	50	19120	0.615	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1644	0.070	ng	# 43
6) Vinyl Chloride	5.80	62	5447	0.164	ng	94
7) 1,3-Butadiene	6.09	54	244	N.D.		
8) Bromomethane	6.58	94	9452	0.484	ng	99
9) Chloroethane	6.93	64	219	N.D.		
10) Ethanol	7.27	45	1504198m	109.049	ng	
11) Acetonitrile	7.61	41	7292944	233.824	ng	See Dil 100
12) Acrolein	7.79	56	59182	5.885	ng	97
13) Acetone	8.01	58	2415676	153.969	ng	97
14) Trichlorofluoromethane	8.28	101	61261	1.695	ng	96
15) 2-Propanol (Isopropanol)	8.49	45	327010m	7.921	ng	
16) Acrylonitrile	8.83	53	4429	0.210	ng	# 69
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.47	59	19422	0.418	ng	# 79
19) Methylene Chloride	9.53	84	3704	0.178	ng	97
20) 3-Chloro-1-propene (Al...	9.65	41	103	N.D.		
21) Trichlorotrifluoroethane	9.98	151	7039	0.429	ng	93
22) Carbon Disulfide	9.93	76	132659	1.875	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.37	63	1311	N.D.		
25) Methyl tert-Butyl Ether	11.34	73	8273	0.143	ng	TP 78
26) Vinyl Acetate	11.53	86	23678	6.327	ng	# 52
27) 2-Butanone (MEK)	11.89	72	117523	9.820	ng	97
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.91	87	519	N.D.		
30) Ethyl Acetate	12.91	61	42402	5.409	ng	97
31) n-Hexane	12.91	57	22913	0.632	ng	97

230

com 8/6/09

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:14:05 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	13.02	83	25012	0.760 ng	98
34) Tetrahydrofuran (THF)	13.60	72	27295	2.421 ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	14.14	62	8315	0.315 ng	93
38) 1,1,1-Trichloroethane	14.53	97	22126	0.711 ng	98
39) Isopropyl Acetate	15.07	61	2312	0.187 ng #	1
40) 1-Butanol	15.08	56	350087	16.608 ng	79
41) Benzene	15.23	78	115119	1.272 ng	98
42) Carbon Tetrachloride	15.46	117	13386	0.504 ng	99
43) Cyclohexane	15.65	84	35626	1.053 ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	
45) 1,2-Dichloropropane	16.44	63	2390	0.125 ng	94
46) Bromodichloromethane	0.00	83	0	N.D. d	
47) Trichloroethene	16.77	130	67412	2.916 ng	98
48) 1,4-Dioxane	16.73	88	1318	0.087 ng	91
49) 2,2,4-Trimethylpentane...	16.85	57	116297	1.327 ng	97
50) Methyl Methacrylate	17.02	100	6835	0.806 ng	98
51) n-Heptane	17.20	71	54040	2.467 ng	99
52) cis-1,3-Dichloropropene	17.95	75	2677	0.084 ng	85
53) 4-Methyl-2-pentanone	17.99	58	21674	1.265 ng	98
54) trans-1,3-Dichloropropene	18.65	75	1762	0.063 ng #	43
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d	
58) Toluene	19.28	91	3794362	35.648 ng	100
59) 2-Hexanone	19.59	43	48738	1.065 ng	81
60) Dibromochloromethane	19.82	129	128	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.39	43	188162	3.697 ng	94
63) n-Octane	20.56	57	55543	2.670 ng	94
64) Tetrachloroethene	20.76	166	57561	2.045 ng	99
65) Chlorobenzene	0.00	112	0	N.D. d	
66) Ethylbenzene	22.09	91	569047	4.916 ng	99
67) m- & p-Xylenes	22.30	91	1258367	13.184 ng	100
68) Bromoform	22.43	173	1121	0.053 ng #	60
69) Styrene	22.77	104	256149	3.639 ng	99
70) o-Xylene	22.92	91	448879	4.721 ng	99
71) n-Nonane	23.17	43	107192	2.309 ng	97
72) 1,1,2,2-Tetrachloroethane	22.92	83	3688	0.093 ng #	1
74) Cumene	23.65	105	29344	0.232 ng	97
75) alpha-Pinene	24.16	93	7810200	129.420 ng <i>See Dil.</i>	100
76) n-Propylbenzene	24.28	91	119835	0.788 ng	84
77) 3-Ethyltoluene	24.40	105	292611	2.445 ng	98
78) 4-Ethyltoluene	24.46	105	143507	1.195 ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	115575	1.157 ng	99

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:14:05 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

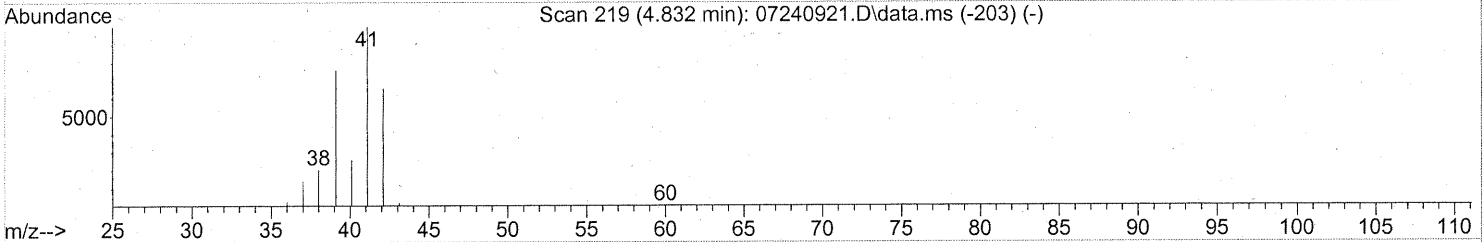
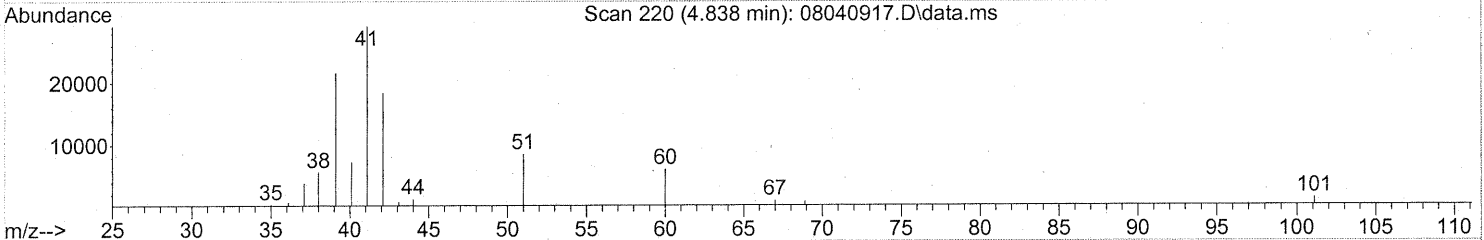
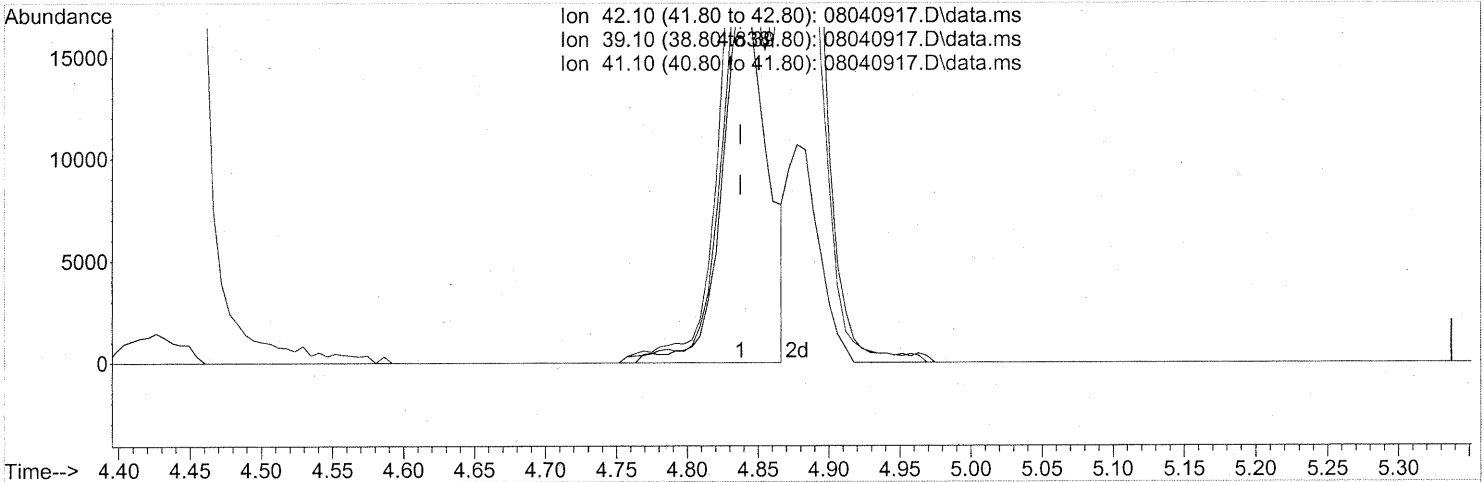
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	4824	0.086	ng	# 36
81) 2-Ethyltoluene	24.79	105	125500	1.001	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	528245	4.729	ng	90
83) n-Decane	25.15	57	191811	3.555	ng	96
84) Benzyl Chloride	25.25	91	1924	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.33	146	27118	0.444	ng	98
87) sec-Butylbenzene	25.39	105	15411	0.110	ng	89
88) 4-Isopropyltoluene (p-...	25.56	119	360104	2.558	ng	97
89) 1,2,3-Trimethylbenzene	25.57	105	158275	1.392	ng	86
90) 1,2-Dichlorobenzene	25.74	146	942	N.D.		
91) d-Limonene	25.74	68	672798	15.161	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.65	157	990	0.058	ng	# 1
93) n-Undecane	26.65	57	280502	5.077	ng	85
94) 1,2,4-Trichlorobenzene	27.79	180	2015	0.051	ng	# 84
95) Naphthalene	27.94	128	380586	2.777	ng	99
96) n-Dodecane	27.89	57	80360	1.361	ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	170138	5.299	ng	97
99) tert-Butylbenzene	25.05	119	64757	0.574	ng	# 54
100) n-Butylbenzene	26.06	91	61309	0.551	ng	# 60

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(2) Propene (T)
 4.838min (-0.000) 1.92ng
 response 39862

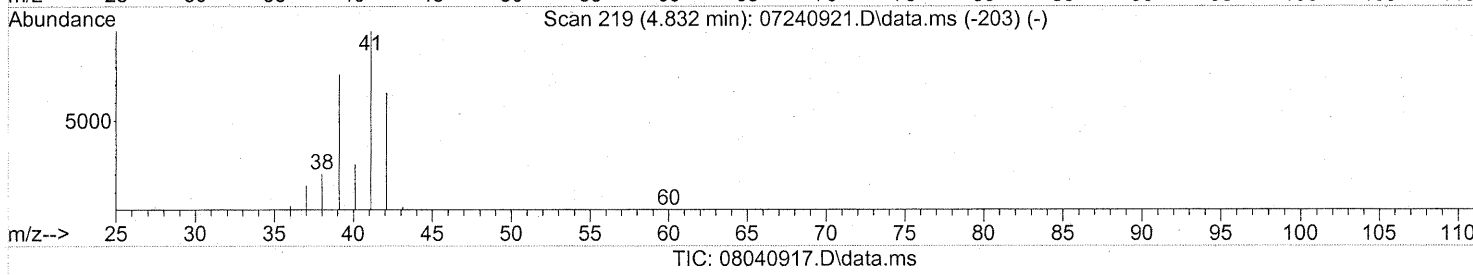
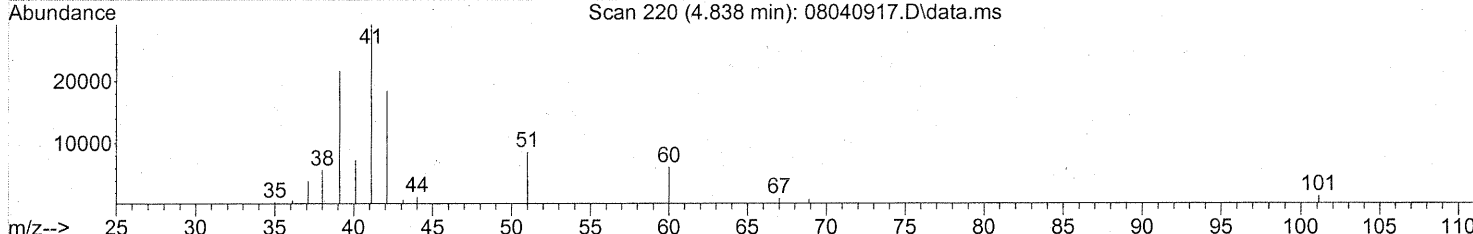
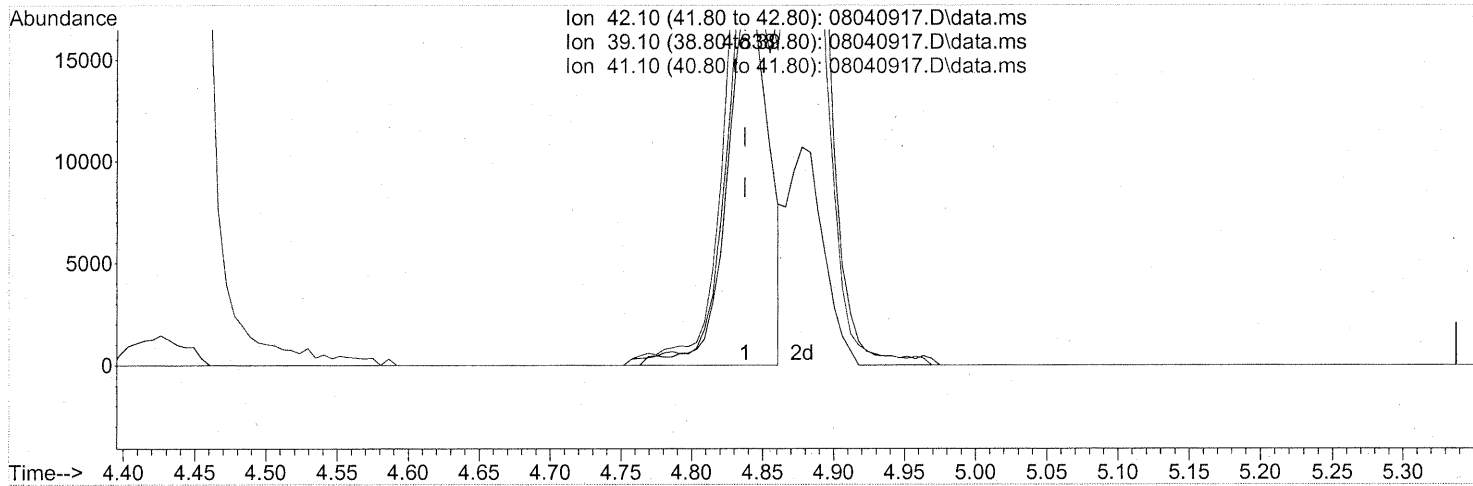
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	101.31
41.10	152.70	151.13
0.00	0.00	0.00

181

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.838min (-0.000) 1.79ng m
 response 37213

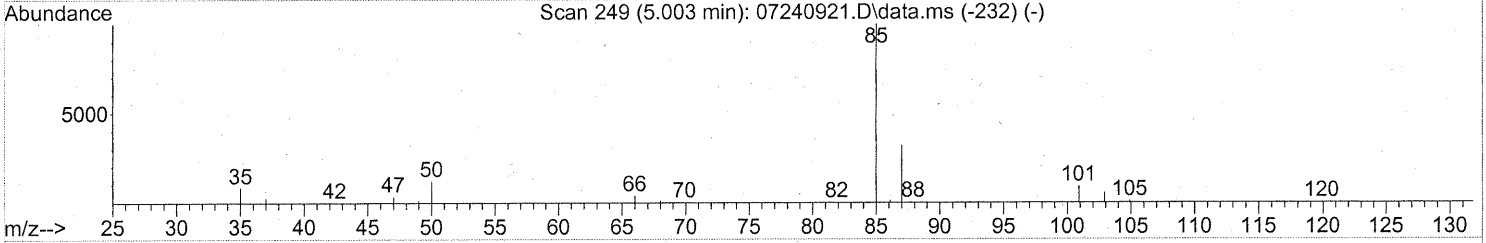
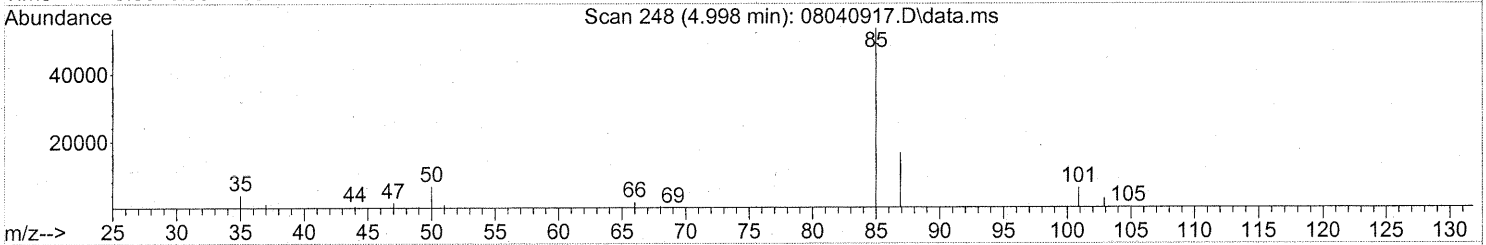
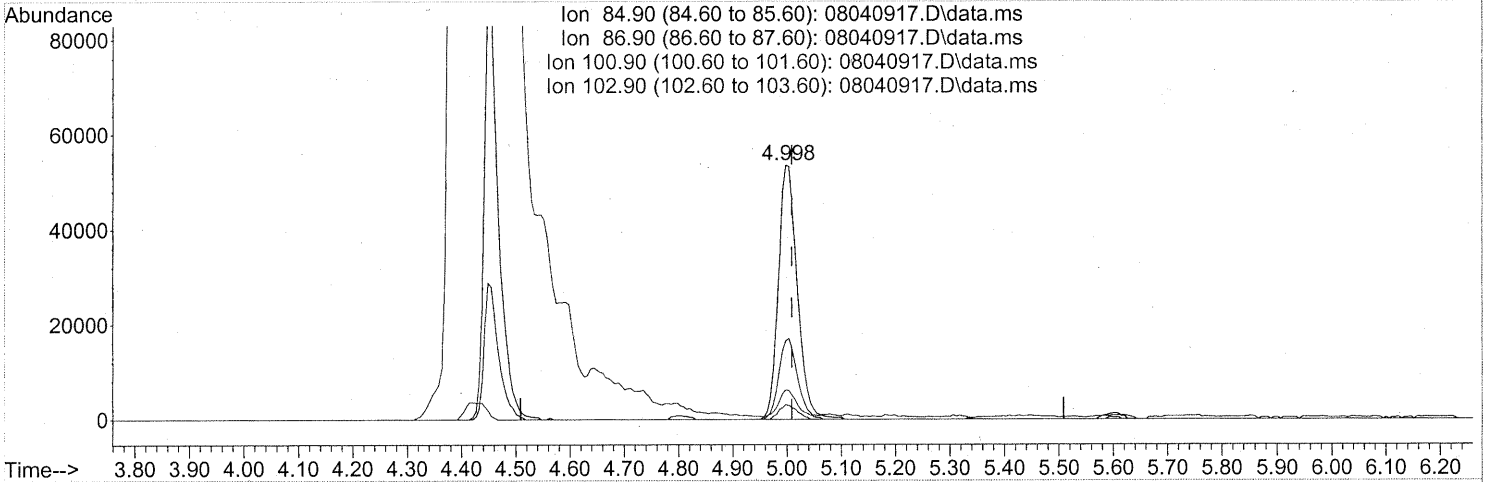
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	108.52
41.10	152.70	161.89
0.00	0.00	0.00

Handwritten notes:
 IPI → IC
 em 8/6/09
 em 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.998min (-0.011) 3.11ng

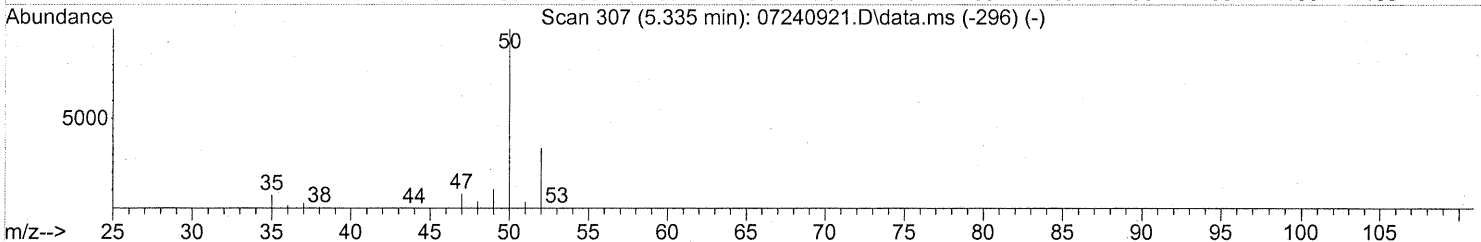
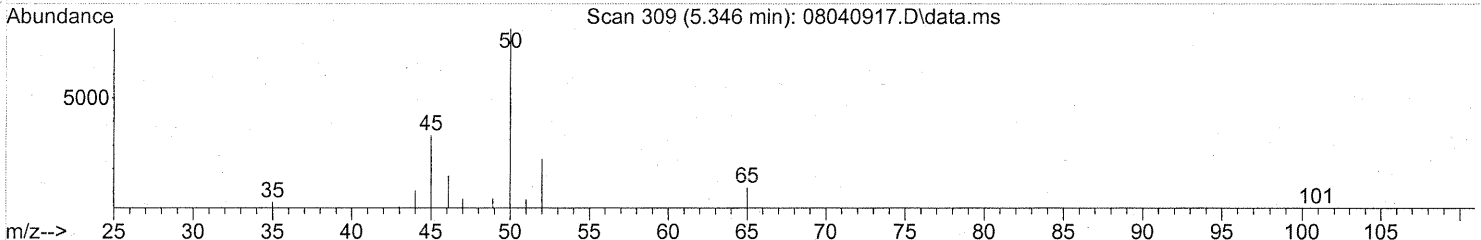
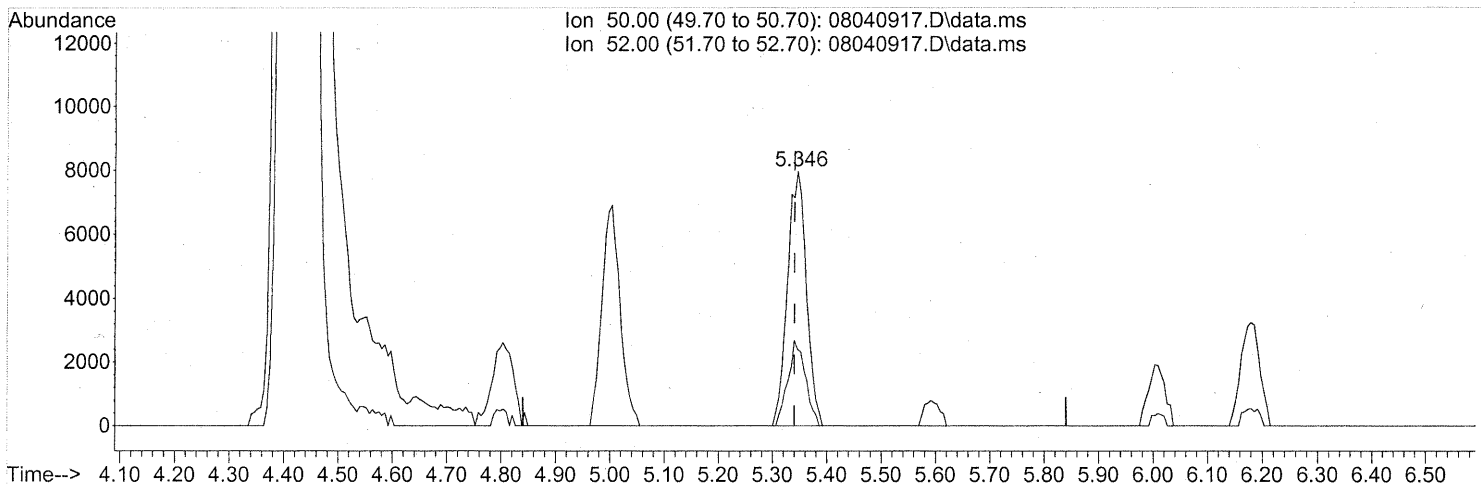
response 128845

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.48
100.90	9.10	10.05
102.90	5.50	5.36

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(4) Chloromethane (T)

5.346min (+0.006) 0.62ng

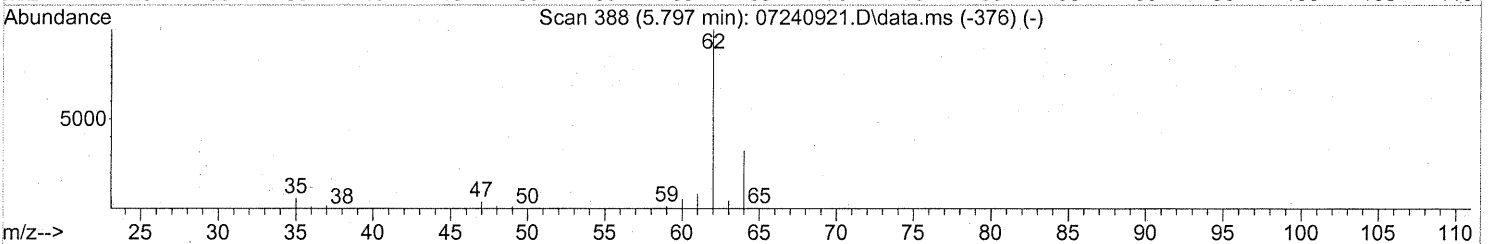
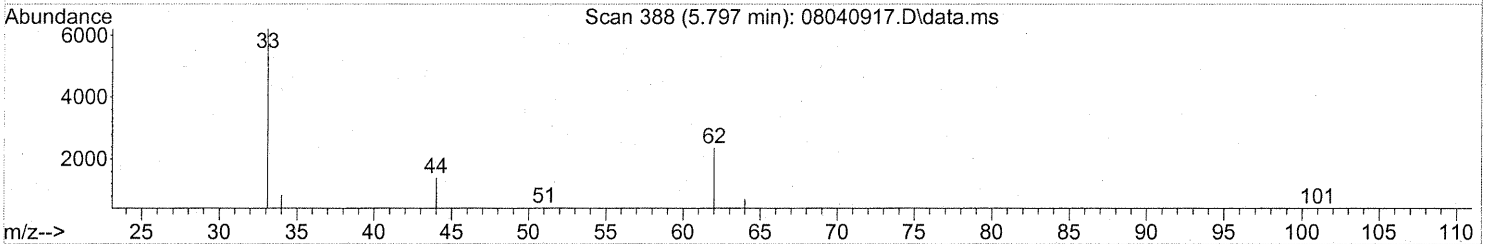
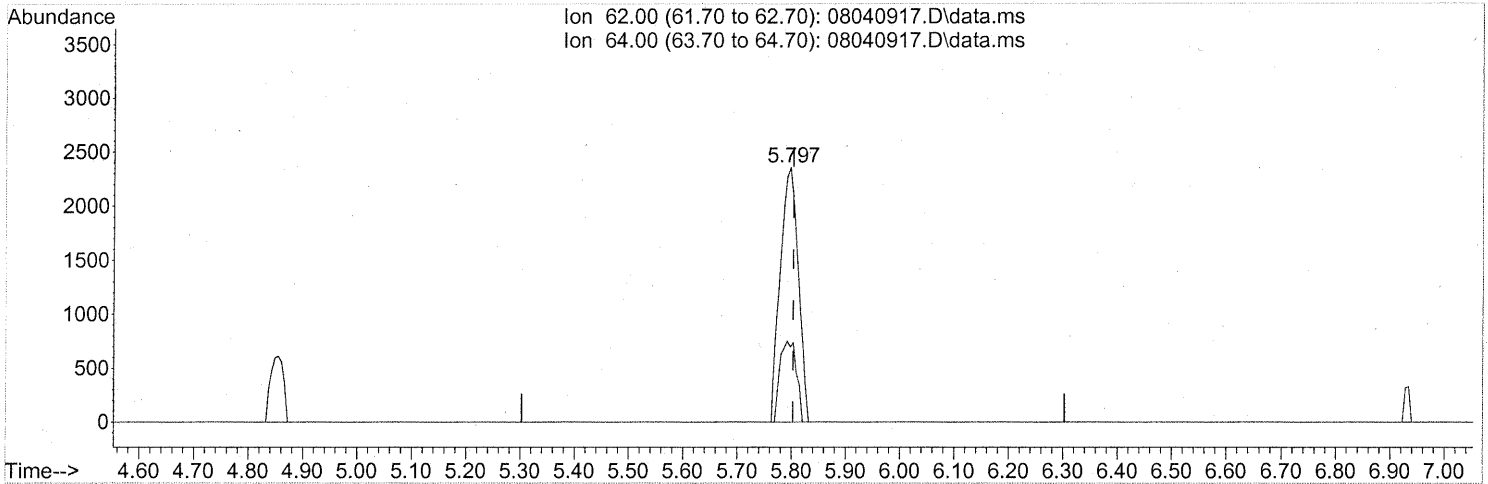
response 19120

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(6) Vinyl Chloride (T)

5.797min (-0.006) 0.16ng

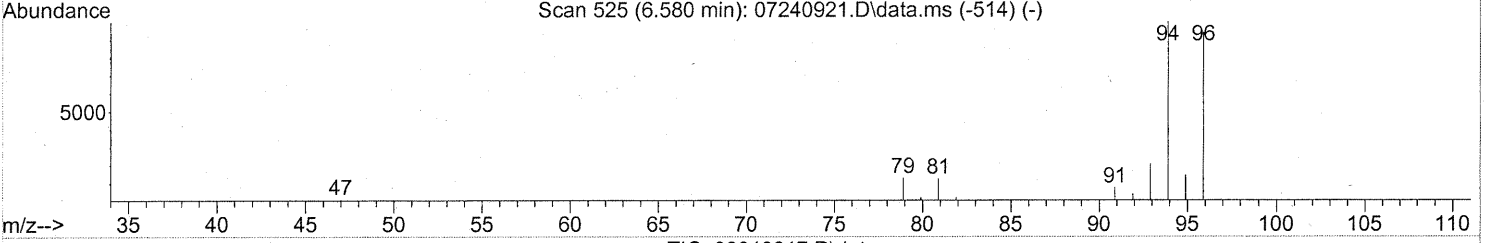
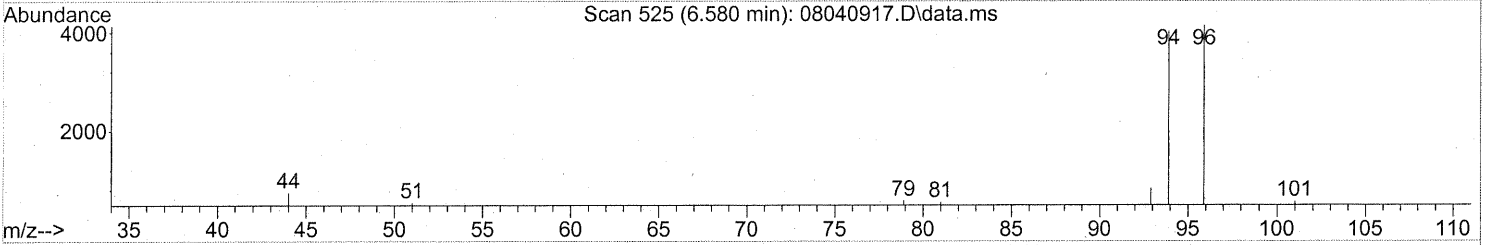
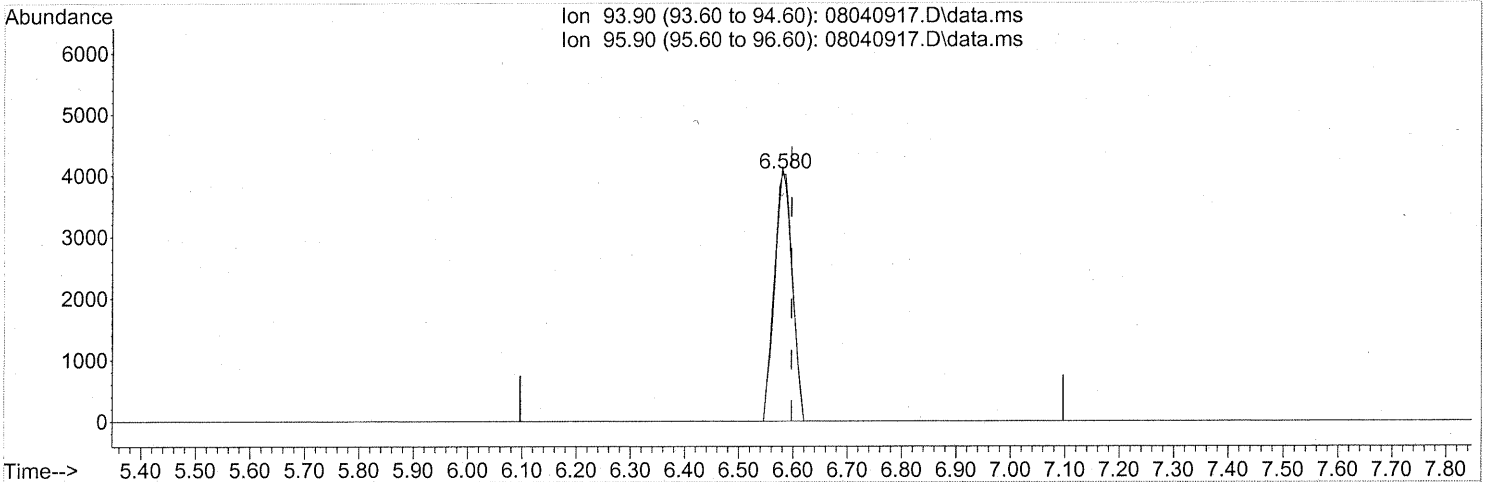
response 5447

Ion	Exp%	Act%
62.00	100	100
64.00	32.40	28.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(8) Bromomethane (T)

6.580min (-0.017) 0.48ng

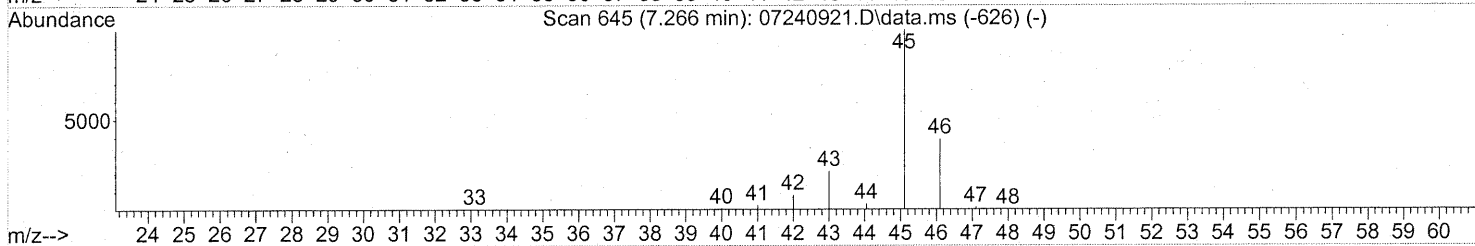
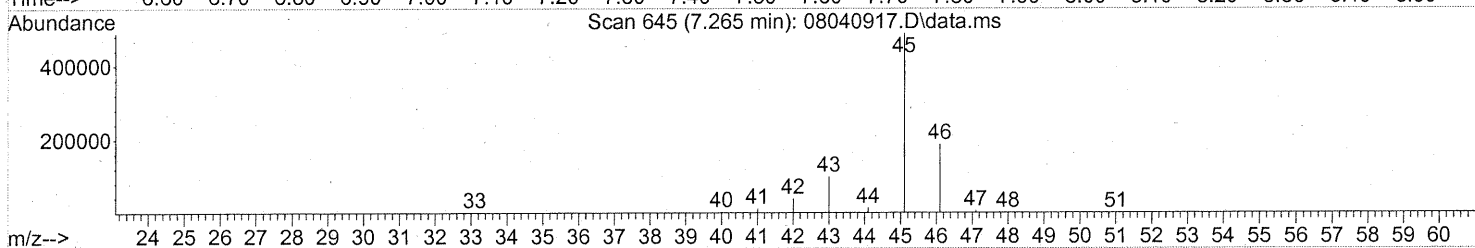
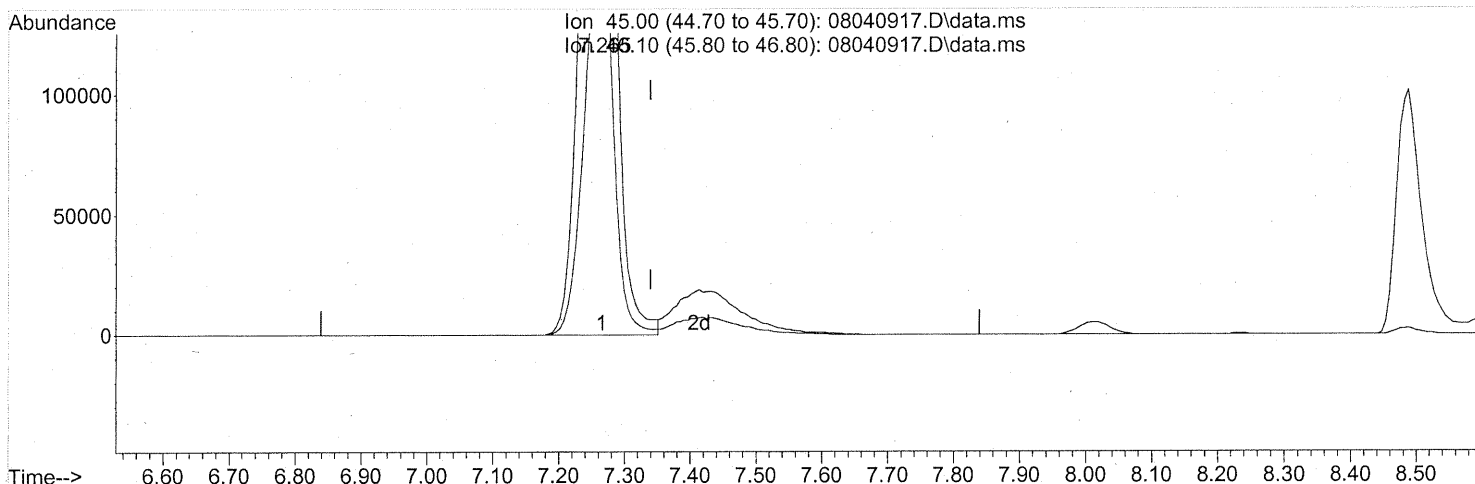
response 9452

Ion	Exp%	Act%
93.90	100	100
95.90	94.20	94.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(10) Ethanol (T)

7.265min (-0.074) 99.41ng

response 1371280

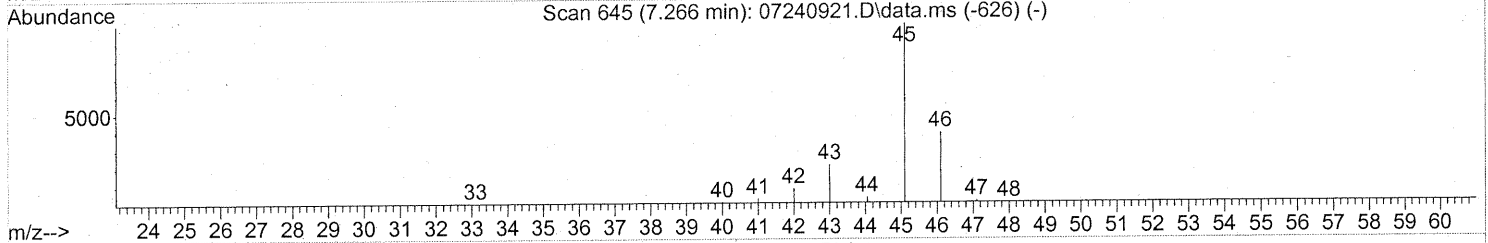
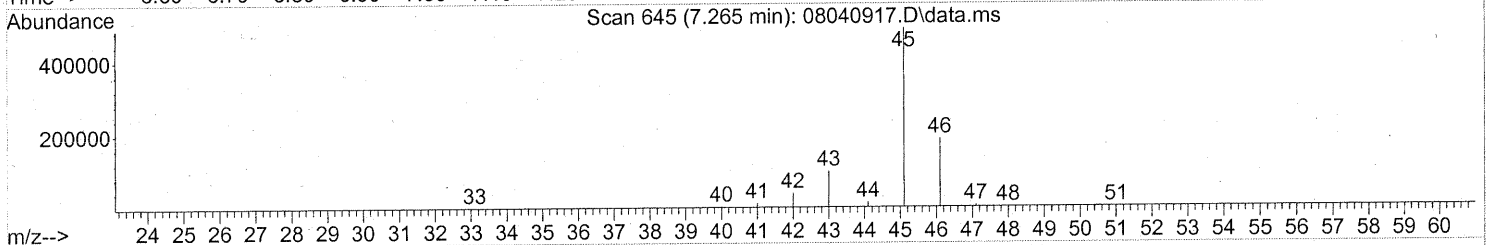
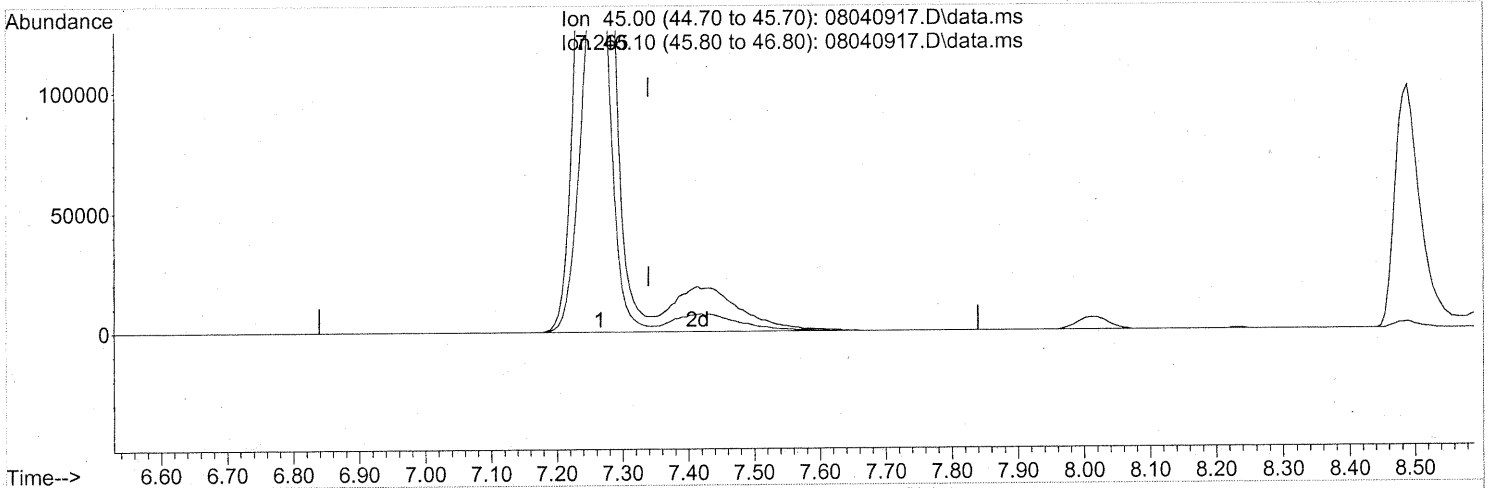
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.57
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.265min (-0.074) 109.05ng m
 response 1504198

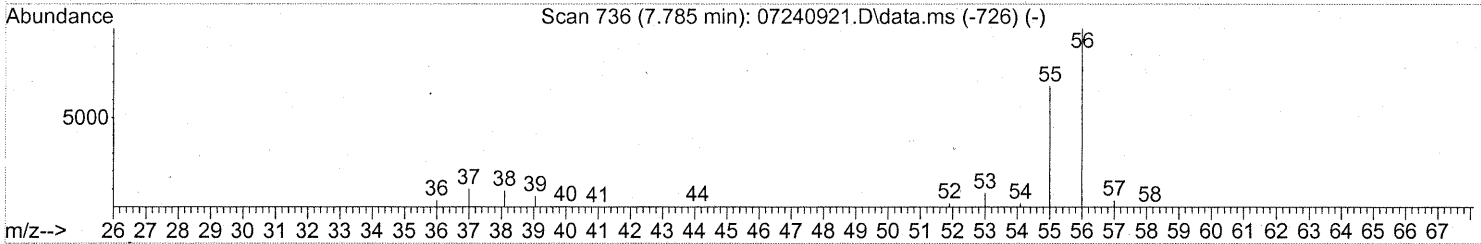
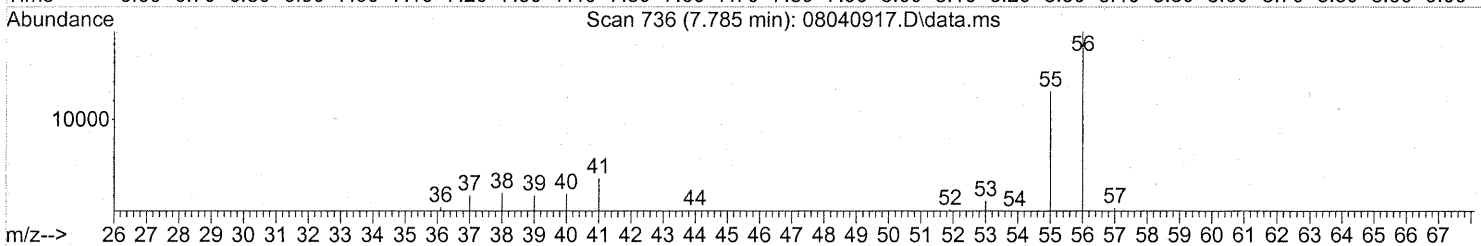
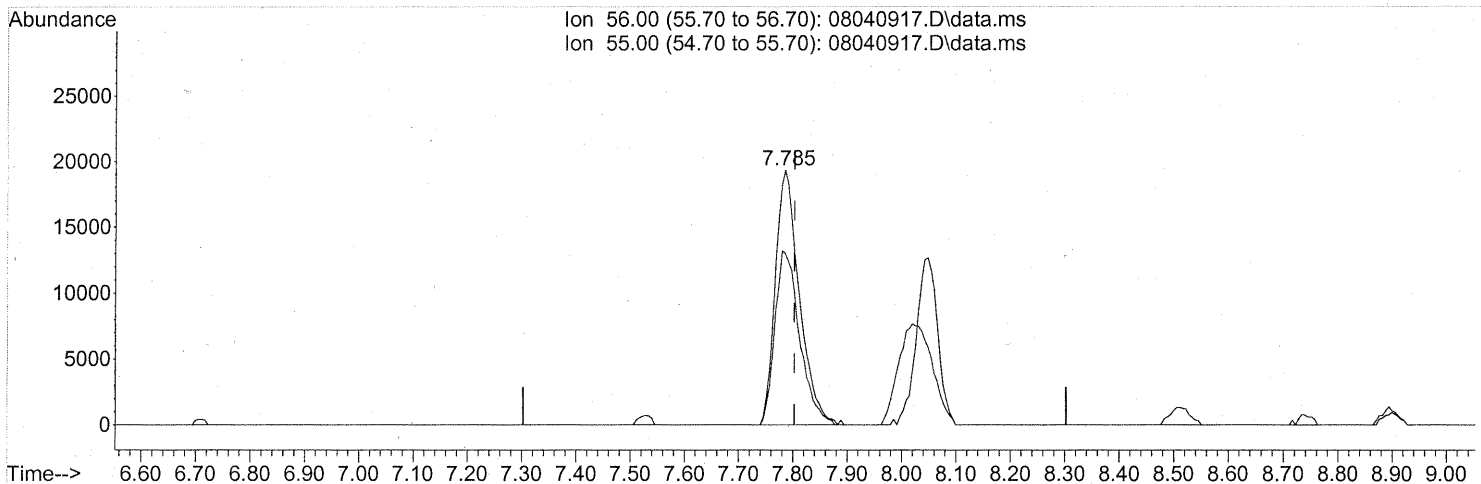
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	35.16
0.00	0.00	0.00
0.00	0.00	0.00

*PT → LC
 Cam 8/6/09
 WA 8/10/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(12) Acrolein (T)

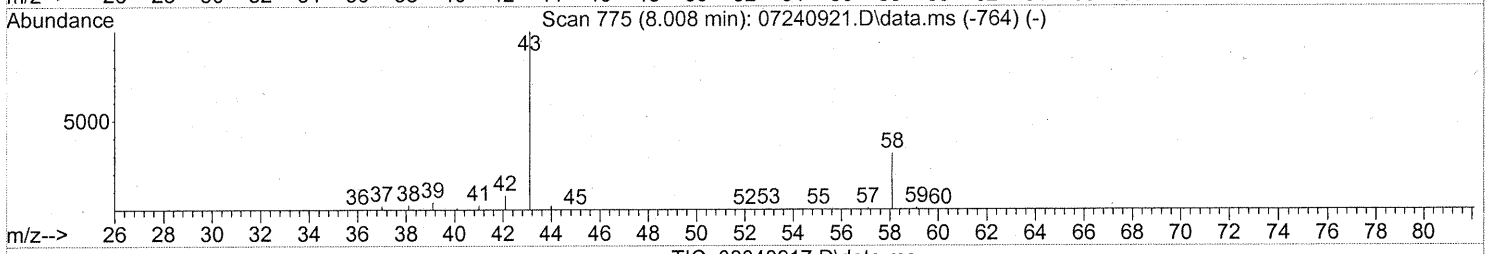
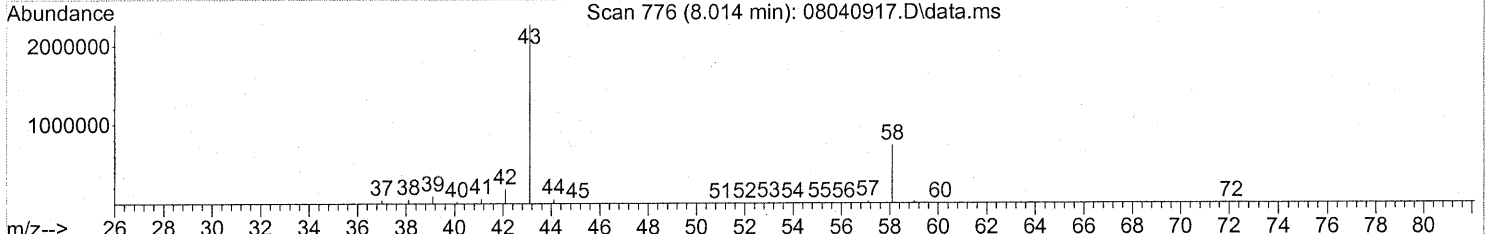
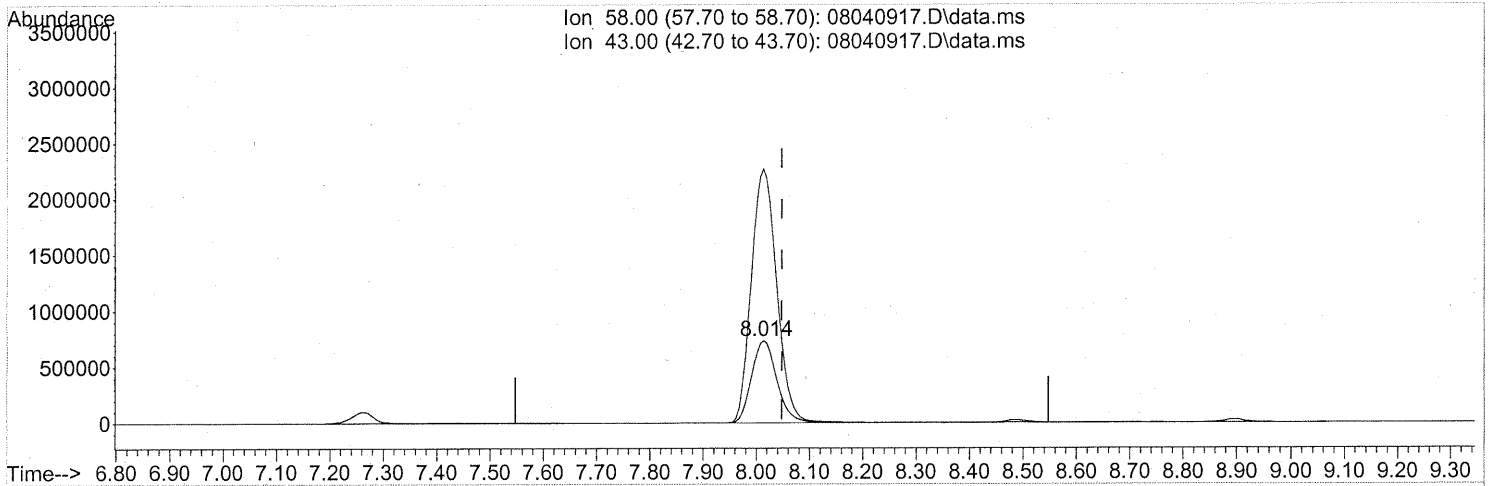
7.785min (-0.017) 5.89ng
 response 59182

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	70.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(13) Acetone (T)

8.014min (-0.034) 153.97ng

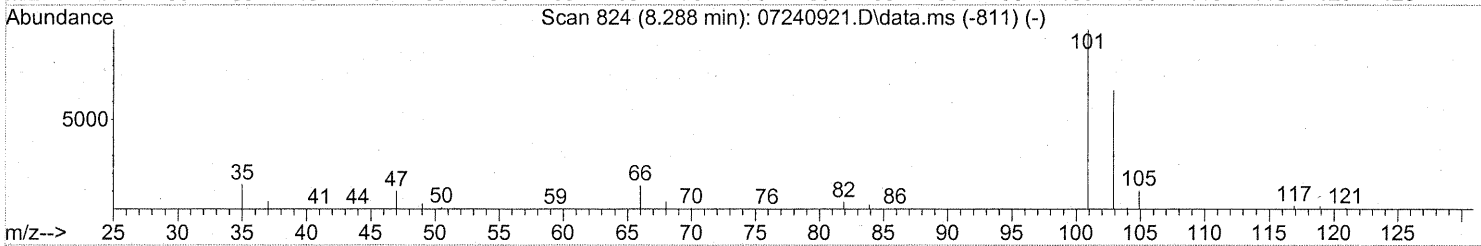
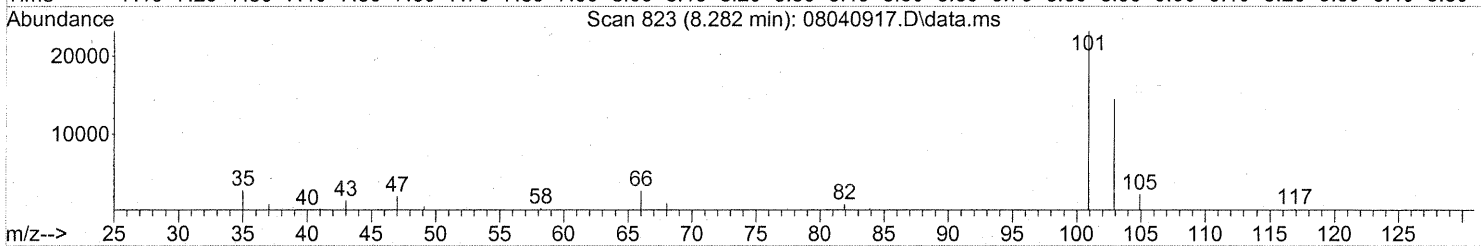
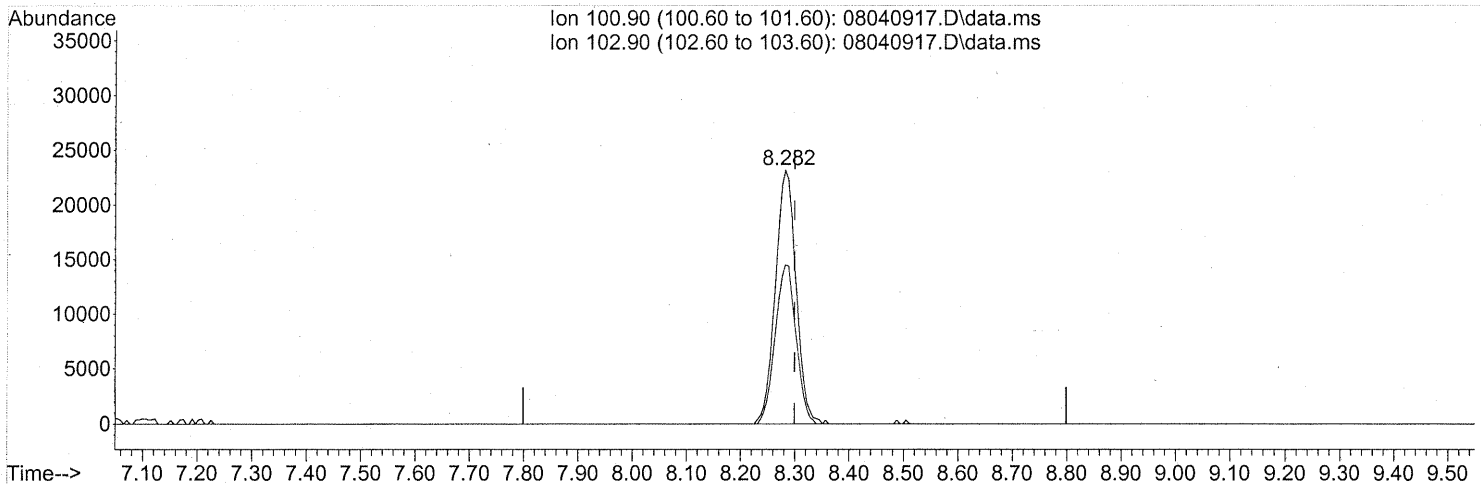
response 2415676

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	312.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.017) 1.70ng

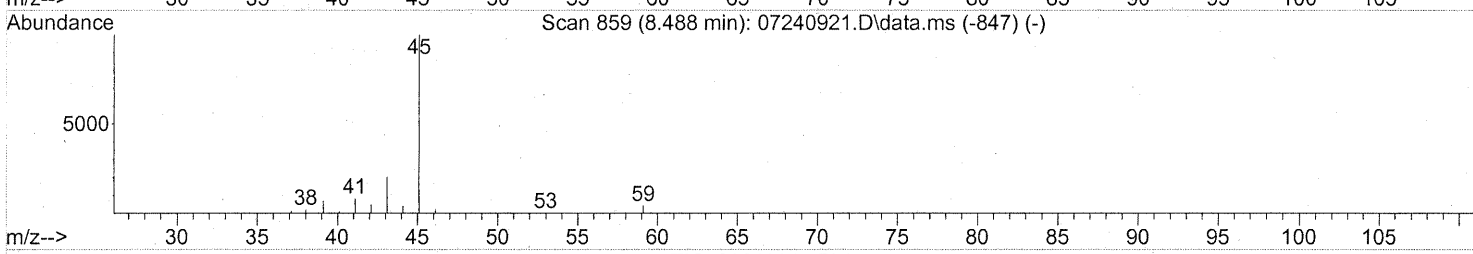
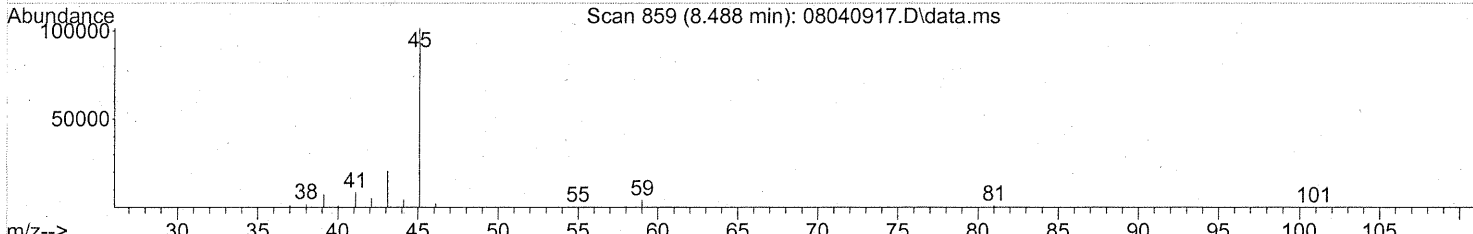
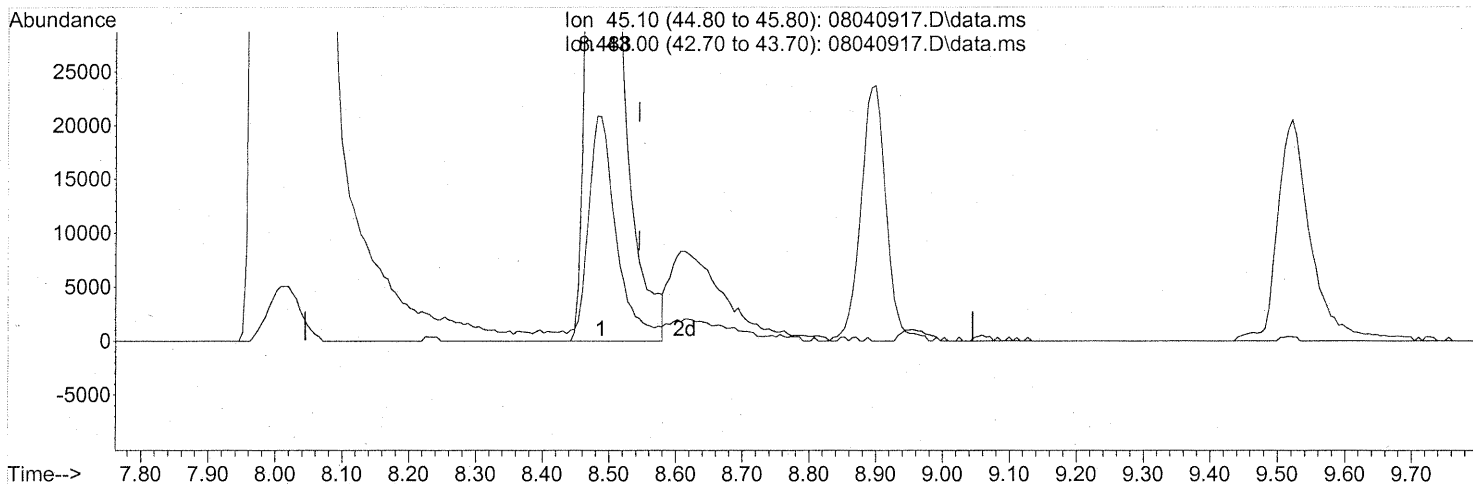
response 61261

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	62.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.488min (-0.057) 6.75ng

response 278760

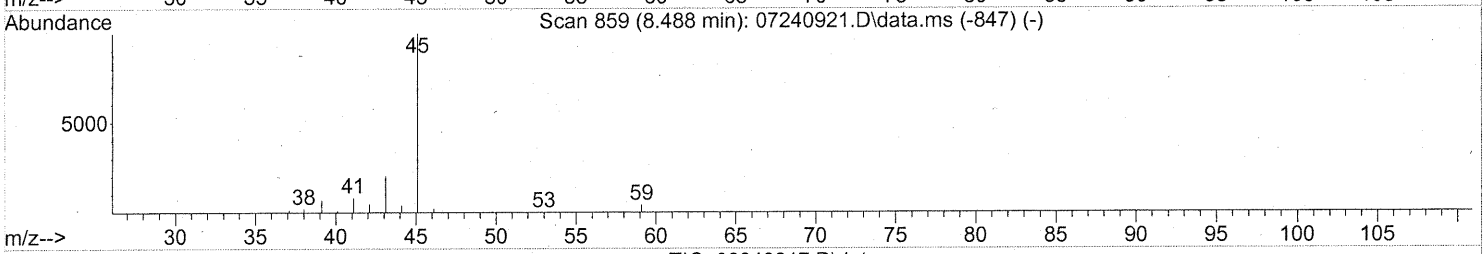
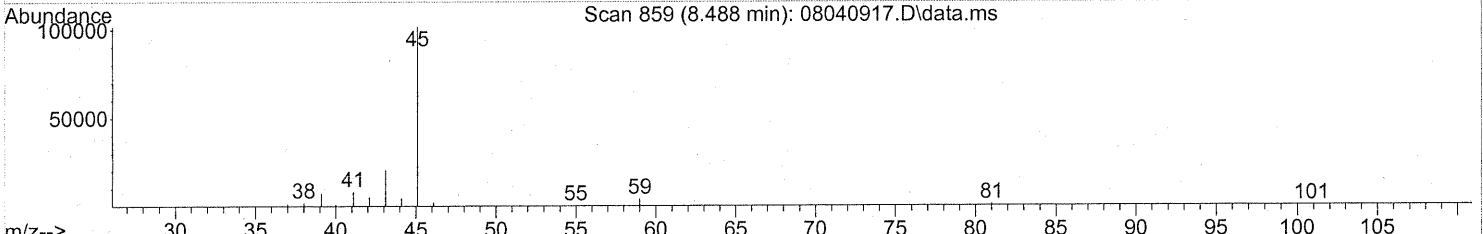
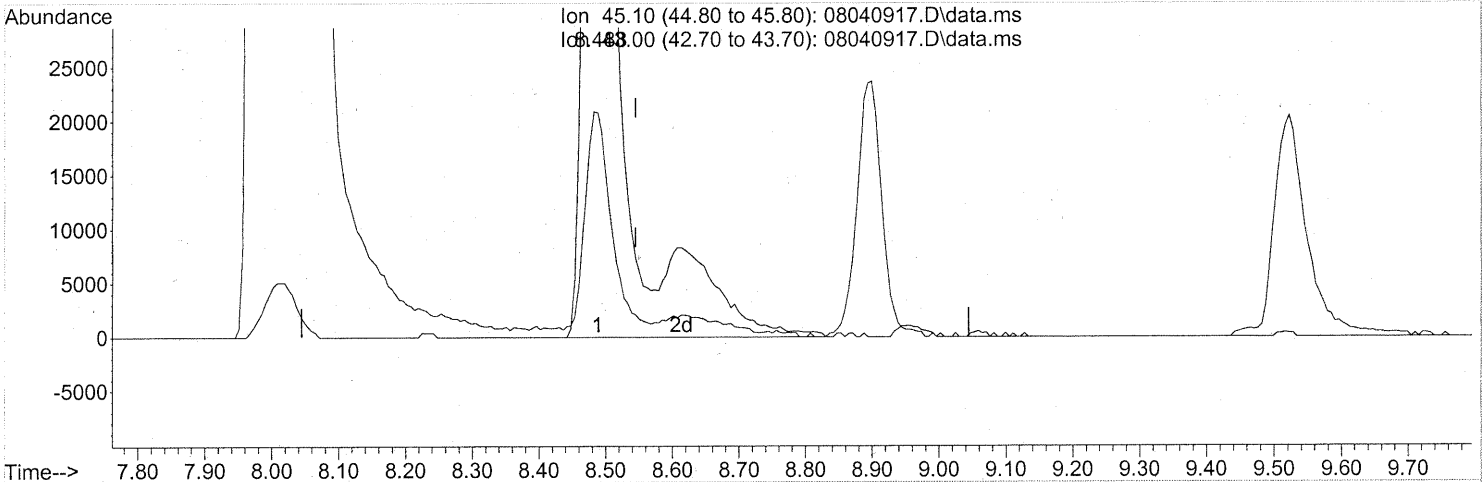
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	20.30
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.488min (-0.057) 7.92ng m

response 327010

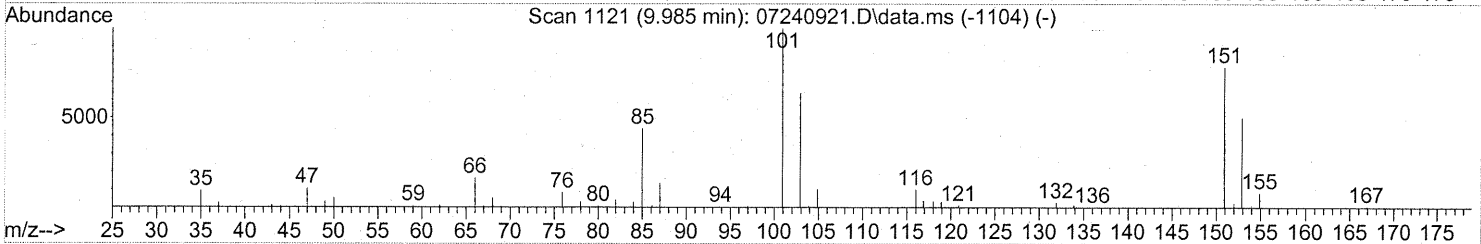
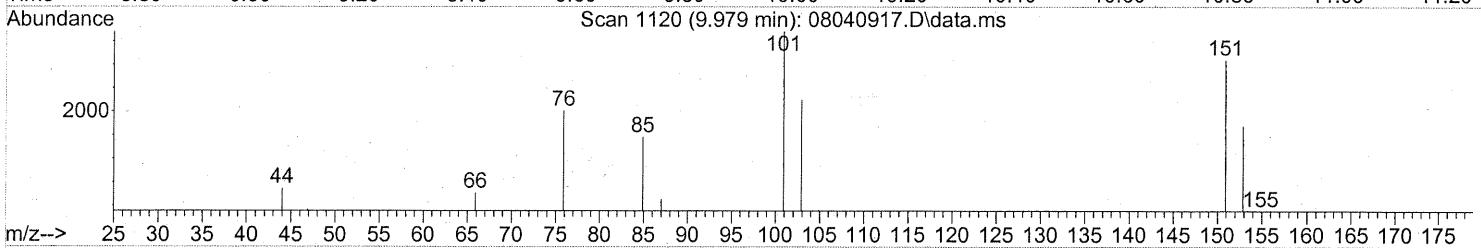
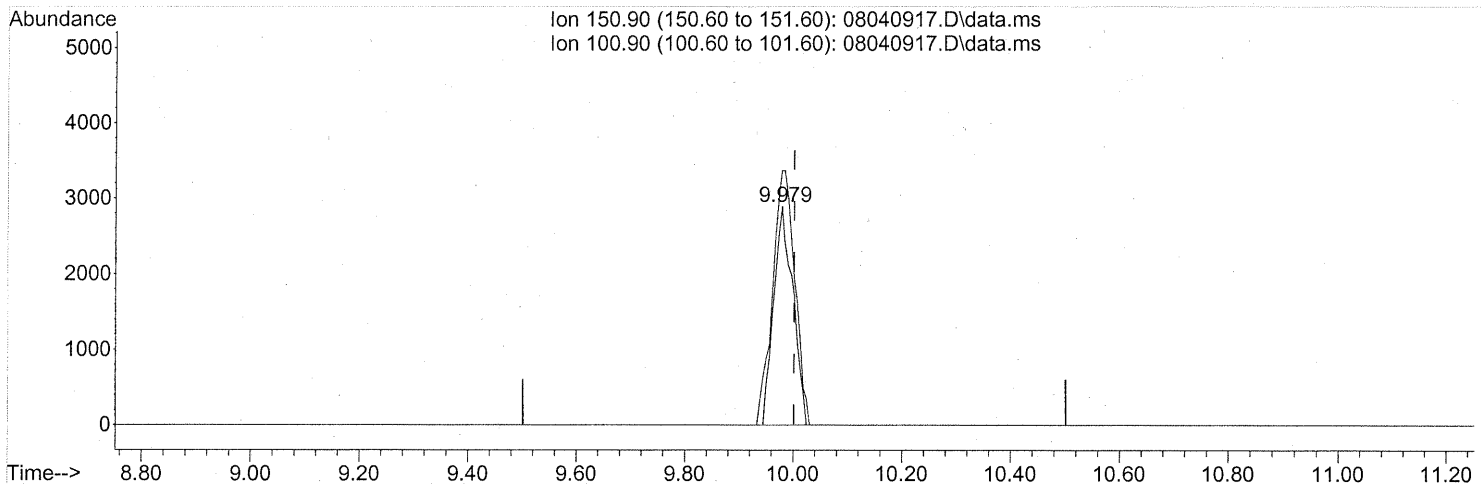
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.30
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
Em 8/6/09
11/8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.979min (-0.023) 0.43ng

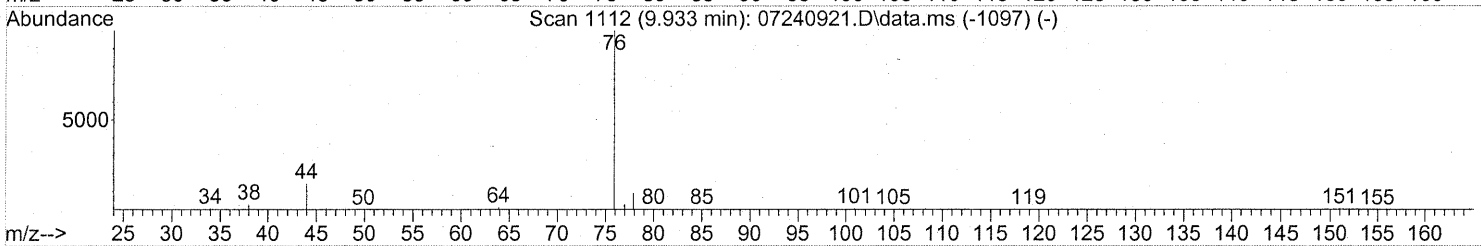
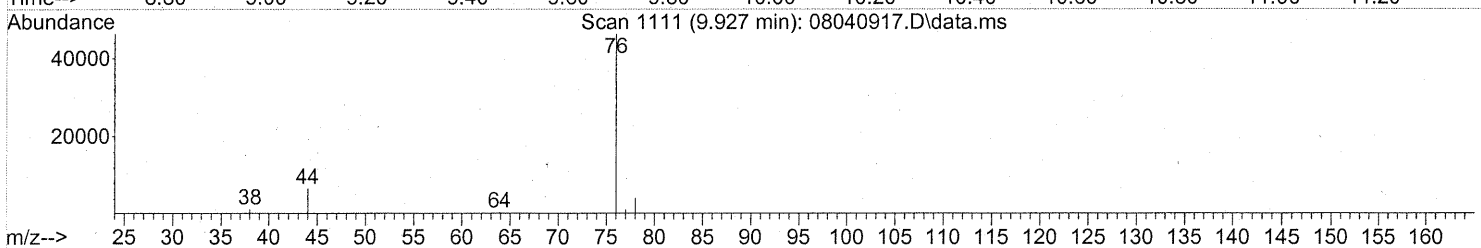
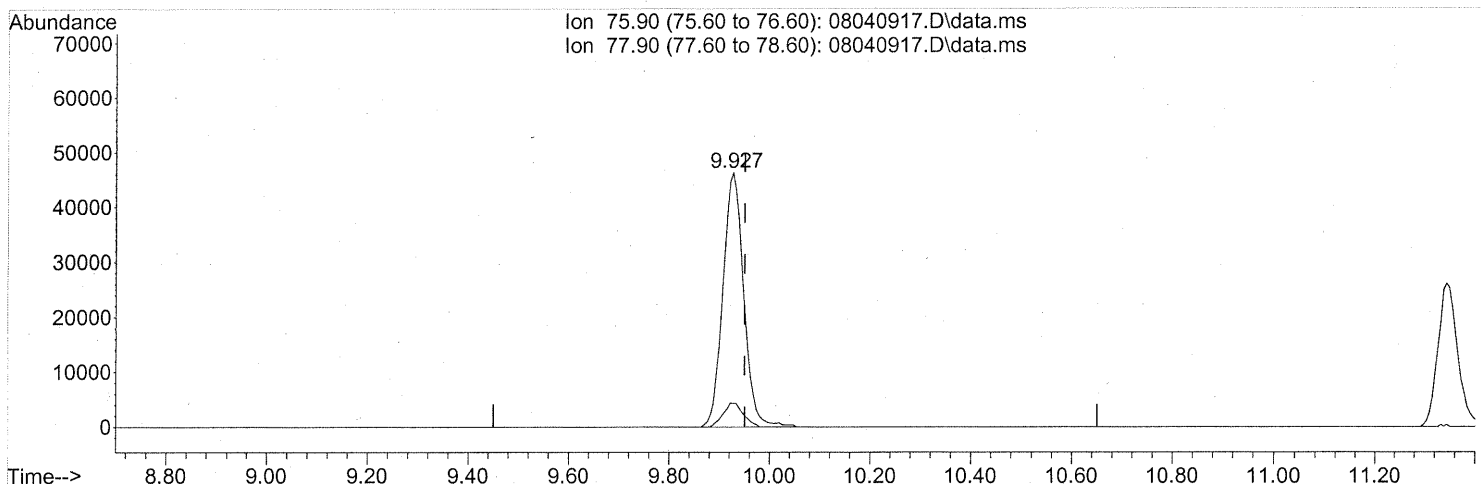
response 7039

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	135.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(22) Carbon Disulfide (T)

9.927min (-0.023) 1.87ng

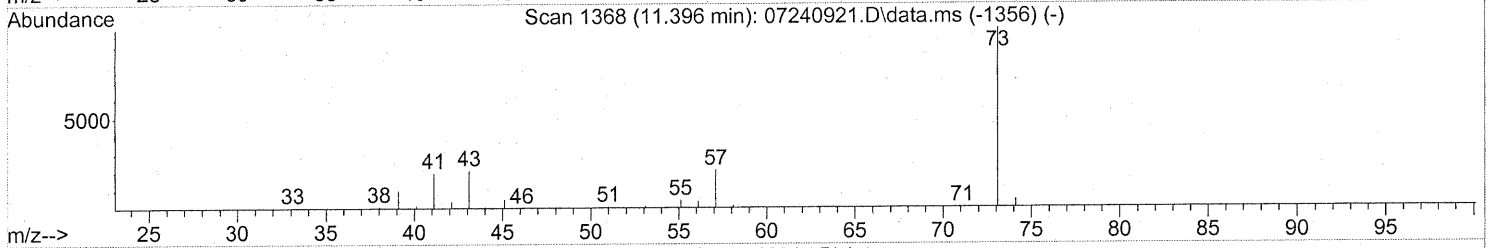
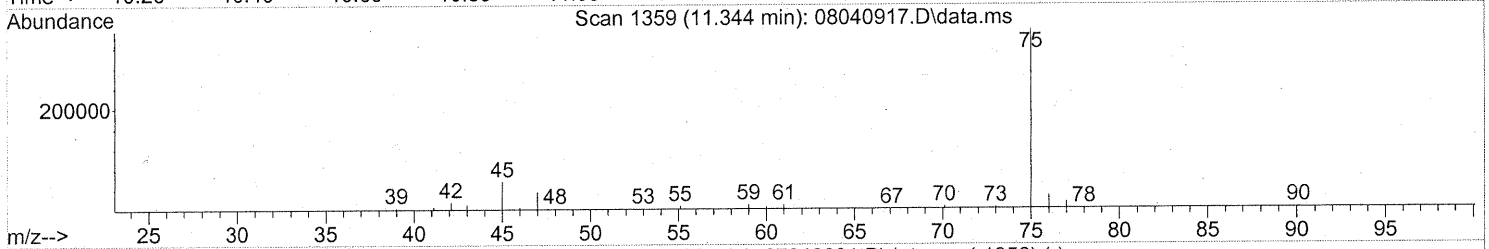
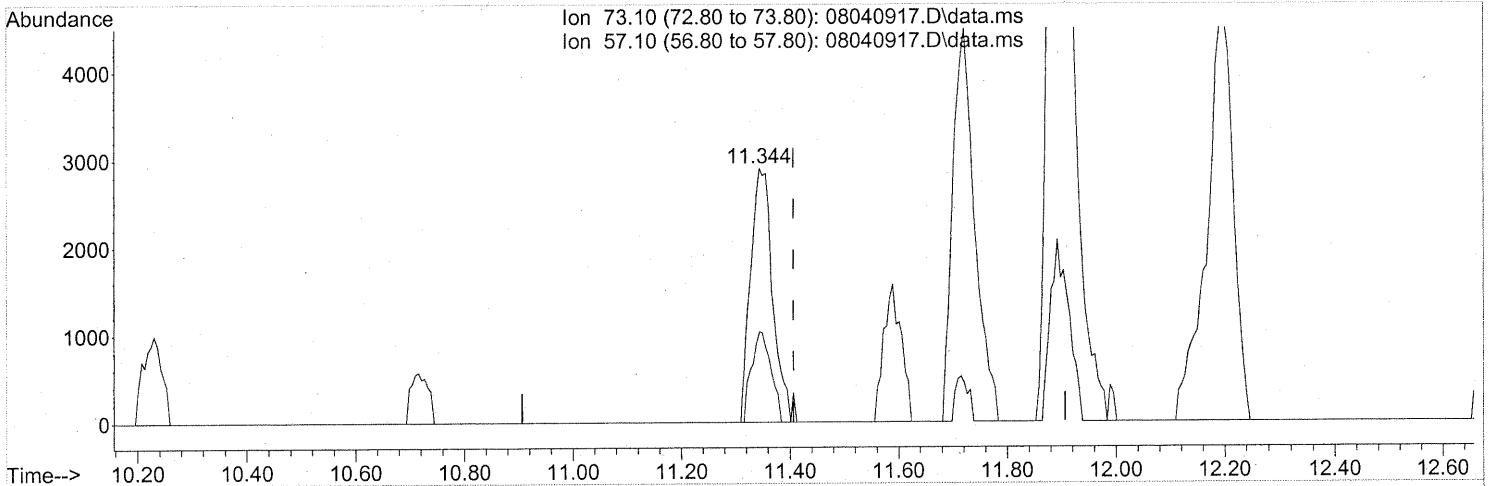
response 132659

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	9.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040917.D
Acq On : 4 Aug 2009 19:00
Operator : EM
Sample : P0902624-005 (1000ml)
Misc : Environmental H & E 99445
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:14:05 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040917.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.344min (-0.063) 0.14ng

response 8273

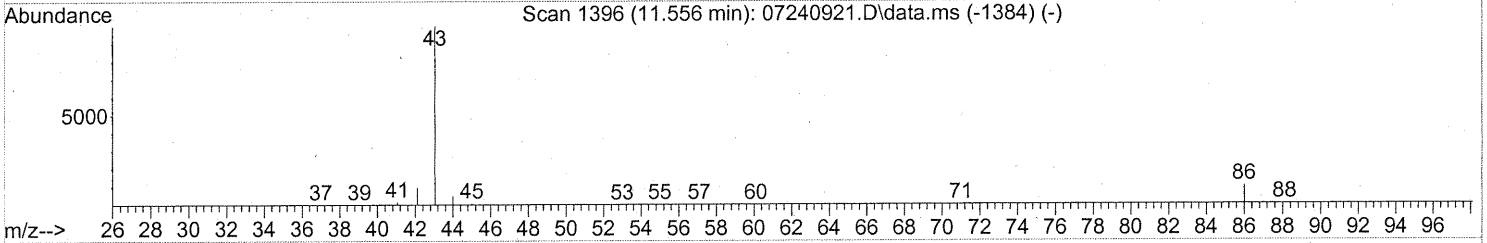
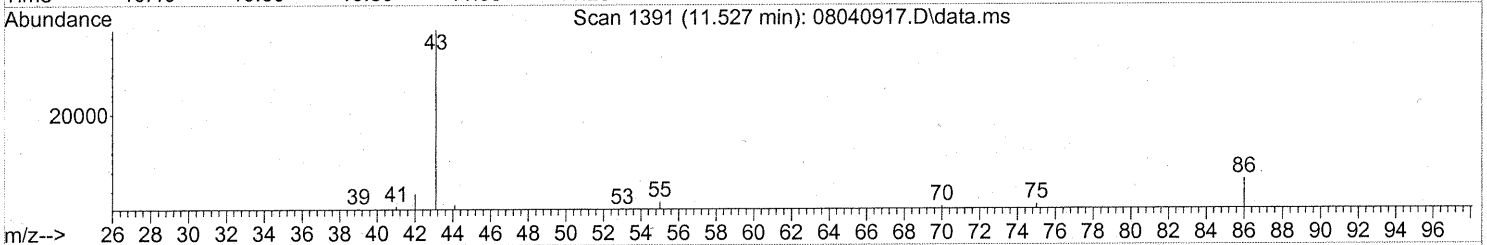
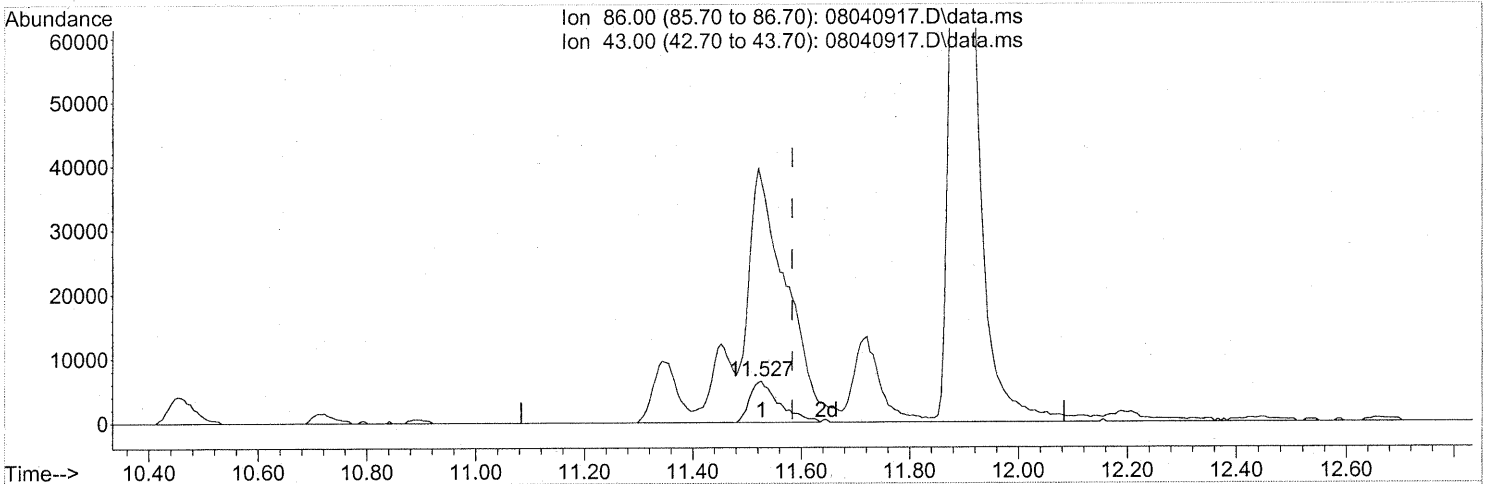
Ion	Exp%	Act%
73.10	100	100
57.10	21.10	31.26
0.00	0.00	0.00
0.00	0.00	0.00

FP
Em 8/6/09
W 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

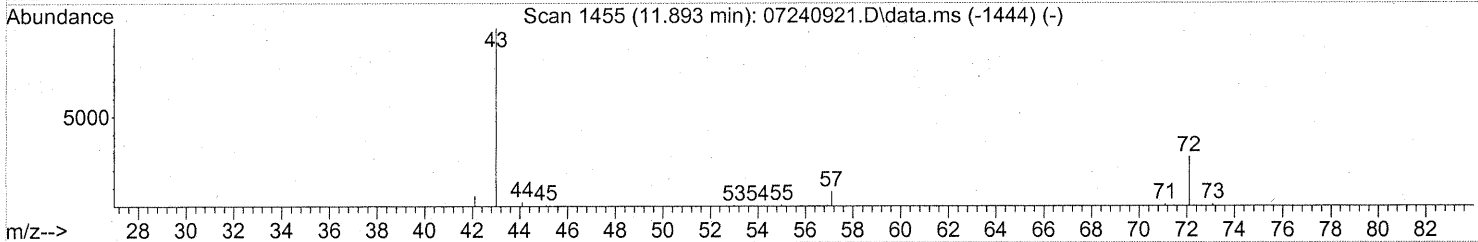
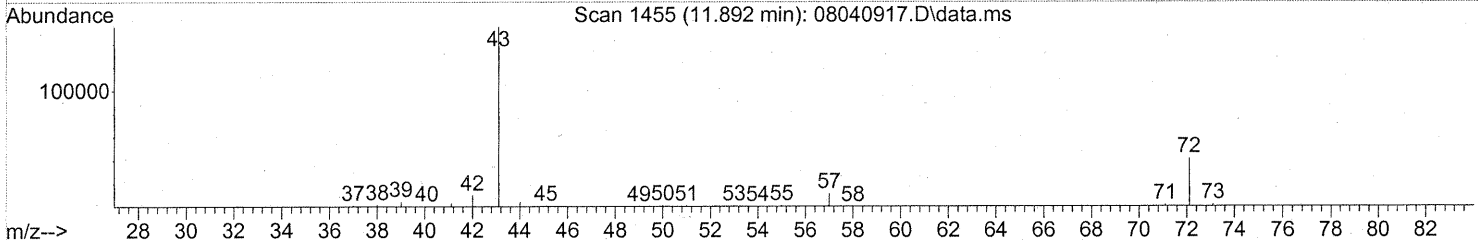
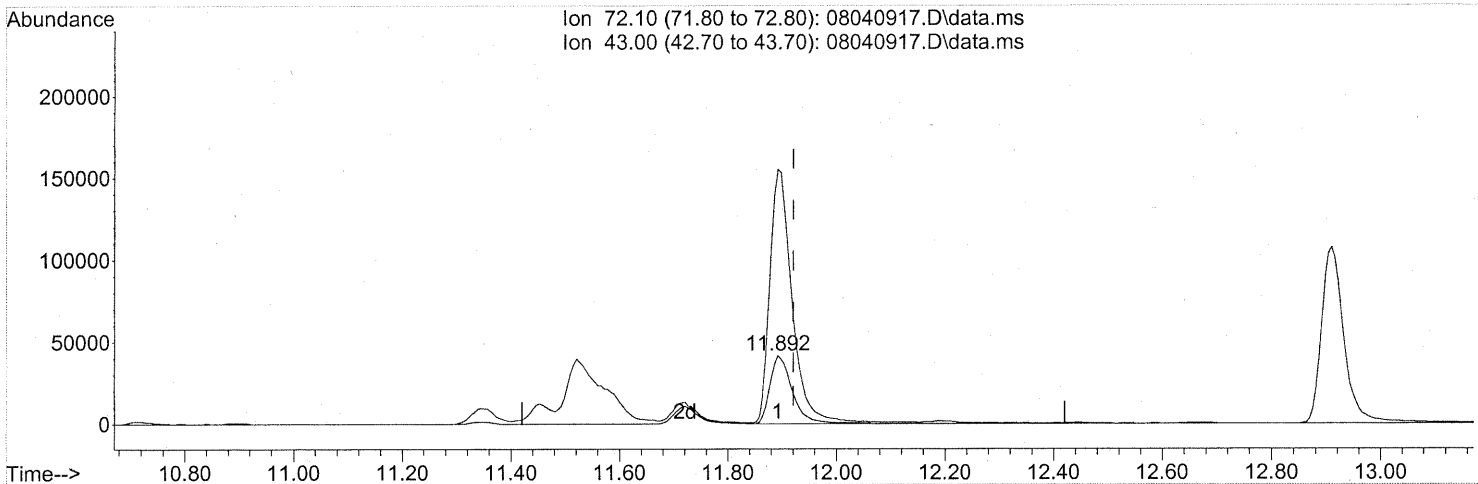
(26) Vinyl Acetate (T)
 11.527min (-0.057) 6.33ng
 response 23678

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	780.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040917.D
Acq On : 4 Aug 2009 19:00
Operator : EM
Sample : P0902624-005 (1000ml)
Misc : Environmental H & E 99445
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040917.D\data.ms

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

11.892min (-0.029) 9.82ng

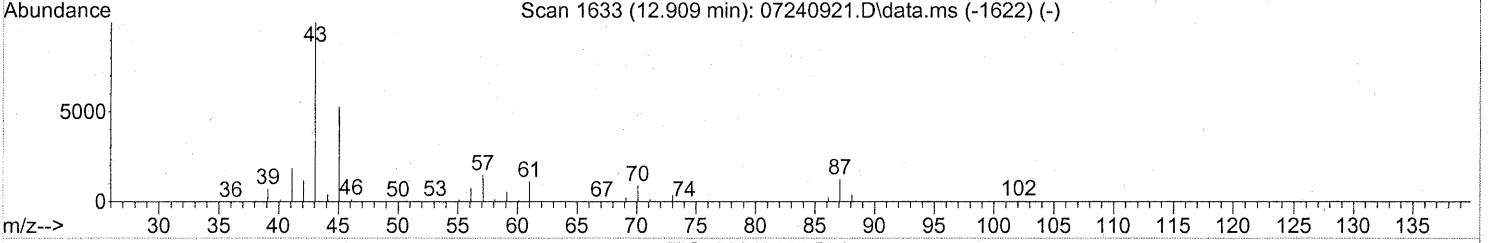
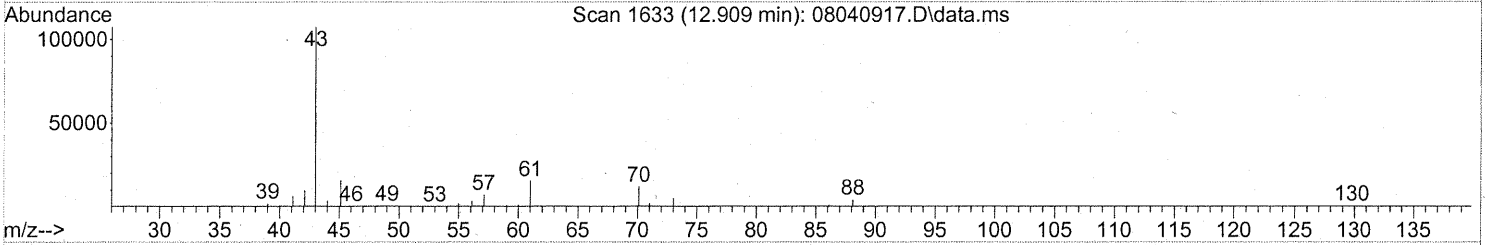
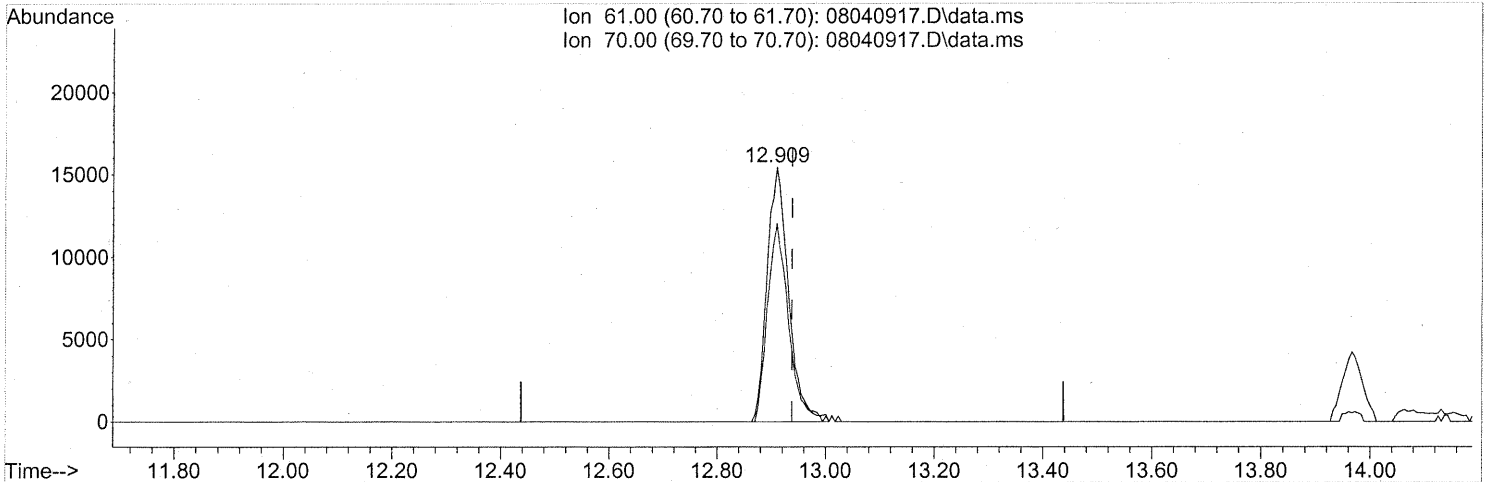
response 117523

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	372.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

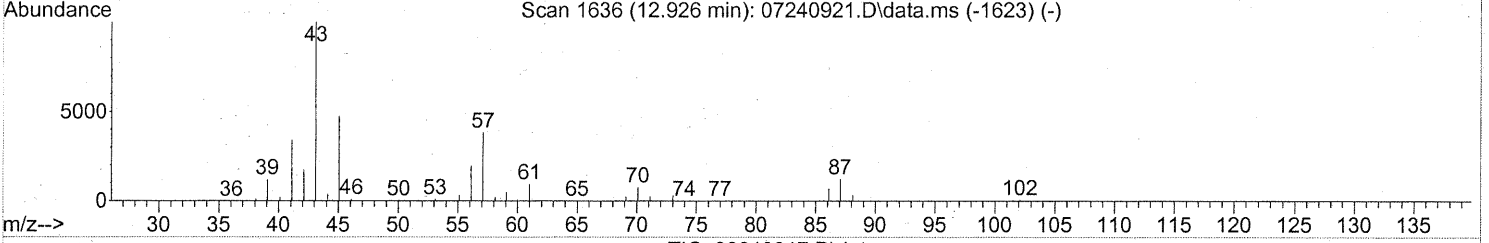
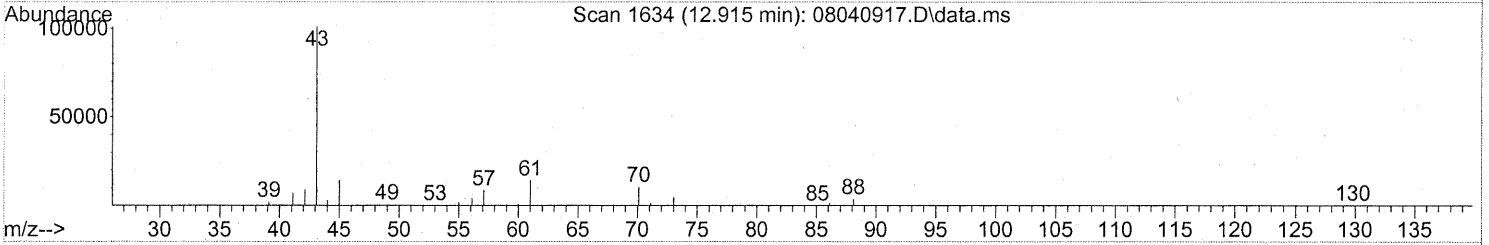
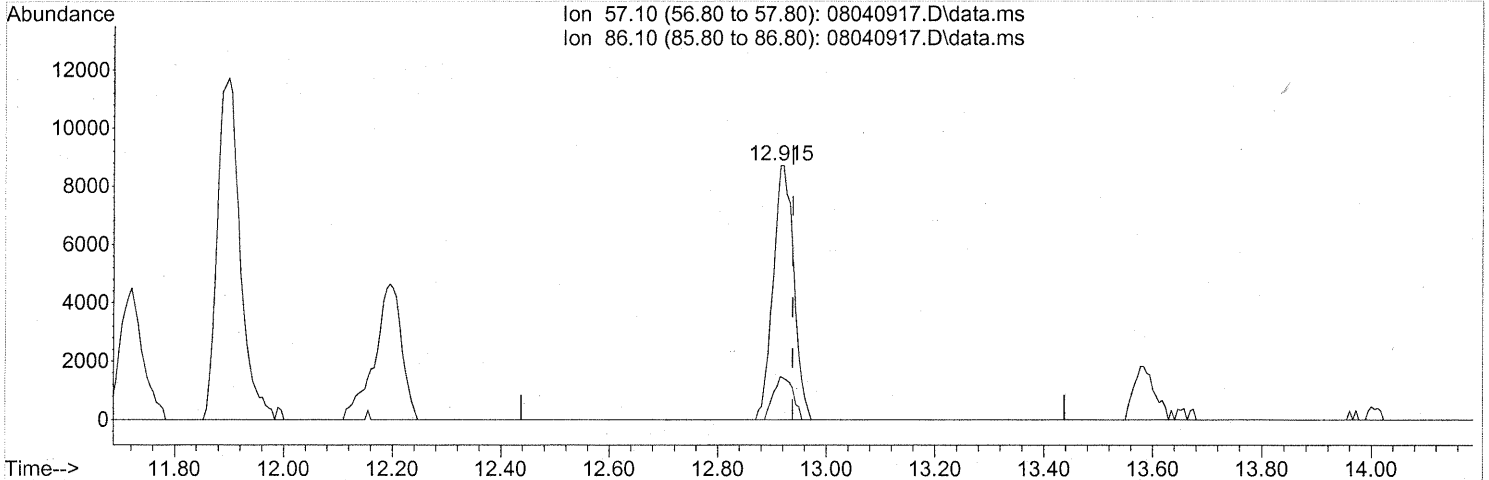
(30) Ethyl Acetate (T)
 12.909min (-0.029) 5.41ng
 response 42402

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	75.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



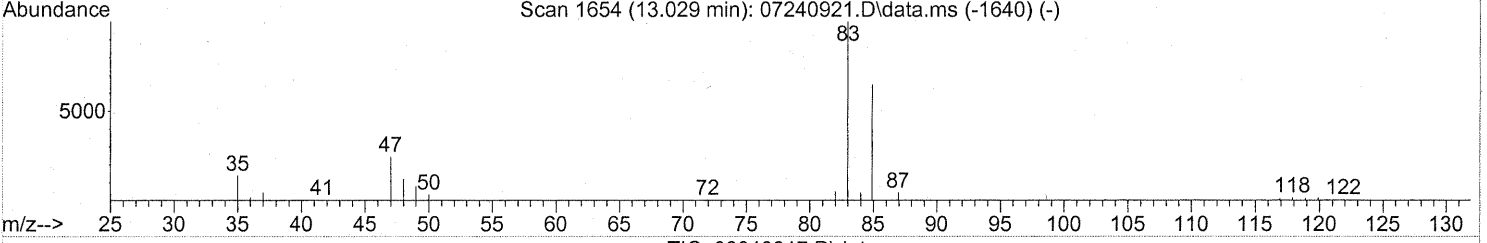
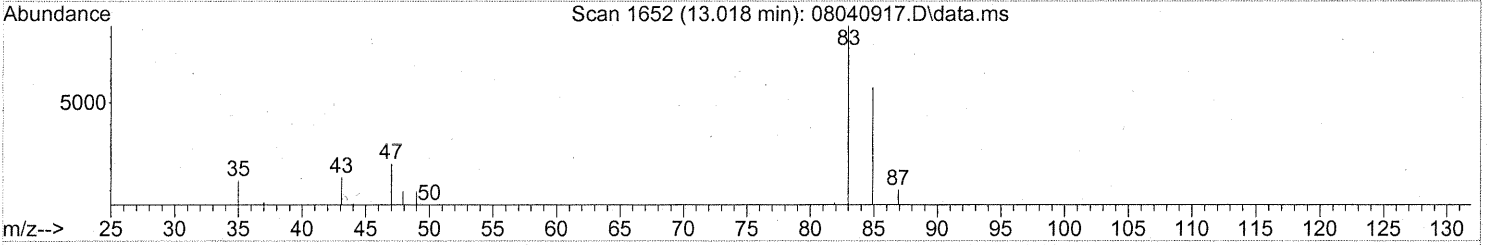
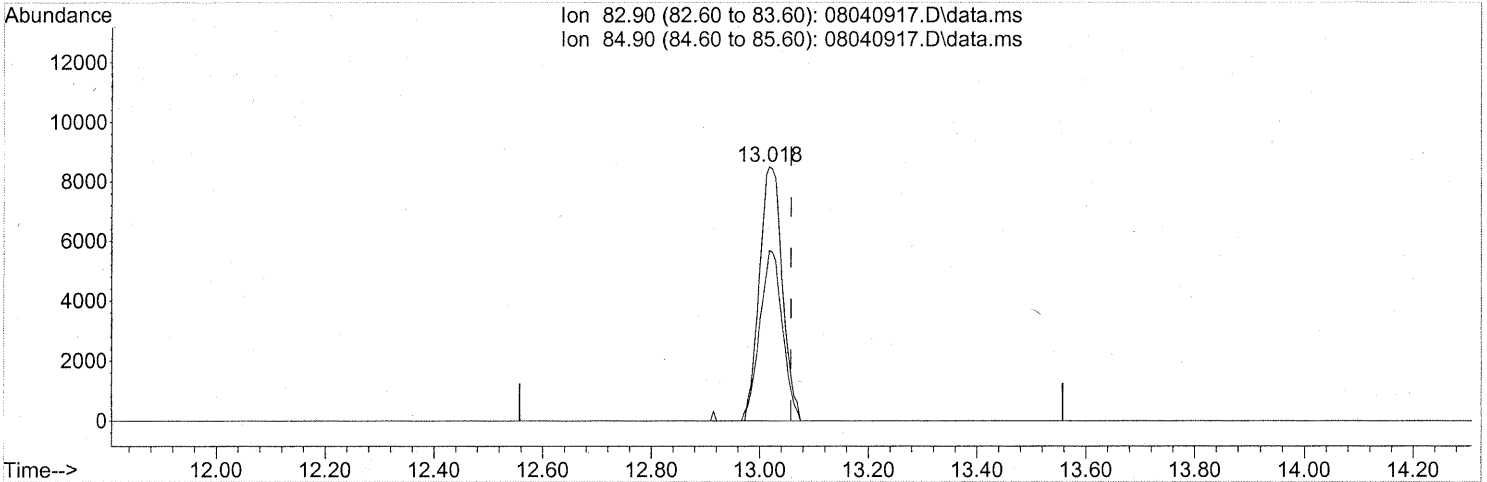
(31) n-Hexane (T)
 12.915min (-0.023) 0.63ng
 response 22913

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(32) Chloroform (T)

13.018min (-0.040) 0.76ng

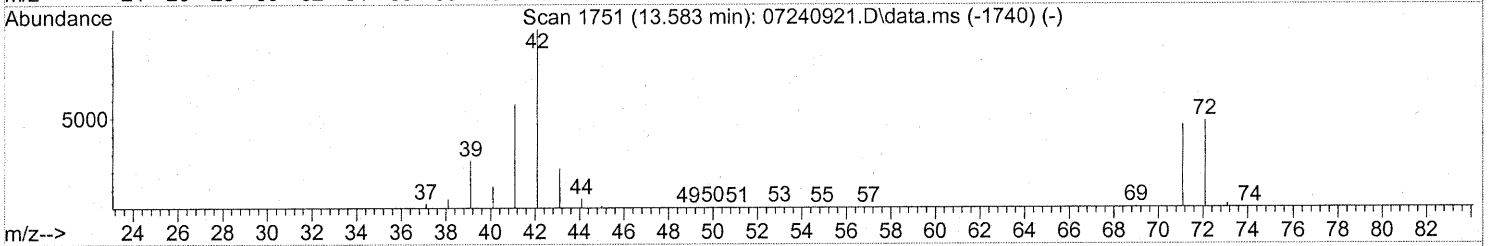
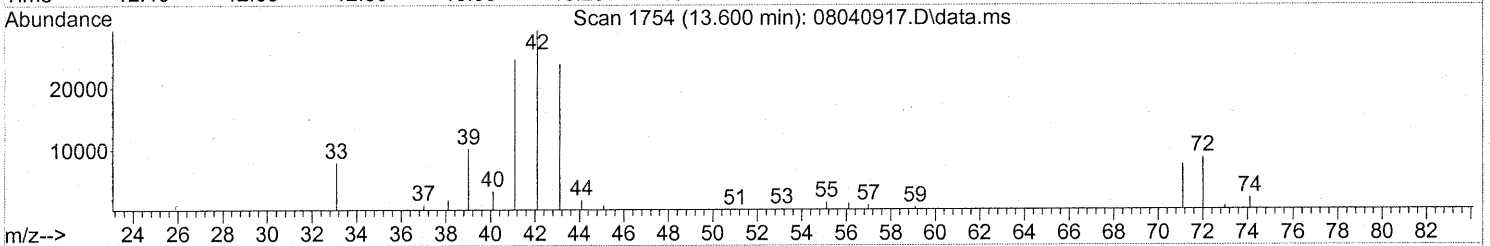
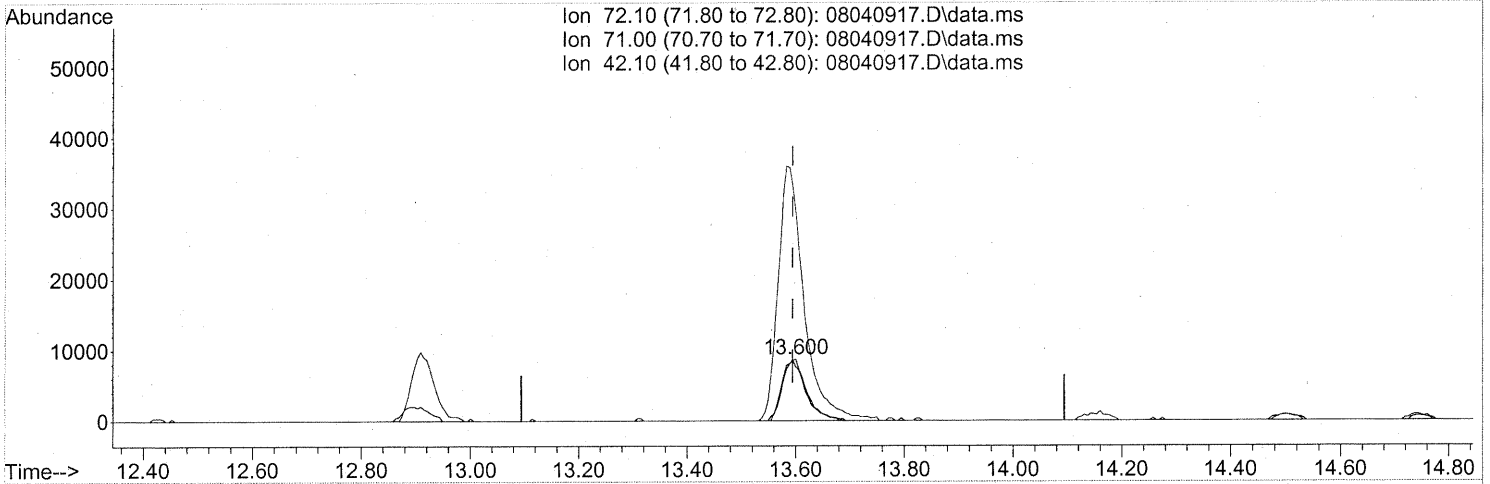
response 25012

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	66.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.600min (+0.006) 2.42ng

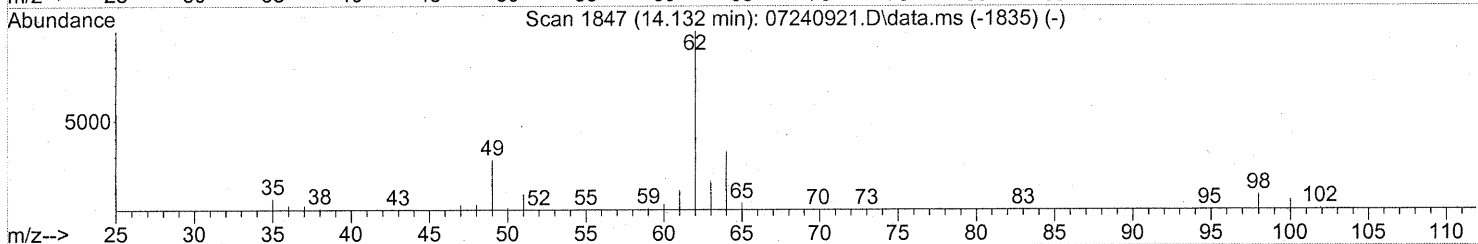
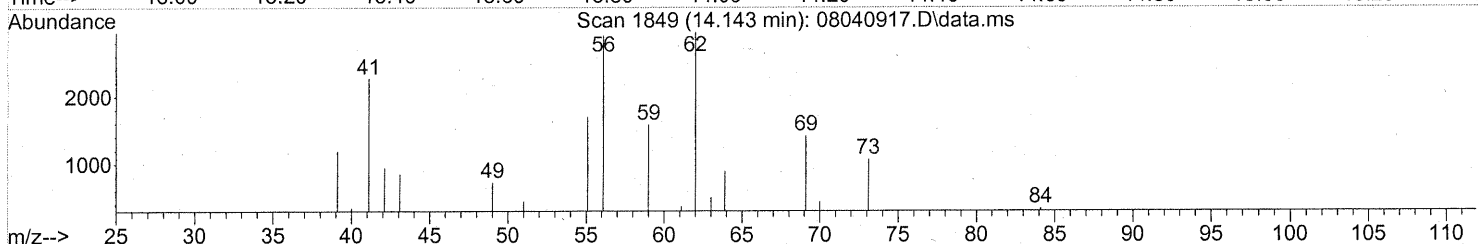
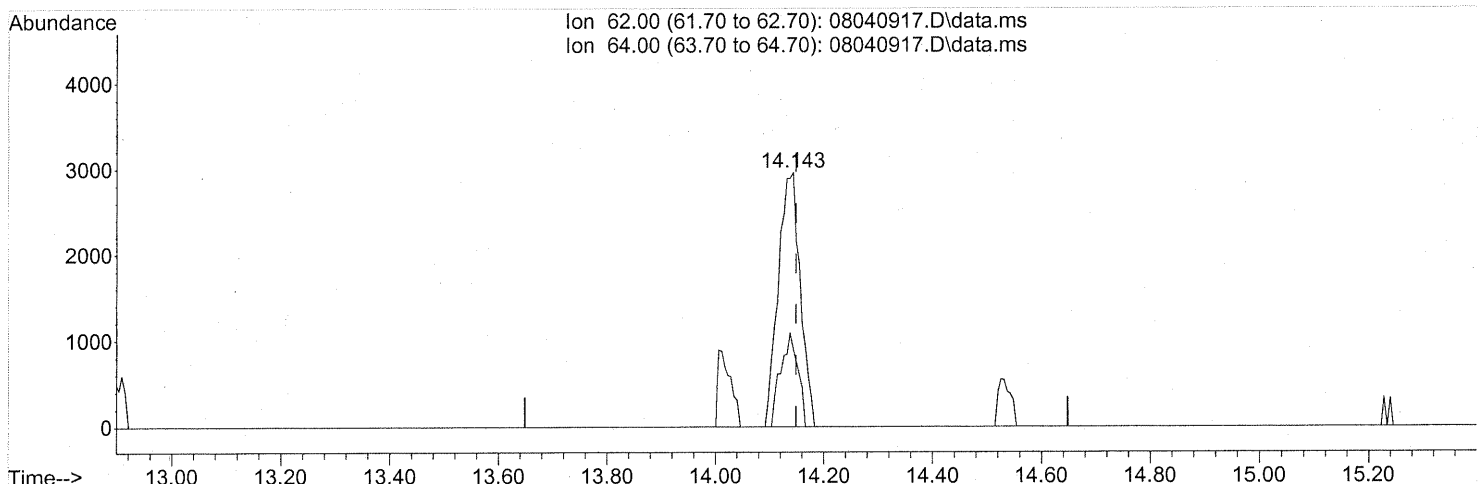
response 27295

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	92.21
42.10	206.50	435.34#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(36) 1,2-Dichloroethane (T)

14.143min (-0.006) 0.32ng

response 8315

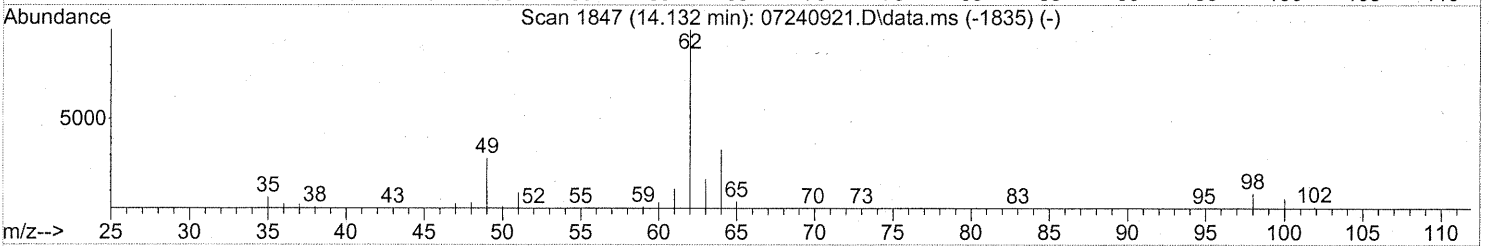
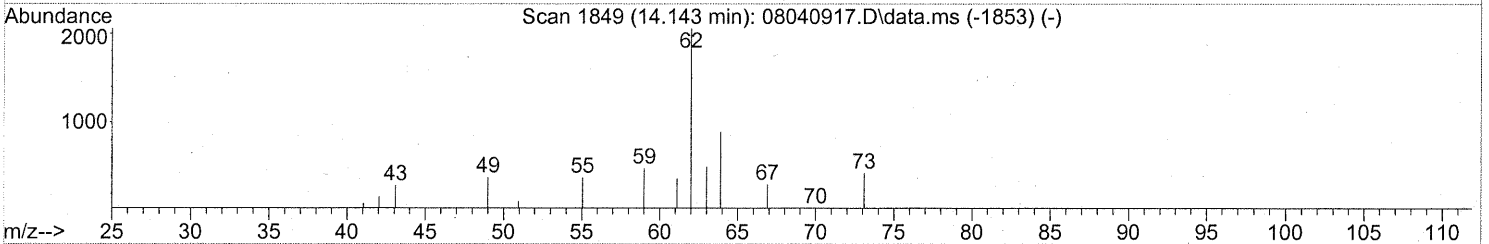
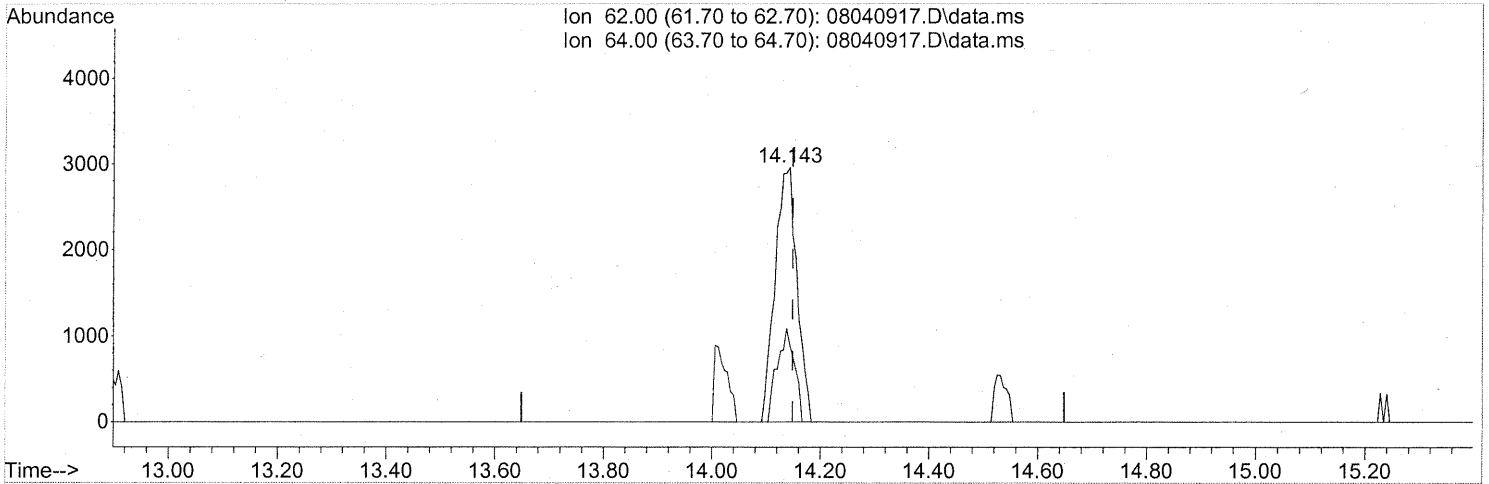
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	28.76
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(36) 1,2-Dichloroethane (T)

14.143min (-0.006) 0.32ng

response 8315

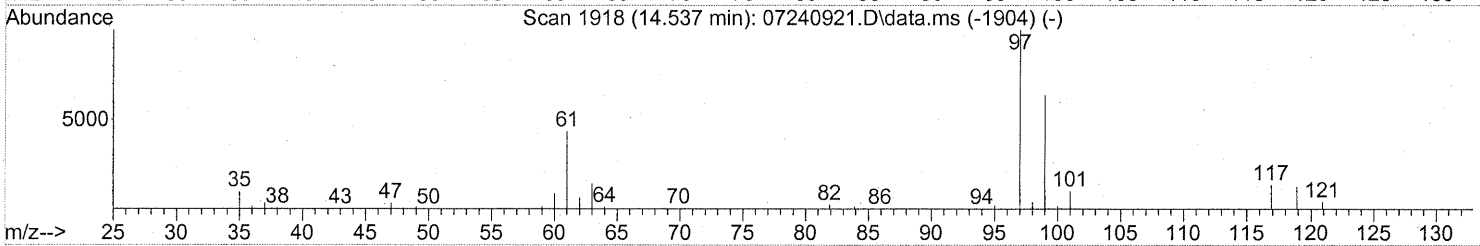
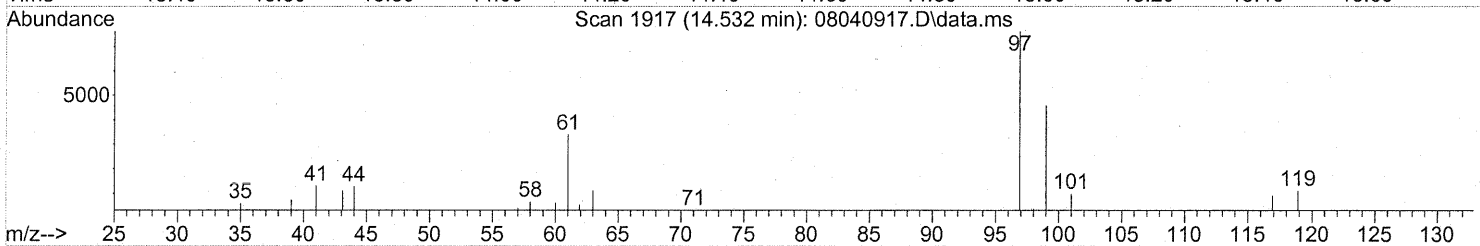
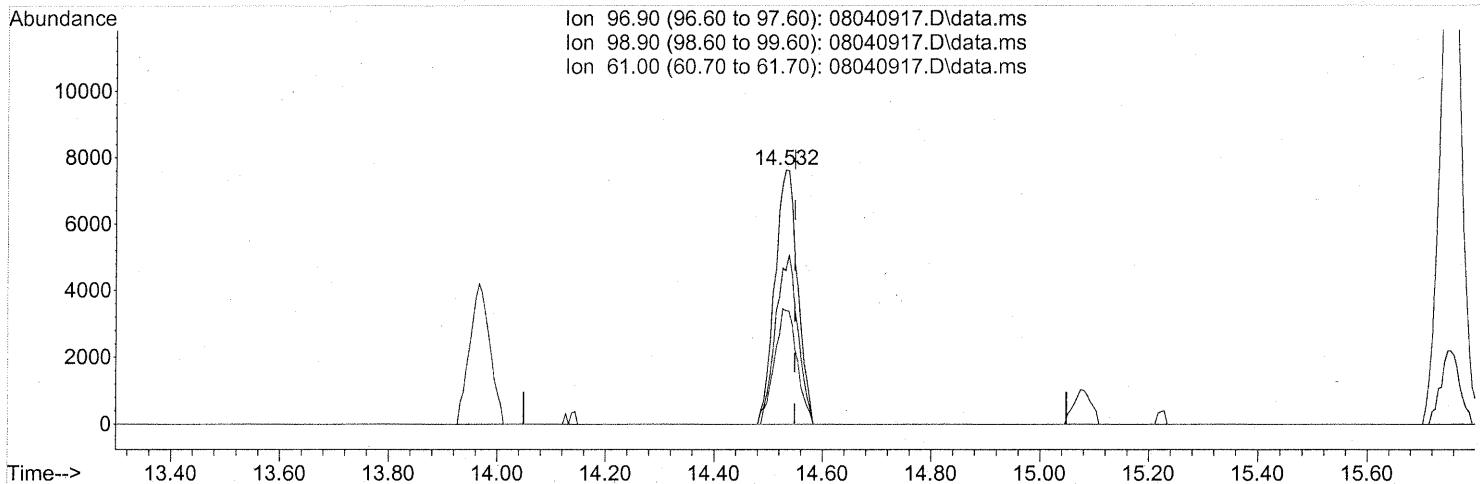
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	28.76
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 8/11/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.532min (-0.017) 0.71ng

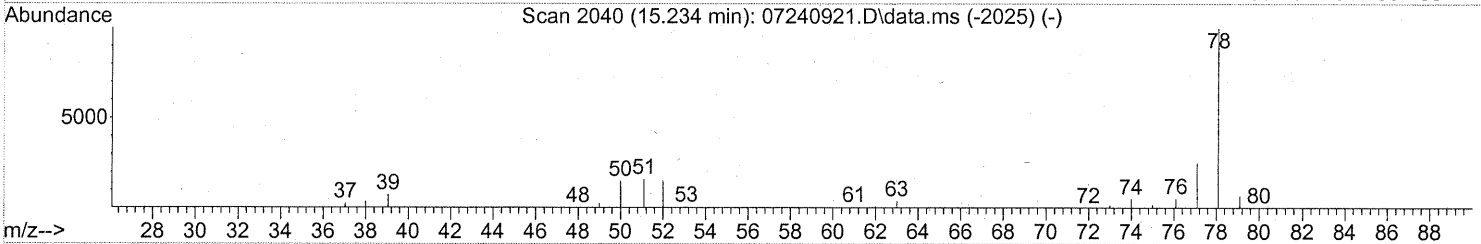
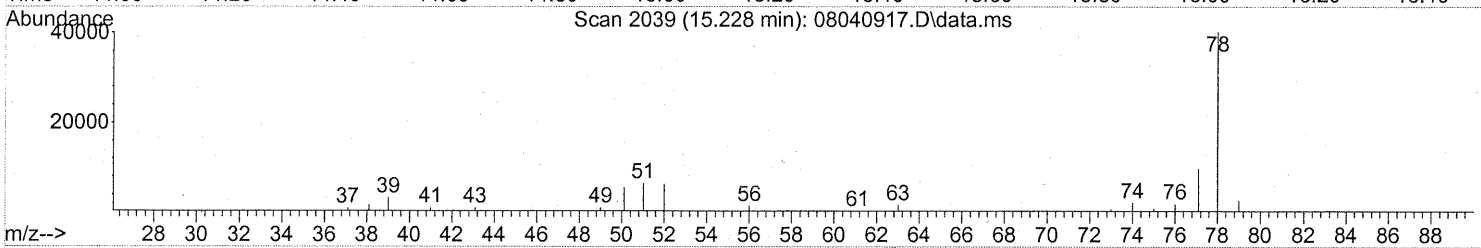
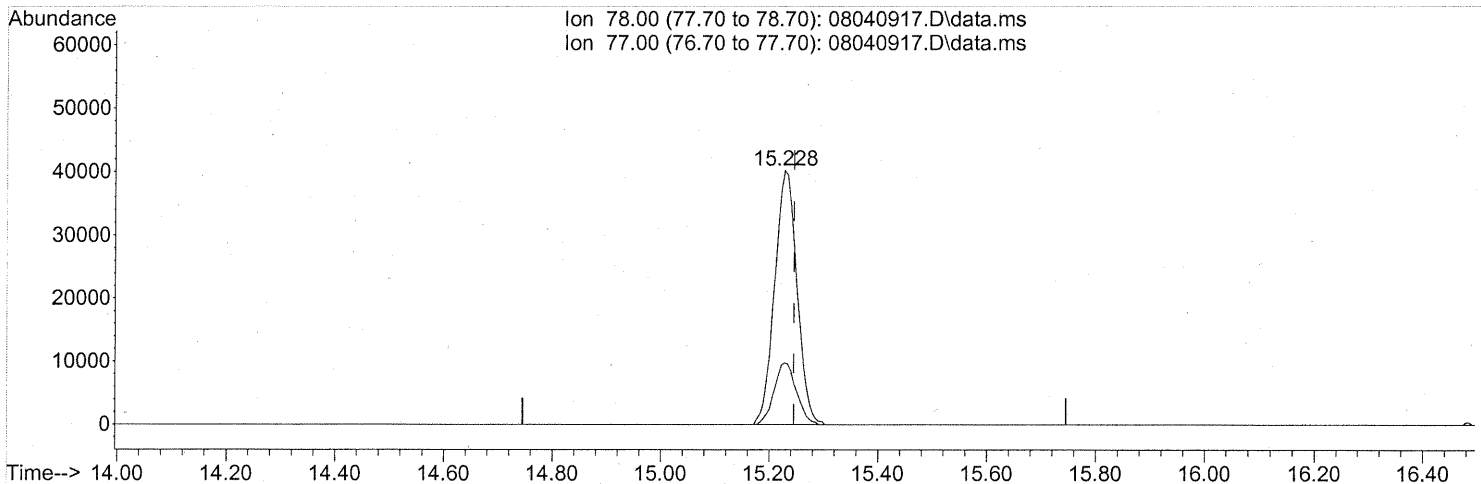
response 22126

Ion	Exp%	Act%
96.90	100	100
98.90	63.60	65.27
61.00	43.50	44.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(41) Benzene (T)

15.228min (-0.017) 1.27ng

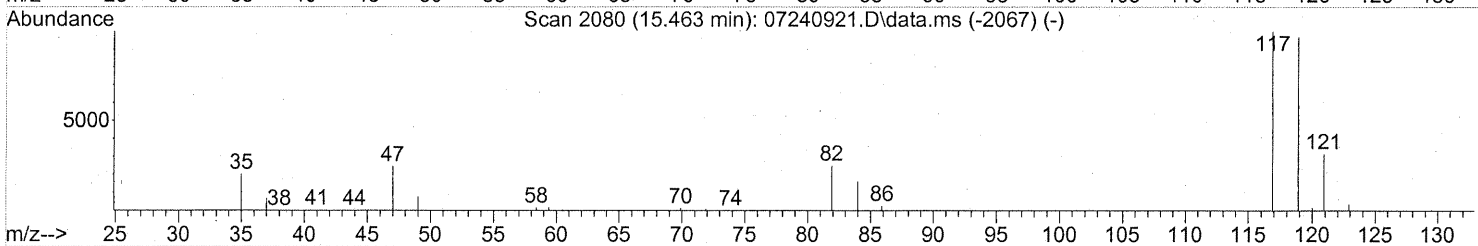
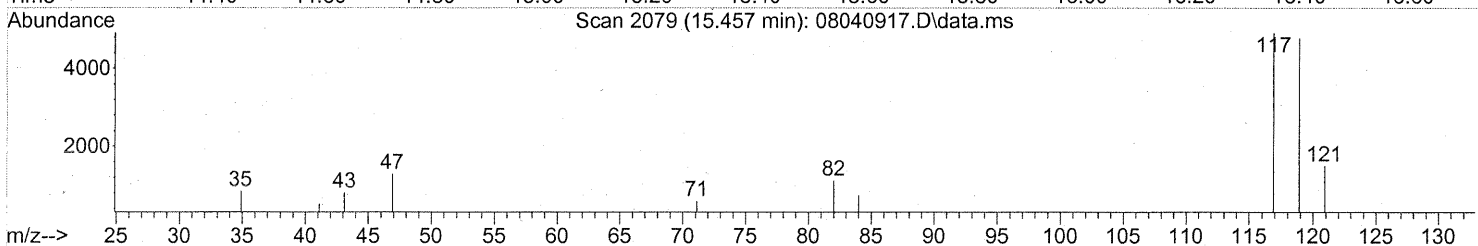
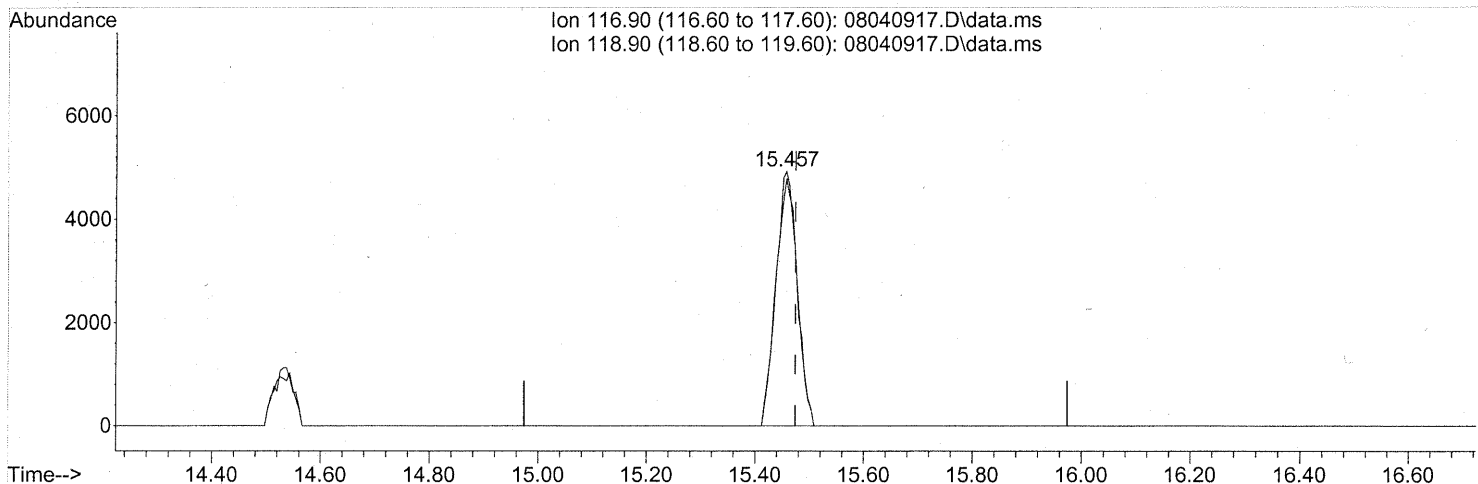
response 115119

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.50ng

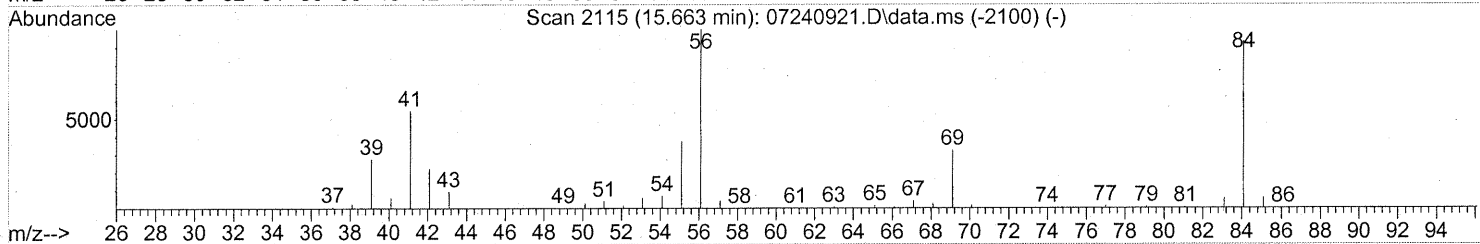
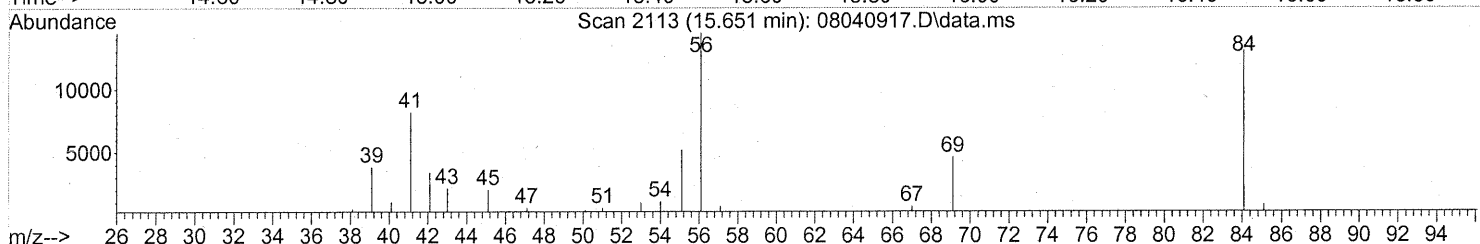
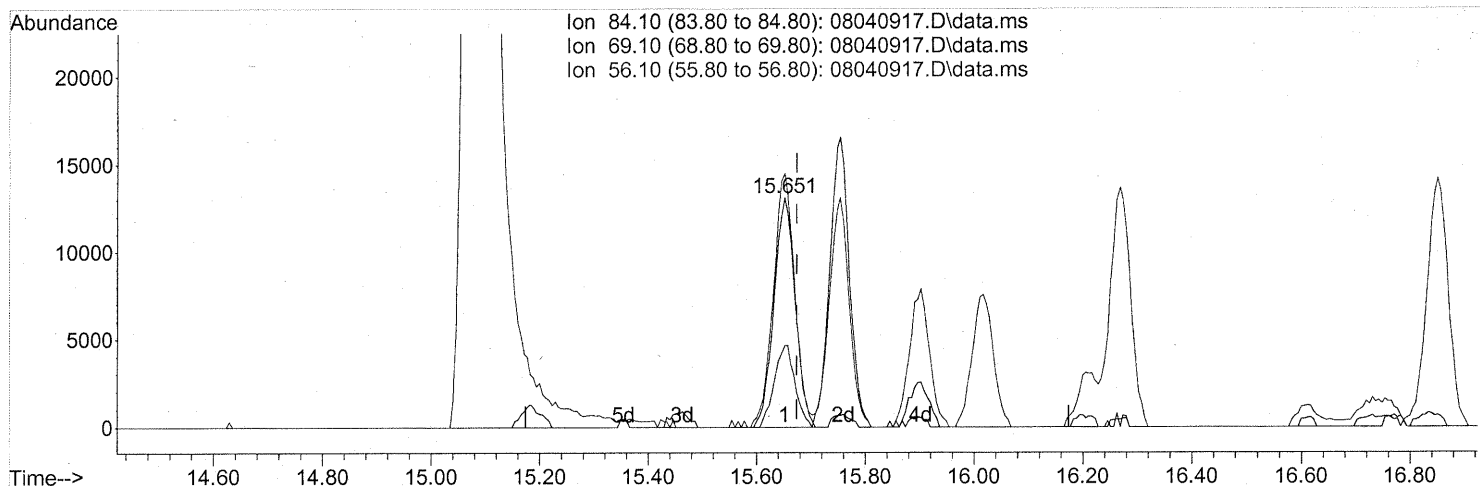
response 13386

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	97.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

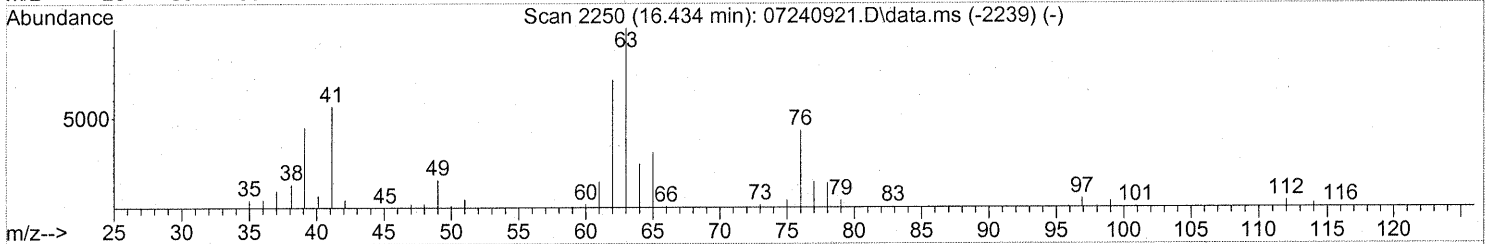
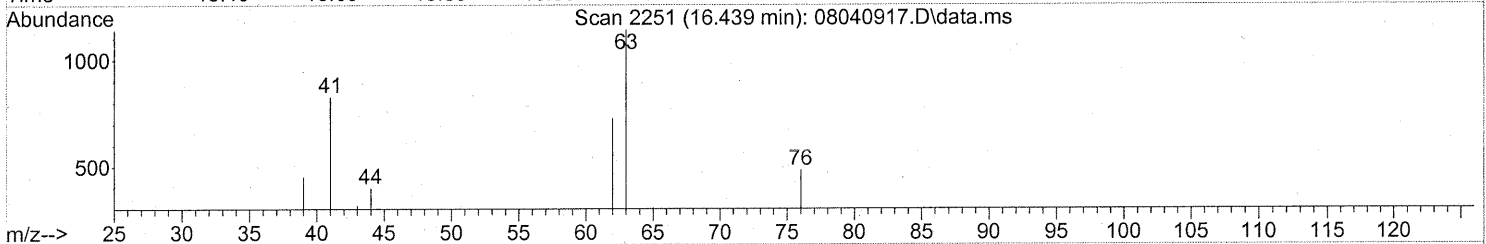
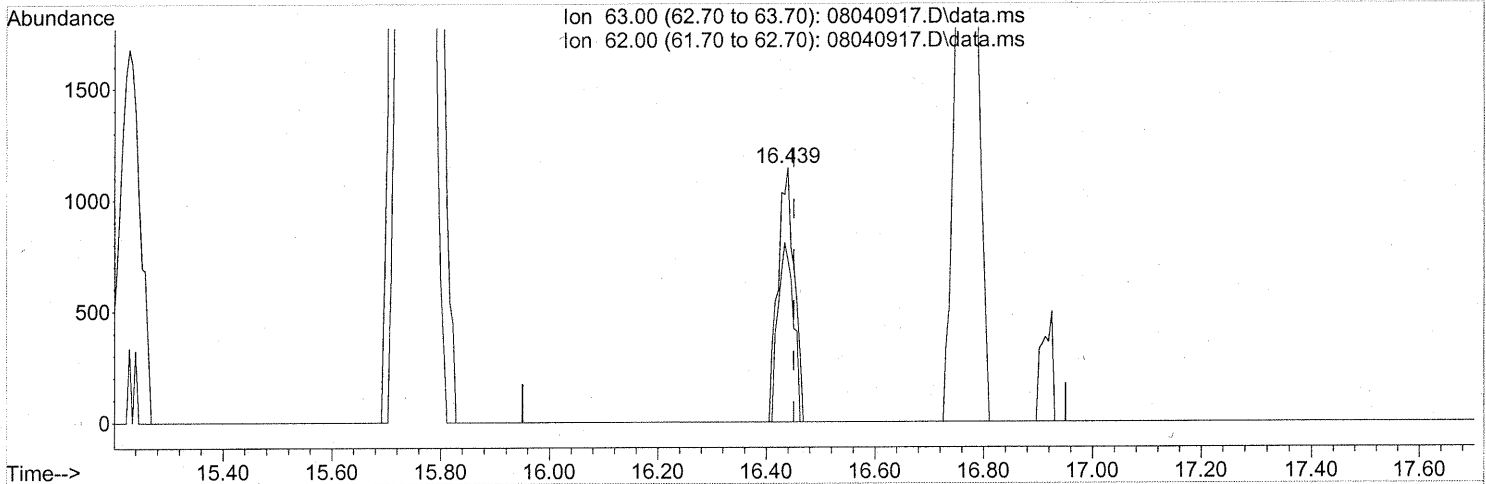
(43) Cyclohexane (T)
 15.651min (-0.023) 1.05ng
 response 35626

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	34.55
56.10	107.30	112.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.439min (-0.011) 0.13ng

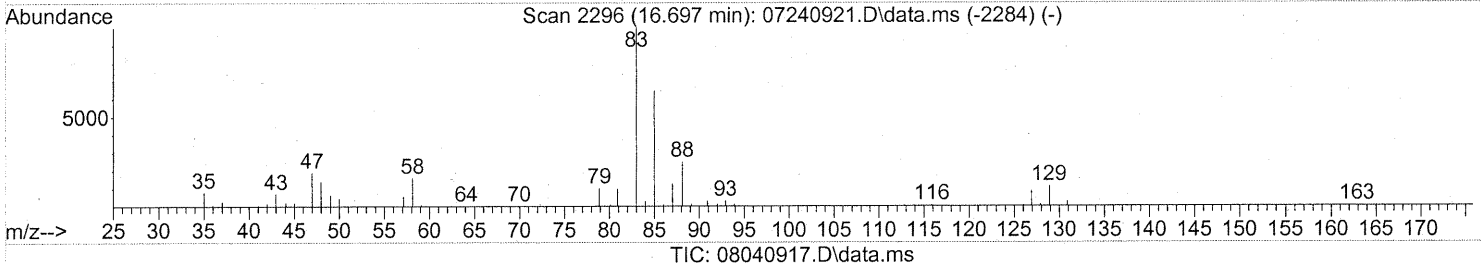
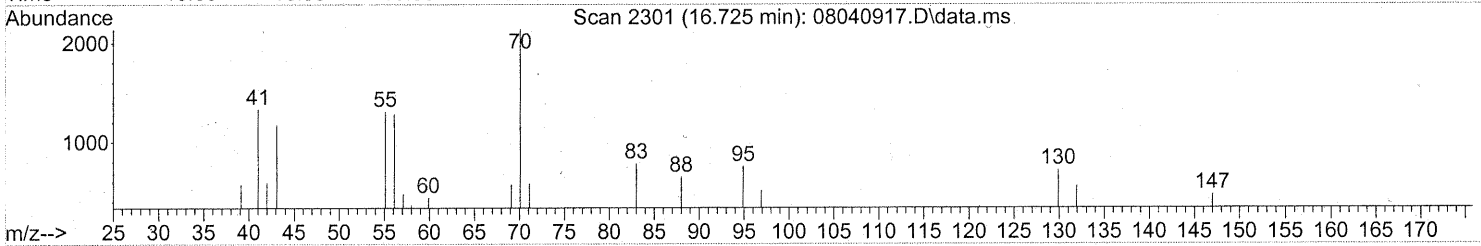
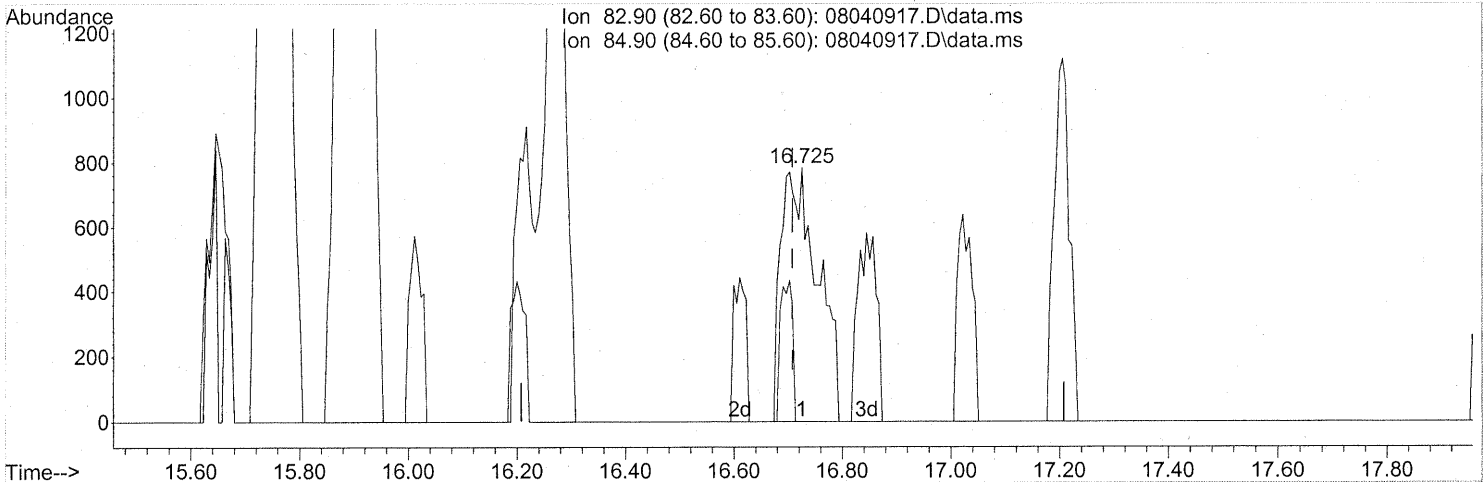
response 2390

Ion	Exp%	Act%
63.00	100	100
62.00	71.00	65.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.725min (+0.017) 0.14ng

response 3646

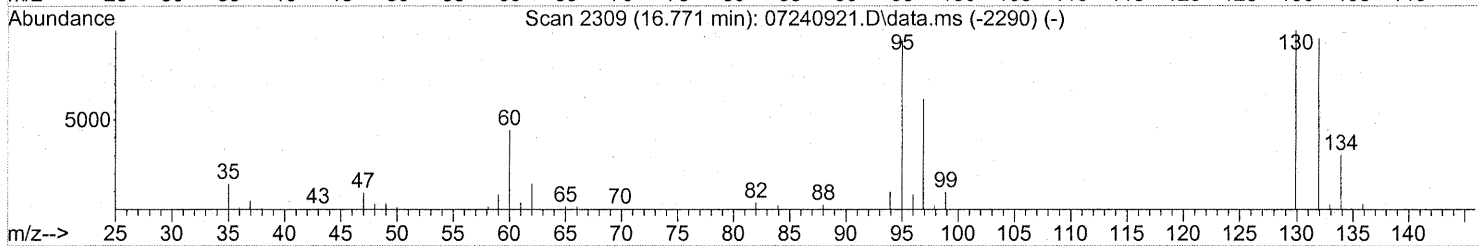
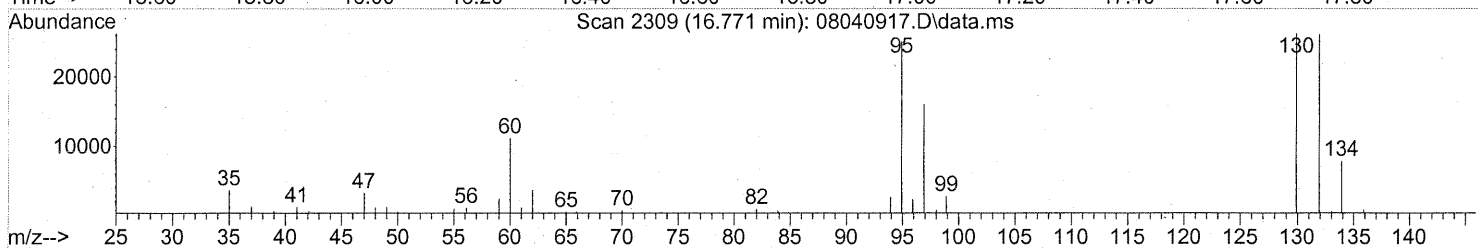
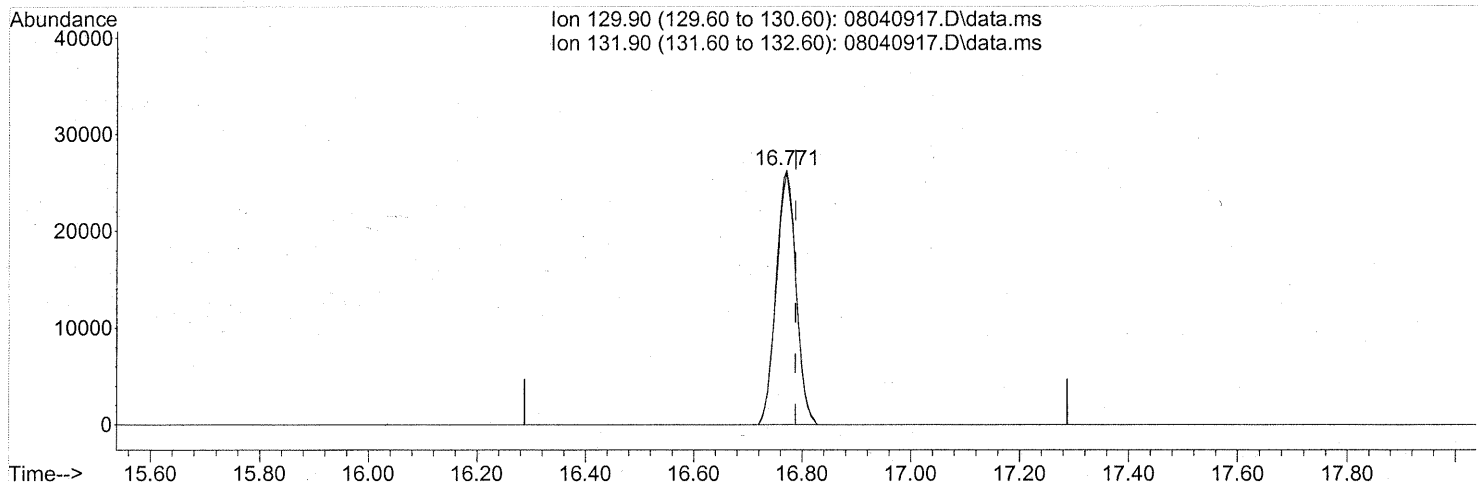
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
um 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

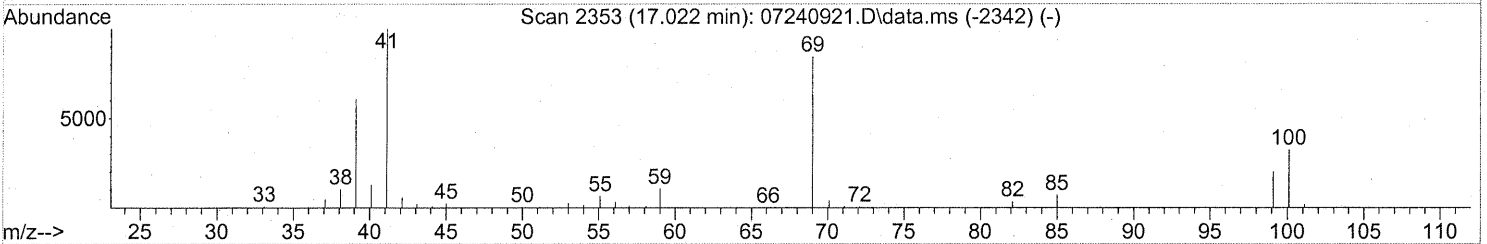
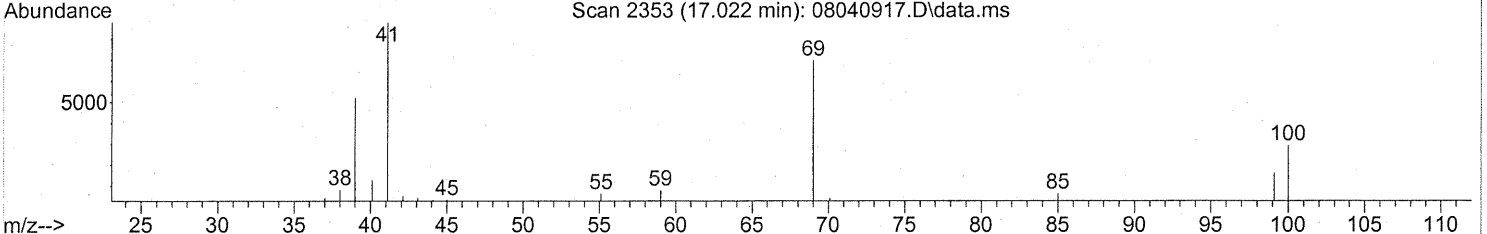
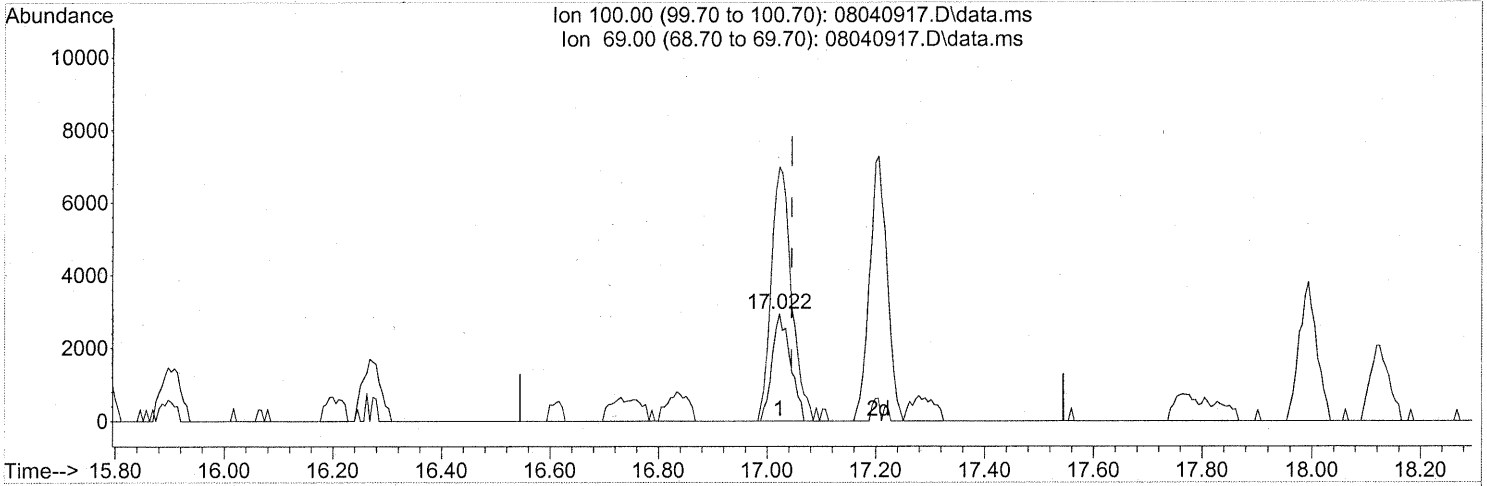
(47) Trichloroethene (T)
 16.771min (-0.017) 2.92ng
 response 67412

Ion	Exp%	Act%
129.90	100	100
131.90	95.60	97.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

17.022min (-0.023) 0.81ng

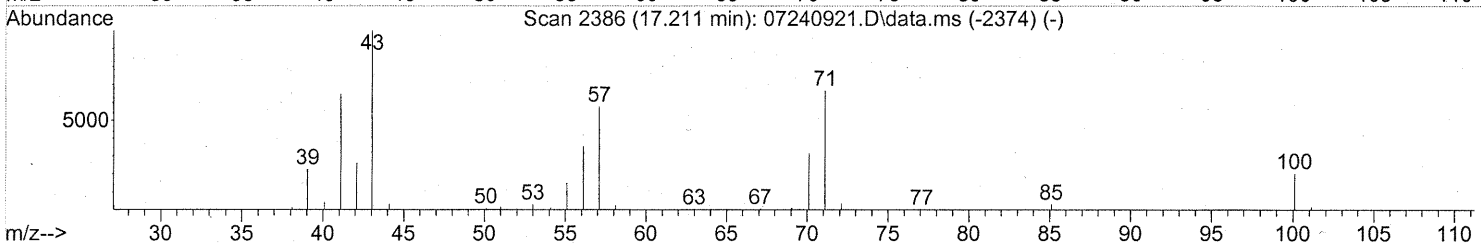
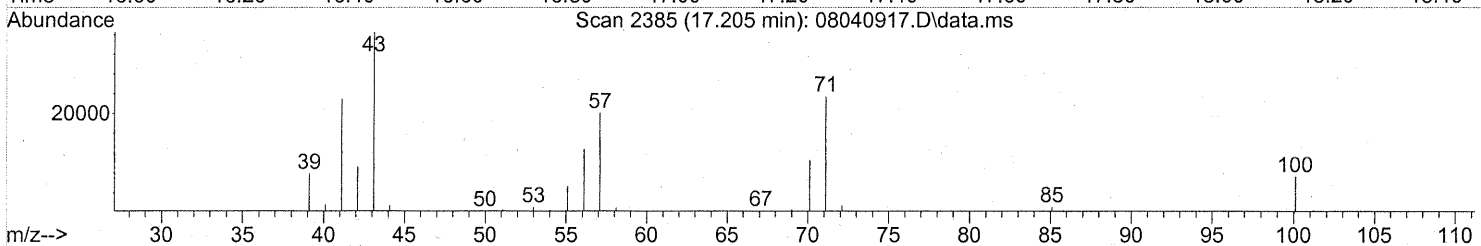
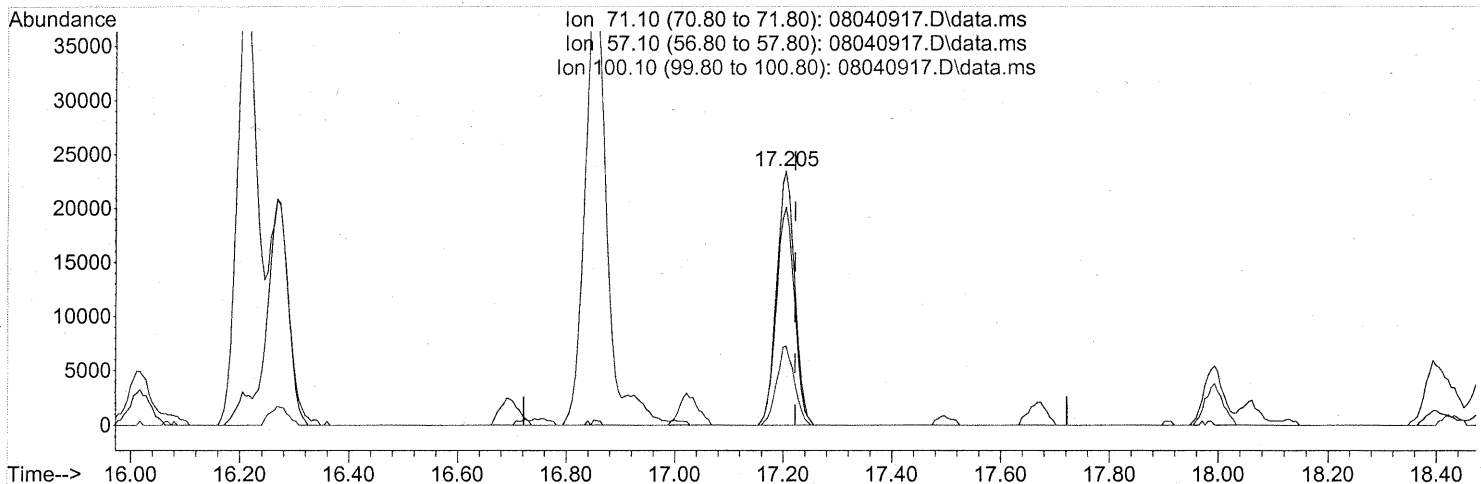
response 6835

Ion	Exp%	Act%
100.00	100	100
69.00	261.10	264.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

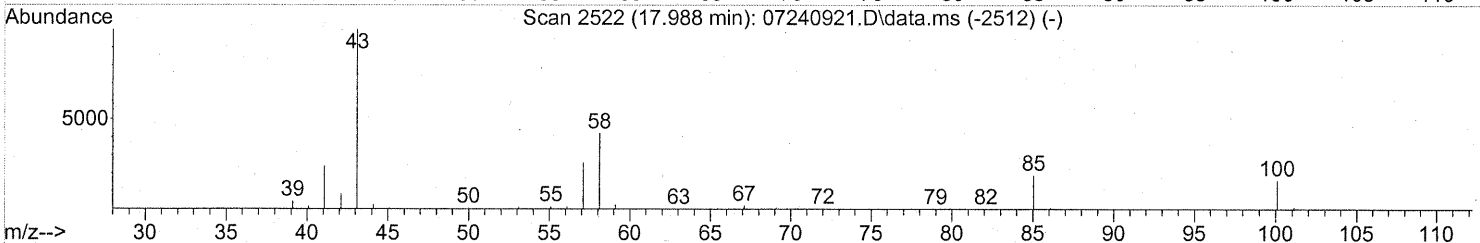
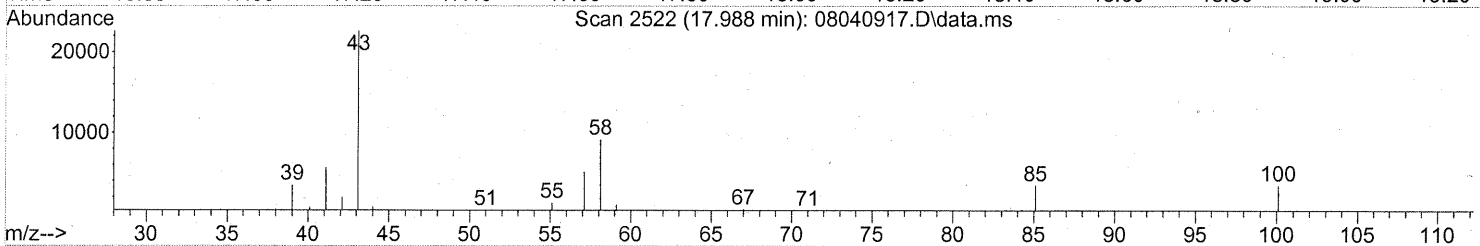
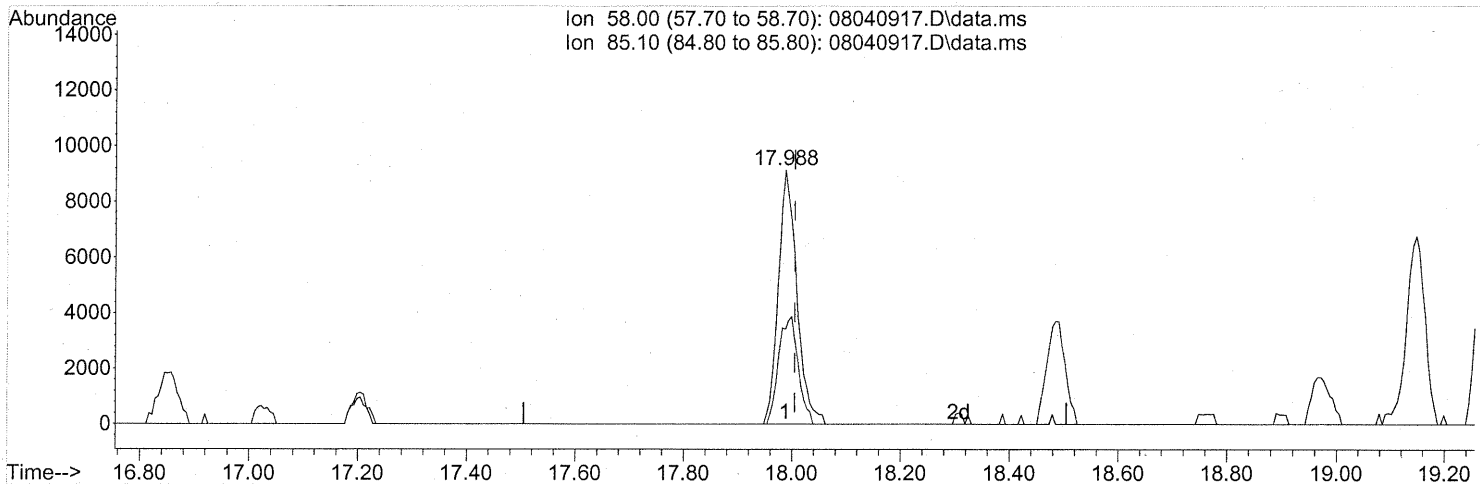
(51) n-Heptane (T)
 17.205min (-0.017) 2.47ng
 response 54040

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	86.06
100.10	30.70	30.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

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

17.988min (-0.017) 1.27ng

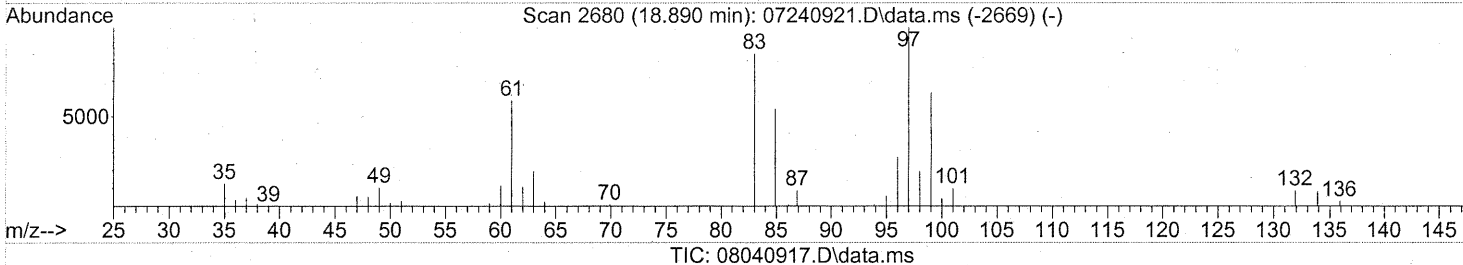
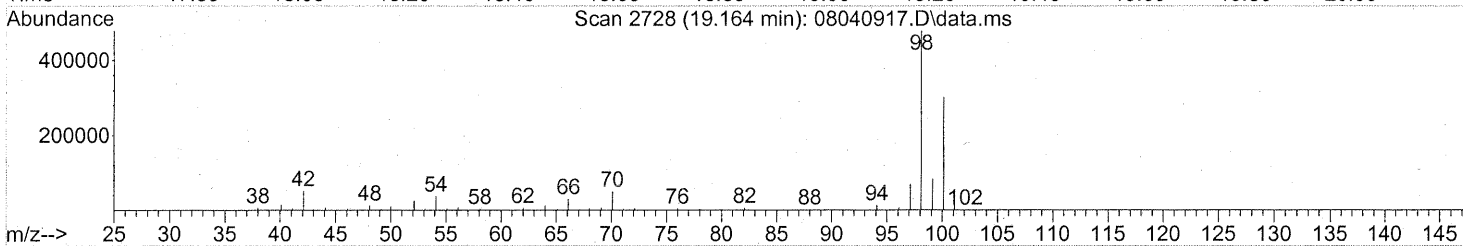
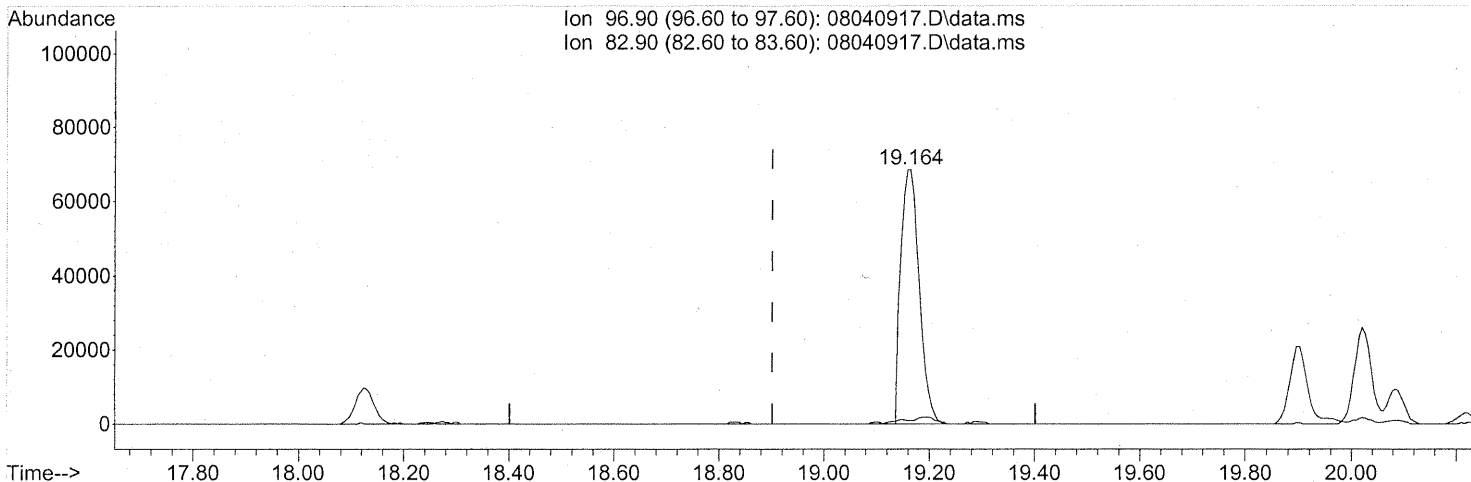
response 21674

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	44.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040917.D
Acq On : 4 Aug 2009 19:00
Operator : EM
Sample : P0902624-005 (1000ml)
Misc : Environmental H & E 99445
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

19.164min (+0.263) 8.73ng

response 165860

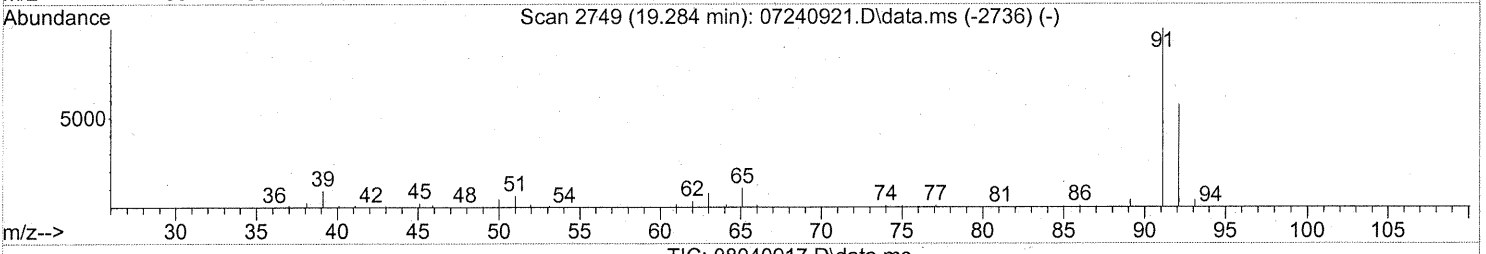
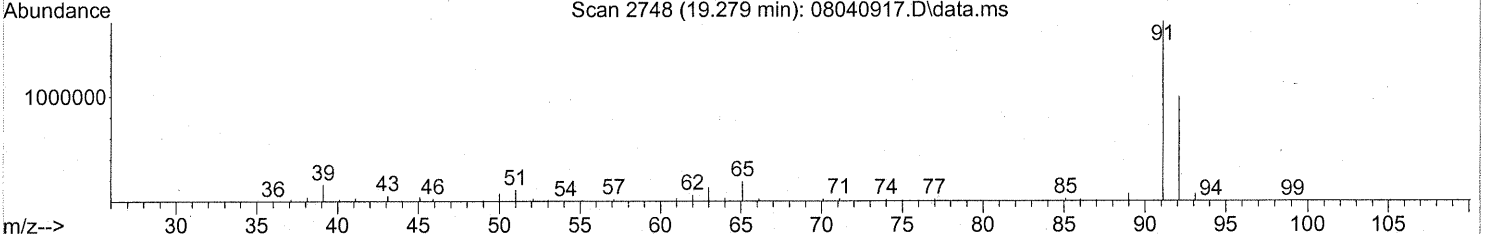
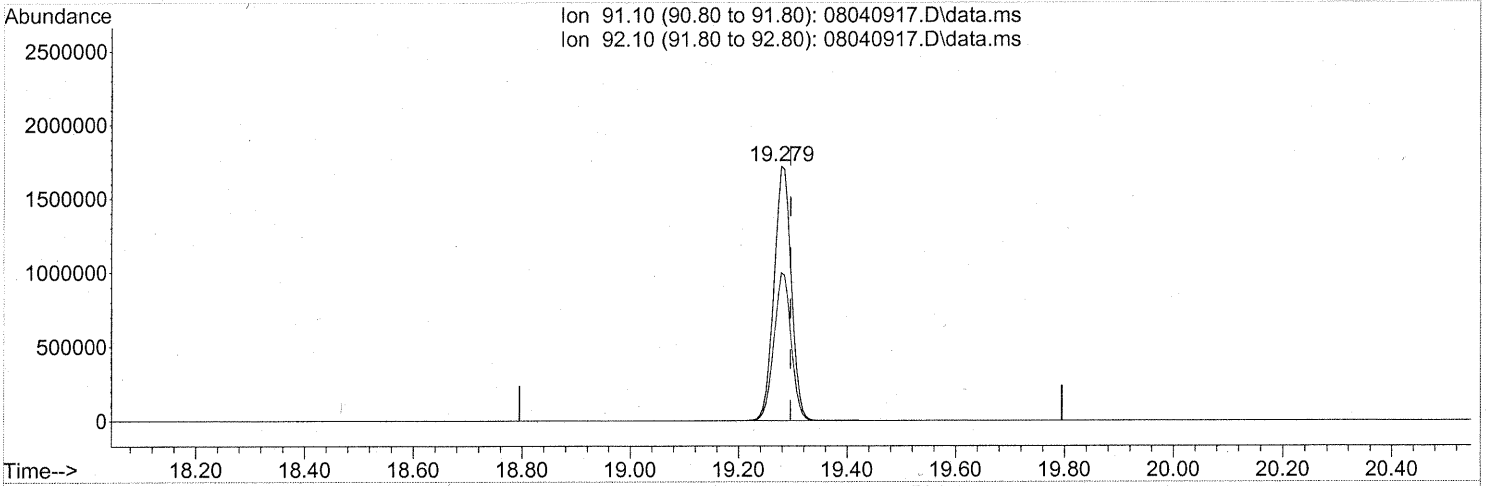
Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.54#
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
LM 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

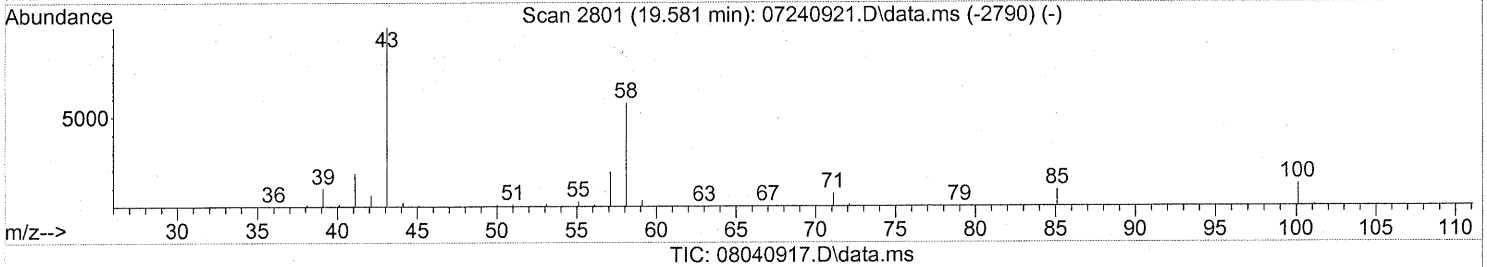
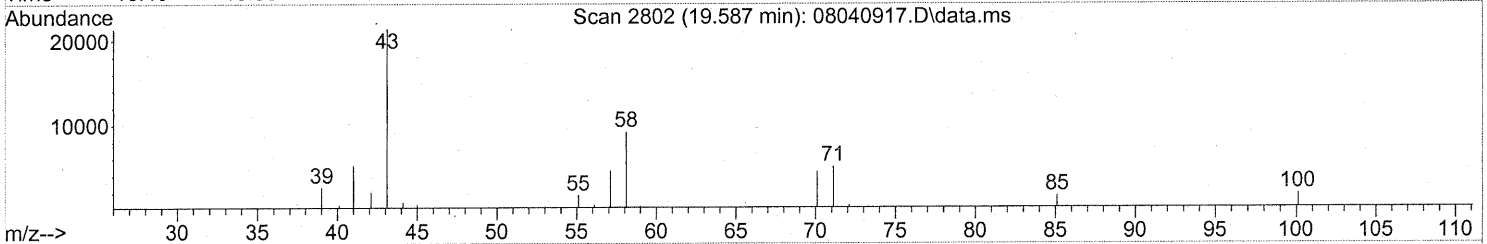
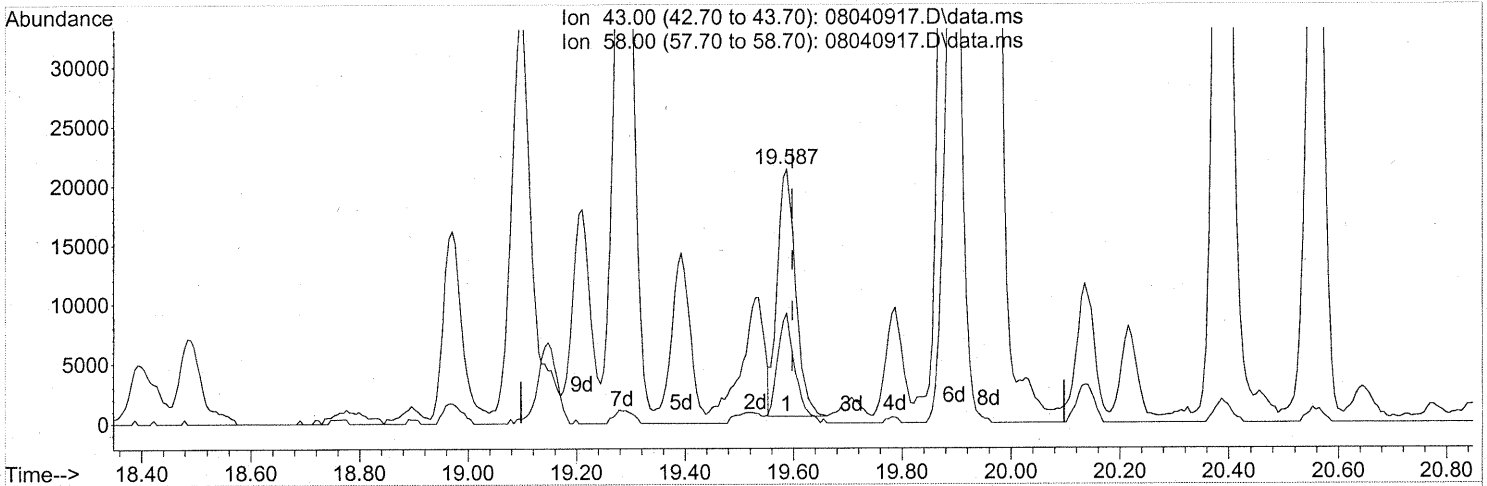
(58) Toluene (T)
 19.279min (-0.017) 35.65ng
 response 3794362

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



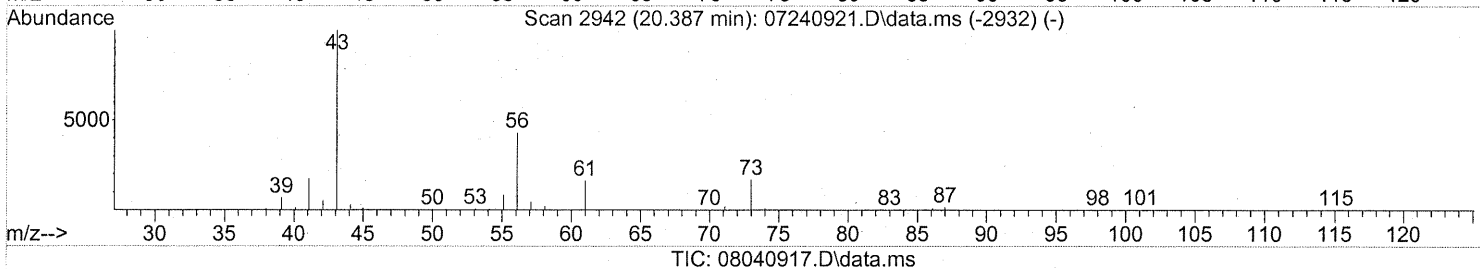
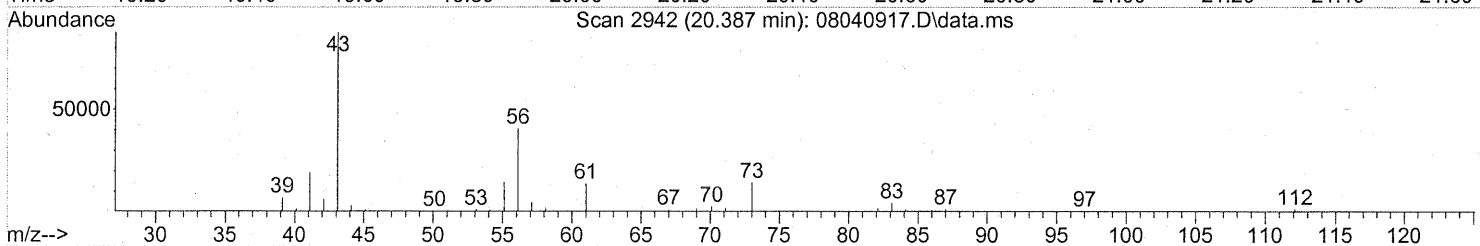
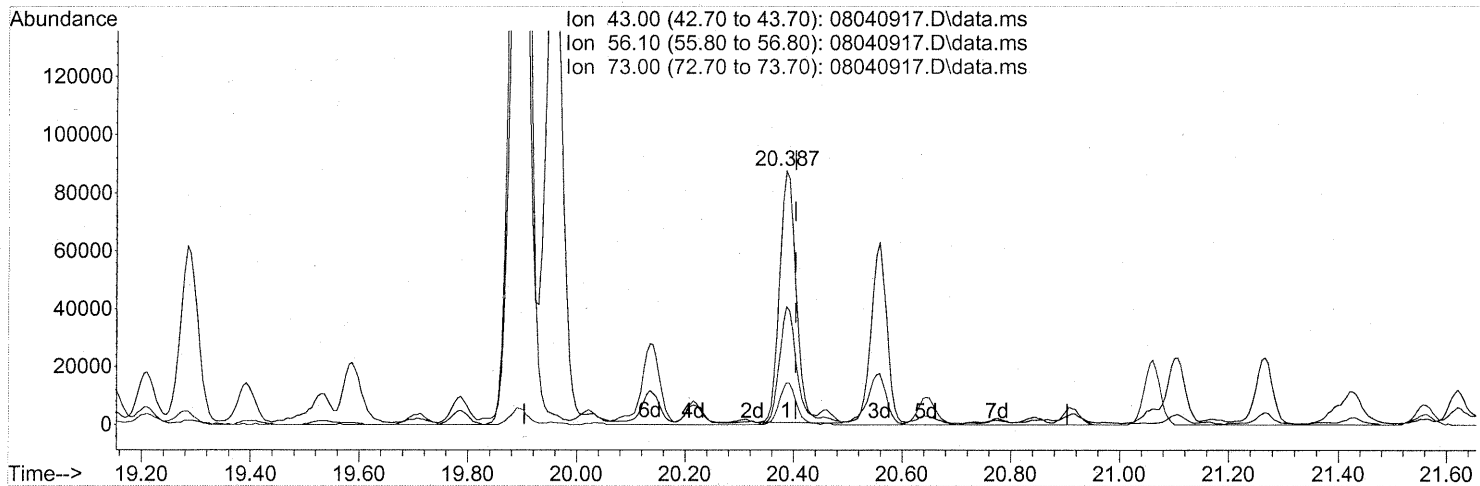
(59) 2-Hexanone (T)
 19.587min (-0.011) 1.06ng
 response 48738

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	43.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



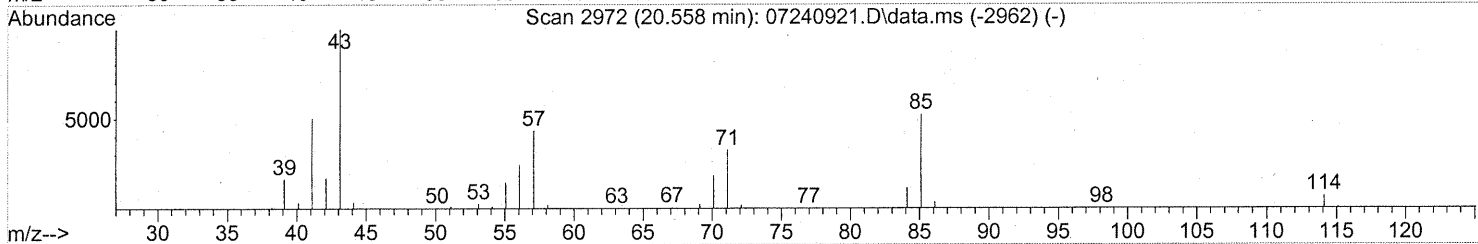
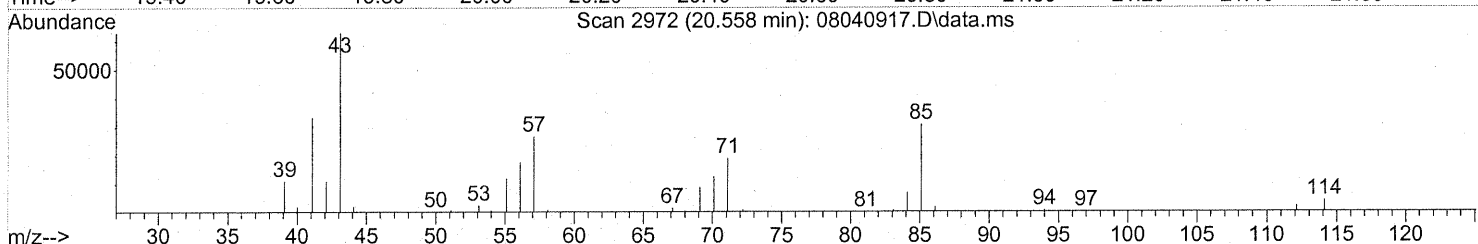
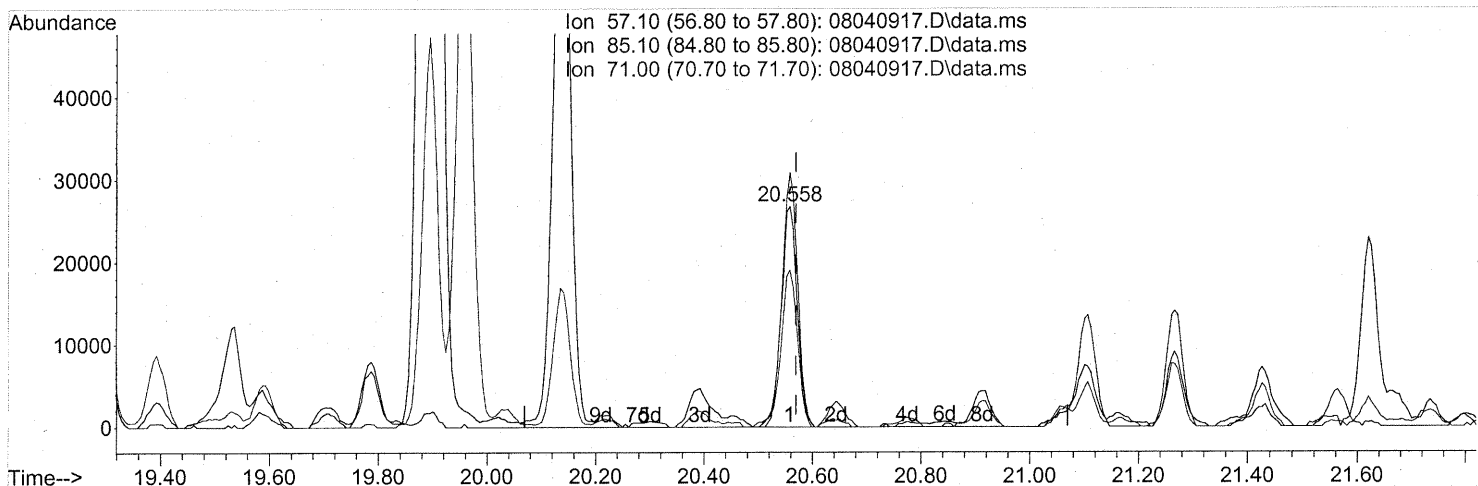
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 3.70ng
 response 188162

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	48.22
73.00	16.90	16.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



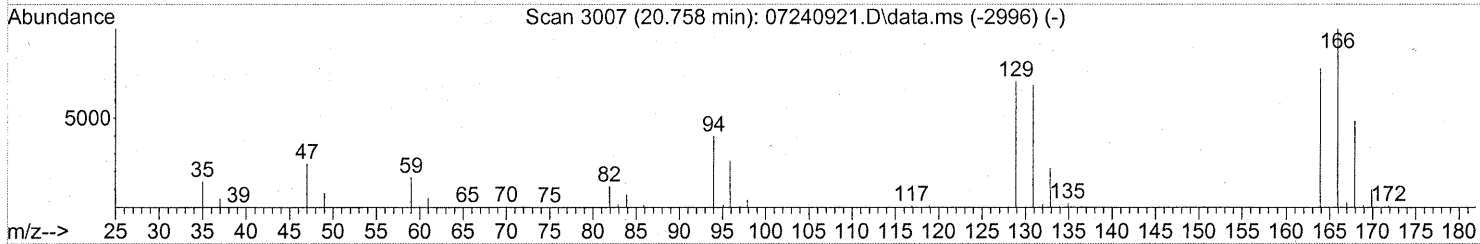
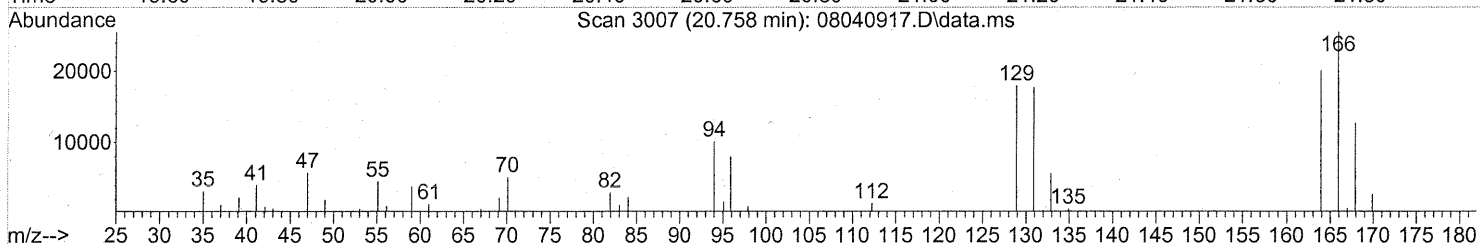
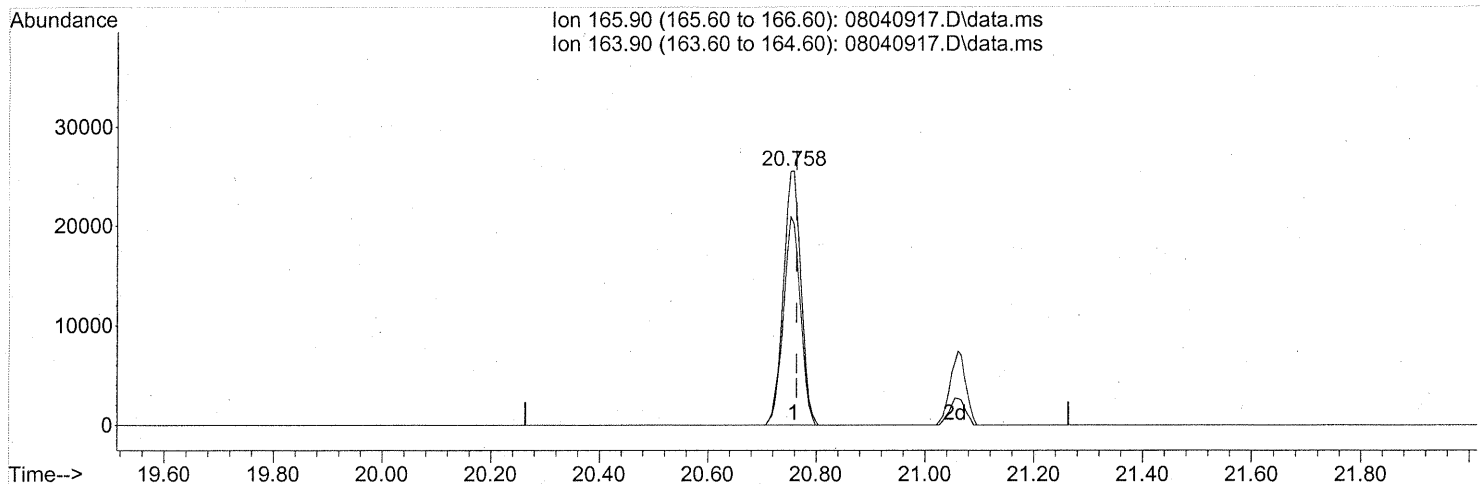
(63) n-Octane (T)
 20.558min (-0.011) 2.67ng
 response 55543

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	111.67
71.00	75.10	72.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.758min (-0.006) 2.05ng

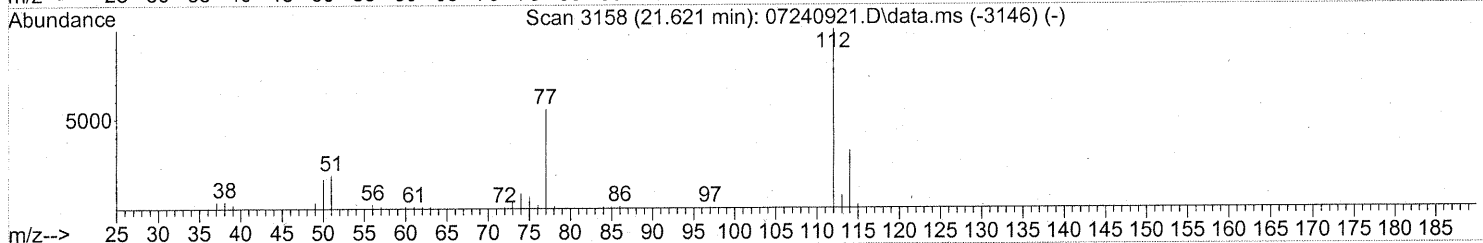
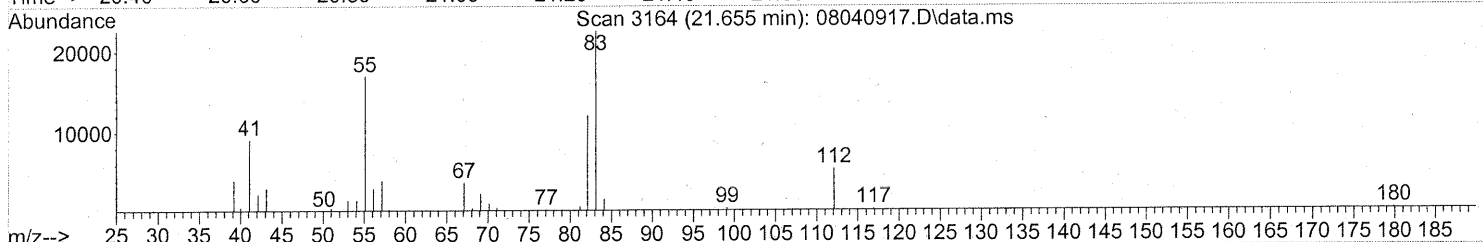
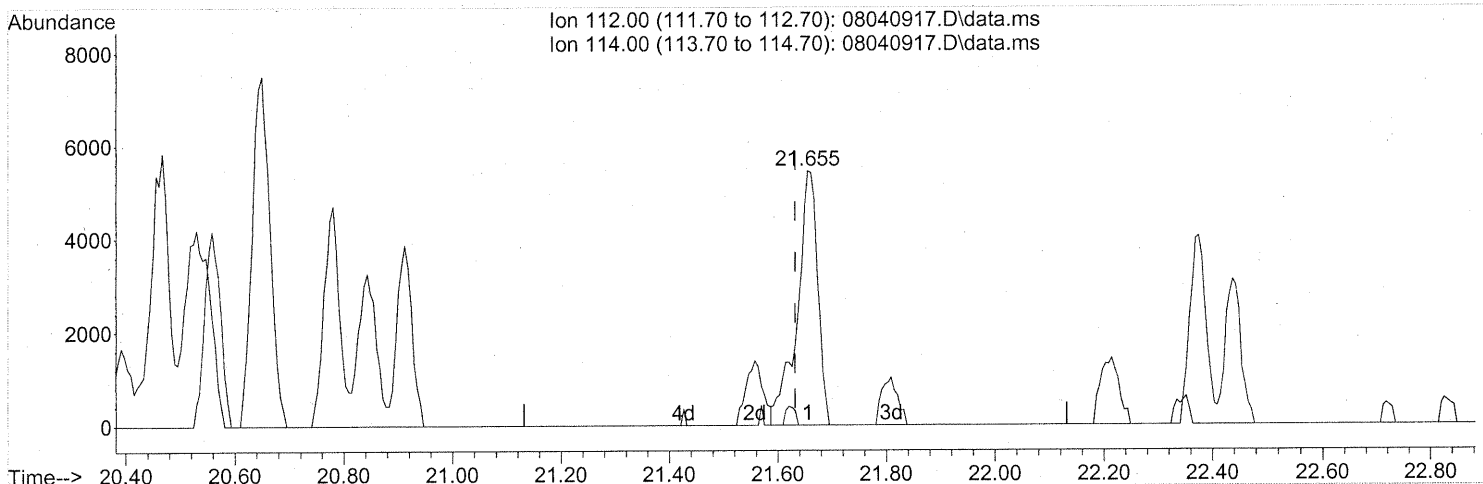
response 57561

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	78.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.655min (+0.023) 0.21ng
 response 14368

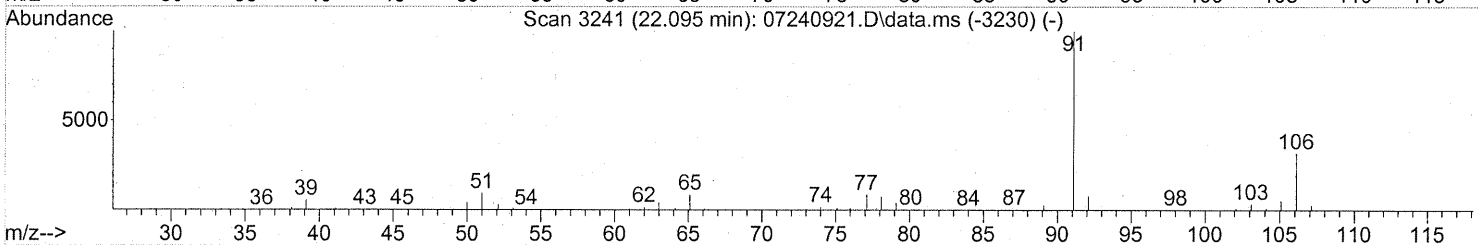
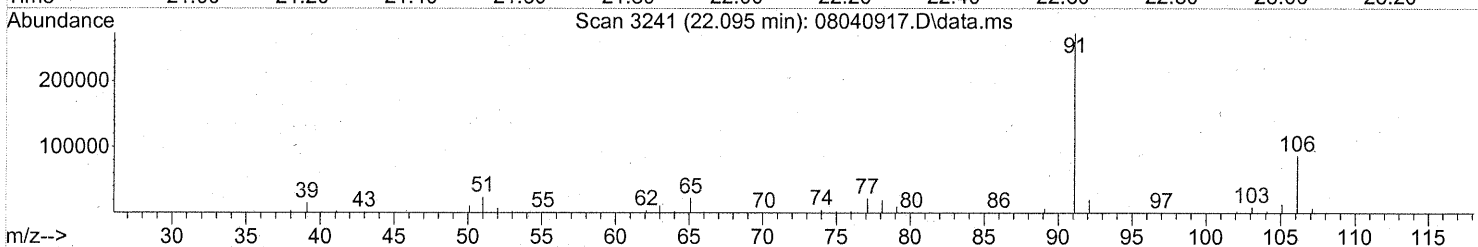
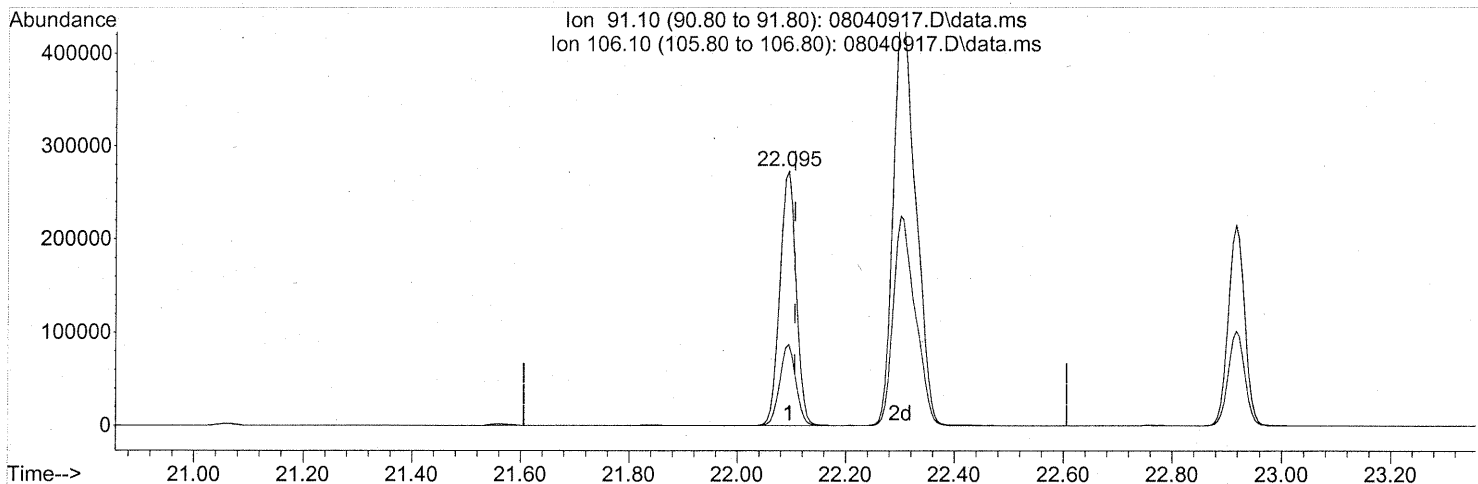
Ion	Exp%	Act%
112.00	100	100
114.00	32.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
W 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

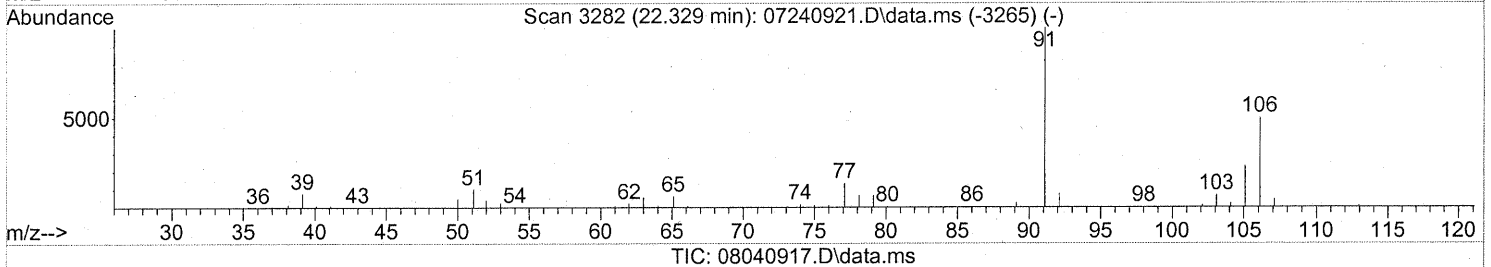
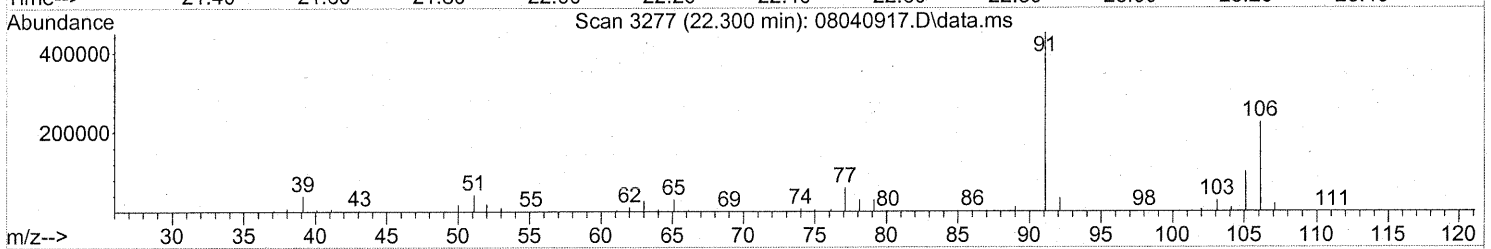
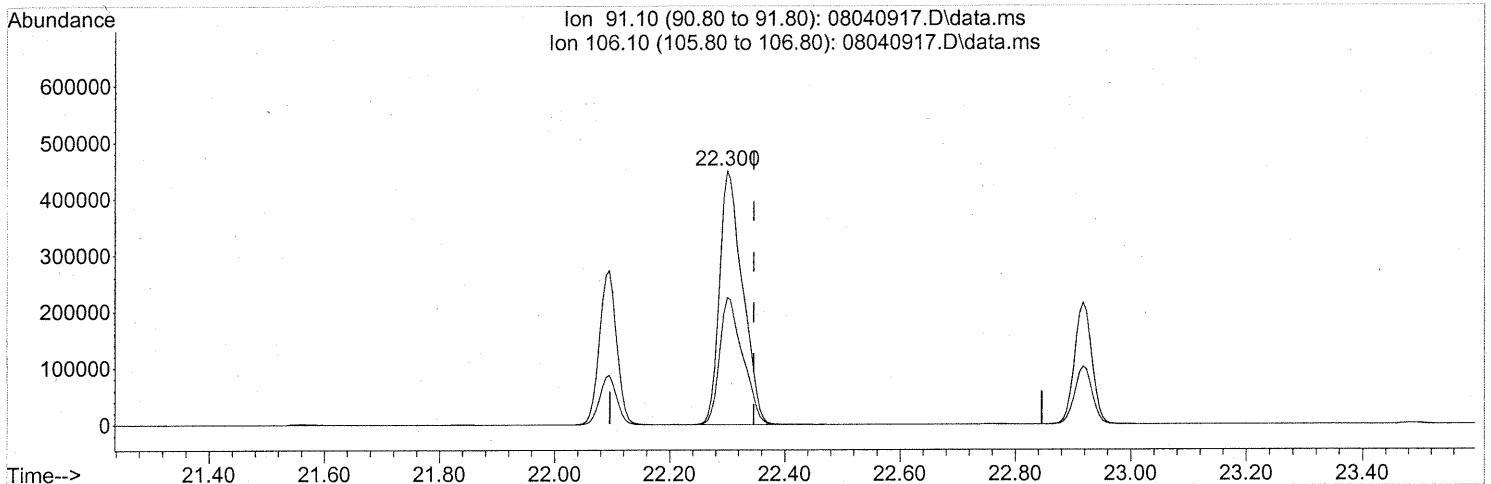
(66) Ethylbenzene (T)
 22.095min (-0.011) 4.92ng
 response 569047

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	31.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

22.300min (-0.046) 13.18ng

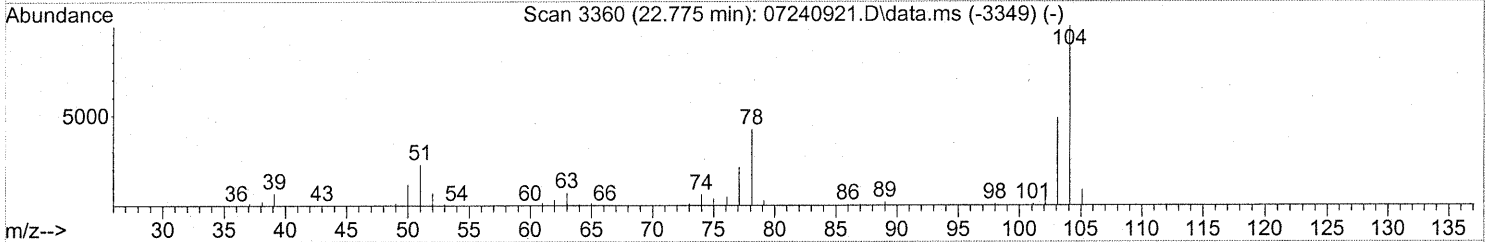
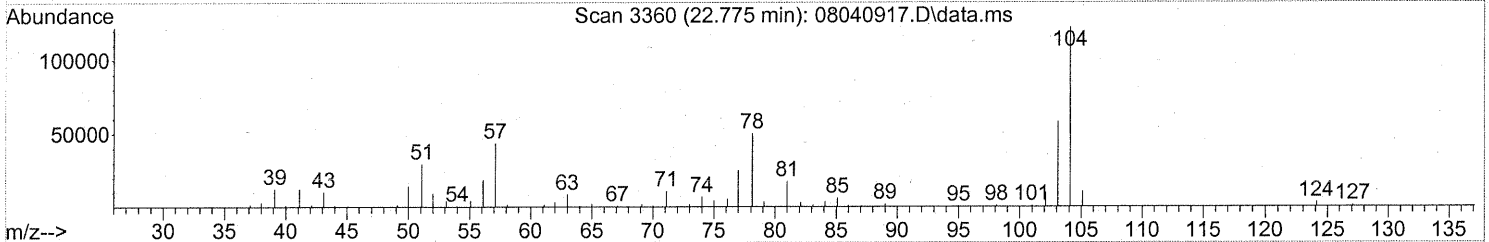
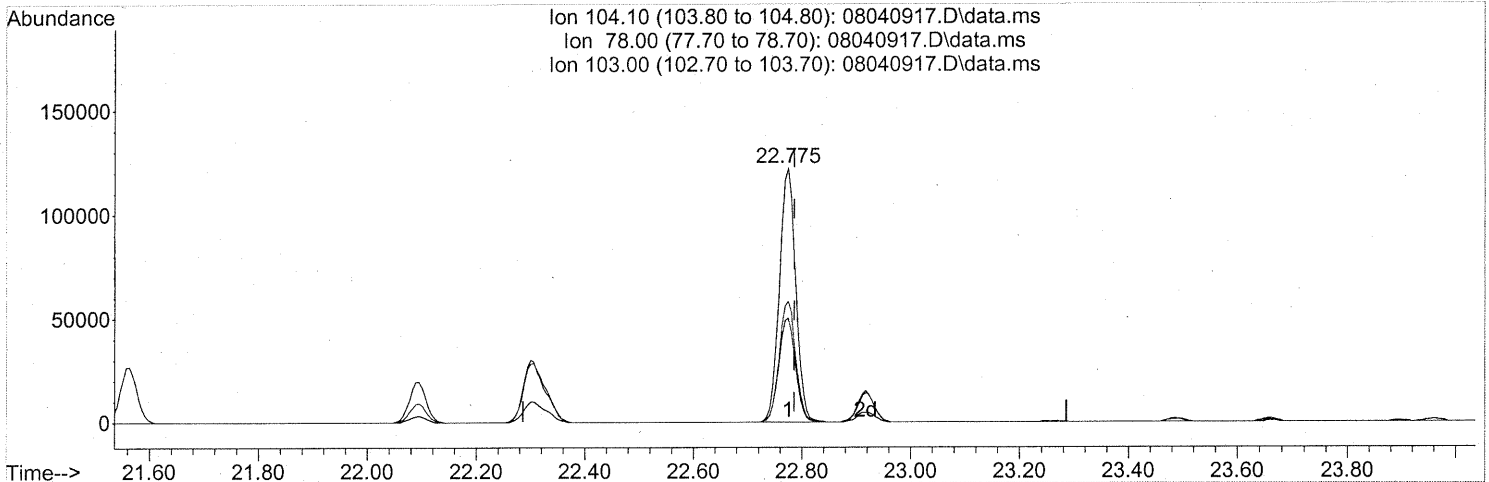
response 1258367

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



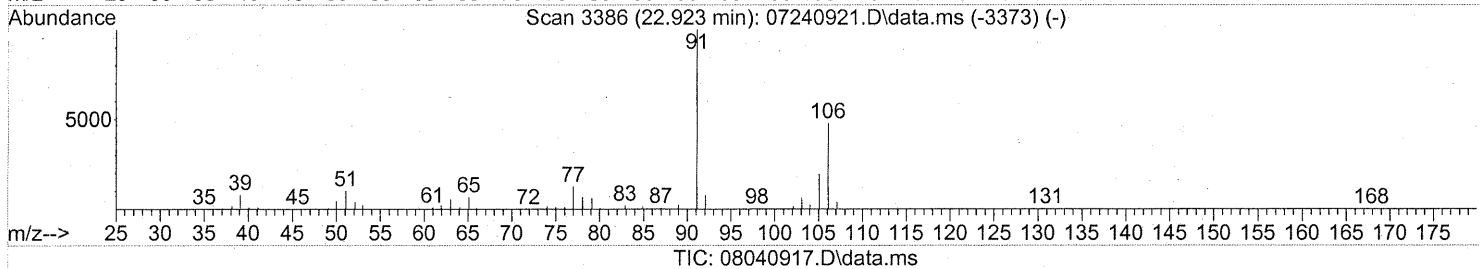
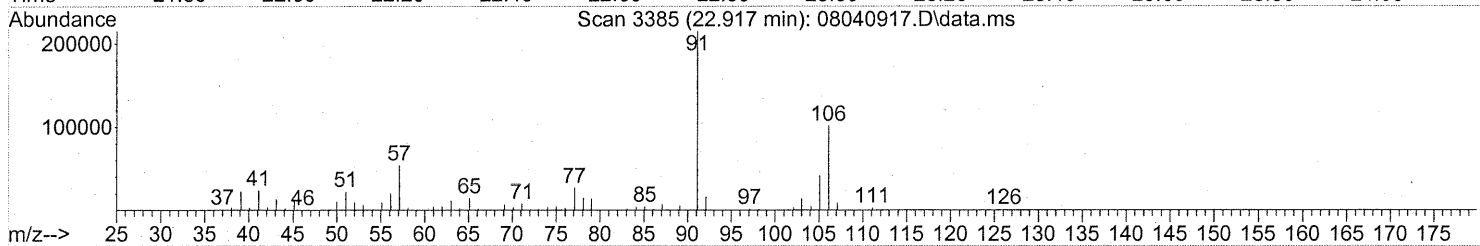
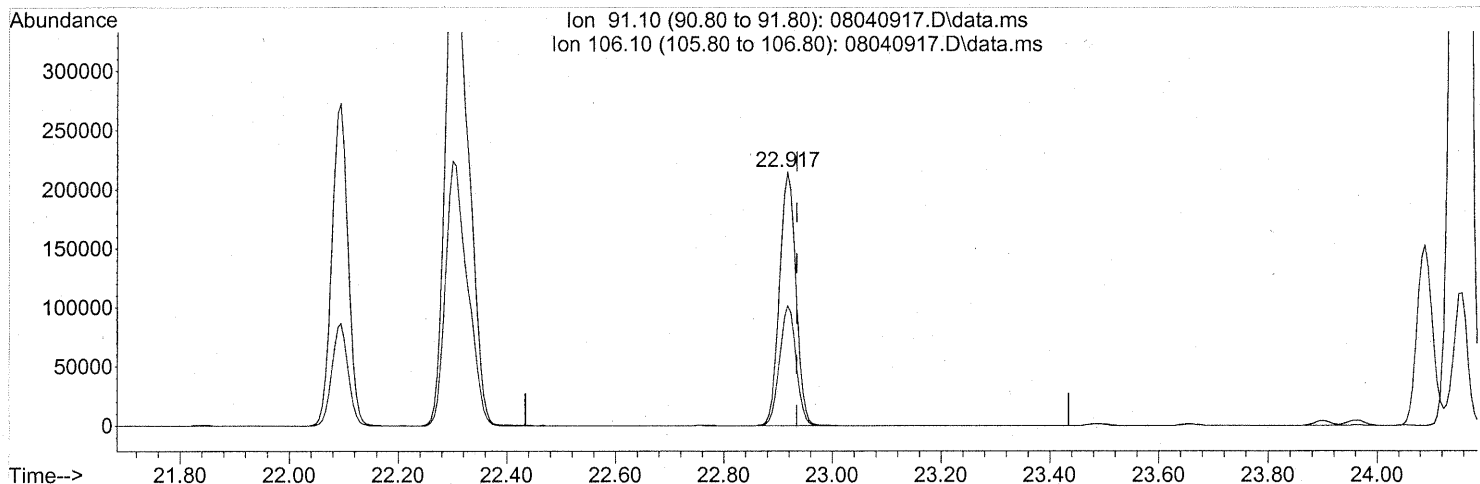
(69) Styrene (T)
 22.775min (-0.011) 3.64ng
 response 256149

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.71
103.00	48.70	48.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



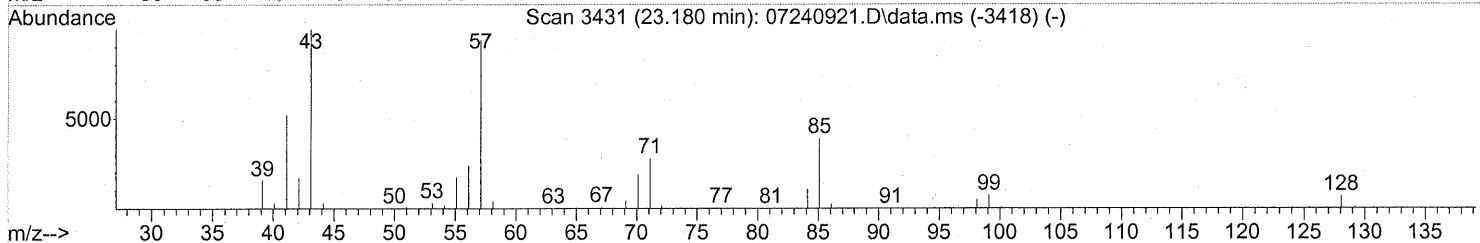
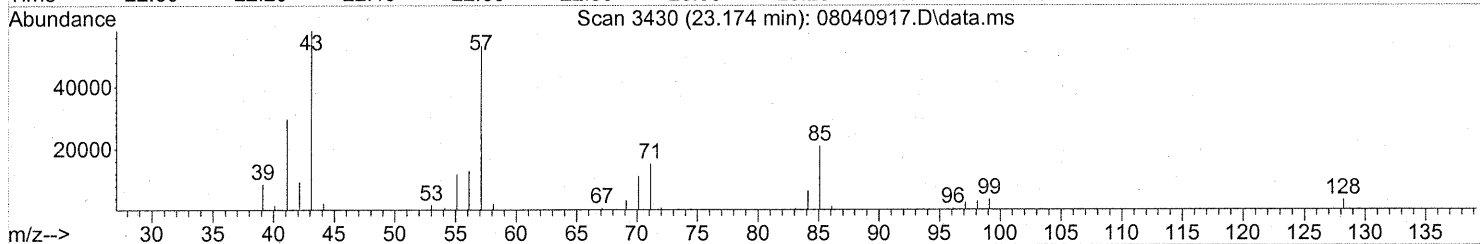
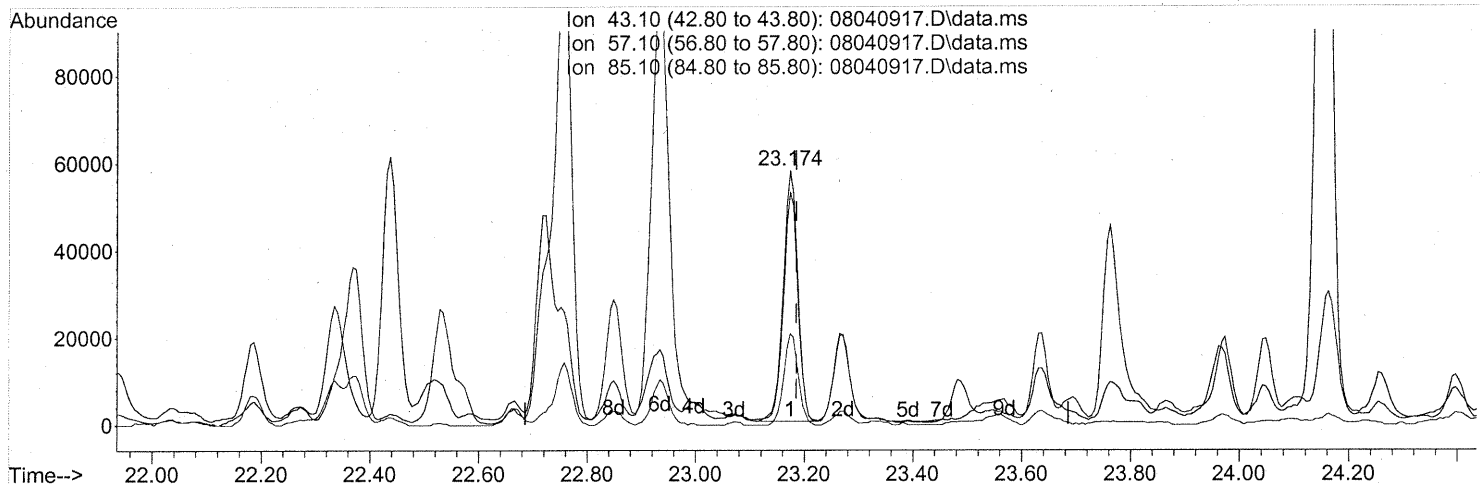
(70) o-Xylene (T)
 22.917min (-0.017) 4.72ng
 response 448879

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	47.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



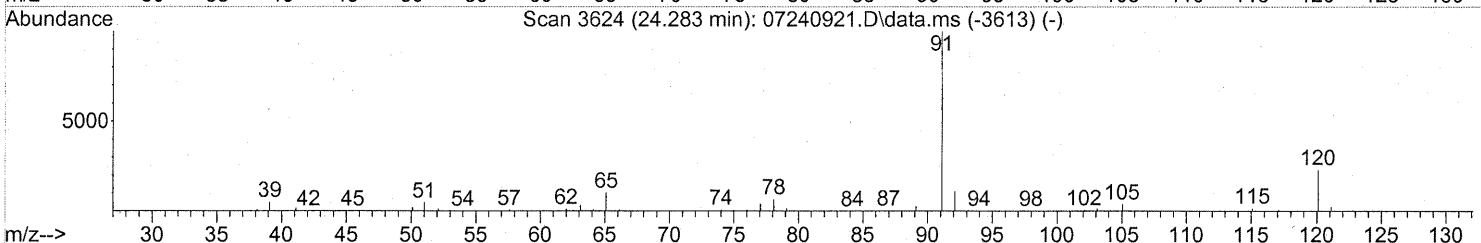
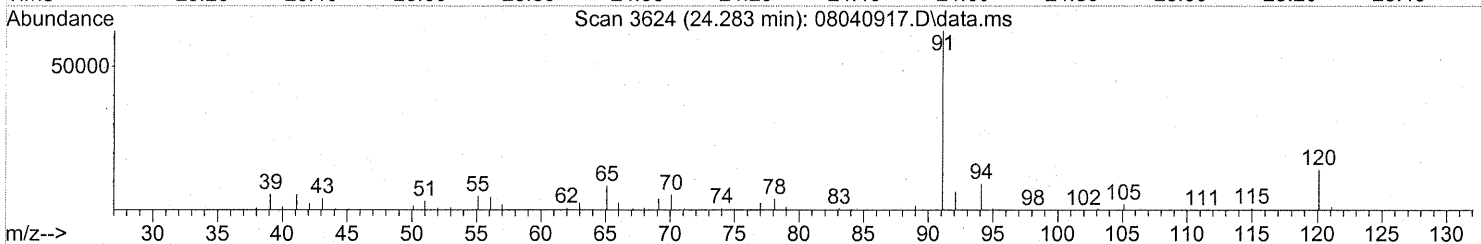
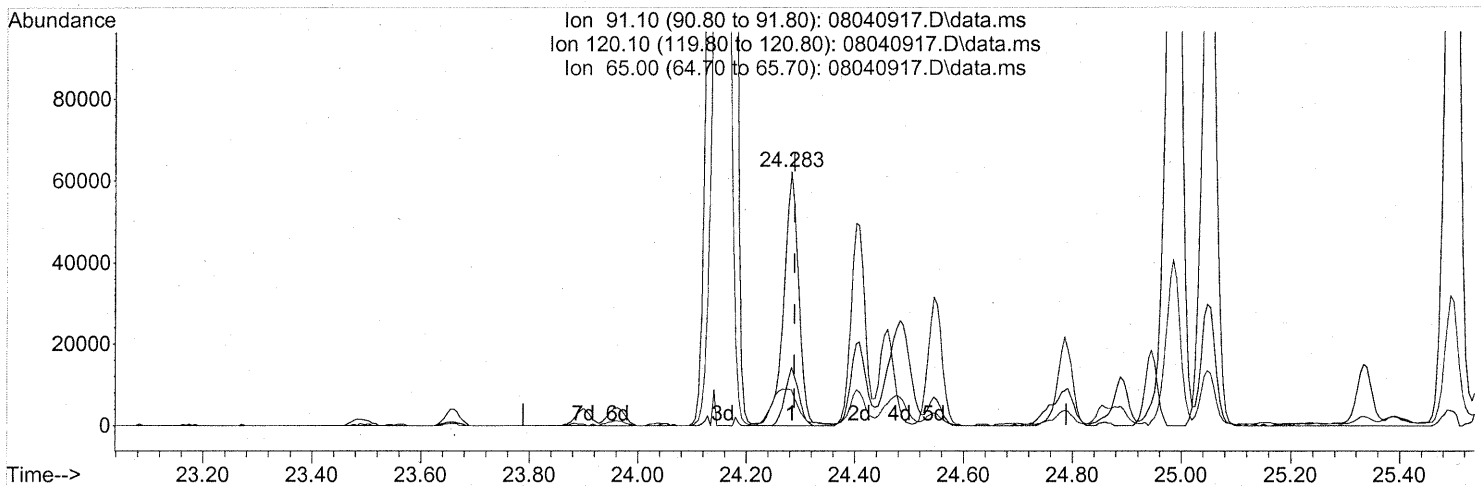
(71) n-Nonane (T)
 23.174min (-0.011) 2.31ng
 response 107192

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	91.00
85.10	38.80	36.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.006) 0.79ng

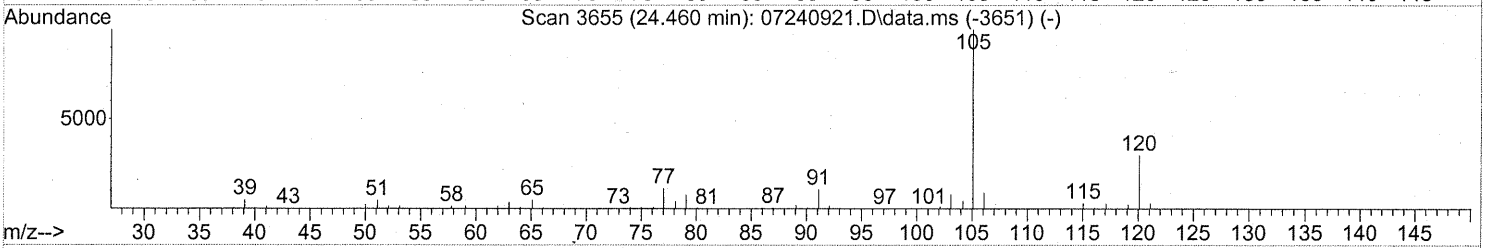
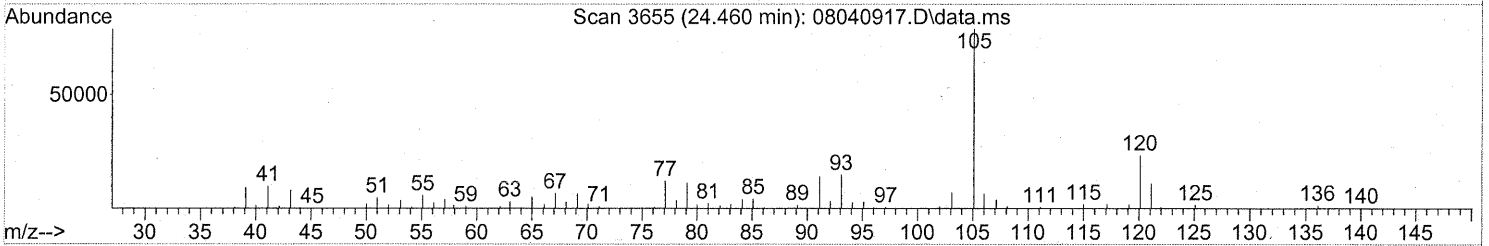
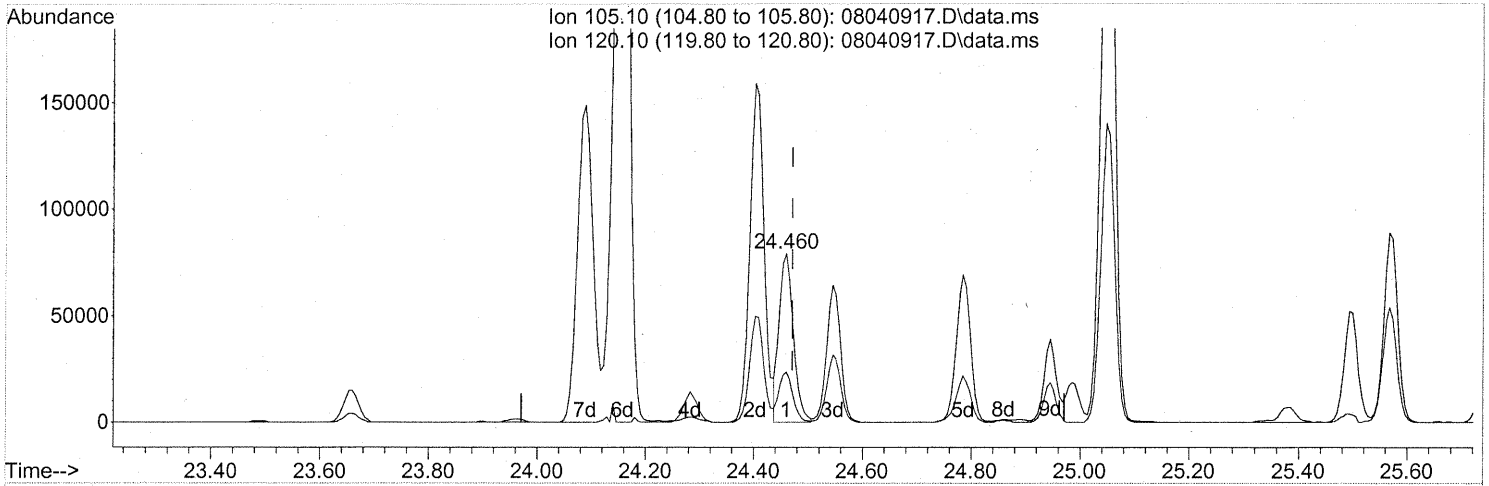
response 119835

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	20.51
65.00	10.20	25.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

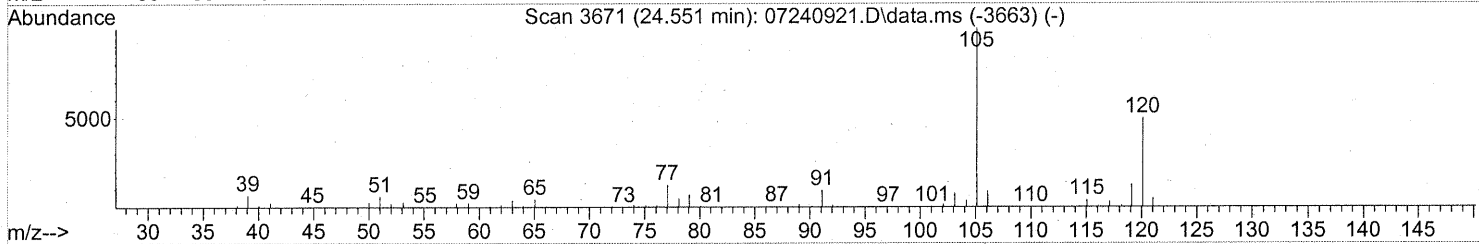
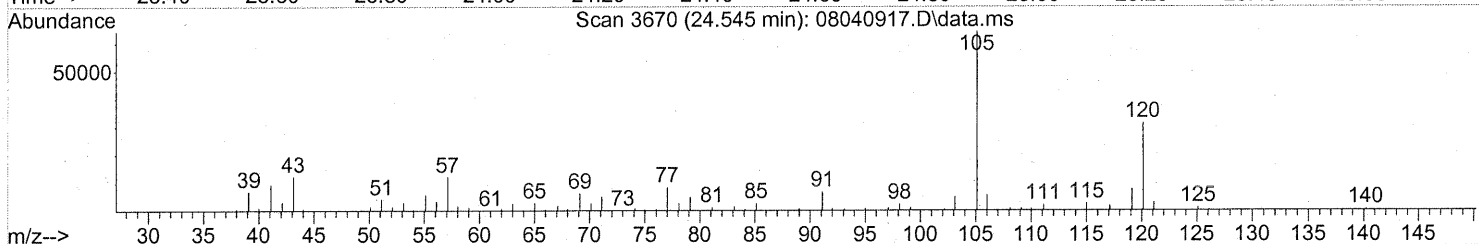
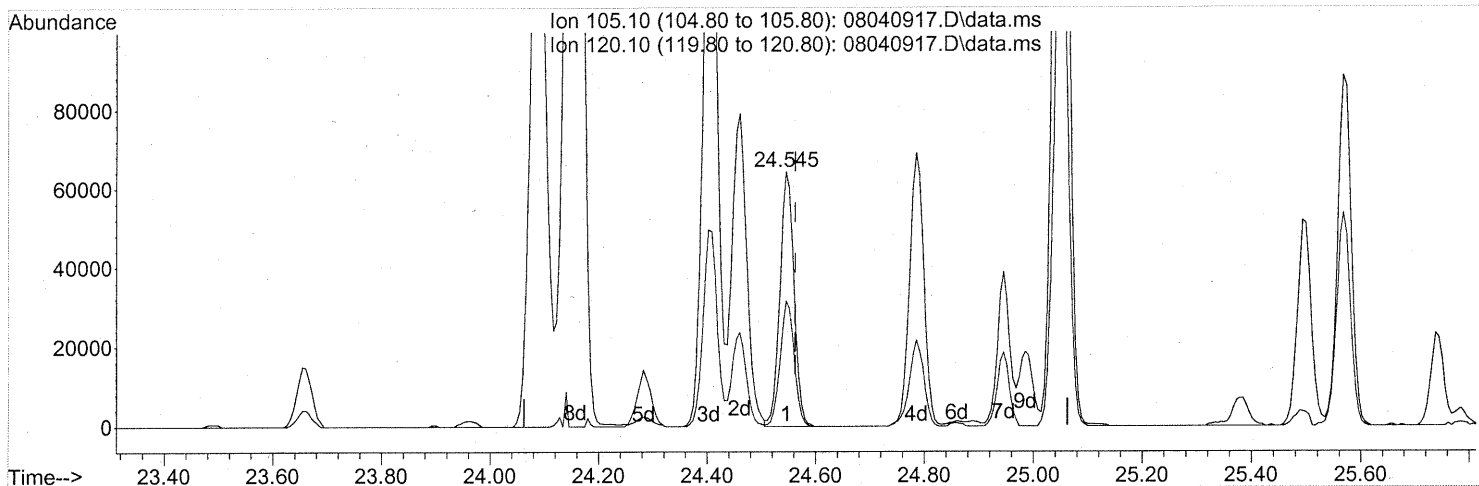
(78) 4-Ethyltoluene (T)
 24.460min (-0.011) 1.20ng
 response 143507

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	29.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

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

24.545min (-0.017) 1.16ng

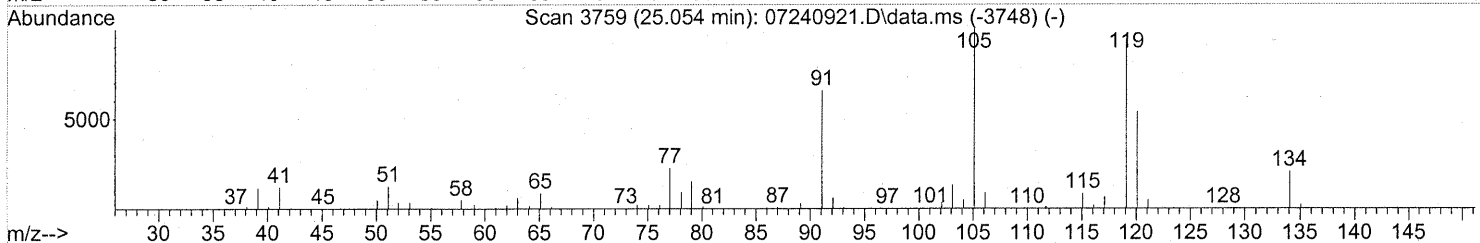
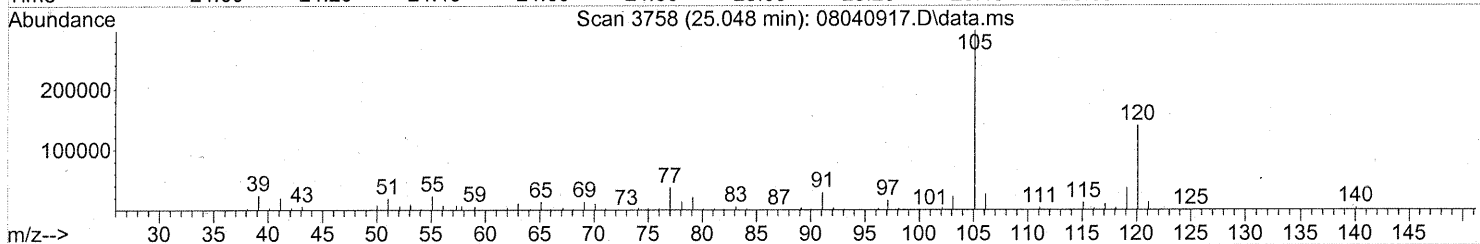
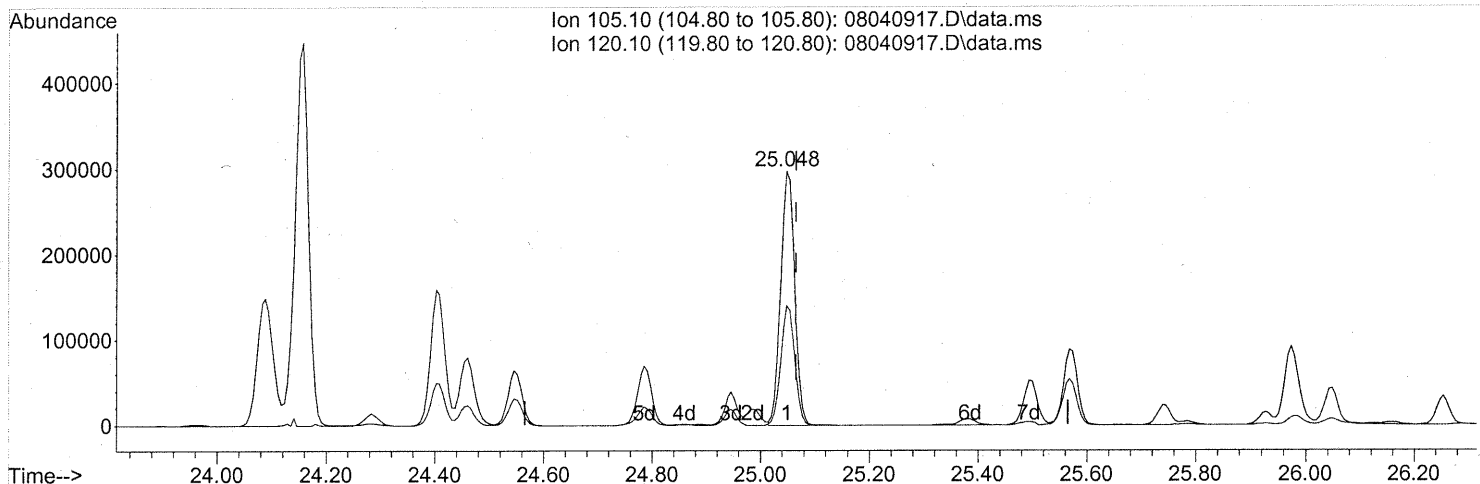
response 115575

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	48.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

25.048min (-0.017) 4.73ng

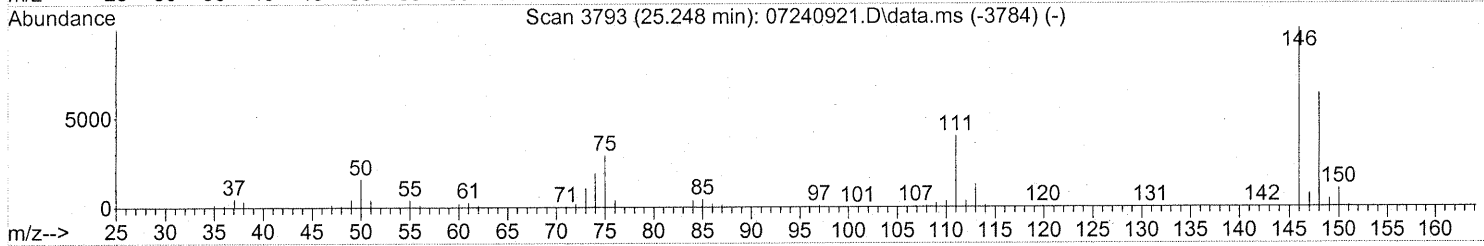
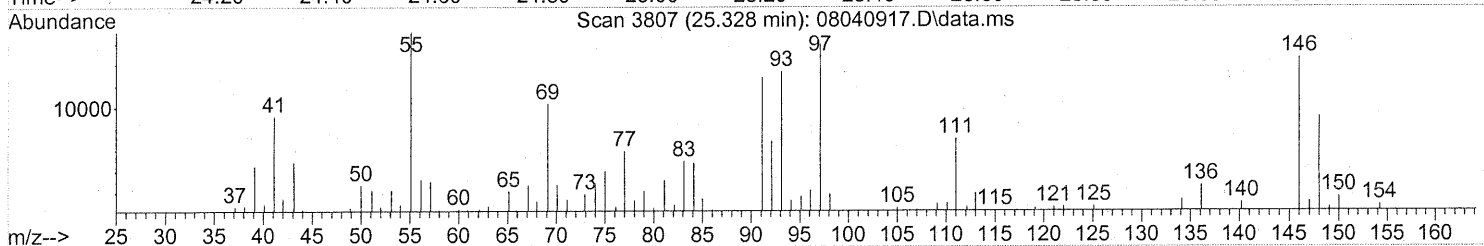
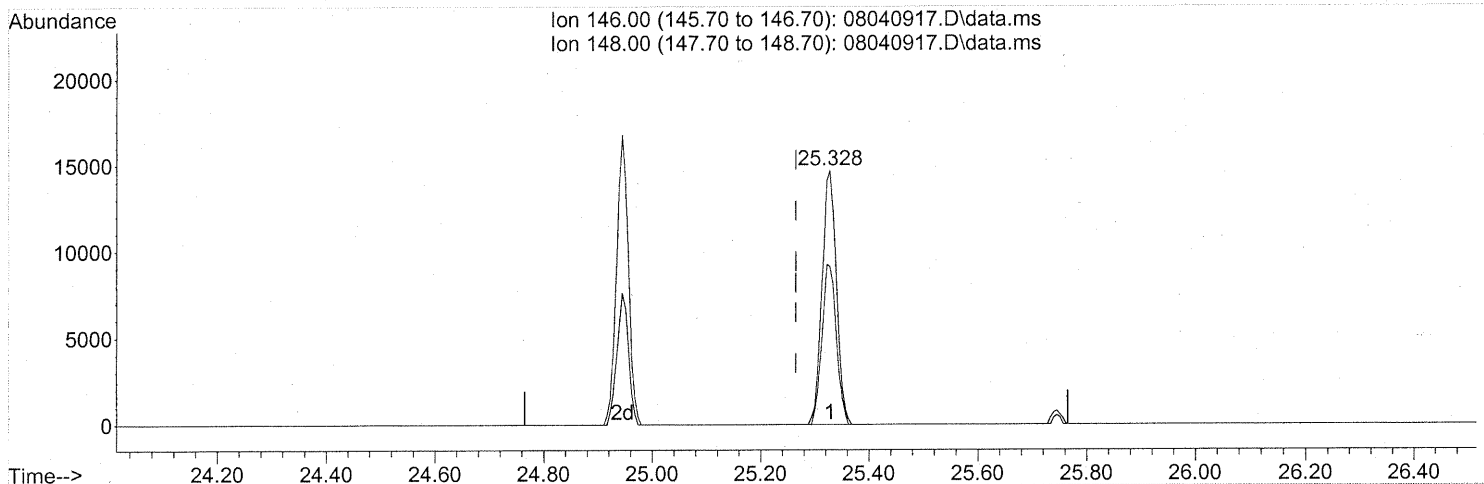
response 528245

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.328min (+0.063) 0.46ng

response 27118

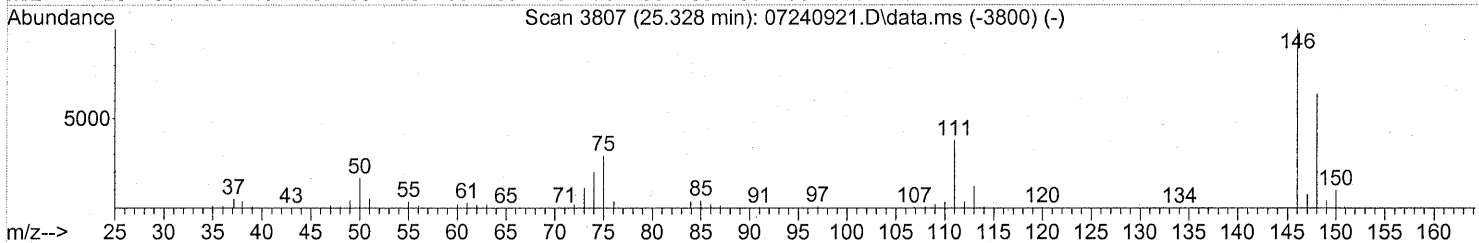
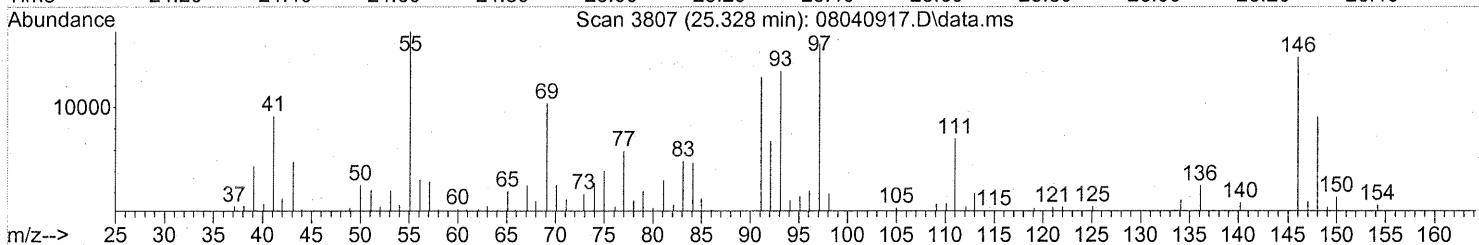
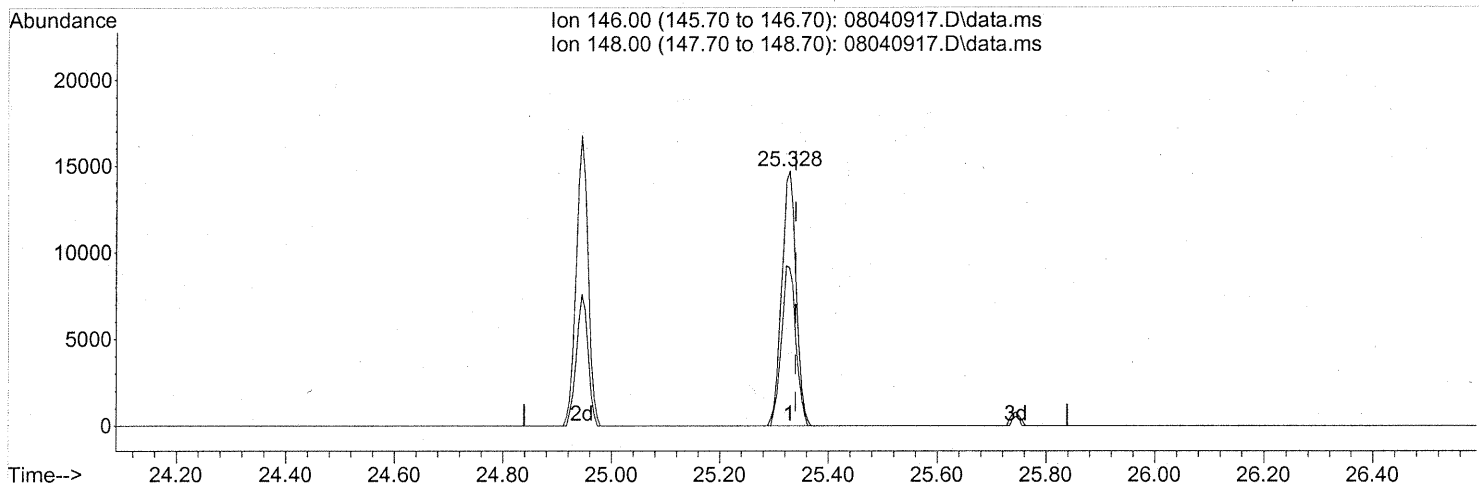
Ion	Exp%	Act%
146.00	100	100
148.00	63.60	62.73
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
vm 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.44ng

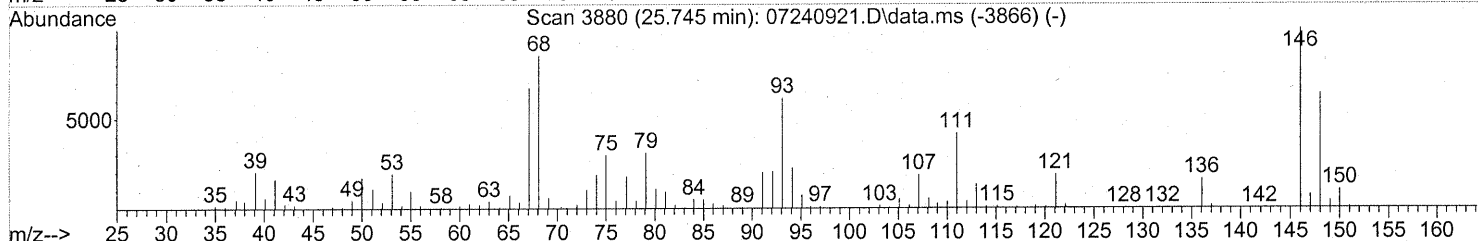
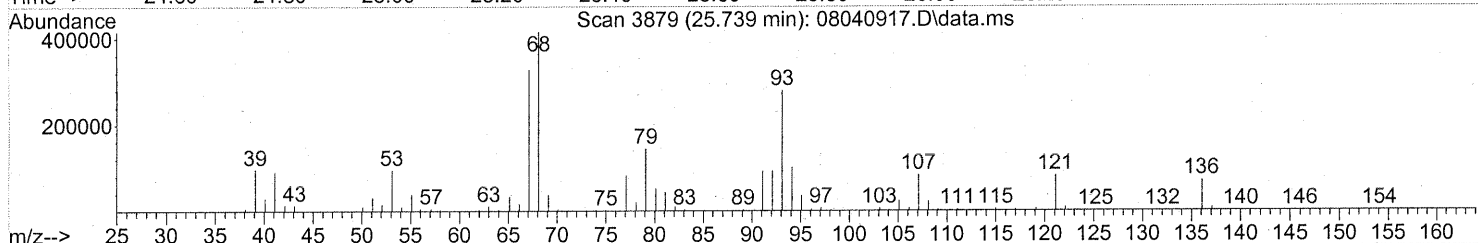
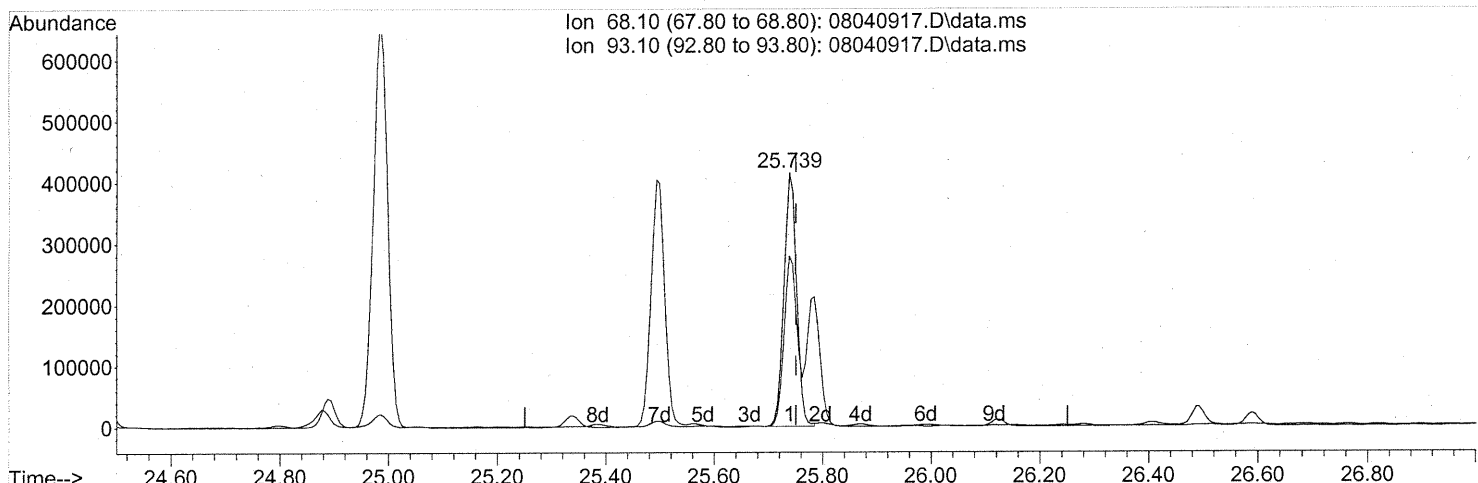
response 27118

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	62.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

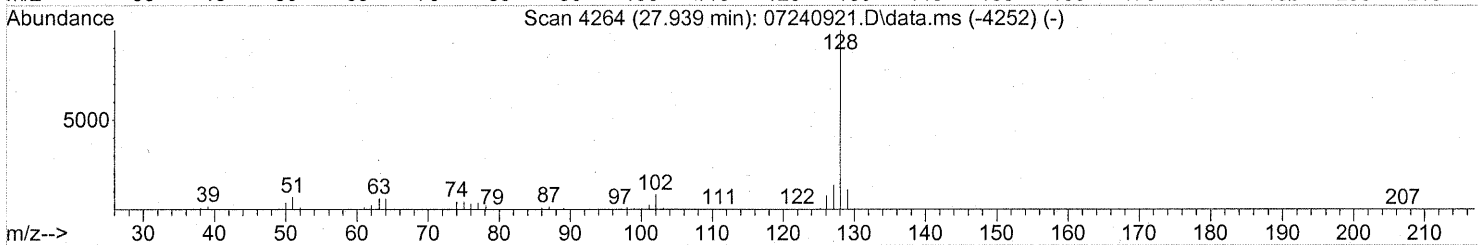
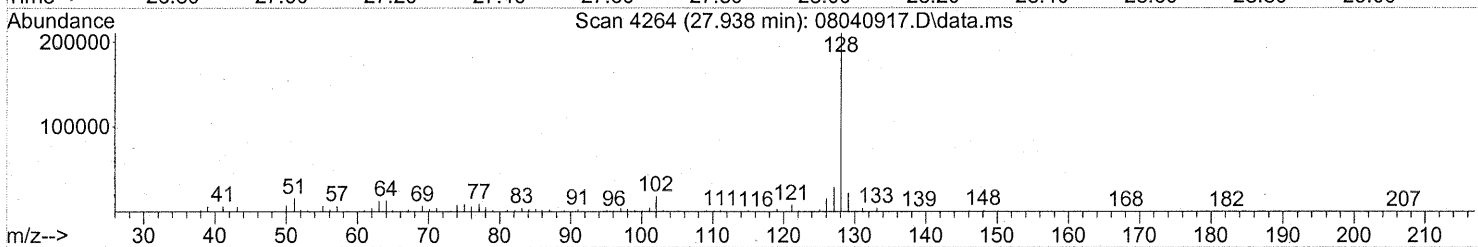
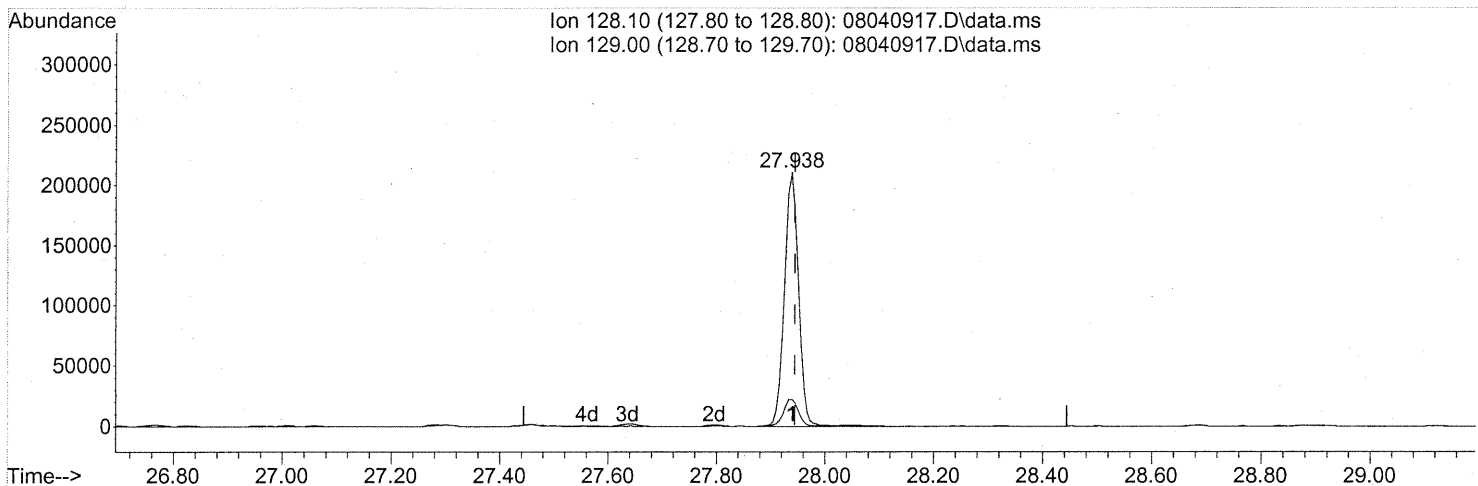
(91) d-Limonene (T)
 25.739min (-0.012) 15.16ng
 response 672798

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	70.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040917.D
 Acq On : 4 Aug 2009 19:00
 Operator : EM
 Sample : P0902624-005 (1000ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 15:19:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040917.D\data.ms

(95) Naphthalene (T)

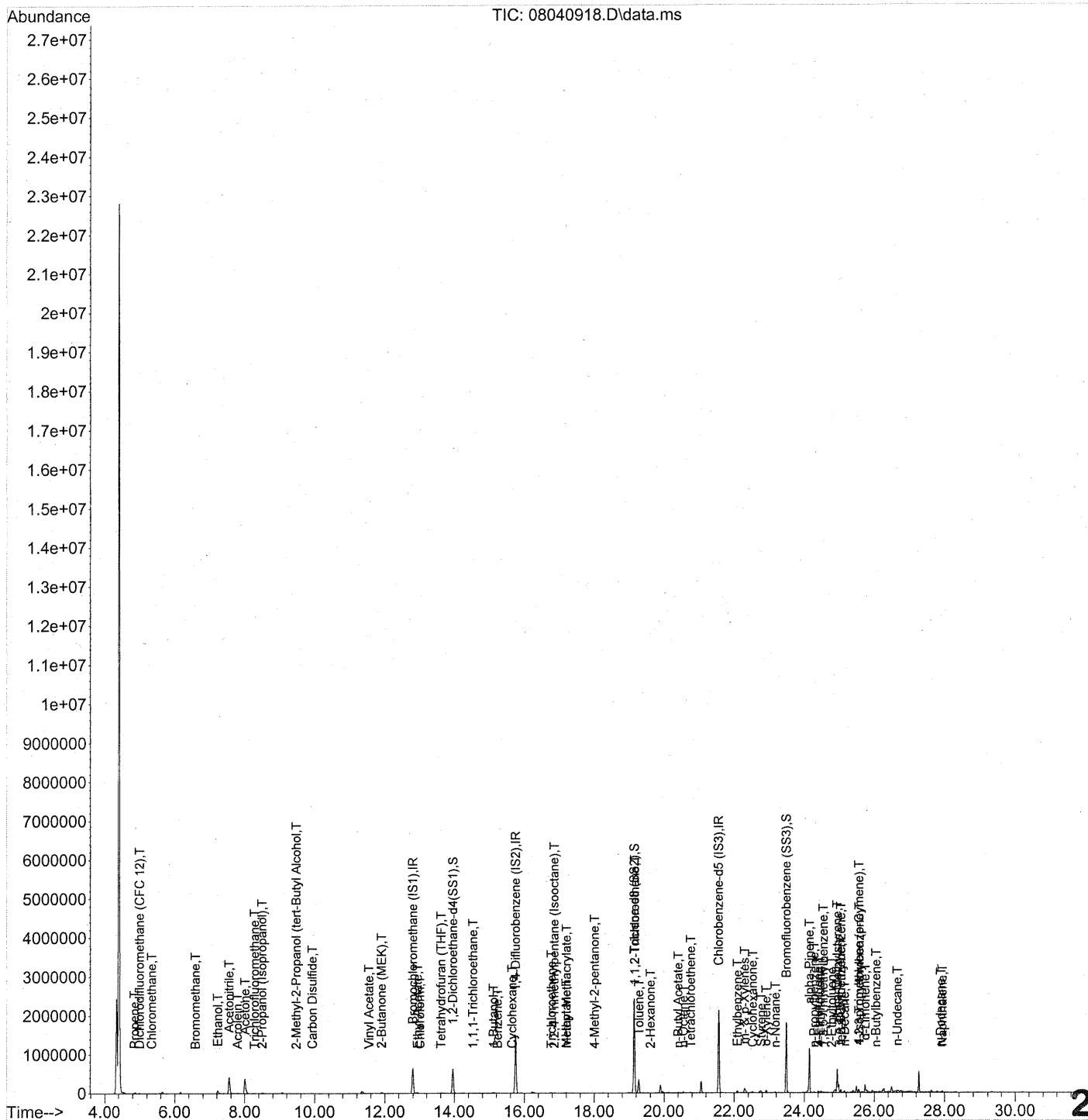
27.938min (-0.006) 2.78ng

response 380586

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	11.27
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040918.D
 Acq On : 4 Aug 2009 19:42
 Operator : EM
 Sample : P0902624-005 dil (100ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040918.D
 Acq On : 4 Aug 2009 19:42
 Operator : EM
 Sample : P0902624-005 dil (100ml)
 Misc : Environmental H & E 99445 ✓
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	352673	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1771911	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	863038	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	621557	24.911	ng	-0.03 ✓
Spiked Amount	25.000			Recovery =	99.64%	
57) Toluene-d8 (SS2)	19.15	98	2084417	24.413	ng	-0.01 ✓
Spiked Amount	25.000			Recovery =	97.64%	
73) Bromofluorobenzene (SS3)	23.49	174	636920	24.812	ng	0.00 ✓
Spiked Amount	25.000			Recovery =	99.24%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	6017	0.270	ng	# 29
3) Dichlorodifluoromethan...	4.99	85	14590	0.329	ng	95
4) Chloromethane	5.34	50	5068	0.152	ng	87
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	6.59	94	1124	0.054	ng	80
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.23	45	131286	8.893	ng	94
11) Acetonitrile	7.55	41	650166	19.477	ng	100
12) Acrolein	7.79	56	5332	0.495	ng	100
13) Acetone	8.01	58	212348	12.646	ng	98
14) Trichlorofluoromethane	8.28	101	6124	0.158	ng	96
15) 2-Propanol (Isopropanol)	8.49	45	35584	0.805	ng	89
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.47	59	5151	0.104	ng	# 65
19) Methylene Chloride	9.53	84	516	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	9.93	76	14225	0.188	ng	91
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	11.35	73	140	N.D.		
26) Vinyl Acetate	11.54	86	1361	0.340	ng	# 1
27) 2-Butanone (MEK)	11.91	72	11744	0.917	ng	# 80
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.93	61	2948	0.351	ng	95
31) n-Hexane	12.93	57	1905	N.D.		

288

em 8/6/09

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040918.D
 Acq On : 4 Aug 2009 19:42
 Operator : EM
 Sample : P0902624-005 dil (100ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.01	83	2411	0.068	ng	82
34) Tetrahydrofuran (THF)	13.62	72	2636	0.218	ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	335	N.D.		
38) 1,1,1-Trichloroethane	14.53	97	2023	0.062	ng #	66
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.11	56	26414	1.200	ng	83
41) Benzene	15.23	78	11342	0.120	ng	97
42) Carbon Tetrachloride	15.45	117	949	N.D.		
43) Cyclohexane	15.65	84	2911	0.082	ng #	82
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	16.77	130	6517	0.270	ng	97
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	10198	0.111	ng	88
50) Methyl Methacrylate	17.20	100	1183	0.133	ng #	1
51) n-Heptane	17.20	71	4744	0.207	ng	93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.02	58	1461	0.082	ng #	31
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	174944	8.812	ng #	8
58) Toluene	19.28	91	321744	3.078	ng	100
59) 2-Hexanone	19.61	43	4339	0.097	ng #	47
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	14729	0.295	ng	99
63) n-Octane	20.56	57	4409	0.216	ng	97
64) Tetrachloroethene	20.76	166	5289	0.191	ng	94
65) Chlorobenzene	21.66	112	716	N.D.		
66) Ethylbenzene	22.09	91	47990	0.422	ng	98
67) m- & p-Xylenes	22.30	91	104446	1.114	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.77	104	20224	0.293	ng	99
70) o-Xylene	22.92	91	36464	0.391	ng	99
71) n-Nonane	23.17	43	9056	0.199	ng	95
72) 1,1,2,2-Tetrachloroethane	22.99	83	218	N.D.		
74) Cumene	23.65	105	2610	N.D.		
75) alpha-Pinene	24.15	93	525364	8.866	ng	98
76) n-Propylbenzene	24.28	91	9833	0.066	ng	93
77) 3-Ethyltoluene	24.40	105	24905	0.212	ng	100
78) 4-Ethyltoluene	24.46	105	12629	0.107	ng	95
79) 1,3,5-Trimethylbenzene	24.55	105	10024	0.102	ng	95

289

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040918.D
 Acq On : 4 Aug 2009 19:42
 Operator : EM
 Sample : P0902624-005 dil (100ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

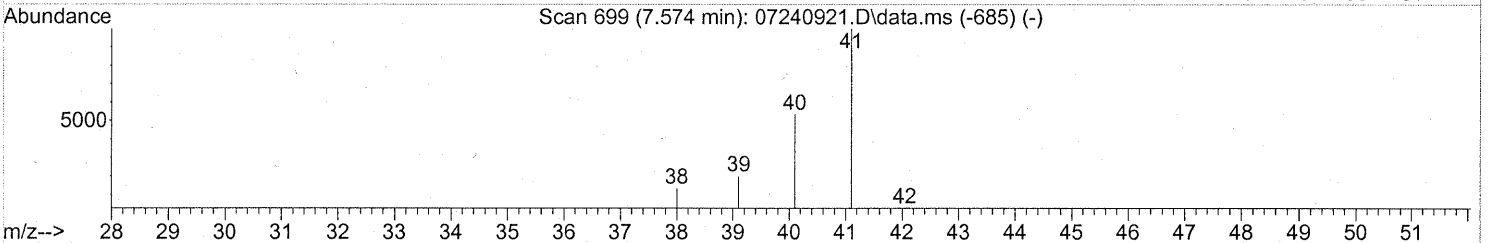
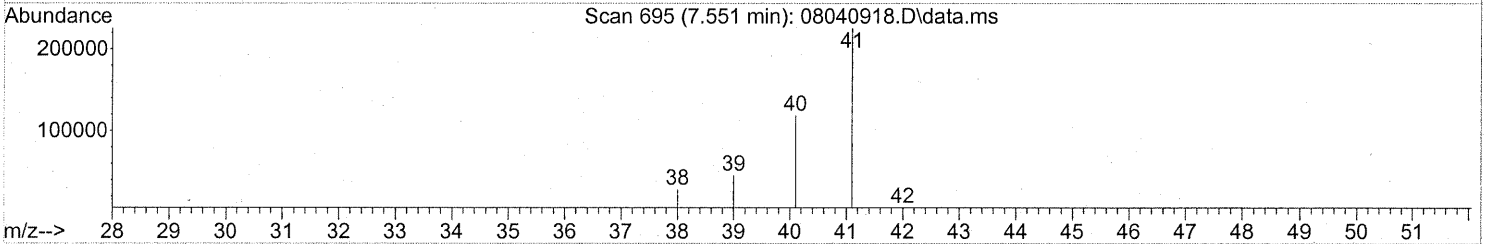
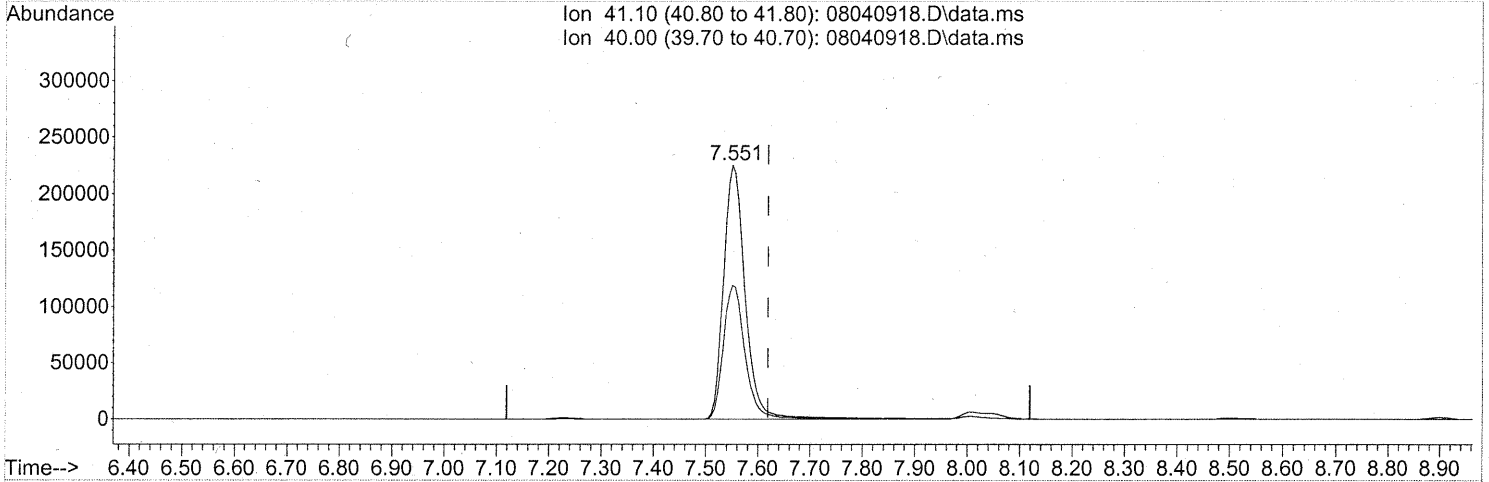
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.94	118	8396	0.153	ng #	3
81) 2-Ethyltoluene	24.79	105	10427	0.085	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	42977	0.392	ng	91
83) n-Decane	25.15	57	14234	0.269	ng	89
84) Benzyl Chloride	25.33	91	2625	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	2142	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	2142	N.D.		
87) sec-Butylbenzene	25.38	105	927	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	29295	0.212	ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	12901	0.116	ng	84
90) 1,2-Dichlorobenzene	25.33	146	2142	N.D.		
91) d-Limonene	25.74	68	49284	1.131	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	20568	0.379	ng	85
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	30360	0.226	ng	98
96) n-Dodecane	27.89	57	6816	0.118	ng	92
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.52	55	14765	0.468	ng	94
99) tert-Butylbenzene	25.05	119	5661	0.051	ng #	54
100) n-Butylbenzene	26.05	91	5651	0.052	ng #	17

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040918.D
 Acq On : 4 Aug 2009 19:42
 Operator : EM
 Sample : P0902624-005 dil (100ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



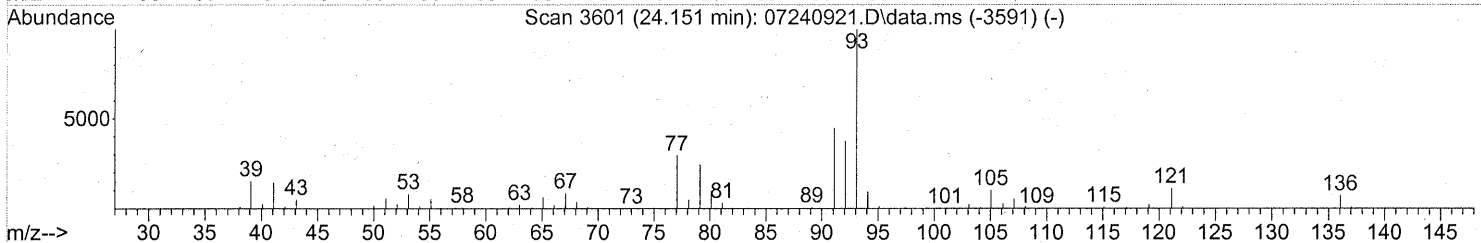
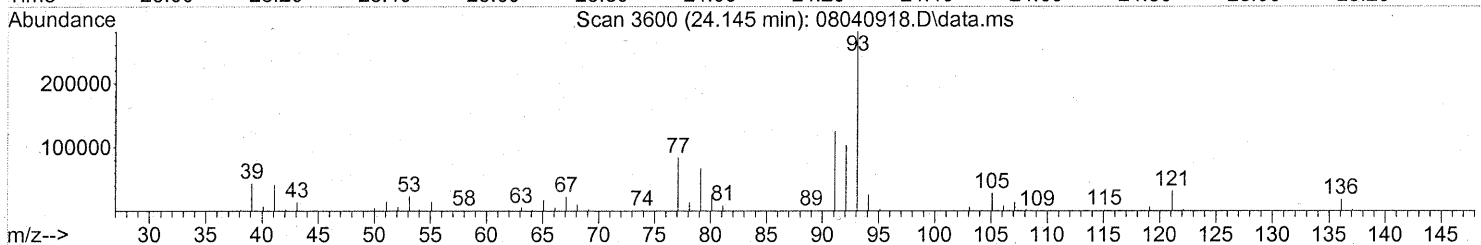
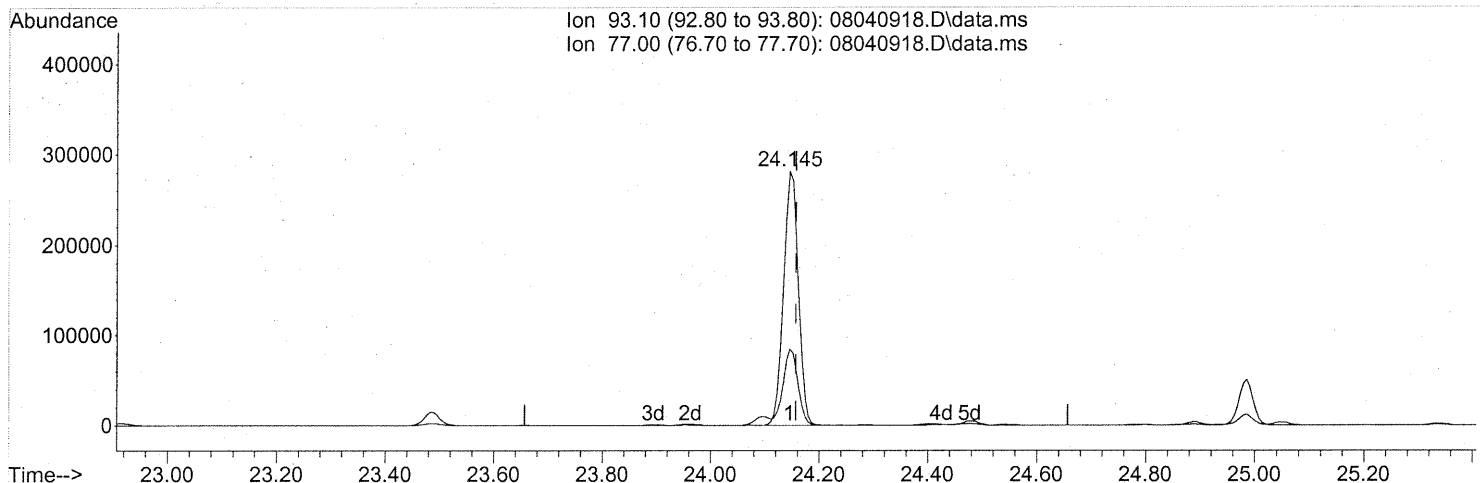
(11) Acetonitrile (T)
 7.551min (-0.069) 19.48ng
 response 650166

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	53.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040918.D
 Acq On : 4 Aug 2009 19:42
 Operator : EM
 Sample : P0902624-005 dil (100ml)
 Misc : Environmental H & E 99445
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 07:55:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040918.D\data.ms

(75) alpha-Pinene (T)
 24.145min (-0.011) 8.87ng
 response 525364

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	30.53
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, Incorporated

Client Sample ID: 99448

Client Project ID: 16512

CAS Project ID: P0902624

CAS Sample ID: P0902624-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01082

Date Collected: 7/30/09

Date Received: 7/31/09

Date Analyzed: 8/4/09

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
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	5.6	5.0	2.3	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: _____

8/14/09

293

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99448

Client Project ID: 16512

CAS Project ID: P0902624

CAS Sample ID: P0902624-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01082

Date Collected: 7/30/09

Date Received: 7/31/09

Date Analyzed: 8/4/09

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: _____

8/14/09 **294**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99448
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P0902624-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01082

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
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	0.10	ND	0.013	
91-20-3	Naphthalene	ND	0.20	ND	0.038	
87-68-3	Hexachlorobutadiene	ND	0.10	ND	0.0094	

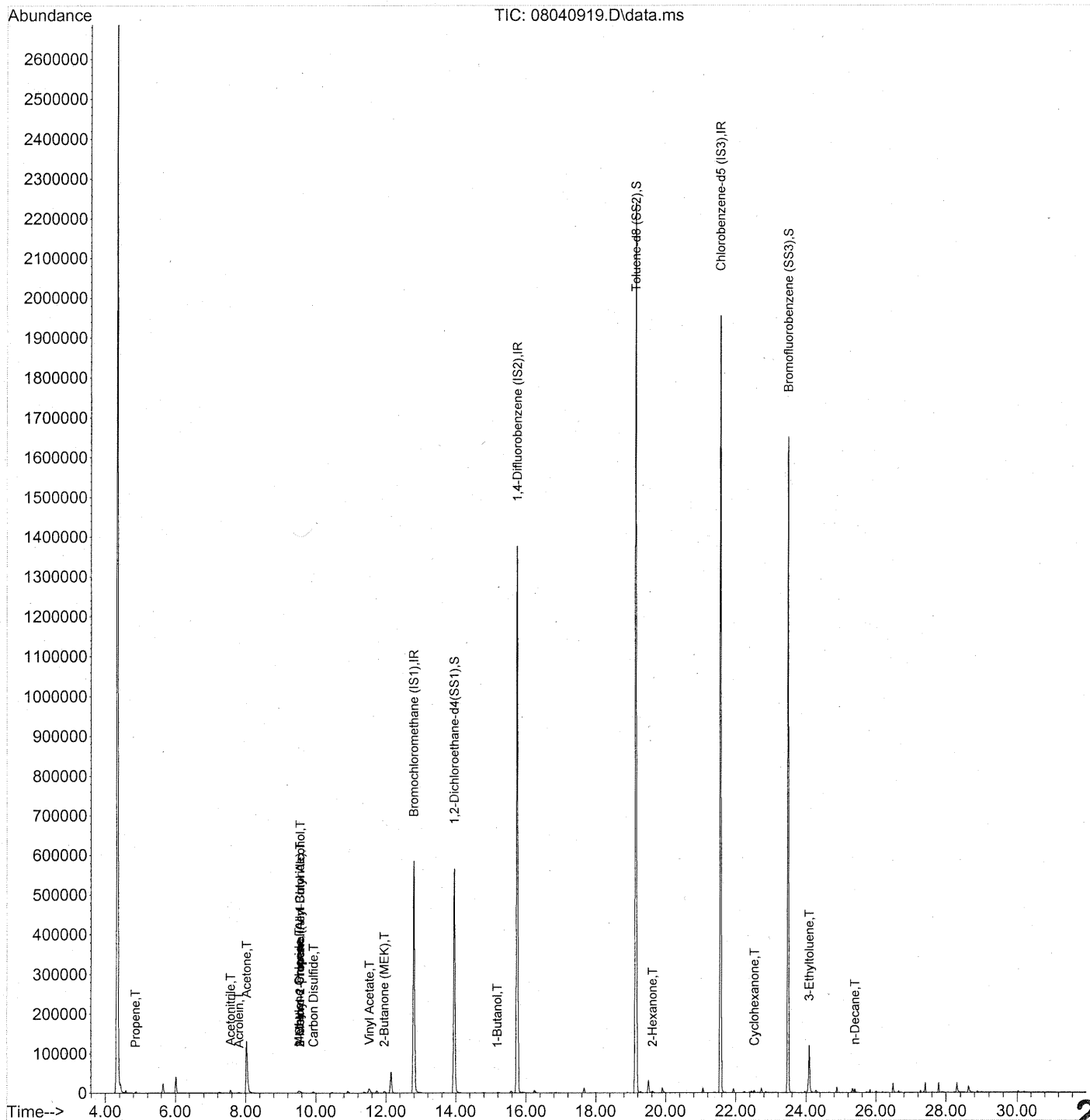
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

P

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040919.D
 Acq On : 4 Aug 2009 20:24
 Operator : EM
 Sample : P0902624-006 (1000ml)
 Misc : Environmental H & E 99448
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 06 15:18:43 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040919.D
 Acq On : 4 Aug 2009 20:24
 Operator : EM
 Sample : P0902624-006 (1000ml)
 Misc : Environmental H & E 99448 ✓
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 06 15:18:43 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	320113	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1620174	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	782486	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	566860	25.030	ng	-0.03 ✓
Spiked Amount	25.000					Recovery = 100.12%
57) Toluene-d8 (SS2)	19.14	98	1929079	24.919	ng	-0.02 ✓
Spiked Amount	25.000					Recovery = 99.68%
73) Bromofluorobenzene (SS3)	23.49	174	584341	25.107	ng	0.00 ✓
Spiked Amount	25.000					Recovery = 100.44%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	1262	0.062	ng	# 81
3) Dichlorodifluoromethan...	5.02	85	370	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	6.01	54	359	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.32	45	105	N.D.		
11) Acetonitrile	7.56	41	10452	0.345	ng	99
12) Acrolein	7.80	56	2792	0.286	ng	94
13) Acetone	8.03	58	84983	5.576	ng	97
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.54	45	112	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...	9.55	59	17865	0.396	ng	# 63
19) Methylene Chloride	9.52	84	1035	0.051	ng	83
20) 3-Chloro-1-propene (Al...	9.54	41	3505	0.161	ng	# 34
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	8036	0.117	ng	# 75
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	11.53	86	3090	0.850	ng	# 63
27) 2-Butanone (MEK)	11.95	72	2420	0.208	ng	# 25
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.		

297

em 6/8/09

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040919.D
 Acq On : 4 Aug 2009 20:24
 Operator : EM
 Sample : P0902624-006 (1000ml)
 Misc : Environmental H & E 99448
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 06 15:18:43 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 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)	13.64	72	129	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	15.18	56	1052	0.052	ng	# 55
41) Benzene	15.22	78	1054	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.74	84	534	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...	16.84	57	1982	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	0.00	97	0	N.D.	d	
58) Toluene	19.28	91	3338	N.D.		
59) 2-Hexanone	19.62	43	4053	0.099	ng	# 65
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.32	43	375	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	22.31	91	238	N.D.		
67) m- & p-Xylenes	22.31	91	238	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	23.15	43	1659	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.49	105	567	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.09	105	54379	0.510	ng	# 42
78) 4-Ethyltoluene	0.00	105	0	N.D.	d	
79) 1,3,5-Trimethylbenzene	24.26	105	106	N.D.		

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040919.D
 Acq On : 4 Aug 2009 20:24
 Operator : EM
 Sample : P0902624-006 (1000ml)
 Misc : Environmental H & E 99448
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 06 15:18:43 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

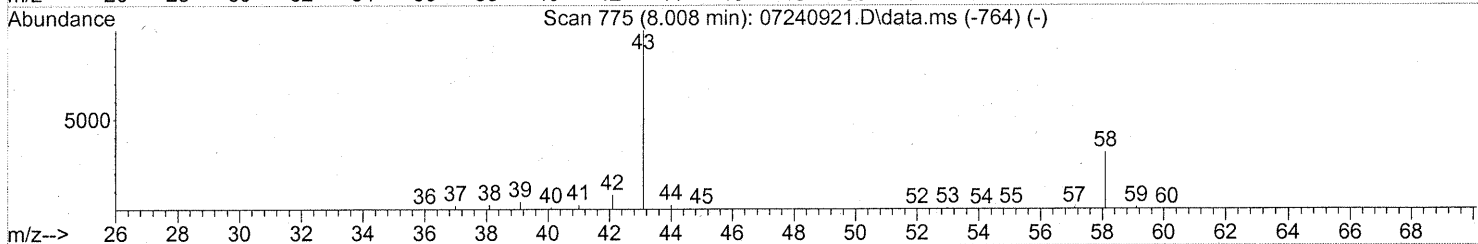
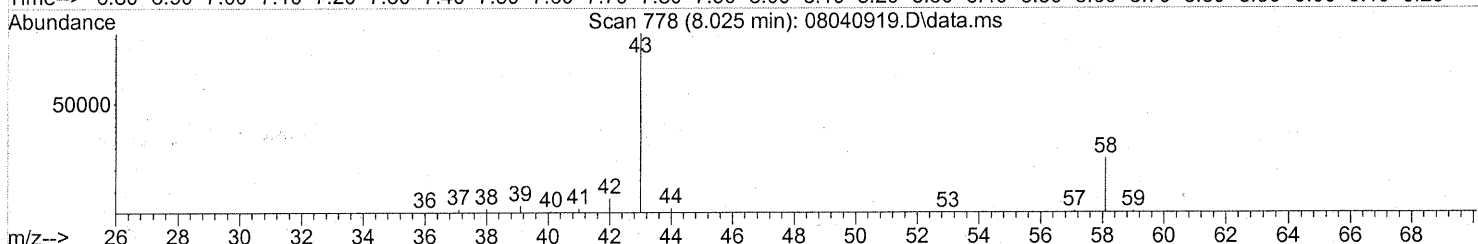
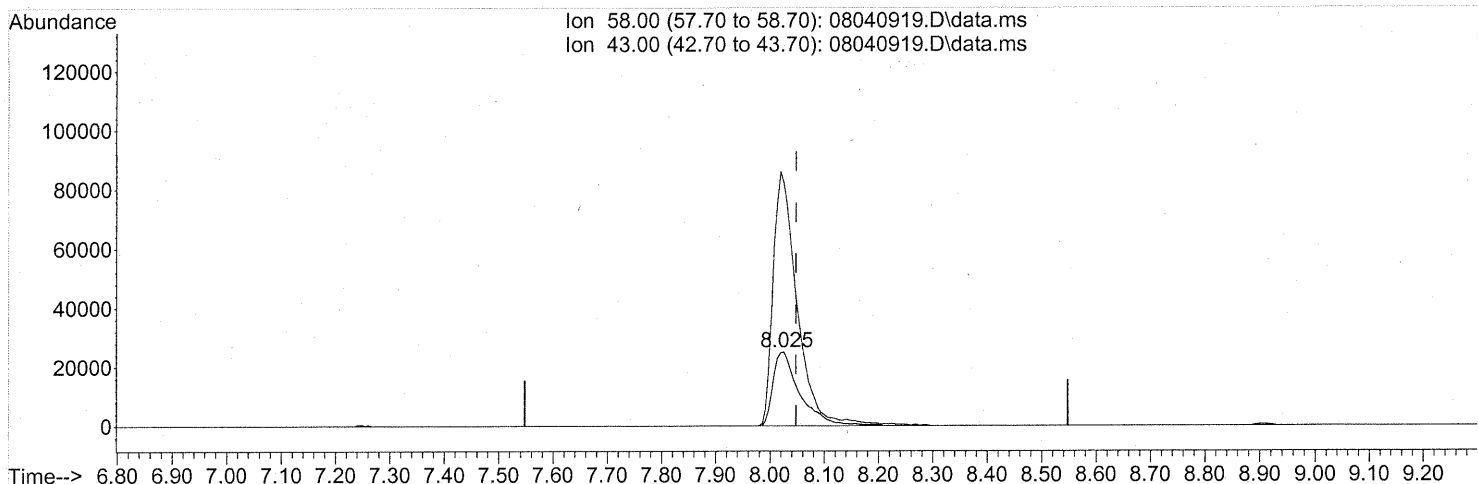
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	25.05	105	119	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	119	N.D.		
83) n-Decane	25.39	57	5547	0.115	ng	# 38
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.05	105	119	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	26.00	105	2132	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	26.65	57	1246	N.D.		
94) 1,2,4-Trichlorobenzene	27.41	180	1064	N.D.		
95) Naphthalene	27.94	128	1241	N.D.		
96) n-Dodecane	27.89	57	767	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.52	55	3296	0.115	ng	# 86
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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040919.D
 Acq On : 4 Aug 2009 20:24
 Operator : EM
 Sample : P0902624-006 (1000ml)
 Misc : Environmental H & E 99448
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 06 15:18:43 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040919.D\data.ms

(13) Acetone (T)

8.025min (-0.023) 5.58ng

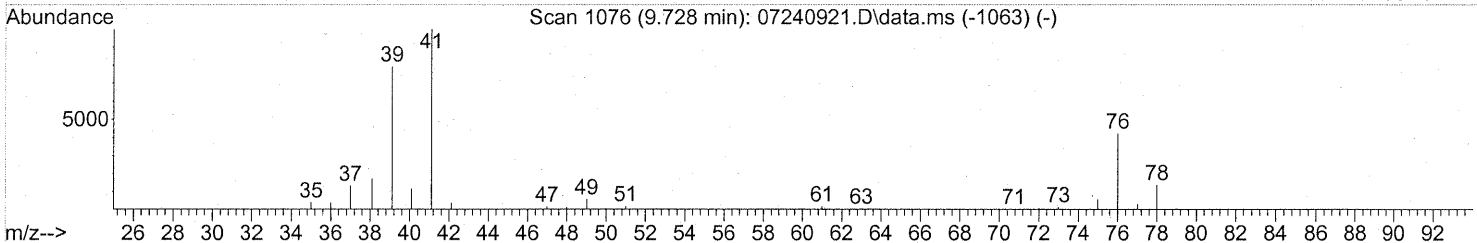
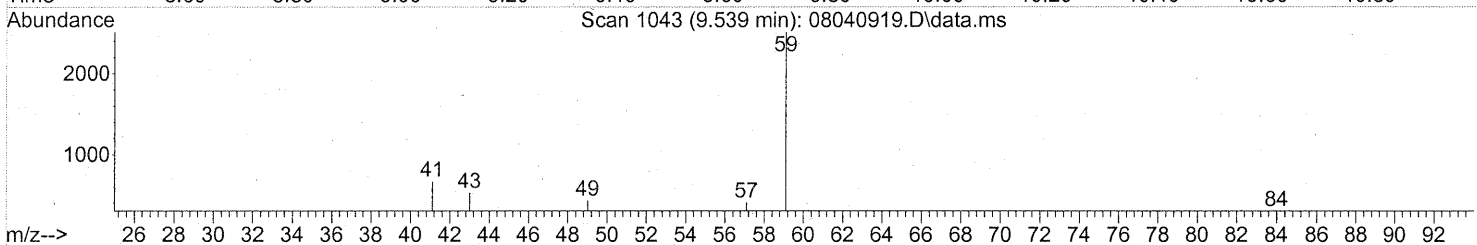
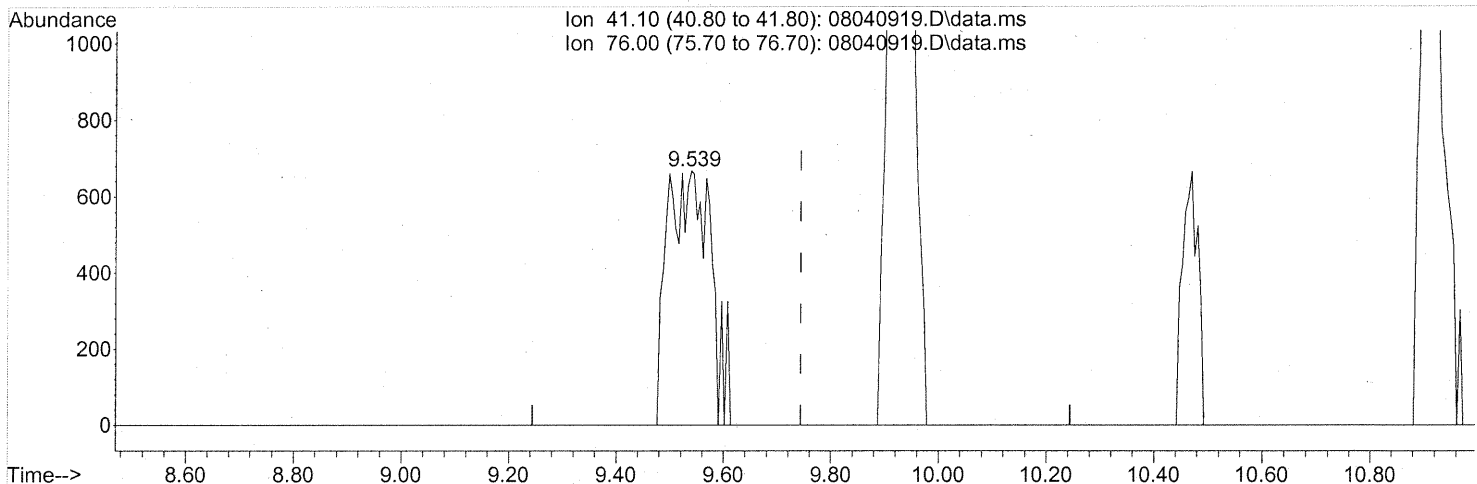
response 84983

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	310.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040919.D
 Acq On : 4 Aug 2009 20:24
 Operator : EM
 Sample : P0902624-006 (1000ml)
 Misc : Environmental H & E 99448
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 06 15:18:43 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

9.539min (-0.206) 0.16ng

response 3505

Ion	Exp%	Act%
41.10	100	100
76.00	41.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

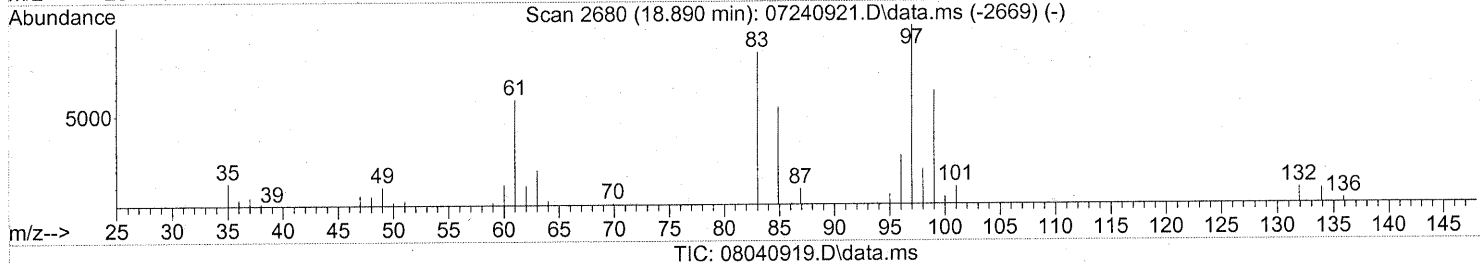
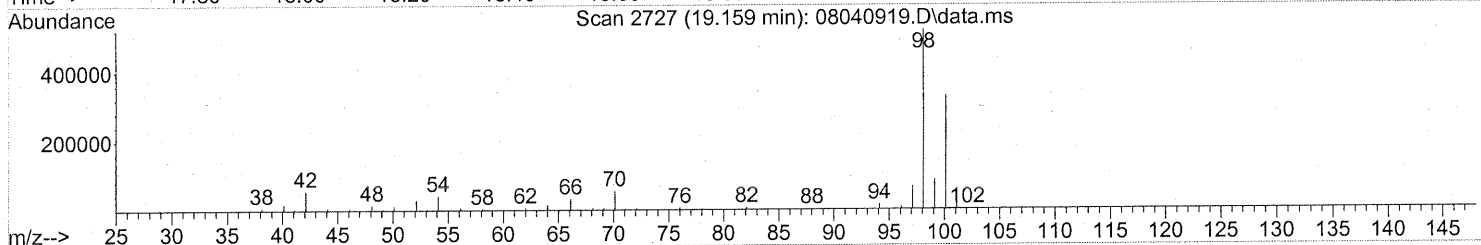
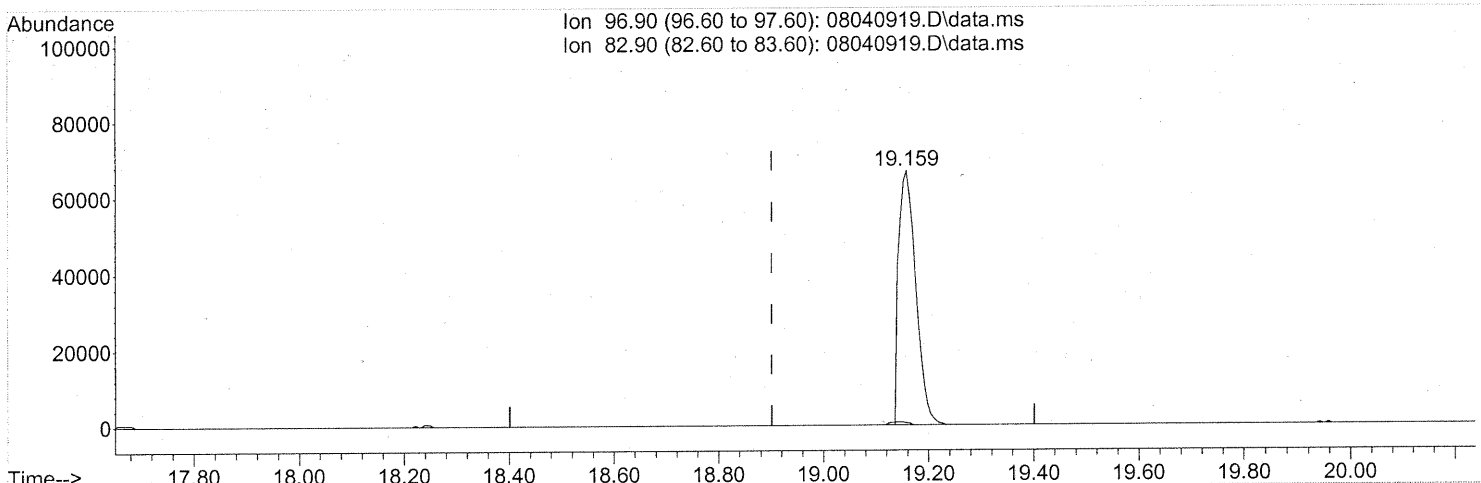
FP Em 8/13/09

8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040919.D
Acq On : 4 Aug 2009 20:24
Operator : EM
Sample : P0902624-006 (1000ml)
Misc : Environmental H & E 99448
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 07:55:29 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

19.159min (+0.257) 8.33ng

response 151123

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.02#
0.00	0.00	0.00
0.00	0.00	0.00

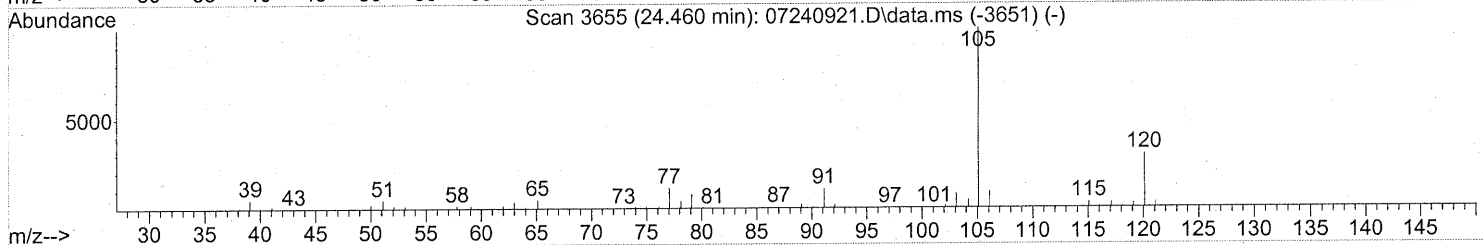
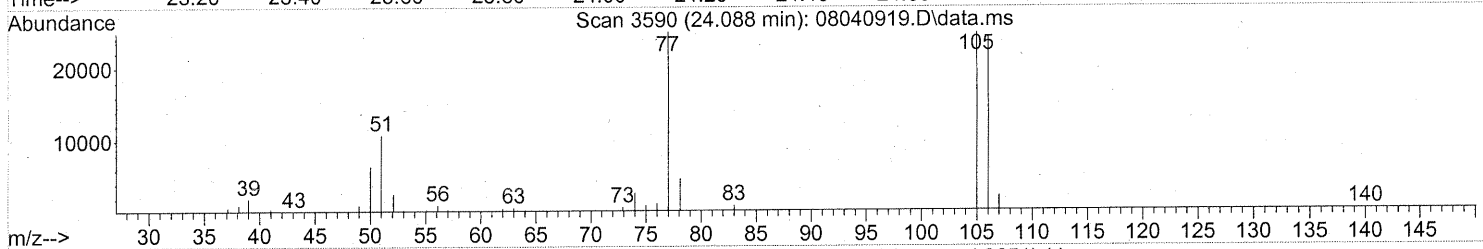
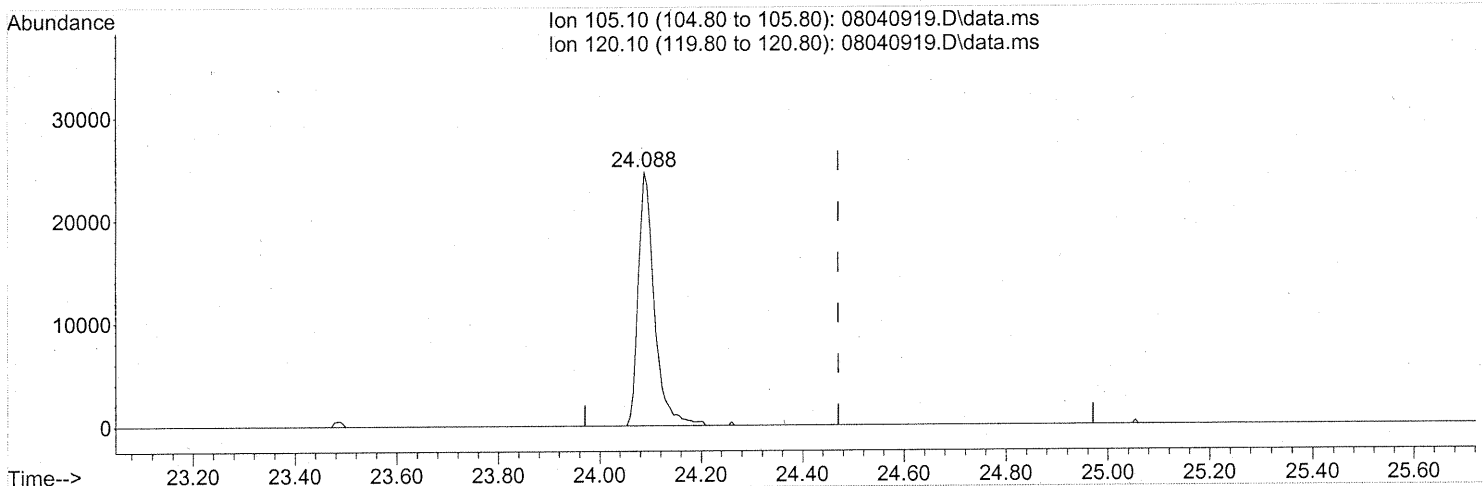
FP
em 8/6/09

um 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040919.D
 Acq On : 4 Aug 2009 20:24
 Operator : EM
 Sample : P0902624-006 (1000ml)
 Misc : Environmental H & E 99448
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 07:55:29 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040919.D\data.ms

(78) 4-Ethyltoluene (T)

24.088min (-0.383) 0.51ng

response 54379

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
um 8/10/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P090804-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/4/09
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
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: 8/14/09

304

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P090804-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/4/09
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: _____

8/14/09

305

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P090804-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/4/09
 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	0.10	ND	0.013	
91-20-3	Naphthalene	ND	0.20	ND	0.038	
87-68-3	Hexachlorobutadiene	ND	0.10	ND	0.0094	

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.

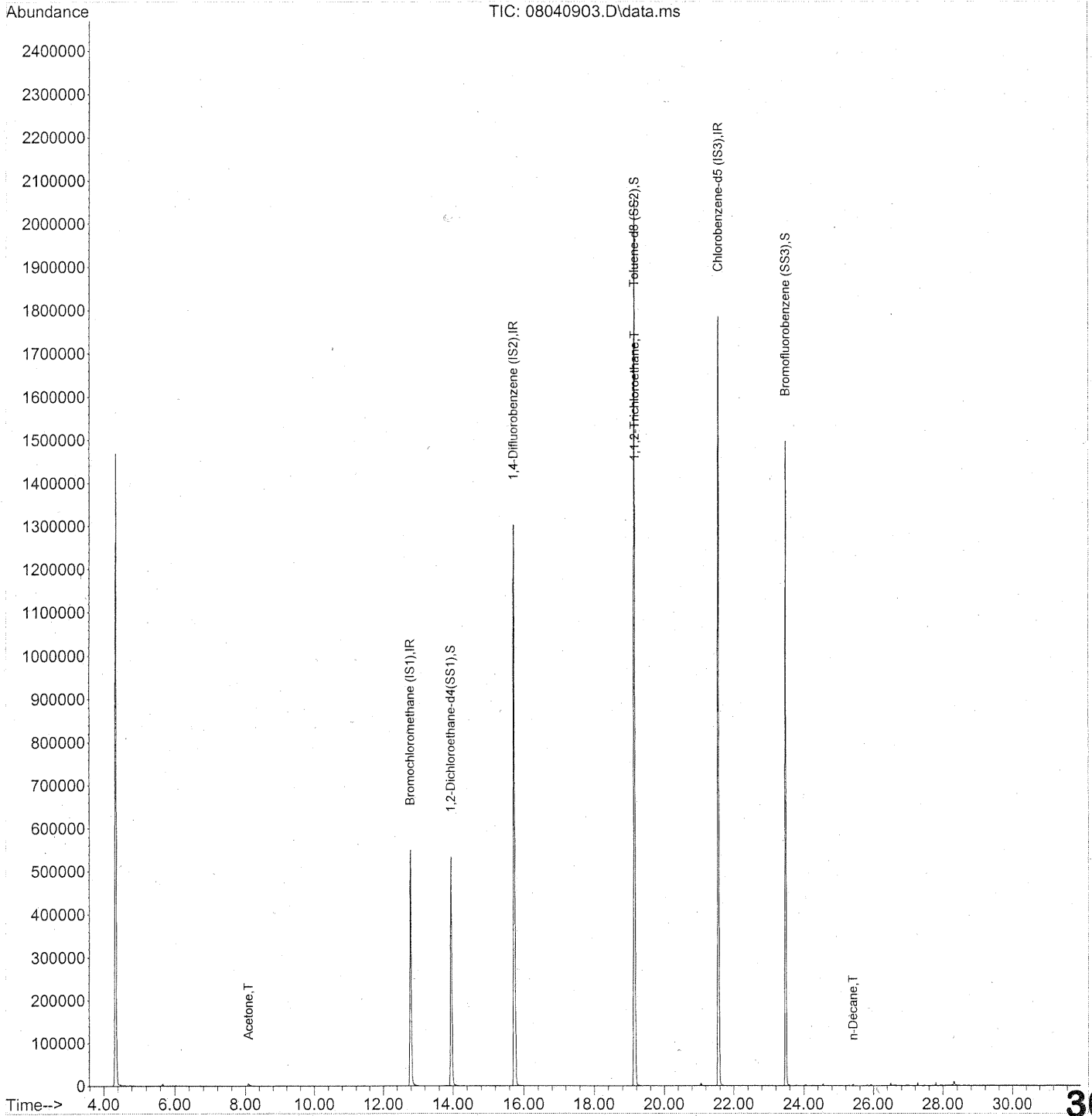
Verified By: _____

Date: 8/14/09

306

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040903.D
 Acq On : 4 Aug 2009 5:17
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-07200901
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 09:20:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040903.D
 Acq On : 4 Aug 2009 5:17
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-07200901
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 09:20:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	300632	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1528590	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	719079	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	534447	25.128	ng	-0.03
Spiked Amount	25.000			Recovery =	100.52%	✓
57) Toluene-d8 (SS2)	19.15	98	1781648	25.044	ng	-0.01
Spiked Amount	25.000			Recovery =	100.16%	✓
73) Bromofluorobenzene (SS3)	23.49	174	533894	24.963	ng	0.00
Spiked Amount	25.000			Recovery =	99.84%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	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	7.28	45	220	N.D.		
11) Acetonitrile	7.60	41	217	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	8.09	58	4333	0.303	ng	86
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	9.52	84	109	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	9.94	76	1433	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.		

Em 8/4/09

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040903.D
 Acq On : 4 Aug 2009 5:17
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-07200901
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 09:20:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 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)	0.00	72	0	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	15.23	78	955	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.74	84	739	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	19.16	97	149893	8.753 ng	#	8
58) Toluene	19.28	91	1188	N.D.		
59) 2-Hexanone	0.00	43	0	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	22.31	91	384	N.D.		
67) m- & p-Xylenes	22.31	91	384	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.92	91	474	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.49	105	746	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.25	91	1056	N.D.		
77) 3-Ethyltoluene	24.40	105	259	N.D.		
78) 4-Ethyltoluene	24.47	105	115	N.D.		
79) 1,3,5-Trimethylbenzene	24.54	105	446	N.D.		

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040903.D
 Acq On : 4 Aug 2009 5:17
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
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 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 09:20:22 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	25.05	105	597	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	597	N.D.		
83) n-Decane	25.41	57	2340	0.053	ng #	38
84) Benzyl Chloride	0.00	91	0	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	25.05	105	597	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	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	26.65	57	107	N.D.		
94) 1,2,4-Trichlorobenzene	27.80	180	103	N.D.		
95) Naphthalene	27.94	128	2179	N.D.		
96) n-Dodecane	27.89	57	351	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	0.00	91	0	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, Incorporated
Client Project ID: 16512

CAS Project ID: P0902624

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 7/30/09
Date(s) Received: 7/31/09
Date(s) Analyzed: 8/4/09

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	P090804-MB	101	70-130	100	70-130	100	70-130	
Lab Control Sample	P090804-LCS	98	70-130	100	70-130	97	70-130	
99441	P0902624-001	99	70-130	97	70-130	98	70-130	
99442	P0902624-002	100	70-130	97	70-130	98	70-130	
99442	P0902624-002DUP	98	70-130	97	70-130	98	70-130	
99443	P0902624-003	102	70-130	99	70-130	98	70-130	
99444	P0902624-004	98	70-130	98	70-130	96	70-130	
99445	P0902624-005	100	70-130	94	70-130	98	70-130	
99448	P0902624-006	100	70-130	100	70-130	100	70-130	

Verified By: _____

Date: _____

2/14/09

312

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P090804-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/04/09
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	27.3	104	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	22.7	87	61-118	
74-87-3	Chloromethane	25.0	21.8	87	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.6	83	65-122	
75-01-4	Vinyl Chloride	25.3	21.0	83	57-132	
106-99-0	1,3-Butadiene	26.8	23.7	88	66-161	
74-83-9	Bromomethane	25.8	22.4	87	67-130	
75-00-3	Chloroethane	25.5	20.3	80	68-123	
64-17-5	Ethanol	130	109	84	50-155	
75-05-8	Acetonitrile	26.0	23.3	90	48-148	
107-02-8	Acrolein	26.3	24.4	93	67-138	
67-64-1	Acetone	132	118	89	59-121	
75-69-4	Trichlorofluoromethane	26.3	22.1	84	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	41.3	86	54-126	
107-13-1	Acrylonitrile	25.8	28.1	109	65-134	
75-35-4	1,1-Dichloroethene	27.5	25.4	92	70-123	
75-09-2	Methylene Chloride	26.8	23.0	86	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	28.7	106	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	25.1	91	69-126	
75-15-0	Carbon Disulfide	26.0	23.8	92	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	24.3	95	69-125	
75-34-3	1,1-Dichloroethane	26.5	24.8	94	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	24.4	93	72-132	
108-05-4	Vinyl Acetate	126	106	84	73-158	
78-93-3	2-Butanone (MEK)	26.8	28.9	108	68-126	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P090804-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/04/09
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	25.6	95	69-124	
141-78-6	Ethyl Acetate	52.0	47.8	92	65-126	
110-54-3	n-Hexane	26.0	23.6	91	63-125	
67-66-3	Chloroform	27.5	24.1	88	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	27.1	102	65-124	
107-06-2	1,2-Dichloroethane	26.3	23.9	91	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	23.8	92	69-127	
71-43-2	Benzene	25.8	22.7	88	68-122	
56-23-5	Carbon Tetrachloride	26.3	24.6	94	68-137	
110-82-7	Cyclohexane	51.8	47.7	92	68-121	
78-87-5	1,2-Dichloropropane	26.0	25.2	97	69-128	
75-27-4	Bromodichloromethane	26.3	25.1	95	71-131	
79-01-6	Trichloroethene	25.8	23.2	90	72-122	
123-91-1	1,4-Dioxane	26.0	26.2	101	73-127	
80-62-6	Methyl Methacrylate	52.8	54.5	103	80-133	
142-82-5	n-Heptane	25.8	24.6	95	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	24.9	102	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	27.7	103	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	29.1	108	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	25.1	97	76-125	
108-88-3	Toluene	26.8	23.9	89	74-119	
591-78-6	2-Hexanone	27.0	27.7	103	64-118	
124-48-1	Dibromochloromethane	28.3	26.6	94	79-129	
106-93-4	1,2-Dibromoethane	26.3	25.1	95	79-125	
123-86-4	n-Butyl Acetate	27.5	26.9	98	70-136	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P090804-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/04/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	25.4	97	75-126	
127-18-4	Tetrachloroethene	25.3	22.6	89	72-125	
108-90-7	Chlorobenzene	26.5	23.8	90	74-121	
100-41-4	Ethylbenzene	26.3	24.5	93	76-120	
179601-23-1	m,p-Xylenes	51.5	47.9	93	75-120	
75-25-2	Bromoform	26.5	24.6	93	76-143	
100-42-5	Styrene	26.3	25.7	98	78-124	
95-47-6	o-Xylene	26.0	24.4	94	76-121	
111-84-2	n-Nonane	25.8	25.7	100	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	26.0	96	77-126	
98-82-8	Cumene	25.3	23.1	91	78-125	
80-56-8	alpha-Pinene	24.8	23.8	96	78-125	
103-65-1	n-Propylbenzene	25.3	24.2	96	80-127	
622-96-8	4-Ethyltoluene	26.3	25.0	95	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	25.2	95	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	25.1	98	76-123	
100-44-7	Benzyl Chloride	26.8	28.0	104	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	24.1	93	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	23.4	89	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	23.2	90	75-124	
5989-27-5	d-Limonene	26.5	26.4	100	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	26.7	99	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	23.4	86	70-139	
91-20-3	Naphthalene	25.0	22.8	91	69-141	
87-68-3	Hexachlorobutadiene	26.8	24.1	90	68-138	

Verified By: _____

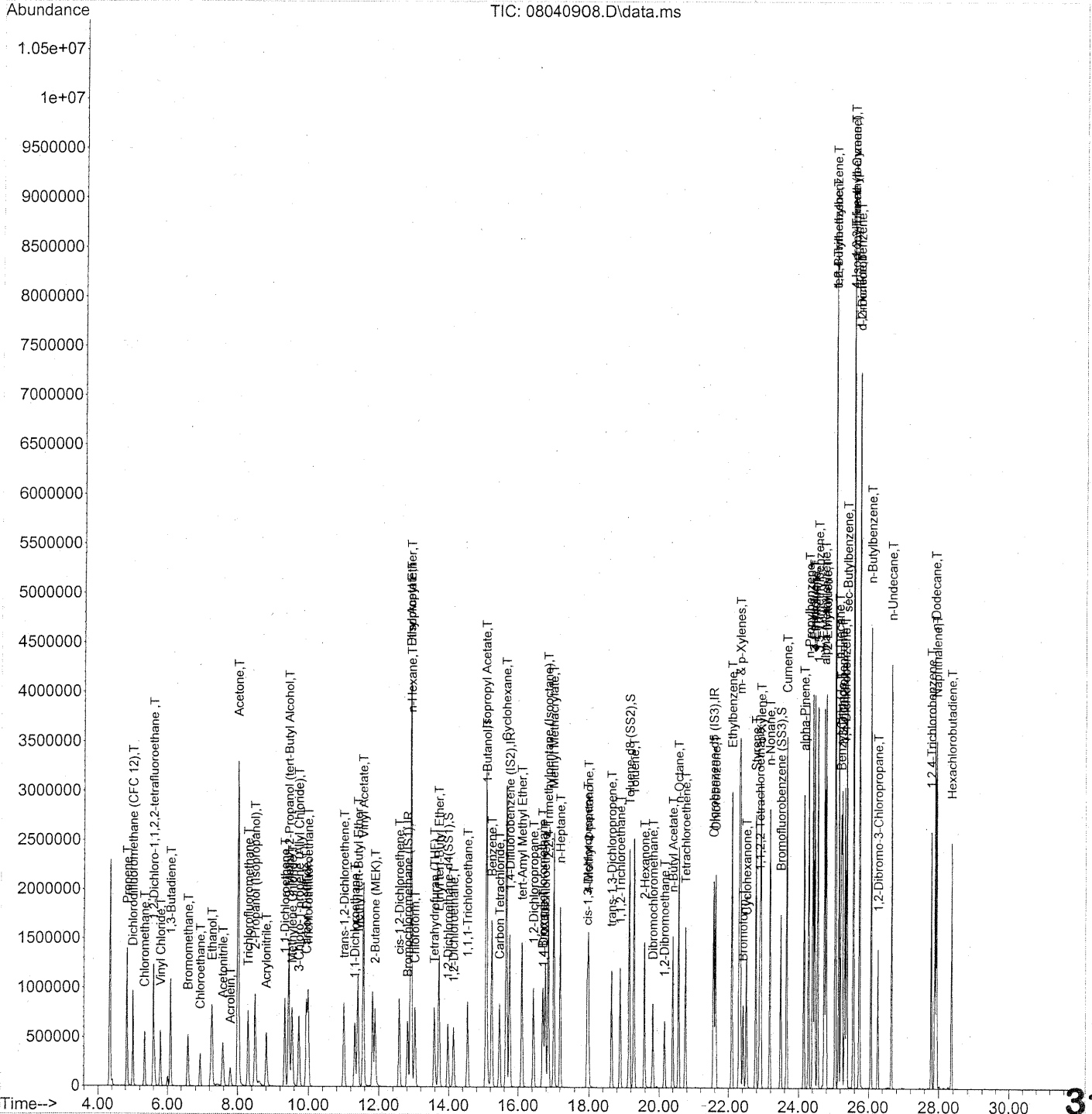
Date: 8/17/09

315

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040908.D
 Acq On : 4 Aug 2009 11:42
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 13:09:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



316

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040908.D
 Acq On : 4 Aug 2009 11:42
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 13:09:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	370320	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.76	114	1841654	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.56	82	858141	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	638885	24.385	ng	-0.02	
Spiked Amount				25.000			
				Recovery	=	97.56%	✓
57) Toluene-d8 (SS2)	19.15	98	2112109	24.878	ng	0.00	
Spiked Amount				25.000			
				Recovery	=	99.52%	✓
73) Bromofluorobenzene (SS3)	23.49	174	617470	24.192	ng	0.00	✓
Spiked Amount				25.000			
				Recovery	=	96.76%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	637262	27.277	ng	99
3) Dichlorodifluoromethan...	5.00	85	1059440	22.723	ng	99
4) Chloromethane	5.33	50	762467	21.838	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	566942	21.590	ng	100
6) Vinyl Chloride	5.80	62	782257	21.016	ng	99
7) 1,3-Butadiene	6.09	54	634837	23.722	ng	99
8) Bromomethane	6.59	94	492506	22.432	ng	100
9) Chloroethane	6.93	64	378907	20.347	ng	100
10) Ethanol	7.27	45	1689127m	108.966	ng	
11) Acetonitrile	7.58	41	817905	23.335	ng	100
12) Acrolein	7.79	56	276224	24.443	ng	98
13) Acetone	8.01	58	2077766	117.843	ng	95
14) Trichlorofluoromethane	8.29	101	896683	22.079	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	1916667m	41.313	ng	
16) Acrylonitrile	8.81	53	664211	28.081	ng	100
17) 1,1-Dichloroethene	9.33	96	526178	25.442	ng	98
18) 2-Methyl-2-Propanol (t...	9.45	59	2632761	50.388	ng	99
19) Methylene Chloride	9.54	84	536503	22.980	ng	99
20) 3-Chloro-1-propene (Al...	9.73	41	724253	28.747	ng	98
21) Trichlorotrifluoroethane	9.99	151	462565	25.108	ng	99
22) Carbon Disulfide	9.94	76	1894854	23.829	ng	98
23) trans-1,2-Dichloroethene	11.01	61	735608	24.253	ng	97
24) 1,1-Dichloroethane	11.32	63	916642	24.792	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1592215	24.418	ng	99
26) Vinyl Acetate	11.56	86	445786	106.004	ng	97
27) 2-Butanone (MEK)	11.89	72	388666	28.900	ng	99
28) cis-1,2-Dichloroethene	12.58	61	748227	25.563	ng	98
29) Diisopropyl Ether	12.91	87	497769	23.814	ng	96
30) Ethyl Acetate	12.91	61	420647	47.752	ng	99
31) n-Hexane	12.93	57	959451	23.555	ng	99

317

EM 8/4/09

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040908.D
 Acq On : 4 Aug 2009 11:42
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 13:09:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.03	83	893178	24.147	ng	100
34) Tetrahydrofuran (THF)	13.58	72	342884	27.057	ng	99
35) Ethyl tert-Butyl Ether	13.71	87	672326	23.995	ng	96
36) 1,2-Dichloroethane	14.14	62	708414	23.890	ng	99
38) 1,1,1-Trichloroethane	14.54	97	804917	23.829	ng	100
39) Isopropyl Acetate	15.07	61	739888	55.170	ng #	88
40) 1-Butanol	15.09	56	1155965	50.515	ng	83
41) Benzene	15.23	78	2225541	22.661	ng	99
42) Carbon Tetrachloride	15.46	117	708872	24.573	ng	99
43) Cyclohexane	15.66	84	1752444	47.718	ng	97
44) tert-Amyl Methyl Ether	16.11	73	1605186	24.729	ng	100
45) 1,2-Dichloropropane	16.44	63	521230	25.176	ng	98
46) Bromodichloromethane	16.70	83	711462	25.063	ng	99
47) Trichloroethene	16.77	130	583131	23.233	ng	100
48) 1,4-Dioxane	16.72	88	433124	26.201	ng	96
49) 2,2,4-Trimethylpentane...	16.86	57	2235283	23.487	ng	98
50) Methyl Methacrylate	17.02	100	501900	54.494	ng	98
51) n-Heptane	17.21	71	584148	24.565	ng	100
52) cis-1,3-Dichloropropene	17.95	75	858291	24.920	ng	100
53) 4-Methyl-2-pentanone	17.99	58	515715	27.738	ng	99
54) trans-1,3-Dichloropropene	18.64	75	882130	29.098	ng	100
55) 1,1,2-Trichloroethane	18.89	97	517799	25.095	ng	99
58) Toluene	19.28	91	2488733	23.947	ng	100
59) 2-Hexanone	19.58	43	1237913	27.696	ng	100
60) Dibromochloromethane	19.82	129	621933	26.614	ng	100
61) 1,2-Dibromoethane	20.15	107	604830	25.126	ng	99
62) n-Butyl Acetate	20.39	43	1334631	26.859	ng	99
63) n-Octane	20.56	57	516456	25.432	ng	99
64) Tetrachloroethene	20.76	166	621651	22.623	ng	99
65) Chlorobenzene	21.62	112	1558843	23.844	ng	100
66) Ethylbenzene	22.09	91	2767006	24.484	ng	100
67) m- & p-Xylenes	22.33	91	4465504	47.917	ng	100
68) Bromoform	22.41	173	513013	24.635	ng	100
69) Styrene	22.77	104	1765190	25.686	ng	99
70) o-Xylene	22.92	91	2265326	24.401	ng	99
71) n-Nonane	23.17	43	1166634	25.739	ng	98
72) 1,1,2,2-Tetrachloroethane	22.89	83	1004367	26.012	ng	99
74) Cumene	23.66	105	2852504	23.137	ng	100
75) alpha-Pinene	24.15	93	1404154	23.831	ng	100
76) n-Propylbenzene	24.28	91	3597883	24.227	ng	100
77) 3-Ethyltoluene	24.41	105	2892835	24.760	ng	99
78) 4-Ethyltoluene	24.46	105	2928639	24.978	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	2452542	25.152	ng	100

318

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040908.D
 Acq On : 4 Aug 2009 11:42
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 13:09:25 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

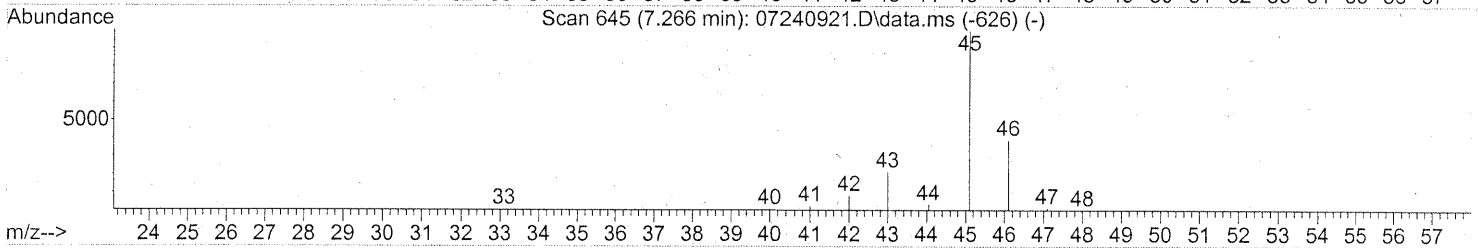
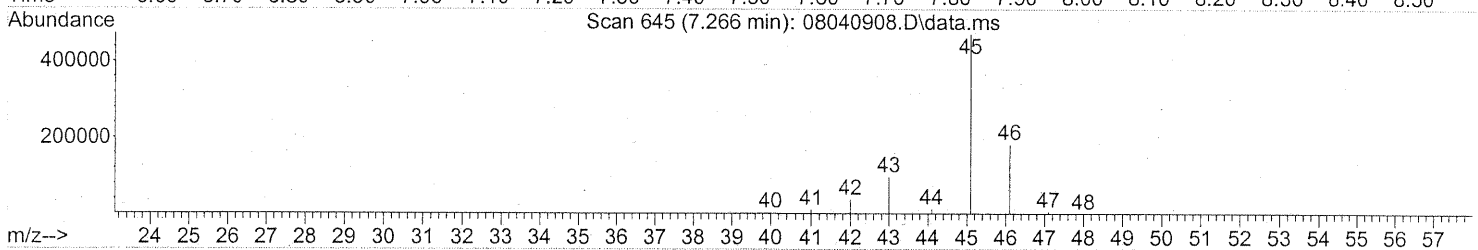
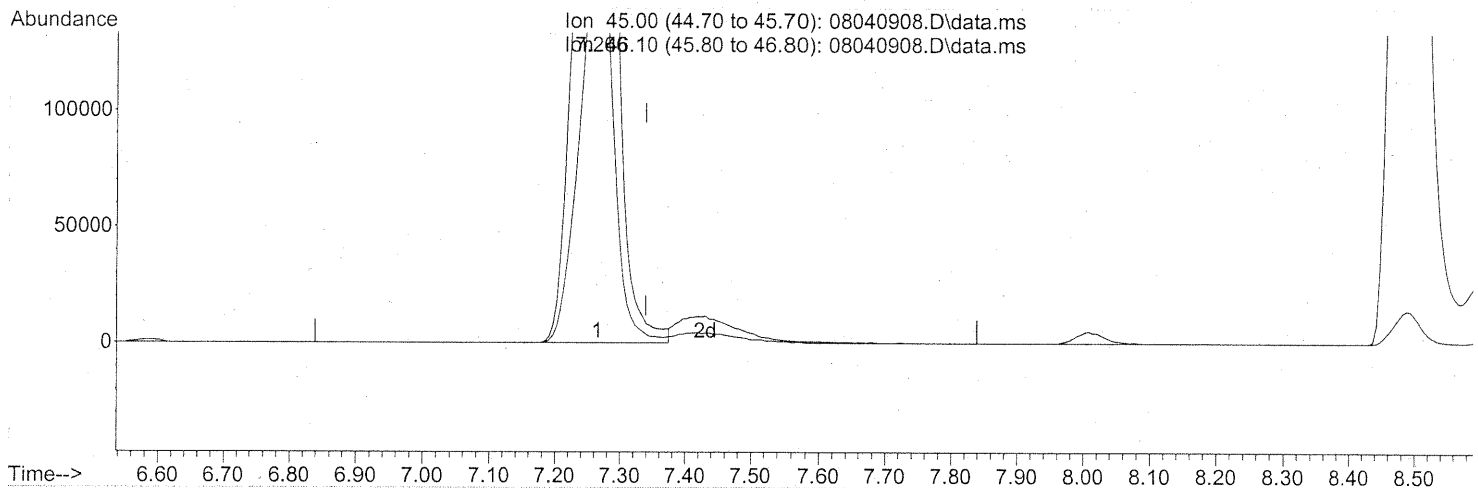
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1372230	25.158	ng	99
81) 2-Ethyltoluene	24.79	105	2973815	24.297	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	2740871	25.132	ng	99
83) n-Decane	25.15	57	1403283	26.635	ng	98
84) Benzyl Chloride	25.22	91	2190887	28.027	ng	100
85) 1,3-Dichlorobenzene	25.25	146	1379636	24.100	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1393718	23.368	ng	99
87) sec-Butylbenzene	25.38	105	3380937	24.797	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	3341388	24.308	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2768213	24.927	ng	98
90) 1,2-Dichlorobenzene	25.75	146	1382458	23.234	ng	100
91) d-Limonene	25.74	68	1141804	26.352	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.27	157	445586	26.666	ng	97
93) n-Undecane	26.65	57	1437027	26.639	ng	100
94) 1,2,4-Trichlorobenzene	27.79	180	897945	23.388	ng	99
95) Naphthalene	27.94	128	3047275	22.770	ng	100
96) n-Dodecane	27.89	57	1357365	23.547	ng	100
97) Hexachlorobutadiene	28.36	225	530307	24.143	ng	100
98) Cyclohexanone	22.51	55	704540	22.475	ng	98
99) tert-Butylbenzene	25.05	119	2674659	24.266	ng	100
100) n-Butylbenzene	26.07	91	2787828	25.676	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040908.D
 Acq On : 4 Aug 2009 11:42
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 13:08:39 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040908.D\data.ms

(10) Ethanol (T)
 7.266min (-0.074) 104.19ng
 response 1615157

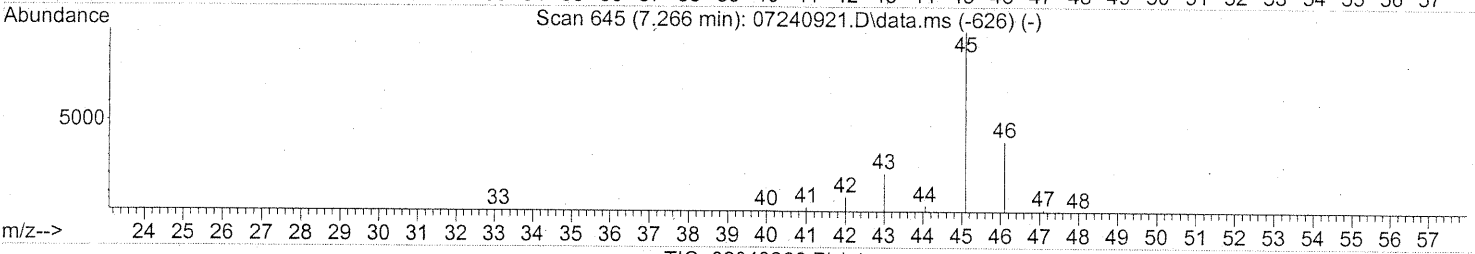
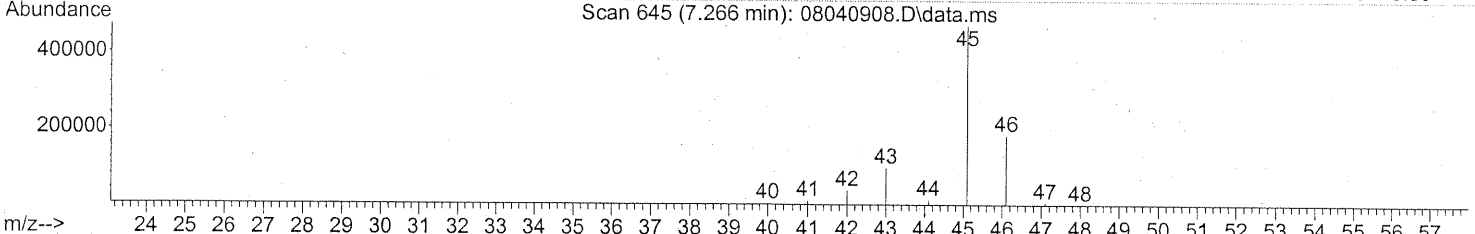
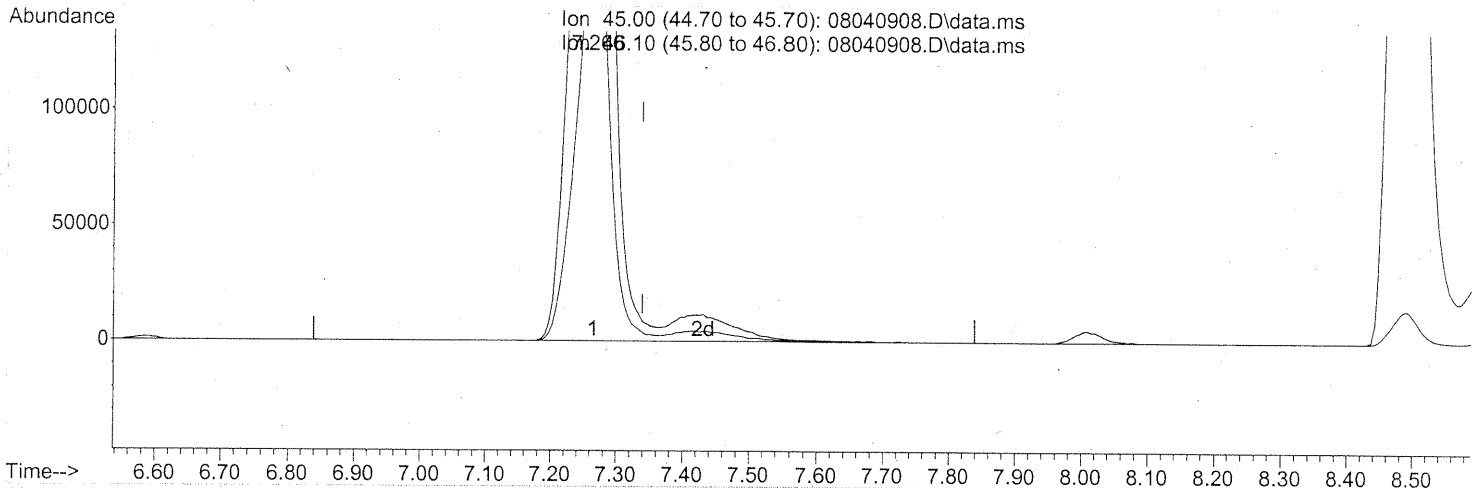
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.88
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040908.D
 Acq On : 4 Aug 2009 11:42
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 13:08:39 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.266min (-0.074) 108.97ng m

response 1689127

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.18
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC

Em 8/4/09

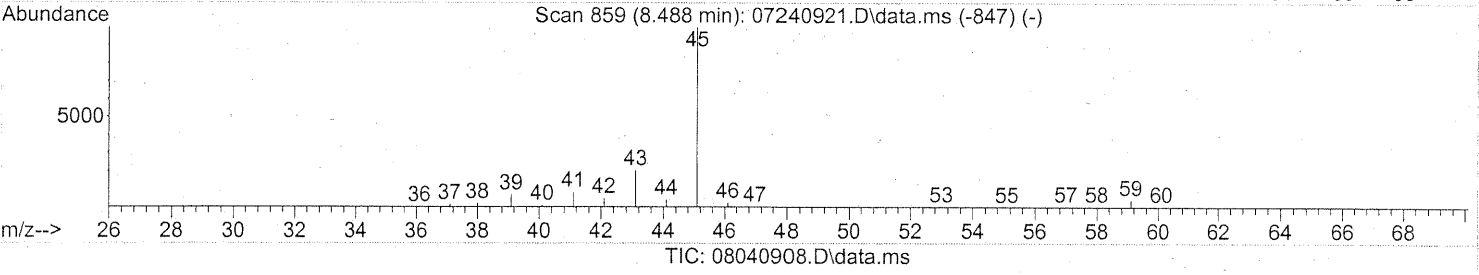
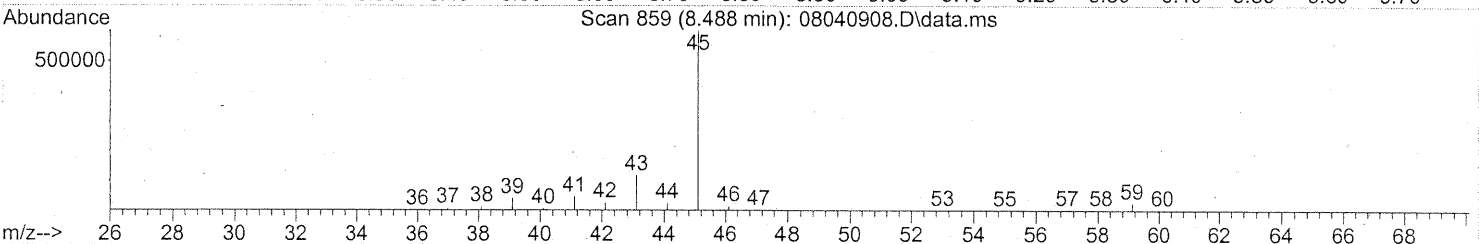
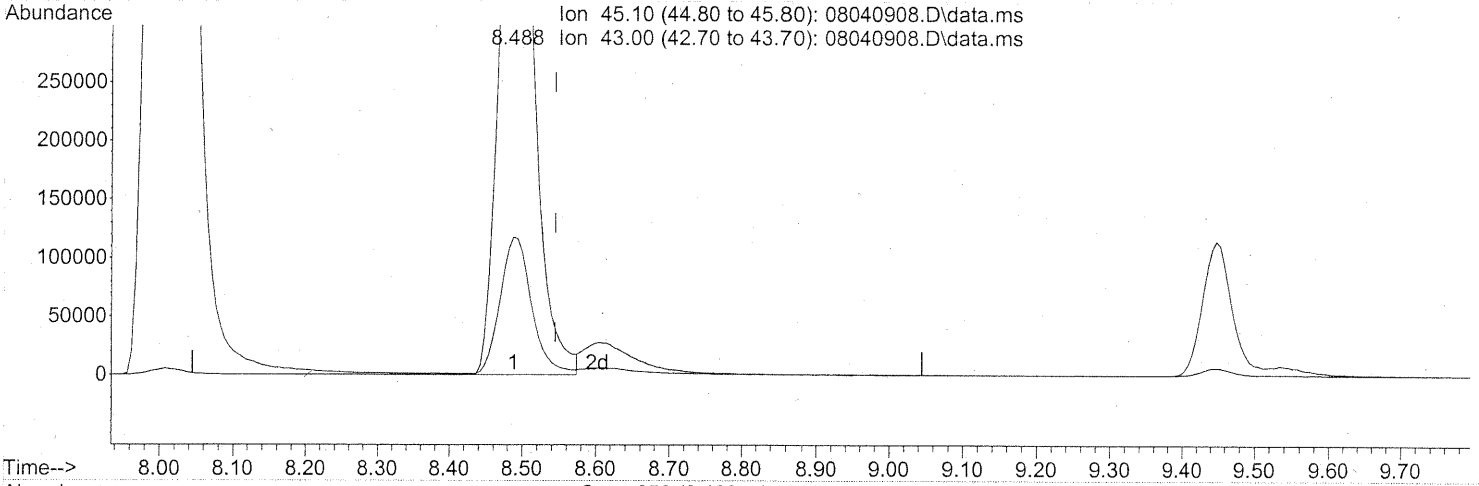
8/4/09

321

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040908.D
 Acq On : 4 Aug 2009 11:42
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 13:08:39 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.488min (-0.057) 38.35ng

response 1779169

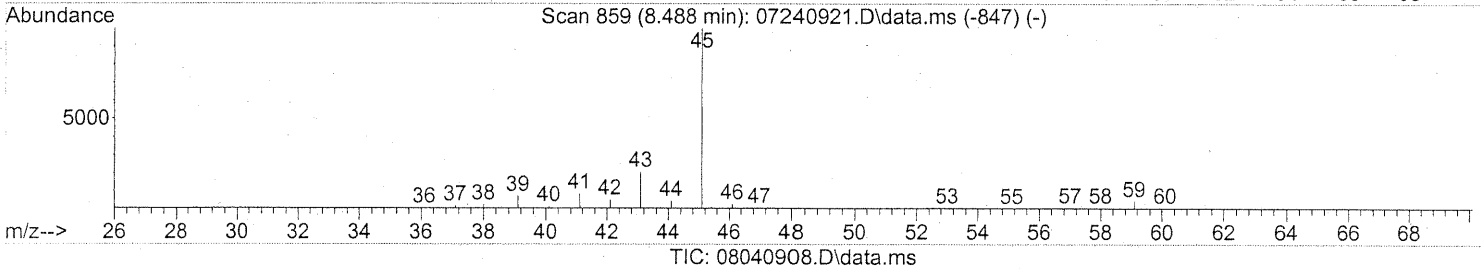
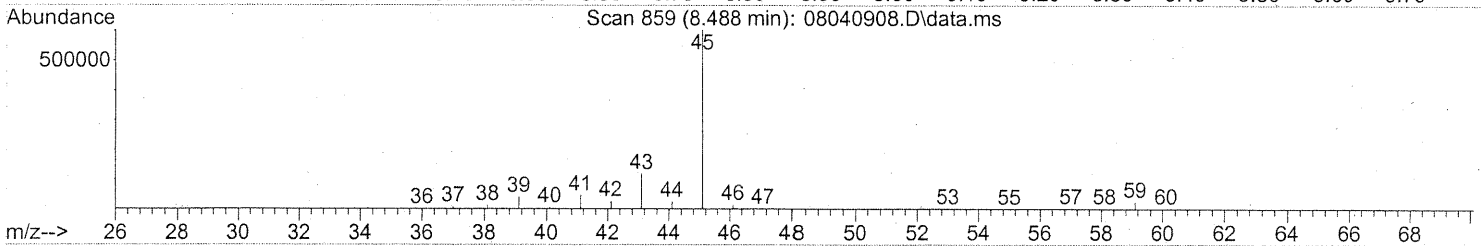
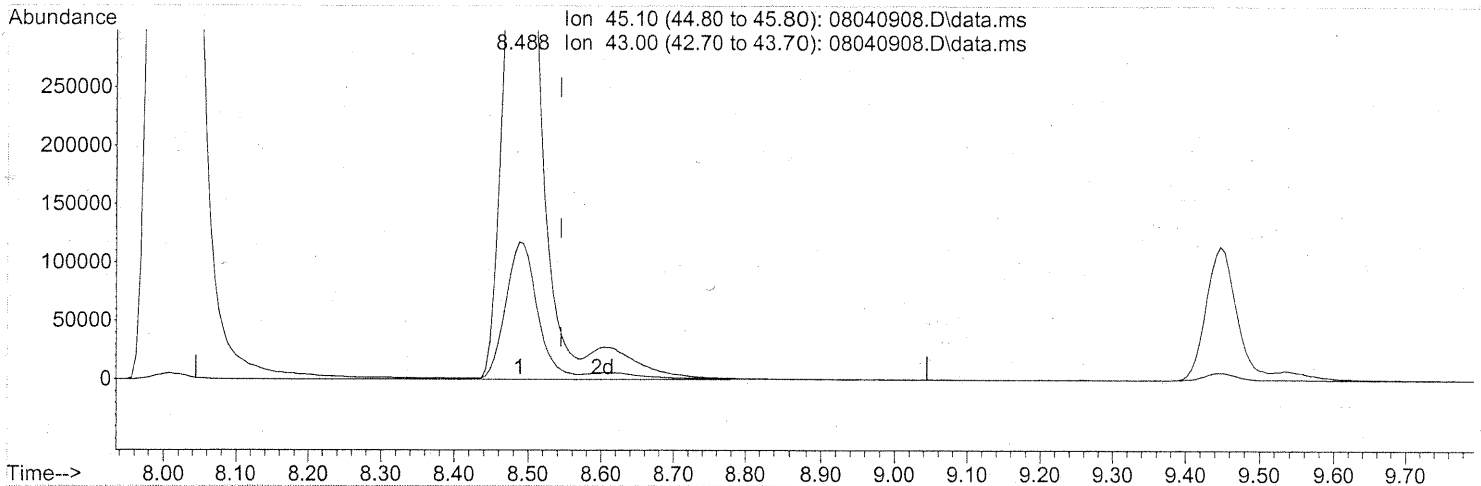
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040908.D
Acq On : 4 Aug 2009 11:42
Operator : EM
Sample : 25ng TO-15 LCS STD
Misc : S20-07200901/S20-07240915
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 13:08:39 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.488min (-0.057) 41.31ng m

response 1916667

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.91
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

em 8/4/09

8/4/09

323

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99442

Client Project ID: 16512

CAS Project ID: P0902624

CAS Sample ID: P0902624-002DUP

Test Code: EPA TO-15

Date Collected: 7/30/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 7/31/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/4/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: AC01287

Initial Pressure (psig): 0.0

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	2.57	1.49	3.10	1.80	2.835	19	25	
Dichlorodifluoromethane (CFC 12)	3.88	0.786	4.03	0.816	3.955	4	25	
Chloromethane	0.737	0.357	0.653	0.317	0.695	12	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	0.191	0.0747	0.197	0.0772	0.194	3	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	0.604	0.156	0.579	0.149	0.5915	4	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	127	67.2	120	63.7	123.5	6	25	
Acetonitrile	173	103	176	105	174.5	2	25	D
Acrolein	7.76	3.38	7.84	3.42	7.8	1	25	
Acetone	192	80.7	186	78.2	189	3	25	
Trichlorofluoromethane	2.05	0.366	2.01	0.358	2.03	2	25	
2-Propanol (Isopropyl Alcohol)	9.23	3.76	9.16	3.73	9.195	0.8	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	ND	ND	ND	ND	-	-	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.507	0.0662	0.522	0.0681	0.5145	3	25	
Carbon Disulfide	2.22	0.714	2.24	0.720	2.23	0.9	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	11.3	3.22	11.4	3.23	11.35	0.9	25	
2-Butanone (MEK)	11.6	3.94	11.2	3.80	11.4	4	25	

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

D = The reported result is from a dilution.

Verified By: _____

Date: _____

324

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99442
Client Project ID: 16512

CAS Project ID: P0902624
CAS Sample ID: P0902624-002DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01287

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): 0.0 **Final Pressure (psig):** 3.5

Canister Dilution Factor: 1.24

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	4.88	1.35	5.00	1.39	4.94	2	25	
n-Hexane	0.770	0.219	0.787	0.224	0.7785	2	25	
Chloroform	1.03	0.211	1.03	0.210	1.03	0	25	
Tetrahydrofuran (THF)	1.37	0.466	1.33	0.451	1.35	3	25	
1,2-Dichloroethane	0.382	0.0944	0.373	0.0923	0.3775	2	25	
1,1,1-Trichloroethane	0.883	0.162	0.859	0.158	0.871	3	25	
Benzene	1.55	0.485	1.52	0.476	1.535	2	25	
Carbon Tetrachloride	0.610	0.0970	0.610	0.0970	0.61	0	25	
Cyclohexane	1.29	0.374	1.29	0.374	1.29	0	25	
1,2-Dichloropropane	0.148	0.0319	0.140	0.0303	0.144	6	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	3.66	0.681	3.58	0.667	3.62	2	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	1.02	0.249	1.01	0.246	1.015	1	25	
n-Heptane	3.01	0.734	3.01	0.735	3.01	0	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	1.56	0.381	1.60	0.391	1.58	3	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	44.3	11.8	43.5	11.5	43.9	2	25	
2-Hexanone	1.47	0.360	1.45	0.355	1.46	1	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	4.66	0.981	4.60	0.969	4.63	1	25	

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

Verified By: _____

Date: _____

8/14/09 **325**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99442
Client Project ID: 16512

CAS Project ID: P0902624
 CAS Sample ID: P0902624-002DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01287

Date Collected: 7/30/09
Date Received: 7/31/09
Date Analyzed: 8/4/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
n-Octane	2.72	0.582	2.68	0.574	2.7	1	25	
Tetrachloroethene	2.67	0.395	2.65	0.391	2.66	0.8	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	6.26	1.44	6.13	1.41	6.195	2	25	
m,p-Xylenes	16.8	3.87	16.5	3.79	16.65	2	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	4.66	1.09	4.55	1.07	4.605	2	25	
o-Xylene	6.05	1.39	5.86	1.35	5.955	3	25	
n-Nonane	3.28	0.626	3.20	0.611	3.24	2	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	110	19.7	109	19.6	109.5	0.9	25	D
n-Propylbenzene	0.996	0.203	0.960	0.195	0.978	4	25	
4-Ethyltoluene	1.63	0.333	1.58	0.321	1.605	3	25	
1,3,5-Trimethylbenzene	1.50	0.306	1.47	0.300	1.485	2	25	
1,2,4-Trimethylbenzene	5.96	1.21	5.81	1.18	5.885	3	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	0.577	0.0959	0.546	0.0908	0.5615	6	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	18.0	3.23	17.6	3.17	17.8	2	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	3.82	0.729	3.65	0.697	3.735	5	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

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

D = The reported result is from a dilution.

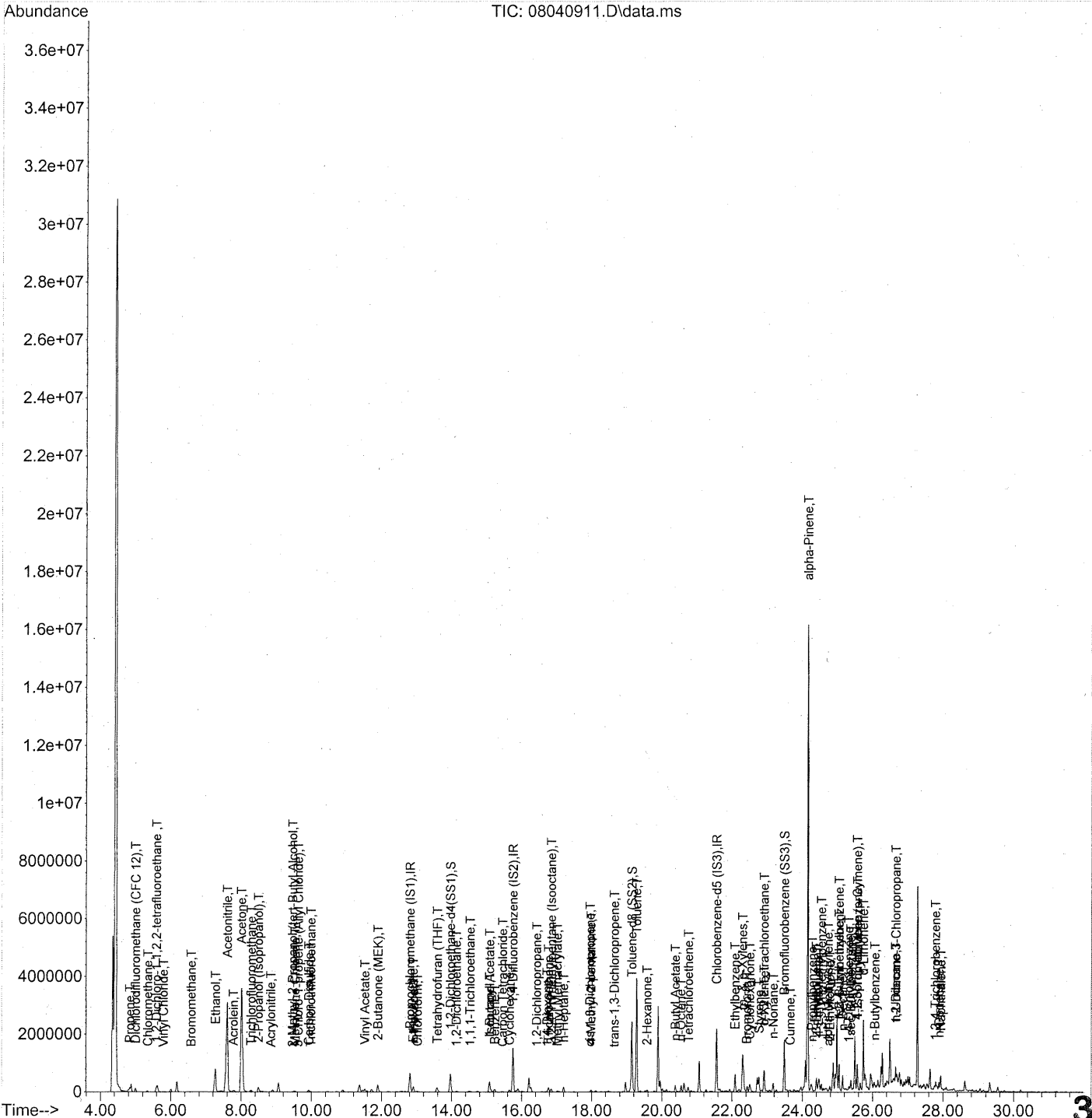
Verified By: _____

Date: 8/14/09

326

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



327

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442 ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	359551	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1790869	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	877106	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	620397	24.389	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	97.56%	
57) Toluene-d8 (SS2)	19.15	98	2101584	24.219	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	96.88%	
73) Bromofluorobenzene (SS3)	23.49	174	636508	24.399	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	97.60%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	56696m	2.500	ng	
3) Dichlorodifluoromethan...	5.00	85	147195	3.252	ng	97
4) Chloromethane	5.35	50	17877	0.527	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1696	0.067	ng	# 54
6) Vinyl Chloride	5.79	62	5734	0.159	ng	93
7) 1,3-Butadiene	6.08	54	705	N.D.		
8) Bromomethane	6.58	94	9956	0.467	ng	98
9) Chloroethane	6.93	64	218	N.D.		
10) Ethanol	7.27	45	1456563m	96.778	ng	
11) Acetonitrile	7.61	41	5701625	167.538	ng	See Dil. 100
12) Acrolein	7.79	56	69409	6.326	ng	98
13) Acetone	8.01	58	2563086	149.723	ng	93
14) Trichlorofluoromethane	8.29	101	64042	1.624	ng	96
15) 2-Propanol (Isopropanol)	8.49	45	332831m	7.389	ng	
16) Acrylonitrile	8.85	53	4757	0.207	ng	# 74
17) 1,1-Dichloroethene	9.32	96	344	N.D.		
18) 2-Methyl-2-Propanol (t...	9.46	59	22808	0.450	ng	# 79
19) Methylene Chloride	9.53	84	4897	0.216	ng	91
20) 3-Chloro-1-propene (Al...	9.62	41	1733	0.071	ng	# 34
21) Trichlorotrifluoroethane	9.99	151	7531	0.421	ng	92
22) Carbon Disulfide	9.93	76	139566	1.808	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.37	63	1576	N.D.		
25) Methyl tert-Butyl Ether	11.42	73	457	N.D.		
26) Vinyl Acetate	11.53	86	37480	9.179	ng	# 31
27) 2-Butanone (MEK)	11.90	72	118033	9.039	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.91	87	476	N.D.		
30) Ethyl Acetate	12.90	61	34476	4.031	ng	95
31) n-Hexane	12.93	57	25106	0.635	ng	9328

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	29706	0.827 ng		100
34) Tetrahydrofuran (THF)	13.59	72	13205	1.073 ng	#	1
35) Ethyl tert-Butyl Ether	13.72	87	271	N.D.		
36) 1,2-Dichloroethane	14.14	62	8654	0.301 ng		95
38) 1,1,1-Trichloroethane	14.53	97	22773	0.693 ng		99
39) Isopropyl Acetate	15.09	61	2389	0.183 ng	#	1
40) 1-Butanol	15.09	56	338159	15.196 ng	#	78
41) Benzene	15.23	78	117218	1.227 ng		100
42) Carbon Tetrachloride	15.46	117	13804	0.492 ng		99
43) Cyclohexane	15.65	84	37035	1.037 ng		96
44) tert-Amyl Methyl Ether	16.13	73	110	N.D.		
45) 1,2-Dichloropropane	16.43	63	2273	0.113 ng		99
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.77	130	70494	2.888 ng		100
48) 1,4-Dioxane	16.73	88	1651	0.103 ng		89
49) 2,2,4-Trimethylpentane...	16.85	57	122394	1.323 ng		100
50) Methyl Methacrylate	17.02	100	7272	0.812 ng		99
51) n-Heptane	17.21	71	56125	2.427 ng		99
52) cis-1,3-Dichloropropene	17.96	75	2776	0.083 ng		95
53) 4-Methyl-2-pentanone	17.99	58	23371	1.293 ng		96
54) trans-1,3-Dichloropropene	18.65	75	2016	0.068 ng	#	54
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	19.28	91	3722355	35.043 ng		100
59) 2-Hexanone	19.58	43	53489	1.171 ng		85
60) Dibromochloromethane	19.82	129	493	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	188504	3.712 ng		97
63) n-Octane	20.55	57	44854	2.161 ng		96
64) Tetrachloroethene	20.76	166	59961	2.135 ng		99
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	22.09	91	570768	4.941 ng		100
67) m- & p-Xylenes	22.30	91	1264189	13.272 ng		100
68) Bromoform	22.42	173	1284	0.060 ng		86
69) Styrene	22.77	104	257901	3.672 ng		99
70) o-Xylene	22.92	91	448246	4.724 ng		99
71) n-Nonane	23.17	43	119716	2.584 ng		96
72) 1,1,2,2-Tetrachloroethane	22.91	83	2283	0.058 ng	#	18
74) Cumene	23.66	105	29355	0.233 ng		99
75) alpha-Pinene	24.15	93	7438710	123.518 ng	See Dil	100
76) n-Propylbenzene	24.28	91	117519	0.774 ng	#	89
77) 3-Ethyltoluene	24.40	105	288028	2.412 ng		99
78) 4-Ethyltoluene	24.46	105	152267	1.271 ng		98
79) 1,3,5-Trimethylbenzene	24.55	105	118320	1.187 ng		9

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

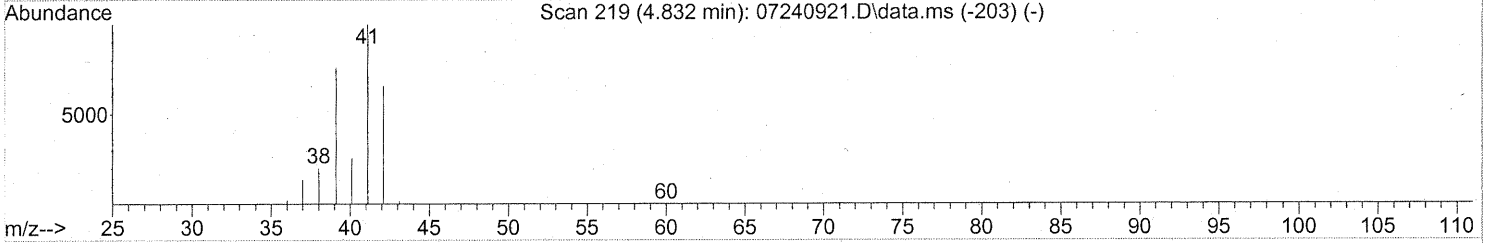
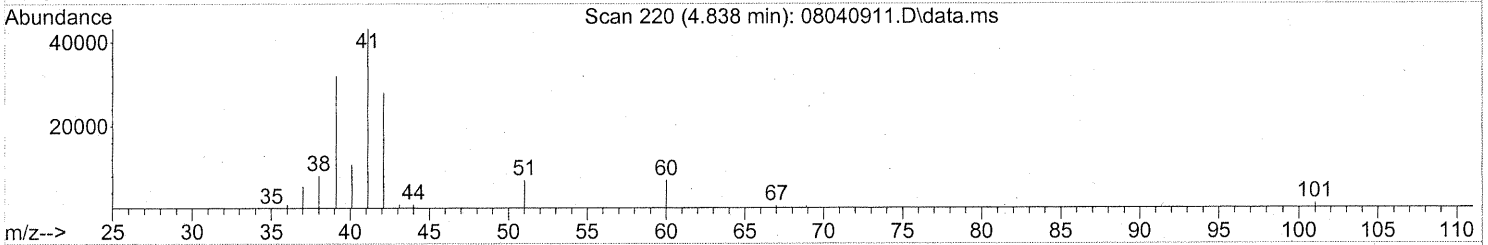
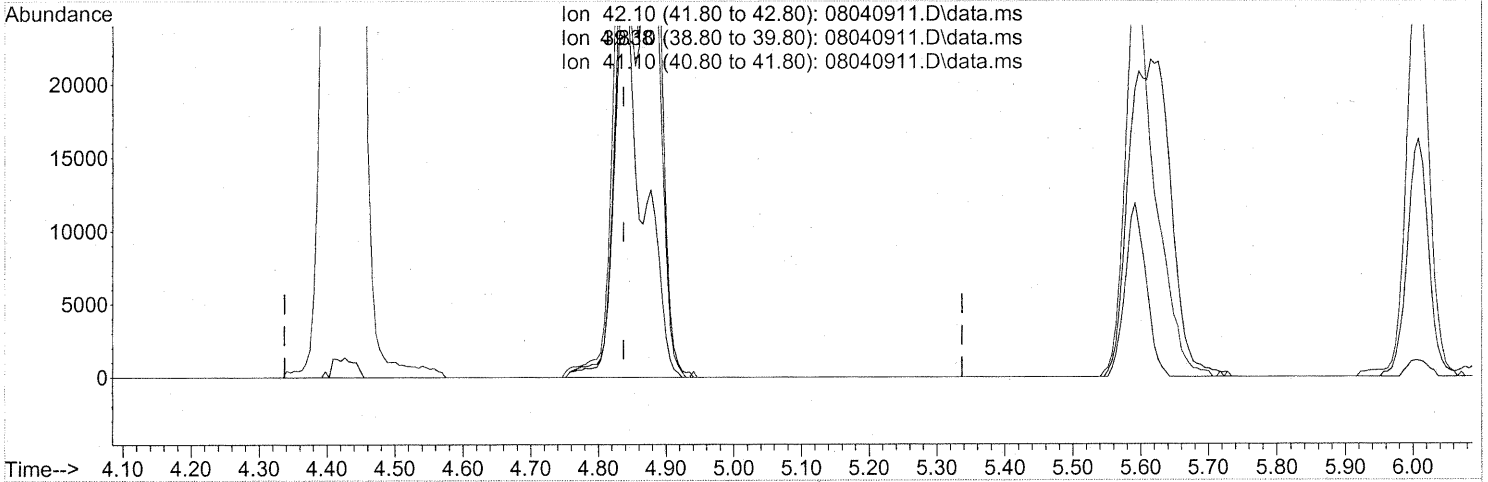
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	4215	0.076	ng #	11
81) 2-Ethyltoluene	24.79	105	125866	1.006	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	522230	4.685	ng	90
83) n-Decane	25.15	57	204587	3.799	ng	97
84) Benzyl Chloride	25.21	91	3466	N.D.		
85) 1,3-Dichlorobenzene	25.24	146	338	N.D.		
86) 1,4-Dichlorobenzene	25.32	146	26809	0.440	ng	99
87) sec-Butylbenzene	25.38	105	14352	0.103	ng	91
88) 4-Isopropyltoluene (p-...	25.56	119	370548	2.637	ng	97
89) 1,2,3-Trimethylbenzene	25.57	105	157343	1.386	ng	84
90) 1,2-Dichlorobenzene	25.74	146	1253	N.D.		
91) d-Limonene	25.74	68	629675	14.218	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.66	157	1037	0.061	ng #	1
93) n-Undecane	26.65	57	368420	6.682	ng	78
94) 1,2,4-Trichlorobenzene	27.79	180	2401	0.061	ng #	88
95) Naphthalene	27.94	128	402706	2.944	ng	100
96) n-Dodecane	27.89	57	90684	1.539	ng	94
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	137840	4.302	ng	96
99) tert-Butylbenzene	25.05	119	64048	0.569	ng #	54
100) n-Butylbenzene	26.06	91	58534	0.527	ng #	62

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:08 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(2) Propene (T)

4.838min (+0.000) 3.47ng

response 78813

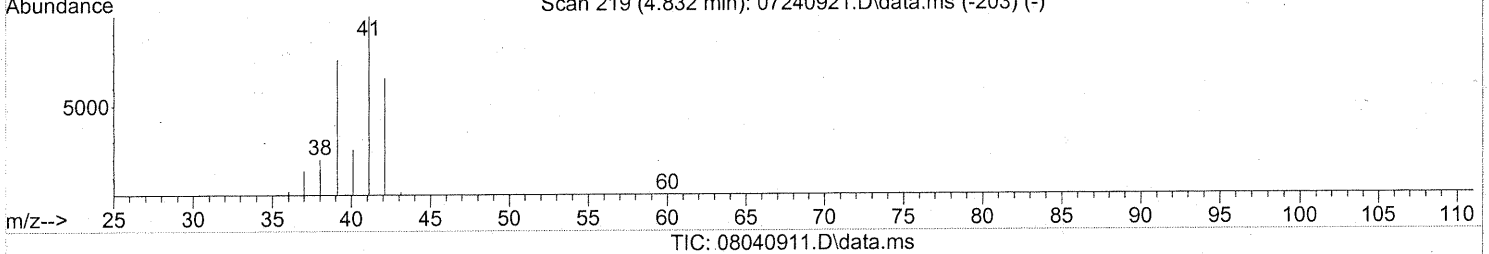
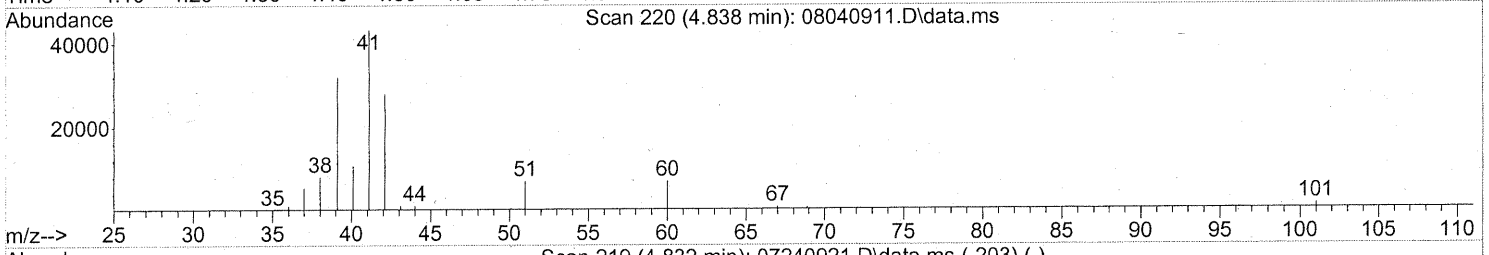
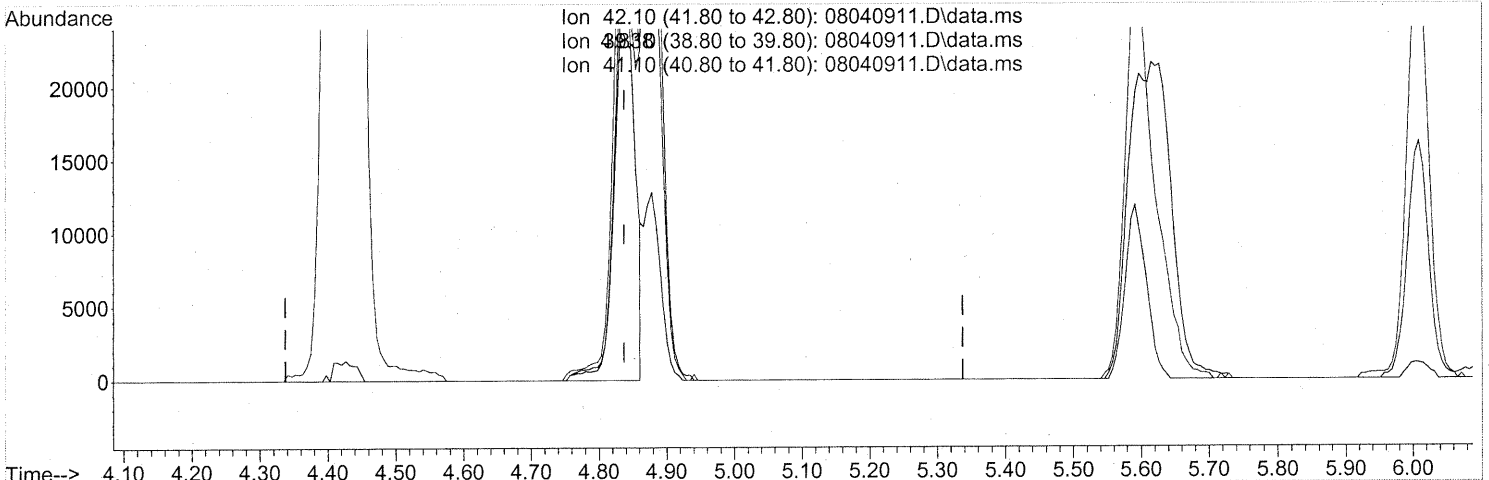
SH

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	78.77#
41.10	152.70	115.80#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:08 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.838min (+0.000) 2.50ng m
 response 56696

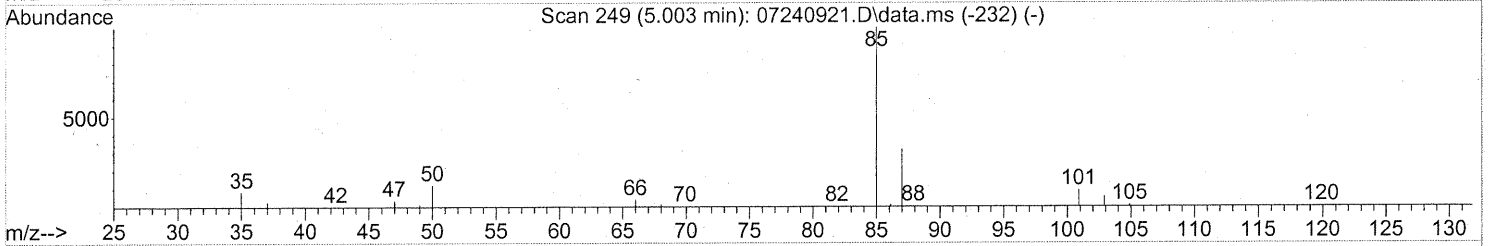
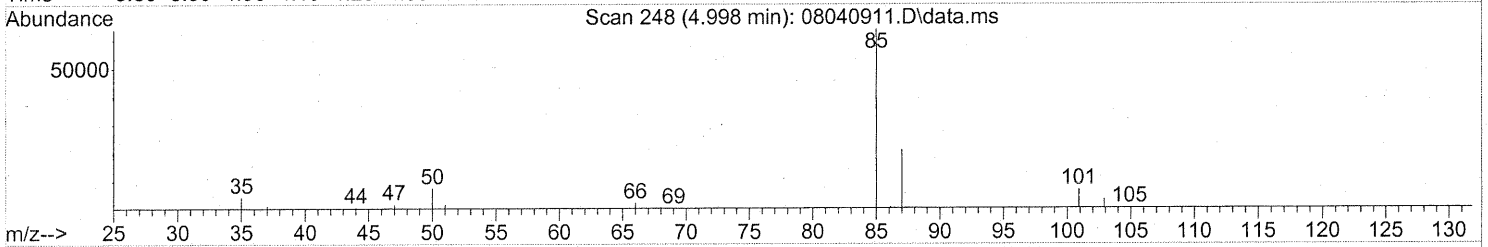
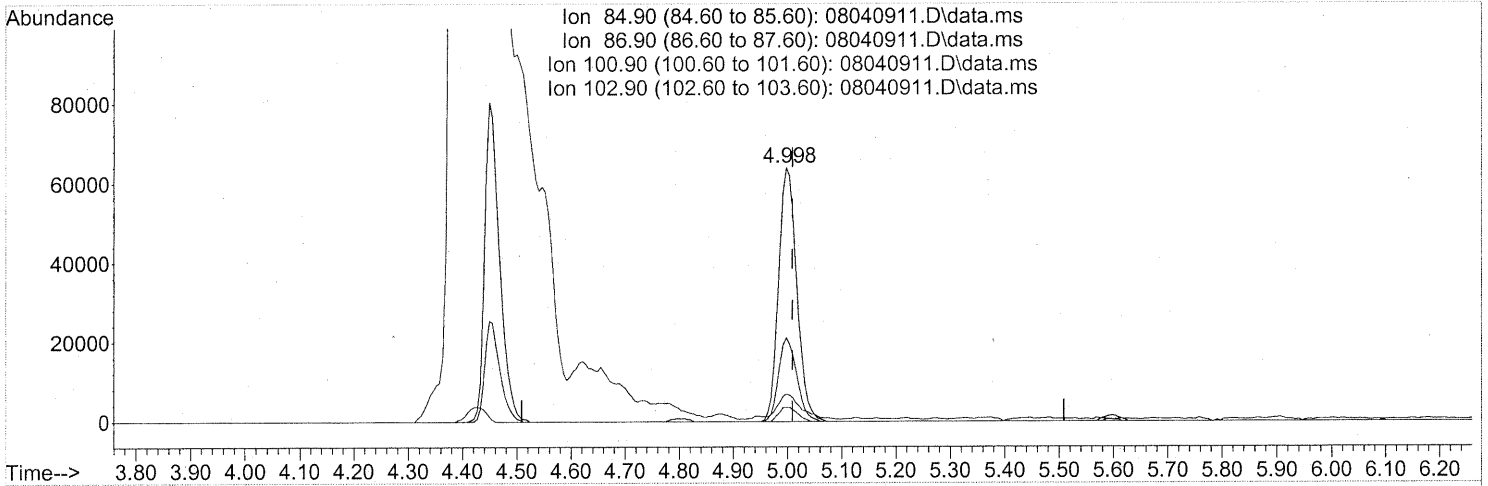
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	109.50
41.10	152.70	160.98
0.00	0.00	0.00

SH → TIC
 Em 8/6/09
 M 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.998min (-0.011) 3.25ng

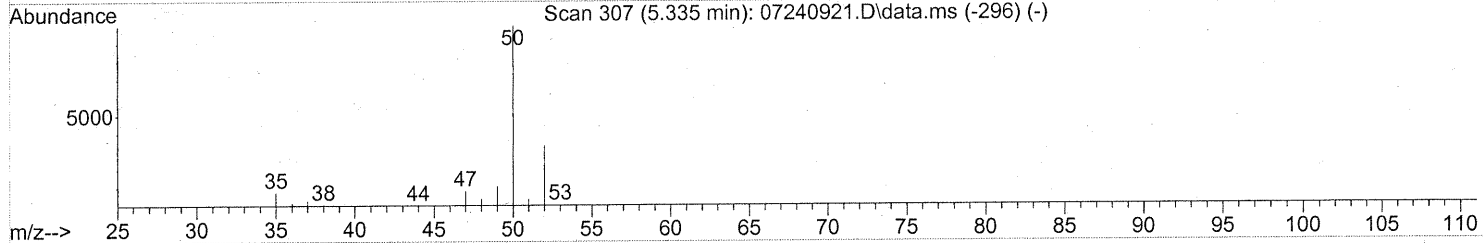
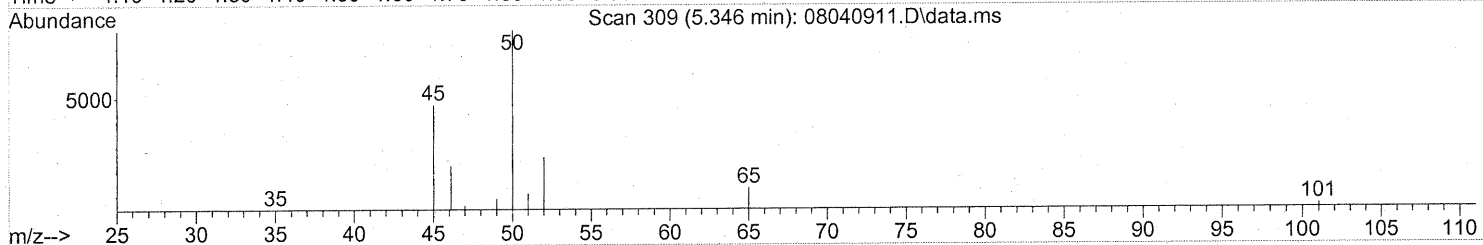
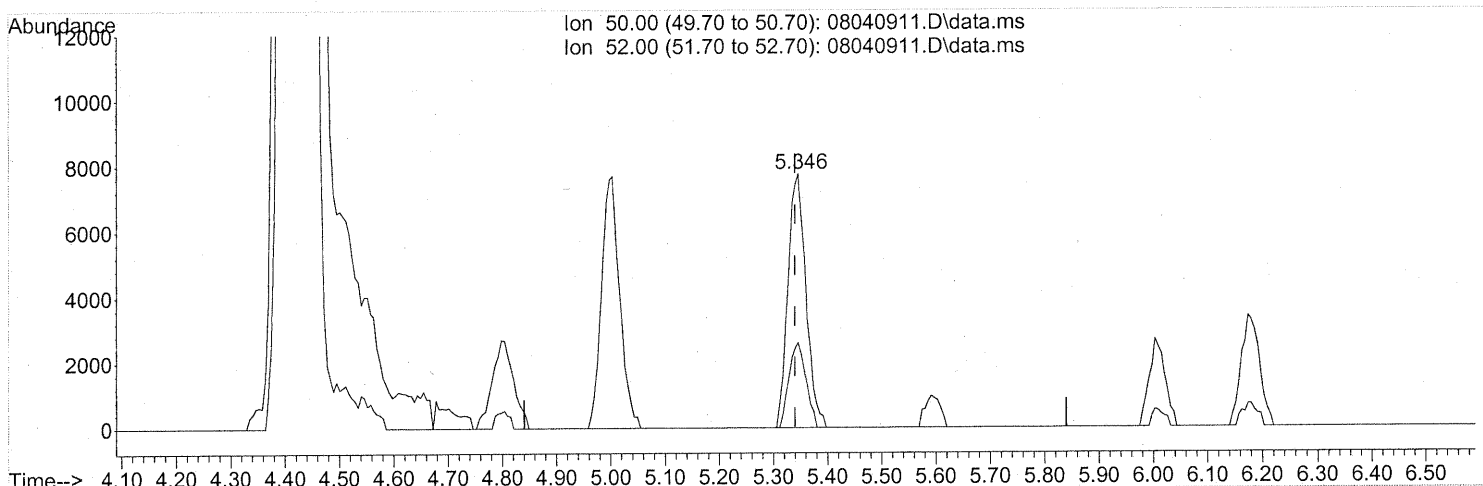
response 147195

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.87
100.90	9.10	12.00
102.90	5.50	5.56

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(4) Chloromethane (T)

5.346min (+0.006) 0.53ng

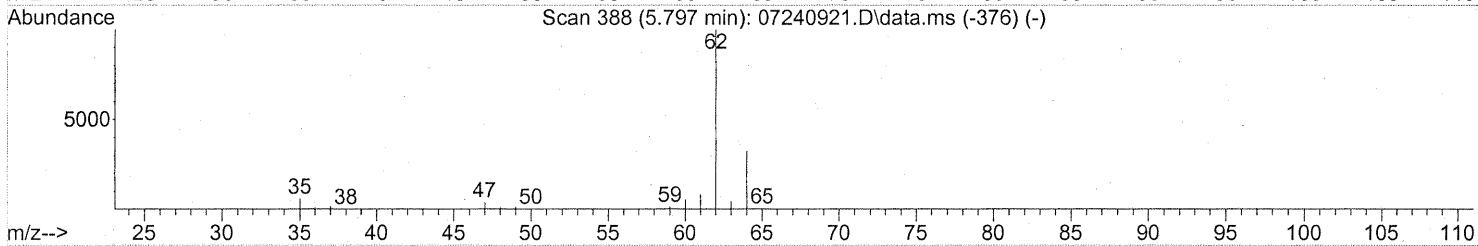
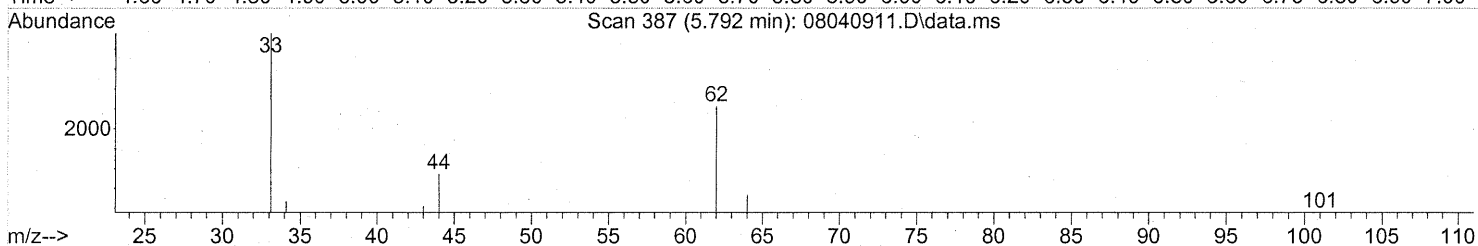
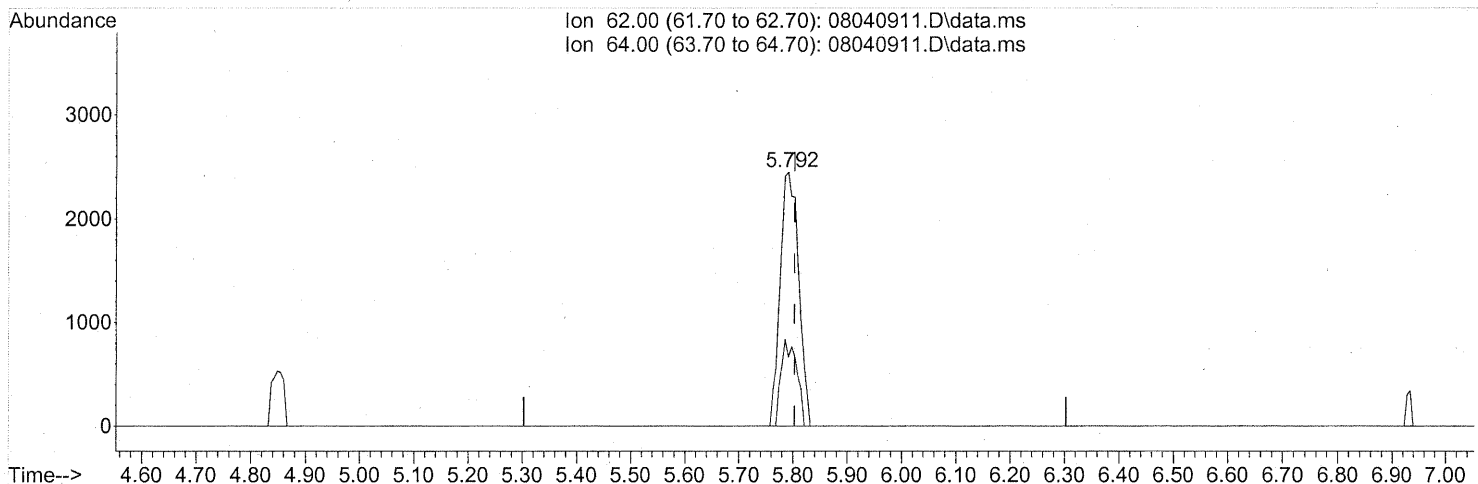
response 17877

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(6) Vinyl Chloride (T)

5.792min (-0.011) 0.16ng

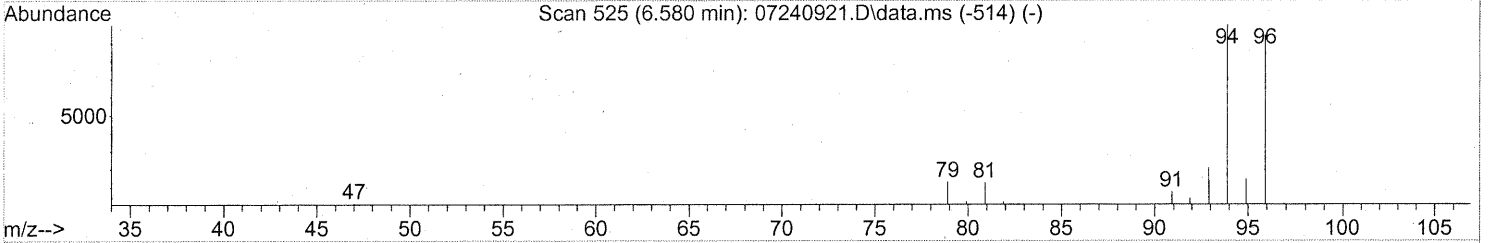
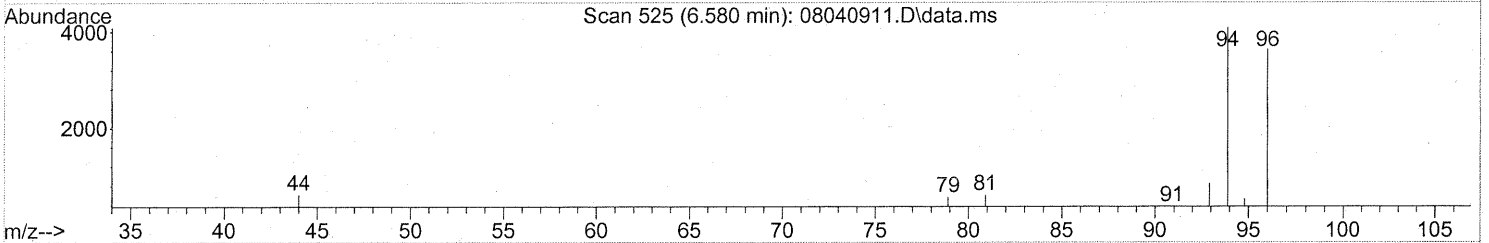
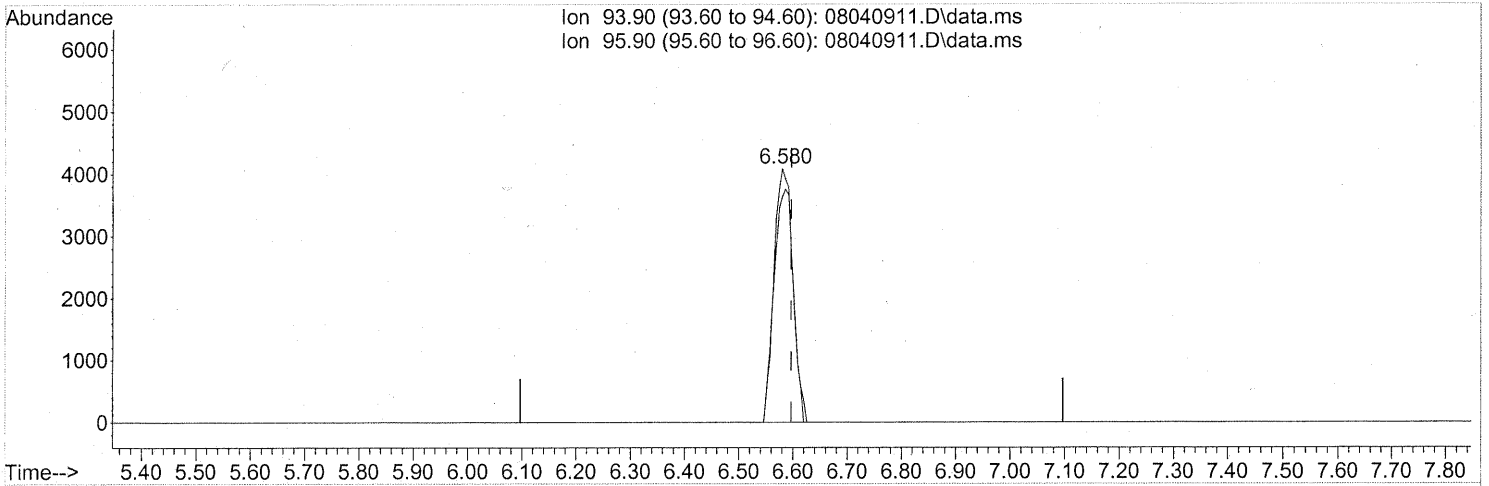
response 5734

Ion	Exp%	Act%
62.00	100	100
64.00	32.40	28.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(8) Bromomethane (T)

6.580min (-0.017) 0.47ng

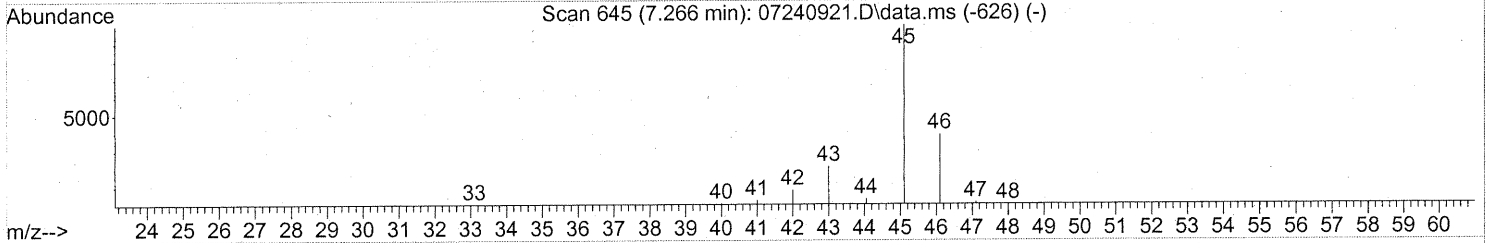
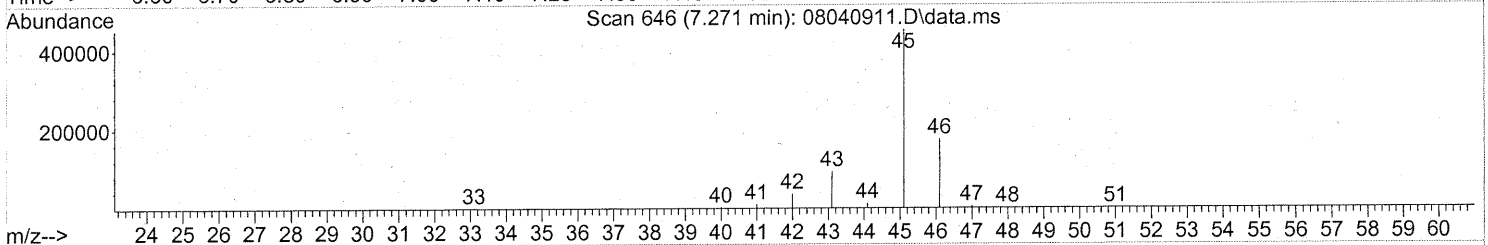
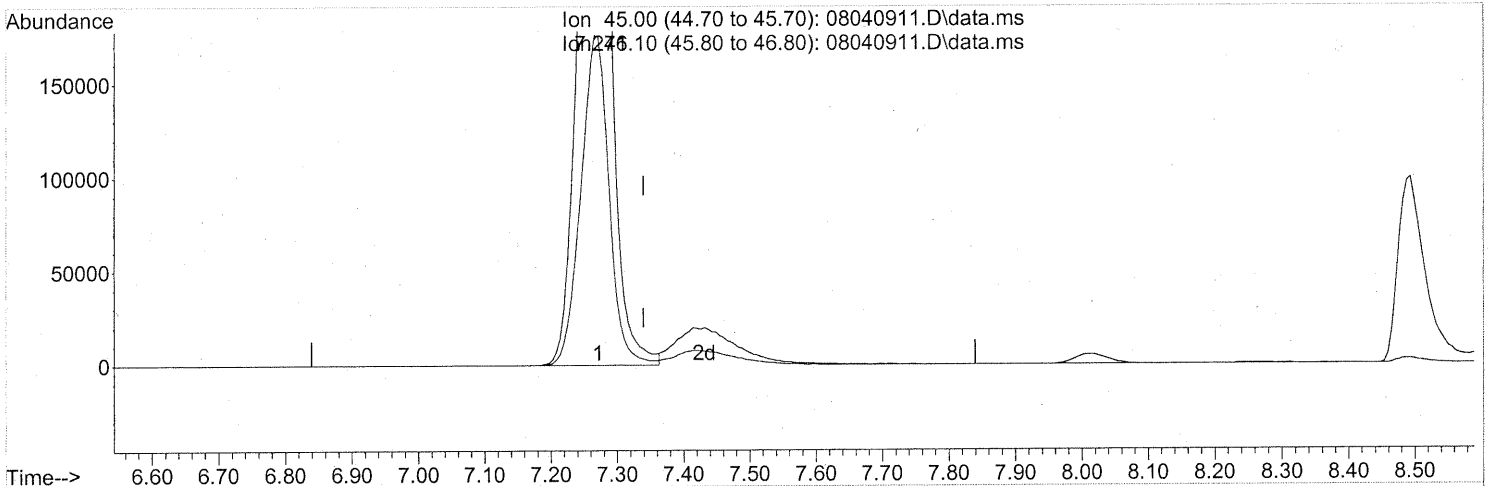
response 9956

Ion	Exp%	Act%
93.90	100	100
95.90	94.20	92.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:08 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(10) Ethanol (T)
 7.271min (-0.069) 88.25ng
 response 1328269

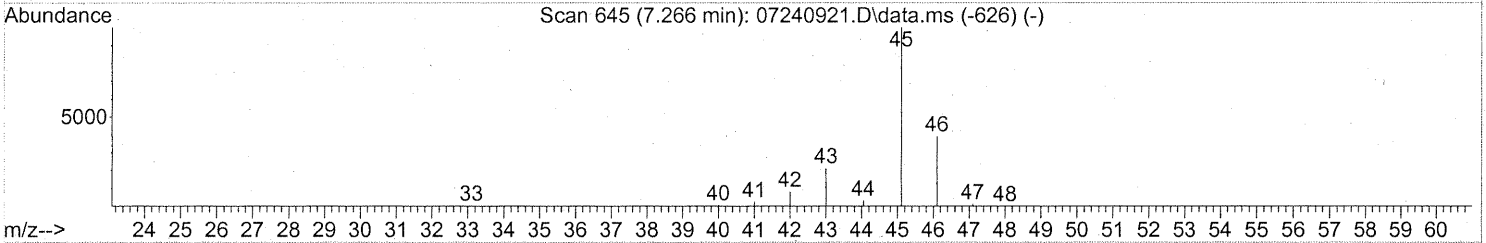
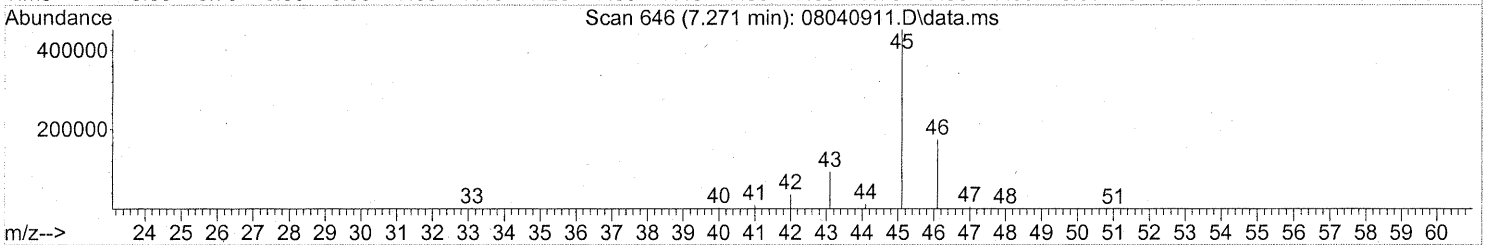
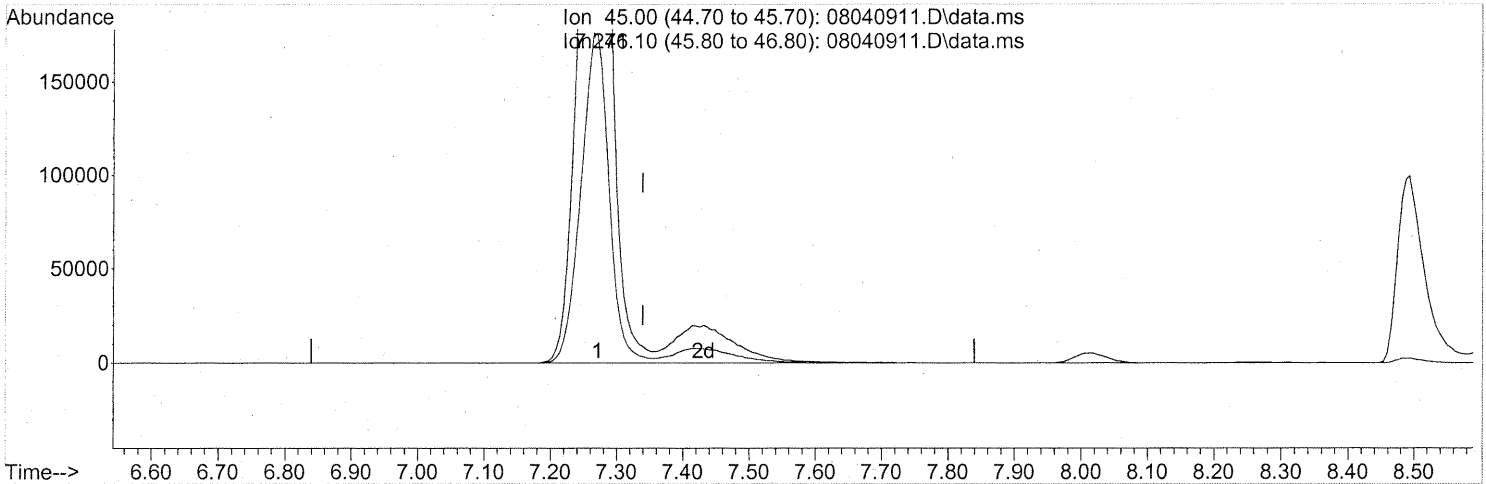
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.96
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:08 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(10) Ethanol (T)

7.271min (-0.069) 96.78ng m

response 1456563

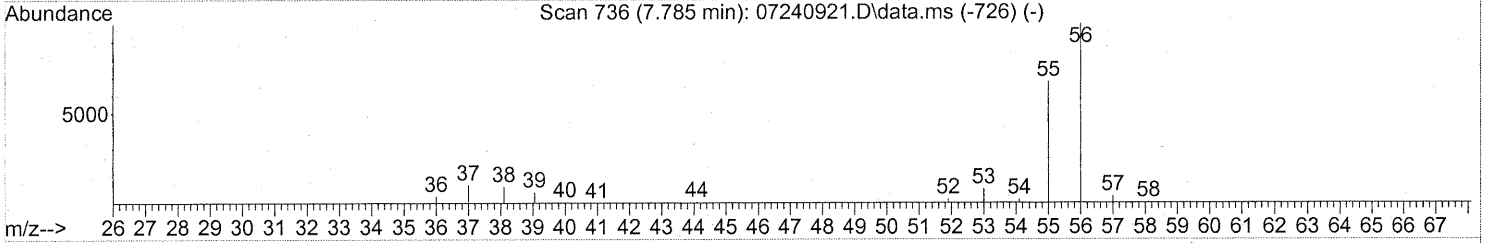
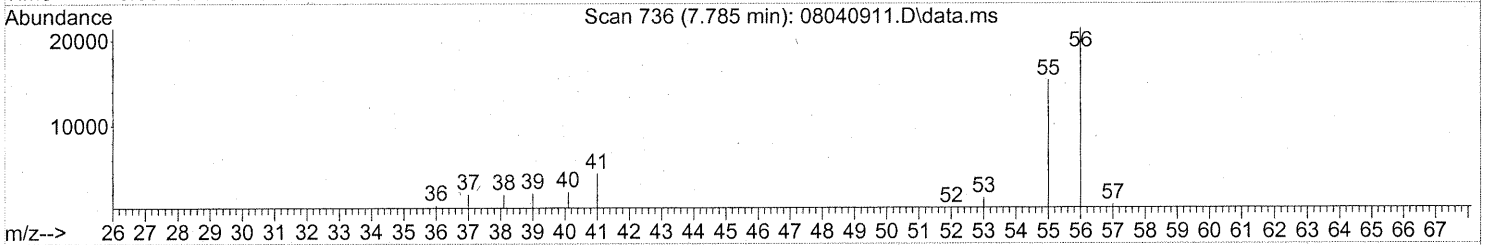
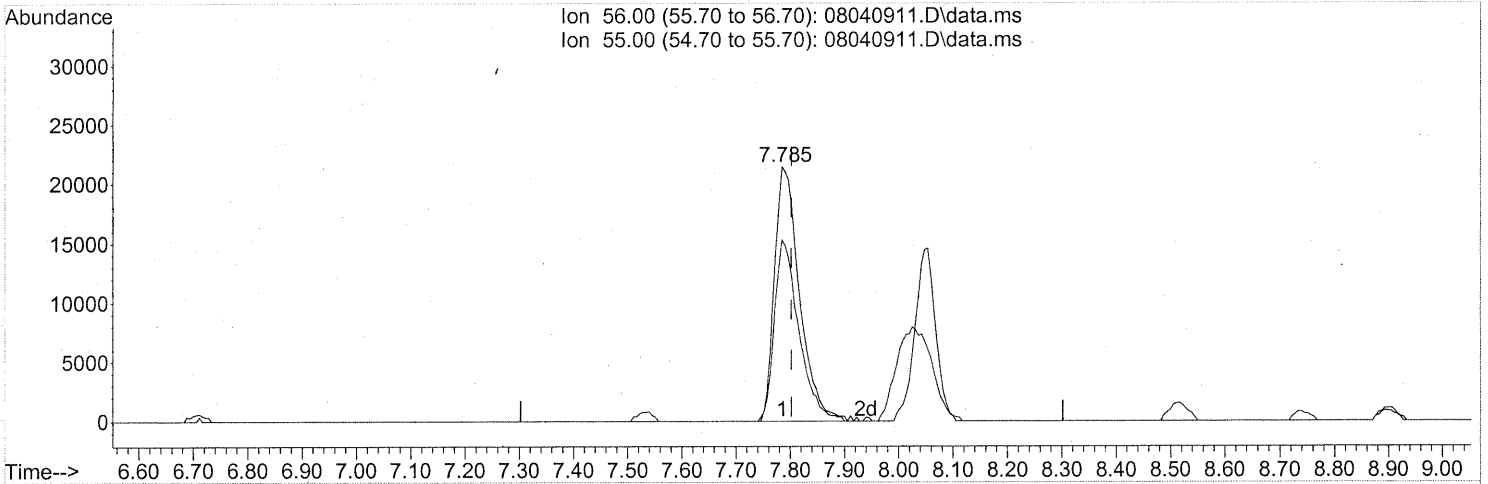
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	35.53
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
Em 8/6/09
11/8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(12) Acrolein (T)

7.785min (-0.017) 6.33ng

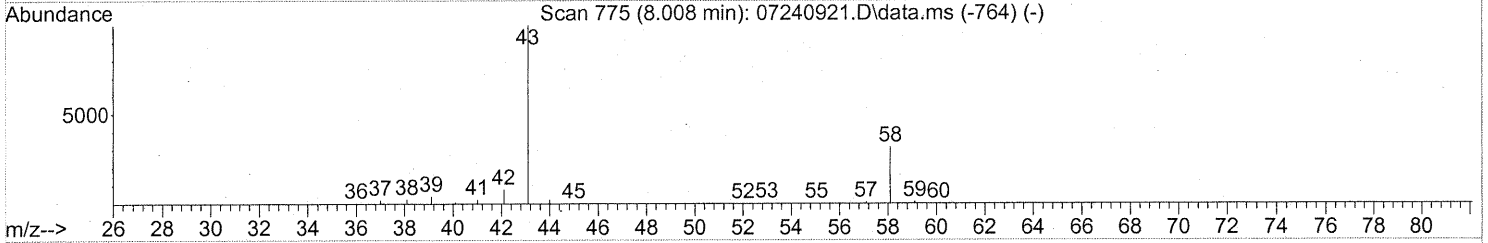
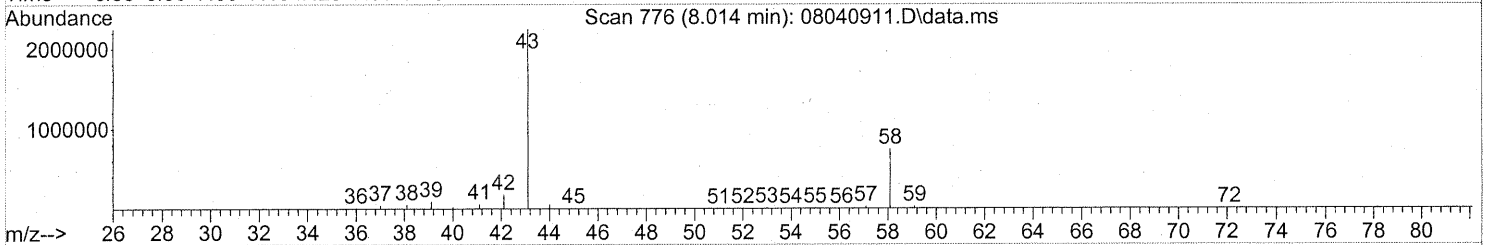
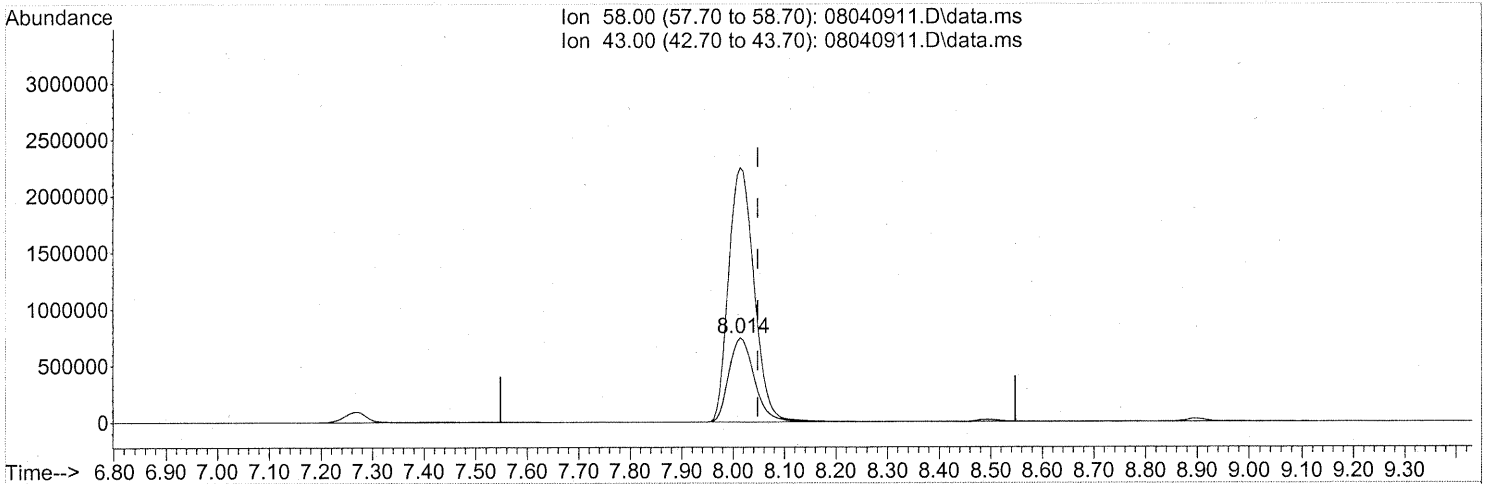
response 69409

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(13) Acetone (T)

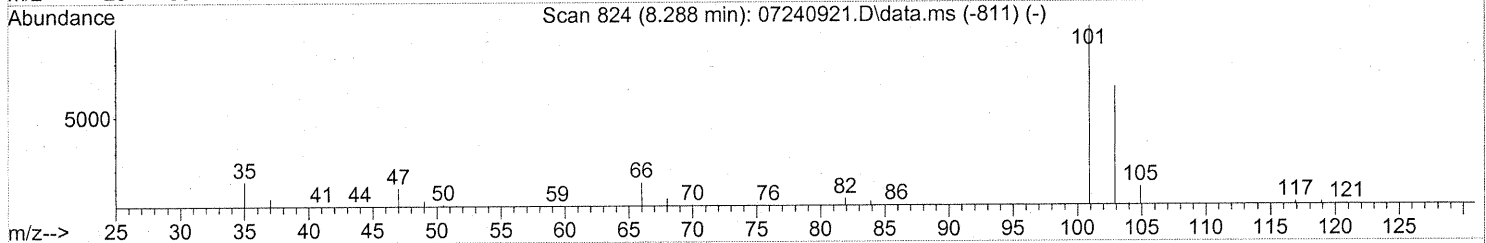
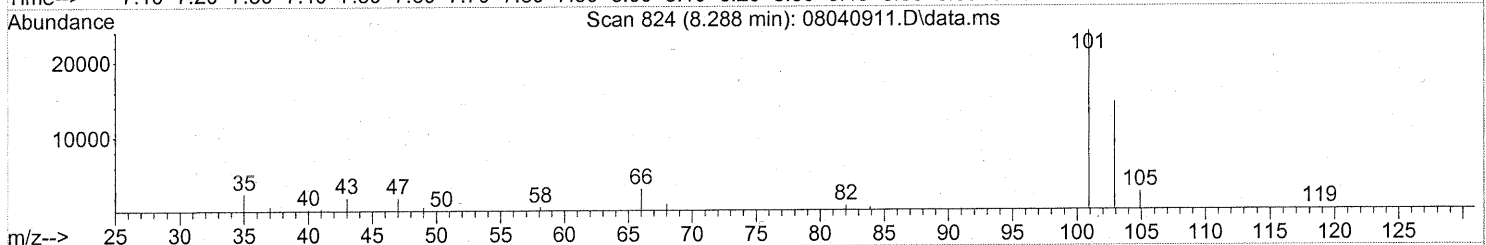
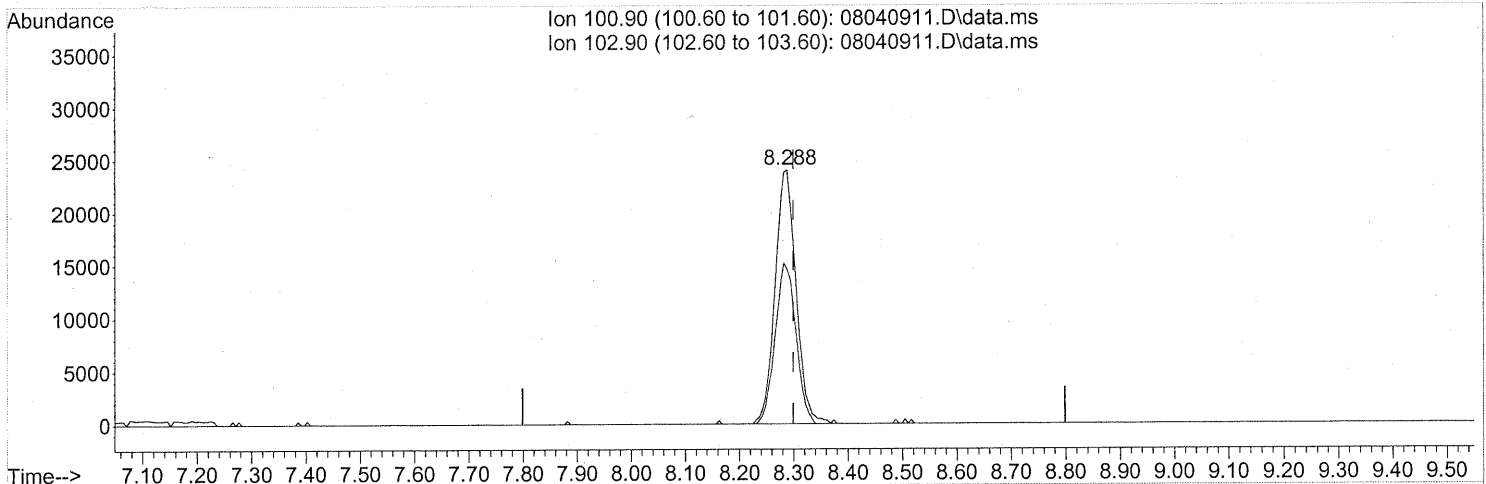
8.014min (-0.034) 149.72ng
 response 2563086

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	304.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.011) 1.62ng

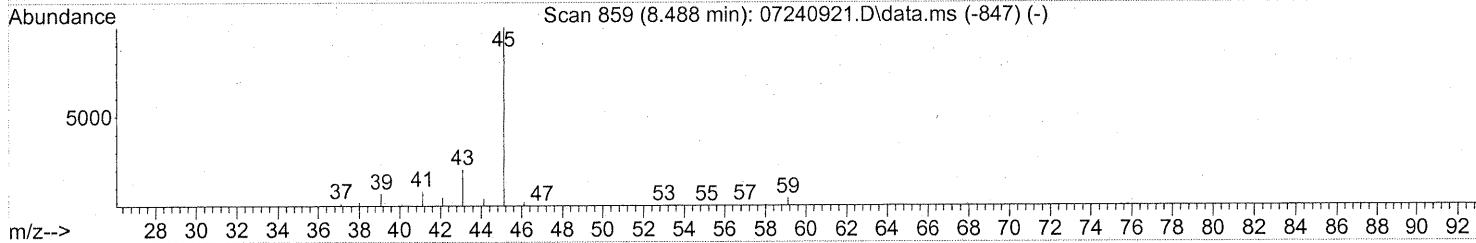
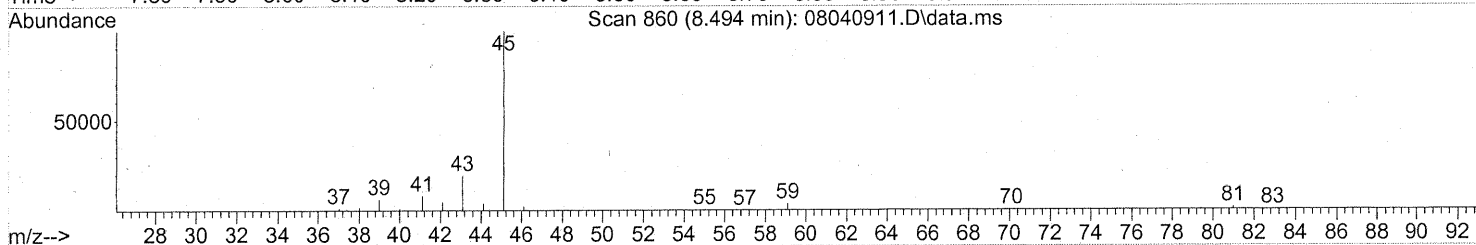
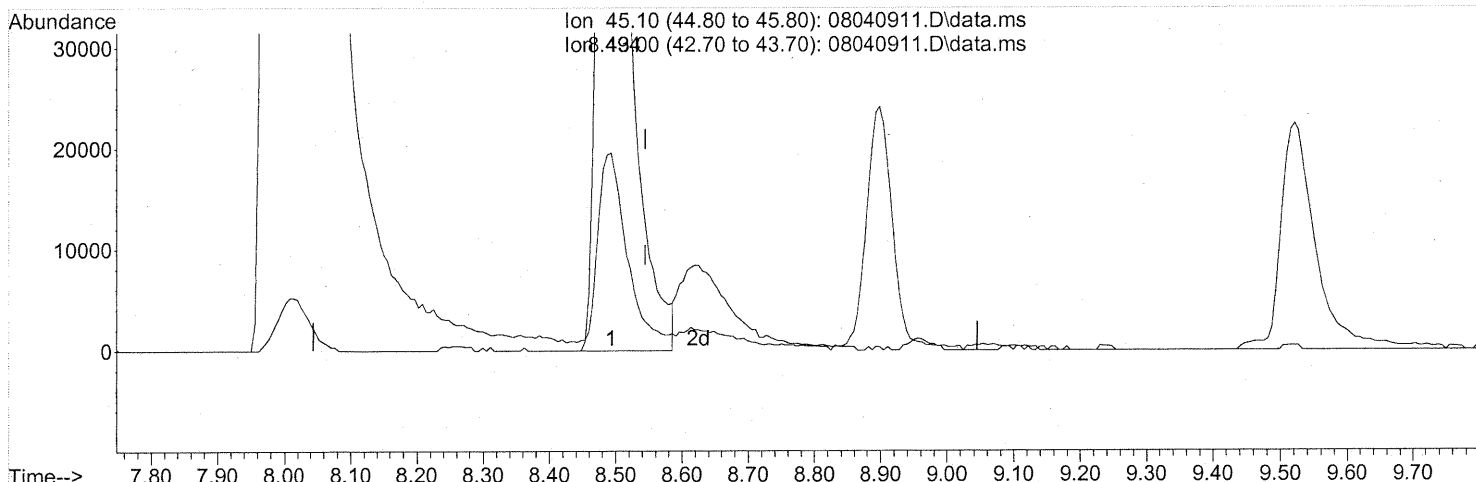
response 64042

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	62.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:08 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 6.34ng

response 285771

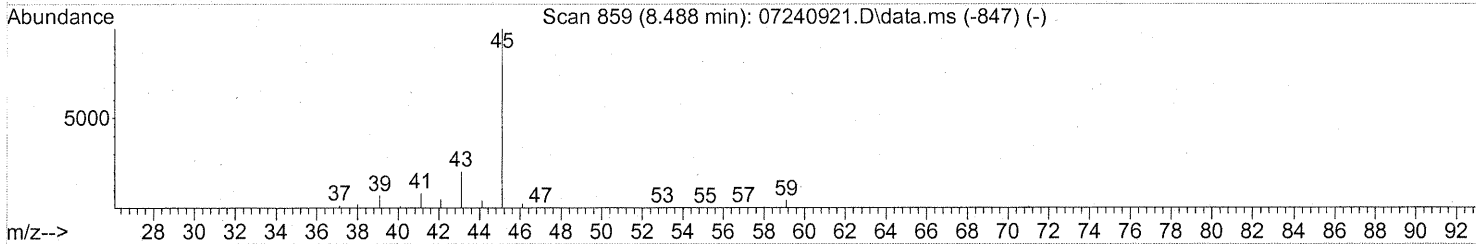
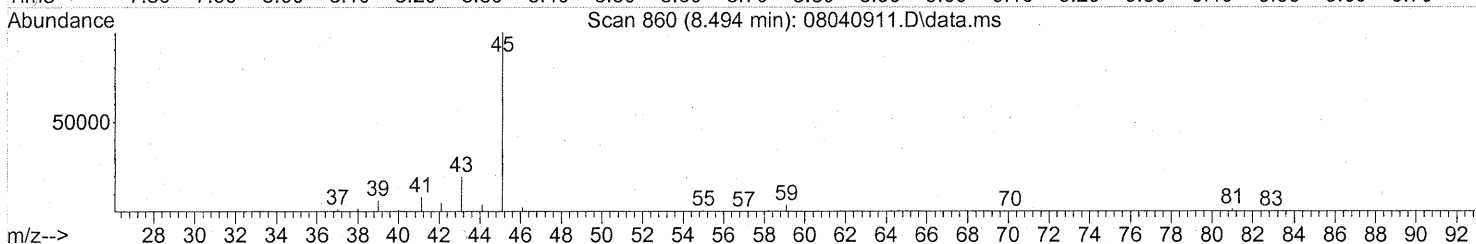
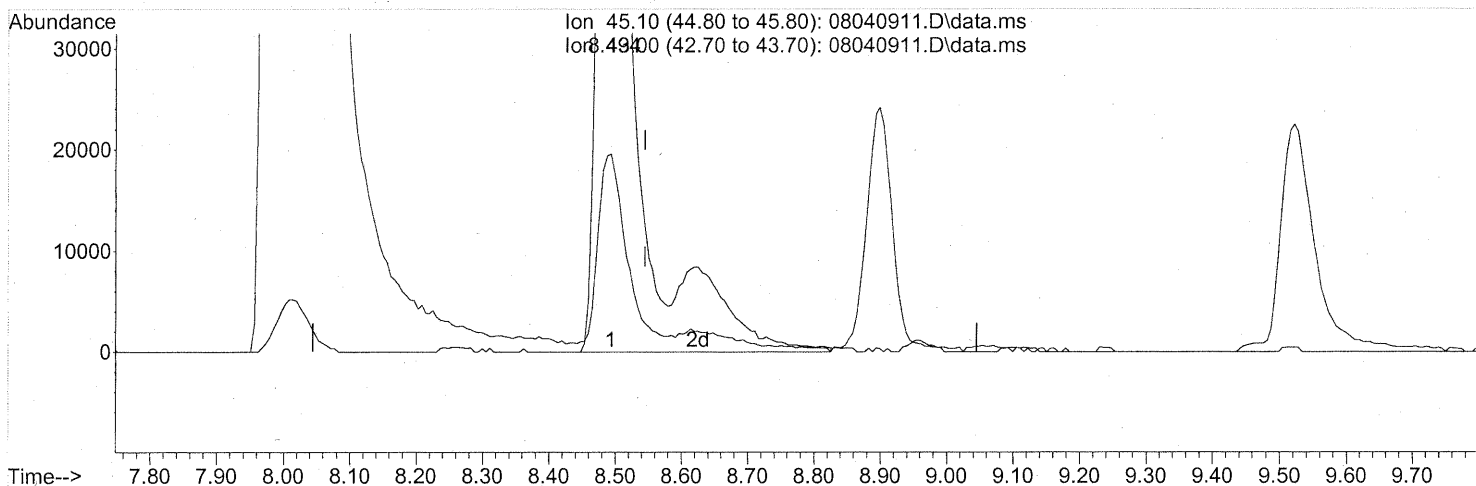
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.18
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:08 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

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

8.494min (-0.051) 7.39ng m

response 332831

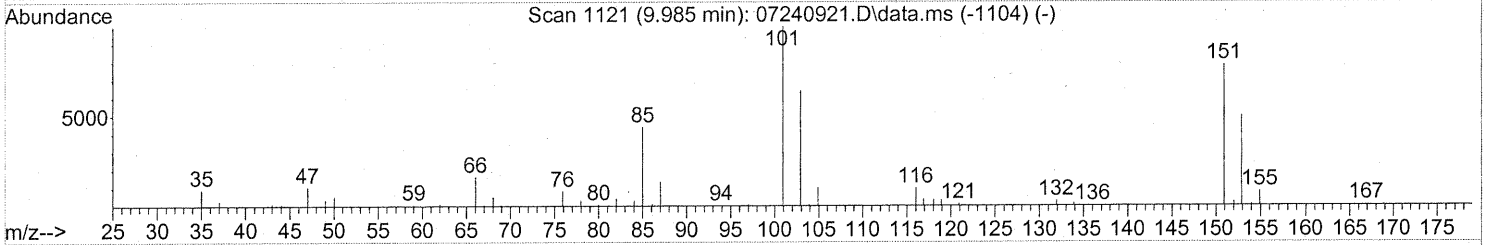
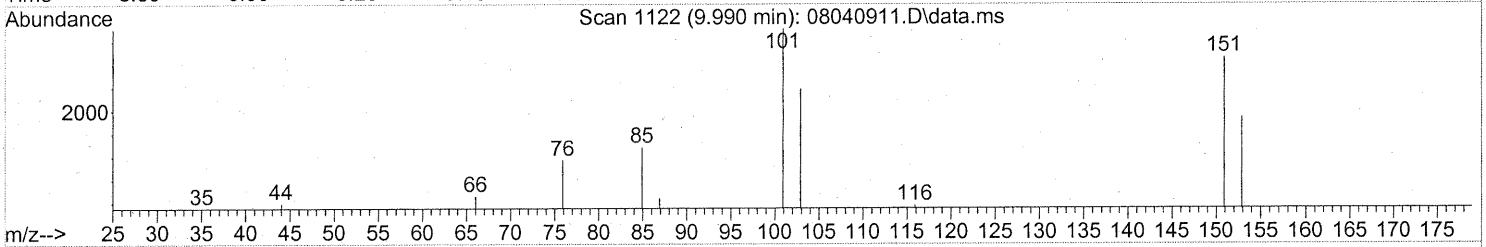
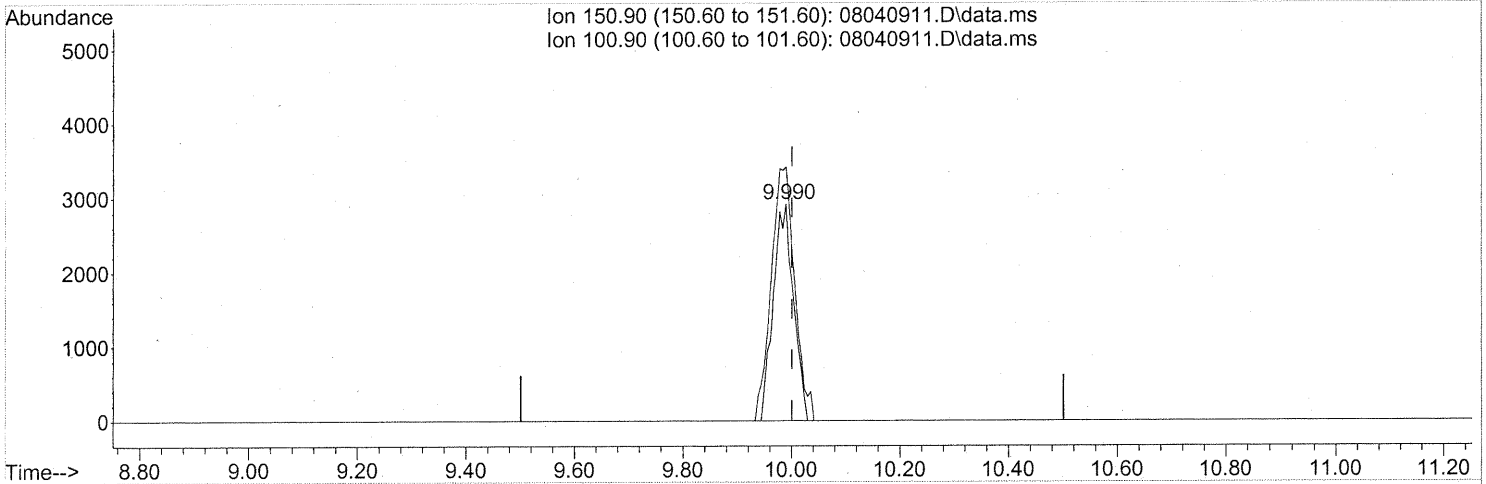
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.47
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
 em 8/6/09
 em 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.990min (-0.011) 0.42ng

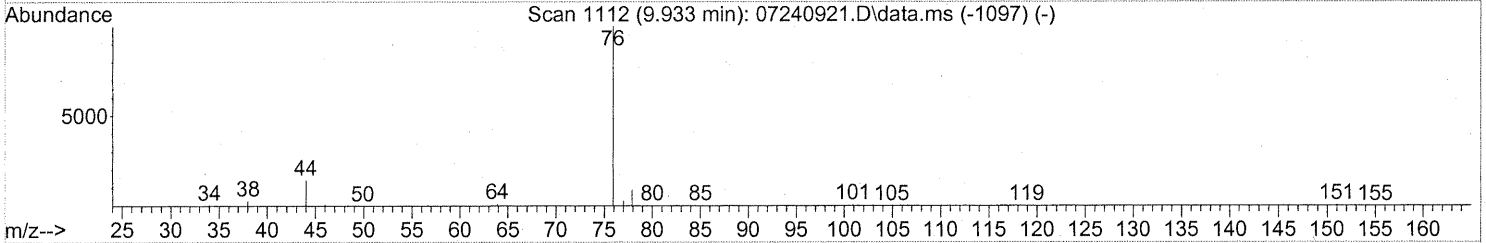
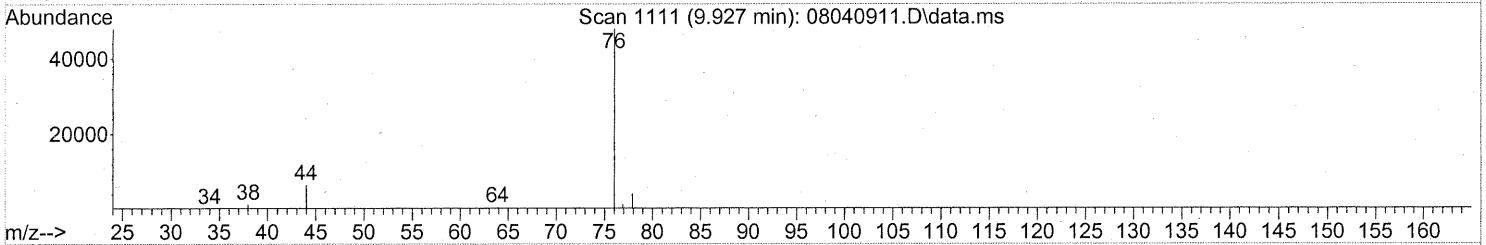
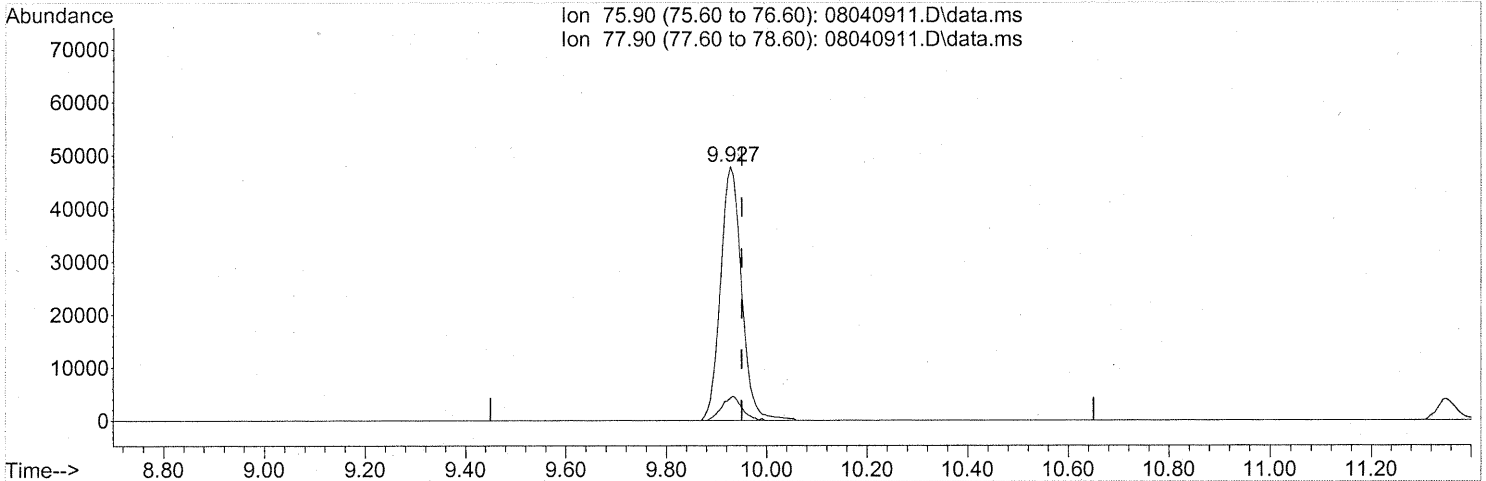
response 7531

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	136.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(22) Carbon Disulfide (T)

9.927min (-0.023) 1.81ng

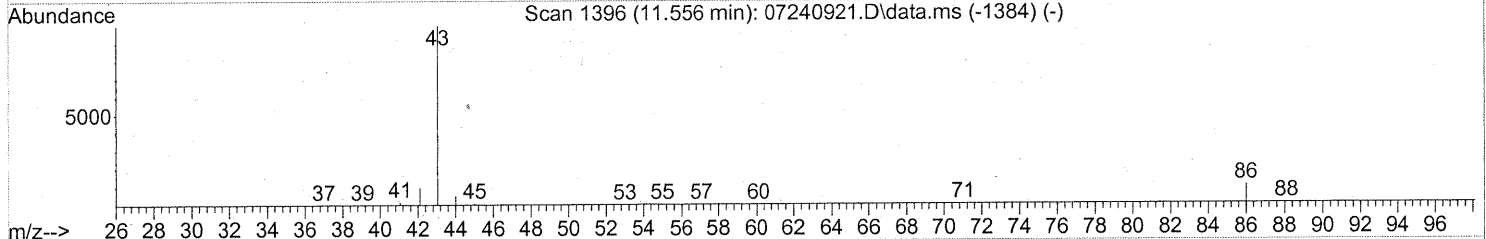
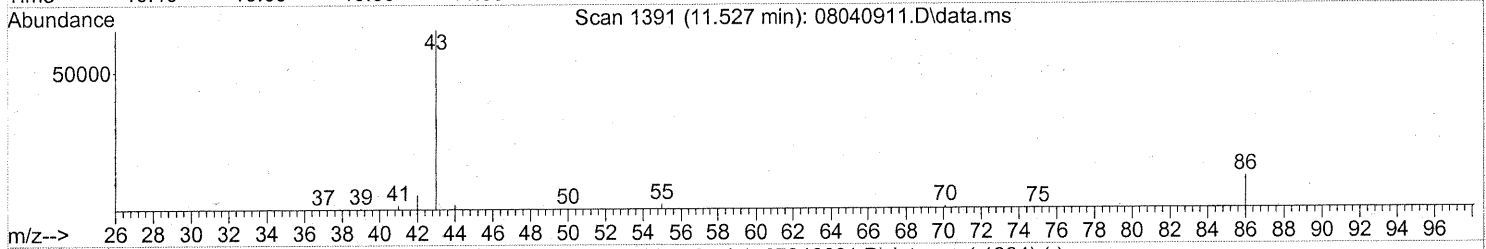
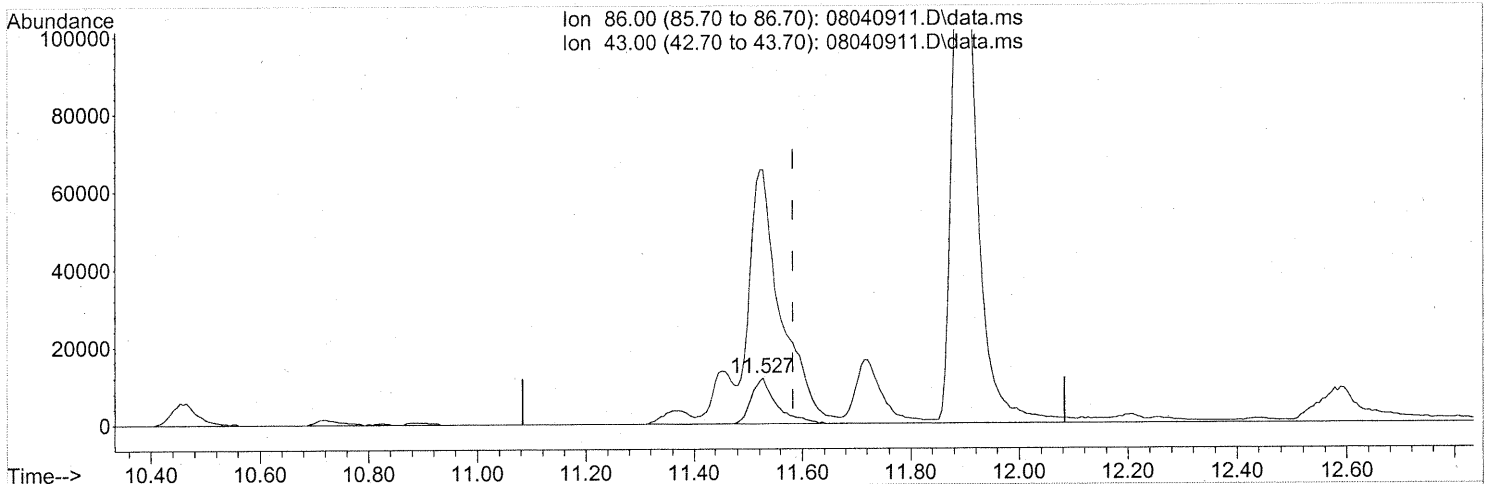
response 139566

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

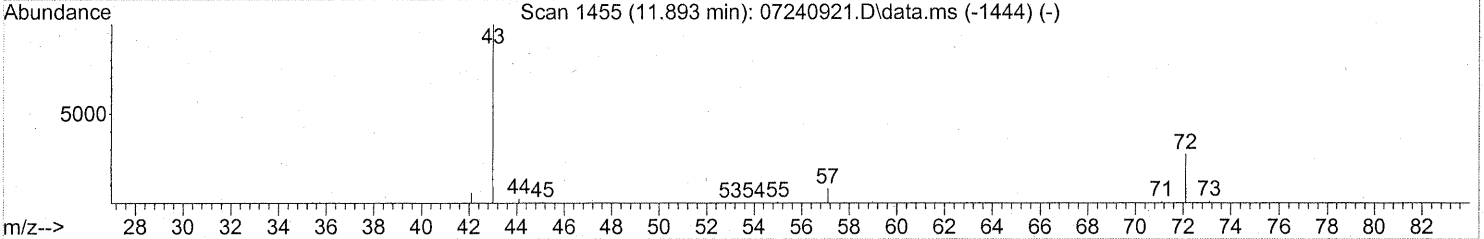
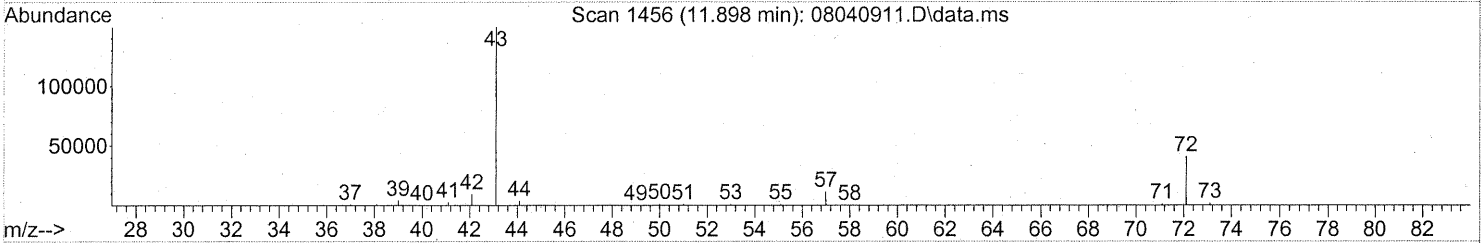
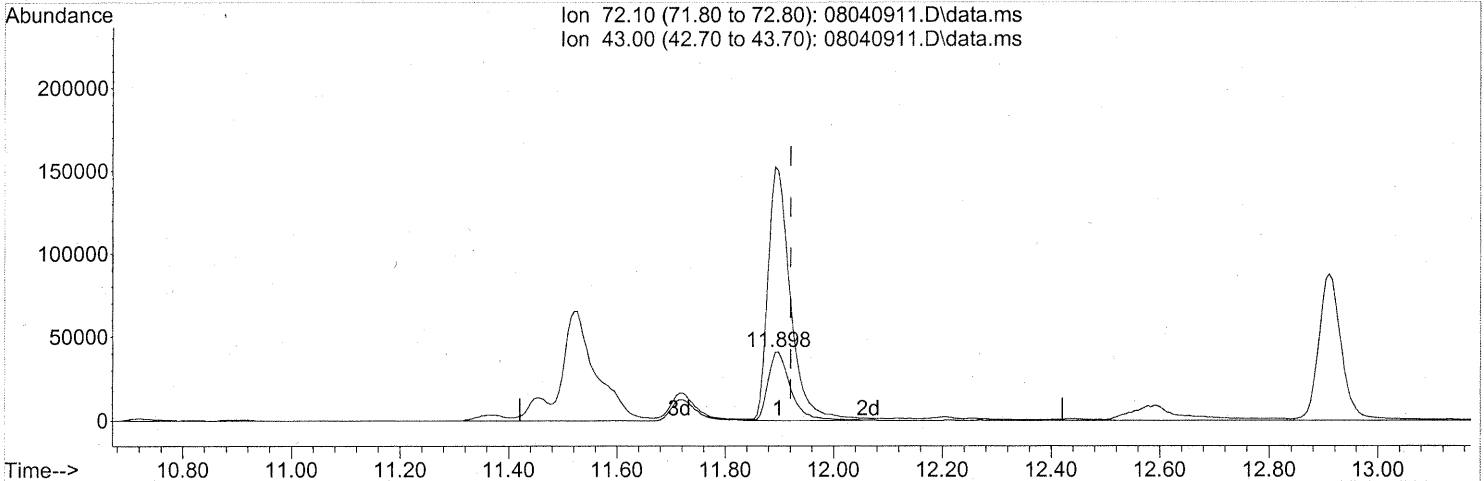
(26) Vinyl Acetate (T)
 11.527min (-0.057) 9.18ng
 response 37480

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	686.83#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

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

11.898min (-0.023) 9.04ng

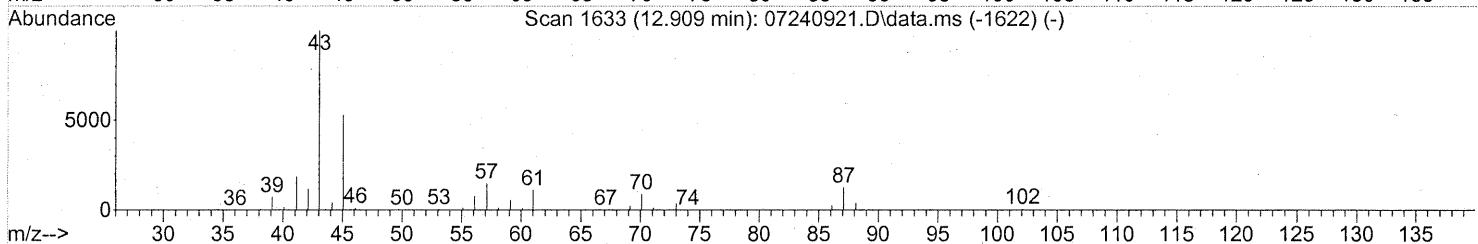
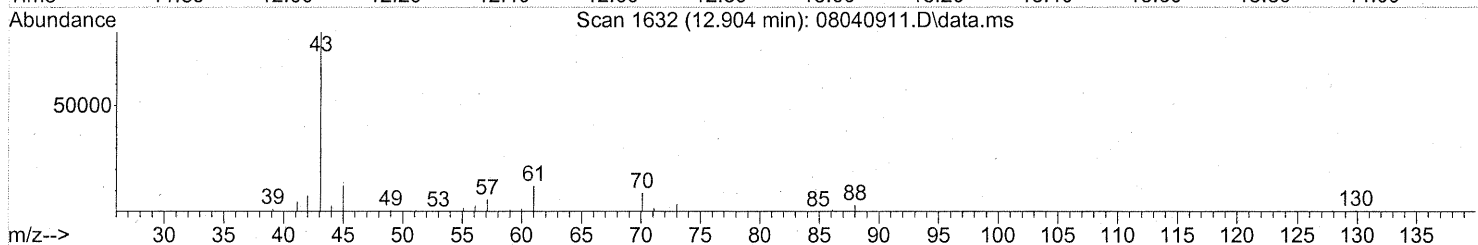
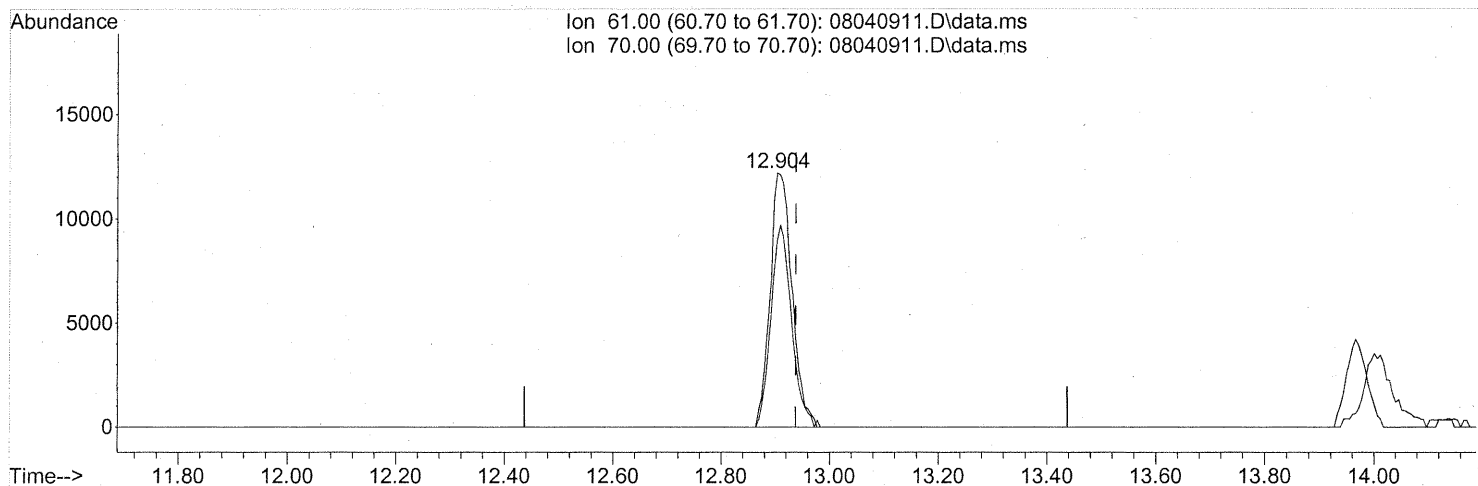
response 118033

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	363.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040911.D
Acq On : 4 Aug 2009 13:52
Operator : EM
Sample : P0902624-002 dup (1000ml)
Misc : Environmental H & E 99442
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040911.D\data.ms

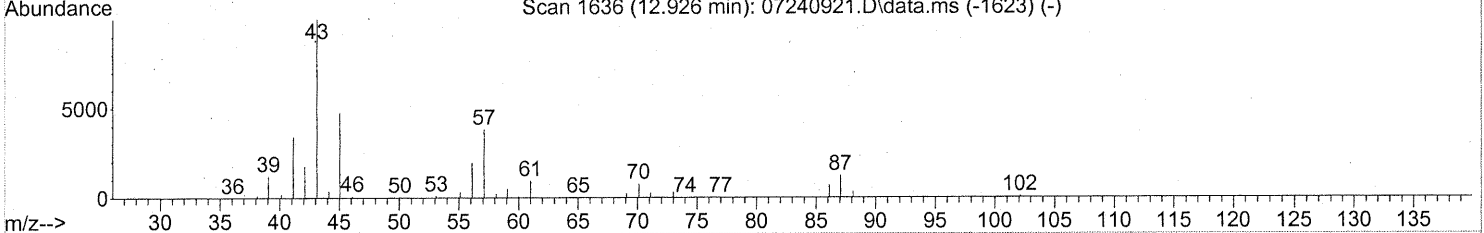
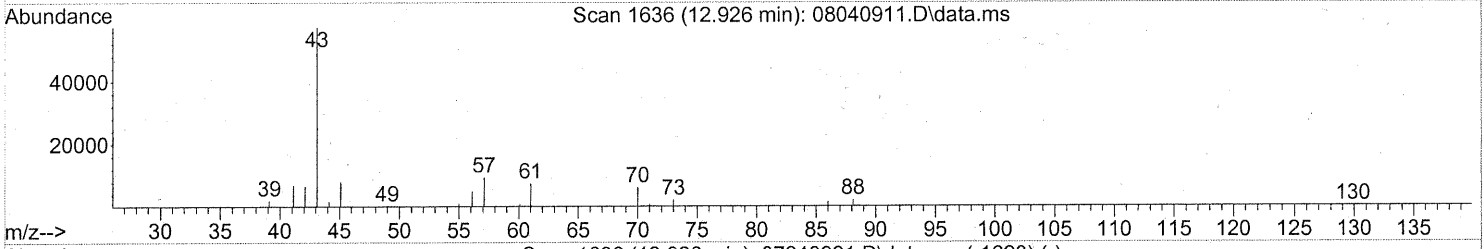
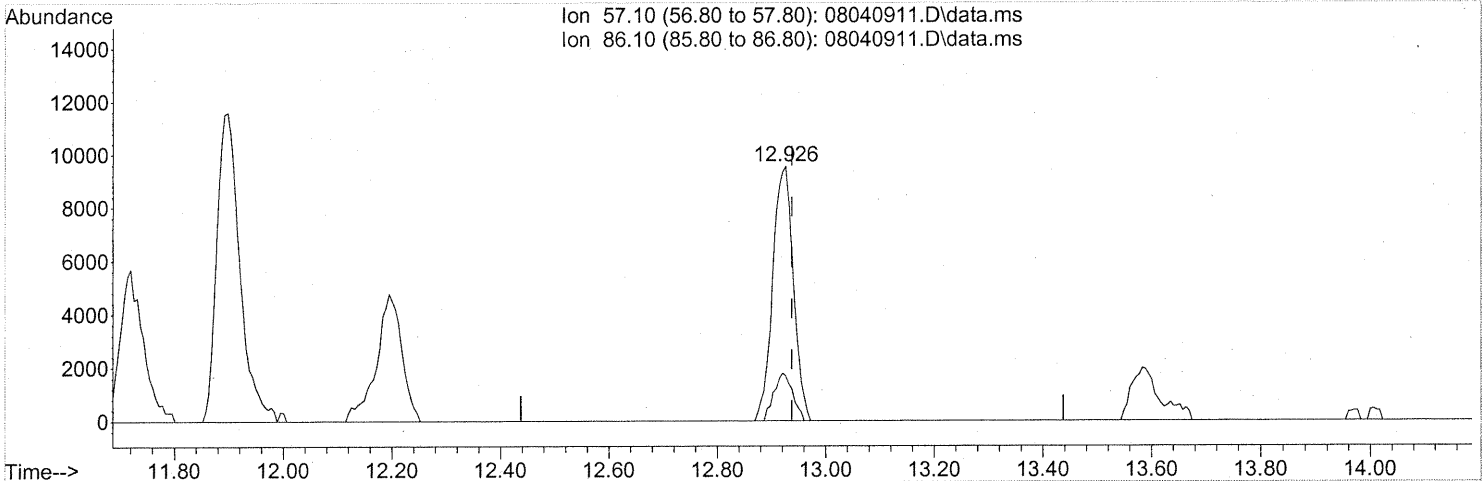
(30) Ethyl Acetate (T)
12.904min (-0.034) 4.03ng
response 34476

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	74.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



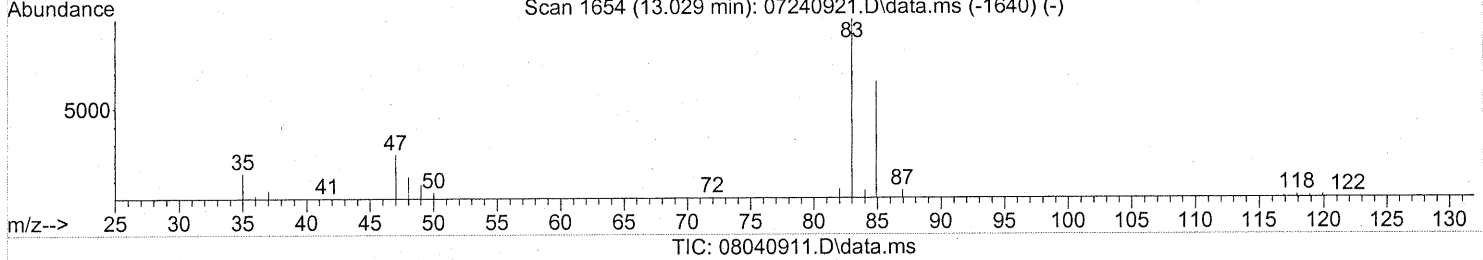
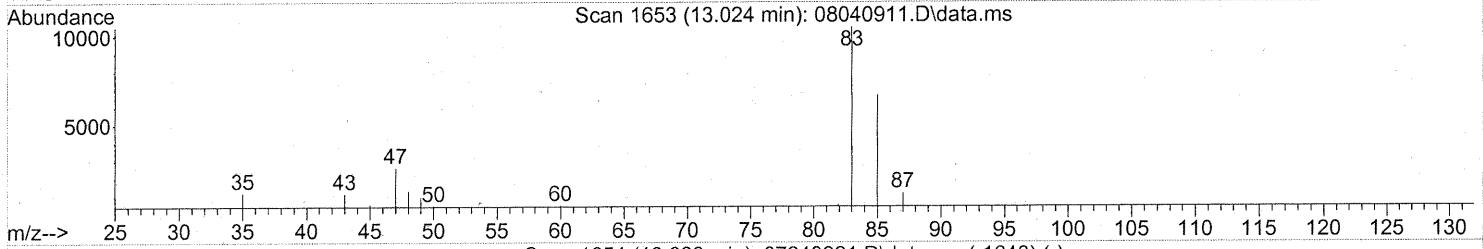
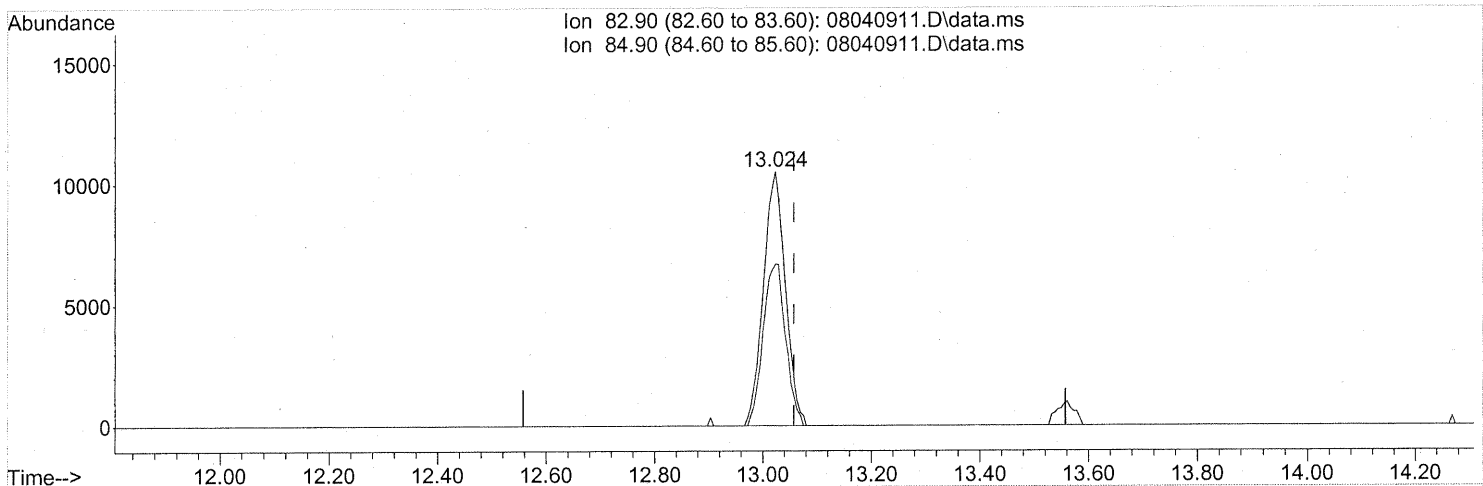
(31) n-Hexane (T)
 12.926min (-0.011) 0.63ng
 response 25106

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	16.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

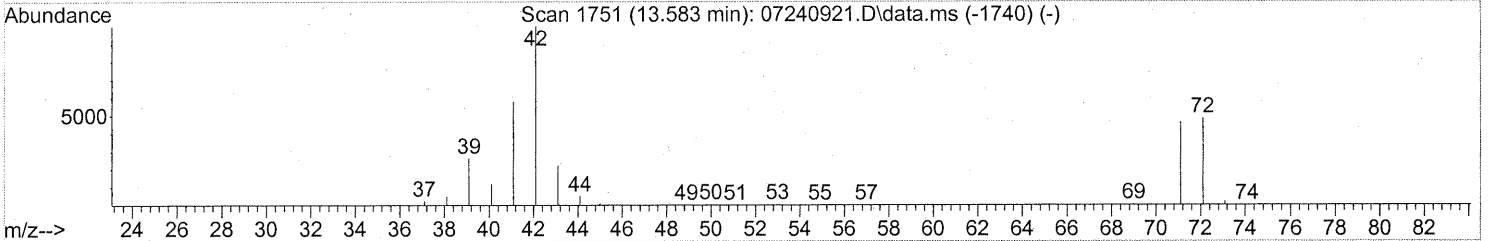
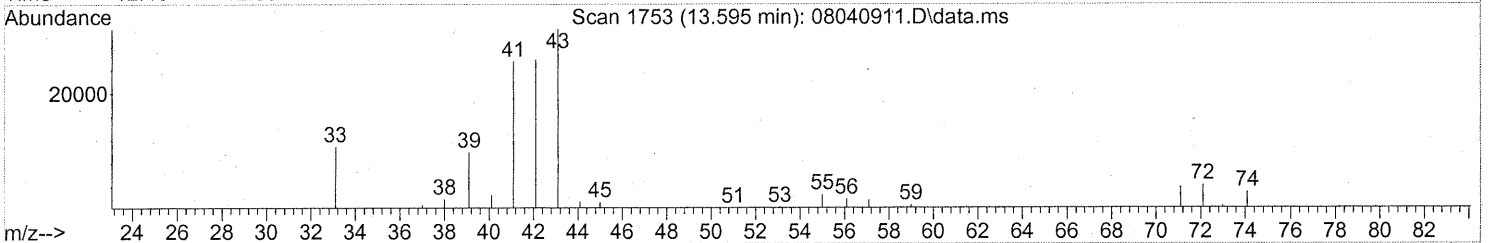
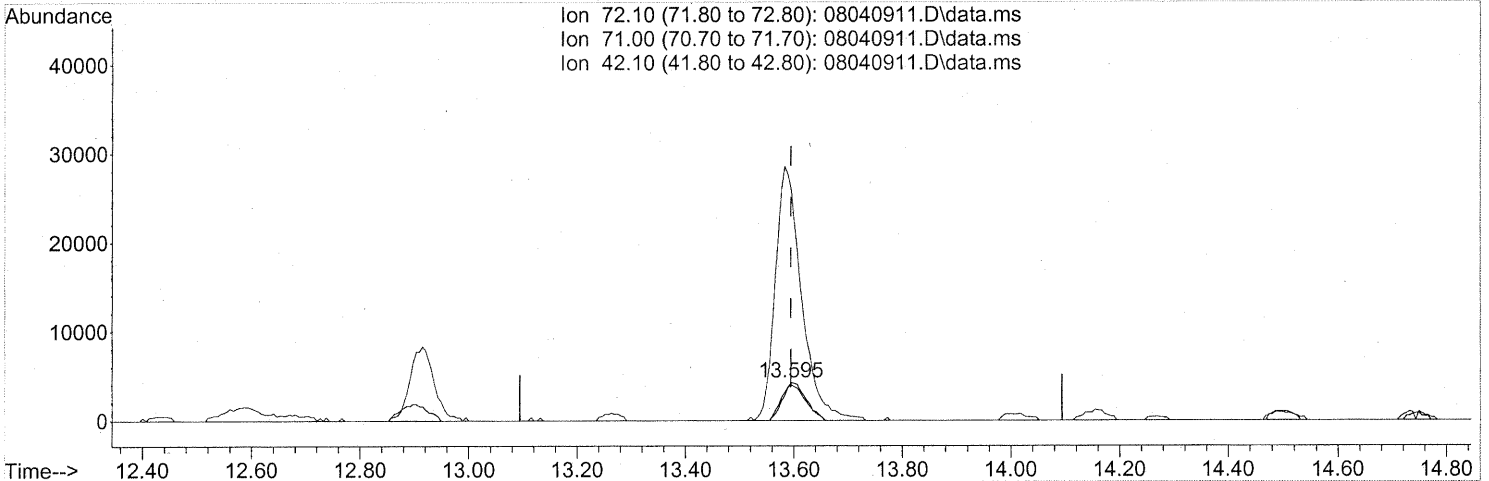
(32) Chloroform (T)
 13.024min (-0.034) 0.83ng
 response 29706

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.595min (+0.000) 1.07ng

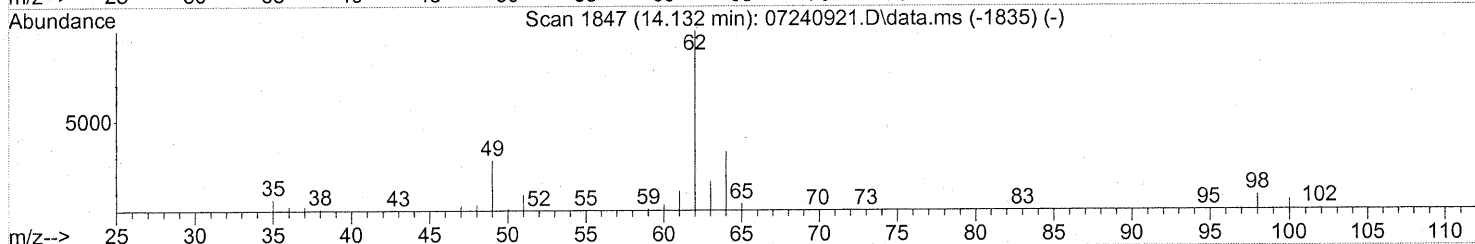
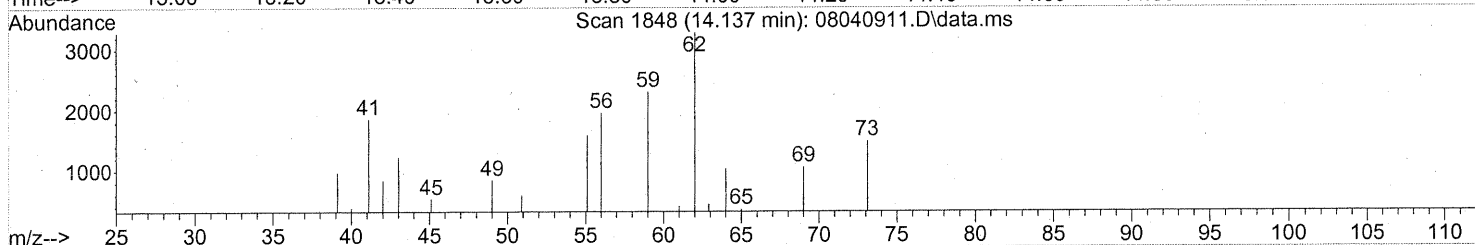
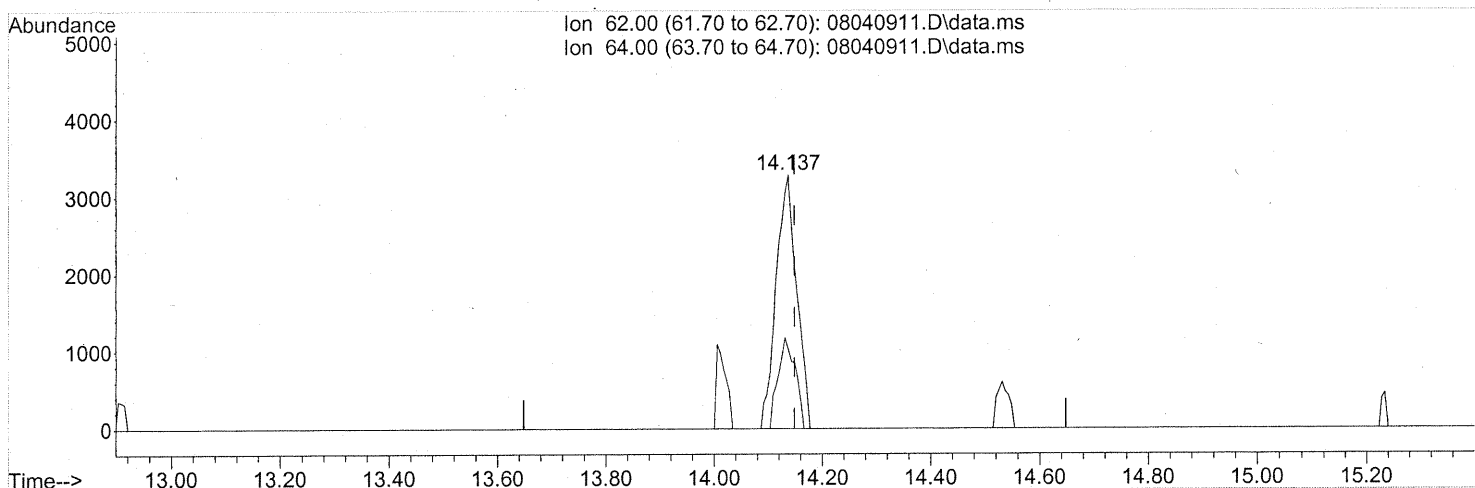
response 13205

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	89.18
42.10	206.50	723.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(36) 1,2-Dichloroethane (T)

14.137min (-0.011) 0.30ng

response 8654

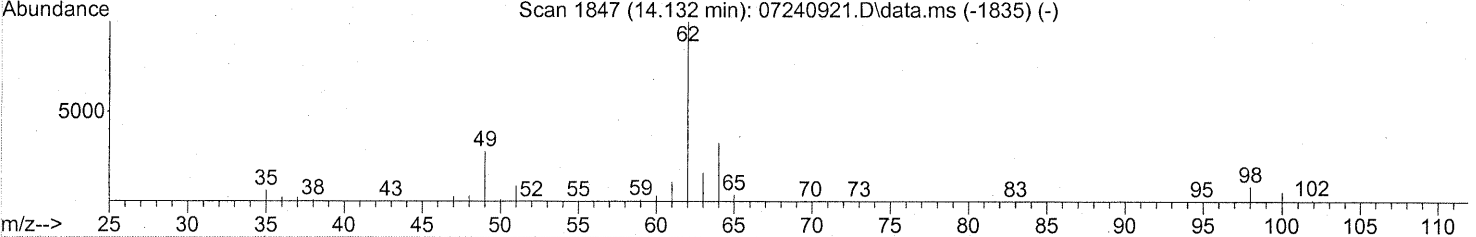
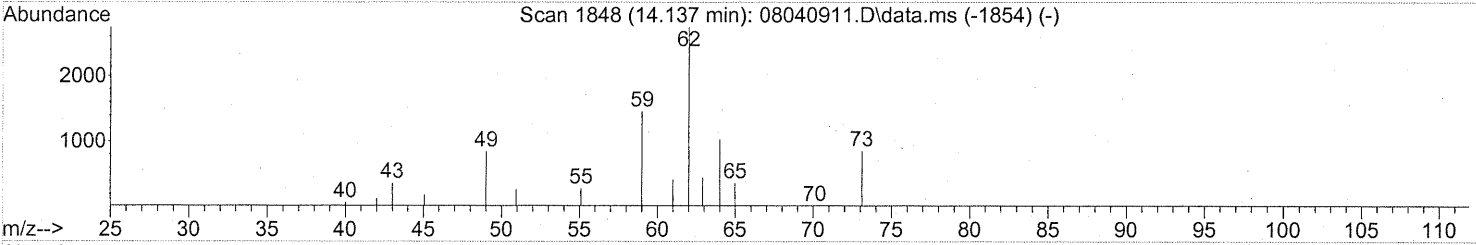
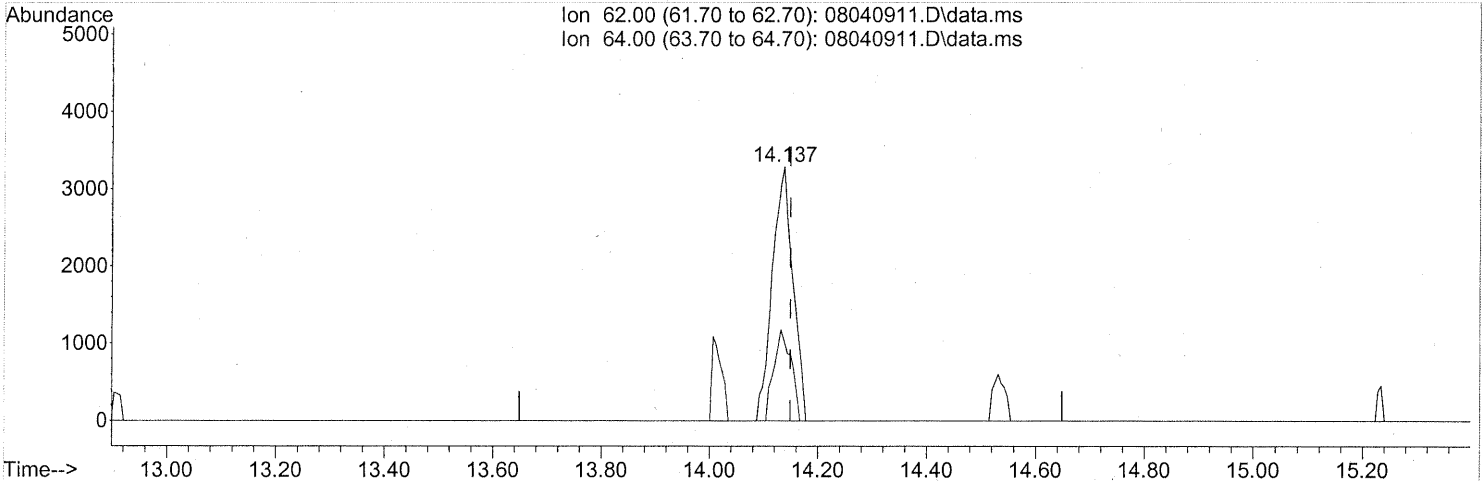
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	30.09
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(36) 1,2-Dichloroethane (T)

14.137min (-0.011) 0.30ng

response 8654

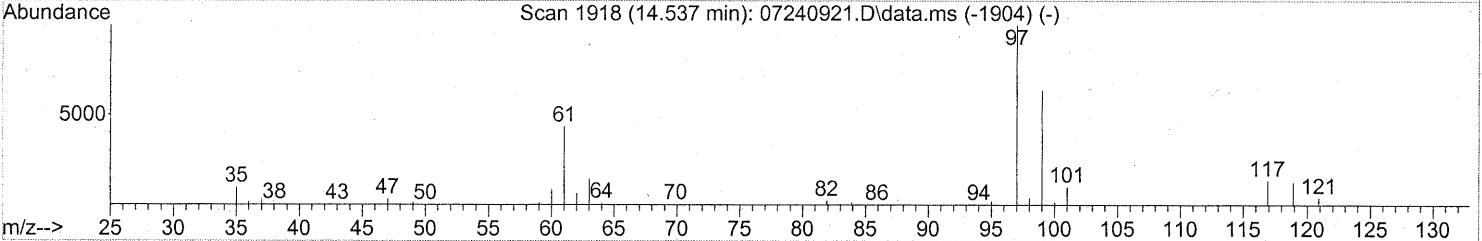
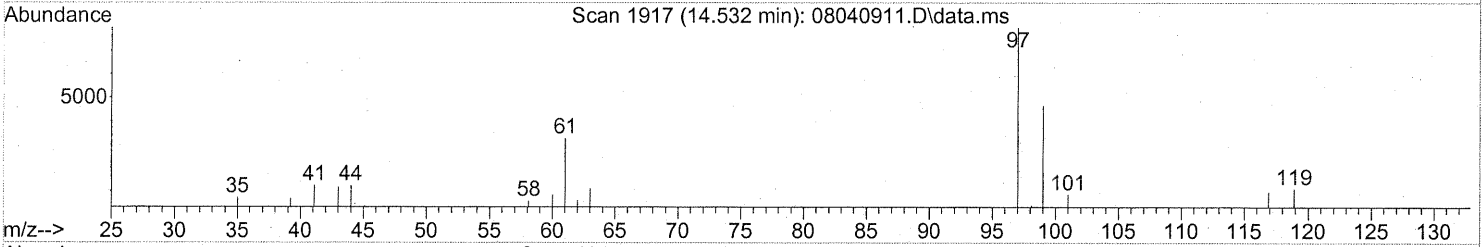
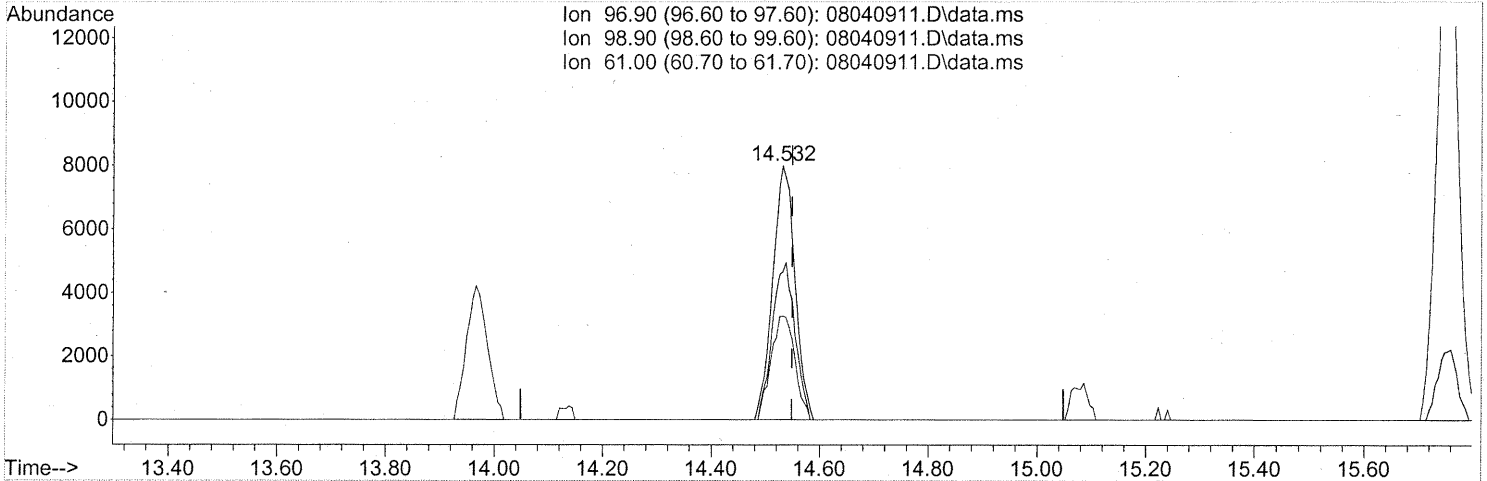
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	30.09
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 Com 8/11/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040911.D
Acq On : 4 Aug 2009 13:52
Operator : EM
Sample : P0902624-002 dup (1000ml)
Misc : Environmental H & E 99442
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040911.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.532min (-0.017) 0.69ng

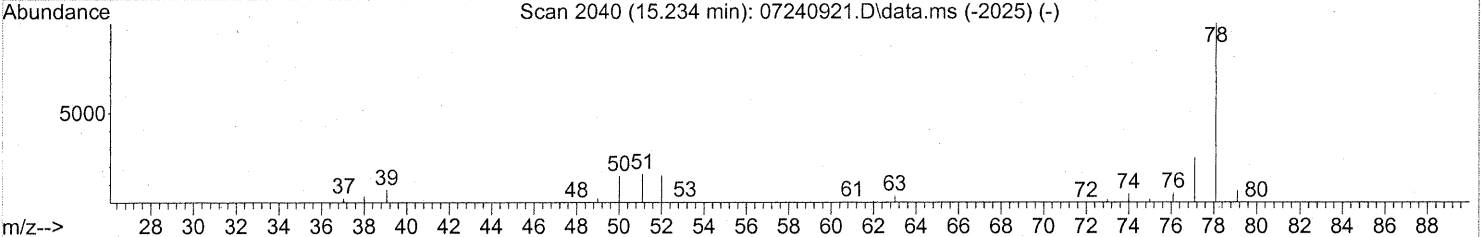
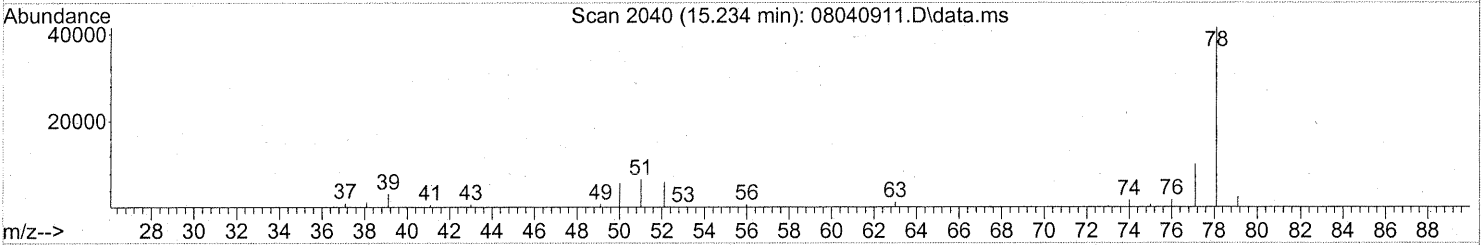
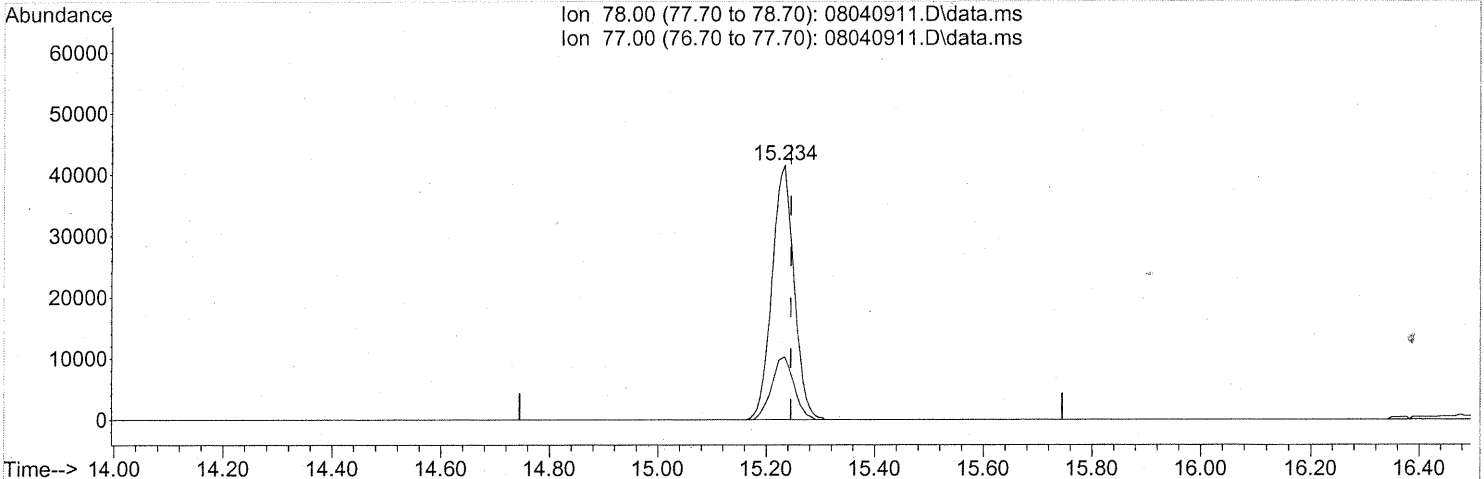
response 22773

Ion	Exp%	Act%
96.90	100	100
98.90	63.60	63.00
61.00	43.50	43.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040911.D
Acq On : 4 Aug 2009 13:52
Operator : EM
Sample : P0902624-002 dup (1000ml)
Misc : Environmental H & E 99442
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040911.D\data.ms

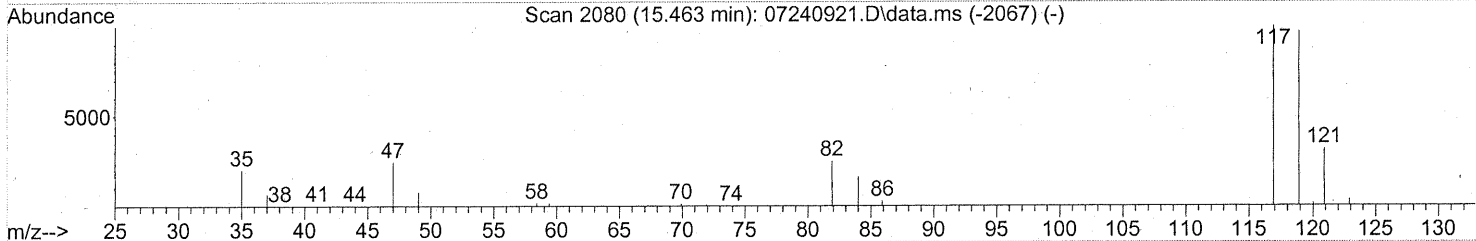
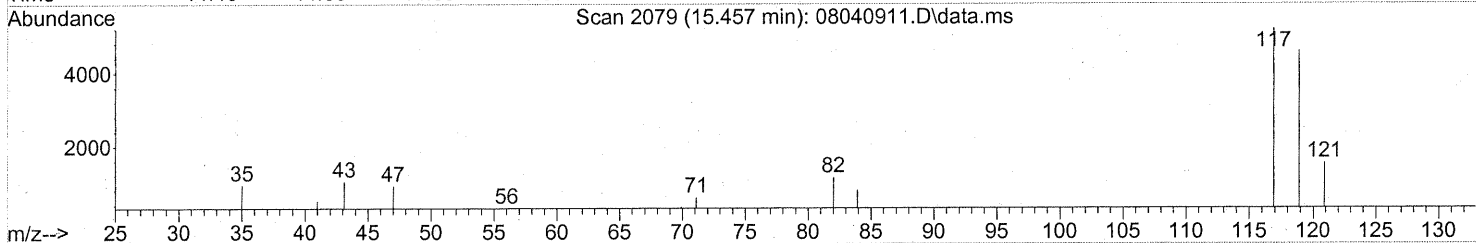
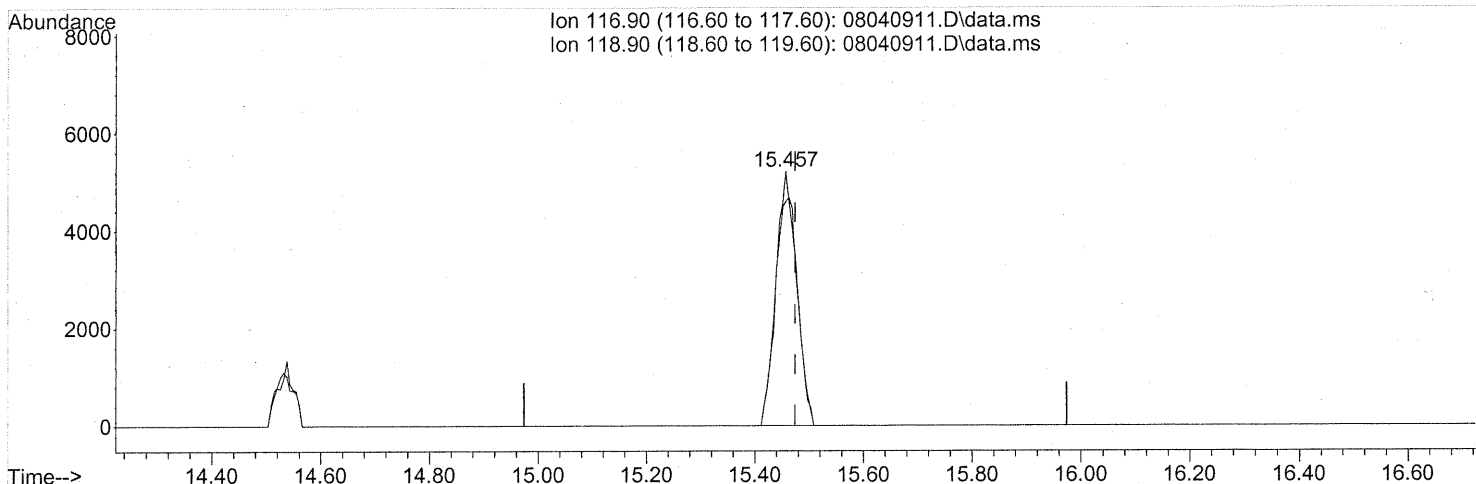
(41) Benzene (T)
15.234min (-0.011) 1.23ng
response 117218

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.49ng

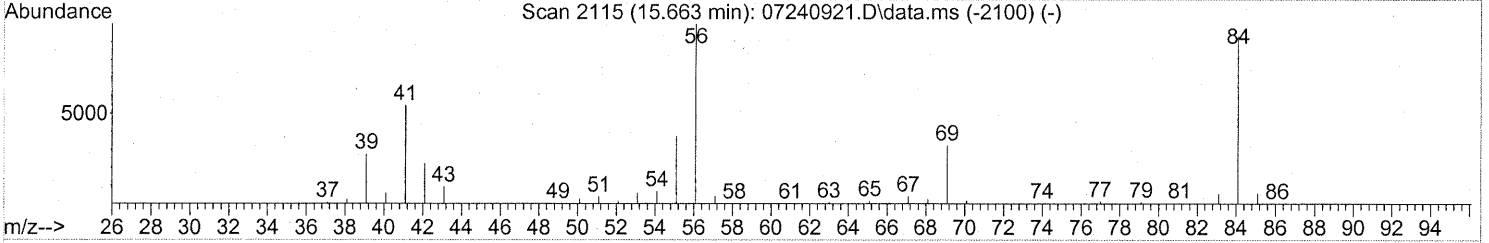
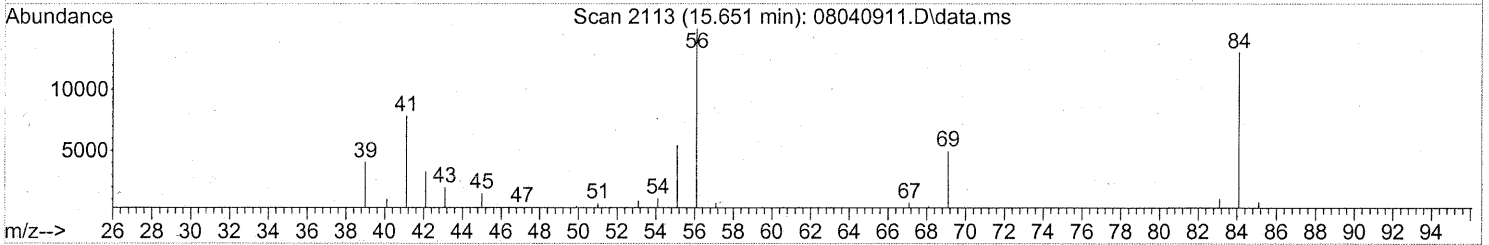
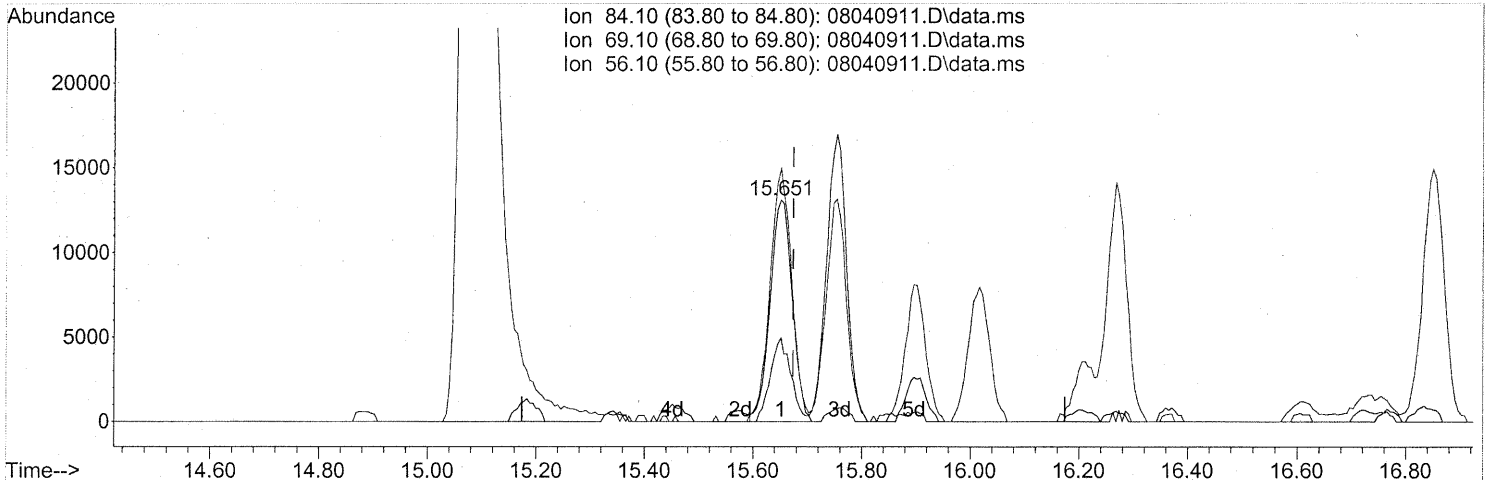
response 13804

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	97.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

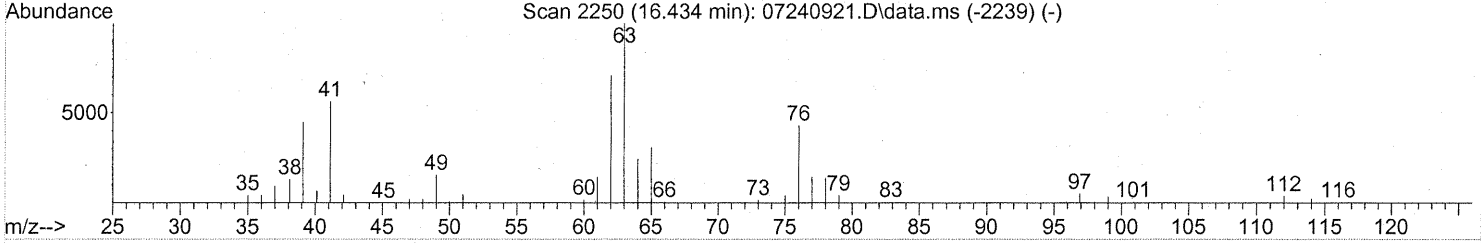
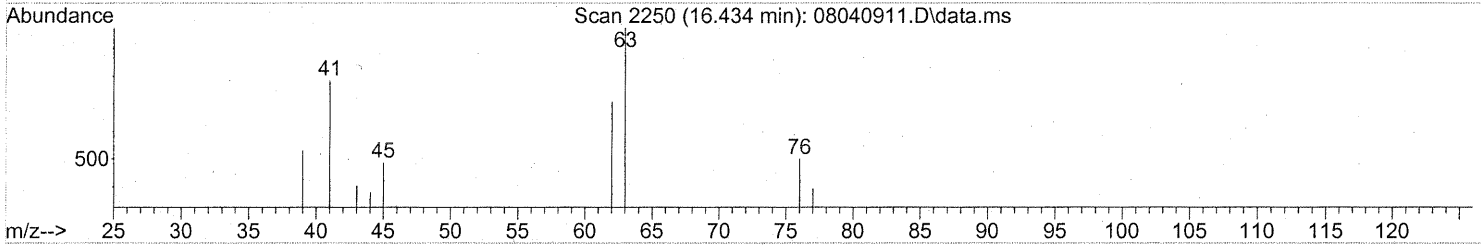
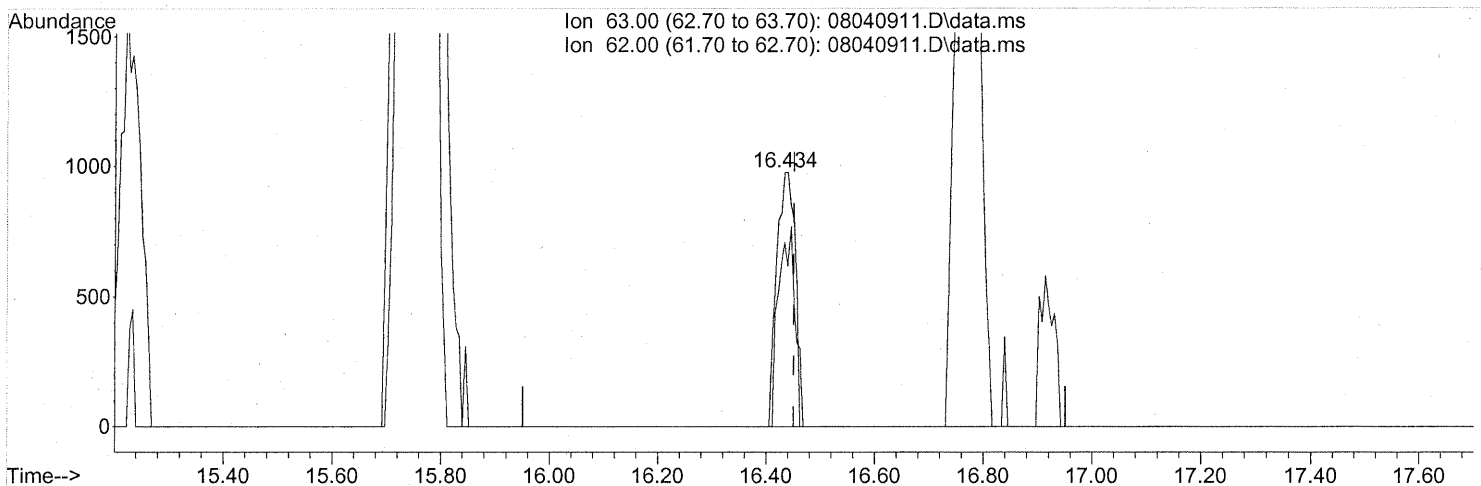
(43) Cyclohexane (T)
 15.651min (-0.023) 1.04ng
 response 37035

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	35.12
56.10	107.30	112.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.434min (-0.017) 0.11ng

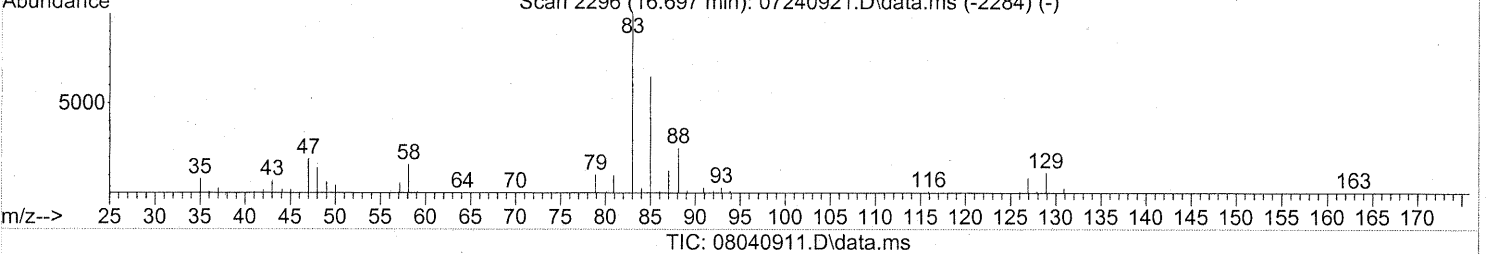
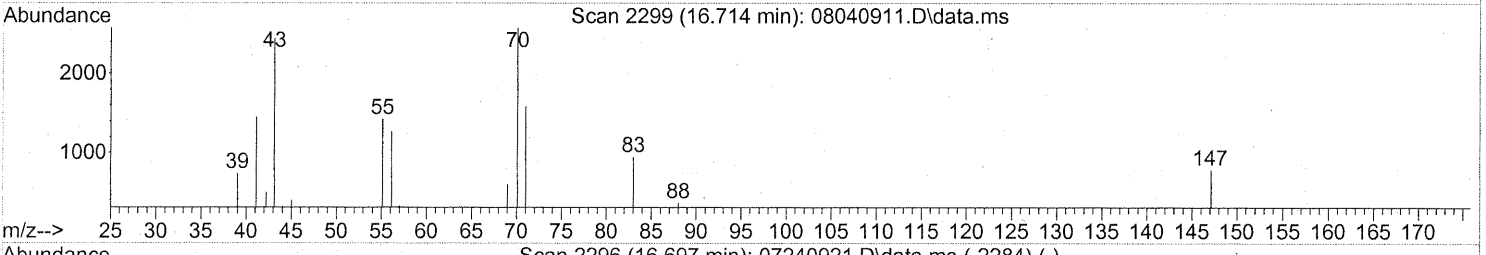
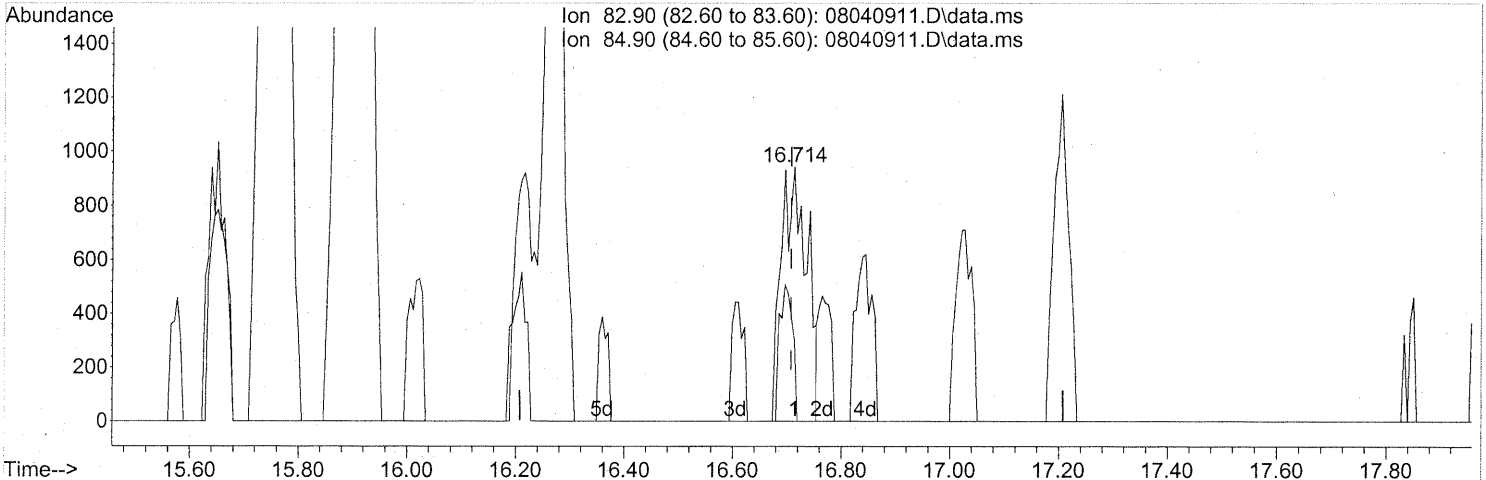
response 2273

Ion	Exp%	Act%
63.00	100	100
62.00	71.00	72.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:08 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.714min (+0.006) 0.11ng

response 3068

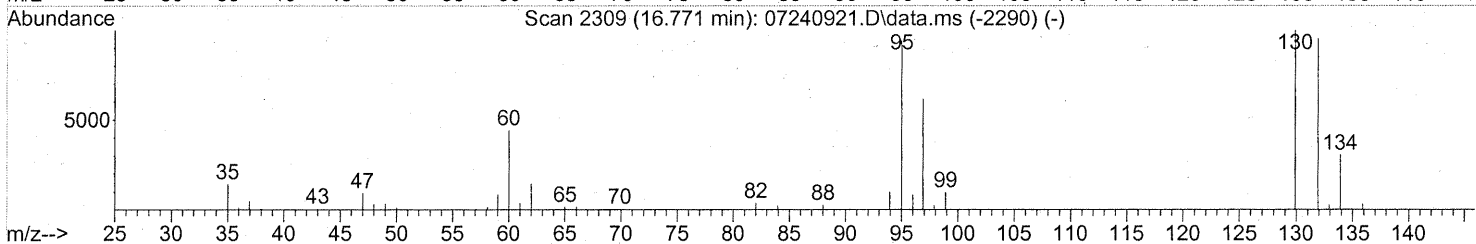
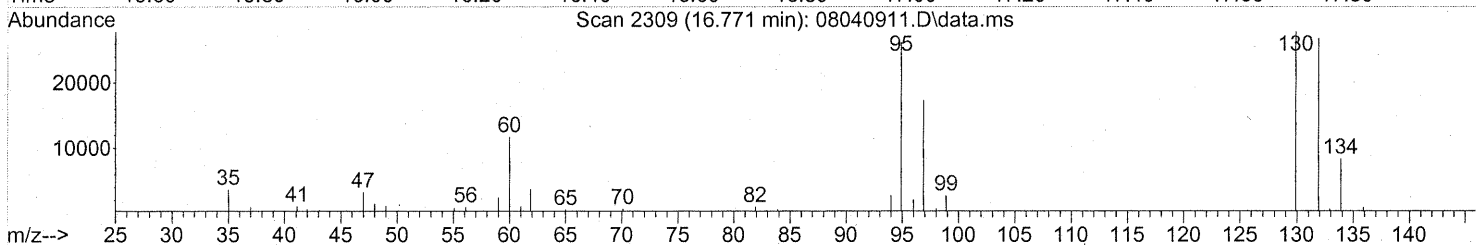
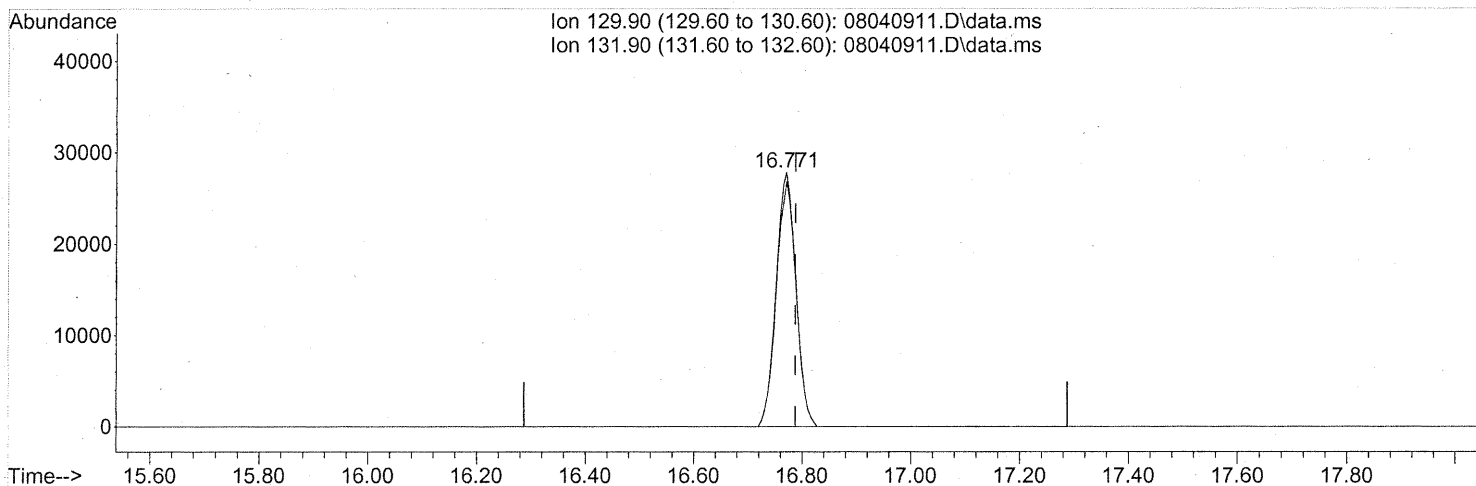
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	27.28#
0.00	0.00	0.00
0.00	0.00	0.00

FP
 em 8/6/09
 m 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

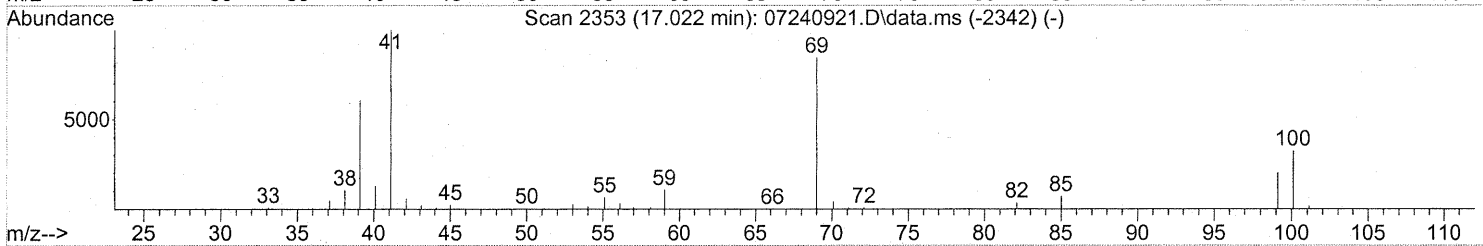
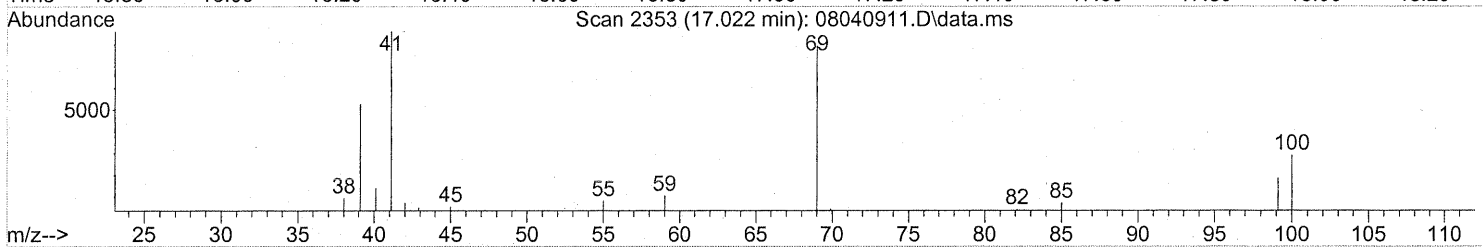
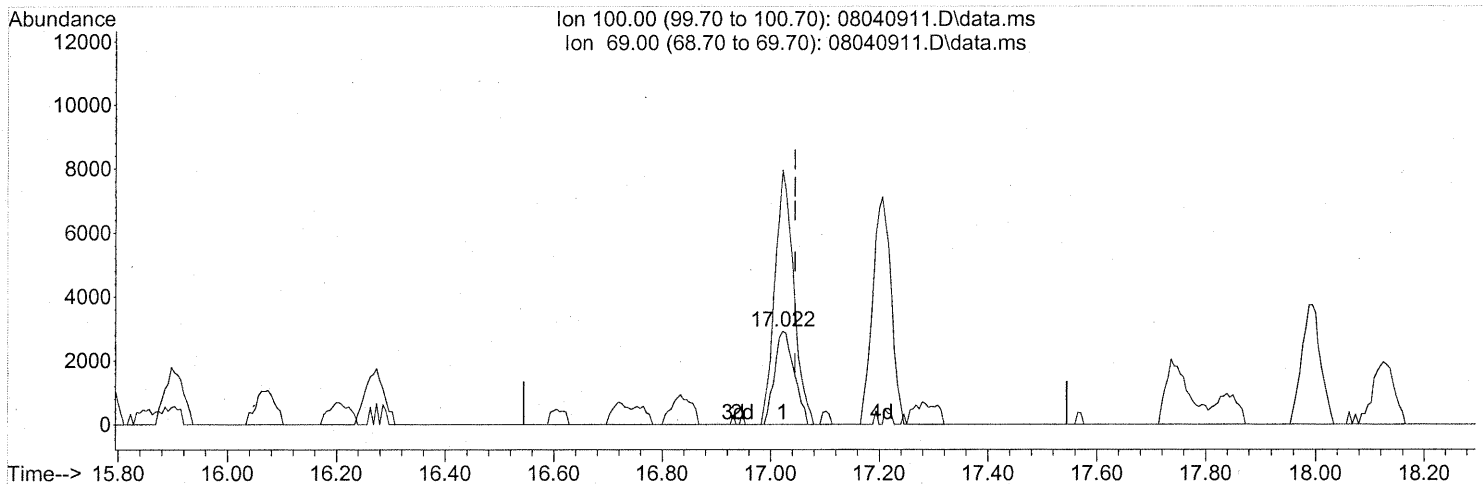
(47) Trichloroethene (T)
 16.771min (-0.017) 2.89ng
 response 70494

Ion	Exp%	Act%
129.90	100	100
131.90	95.60	96.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(50) Methyl Methacrylate (T)

17.022min (-0.023) 0.81ng

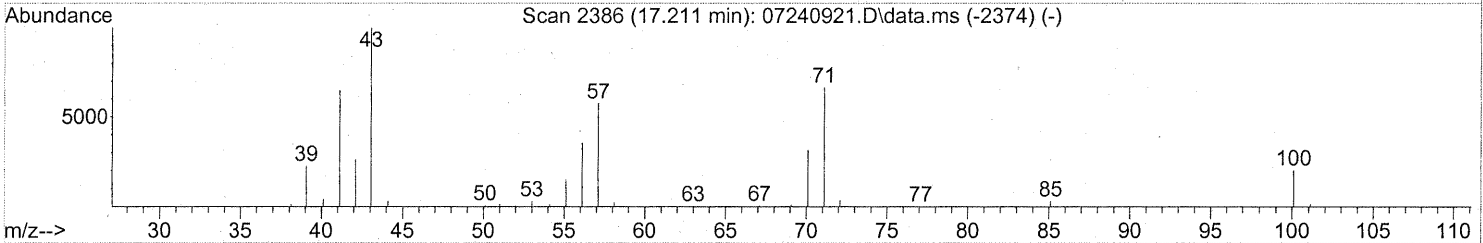
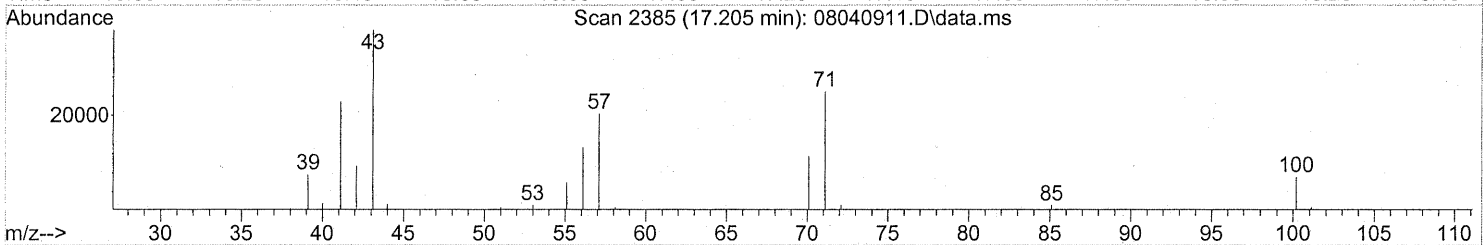
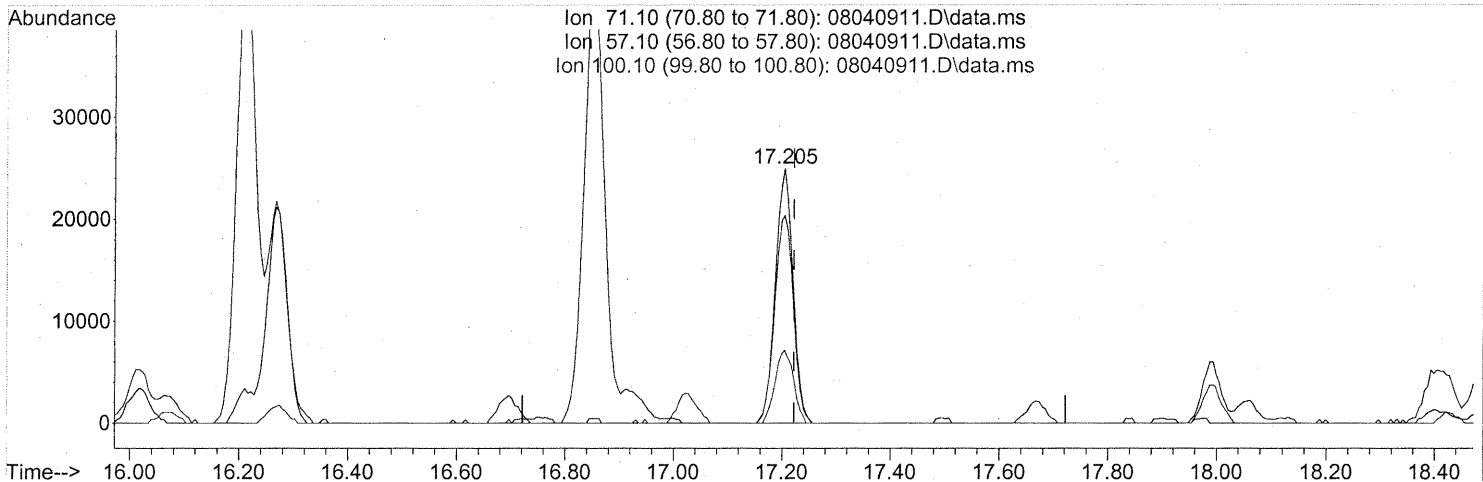
response 7272

Ion	Exp%	Act%
100.00	100	100
69.00	261.10	263.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

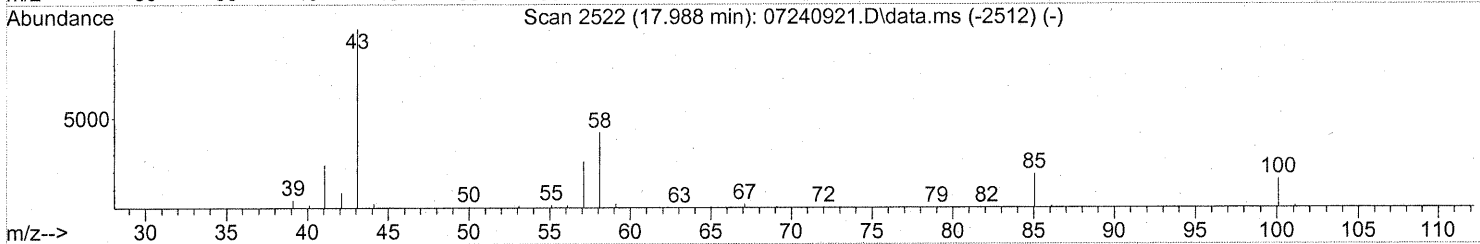
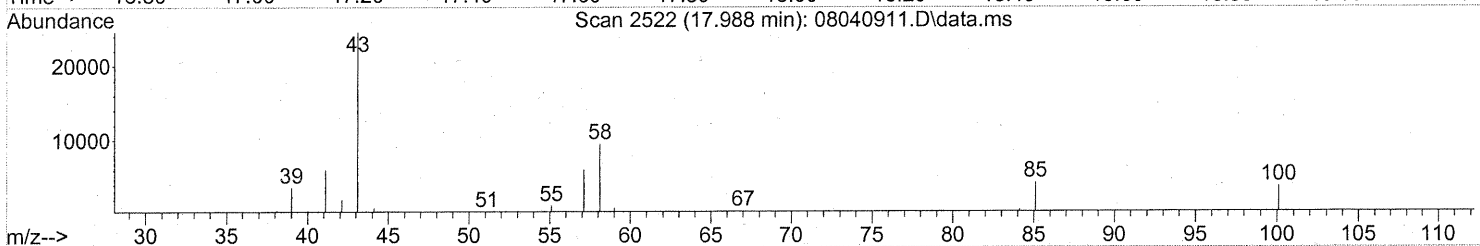
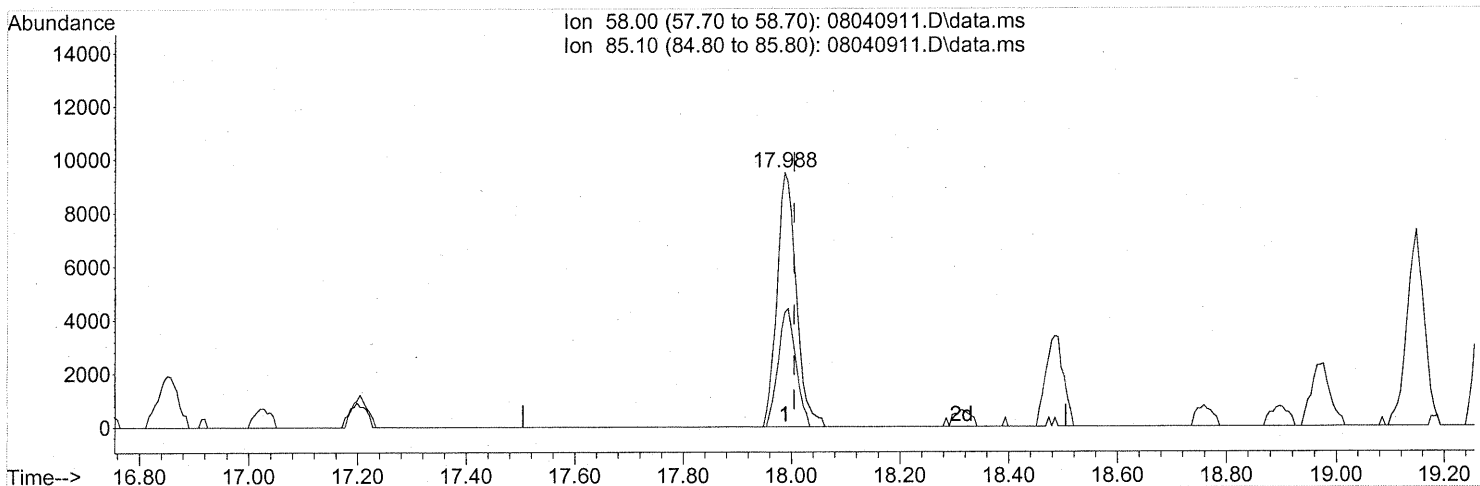
(51) n-Heptane (T)
 17.205min (-0.017) 2.43ng
 response 56125

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	86.33
100.10	30.70	29.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040911.D
Acq On : 4 Aug 2009 13:52
Operator : EM
Sample : P0902624-002 dup (1000ml)
Misc : Environmental H & E 99442
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040911.D\data.ms

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

17.988min (-0.017) 1.29ng

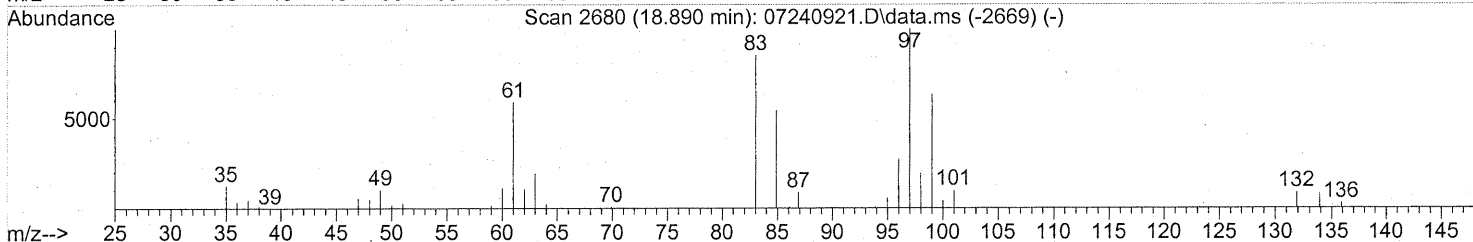
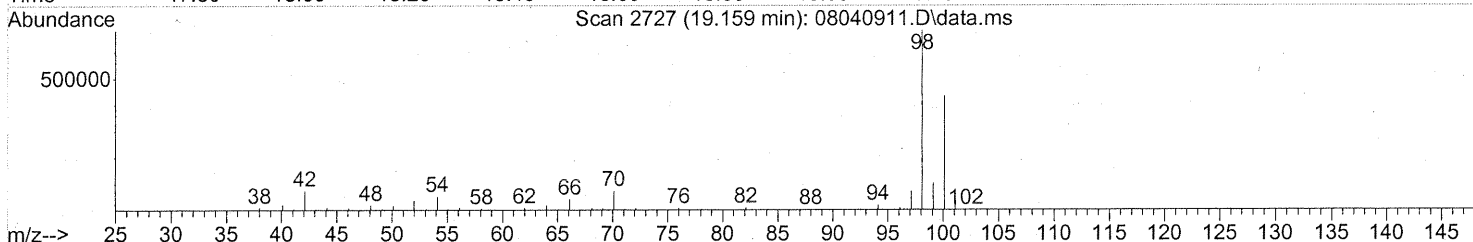
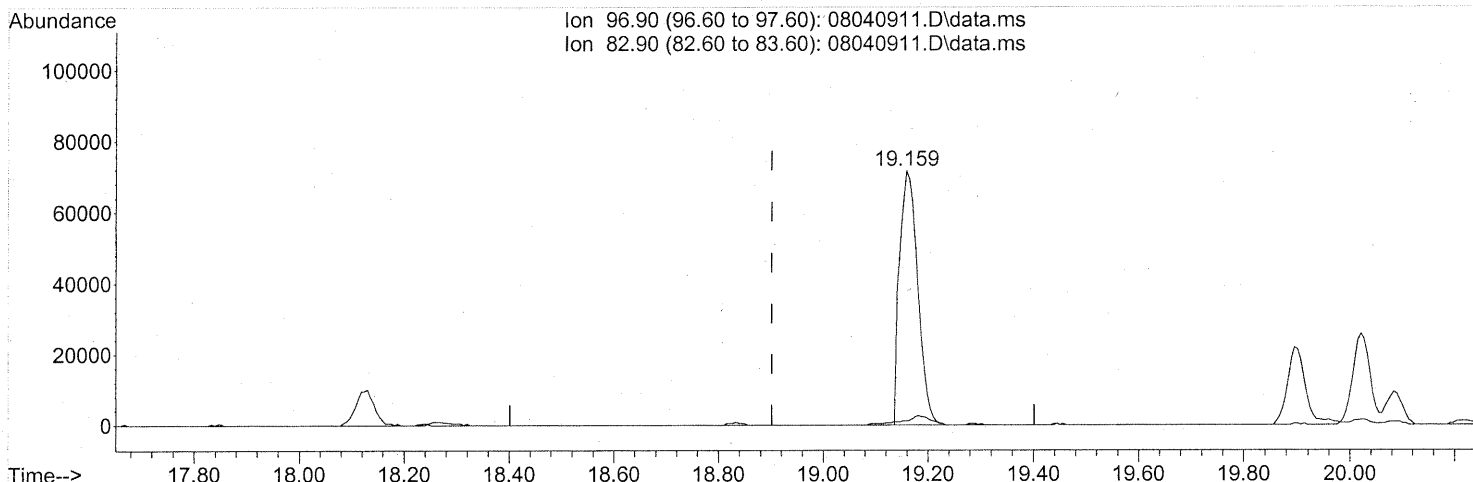
response 23371

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	42.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:08 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

19.159min (+0.257) 8.55ng

response 171523

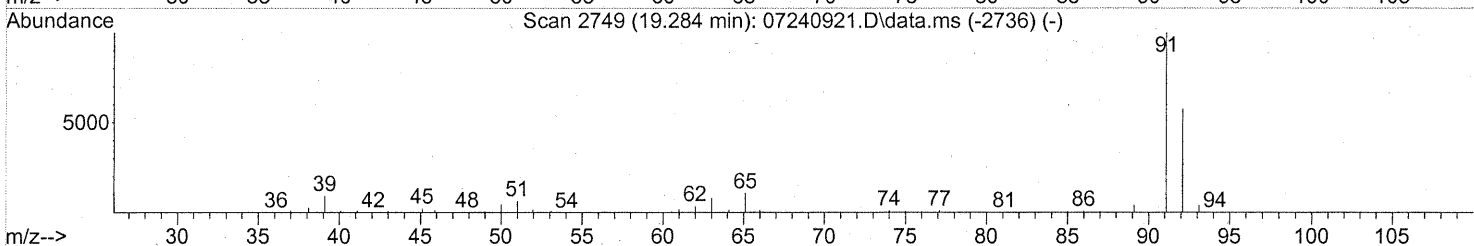
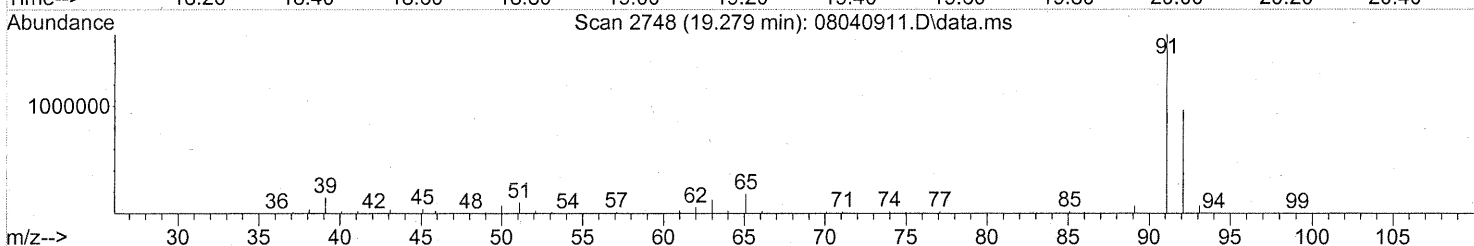
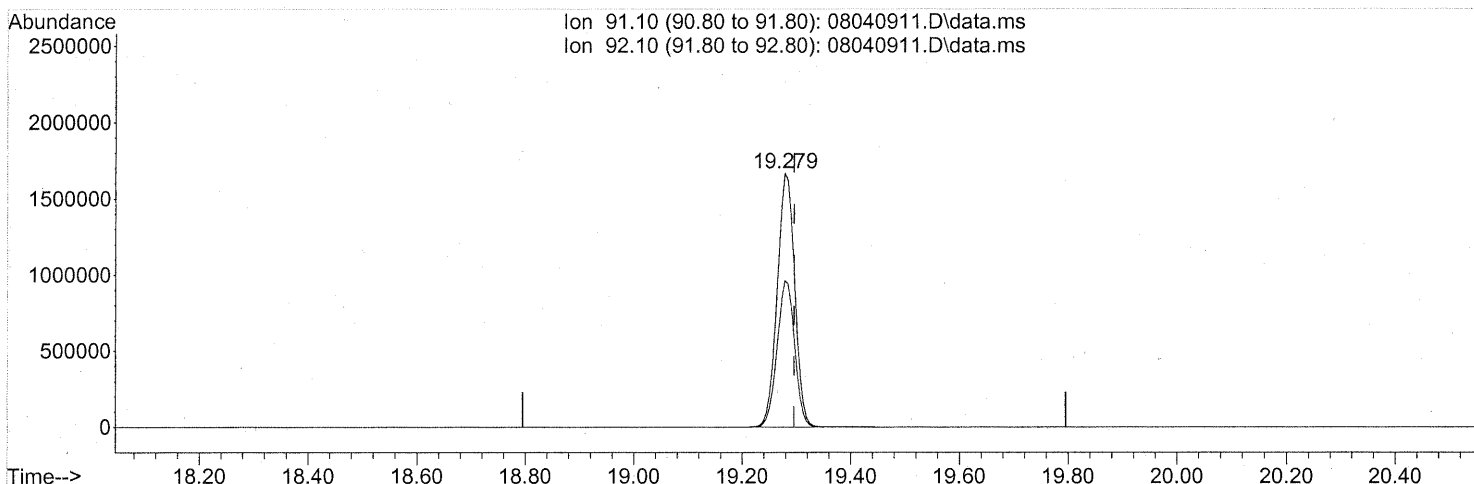
Ion	Exp%	Act%
96.90	100	100
82.90	85.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
um 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(58) Toluene (T)

19.279min (-0.017) 35.04ng

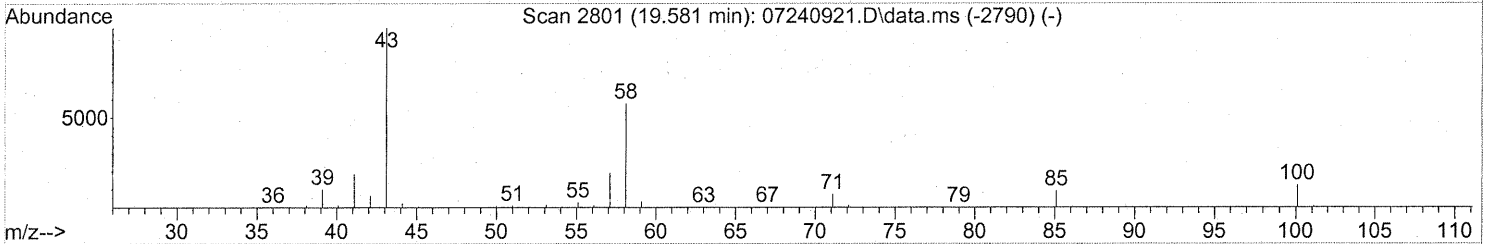
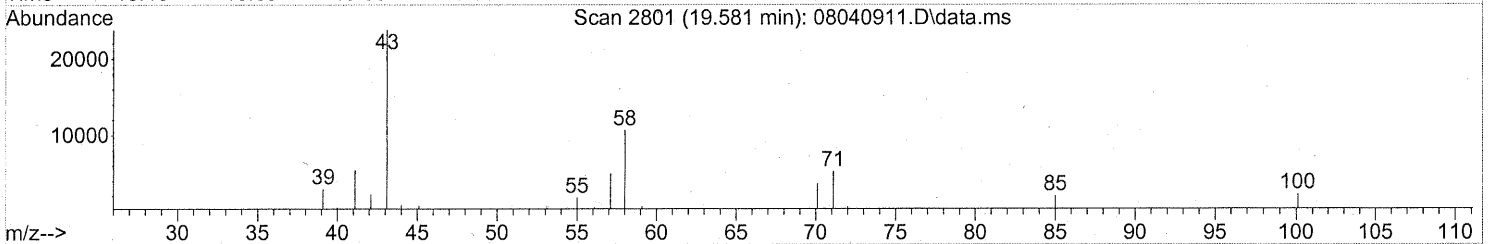
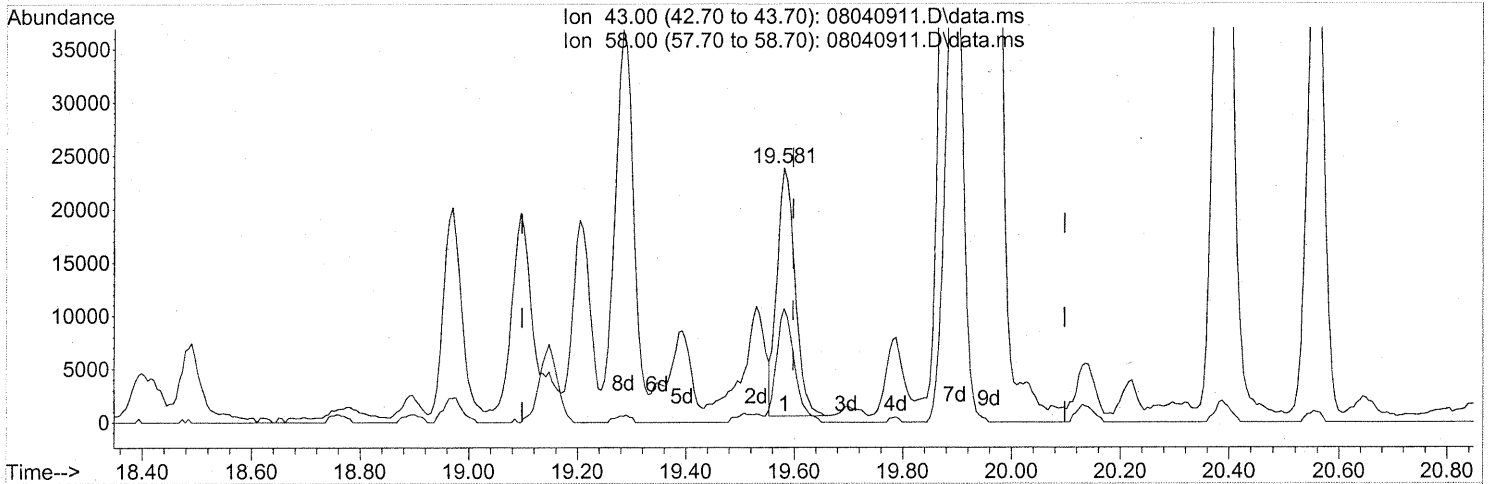
response 3722355

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

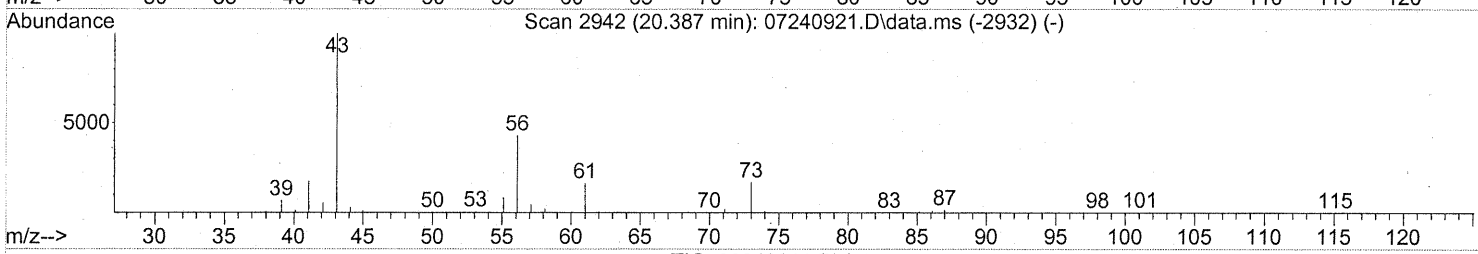
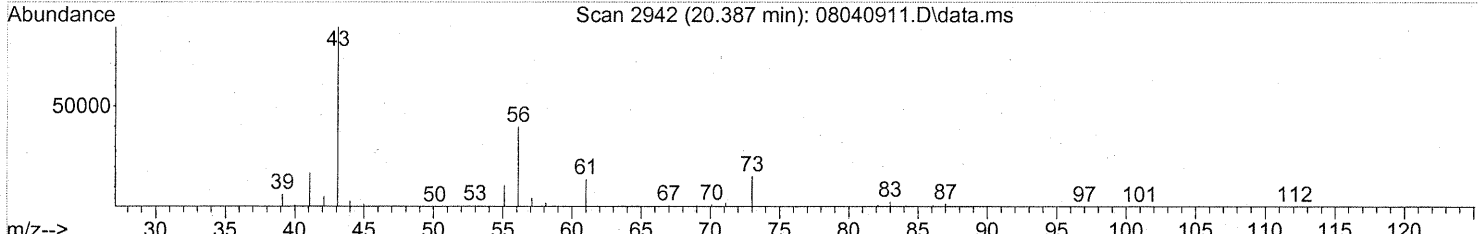
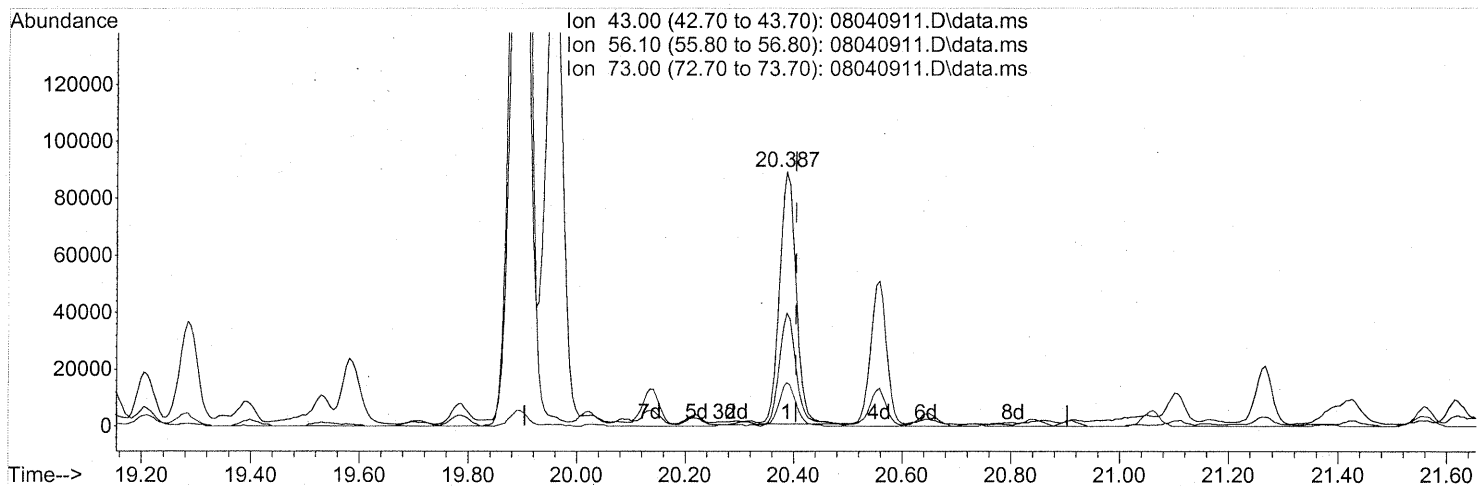
(59) 2-Hexanone (T)
 19.581min (-0.017) 1.17ng
 response 53489

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	46.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

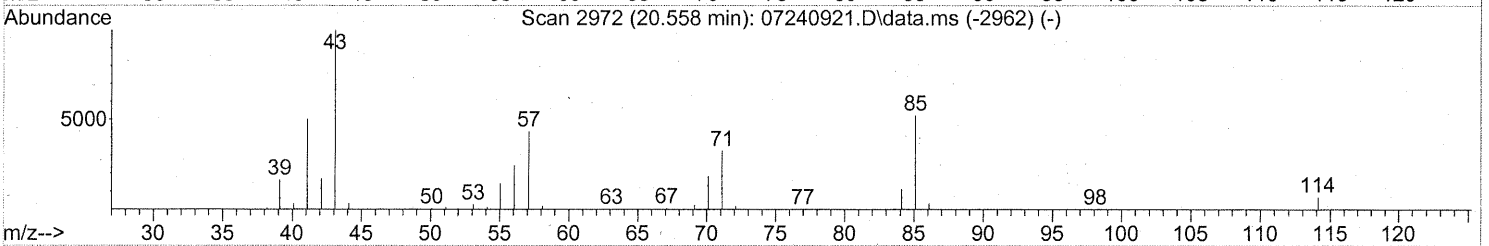
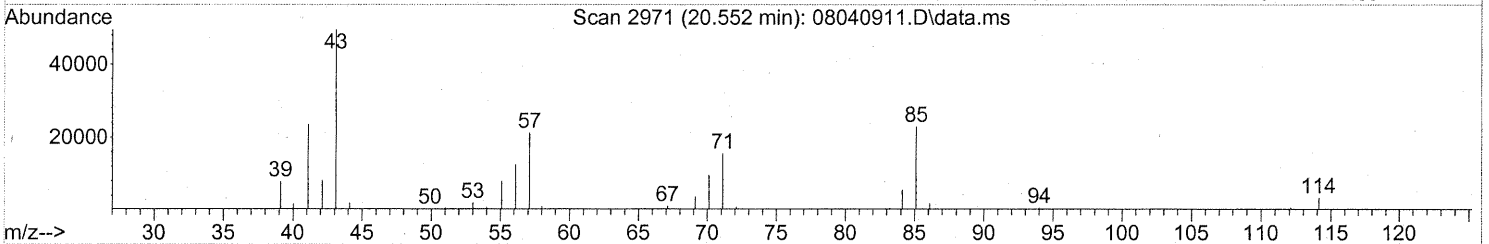
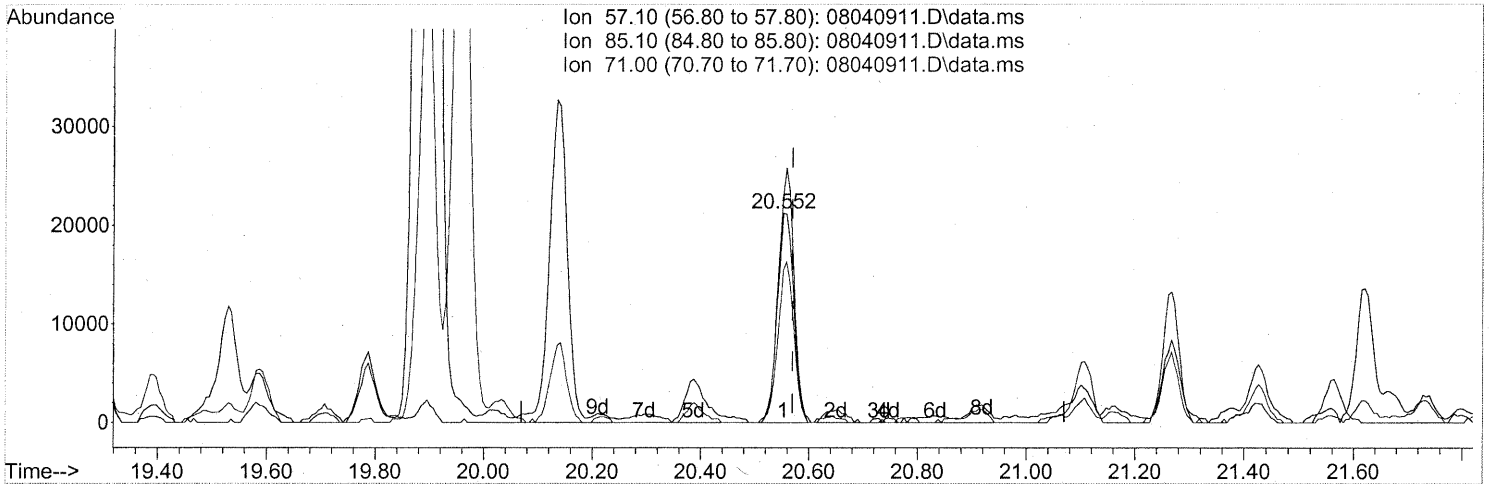
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 3.71ng
 response 188504

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	45.23
73.00	16.90	17.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

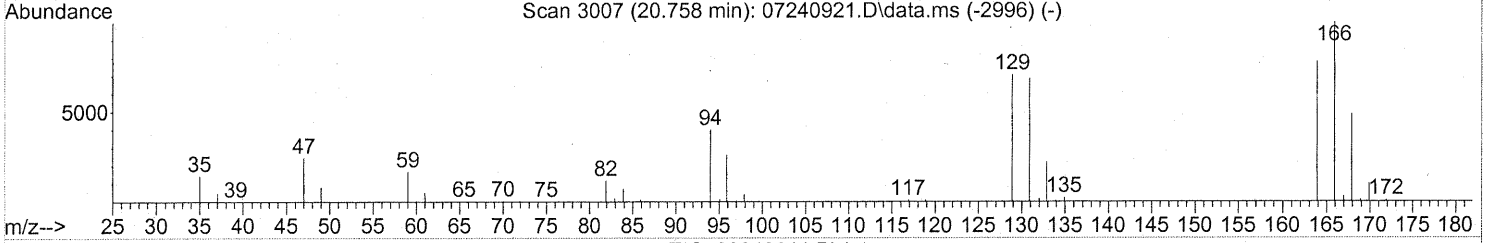
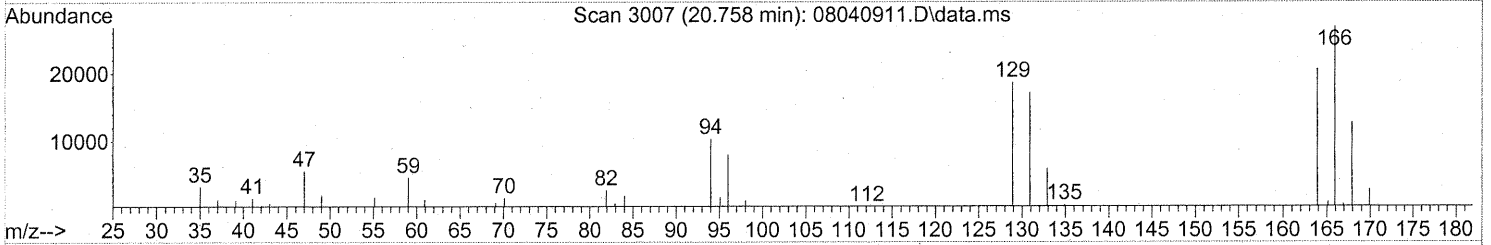
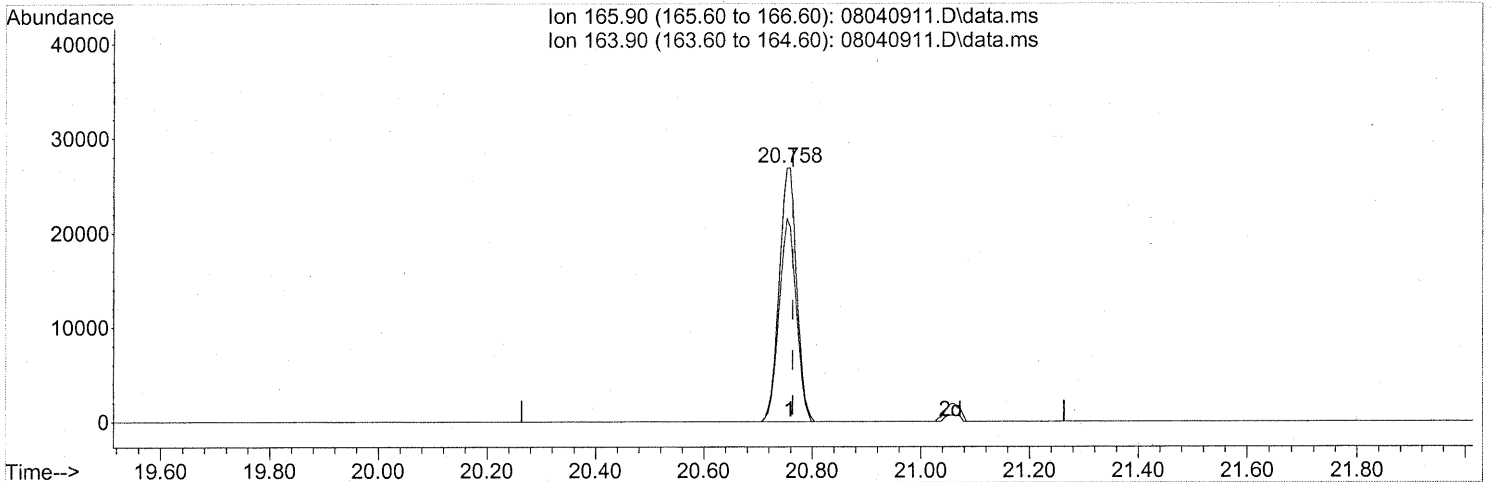
(63) n-Octane (T)
 20.552min (-0.017) 2.16ng
 response 44854

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	114.85
71.00	75.10	73.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(64) Tetrachloroethene (T)

20.758min (-0.006) 2.13ng

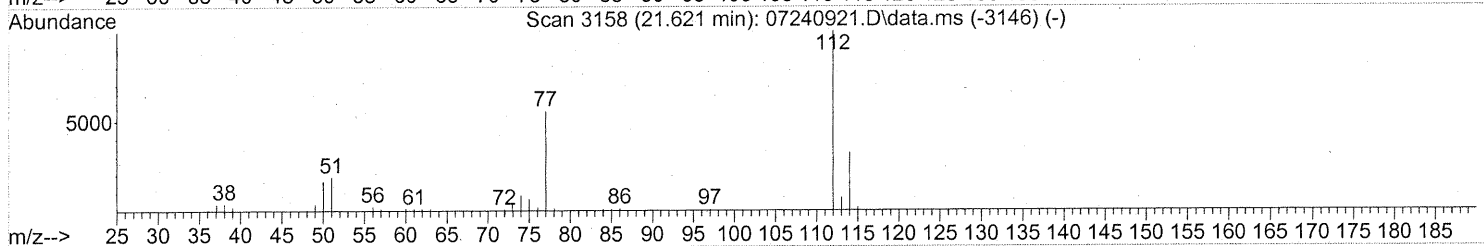
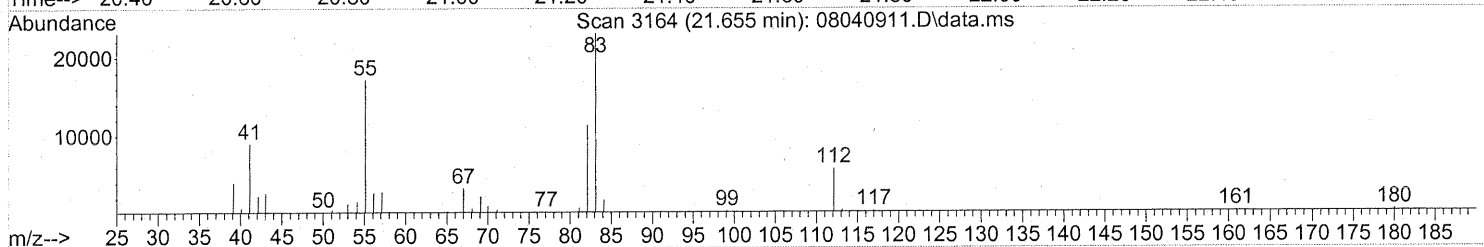
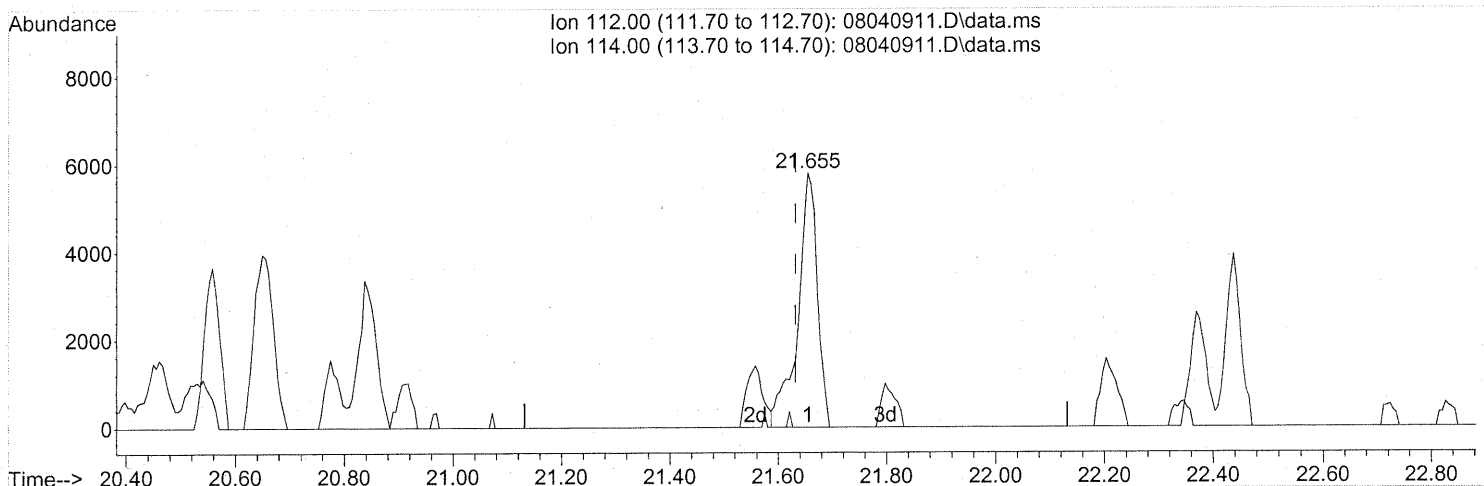
response 59961

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	78.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 14:30:08 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.655min (+0.023) 0.22ng
 response 14483

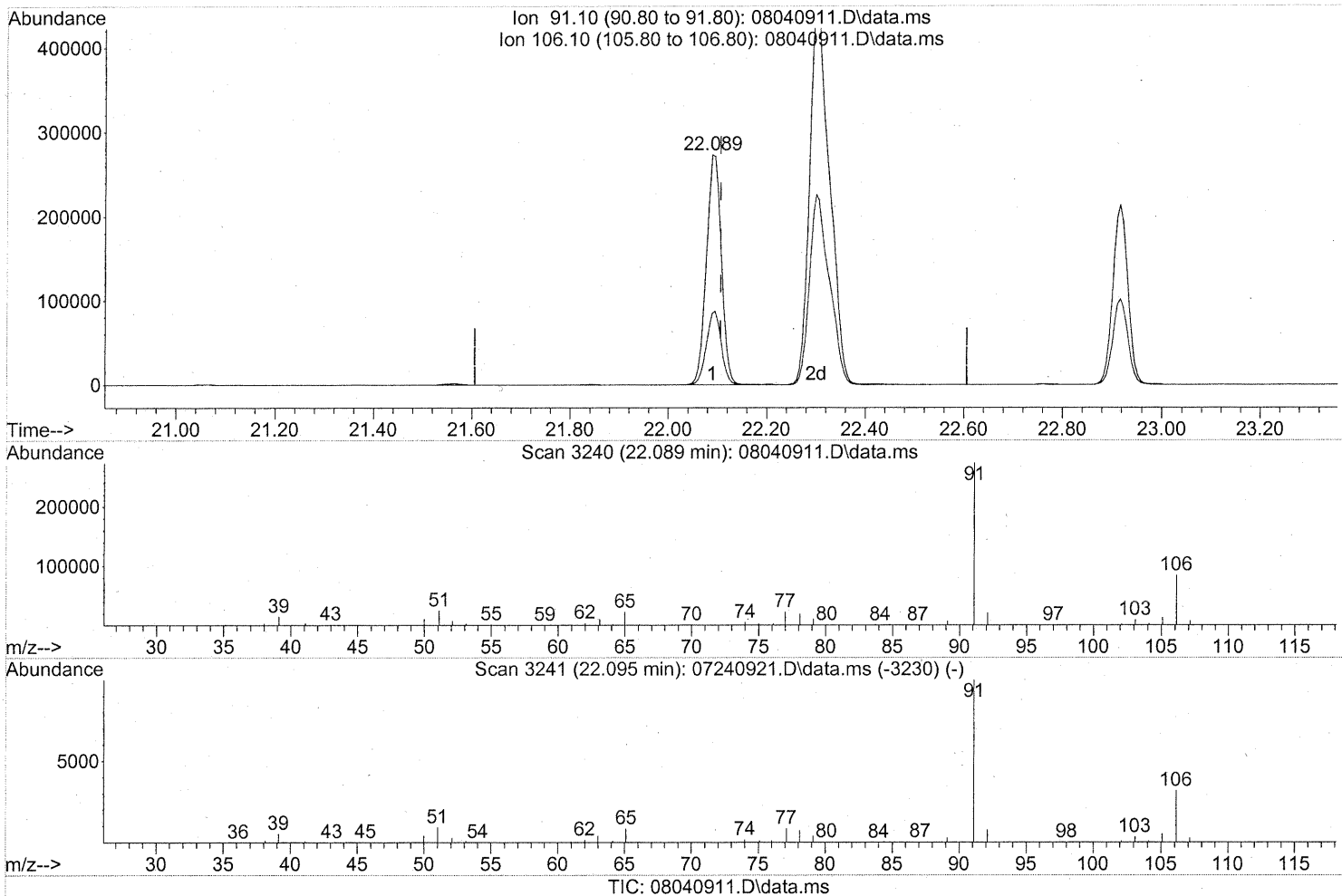
Ion	Exp%	Act%
112.00	100	100
114.00	32.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
em 8/6/09
LM 8/10/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

22.089min (-0.017) 4.94ng

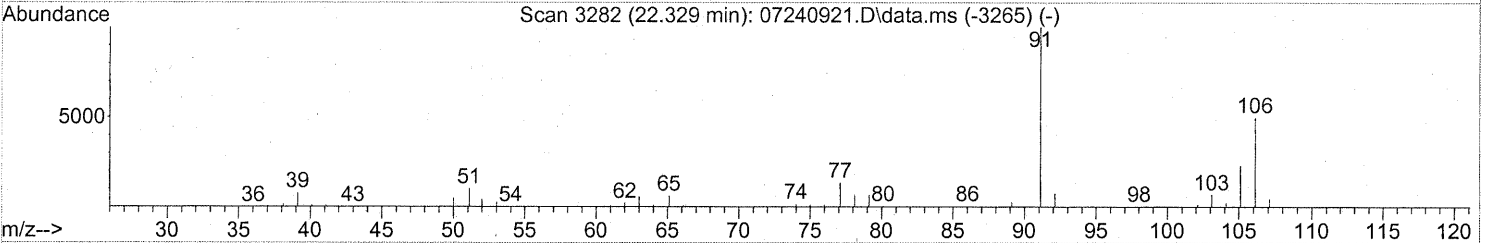
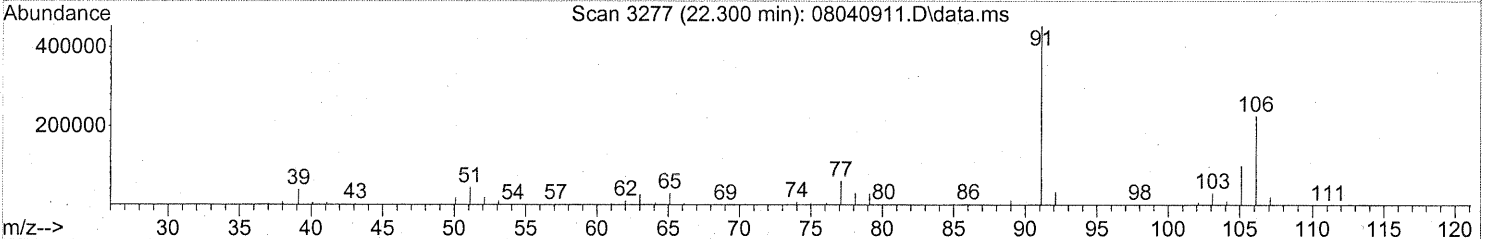
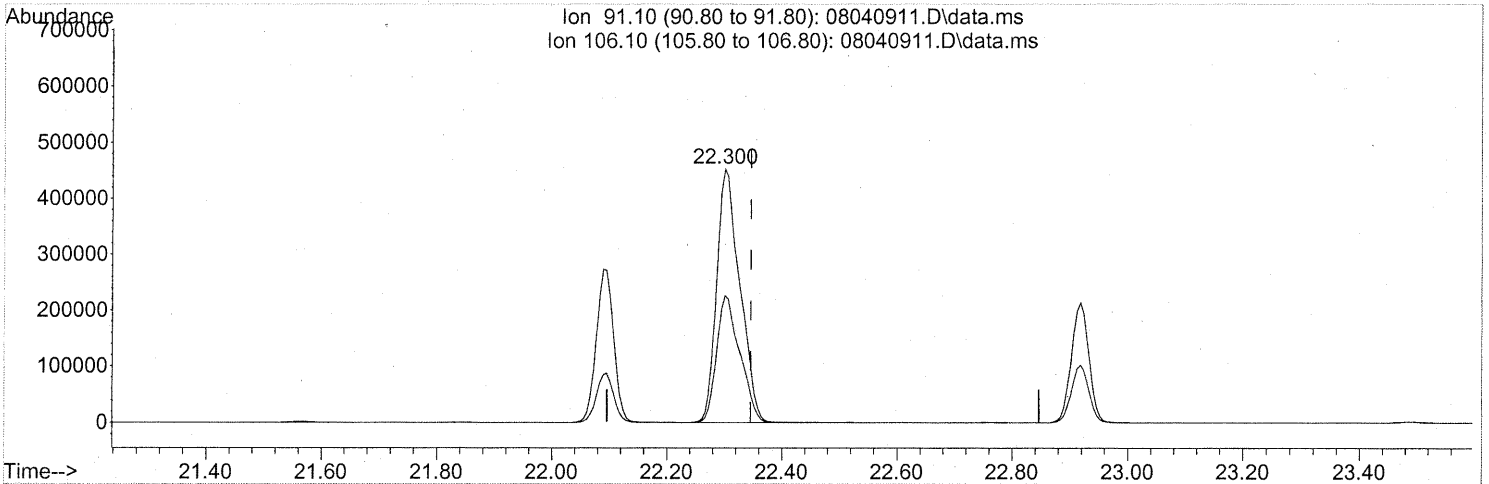
response 570768

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	31.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

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

22.300min (-0.046) 13.27ng

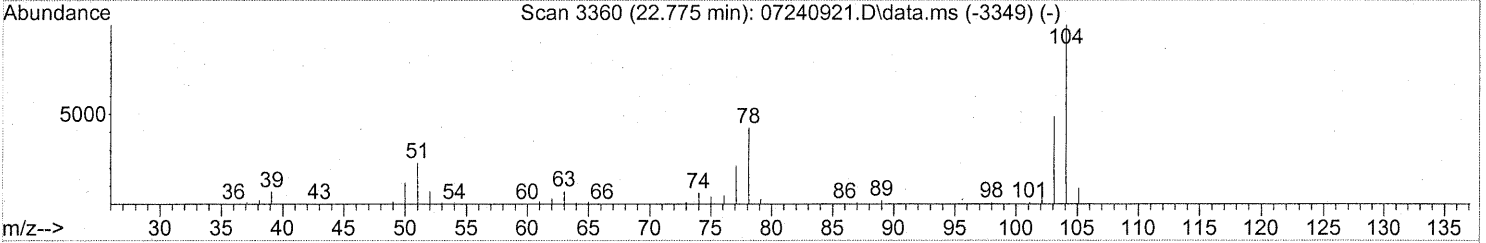
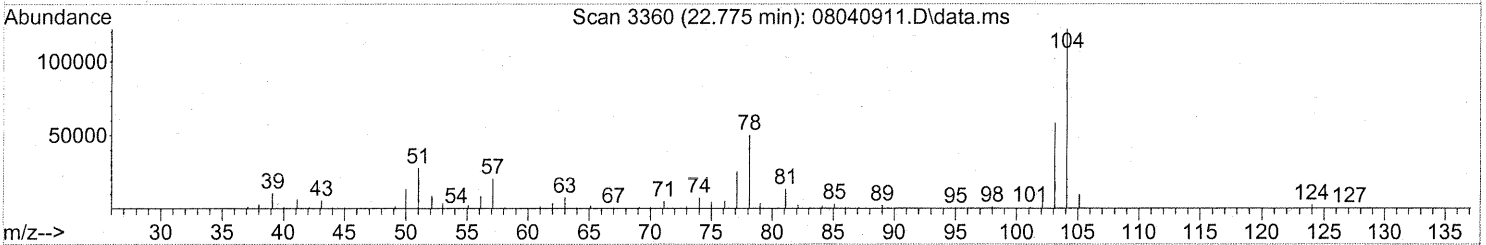
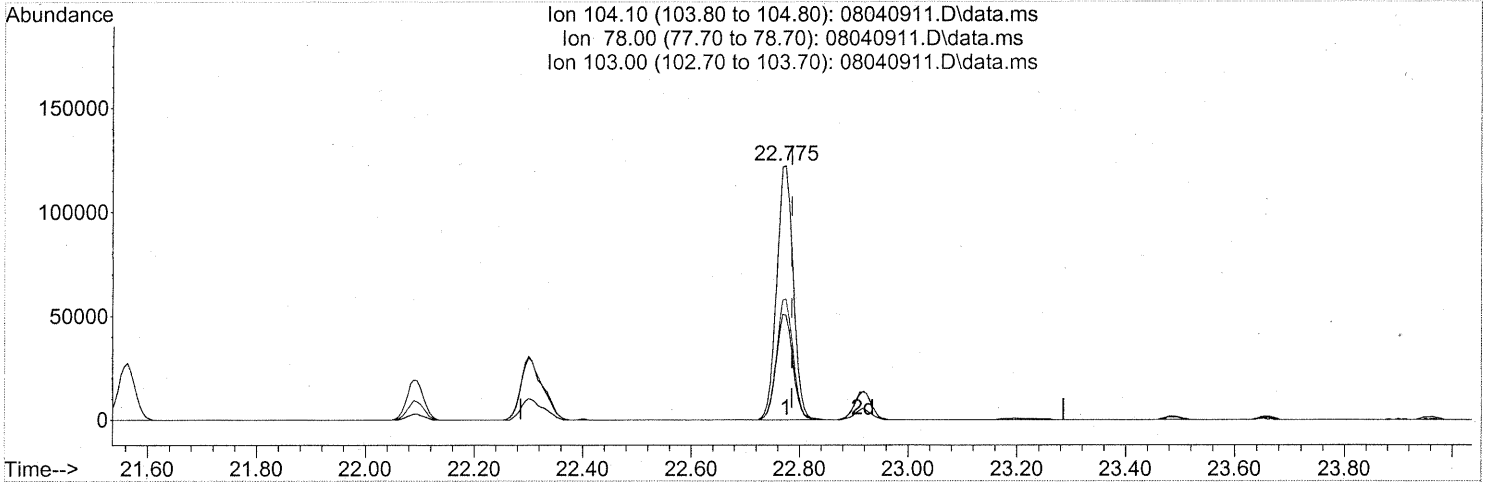
response 1264189

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

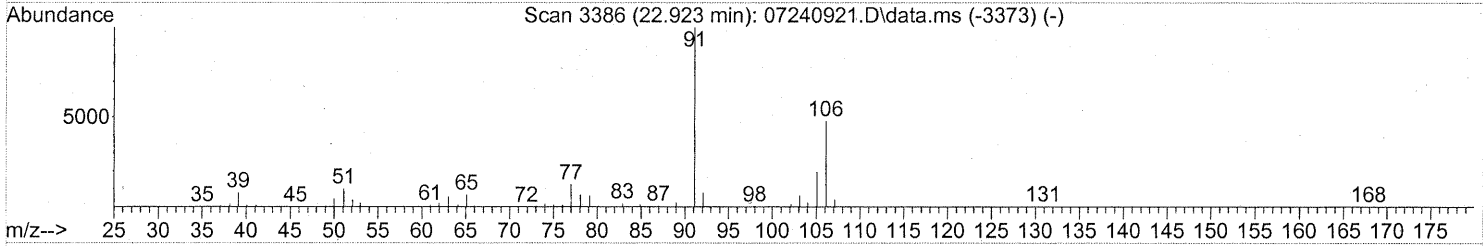
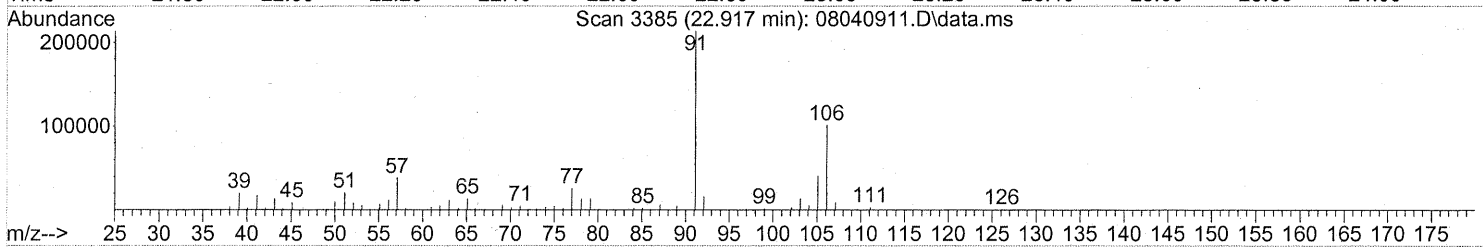
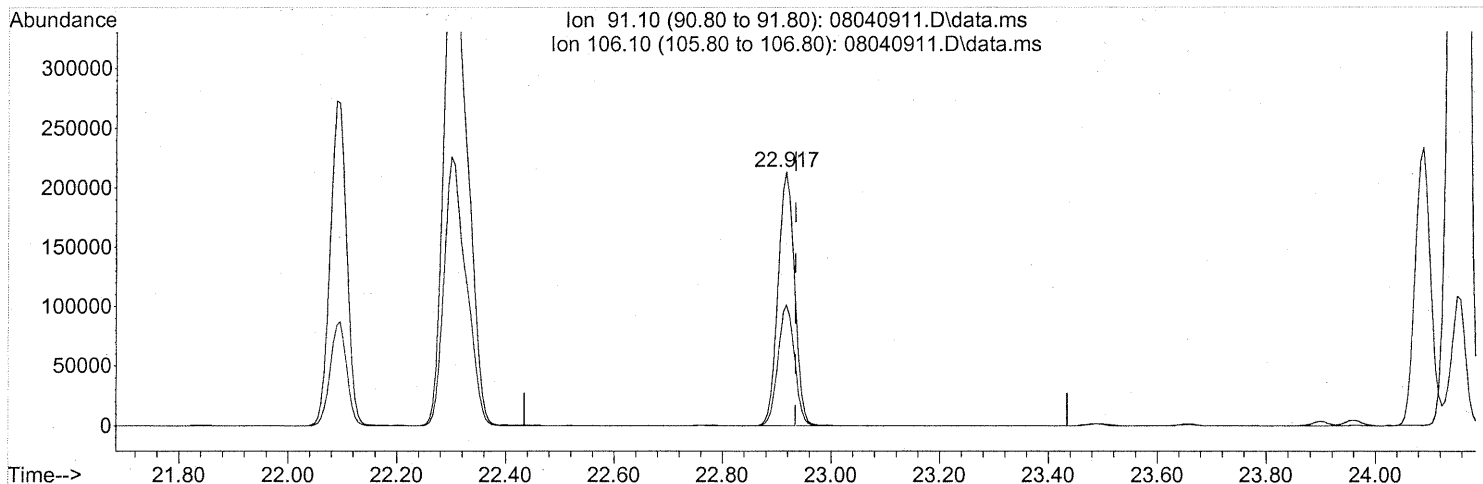
(69) Styrene (T)
 22.775min (-0.011) 3.67ng
 response 257901

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.51
103.00	48.70	47.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.917min (-0.017) 4.72ng

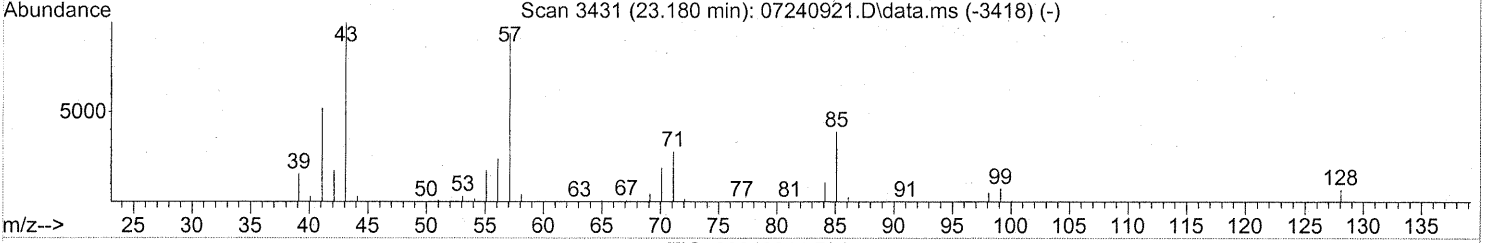
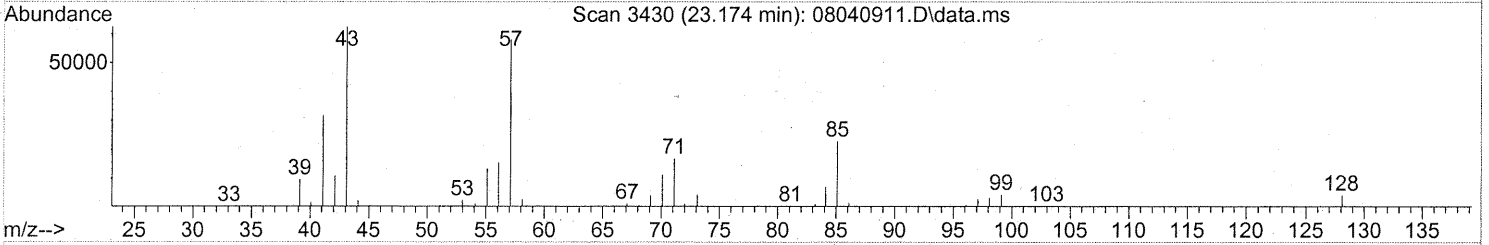
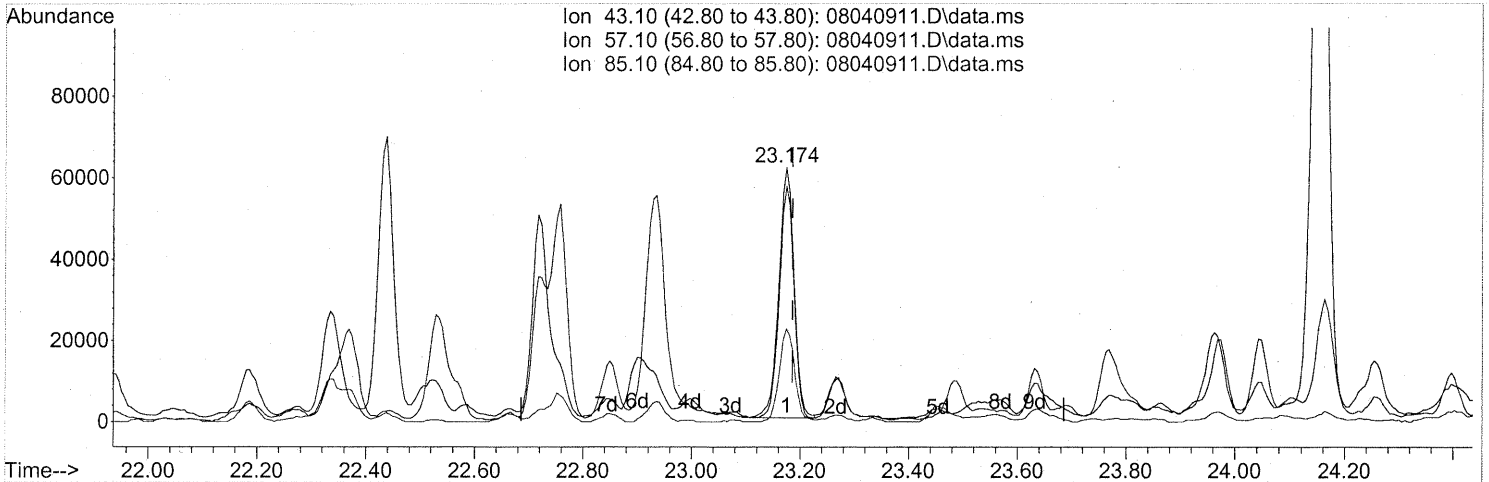
response 448246

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	47.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

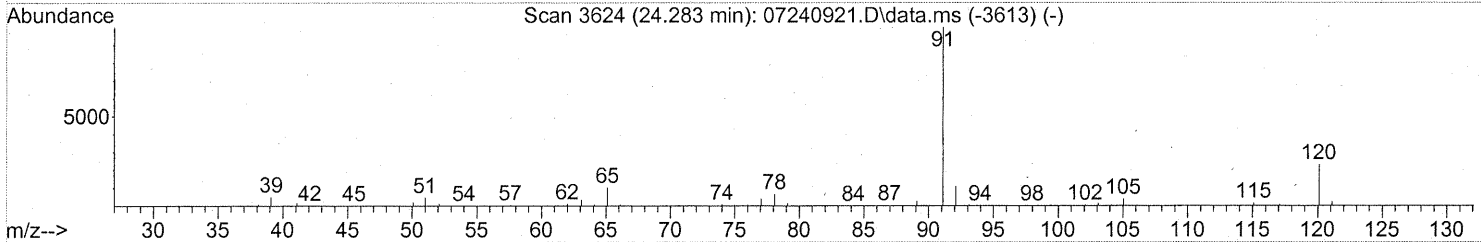
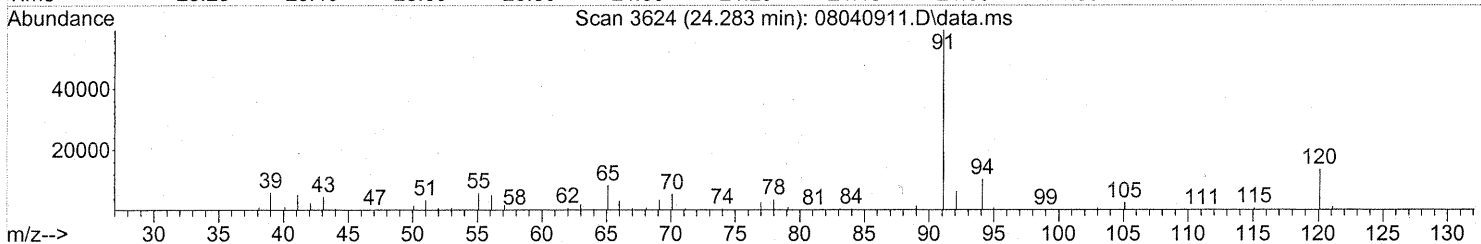
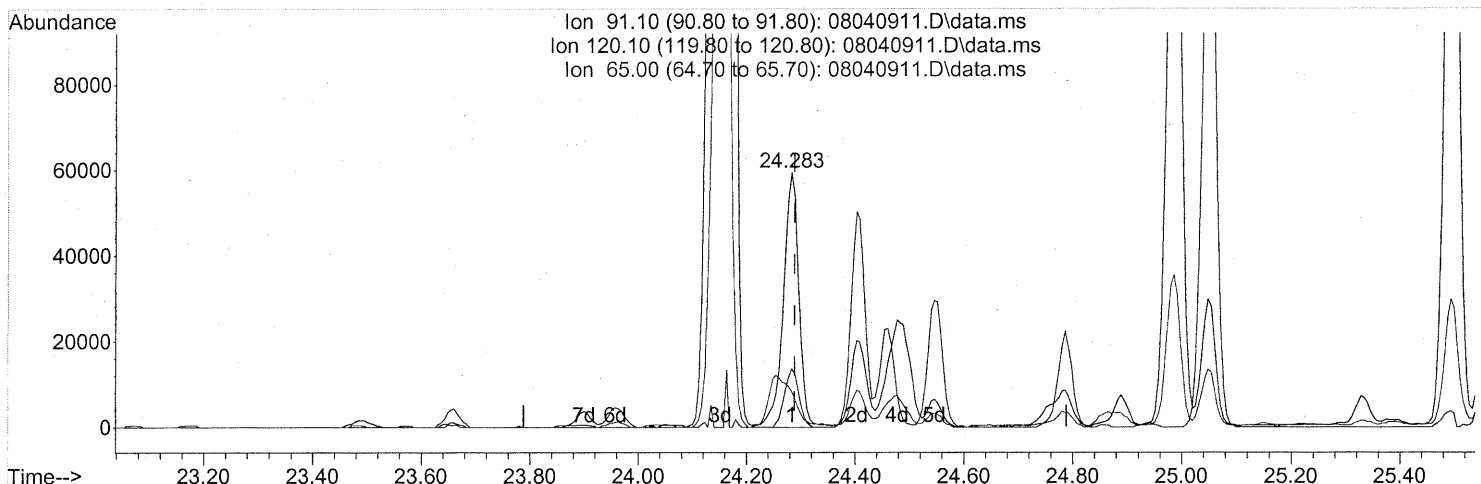
(71) n-Nonane (T)
 23.174min (-0.011) 2.58ng
 response 119716

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	89.10
85.10	38.80	37.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.006) 0.77ng

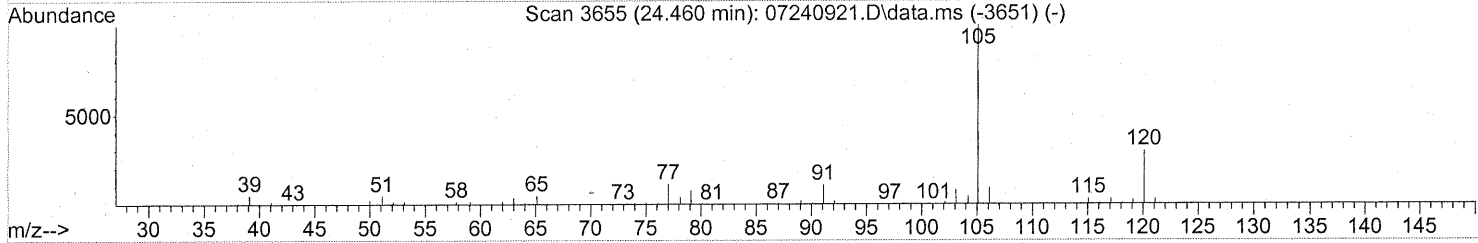
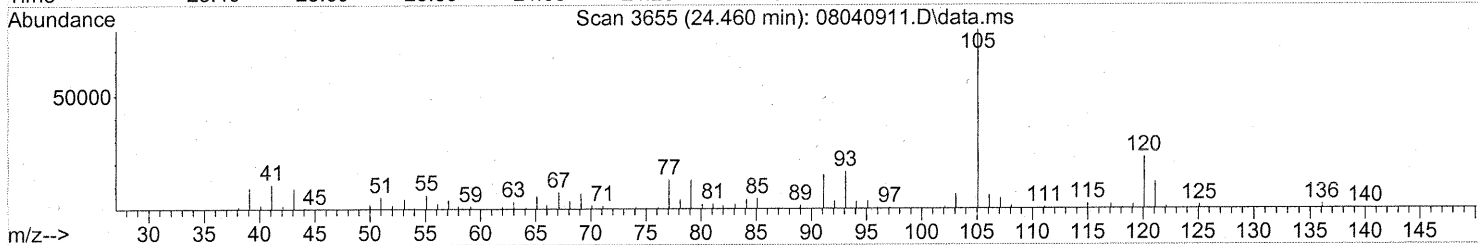
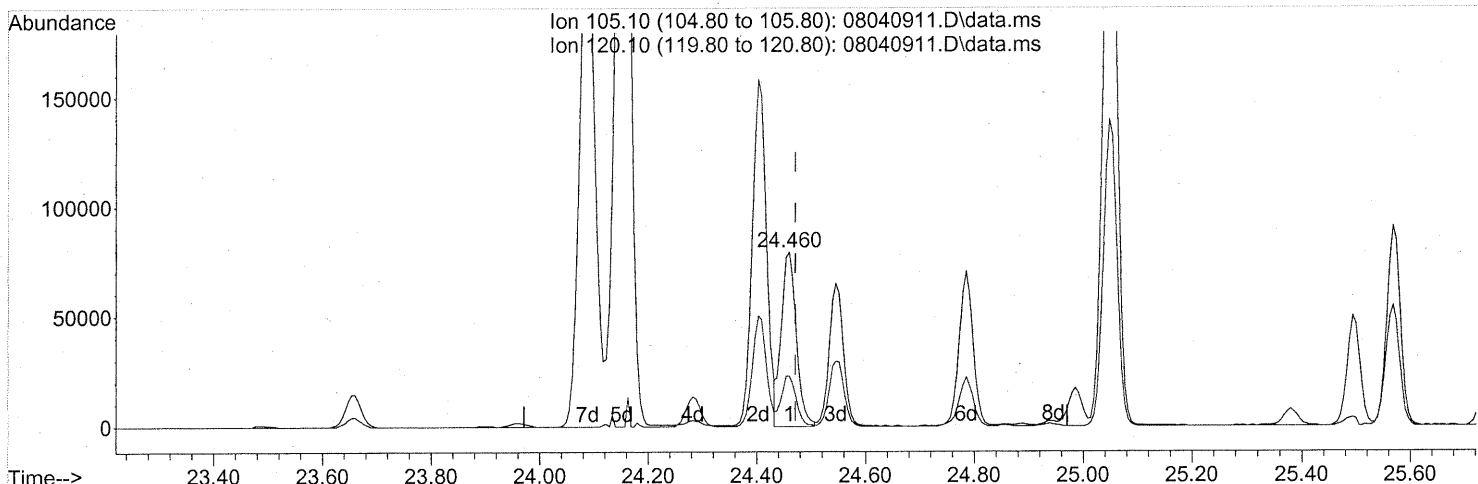
response 117519

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	21.11
65.00	10.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

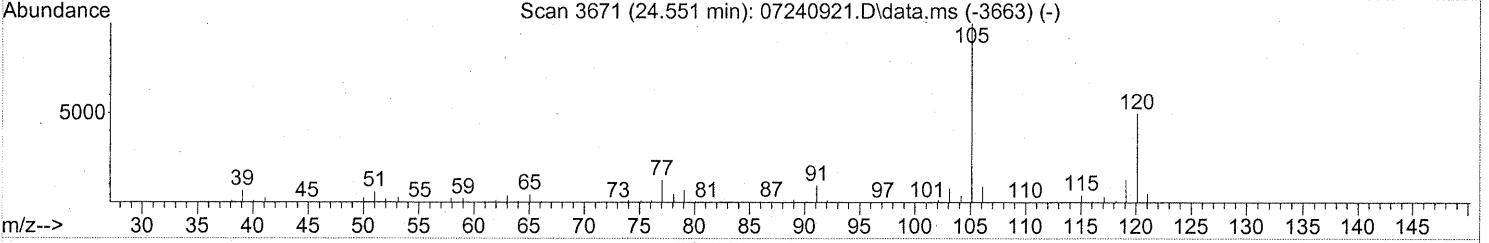
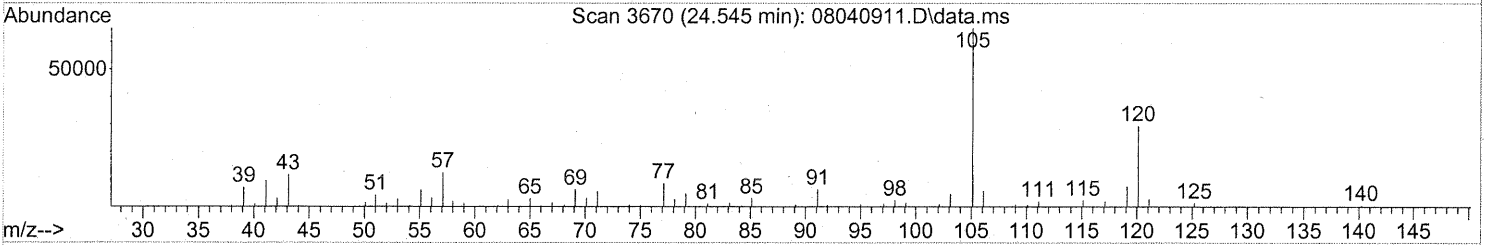
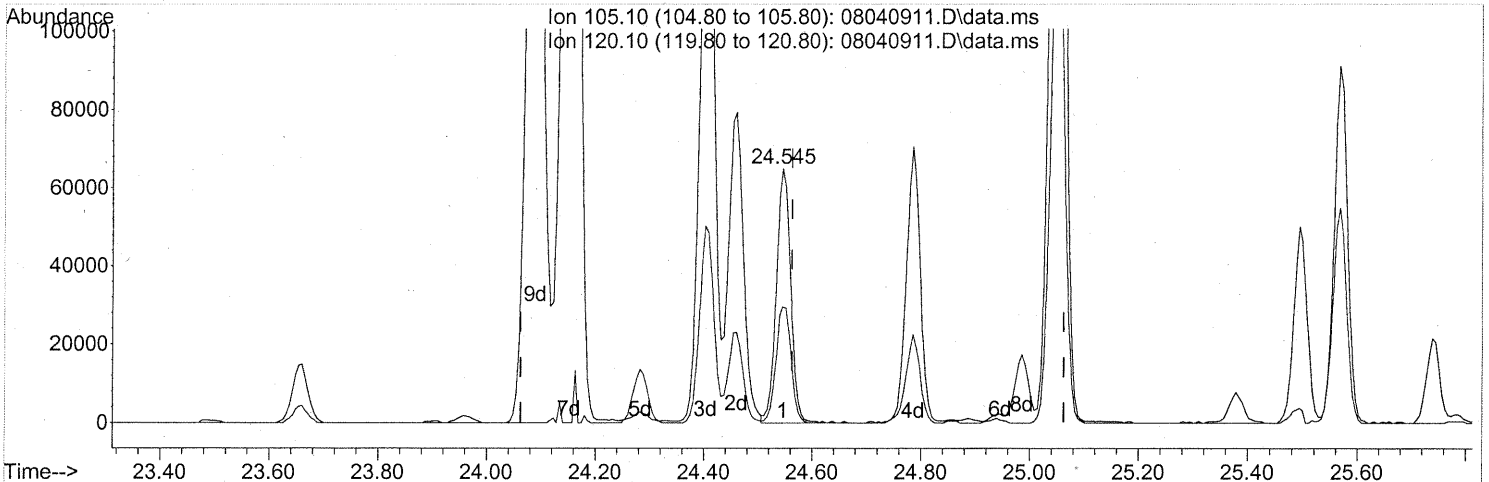
(78) 4-Ethyltoluene (T)
 24.460min (-0.011) 1.27ng
 response 152267

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	28.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

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

24.545min (-0.017) 1.19ng

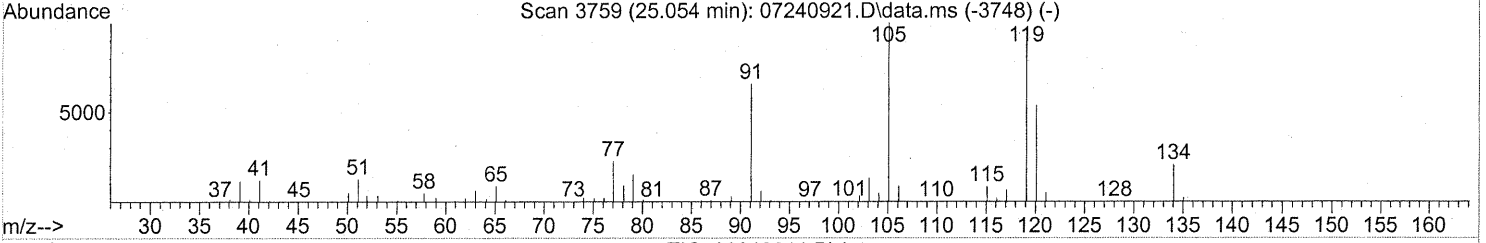
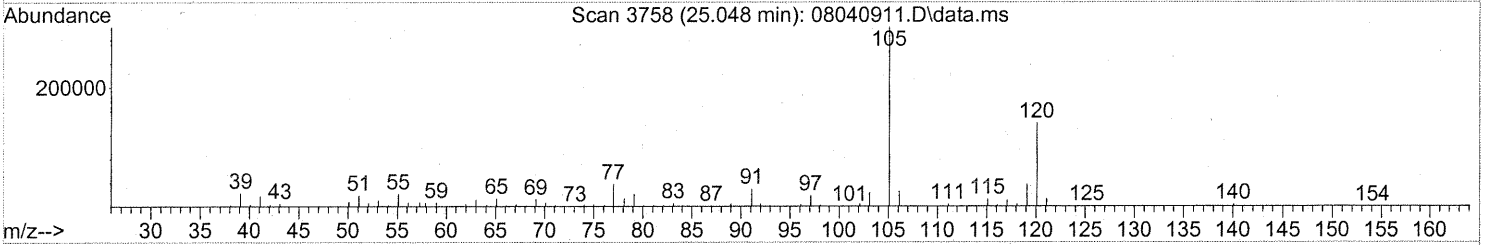
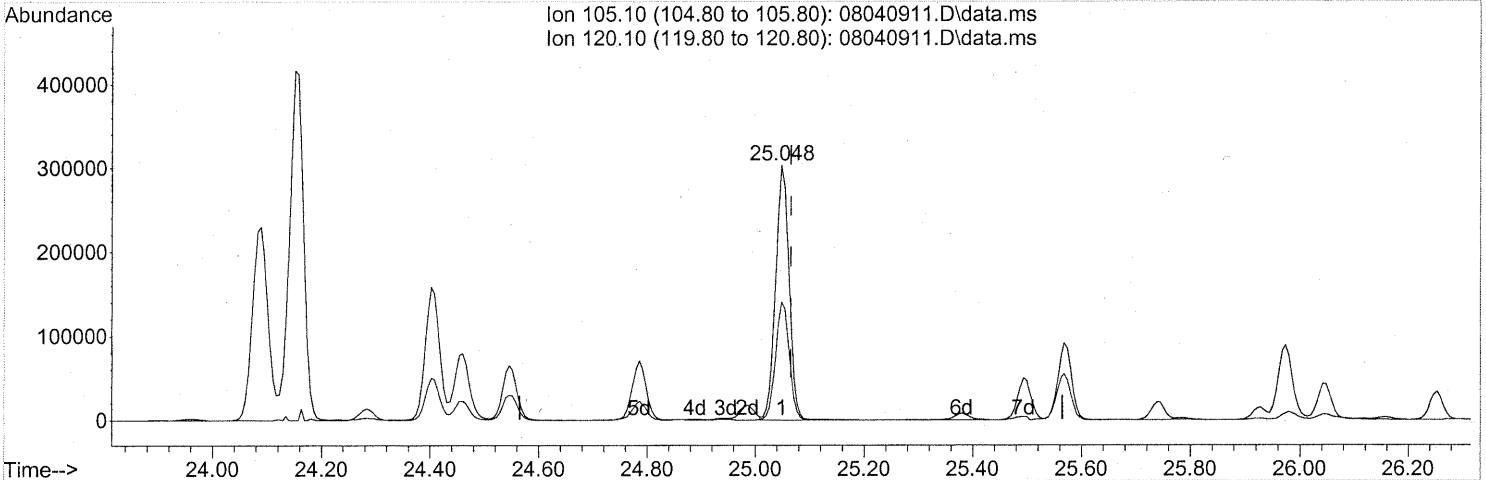
response 118320

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	47.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

25.048min (-0.017) 4.68ng

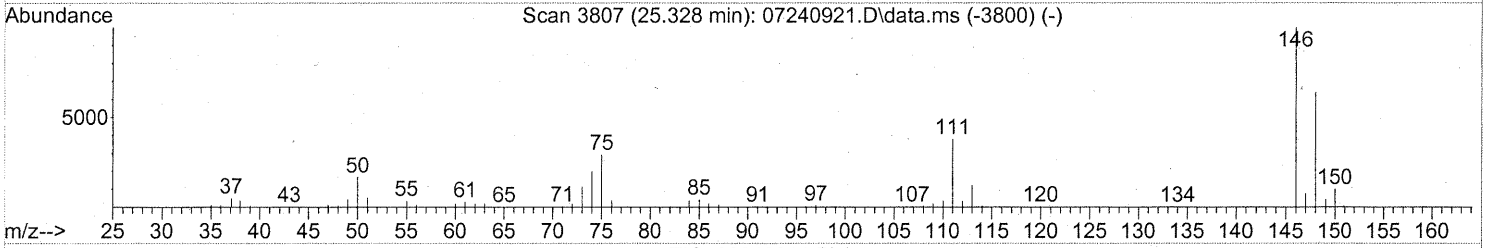
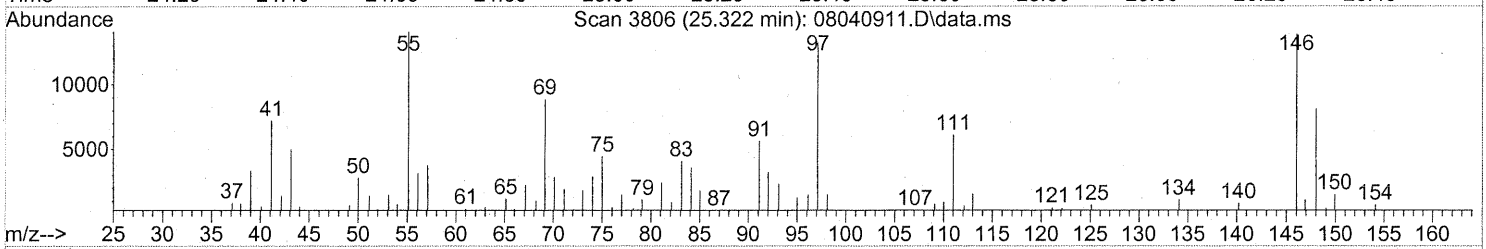
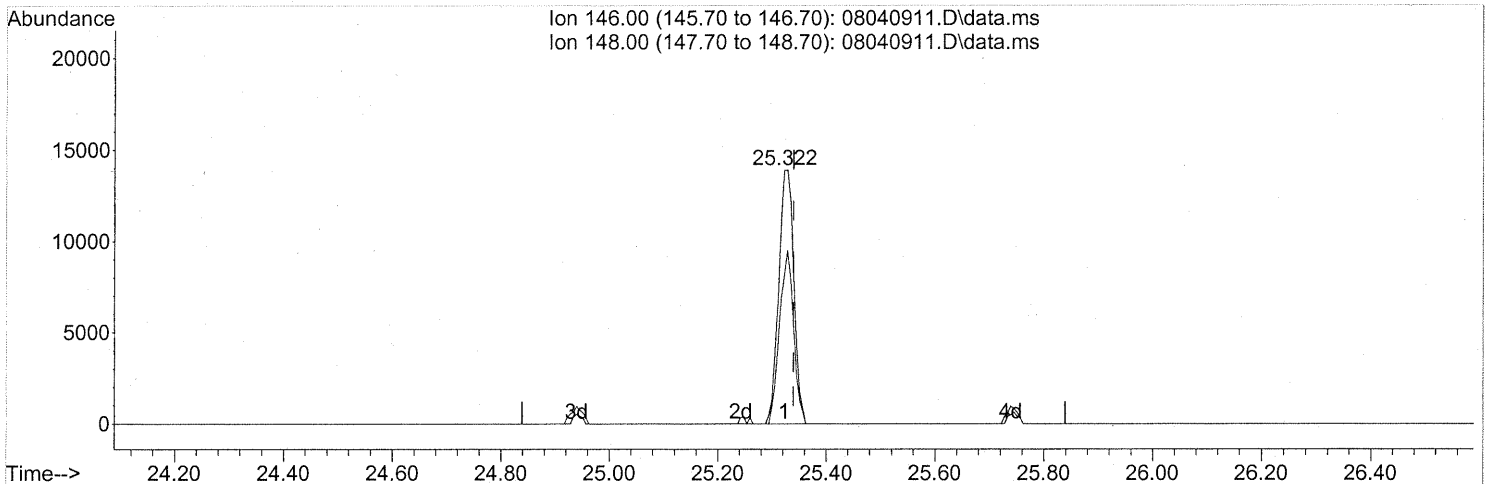
response 522230

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.322min (-0.017) 0.44ng

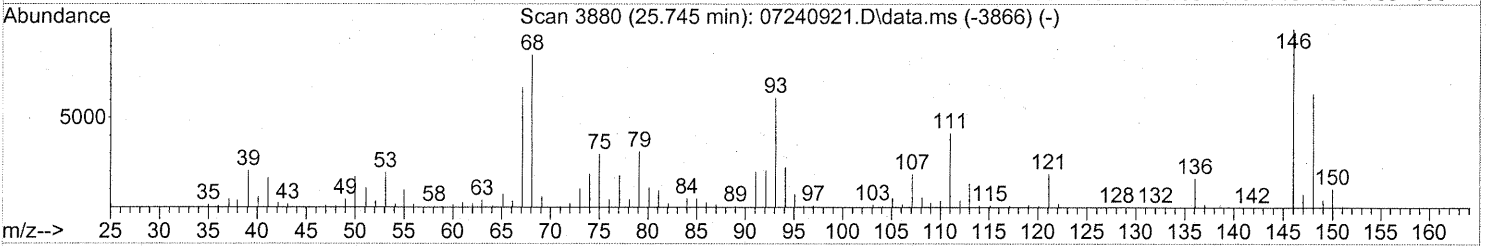
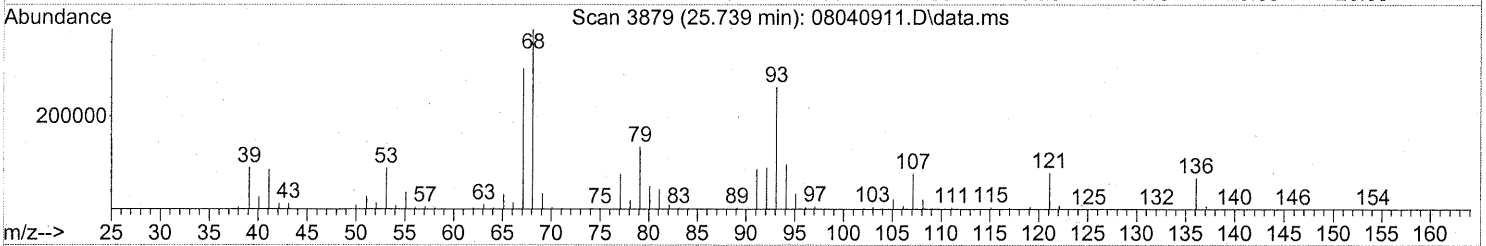
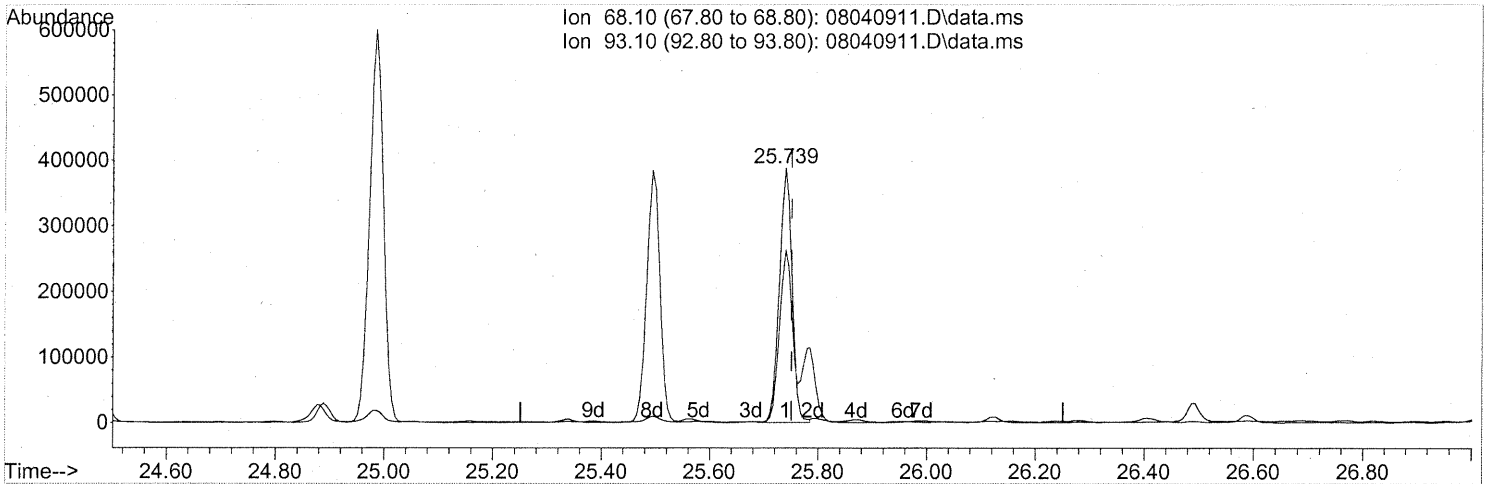
response 26809

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	63.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040911.D
 Acq On : 4 Aug 2009 13:52
 Operator : EM
 Sample : P0902624-002 dup (1000ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040911.D\data.ms

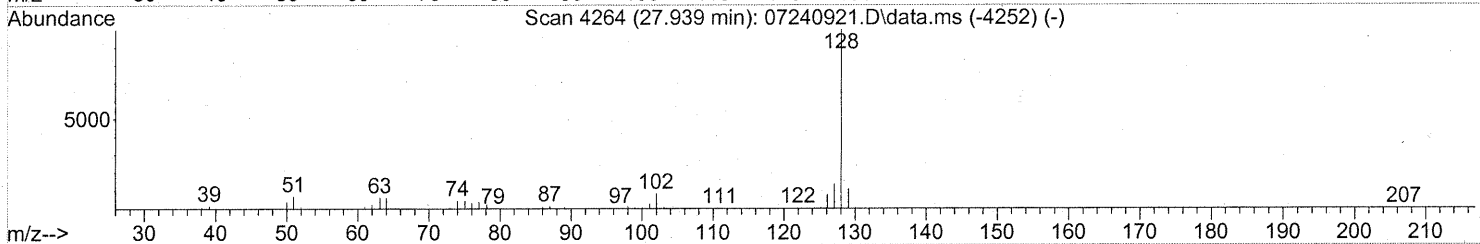
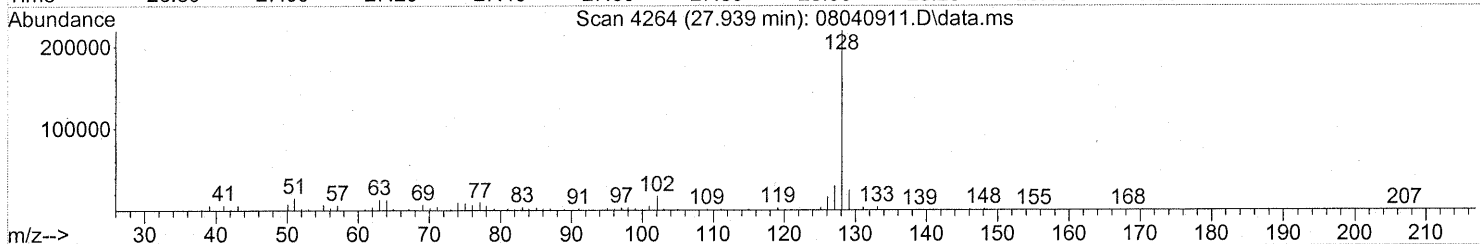
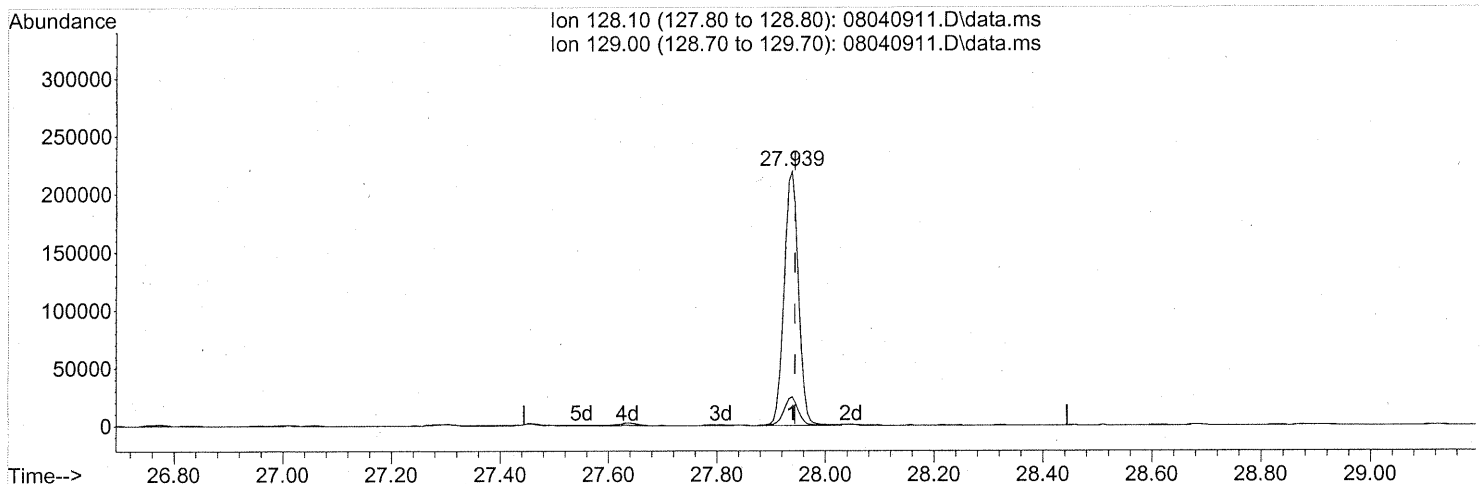
(91) d-Limonene (T)
 25.739min (-0.012) 14.22ng
 response 629675

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	73.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040911.D
Acq On : 4 Aug 2009 13:52
Operator : EM
Sample : P0902624-002 dup (1000ml)
Misc : Environmental H & E 99442
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 14:42:06 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040911.D\data.ms

(95) Naphthalene (T)

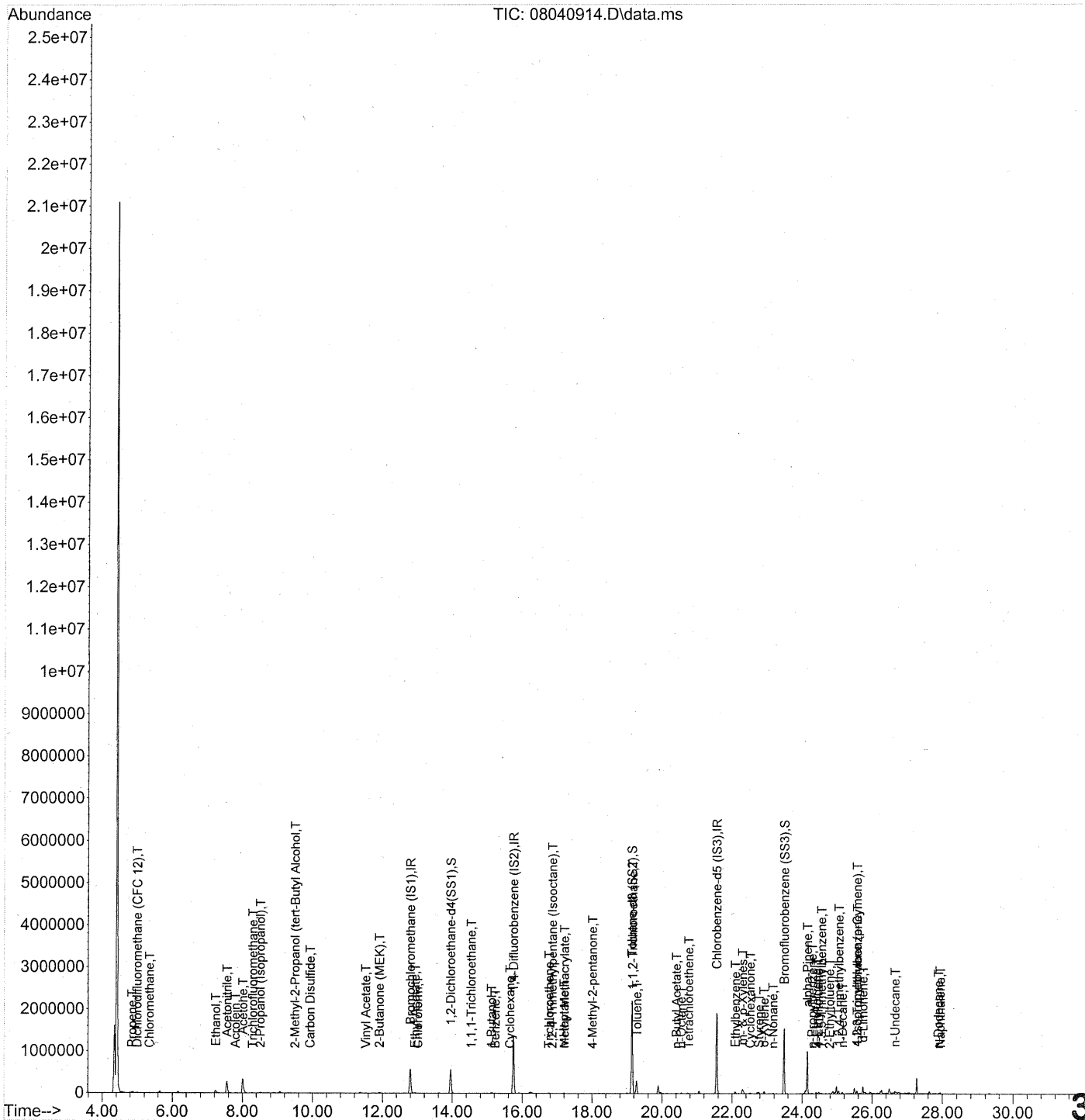
27.939min (-0.006) 2.94ng

response 402706

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	11.14
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040914.D
 Acq On : 4 Aug 2009 16:55
 Operator : EM
 Sample : P0902624-002 dup dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:11 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040914.D
 Acq On : 4 Aug 2009 16:55
 Operator : EM
 Sample : P0902624-002 dup dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:11 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	316865	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1618599	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	768421	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	566403	25.266	ng	-0.03 ✓
Spiked Amount	25.000			Recovery	=	101.08%
57) Toluene-d8 (SS2)	19.14	98	1900528	25.000	ng	-0.02 ✓
Spiked Amount	25.000			Recovery	=	100.00%
73) Bromofluorobenzene (SS3)	23.49	174	561443	24.565	ng	0.00 ✓
Spiked Amount	25.000			Recovery	=	98.28%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	5407	0.270	ng	# 32
3) Dichlorodifluoromethan...	4.99	85	12024	0.301	ng	96
4) Chloromethane	5.35	50	4096	0.137	ng	88
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	5.79	62	109	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.60	94	694	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.24	45	95917	7.231	ng	100
11) Acetonitrile	7.56	41	425862	14.199	ng	100
12) Acrolein	7.80	56	4715	0.488	ng	99
13) Acetone	8.01	58	187913	12.456	ng	95
14) Trichlorofluoromethane	8.29	101	5420	0.156	ng	92
15) 2-Propanol (Isopropanol)	8.51	45	28891	0.728	ng	93
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.50	59	4616	0.103	ng	# 65
19) Methylene Chloride	9.53	84	624	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	9.93	76	12349	0.181	ng	92
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	11.52	86	2271	0.631	ng	# 89
27) 2-Butanone (MEK)	11.92	72	9453	0.821	ng	# 72
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.93	61	1618	0.215	ng	# 68
31) n-Hexane	12.92	57	1532	N.D.		

384

Em 8/6/09

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040914.D
 Acq On : 4 Aug 2009 16:55
 Operator : EM
 Sample : P0902624-002 dup dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:11 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	2138	0.068	ng	89
34) Tetrahydrofuran (THF)	13.63	72	372	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	14.54	97	1818	0.061	ng #	61
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.11	56	19302	0.960	ng	82
41) Benzene	15.22	78	10200	0.118	ng	96
42) Carbon Tetrachloride	15.46	117	854	N.D.		
43) Cyclohexane	15.65	84	2766	0.086	ng #	77
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	16.77	130	5589	0.253	ng	94
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.86	57	8684	0.104	ng	88
50) Methyl Methacrylate	17.21	100	974	0.120	ng #	1
51) n-Heptane	17.20	71	4139	0.198	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.02	58	865	0.053	ng #	31
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	148972	8.215	ng #	8
58) Toluene	19.28	91	285219	3.065	ng	100
59) 2-Hexanone	19.59	43	1319	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	13250	0.298	ng	98
63) n-Octane	20.55	57	3211	0.177	ng	97
64) Tetrachloroethene	20.76	166	4600	0.187	ng	94
65) Chlorobenzene	21.66	112	569	N.D.		
66) Ethylbenzene	22.09	91	43096	0.426	ng	98
67) m- & p-Xylenes	22.30	91	95247	1.141	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.77	104	18387	0.299	ng	97
70) o-Xylene	22.92	91	33579	0.404	ng	100
71) n-Nonane	23.17	43	8997	0.222	ng	93
72) 1,1,2,2-Tetrachloroethane	22.52	83	723	N.D.		
74) Cumene	23.66	105	2314	N.D.		
75) alpha-Pinene	24.15	93	465449	8.822	ng	97
76) n-Propylbenzene	24.28	91	9100	0.068	ng	90
77) 3-Ethyltoluene	24.40	105	22896	0.219	ng	98
78) 4-Ethyltoluene	24.46	105	11697	0.111	ng	95
79) 1,3,5-Trimethylbenzene	24.55	105	8935	0.102	ng	99

385

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040914.D
 Acq On : 4 Aug 2009 16:55
 Operator : EM
 Sample : P0902624-002 dup dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:11 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

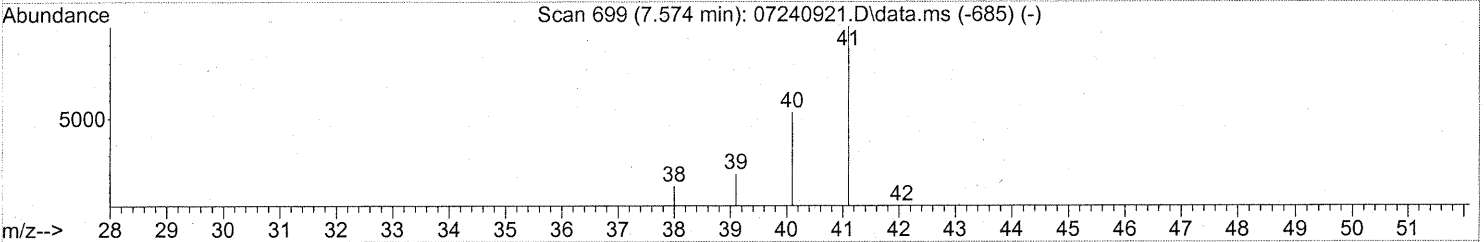
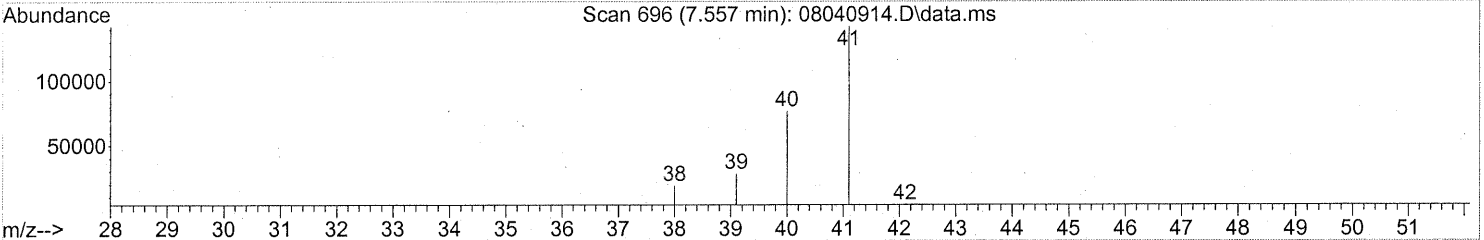
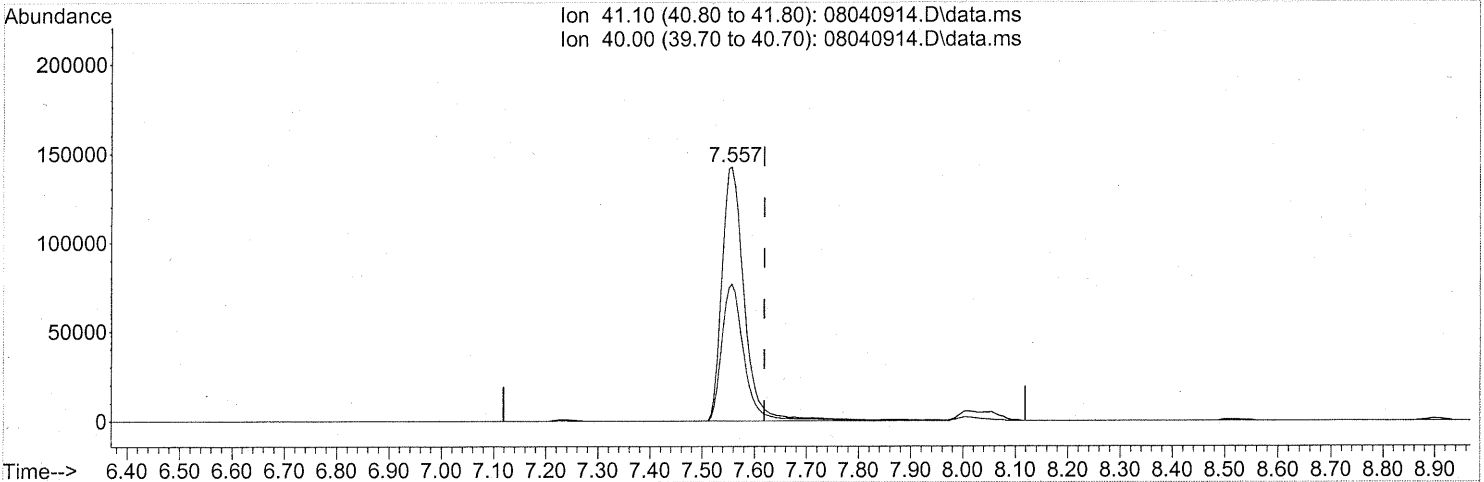
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.93	118	249	N.D.		
81) 2-Ethyltoluene	24.79	105	9469	0.086	ng	96
82) 1,2,4-Trimethylbenzene	25.05	105	37643	0.385	ng	89
83) n-Decane	25.15	57	15170	0.322	ng	99
84) Benzyl Chloride	25.33	91	818	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	1949	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	1949	N.D.		
87) sec-Butylbenzene	25.39	105	898	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	27350	0.222	ng	97
89) 1,2,3-Trimethylbenzene	25.57	105	11594	0.117	ng	85
90) 1,2-Dichlorobenzene	25.33	146	1949	N.D.		
91) d-Limonene	25.74	68	40703	1.049	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	20245	0.419	ng	84
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	28384	0.237	ng	97
96) n-Dodecane	27.89	57	6603	0.128	ng	97
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.52	55	10865	0.387	ng	98
99) tert-Butylbenzene	25.05	119	4757	N.D.		
100) n-Butylbenzene	26.07	91	4314	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040914.D
Acq On : 4 Aug 2009 16:55
Operator : EM
Sample : P0902624-002 dup dil (100ml)
Misc : Environmental H & E 99442
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:11 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



TIC: 08040914.D\data.ms

(11) Acetonitrile (T)

7.557min (-0.063) 14.20ng

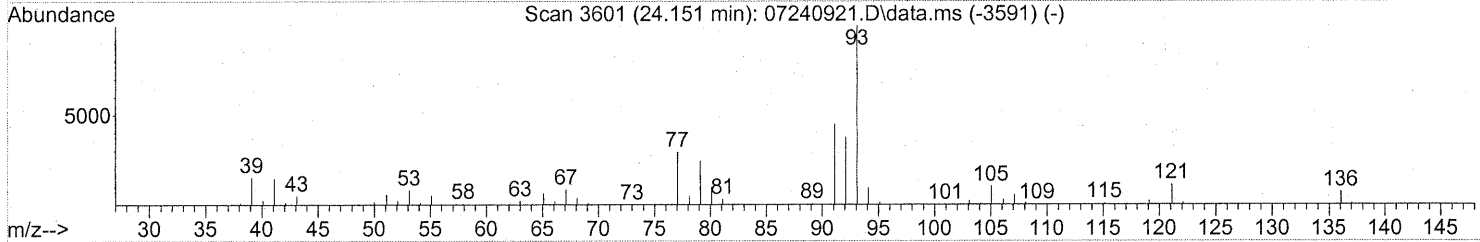
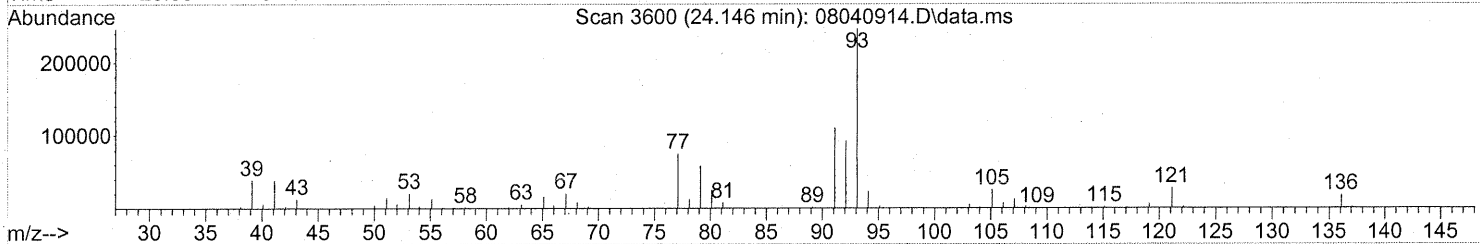
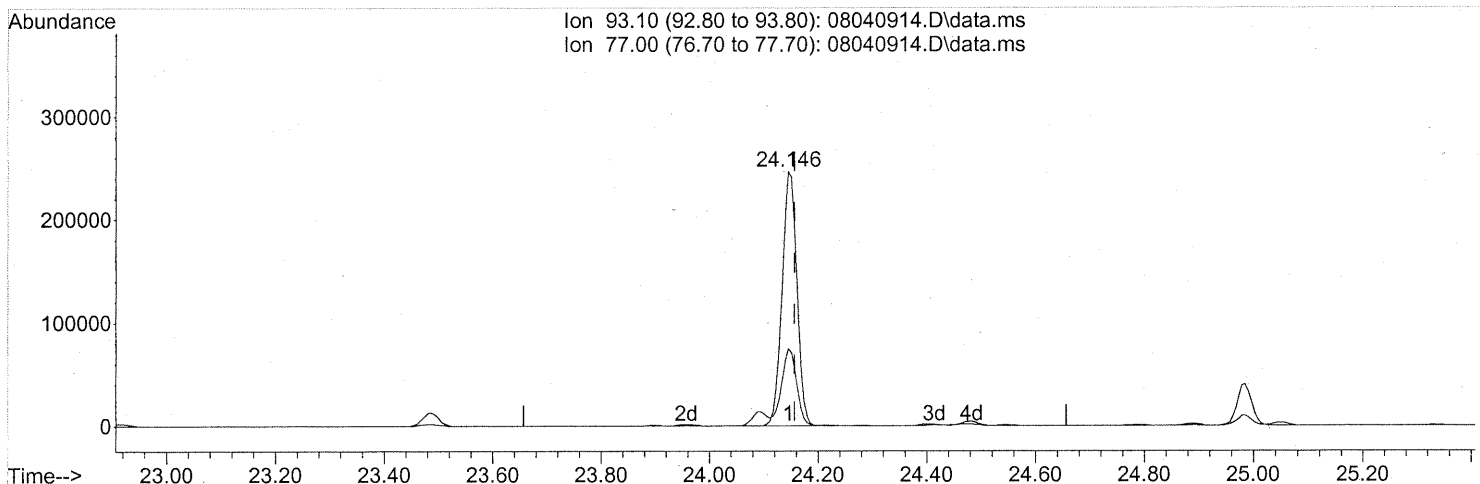
response 425862

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	53.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040914.D
 Acq On : 4 Aug 2009 16:55
 Operator : EM
 Sample : P0902624-002 dup dil (100ml)
 Misc : Environmental H & E 99442
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 07:55:11 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040914.D\data.ms

(75) alpha-Pinene (T)
 24.146min (-0.011) 8.82ng
 response 465449

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	31.02
0.00	0.00	0.00
0.00	0.00	0.00

INITIAL CALIBRATION STANDARDS

Response Factor Report MS09

Method Path : J:\MS09\Methods\
 Method File : R9072409.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Jul 27 09:38:25 2009
 Response Via : Initial Calibration

Calibration Files

0.1 =07240916.D 0.2 =07240917.D 0.5 =07240918.D 1.0 =07240919.D 5.0 =07240920.D 25 =07240921.D
 50 =07240922.D 100 =07240923.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR										
Bromochloromethane...										
2) T Propene	1.794	1.486	1.396	1.219	1.436	1.447	1.853	1.986	1.577	16.89
3) T Dichlorodifluo...	3.537	3.076	3.603	3.161	2.884	2.858	3.054	3.007	3.148	8.88
4) T Chloromethane	2.781	2.370	2.672	2.394	2.035	2.202	2.316	2.088	2.357	11.13
5) T 1,2-Dichloro-1...	1.946	1.806	2.019	1.796	1.557	1.630	1.697	1.730	1.773	8.70
6) T Vinyl Chloride	2.708	2.470	2.879	2.522	2.266	2.342	2.427	2.488	2.513	7.85
7) T 1,3-Butadiene	1.983	1.573	1.880	1.696	1.552	1.740	1.952	2.078	1.807	10.83
8) T Bromomethane	1.446	1.457	1.654	1.505	1.333	1.471	1.480	1.511	1.482	5.99
9) T Chloroethane	1.331	1.184	1.451	1.275	1.171	1.193	1.209	1.244	1.257	7.54
10) T Ethanol	1.013	0.956	1.027	0.945	1.005	0.984	1.177	1.266	1.046	10.88
11) T Acetonitrile	2.542	2.514	2.473	2.336	2.187	2.200	2.305	2.372	2.366	5.73
12) T Acrolein	0.685	0.765	0.791	0.739	0.716	0.770	0.813	0.824	0.763	6.27
13) T Acetone	1.372	1.147	1.220	1.058	0.962	1.098	1.269	1.397	1.190	12.82
14) T Trichlorofluor...	2.837	2.656	3.100	2.728	2.533	2.648	2.747	2.686	2.742	6.17
15) T 2-Propanol (Is...	3.373	3.235	3.828	3.570	2.587	3.065	2.721	2.678	3.132	14.39
16) T Acrylonitrile	1.046	1.279	1.611	1.589	1.618	1.784	1.920	1.928	1.597	19.13
17) T 1,1-Dichloroet...	1.330	1.294	1.585	1.415	1.274	1.389	1.440	1.442	1.396	7.14
18) T 2-Methyl-2-Pro...	3.658	3.353	3.878	3.622	3.375	3.875	2.930		3.527	9.55
19) T Methylene Chlo...	2.023	1.652	1.688	1.519	1.334	1.444	1.489	1.458	1.576	13.55
20) T 3-Chloro-1-pro...	1.454	1.441	1.759	1.617	1.578	1.836	1.945	1.978	1.701	12.35
21) T Trichlorotrifl...	1.242	1.176	1.421	1.248	1.152	1.254	1.264	1.192	1.244	6.62
22) T Carbon Disulfide	6.067	5.168	5.714	5.186	4.758	5.190	5.398	5.463	5.368	7.37
23) T trans-1,2-Dich...	1.929	1.908	2.243	2.080	1.893	2.062	2.125	2.141	2.048	6.16
24) T 1,1-Dichloroet...	2.455	2.414	2.763	2.501	2.308	2.468	2.532	2.528	2.496	5.20
25) T Methyl tert-Bu...	4.401	4.228	4.705	4.237	4.051	4.387	4.570	4.636	4.402	5.12
26) T Vinyl Acetate			0.195	0.209	0.238	0.340	0.368	0.354	0.284	27.72
27) T 2-Butanone (MEK)			0.822	0.799	0.877	1.044	1.094	0.812	0.908	14.14
28) T cis-1,2-Dichlo...	1.979	1.771	2.186	1.925	1.801	1.979	2.073	2.094	1.976	7.22
29) T Diisopropyl Ether	1.375	1.153	1.410	1.266	1.182	1.410	1.623	1.871	1.411	16.89
30) T Ethyl Acetate			0.460	0.422	0.464	0.605	0.730	0.887	0.595	30.87
31) n-Hexane	2.629	2.323	2.621	2.357	2.220	2.683	3.232	3.931	2.750	20.75

sem 7/27/09

Method Path : J:\MS09\Methods\
 Method File : R9072409.M

Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

71)	T	n-Nonane	1.277	1.111	1.298	1.175	1.173	1.398	1.544	1.587	1.320
72)	T	1,1,2,2-Tetrac...	1.018	0.883	1.063	1.033	1.038	1.214	1.335	1.414	1.125
73)	S	Bromofluoroben...	0.737	0.731	0.740	0.736	0.769	0.757	0.751	0.727	0.744
74)	T	Cumene	3.588	3.231	3.600	3.357	3.198	3.691	4.059	4.011	3.592
75)	T	alpha-Pinene	1.514	1.418	1.665	1.568	1.565	1.838	2.038	2.125	1.717
76)	T	n-Propylbenzene	4.211	3.812	4.310	4.002	3.947	4.651	5.109	4.570	4.326
77)	T	3-Ethyltoluene	3.178	2.858	3.302	3.122	3.078	3.673	3.985	4.034	3.404
78)	T	4-Ethyltoluene	3.346	2.973	3.357	3.108	3.079	3.602	4.104	3.757	3.416
79)	T	1,3,5-Trimethyl...	2.741	2.413	2.743	2.568	2.536	2.987	3.354	3.384	2.841
80)	T	alpha-Methylst...	1.384	1.205	1.445	1.419	1.465	1.757	1.968	2.067	1.589
81)	T	2-Ethyltoluene	3.402	2.994	3.444	3.250	3.233	3.833	4.262	4.108	3.566
82)	T	1,2,4-Trimethyl...	2.719	2.481	2.777	2.646	2.728	3.589	4.349	4.130	3.177
83)	T	n-Decane	1.333	1.204	1.401	1.302	1.353	1.706	1.959	2.021	1.535
84)	T	Benzyl Chloride	1.558	1.428	1.796	1.866	2.191	2.801	3.252	3.326	2.277
85)	T	1,3-Dichlorobe...	1.568	1.419	1.597	1.505	1.504	1.722	1.951	2.076	1.668
86)	T	1,4-Dichlorobe...	1.722	1.460	1.671	1.595	1.572	1.783	2.006	2.093	1.738
87)	T	sec-Butylbenzene	3.773	3.358	3.895	3.614	3.650	4.332	4.881	4.275	3.972
88)	T	4-Isopropyltol...	3.488	3.227	3.682	3.465	3.573	4.572	5.554	4.476	4.005
89)	T	1,2,3-Trimethyl...	2.693	2.483	2.871	2.723	2.812	3.636	4.486	4.179	3.235
90)	T	1,2-Dichlorobe...	1.552	1.346	1.595	1.475	1.498	1.804	2.186	2.411	1.733
91)	T	d-Limonene	0.858	1.008	0.978	1.090	1.444	1.722	1.736	1.262	29.05
92)	T	1,2-Dibromo-3-...	0.337	0.342	0.455	0.463	0.499	0.546	0.619	0.633	0.487
93)	T	n-Undecane	1.381	1.214	1.361	1.300	1.387	1.738	2.062	2.129	1.572
94)	T	1,2,4-Trichlor...	1.048	0.959	1.074	1.018	1.042	1.054	1.289	1.463	1.118
95)	T	Naphthalene	3.861	3.316	3.739	3.606	3.775	3.807	4.683	4.402	3.899
96)	T	n-Dodecane	1.459	1.273	1.398	1.381	1.491	1.766	2.237	2.430	1.679
97)	T	Hexachlorobuta...	0.567	0.537	0.610	0.584	0.595	0.616	0.744	0.866	0.640
98)	T	Cyclohexanone	0.910	0.749	0.808	0.832	0.838	1.006	1.076	1.086	0.913
99)	T	tert-Butylbenzene	2.870	2.522	2.909	2.736	2.755	3.533	4.220	4.144	3.211
100)	T	n-Butylbenzene	2.788	2.549	3.005	2.841	2.938	3.508	3.992	3.683	3.163

(#) = Out of Range

Sam 7/27/09

39

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240914
20ng/L Std. ID: S20-07240909

200ng/L Std. ID: S20-07240905
Dilution Factors: 5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L):	ICAL Concentrations (Primary Source)							
		200ng/L	20ng/L	4ng/L		ICAL Points:	0.025	0.05	0.025	0.050	0.25	0.125	0.25
Propene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Dichlorodifluoromethane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Chloromethane	1.00	200	20.0	4.00		0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
Freon-114	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Vinyl Chloride	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
1,3-Butadiene	1.20	240	24.0	4.80		0.120	0.240	0.600	1.20	6.00	30.0	60.0	120
Bromomethane	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Chloroethane	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
Ethanol	5.20	1040	104	20.8		0.520	1.040	2.60	5.20	26.0	130	260	520
Acetonitrile	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Acrolein	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Acetone	5.50	1100	110	22.0		0.550	1.100	2.75	5.50	27.5	138	275	550
Trichlorofluoromethane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Isopropanol	1.89	378	37.8	7.56		0.189	0.378	0.945	1.89	9.45	47.3	94.5	189
Acrylonitrile	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,1-Dichloroethene	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
tert-Butanol	2.02	404	40.4	8.08		0.202	0.404	1.01	2.02	10.1	50.5	101	202
Methylene Chloride	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Allyl Chloride	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Trichlorotrifluoroethane	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
Carbon Disulfide	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
trans-1,2-Dichloroethene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,1-Dichloroethane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Methyl tert-Butyl Ether	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
Vinyl Acetate	5.02	1004	100	20.1		0.502	1.004	2.51	5.02	25.1	126	251	502
2-Butanone	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
cis-1,2-Dichloroethene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
Diisopropyl Ether	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Ethyl Acetate	2.13	426	42.6	8.52		0.213	0.426	1.07	2.13	10.7	53.3	107	213
n-Hexane	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
Chloroform	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Tetrahydrofuran	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
Ethyl tert-Butyl Ether	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,2-Dichloroethane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,1,1-Trichloroethane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Isopropyl Acetate	2.09	418	41.8	8.36		0.209	0.418	1.05	2.09	10.5	52.3	105	209
1-Butanol	2.07	414	41.4	8.28		0.207	0.414	1.04	2.07	10.4	51.8	104	207
Benzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Carbon Tetrachloride	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Cyclohexane	2.15	430	43.0	8.60		0.215	0.430	1.08	2.15	10.8	53.8	108	215
tert-Amyl Methyl Ether	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
1,2-Dichloropropane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Bromodichloromethane	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Trichloroethene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,4-Dioxane	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Isooctane	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
Methyl Methacrylate	2.13	426	42.6	8.52		0.213	0.426	1.07	2.13	10.7	53.3	107	213
n-Heptane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
cis-1,3-Dichloropropene	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
4-Methyl-2-pentanone	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
trans-1,3-Dichloropropene	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
1,1,2-Trichloroethane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Toluene	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
2-Hexanone	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
Dibromochloromethane	1.15	230	23.0	4.60		0.115	0.230	0.575	1.15	5.75	28.8	57.5	115
1,2-Dibromoethane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Butyl Acetate	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
n-Octane	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Tetrachloroethene	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Chlorobenzene	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Ethylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
m-&p-Xylene	2.08	416	41.6	8.32		0.208	0.416	1.04	2.08	10.4	52.0	104	208

em 7/27/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240914
20ng/L Std. ID: S20-07240909

200ng/L Std. ID: S20-07240905
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
		5	50	250		0.025	0.050	0.025	0.05	0.25	0.125	0.25	0.50
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.

em 7/27/09

Calibration Status Report MS09

Method Path : J:\MS09\Methods\
 Method File : R9072409.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Jul 27 09:38:25 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS09\Data\2009_07\24\07240916.D
2	0.2	0	25	J:\MS09\Data\2009_07\24\07240917.D
3	0.5	1	25	J:\MS09\Data\2009_07\24\07240918.D
4	1.0	1	25	J:\MS09\Data\2009_07\24\07240919.D
5	5.0	5	25	J:\MS09\Data\2009_07\24\07240920.D
6	25	27	25	J:\MS09\Data\2009_07\24\07240921.D
7	50	54	25	J:\MS09\Data\2009_07\24\07240922.D
8	100	107	25	J:\MS09\Data\2009_07\24\07240923.D

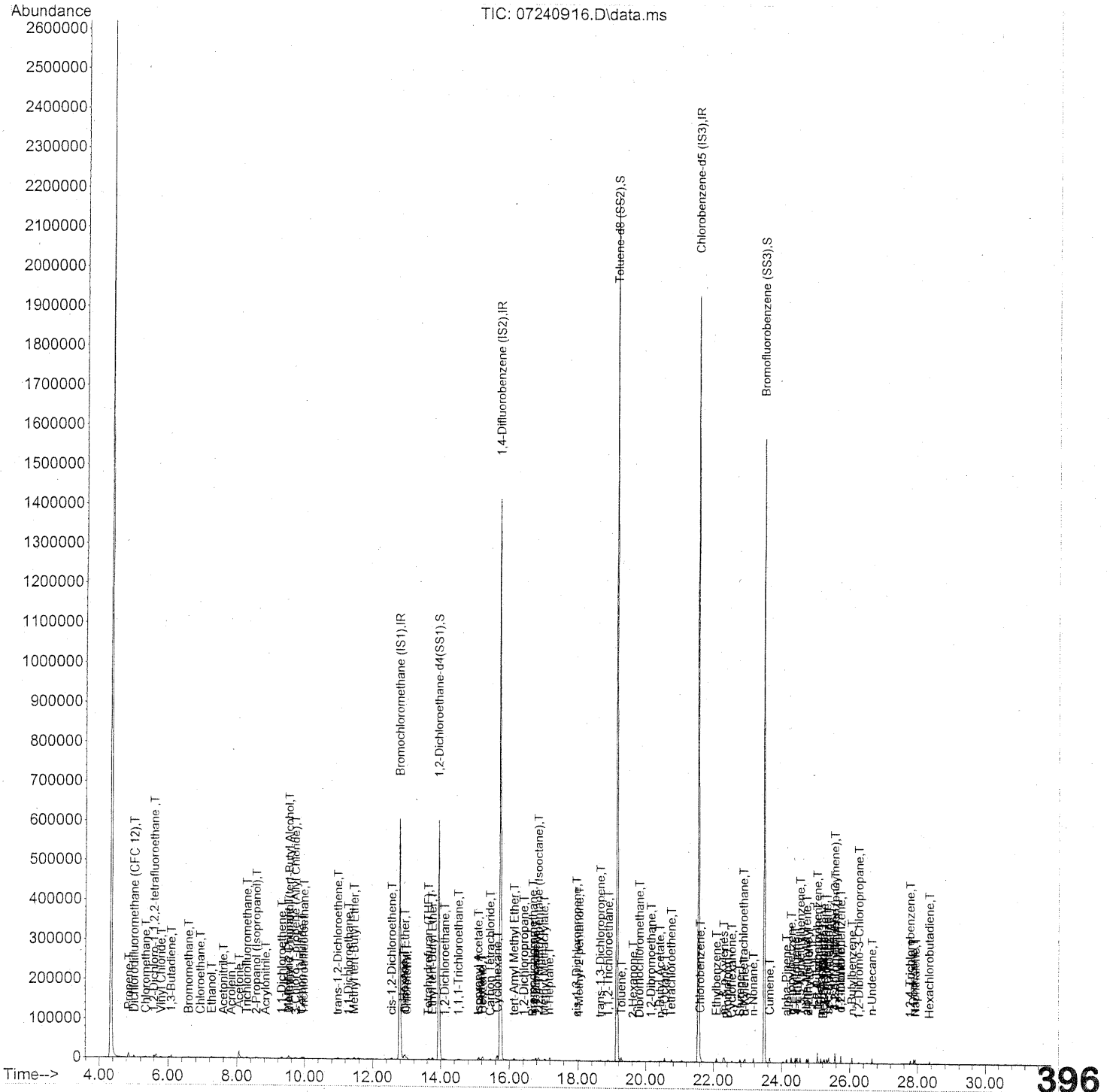
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1	0.1	Jul 27 09:18 2009	Jul 27 08:59 2009	24 Jul 2009 20:46
2	0.2	Jul 27 09:19 2009	Jul 27 09:03 2009	24 Jul 2009 21:28
3	0.5	Jul 27 09:20 2009	Jul 27 09:04 2009	24 Jul 2009 22:10
4	1.0	Jul 27 09:20 2009	Jul 27 09:06 2009	24 Jul 2009 22:51
5	5.0	Jul 27 09:20 2009	Jul 27 09:09 2009	24 Jul 2009 23:33
6	25	Jul 27 09:21 2009	Jul 27 09:12 2009	25 Jul 2009 00:14
7	50	Jul 27 09:21 2009	Jul 27 09:13 2009	25 Jul 2009 00:56
8	100	Jul 27 09:21 2009	Jul 27 09:14 2009	25 Jul 2009 1:38

R9072409.M Mon Jul 27 09:49:58 2009

Cam 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240916.D
 Acq On : 24 Jul 2009 20:46
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240914
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 08:59:44 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240916.D
 Acq On : 24 Jul 2009 20:46
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240914
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 08:59:44 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.79	130	337880	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.74	114	1691887	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.56	82	769516	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	597763	20.213	ng	-0.02
Spiked Amount	25.000			Recovery =		80.84%
57) Toluene-d8 (SS2)	19.14	98	1912000	27.464	ng	0.00
Spiked Amount	25.000			Recovery =		109.84%
73) Bromofluorobenzene (SS3)	23.49	174	567494	28.491	ng	0.00
Spiked Amount	25.000			Recovery =		113.96%

Target Compounds

						Qvalue
2) Propene	4.87	42	2594	0.137	ng	96
3) Dichlorodifluoromethan...	5.01	85	5020	0.131	ng	# 88
4) Chloromethane	5.36	50	3758	0.119	ng	88
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	2788	0.127	ng	87
6) Vinyl Chloride	5.81	62	3697	0.102	ng	93
7) 1,3-Butadiene	6.10	54	3216	0.112	ng	95
8) Bromomethane	6.59	94	1994	0.091	ng	91
9) Chloroethane	6.93	64	1817	0.115	ng	# 55
10) Ethanol	7.26	45	7120	0.538	ng	69
11) Acetonitrile	7.60	41	3608	0.114	ng	91
12) Acrolein	7.84	56	1000	0.086	ng	# 60
13) Acetone	8.07	58	10195	0.624	ng	99
14) Trichlorofluoromethane	8.29	101	4026	0.108	ng	95
15) 2-Propanol (Isopropanol)	8.56	45	8615	0.170	ng	81
16) Acrylonitrile	8.84	53	1499	0.061	ng	91
17) 1,1-Dichloroethene	9.32	96	1978	0.108	ng	# 81
18) 2-Methyl-2-Propanol (t...	9.53	59	9987	0.181	ng	# 84
19) Methylene Chloride	9.52	84	2926	0.141	ng	99
20) 3-Chloro-1-propene (Al...	9.73	41	2122	0.079	ng	# 58
21) Trichlorotrifluoroethane	9.98	151	1847	0.132	ng	98
22) Carbon Disulfide	9.92	76	8774	0.134	ng	79
23) trans-1,2-Dichloroethene	10.98	61	2763	0.101	ng	96
24) 1,1-Dichloroethane	11.30	63	3517	0.096	ng	84
25) Methyl tert-Butyl Ether	11.46	73	6484	0.104	ng	95
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	11.98	72	112	N.D.		
28) cis-1,2-Dichloroethene	12.56	61	2915	0.110	ng	97
29) Diisopropyl Ether	12.94	87	1988	0.111	ng	# 60
30) Ethyl Acetate	12.96	61	266	N.D.		
31) n-Hexane	12.92	57	3873	0.118	ng	

397

em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240916.D
 Acq On : 24 Jul 2009 20:46
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240914
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 08:59:44 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.00	83	3685	0.106	ng	94
34) Tetrahydrofuran (THF)	13.63	72	790m	0.063	ng	
35) Ethyl tert-Butyl Ether	13.75	87	2319	0.088	ng #	83
36) 1,2-Dichloroethane	14.13	62	2835	0.094	ng #	49
38) 1,1,1-Trichloroethane	14.52	97	3347	0.103	ng	91
39) Isopropyl Acetate	15.10	61	1987	0.163	ng #	55
40) 1-Butanol	15.18	56	1843	0.092	ng #	78
41) Benzene	15.22	78	12606	0.144	ng	92
42) Carbon Tetrachloride	15.45	117	2870	0.112	ng	92
43) Cyclohexane	15.65	84	7158	0.210	ng	95
44) tert-Amyl Methyl Ether	16.14	73	6042	0.101	ng #	74
45) 1,2-Dichloropropane	16.43	63	1875	0.101	ng	87
46) Bromodichloromethane	16.69	83	2582	0.099	ng	93
47) Trichloroethene	16.77	130	2460	0.127	ng	92
48) 1,4-Dioxane	16.77	88	1107	0.076	ng #	63
49) 2,2,4-Trimethylpentane...	16.86	57	10166	0.119	ng	95
50) Methyl Methacrylate	17.04	100	907	0.123	ng #	51
51) n-Heptane	17.20	71	2001	0.093	ng	93
52) cis-1,3-Dichloropropene	17.95	75	2842	0.089	ng	74
53) 4-Methyl-2-pentanone	18.03	58	1068	0.062	ng #	31
54) trans-1,3-Dichloropropene	18.65	75	2298	0.077	ng	69
55) 1,1,2-Trichloroethane	18.89	97	1754	0.101	ng	97
58) Toluene	19.28	91	11269	0.150	ng	95
59) 2-Hexanone	19.62	43	2184	0.057	ng	82
60) Dibromochloromethane	19.82	129	2034	0.131	ng	87
61) 1,2-Dibromoethane	20.16	107	2097	0.125	ng	98
62) n-Butyl Acetate	20.42	43	3158	0.073	ng #	70
63) n-Octane	20.55	57	1806	0.115	ng	90
64) Tetrachloroethene	20.75	166	2547	0.152	ng	100
65) Chlorobenzene	21.61	112	6728	0.153	ng	97
66) Ethylbenzene	22.09	91	10743	0.131	ng	100
67) m- & p-Xylenes	22.31	91	17195	0.252	ng	99
68) Bromoform	22.41	173	1493	0.114	ng #	65
69) Styrene	22.78	104	6241	0.139	ng	94
70) o-Xylene	22.92	91	8494	0.126	ng	100
71) n-Nonane	23.17	43	4165	0.113	ng	89
72) 1,1,2,2-Tetrachloroethane	22.88	83	3354	0.121	ng	95
74) Cumene	23.65	105	11374	0.137	ng	96
75) alpha-Pinene	24.15	93	4706	0.115	ng	91
76) n-Propylbenzene	24.28	91	13350	0.127	ng	96
77) 3-Ethyltoluene	24.40	105	10663	0.136	ng	100
78) 4-Ethyltoluene	24.46	105	11227	0.147	ng	97
79) 1,3,5-Trimethylbenzene	24.55	105	9196	0.141	ng	

398

em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240916.D
 Acq On : 24 Jul 2009 20:46
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240914
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 08:59:44 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	4559	0.137	ng	94
81) 2-Ethyltoluene	24.79	105	10995	0.135	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	8870	0.121	ng	99
83) n-Decane	25.15	57	4431	0.111	ng	94
84) Benzyl Chloride	25.22	91	5275	0.096	ng	92
85) 1,3-Dichlorobenzene	25.25	146	5262	0.158	ng	99
86) 1,4-Dichlorobenzene	25.33	146	5617	0.164	ng	89
87) sec-Butylbenzene	25.38	105	12310	0.137	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	11057	0.125	ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	8869	0.123	ng	96
90) 1,2-Dichlorobenzene	25.74	146	5064	0.152	ng	95
91) d-Limonene	25.74	68	2751	0.103	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.27	157	1142	0.111	ng	85
93) n-Undecane	26.65	57	4632	0.122	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	3614	0.181	ng	96
95) Naphthalene	27.94	128	12598	0.168	ng	97
96) n-Dodecane	27.89	57	4445	0.106	ng	93
97) Hexachlorobutadiene	28.35	225	1920	0.153	ng	93
98) Cyclohexanone	22.54	55	2746	0.117	ng	# 87
99) tert-Butylbenzene	25.05	119	9363	0.131	ng	97
100) n-Butylbenzene	26.06	91	9355	0.124	ng	99

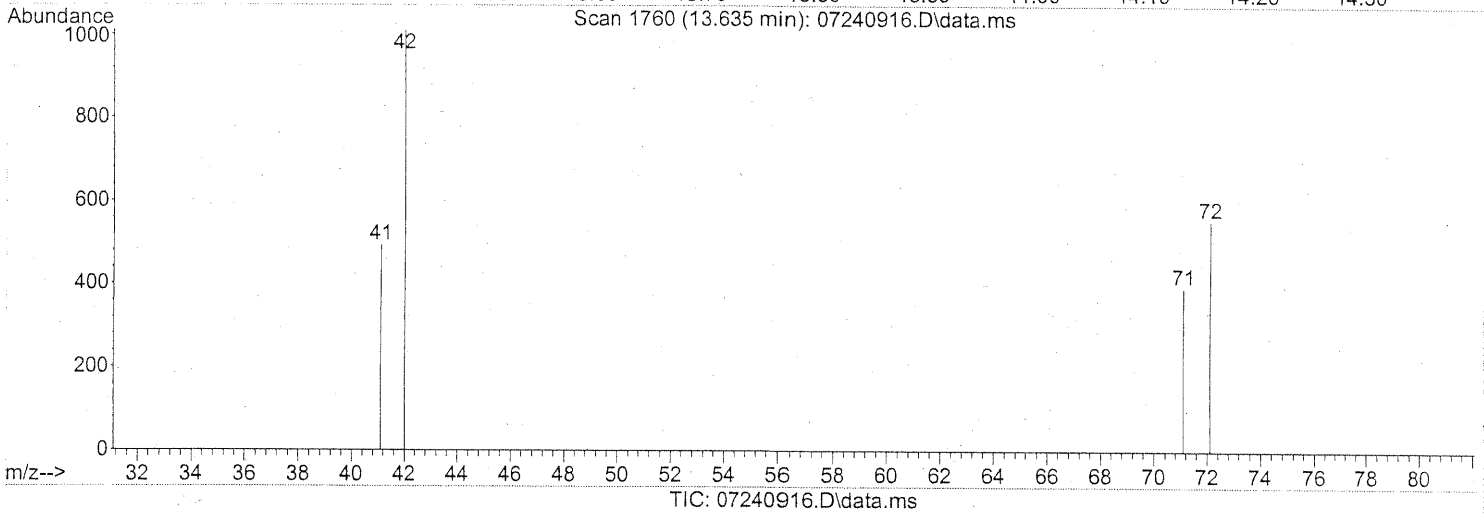
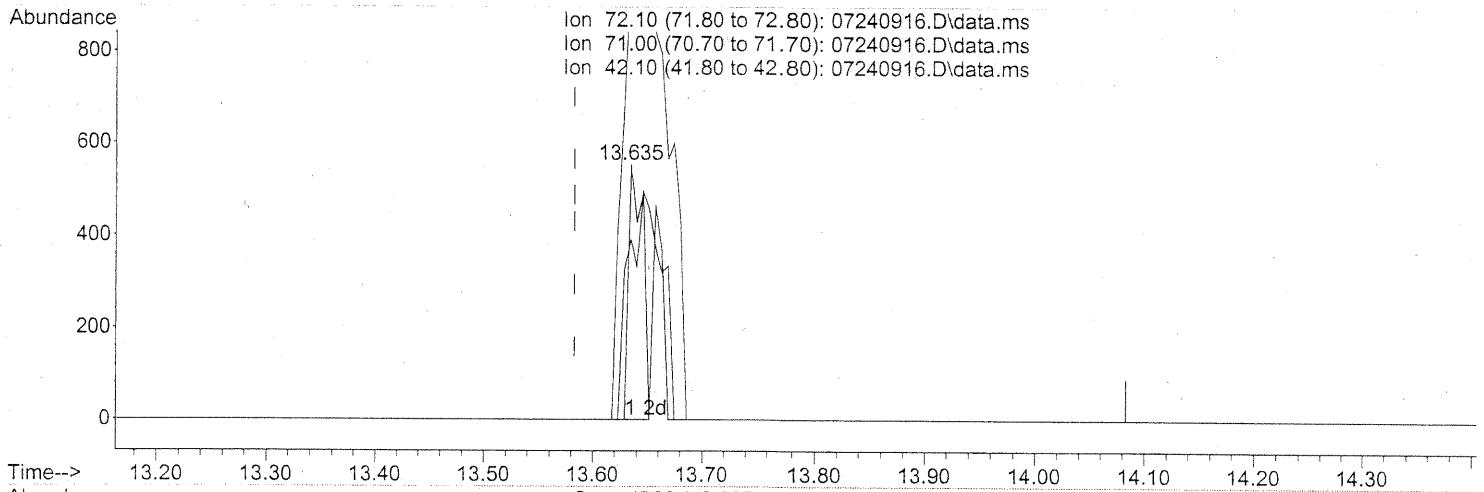
(#) = qualifier out of range (m) = manual integration (+) = signals summed

EM 7/27/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
Data File : 07240916.D
Acq On : 24 Jul 2009 20:46
Operator : EM
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200901/S20-07240914
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 08:54:12 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 08:47:52 2009
Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.635min (+0.051) 0.04ng

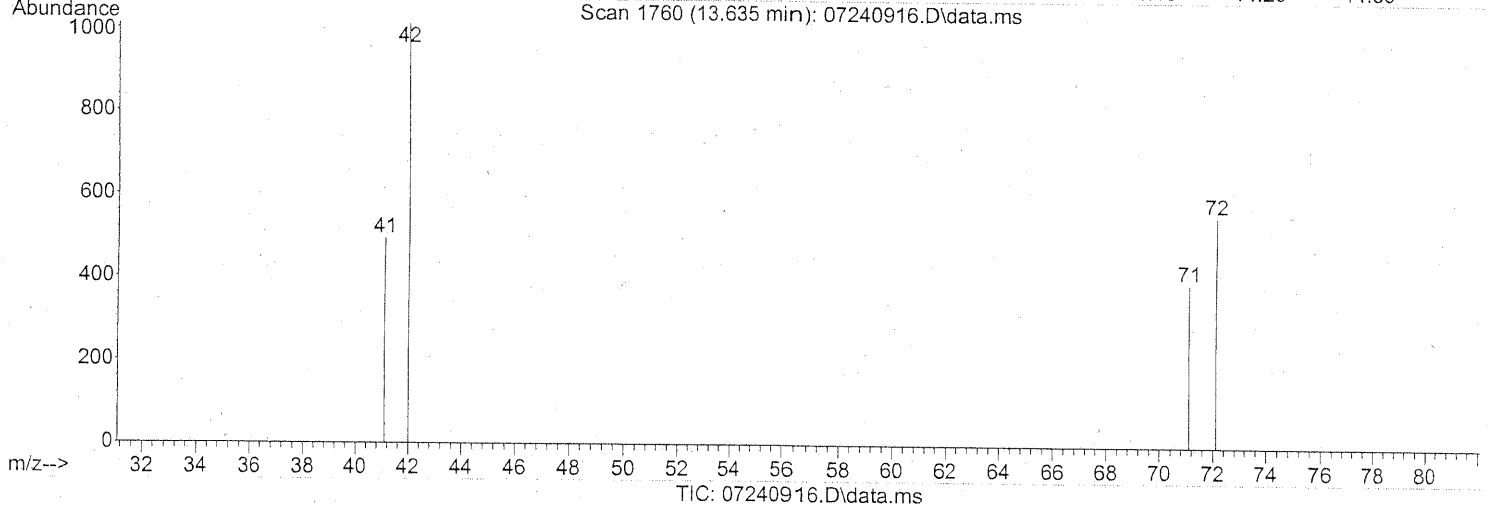
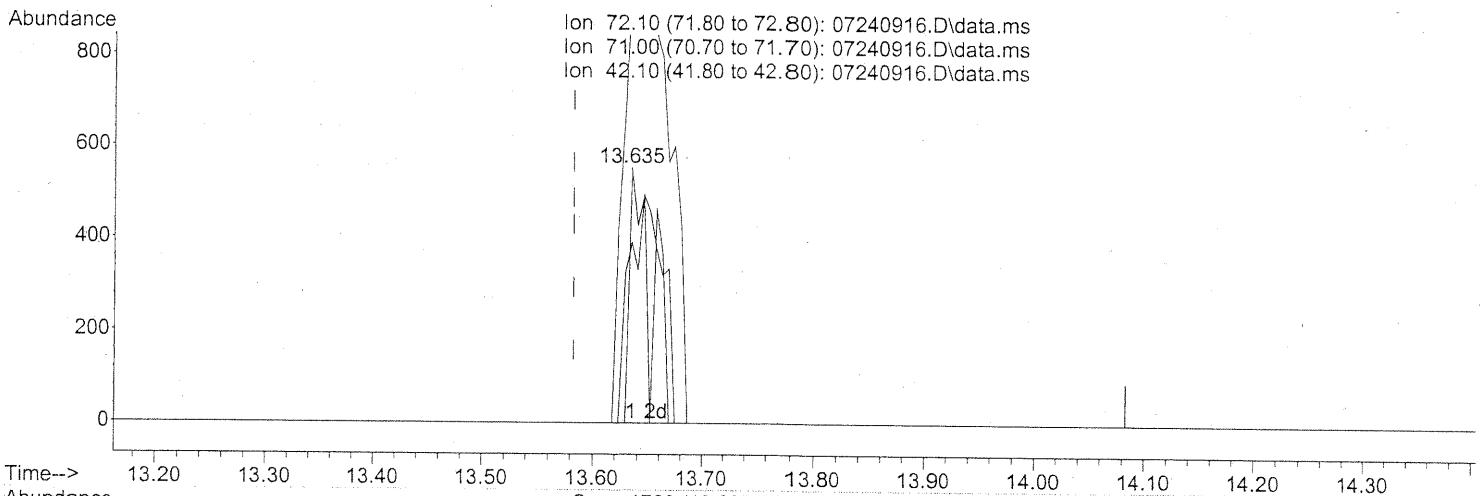
response 505

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	0.00#
42.10	206.50	0.00#
0.00	0.00	0.00

SP

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240916.D
 Acq On : 24 Jul 2009 20:46
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240914
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 08:54:12 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.635min (+0.051) 0.06ng m

response 790

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	0.00#
42.10	206.50	0.00#
0.00	0.00	0.00

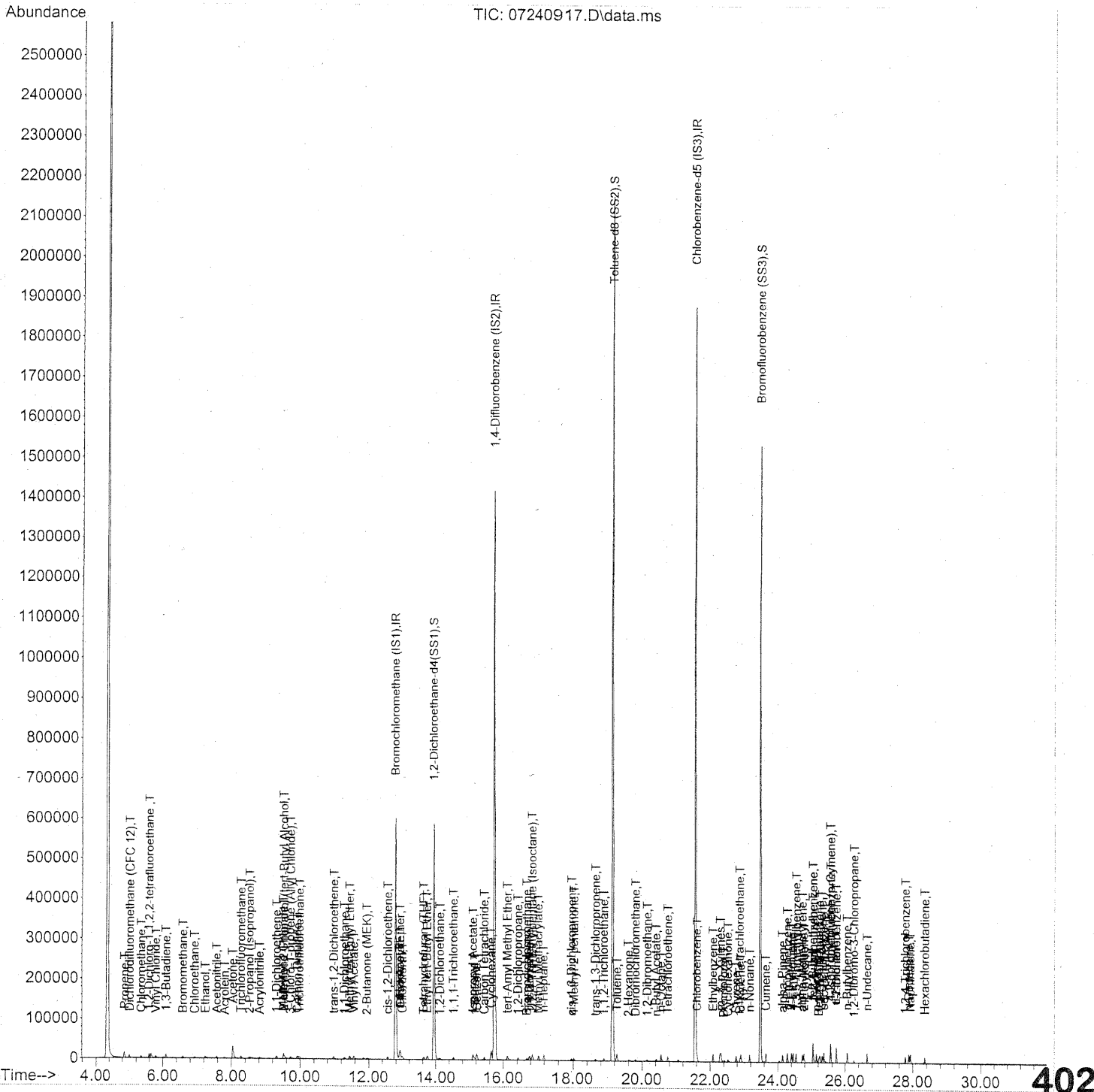
SP → IC

em 7/27/09

— 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
Data File : 07240917.D
Acq On : 24 Jul 2009 21:28
Operator : EM
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-07200901/S20-07240914
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 09:03:38 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 08:47:52 2009
Response via : Initial Calibration



Path : J:\MS09\Data\2009_07\24\
 File : 07240917.D
 Date : 24 Jul 2009 21:28
 Port : EM
 Inj : 0.2ng TO-15 ICAL STD
 S20 : S20-07200901/S20-07240914
 Multiplier : 5 Sample Multiplier: 1

Time: Jul 27 09:03:38 2009
 Method : J:\MS09\Methods\R9072409.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Update : Mon Jul 27 08:47:52 2009
 Run via : Initial Calibration

Internal Standards	R.T.	Q Ion	Response	Conc	Units	Dev (Min)
Bromochloromethane (IS1)	12.80	130	328864	25.000	ng	-0.02
1,4-Difluorobenzene (IS2)	15.74	114	1673819	25.000	ng	-0.01
Chlorobenzene-d5 (IS3)	21.56	82	753097	25.000	ng	0.00
Monitoring Compounds						
1,2-Dichloroethane-d4 (...)	13.95	65	586718	20.383	ng	-0.02
Spiked Amount	25.000		Recovery	=	81.52%	
Toluene-d8 (SS2)	19.15	98	1885003	27.667	ng	0.00
Spiked Amount	25.000		Recovery	=	110.68%	
Bromofluorobenzene (SS3)	23.49	174	550535	28.242	ng	0.00
Spiked Amount	25.000		Recovery	=	112.96%	
Target Compounds						
Propene	4.87	42	4182	0.228	ng	95
Dichlorodifluoromethan...	5.01	85	8498	0.227	ng	95
Chloromethane	5.35	50	6234	0.203	ng	92
1,2-Dichloro-1,1,2,2-t...	5.60	135	5036	0.236	ng	93
Vinyl Chloride	5.80	62	6564	0.187	ng	98
1,3-Butadiene	6.09	54	4965	0.178	ng	95
Bromomethane	6.59	94	3910	0.184	ng	99
Chloroethane	6.93	64	3145	0.204	ng	89
Ethanol	7.24	45	13078m	1.014	ng	
Acetonitrile	7.58	41	6945	0.226	ng	96
Acrolein	7.82	56	2173	0.191	ng	# 75
Acetone	8.05	58	16593	1.043	ng	99
Trichlorofluoromethane	8.28	101	7336	0.203	ng	97
2-Propanol (Isopropanol)	8.53	45	16088	0.325	ng	75
Acrylonitrile	8.82	53	3568	0.150	ng	94
1,1-Dichloroethene	9.32	96	3745	0.210	ng	96
2-Methyl-2-Propanol (t...	9.53	59	17821	0.331	ng	90
Methylene Chloride	9.51	84	4650	0.230	ng	99
3-Chloro-1-propene (Al...	9.72	41	4094	0.157	ng	82
Trichlorotrifluoroethane	9.98	151	3404	0.249	ng	96
Carbon Disulfide	9.92	76	14549	0.229	ng	92
trans-1,2-Dichloroethene	10.99	61	5322	0.200	ng	99
1,1-Dichloroethane	11.30	63	6732	0.189	ng	97
Methyl tert-Butyl Ether	11.45	73	12124	0.199	ng	95
Vinyl Acetate	11.57	86	1167	0.226	ng	# 1
2-Butanone (MEK)	11.95	72	1408m	0.110	ng	
cis-1,2-Dichloroethene	12.57	61	5080	0.197	ng	98
Diisopropyl Ether	12.94	87	3245	0.186	ng	# 89
Ethyl Acetate	12.94	61	1369	0.203	ng	84
n-Hexane	12.92	57	6663	0.209	ng	403

Data Path : J:\MS09\Data\2009_07\24\
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 Acq On : 24 Jul 2009 21:28
 Operator : EM
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 Misc : S20-07200901/S20-07240914
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 09:03:38 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.00	83	6555	0.194	ng	100
34) Tetrahydrofuran (THF)	13.63	72	2160	0.177	ng	# 83
35) Ethyl tert-Butyl Ether	13.74	87	4569	0.179	ng	91
36) 1,2-Dichloroethane	14.13	62	5322	0.181	ng	92
38) 1,1,1-Trichloroethane	14.53	97	6067	0.188	ng	96
39) Isopropyl Acetate	15.11	61	3949	0.328	ng	# 72
40) 1-Butanol	15.17	56	4833	0.243	ng	# 76
41) Benzene	15.23	78	19281	0.222	ng	100
42) Carbon Tetrachloride	15.45	117	4987	0.196	ng	99
43) Cyclohexane	15.65	84	12914	0.384	ng	99
44) tert-Amyl Methyl Ether	16.13	73	10650	0.179	ng	100
45) 1,2-Dichloropropane	16.43	63	3593	0.196	ng	96
46) Bromodichloromethane	16.69	83	4966	0.193	ng	88
47) Trichloroethene	16.77	130	4800	0.250	ng	96
48) 1,4-Dioxane	16.77	88	2438	0.169	ng	94
49) 2,2,4-Trimethylpentane...	16.85	57	16874	0.200	ng	97
50) Methyl Methacrylate	17.03	100	2276	0.313	ng	# 83
51) n-Heptane	17.20	71	4194	0.197	ng	95
52) cis-1,3-Dichloropropene	17.95	75	4994	0.158	ng	86
53) 4-Methyl-2-pentanone	18.03	58	2313	0.136	ng	83
54) trans-1,3-Dichloropropene	18.65	75	4296	0.146	ng	84
55) 1,1,2-Trichloroethane	18.88	97	3458	0.201	ng	92
58) Toluene	19.28	91	19125	0.260	ng	99
59) 2-Hexanone	19.61	43	5022	0.133	ng	87
60) Dibromochloromethane	19.82	129	4160	0.274	ng	95
61) 1,2-Dibromoethane	20.15	107	3924	0.239	ng	100
62) n-Butyl Acetate	20.42	43	6641	0.156	ng	85
63) n-Octane	20.56	57	3461	0.226	ng	96
64) Tetrachloroethene	20.75	166	4582	0.280	ng	99
65) Chlorobenzene	21.62	112	11897	0.277	ng	97
66) Ethylbenzene	22.09	91	19198	0.239	ng	97
67) m- & p-Xylenes	22.31	91	30071	0.451	ng	98
68) Bromoform	22.41	173	2828	0.220	ng	86
69) Styrene	22.77	104	10358	0.236	ng	97
70) o-Xylene	22.92	91	15317	0.232	ng	97
71) n-Nonane	23.17	43	7095	0.197	ng	98
72) 1,1,2,2-Tetrachloroethane	22.88	83	5693	0.209	ng	94
74) Cumene	23.65	105	20048	0.246	ng	97
75) alpha-Pinene	24.15	93	8627	0.215	ng	91
76) n-Propylbenzene	24.28	91	23654	0.230	ng	98
77) 3-Ethyltoluene	24.40	105	18766	0.245	ng	100
78) 4-Ethyltoluene	24.46	105	19523	0.261	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	15845	0.248	ng	100

404

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240917.D
 Acq On : 24 Jul 2009 21:28
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240914
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 09:03:38 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

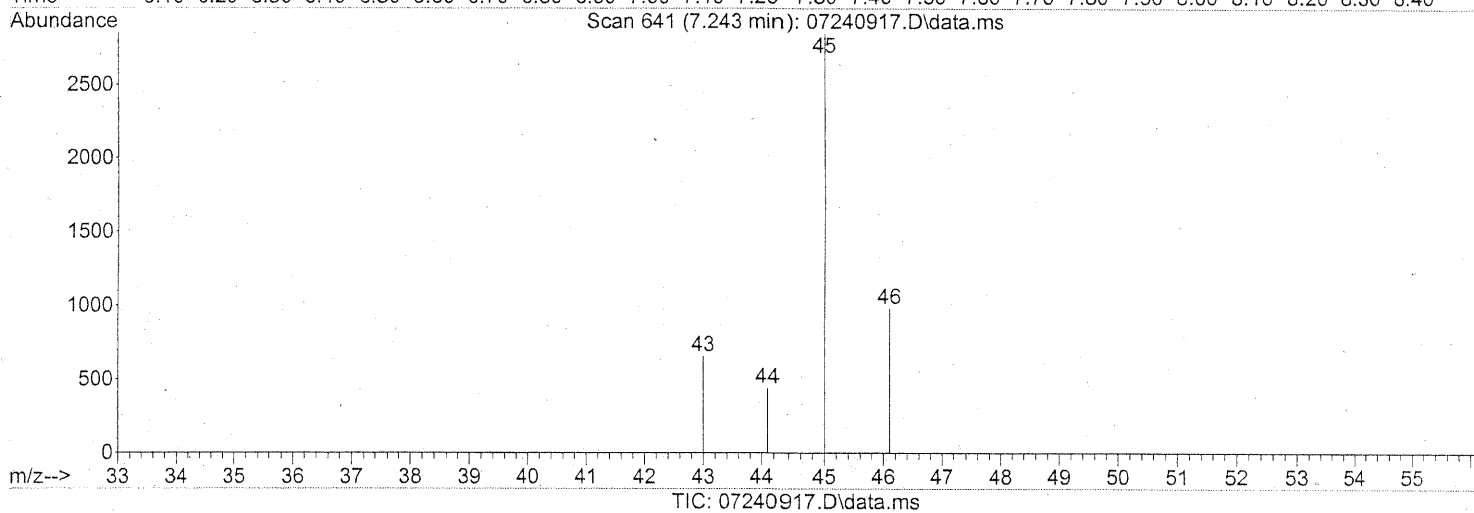
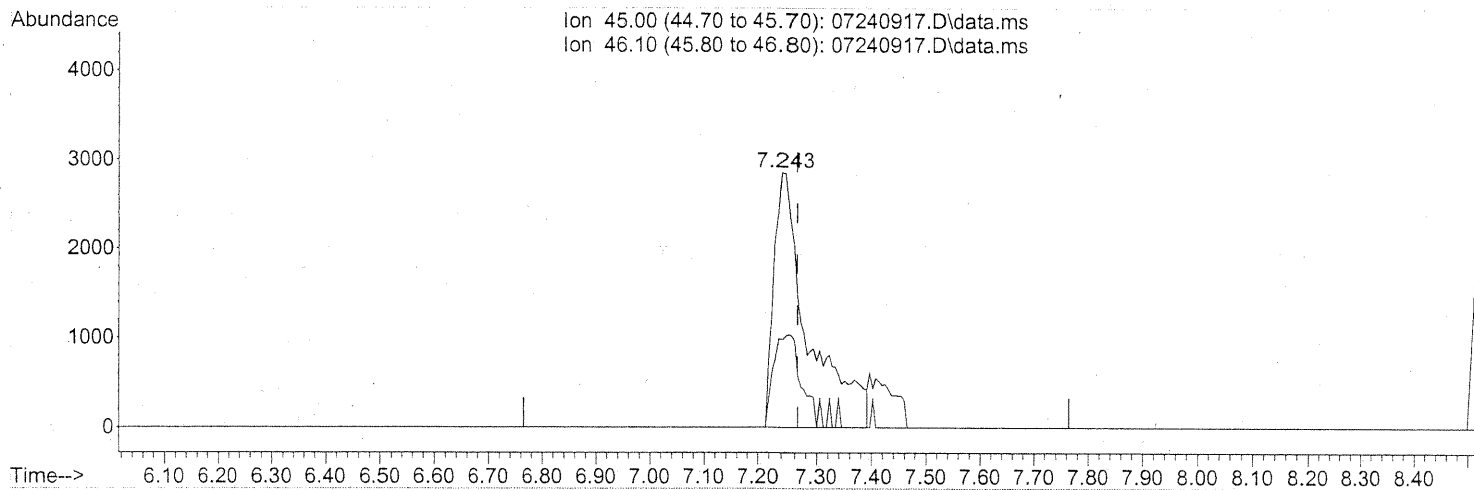
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	7768	0.238	ng	94
81) 2-Ethyltoluene	24.79	105	18942	0.238	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	15843	0.220	ng	98
83) n-Decane	25.15	57	7832	0.200	ng	99
84) Benzyl Chloride	25.21	91	9467	0.175	ng	98
85) 1,3-Dichlorobenzene	25.25	146	9317	0.285	ng	98
86) 1,4-Dichlorobenzene	25.32	146	9326	0.278	ng	98
87) sec-Butylbenzene	25.38	105	21444	0.244	ng	99
88) 4-Isopropyltoluene (p-...	25.56	119	20027	0.231	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	16008	0.228	ng	96
90) 1,2-Dichlorobenzene	25.75	146	8598	0.263	ng	95
91) d-Limonene	25.74	68	5634	0.215	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.26	157	2268	0.225	ng	86
93) n-Undecane	26.65	57	7975	0.215	ng	98
94) 1,2,4-Trichlorobenzene	27.79	180	6470	0.332	ng	97
95) Naphthalene	27.94	128	21175	0.288	ng	97
96) n-Dodecane	27.89	57	7590	0.186	ng	99
97) Hexachlorobutadiene	28.36	225	3560	0.291	ng	98
98) Cyclohexanone	22.53	55	4421	0.193	ng	93
99) tert-Butylbenzene	25.05	119	16104	0.231	ng	100
100) n-Butylbenzene	26.06	91	16737	0.227	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240917.D
 Acq On : 24 Jul 2009 21:28
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240914
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 09:01:12 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.243min (-0.023) 0.88ng

response 11292

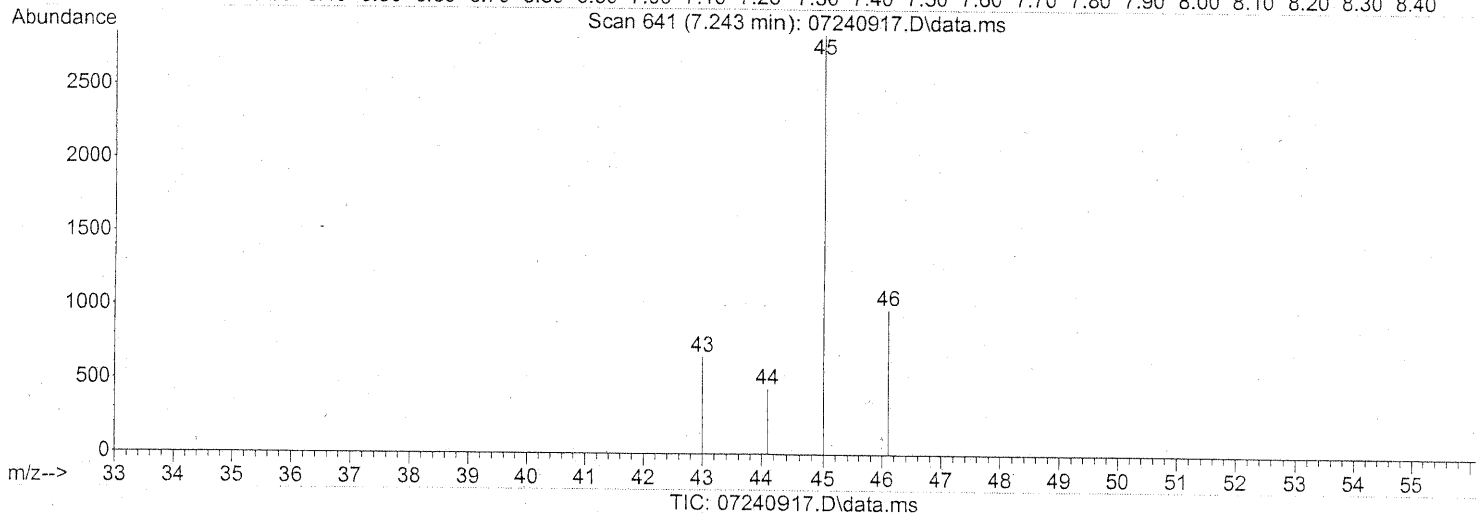
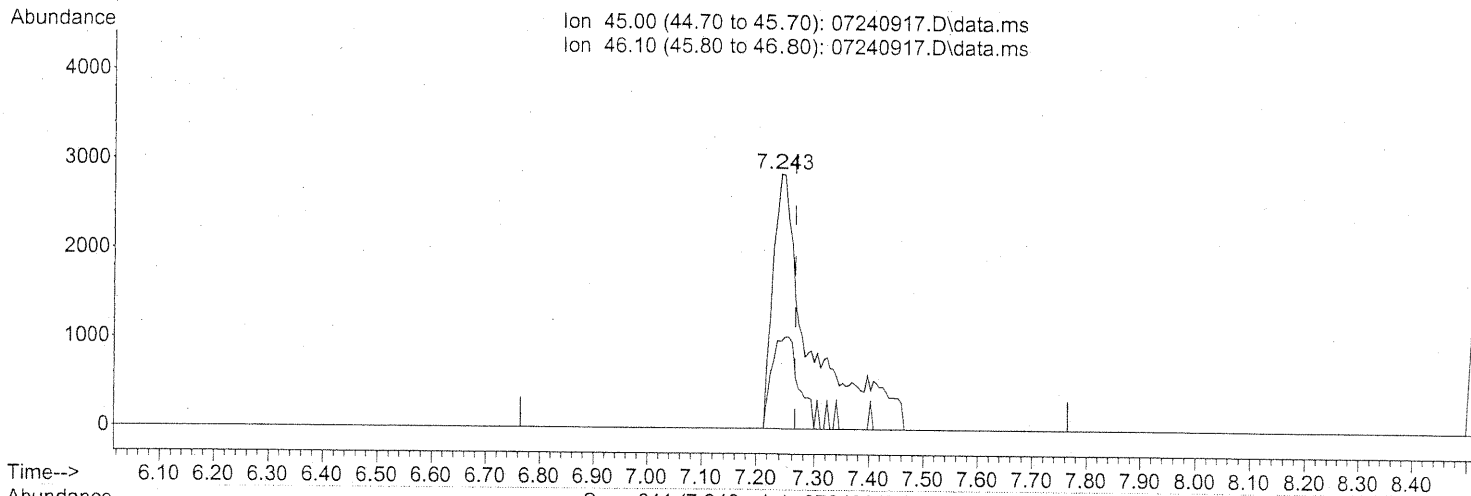
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	28.83
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240917.D
 Acq On : 24 Jul 2009 21:28
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240914
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 09:01:12 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.243min (-0.023) 1.01ng m

response 13078

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	24.90
0.00	0.00	0.00
0.00	0.00	0.00

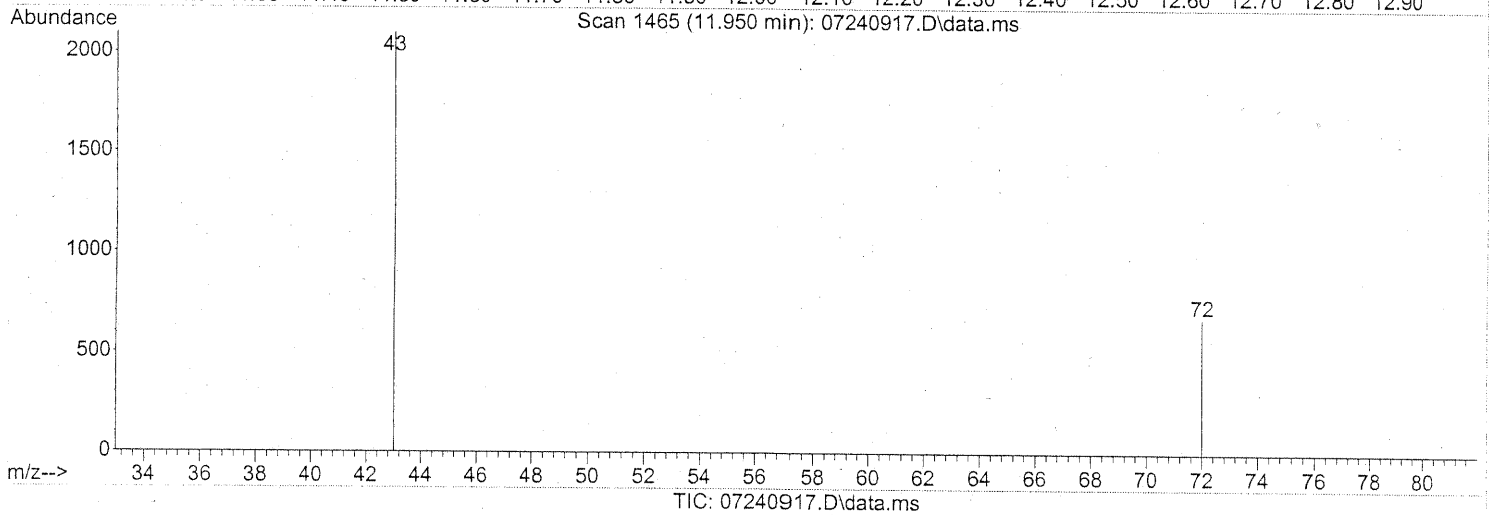
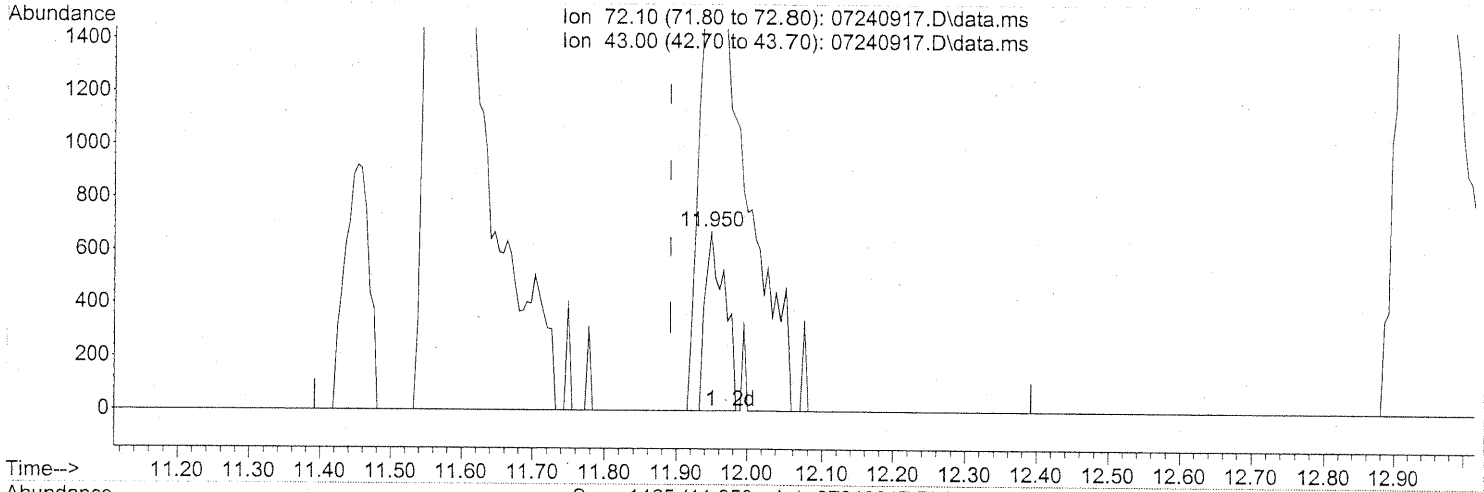
PT → IC
 em 7/27/09
 — 7/27/09

407

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
Data File : 07240917.D
Acq On : 24 Jul 2009 21:28
Operator : EM
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-07200901/S20-07240914
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 09:01:48 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 08:47:52 2009
Response via : Initial Calibration



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

11.950min (+0.057) 0.10ng

response 1295

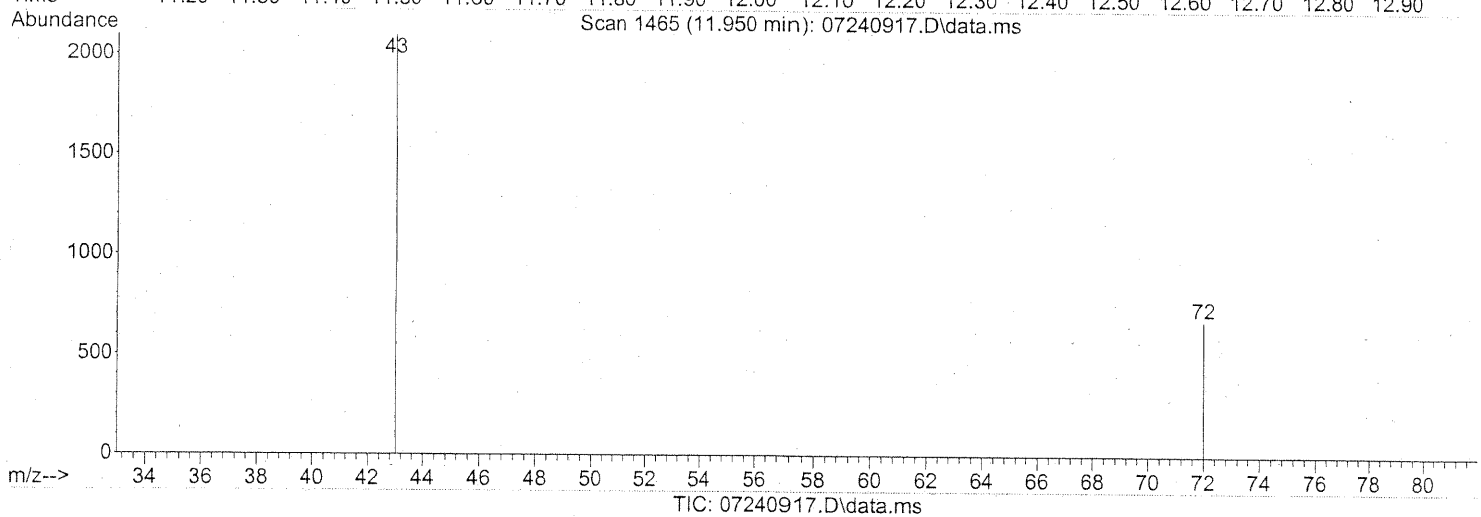
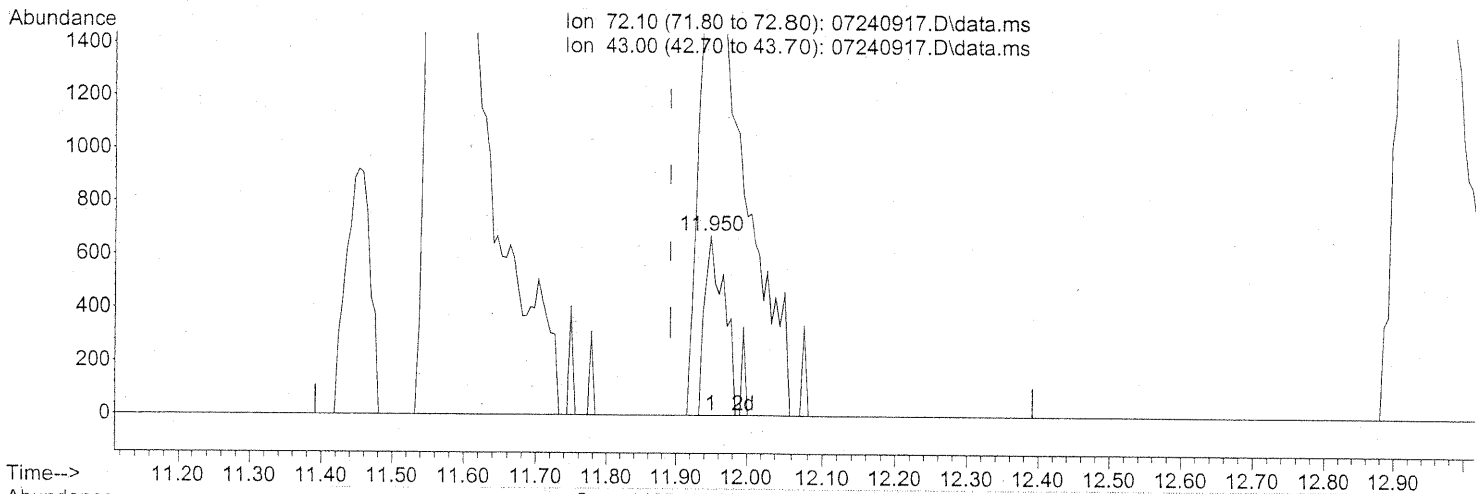
Ion	Exp%	Act%
72.10	100	100
43.00	366.50	630.42#
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
Data File : 07240917.D
Acq On : 24 Jul 2009 21:28
Operator : EM
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-07200901/S20-07240914
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 27 09:01:48 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 08:47:52 2009
Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)
11.950min (+0.057) 0.11ng m

response 1408

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	579.83#
0.00	0.00	0.00
0.00	0.00	0.00

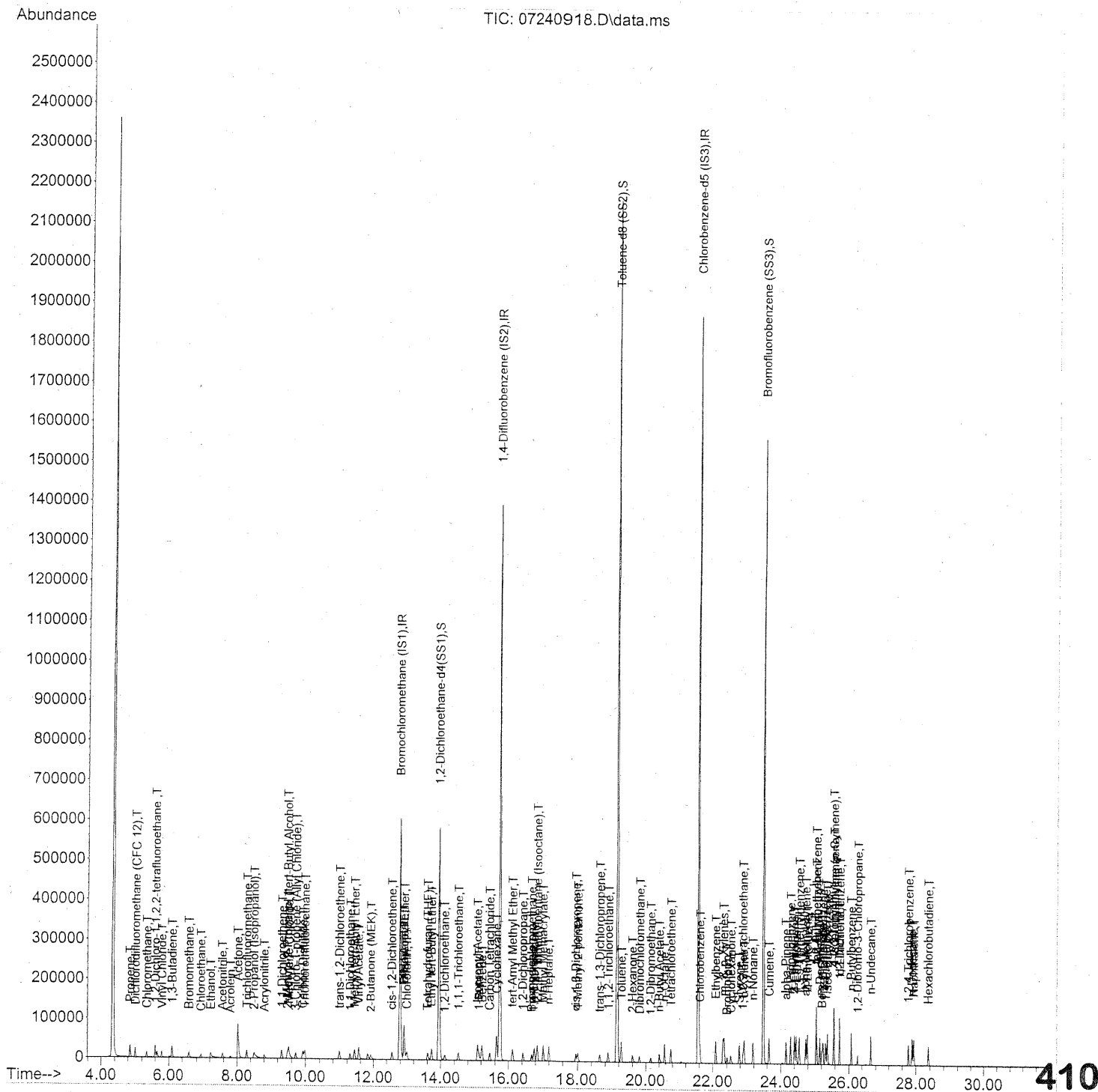
SP → IC

em 7/27/09

— 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240918.D
 Acq On : 24 Jul 2009 22:10
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:04:51 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240918.D
 Acq On : 24 Jul 2009 22:10
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:04:51 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	329340	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.74	114	1665218	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.56	82	753779	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	584701	20.284	ng	-0.02
Spiked Amount	25.000		Recovery	=	81.12%	
57) Toluene-d8 (SS2)	19.14	98	1899111	27.849	ng	0.00
Spiked Amount	25.000		Recovery	=	111.40%	
73) Bromofluorobenzene (SS3)	23.49	174	557427	28.570	ng	0.00
Spiked Amount	25.000		Recovery	=	114.28%	

Target Compounds

						Qvalue
2) Propene	4.86	42	9837	0.535	ng	98
3) Dichlorodifluoromethan...	5.01	85	24918	0.666	ng	98
4) Chloromethane	5.35	50	17598	0.571	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	14097	0.661	ng	100
6) Vinyl Chloride	5.80	62	19155	0.544	ng	99
7) 1,3-Butadiene	6.09	54	14858	0.530	ng	98
8) Bromomethane	6.59	94	11112	0.523	ng	97
9) Chloroethane	6.93	64	9653	0.626	ng	97
10) Ethanol	7.23	45	35164	2.724	ng	89
11) Acetonitrile	7.57	41	17104	0.556	ng	95
12) Acrolein	7.81	56	5628	0.494	ng	99
13) Acetone	8.03	58	44204	2.776	ng	95
14) Trichlorofluoromethane	8.29	101	21437	0.592	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	47651	0.962	ng	93
16) Acrylonitrile	8.80	53	11247	0.472	ng	100
17) 1,1-Dichloroethene	9.32	96	11481	0.643	ng	93
18) 2-Methyl-2-Propanol (t...	9.48	59	51598	0.957	ng	97
19) Methylene Chloride	9.52	84	11900	0.589	ng	97
20) 3-Chloro-1-propene (Al...	9.72	41	12510	0.480	ng	95
21) Trichlorotrifluoroethane	9.98	151	10295	0.753	ng	96
22) Carbon Disulfide	9.92	76	40272	0.632	ng	99
23) trans-1,2-Dichloroethene	10.98	61	15661	0.587	ng	100
24) 1,1-Dichloroethane	11.30	63	19289	0.542	ng	97
25) Methyl tert-Butyl Ether	11.43	73	33783	0.554	ng	100
26) Vinyl Acetate	11.56	86	6442	1.246	ng	# 76
27) 2-Butanone (MEK)	11.92	72	5956	0.463	ng	# 71
28) cis-1,2-Dichloroethene	12.56	61	15696	0.608	ng	99
29) Diisopropyl Ether	12.93	87	9939	0.569	ng	# 86
30) Ethyl Acetate	12.92	61	6490	0.960	ng	91
31) n-Hexane	12.92	57	18821	0.589	ng	91

411

Em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240918.D
 Acq On : 24 Jul 2009 22:10
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:04:51 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.00	83	19411	0.573	ng	99
34) Tetrahydrofuran (THF)	13.61	72	7085	0.581	ng	98
35) Ethyl tert-Butyl Ether	13.73	87	13668	0.534	ng	99
36) 1,2-Dichloroethane	14.12	62	15246	0.519	ng	97
38) 1,1,1-Trichloroethane	14.53	97	17781	0.554	ng	99
39) Isopropyl Acetate	15.09	61	12034	1.005	ng	# 79
40) 1-Butanol	15.13	56	15808	0.800	ng	# 63
41) Benzene	15.23	78	48455	0.562	ng	98
42) Carbon Tetrachloride	15.45	117	15143	0.599	ng	97
43) Cyclohexane	15.65	84	37034	1.106	ng	99
44) tert-Amyl Methyl Ether	16.12	73	31446	0.533	ng	98
45) 1,2-Dichloropropane	16.43	63	10779	0.590	ng	100
46) Bromodichloromethane	16.69	83	14535	0.568	ng	99
47) Trichloroethene	16.77	130	13295	0.696	ng	100
48) 1,4-Dioxane	16.74	88	8546	0.597	ng	94
49) 2,2,4-Trimethylpentane...	16.86	57	47082	0.560	ng	100
50) Methyl Methacrylate	17.03	100	8230	1.137	ng	99
51) n-Heptane	17.20	71	11952	0.566	ng	97
52) cis-1,3-Dichloropropene	17.95	75	15640	0.498	ng	97
53) 4-Methyl-2-pentanone	18.00	58	8497	0.500	ng	99
54) trans-1,3-Dichloropropene	18.64	75	14742	0.503	ng	100
55) 1,1,2-Trichloroethane	18.89	97	10531	0.616	ng	97
58) Toluene	19.28	91	51839	0.703	ng	98
59) 2-Hexanone	19.60	43	18758	0.496	ng	98
60) Dibromochloromethane	19.82	129	12206	0.804	ng	99
61) 1,2-Dibromoethane	20.15	107	11805	0.719	ng	98
62) n-Butyl Acetate	20.40	43	22510	0.528	ng	94
63) n-Octane	20.56	57	9494	0.619	ng	97
64) Tetrachloroethene	20.75	166	13289	0.811	ng	97
65) Chlorobenzene	21.62	112	32601	0.759	ng	98
66) Ethylbenzene	22.09	91	52949	0.659	ng	99
67) m- & p-Xylenes	22.31	91	83457	1.250	ng	99
68) Bromoform	22.41	173	9717	0.755	ng	95
69) Styrene	22.77	104	31618	0.719	ng	99
70) o-Xylene	22.92	91	43131	0.651	ng	99
71) n-Nonane	23.17	43	20750	0.575	ng	98
72) 1,1,2,2-Tetrachloroethane	22.88	83	17150	0.630	ng	98
74) Cumene	23.66	105	55902	0.685	ng	99
75) alpha-Pinene	24.15	93	25355	0.631	ng	99
76) n-Propylbenzene	24.28	91	66921	0.651	ng	98
77) 3-Ethyltoluene	24.40	105	54264	0.707	ng	99
78) 4-Ethyltoluene	24.46	105	55165	0.735	ng	98
79) 1,3,5-Trimethylbenzene	24.55	105	45071	0.704	ng	99

412

Em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240918.D
 Acq On : 24 Jul 2009 22:10
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:04:51 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	23316	0.714	ng	98
81) 2-Ethyltoluene	24.79	105	54511	0.685	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	44372	0.616	ng	95
83) n-Decane	25.15	57	22804	0.582	ng	97
84) Benzyl Chloride	25.21	91	29785	0.551	ng	98
85) 1,3-Dichlorobenzene	25.25	146	26250	0.803	ng	98
86) 1,4-Dichlorobenzene	25.33	146	26695	0.795	ng	99
87) sec-Butylbenzene	25.38	105	62236	0.707	ng	100
88) 4-Isopropyltoluene (p-...	25.56	119	57177	0.660	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	46307	0.658	ng	98
90) 1,2-Dichlorobenzene	25.75	146	25489	0.779	ng	98
91) d-Limonene	25.74	68	16560	0.633	ng	96
92) 1,2-Dibromo-3-Chloropr...	26.26	157	7550	0.748	ng	91
93) n-Undecane	26.65	57	22368	0.602	ng	98
94) 1,2,4-Trichlorobenzene	27.79	180	18140	0.930	ng	98
95) Naphthalene	27.94	128	59757	0.813	ng	98
96) n-Dodecane	27.89	57	20863	0.510	ng	98
97) Hexachlorobutadiene	28.36	225	10113	0.825	ng	99
98) Cyclohexanone	22.53	55	11931	0.519	ng	98
99) tert-Butylbenzene	25.05	119	46488	0.666	ng	99
100) n-Butylbenzene	26.07	91	49384	0.671	ng	98

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

EM 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240919.D
 Acq On : 24 Jul 2009 22:51
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:06:31 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	327292	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1646564	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.56	82	743382	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.95	65	576070	20.109	ng	-0.02
Spiked Amount	25.000		Recovery	=	80.44%	
57) Toluene-d8 (SS2)	19.15	98	1869459	27.797	ng	0.00
Spiked Amount	25.000		Recovery	=	111.20%	
73) Bromofluorobenzene (SS3)	23.49	174	547389	28.448	ng	0.00
Spiked Amount	25.000		Recovery	=	113.80%	

Target Compounds						Qvalue
2) Propene	4.85	42	17079	0.935	ng	99
3) Dichlorodifluoromethan...	5.00	85	43452	1.169	ng	100
4) Chloromethane	5.34	50	31336	1.023	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	24923	1.175	ng	99
6) Vinyl Chloride	5.80	62	33345	0.952	ng	99
7) 1,3-Butadiene	6.09	54	26645	0.957	ng	99
8) Bromomethane	6.58	94	20101	0.951	ng	99
9) Chloroethane	6.93	64	16861	1.100	ng	100
10) Ethanol	7.22	45	64309	5.012	ng	93
11) Acetonitrile	7.56	41	32117	1.051	ng	98
12) Acrolein	7.79	56	10444	0.923	ng	99
13) Acetone	8.01	58	76166	4.813	ng	96
14) Trichlorofluoromethane	8.28	101	37494	1.043	ng	99
15) 2-Propanol (Isopropanol)	8.48	45	88329	1.794	ng	95
16) Acrylonitrile	8.79	53	22051	0.931	ng	100
17) 1,1-Dichloroethene	9.32	96	20370	1.149	ng	96
18) 2-Methyl-2-Propanol (t...	9.46	59	95792	1.788	ng	96
19) Methylene Chloride	9.52	84	21280	1.059	ng	98
20) 3-Chloro-1-propene (Al...	9.72	41	22860	0.883	ng	99
21) Trichlorotrifluoroethane	9.98	151	17968	1.323	ng	98
22) Carbon Disulfide	9.92	76	72643	1.146	ng	99
23) trans-1,2-Dichloroethene	10.98	61	28868	1.089	ng	99
24) 1,1-Dichloroethane	11.30	63	34703	0.981	ng	99
25) Methyl tert-Butyl Ether	11.42	73	60467	0.999	ng	99
26) Vinyl Acetate	11.55	86	13708	2.668	ng	# 89
27) 2-Butanone (MEK)	11.90	72	11505	0.899	ng	# 81
28) cis-1,2-Dichloroethene	12.56	61	27471	1.071	ng	99
29) Diisopropyl Ether	12.91	87	17730	1.022	ng	# 90
30) Ethyl Acetate	12.91	61	11779	1.753	ng	98
31) n-Hexane	12.92	57	33637	1.059	ng	98

415

em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240919.D
 Acq On : 24 Jul 2009 22:51
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:06:31 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.01	83	34967	1.039	ng	100
34) Tetrahydrofuran (THF)	13.61	72	12609	1.040	ng	97
35) Ethyl tert-Butyl Ether	13.72	87	25251	0.993	ng	98
36) 1,2-Dichloroethane	14.13	62	27525	0.942	ng	99
38) 1,1,1-Trichloroethane	14.53	97	31672	0.998	ng	99
39) Isopropyl Acetate	15.08	61	22324	1.885	ng	# 76
40) 1-Butanol	15.11	56	32693	1.674	ng	# 72
41) Benzene	15.23	78	84648	0.993	ng	99
42) Carbon Tetrachloride	15.45	117	27854	1.115	ng	97
43) Cyclohexane	15.65	84	65846	1.988	ng	100
44) tert-Amyl Methyl Ether	16.11	73	56898	0.975	ng	98
45) 1,2-Dichloropropane	16.43	63	18749	1.039	ng	96
46) Bromodichloromethane	16.69	83	26712	1.056	ng	98
47) Trichloroethene	16.77	130	23418	1.239	ng	96
48) 1,4-Dioxane	16.74	88	16266	1.148	ng	100
49) 2,2,4-Trimethylpentane...	16.85	57	83368	1.003	ng	100
50) Methyl Methacrylate	17.02	100	15665	2.189	ng	96
51) n-Heptane	17.20	71	21598	1.034	ng	99
52) cis-1,3-Dichloropropene	17.95	75	28213	0.908	ng	99
53) 4-Methyl-2-pentanone	17.99	58	16238	0.967	ng	95
54) trans-1,3-Dichloropropene	18.65	75	28425	0.982	ng	98
55) 1,1,2-Trichloroethane	18.88	97	19156	1.133	ng	99
58) Toluene	19.28	91	92525	1.273	ng	100
59) 2-Hexanone	19.59	43	39272	1.052	ng	94
60) Dibromochloromethane	19.82	129	22994	1.536	ng	98
61) 1,2-Dibromoethane	20.15	107	22165	1.369	ng	98
62) n-Butyl Acetate	20.40	43	44760	1.065	ng	98
63) n-Octane	20.56	57	17824	1.178	ng	98
64) Tetrachloroethene	20.75	166	23618	1.462	ng	99
65) Chlorobenzene	21.62	112	59115	1.395	ng	99
66) Ethylbenzene	22.09	91	97047	1.225	ng	99
67) m- & p-Xylenes	22.32	91	151316	2.298	ng	100
68) Bromoform	22.41	173	17388	1.371	ng	99
69) Styrene	22.77	104	57768	1.331	ng	98
70) o-Xylene	22.92	91	78242	1.198	ng	100
71) n-Nonane	23.17	43	37032	1.040	ng	99
72) 1,1,2,2-Tetrachloroethane	22.89	83	32853	1.224	ng	98
74) Cumene	23.65	105	102817	1.278	ng	98
75) alpha-Pinene	24.15	93	47090	1.188	ng	97
76) n-Propylbenzene	24.28	91	122584	1.210	ng	99
77) 3-Ethyltoluene	24.40	105	101183	1.337	ng	99
78) 4-Ethyltoluene	24.46	105	100742	1.362	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	83227	1.318	ng	99

416

EM 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240919.D
 Acq On : 24 Jul 2009 22:51
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:06:31 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

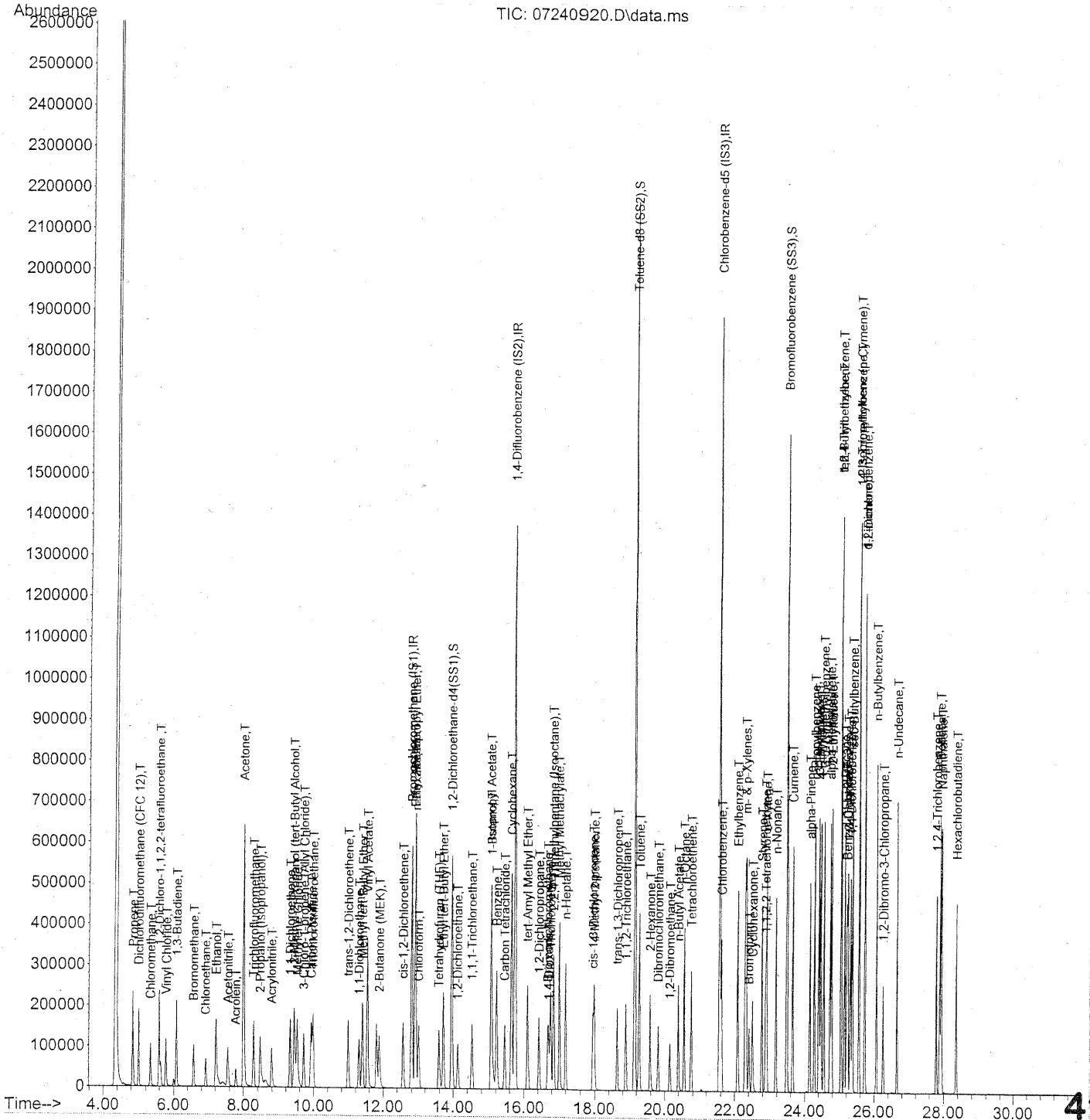
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	45150	1.401	ng	99
81) 2-Ethyltoluene	24.79	105	101484	1.293	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	83397	1.173	ng	97
83) n-Decane	25.15	57	41807	1.083	ng	99
84) Benzyl Chloride	25.21	91	61025	1.144	ng	99
85) 1,3-Dichlorobenzene	25.25	146	48782	1.513	ng	99
86) 1,4-Dichlorobenzene	25.33	146	50266	1.519	ng	99
87) sec-Butylbenzene	25.38	105	113919	1.313	ng	100
88) 4-Isopropyltoluene (p-...	25.56	119	106113	1.242	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	86622	1.248	ng	98
90) 1,2-Dichlorobenzene	25.74	146	46477	1.440	ng	98
91) d-Limonene	25.74	68	31710	1.228	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.26	157	15129	1.520	ng	94
93) n-Undecane	26.65	57	42142	1.150	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	33915	1.763	ng	98
95) Naphthalene	27.94	128	113653	1.568	ng	99
96) n-Dodecane	27.89	57	40667	1.008	ng	99
97) Hexachlorobutadiene	28.36	225	19096	1.580	ng	97
98) Cyclohexanone	22.52	55	24258	1.071	ng	99
99) tert-Butylbenzene	25.05	119	86238	1.253	ng	99
100) n-Butylbenzene	26.06	91	92071	1.268	ng	99

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

em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240920.D
 Acq On : 24 Jul 2009 23:33
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:09:44 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240920.D
 Acq On : 24 Jul 2009 23:33
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:09:44 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.81	130	326195	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.75	114	1643427	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.56	82	747557	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.96	65	569881	19.960	ng	-0.01
Spiked Amount	25.000		Recovery	=	79.84%	
57) Toluene-d8 (SS2)	19.15	98	1860715	27.513	ng	0.00
Spiked Amount	25.000		Recovery	=	110.04%	
73) Bromofluorobenzene (SS3)	23.49	174	575147	29.724	ng	0.00
Spiked Amount	25.000		Recovery	=	118.88%	

Target Compounds

						Qvalue
2) Propene	4.84	42	100231	5.503	ng	99
3) Dichlorodifluoromethan...	5.00	85	197528	5.330	ng	99
4) Chloromethane	5.33	50	132785	4.350	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	107697	5.095	ng	100
6) Vinyl Chloride	5.79	62	149294	4.278	ng	98
7) 1,3-Butadiene	6.08	54	121474	4.378	ng	99
8) Bromomethane	6.57	94	88675	4.211	ng	99
9) Chloroethane	6.92	64	77153	5.051	ng	100
10) Ethanol	7.23	45	340925m	26.661	ng	
11) Acetonitrile	7.56	41	149821	4.918	ng	100
12) Acrolein	7.78	56	50422	4.473	ng	98
13) Acetone	8.00	58	345023	21.874	ng	98
14) Trichlorofluoromethane	8.28	101	173532	4.842	ng	97
15) 2-Propanol (Isopropanol)	8.47	45	318940m	6.500	ng	
16) Acrylonitrile	8.79	53	111871	4.740	ng	99
17) 1,1-Dichloroethene	9.32	96	91435	5.173	ng	99
18) 2-Methyl-2-Propanol (t...	9.43	59	444746	8.331	ng	98
19) Methylene Chloride	9.53	84	93118	4.650	ng	98
20) 3-Chloro-1-propene (Al...	9.72	41	111171	4.309	ng	100
21) Trichlorotrifluoroethane	9.98	151	82672	6.108	ng	96
22) Carbon Disulfide	9.93	76	332118	5.259	ng	98
23) trans-1,2-Dichloroethene	10.99	61	130924	4.955	ng	99
24) 1,1-Dichloroethane	11.30	63	159584	4.529	ng	100
25) Methyl tert-Butyl Ether	11.40	73	288071	4.774	ng	99
26) Vinyl Acetate	11.54	86	77801	15.196	ng	97
27) 2-Butanone (MEK)	11.89	72	62948	4.936	ng	95
28) cis-1,2-Dichloroethene	12.57	61	128052	5.011	ng	99
29) Diisopropyl Ether	12.91	87	82524	4.771	ng	97
30) Ethyl Acetate	12.90	61	64788	9.675	ng	100
31) n-Hexane	12.92	57	157886	4.989	ng	

419

Em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240920.D
 Acq On : 24 Jul 2009 23:33
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:09:44 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	158964	4.741	ng	100
34) Tetrahydrofuran (THF)	13.59	72	61404	5.081	ng	97
35) Ethyl tert-Butyl Ether	13.71	87	116176	4.585	ng	98
36) 1,2-Dichloroethane	14.13	62	128076	4.399	ng	99
38) 1,1,1-Trichloroethane	14.53	97	147142	4.645	ng	100
39) Isopropyl Acetate	15.07	61	112518	9.519	ng	# 79
40) 1-Butanol	15.08	56	180216	9.245	ng	79
41) Benzene	15.23	78	381716	4.485	ng	99
42) Carbon Tetrachloride	15.46	117	129732	5.203	ng	99
43) Cyclohexane	15.66	84	307544	9.305	ng	99
44) tert-Amyl Methyl Ether	16.10	73	272209	4.673	ng	99
45) 1,2-Dichloropropane	16.43	63	89817	4.986	ng	100
46) Bromodichloromethane	16.69	83	128175	5.076	ng	99
47) Trichloroethene	16.77	130	106445	5.643	ng	99
48) 1,4-Dioxane	16.72	88	77468	5.480	ng	100
49) 2,2,4-Trimethylpentane...	16.85	57	389436	4.693	ng	100
50) Methyl Methacrylate	17.02	100	81077	11.353	ng	100
51) n-Heptane	17.21	71	101728	4.878	ng	98
52) cis-1,3-Dichloropropene	17.95	75	141308	4.559	ng	100
53) 4-Methyl-2-pentanone	17.99	58	86254	5.146	ng	97
54) trans-1,3-Dichloropropene	18.64	75	147653	5.109	ng	99
55) 1,1,2-Trichloroethane	18.88	97	90610	5.369	ng	98
58) Toluene	19.28	91	429074	5.871	ng	99
59) 2-Hexanone	19.58	43	208001	5.543	ng	98
60) Dibromochloromethane	19.82	129	111297	7.395	ng	100
61) 1,2-Dibromoethane	20.15	107	106113	6.517	ng	99
62) n-Butyl Acetate	20.39	43	233900	5.535	ng	99
63) n-Octane	20.56	57	83987	5.522	ng	98
64) Tetrachloroethene	20.75	166	110068	6.776	ng	99
65) Chlorobenzene	21.62	112	275773	6.471	ng	100
66) Ethylbenzene	22.09	91	467911	5.873	ng	100
67) m- & p-Xylenes	22.32	91	737498	11.136	ng	100
68) Bromoform	22.41	173	91102	7.142	ng	100
69) Styrene	22.77	104	296596	6.797	ng	99
70) o-Xylene	22.92	91	382208	5.820	ng	100
71) n-Nonane	23.17	43	185939	5.195	ng	98
72) 1,1,2,2-Tetrachloroethane	22.88	83	166076	6.154	ng	99
74) Cumene	23.65	105	492420	6.086	ng	100
75) alpha-Pinene	24.15	93	236398	5.931	ng	99
76) n-Propylbenzene	24.28	91	607801	5.965	ng	99
77) 3-Ethyltoluene	24.40	105	501561	6.590	ng	100
78) 4-Ethyltoluene	24.46	105	501826	6.746	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	413241	6.507	ng	100

em 7/27/09

420

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240920.D
 Acq On : 24 Jul 2009 23:33
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:09:44 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	234444	7.236	ng	99
81) 2-Ethyltoluene	24.79	105	507526	6.429	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	432367	6.050	ng	97
83) n-Decane	25.15	57	218547	5.628	ng	100
84) Benzyl Chloride	25.21	91	360276	6.719	ng	100
85) 1,3-Dichlorobenzene	25.25	146	245121	7.562	ng	100
86) 1,4-Dichlorobenzene	25.32	146	249090	7.484	ng	99
87) sec-Butylbenzene	25.38	105	578534	6.629	ng	100
88) 4-Isopropyltoluene (p-....	25.56	119	550250	6.406	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	449883	6.447	ng	97
90) 1,2-Dichlorobenzene	25.74	146	237394	7.314	ng	100
91) d-Limonene	25.74	68	177692	6.845	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.26	157	82030	8.196	ng	96
93) n-Undecane	26.65	57	226067	6.134	ng	98
94) 1,2,4-Trichlorobenzene	27.79	180	174516	9.021	ng	100
95) Naphthalene	27.94	128	598276	8.206	ng	99
96) n-Dodecane	27.89	57	220752	5.440	ng	99
97) Hexachlorobutadiene	28.36	225	97905	8.053	ng	99
98) Cyclohexanone	22.51	55	122823	5.390	ng	99
99) tert-Butylbenzene	25.05	119	436634	6.311	ng	100
100) n-Butylbenzene	26.06	91	478776	6.555	ng	99

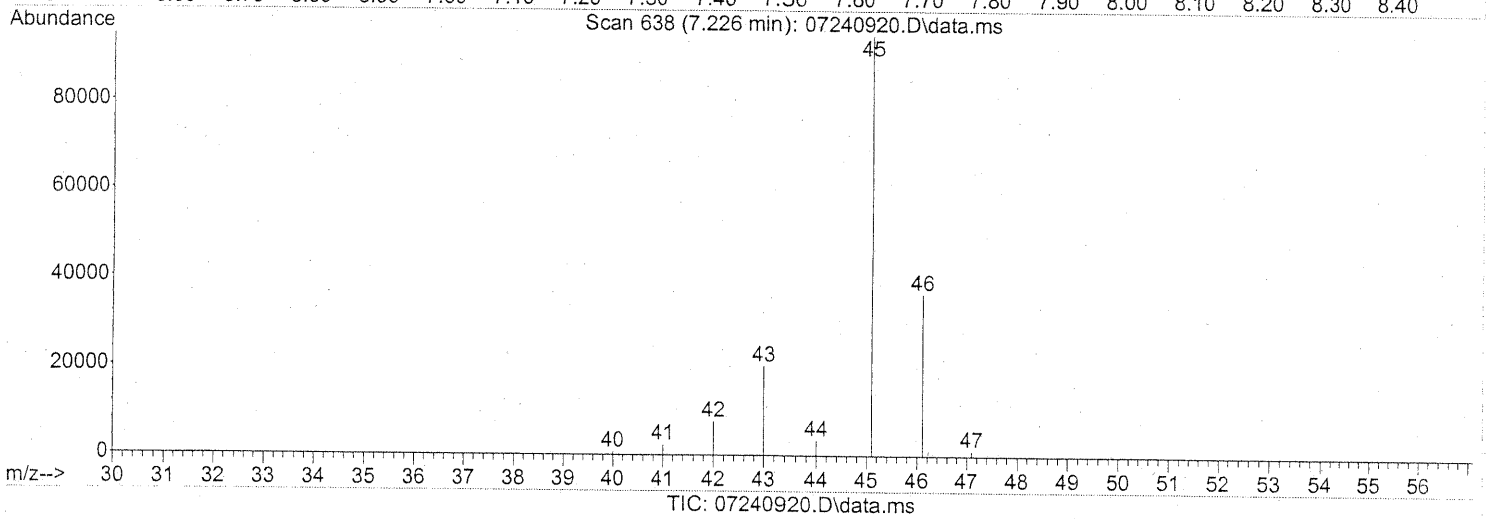
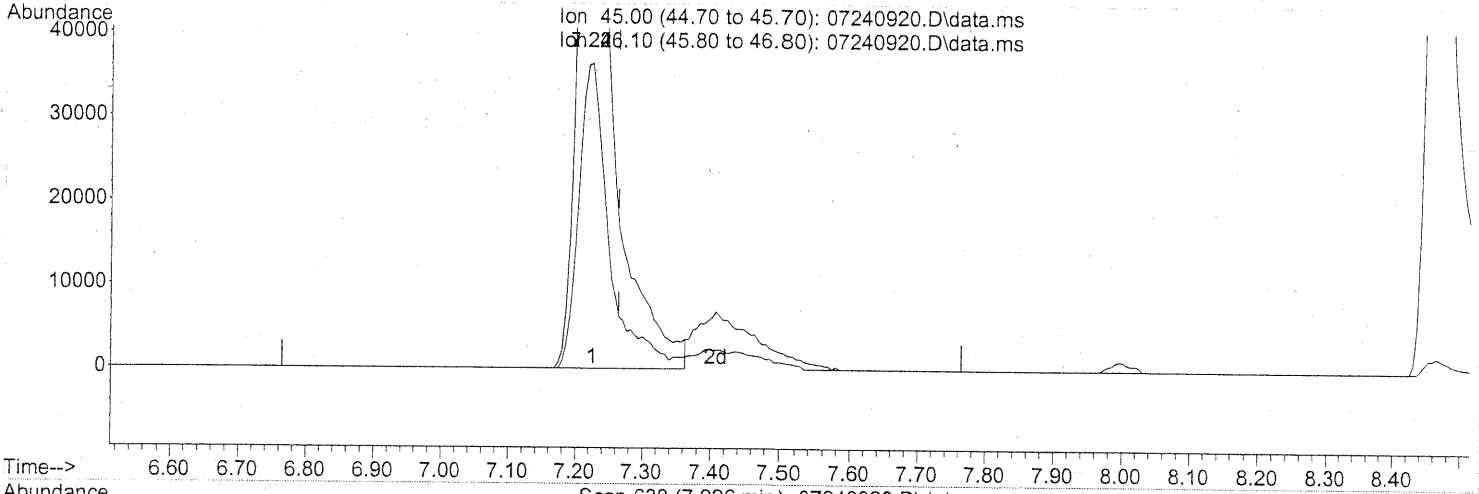
(#) = qualifier out of range (m) = manual integration (+) = signals summed

em 7/27/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
Data File : 07240920.D
Acq On : 24 Jul 2009 23:33
Operator : EM
Sample : 5ng TO-15 ICAL STD
Misc : S20-07200901/S20-07240909
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:08:23 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 08:47:52 2009
Response via : Initial Calibration



(10) Ethanol (T)
7.226min (-0.040) 23.47ng

response 300157

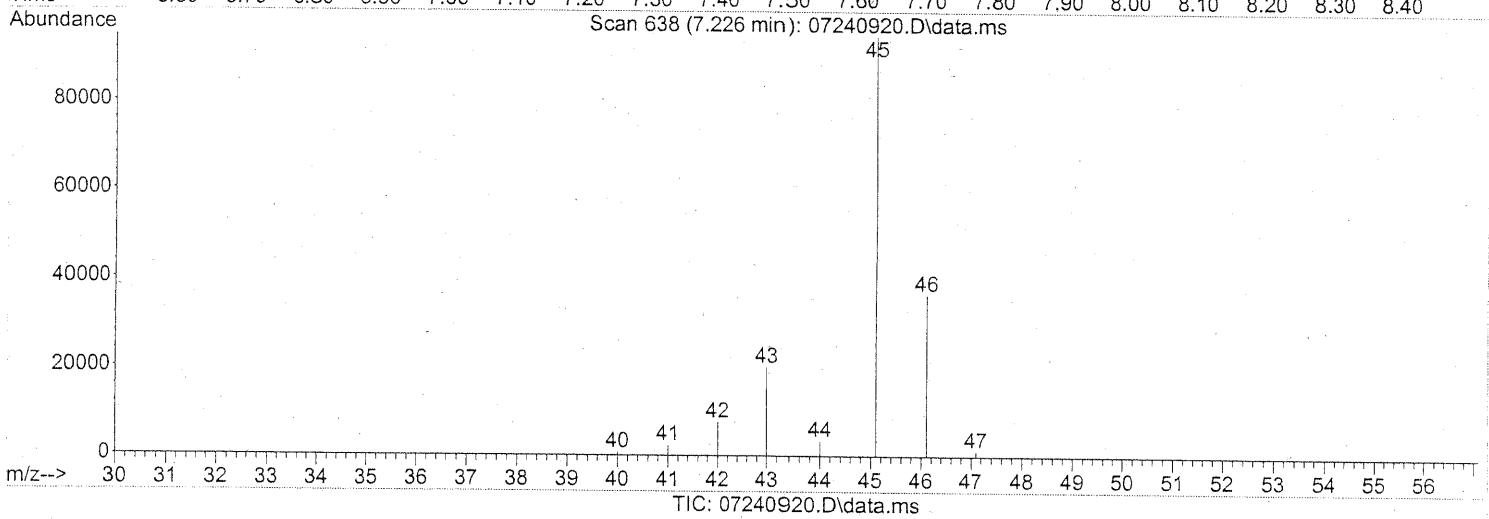
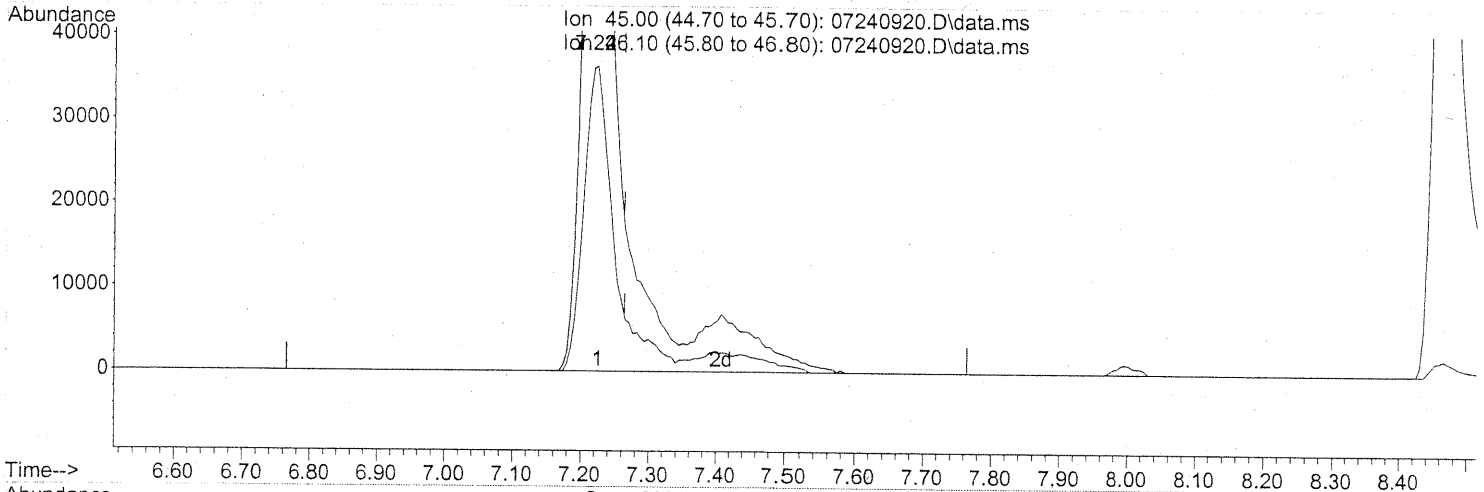
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.00
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240920.D
 Acq On : 24 Jul 2009 23:33
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240909
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:08:23 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.226min (-0.040) 26.66ng m
 response 340925

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	34.34
0.00	0.00	0.00
0.00	0.00	0.00

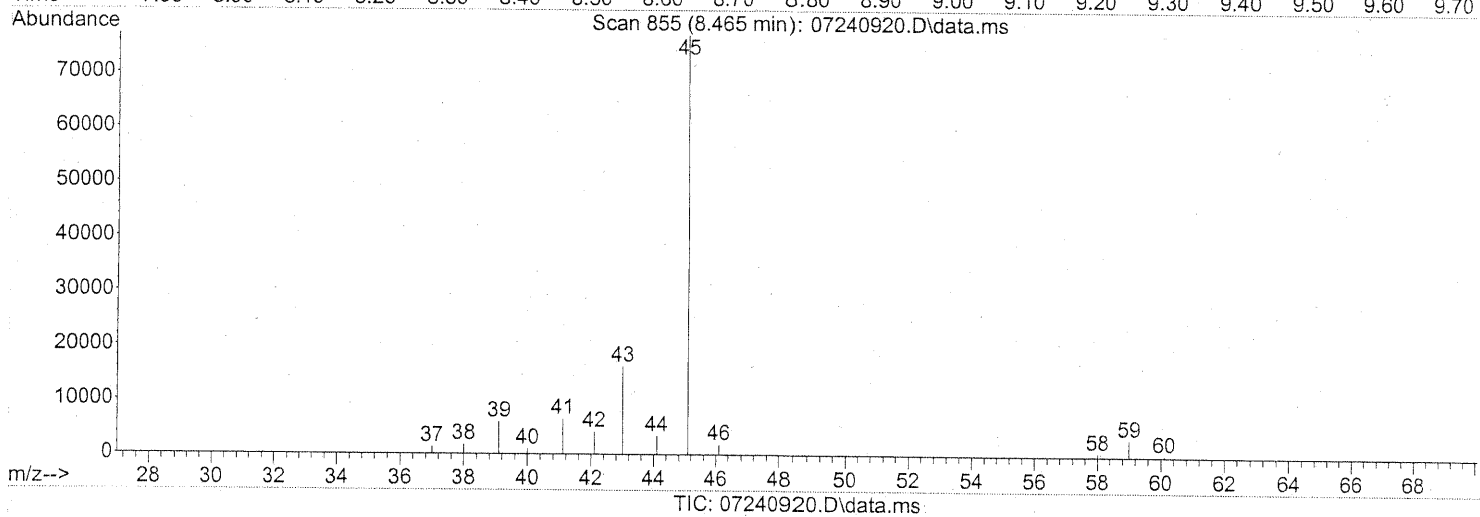
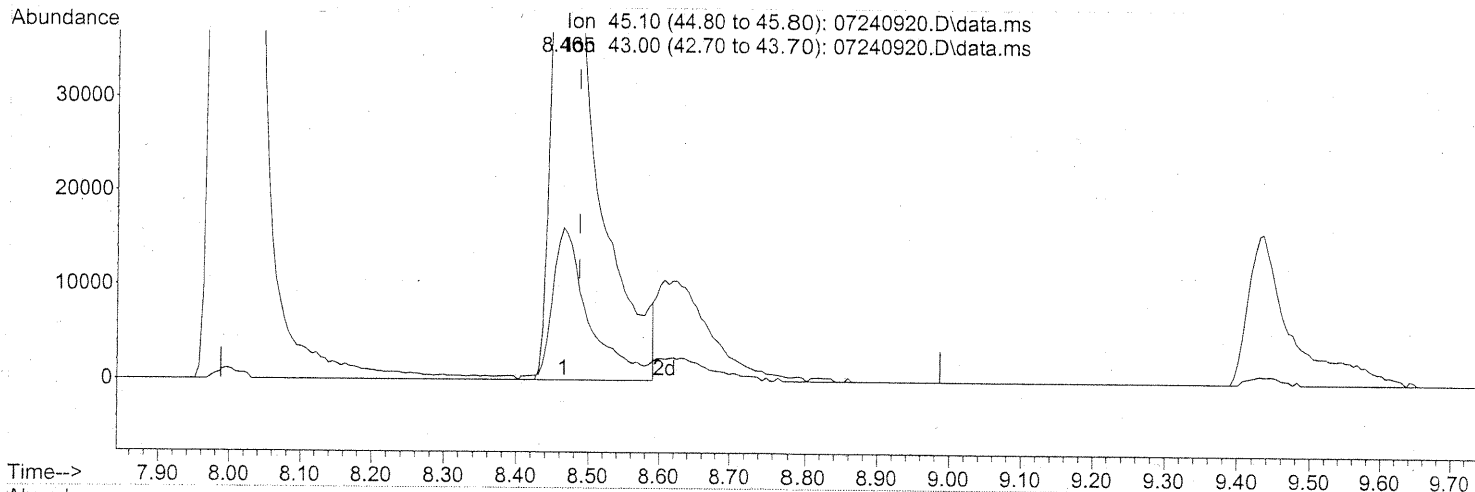
PT → IC
 em 7/27/09
 — 7/27/09

423

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
Data File : 07240920.D
Acq On : 24 Jul 2009 23:33
Operator : EM
Sample : 5ng TO-15 ICAL STD
Misc : S20-07200901/S20-07240909
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:08:23 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 08:47:52 2009
Response via : Initial Calibration



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

8.465min (-0.023) 5.39ng

response 264372

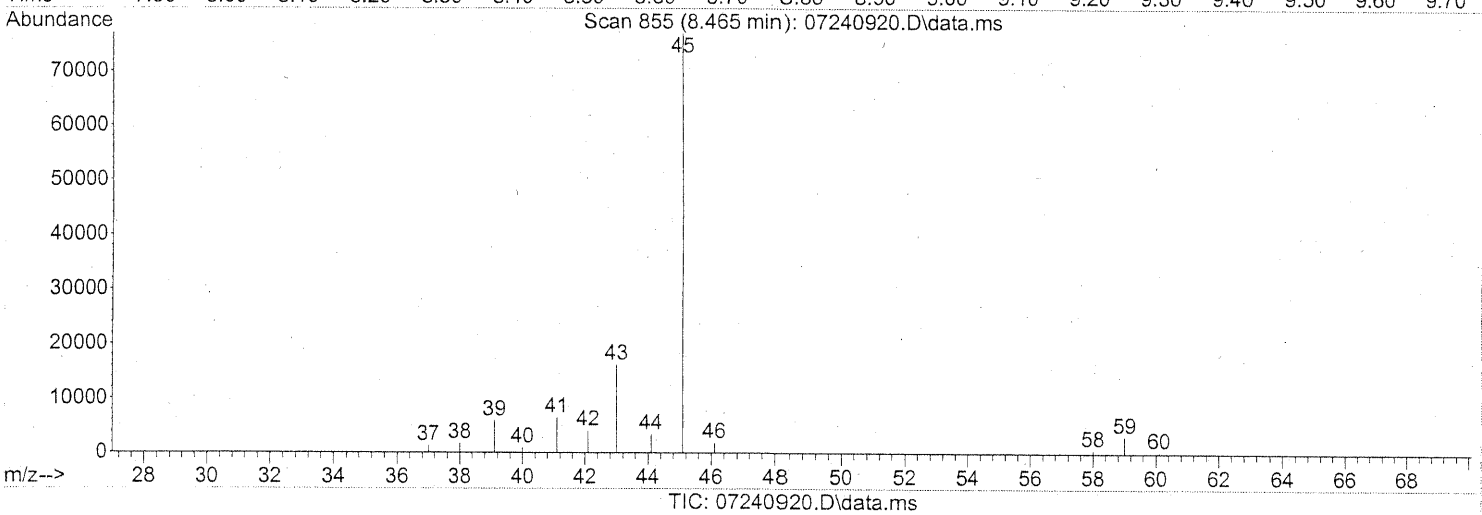
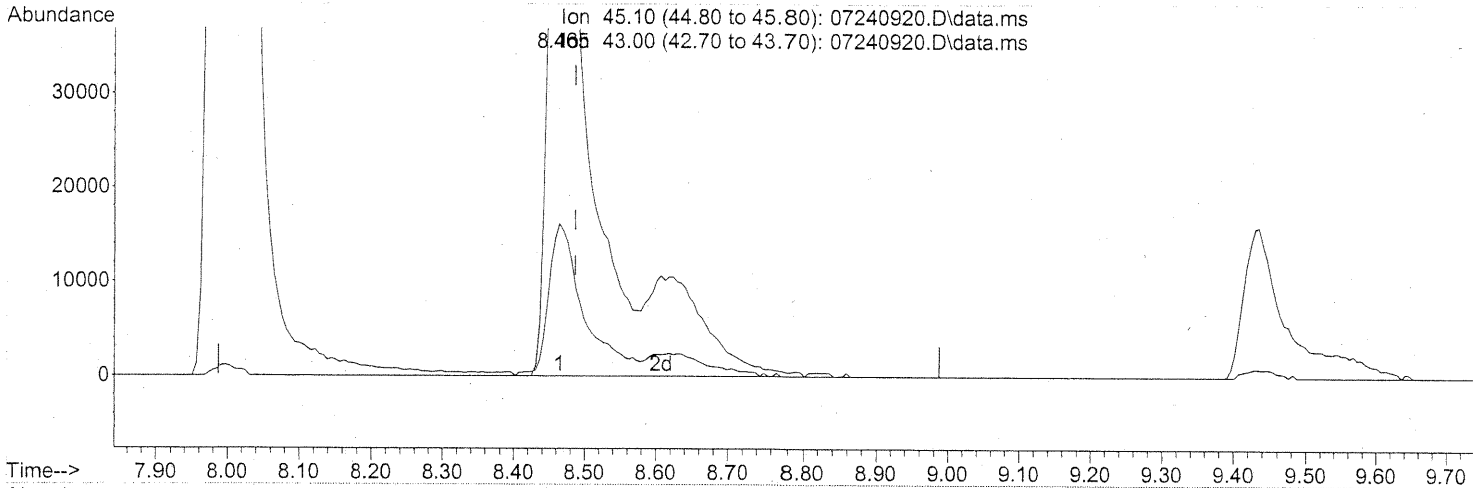
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	21.22
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
Data File : 07240920.D
Acq On : 24 Jul 2009 23:33
Operator : EM
Sample : 5ng TO-15 ICAL STD
Misc : S20-07200901/S20-07240909
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:08:23 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 08:47:52 2009
Response via : Initial Calibration



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

8.465min (-0.023) 6.50ng m

response 318940

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.59
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC

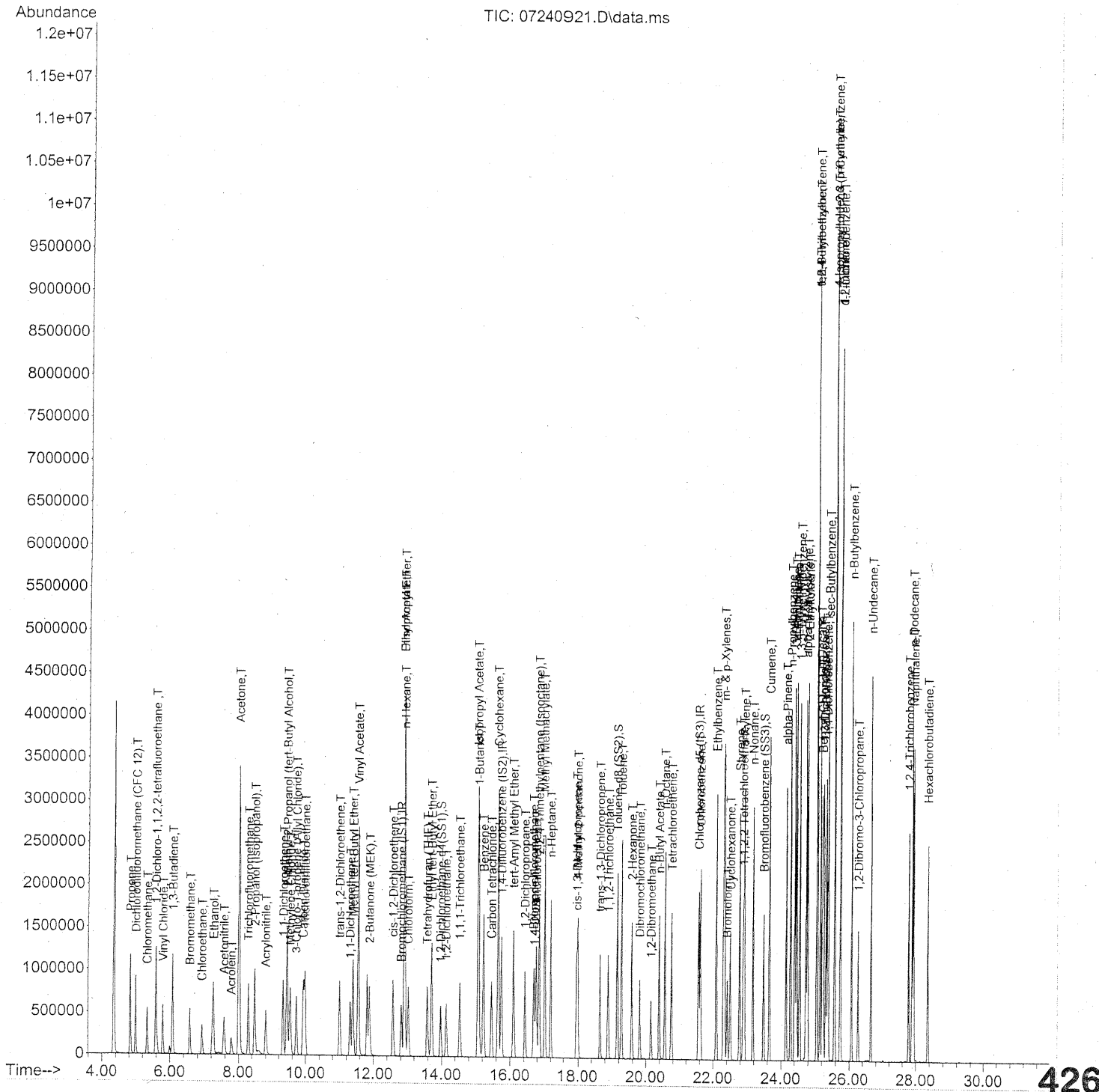
em 7/27/09

27
7/29/09

425

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240921.D
 Acq On : 25 Jul 2009 00:14
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:12:00 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240921.D
 Acq On : 25 Jul 2009 00:14
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:12:00 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	334561	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.75	114	1680638	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.56	82	784143	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.97	65	586734	20.037	ng	0.00
Spiked Amount	25.000		Recovery	=	80.16%	
57) Toluene-d8 (SS2)	19.15	98	1914682	26.990	ng	0.00
Spiked Amount	25.000		Recovery	=	107.96%	
73) Bromofluorobenzene (SS3)	23.49	174	593711	29.251	ng	0.00
Spiked Amount	25.000		Recovery	=	117.00%	

Target Compounds						Qvalue
2) Propene	4.83	42	519112	27.788	ng	100
3) Dichlorodifluoromethan...	5.00	85	1005925	26.465	ng	99
4) Chloromethane	5.33	50	736618	23.529	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	578121	26.665	ng	100
6) Vinyl Chloride	5.80	62	792905	22.150	ng	100
7) 1,3-Butadiene	6.08	54	698573	24.550	ng	99
8) Bromomethane	6.58	94	502094	23.248	ng	100
9) Chloroethane	6.93	64	403814	25.777	ng	100
10) Ethanol	7.27	45	1711818m	130.522	ng	
11) Acetonitrile	7.57	41	774300	24.782	ng	99
12) Acrolein	7.79	56	278383	24.078	ng	98
13) Acetone	8.01	58	2028057	125.359	ng	99
14) Trichlorofluoromethane	8.29	101	931820	25.348	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	1939885m	38.547	ng	
16) Acrylonitrile	8.80	53	632510	26.130	ng	100
17) 1,1-Dichloroethene	9.33	96	511346	28.207	ng	98
18) 2-Methyl-2-Propanol (t...	9.45	59	2618814	47.828	ng	98
19) Methylene Chloride	9.54	84	517928	25.215	ng	99
20) 3-Chloro-1-propene (Al...	9.73	41	663528	25.076	ng	100
21) Trichlorotrifluoroethane	9.98	151	461485	33.244	ng	97
22) Carbon Disulfide	9.93	76	1861523	28.741	ng	98
23) trans-1,2-Dichloroethene	11.00	61	731103	26.977	ng	100
24) 1,1-Dichloroethane	11.31	63	875381	24.220	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1602908	25.899	ng	100
26) Vinyl Acetate	11.56	86	573211	109.157	ng	100
27) 2-Butanone (MEK)	11.89	72	384094	29.365	ng	99
28) cis-1,2-Dichloroethene	12.58	61	722864	27.578	ng	99
29) Diisopropyl Ether	12.91	87	505532	28.499	ng	# 95
30) Ethyl Acetate	12.91	61	431258	62.792	ng	99
31) n-Hexane	12.93	57	980353	30.205	ng	100

427

EM 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240921.D
 Acq On : 25 Jul 2009 00:14
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:12:00 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.03	83	887504	25.809	ng	100
34) Tetrahydrofuran (THF)	13.58	72	343920	27.744	ng	98
35) Ethyl tert-Butyl Ether	13.71	87	670898	25.813	ng	99
36) 1,2-Dichloroethane	14.13	62	712858	23.874	ng	99
38) 1,1,1-Trichloroethane	14.54	97	809564	24.990	ng	100
39) Isopropyl Acetate	15.07	61	723678	59.868	ng	# 82
40) 1-Butanol	15.09	56	1228458	61.622	ng	84
41) Benzene	15.23	78	2184917	25.105	ng	99
42) Carbon Tetrachloride	15.46	117	728542	28.571	ng	99
43) Cyclohexane	15.66	84	1808808	53.515	ng	99
44) tert-Amyl Methyl Ether	16.10	73	1594609	26.766	ng	100
45) 1,2-Dichloropropane	16.43	63	504951	27.409	ng	98
46) Bromodichloromethane	16.70	83	737896	28.575	ng	99
47) Trichloroethene	16.77	130	595564	30.875	ng	100
48) 1,4-Dioxane	16.72	88	455319	31.496	ng	99
49) 2,2,4-Trimethylpentane...	16.86	57	2191491	25.825	ng	100
50) Methyl Methacrylate	17.02	100	503479	68.940	ng	100
51) n-Heptane	17.21	71	586458	27.501	ng	100
52) cis-1,3-Dichloropropene	17.95	75	846178	26.694	ng	100
53) 4-Methyl-2-pentanone	17.99	58	527336	30.768	ng	98
54) trans-1,3-Dichloropropene	18.64	75	880820	29.802	ng	100
55) 1,1,2-Trichloroethane	18.89	97	514478	29.808	ng	99
58) Toluene	19.28	91	2472020	32.245	ng	100
59) 2-Hexanone	19.58	43	1301868	33.072	ng	99
60) Dibromochloromethane	19.82	129	659565	41.781	ng	100
61) 1,2-Dibromoethane	20.15	107	610731	35.758	ng	99
62) n-Butyl Acetate	20.39	43	1459306	32.922	ng	100
63) n-Octane	20.56	57	508471	31.869	ng	100
64) Tetrachloroethene	20.76	166	636842	37.373	ng	99
65) Chlorobenzene	21.62	112	1581675	35.383	ng	100
66) Ethylbenzene	22.09	91	2805556	33.570	ng	100
67) m- & p-Xylenes	22.33	91	4592828	66.117	ng	100
68) Bromoform	22.42	173	556211	41.568	ng	100
69) Styrene	22.77	104	1817793	39.713	ng	99
70) o-Xylene	22.92	91	2319522	33.671	ng	99
71) n-Nonane	23.18	43	1161988	30.947	ng	99
72) 1,1,2,2-Tetrachloroethane	22.89	83	1020606	36.056	ng	99
74) Cumene	23.66	105	2986949	35.194	ng	100
75) alpha-Pinene	24.15	93	1458807	34.891	ng	99
76) n-Propylbenzene	24.28	91	3763610	35.216	ng	100
77) 3-Ethyltoluene	24.41	105	3145024	39.395	ng	99
78) 4-Ethyltoluene	24.46	105	3084378	39.528	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	2557975	38.400	ng	100

428

EM 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240921.D
 Acq On : 25 Jul 2009 00:14
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:12:00 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1477310	43.467	ng	99
81) 2-Ethyltoluene	24.79	105	3161734	38.183	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	2982927	39.790	ng	99
83) n-Decane	25.16	57	1444437	35.460	ng	99
84) Benzyl Chloride	25.22	91	2416210	42.959	ng	100
85) 1,3-Dichlorobenzene	25.25	146	1474214	43.357	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1481757	42.442	ng	100
87) sec-Butylbenzene	25.39	105	3600680	39.333	ng	100
88) 4-Isopropyltoluene (p-...	25.57	119	3699453	41.059	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	3056652	41.756	ng	98
90) 1,2-Dichlorobenzene	25.75	146	1499793	44.049	ng	100
91) d-Limonene	25.75	68	1236612	45.411	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.27	157	470762	44.843	ng	95
93) n-Undecane	26.65	57	1487970	38.488	ng	99
94) 1,2,4-Trichlorobenzene	27.79	180	925411	45.606	ng	99
95) Naphthalene	27.94	128	3164635	41.379	ng	100
96) n-Dodecane	27.89	57	1373683	32.273	ng	99
97) Hexachlorobutadiene	28.36	225	531614	41.689	ng	100
98) Cyclohexanone	22.51	55	773115	32.345	ng	99
99) tert-Butylbenzene	25.05	119	2936568	40.463	ng	100
100) n-Butylbenzene	26.07	91	3004188	39.212	ng	100

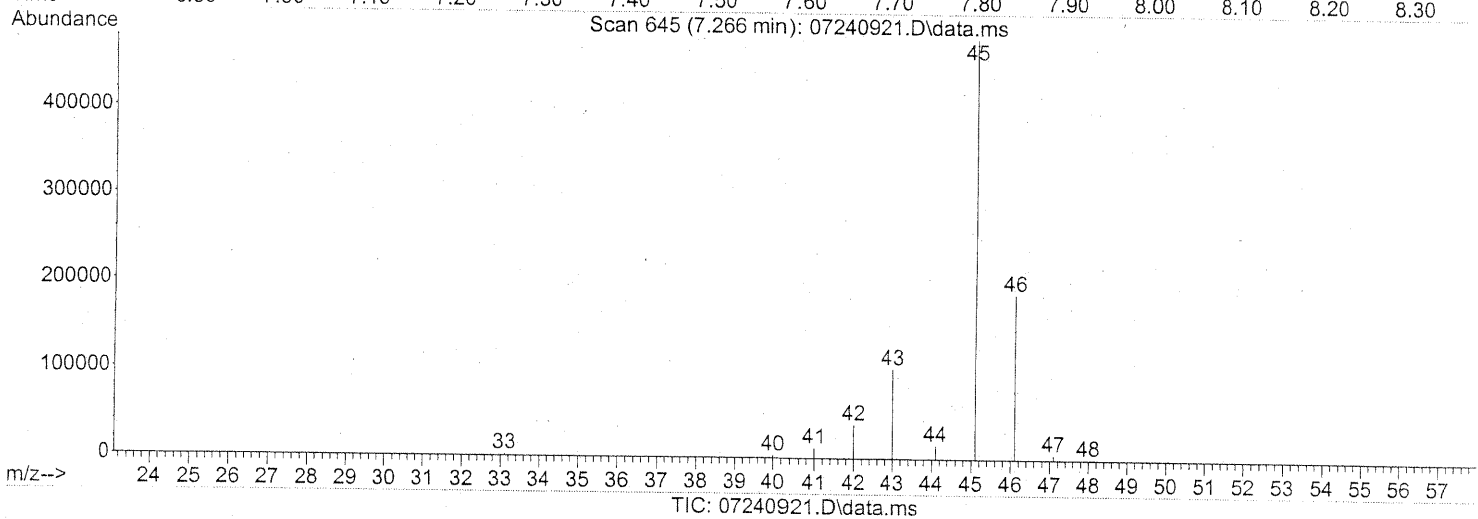
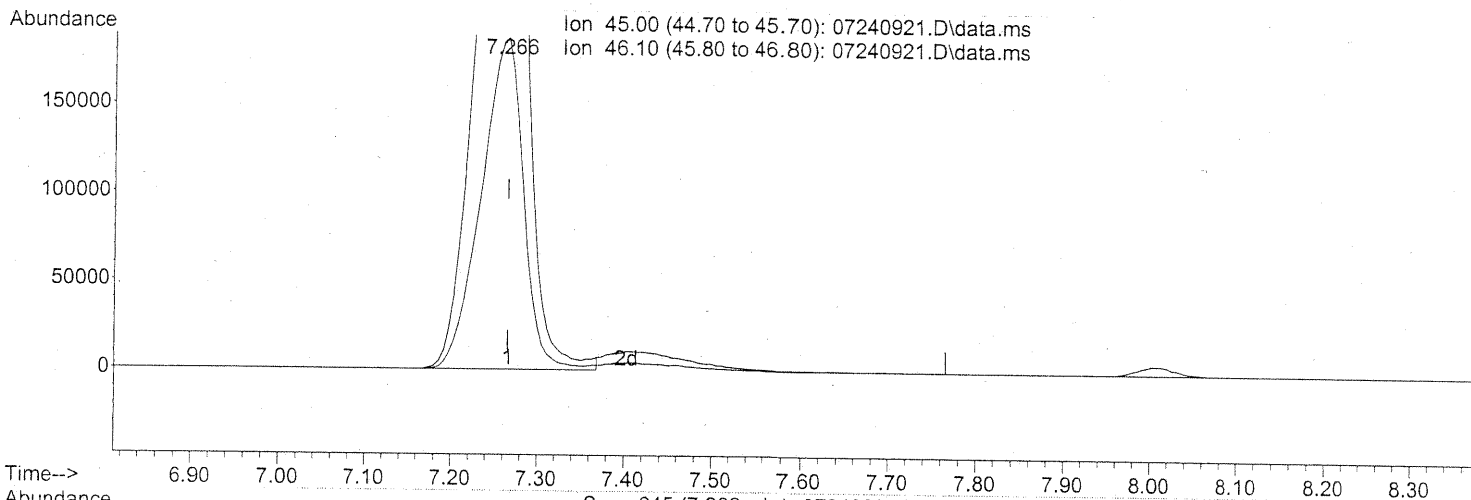
(#) = qualifier out of range (m) = manual integration (+) = signals summed

EM 7/27/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240921.D
 Acq On : 25 Jul 2009 00:14
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 08:48:03 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.266min (0.000) 125.06ng
 response 1640232

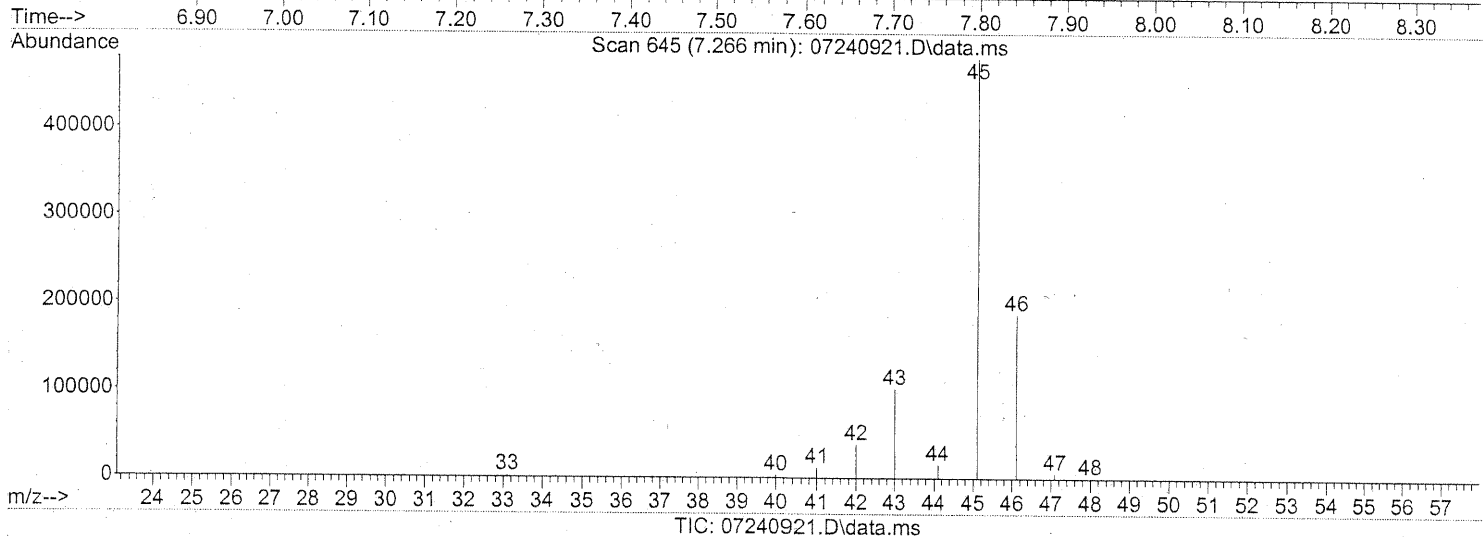
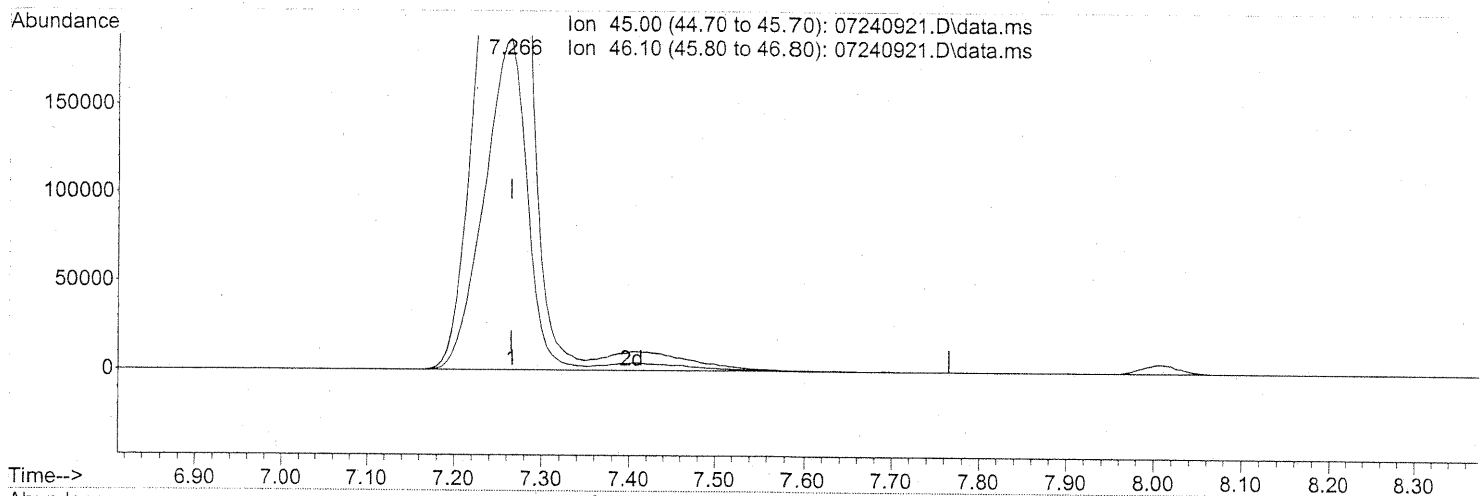
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.83
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240921.D
 Acq On : 25 Jul 2009 00:14
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 08:48:03 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.266min (0.000) 130.52ng m
 response 1711818

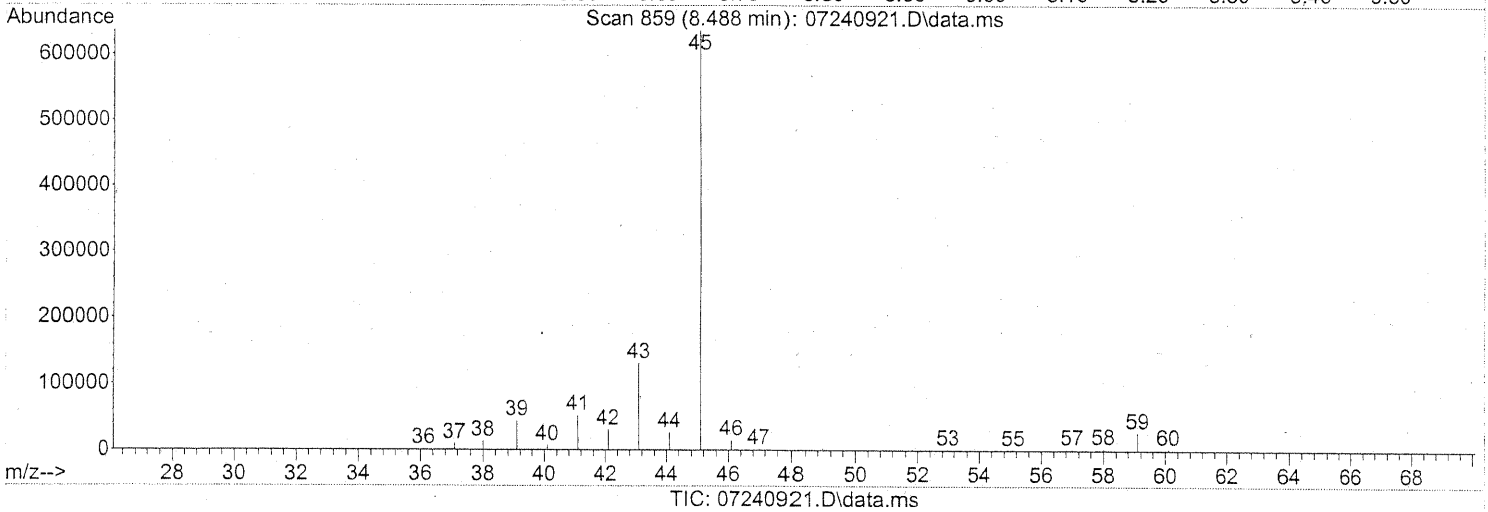
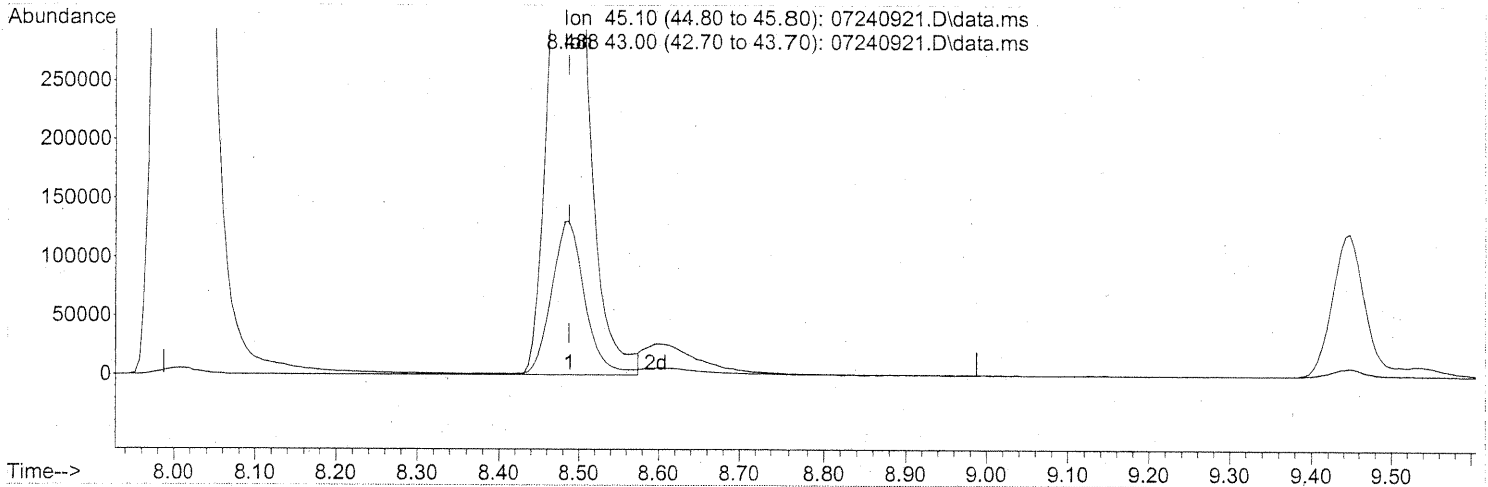
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.20
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
 em 7/27/09
 — 7/27/09

431

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240921.D
 Acq On : 25 Jul 2009 00:14
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 08:48:03 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



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

8.488min (0.000) 35.95ng

response 1809118

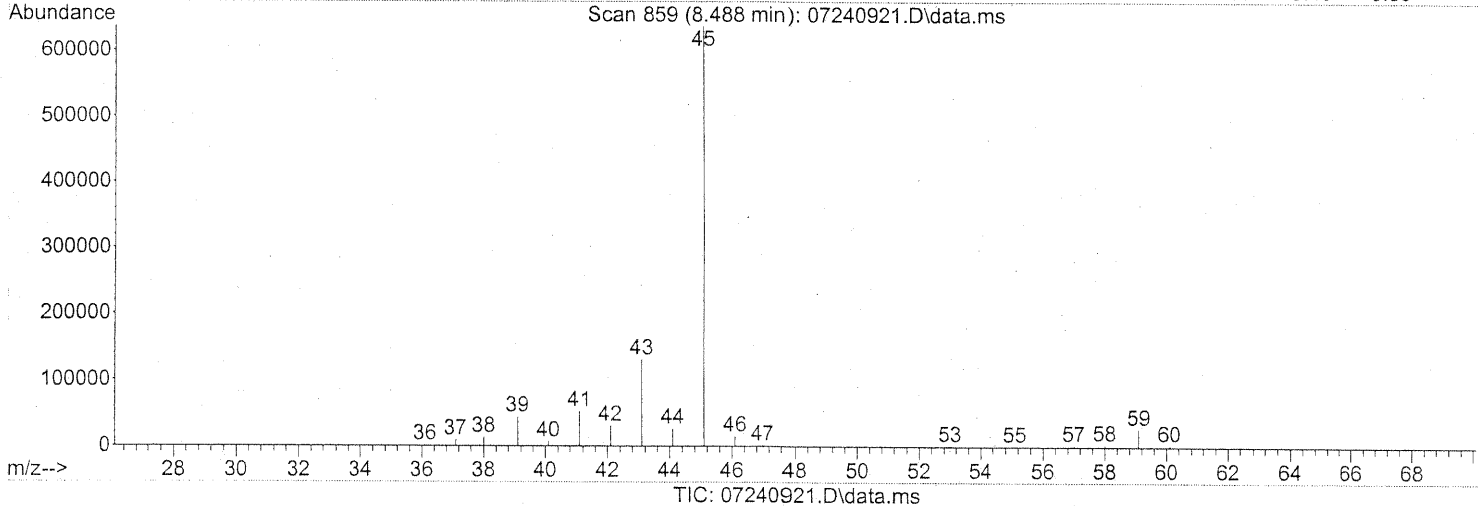
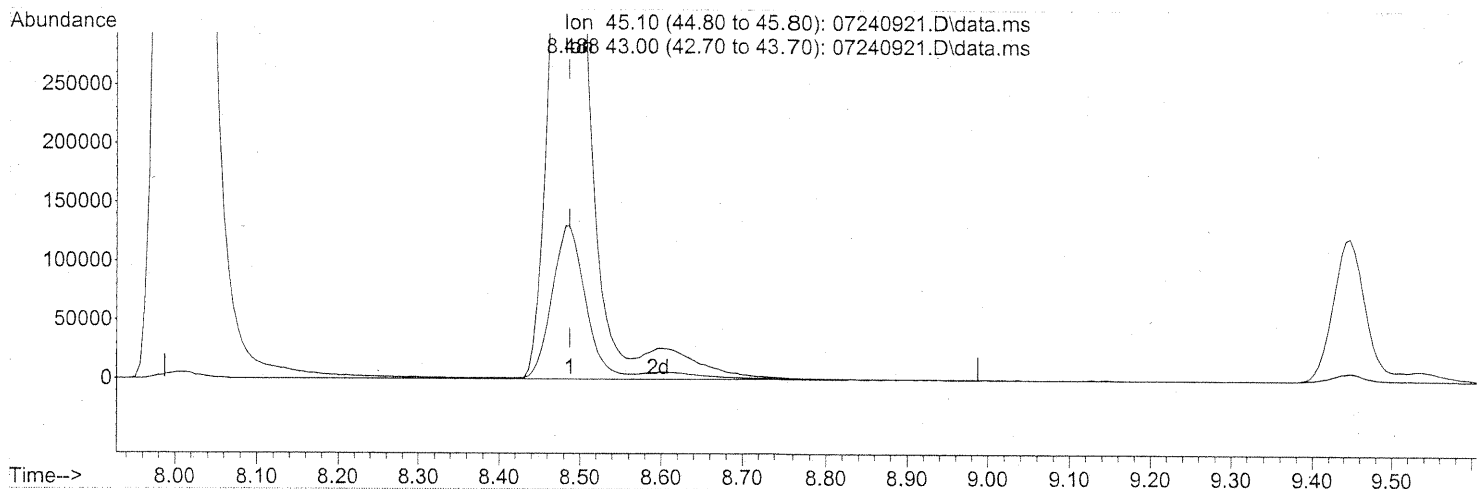
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	20.64
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240921.D
 Acq On : 25 Jul 2009 00:14
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 08:48:03 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



(15) 2-Propanol (isopropanol) (T)

8.488min (0.000) 38.55ng m

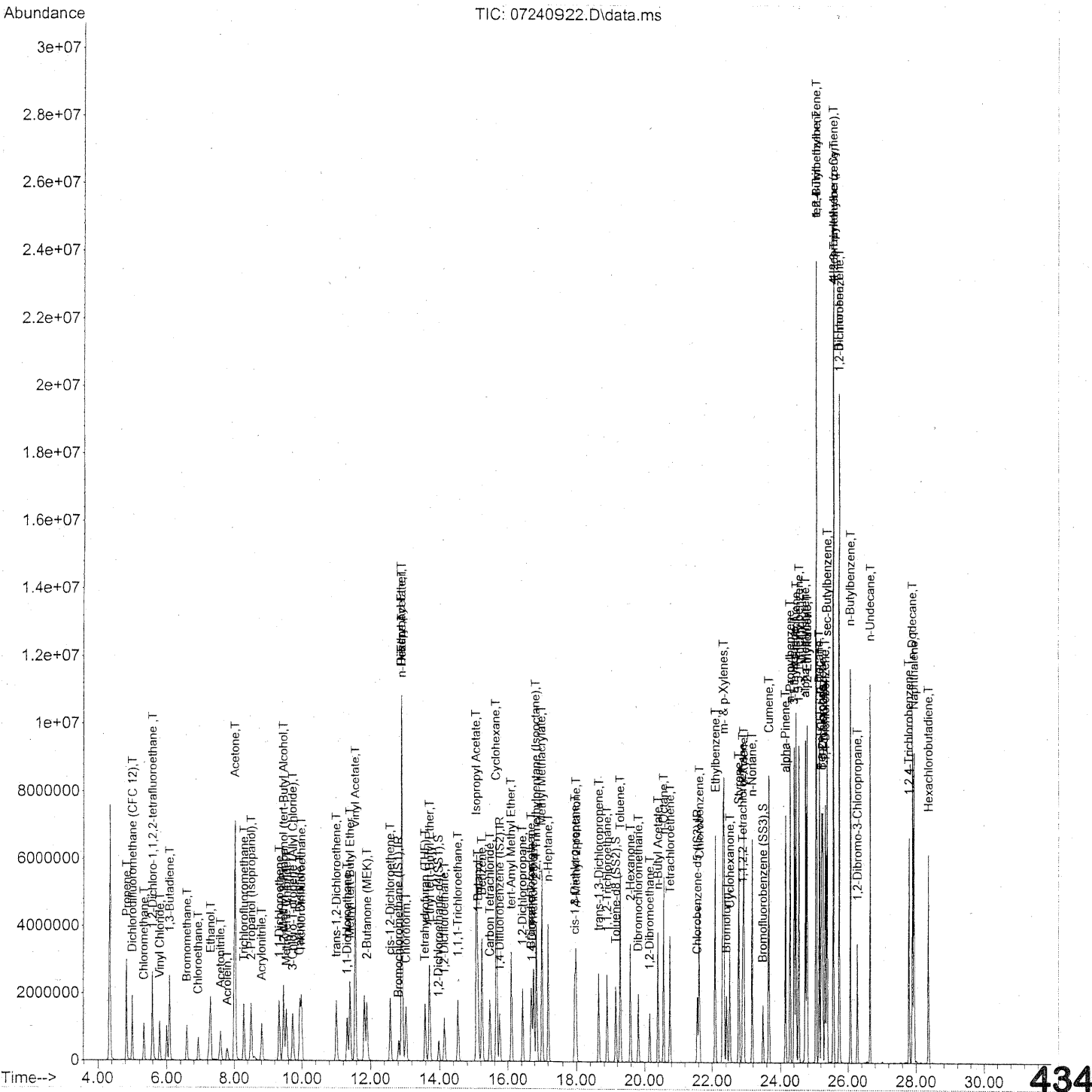
response 1939885

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.25
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
 em 7/27/09
 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240922.D
 Acq On : 25 Jul 2009 00:56
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:13:11 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240922.D
 Acq On : 25 Jul 2009 00:56
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:13:11 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.82	130	334431	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.77	114	1680503	25.000	ng	0.01
56) Chlorobenzene-d5 (IS3)	21.56	82	783371	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.98	65	591614	20.211	ng	0.00
Spiked Amount	25.000		Recovery	=	80.84%	
57) Toluene-d8 (SS2)	19.15	98	1908892	26.935	ng	0.00
Spiked Amount	25.000		Recovery	=	107.72%	
73) Bromofluorobenzene (SS3)	23.49	174	588011	28.999	ng	0.00
Spiked Amount	25.000		Recovery	=	116.00%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	1326440	71.032	ng	100
3) Dichlorodifluoromethan...	5.00	85	2144836	56.450	ng	99
4) Chloromethane	5.33	50	1549190	49.502	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	1203456	55.529	ng	100
6) Vinyl Chloride	5.80	62	1639565	45.820	ng	100
7) 1,3-Butadiene	6.08	54	1566512	55.073	ng	100
8) Bromomethane	6.59	94	1009847	46.777	ng	100
9) Chloroethane	6.93	64	816493	52.139	ng	100
10) Ethanol	7.29	45	4093585	312.247	ng	100
11) Acetonitrile	7.59	41	1618889	51.833	ng	100
12) Acrolein	7.79	56	587634	50.845	ng	98
13) Acetone	8.03	58	4668898	288.707	ng	95
14) Trichlorofluoromethane	8.29	101	1928885	52.490	ng	98
15) 2-Propanol (Isopropanol)	8.50	45	3439733	68.376	ng	100
16) Acrylonitrile	8.81	53	1361029	56.247	ng	100
17) 1,1-Dichloroethene	9.33	96	1059462	58.465	ng	99
18) 2-Methyl-2-Propanol (t...	9.46	59	3958447	72.323	ng	99
19) Methylene Chloride	9.55	84	1066008	51.918	ng	97
20) 3-Chloro-1-propene (Al...	9.73	41	1404688	53.107	ng	100
21) Trichlorotrifluoroethane	9.99	151	930085	67.027	ng	98
22) Carbon Disulfide	9.94	76	3863592	59.674	ng	97
23) trans-1,2-Dichloroethene	11.01	61	1506569	55.612	ng	99
24) 1,1-Dichloroethane	11.32	63	1795347	49.692	ng	100
25) Methyl tert-Butyl Ether	11.40	73	3331566	53.850	ng	100
26) Vinyl Acetate	11.57	86	1236360	235.533	ng	99
27) 2-Butanone (MEK)	11.90	72	804680	61.544	ng	100
28) cis-1,2-Dichloroethene	12.58	61	1511007	57.668	ng	98
29) Diisopropyl Ether	12.91	87	1161454	65.501	ng	# 93
30) Ethyl Acetate	12.92	61	1044430	152.131	ng	99
31) n-Hexane	12.93	57	2356606	72.635	ng	99

435

em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240922.D
 Acq On : 25 Jul 2009 00:56
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:13:11 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.04	83	1828516	53.195	ng	100
34) Tetrahydrofuran (THF)	13.59	72	702576	56.699	ng	100
35) Ethyl tert-Butyl Ether	13.72	87	1425532	54.869	ng	97
36) 1,2-Dichloroethane	14.14	62	1459766	48.908	ng	99
38) 1,1,1-Trichloroethane	14.54	97	1658392	51.197	ng	100
39) Isopropyl Acetate	15.08	61	1602957	132.618	ng	# 86
40) 1-Butanol	15.12	56	2704177	135.657	ng	# 5
41) Benzene	15.24	78	4678498	53.761	ng	100
42) Carbon Tetrachloride	15.47	117	1501671	58.895	ng	99
43) Cyclohexane	15.66	84	3930317	116.291	ng	98
44) tert-Amyl Methyl Ether	16.11	73	3415816	57.340	ng	100
45) 1,2-Dichloropropane	16.44	63	1056847	57.370	ng	98
46) Bromodichloromethane	16.70	83	1538229	59.573	ng	99
47) Trichloroethene	16.78	130	1228428	63.688	ng	100
48) 1,4-Dioxane	16.73	88	947662	65.558	ng	98
49) 2,2,4-Trimethylpentane...	16.86	57	4625097	54.507	ng	100
50) Methyl Methacrylate	17.03	100	1088716	149.086	ng	97
51) n-Heptane	17.22	71	1274278	59.760	ng	100
52) cis-1,3-Dichloropropene	17.95	75	1794205	56.606	ng	100
53) 4-Methyl-2-pentanone	17.99	58	1130714	65.977	ng	98
54) trans-1,3-Dichloropropene	18.65	75	1854969	62.766	ng	99
55) 1,1,2-Trichloroethane	18.89	97	1073618	62.208	ng	99
58) Toluene	19.28	91	5270710	68.820	ng	100
59) 2-Hexanone	19.59	43	2804973	71.326	ng	100
60) Dibromochloromethane	19.82	129	1380879	87.560	ng	100
61) 1,2-Dibromoethane	20.15	107	1260494	73.874	ng	99
62) n-Butyl Acetate	20.39	43	3172033	71.633	ng	99
63) n-Octane	20.56	57	1112752	69.813	ng	100
64) Tetrachloroethene	20.76	166	1336901	78.534	ng	99
65) Chlorobenzene	21.63	112	3338487	74.757	ng	100
66) Ethylbenzene	22.10	91	6073712	72.746	ng	100
67) m- & p-Xylenes	22.33	91	10186130	146.782	ng	99
68) Bromoform	22.42	173	1174610	87.869	ng	100
69) Styrene	22.78	104	3923090	85.792	ng	100
70) o-Xylene	22.93	91	5077740	73.782	ng	100
71) n-Nonane	23.18	43	2564690	68.373	ng	100
72) 1,1,2,2-Tetrachloroethane	22.89	83	2238622	79.163	ng	99
74) Cumene	23.67	105	6550441	77.257	ng	100
75) alpha-Pinene	24.15	93	3225606	77.224	ng	99
76) n-Propylbenzene	24.29	91	8244845	77.223	ng	99
77) 3-Ethyltoluene	24.41	105	6805577	85.331	ng	100
78) 4-Ethyltoluene	24.47	105	7008657	89.908	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	5727339	86.062	ng	100

436

EM 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240922.D
 Acq On : 25 Jul 2009 00:56
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:13:11 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

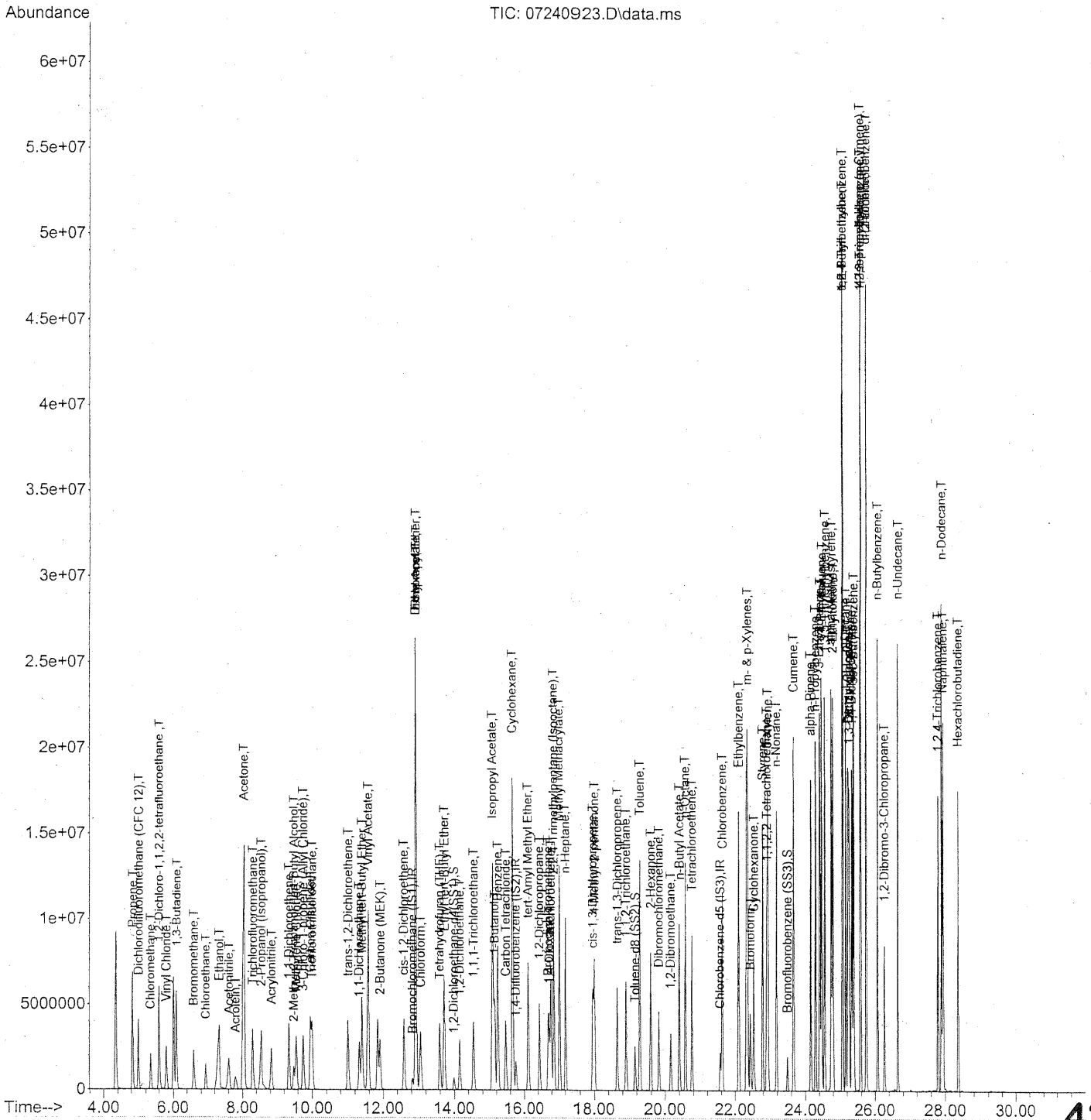
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	3299903	97.189	ng	99
81) 2-Ethyltoluene	24.80	105	7011399	84.758	ng	99
82) 1,2,4-Trimethylbenzene	25.06	105	7221883	96.429	ng	98
83) n-Decane	25.16	57	3315541	81.474	ng	99
84) Benzyl Chloride	25.23	91	5604883	99.750	ng	100
85) 1,3-Dichlorobenzene	25.25	146	3331443	98.074	ng	100
86) 1,4-Dichlorobenzene	25.33	146	3331403	95.515	ng	100
87) sec-Butylbenzene	25.39	105	8105485	88.630	ng	100
88) 4-Isopropyltoluene (p-...	25.57	119	8962908	99.575	ng	99
89) 1,2,3-Trimethylbenzene	25.58	105	7519581	102.824	ng	97
90) 1,2-Dichlorobenzene	25.75	146	3630441	106.732	ng	100
91) d-Limonene	25.74	68	2940523	108.090	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.27	157	1067250	101.762	ng	95
93) n-Undecane	26.66	57	3521127	91.168	ng	99
94) 1,2,4-Trichlorobenzene	27.80	180	2261665	111.568	ng	100
95) Naphthalene	27.94	128	7778061	101.802	ng	99
96) n-Dodecane	27.89	57	3470131	81.606	ng	99
97) Hexachlorobutadiene	28.36	225	1281371	100.583	ng	99
98) Cyclohexanone	22.52	55	1652816	69.217	ng	99
99) tert-Butylbenzene	25.06	119	7008929	96.671	ng	99
100) n-Butylbenzene	26.07	91	6818183	89.082	ng	99

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

Em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240923.D
 Acq On : 25 Jul 2009 1:38
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:14:28 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240923.D
 Acq On : 25 Jul 2009 1:38
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:14:28 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.84	130	378303	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.77	114	1946517	25.000	ng	0.02
56) Chlorobenzene-d5 (IS3)	21.57	82	925238	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.99	65	677568	20.463	ng	0.02
Spiked Amount	25.000		Recovery	=	81.84%	
57) Toluene-d8 (SS2)	19.16	98	2217876	26.496	ng	0.01
Spiked Amount	25.000		Recovery	=	106.00%	
73) Bromofluorobenzene (SS3)	23.49	174	672797	28.093	ng	0.00
Spiked Amount	25.000		Recovery	=	112.36%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	3216246	152.259	ng	98
3) Dichlorodifluoromethan...	5.01	85	4778383	111.178	ng	99
4) Chloromethane	5.34	50	3159280	89.244	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	2774907	113.189	ng	100
6) Vinyl Chloride	5.80	62	3802360	93.939	ng	99
7) 1,3-Butadiene	6.09	54	3774226	117.299	ng	99
8) Bromomethane	6.60	94	2332004	95.493	ng	100
9) Chloroethane	6.94	64	1901870	107.364	ng	99
10) Ethanol	7.34	45	9959097	671.554	ng	100
11) Acetonitrile	7.62	41	3768702	106.672	ng	99
12) Acrolein	7.80	56	1346769	103.016	ng	98
13) Acetone	8.05	58	11629101	635.705	ng	# 78
14) Trichlorofluoromethane	8.30	101	4268461	102.686	ng	98
15) 2-Propanol (Isopropanol)	8.55	45	7659354	134.598	ng	99
16) Acrylonitrile	8.84	53	3092408	112.979	ng	100
17) 1,1-Dichloroethene	9.34	96	2400565	117.109	ng	99
18) 2-Methyl-2-Propanol (t...	9.48	59	2332801	37.678	ng	96
19) Methylene Chloride	9.56	84	2361243	101.663	ng	98
20) 3-Chloro-1-propene (Al...	9.74	41	3232471	108.037	ng	99
21) Trichlorotrifluoroethane	10.00	151	1984835	126.449	ng	99
22) Carbon Disulfide	9.95	76	8845950	120.783	ng	97
23) trans-1,2-Dichloroethene	11.02	61	3434156	112.065	ng	98
24) 1,1-Dichloroethane	11.33	63	4054931	99.218	ng	100
25) Methyl tert-Butyl Ether	11.41	73	7646702	109.264	ng	98
26) Vinyl Acetate	11.58	86	2691219	453.234	ng	# 86
27) 2-Butanone (MEK)	11.92	72	1351550	91.383	ng	99
28) cis-1,2-Dichloroethene	12.59	61	3454351	116.547	ng	98
29) Diisopropyl Ether	12.93	87	3029068	151.015	ng	# 92
30) Ethyl Acetate	12.94	61	2858748	368.112	ng	100
31) n-Hexane	12.94	57	6483491	176.659	ng	85

439

EM 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240923.D
 Acq On : 25 Jul 2009 1:38
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 27 09:14:28 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.06	83	4117291	105.890	ng	100
34) Tetrahydrofuran (THF)	13.59	72	1610915	114.927	ng	99
35) Ethyl tert-Butyl Ether	13.73	87	3354324	114.136	ng	96
36) 1,2-Dichloroethane	14.15	62	3271061	96.885	ng	99
38) 1,1,1-Trichloroethane	14.55	97	3639334	96.997	ng	100
39) Isopropyl Acetate	15.10	61	3981137	284.361	ng	97
40) 1-Butanol	15.15	56	6328206	274.075	ng	# 5
41) Benzene	15.25	78	10974259	108.873	ng	100
42) Carbon Tetrachloride	15.47	117	3381490	114.496	ng	98
43) Cyclohexane	15.67	84	9931690	253.701	ng	97
44) tert-Amyl Methyl Ether	16.11	73	8111482	117.556	ng	100
45) 1,2-Dichloropropane	16.45	63	2487540	116.580	ng	99
46) Bromodichloromethane	16.71	83	3490444	116.705	ng	99
47) Trichloroethene	16.79	130	2871963	128.549	ng	100
48) 1,4-Dioxane	16.74	88	2208380	131.894	ng	97
49) 2,2,4-Trimethylpentane...	16.87	57	11228641	114.245	ng	98
50) Methyl Methacrylate	17.05	100	2671801	315.870	ng	97
51) n-Heptane	17.22	71	3146622	127.402	ng	99
52) cis-1,3-Dichloropropene	17.96	75	4249292	115.741	ng	99
53) 4-Methyl-2-pentanone	18.00	58	2774694	139.778	ng	100
54) trans-1,3-Dichloropropene	18.66	75	4372805	127.742	ng	100
55) 1,1,2-Trichloroethane	18.90	97	2551028	127.612	ng	100
58) Toluene	19.30	91	12533650	138.559	ng	98
59) 2-Hexanone	19.60	43	6610685	142.324	ng	98
60) Dibromochloromethane	19.83	129	3196490	171.608	ng	99
61) 1,2-Dibromoethane	20.16	107	2934085	145.592	ng	100
62) n-Butyl Acetate	20.40	43	8001912	152.996	ng	97
63) n-Octane	20.57	57	2792932	148.358	ng	99
64) Tetrachloroethene	20.76	166	3208291	159.568	ng	98
65) Chlorobenzene	21.63	112	7965268	151.014	ng	99
66) Ethylbenzene	22.11	91	14369974	145.722	ng	98
67) m- & p-Xylenes	22.35	91	24734885	301.778	ng	96
68) Bromoform	22.43	173	2769581	175.417	ng	100
69) Styrene	22.79	104	9435360	174.699	ng	99
70) o-Xylene	22.93	91	12530844	154.162	ng	99
71) n-Nonane	23.19	43	6227222	140.559	ng	97
72) 1,1,2,2-Tetrachloroethane	22.91	83	5599835	167.661	ng	99
74) Cumene	23.67	105	15288185	152.664	ng	96
75) alpha-Pinene	24.16	93	7944902	161.043	ng	99
76) n-Propylbenzene	24.29	91	17419734	138.139	ng	92
77) 3-Ethyltoluene	24.42	105	16274364	172.767	ng	96
78) 4-Ethyltoluene	24.47	105	15153930	164.589	ng	90
79) 1,3,5-Trimethylbenzene	24.56	105	13651938	173.687	ng	94

440

EM 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240923.D
 Acq On : 25 Jul 2009 1:38
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

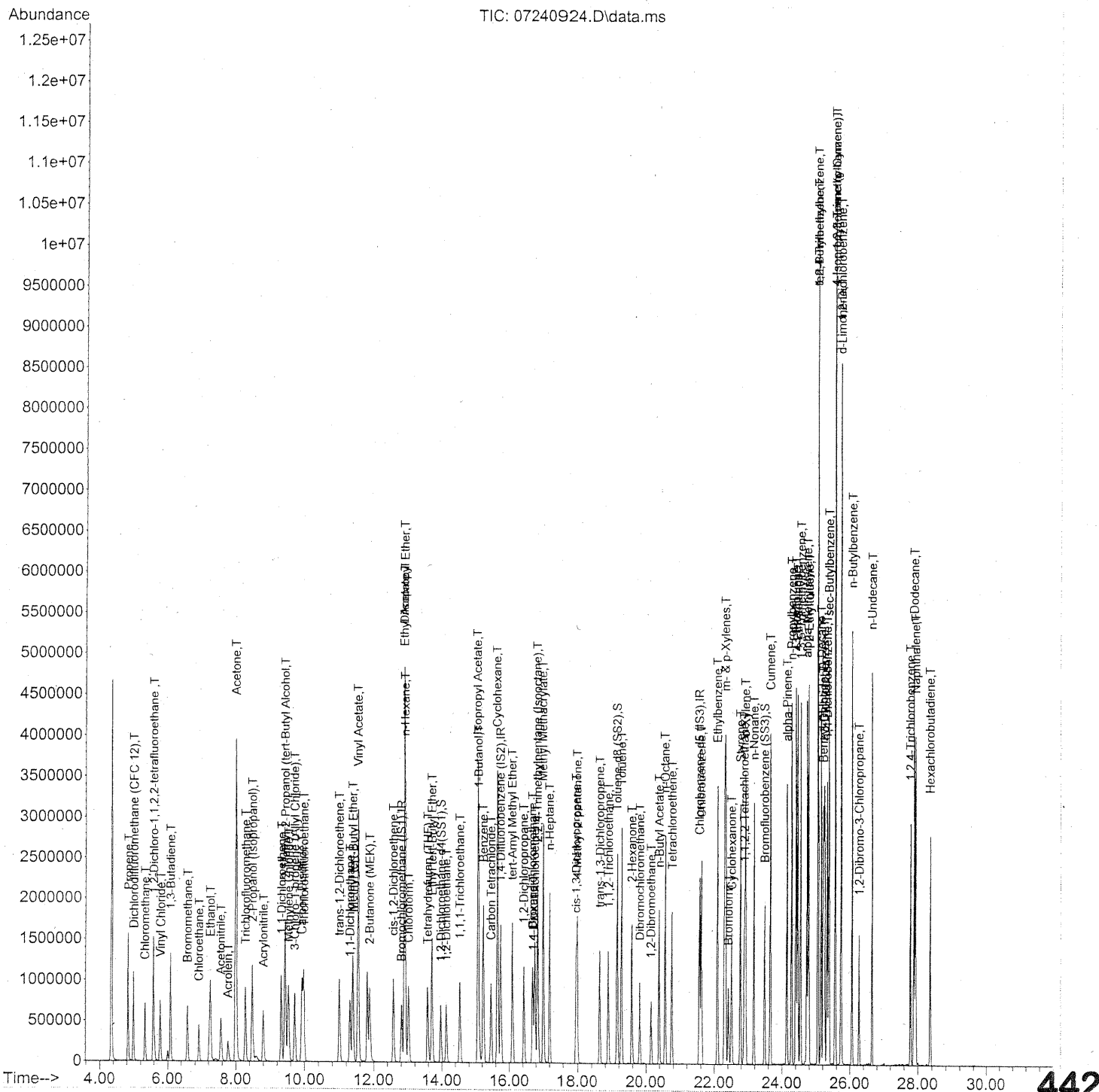
Quant Time: Jul 27 09:14:28 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 08:47:52 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	8186472	204.139	ng	98
81) 2-Ethyltoluene	24.80	105	15963469	163.388	ng	94
82) 1,2,4-Trimethylbenzene	25.07	105	16202949	183.174	ng	88
83) n-Decane	25.17	57	8079119	168.090	ng	99
84) Benzyl Chloride	25.24	91	13541552	204.045	ng	97
85) 1,3-Dichlorobenzene	25.27	146	8372671	208.689	ng	100
86) 1,4-Dichlorobenzene	25.34	146	8211130	199.326	ng	100
87) sec-Butylbenzene	25.39	105	16769219	155.249	ng	91
88) 4-Isopropyltoluene (p-...	25.57	119	17063893	160.507	ng	81
89) 1,2,3-Trimethylbenzene	25.58	105	16550081	191.609	ng	88
90) 1,2-Dichlorobenzene	25.76	146	9459037	235.449	ng	99
91) d-Limonene	25.75	68	7001097	217.891	ng	93
92) 1,2-Dibromo-3-Chloropr...	26.28	157	2578208	208.138	ng	95
93) n-Undecane	26.66	57	8589039	188.286	ng	95
94) 1,2,4-Trichlorobenzene	27.80	180	6065319	253.325	ng	99
95) Naphthalene	27.94	128	17267724	191.352	ng	92
96) n-Dodecane	27.90	57	8903255	177.272	ng	95
97) Hexachlorobutadiene	28.36	225	3526470	234.372	ng	99
98) Cyclohexanone	22.53	55	3939191	139.672	ng	97
99) tert-Butylbenzene	25.07	119	16255159	189.823	ng	93
100) n-Butylbenzene	26.08	91	14857787	164.357	ng	90

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

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240924.D
 Acq On : 25 Jul 2009 2:19
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 27 09:40:01 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240924.D
 Acq On : 25 Jul 2009 2:19
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 27 09:40:01 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.81	130	390307	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1955770	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	925210	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	694801	25.162	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	100.64%	
57) Toluene-d8 (SS2)	19.15	98	2249364	24.574	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	98.28%	
73) Bromofluorobenzene (SS3)	23.49	174	664046	24.131	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	96.52%	

Target Compounds

						Qvalue
2) Propene	4.83	42	699671	28.415	ng	99
3) Dichlorodifluoromethan...	5.00	85	1196935	24.357	ng	99
4) Chloromethane	5.33	50	971167	26.391	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	685329	24.762	ng	99
6) Vinyl Chloride	5.79	62	1015739	25.892	ng	99
7) 1,3-Butadiene	6.08	54	798324	28.303	ng	100
8) Bromomethane	6.58	94	637263	27.539	ng	100
9) Chloroethane	6.92	64	519047	26.445	ng	100
10) Ethanol	7.25	45	2029943m	124.246	ng	
11) Acetonitrile	7.57	41	951679	25.761	ng	100
12) Acrolein	7.78	56	348393	29.250	ng	98
13) Acetone	8.00	58	2433272	130.939	ng	96
14) Trichlorofluoromethane	8.29	101	1053169	24.604	ng	98
15) 2-Propanol (Isopropanol)	8.48	45	2354451m	48.151	ng	
16) Acrylonitrile	8.80	53	773979	31.046	ng	100
17) 1,1-Dichloroethene	9.33	96	610358	28.001	ng	99
18) 2-Methyl-2-Propanol (t...	9.44	59	3094853	56.199	ng	99
19) Methylene Chloride	9.54	84	617467	25.094	ng	97
20) 3-Chloro-1-propene (Al...	9.73	41	821559	30.939	ng	98
21) Trichlorotrifluoroethane	9.98	151	525465	27.062	ng	99
22) Carbon Disulfide	9.93	76	2159012	25.761	ng	98
23) trans-1,2-Dichloroethene	11.00	61	857461	26.822	ng	97
24) 1,1-Dichloroethane	11.31	63	1051998	26.995	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1831119	26.644	ng	99
26) Vinyl Acetate	11.56	86	666906	150.463	ng	98
27) 2-Butanone (MEK)	11.89	72	434722	30.669	ng	99
28) cis-1,2-Dichloroethene	12.57	61	856547	27.766	ng	98
29) Diisopropyl Ether	12.91	87	570990	25.918	ng	# 94
30) Ethyl Acetate	12.90	61	489429	52.715	ng	99
31) n-Hexane	12.93	57	1123730	26.176	ng	99

443

com 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240924.D
 Acq On : 25 Jul 2009 2:19
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 27 09:40:01 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	1022970	26.240	ng	100
34) Tetrahydrofuran (THF)	13.58	72	392055	29.353	ng	100
35) Ethyl tert-Butyl Ether	13.71	87	766494	25.955	ng	96
36) 1,2-Dichloroethane	14.13	62	818178	26.179	ng	99
38) 1,1,1-Trichloroethane	14.54	97	918714	25.611	ng	99
39) Isopropyl Acetate	15.07	61	849495	59.646	ng	# 87
40) 1-Butanol	15.09	56	1330401	54.746	ng	82
41) Benzene	15.23	78	2507224	24.039	ng	99
42) Carbon Tetrachloride	15.46	117	812759	26.531	ng	99
43) Cyclohexane	15.66	84	2012920	51.612	ng	97
44) tert-Amyl Methyl Ether	16.10	73	1831189	26.564	ng	100
45) 1,2-Dichloropropane	16.43	63	594303	27.031	ng	99
46) Bromodichloromethane	16.70	83	819403	27.181	ng	99
47) Trichloroethene	16.77	130	658950	24.722	ng	99
48) 1,4-Dioxane	16.72	88	494612	28.174	ng	96
49) 2,2,4-Trimethylpentane...	16.86	57	2529927	25.032	ng	99
50) Methyl Methacrylate	17.02	100	566120	57.880	ng	97
51) n-Heptane	17.21	71	662286	26.226	ng	100
52) cis-1,3-Dichloropropene	17.95	75	979082	26.769	ng	100
53) 4-Methyl-2-pentanone	17.99	58	590637	29.914	ng	99
54) trans-1,3-Dichloropropene	18.64	75	1007021	31.279	ng	100
55) 1,1,2-Trichloroethane	18.89	97	586389	26.761	ng	99
58) Toluene	19.28	91	2800409	24.993	ng	100
59) 2-Hexanone	19.58	43	1412487	29.311	ng	100
60) Dibromochloromethane	19.82	129	707041	28.062	ng	100
61) 1,2-Dibromoethane	20.15	107	683634	26.341	ng	100
62) n-Butyl Acetate	20.39	43	1609900	30.050	ng	99
63) n-Octane	20.56	57	579035	26.446	ng	99
64) Tetrachloroethene	20.76	166	688471	23.239	ng	99
65) Chlorobenzene	21.62	112	1755751	24.909	ng	100
66) Ethylbenzene	22.09	91	3132202	25.706	ng	99
67) m- & p-Xylenes	22.33	91	5041070	50.172	ng	100
68) Bromoform	22.42	173	574106	25.570	ng	100
69) Styrene	22.77	104	1967625	26.556	ng	100
70) o-Xylene	22.92	91	2535736	25.333	ng	99
71) n-Nonane	23.18	43	1290344	26.404	ng	99
72) 1,1,2,2-Tetrachloroethane	22.89	83	1118302	26.863	ng	99
74) Cumene	23.66	105	3201636	24.086	ng	100
75) alpha-Pinene	24.15	93	1574755	24.789	ng	99
76) n-Propylbenzene	24.28	91	4005576	25.017	ng	100
77) 3-Ethyltoluene	24.41	105	3333668	26.465	ng	99
78) 4-Ethyltoluene	24.46	105	3166673	25.050	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	2741541	26.078	ng	100

EM 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240924.D
 Acq On : 25 Jul 2009 2:19
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 27 09:40:01 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	1546311	26.294	ng	99
81) 2-Ethyltoluene	24.79	105	3302217	25.024	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	3126958	26.594	ng	99
83) n-Decane	25.15	57	1543368	27.171	ng	98
84) Benzyl Chloride	25.22	91	2480149	29.427	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1542524	24.993	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1559800	24.256	ng	99
87) sec-Butylbenzene	25.38	105	3764147	25.606	ng	100
88) 4-Isopropyltoluene (p-...	25.57	119	3812561	25.725	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	3157630	26.372	ng	98
90) 1,2-Dichlorobenzene	25.75	146	1557074	24.272	ng	100
91) d-Limonene	25.74	68	1289645	27.607	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.27	157	492179	27.319	ng	95
93) n-Undecane	26.65	57	1591265	27.360	ng	100
94) 1,2,4-Trichlorobenzene	27.79	180	1000544	24.172	ng	99
95) Naphthalene	27.94	128	3439547	23.839	ng	100
96) n-Dodecane	27.89	57	1538465	24.754	ng	99
97) Hexachlorobutadiene	28.36	225	584325	24.674	ng	99
98) Cyclohexanone	22.51	55	838650	24.814	ng	99
99) tert-Butylbenzene	25.05	119	3051414	25.678	ng	100
100) n-Butylbenzene	26.07	91	3104805	26.523	ng	100

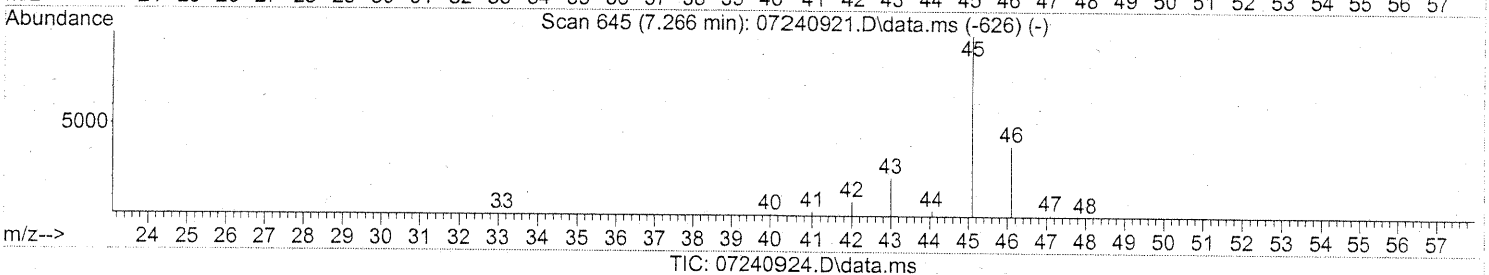
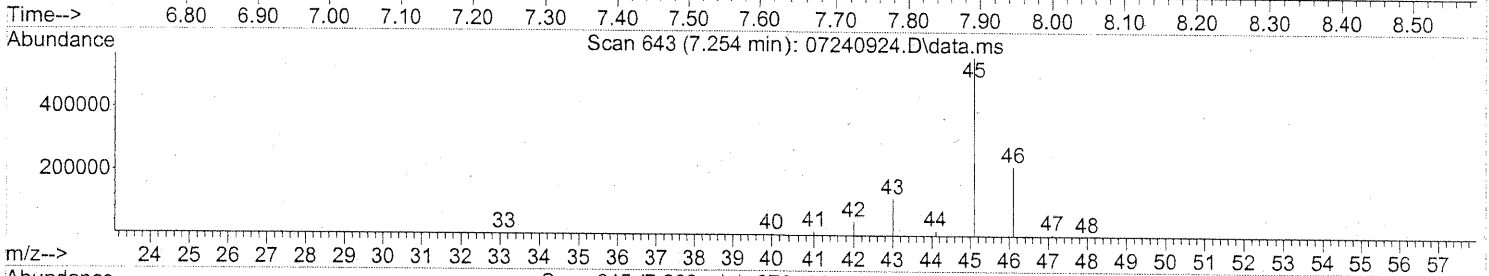
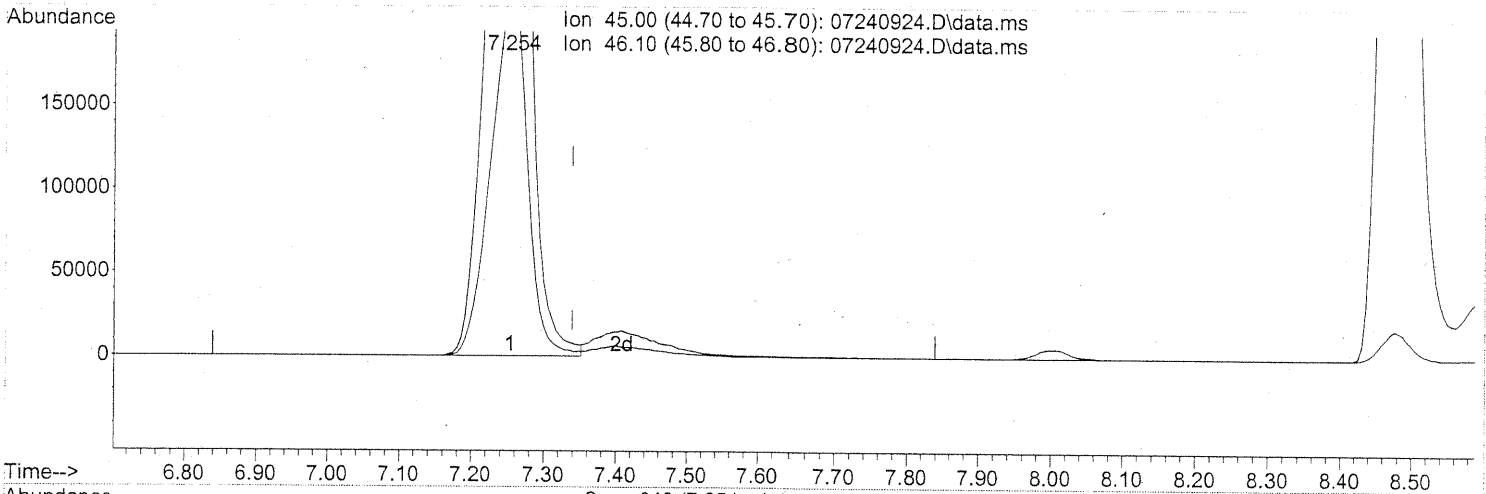
(#) = qualifier out of range (m) = manual integration (+) = signals summed

EM 7/27/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240924.D
 Acq On : 25 Jul 2009 2:19
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 27 09:38:39 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.254min (-0.086) 118.25ng
 response 1931965

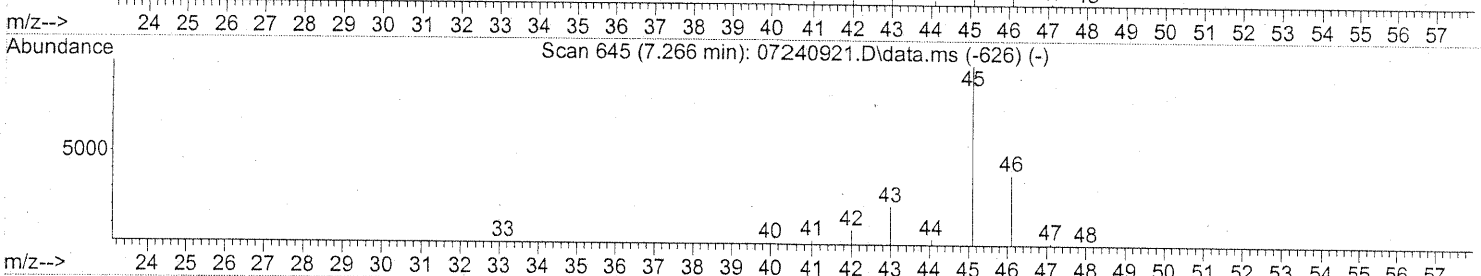
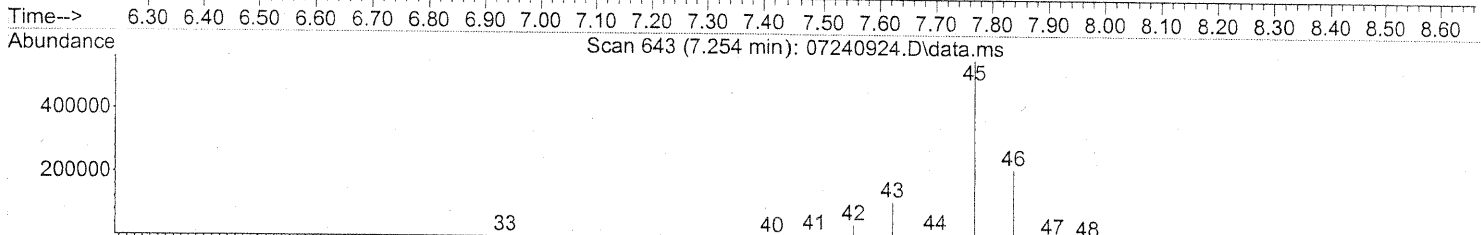
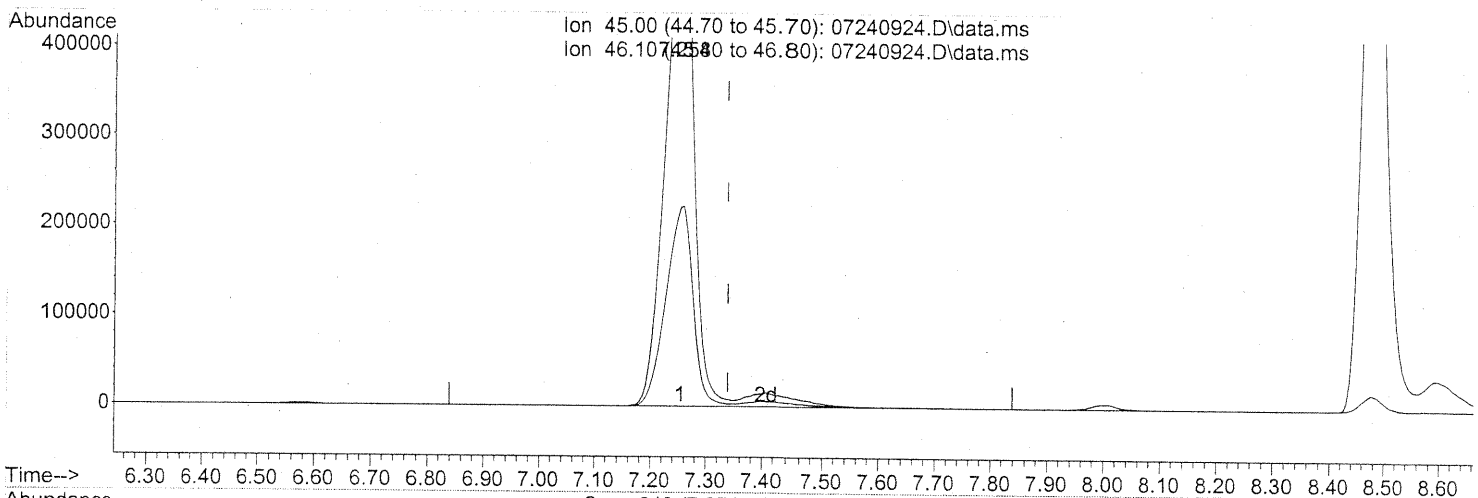
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.98
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240924.D
 Acq On : 25 Jul 2009 2:19
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200901/S20-07240915
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 27 09:40:01 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.254min (-0.086) 124.25ng m

response 2029943

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.10
0.00	0.00	0.00
0.00	0.00	0.00

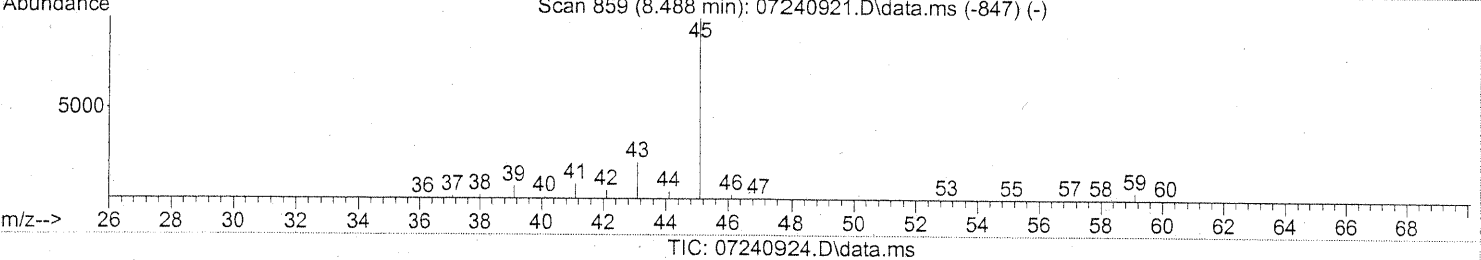
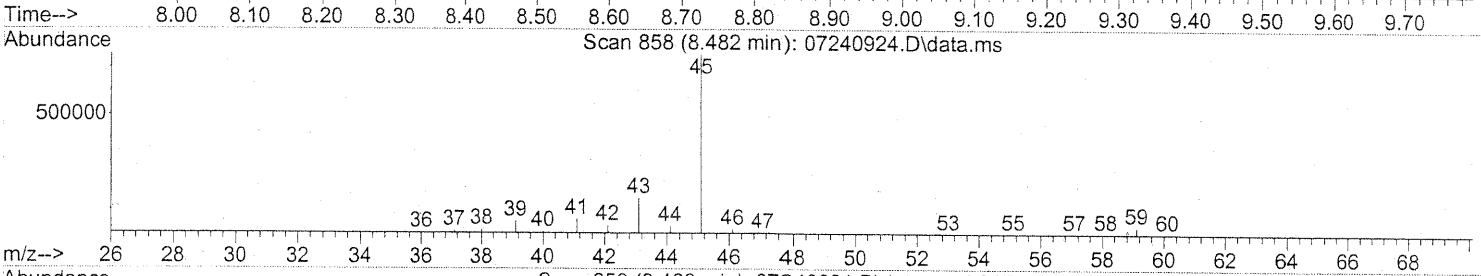
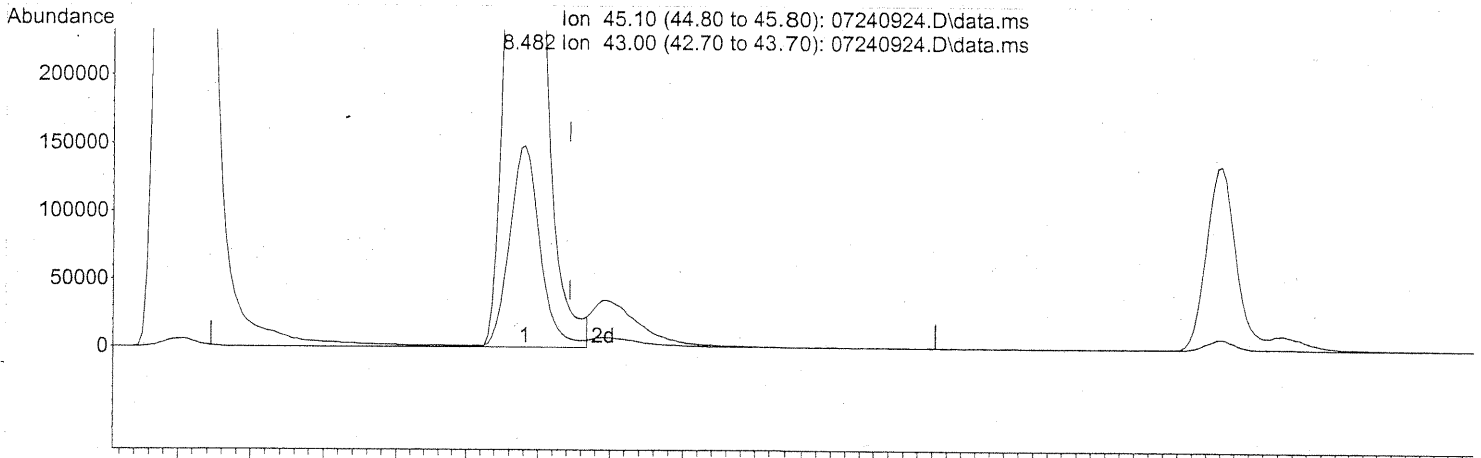
PT → TIC

EM 7/27/09

— 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
Data File : 07240924.D
Acq On : 25 Jul 2009 2:19
Operator : EM
Sample : 25ng TO-15 ICV STD
Misc : S20-07200901/S20-07240915
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 27 09:38:39 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.482min (-0.063) 44.79ng

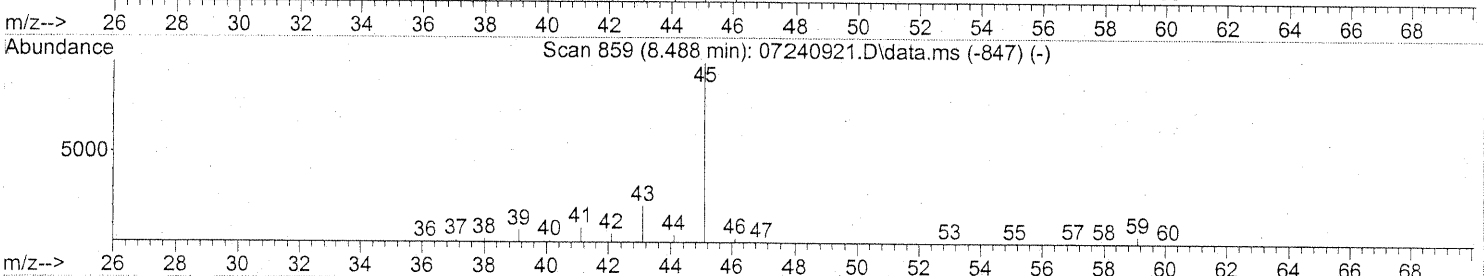
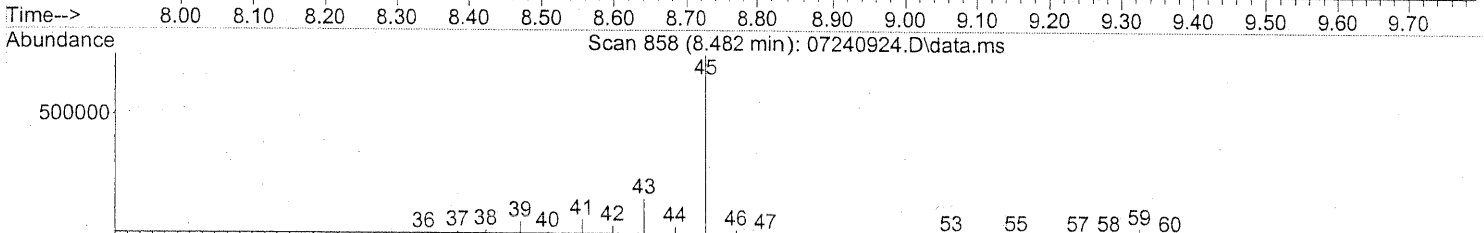
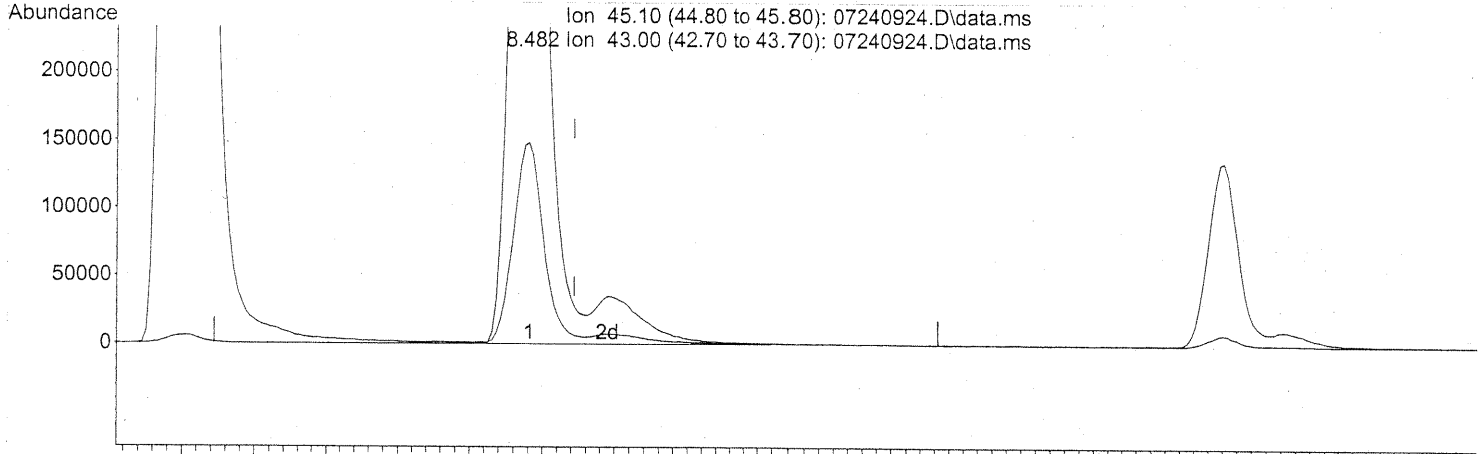
response 2190235

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.68
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 7/27/09

Data Path : J:\MS09\Data\2009_07\24\
Data File : 07240924.D
Acq On : 25 Jul 2009 2:19
Operator : EM
Sample : 25ng TO-15 ICV STD
Misc : S20-07200901/S20-07240915
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 27 09:38:39 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.482min (-0.063) 48.15ng m

response 2354451

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	18.31
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

Em 7/27/09

7/27/09

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 07240924.D

Acq. Method File: TO15LOW.M

Data File Path: J:\MS09\Data\2009_07\24\

Name: 25ng TO-15 ICV STD

Operator: EM

Misc Info: S20-07200901/S20-07240915

Date Acquired: 7/25/09 2:19

Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.83	28.4	26.3	108.0	70	130	*
3)	Dichlorodifluoromethane (CFC)	5.00	24.4	26.0	93.8	70	130	*
4)	Chloromethane	5.33	26.4	25.0	105.6	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.59	24.8	26.0	95.4	70	130	*
6)	Vinyl Chloride	5.79	25.9	25.3	102.4	70	130	*
7)	1,3-Butadiene	6.08	28.3	26.8	105.6	70	130	*
8)	Bromomethane	6.58	27.5	25.8	106.6	70	130	*
9)	Chloroethane	6.92	26.4	25.5	103.5	70	130	*
10)	Ethanol	7.25	124.2	130.0	95.5	70	130	*
11)	Acetonitrile	7.57	25.8	26.0	99.2	70	130	*
12)	Acrolein	7.78	29.3	26.3	111.4	70	130	*
13)	Acetone	8.00	130.9	132.0	99.2	70	130	*
14)	Trichlorofluoromethane	8.29	24.6	26.3	93.5	70	130	*
15)	2-Propanol (Isopropanol)	8.48	48.2	48.0	100.4	70	130	*
16)	Acrylonitrile	8.80	31.0	25.8	120.2	70	130	*
17)	1,1-Dichloroethene	9.33	28.0	27.5	101.8	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.44	56.2	50.0	112.4	70	130	*
19)	Methylene Chloride	9.54	25.1	26.8	93.7	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.73	30.9	27.0	114.4	70	130	*
21)	Trichlorotrifluoroethane	9.98	27.1	27.5	98.5	70	130	*
22)	Carbon Disulfide	9.93	25.8	26.0	99.2	70	130	*
23)	trans-1,2-Dichloroethene	11.00	26.8	25.5	105.1	70	130	*
24)	1,1-Dichloroethane	11.31	27.0	26.5	101.9	70	130	*
25)	Methyl tert-Butyl Ether	11.40	26.6	26.3	101.1	70	130	*
26)	Vinyl Acetate	11.56	150.5	126.0	119.4	70	130	*
27)	2-Butanone (MEK)	11.89	30.7	26.8	114.6	70	130	*
28)	cis-1,2-Dichloroethene	12.57	27.8	27.0	103.0	70	130	*
29)	Diisopropyl Ether	12.91	25.9	26.5	97.7	70	130	*
30)	Ethyl Acetate	12.90	52.7	52.0	101.3	70	130	*
31)	n-Hexane	12.93	26.2	26.0	100.8	70	130	*
32)	Chloroform	13.02	26.2	27.5	95.3	70	130	*
34)	Tetrahydrofuran (THF)	13.58	29.4	26.5	110.9	70	130	*
35)	Ethyl tert-Butyl Ether	13.71	26.0	25.5	102.0	70	130	*
36)	1,2-Dichloroethane	14.13	26.2	26.3	99.6	70	130	*
38)	1,1,1-Trichloroethane	14.54	25.6	26.0	98.5	70	130	*
39)	Isopropyl Acetate	15.07	59.6	52.3	114.0	70	130	*
40)	1-Butanol	15.09	54.7	52.8	103.6	70	130	*
41)	Benzene	15.23	24.0	25.8	93.0	70	130	*
42)	Carbon Tetrachloride	15.46	26.5	26.3	100.8	70	130	*
43)	Cyclohexane	15.66	51.6	51.8	99.6	70	130	*
44)	tert-Amyl Methyl Ether	16.10	26.6	25.5	104.3	70	130	*
45)	1,2-Dichloropropane	16.43	27.0	26.0	103.8	70	130	*
46)	Bromodichloromethane	16.70	27.2	26.3	103.4	70	130	*
47)	Trichloroethene	16.77	24.7	25.8	95.7	70	130	*
48)	1,4-Dioxane	16.72	28.2	26.0	108.5	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.86	25.0	25.8	96.9	70	130	*
50)	Methyl Methacrylate	17.02	57.9	52.8	109.7	70	130	*

EM 7/27/09

450

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 07240924.D

Acq. Method File: TO15LOW.M

Data File Path: J:\MS09\Data\2009_07\24\

Name: 25ng TO-15 ICV STD

Operator: EM

Misc Info: S20-07200901/S20-07240915

Date Acquired: 7/25/09 2:19

Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	17.21	26.2	25.8	101.6	70	130	*
52)	cis-1,3-Dichloropropene	17.95	26.8	24.5	109.4	70	130	*
53)	4-Methyl-2-pentanone	17.99	29.9	26.8	111.6	70	130	*
54)	trans-1,3-Dichloropropene	18.64	31.3	27.0	115.9	70	130	*
55)	1,1,2-Trichloroethane	18.89	26.8	26.0	103.1	70	130	*
58)	Toluene	19.28	25.0	26.8	93.3	70	130	*
59)	2-Hexanone	19.58	29.3	27.0	108.5	70	130	*
60)	Dibromochloromethane	19.82	28.1	28.3	99.3	70	130	*
61)	1,2-Dibromoethane	20.15	26.3	26.3	100.0	70	130	*
62)	n-Butyl Acetate	20.39	30.1	27.5	109.5	70	130	*
63)	n-Octane	20.56	26.4	26.3	100.4	70	130	*
64)	Tetrachloroethene	20.76	23.2	25.3	91.7	70	130	*
65)	Chlorobenzene	21.62	24.9	26.5	94.0	70	130	*
66)	Ethylbenzene	22.09	25.7	26.3	97.7	70	130	*
67)	m- & p-Xylenes	22.33	50.2	51.5	97.5	70	130	*
68)	Bromoform	22.42	25.6	26.5	96.6	70	130	*
69)	Styrene	22.77	26.6	26.3	101.1	70	130	*
70)	o-Xylene	22.92	25.3	26.0	97.3	70	130	*
71)	n-Nonane	23.18	26.4	25.8	102.3	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.89	26.9	27.0	99.6	70	130	*
74)	Cumene	23.66	24.1	25.3	95.3	70	130	*
75)	alpha-Pinene	24.15	24.8	24.8	100.0	70	130	*
76)	n-Propylbenzene	24.28	25.0	25.3	98.8	70	130	*
77)	3-Ethyltoluene	24.41	26.5	26.3	100.8	70	130	*
78)	4-Ethyltoluene	24.46	25.1	26.3	95.4	70	130	*
79)	1,3,5-Trimethylbenzene	24.55	26.1	26.5	98.5	70	130	*
80)	alpha-Methylstyrene	24.74	26.3	26.0	101.2	70	130	*
81)	2-Ethyltoluene	24.79	25.0	26.0	96.2	70	130	*
82)	1,2,4-Trimethylbenzene	25.05	26.6	25.5	104.3	70	130	*
83)	n-Decane	25.15	27.2	26.3	103.4	70	130	*
84)	Benzyl Chloride	25.22	29.4	26.8	109.7	70	130	*
85)	1,3-Dichlorobenzene	25.25	25.0	26.0	96.2	70	130	*
86)	1,4-Dichlorobenzene	25.33	24.3	26.3	92.4	70	130	*
87)	sec-Butylbenzene	25.38	25.6	25.8	99.2	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.57	25.7	25.0	102.8	70	130	*
89)	1,2,3-Trimethylbenzene	25.57	26.4	26.0	101.5	70	130	*
90)	1,2-Dichlorobenzene	25.75	24.3	25.8	94.2	70	130	*
91)	d-Limonene	25.74	27.6	26.5	104.2	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.27	27.3	27.0	101.1	70	130	*
93)	n-Undecane	26.65	27.4	26.3	104.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.79	24.2	27.3	88.6	70	130	*
95)	Naphthalene	27.94	23.8	25.0	95.2	70	130	*
96)	n-Dodecane	27.89	24.8	24.3	102.1	70	130	*
97)	Hexachlorobutadiene	28.36	24.7	26.8	92.2	70	130	*
98)	Cyclohexanone	22.51	24.8	24.8	100.0	70	130	*
99)	tert-Butylbenzene	25.05	25.7	26.5	97.0	70	130	*
100)	n-Butylbenzene	26.07	26.5	26.5	100.0	70	130	*

* Denotes Passing Criterion

em 7/27/09

451

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:49:37 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 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	106	-0.02
2	T Propene	1.577	1.719	-9.0	126	0.00
3	T Dichlorodifluoromethane (CF	3.148	2.843	9.7	106	0.00
4	T Chloromethane	2.357	2.185	7.3	106	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.773	1.499	15.5	98	0.00
6	T Vinyl Chloride	2.513	2.211	12.0	101	-0.01
7	T 1,3-Butadiene	1.807	1.775	1.8	109	-0.01
8	T Bromomethane	1.482	1.323	10.7	96	-0.02
9	T Chloroethane	1.257	1.061	15.6	95	-0.01
10	T Ethanol	1.046	1.029	1.6	111	-0.08
11	T Acetonitrile	2.366	2.264	4.3	110	-0.05
12	T Acrolein	0.763	0.778	-2.0	108	-0.02
13	T Acetone	1.190	1.122	5.7	109	-0.04
14	T Trichlorofluoromethane	2.742	2.460	10.3	99	-0.01
15	T 2-Propanol (Isopropanol)	3.132	2.901	7.4	101	-0.06
16	T Acrylonitrile	1.597	1.836	-15.0	110	-0.03
17	T 1,1-Dichloroethene	1.396	1.321	5.4	101	-0.02
18	T 2-Methyl-2-Propanol (tert-B	3.527	3.715	-5.3	102	-0.04
19	T Methylene Chloride	1.576	1.391	11.7	103	-0.02
20	T 3-Chloro-1-propene (Allyl C	1.701	1.928	-13.3	112	-0.02
21	T Trichlorotrifluoroethane	1.244	1.171	5.9	99	-0.02
22	T Carbon Disulfide	5.368	5.079	5.4	104	-0.02
23	T trans-1,2-Dichloroethene	2.048	1.990	2.8	103	-0.02
24	T 1,1-Dichloroethane	2.496	2.400	3.8	104	-0.01
25	T Methyl tert-Butyl Ether	4.402	4.140	6.0	100	-0.01
26	T Vinyl Acetate	0.284	0.347	-22.2	109	-0.03
27	T 2-Butanone (MEK)	0.908	1.045	-15.1	107	-0.03
28	T cis-1,2-Dichloroethene	1.976	1.907	3.5	103	-0.01
29	T Diisopropyl Ether	1.411	1.328	5.9	100	-0.02
30	T Ethyl Acetate	0.595	0.594	0.2	105	-0.03
31	T n-Hexane	2.750	2.620	4.7	104	-0.01
32	T Chloroform	2.497	2.322	7.0	100	-0.03
33	S 1,2-Dichloroethane-d4 (SS1)	1.769	1.741	1.6	106	-0.02
34	T Tetrahydrofuran (THF)	0.856	0.926	-8.2	106	-0.01
35	T Ethyl tert-Butyl Ether	1.892	1.831	3.2	100	-0.01
36	T 1,2-Dichloroethane	2.002	1.874	6.4	99	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	106	-0.01
38	T 1,1,1-Trichloroethane	0.459	0.424	7.6	98	-0.01

453

Em 8/4/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:49:37 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 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	0.182	0.204	-12.1	105	-0.03
40 T	1-Butanol	0.311	0.344	-10.6	103	-0.06
41 T	Benzene	1.333	1.189	10.8	102	-0.01
42 T	Carbon Tetrachloride	0.392	0.367	6.4	97	-0.01
43 T	Cyclohexane	0.499	0.477	4.4	101	-0.02
44 T	tert-Amyl Methyl Ether	0.881	0.874	0.8	101	-0.01
45 T	1,2-Dichloropropane	0.281	0.280	0.4	103	-0.02
46 T	Bromodichloromethane	0.385	0.382	0.8	99	-0.01
47 T	Trichloroethene	0.341	0.310	9.1	98	-0.02
48 T	1,4-Dioxane	0.224	0.240	-7.1	100	-0.02
49 T	2,2,4-Trimethylpentane (Iso	1.292	1.232	4.6	104	-0.02
50 T	Methyl Methacrylate	0.125	0.134	-7.2	101	-0.02
51 T	n-Heptane	0.323	0.322	0.3	103	-0.01
52 T	cis-1,3-Dichloropropene	0.468	0.489	-4.5	102	0.00
53 T	4-Methyl-2-pentanone	0.252	0.279	-10.7	103	-0.02
54 T	trans-1,3-Dichloropropene	0.412	0.455	-10.4	101	-0.02
55 T	1,1,2-Trichloroethane	0.280	0.278	0.7	101	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	109	0.00
57 S	Toluene-d8 (SS2)	2.473	2.414	2.4	108	-0.01
58 T	Toluene	3.028	2.714	10.4	102	-0.01
59 T	2-Hexanone	1.302	1.423	-9.3	103	-0.02
60 T	Dibromochloromethane	0.681	0.655	3.8	98	-0.01
61 T	1,2-Dibromoethane	0.701	0.672	4.1	100	-0.01
62 T	n-Butyl Acetate	1.448	1.598	-10.4	103	-0.02
63 T	n-Octane	0.592	0.574	3.0	104	-0.01
64 T	Tetrachloroethene	0.801	0.711	11.2	98	0.00
65 T	Chlorobenzene	1.905	1.705	10.5	100	-0.01
66 T	Ethylbenzene	3.292	3.080	6.4	100	-0.01
67 T	m- & p-Xylenes	2.715	2.542	6.4	99	-0.02
68 T	Bromoform	0.607	0.610	-0.5	97	-0.01
69 T	Styrene	2.002	1.955	2.3	99	-0.01
70 T	o-Xylene	2.705	2.525	6.7	99	-0.01
71 T	n-Nonane	1.320	1.341	-1.6	105	0.00
72 T	1,1,2,2-Tetrachloroethane	1.125	1.139	-1.2	103	-0.02
73 S	Bromofluorobenzene (SS3)	0.744	0.734	1.3	106	0.00
74 T	Cumene	3.592	3.327	7.4	99	-0.01
75 T	alpha-Pinene	1.717	1.657	3.5	99	0.00
76 T	n-Propylbenzene	4.326	4.223	2.4	99	0.00

454

Em 8/4/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:49:37 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 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	3.404	3.313	2.7	99	-0.01
78 T	4-Ethyltoluene	3.416	3.230	5.4	98	-0.01
79 T	1,3,5-Trimethylbenzene	2.841	2.705	4.8	99	-0.01
80 T	alpha-Methylstyrene	1.589	1.583	0.4	98	-0.01
81 T	2-Ethyltoluene	3.566	3.454	3.1	99	-0.01
82 T	1,2,4-Trimethylbenzene	3.177	3.172	0.2	97	-0.01
83 T	n-Decane	1.535	1.606	-4.6	103	-0.01
84 T	Benzyl Chloride	2.277	2.619	-15.0	102	-0.02
85 T	1,3-Dichlorobenzene	1.668	1.552	7.0	99	-0.02
86 T	1,4-Dichlorobenzene	1.738	1.617	7.0	99	-0.01
87 T	sec-Butylbenzene	3.972	3.904	1.7	99	0.00
88 T	4-Isopropyltoluene (p-Cymen	4.005	4.034	-0.7	96	0.00
89 T	1,2,3-Trimethylbenzene	3.235	3.238	-0.1	97	0.00
90 T	1,2-Dichlorobenzene	1.733	1.627	6.1	99	-0.01
91 T	d-Limonene	1.262	1.304	-3.3	99	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.487	0.530	-8.8	106	0.00
93 T	n-Undecane	1.572	1.663	-5.8	105	-0.01
94 T	1,2,4-Trichlorobenzene	1.118	1.105	1.2	115	-0.01
95 T	Naphthalene	3.899	4.160	-6.7	119	0.00
96 T	n-Dodecane	1.679	1.862	-10.9	115	0.00
97 T	Hexachlorobutadiene	0.640	0.624	2.5	111	0.00
98 T	Cyclohexanone	0.913	0.953	-4.4	104	-0.02
99 T	tert-Butylbenzene	3.211	3.101	3.4	96	-0.01
100 T	n-Butylbenzene	3.163	3.200	-1.2	100	0.00

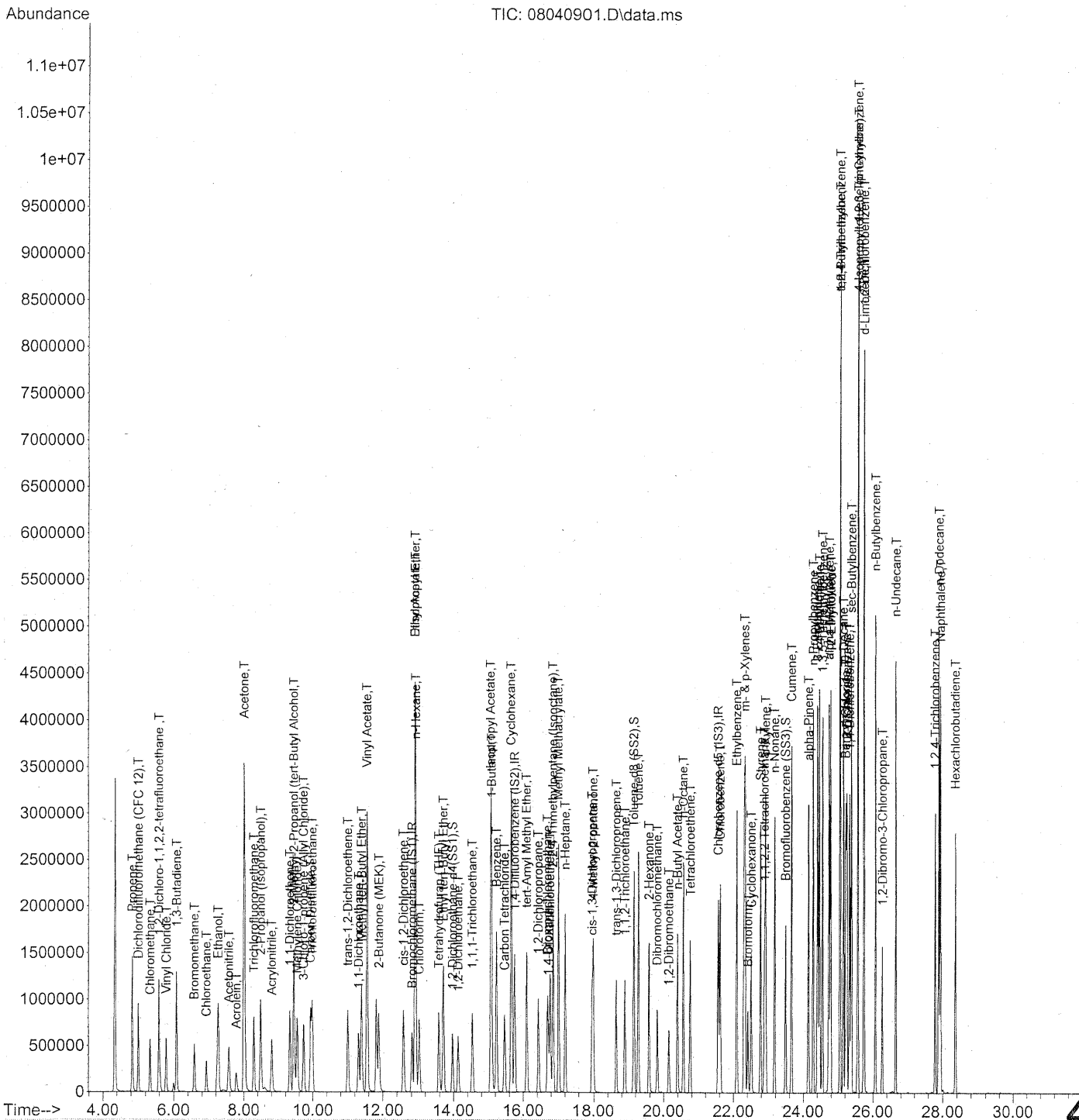
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

em 8/4/09

Data Path : J:\MS09\Data\2009_08\04\
Data File : 08040901.D
Acq On : 4 Aug 2009 3:53
Operator : EM
Sample : 25ng TO-15 CCV STD
Misc : S20-07200901/S20-07240905
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:49:37 2009
Quant Method : J:\MS09\Methods\R9072409.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:49:37 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	356266	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.76	114	1773398	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.56	82	857244	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	620305	24.610	ng	-0.02	
Spiked Amount	25.000		Recovery	=	98.44%		✓
57) Toluene-d8 (SS2)	19.15	98	2069430	24.401	ng	-0.01	✓
Spiked Amount	25.000		Recovery	=	97.60%		
73) Bromofluorobenzene (SS3)	23.49	174	629135	24.675	ng	0.00	✓
Spiked Amount	25.000		Recovery	=	98.68%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	656326	29.202	ng	98
3) Dichlorodifluoromethan...	5.00	85	1065635	23.757	ng	100
4) Chloromethane	5.33	50	778422	23.175	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	566018	22.405	ng	100
6) Vinyl Chloride	5.79	62	797144	22.261	ng	99
7) 1,3-Butadiene	6.08	54	758829	29.474	ng	99
8) Bromomethane	6.58	94	480815	22.763	ng	100
9) Chloroethane	6.93	64	382560	21.353	ng	100
10) Ethanol	7.26	45	1906673m	127.852	ng	
11) Acetonitrile	7.57	41	848528	25.163	ng	100
12) Acrolein	7.79	56	299314	27.531	ng	97
13) Acetone	8.01	58	2207082	130.115	ng	96
14) Trichlorofluoromethane	8.29	101	921976	23.598	ng	98
15) 2-Propanol (Isopropanol)	8.48	45	1955473m	43.812	ng	
16) Acrylonitrile	8.81	53	693340	30.469	ng	99
17) 1,1-Dichloroethene	9.32	96	517863	26.028	ng	100
18) 2-Methyl-2-Propanol (t...	9.44	59	2673567	53.187	ng	99
19) Methylene Chloride	9.54	84	531421	23.661	ng	96
20) 3-Chloro-1-propene (Al...	9.73	41	741882	30.608	ng	97
21) Trichlorotrifluoroethane	9.98	151	458938	25.894	ng	99
22) Carbon Disulfide	9.93	76	1939754	25.356	ng	98
23) trans-1,2-Dichloroethene	11.00	61	751337	25.748	ng	98
24) 1,1-Dichloroethane	11.32	63	906158	25.475	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1610685	25.676	ng	99
26) Vinyl Acetate	11.56	86	623878	154.205	ng	# 94
27) 2-Butanone (MEK)	11.89	72	409659	31.663	ng	98
28) cis-1,2-Dichloroethene	12.58	61	742078	26.353	ng	98
29) Diisopropyl Ether	12.91	87	507367	25.231	ng	# 88
30) Ethyl Acetate	12.91	61	451122	53.232	ng	98
31) n-Hexane	12.93	57	1019317	26.012	ng	98

457

Em 8/4/09

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:49:37 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.03	83	886638	24.916	ng	100
34) Tetrahydrofuran (THF)	13.58	72	363006	29.775	ng	99
35) Ethyl tert-Butyl Ether	13.71	87	673096	24.970	ng	95
36) 1,2-Dichloroethane	14.13	62	707760	24.810	ng	99
38) 1,1,1-Trichloroethane	14.54	97	790533	24.304	ng	100
39) Isopropyl Acetate	15.07	61	756640	58.590	ng	# 85
40) 1-Butanol	15.09	56	1265424	57.427	ng	85
41) Benzene	15.23	78	2235991	23.643	ng	99
42) Carbon Tetrachloride	15.46	117	703488	25.325	ng	99
43) Cyclohexane	15.66	84	1819366	51.447	ng	96
44) tert-Amyl Methyl Ether	16.10	73	1611797	25.786	ng	99
45) 1,2-Dichloropropane	16.43	63	521483	26.158	ng	98
46) Bromodichloromethane	16.70	83	731594	26.764	ng	99
47) Trichloroethene	16.77	130	583279	24.133	ng	100
48) 1,4-Dioxane	16.72	88	456147	28.655	ng	96
49) 2,2,4-Trimethylpentane...	16.86	57	2273101	24.804	ng	98
50) Methyl Methacrylate	17.02	100	507425	57.214	ng	95
51) n-Heptane	17.21	71	606026	26.466	ng	99
52) cis-1,3-Dichloropropene	17.95	75	860153	25.936	ng	100
53) 4-Methyl-2-pentanone	17.99	58	545136	30.449	ng	100
54) trans-1,3-Dichloropropene	18.64	75	887051	30.387	ng	100
55) 1,1,2-Trichloroethane	18.89	97	518193	26.081	ng	100
58) Toluene	19.28	91	2512438	24.201	ng	100
59) 2-Hexanone	19.58	43	1342050	30.057	ng	100
60) Dibromochloromethane	19.82	129	646639	27.700	ng	100
61) 1,2-Dibromoethane	20.15	107	610966	25.407	ng	99
62) n-Butyl Acetate	20.39	43	1506838	30.357	ng	100
63) n-Octane	20.56	57	527351	25.995	ng	98
64) Tetrachloroethene	20.76	166	621819	22.653	ng	99
65) Chlorobenzene	21.62	112	1578852	24.176	ng	100
66) Ethylbenzene	22.09	91	2798534	24.789	ng	99
67) m- & p-Xylenes	22.33	91	4531967	48.681	ng	100
68) Bromoform	22.42	173	540021	25.959	ng	100
69) Styrene	22.77	104	1796450	26.168	ng	100
70) o-Xylene	22.92	91	2294729	24.743	ng	99
71) n-Nonane	23.18	43	1218865	26.919	ng	98
72) 1,1,2,2-Tetrachloroethane	22.89	83	1046922	27.142	ng	99
74) Cumene	23.66	105	2943673	23.901	ng	99
75) alpha-Pinene	24.15	93	1437634	24.425	ng	99
76) n-Propylbenzene	24.28	91	3736090	25.184	ng	100
77) 3-Ethyltoluene	24.41	105	3101118	26.570	ng	99
78) 4-Ethyltoluene	24.46	105	3024072	25.819	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	2531763	25.992	ng	100

458

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:49:37 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

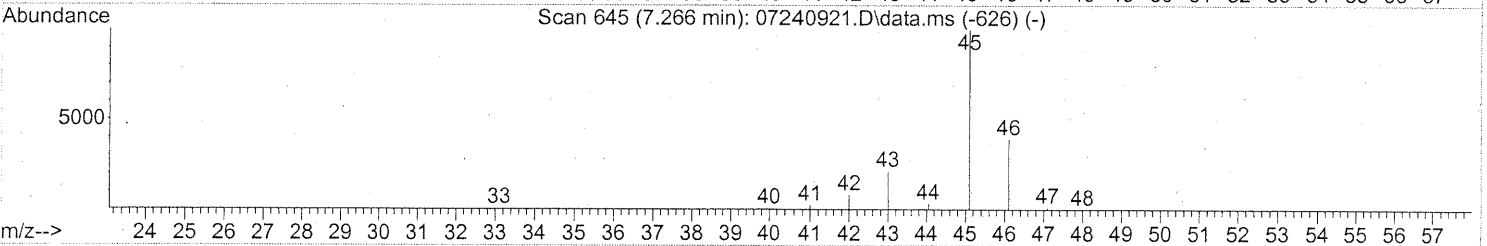
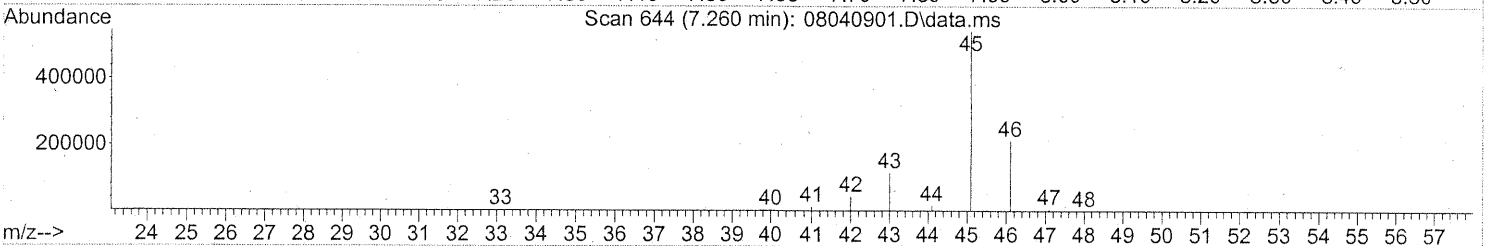
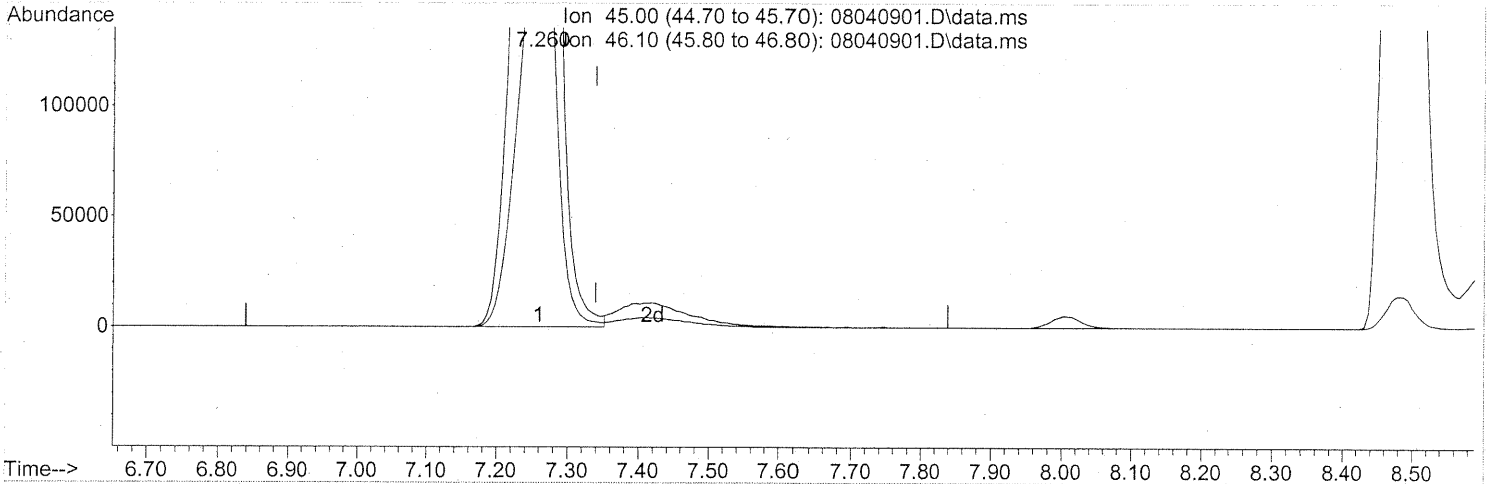
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1454380	26.692	ng	99
81) 2-Ethyltoluene	24.79	105	3114758	25.475	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	2882767	26.461	ng	99
83) n-Decane	25.16	57	1486603	28.246	ng	98
84) Benzyl Chloride	25.22	91	2469765	31.628	ng	100
85) 1,3-Dichlorobenzene	25.25	146	1453130	25.411	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1469692	24.667	ng	99
87) sec-Butylbenzene	25.38	105	3547791	26.048	ng	100
88) 4-Isopropyltoluene (p-...	25.57	119	3568575	25.988	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2975291	26.819	ng	98
90) 1,2-Dichlorobenzene	25.75	146	1478232	24.870	ng	100
91) d-Limonene	25.74	68	1220784	28.205	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.27	157	499849	29.945	ng	97
93) n-Undecane	26.65	57	1557139	28.896	ng	99
94) 1,2,4-Trichlorobenzene	27.79	180	1061208	27.670	ng	99
95) Naphthalene	27.94	128	3779741	28.273	ng	100
96) n-Dodecane	27.89	57	1583494	27.498	ng	99
97) Hexachlorobutadiene	28.36	225	588507	26.821	ng	99
98) Cyclohexanone	22.51	55	800883	25.575	ng	98
99) tert-Butylbenzene	25.05	119	2817383	25.588	ng	100
100) n-Butylbenzene	26.07	91	2995845	27.621	ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:14:23 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040901.D\data.ms

(10) Ethanol (T)

7.260min (-0.080) 122.63ng

response 1828758

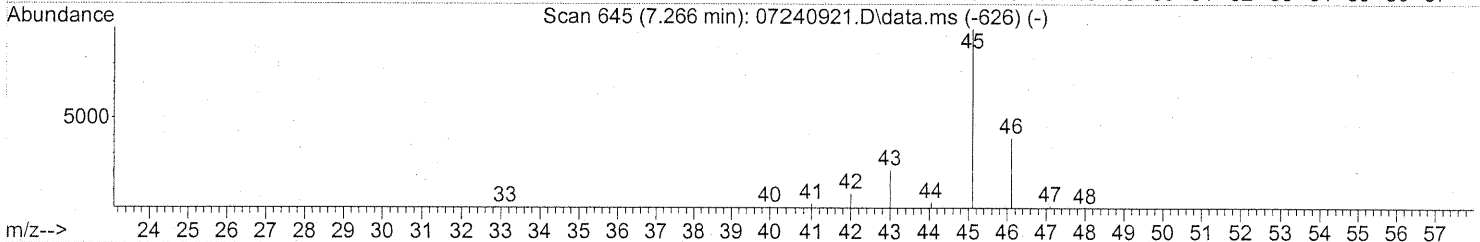
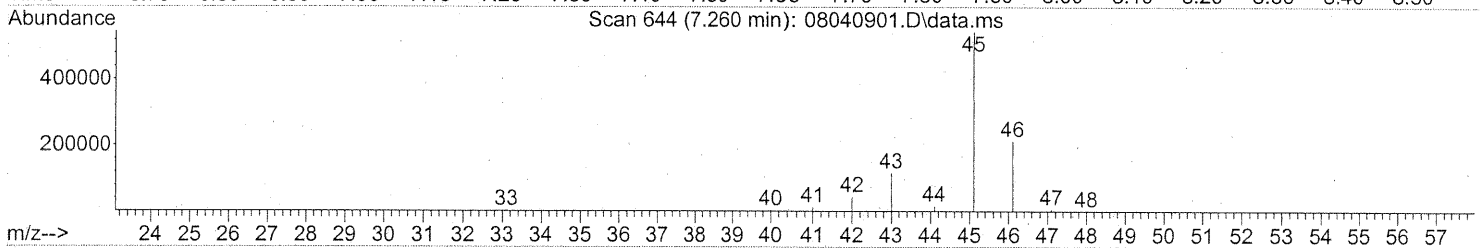
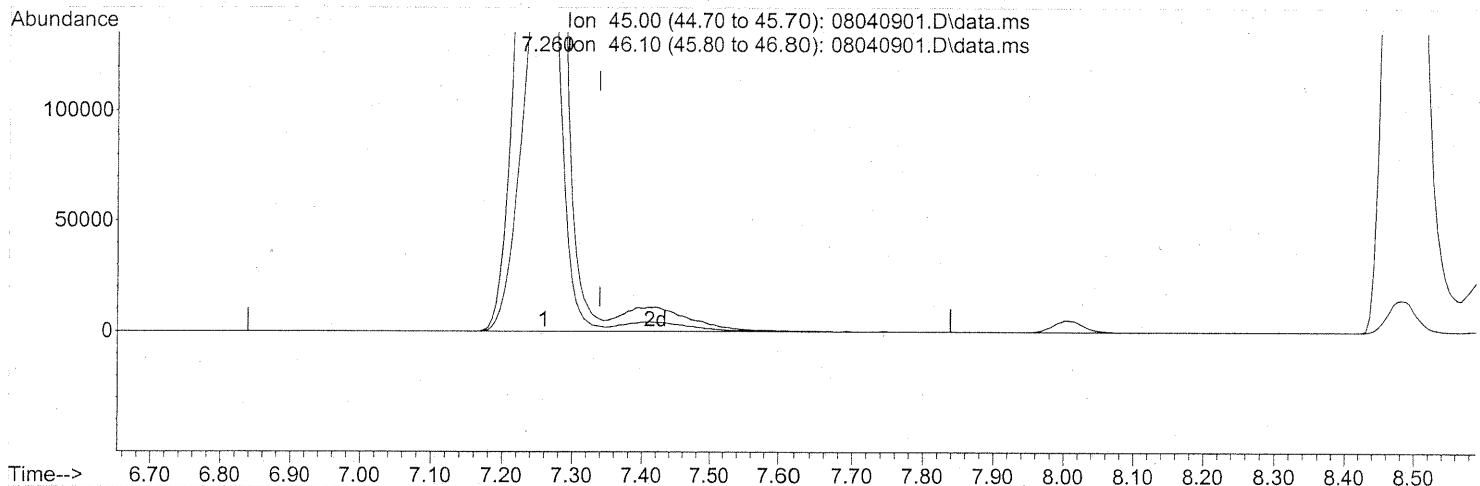
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.78
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:14:23 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.260min (-0.080) 127.85ng m

response 1906673

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.20
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
Em 8/4/09

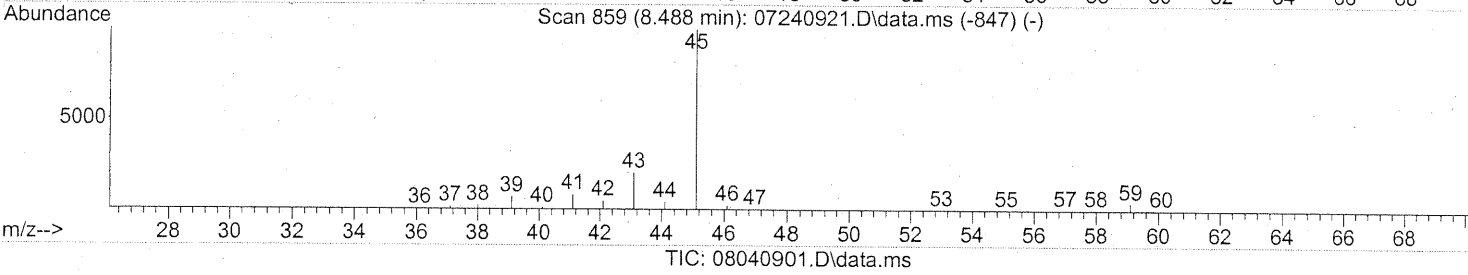
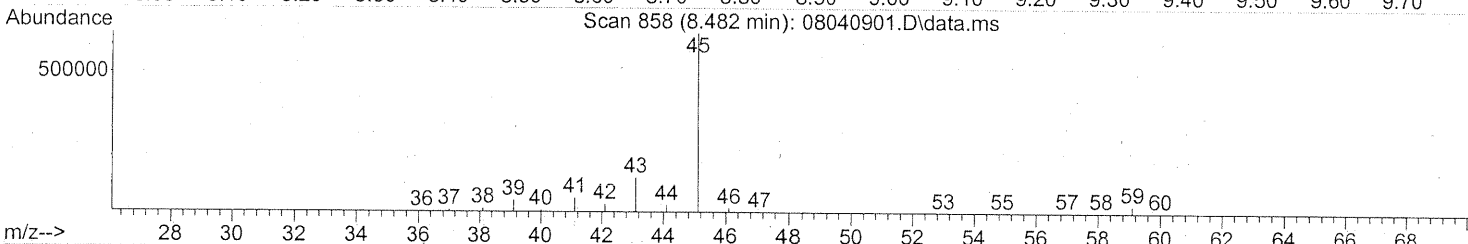
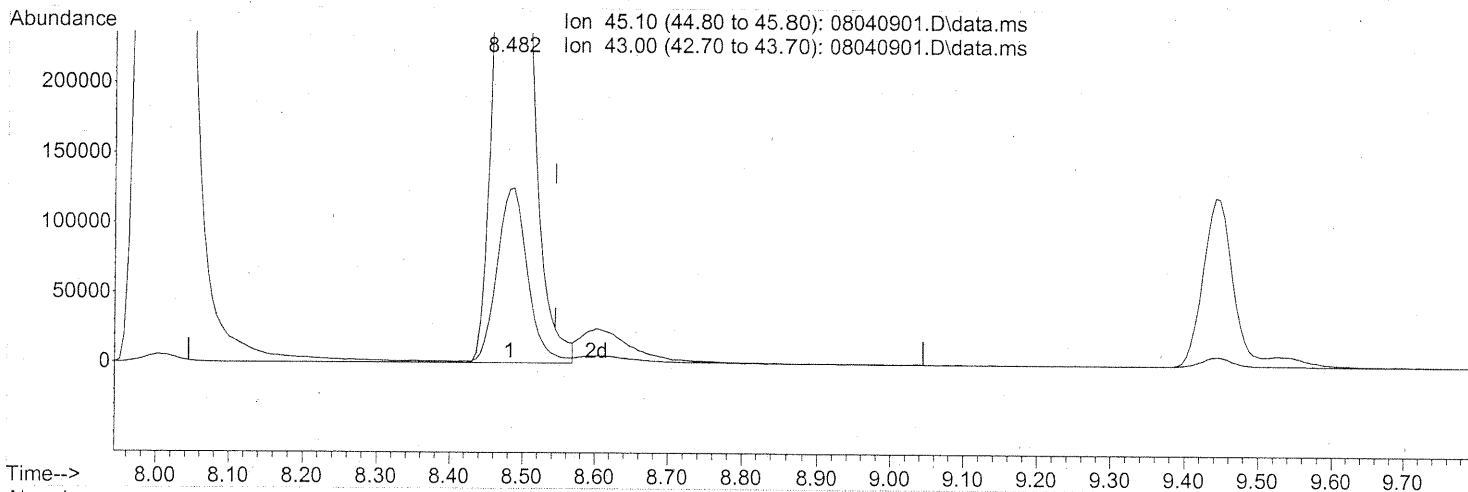
E. 8/4/09

461

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:14:23 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.482min (-0.063) 41.00ng

response 1829799

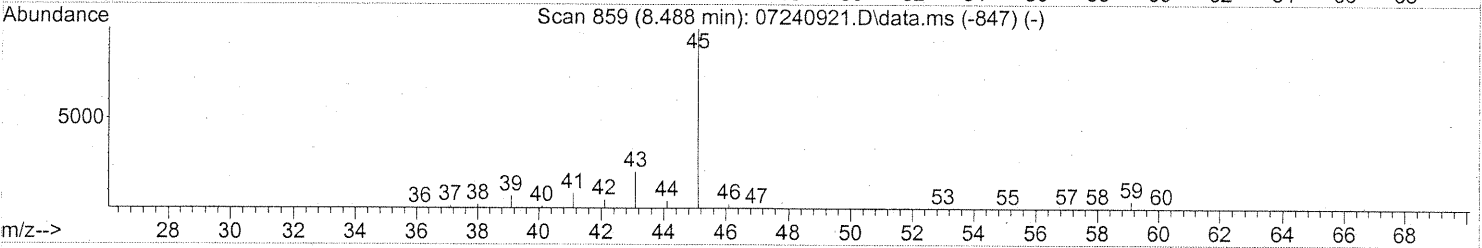
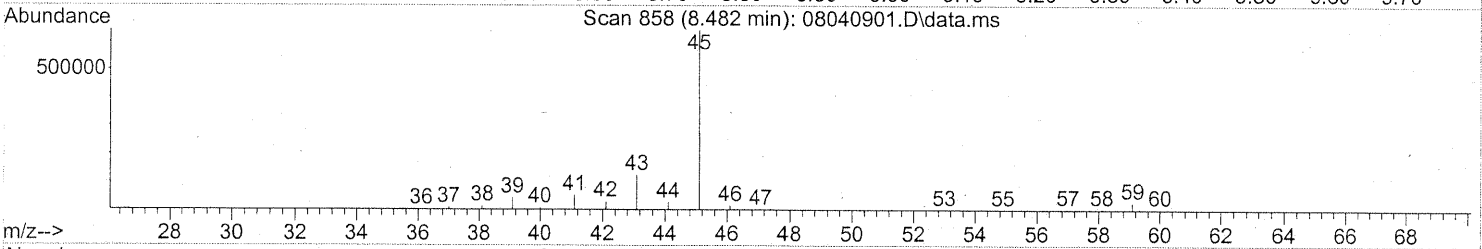
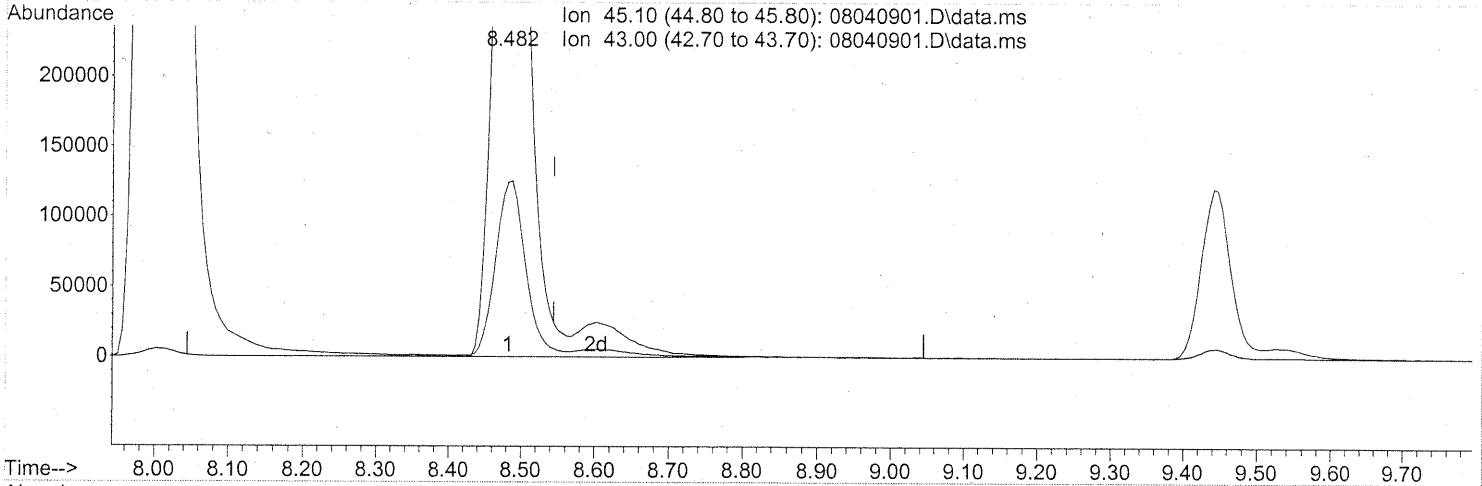
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.55
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 08:14:23 2009
 Quant Method : J:\MS09\Methods\R9072409.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



TIC: 08040901.D\data.ms

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

8.482min (-0.063) 43.81ng m

response 1955473

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	18.29
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

Em 8/4/09

8/4/09

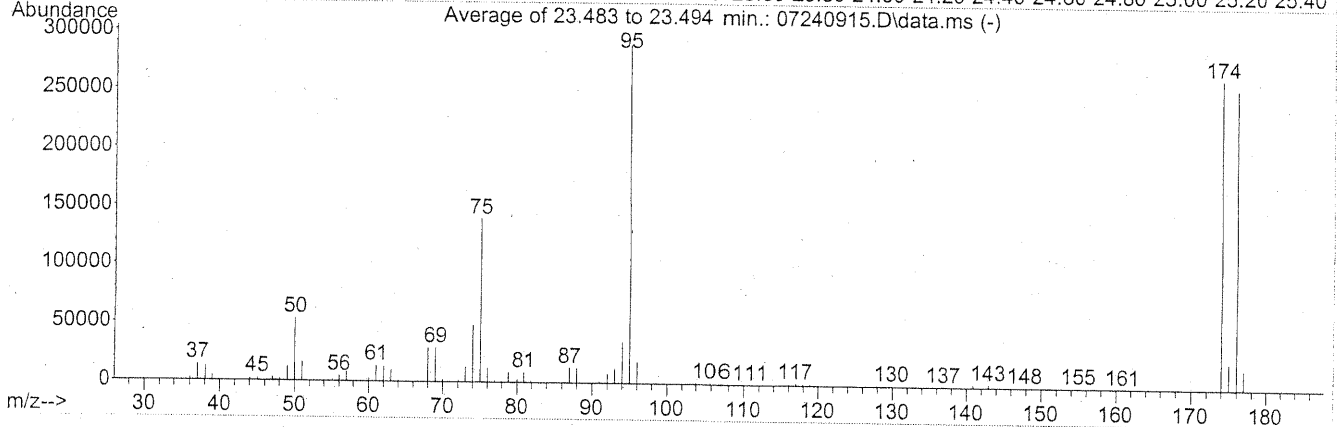
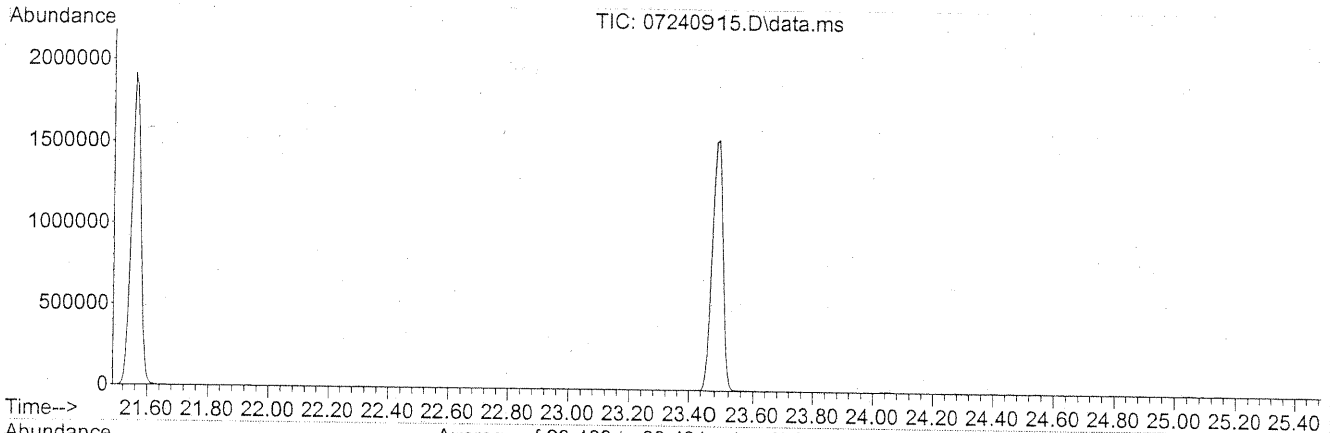
463

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS09\Data\2009_07\24\
 Data File : 07240915.D
 Acq On : 24 Jul 2009 20:05
 Operator : EM
 Sample : TO-15 BFB Standard (200ml)
 Misc : S20-07200901
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9072409.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Jul 27 08:47:52 2009



AutoFind: Scans 3484, 3485, 3486; Background Corrected with Scan 3474

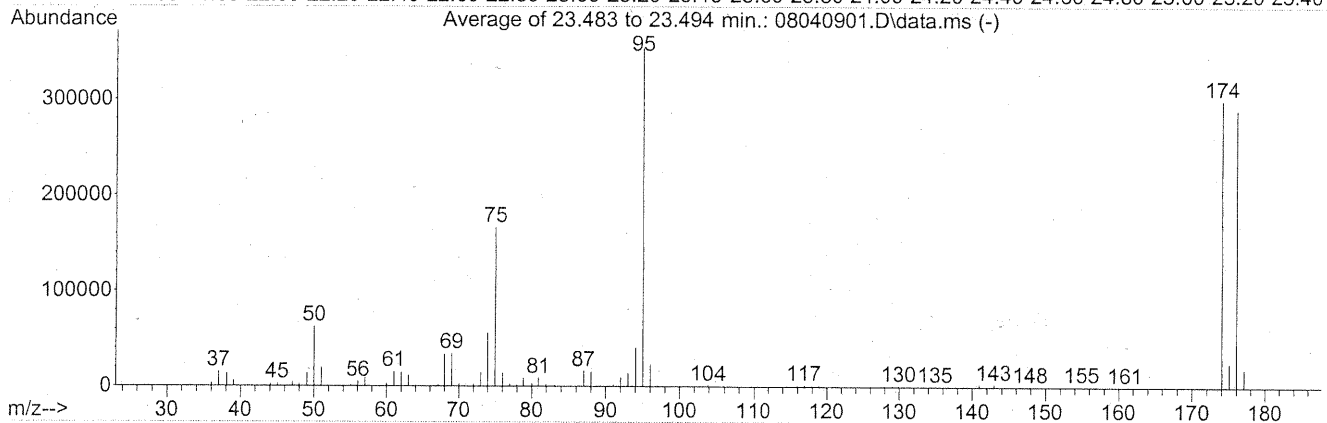
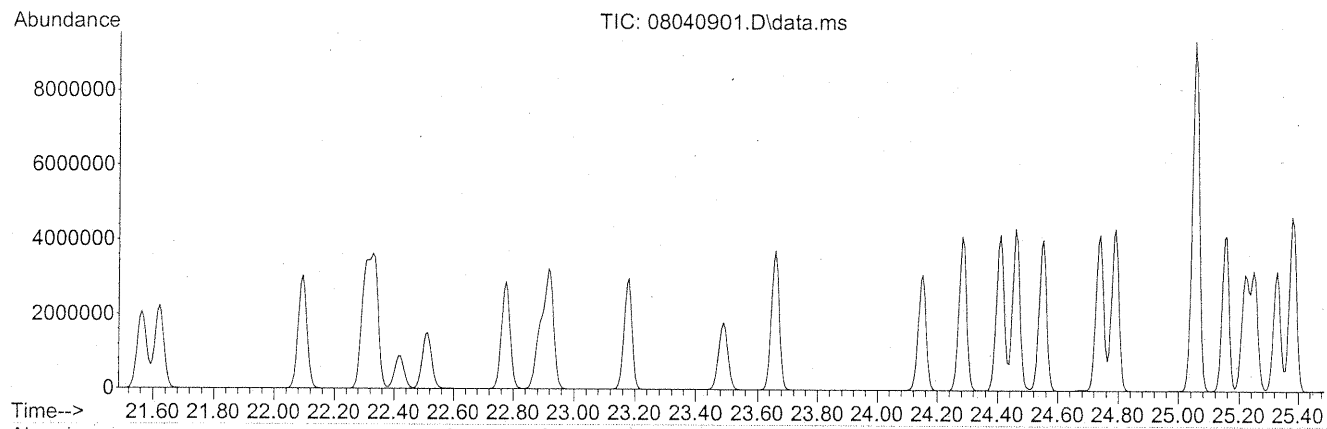
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.5	53541	PASS
75	95	30	66	48.3	139757	PASS
95	95	100	100	100.0	289173	PASS
96	95	5	9	6.2	18017	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.4	264213	PASS
175	174	4	9	8.2	21669	PASS
176	174	93	101	96.8	255723	PASS
177	176	5	9	6.4	16452	PASS

em 7/27/09

Data Path : J:\MS09\Data\2009_08\04\
 Data File : 08040901.D
 Acq On : 4 Aug 2009 3:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200901/S20-07240905
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9072409.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Jul 27 09:38:25 2009



AutoFind: Scans 3484, 3485, 3486; Background Corrected with Scan 3474

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.7	62619	PASS
75	95	30	66	47.0	166293	PASS
95	95	100	100	100.0	353515	PASS
96	95	5	9	6.4	22760	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.7	299307	PASS
175	174	4	9	8.2	24616	PASS
176	174	93	101	96.5	288939	PASS
177	176	5	9	6.4	18491	PASS

Em 8/4/09

RUN LOGS

EM
7/27/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	07/24/09 3:44	07240901.D	5ng TO-15 CCV STD	S20-07200901/S20-06290902	EM	1	Pass
2	07/24/09 4:26	07240902.D	TO-15 Method Blank (1000ml)	S20-07200901	EM	16	Pass as MB
3	07/24/09 8:06	07240903.D	P0902494-003 (0.6ml)	[REDACTED]	EM	1	
4	07/24/09 8:47	07240904.D	P0902494-009 (0.030ml)	[REDACTED]	EM	1	
5	07/24/09 9:32	07240905.D	Blank (200ml)	S20-07200901	EM	1	
6	07/24/09 10:14	07240906.D	P0902494-007 (0.0125ml)	[REDACTED]	EM	1	
7	07/24/09 10:56	07240907.D	P0902494-007 dup (0.0125ml)	[REDACTED]	EM	1	Pass as Lab Dup.
8	07/24/09 11:37	07240908.D	25ng TO-15 LCS STD	S20-07200901/S20-06260906	EM	2	Pass
9	07/24/09 12:18	07240909.D	25ng TO-15 LCSD STD	S20-07200901/S20-06260906	EM	2	Case File Extra
10	07/24/09 16:37	07240910.D	25ng std check	S20-07200901/S20-07240905	EM	1	
11	07/24/09 17:19	07240911.D	8ng std check	S20-07200901/S20-07240914	EM	5	
12	07/24/09 18:00	07240912.D	2.5ng std check	S20-07200901/S20-07240909	EM	1	
13	07/24/09 18:42	07240913.D	25ng std check	S20-07200901/S20-07240915	EM	2	
14	07/24/09 19:24	07240914.D	System Check		EM	4	
15	07/24/09 20:05	07240915.D	TO-15 BFB Standard (200ml)	S20-07200901	EM	1	Pass
16	07/24/09 20:46	07240916.D	0.1ng TO-15 ICAL STD	S20-07200901/S20-07240914	EM	5	ICAL R9072409.M
17	07/24/09 21:28	07240917.D	0.2ng TO-15 ICAL STD	S20-07200901/S20-07240914	EM	5	
18	07/24/09 22:10	07240918.D	0.5ng TO-15 ICAL STD	S20-07200901/S20-07240909	EM	1	
19	07/24/09 22:51	07240919.D	1.0ng TO-15 ICAL STD	S20-07200901/S20-07240909	EM	1	
20	07/24/09 23:33	07240920.D	5ng TO-15 ICAL STD	S20-07200901/S20-07240909	EM	1	
21	07/25/09 0:14	07240921.D	25ng TO-15 ICAL STD	S20-07200901/S20-07240905	EM	1	
22	07/25/09 0:56	07240922.D	50ng TO-15 ICAL STD	S20-07200901/S20-07240905	EM	1	
23	07/25/09 1:38	07240923.D	100ng TO-15 ICAL STD	S20-07200901/S20-07240905	EM	1	
24	07/25/09 2:19	07240924.D	25ng TO-15 ICV STD	S20-07200901/S20-07240915	EM	2	Pass
25	07/25/09 3:01	07240925.D	25ng TO-15 ICV STD	S20-07200901/S20-07240915	EM	2	Case File
26	07/25/09 3:43	07240926.D	System Check		EM	4	
27	07/25/09 4:25	07240927.D	Blank (200ml)	S20-06220903	EM	1	
28	07/25/09 9:03	07240928.D	Blank (200ml)	S20-06220903	EM	1	
29	07/25/09 9:41	07240929.D	System Check		EM	4	

ICAL R9072409.M : 02ng-100ng : Methyl Methacrylate, 4-methyl-2-pentanone, 2-Hexanone
d-Limonene

0.5ng-100ng : VA, 2-Butanone, EA, 1-Butanol

0.1ng-50ng : TBA

Rest 0.1-100ng.

EM 7/27/09

EM
8/4/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/03/09 6:23	08030901.D	25ng TO-15 CCV STD	S20-07200901/S20-07240905	EM	1	Pass
2	08/03/09 7:05	08030902.D	TO-15 Method Blank (1000ml)	S20-07200901	EM	1	Case File
3	08/03/09 8:19	08030903.D	25ng TO-15 AC&F STD	S20-07200901/S20-07220901	EM	7	Pass
4	08/03/09 9:00	08030904.D	CAS CAN QC C3S 3533	AC01262	EM	8	Pass as MB/750.ug/m ³
5	08/03/09 10:01	08030905.D	P0902574-001 dil (0.5ml)	[REDACTED]	EM	1	
6	08/03/09 10:42	08030906.D	25ng TO-15 LCS STD	S20-07200901/S20-07240915	EM	2	Pass
7	08/03/09 11:26	08030907.D	P0902594-002 dil (100ml)	[REDACTED]	EM	6	
8	08/03/09 12:08	08030908.D	P0902599-002 (1000ml)	[REDACTED]	EM	10	
9	08/03/09 12:50	08030909.D	P0902599-001 (1000ml)	[REDACTED]	EM	9	
10	08/03/09 13:31	08030910.D	P0902599-003 (1000ml)	[REDACTED]	EM	11	
11	08/03/09 14:13	08030911.D	P0902599-003 dup (1000ml)	[REDACTED]	EM	11	Case File
12	08/03/09 14:54	08030912.D	System Check		EM	4	
13	08/03/09 15:35	08030913.D	P0902632-001 (100ml)	[REDACTED]	EM	9	
14	08/03/09 16:46	08030914.D	P0902632-001 dil (25ml)	[REDACTED]	EM	9	
15	08/03/09 17:27	08030915.D	P0902632-002 (100ml)	[REDACTED]	EM	10	
16	08/03/09 18:09	08030916.D	P0902632-002 dup (100ml)	[REDACTED]	EM	10	Pass as Lab Dup.
17	08/03/09 18:50	08030917.D	P0902632-002 dil (25ml)	[REDACTED]	EM	10	Case File
18	08/03/09 19:32	08030918.D	25ng TO-15 LCSD STD	S20-07200901/S20-07240915	EM	2	Pass
19	08/03/09 20:14	08030919.D	P0902589-001 (1000ml)	[REDACTED]	EM	5	
20	08/03/09 20:56	08030920.D	P0902589-001 dil (100ml)	[REDACTED]	EM	5	
21	08/03/09 21:37	08030921.D	P0902599-004 (1000ml)	[REDACTED]	EM	12	
22	08/03/09 22:19	08030922.D	P0902599-005 (1000ml)	[REDACTED]	EM	14	
23	08/03/09 23:01	08030923.D	P0902599-006 (1000ml)	[REDACTED]	EM	15	
24	08/03/09 23:43	08030924.D	System Check		EM	4	
25	08/04/09 0:24	08030925.D	P0902599-007 (1000ml)	[REDACTED]	EM	16	
26	08/04/09 1:06	08030926.D	P0902599-008 (1000ml)	[REDACTED]	EM	6	
27	08/04/09 1:48	08030927.D	P0902599-009 (1000ml)	[REDACTED]	EM	7	
28	08/04/09 2:29	08030928.D	P0902599-010 (1000ml)	[REDACTED]	EM	8	
29	08/04/09 3:11	08030929.D	System Check		EM	4	

EM
8/5/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/04/09 3:53	08040901.D	25ng TO-15 CCV STD	S20-07200901/S20-07240905	EM	1	Pass
2	08/04/09 4:35	08040902.D	25ng TO-15 AC&F STD	S20-07200901/S20-07220901	EM	3	
3	08/04/09 5:17	08040903.D	TO-15 Method Blank (1000ml)	S20-07200901	EM	1	Pass as MB
4	08/04/09 8:38	08040904.D	P0902632-002 (1000ml)	[REDACTED]	EM	10	
5	08/04/09 9:38	08040905.D	P0902599-007 dil (100ml)	[REDACTED]	EM	16	
6	08/04/09 10:19	08040906.D	P0902624-001 (1000ml)	Environmental H & E 99441	EM	5	
7	08/04/09 11:01	08040907.D	P0902624-004 (1000ml)	Environmental H & E 99444	EM	6	
8	08/04/09 11:42	08040908.D	25ng TO-15 LCS STD	S20-07200901/S20-07240915	EM	2	Pass
9	08/04/09 12:29	08040909.D	P0902624-001 dil (100ml)	Environmental H & E 99441	EM	5	
10	08/04/09 13:10	08040910.D	P0902624-002 (1000ml)	Environmental H & E 99442	EM	7	
11	08/04/09 13:52	08040911.D	P0902624-002 dup (1000ml)	Environmental H & E 99442	EM	7	Pass as Lab Dup.

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
12	08/04/09 15:32	08040912.D	P0902624-004 dil (100ml)	Environmental H & E 99444	EM	6	
13	08/04/09 16:13	08040913.D	P0902624-002 dil (100ml)	Environmental H & E 99442	EM	7	
14	08/04/09 16:55	08040914.D	P0902624-002 dup dil (100ml)	Environmental H & E 99442	EM	7	
15	08/04/09 17:36	08040915.D	P0902624-003 (1000ml)	Environmental H & E 99443	EM	8	
16	08/04/09 18:18	08040916.D	P0902624-003 dil (100ml)	Environmental H & E 99443	EM	8	Case File
17	08/04/09 19:00	08040917.D	P0902624-005 (1000ml)	Environmental H & E 99445	EM	9	
18	08/04/09 19:42	08040918.D	P0902624-005 dil (100ml)	Environmental H & E 99445	EM	9	
19	08/04/09 20:24	08040919.D	P0902624-006 (1000ml)	Environmental H & E 99448	EM	10	
20	08/04/09 21:06	08040920.D	P0902624-006 dil (100ml)	Environmental H & E 99448	EM	10	Case File
21	08/04/09 21:48	08040921.D	System Check		EM	4	
22	08/04/09 22:30	08040922.D	CAS CAN QC C2S 3551E	1SC00270 (400ml)	EM	3	
23	08/04/09 23:12	08040923.D	CAS CAN QC C2S 3551A	1SC00488 (400ml)	EM	5	
24	08/04/09 23:54	08040924.D	CAS CAN QC C2S 3551G	1SC00073 (400ml)	EM	11	
25	08/05/09 0:35	08040925.D	CAS CAN QC C2S 3551H	1SC00357 (400ml)	EM	12	
26	08/05/09 1:17	08040926.D	System Check		EM	4	
27	08/05/09 1:59	08040927.D	CAS CAN QC C1S 3550C	1SC00613 (400ml)	EM	13	
28	08/05/09 2:41	08040928.D	CAS CAN QC C2S 3551C	1SC00723 (400ml)	EM	14	
29	08/05/09 3:22	08040929.D	CAS CAN QC C1S 3550D	1SC00156 (400ml)	EM	15	
30	08/05/09 4:04	08040930.D	CAS CAN QC C1S 3550A	1SC00312 (400ml)	EM	16	
31	08/05/09 4:46	08040931.D	System Check		EM	4	