LABORATORY REPORT

May 26, 2010

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

RE: 17131

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on May 7, 2010. For your reference, these analyses have been assigned our service request number P1001603.

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 647 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; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L10-3; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-09-TX; Minnesota Department of Health, Certificate No. 11495AA. 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

Kate Aguilera
Project Manager

Client: Environmental Health & Engineering, Inc. CAS Project No: P1001603
Project: 17131

CASE NARRATIVE

The samples were received intact under chain of custody on May 7, 2010 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 **Folder:** P1001603

Project: 17131

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1	Pi2 (Hg)	Pi2 (psig)	Pf2	Cont ID	Order #	FC ID
P1001603-001.01	110256	6.0 L-Summa Canister Ambient	-8.0	-3.9	3.5				AC01617	**17433**	
P1001603-002.01	110257	6.0 L-Summa Canister Ambient	-5.0	-2.5	3.5				AC01315	**17433**	
P1001603-003.01	110258	6.0 L-Summa Canister Ambient	-5.2	-2.6	3.5				AC00524	**17433**	
P1001603-004.01	110259	6.0 L-Summa Canister Ambient	-9.3	-4.6	3.5				AC00624	**17433**	
P1001603-005.01	110288	6.0 L-Summa Canister Ambient	-28.3	-13.9	3.5				AC01452	**17433**	
P1001603-006.01	110305	6.0 L-Summa Canister Ambient	-6.6	-3.2	3.5				AC00076	**17433**	
P1001603-007.01	110306	6.0 L-Summa Canister Ambient	-5.2	-2.6	3.5				AC01032	**17433**	
P1001603-008.01	110307	6.0 L-Summa Canister Ambient	-7.7	-3.8	3.5				AC01019	**17433**	
P1001603-009.01	110309	6.0 L-Summa Canister Ambient	-5.4	-2.7	3.5				AC00915	**17433**	
P1001603-010.01	110353	6.0 L-Summa Canister Ambient	-29.5	-14.5	3.5				AC00898	**17433**	

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 5/6/10

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

P1001603

TO: Columbia Analytical

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17131

The cost of this analysis will be covered by EH&E Purchase Order # 17131

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
1-8.0 110256	Summa	TO-15 Low level	2 Hour Flow Controller
2-5.1 110257			
3-5.3 110258			
4-9.2 110259			
5-28.5 110268			Ø
6-6.1 110305			2 Hour Flow Controller
7-5.4 110306			
8-7.7 110307			
9-5.6 110309			
10-28.8 110353			Ø

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient bbaker@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 5/6/10

Received by: _____ of (company name) CAS Date: 5/7/10 0940

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Page 1 of 1

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Inc. Work order: P1001603

Project: 17131 / 17131

Sample(s) received on: 5/7/10 Date opened: 5/7/10 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?	☒	☐	☐
2	Container(s) **supplied by CAS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Was a **chain-of-custody** provided?	☒	☐	☐
5	Was the **chain-of-custody** properly completed?	☐	☒	☐
6	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
7	Was **sample volume** received adequate for analysis?	☒	☐	☐
8	Are samples within specified holding times?	☒	☐	☐
9	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature _____ °C Blank Temperature _____ °C			
10	Was a **trip blank** received?	☐	☒	☐
	Trip blank supplied by CAS: _____			
11	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
12	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
13	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
14	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1001603-001.01	6.0 L Ambient Can					
P1001603-002.01	6.0 L Ambient Can					
P1001603-003.01	6.0 L Ambient Can					
P1001603-004.01	6.0 L Ambient Can					
P1001603-005.01	6.0 L Ambient Can					

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

Chain of Custody is missing date/time collected

*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)

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Inc. Work order: P1001603

Project: 17131 / 17131

Sample(s) received on: 5/7/10 Date opened: 5/7/10 by: ADAVID

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1001603-006.01	6.0 L Ambient Can					
P1001603-007.01	6.0 L Ambient Can					
P1001603-008.01	6.0 L Ambient Can					
P1001603-009.01	6.0 L Ambient Can					
P1001603-010.01	6.0 L Ambient Can					

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

*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

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110256**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01617

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**15**	0.85	**8.7**	0.49	
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.85	**0.40**	0.17	
74-87-3	**Chloromethane**	**0.54**	0.34	**0.26**	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.85	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.066	
106-99-0	1,3-Butadiene	ND	0.34	ND	0.15	
74-83-9	Bromomethane	ND	0.17	ND	0.044	
75-00-3	Chloroethane	ND	0.17	ND	0.064	
64-17-5	**Ethanol**	**2,100**	85	**1,100**	45	**D**
75-05-8	**Acetonitrile**	**0.89**	0.85	**0.53**	0.50	
107-02-8	**Acrolein**	**5.5**	3.4	**2.4**	1.5	
67-64-1	**Acetone**	**160**	8.5	**69**	3.6	
75-69-4	**Trichlorofluoromethane**	**1.1**	0.17	**0.19**	0.030	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**63**	1.7	**25**	0.69	
107-13-1	Acrylonitrile	ND	0.85	ND	0.39	
75-35-4	1,1-Dichloroethene	ND	0.17	ND	0.043	
75-09-2	Methylene Chloride	ND	0.85	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	ND	0.054	
76-13-1	**Trichlorotrifluoroethane**	**0.47**	0.17	**0.062**	0.022	
75-15-0	Carbon Disulfide	ND	8.5	ND	2.7	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	ND	0.043	
75-34-3	1,1-Dichloroethane	ND	0.17	ND	0.042	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	ND	0.047	
108-05-4	**Vinyl Acetate**	**12**	8.5	**3.5**	2.4	
78-93-3	2-Butanone (MEK)	ND	8.5	ND	2.9	

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: Re Date: 5/20/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110256**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01617

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	ND	0.043	
141-78-6	**Ethyl Acetate**	**9.7**	0.85	**2.7**	0.23	
110-54-3	**n-Hexane**	**1.6**	0.85	**0.45**	0.24	
67-66-3	**Chloroform**	**9.2**	0.17	**1.9**	0.035	
109-99-9	**Tetrahydrofuran (THF)**	**0.93**	0.85	**0.31**	0.29	
107-06-2	**1,2-Dichloroethane**	**1.9**	0.17	**0.46**	0.042	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.031	
71-43-2	**Benzene**	**0.85**	0.17	**0.27**	0.053	
56-23-5	**Carbon Tetrachloride**	**0.61**	0.17	**0.097**	0.027	
110-82-7	**Cyclohexane**	**2.1**	0.85	**0.62**	0.25	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.037	
75-27-4	**Bromodichloromethane**	**4.6**	0.17	**0.69**	0.025	
79-01-6	Trichloroethene	ND	0.17	ND	0.031	
123-91-1	1,4-Dioxane	ND	0.85	ND	0.23	
80-62-6	Methyl Methacrylate	ND	0.85	ND	0.21	
142-82-5	**n-Heptane**	**1.3**	0.85	**0.33**	0.21	
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	ND	0.19	
108-10-1	**4-Methyl-2-pentanone**	**1.3**	0.85	**0.31**	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	ND	0.19	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.031	
108-88-3	**Toluene**	**7.3**	0.85	**1.9**	0.22	
591-78-6	**2-Hexanone**	**2.3**	0.85	**0.57**	0.21	
124-48-1	**Dibromochloromethane**	**2.4**	0.17	**0.28**	0.020	
106-93-4	1,2-Dibromoethane	ND	0.17	ND	0.022	
123-86-4	**n-Butyl Acetate**	**4.8**	0.85	**1.0**	0.18	

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: Rev Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.** CAS Project ID: P1001603
Client Sample ID: **110256** CAS Sample ID: P1001603-001
Client Project ID: **17131**

Test Code: EPA TO-15 Date Collected: 5/6/10
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/7/10
Analyst: Wida Ang Date Analyzed: 5/10 - 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.10 Liter(s)
Container ID: AC01617

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	**n-Octane**	**0.96**	0.85	**0.21**	0.18	
127-18-4	**Tetrachloroethene**	**0.44**	0.17	**0.065**	0.025	
108-90-7	Chlorobenzene	ND	0.17	ND	0.037	
100-41-4	**Ethylbenzene**	**1.9**	0.85	**0.43**	0.19	
179601-23-1	**m,p-Xylenes**	**5.0**	0.85	**1.1**	0.19	
75-25-2	Bromoform	ND	0.85	ND	0.082	
100-42-5	**Styrene**	**2.5**	0.85	**0.59**	0.20	
95-47-6	**o-Xylene**	**1.9**	0.85	**0.45**	0.19	
111-84-2	**n-Nonane**	**2.7**	0.85	**0.52**	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	ND	0.025	
98-82-8	Cumene	ND	0.85	ND	0.17	
80-56-8	**alpha-Pinene**	**41**	0.85	**7.4**	0.15	
103-65-1	n-Propylbenzene	ND	0.85	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.85	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.85	ND	0.17	
95-63-6	**1,2,4-Trimethylbenzene**	**1.7**	0.85	**0.35**	0.17	
100-44-7	Benzyl Chloride	ND	0.85	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.17	ND	0.028	
106-46-7	**1,4-Dichlorobenzene**	**40**	0.17	**6.7**	0.028	
95-50-1	**1,2-Dichlorobenzene**	**0.19**	0.17	**0.031**	0.028	
5989-27-5	**d-Limonene**	**40**	0.85	**7.3**	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.85	ND	0.087	
120-82-1	1,2,4-Trichlorobenzene	ND	0.85	ND	0.11	
91-20-3	**Naphthalene**	**1.1**	0.85	**0.21**	0.16	
87-68-3	Hexachlorobutadiene	ND	0.85	ND	0.079	

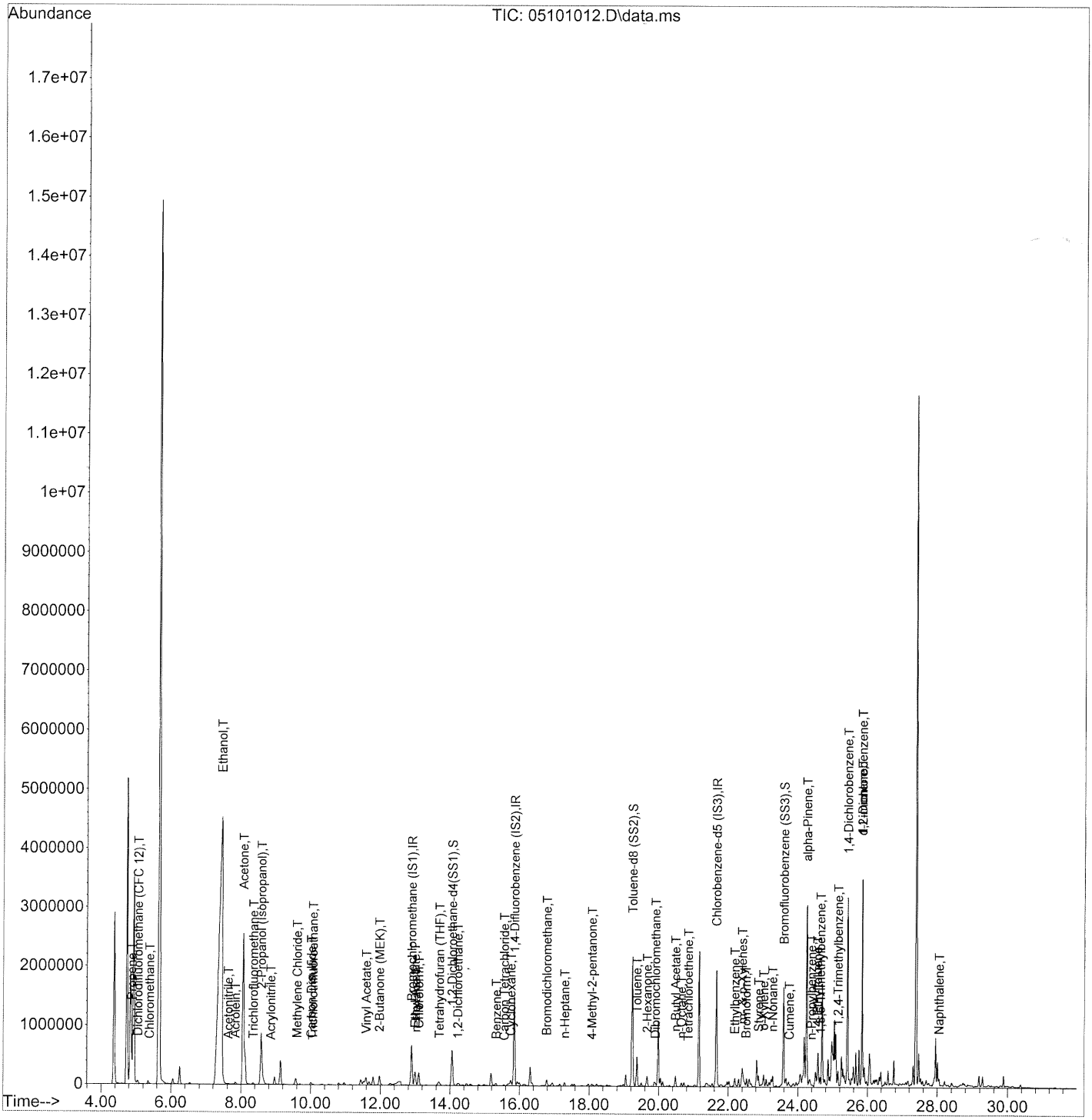
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 07:09:37 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 07:09:37 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	389397	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.85	114	1839453	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	778631	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	580168	24.686	ng		0.00
Spiked Amount 25.000			Recovery =	98.76%			✓
57) Toluene-d8 (SS2)	19.24	98	1931653	24.597	ng		0.00
Spiked Amount 25.000			Recovery =	98.40%			✓
73) Bromofluorobenzene (SS3)	23.59	174	670519	24.375	ng		0.00
Spiked Amount 25.000			Recovery =	97.52%			✓
Target Compounds							Qvalue
2) Propene	4.87	42	195937m	8.882	ng		
3) Dichlorodifluoromethan...	5.05	85	60702	1.170	ng		99
4) Chloromethane	5.38	50	10038	0.319	ng		99
10) Ethanol	7.44	45	17686433m	1316.251	ng		see dil
11) Acetonitrile	7.63	41	17224	0.529	ng		97
12) Acrolein	7.84	56	43171	3.258	ng		98
13) Acetone	8.06	58	1675046	97.554	ng	#	83
14) Trichlorofluoromethane	8.35	101	29985	0.635	ng		100
15) 2-Propanol (Isopropanol)	8.58	45	1851288	37.006	ng		99
16) Acrylonitrile	8.85	53	2427	0.093	ng		94
19) Methylene Chloride	9.60	84	4887	0.189	ng	#	76
21) Trichlorotrifluoroethane	10.06	151	6655	0.281	ng	#	77
22) Carbon Disulfide	10.01	76	78837	0.945	ng		99
26) Vinyl Acetate	11.59	86	43247m	7.238	ng		
27) 2-Butanone (MEK)	11.97	72	75551	4.791	ng	#	70
30) Ethyl Acetate	12.99	61	48229	5.758	ng		93
31) n-Hexane	13.01	57	37194	0.932	ng	#	97
32) Chloroform	13.10	83	230141	5.424	ng		98
34) Tetrahydrofuran (THF)	13.69	72	8406	0.549	ng	#	13
36) 1,2-Dichloroethane	14.22	62	35394	1.112	ng		100
41) Benzene	15.33	78	52891	0.505	ng		98
42) Carbon Tetrachloride	15.55	117	11643	0.362	ng		97
43) Cyclohexane	15.75	84	49605	1.272	ng	#	81
46) Bromodichloromethane	16.78	83	85491	2.719	ng		100
51) n-Heptane	17.30	71	19672	0.790	ng		89
53) 4-Methyl-2-pentanone	18.08	58	14675	0.740	ng	#	73
58) Toluene	19.37	91	475771	4.296	ng		98
59) 2-Hexanone	19.67	43	64778	1.381	ng		87
60) Dibromochloromethane	19.91	129	37432	1.414	ng		98
62) n-Butyl Acetate	20.48	43	153162	2.862	ng		94

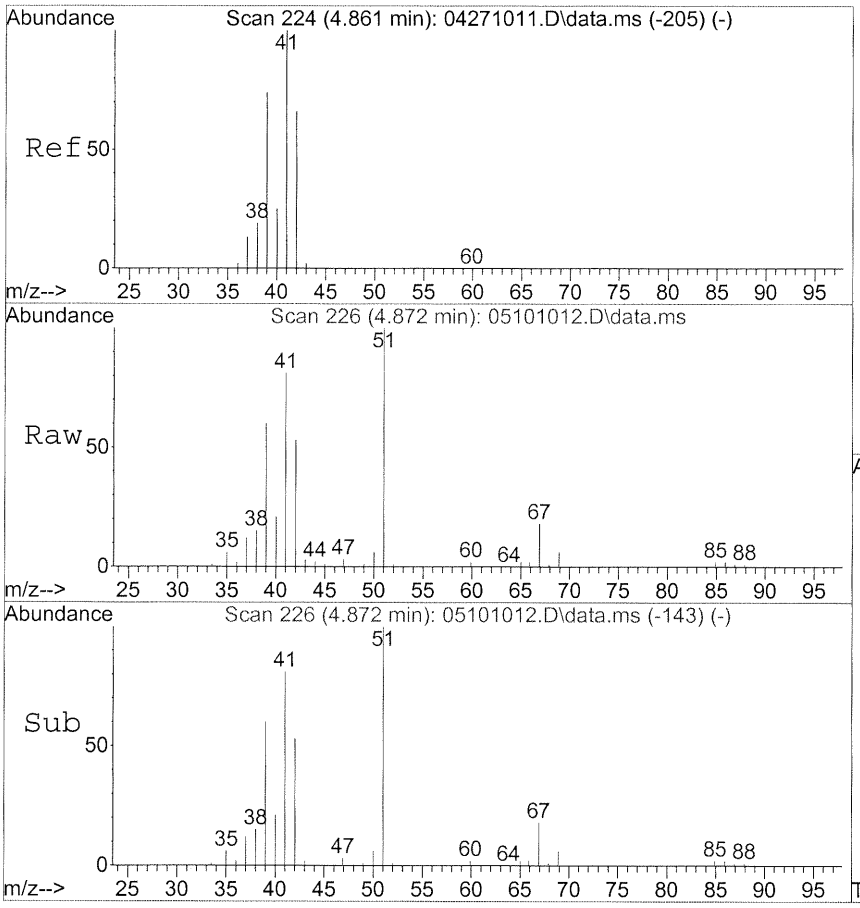
Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 07:09:37 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
63) n-Octane	20.65	57	11301	0.569	ng	#	85
64) Tetrachloroethene	20.85	166	9010	0.260	ng		99
66) Ethylbenzene	22.19	91	133199	1.097	ng		96
67) m- & p-Xylenes	22.40	91	282896	2.949	ng		93
68) Bromoform	22.51	173	5201	0.209	ng		93
69) Styrene	22.87	104	112615	1.492	ng		94
70) o-Xylene	23.01	91	112077	1.146	ng		93
71) n-Nonane	23.27	43	69054	1.619	ng		82
74) Cumene	23.75	105	12230	0.092	ng		97
75) alpha-Pinene	24.25	93	1504060	24.258	ng		93
76) n-Propylbenzene	24.38	91	28350	0.183	ng	#	89
78) 4-Ethyltoluene	24.56	105	48490	0.393	ng		91
79) 1,3,5-Trimethylbenzene	24.64	105	28534	0.284	ng		95
82) 1,2,4-Trimethylbenzene	25.15	105	105005	1.009	ng		96
86) 1,4-Dichlorobenzene	25.42	146	1566685	23.813	ng		100
90) 1,2-Dichlorobenzene	25.84	146	6673	0.110	ng		97
91) d-Limonene	25.84	68	865740	23.960	ng		80
95) Naphthalene	28.05	128	84906	0.643	ng		100

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

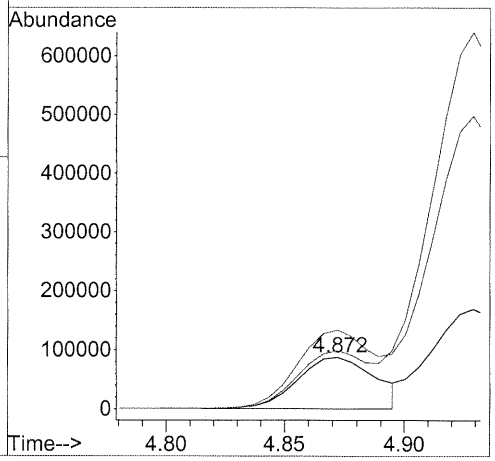
RH 5/16/10

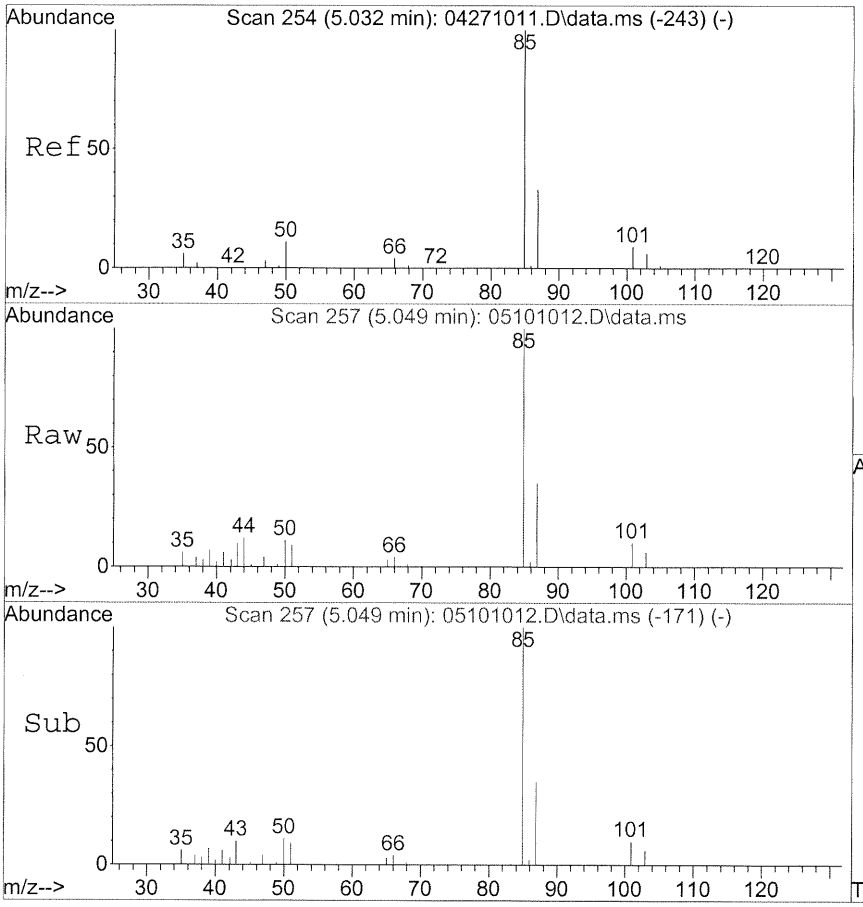


#2
Propene
Concen: 8.88 ng m
RT: 4.87 min Scan# 226
Delta R.T. -0.029 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 42 Resp: 195937

Ion	Ratio	Lower	Upper
42	100		
39	821.1	92.2	132.2#
41	643.0	133.9	173.9#

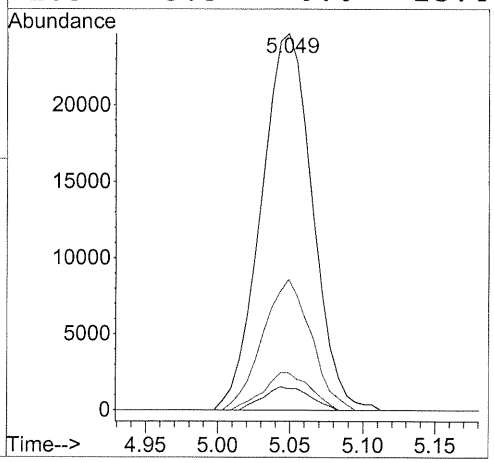


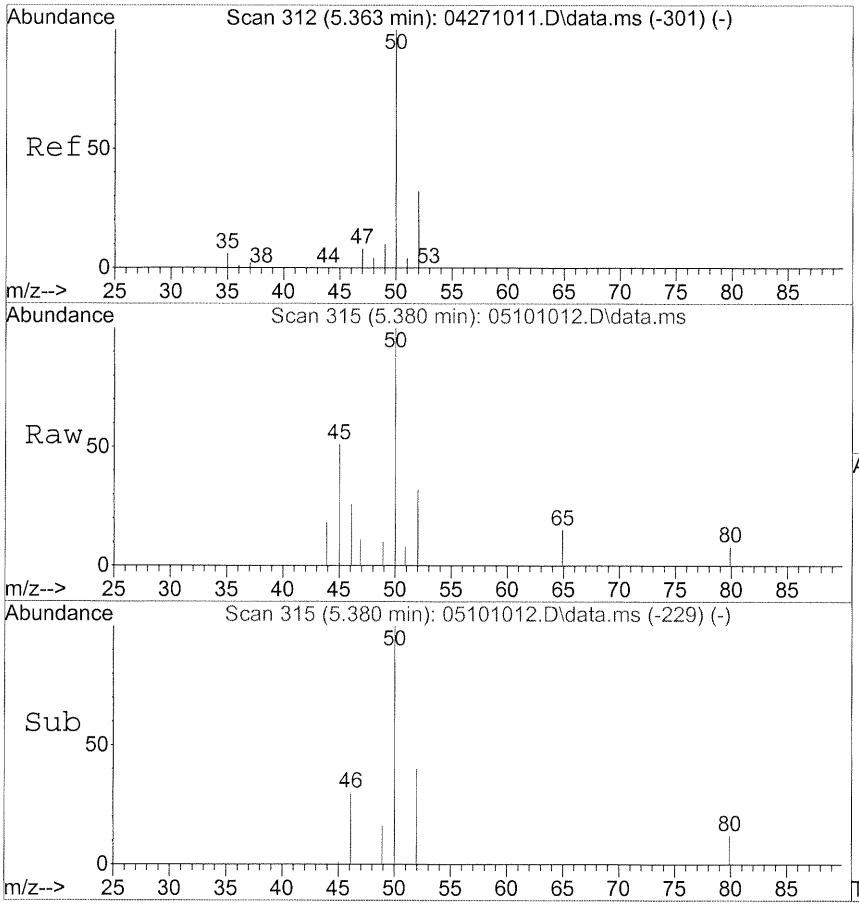


#3
Dichlorodifluoromethane (CFC
Concen: 1.17 ng
RT: 5.05 min Scan# 257
Delta R.T. -0.011 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 85 Resp: 60702

Ion	Ratio	Lower	Upper
85	100		
87	32.8	12.0	52.0
101	9.0	0.0	28.5
103	5.5	0.0	25.4

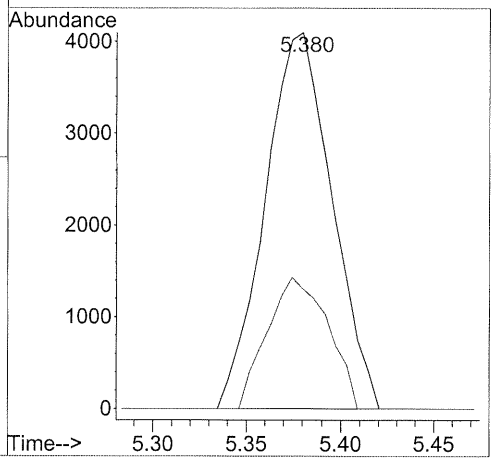


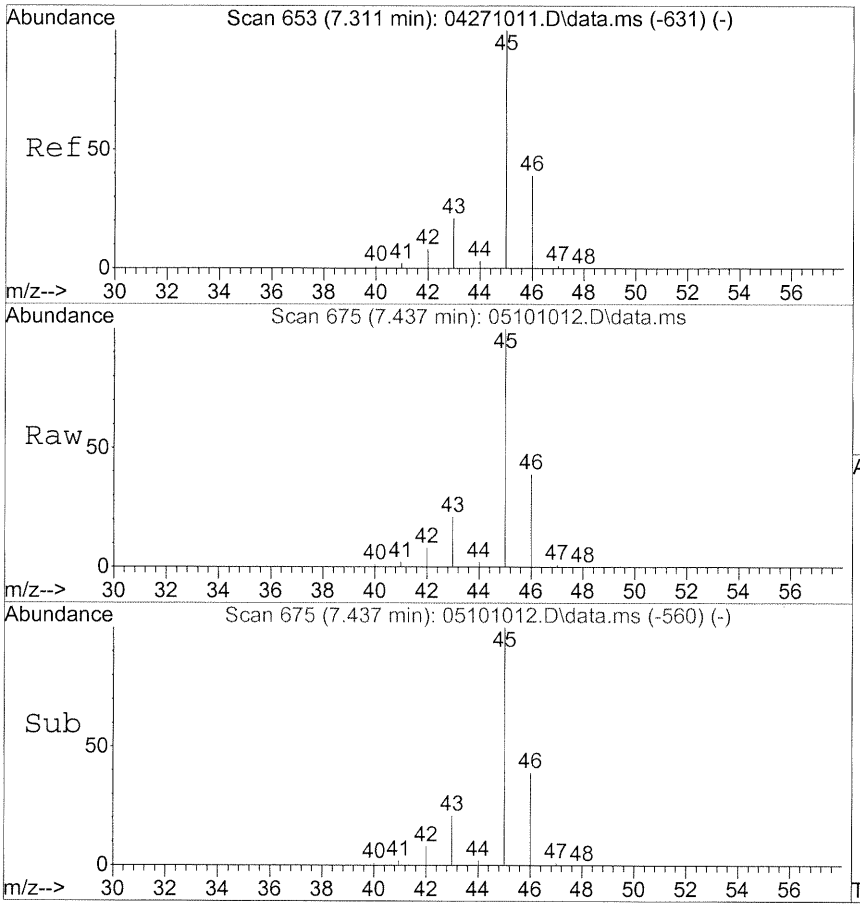


#4
Chloromethane
Concen: 0.32 ng
RT: 5.38 min Scan# 315
Delta R.T. -0.011 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 50 Resp: 10038

Ion	Ratio	Lower	Upper
50	100		
52	31.8	12.1	52.1

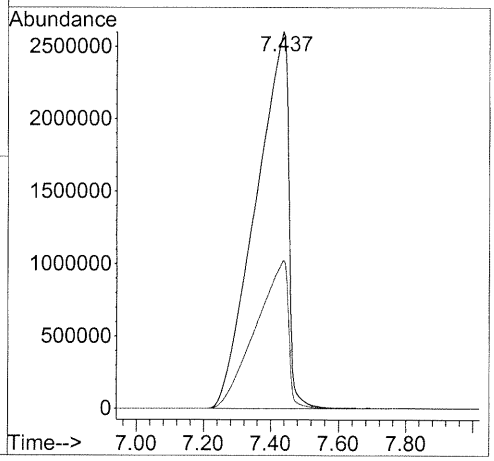


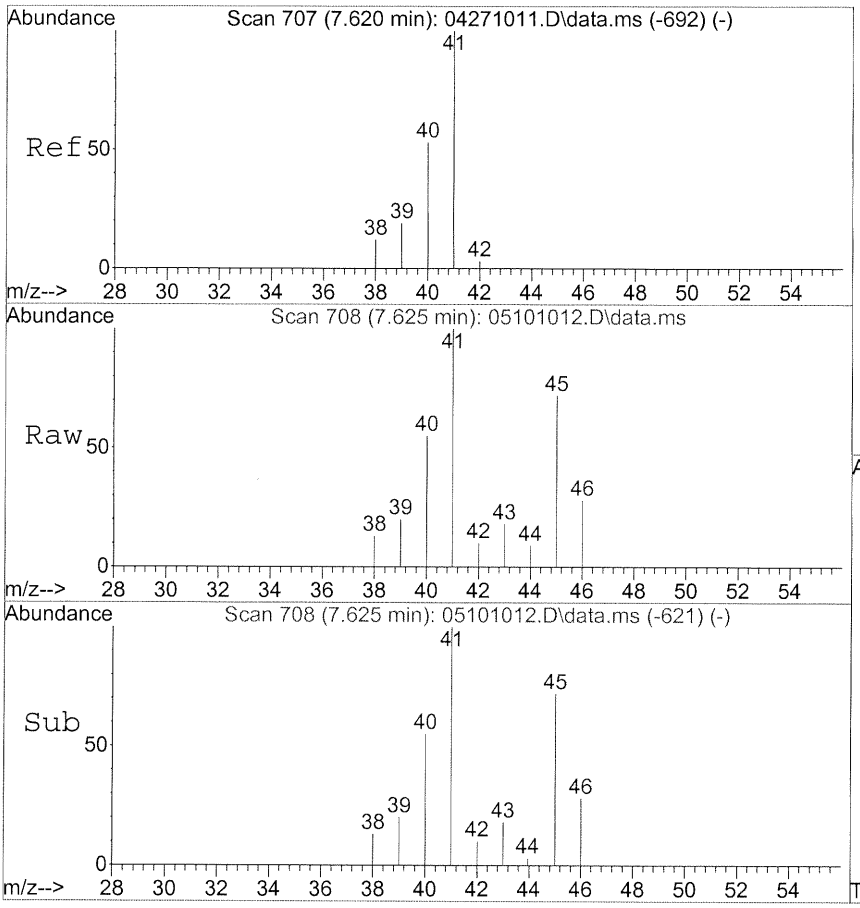


#10
Ethanol
Concen: 1316.25 ng m
RT: 7.44 min Scan# 675
Delta R.T. 0.154 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 45 Resp:17686433

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.4	58.4#

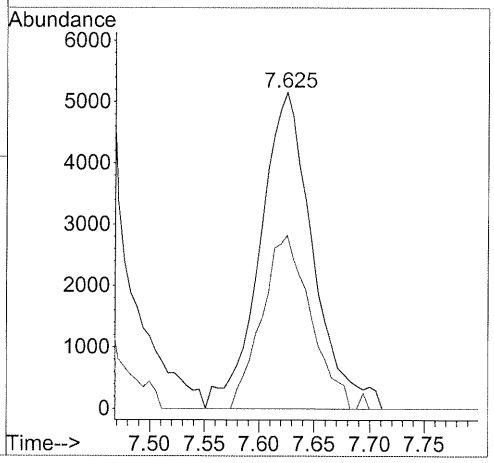


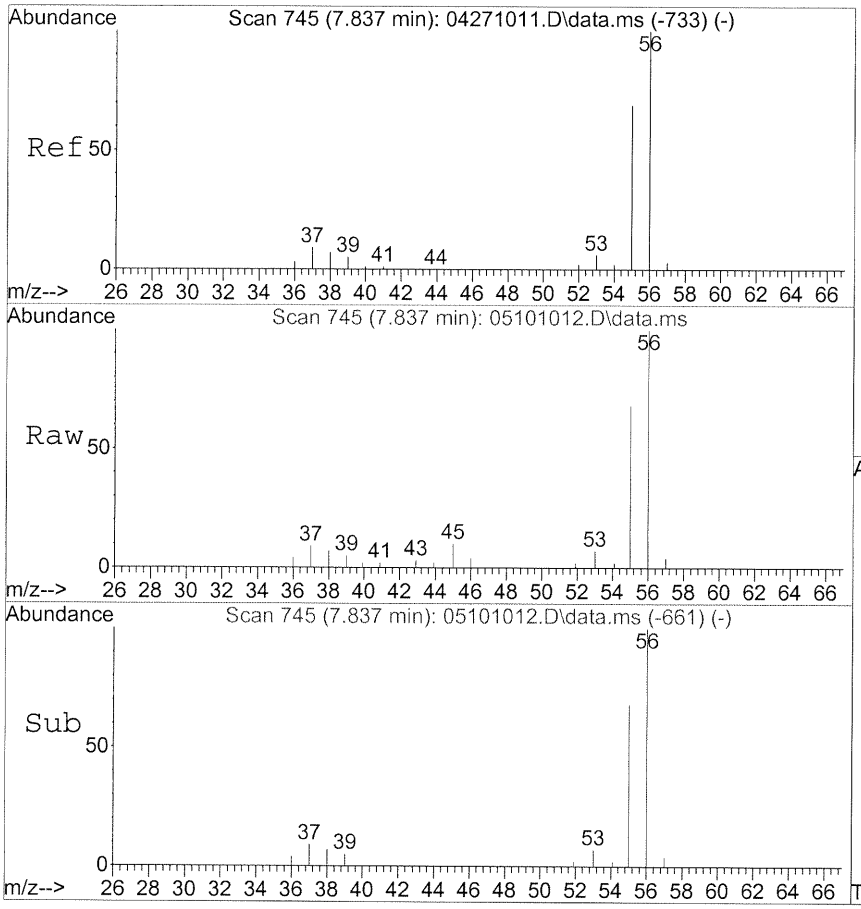


#11
Acetonitrile
Concen: 0.53 ng
RT: 7.63 min Scan# 708
Delta R.T. -0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 41 Resp: 17224

Ion	Ratio	Lower	Upper
41	100		
40	50.6	32.7	72.7

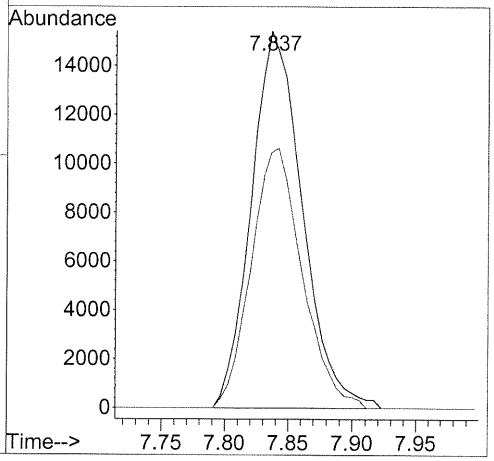


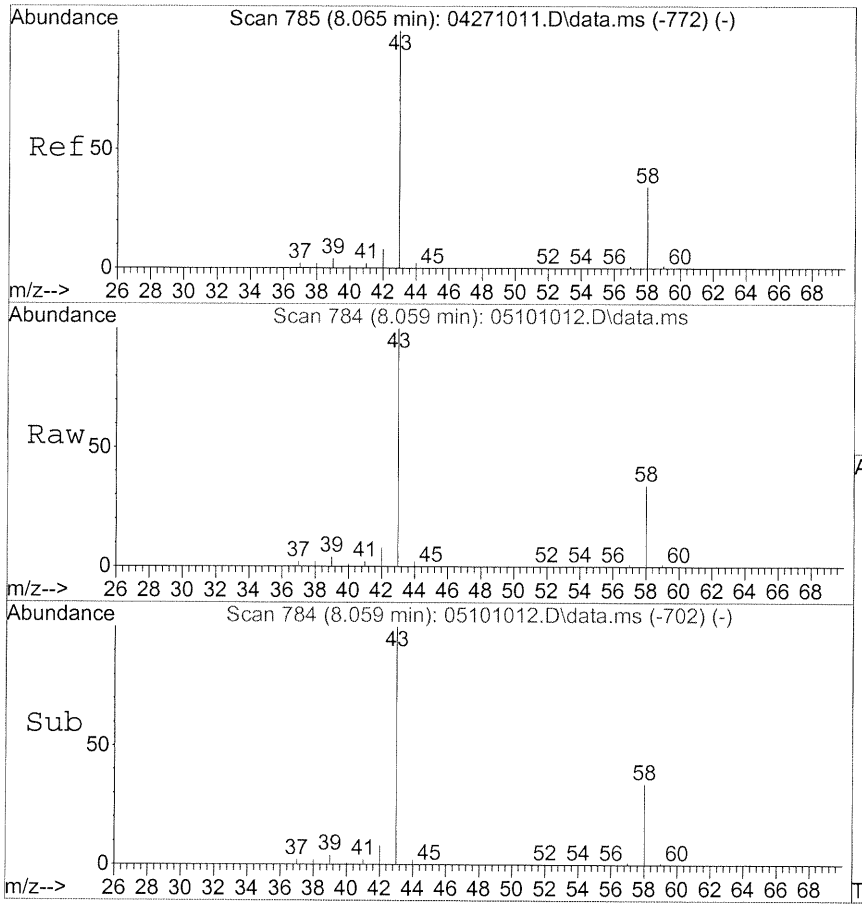


#12
Acrolein
Concen: 3.26 ng
RT: 7.84 min Scan# 745
Delta R.T. -0.022 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 56 Resp: 43171

Ion	Ratio	Lower	Upper
56	100		
55	68.9	50.5	90.5

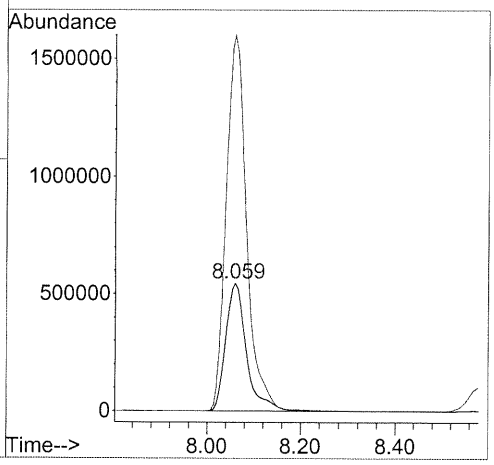


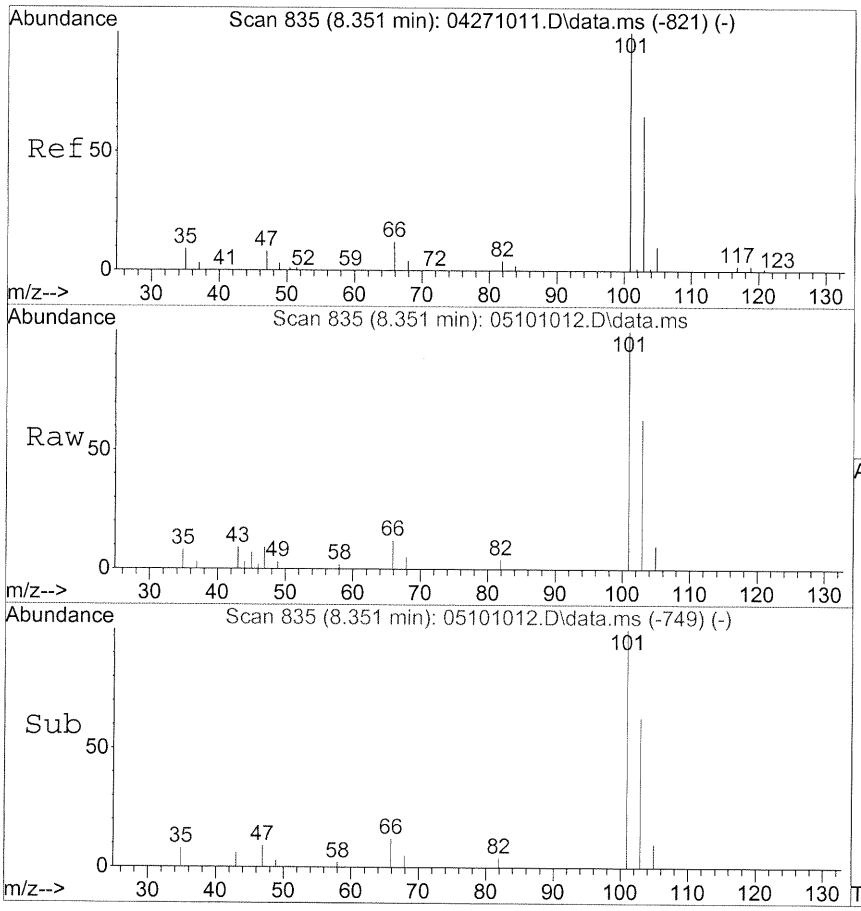


#13
Acetone
Concen: 97.55 ng
RT: 8.06 min Scan# 784
Delta R.T. -0.034 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 58 Resp: 1675046

Ion	Ratio	Lower	Upper
58	100		
43	290.2	295.0	355.0#

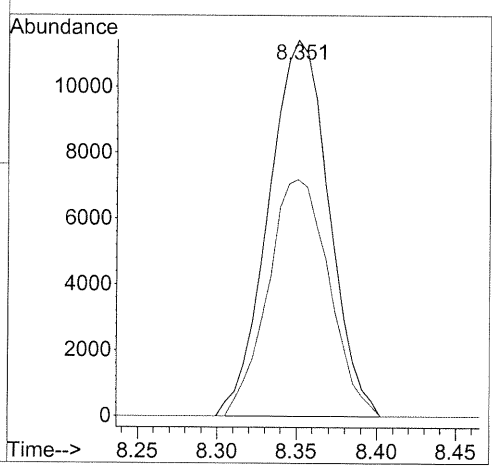


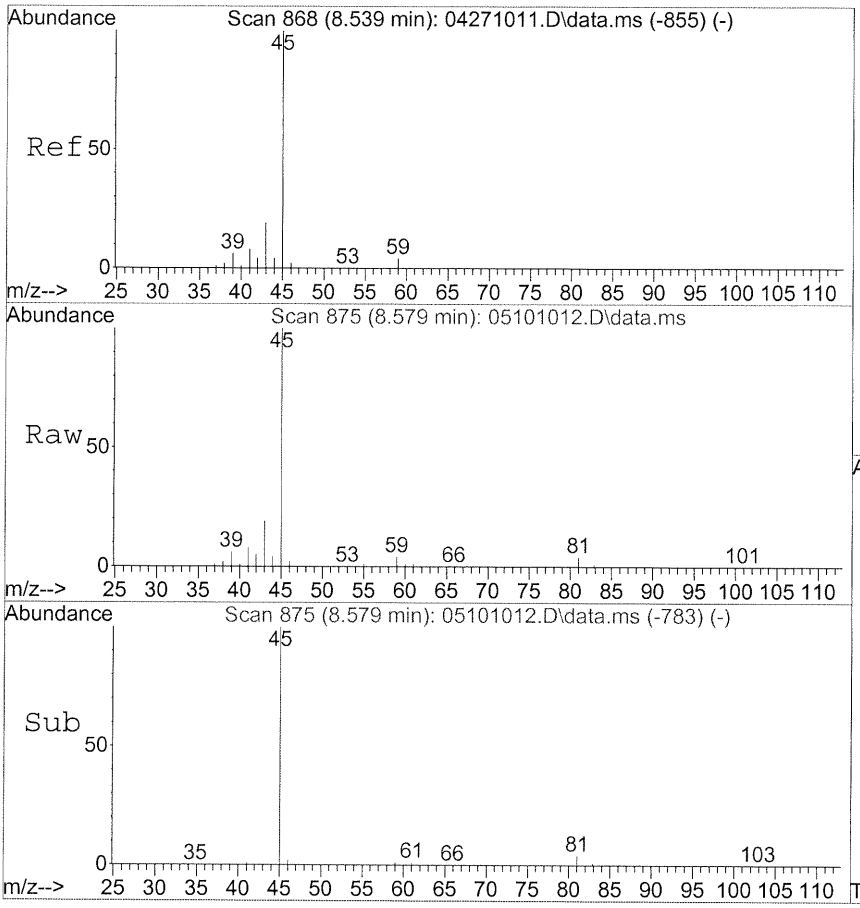


#14
Trichlorofluoromethane
Concen: 0.64 ng
RT: 8.35 min Scan# 835
Delta R.T. -0.011 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:101 Resp: 29985

Ion	Ratio	Lower	Upper
101	100		
103	63.7	43.8	83.8

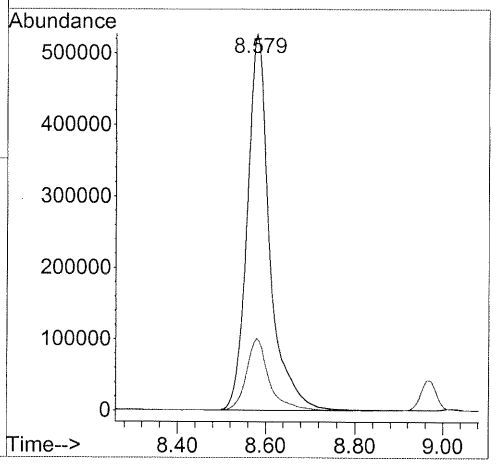


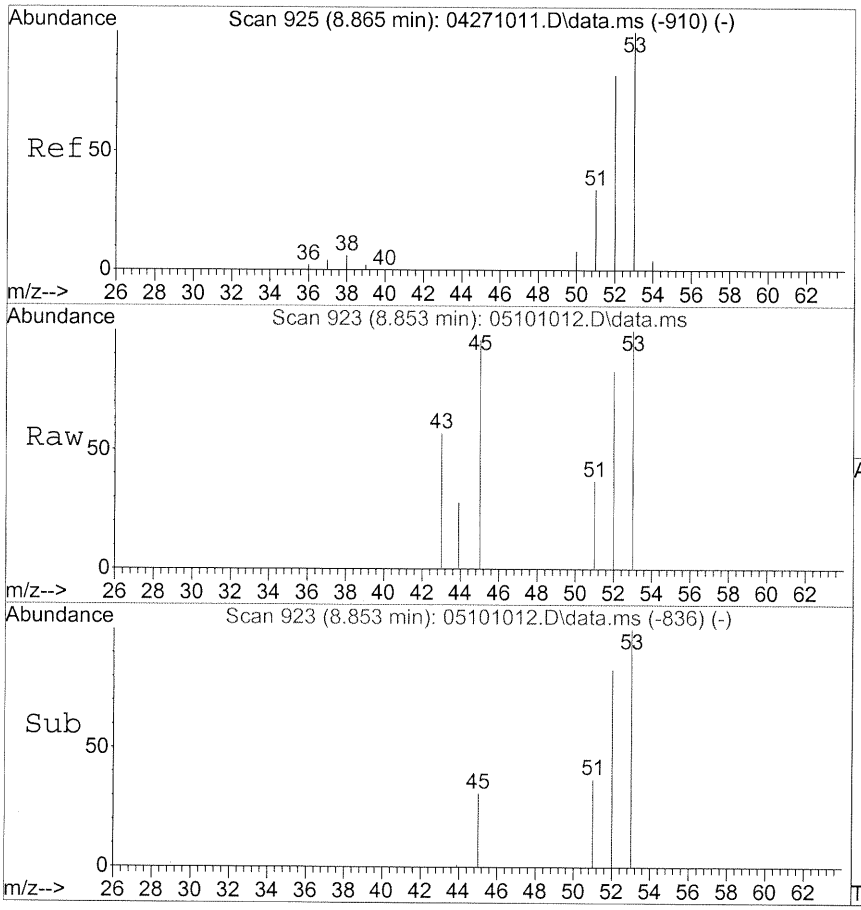


#15
2-Propanol (Isopropanol)
Concen: 37.01 ng
RT: 8.58 min Scan# 875
Delta R.T. 0.023 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 45 Resp: 1851288

Ion	Ratio	Lower	Upper
45	100		
43	19.0	0.0	39.2

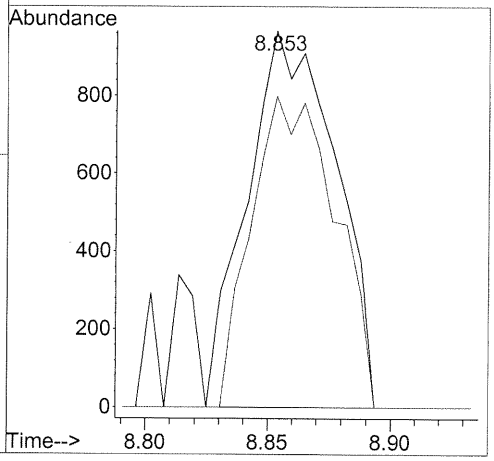


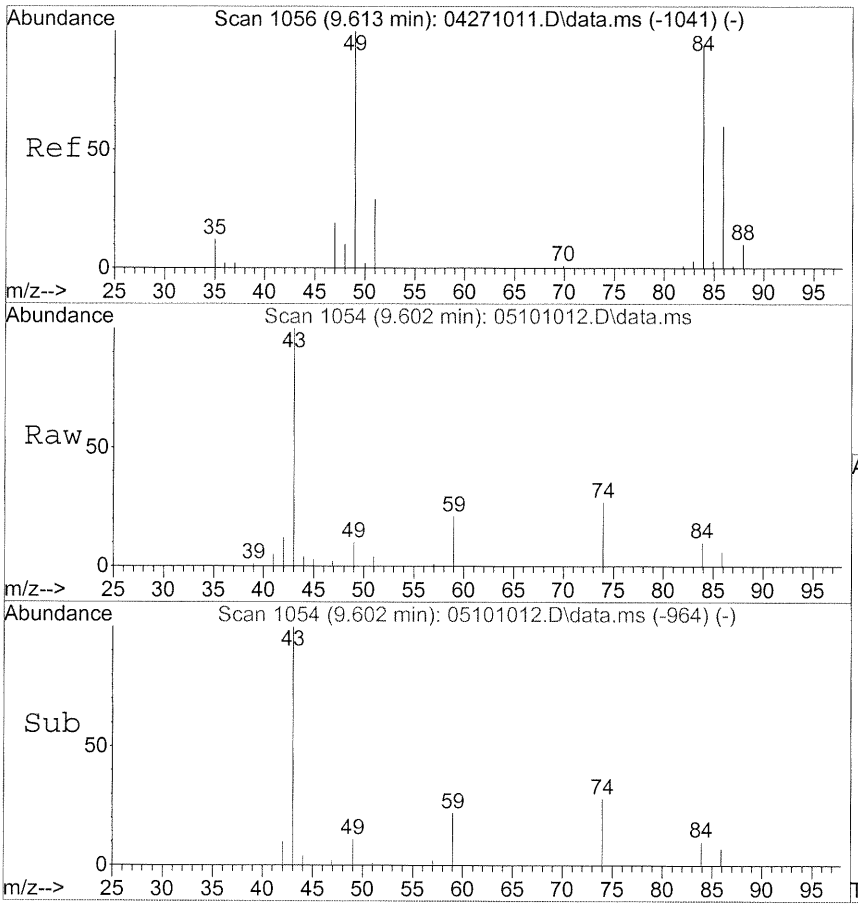


#16
Acrylonitrile
Concen: 0.09 ng
RT: 8.85 min Scan# 923
Delta R.T. -0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 53 Resp: 2427

Ion	Ratio	Lower	Upper
53	100		
52	78.4	64.1	104.1

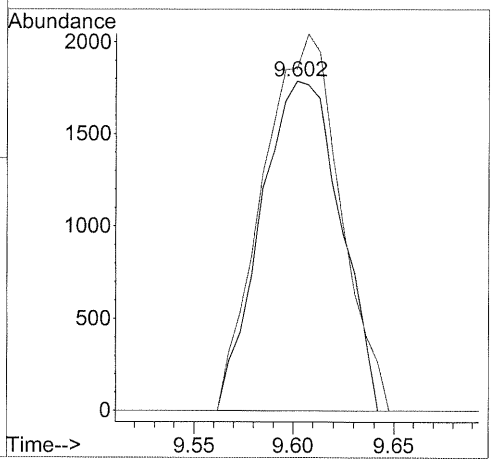


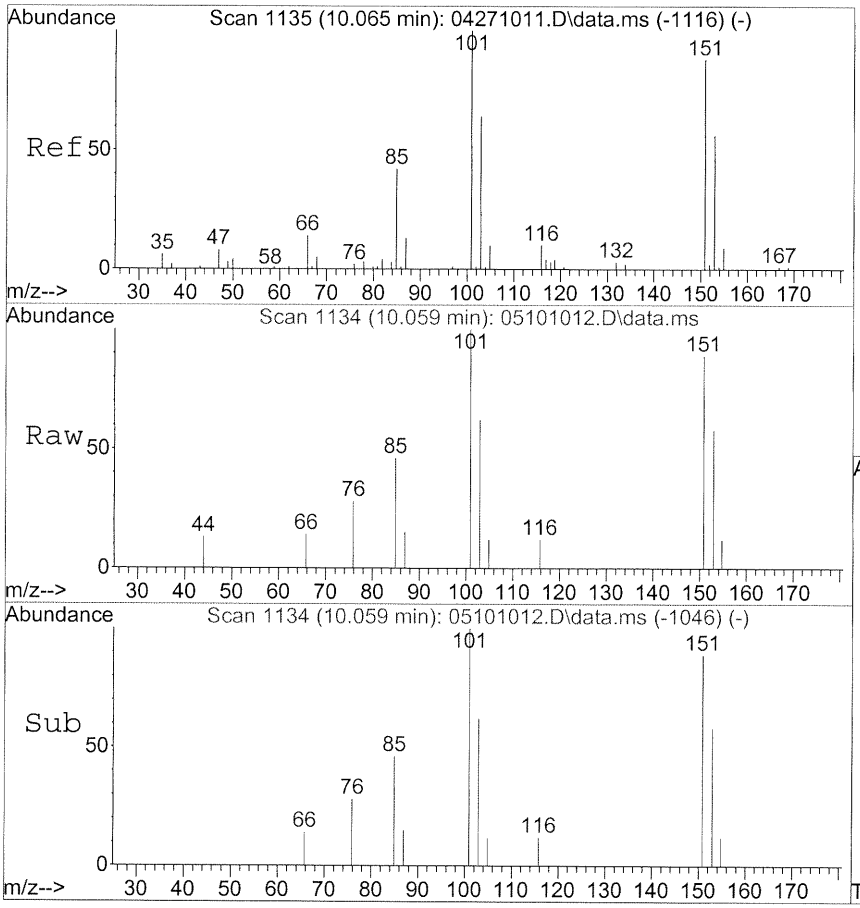


#19
Methylene Chloride
Concen: 0.19 ng
RT: 9.60 min Scan# 1054
Delta R.T. 0.011 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 84 Resp: 4887

Ion	Ratio	Lower	Upper
84	100		
49	111.9	116.6	166.6#

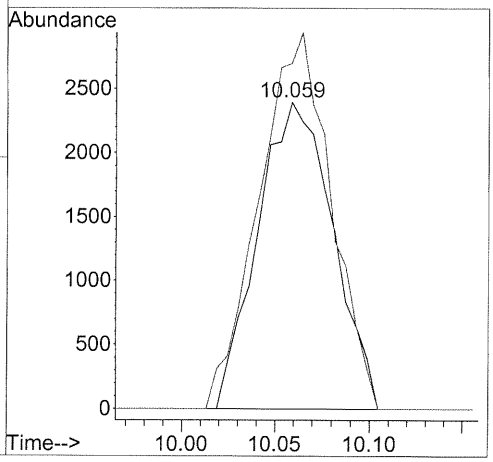


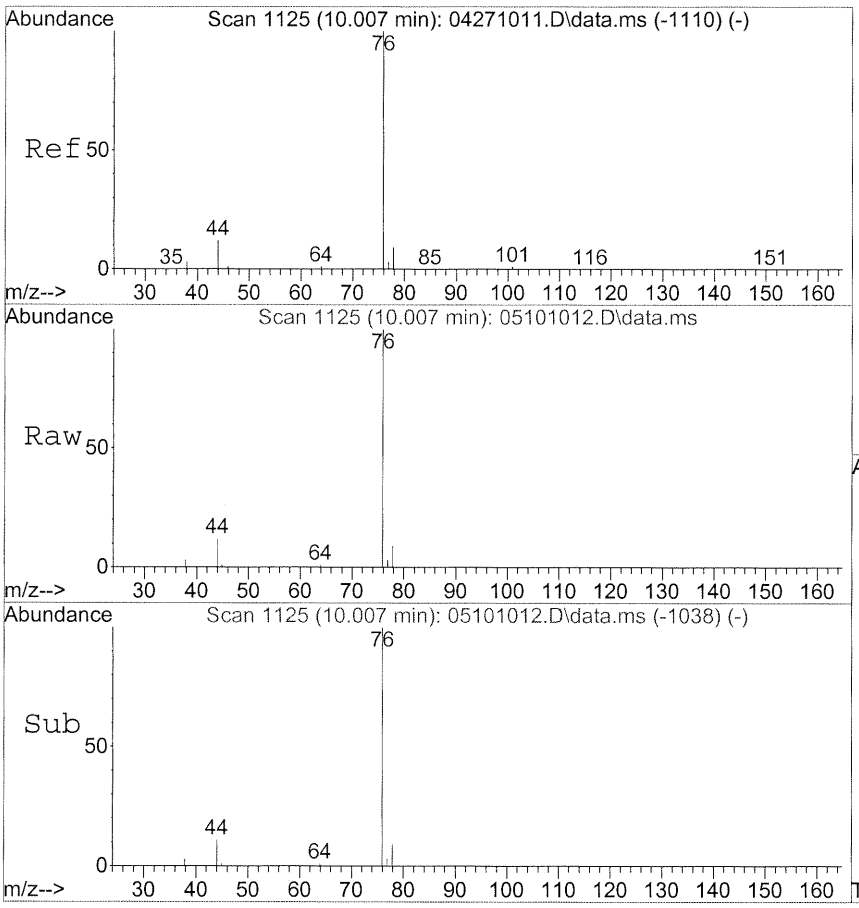


#21
Trichlorotrifluoroethane
Concen: 0.28 ng
RT: 10.06 min Scan# 1134
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:151 Resp: 6655

Ion	Ratio	Lower	Upper
151	100		
101	117.4	125.6	165.6#

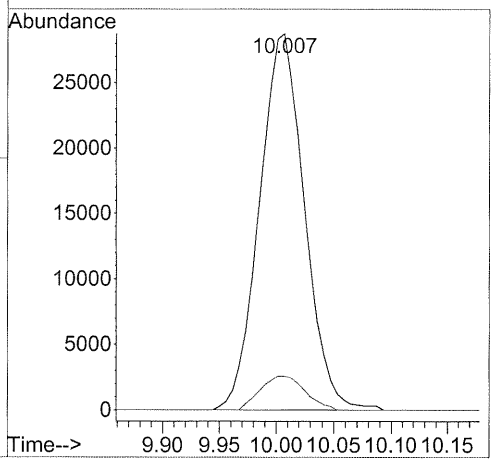


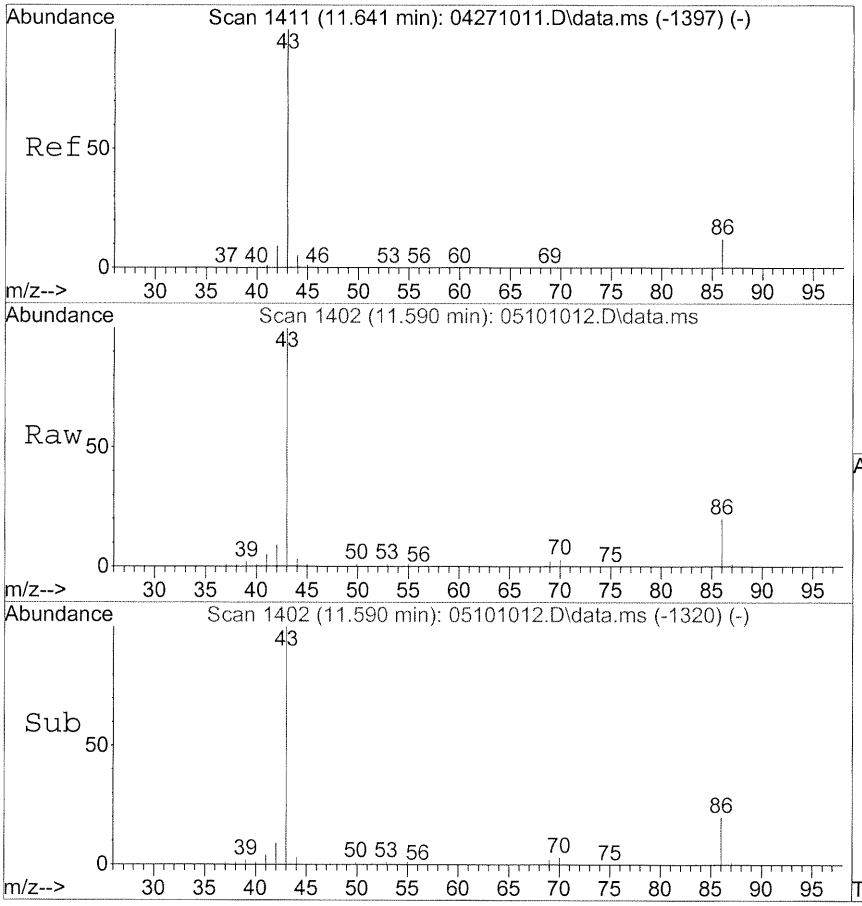


#22
Carbon Disulfide
Concen: 0.94 ng
RT: 10.01 min Scan# 1125
Delta R.T. -0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 76 Resp: 78837

Ion	Ratio	Lower	Upper
76	100		
78	8.8	0.0	29.1

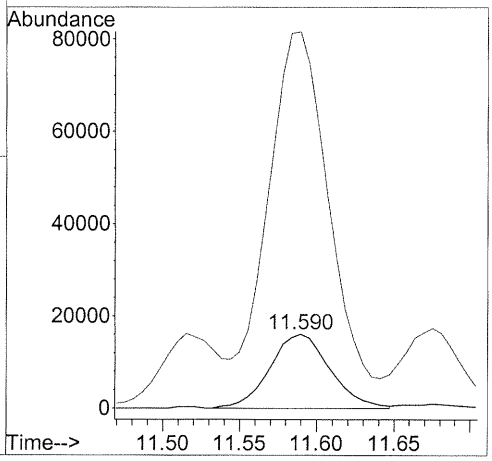


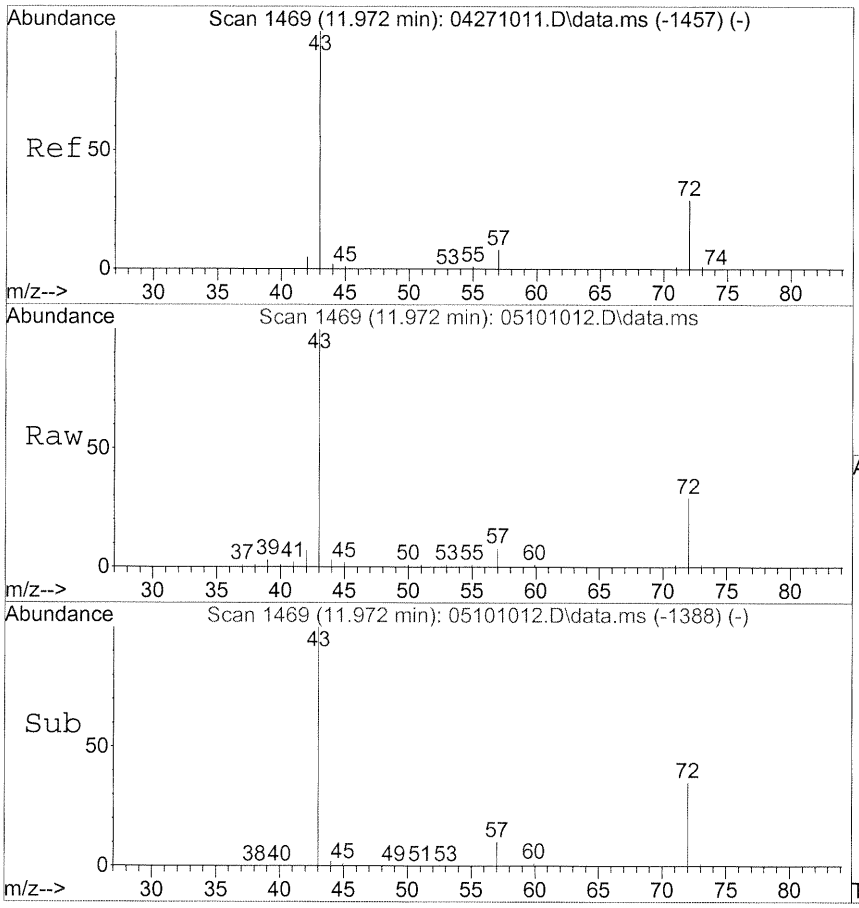


#26
Vinyl Acetate
Concen: 7.24 ng m
RT: 11.59 min Scan# 1402
Delta R.T. -0.034 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 86 Resp: 43247

Ion	Ratio	Lower	Upper
86	100		
43	105.3	1285.5	1325.5#

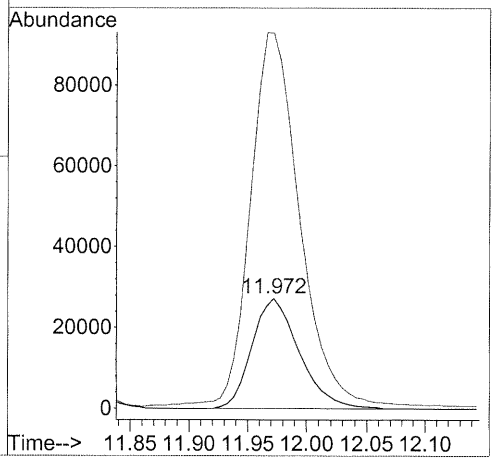


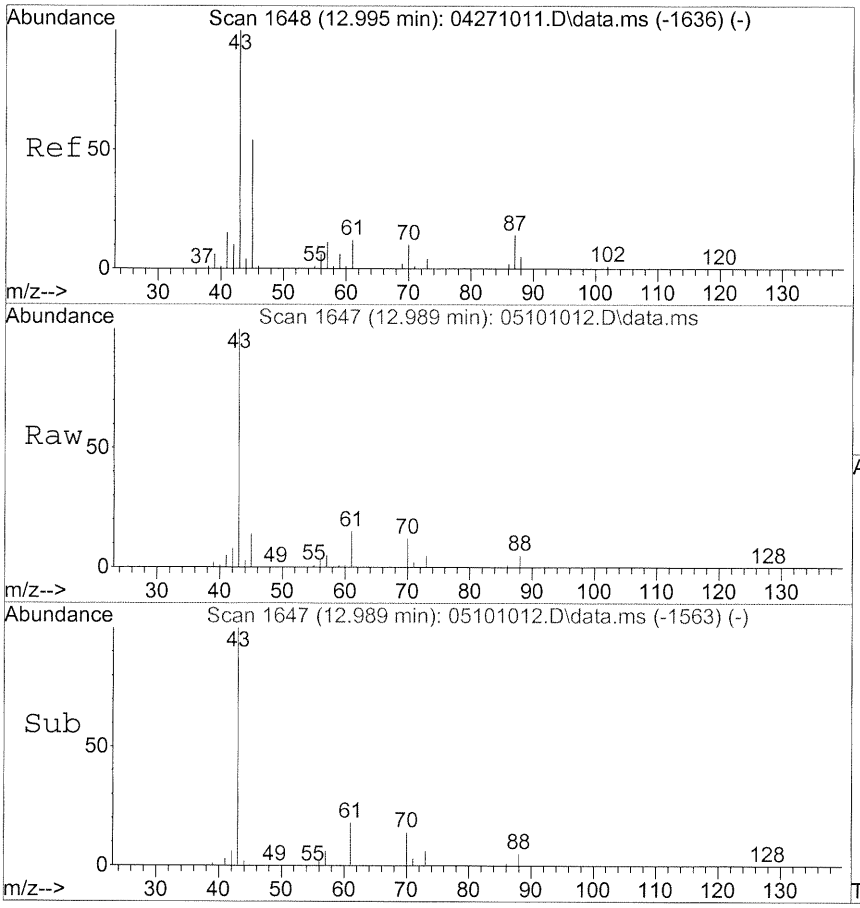


#27
2-Butanone (MEK)
Concen: 4.79 ng
RT: 11.97 min Scan# 1469
Delta R.T. -0.040 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 72 Resp: 75551

Ion	Ratio	Lower	Upper
72	100		
43	356.2	412.3	452.3#

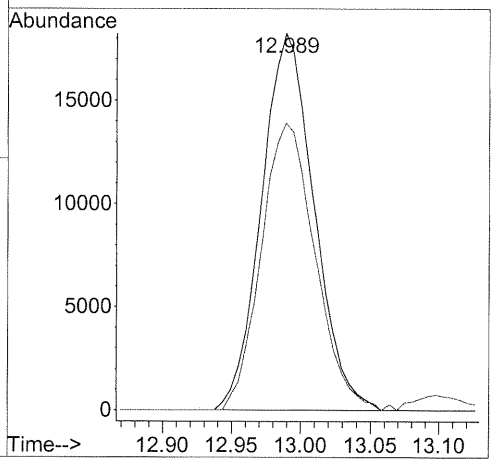


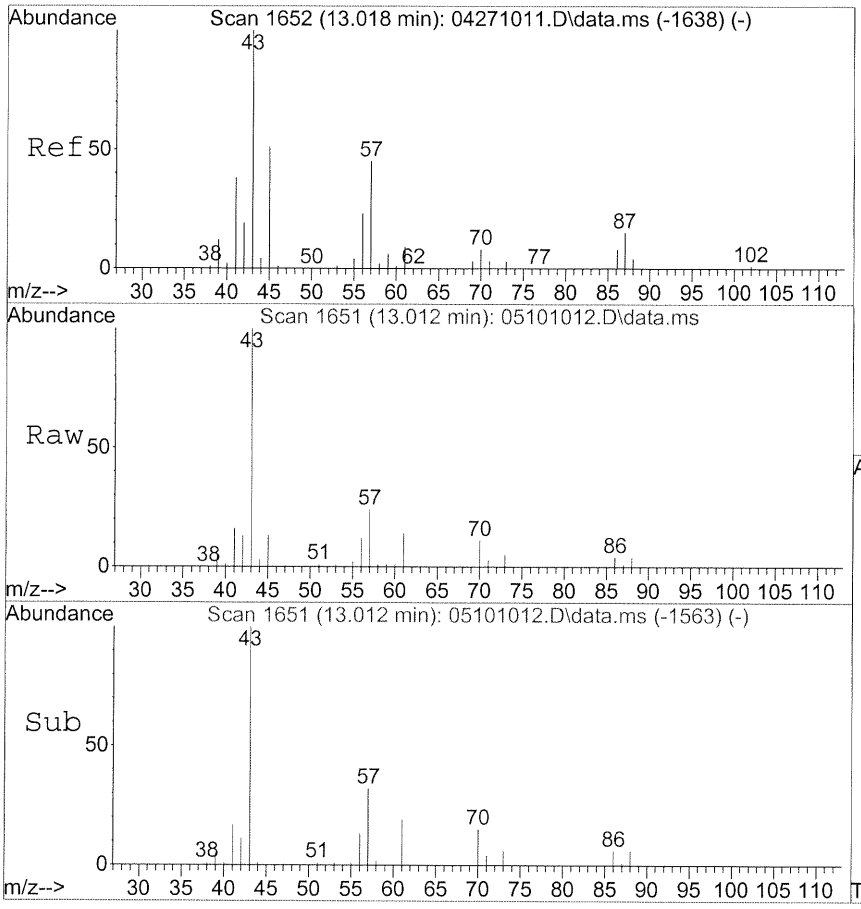


#30
Ethyl Acetate
Concen: 5.76 ng
RT: 12.99 min Scan# 1647
Delta R.T. -0.023 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 61 Resp: 48229

Ion	Ratio	Lower	Upper
61	100		
70	78.0	52.2	92.2

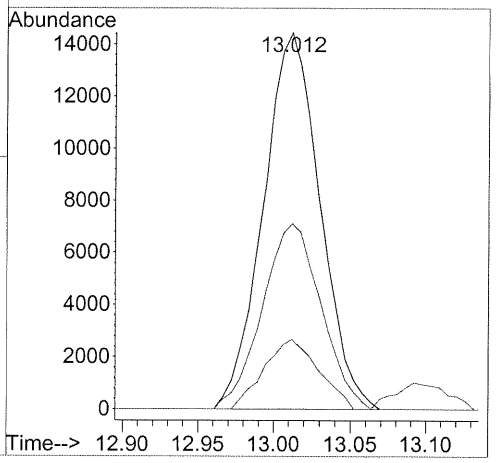


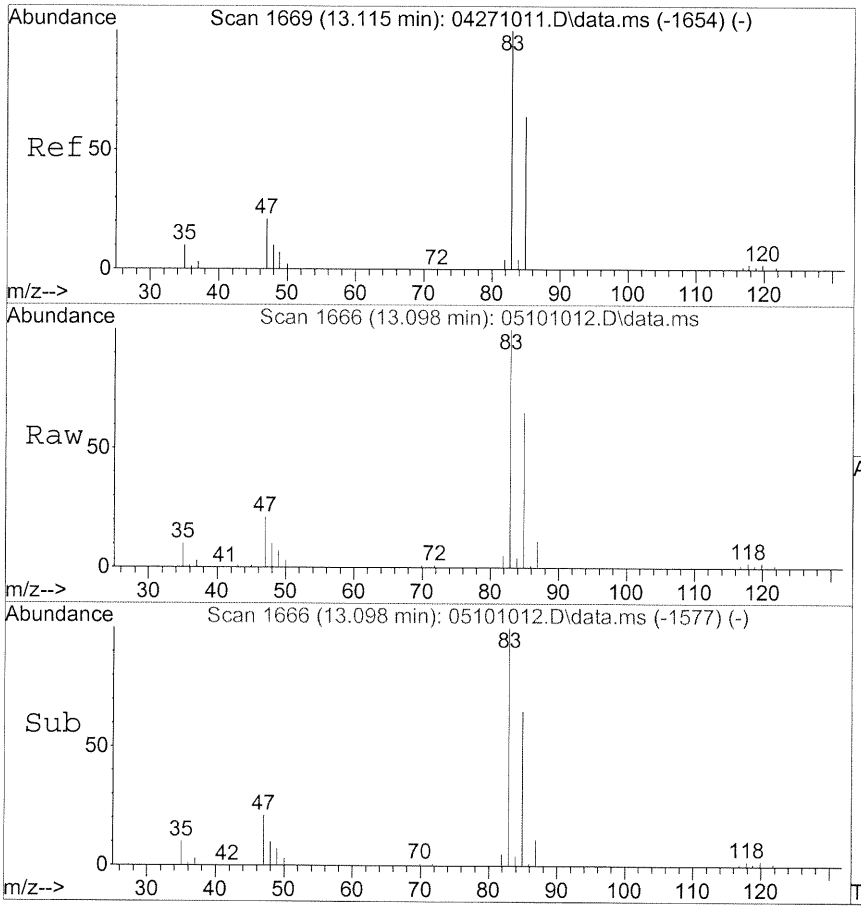


#31
n-Hexane
Concen: 0.93 ng
RT: 13.01 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 57 Resp: 37194

Ion	Ratio	Lower	Upper
57	100		
56	50.8	40.0	60.0
86	17.8	11.5	17.3#

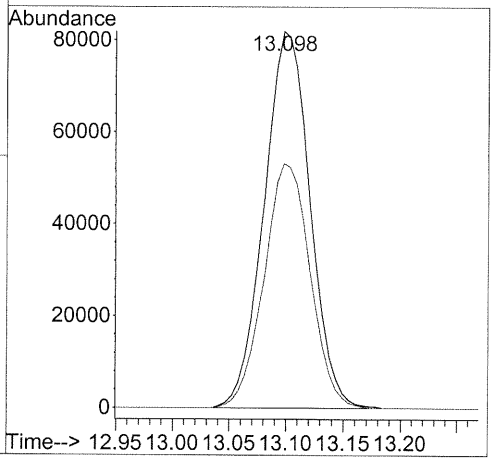


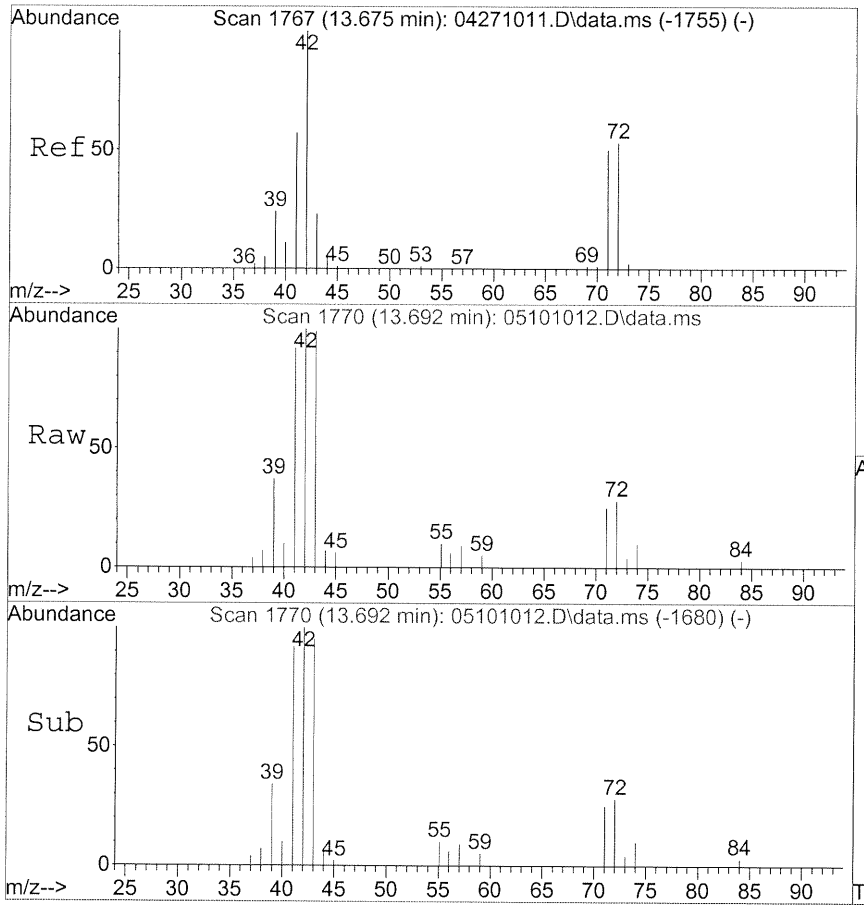


#32
Chloroform
Concen: 5.42 ng
RT: 13.10 min Scan# 1666
Delta R.T. 0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 83 Resp: 230141

Ion	Ratio	Lower	Upper
83	100		
85	65.3	44.0	84.0

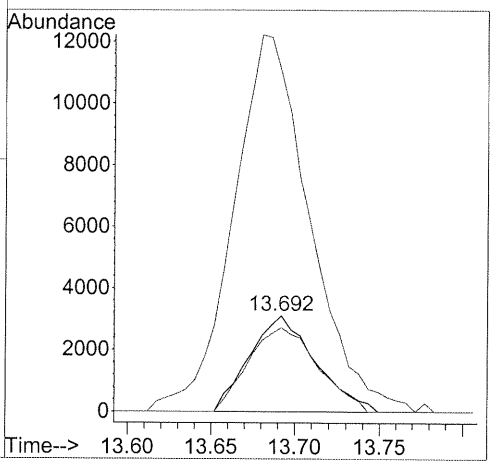


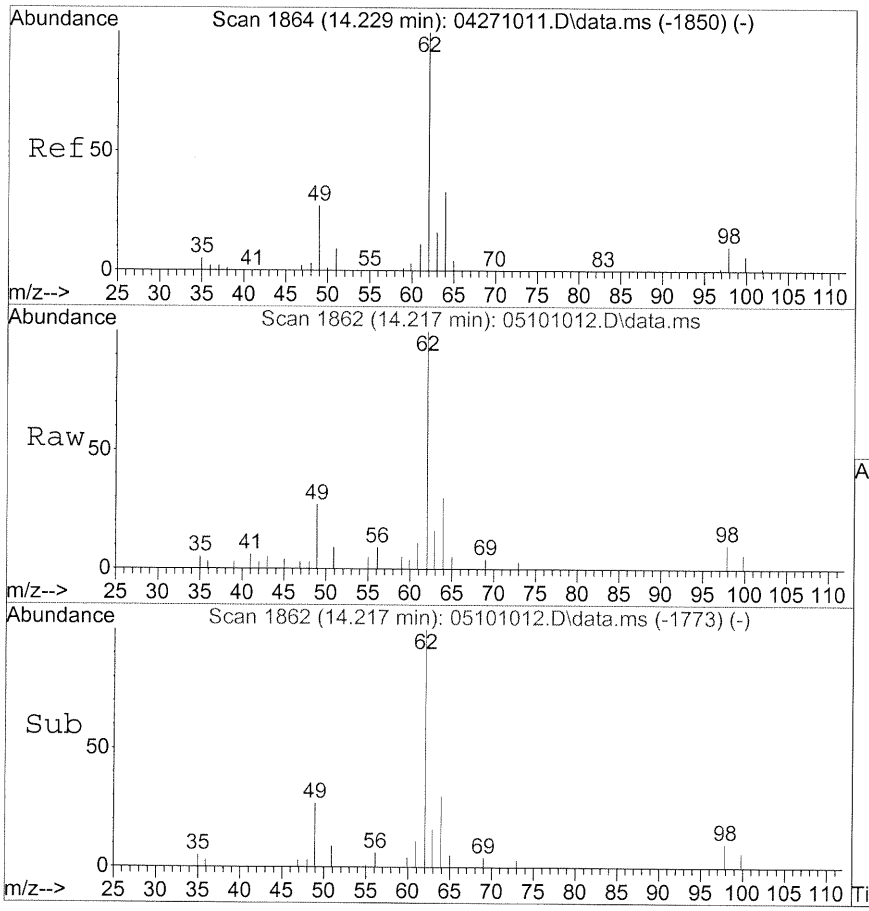


#34
Tetrahydrofuran (THF)
Concen: 0.55 ng
RT: 13.69 min Scan# 1770
Delta R.T. 0.012 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 72 Resp: 8406

Ion	Ratio	Lower	Upper
72	100		
71	92.0	76.0	116.0
42	460.2	231.9	271.9#

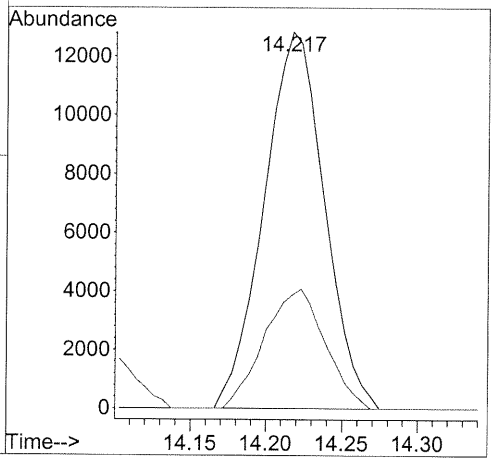


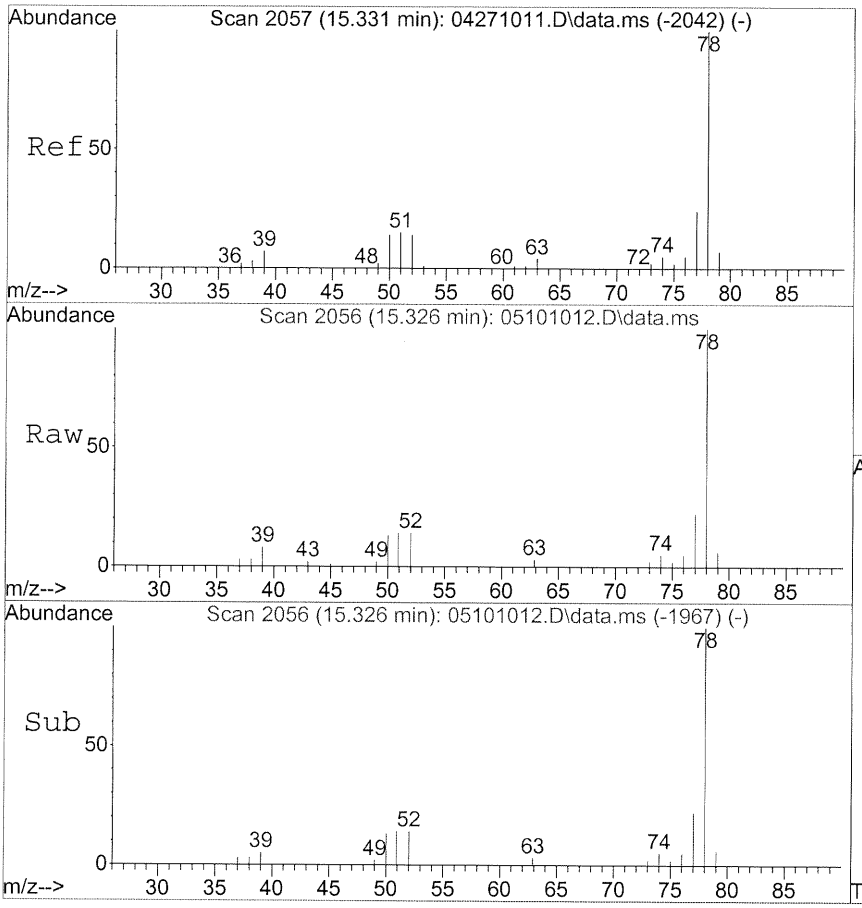


#36
1,2-Dichloroethane
Concen: 1.11 ng
RT: 14.22 min Scan# 1862
Delta R.T. 0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 62 Resp: 35394

Ion	Ratio	Lower	Upper
62	100		
64	32.0	12.0	52.0

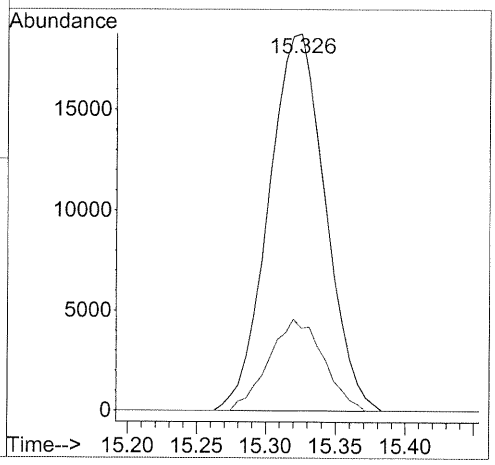


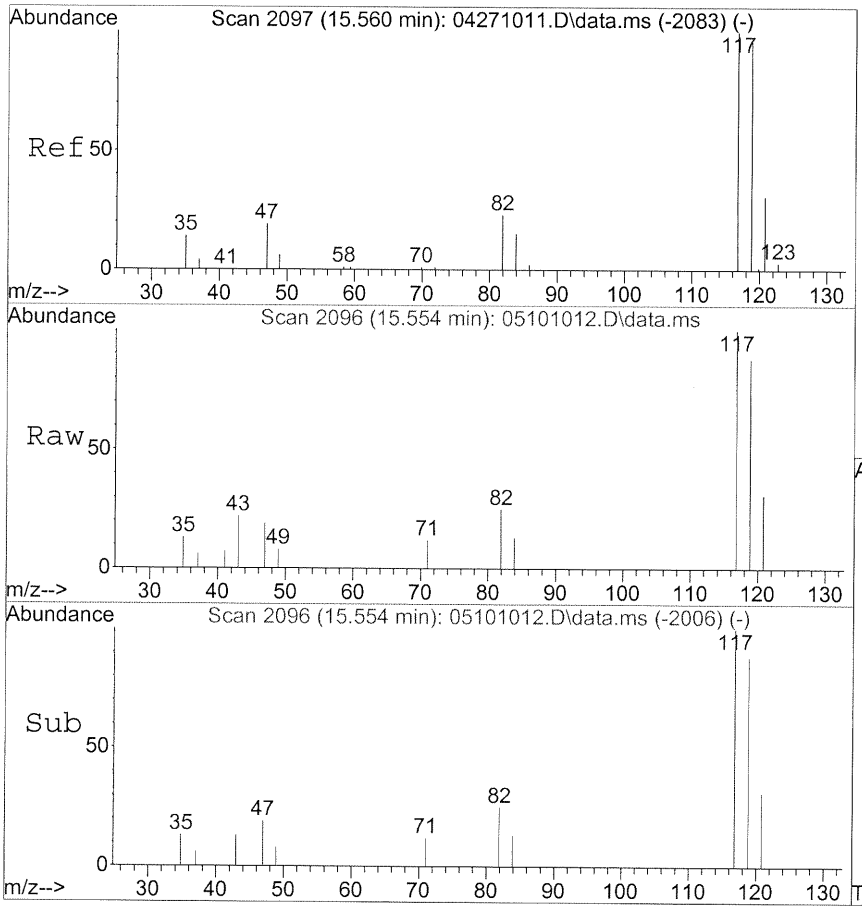


#41
Benzene
Concen: 0.51 ng
RT: 15.33 min Scan# 2056
Delta R.T. 0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 78 Resp: 52891

Ion	Ratio	Lower	Upper
78	100		
77	23.3	4.4	44.4

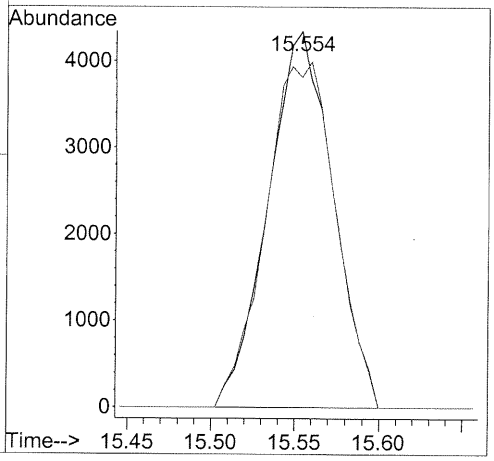


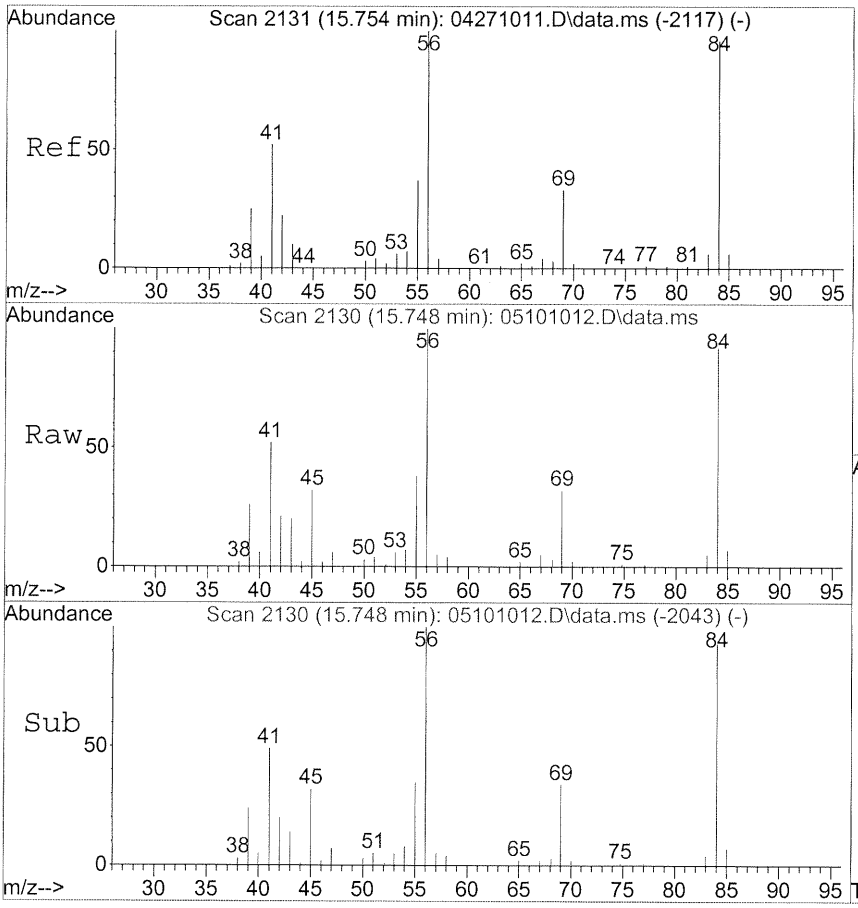


#42
Carbon Tetrachloride
Concen: 0.36 ng
RT: 15.55 min Scan# 2096
Delta R.T. 0.011 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:117 Resp: 11643

Ion	Ratio	Lower	Upper
117	100		
119	98.9	75.8	115.8

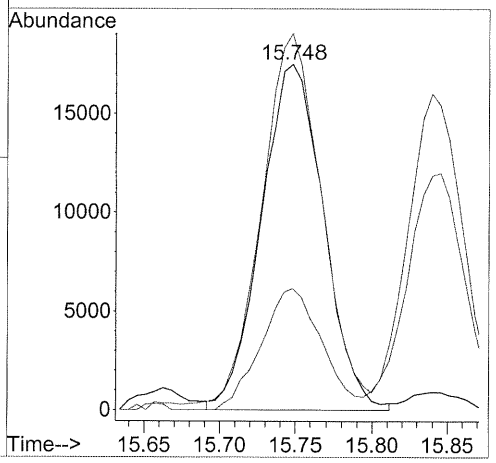


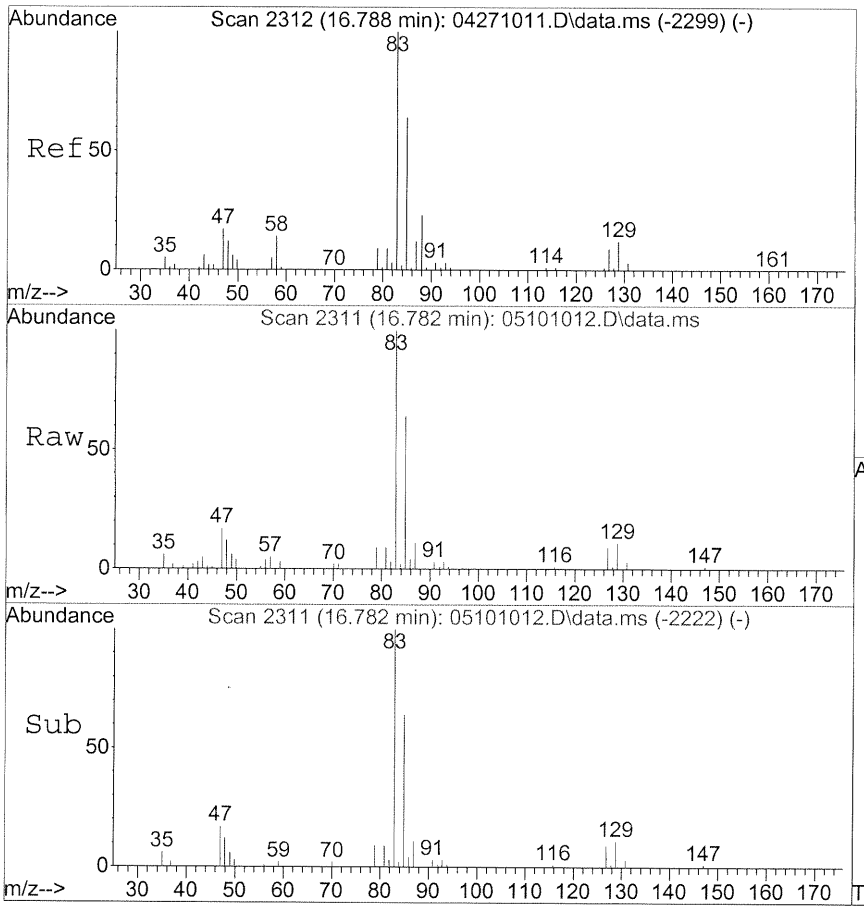


#43
Cyclohexane
Concen: 1.27 ng
RT: 15.75 min Scan# 2130
Delta R.T. -0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 84 Resp: 49605

Ion	Ratio	Lower	Upper
84	100		
69	34.4	18.4	58.4
56	105.9	112.6	152.6#

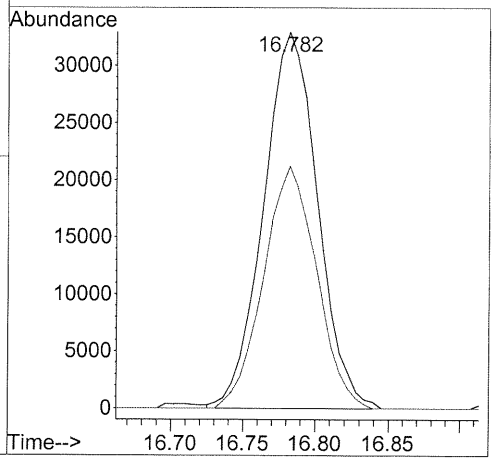


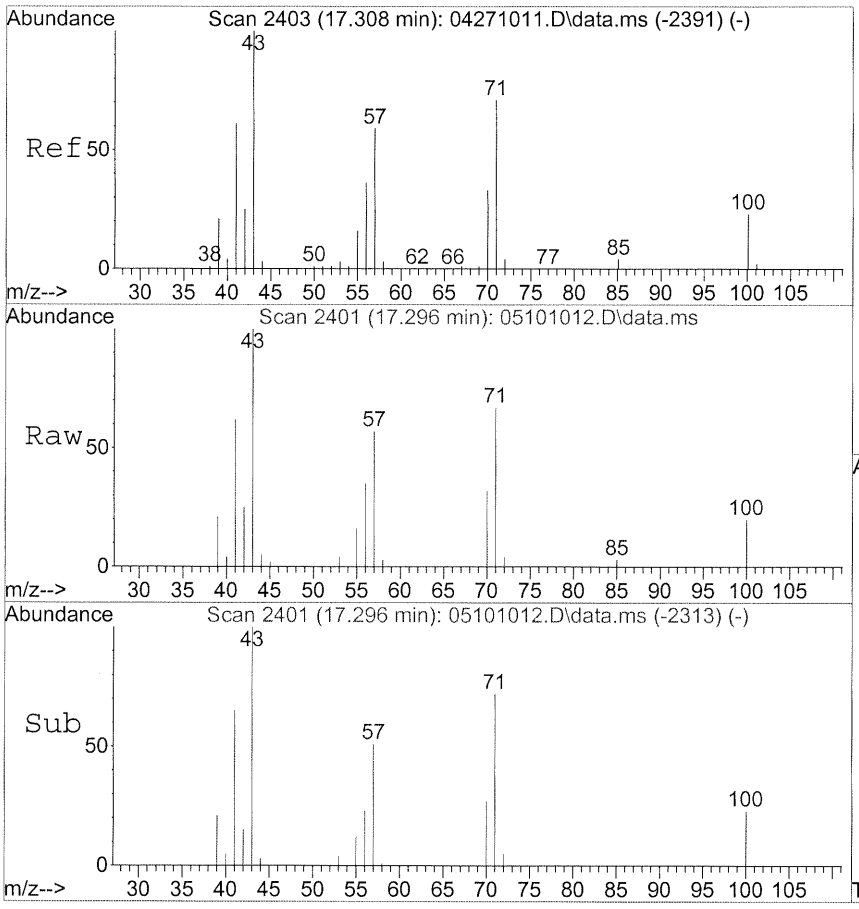


#46
Bromodichloromethane
Concen: 2.72 ng
RT: 16.78 min Scan# 2311
Delta R.T. 0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 83 Resp: 85491

Ion	Ratio	Lower	Upper
83	100		
85	63.0	42.8	82.8

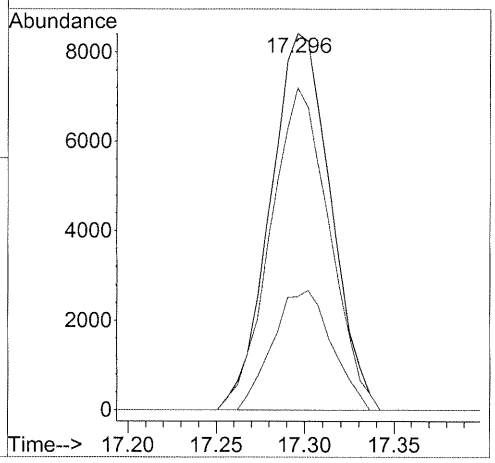


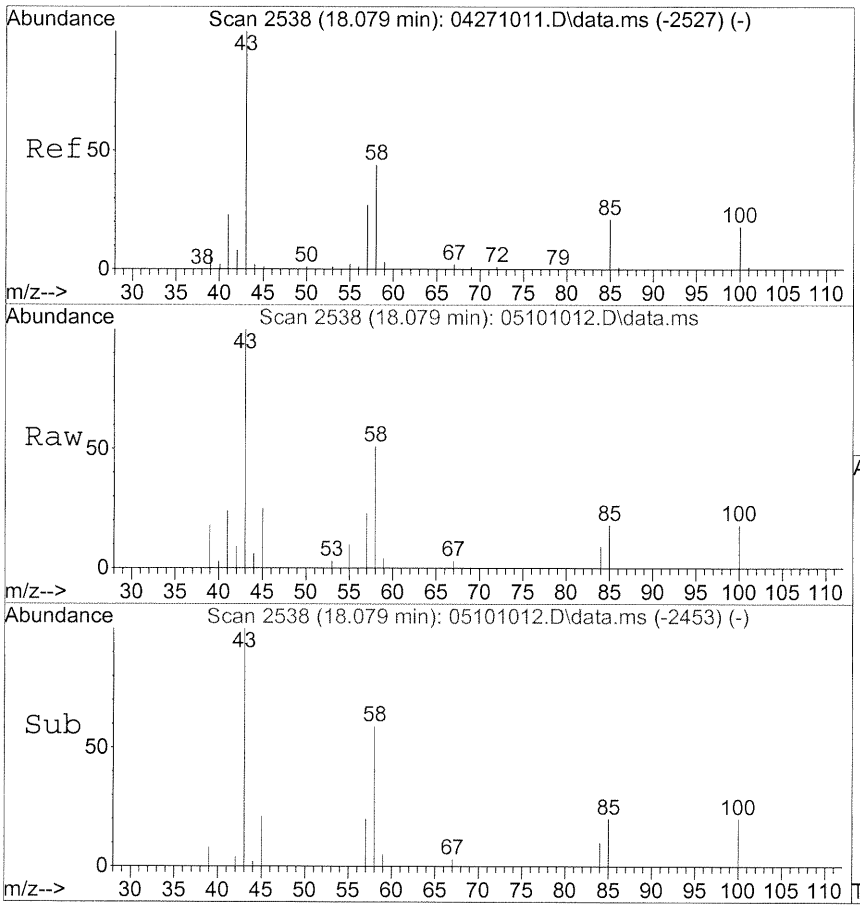


#51
n-Heptane
Concen: 0.79 ng
RT: 17.30 min Scan# 2401
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 71 Resp: 19672

Ion	Ratio	Lower	Upper
71	100		
57	83.9	74.9	114.9
100	31.0	5.0	45.0

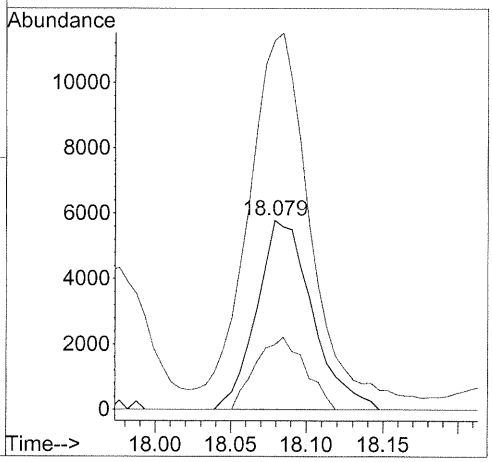


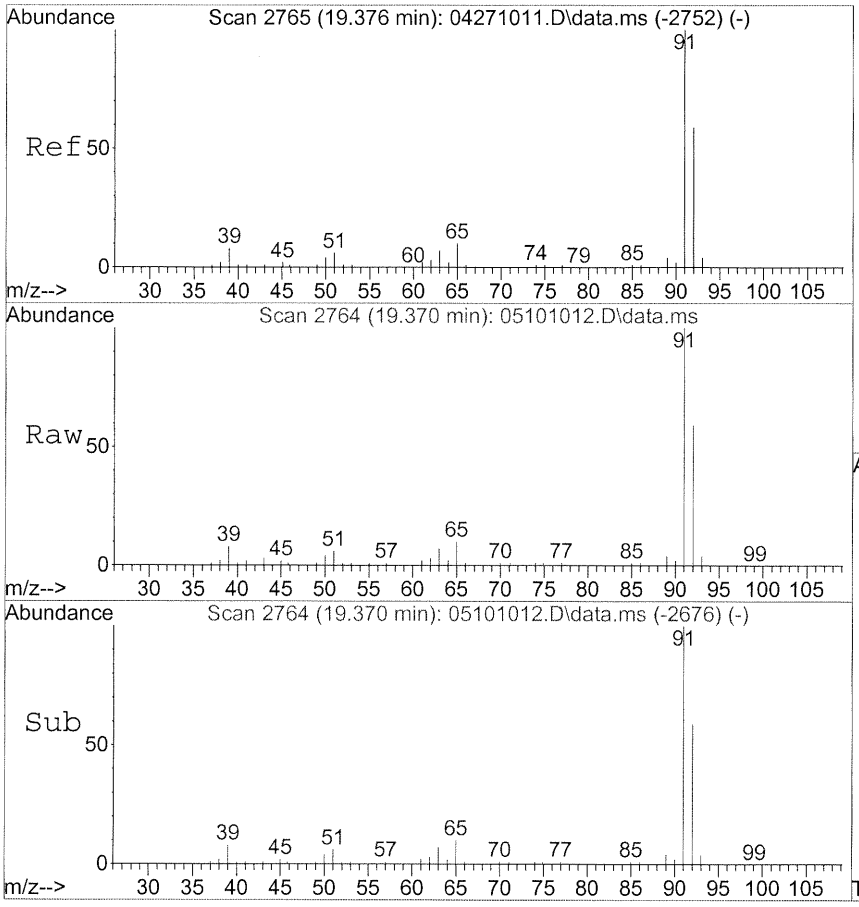


#53
4-Methyl-2-pentanone
Concen: 0.74 ng
RT: 18.08 min Scan# 2538
Delta R.T. -0.017 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 58 Resp: 14675

Ion	Ratio	Lower	Upper
58	100		
43	205.7	207.1	310.7#
85	34.2	31.4	47.2

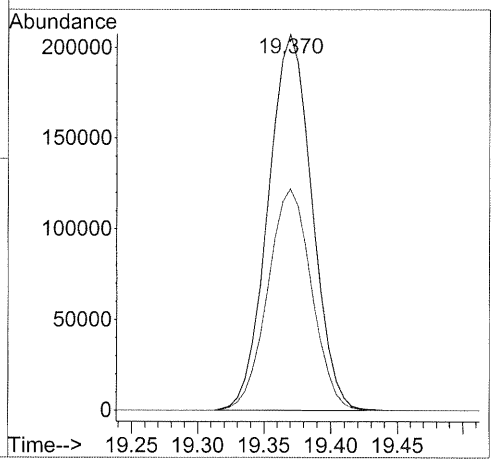


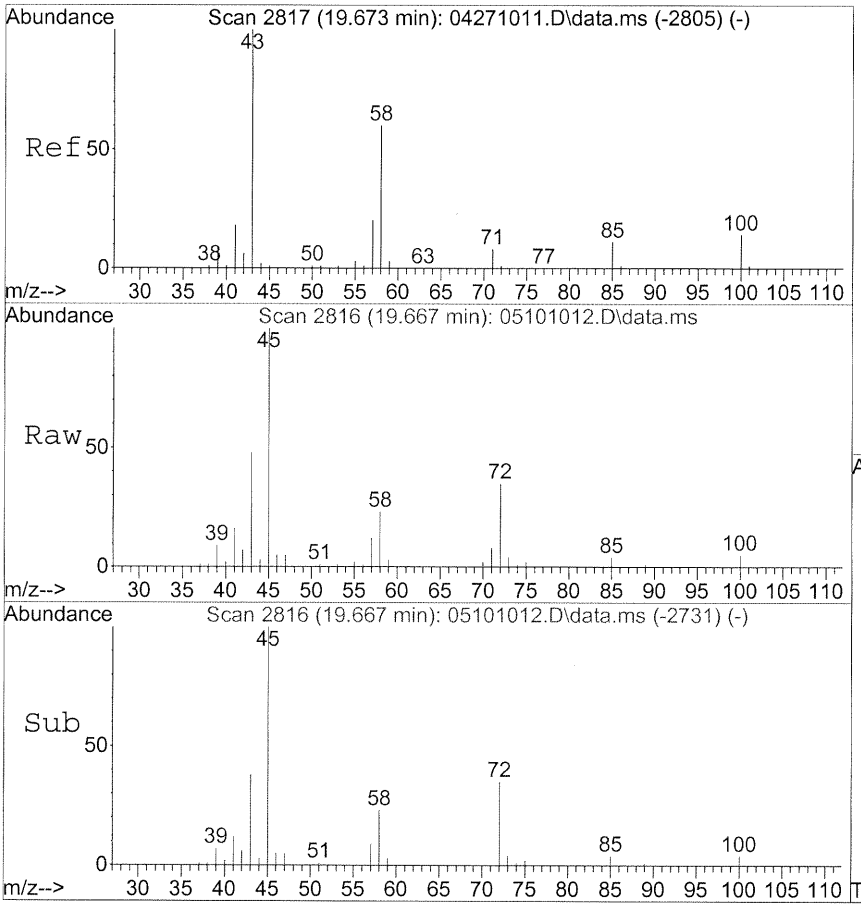


#58
Toluene
Concen: 4.30 ng
RT: 19.37 min Scan# 2764
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 91 Resp: 475771

Ion	Ratio	Lower	Upper
91	100		
92	58.8	37.6	77.6

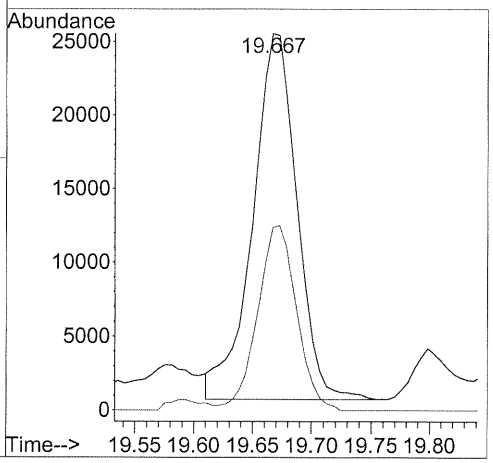


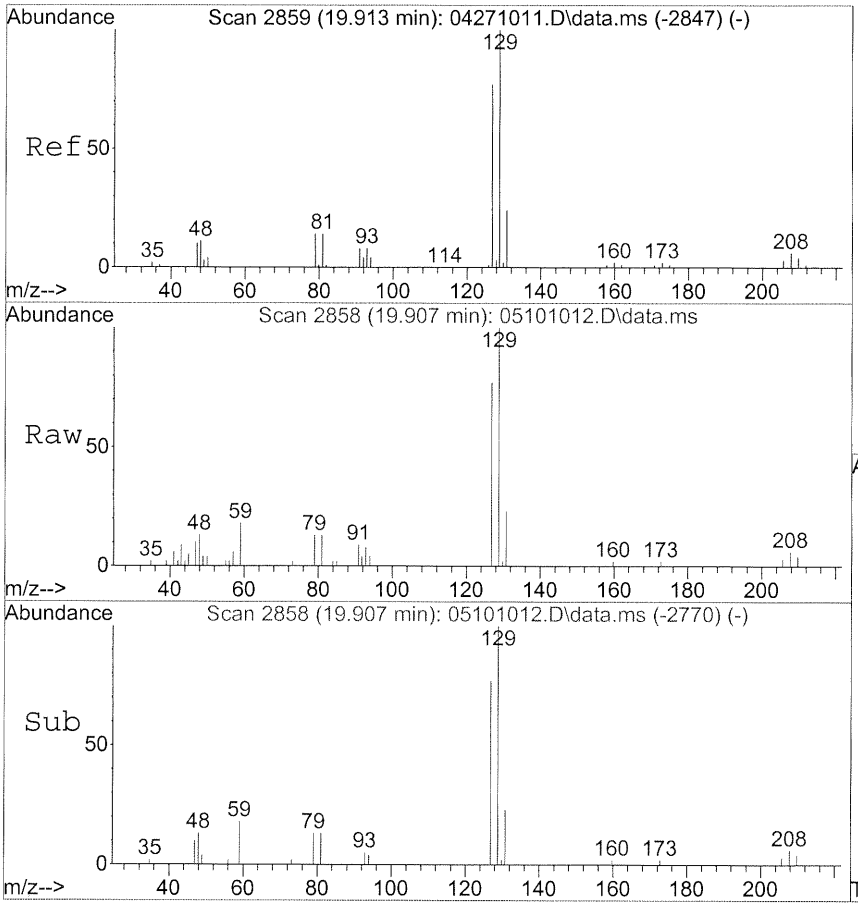


#59
2-Hexanone
Concen: 1.38 ng
RT: 19.67 min Scan# 2816
Delta R.T. -0.017 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 43 Resp: 64778

Ion	Ratio	Lower	Upper
43	100		
58	44.2	33.3	73.3

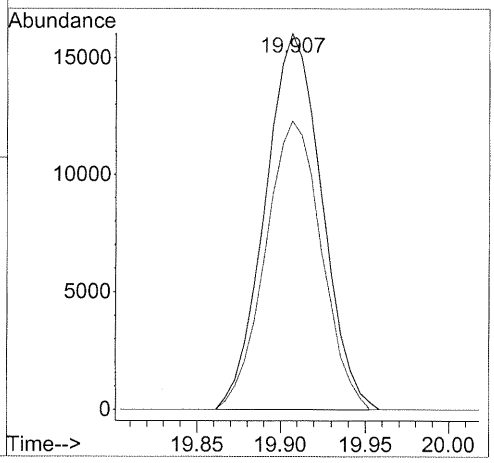


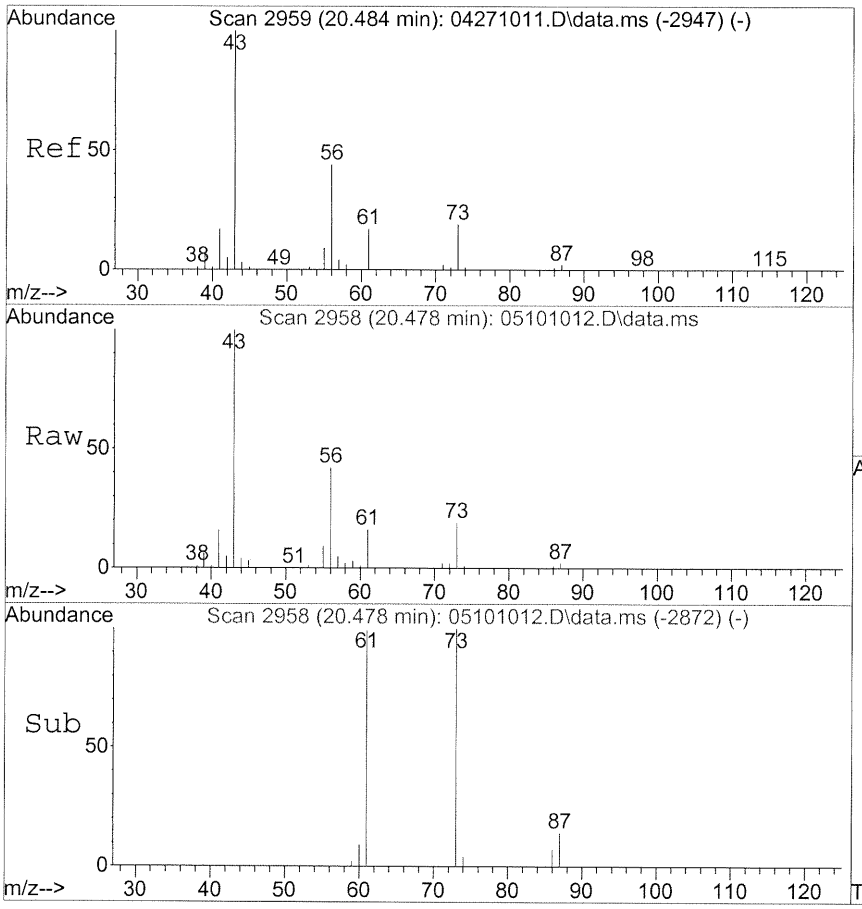


#60
Dibromochloromethane
Concen: 1.41 ng
RT: 19.91 min Scan# 2858
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:129 Resp: 37432

Ion	Ratio	Lower	Upper
129	100		
127	75.9	57.2	97.2

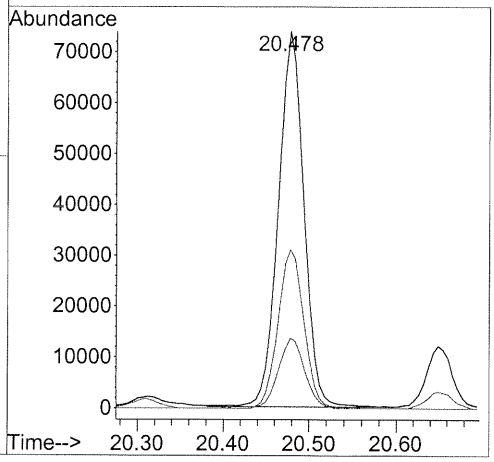


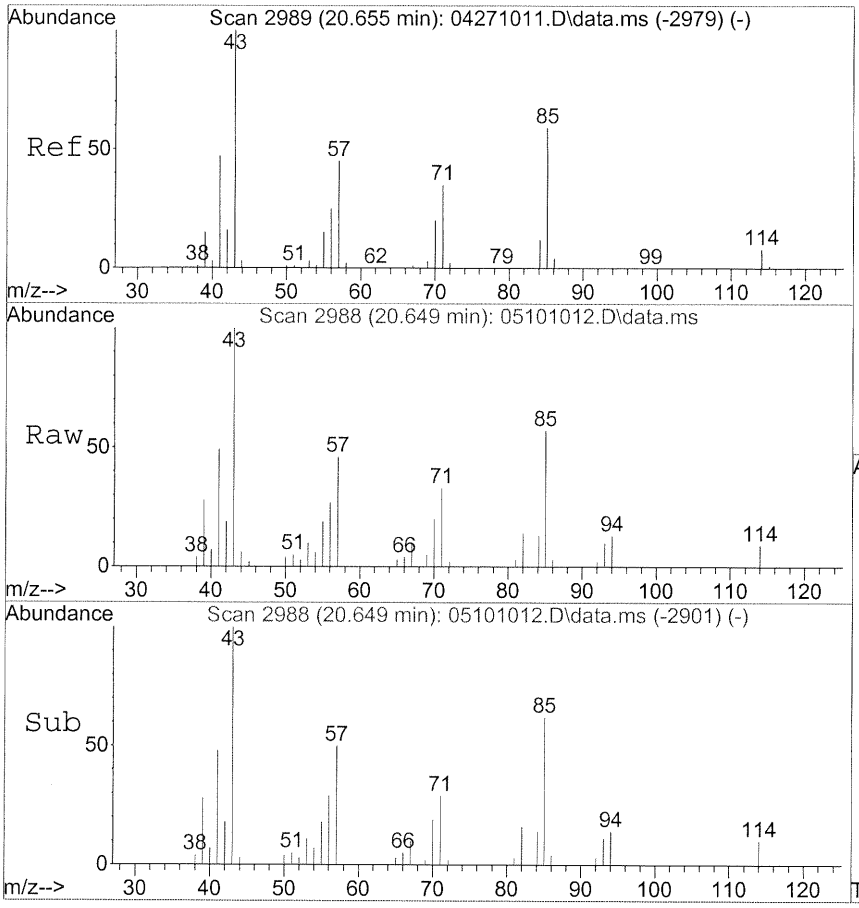


#62
n-Butyl Acetate
Concen: 2.86 ng
RT: 20.48 min Scan# 2958
Delta R.T. -0.011 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 43 Resp: 153162

Ion	Ratio	Lower	Upper
43	100		
56	42.4	19.7	59.7
73	19.0	0.0	34.2

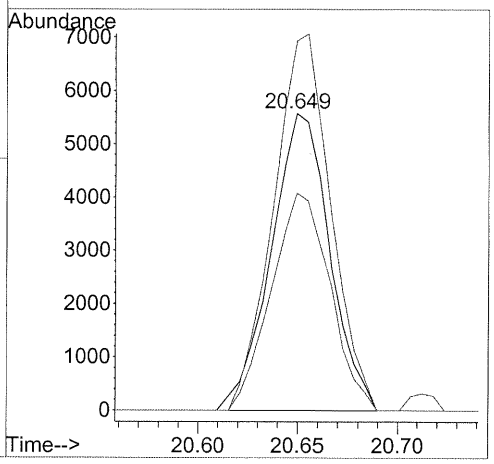


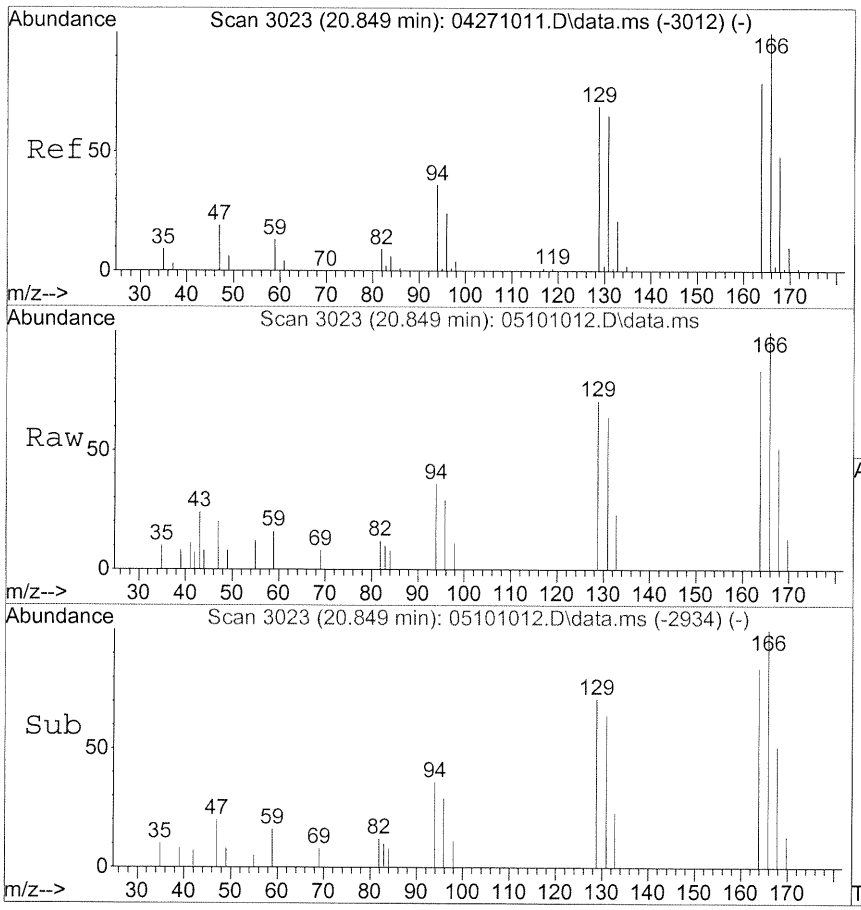


#63
n-Octane
Concen: 0.57 ng
RT: 20.65 min Scan# 2988
Delta R.T. -0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 57 Resp: 11301

Ion	Ratio	Lower	Upper
57	100		
85	123.8	81.8	122.8#
71	73.2	55.0	82.6

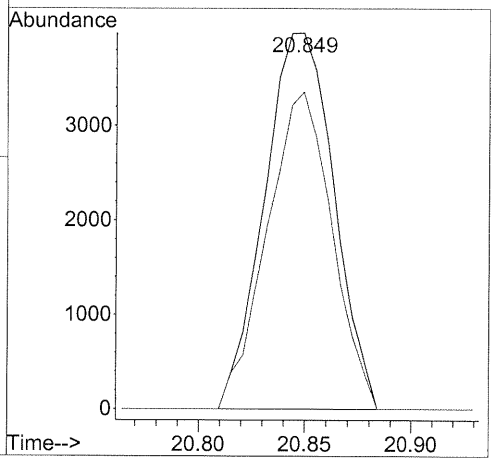


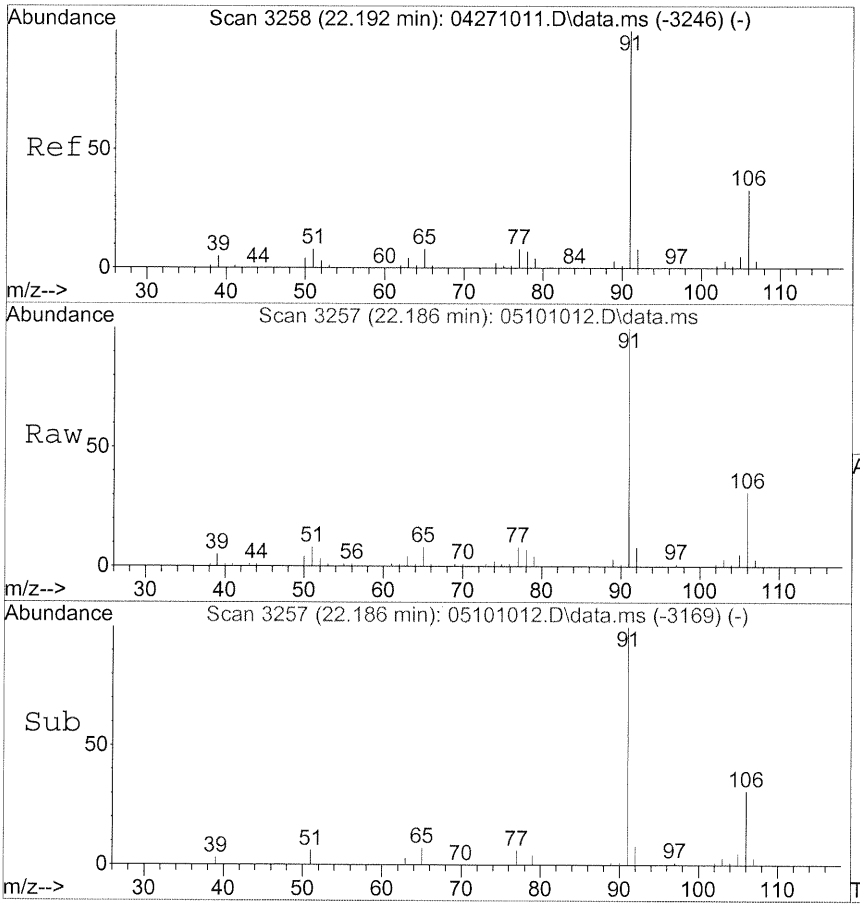


#64
Tetrachloroethene
Concen: 0.26 ng
RT: 20.85 min Scan# 3023
Delta R.T. 0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:166 Resp: 9010

Ion	Ratio	Lower	Upper
166	100		
164	79.0	58.4	98.4

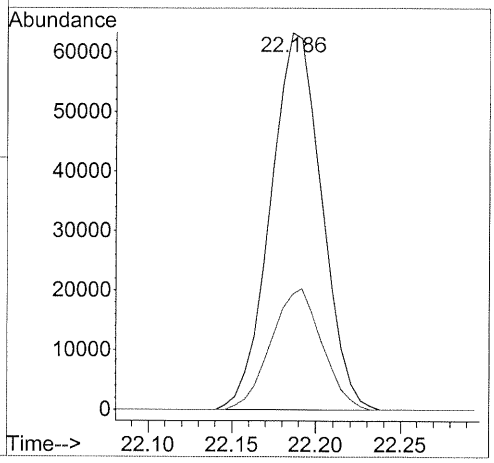


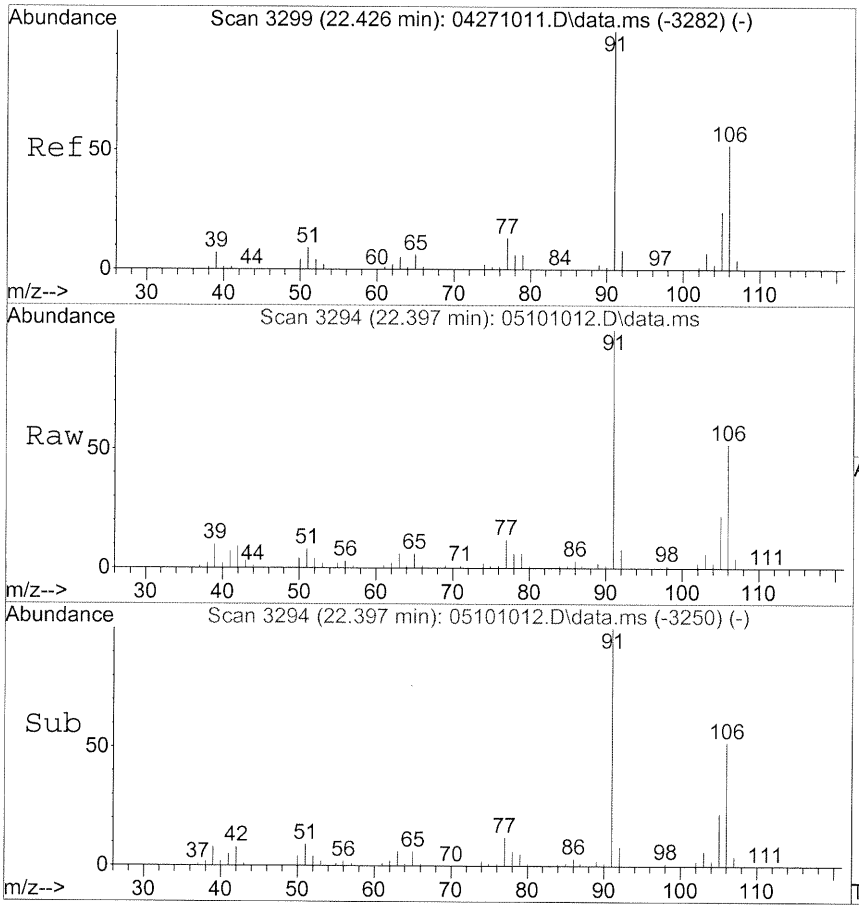


#66
Ethylbenzene
Concen: 1.10 ng
RT: 22.19 min Scan# 3257
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 91 Resp: 133199

Ion	Ratio	Lower	Upper
91	100		
106	31.8	9.8	49.8

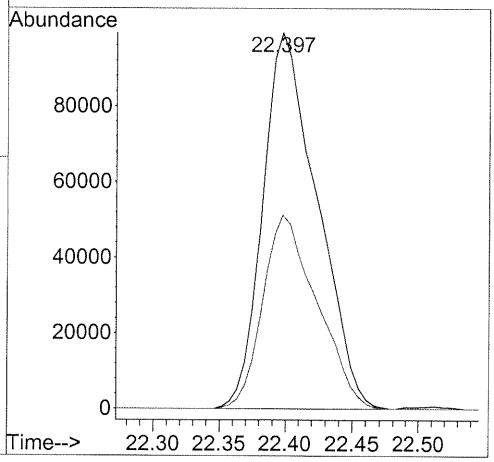


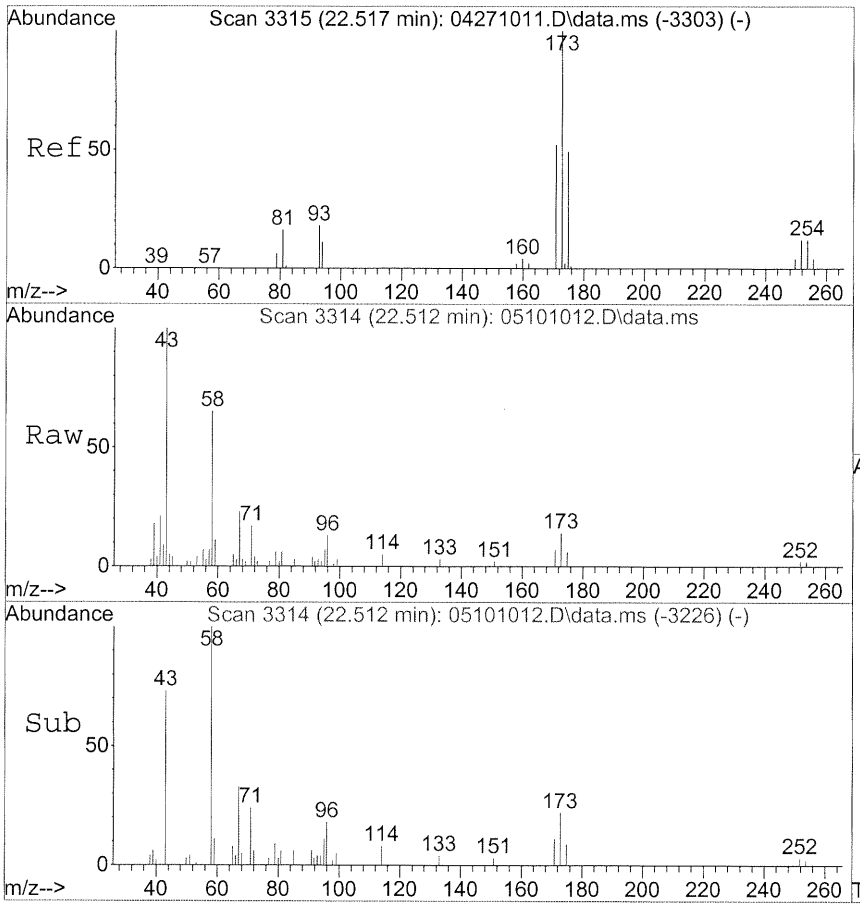


#67
m- & p-Xylenes
Concen: 2.95 ng
RT: 22.40 min Scan# 3294
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 91 Resp: 282896

Ion	Ratio	Lower	Upper
91	100		
106	51.4	26.8	66.8

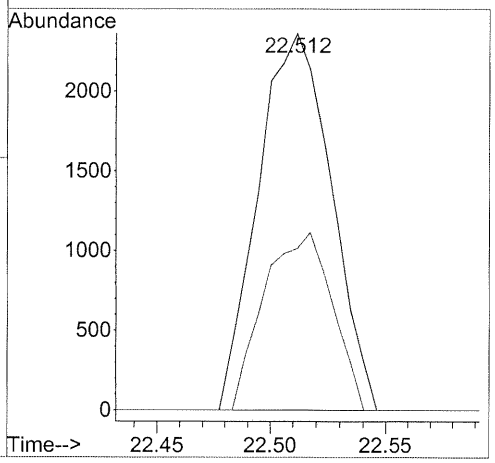


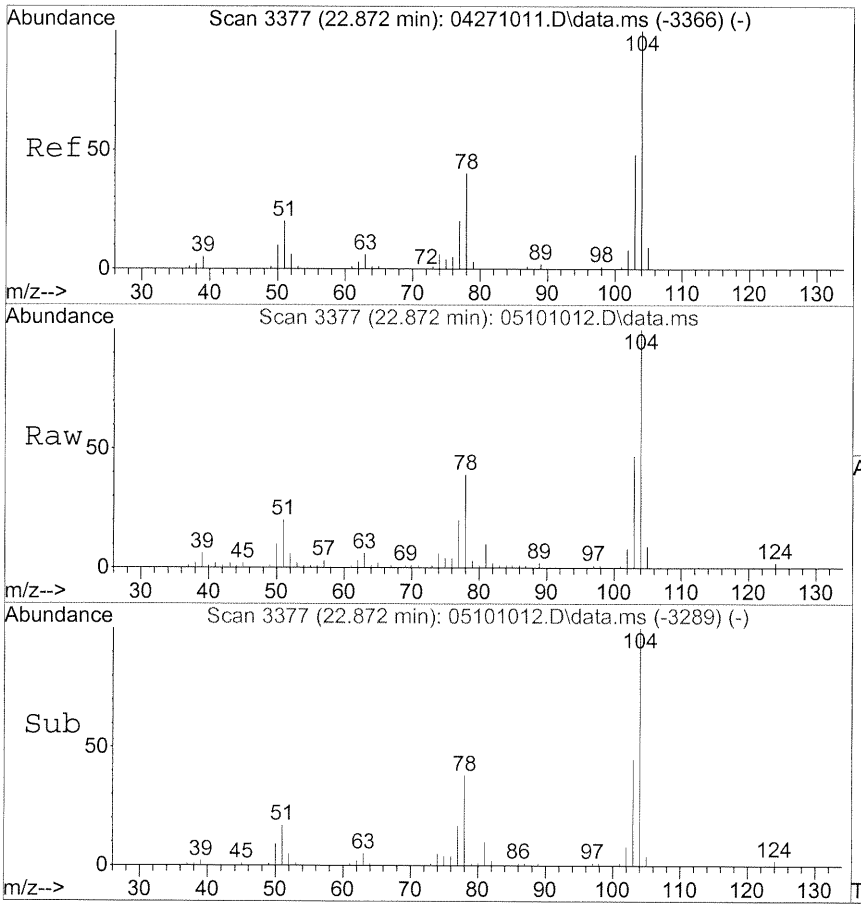


#68
Bromoform
Concen: 0.21 ng
RT: 22.51 min Scan# 3314
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:173 Resp: 5201

Ion	Ratio	Lower	Upper
173	100		
175	43.9	28.5	68.5

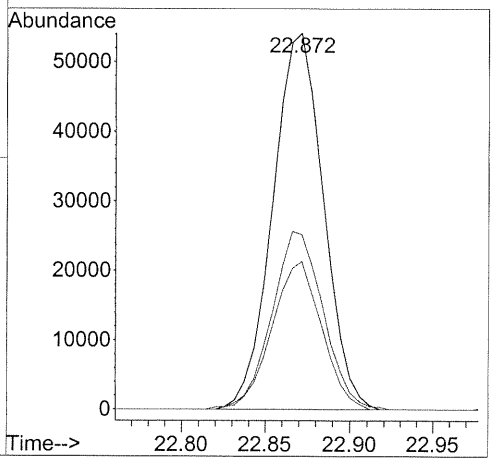


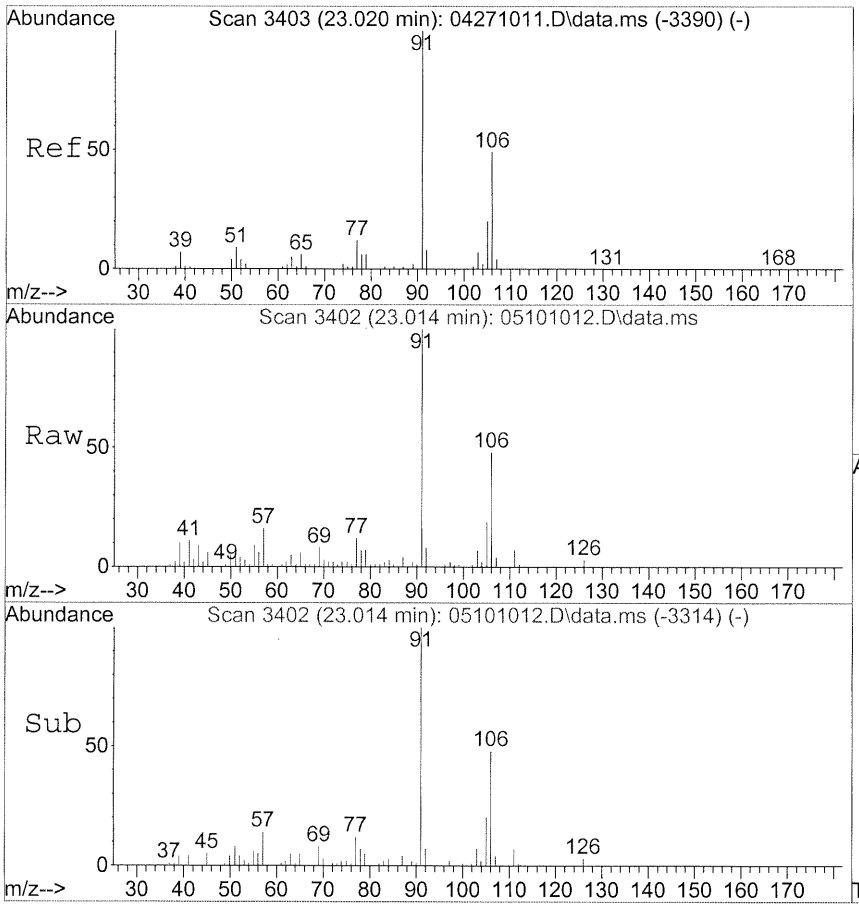


#69
Styrene
Concen: 1.49 ng
RT: 22.87 min Scan# 3377
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:104 Resp: 112615

Ion	Ratio	Lower	Upper
104	100		
78	38.7	26.1	66.1
103	48.1	28.7	68.7

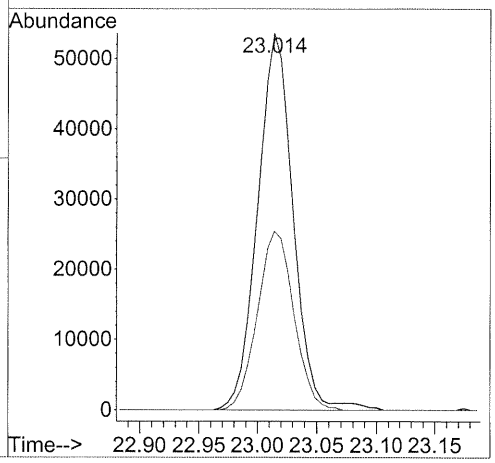


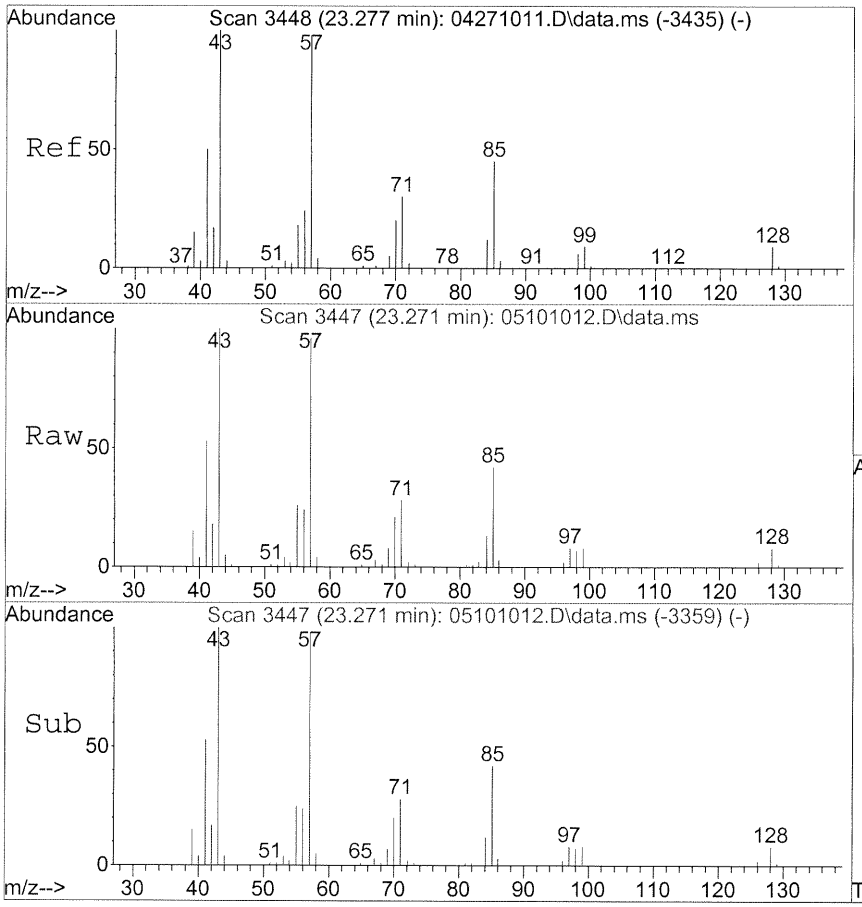


#70
o-Xylene
Concen: 1.15 ng
RT: 23.01 min Scan# 3402
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 91 Resp: 112077

Ion	Ratio	Lower	Upper
91	100		
106	48.9	24.4	64.4

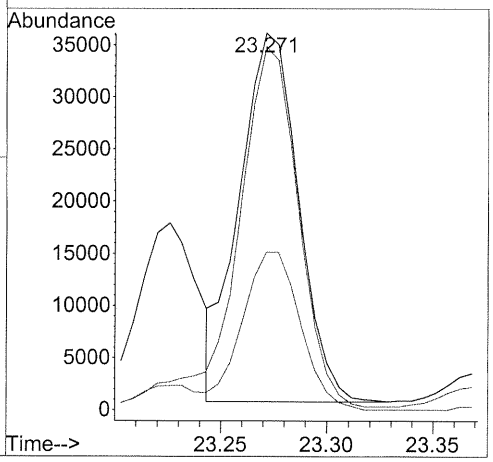


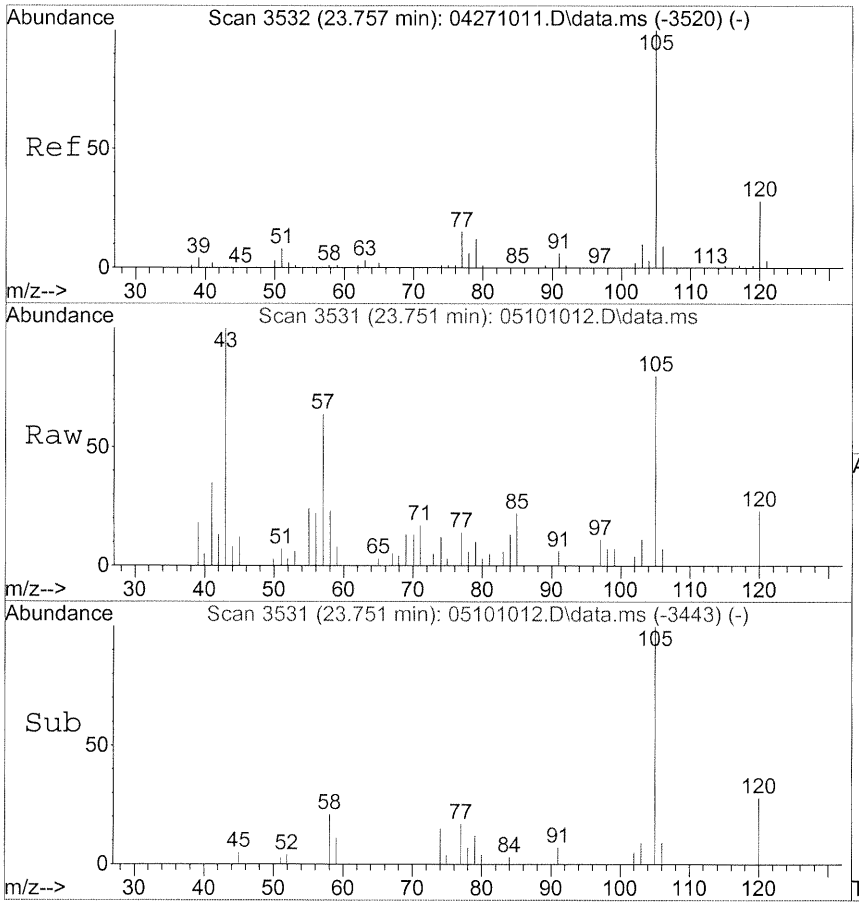


#71
n-Nonane
Concen: 1.62 ng
RT: 23.27 min Scan# 3447
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 43 Resp: 69054

Ion	Ratio	Lower	Upper
43	100		
57	101.2	65.6	105.6
85	42.0	9.9	49.9

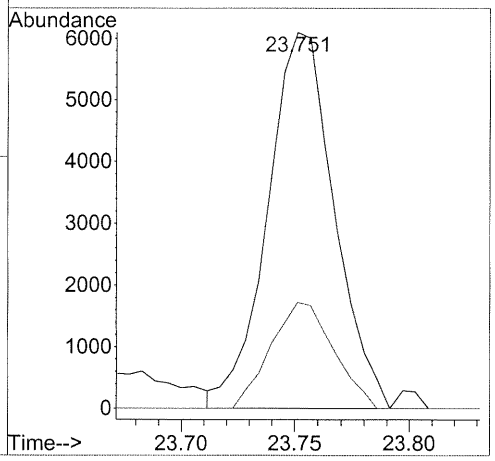


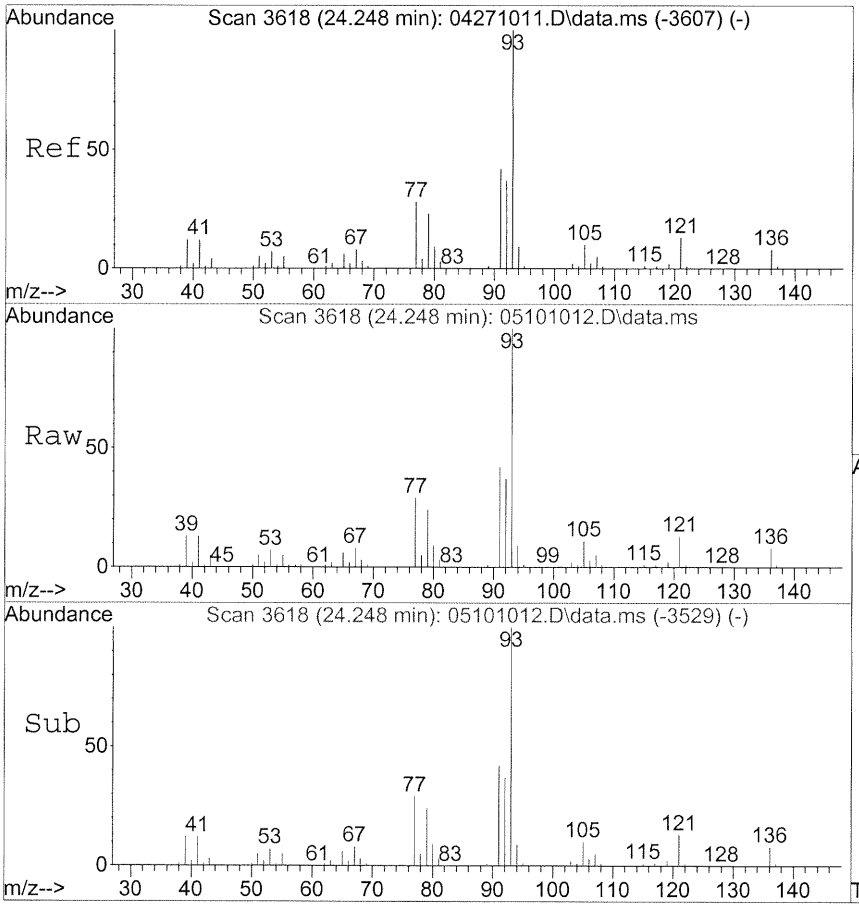


#74
Cumene
Concen: 0.09 ng
RT: 23.75 min Scan# 3531
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:105 Resp: 12230

Ion	Ratio	Lower	Upper
105	100		
120	26.7	5.2	45.2

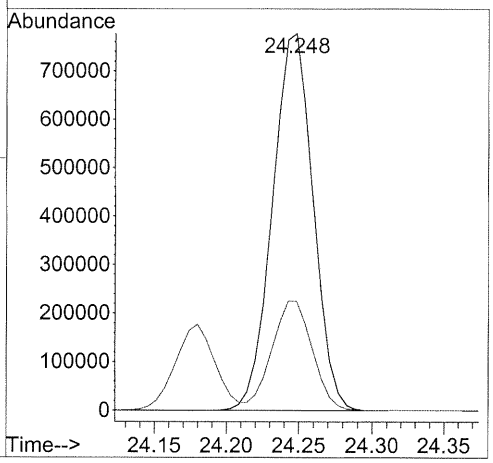


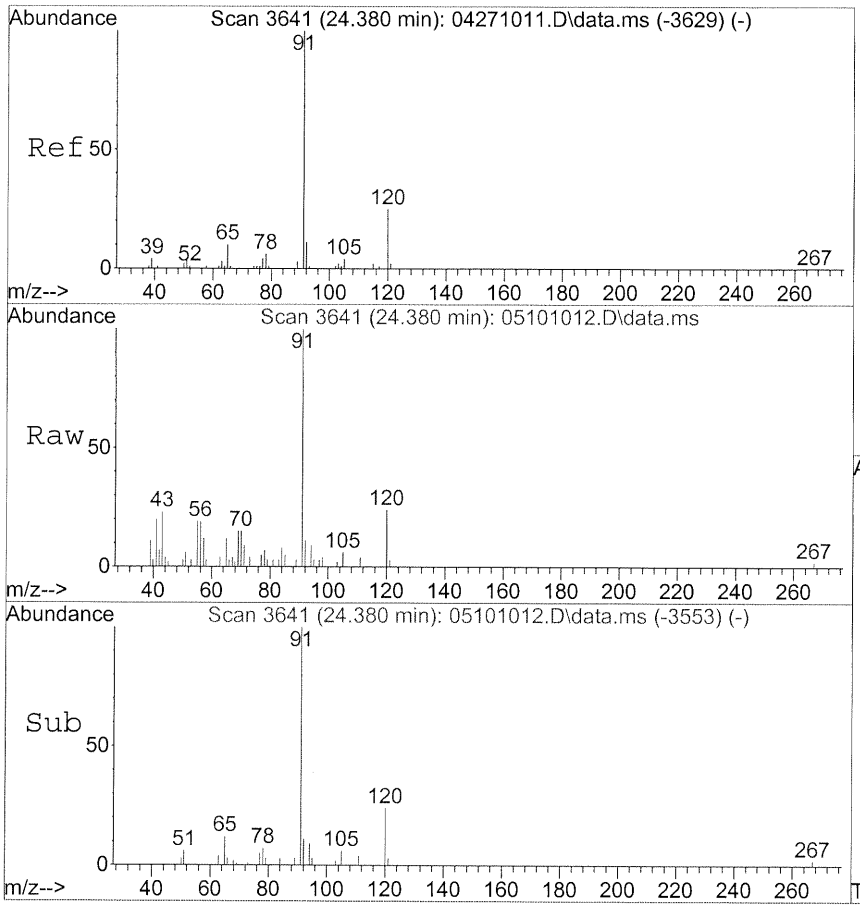


#75
alpha-Pinene
Concen: 24.26 ng
RT: 24.25 min Scan# 3618
Delta R.T. 0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 93 Resp: 1504060

Ion	Ratio	Lower	Upper
93	100		
77	28.6	12.3	52.3

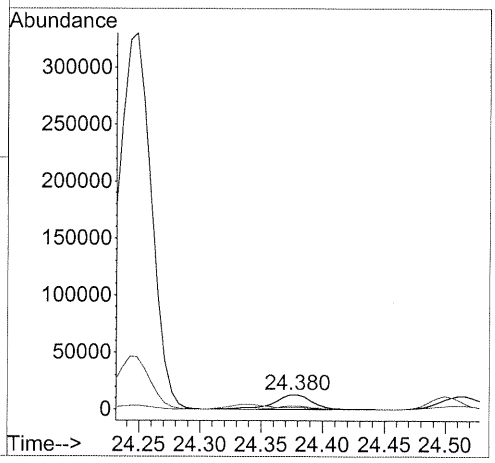


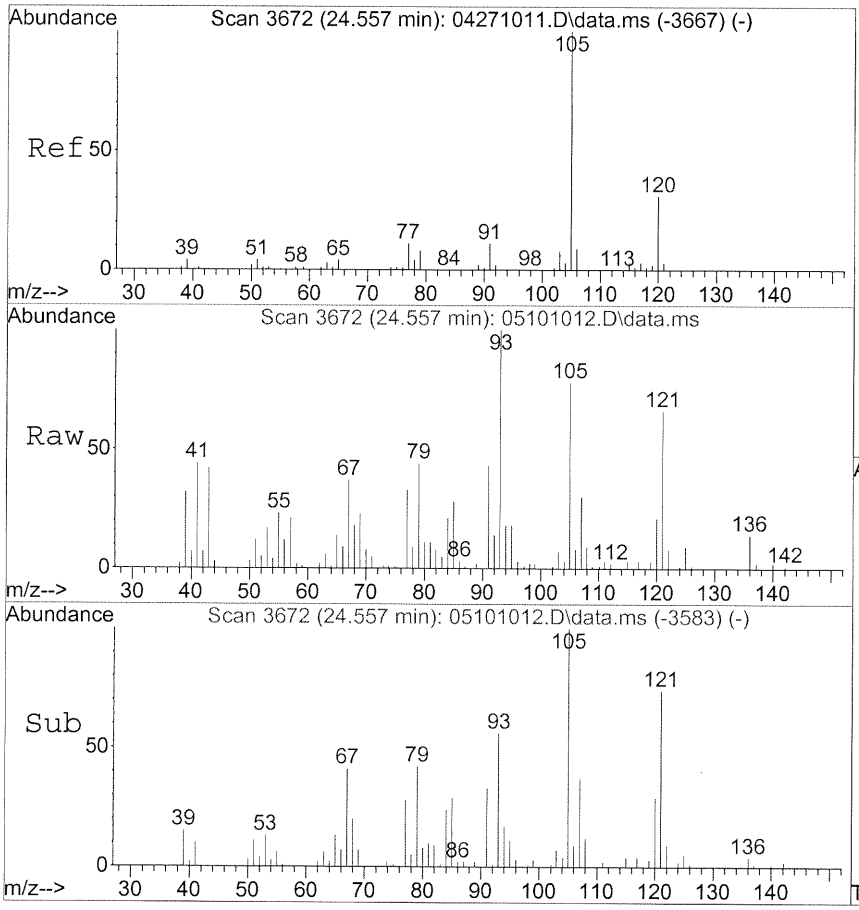


#76
n-Propylbenzene
Concen: 0.18 ng
RT: 24.38 min Scan# 3641
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 91 Resp: 28350

Ion	Ratio	Lower	Upper
91	100		
120	20.5	0.9	40.9
65	0.0	0.0	31.2

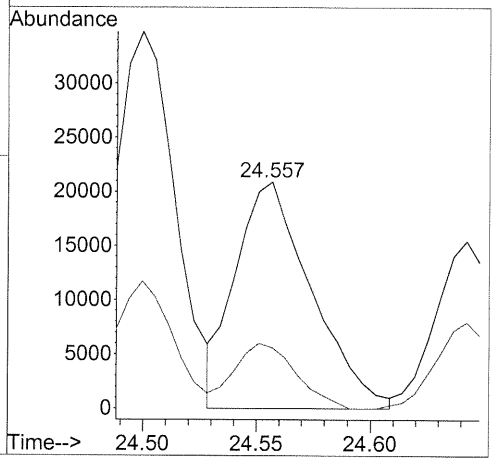


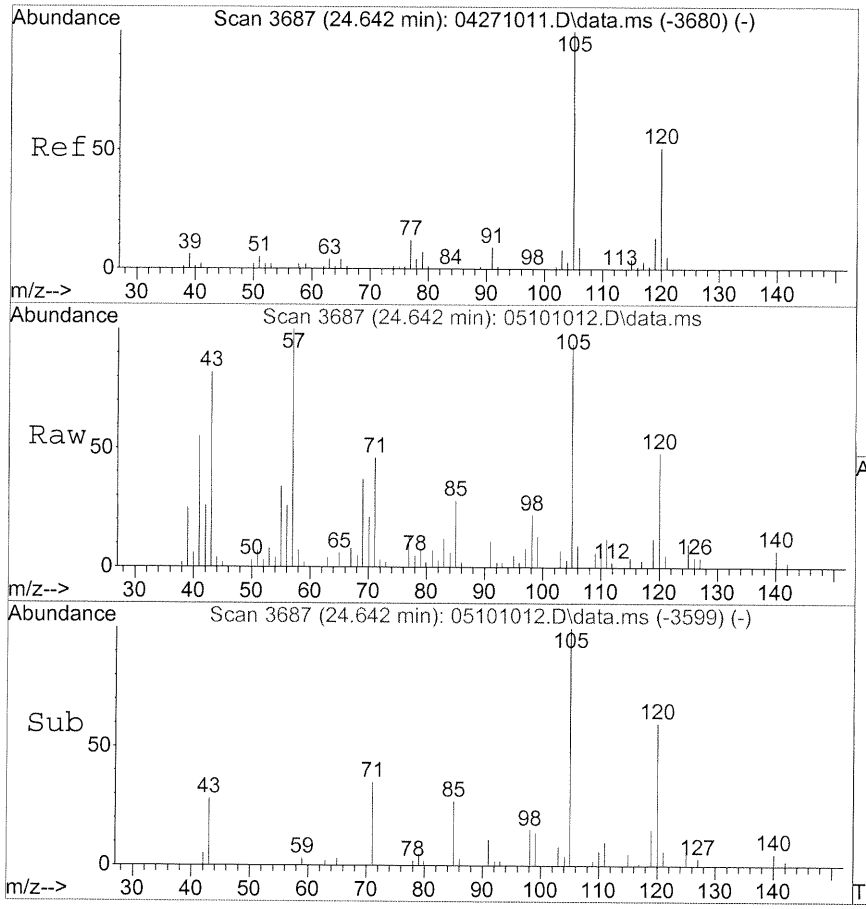


#78
4-Ethyltoluene
Concen: 0.39 ng
RT: 24.56 min Scan# 3672
Delta R.T. 0.006 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:105 Resp: 48490

Ion	Ratio	Lower	Upper
105	100		
120	23.3	8.2	48.2

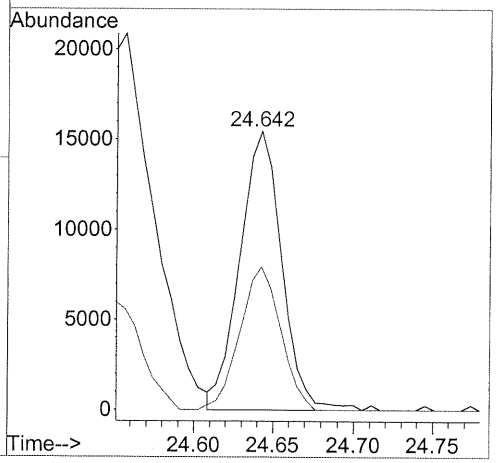


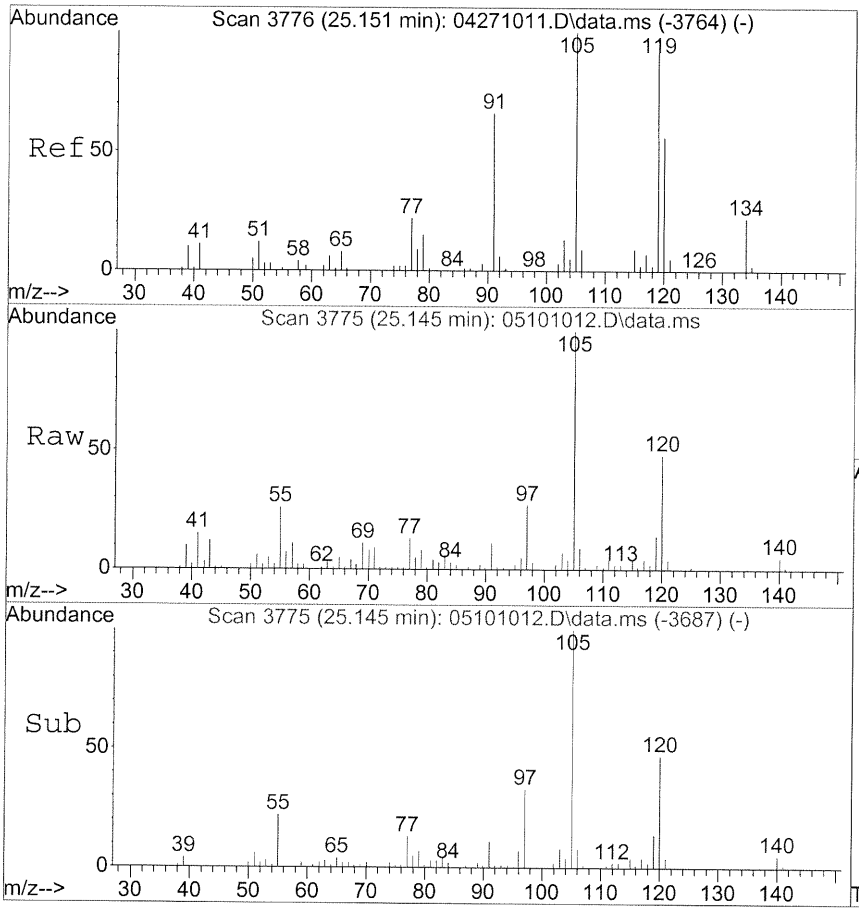


#79
1,3,5-Trimethylbenzene
Concen: 0.28 ng
RT: 24.64 min Scan# 3687
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:105 Resp: 28534

Ion	Ratio	Lower	Upper
105	100		
120	49.8	26.2	66.2

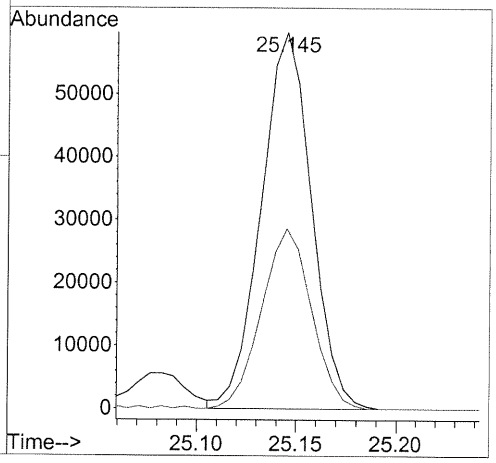


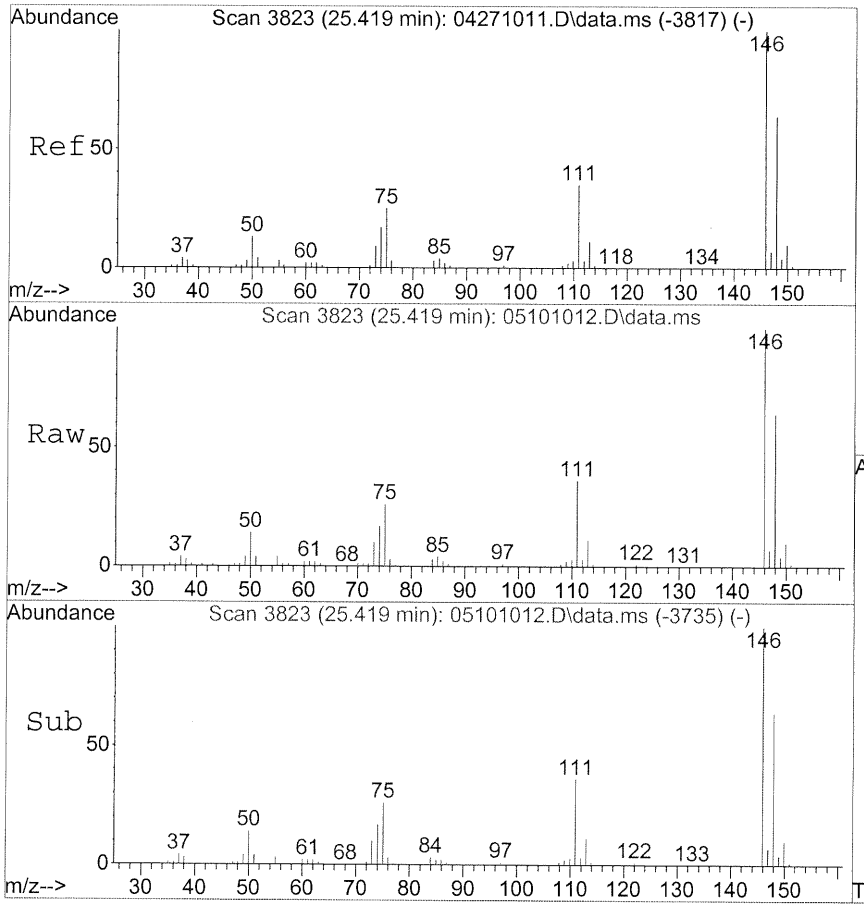


#82
1,2,4-Trimethylbenzene
Concen: 1.01 ng
RT: 25.15 min Scan# 3775
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:105 Resp: 105005

Ion	Ratio	Lower	Upper
105	100		
120	47.4	30.1	70.1

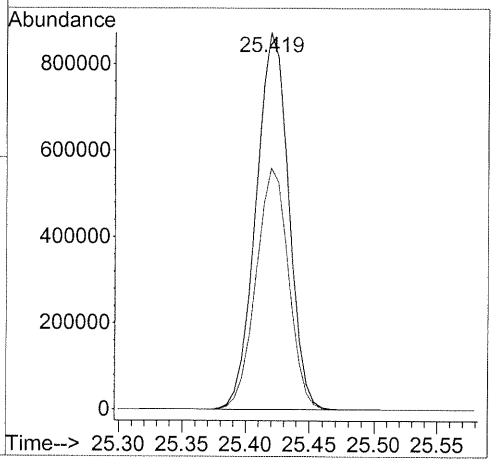


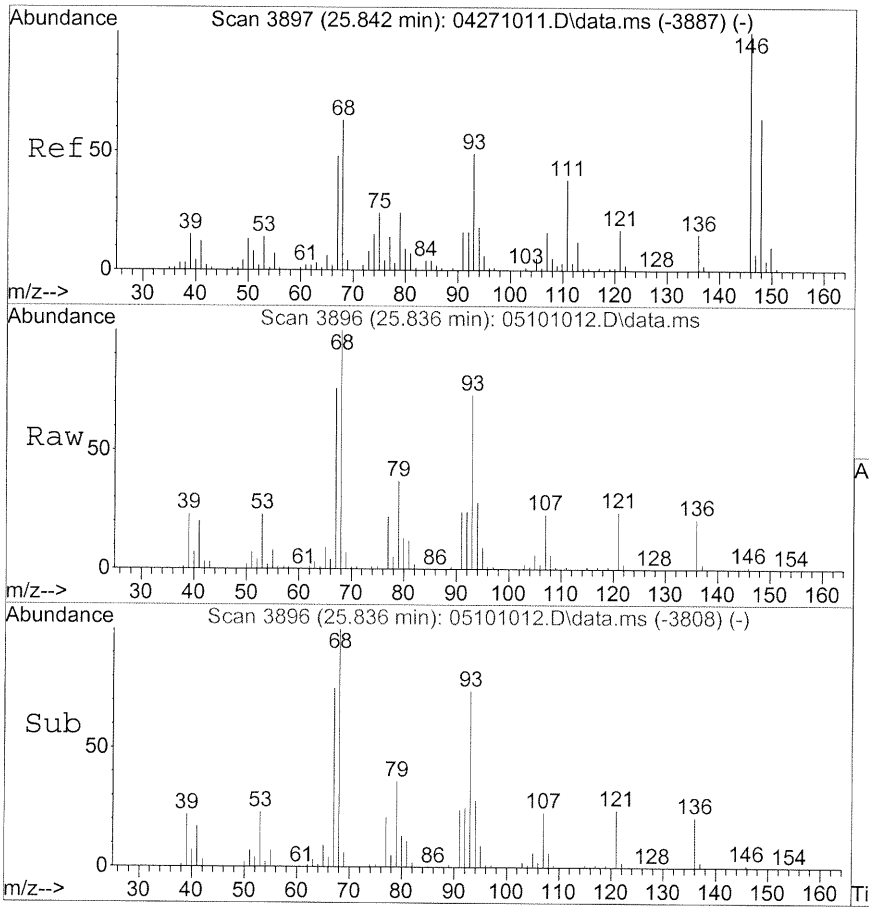


#86
1,4-Dichlorobenzene
Concen: 23.81 ng
RT: 25.42 min Scan# 3823
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:146 Resp: 1566685

Ion	Ratio	Lower	Upper
146	100		
148	64.0	43.8	83.8

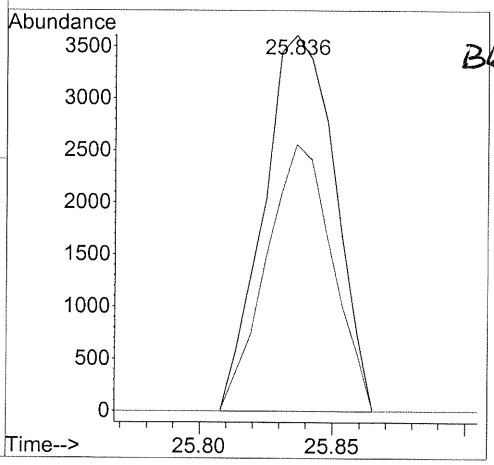




#90
1,2-Dichlorobenzene
Concen: 0.11 ng
RT: 25.84 min Scan# 3896
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

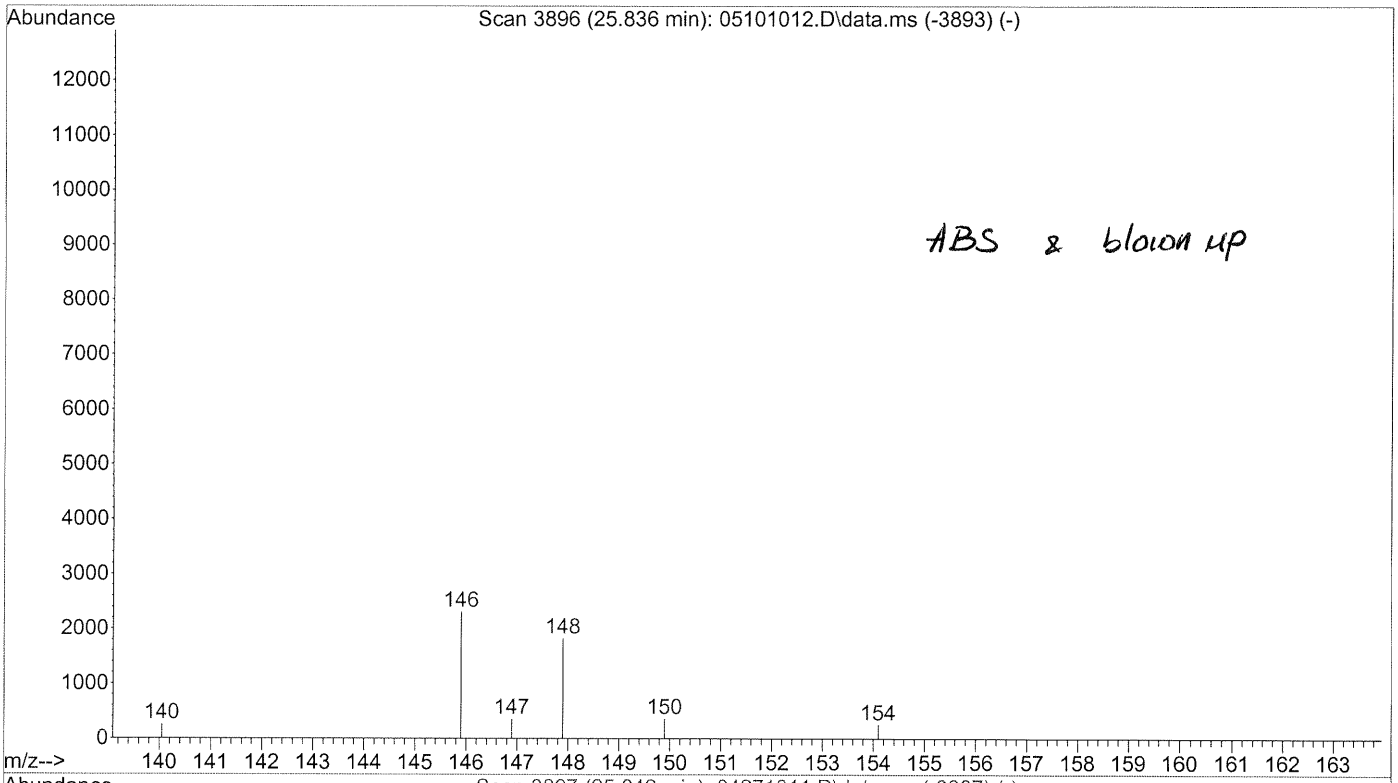
Tgt Ion:146 Resp: 6673

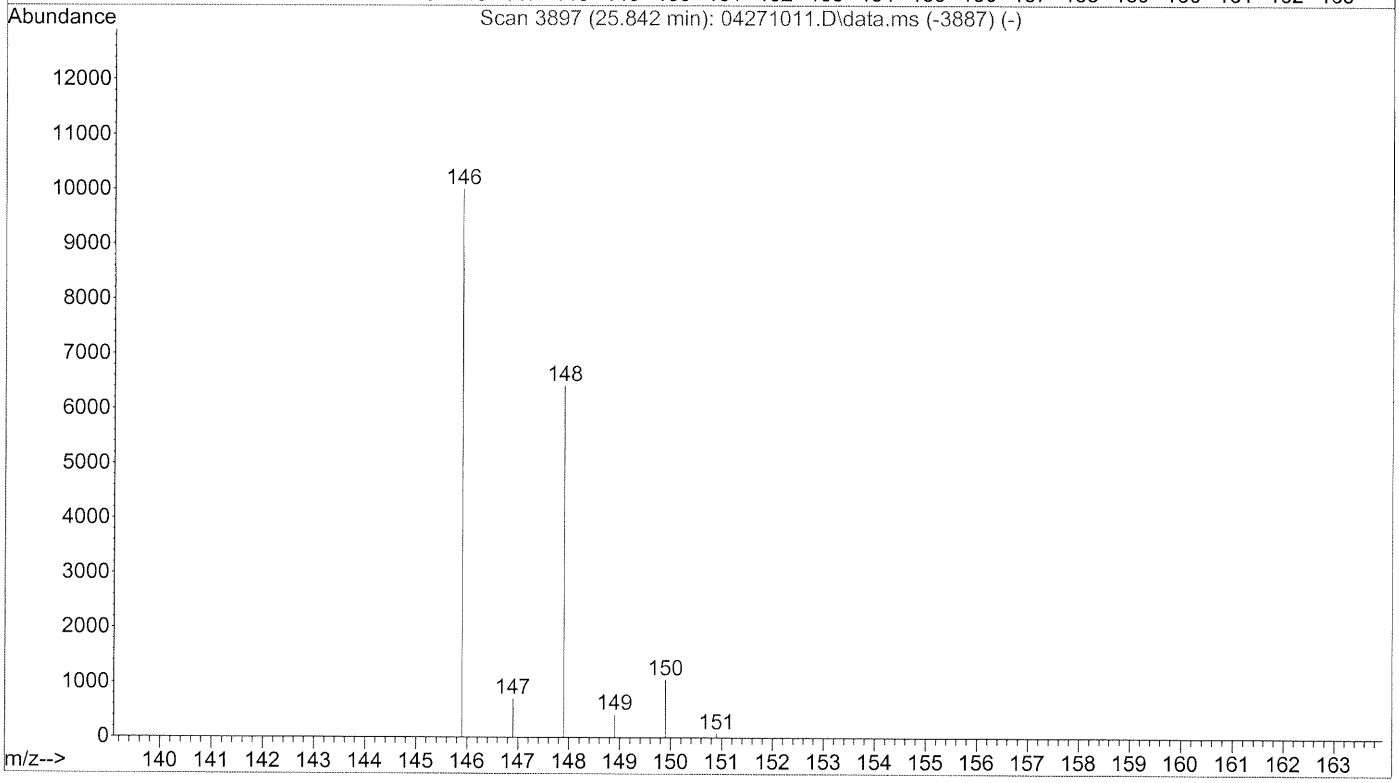
Ion	Ratio	Lower	Upper
146	100		
148	66.0	43.6	83.6

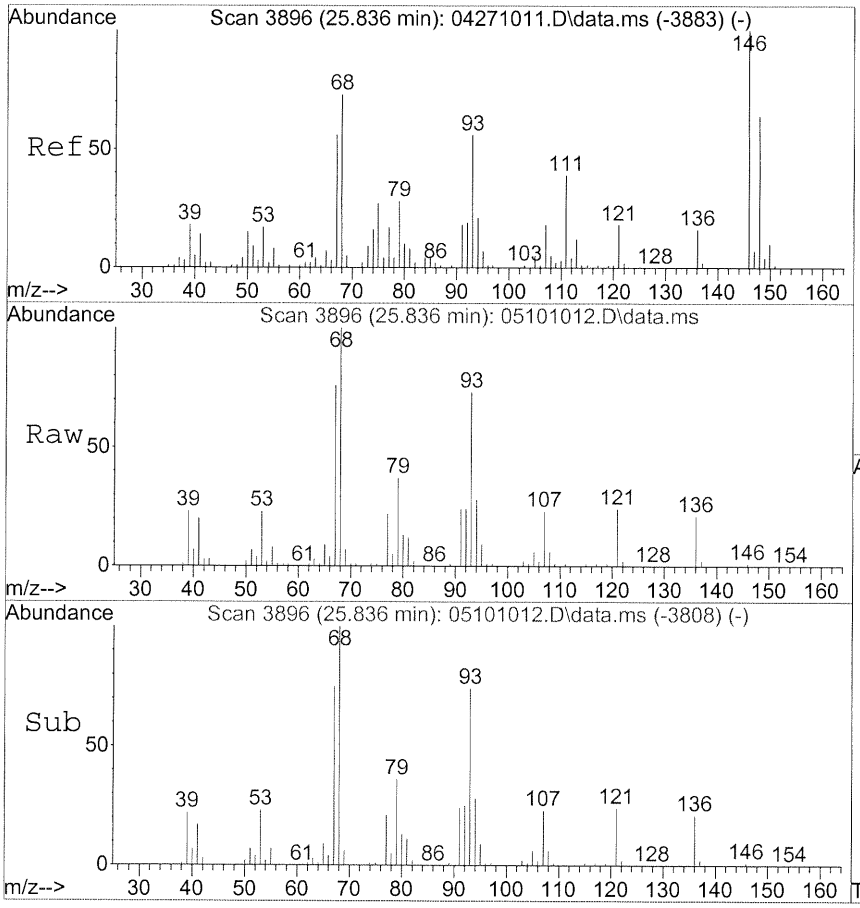


BBS

File :J:\MS09\Data\2010_05\10\05101012.D
Operator : WA
Acquired : 10 May 2010 20:06 using AcqMethod TO15LOW.M
Instrument : MS09
Sample Name: P1001603-001 (1000mL)
Misc Info :
Vial Number: 5



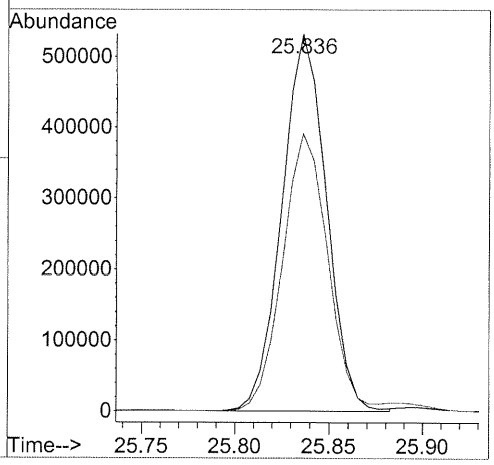


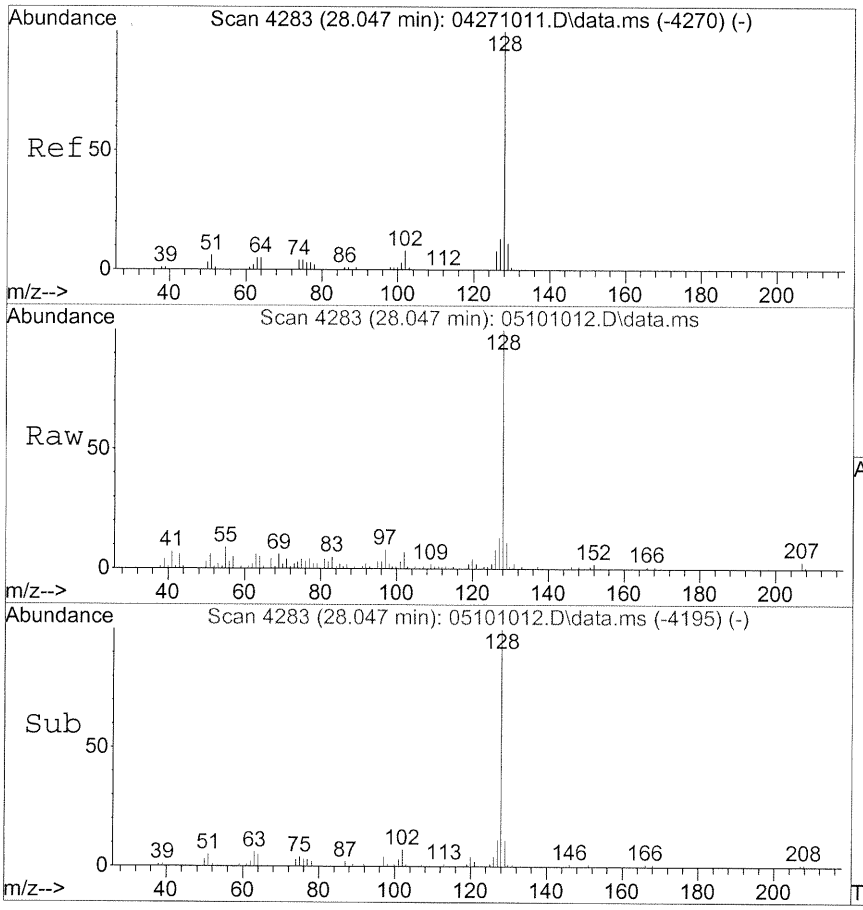


#91
d-Limonene
Concen: 23.96 ng
RT: 25.84 min Scan# 3896
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion: 68 Resp: 865740

Ion	Ratio	Lower	Upper
68	100		
93	77.2	42.0	82.0

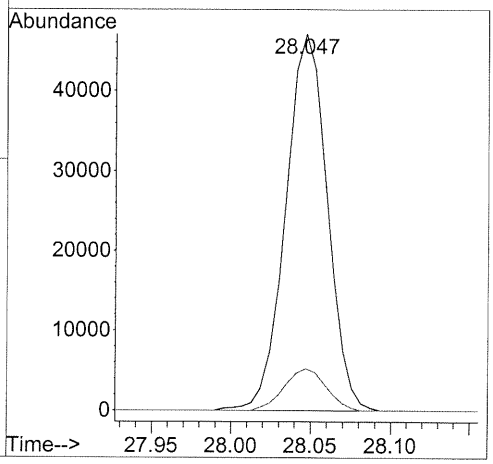




#95
Naphthalene
Concen: 0.64 ng
RT: 28.05 min Scan# 4283
Delta R.T. 0.000 min
Lab File: 05101012.D
Acq: 10 May 2010 20:06

Tgt Ion:128 Resp: 84906

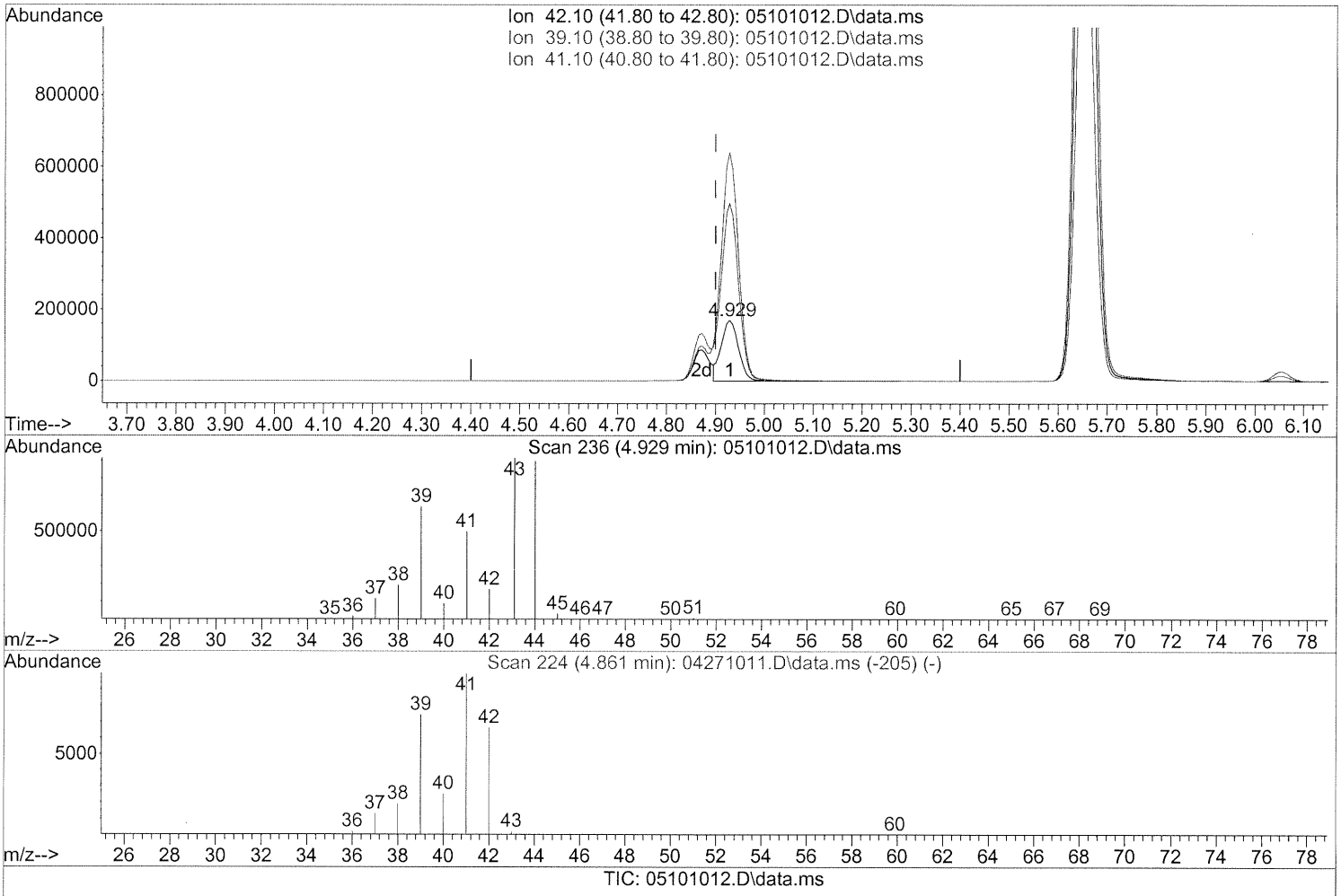
Ion	Ratio	Lower	Upper
128	100		
129	11.1	0.0	31.1



Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



(2) Propene (T)

4.929min (+0.029) 19.28ng

response 425410

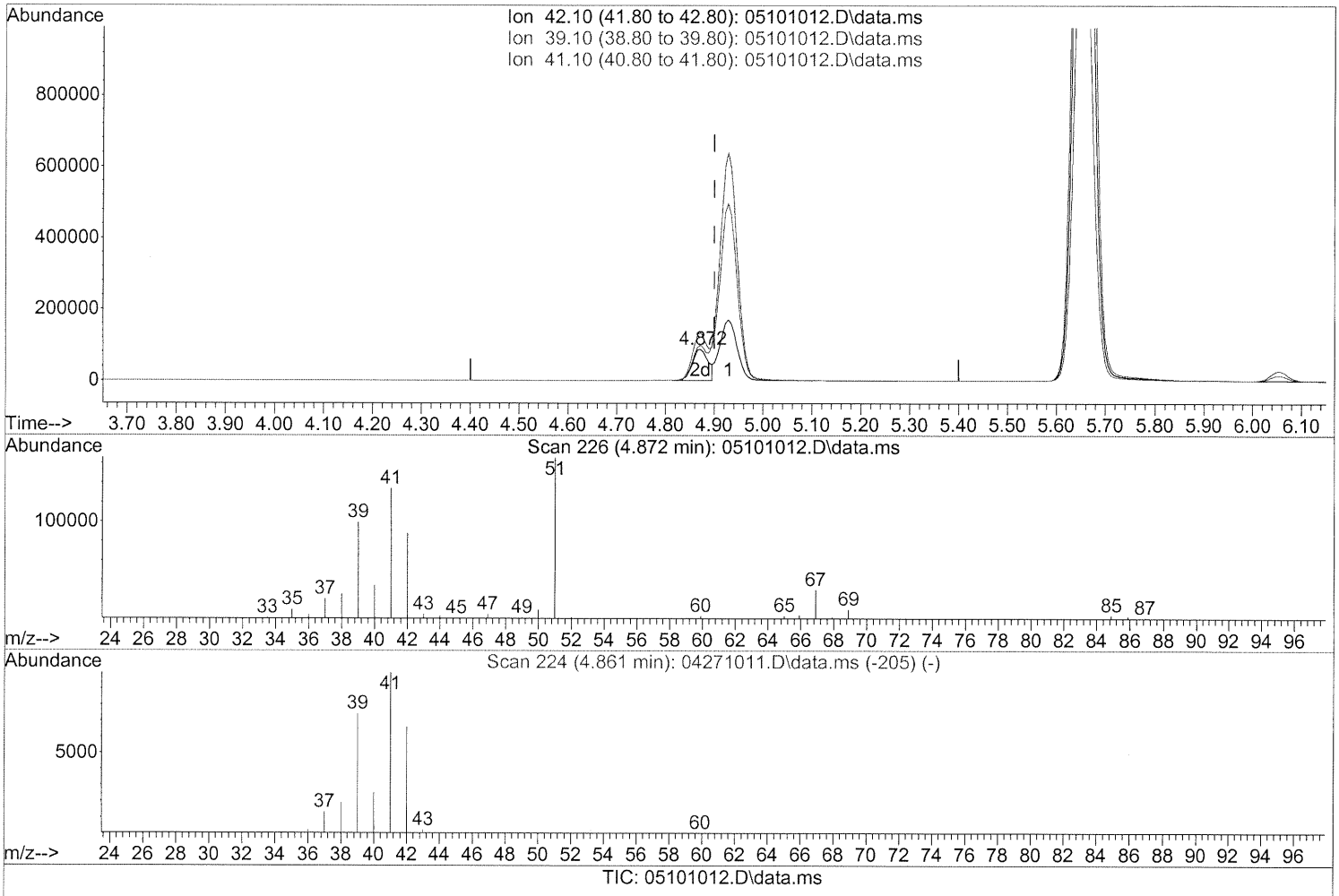
MP

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	378.20#
41.10	153.90	296.14#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



(2) Propene (T)

4.872min (-0.029) 8.88ng m

response 195937

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	821.13#
41.10	153.90	642.97#
0.00	0.00	0.00

MP-7 IC

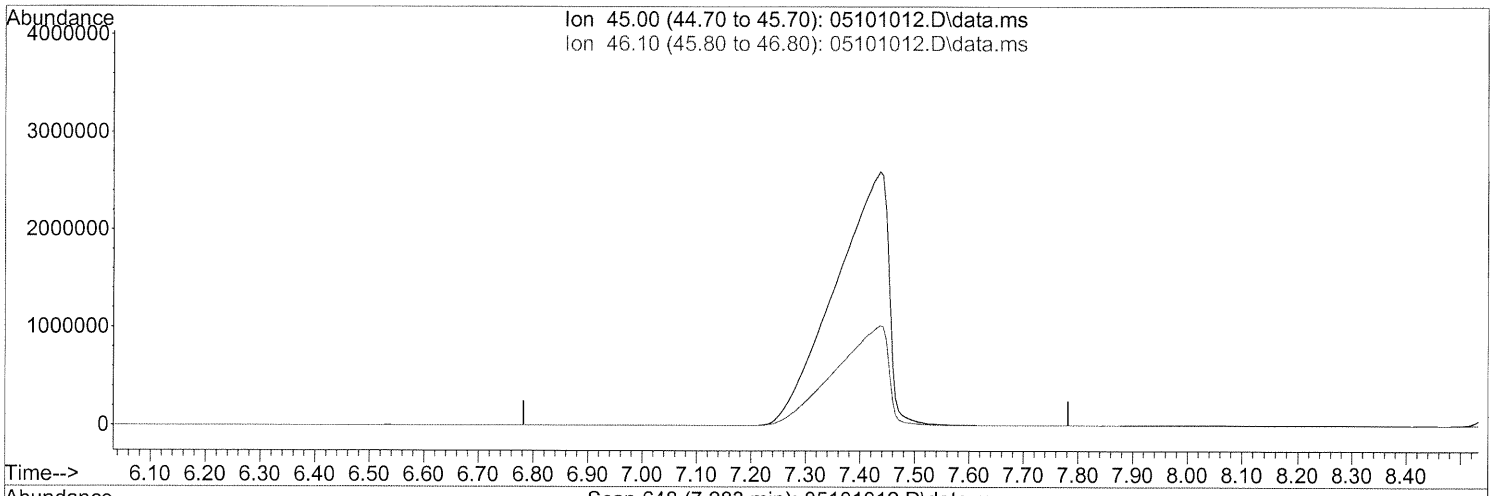
5/16/10

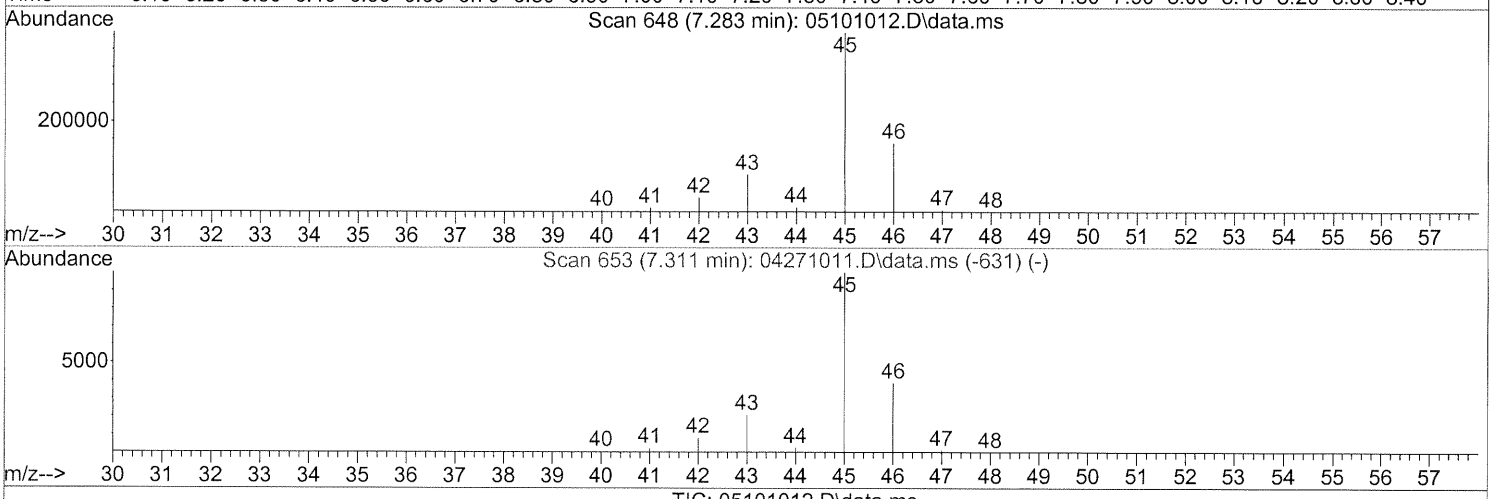
5/18/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration





TIC: 05101012.D\data.ms

(10) Ethanol (T)

7.283min (-7.283) 0.00ng

response 0

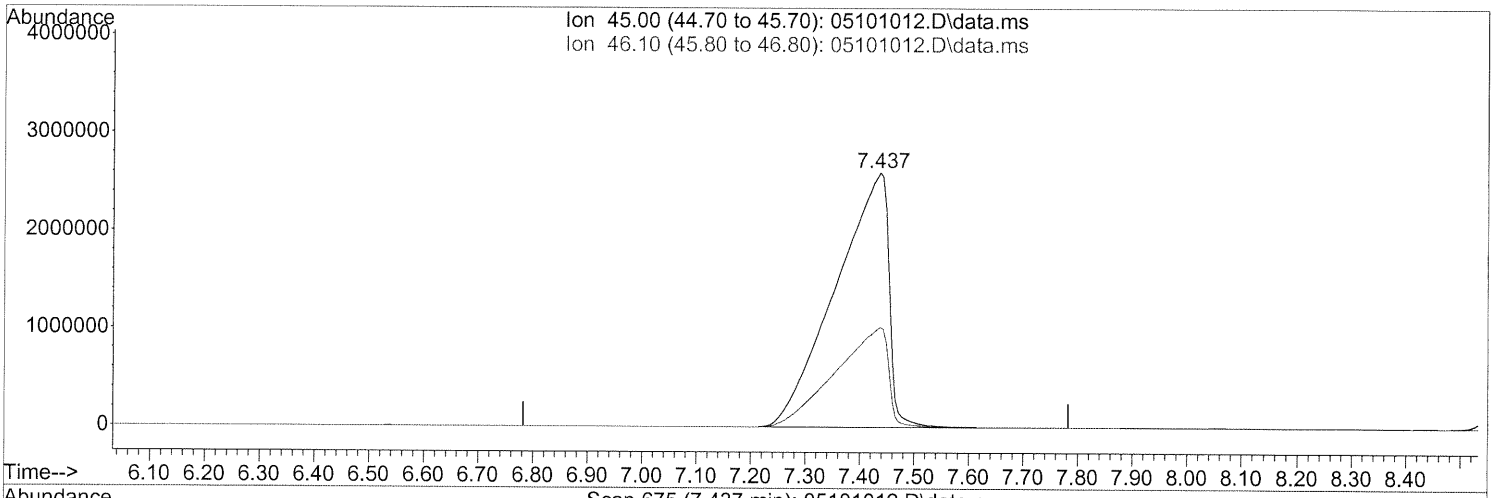
MP

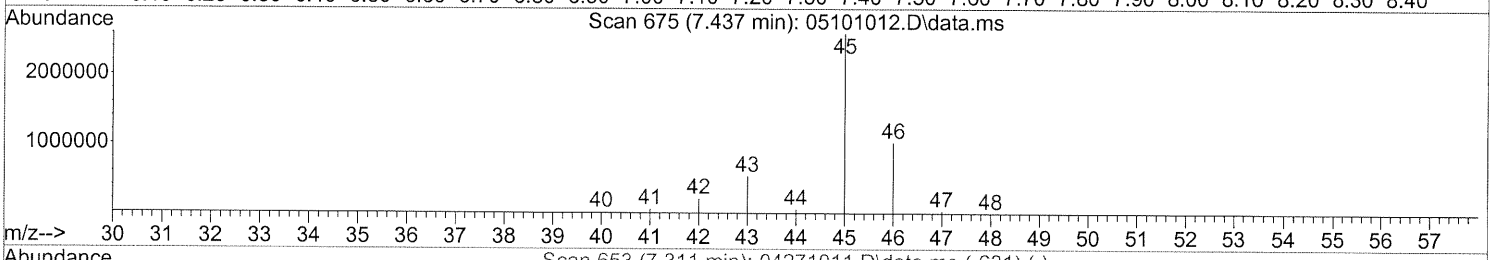
Ion	Exp%	Act%
45.00	100	0.00
46.10	38.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

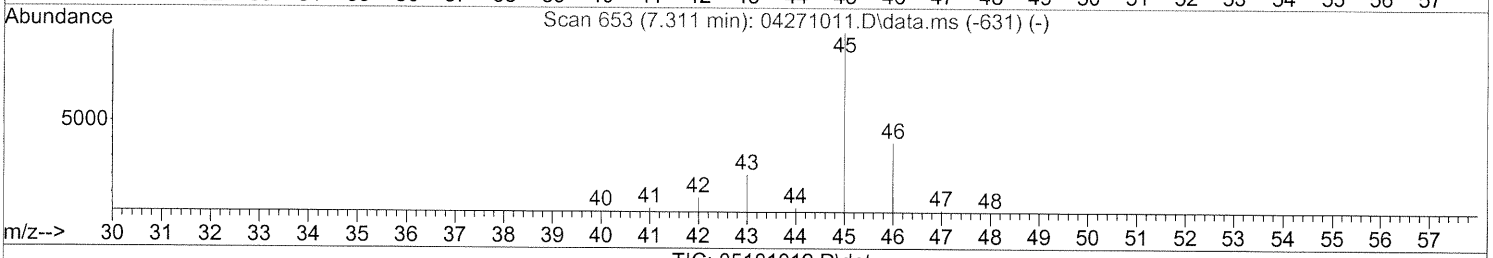
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101012.D\data.ms

(10) Ethanol (T)

7.437min (+0.154) 1316.25ng m

response 17686433

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

MP—7 IC

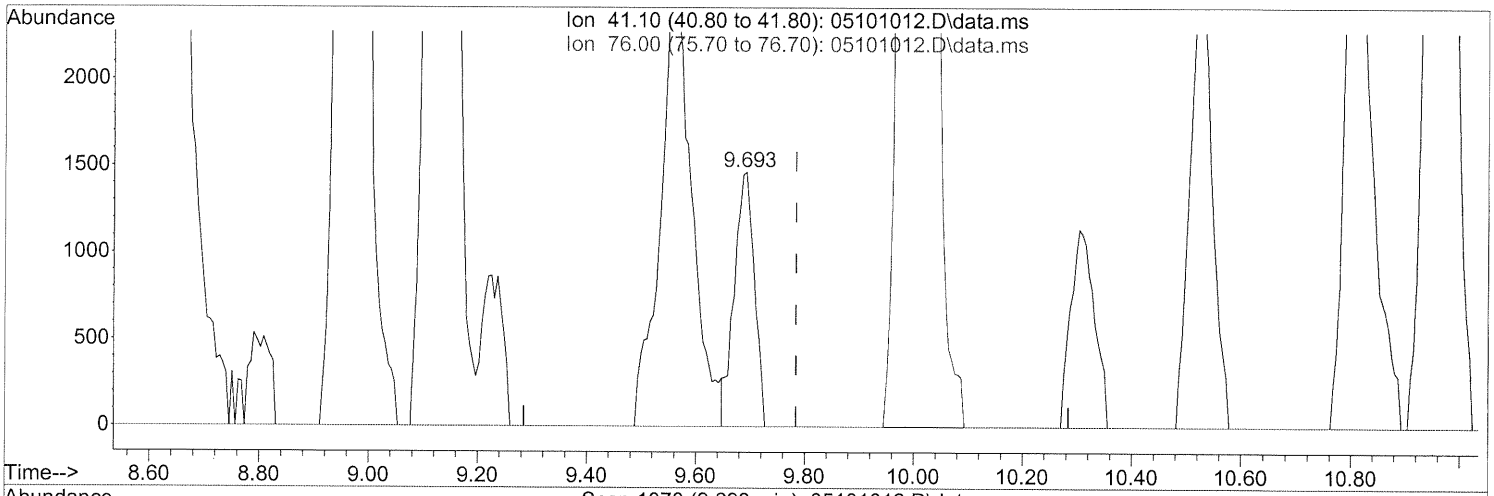
5/16/10

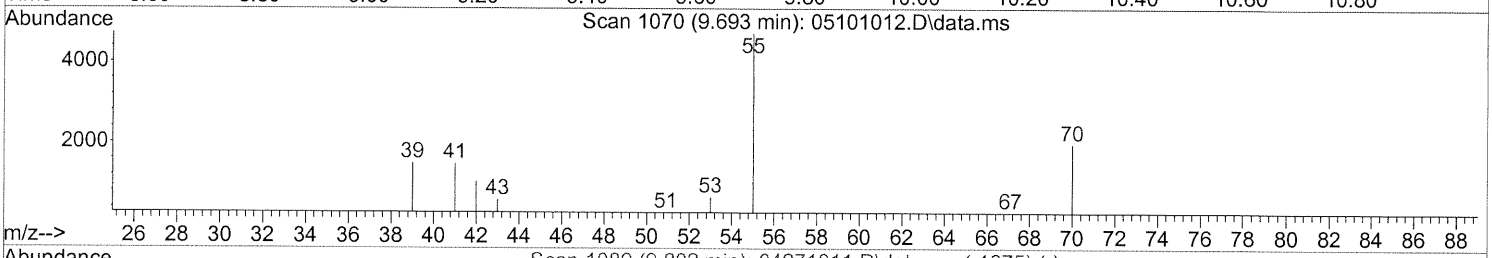
5/19/10

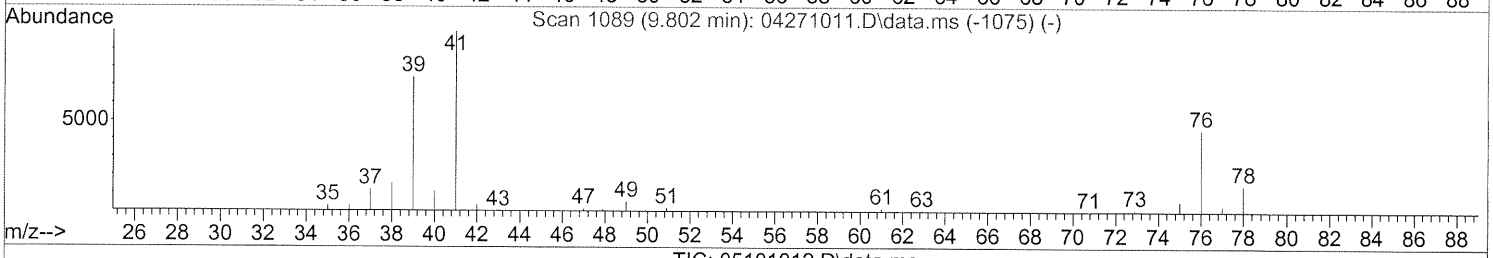
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101012.D\data.ms

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

9.693min (-0.091) 0.14ng

response 3738

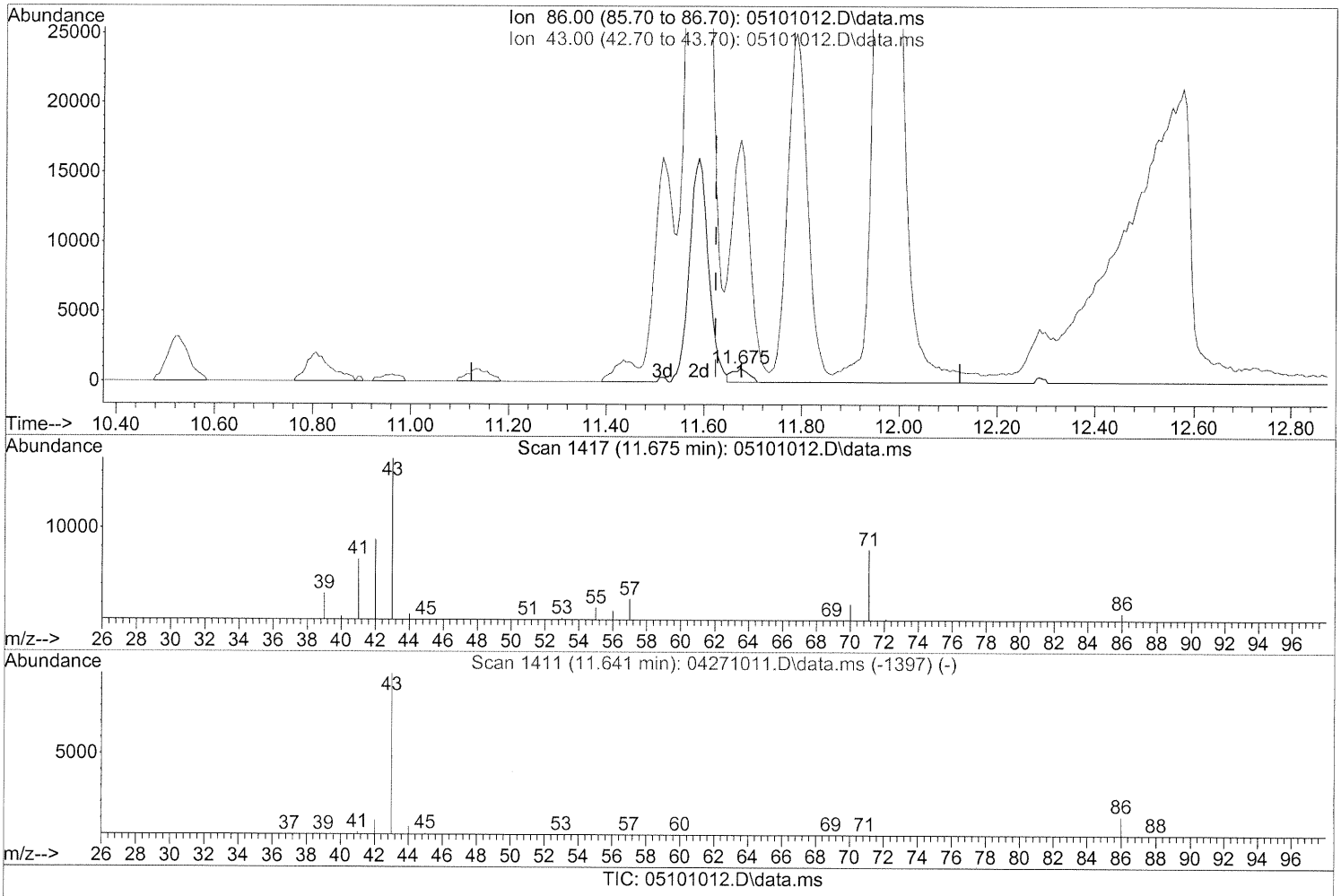
Ion	Exp%	Act%
41.10	100	100
76.00	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101012.D\data.ms

(26) Vinyl Acetate (T)

11.675min (+0.051) 0.38ng

response 2267

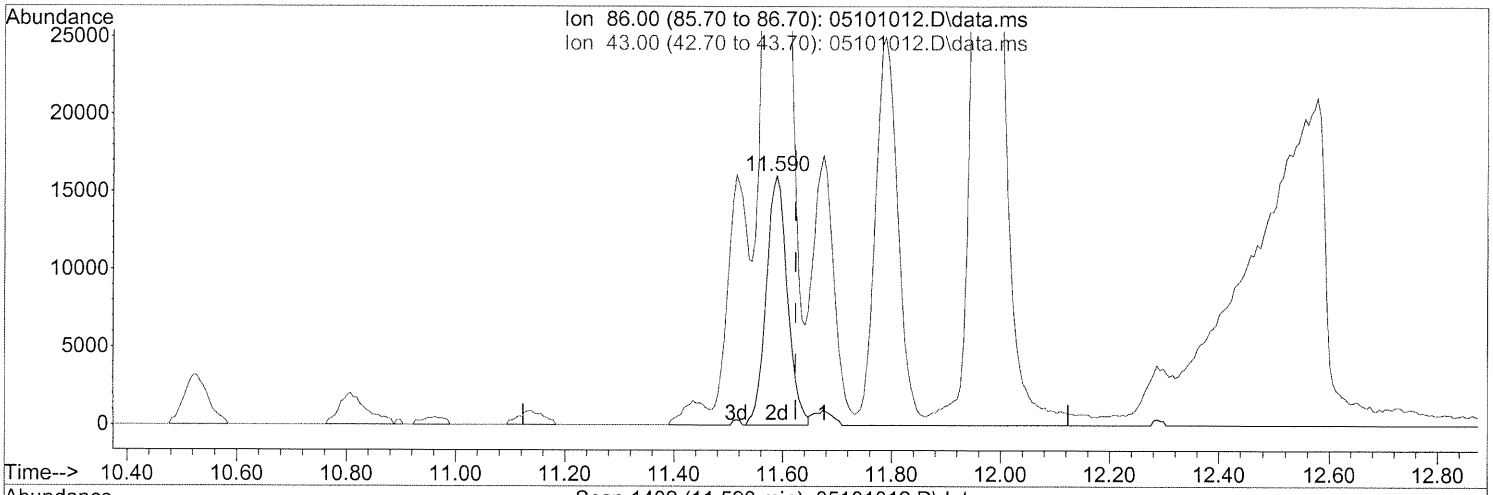
MP

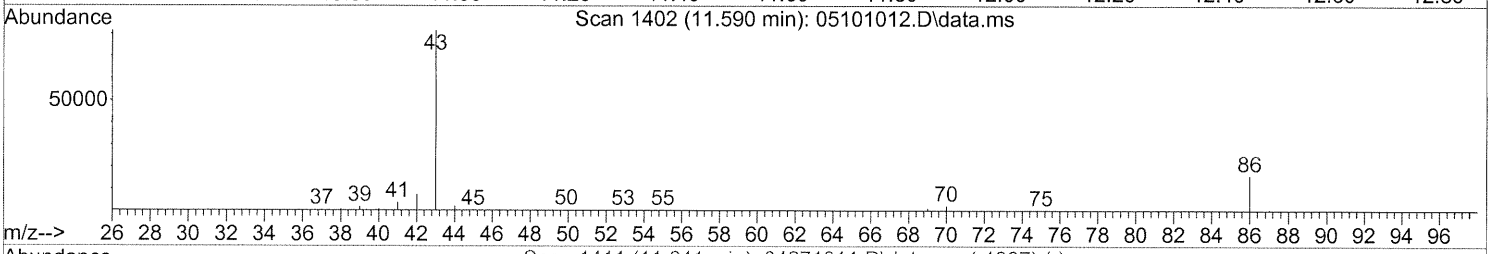
Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	2008.25#
0.00	0.00	0.00
0.00	0.00	0.00

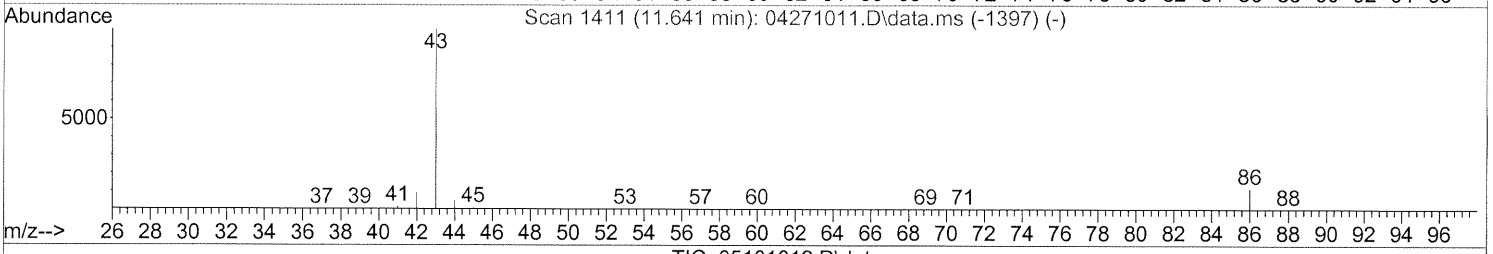
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101012.D\data.ms

(26) Vinyl Acetate (T)

11.590min (-0.034) 7.24ng m

response 43247

Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	105.27#
0.00	0.00	0.00
0.00	0.00	0.00

MP-71C

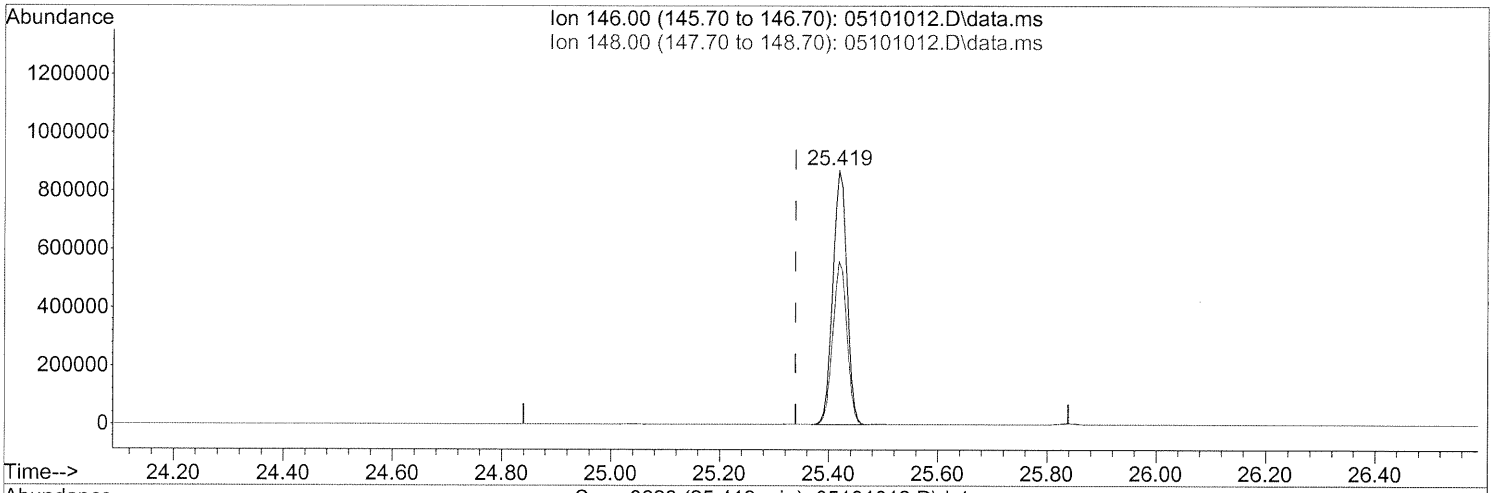
5/16/10

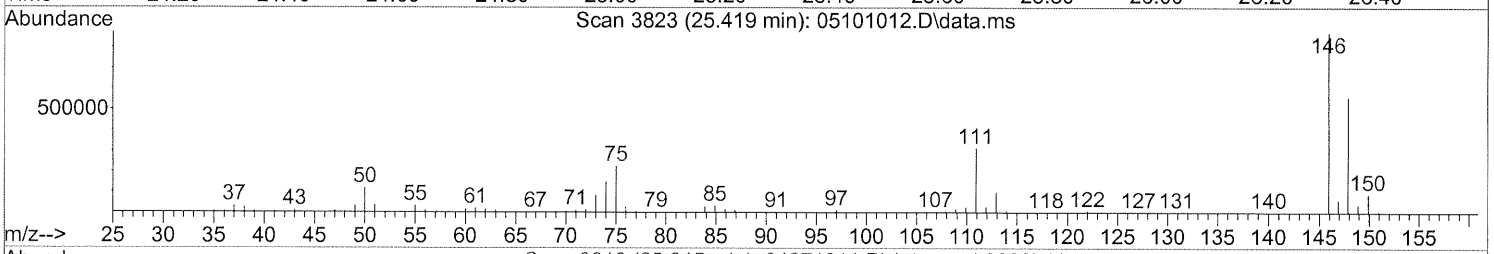
5/19/10

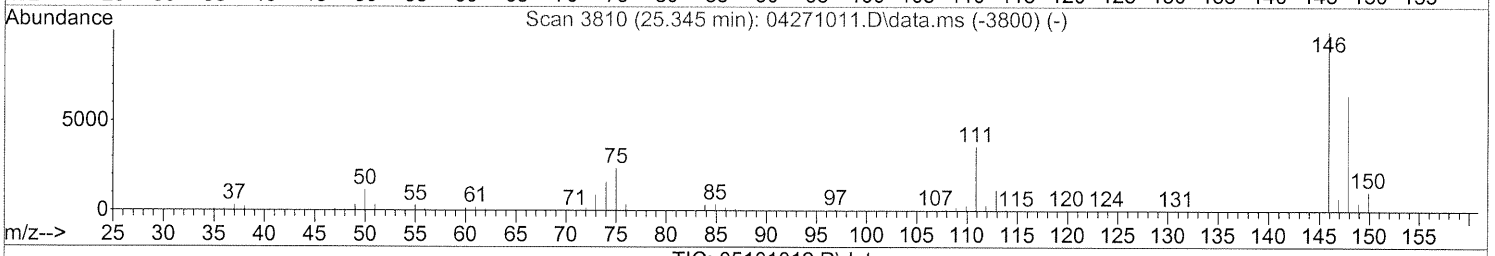
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101012.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.419min (+0.080) 24.69ng

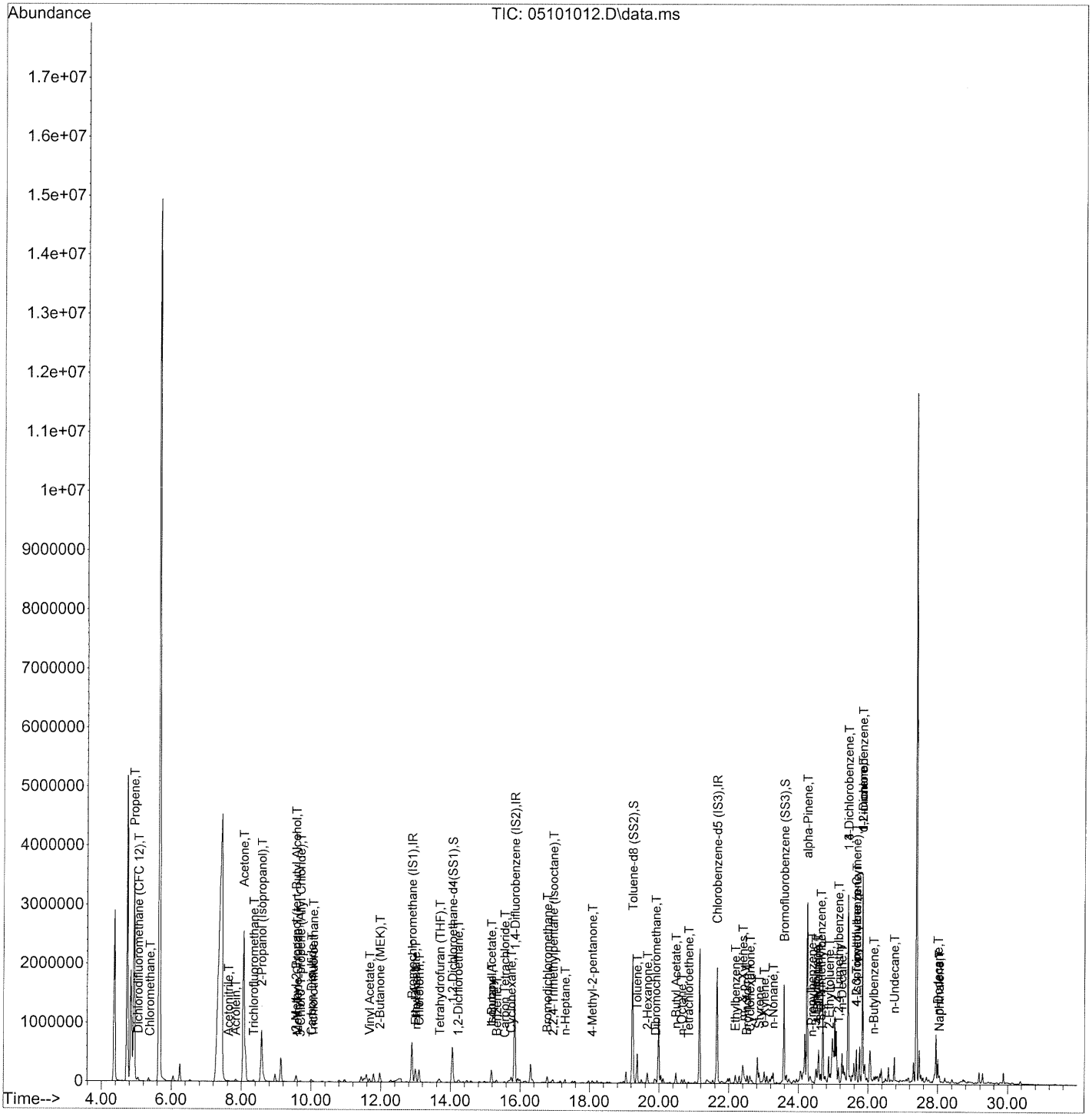
response 1566685

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	64.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	389397	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.85	114	1839453	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	778631	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	580168	24.686	ng		0.00
Spiked Amount 25.000			Recovery =	98.76%			
57) Toluene-d8 (SS2)	19.24	98	1931653	24.597	ng		0.00
Spiked Amount 25.000			Recovery =	98.40%			
73) Bromofluorobenzene (SS3)	23.59	174	670519	24.375	ng		0.00
Spiked Amount 25.000			Recovery =	97.52%			
Target Compounds							Qvalue
2) Propene	4.93	42	425410	19.284	ng	#	1
3) Dichlorodifluoromethan...	5.05	85	60702	1.170	ng		99
4) Chloromethane	5.38	50	10038	0.319	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	1528	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.13	54	1592	N.D.			
8) Bromomethane	6.63	94	761	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	0.00	45	0	N.D.			
11) Acetonitrile	7.63	41	17224	0.529	ng		97
12) Acrolein	7.84	56	43171	3.258	ng		98
13) Acetone	8.06	58	1675046	97.554	ng	#	83
14) Trichlorofluoromethane	8.35	101	29985	0.635	ng		100
15) 2-Propanol (Isopropanol)	8.58	45	1851288	37.006	ng		99
16) Acrylonitrile	8.85	53	2427	N.D.			
17) 1,1-Dichloroethene	9.39	96	95	N.D.			
18) 2-Methyl-2-Propanol (t...	9.56	59	46951	0.795	ng	#	1
19) Methylene Chloride	9.60	84	4887	0.189	ng	#	76
20) 3-Chloro-1-propene (Al...	9.69	41	3738	0.143	ng	#	42
21) Trichlorotrifluoroethane	10.06	151	6655	0.281	ng	#	77
22) Carbon Disulfide	10.01	76	78837	0.945	ng		99
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	11.50	73	1084	N.D.			
26) Vinyl Acetate	11.68	86	2267	0.379	ng	#	1
27) 2-Butanone (MEK)	11.97	72	75551	4.791	ng	#	70
28) cis-1,2-Dichloroethene	12.57	61	586	N.D.			
29) Diisopropyl Ether	12.99	87	1252	N.D.			
30) Ethyl Acetate	12.99	61	48229	5.758	ng		93
31) n-Hexane	13.01	57	37194	0.932	ng	#	97

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.10	83	230141	5.424 ng		98
34) Tetrahydrofuran (THF)	13.69	72	8406	0.549 ng	#	13
35) Ethyl tert-Butyl Ether	13.82	87	281	N.D.		
36) 1,2-Dichloroethane	14.22	62	35394	1.112 ng		100
38) 1,1,1-Trichloroethane	14.63	97	468	N.D.		
39) Isopropyl Acetate	15.17	61	2327	0.165 ng	#	1
40) 1-Butanol	15.18	56	177895	8.019 ng	#	74
41) Benzene	15.33	78	52891	0.505 ng		98
42) Carbon Tetrachloride	15.55	117	11643	0.362 ng		97
43) Cyclohexane	15.75	84	49605	1.272 ng	#	81
44) tert-Amyl Methyl Ether	16.20	73	5577	N.D.		
45) 1,2-Dichloropropane	16.53	63	1401	N.D.		
46) Bromodichloromethane	16.78	83	85491	2.719 ng		100
47) Trichloroethene	16.85	130	751	N.D.		
48) 1,4-Dioxane	16.83	88	1666	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	59839	0.622 ng		94
50) Methyl Methacrylate	17.11	100	798	N.D.		
51) n-Heptane	17.30	71	19672	0.790 ng		89
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	14675	0.740 ng	#	73
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	475771	4.296 ng		98
59) 2-Hexanone	19.67	43	64778	1.381 ng		87
60) Dibromochloromethane	19.91	129	37432	1.414 ng		98
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	153162	2.862 ng		94
63) n-Octane	20.65	57	11301	0.569 ng	#	85
64) Tetrachloroethene	20.85	166	9010	0.260 ng		99
65) Chlorobenzene	21.72	112	2405	N.D.		
66) Ethylbenzene	22.19	91	133199	1.097 ng		96
67) m- & p-Xylenes	22.40	91	282896	2.949 ng		93
68) Bromoform	22.51	173	5201	0.209 ng		93
69) Styrene	22.87	104	112615	1.492 ng		94
70) o-Xylene	23.01	91	112077	1.146 ng		93
71) n-Nonane	23.27	43	69054	1.619 ng		82
72) 1,1,2,2-Tetrachloroethane	23.01	83	2576	N.D.		
74) Cumene	23.75	105	12230	N.D.		
75) alpha-Pinene	24.25	93	1504060	24.258 ng		93
76) n-Propylbenzene	24.38	91	28350	0.183 ng	#	89
77) 3-Ethyltoluene	24.50	105	67003	0.548 ng		97
78) 4-Ethyltoluene	24.56	105	48490	0.393 ng		91
79) 1,3,5-Trimethylbenzene	24.64	105	28534	0.284 ng		95

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101012.D
Acq On : 10 May 2010 20:06
Operator : WA
Sample : P1001603-001 (1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

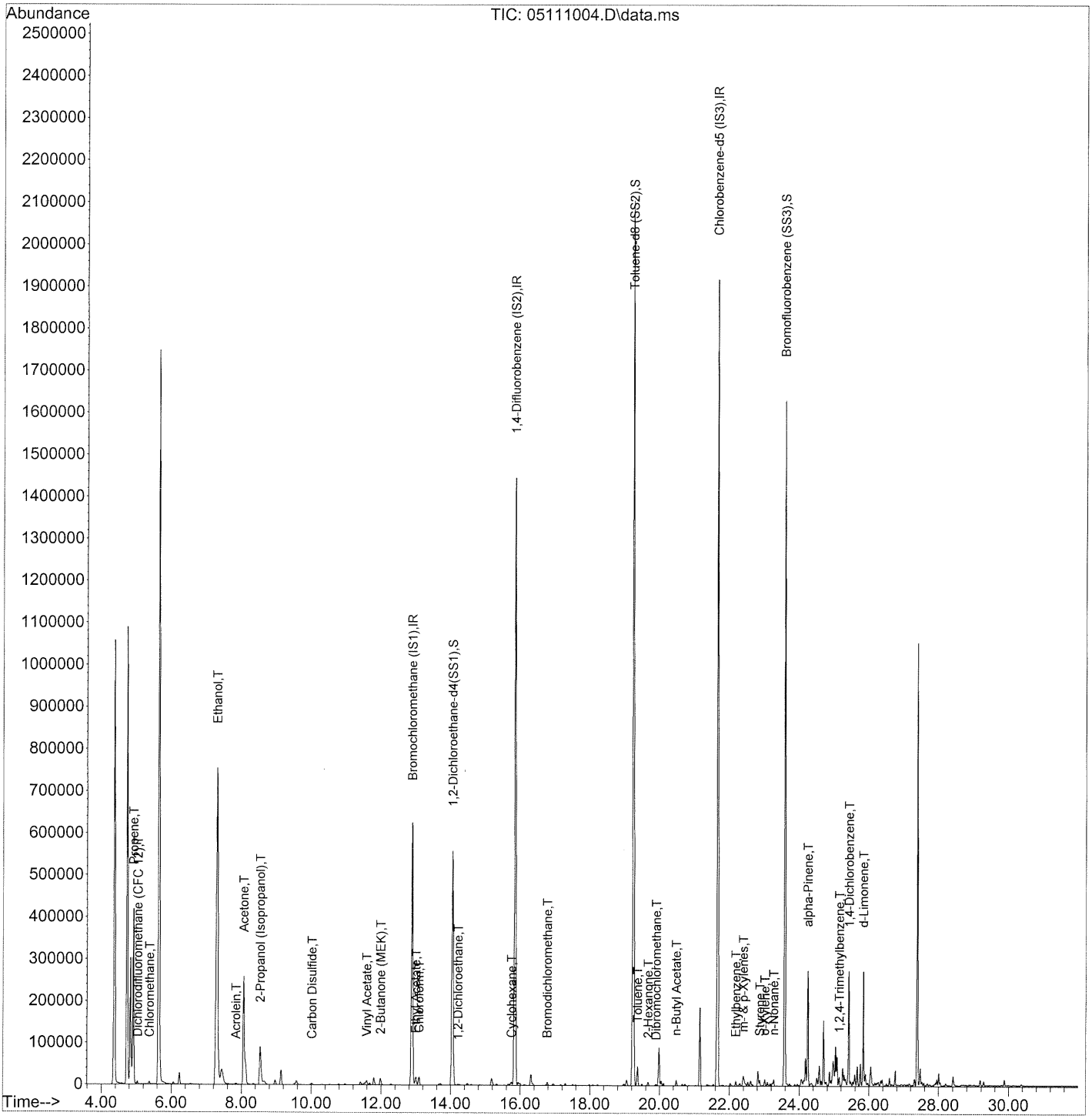
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	3439	N.D.		
81) 2-Ethyltoluene	24.88	105	29285	0.231 ng		95
82) 1,2,4-Trimethylbenzene	25.15	105	105005	1.009 ng		96
83) n-Decane	25.25	57	177260	3.738 ng		87
84) Benzyl Chloride	25.31	91	3931	N.D.		
85) 1,3-Dichlorobenzene	25.42	146	1566685	24.692 ng		100
86) 1,4-Dichlorobenzene	25.42	146	1566685	23.813 ng		100
87) sec-Butylbenzene	25.48	105	5579	N.D.		
88) 4-Isopropyltoluene (p-...	25.66	119	230065	1.712 ng		88
89) 1,2,3-Trimethylbenzene	25.66	105	37252	0.355 ng	#	29
90) 1,2-Dichlorobenzene	25.84	146	6673	0.110 ng		97
91) d-Limonene	25.84	68	865740	23.960 ng		80
92) 1,2-Dibromo-3-Chloropr...	26.76	157	895	N.D.		
93) n-Undecane	26.76	57	140443	2.991 ng		84
94) 1,2,4-Trichlorobenzene	27.90	180	1574	N.D.		
95) Naphthalene	28.05	128	84906	0.643 ng		100
96) n-Dodecane	28.01	57	126946	2.607 ng		91
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.60	55	71860	2.262 ng	#	87
99) tert-Butylbenzene	25.43	119	1979	N.D.		
100) n-Butylbenzene	26.16	91	16702	0.156 ng	#	51

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 17:47:29 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 17:47:29 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	374274	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1795509	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	758205	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	563383	24.941	ng		0.00
Spiked Amount 25.000			Recovery =	99.76%			✓
57) Toluene-d8 (SS2)	19.24	98	1901990	24.872	ng		0.00
Spiked Amount 25.000			Recovery =	99.48%			✓
73) Bromofluorobenzene (SS3)	23.58	174	641382	23.944	ng		0.00
Spiked Amount 25.000			Recovery =	95.76%			✓
Target Compounds							Qvalue
2) Propene	4.92	42	48382	2.282	ng	#	1
3) Dichlorodifluoromethan...	5.04	85	6003	0.120	ng	#	93
4) Chloromethane	5.37	50	2721	0.090	ng		83
10) Ethanol	7.29	45	1595765m	123.558	ng		
12) Acrolein	7.84	56	3474	0.273	ng		96
13) Acetone	8.06	58	156115	9.459	ng		86
15) 2-Propanol (Isopropanol)	8.53	45	208394	4.334	ng		97
22) Carbon Disulfide	10.01	76	8273	0.103	ng		81
26) Vinyl Acetate	11.59	86	3662	0.638	ng	#	1
27) 2-Butanone (MEK)	11.98	72	7826	0.516	ng	#	70
30) Ethyl Acetate	13.00	61	3292	0.409	ng		91
32) Chloroform	13.09	83	21495	0.527	ng		99
36) 1,2-Dichloroethane	14.21	62	3002	0.098	ng		89
43) Cyclohexane	15.75	84	4352	0.114	ng	#	81
46) Bromodichloromethane	16.78	83	7371	0.240	ng		99
58) Toluene	19.37	91	44360	0.411	ng		99
59) 2-Hexanone	19.67	43	4712	0.103	ng		88
60) Dibromochloromethane	19.91	129	2879	0.112	ng		99
62) n-Butyl Acetate	20.48	43	11894	0.228	ng		93
66) Ethylbenzene	22.19	91	11614	0.098	ng		99
67) m- & p-Xylenes	22.40	91	24159	0.259	ng		90
69) Styrene	22.87	104	9416	0.128	ng		92
70) o-Xylene	23.01	91	9876	0.104	ng		96
71) n-Nonane	23.27	43	5994	0.144	ng		84
75) alpha-Pinene	24.24	93	131959	2.186	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	9120	0.090	ng		93
86) 1,4-Dichlorobenzene	25.42	146	137459	2.146	ng		100
91) d-Limonene	25.84	68	67634	1.922	ng		83

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 17:47:29 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

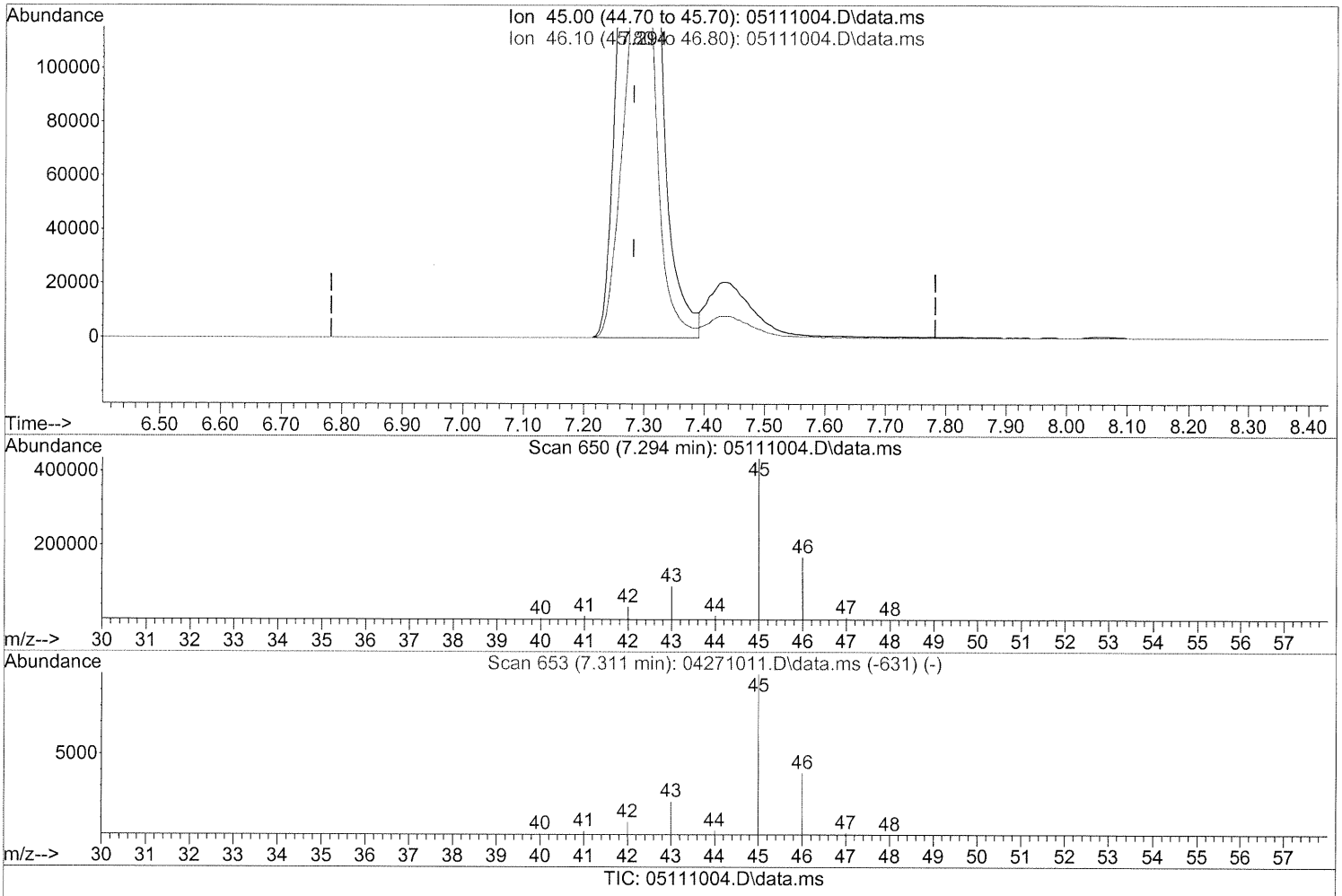
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:43 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05111004.D\data.ms

(10) Ethanol (T)

7.294min (+0.012) 115.29ng

response 1488971

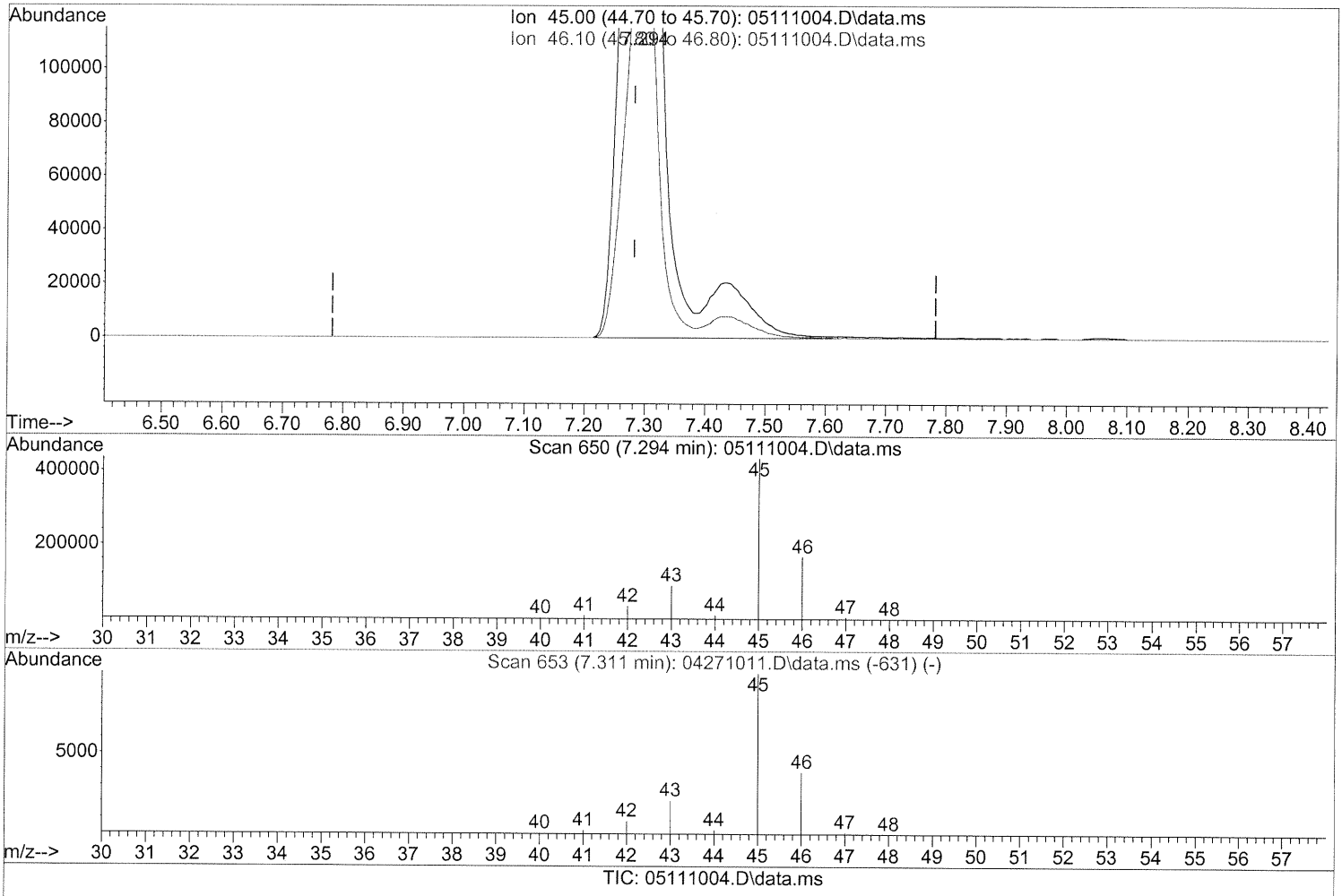
SP

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:43 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05111004.D\data.ms

(10) Ethanol (T)

7.294min (+0.012) 123.56ng m

response 1595765

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	35.97
0.00	0.00	0.00
0.00	0.00	0.00

SP-71C

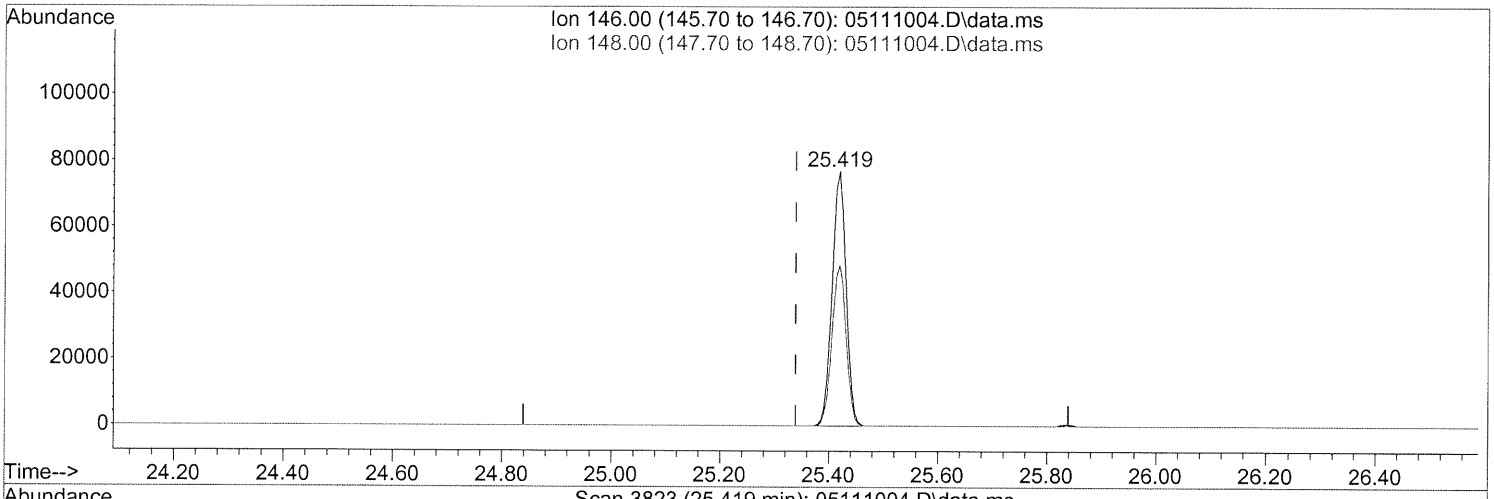
5/17/10

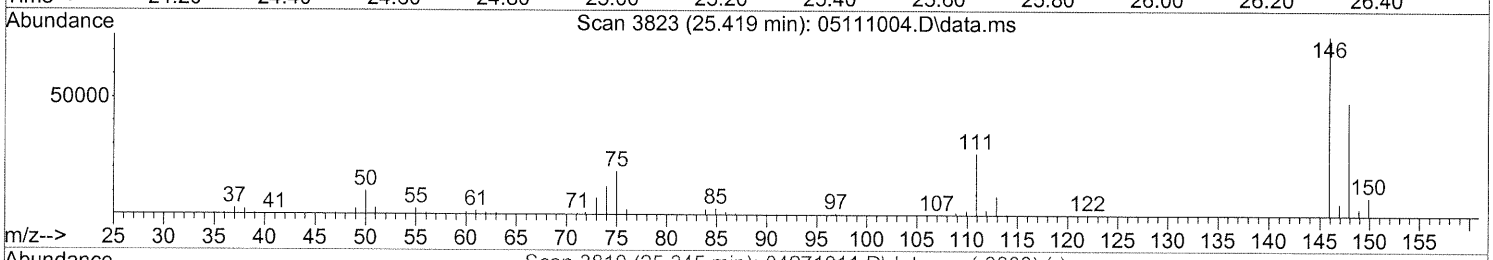
5/19/10

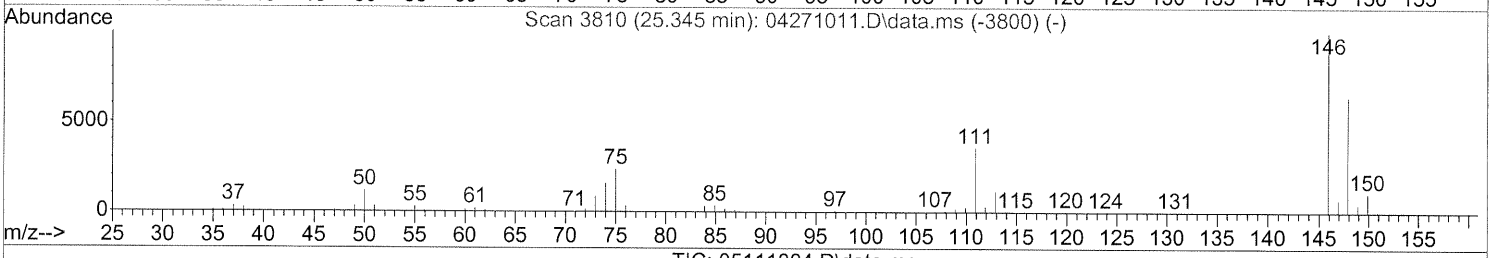
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:43 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05111004.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.419min (+0.080) 2.22ng

response 137459

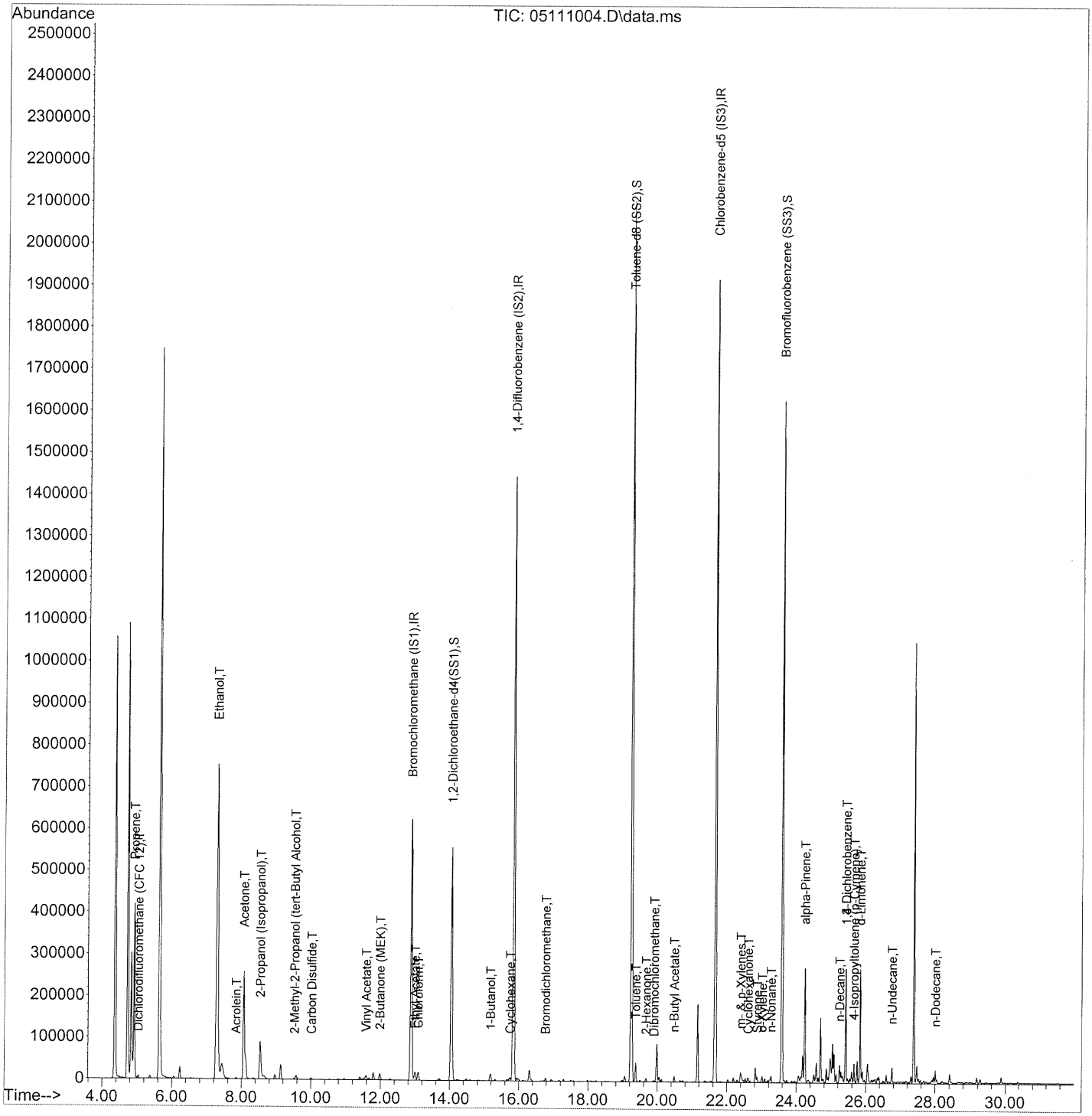
Ion	Exp%	Act%
146.00	100	100
148.00	63.70	63.97
0.00	0.00	0.00
0.00	0.00	0.00

TP

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:43 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:43 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	374274	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1795509	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	758205	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	563383	24.941	ng		0.00
Spiked Amount 25.000			Recovery = 99.76%				
57) Toluene-d8 (SS2)	19.24	98	1901990	24.872	ng		0.00
Spiked Amount 25.000			Recovery = 99.48%				
73) Bromofluorobenzene (SS3)	23.58	174	641382	23.944	ng		0.00
Spiked Amount 25.000			Recovery = 95.76%				
Target Compounds							Qvalue
2) Propene	4.92	42	48382	2.282	ng	#	1
3) Dichlorodifluoromethan...	5.04	85	6003	0.120	ng	#	93
4) Chloromethane	5.37	50	2721	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	7.29	45	1488971	115.289	ng		100
11) Acetonitrile	7.61	41	1239	N.D.			
12) Acrolein	7.84	56	3474	0.273	ng		96
13) Acetone	8.06	58	156115	9.459	ng		86
14) Trichlorofluoromethane	8.35	101	2769	N.D.			
15) 2-Propanol (Isopropanol)	8.53	45	208394	4.334	ng		97
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	10331	0.182	ng	#	77
19) Methylene Chloride	9.58	84	887	N.D.			
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	10.06	151	105	N.D.			
22) Carbon Disulfide	10.01	76	8273	0.103	ng		81
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	11.59	86	3662	0.638	ng	#	1
27) 2-Butanone (MEK)	11.98	72	7826	0.516	ng	#	70
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.10	87	1739	N.D.			
30) Ethyl Acetate	13.00	61	3292	0.409	ng		91
31) n-Hexane	13.01	57	3119	N.D.			

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:43 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.09	83	21495	0.527 ng		99
34) Tetrahydrofuran (THF)	13.71	72	661	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.21	62	3002	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	14712	0.679 ng	#	76
41) Benzene	15.33	78	5375	N.D.		
42) Carbon Tetrachloride	15.54	117	768	N.D.		
43) Cyclohexane	15.75	84	4352	0.114 ng	#	81
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.78	83	7371	0.240 ng		99
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	5155	N.D.		
50) Methyl Methacrylate	17.30	100	94	N.D.		
51) n-Heptane	17.30	71	1601	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	781	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	44360	0.411 ng		99
59) 2-Hexanone	19.67	43	4712	0.103 ng		88
60) Dibromochloromethane	19.91	129	2879	0.112 ng		99
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	11894	0.228 ng		93
63) n-Octane	20.65	57	794	N.D.		
64) Tetrachloroethene	20.84	166	616	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.19	91	11614	N.D.		
67) m- & p-Xylenes	22.40	91	24159	0.259 ng		90
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.87	104	9416	0.128 ng		92
70) o-Xylene	23.01	91	9876	0.104 ng		96
71) n-Nonane	23.27	43	5994	0.144 ng		84
72) 1,1,2,2-Tetrachloroethane	22.61	83	209	N.D.		
74) Cumene	23.75	105	873	N.D.		
75) alpha-Pinene	24.24	93	131959	2.186 ng		94
76) n-Propylbenzene	24.38	91	2181	N.D.		
77) 3-Ethyltoluene	24.50	105	5930	N.D.		
78) 4-Ethyltoluene	24.55	105	4350	N.D.		
79) 1,3,5-Trimethylbenzene	24.64	105	2306	N.D.		

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111004.D
Acq On : 11 May 2010 10:09
Operator : WA
Sample : P1001603-001 Dil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:43 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	25.04	118	1065	N.D.		
81) 2-Ethyltoluene	24.88	105	2425	N.D.		
82) 1,2,4-Trimethylbenzene	25.15	105	9120	N.D.		
83) n-Decane	25.25	57	15429	0.334 ng		87
84) Benzyl Chloride	25.41	91	99	N.D.		
85) 1,3-Dichlorobenzene	25.42	146	137459	2.225 ng		100
86) 1,4-Dichlorobenzene	25.42	146	137459	2.146 ng		100
87) sec-Butylbenzene	25.47	105	96	N.D.		
88) 4-Isopropyltoluene (p-...	25.66	119	19456	0.149 ng		89
89) 1,2,3-Trimethylbenzene	25.67	105	3196	N.D.		
90) 1,2-Dichlorobenzene	25.84	146	591	N.D.		
91) d-Limonene	25.84	68	67634	1.922 ng		83
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.76	57	11113	0.243 ng		82
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	28.05	128	7883	N.D.		
96) n-Dodecane	28.01	57	10360	0.219 ng		90
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.61	55	6406	0.207 ng	#	85
99) tert-Butylbenzene	25.15	119	1200	N.D.		
100) n-Butylbenzene	26.15	91	1571	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110257**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01315

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**12**	0.75	**6.8**	0.43	
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.75	**0.40**	0.15	
74-87-3	**Chloromethane**	**0.55**	0.30	**0.26**	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.30	ND	0.13	
74-83-9	Bromomethane	ND	0.15	ND	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	**Ethanol**	**2,100**	75	**1,100**	40	**D**
75-05-8	**Acetonitrile**	**0.84**	0.75	**0.50**	0.44	
107-02-8	**Acrolein**	**3.3**	3.0	**1.4**	1.3	
67-64-1	**Acetone**	**140**	7.5	**58**	3.1	
75-69-4	**Trichlorofluoromethane**	**1.1**	0.15	**0.19**	0.027	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**66**	1.5	**27**	0.61	
107-13-1	Acrylonitrile	ND	0.75	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	ND	0.75	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
76-13-1	**Trichlorotrifluoroethane**	**0.49**	0.15	**0.064**	0.019	
75-15-0	Carbon Disulfide	ND	7.5	ND	2.4	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.038	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.5	ND	2.1	
78-93-3	2-Butanone (MEK)	ND	7.5	ND	2.5	

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: Re Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110257**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01315

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	**Ethyl Acetate**	**8.8**	0.75	**2.4**	0.21	
110-54-3	**n-Hexane**	**1.5**	0.75	**0.42**	0.21	
67-66-3	**Chloroform**	**9.3**	0.15	**1.9**	0.031	
109-99-9	**Tetrahydrofuran (THF)**	**0.89**	0.75	**0.30**	0.25	
107-06-2	**1,2-Dichloroethane**	**1.9**	0.15	**0.47**	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	**Benzene**	**0.85**	0.15	**0.27**	0.047	
56-23-5	**Carbon Tetrachloride**	**0.62**	0.15	**0.098**	0.024	
110-82-7	**Cyclohexane**	**2.2**	0.75	**0.63**	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	**Bromodichloromethane**	**4.6**	0.15	**0.69**	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.75	ND	0.18	
142-82-5	**n-Heptane**	**1.3**	0.75	**0.31**	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	ND	0.16	
108-10-1	**4-Methyl-2-pentanone**	**0.79**	0.75	**0.19**	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	**Toluene**	**7.4**	0.75	**2.0**	0.20	
591-78-6	**2-Hexanone**	**0.92**	0.75	**0.23**	0.18	
124-48-1	**Dibromochloromethane**	**2.3**	0.15	**0.27**	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	**n-Butyl Acetate**	**4.3**	0.75	**0.90**	0.16	

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: BG Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.** CAS Project ID: P1001603
Client Sample ID: **110257** CAS Sample ID: P1001603-002
Client Project ID: **17131**

Test Code: EPA TO-15 Date Collected: 5/6/10
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/7/10
Analyst: Wida Ang Date Analyzed: 5/10 - 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.10 Liter(s)
Container ID: AC01315

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	**n-Octane**	**0.95**	0.75	**0.20**	0.16	
127-18-4	**Tetrachloroethene**	**0.45**	0.15	**0.066**	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	**Ethylbenzene**	**1.9**	0.75	**0.43**	0.17	
179601-23-1	**m,p-Xylenes**	**4.9**	0.75	**1.1**	0.17	
75-25-2	Bromoform	ND	0.75	ND	0.072	
100-42-5	**Styrene**	**2.6**	0.75	**0.61**	0.18	
95-47-6	**o-Xylene**	**1.9**	0.75	**0.44**	0.17	
111-84-2	**n-Nonane**	**2.7**	0.75	**0.51**	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.75	ND	0.15	
80-56-8	**alpha-Pinene**	**45**	0.75	**8.0**	0.13	
103-65-1	n-Propylbenzene	ND	0.75	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.75	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.75	ND	0.15	
95-63-6	**1,2,4-Trimethylbenzene**	**1.8**	0.75	**0.36**	0.15	
100-44-7	Benzyl Chloride	ND	0.75	ND	0.14	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	**1,4-Dichlorobenzene**	**41**	0.15	**6.8**	0.025	
95-50-1	**1,2-Dichlorobenzene**	**0.19**	0.15	**0.032**	0.025	
5989-27-5	**d-Limonene**	**55**	0.75	**9.9**	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	ND	0.077	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	ND	0.10	
91-20-3	**Naphthalene**	**1.2**	0.75	**0.23**	0.14	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

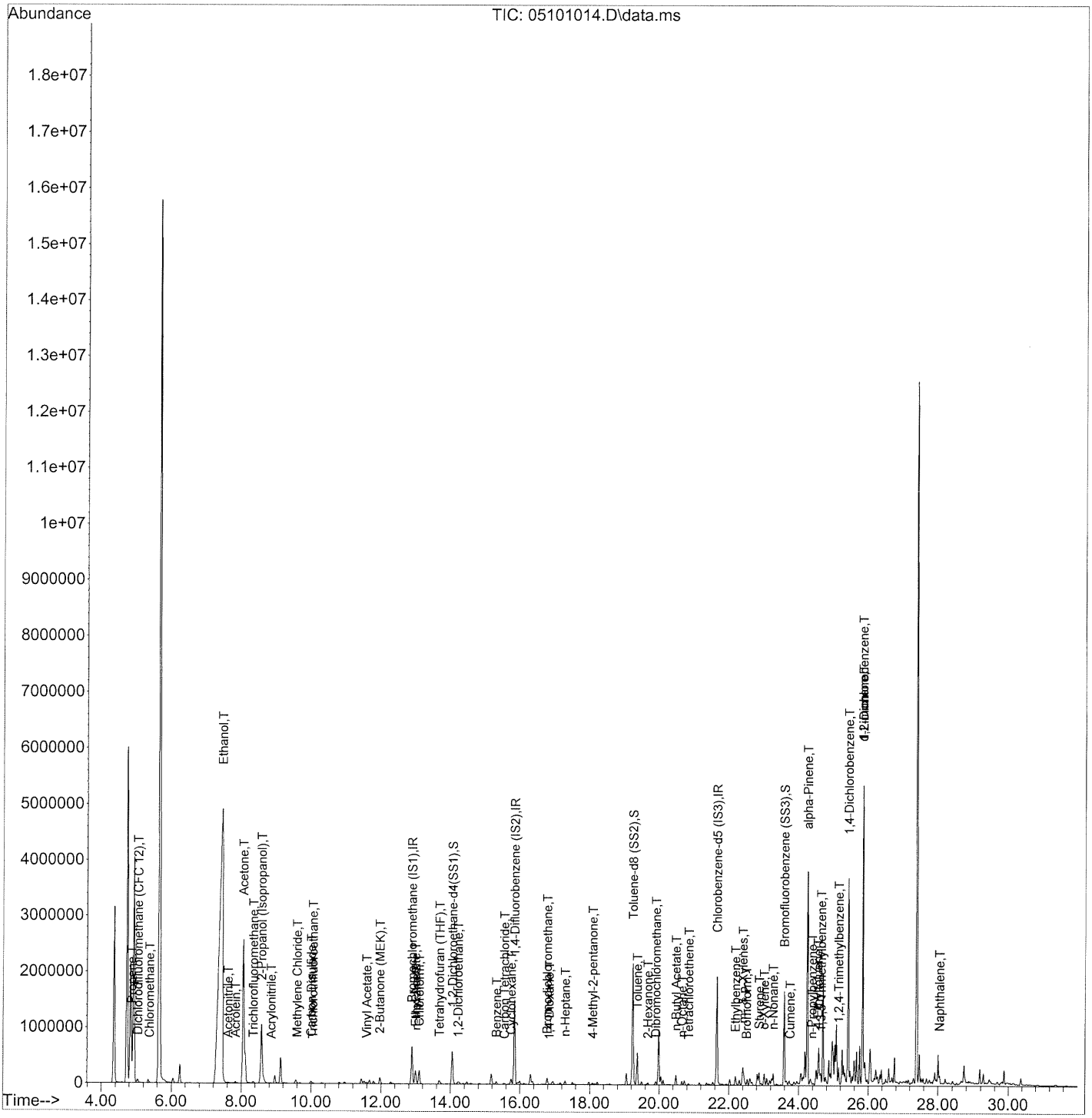
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 14 07:25:14 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 14 07:25:14 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	391769	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1844342	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	778232	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	579152	24.494	ng		0.00
Spiked Amount 25.000			Recovery =	97.96%			✓
57) Toluene-d8 (SS2)	19.24	98	1936515	24.672	ng		0.00
Spiked Amount 25.000			Recovery =	98.68%			✓
73) Bromofluorobenzene (SS3)	23.58	174	665937	24.221	ng		0.00
Spiked Amount 25.000			Recovery =	96.88%			✓
Target Compounds							Qvalue
2) Propene	4.87	42	173270m	7.807	ng		
3) Dichlorodifluoromethan...	5.04	85	69568	1.333	ng		99
4) Chloromethane	5.37	50	11619	0.367	ng		100
10) Ethanol	7.45	45	20249733m	1497.891	ng		see dil
11) Acetonitrile	7.62	41	18507	0.565	ng		98
12) Acrolein	7.83	56	29624	2.222	ng		98
13) Acetone	8.05	58	1604857	92.900	ng		91
14) Trichlorofluoromethane	8.35	101	33544	0.706	ng		99
15) 2-Propanol (Isopropanol)	8.58	45	2224759	44.202	ng		100
16) Acrylonitrile	8.85	53	2701	0.103	ng		92
19) Methylene Chloride	9.60	84	5181	0.199	ng	#	75
21) Trichlorotrifluoroethane	10.05	151	7796	0.327	ng	#	76
22) Carbon Disulfide	10.00	76	87823	1.046	ng		100
26) Vinyl Acetate	11.59	86	12003m	1.997	ng		
27) 2-Butanone (MEK)	11.97	72	55185	3.478	ng	#	67
30) Ethyl Acetate	12.99	61	49632	5.890	ng		91
31) n-Hexane	13.01	57	40237	1.002	ng	#	96
32) Chloroform	13.10	83	265570	6.221	ng		99
34) Tetrahydrofuran (THF)	13.69	72	9211	0.598	ng	#	20
36) 1,2-Dichloroethane	14.22	62	40740	1.272	ng		100
41) Benzene	15.32	78	59671	0.568	ng		99
42) Carbon Tetrachloride	15.55	117	13357	0.414	ng		100
43) Cyclohexane	15.75	84	56536	1.446	ng	#	78
46) Bromodichloromethane	16.78	83	97383	3.089	ng		99
48) 1,4-Dioxane	16.83	88	1851	0.090	ng		86
51) n-Heptane	17.30	71	21546	0.863	ng		89
53) 4-Methyl-2-pentanone	18.08	58	10497	0.528	ng		98
58) Toluene	19.37	91	548628	4.956	ng		99
59) 2-Hexanone	19.67	43	29007	0.619	ng		90
60) Dibromochloromethane	19.91	129	40852	1.544	ng		100

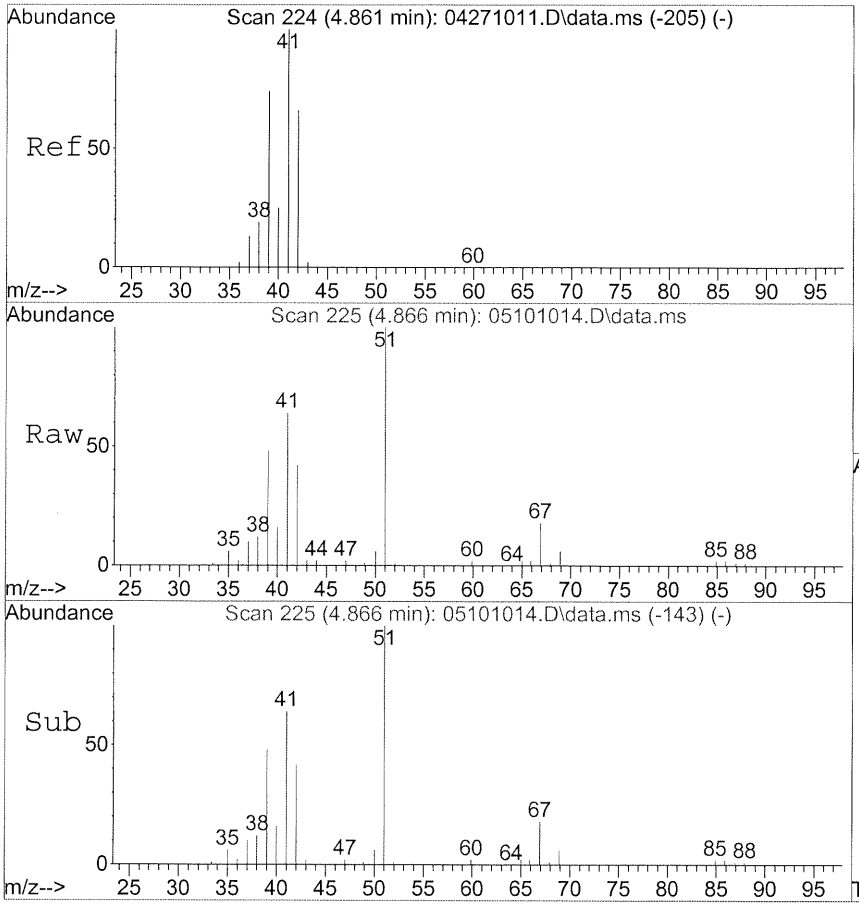
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Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 14 07:25:14 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
62) n-Butyl Acetate	20.48	43	153554	2.871	ng		93
63) n-Octane	20.66	57	12717	0.640	ng	#	80
64) Tetrachloroethene	20.84	166	10459	0.302	ng		99
66) Ethylbenzene	22.19	91	151698	1.250	ng		96
67) m- & p-Xylenes	22.40	91	318000	3.317	ng		93
68) Bromoform	22.51	173	5572	0.224	ng		98
69) Styrene	22.87	104	130625	1.732	ng		94
70) o-Xylene	23.01	91	124995	1.279	ng		95
71) n-Nonane	23.27	43	76018	1.783	ng		82
74) Cumene	23.75	105	12336	0.092	ng		98
75) alpha-Pinene	24.25	93	1851087	29.870	ng		94
76) n-Propylbenzene	24.38	91	31357	0.202	ng	#	88
78) 4-Ethyltoluene	24.55	105	55289	0.449	ng		90
79) 1,3,5-Trimethylbenzene	24.64	105	32124	0.319	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	122221	1.175	ng		96
86) 1,4-Dichlorobenzene	25.42	146	1812059	27.557	ng		100
90) 1,2-Dichlorobenzene	25.84	146	7730	0.128	ng		97
91) d-Limonene	25.84	68	1339686	37.096	ng	#	73
95) Naphthalene	28.05	128	105284	0.797	ng		99

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

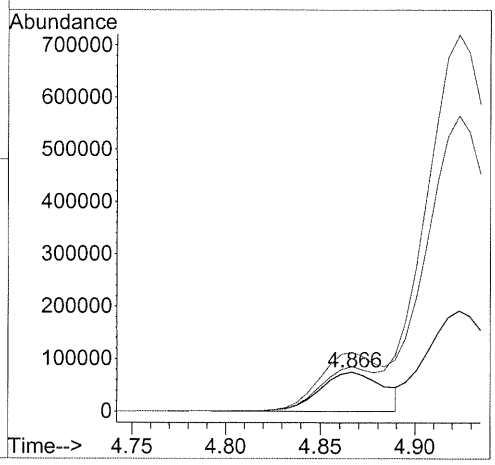
5/17/10

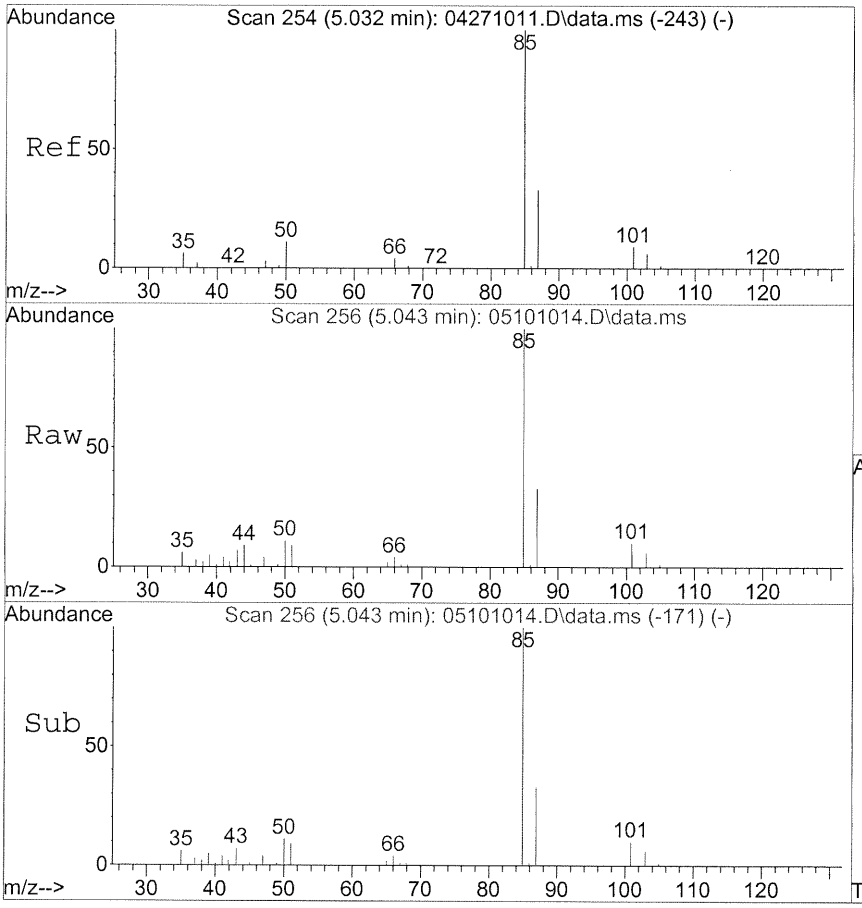


#2
Propene
Concen: 7.81 ng m
RT: 4.87 min Scan# 225
Delta R.T. -0.034 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 42 Resp: 173270

Ion	Ratio	Lower	Upper
42	100		
39	1077.6	92.2	132.2#
41	829.9	133.9	173.9#

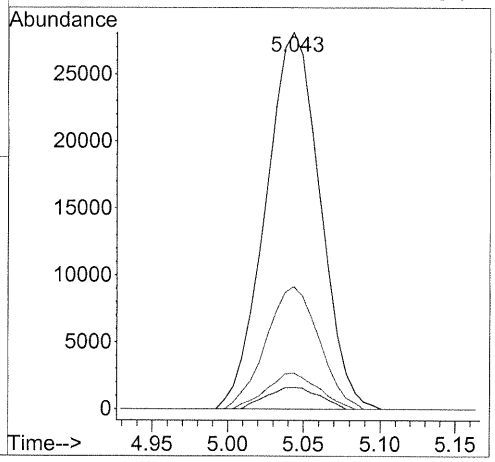


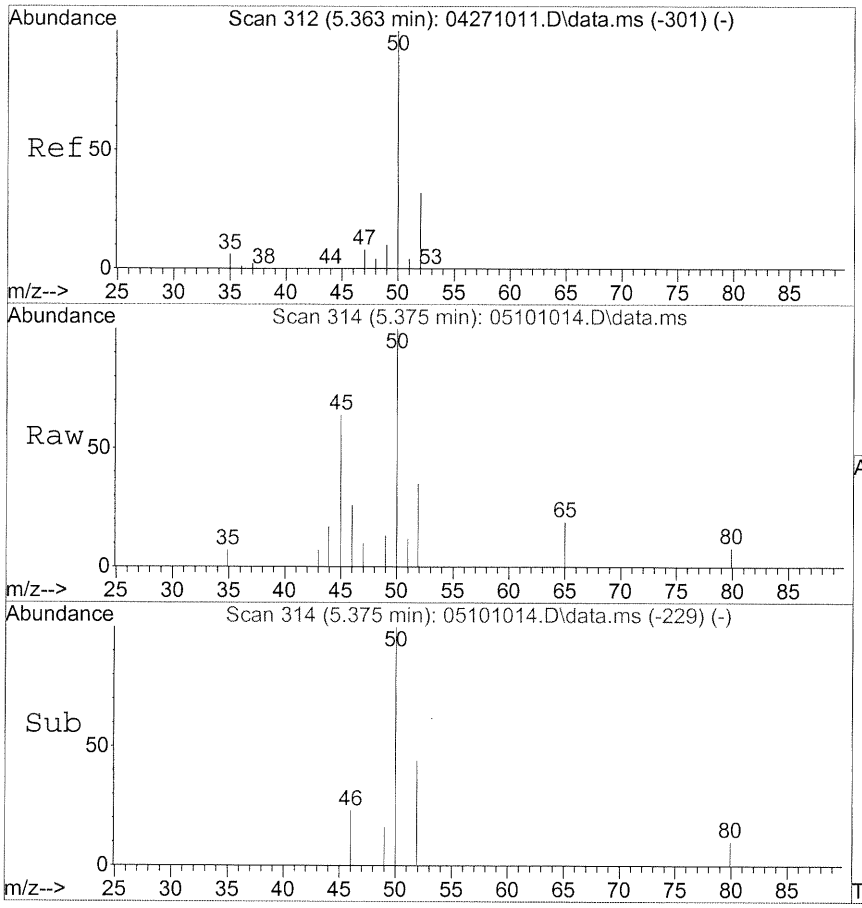


#3
Dichlorodifluoromethane (CFC
Concen: 1.33 ng
RT: 5.04 min Scan# 256
Delta R.T. -0.017 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 85 Resp: 69568

Ion	Ratio	Lower	Upper
85	100		
87	31.8	12.0	52.0
101	9.1	0.0	28.5
103	5.5	0.0	25.4

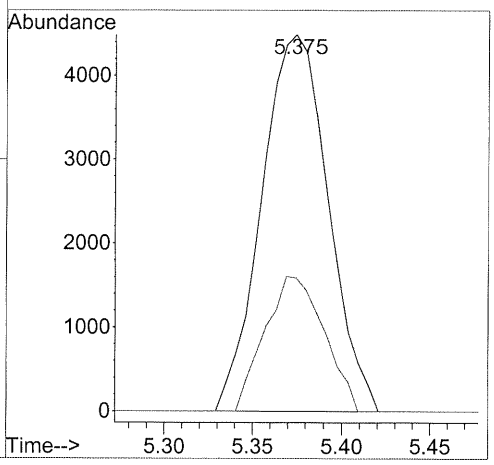


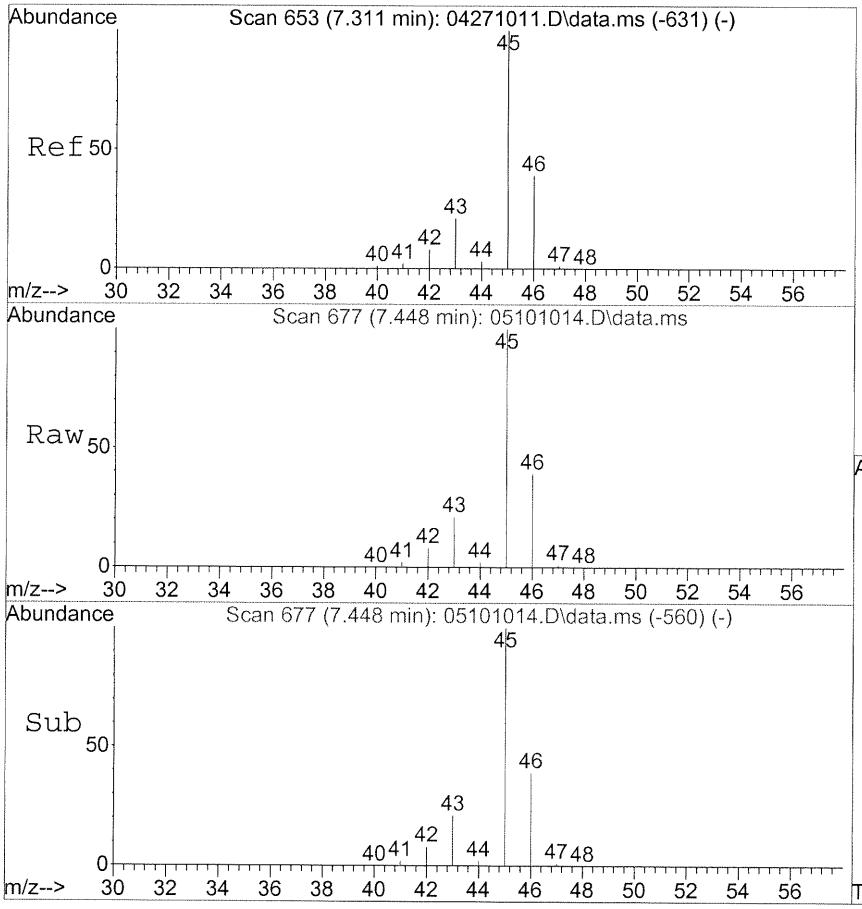


#4
Chloromethane
Concen: 0.37 ng
RT: 5.37 min Scan# 314
Delta R.T. -0.017 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 50 Resp: 11619

Ion	Ratio	Lower	Upper
50	100		
52	31.9	12.1	52.1

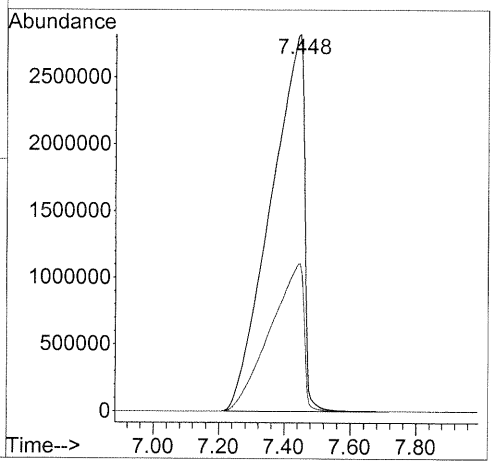


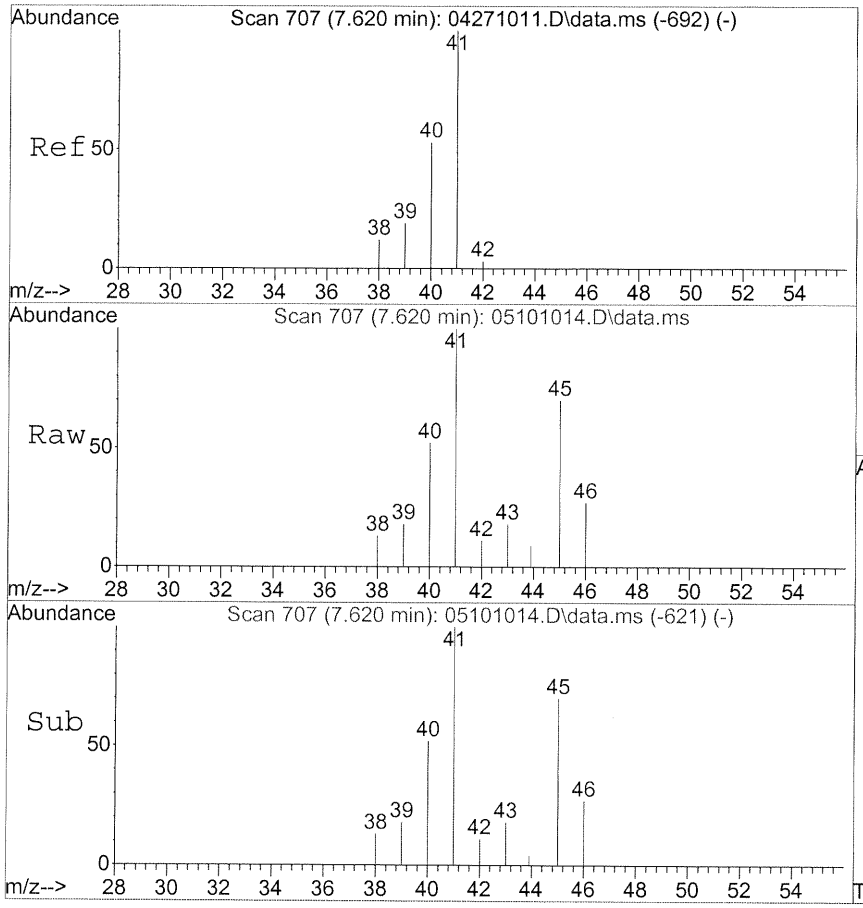


#10
Ethanol
Concen: 1497.89 ng m
RT: 7.45 min Scan# 677
Delta R.T. 0.166 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 45 Resp:20249733

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.4	58.4#

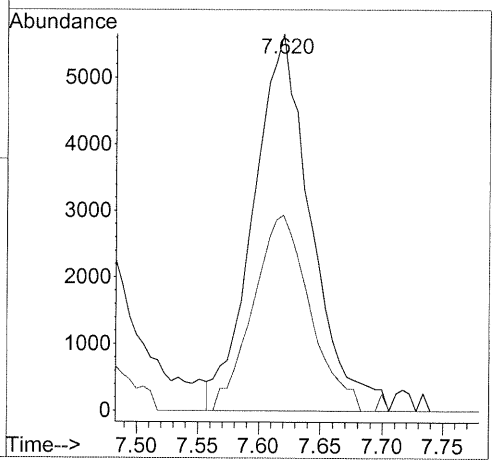


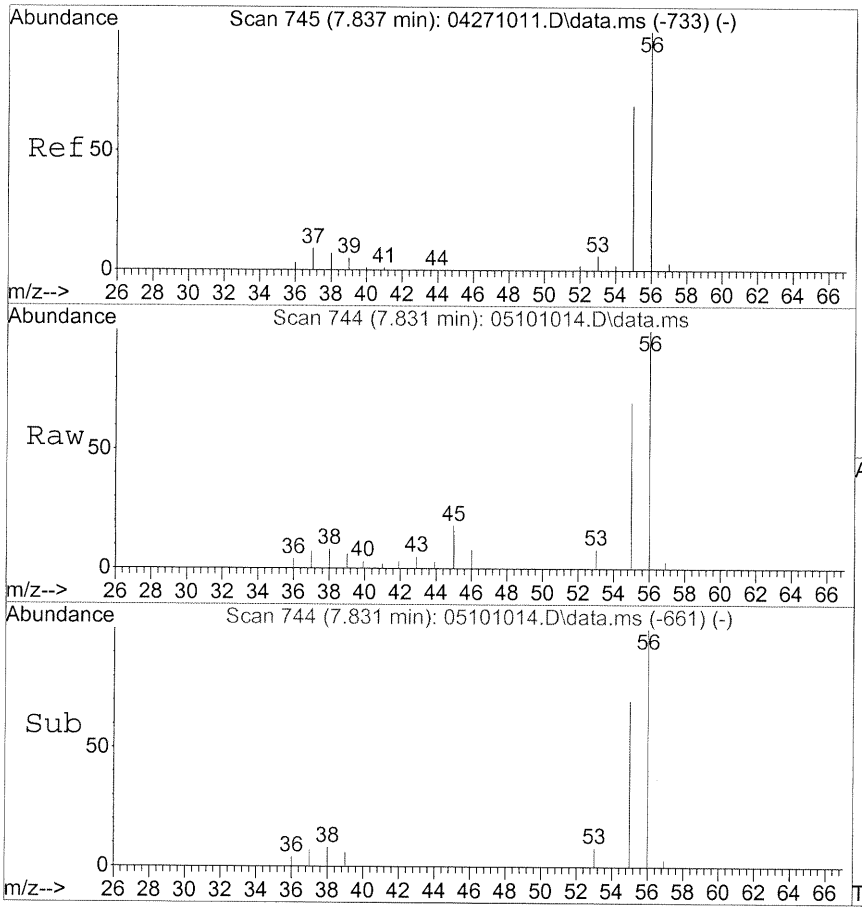


#11
Acetonitrile
Concen: 0.56 ng
RT: 7.62 min Scan# 707
Delta R.T. -0.011 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 41 Resp: 18507

Ion	Ratio	Lower	Upper
41	100		
40	51.2	32.7	72.7

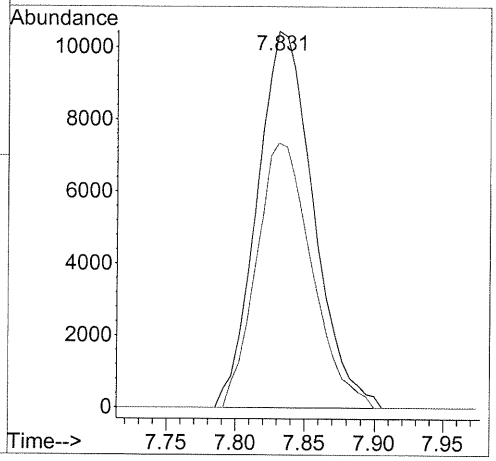


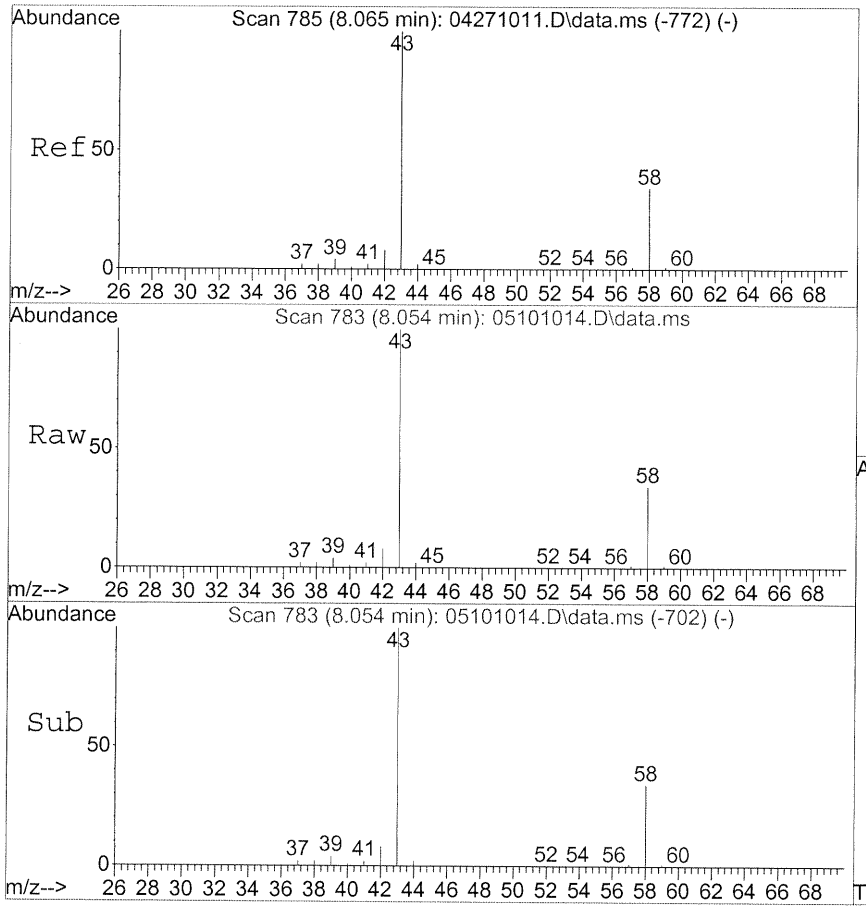


#12
Acrolein
Concen: 2.22 ng
RT: 7.83 min Scan# 744
Delta R.T. -0.028 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 56 Resp: 29624

Ion	Ratio	Lower	Upper
56	100		
55	69.1	50.5	90.5

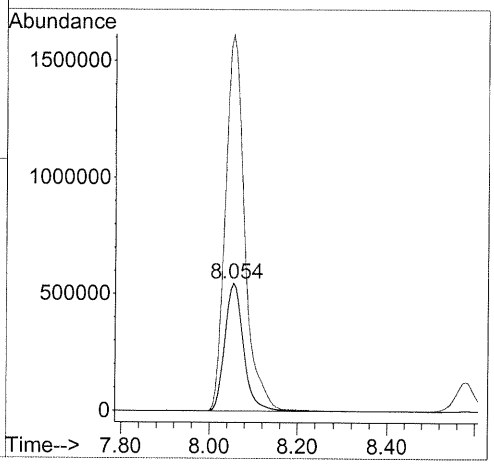


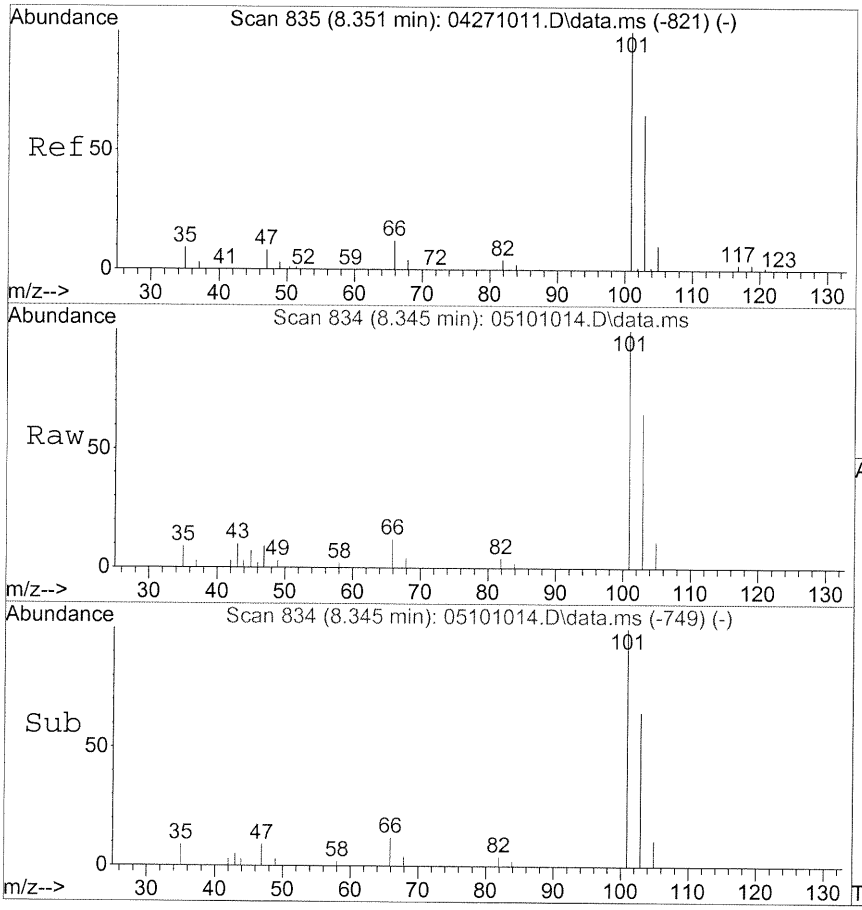


#13
Acetone
Concen: 92.90 ng
RT: 8.05 min Scan# 783
Delta R.T. -0.040 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 58 Resp: 1604857

Ion	Ratio	Lower	Upper
58	100		
43	305.5	295.0	355.0

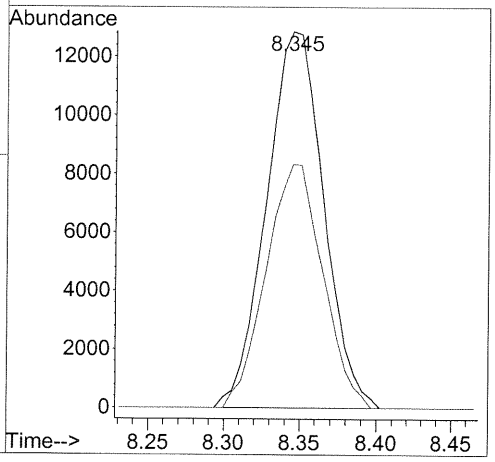


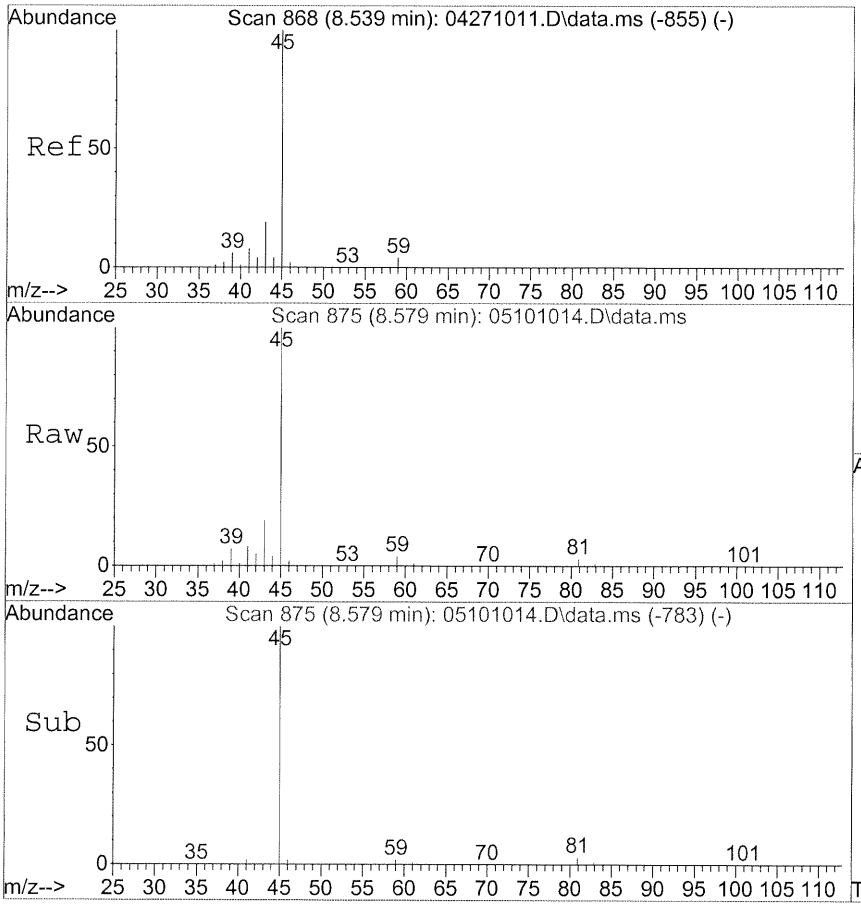


#14
Trichlorofluoromethane
Concen: 0.71 ng
RT: 8.35 min Scan# 834
Delta R.T. -0.017 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:101 Resp: 33544

Ion	Ratio	Lower	Upper
101	100		
103	64.3	43.8	83.8

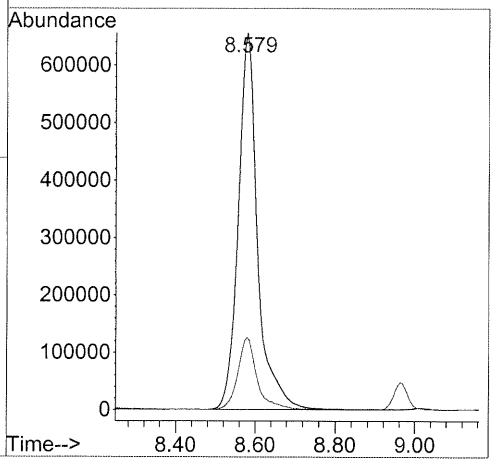


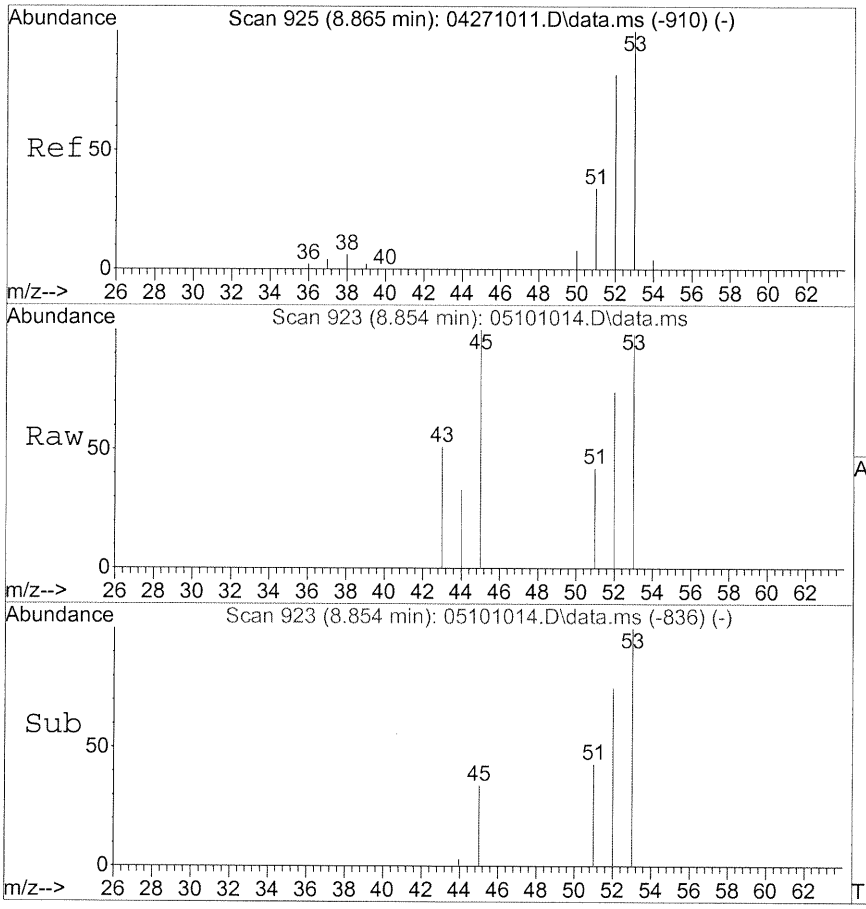


#15
2-Propanol (Isopropanol)
Concen: 44.20 ng
RT: 8.58 min Scan# 875
Delta R.T. 0.023 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 45 Resp: 2224759

Ion	Ratio	Lower	Upper
45	100		
43	19.1	0.0	39.2

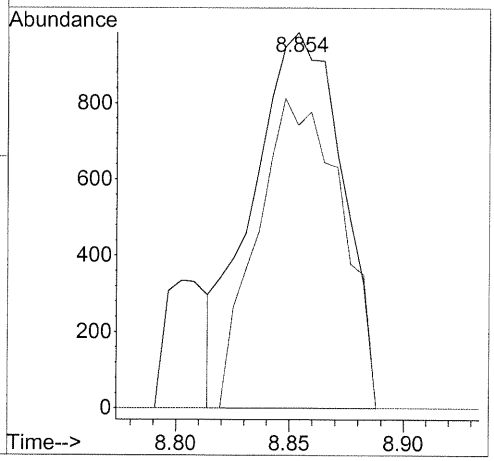


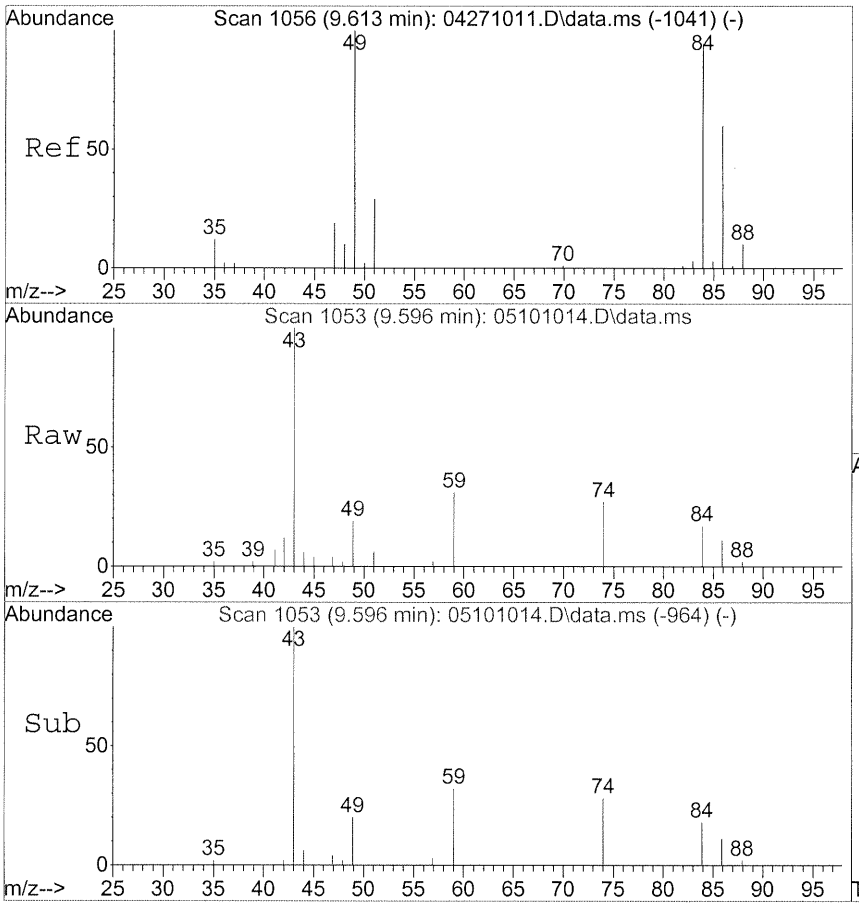


#16
Acrylonitrile
Concen: 0.10 ng
RT: 8.85 min Scan# 923
Delta R.T. -0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 53 Resp: 2701

Ion	Ratio	Lower	Upper
53	100		
52	77.2	64.1	104.1

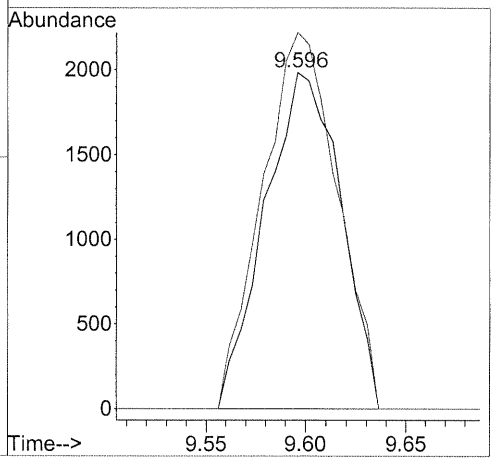


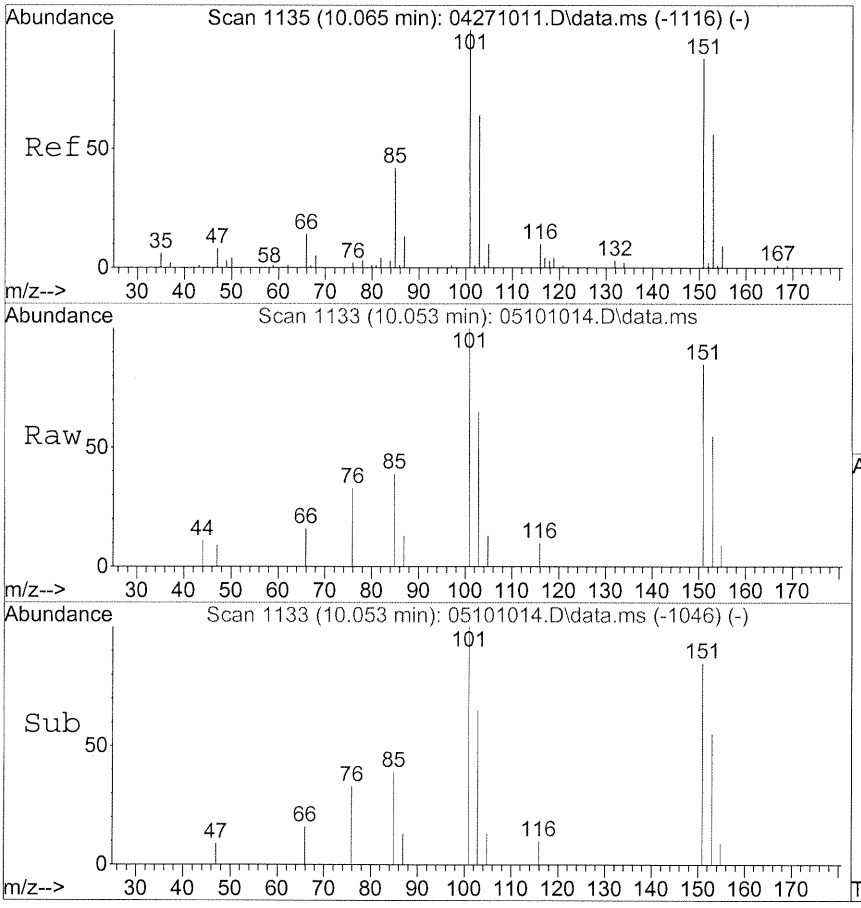


#19
Methylene Chloride
Concen: 0.20 ng
RT: 9.60 min Scan# 1053
Delta R.T. 0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 84 Resp: 5181

Ion	Ratio	Lower	Upper
84	100		
49	111.4	116.6	166.6#

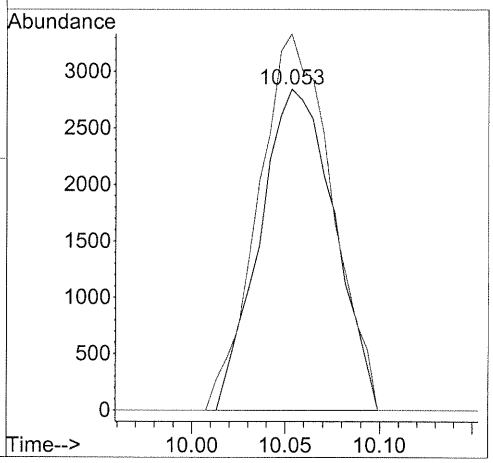


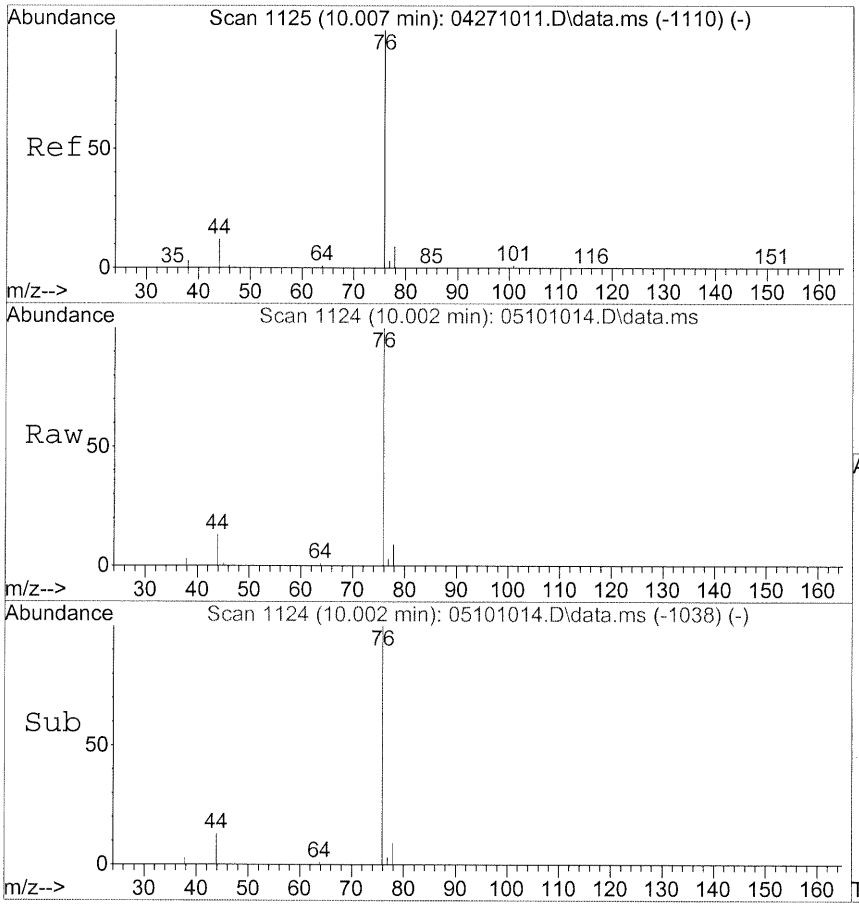


#21
Trichlorotrifluoroethane
Concen: 0.33 ng
RT: 10.05 min Scan# 1133
Delta R.T. -0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:151 Resp: 7796

Ion	Ratio	Lower	Upper
151	100		
101	115.9	125.6	165.6#

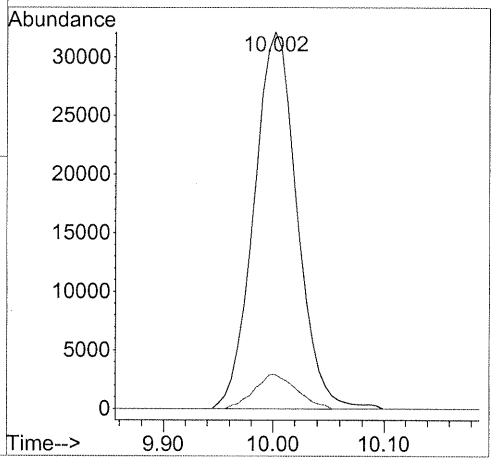


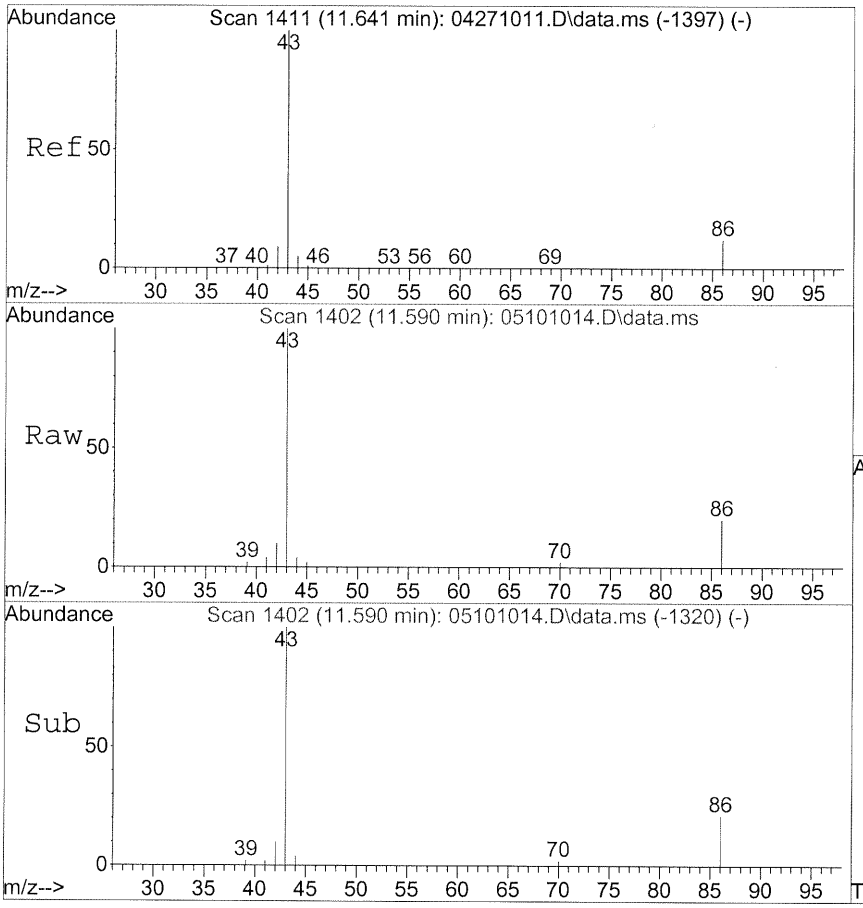


#22
Carbon Disulfide
Concen: 1.05 ng
RT: 10.00 min Scan# 1124
Delta R.T. -0.011 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 76 Resp: 87823

Ion	Ratio	Lower	Upper
76	100		
78	8.9	0.0	29.1

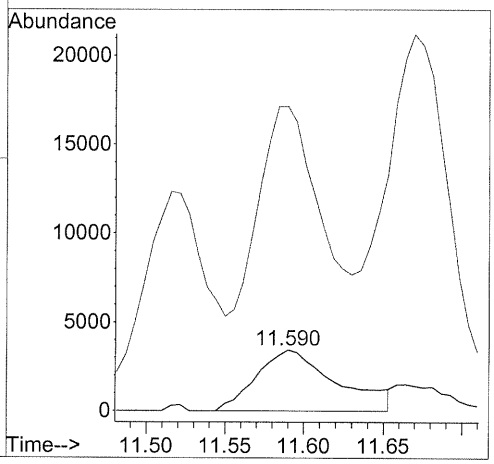


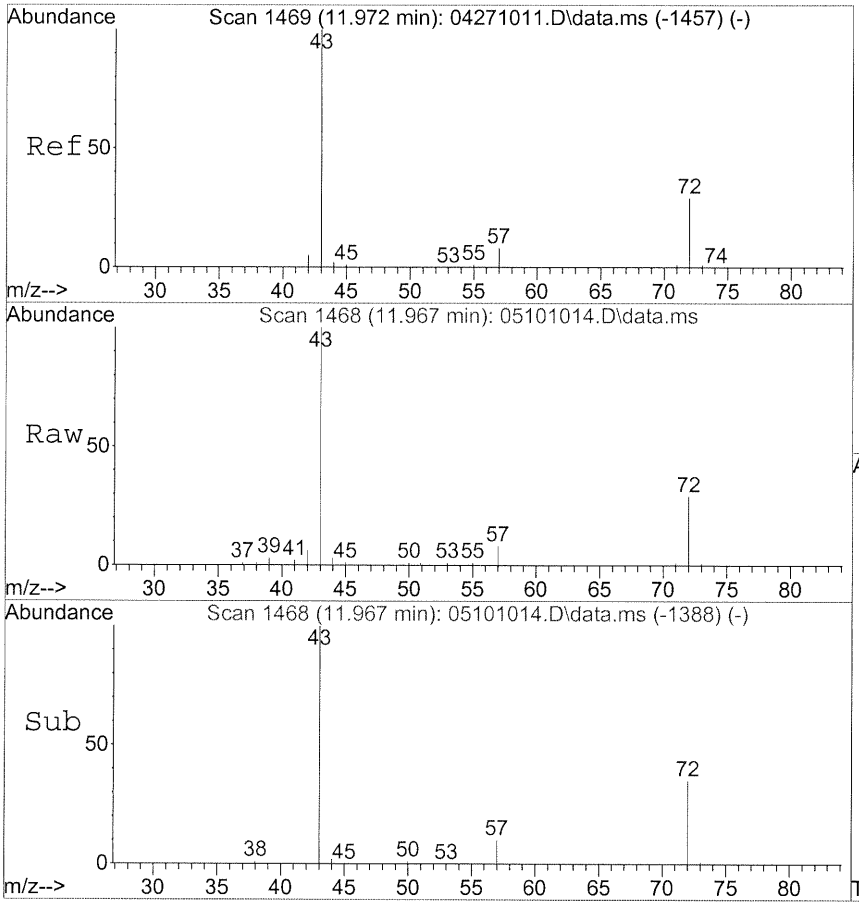


#26
Vinyl Acetate
Concen: 2.00 ng m
RT: 11.59 min Scan# 1402
Delta R.T. -0.034 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 86 Resp: 12003

Ion	Ratio	Lower	Upper
86	100		
43	505.6	1285.5	1325.5#

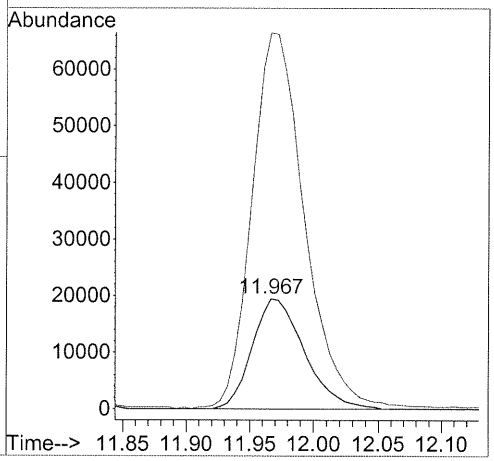


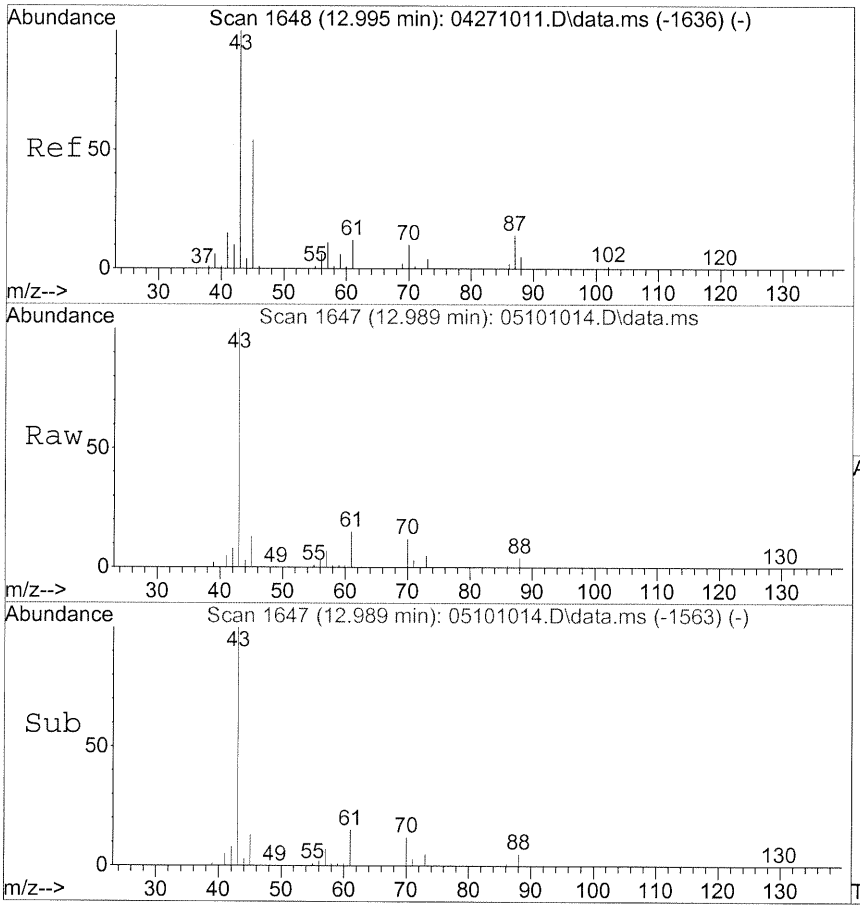


#27
2-Butanone (MEK)
Concen: 3.48 ng
RT: 11.97 min Scan# 1468
Delta R.T. -0.046 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 72 Resp: 55185

Ion	Ratio	Lower	Upper
72	100		
43	349.0	412.3	452.3#

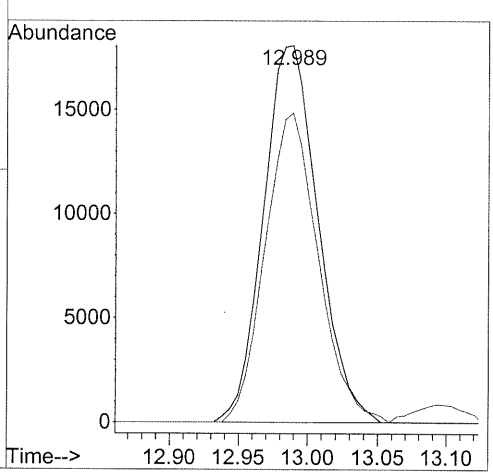


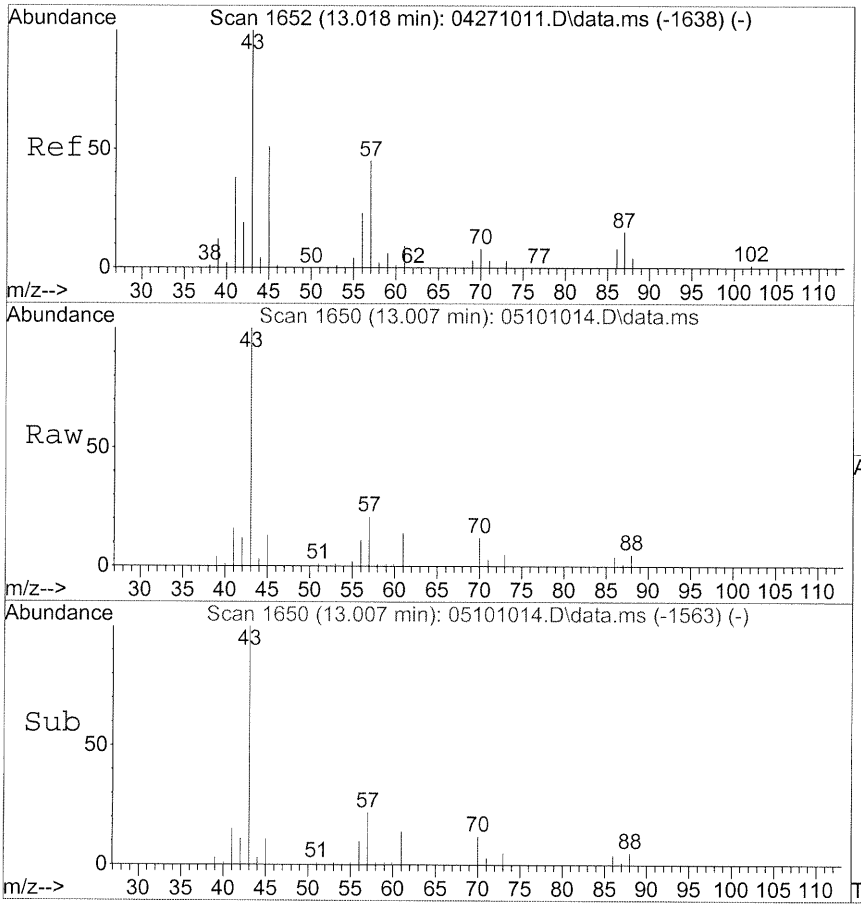


#30
Ethyl Acetate
Concen: 5.89 ng
RT: 12.99 min Scan# 1647
Delta R.T. -0.023 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 61 Resp: 49632

Ion	Ratio	Lower	Upper
61	100		
70	79.8	52.2	92.2

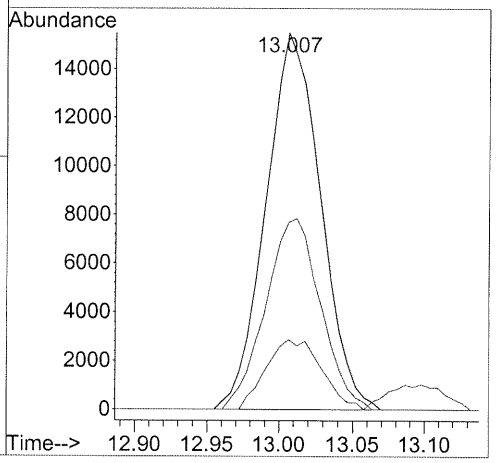


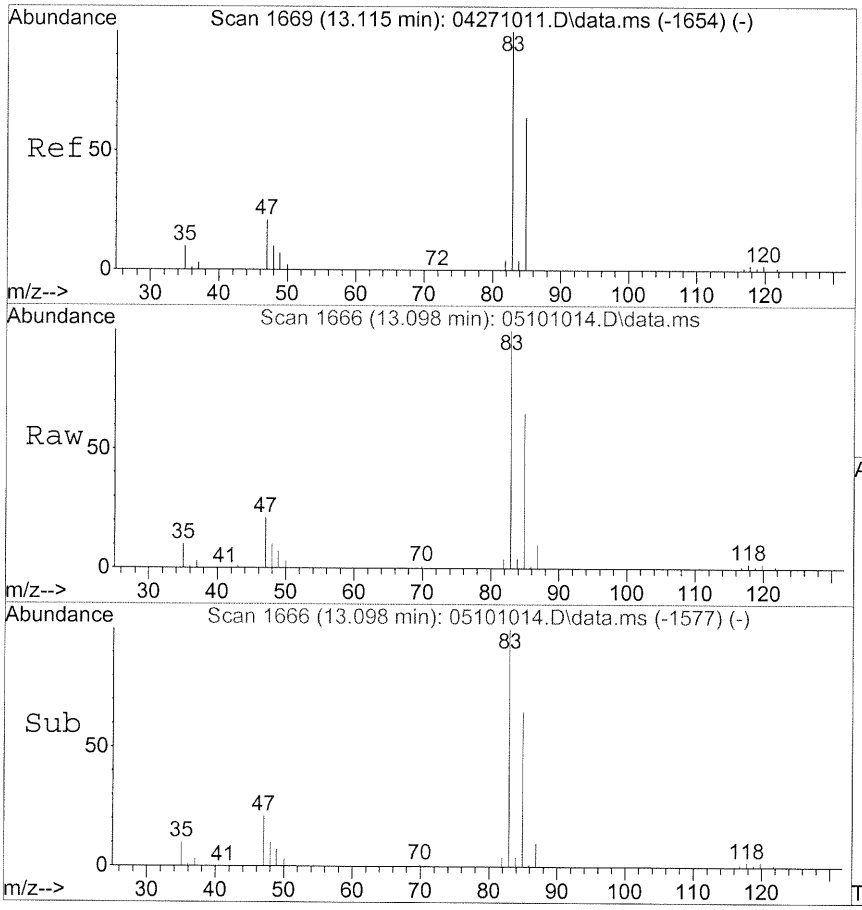


#31
n-Hexane
Concen: 1.00 ng
RT: 13.01 min Scan# 1650
Delta R.T. -0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 57 Resp: 40237

Ion	Ratio	Lower	Upper
57	100		
56	51.0	40.0	60.0
86	18.7	11.5	17.3#

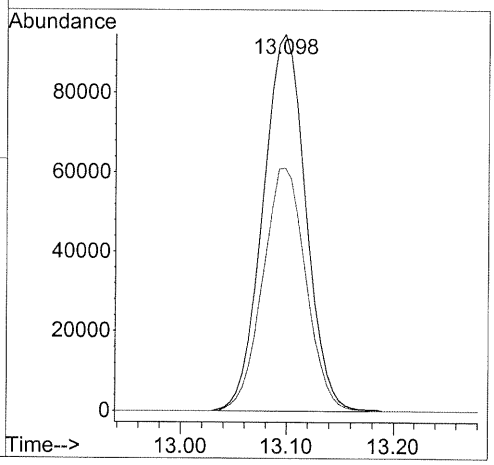


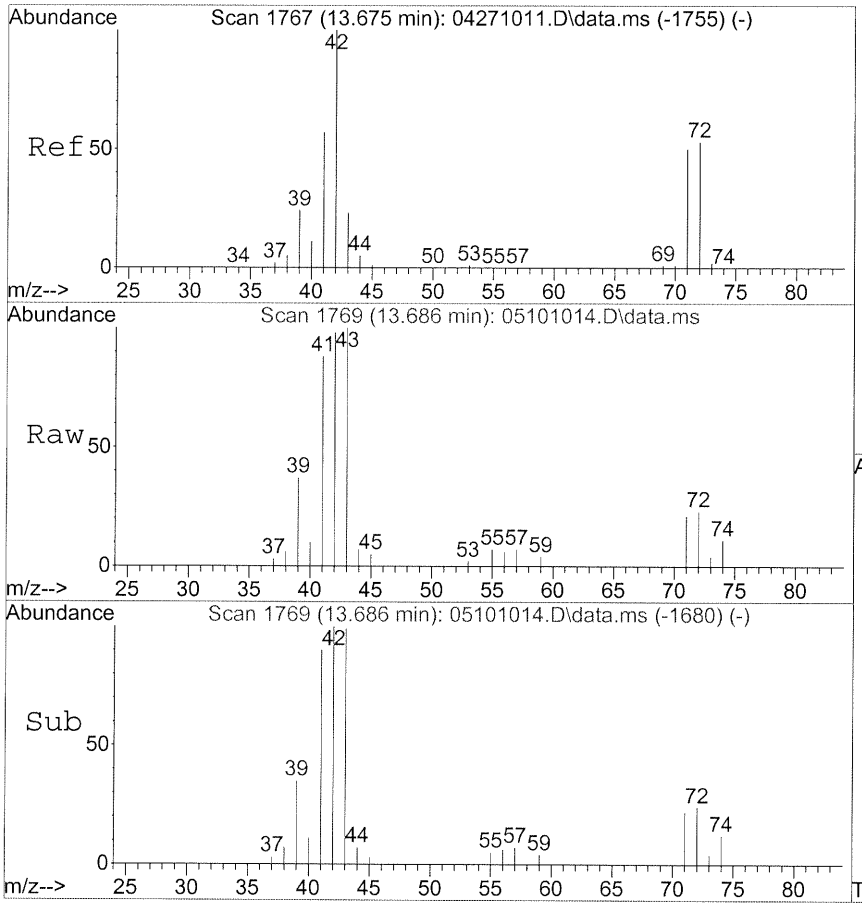


#32
Chloroform
Concen: 6.22 ng
RT: 13.10 min Scan# 1666
Delta R.T. 0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 83 Resp: 265570

Ion	Ratio	Lower	Upper
83	100		
85	64.9	44.0	84.0

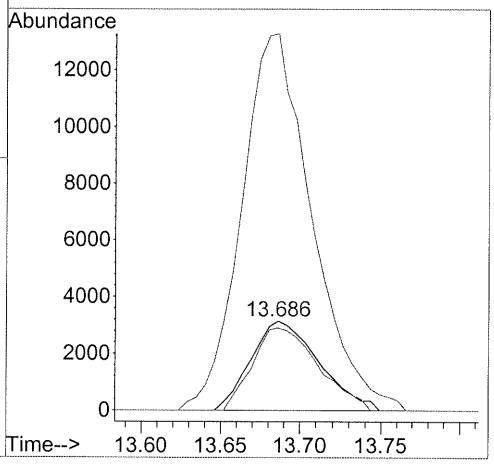


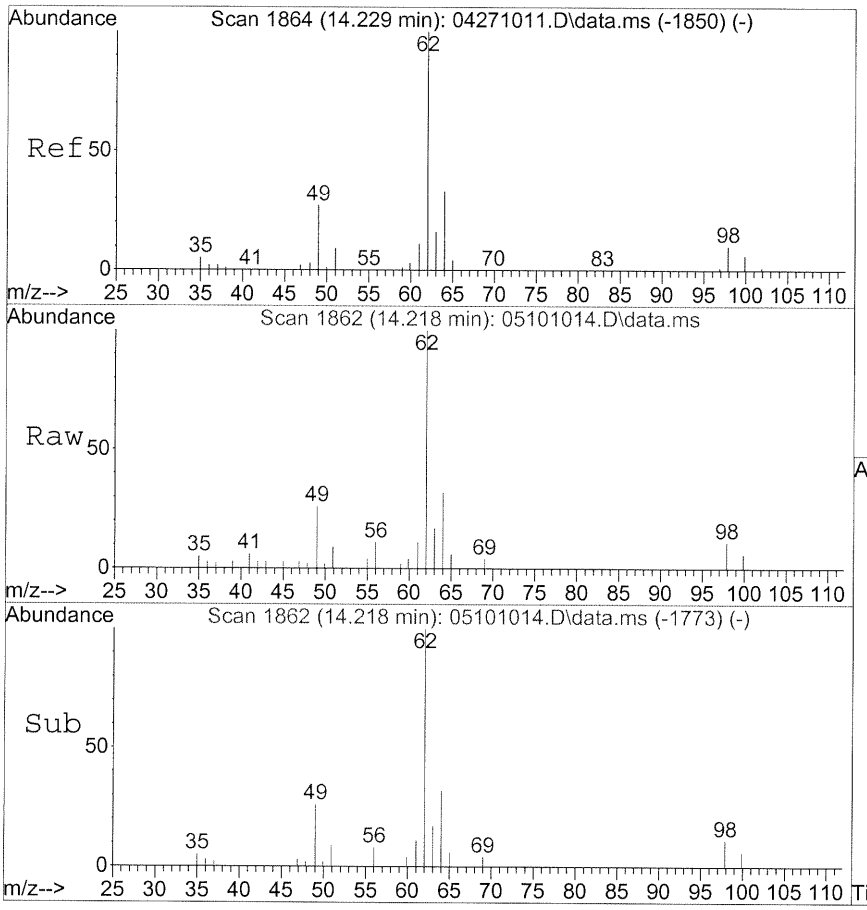


#34
Tetrahydrofuran (THF)
Concen: 0.60 ng
RT: 13.69 min Scan# 1769
Delta R.T. 0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 72 Resp: 9211

Ion	Ratio	Lower	Upper
72	100		
71	89.8	76.0	116.0
42	441.0	231.9	271.9#

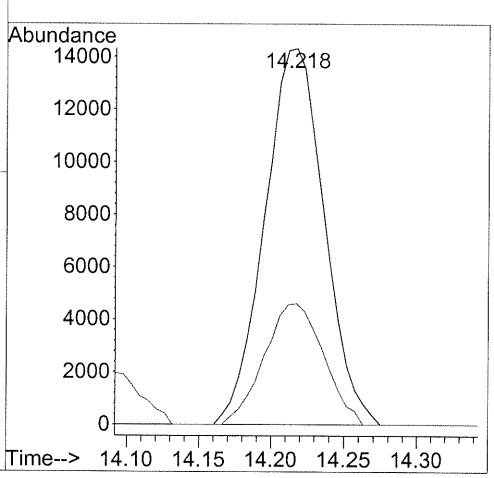


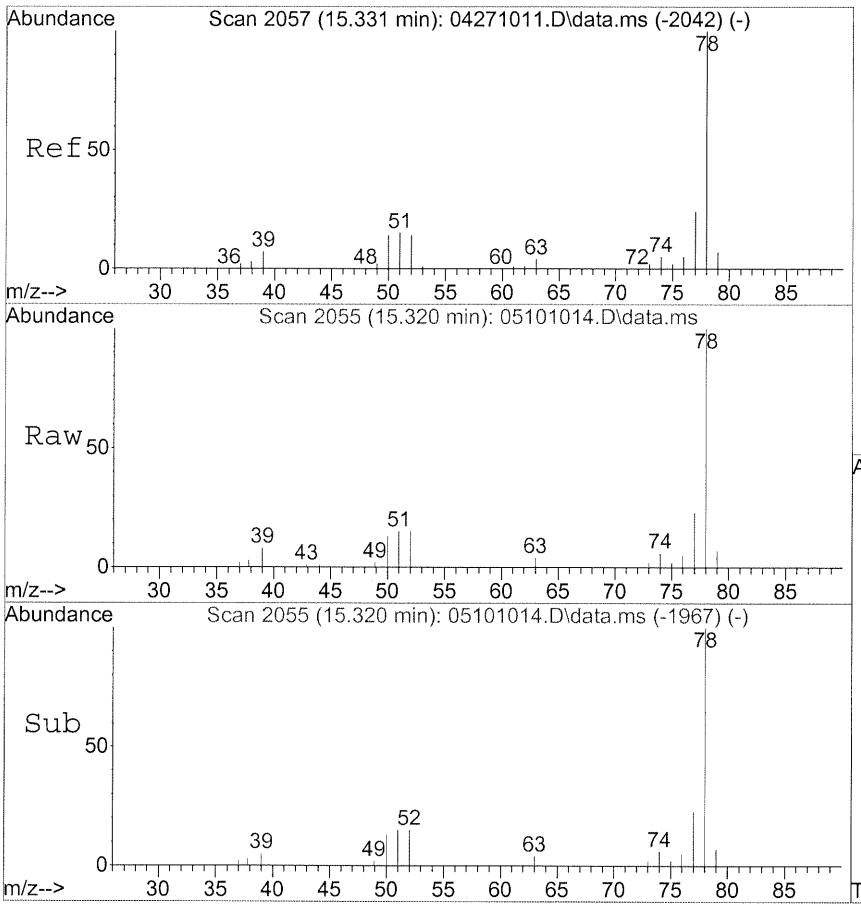


#36
1,2-Dichloroethane
Concen: 1.27 ng
RT: 14.22 min Scan# 1862
Delta R.T. 0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 62 Resp: 40740

Ion	Ratio	Lower	Upper
62	100		
64	32.0	12.0	52.0

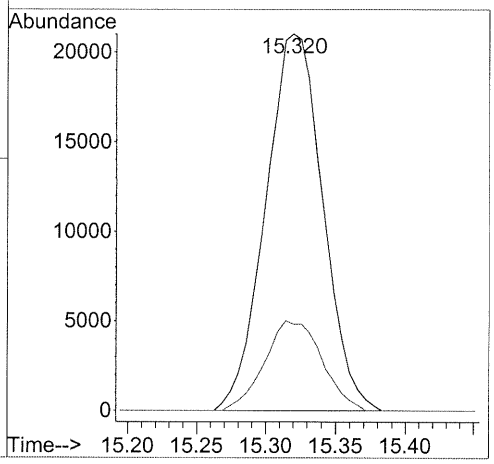


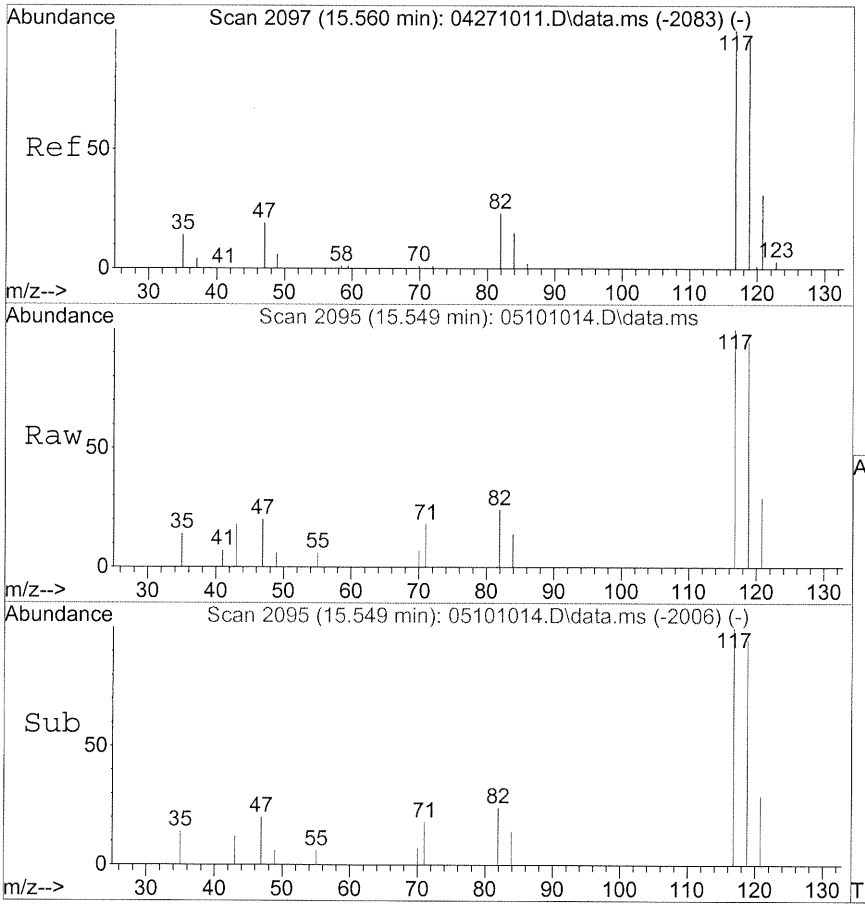


#41
Benzene
Concen: 0.57 ng
RT: 15.32 min Scan# 2055
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 78 Resp: 59671

Ion	Ratio	Lower	Upper
78	100		
77	23.9	4.4	44.4

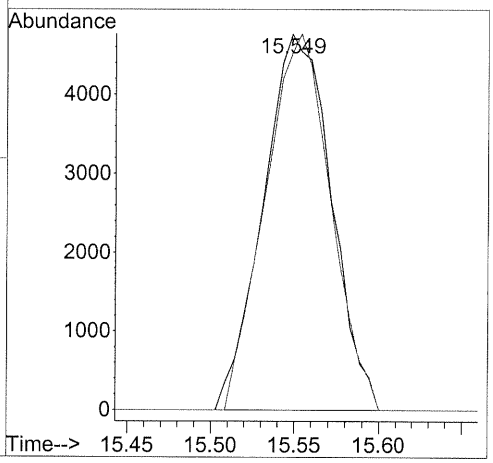


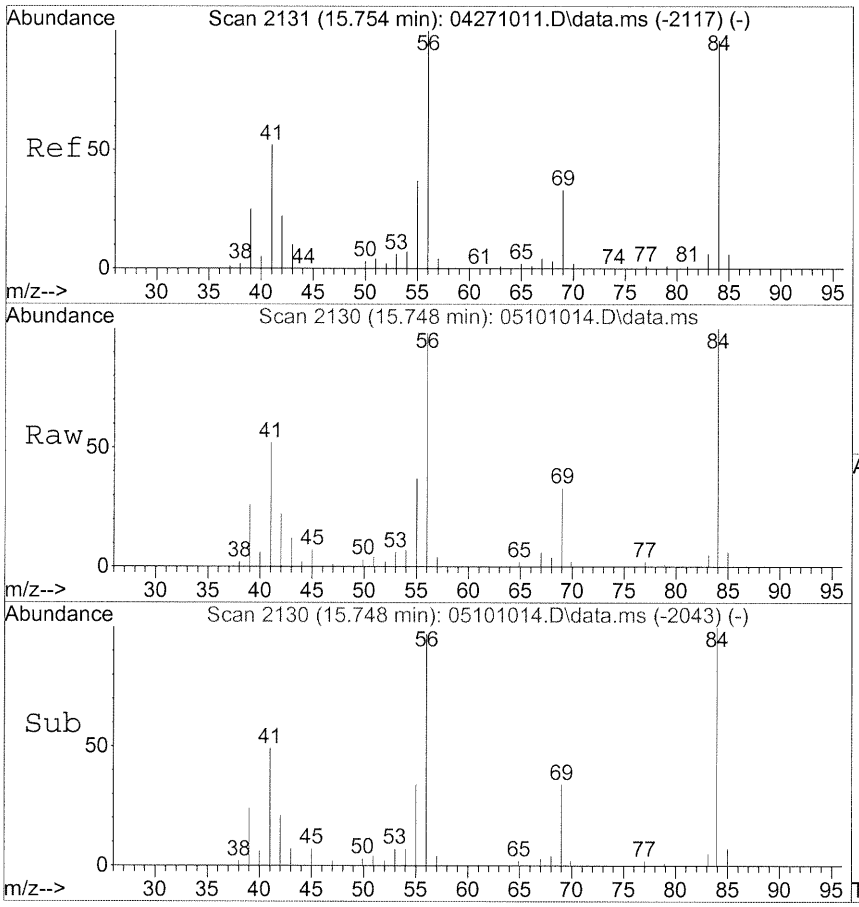


#42
Carbon Tetrachloride
Concen: 0.41 ng
RT: 15.55 min Scan# 2095
Delta R.T. 0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:117 Resp: 13357

Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.8	115.8

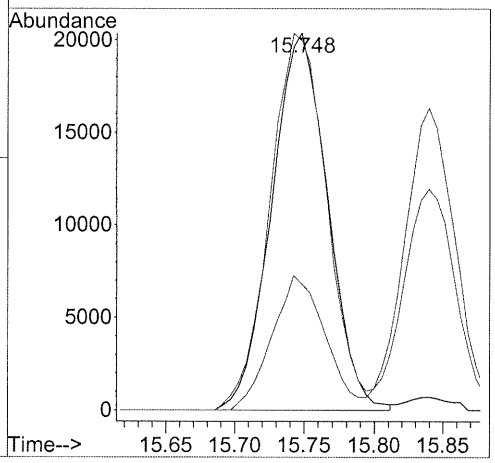


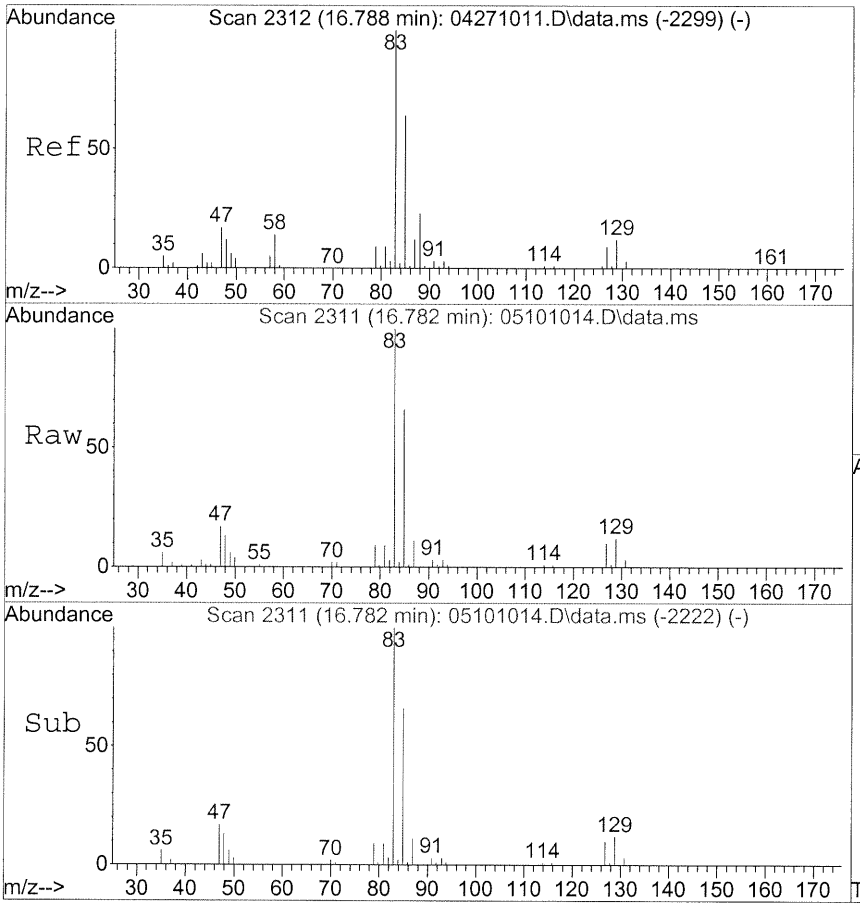


#43
Cyclohexane
Concen: 1.45 ng
RT: 15.75 min Scan# 2130
Delta R.T. -0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 84 Resp: 56536

Ion	Ratio	Lower	Upper
84	100		
69	34.0	18.4	58.4
56	101.4	112.6	152.6#

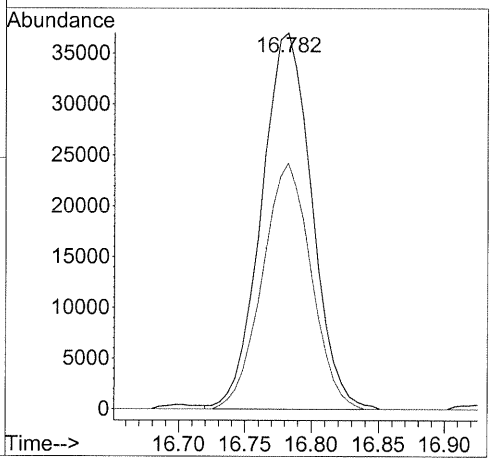


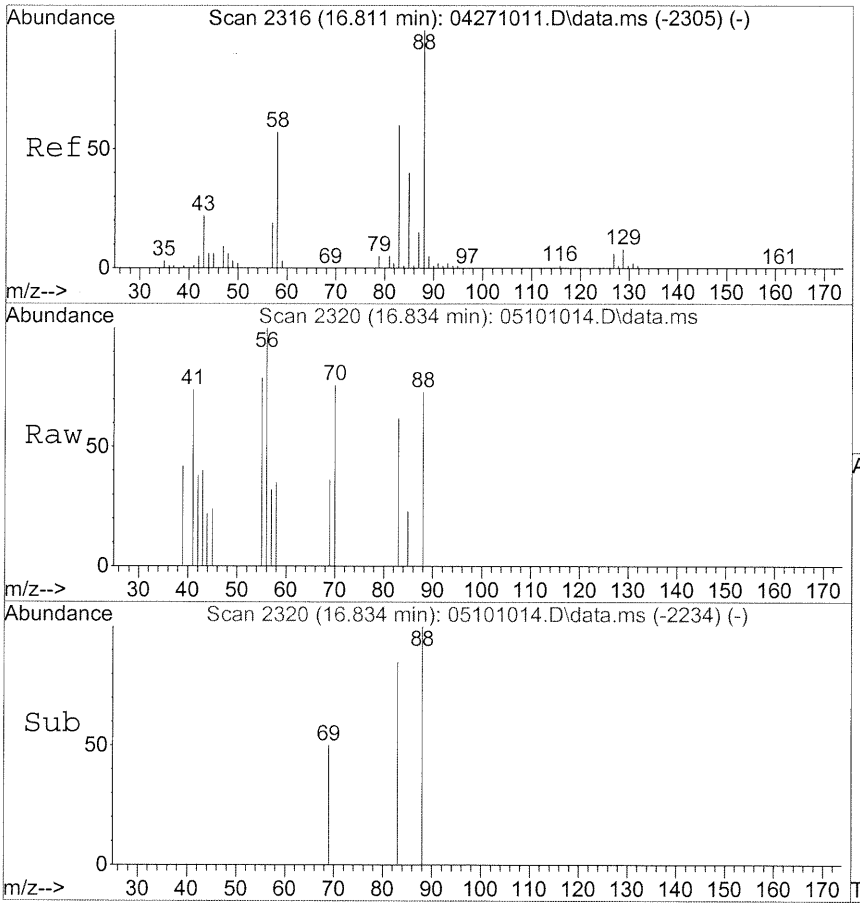


#46
Bromodichloromethane
Concen: 3.09 ng
RT: 16.78 min Scan# 2311
Delta R.T. 0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 83 Resp: 97383

Ion	Ratio	Lower	Upper
83	100		
85	63.5	42.8	82.8

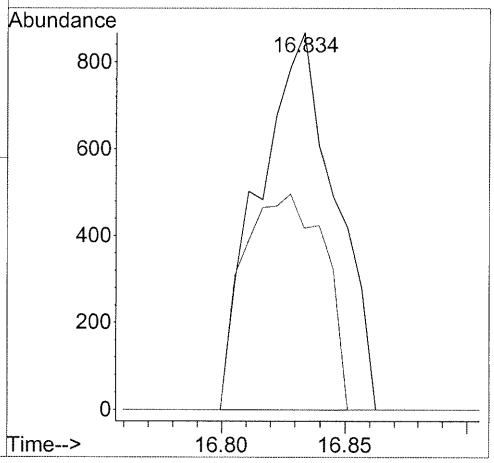


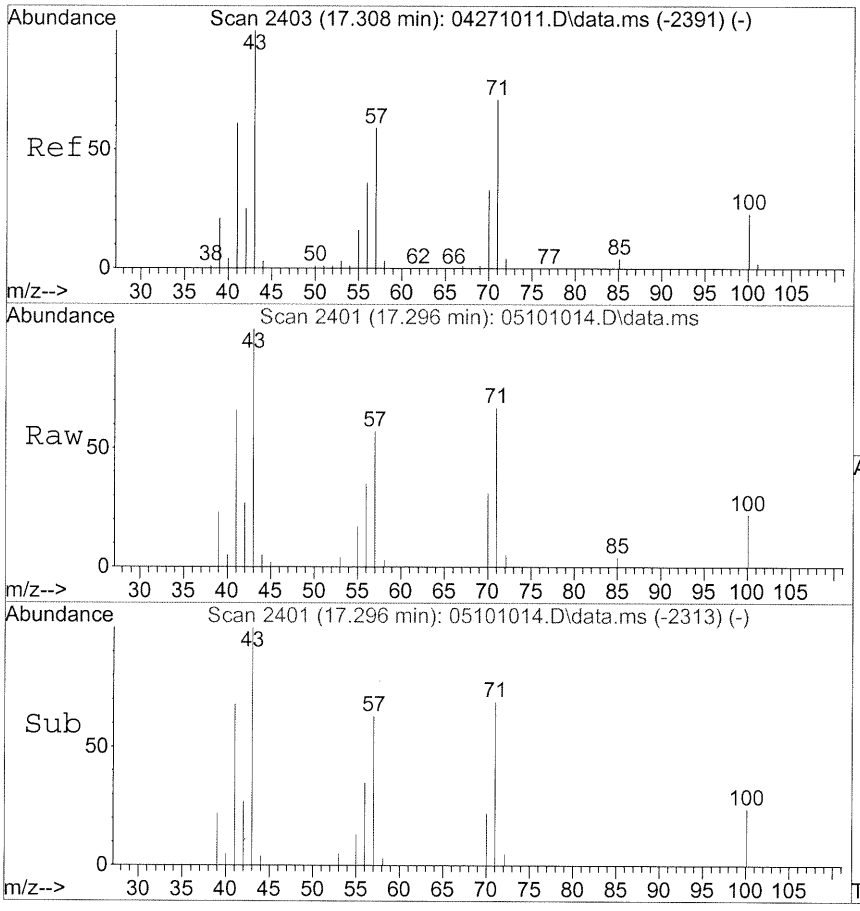


#48
1,4-Dioxane
Concen: 0.09 ng
RT: 16.83 min Scan# 2320
Delta R.T. -0.011 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 88 Resp: 1851

Ion	Ratio	Lower	Upper
88	100		
58	60.9	52.5	92.5

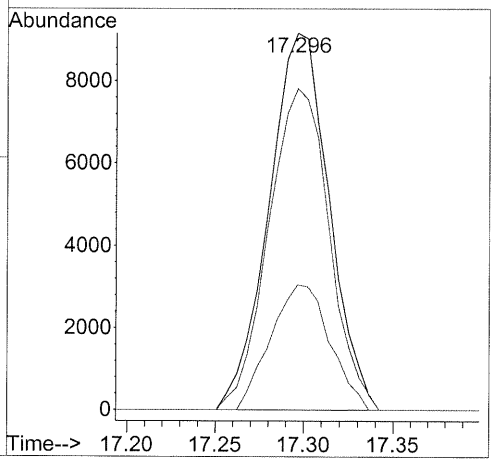


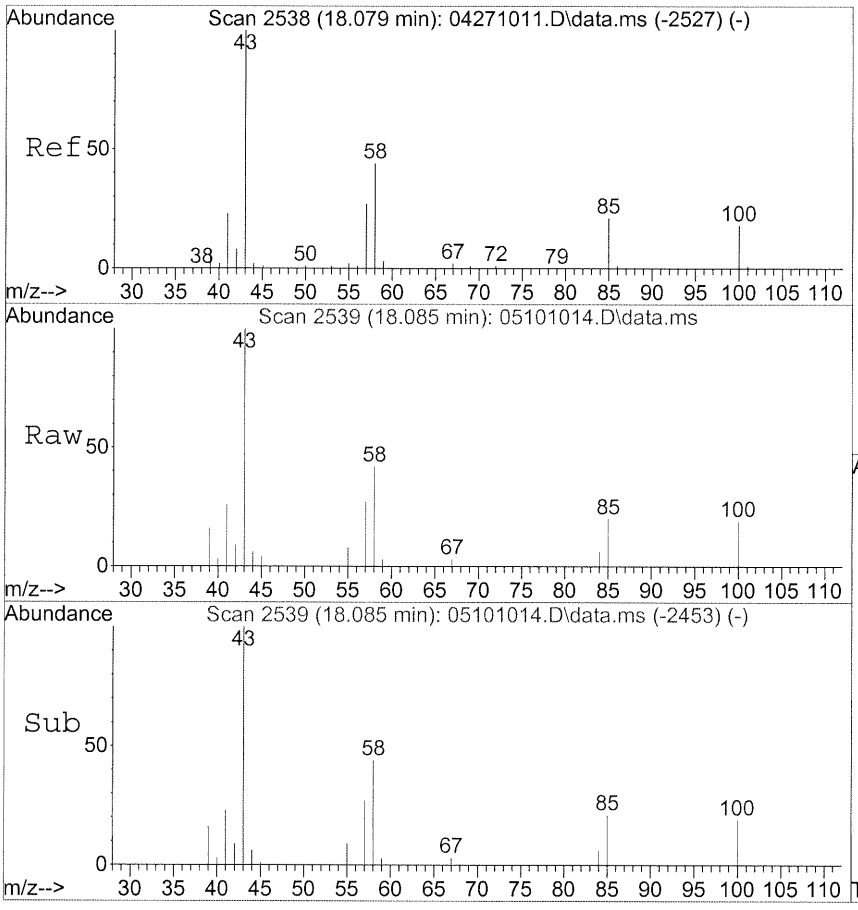


#51
n-Heptane
Concen: 0.86 ng
RT: 17.30 min Scan# 2401
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 71 Resp: 21546

Ion	Ratio	Lower	Upper
71	100		
57	85.6	74.9	114.9
100	32.7	5.0	45.0

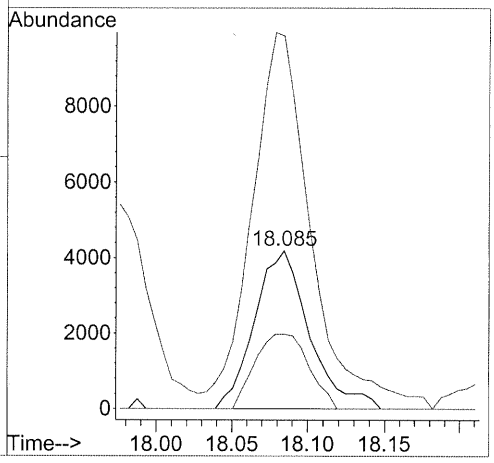


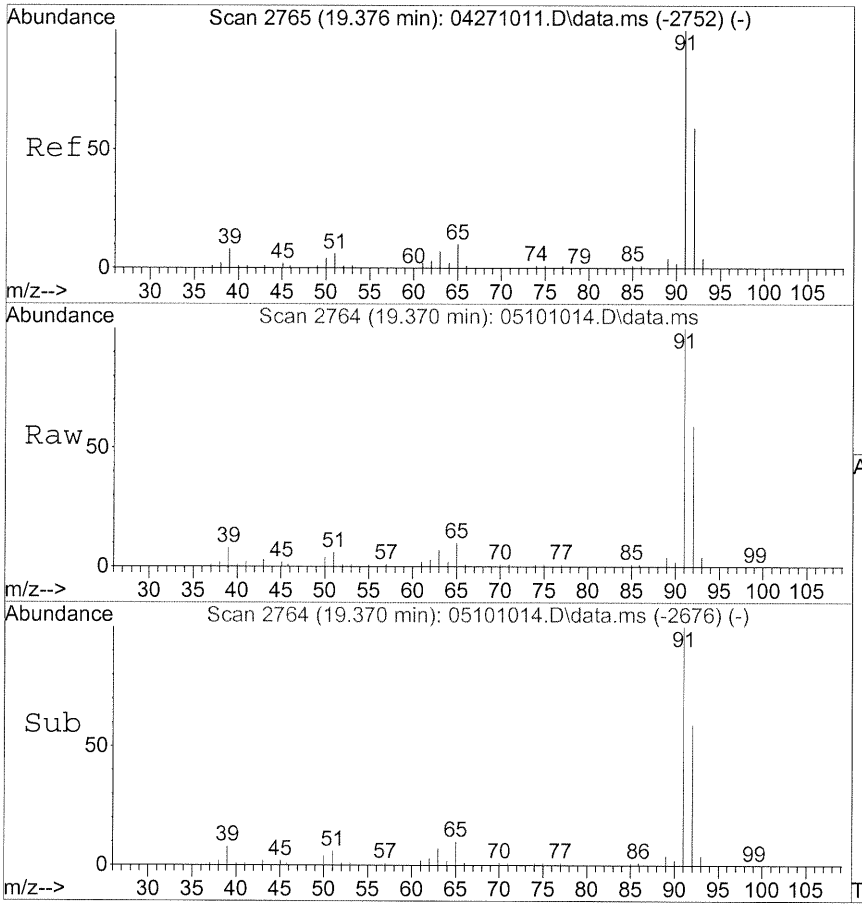


#53
4-Methyl-2-pentanone
Concen: 0.53 ng
RT: 18.08 min Scan# 2539
Delta R.T. -0.011 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 58 Resp: 10497

Ion	Ratio	Lower	Upper
58	100		
43	257.3	207.1	310.7
85	46.0	31.4	47.2

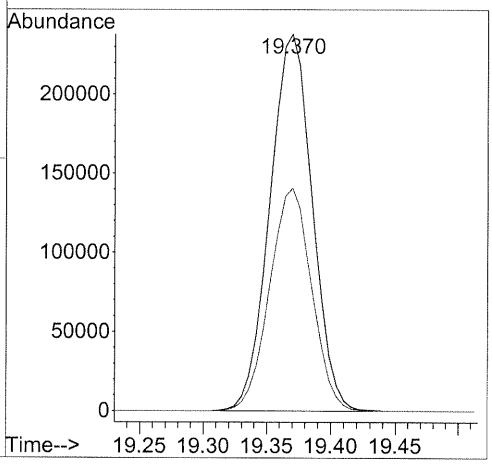


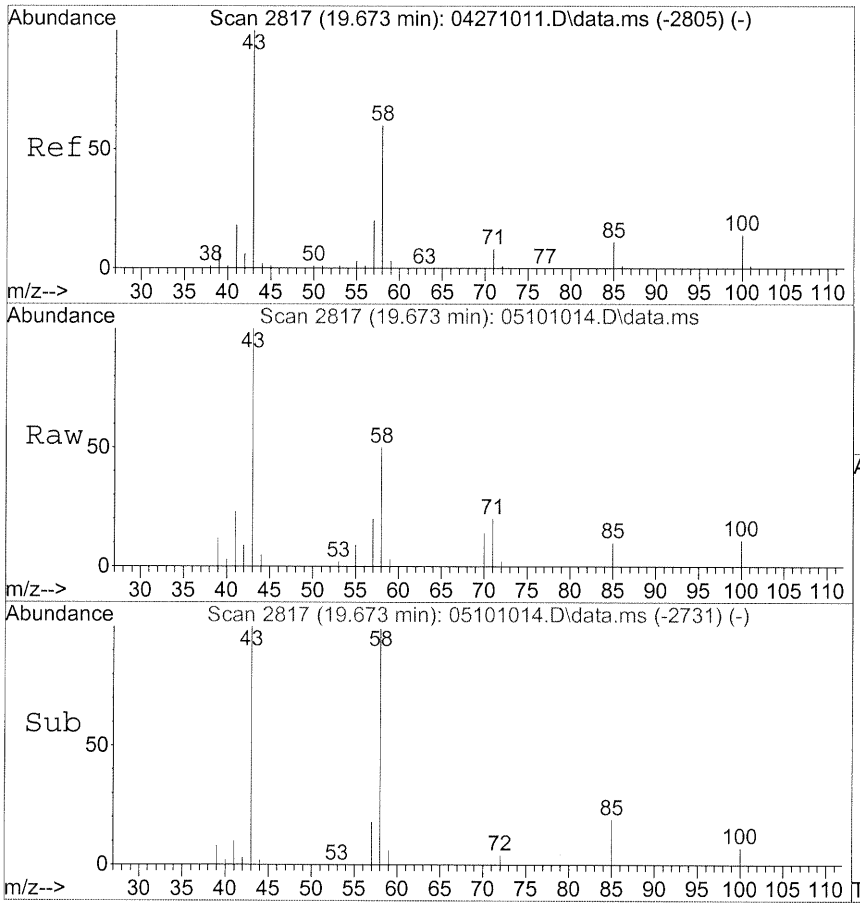


#58
Toluene
Concen: 4.96 ng
RT: 19.37 min Scan# 2764
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 91 Resp: 548628

Ion	Ratio	Lower	Upper
91	100		
92	58.6	37.6	77.6

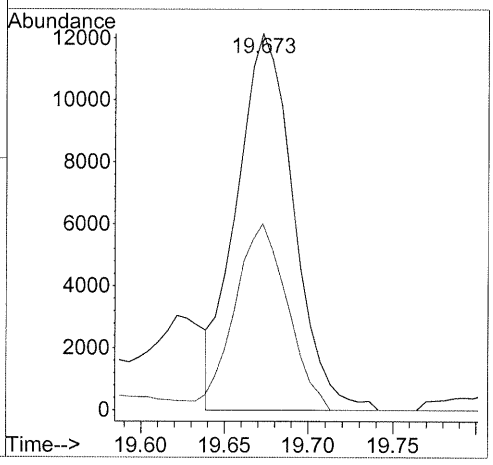


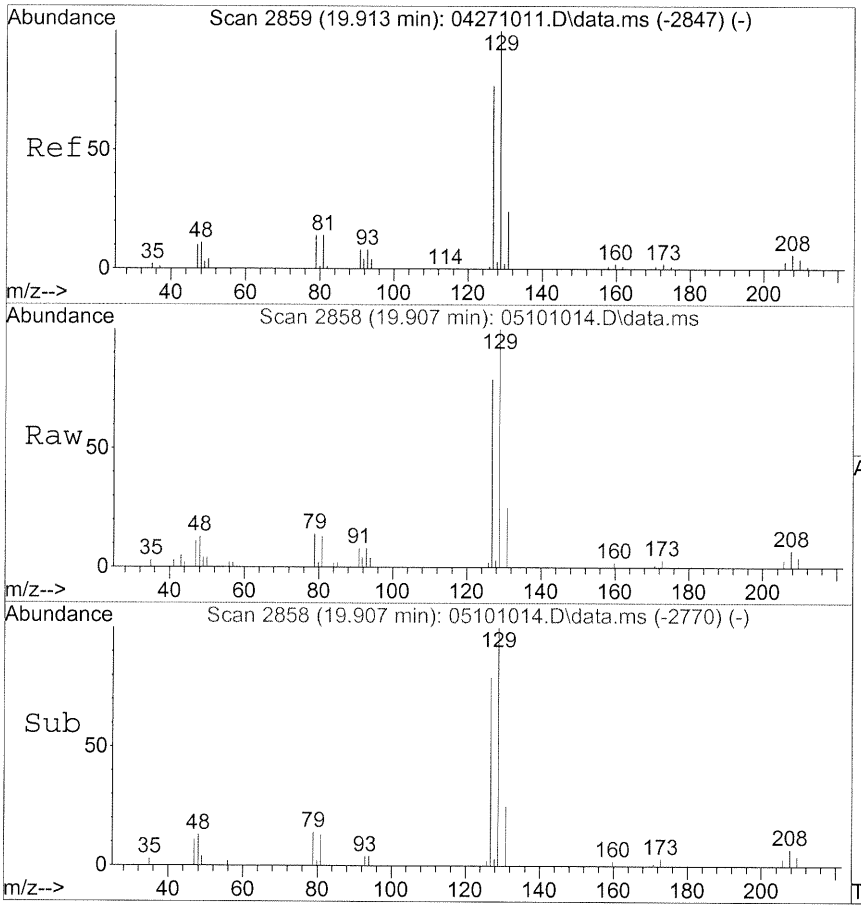


#59
2-Hexanone
Concen: 0.62 ng
RT: 19.67 min Scan# 2817
Delta R.T. -0.011 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 43 Resp: 29007

Ion	Ratio	Lower	Upper
43	100		
58	45.9	33.3	73.3

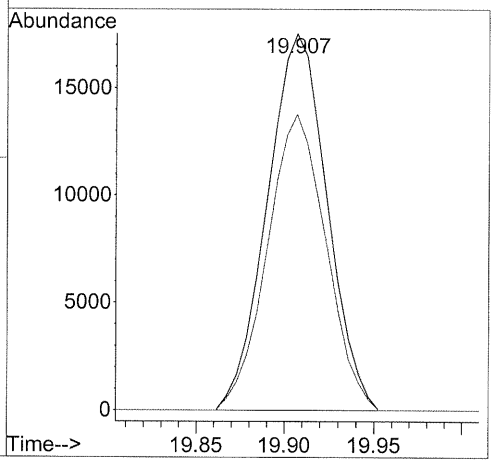


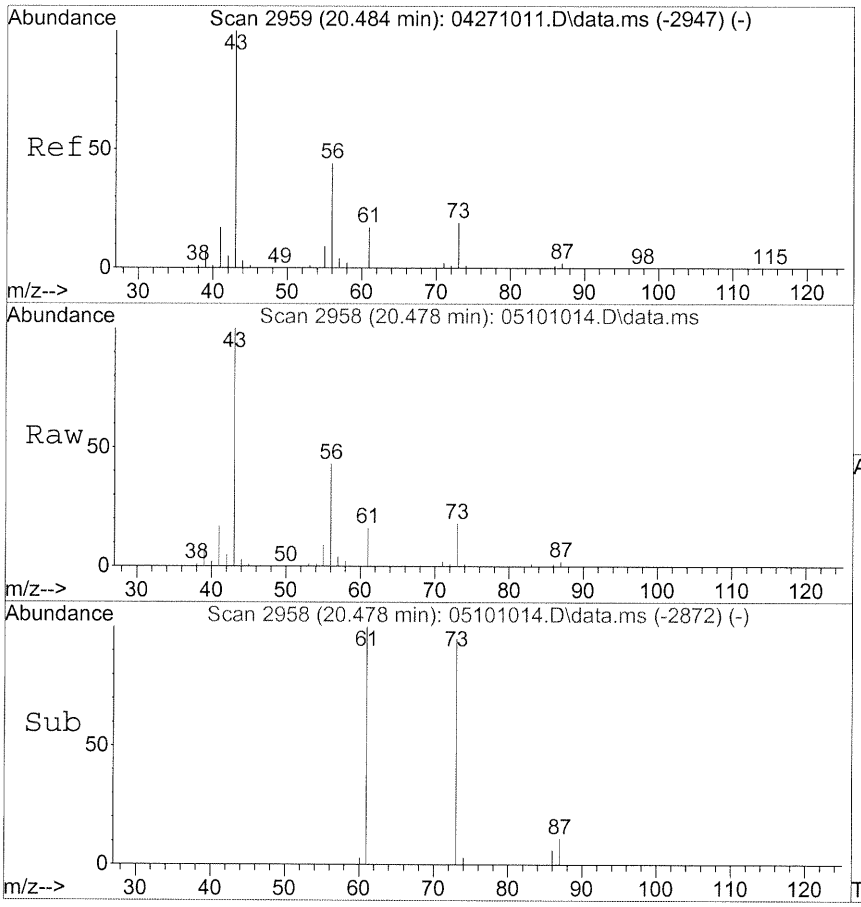


#60
Dibromochloromethane
Concen: 1.54 ng
RT: 19.91 min Scan# 2858
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:129 Resp: 40852

Ion	Ratio	Lower	Upper
129	100		
127	77.2	57.2	97.2

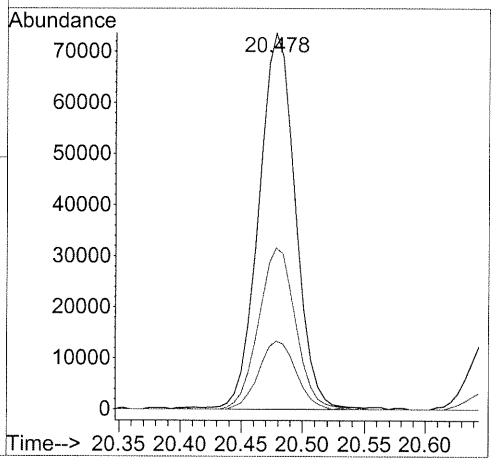


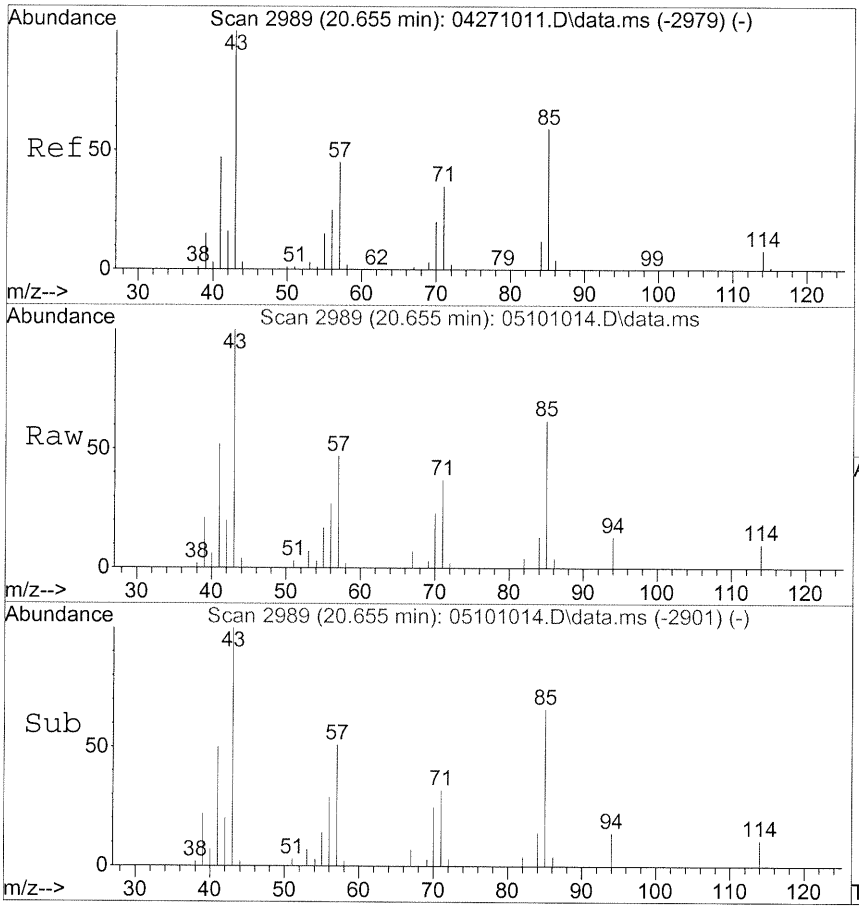


#62
n-Butyl Acetate
Concen: 2.87 ng
RT: 20.48 min Scan# 2958
Delta R.T. -0.011 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 43 Resp: 153554

Ion	Ratio	Lower	Upper
43	100		
56	43.3	19.7	59.7
73	18.5	0.0	34.2

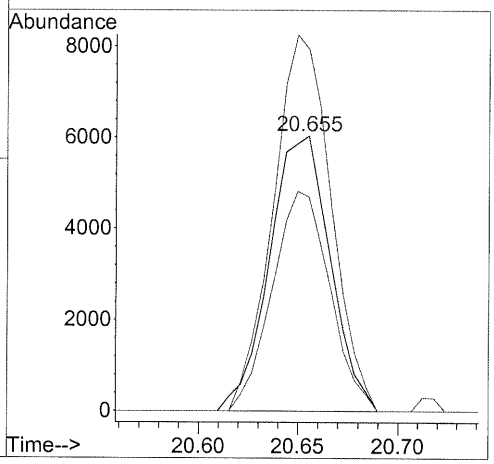


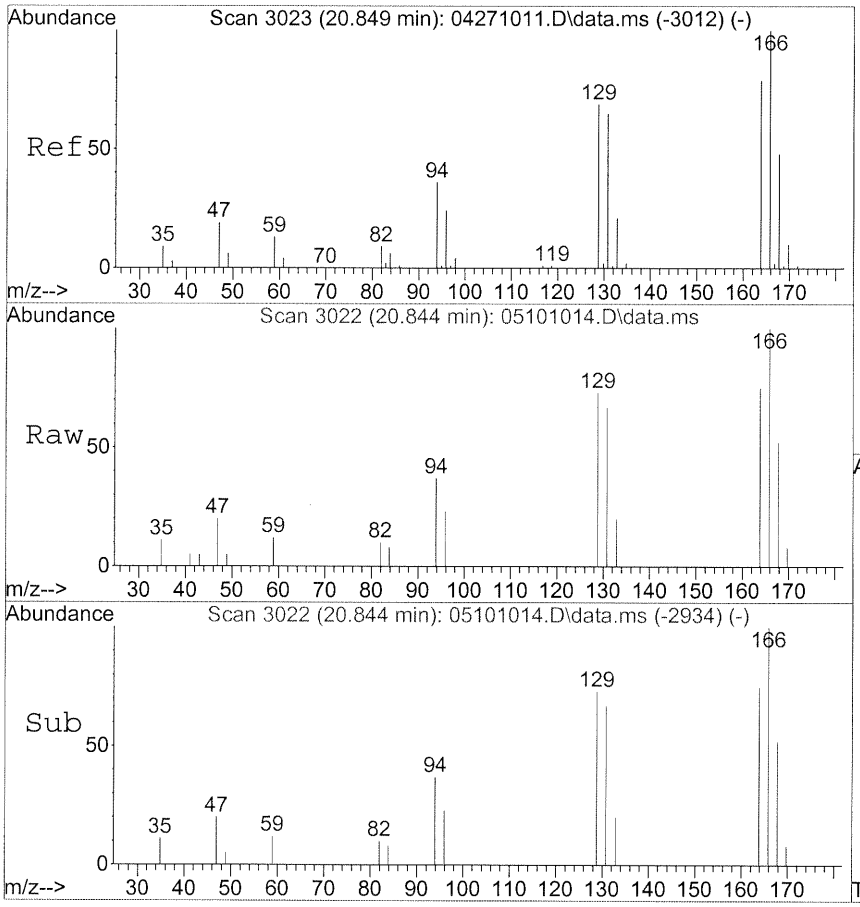


#63
n-Octane
Concen: 0.64 ng
RT: 20.66 min Scan# 2989
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 57 Resp: 12717

Ion	Ratio	Lower	Upper
57	100		
85	130.9	81.8	122.8#
71	76.0	55.0	82.6

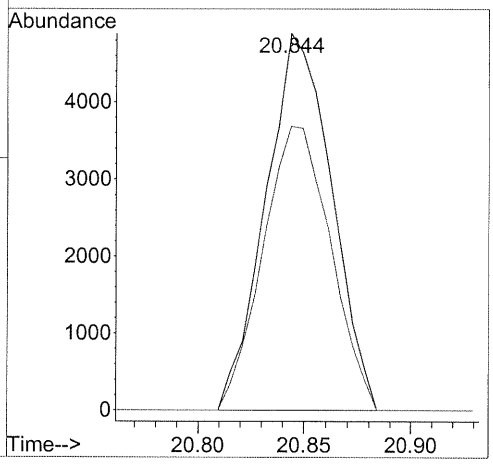


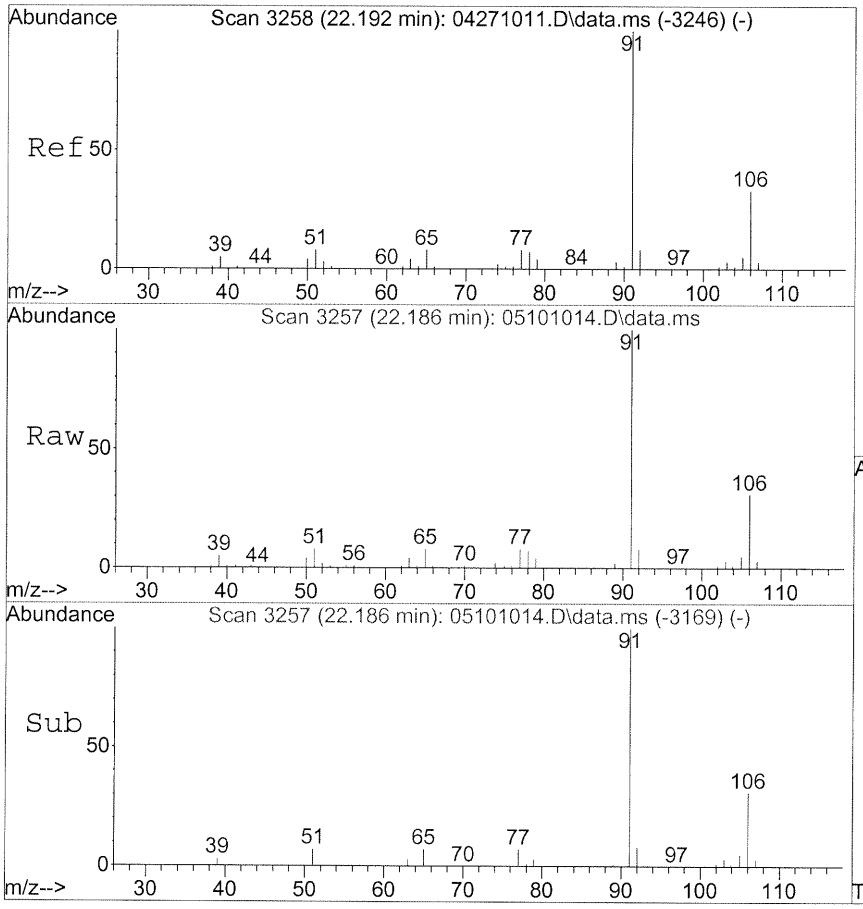


#64
Tetrachloroethene
Concen: 0.30 ng
RT: 20.84 min Scan# 3022
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:166 Resp: 10459

Ion	Ratio	Lower	Upper
166	100		
164	77.4	58.4	98.4

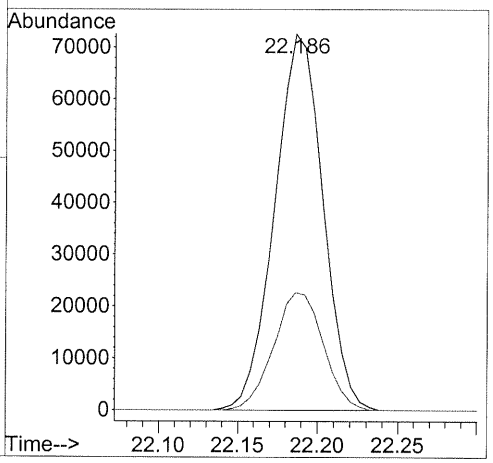


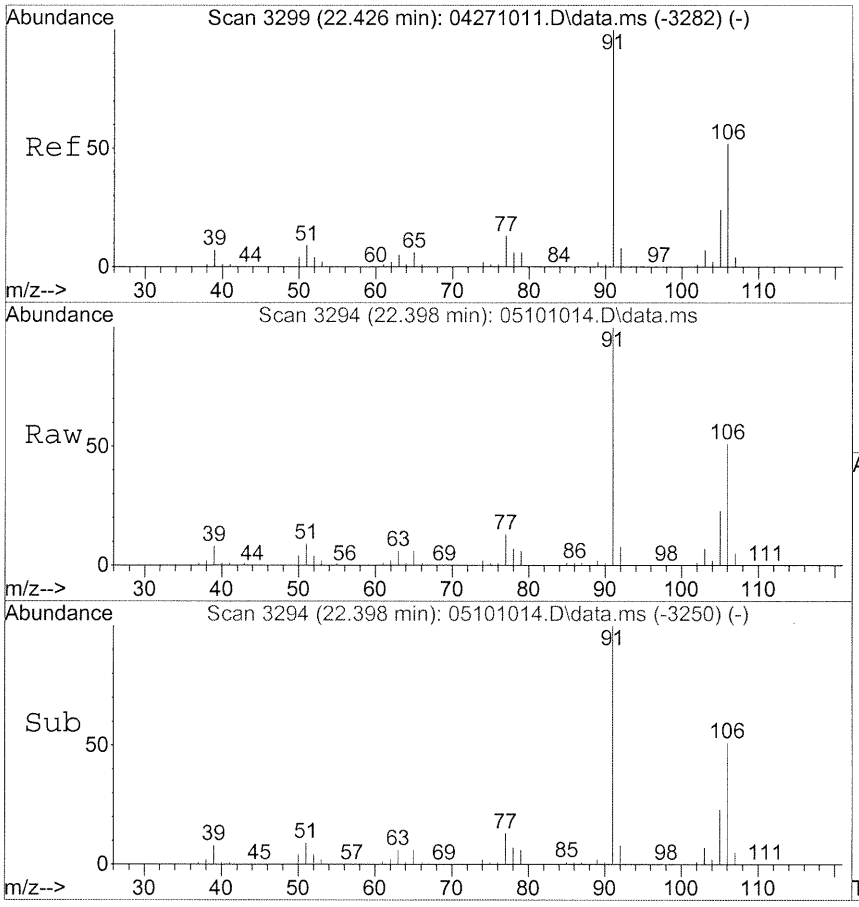


#66
Ethylbenzene
Concen: 1.25 ng
RT: 22.19 min Scan# 3257
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 91 Resp: 151698

Ion	Ratio	Lower	Upper
91	100		
106	32.1	9.8	49.8

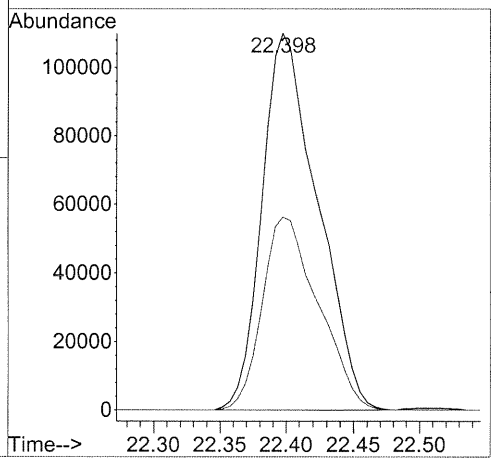


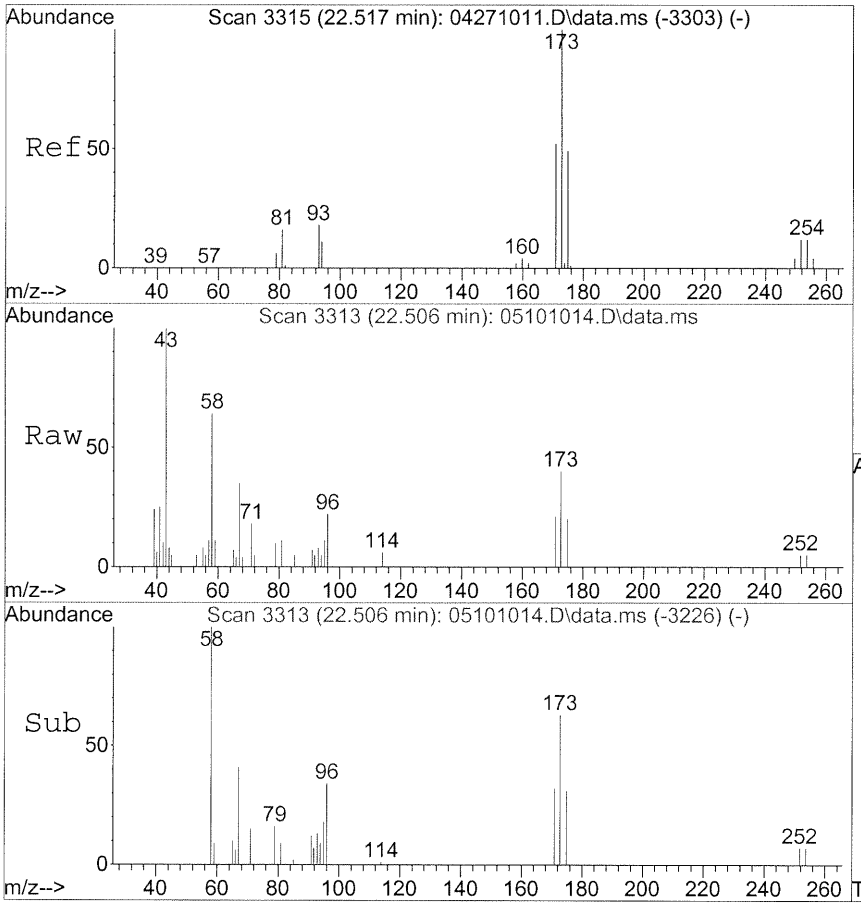


#67
m- & p-Xylenes
Concen: 3.32 ng
RT: 22.40 min Scan# 3294
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 91 Resp: 318000

Ion	Ratio	Lower	Upper
91	100		
106	51.6	26.8	66.8

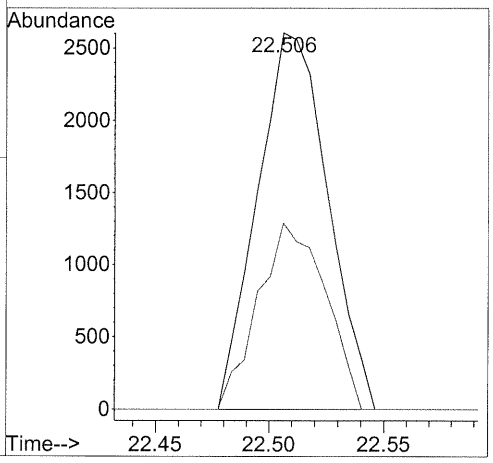


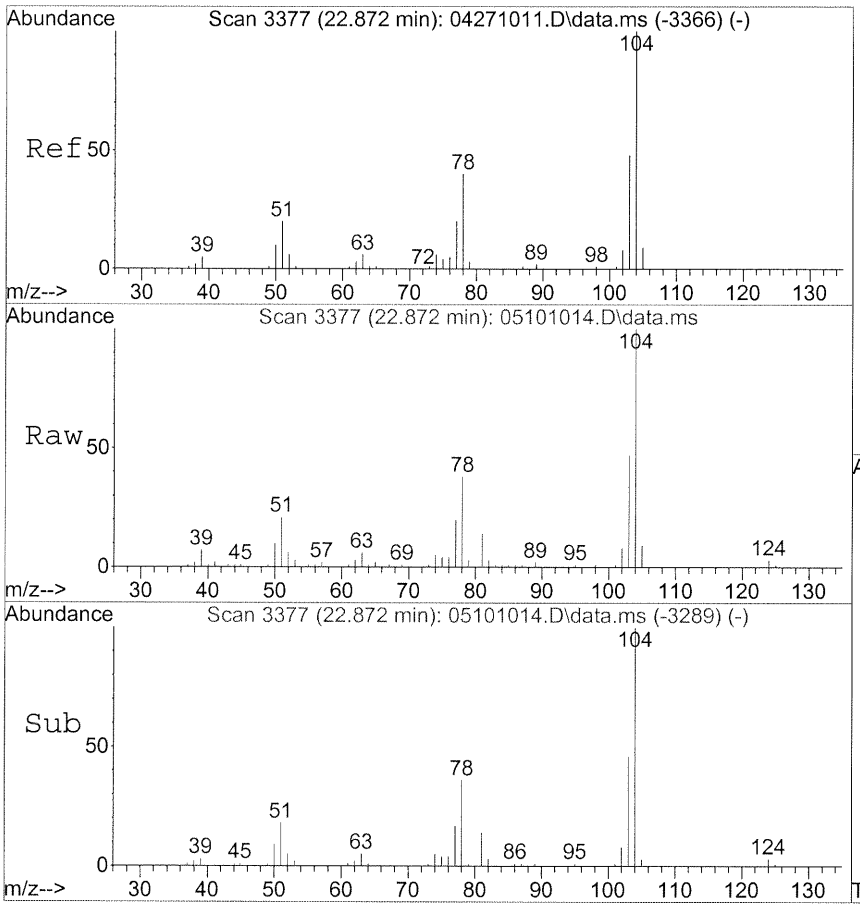


#68
Bromoform
Concen: 0.22 ng
RT: 22.51 min Scan# 3313
Delta R.T. -0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:173 Resp: 5572

Ion	Ratio	Lower	Upper
173	100		
175	47.2	28.5	68.5

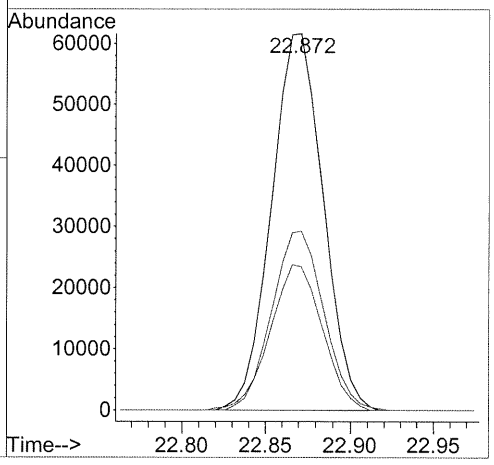


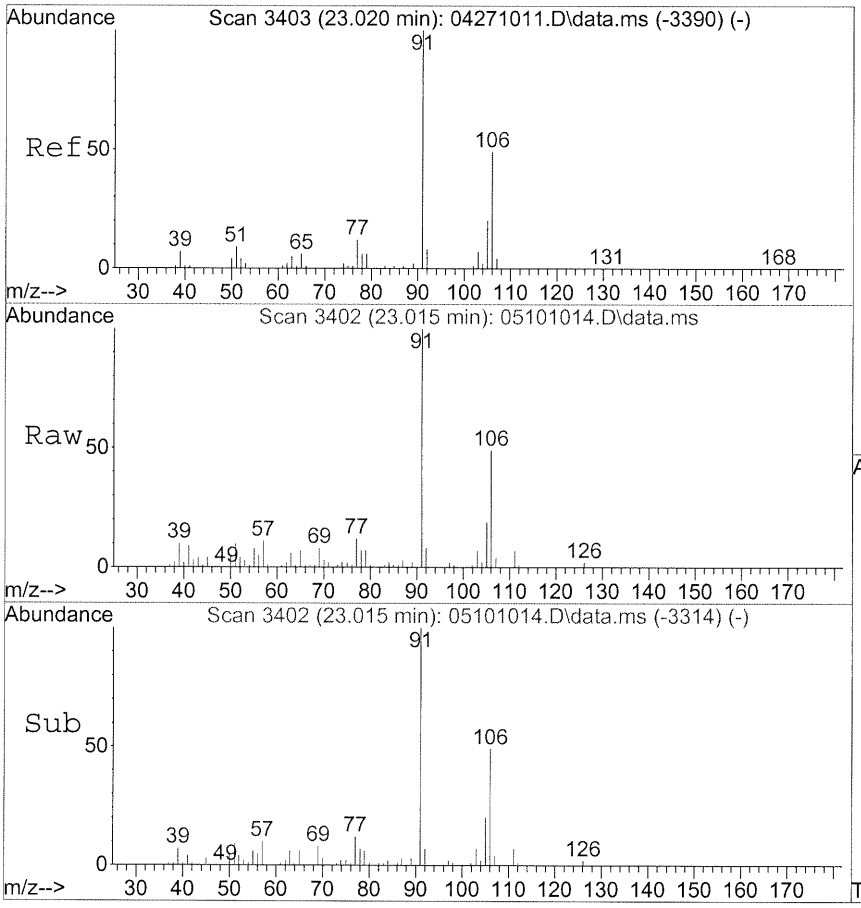


#69
Styrene
Concen: 1.73 ng
RT: 22.87 min Scan# 3377
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:104 Resp: 130625

Ion	Ratio	Lower	Upper
104	100		
78	38.6	26.1	66.1
103	48.2	28.7	68.7

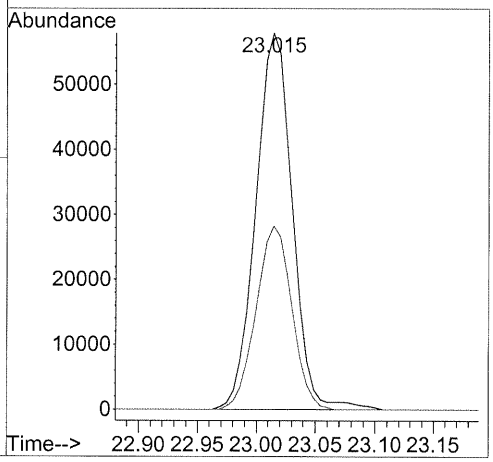


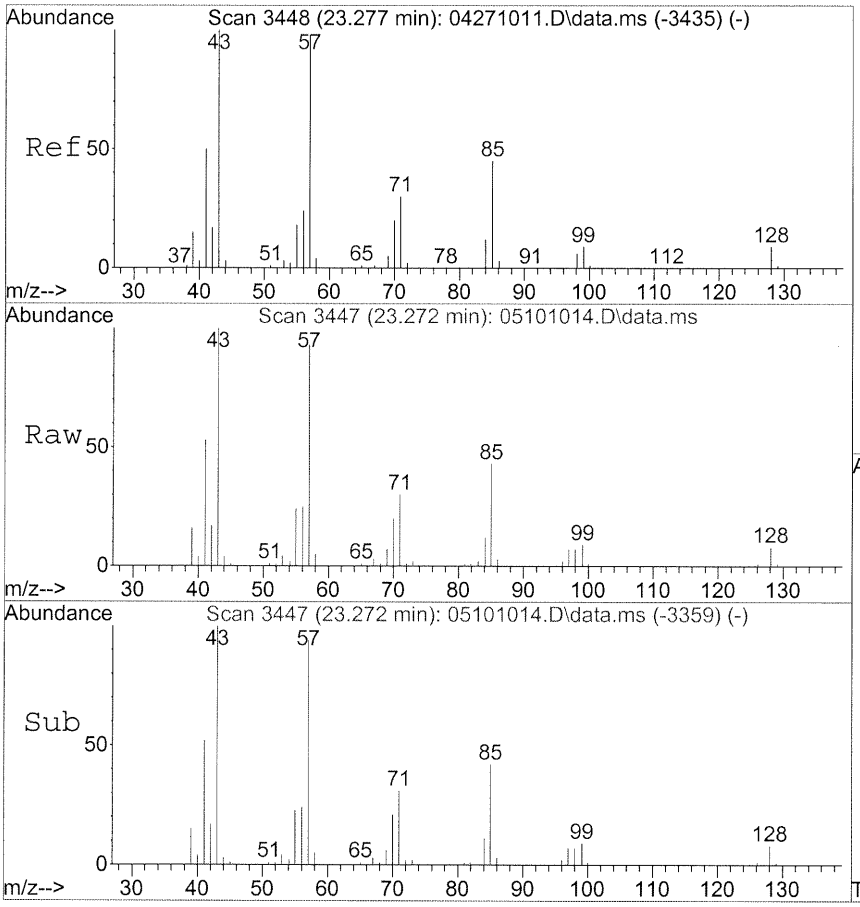


#70
o-Xylene
Concen: 1.28 ng
RT: 23.01 min Scan# 3402
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 91 Resp: 124995

Ion	Ratio	Lower	Upper
91	100		
106	47.7	24.4	64.4

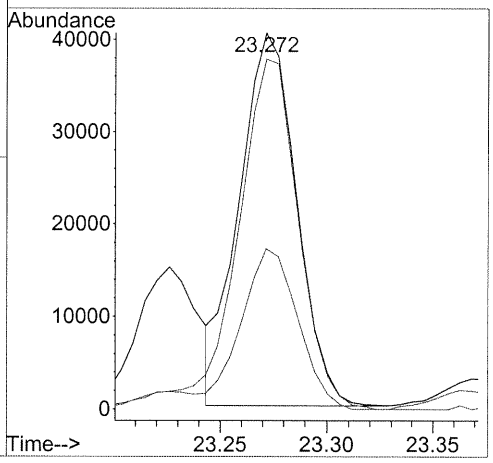


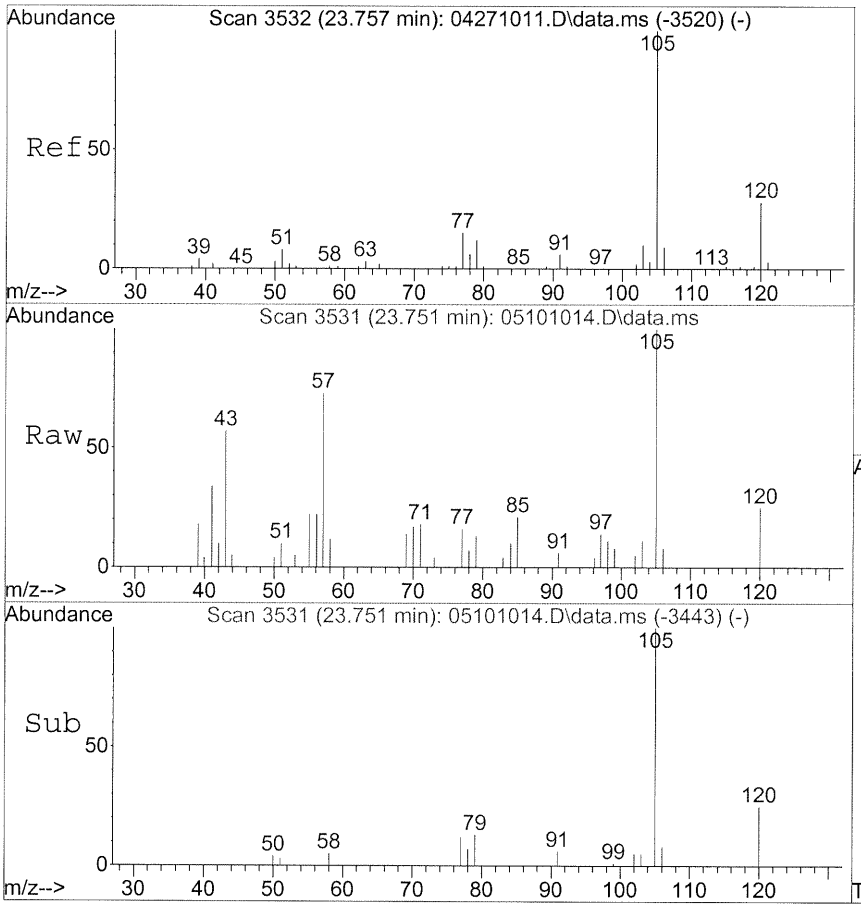


#71
n-Nonane
Concen: 1.78 ng
RT: 23.27 min Scan# 3447
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 43 Resp: 76018

Ion	Ratio	Lower	Upper
43	100		
57	100.5	65.6	105.6
85	42.8	9.9	49.9

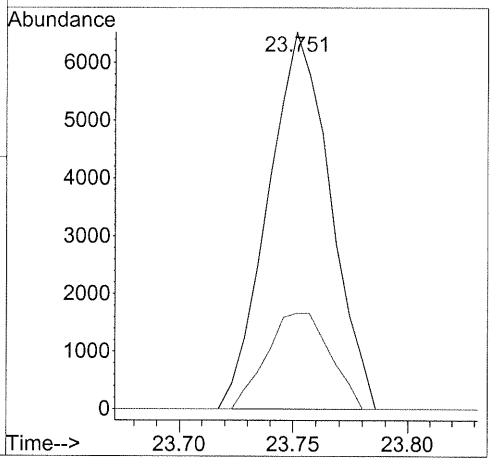


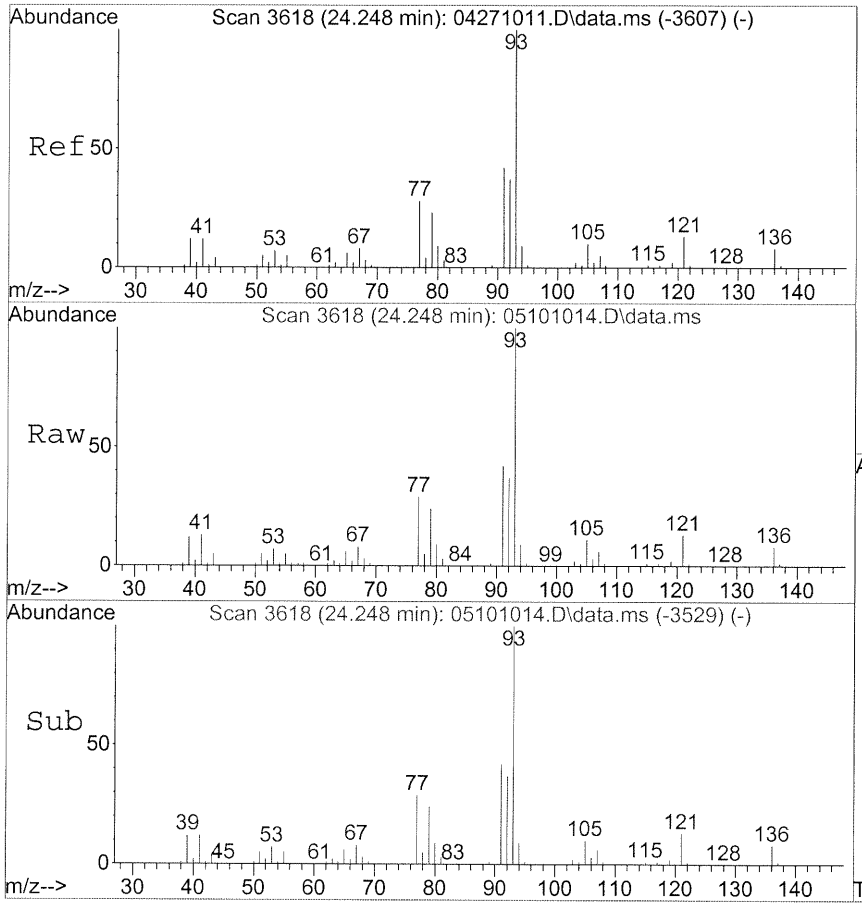


#74
Cumene
Concen: 0.09 ng
RT: 23.75 min Scan# 3531
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:105 Resp: 12336

Ion	Ratio	Lower	Upper
105	100		
120	26.0	5.2	45.2

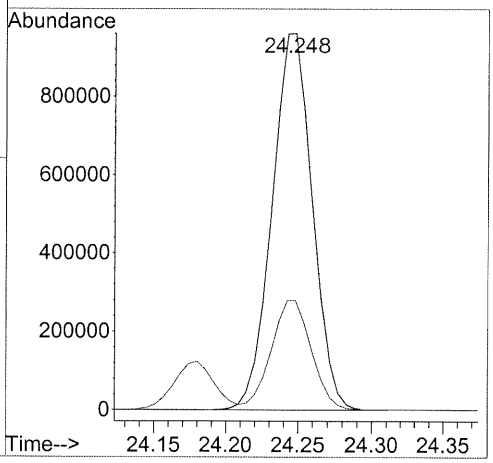


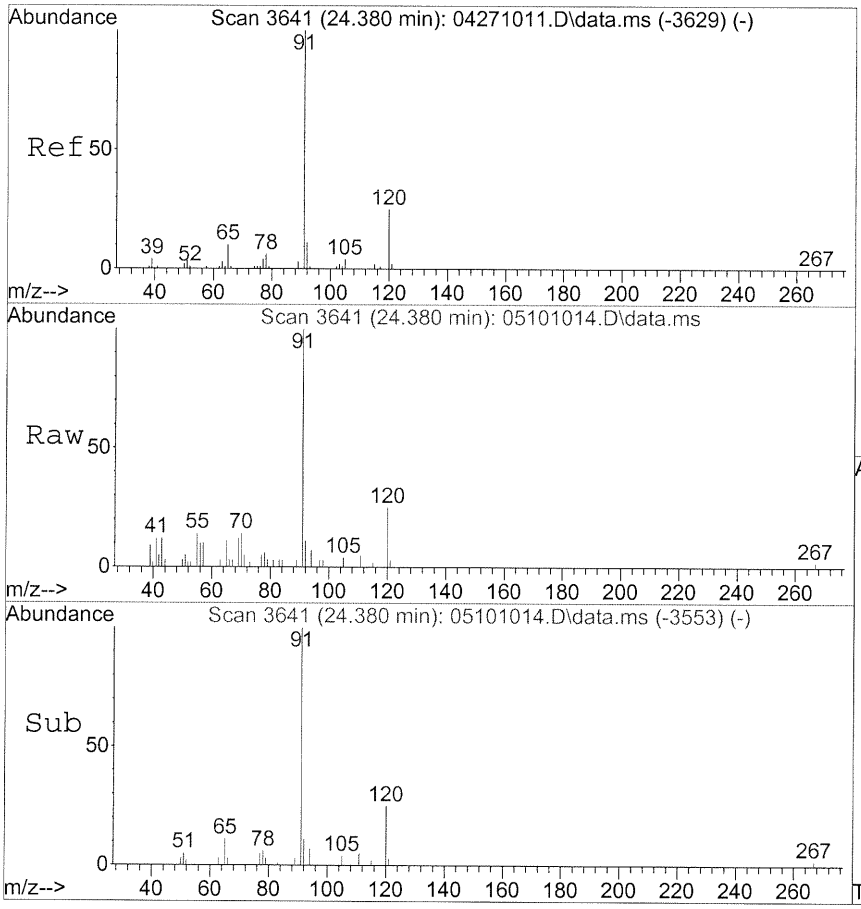


#75
alpha-Pinene
Concen: 29.87 ng
RT: 24.25 min Scan# 3618
Delta R.T. 0.006 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 93 Resp: 1851087

Ion	Ratio	Lower	Upper
93	100		
77	28.9	12.3	52.3

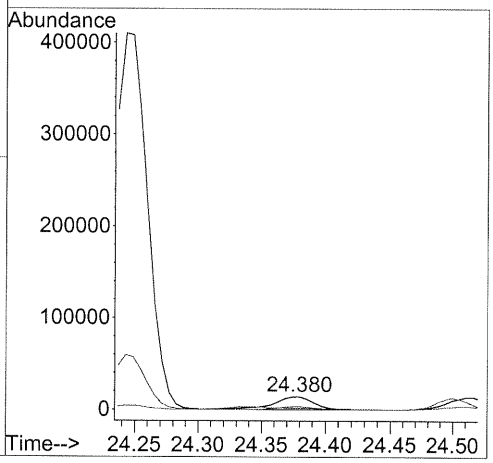


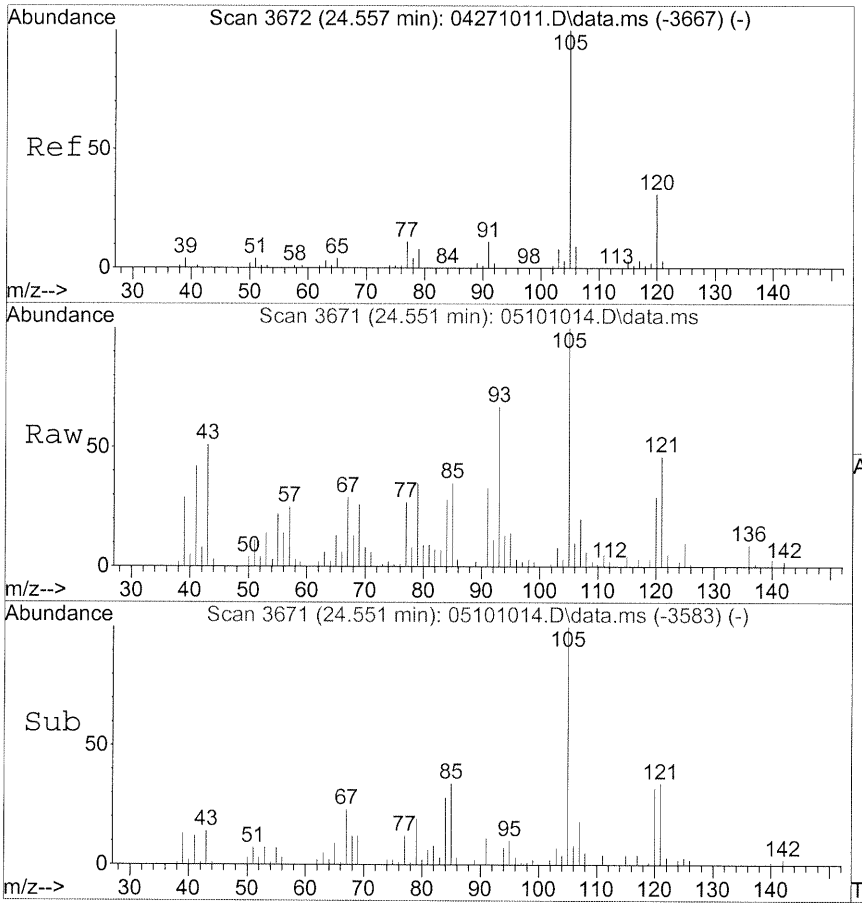


#76
n-Propylbenzene
Concen: 0.20 ng
RT: 24.38 min Scan# 3641
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 91 Resp: 31357

Ion	Ratio	Lower	Upper
91	100		
120	20.0	0.9	40.9
65	0.0	0.0	31.2

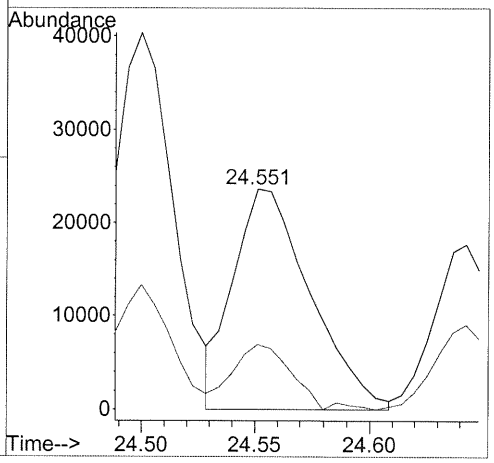


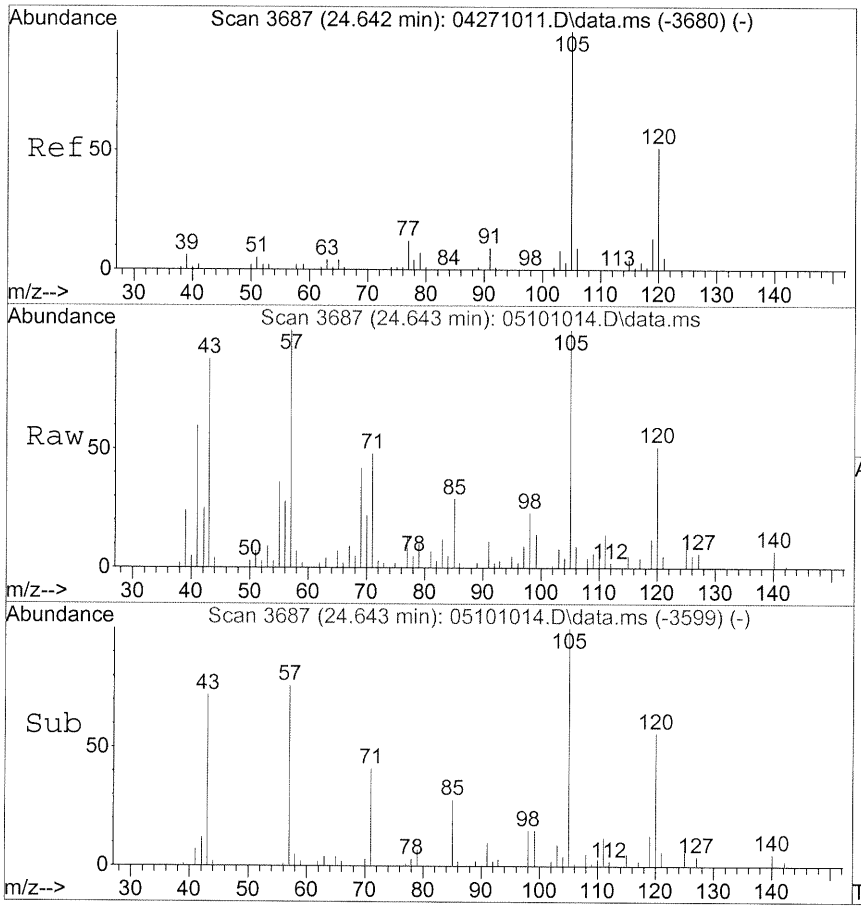


#78
4-Ethyltoluene
Concen: 0.45 ng
RT: 24.55 min Scan# 3671
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:105 Resp: 55289

Ion	Ratio	Lower	Upper
105	100		
120	22.8	8.2	48.2

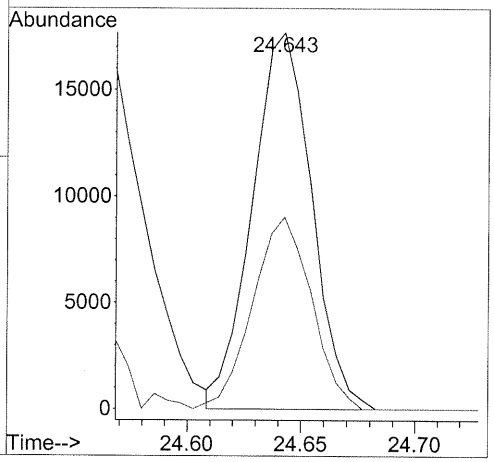


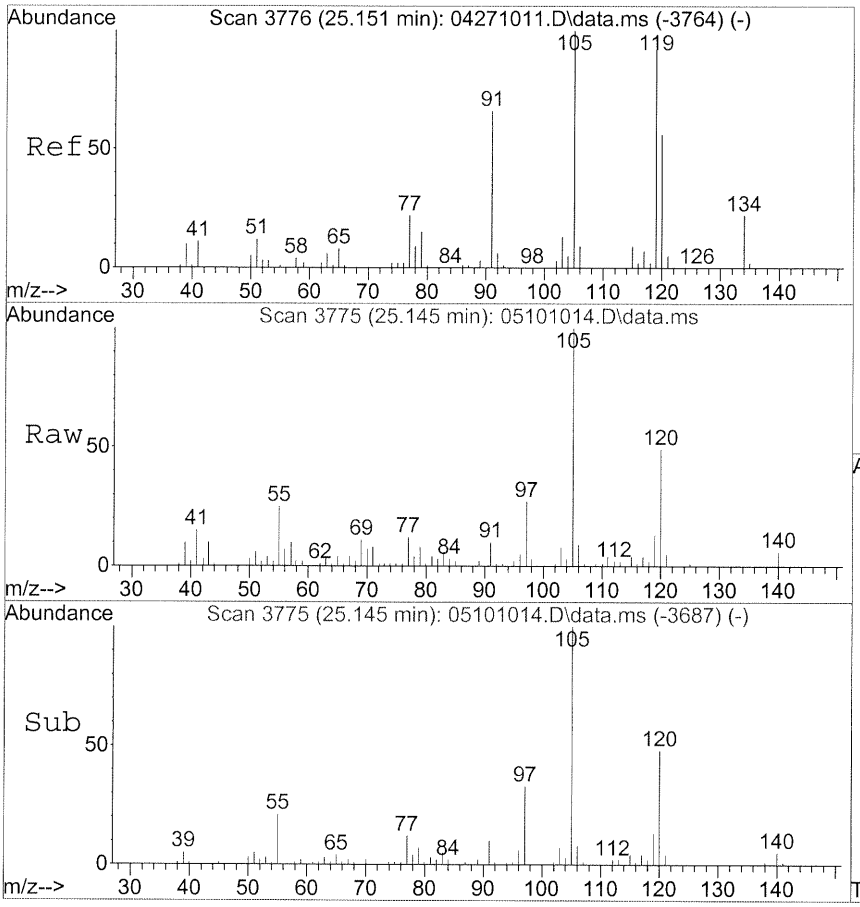


#79
1,3,5-Trimethylbenzene
Concen: 0.32 ng
RT: 24.64 min Scan# 3687
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:105 Resp: 32124

Ion	Ratio	Lower	Upper
105	100		
120	50.5	26.2	66.2

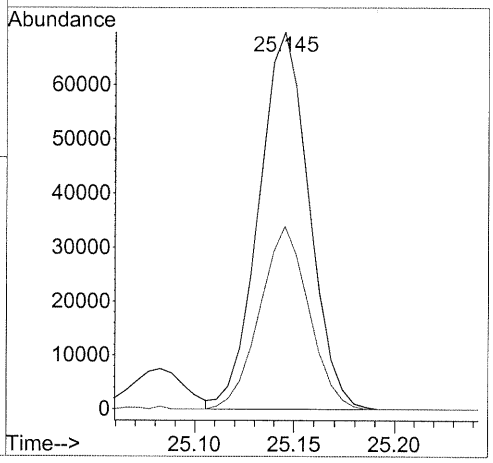


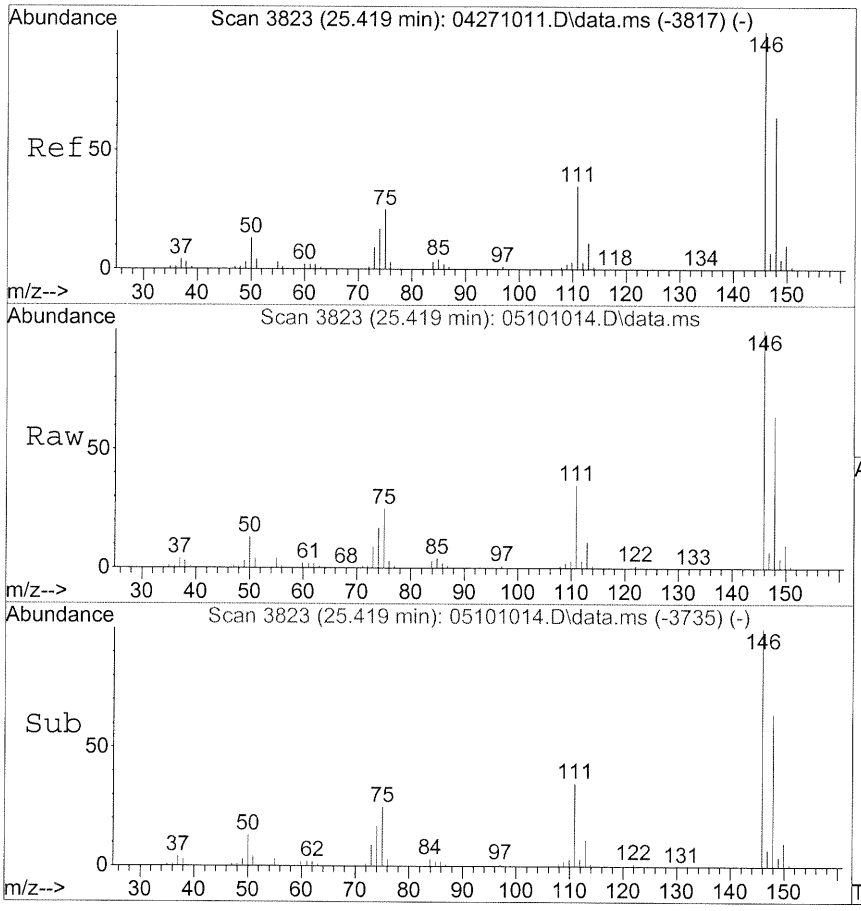


#82
1,2,4-Trimethylbenzene
Concen: 1.18 ng
RT: 25.15 min Scan# 3775
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:105 Resp: 122221

Ion	Ratio	Lower	Upper
105	100		
120	47.2	30.1	70.1

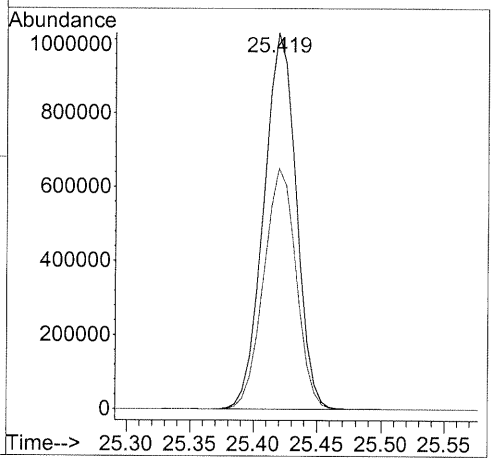


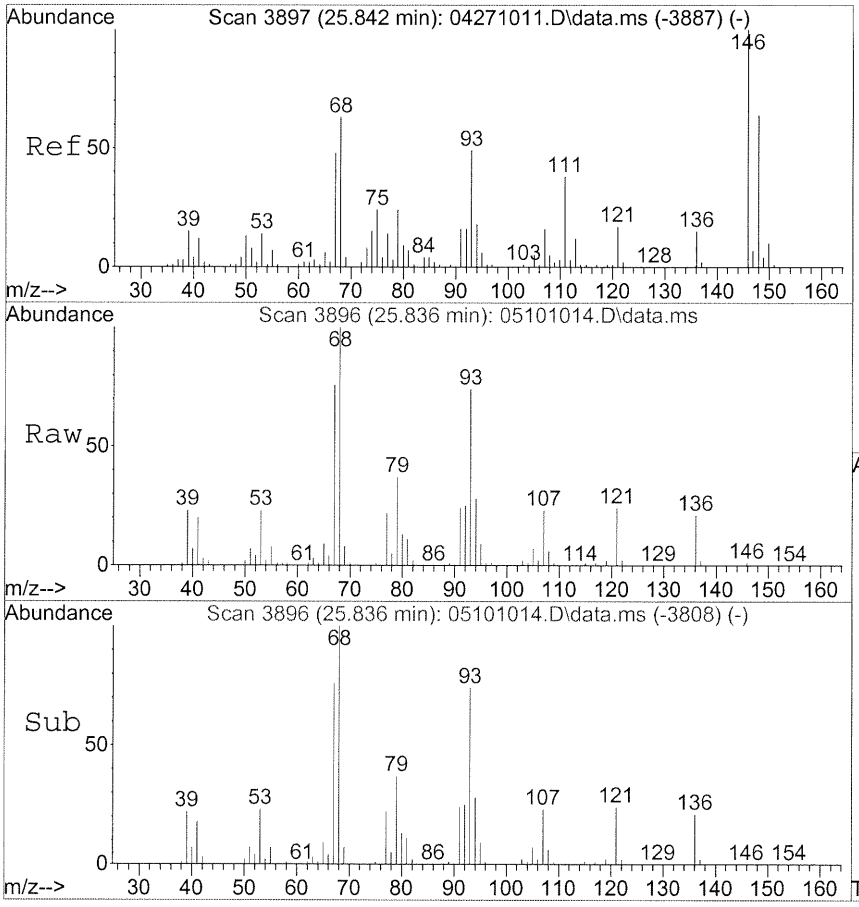


#86
1,4-Dichlorobenzene
Concen: 27.56 ng
RT: 25.42 min Scan# 3823
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:146 Resp: 1812059

Ion	Ratio	Lower	Upper
146	100		
148	64.0	43.8	83.8

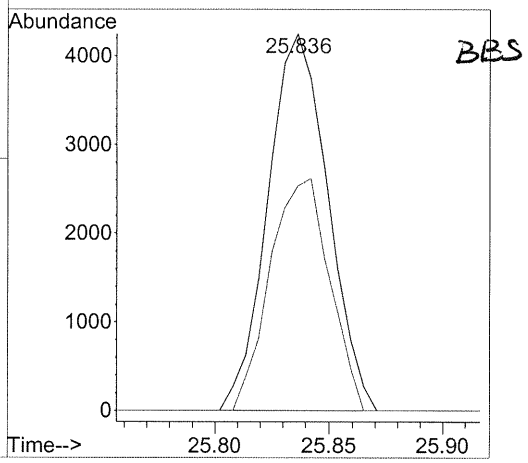


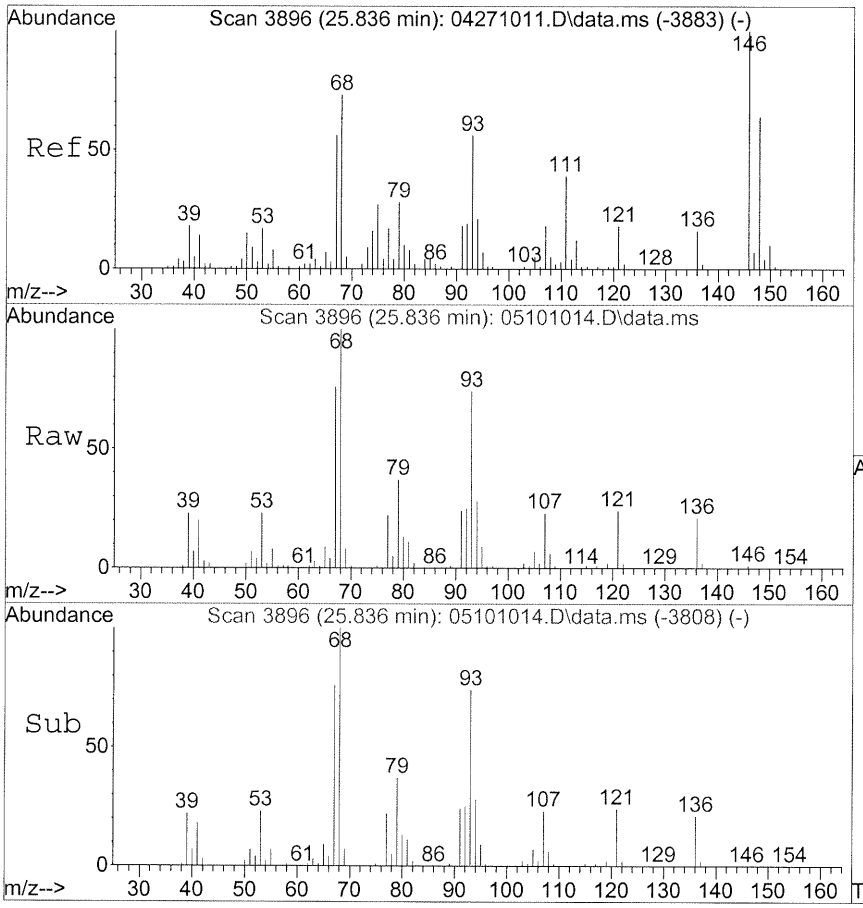


#90
1,2-Dichlorobenzene
Concen: 0.13 ng
RT: 25.84 min Scan# 3896
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:146 Resp: 7730

Ion	Ratio	Lower	Upper
146	100		
148	60.9	43.6	83.6

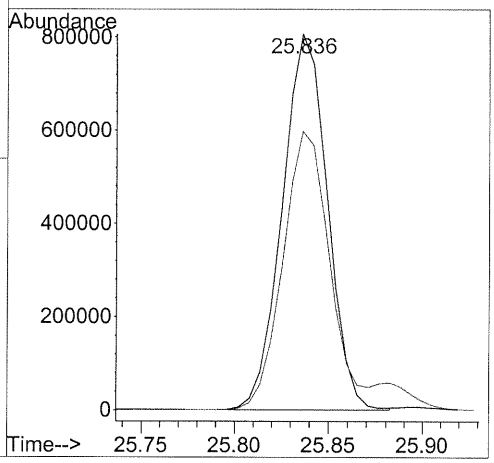




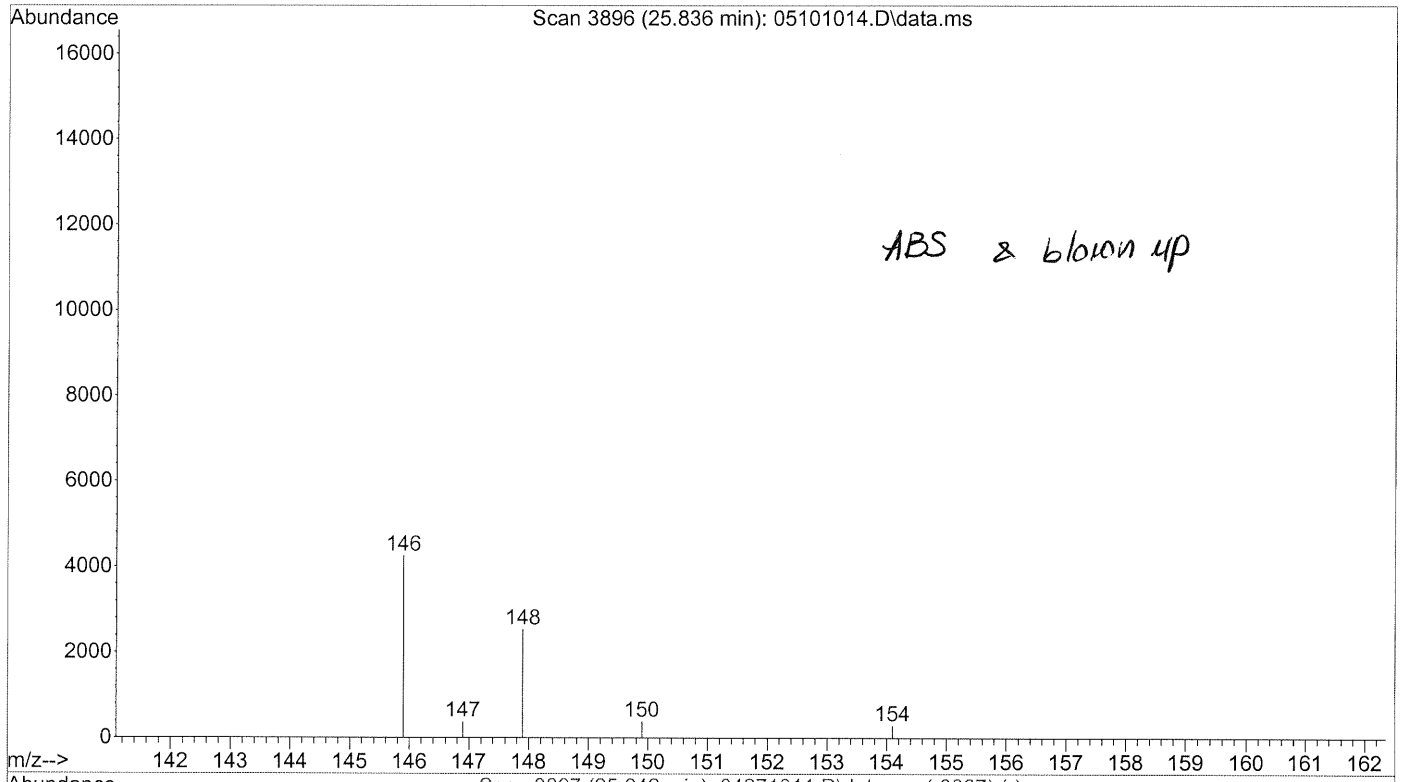
#91
d-Limonene
Concen: 37.10 ng
RT: 25.84 min Scan# 3896
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion: 68 Resp: 1339686

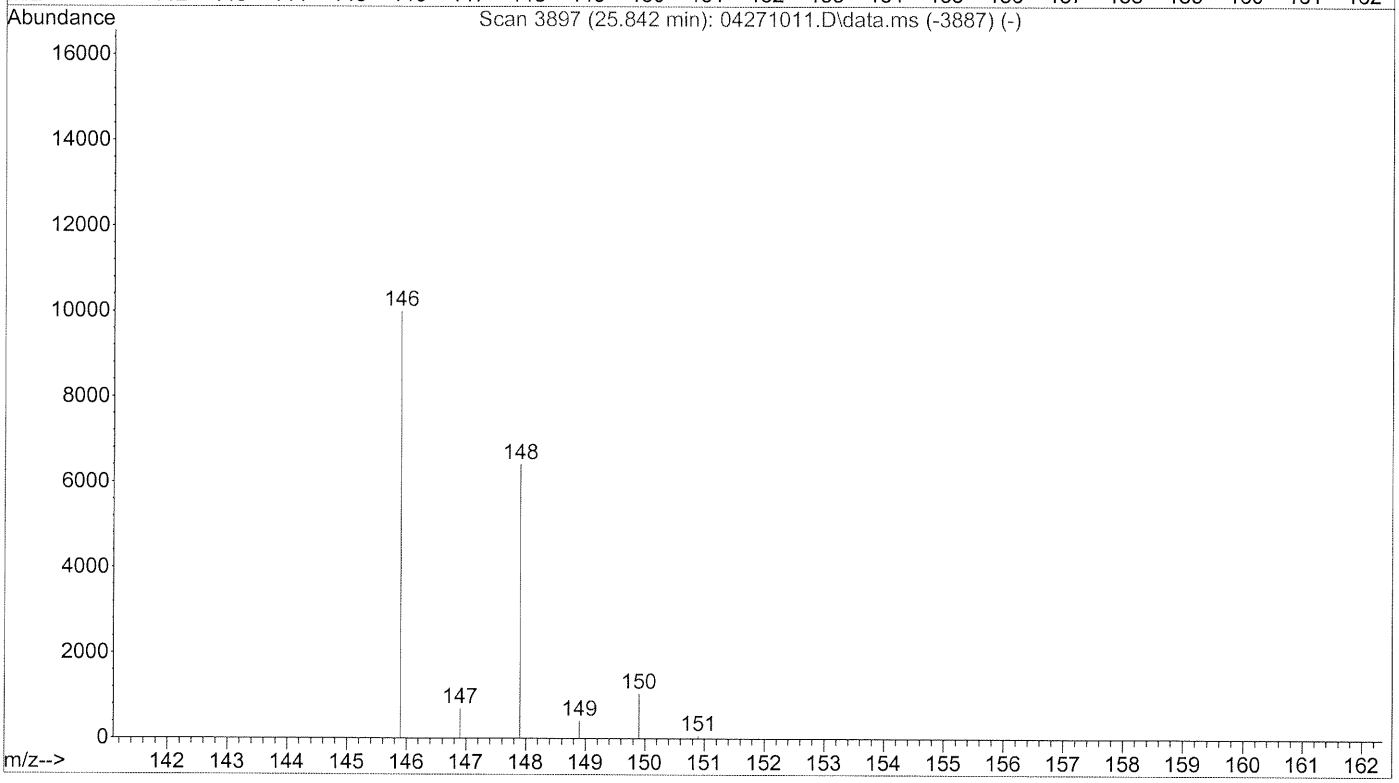
Ion	Ratio	Lower	Upper
68	100		
93	83.0	42.0	82.0#

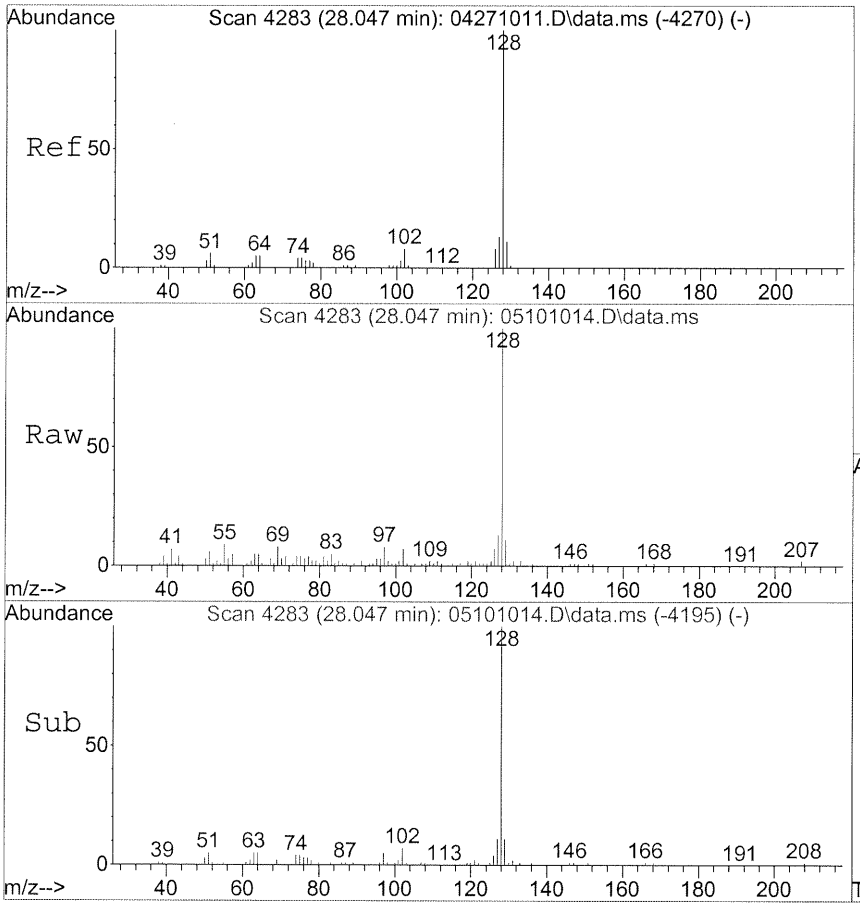


File :J:\MS09\Data\2010_05\10\05101014.D
Operator : WA
Acquired : 10 May 2010 21:30 using AcqMethod TO15LOW.M
Instrument : MS09
Sample Name: P1001603-002 (1000mL)
Misc Info :
Vial Number: 6



ABS & blown up

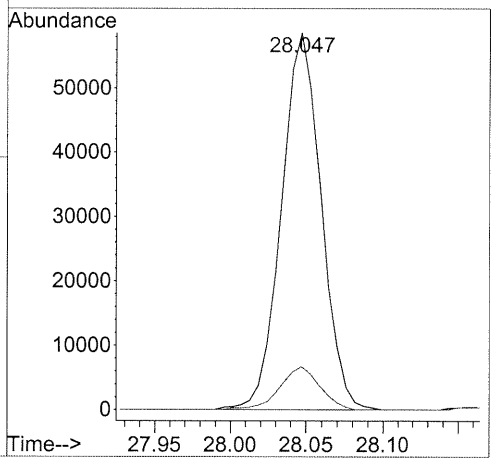




#95
Naphthalene
Concen: 0.80 ng
RT: 28.05 min Scan# 4283
Delta R.T. 0.000 min
Lab File: 05101014.D
Acq: 10 May 2010 21:30

Tgt Ion:128 Resp: 105284

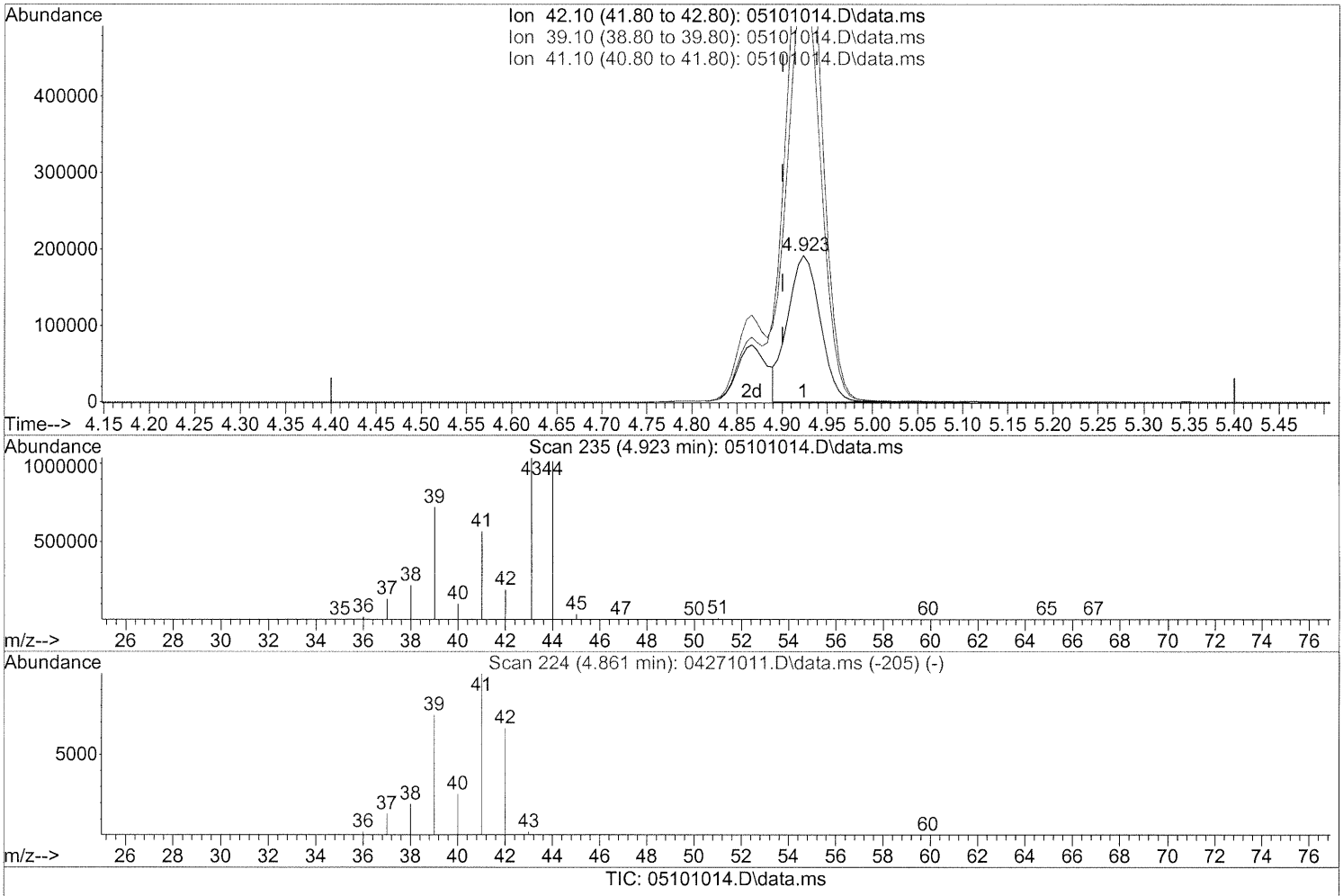
Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	31.1



Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



(2) Propene (T)

4.923min (+0.023) 21.71ng

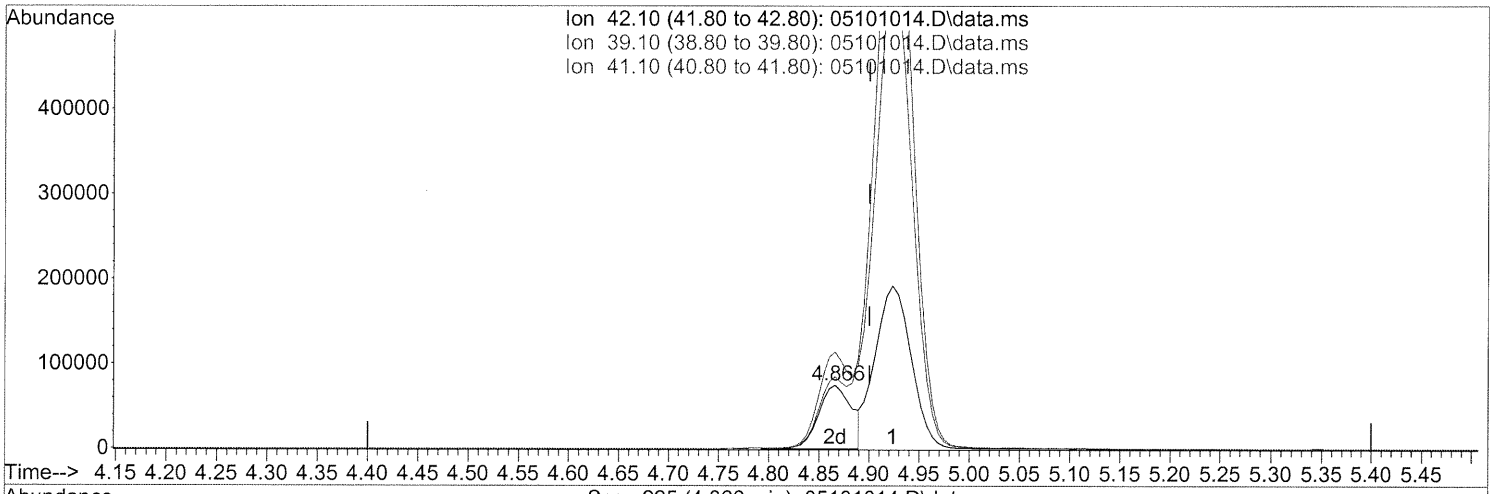
response 481884

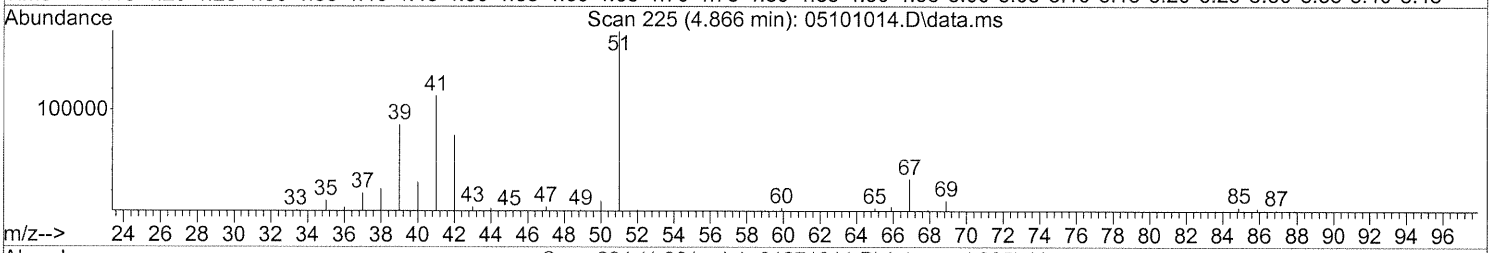
MP

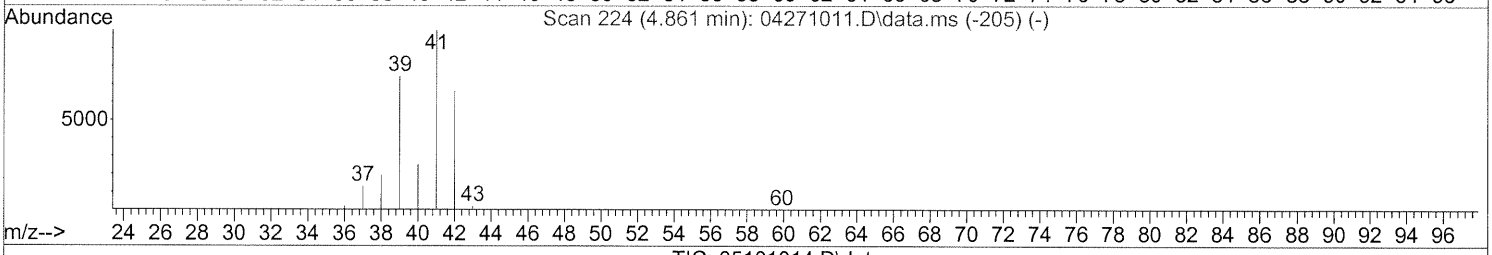
Ion	Exp%	Act%
42.10	100	100
39.10	112.20	387.46#
41.10	153.90	298.40#
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101014.D\data.ms

(2) Propene (T)

4.866min (-0.034) 7.81ng m

response 173270

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	1077.57#
41.10	153.90	829.89#
0.00	0.00	0.00

MP—7 IC

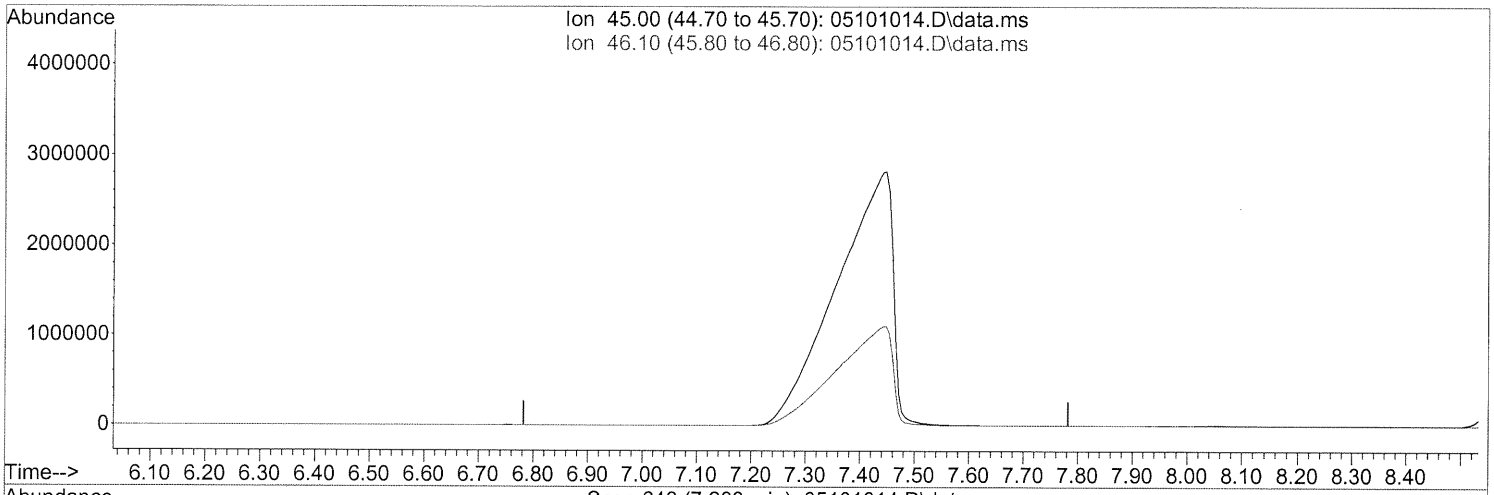
5/17/10

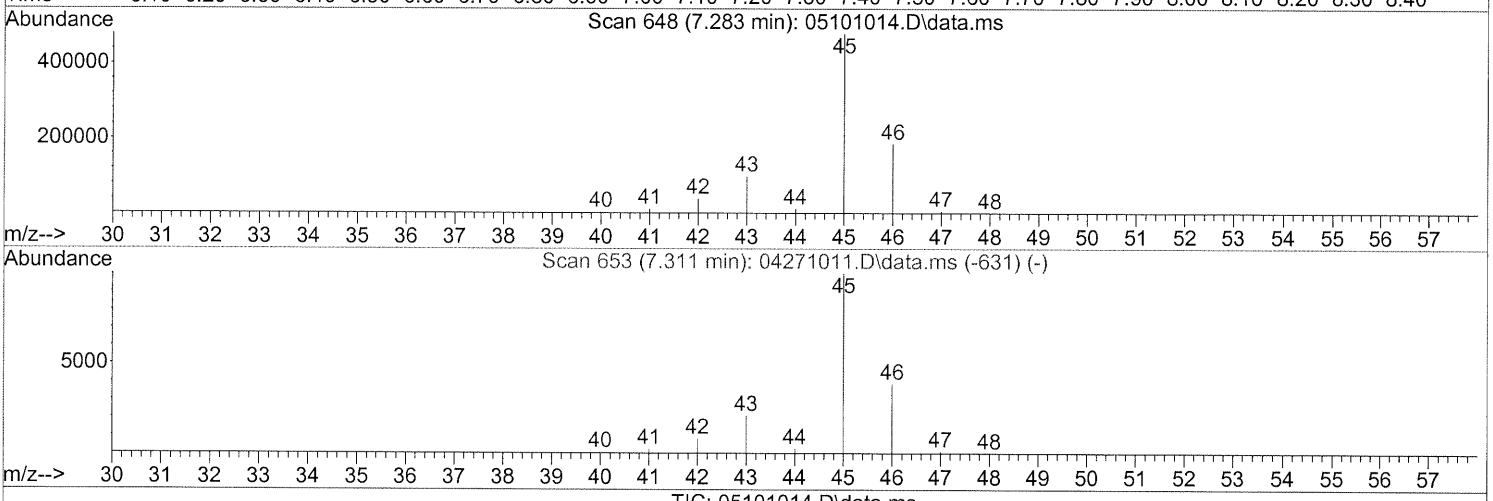
5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration





TIC: 05101014.D\data.ms

(10) Ethanol (T)

7.283min (-7.283) 0.00ng

response 0

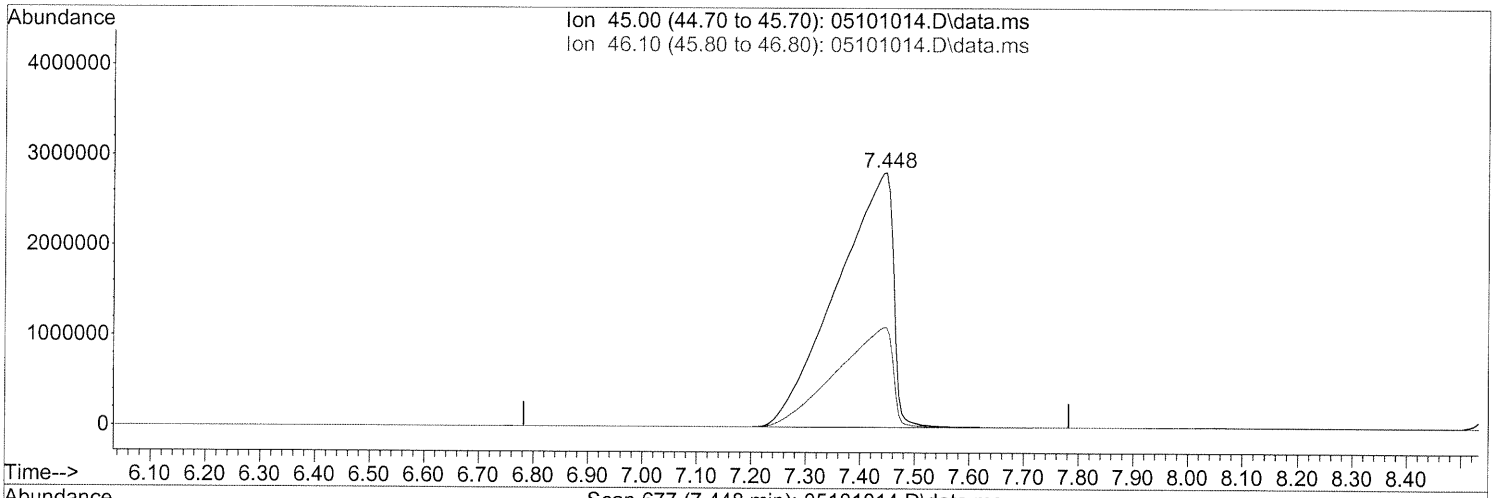
MP

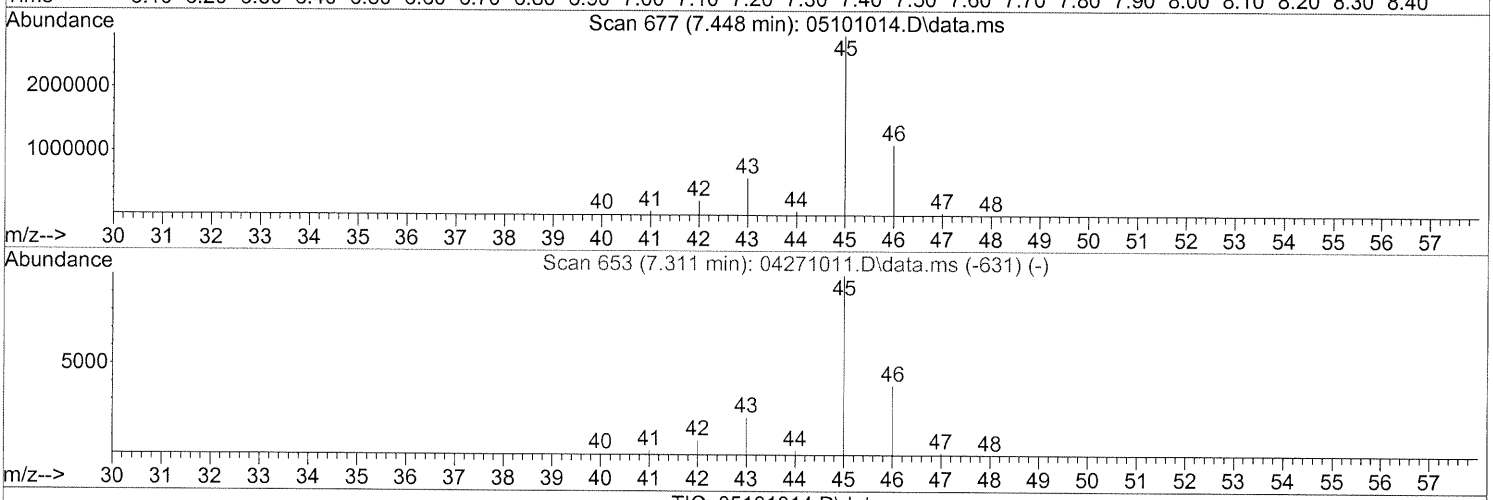
Ion	Exp%	Act%
45.00	100	0.00
46.10	38.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration





TIC: 05101014.D\data.ms

(10) Ethanol (T)

7.448min (+0.166) 1497.89ng m

response 20249733

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

MP-7 IC

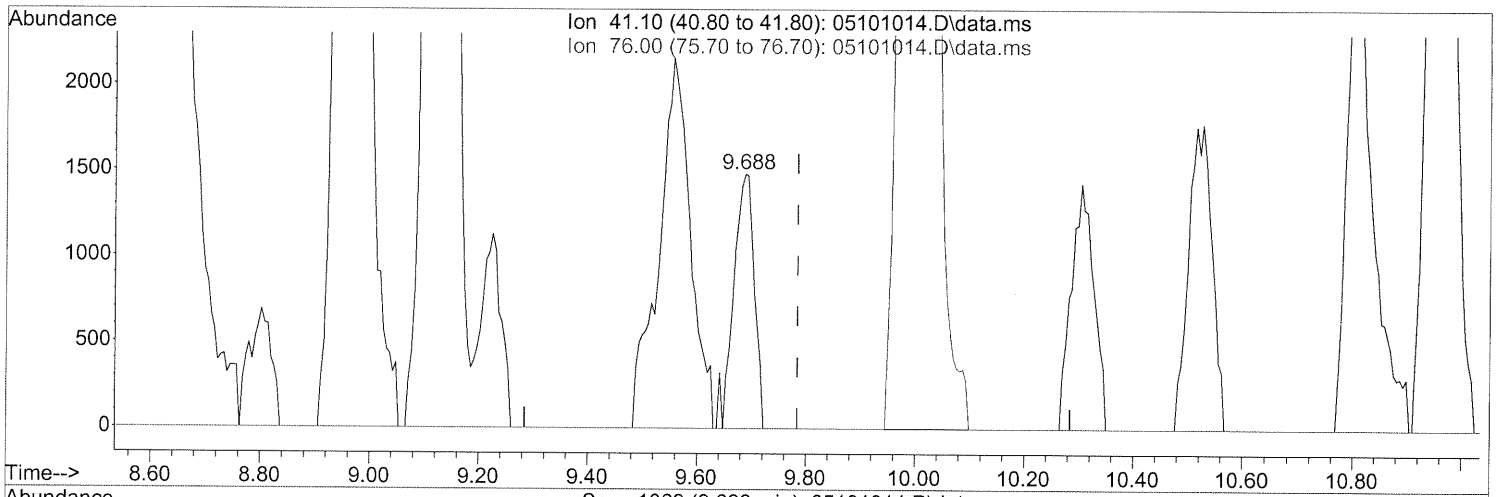
5/17/10

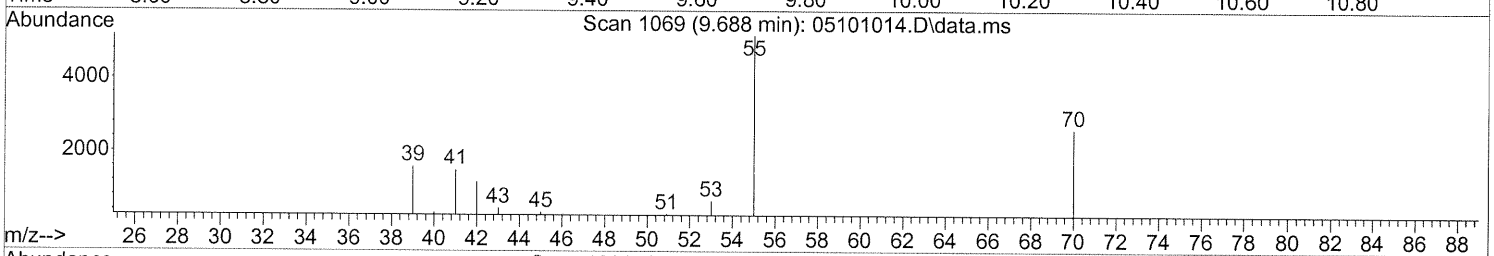
5/19/10

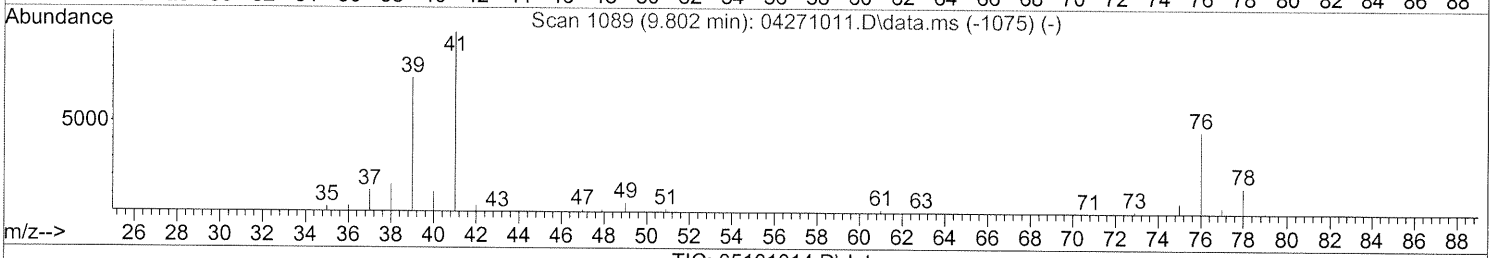
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101014.D\data.ms

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

9.688min (-0.097) 0.15ng

response 3874

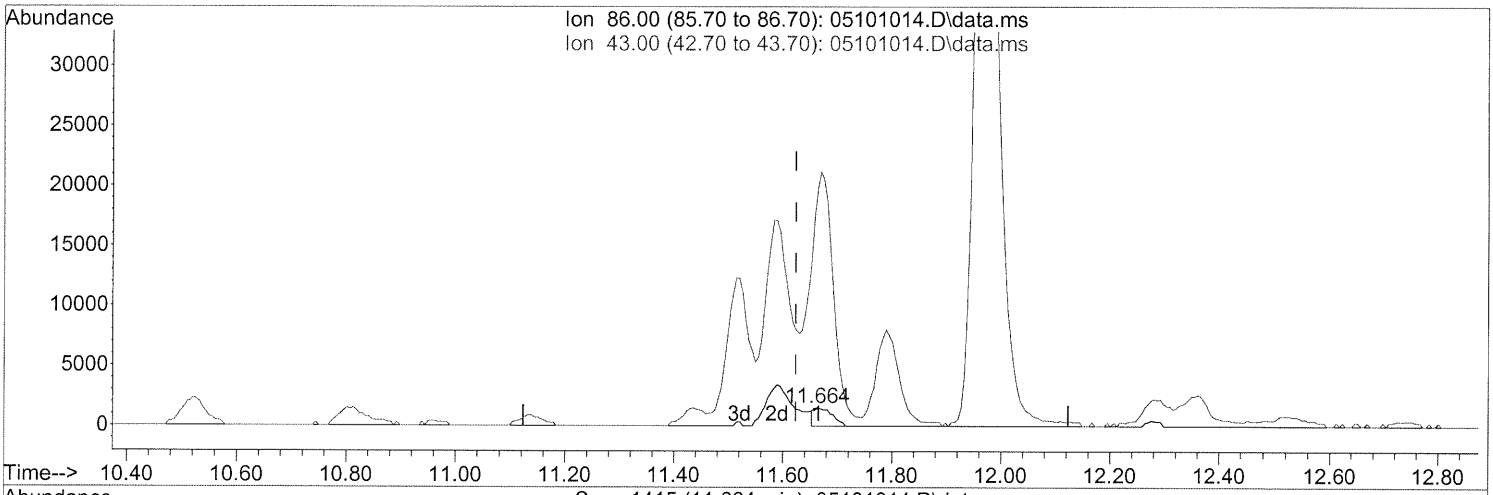
Ion	Exp%	Act%
41.10	100	100
76.00	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

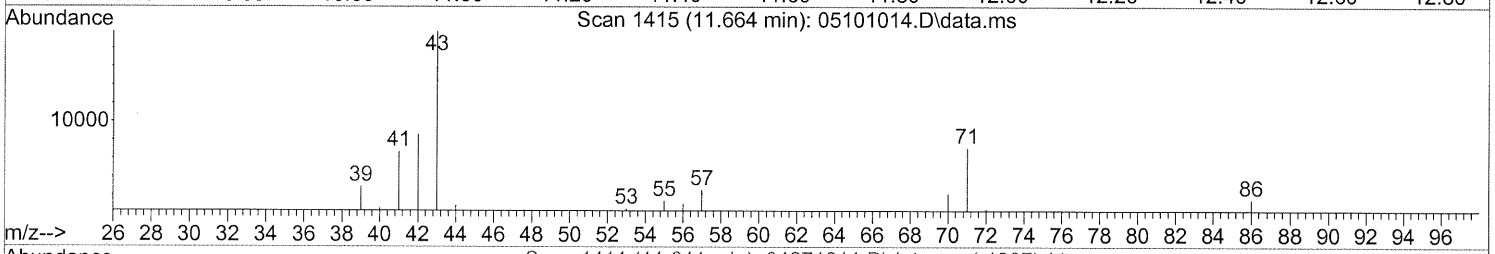
FP

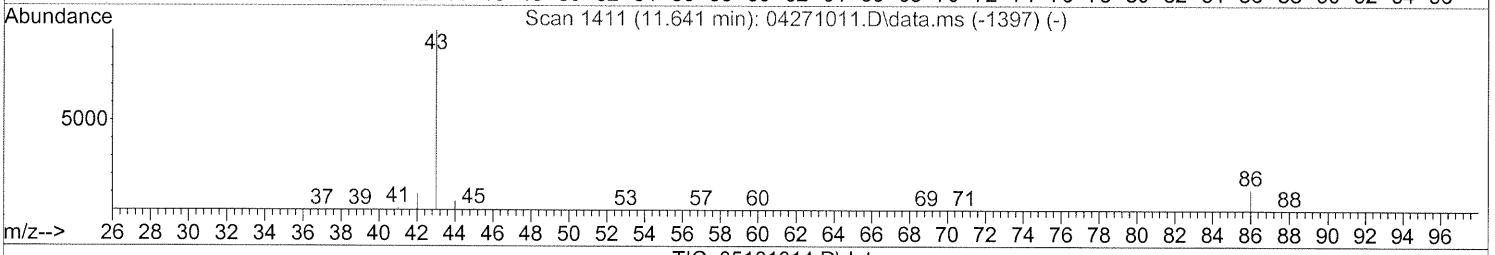
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101014.D\data.ms

(26) Vinyl Acetate (T)

11.664min (+0.040) 0.58ng

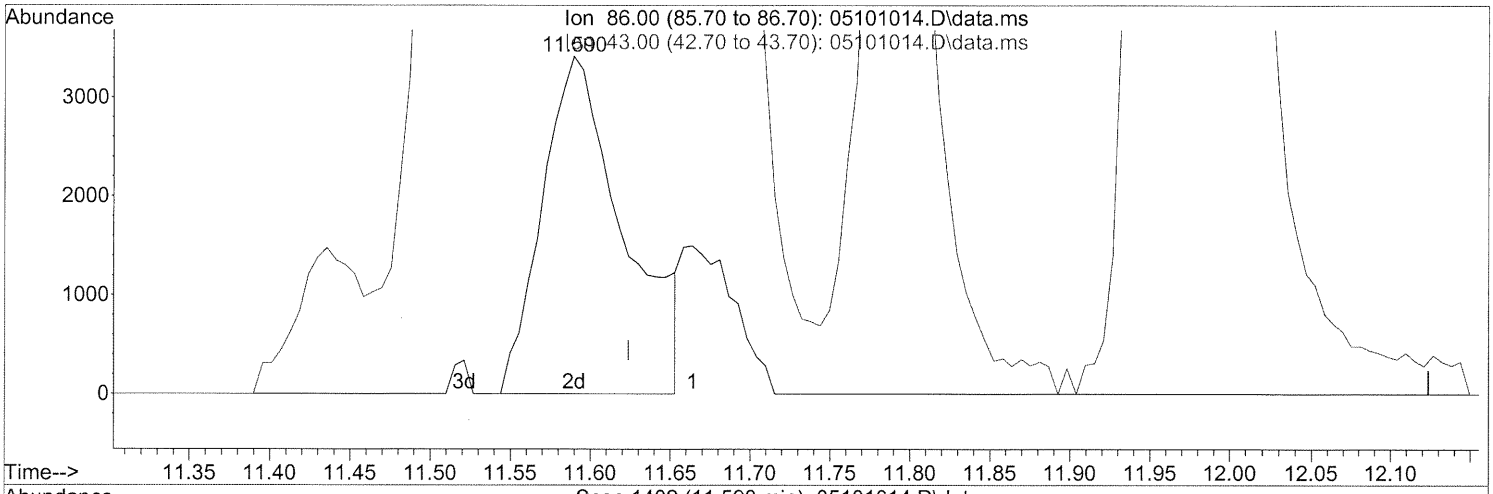
response 3486

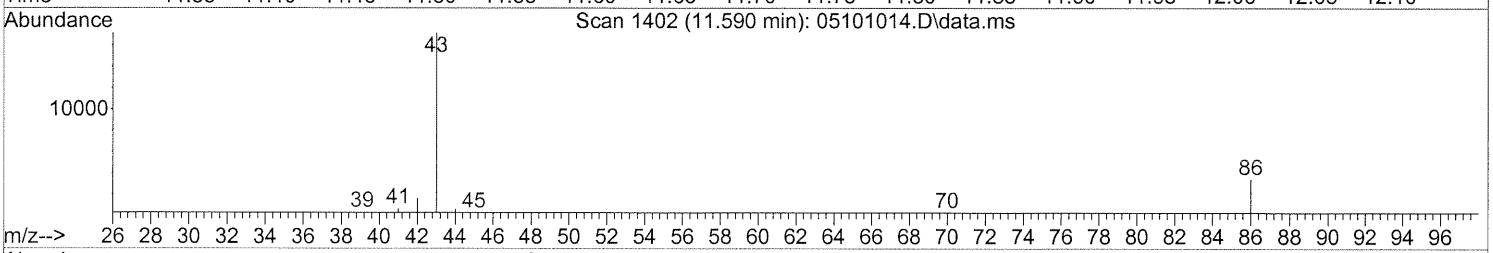
MP

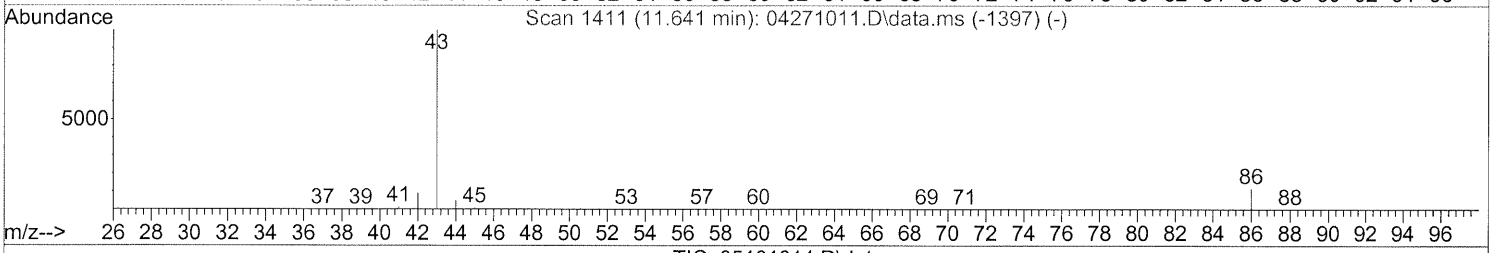
Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	1740.85#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101014.D\data.ms

(26) Vinyl Acetate (T)

11.590min (-0.034) 2.00ng m

response 12003

Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	505.59#
0.00	0.00	0.00
0.00	0.00	0.00

MF — 7 IC

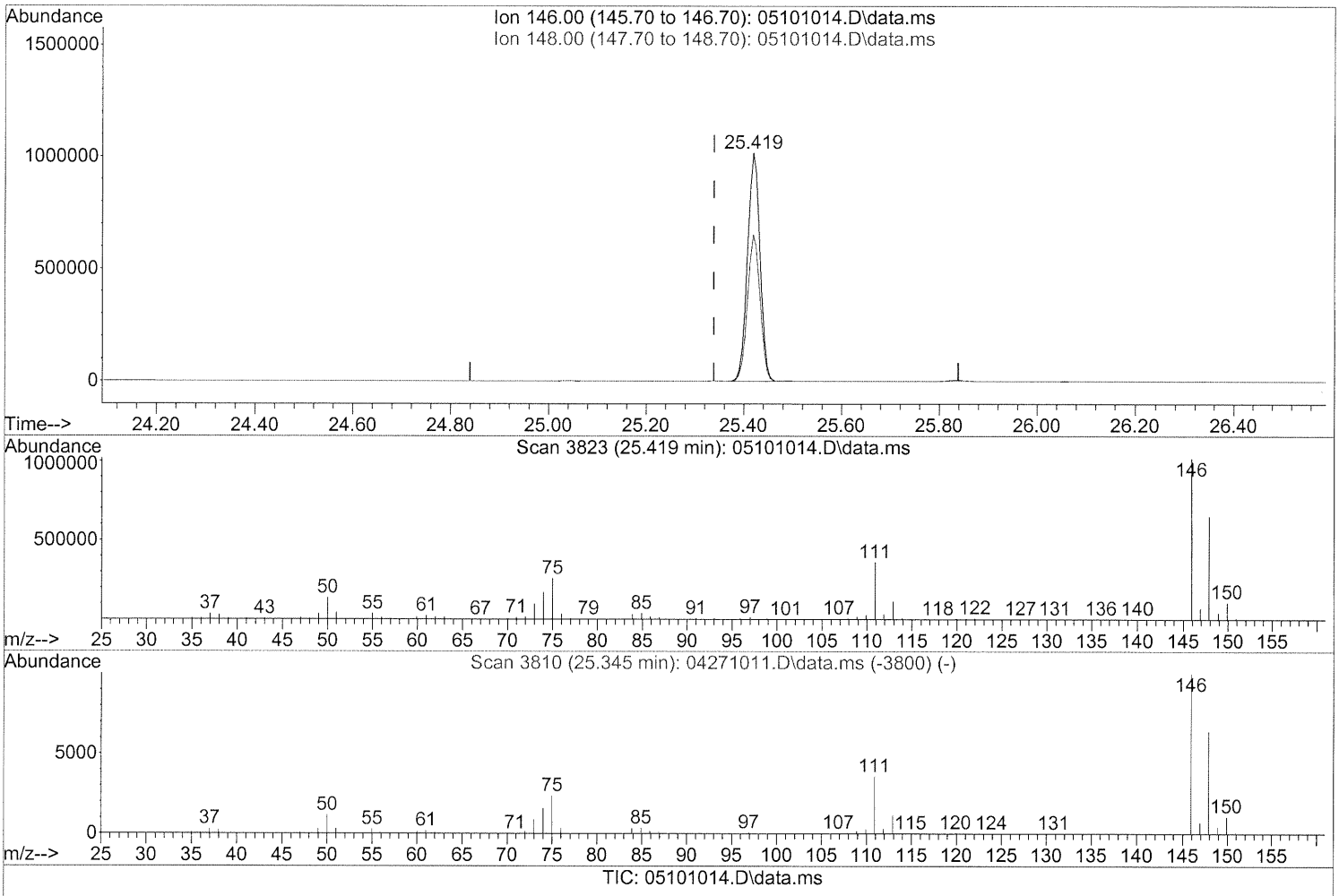
BH 5/17/10

E 5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101014.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.419min (+0.080) 28.57ng

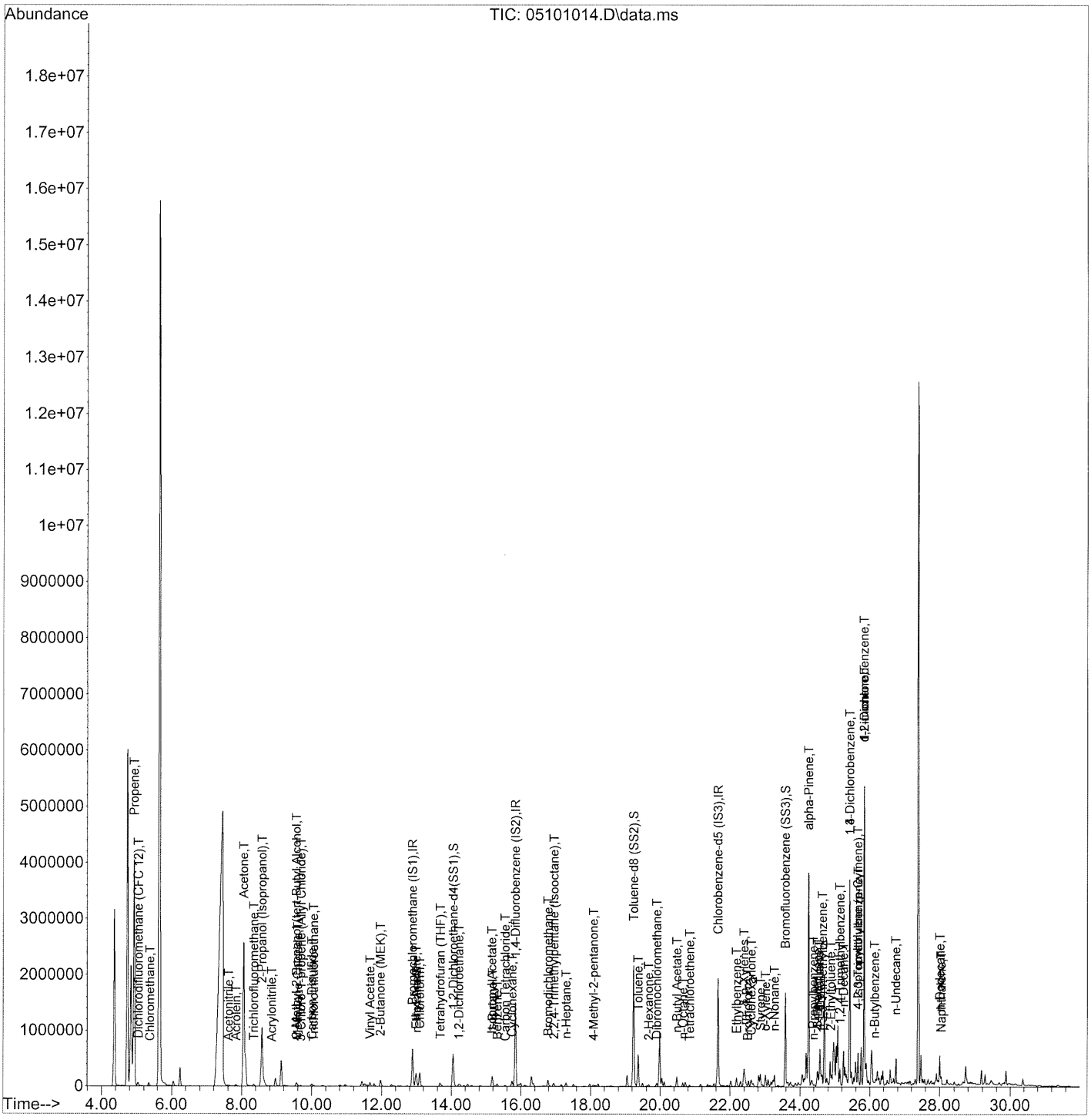
response 1812059

FP

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	64.05
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	391769	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1844342	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	778232	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	579152	24.494	ng		0.00
Spiked Amount 25.000			Recovery =	97.96%			
57) Toluene-d8 (SS2)	19.24	98	1936515	24.672	ng		0.00
Spiked Amount 25.000			Recovery =	98.68%			
73) Bromofluorobenzene (SS3)	23.58	174	665937	24.221	ng		0.00
Spiked Amount 25.000			Recovery =	96.88%			
Target Compounds							Qvalue
2) Propene	4.92	42	481884	21.712	ng	#	1
3) Dichlorodifluoromethan...	5.04	85	69568	1.333	ng		99
4) Chloromethane	5.37	50	11619	0.367	ng		100
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	1425	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.12	54	1070	N.D.			
8) Bromomethane	6.63	94	791	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	0.00	45	0	N.D.			
11) Acetonitrile	7.62	41	18507	0.565	ng		98
12) Acrolein	7.83	56	29624	2.222	ng		98
13) Acetone	8.05	58	1604857	92.900	ng		91
14) Trichlorofluoromethane	8.35	101	33544	0.706	ng		99
15) 2-Propanol (Isopropanol)	8.58	45	2224759	44.202	ng		100
16) Acrylonitrile	8.85	53	2701	0.103	ng		92
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.56	59	38609	0.650	ng	#	1
19) Methylene Chloride	9.60	84	5181	0.199	ng	#	75
20) 3-Chloro-1-propene (Al...	9.69	41	3874	0.148	ng	#	42
21) Trichlorotrifluoroethane	10.05	151	7796	0.327	ng	#	76
22) Carbon Disulfide	10.00	76	87823	1.046	ng		100
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	11.49	73	967	N.D.			
26) Vinyl Acetate	11.66	86	3486	0.580	ng	#	19
27) 2-Butanone (MEK)	11.97	72	55185	3.478	ng	#	67
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	12.99	87	1157	N.D.			
30) Ethyl Acetate	12.99	61	49632	5.890	ng		91
31) n-Hexane	13.01	57	40237	1.002	ng	#	96

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.10	83	265570	6.221 ng		99
34) Tetrahydrofuran (THF)	13.69	72	9211	0.598 ng	#	20
35) Ethyl tert-Butyl Ether	13.81	87	286	N.D.		
36) 1,2-Dichloroethane	14.22	62	40740	1.272 ng		100
38) 1,1,1-Trichloroethane	14.62	97	562	N.D.		
39) Isopropyl Acetate	15.17	61	2278	0.161 ng	#	1
40) 1-Butanol	15.18	56	153379	6.896 ng	#	74
41) Benzene	15.32	78	59671	0.568 ng		99
42) Carbon Tetrachloride	15.55	117	13357	0.414 ng		100
43) Cyclohexane	15.75	84	56536	1.446 ng	#	78
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.53	63	1432	N.D.		
46) Bromodichloromethane	16.78	83	97383	3.089 ng		99
47) Trichloroethene	16.86	130	865	N.D.		
48) 1,4-Dioxane	16.83	88	1851	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	66465	0.689 ng		94
50) Methyl Methacrylate	17.11	100	848	N.D.		
51) n-Heptane	17.30	71	21546	0.863 ng		89
52) cis-1,3-Dichloropropene	17.84	75	458	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	10497	0.528 ng		98
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	548628	4.956 ng		99
59) 2-Hexanone	19.67	43	29007	0.619 ng		90
60) Dibromochloromethane	19.91	129	40852	1.544 ng		100
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	153554	2.871 ng		93
63) n-Octane	20.66	57	12717	0.640 ng	#	80
64) Tetrachloroethene	20.84	166	10459	0.302 ng		99
65) Chlorobenzene	21.71	112	1917	N.D.		
66) Ethylbenzene	22.19	91	151698	1.250 ng		96
67) m- & p-Xylenes	22.40	91	318000	3.317 ng		93
68) Bromoform	22.51	173	5572	0.224 ng		98
69) Styrene	22.87	104	130625	1.732 ng		94
70) o-Xylene	23.01	91	124995	1.279 ng		95
71) n-Nonane	23.27	43	76018	1.783 ng		82
72) 1,1,2,2-Tetrachloroethane	23.01	83	1626	N.D.		
74) Cumene	23.75	105	12336	N.D.		
75) alpha-Pinene	24.25	93	1851087	29.870 ng		94
76) n-Propylbenzene	24.38	91	31357	0.202 ng	#	88
77) 3-Ethyltoluene	24.50	105	76072	0.622 ng		98
78) 4-Ethyltoluene	24.55	105	55289	0.449 ng		90
79) 1,3,5-Trimethylbenzene	24.64	105	32124	0.319 ng		94

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101014.D
Acq On : 10 May 2010 21:30
Operator : WA
Sample : P1001603-002 (1000mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

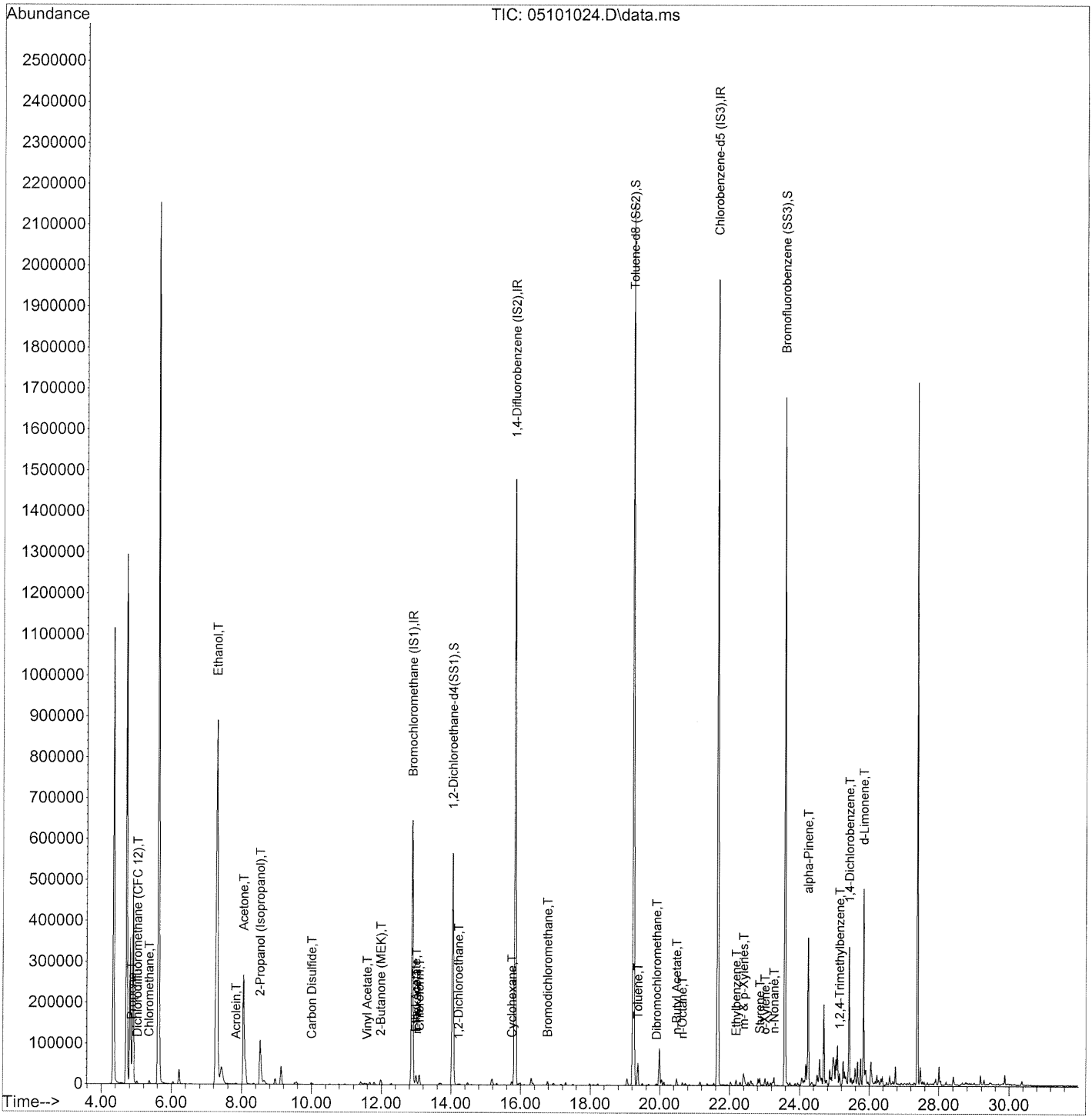
Quant Time: May 11 03:53:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	3931	N.D.			
81) 2-Ethyltoluene	24.88	105	32300	0.254	ng		97
82) 1,2,4-Trimethylbenzene	25.15	105	122221	1.175	ng		96
83) n-Decane	25.25	57	221950	4.683	ng		87
84) Benzyl Chloride	25.31	91	2635	N.D.			
85) 1,3-Dichlorobenzene	25.42	146	1812059	28.573	ng		100
86) 1,4-Dichlorobenzene	25.42	146	1812059	27.557	ng		100
87) sec-Butylbenzene	25.48	105	8112	N.D.			
88) 4-Isopropyltoluene (p-...	25.66	119	225418	1.678	ng		88
89) 1,2,3-Trimethylbenzene	25.67	105	42637	0.407	ng	#	41
90) 1,2-Dichlorobenzene	25.84	146	7730	0.128	ng		97
91) d-Limonene	25.84	68	1339686	37.096	ng	#	73
92) 1,2-Dibromo-3-Chloropr...	26.76	157	1053	N.D.			
93) n-Undecane	26.75	57	157937	3.365	ng		82
94) 1,2,4-Trichlorobenzene	27.90	180	732	N.D.			
95) Naphthalene	28.05	128	105284	0.797	ng		99
96) n-Dodecane	28.01	57	168662	3.466	ng		91
97) Hexachlorobutadiene	0.00	225	0	N.D.			
98) Cyclohexanone	22.60	55	68299	2.151	ng	#	85
99) tert-Butylbenzene	25.43	119	2979	N.D.			
100) n-Butylbenzene	26.14	91	16706	0.156	ng	#	20

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

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 15 17:32:23 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 15 17:32:23 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	385956	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1844233	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	771979	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.04	65	577923	24.810	ng		0.00
Spiked Amount 25.000			Recovery =	99.24%			✓
57) Toluene-d8 (SS2)	19.23	98	1942965	24.954	ng		0.00
Spiked Amount 25.000			Recovery =	99.80%			✓
73) Bromofluorobenzene (SS3)	23.58	174	662147	24.278	ng		0.00
Spiked Amount 25.000			Recovery =	97.12%			✓
Target Compounds							Qvalue
2) Propene	4.86	42	11912m	0.545	ng		
3) Dichlorodifluoromethan...	5.02	85	7351	0.143	ng	#	93
4) Chloromethane	5.36	50	3918	0.126	ng		92
10) Ethanol	7.29	45	1876173m	140.872	ng		
12) Acrolein	7.84	56	2703	0.206	ng		93
13) Acetone	8.05	58	154841	9.098	ng		94
15) 2-Propanol (Isopropanol)	8.52	45	246496	4.971	ng		99
22) Carbon Disulfide	10.00	76	9503	0.115	ng		80
26) Vinyl Acetate	11.59	86	629	0.106	ng	#	34
27) 2-Butanone (MEK)	11.98	72	6085	0.389	ng	#	66
30) Ethyl Acetate	12.99	61	4024	0.485	ng		90
31) n-Hexane	13.01	57	3779	0.096	ng	#	95
32) Chloroform	13.09	83	26424	0.628	ng		100
36) 1,2-Dichloroethane	14.21	62	3870	0.123	ng		93
43) Cyclohexane	15.75	84	5486	0.140	ng	#	76
46) Bromodichloromethane	16.78	83	9074	0.288	ng		98
58) Toluene	19.37	91	55013	0.501	ng		100
60) Dibromochloromethane	19.91	129	3712	0.141	ng		98
62) n-Butyl Acetate	20.48	43	15037	0.283	ng		94
63) n-Octane	20.64	57	1967	0.100	ng	#	83
66) Ethylbenzene	22.19	91	15016	0.125	ng		99
67) m- & p-Xylenes	22.40	91	31398	0.330	ng		92
69) Styrene	22.87	104	11854	0.158	ng		94
70) o-Xylene	23.01	91	11903	0.123	ng		91
71) n-Nonane	23.27	43	8064	0.191	ng		88
75) alpha-Pinene	24.24	93	178499	2.904	ng		93
82) 1,2,4-Trimethylbenzene	25.15	105	11962	0.116	ng		96
86) 1,4-Dichlorobenzene	25.42	146	170803	2.619	ng		99
91) d-Limonene	25.84	68	118547	3.309	ng	#	71

MA 5/17/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 15 17:32:23 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

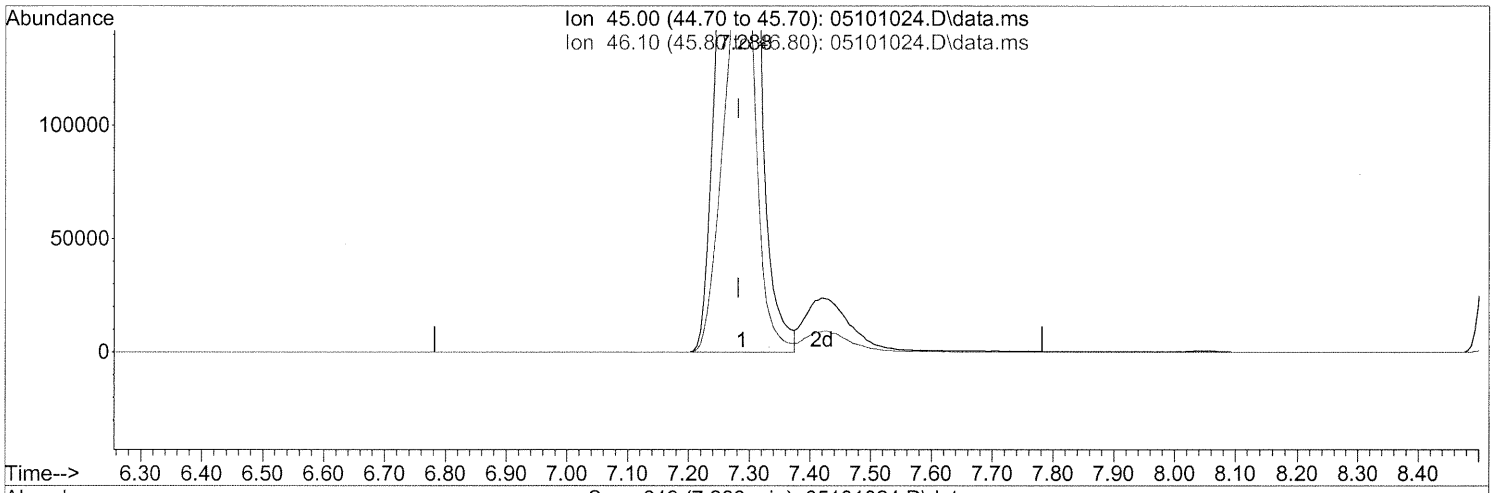
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

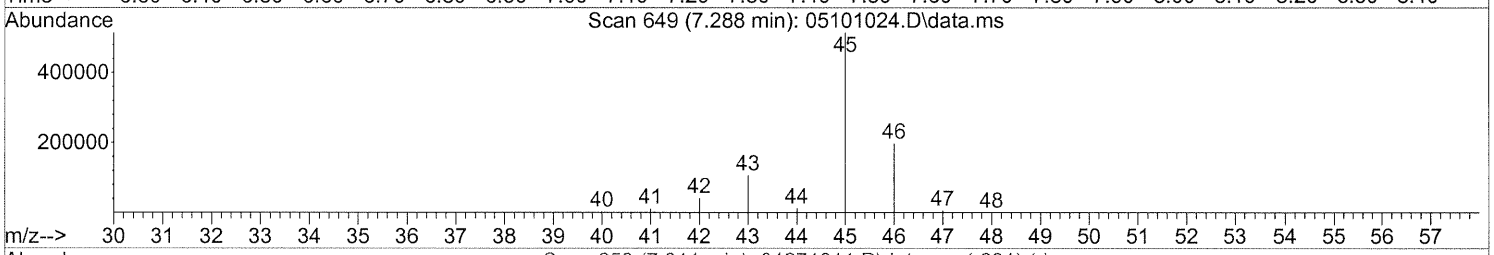
(#) = qualifier out of range (m) = manual integration (+) = signals summed

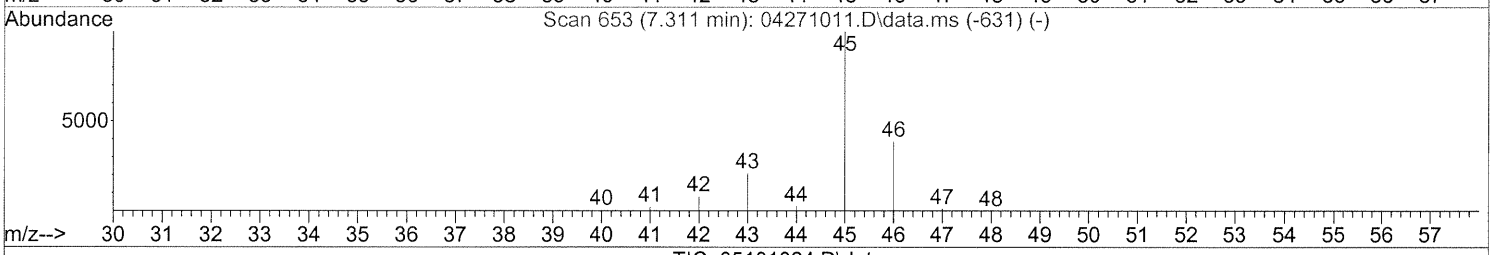
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 06:28:02 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101024.D\data.ms

(10) Ethanol (T)

7.288min (+0.006) 131.34ng

response 1749192

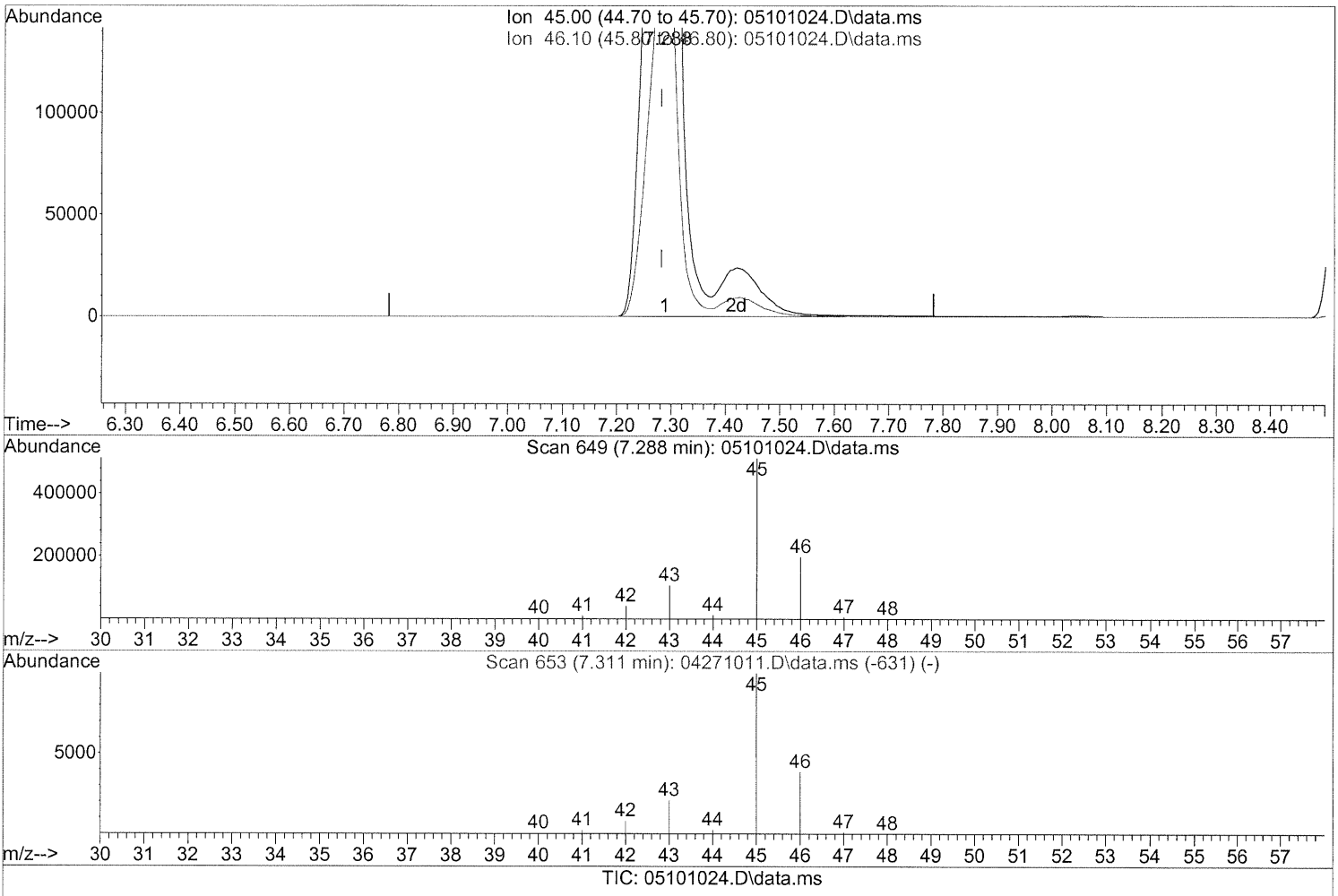
SP

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 06:28:02 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101024.D\data.ms

(10) Ethanol (T)

7.288min (+0.006) 140.87ng m

response 1876173

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	35.89
0.00	0.00	0.00
0.00	0.00	0.00

SP-71C

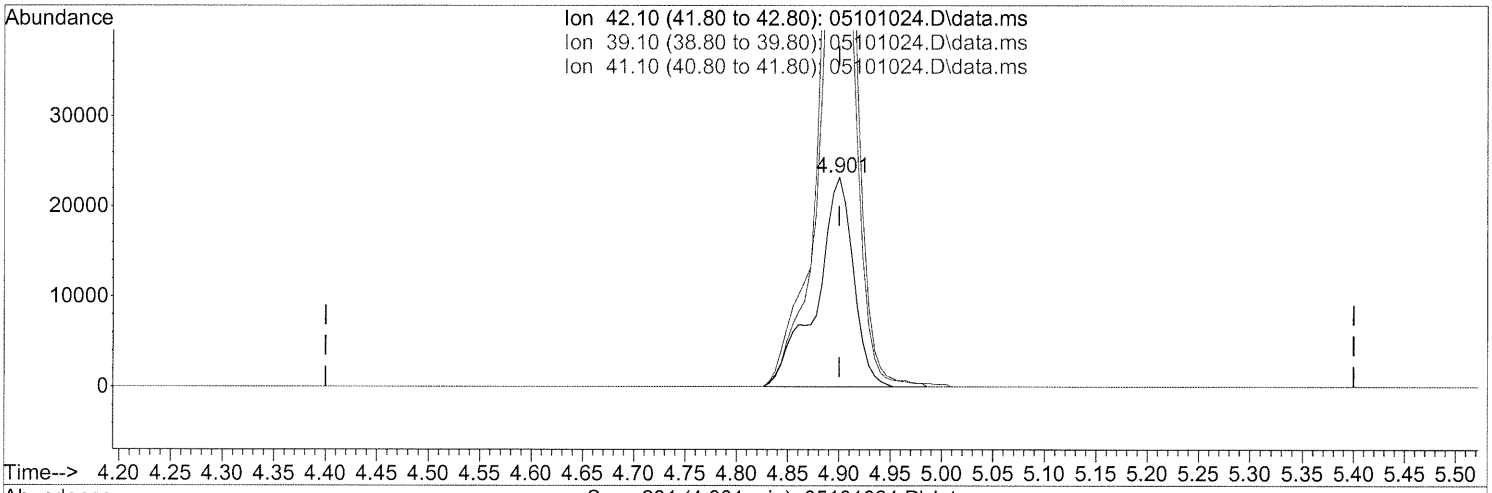
5/17/10

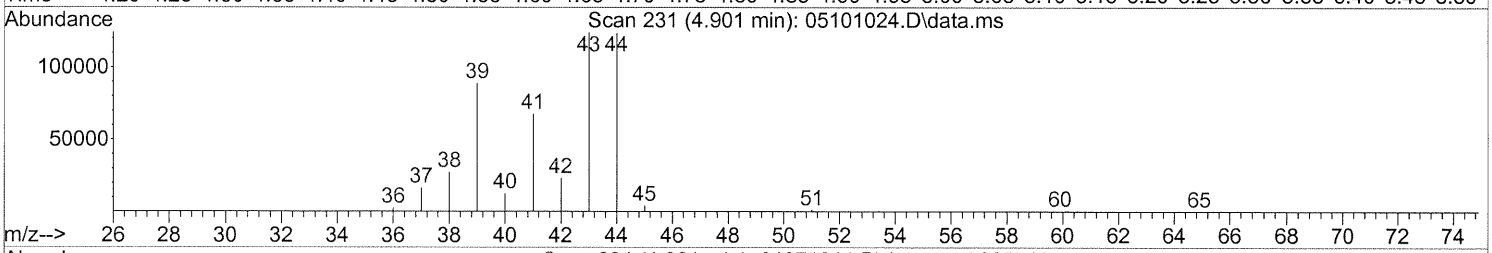
5/19/10

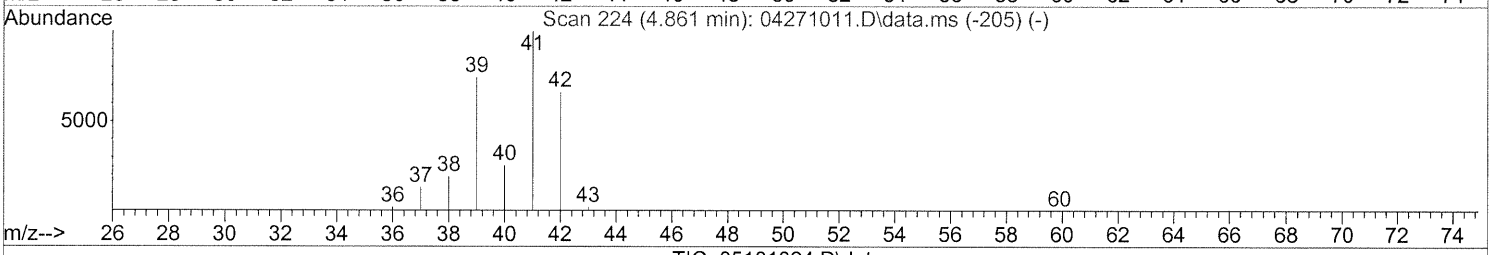
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 06:28:02 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101024.D\data.ms

(2) Propene (T)

4.901min (+0.000) 2.65ng

response 57992

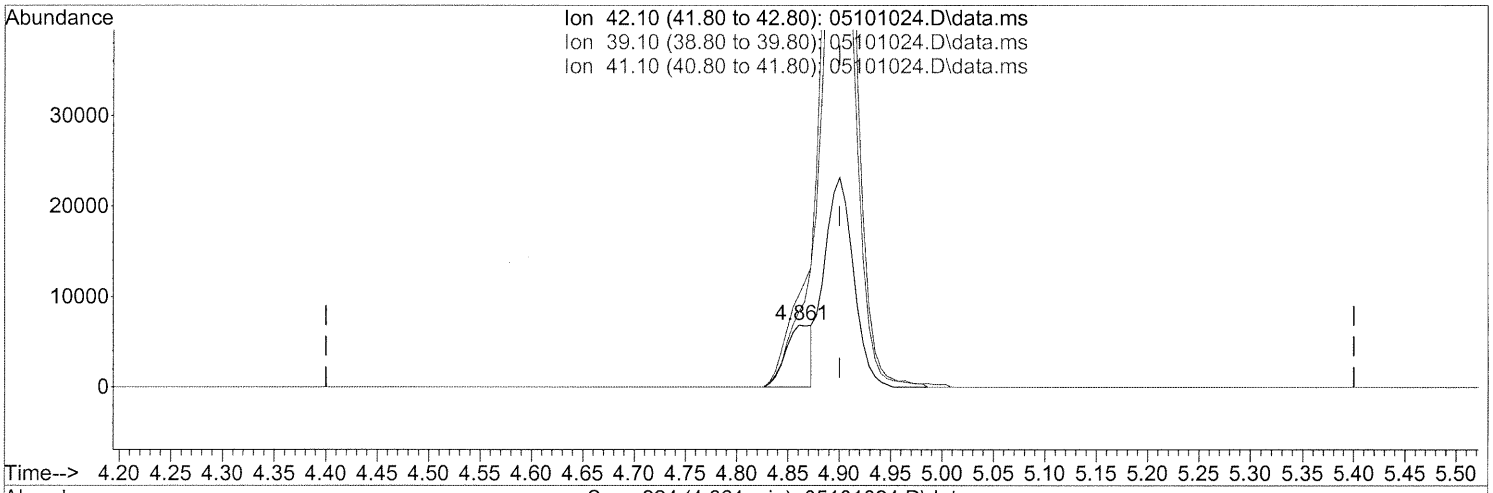
SH

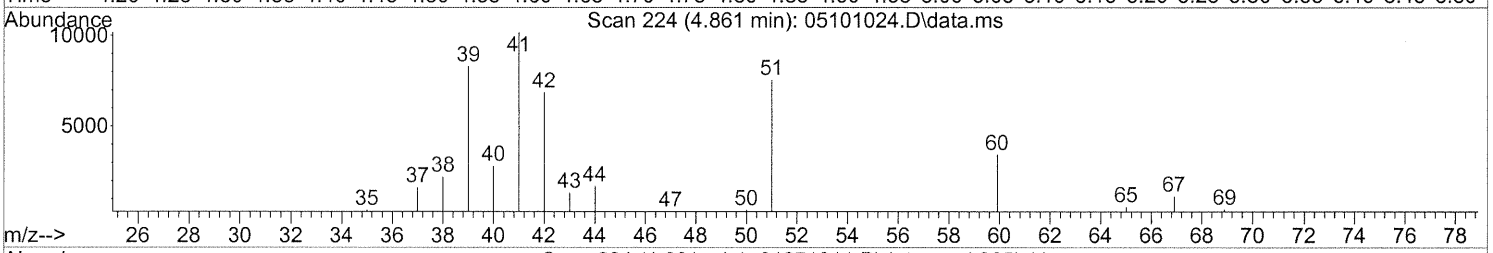
Ion	Exp%	Act%
42.10	100	100
39.10	112.20	331.56#
41.10	153.90	265.10#
0.00	0.00	0.00

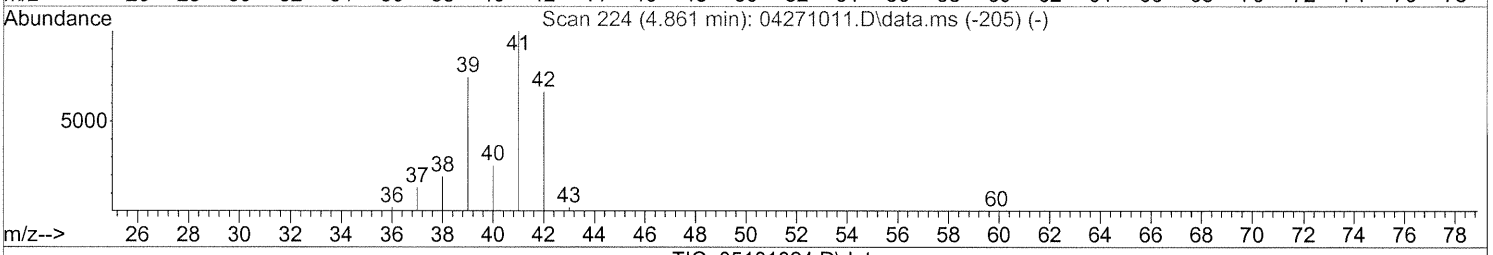
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 06:28:02 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101024.D\data.ms

(2) Propene (T)

4.861min (-0.040) 0.54ng m

response 11912

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	1614.17#
41.10	153.90	1290.62#
0.00	0.00	0.00

SH → IC

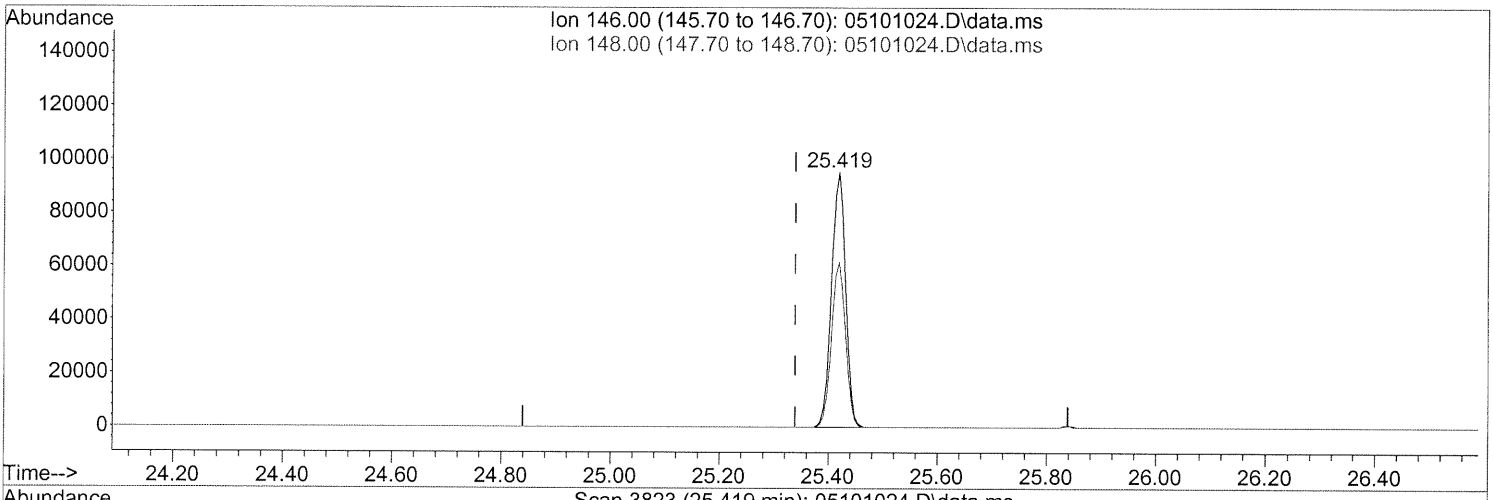
SH 5/17/10

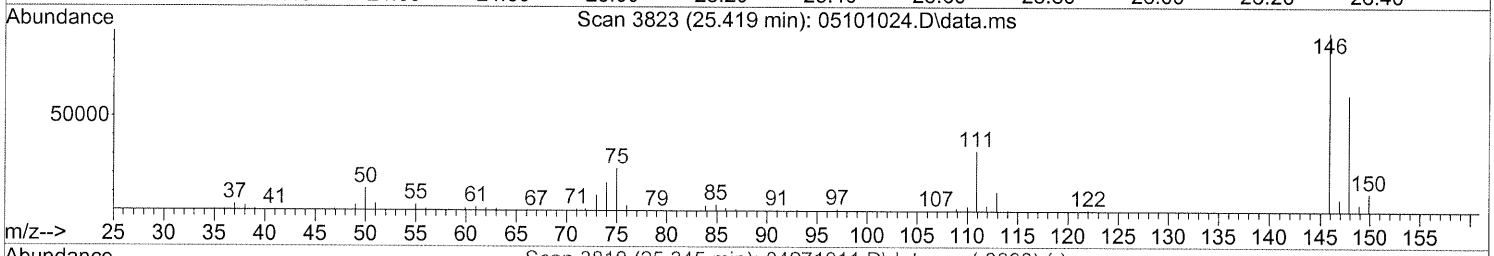
5/19/10

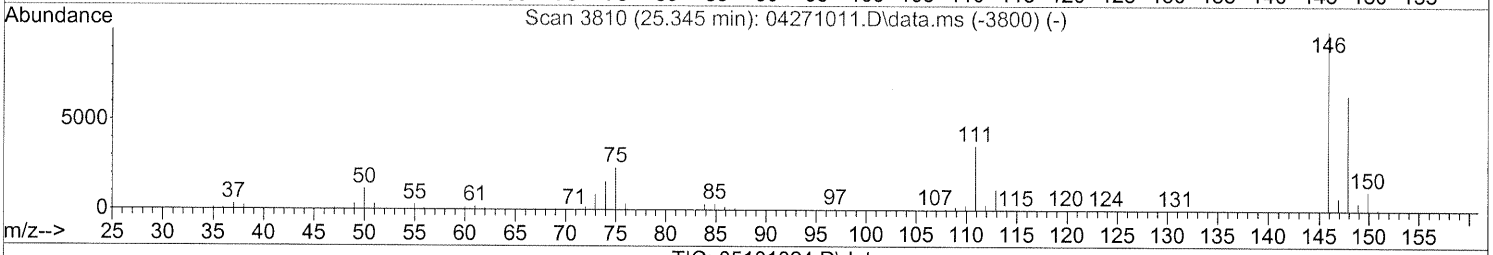
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 06:28:02 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101024.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.419min (+0.080) 2.72ng

response 170803

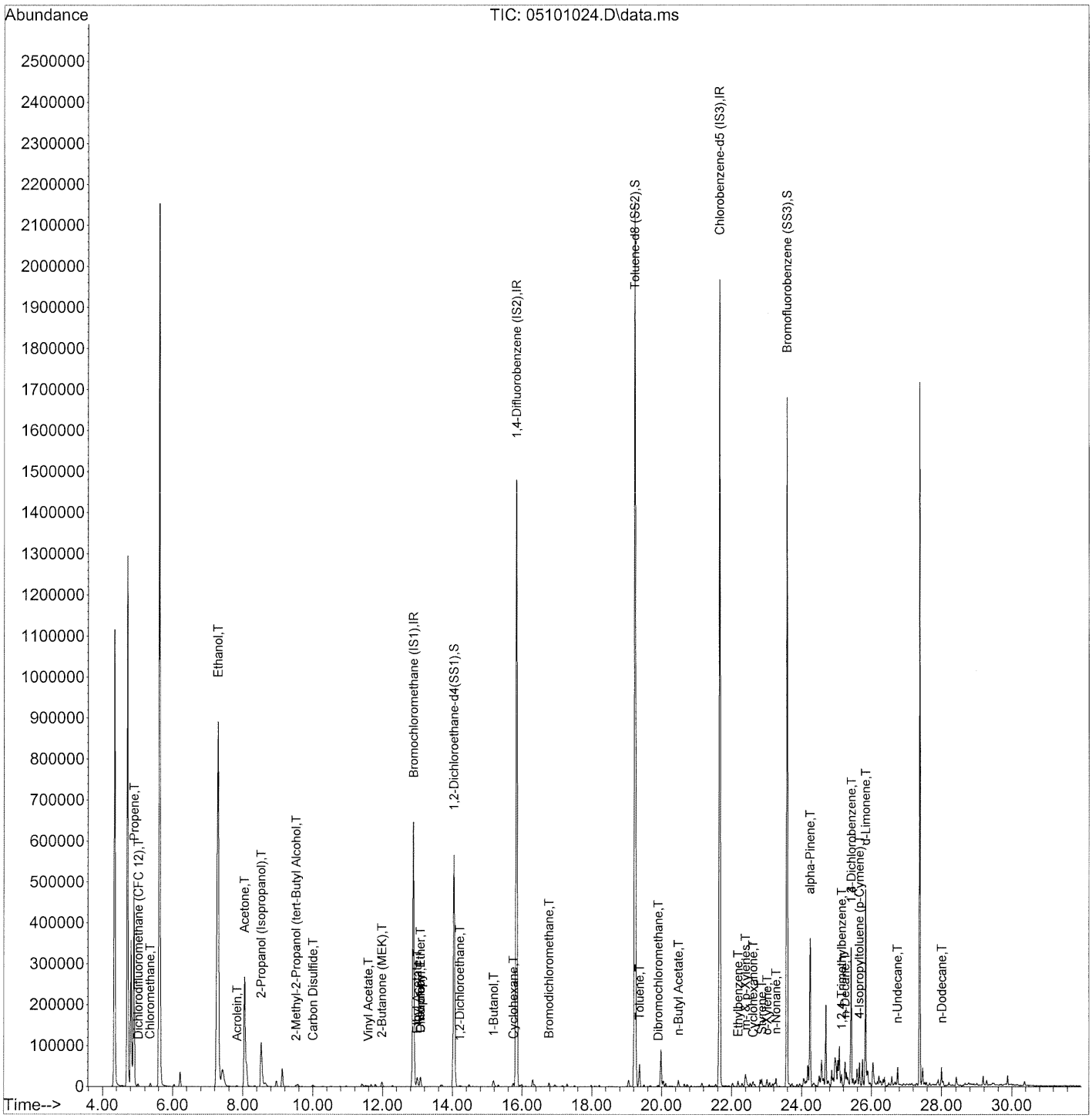
Ion	Exp%	Act%
146.00	100	100
148.00	63.70	64.54
0.00	0.00	0.00
0.00	0.00	0.00

FP

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 06:28:02 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 06:28:02 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	385956	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1844233	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	771979	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.04	65	577923	24.810	ng		0.00
Spiked Amount 25.000			Recovery =	99.24%			
57) Toluene-d8 (SS2)	19.23	98	1942965	24.954	ng		0.00
Spiked Amount 25.000			Recovery =	99.80%			
73) Bromofluorobenzene (SS3)	23.58	174	662147	24.278	ng		0.00
Spiked Amount 25.000			Recovery =	97.12%			
Target Compounds							Qvalue
2) Propene	4.90	42	57992	2.652	ng	#	1
3) Dichlorodifluoromethan...	5.02	85	7351	0.143	ng	#	93
4) Chloromethane	5.36	50	3918	0.126	ng		92
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	7.29	45	1749192	131.338	ng		100
11) Acetonitrile	7.60	41	1565	N.D.			
12) Acrolein	7.84	56	2703	0.206	ng		93
13) Acetone	8.05	58	154841	9.098	ng		94
14) Trichlorofluoromethane	8.34	101	3369	N.D.			
15) 2-Propanol (Isopropanol)	8.52	45	246496	4.971	ng		99
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.52	59	9498	0.162	ng	#	75
19) Methylene Chloride	9.58	84	958	N.D.			
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	10.06	151	282	N.D.			
22) Carbon Disulfide	10.00	76	9503	0.115	ng		80
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	11.59	86	629	0.106	ng	#	34
27) 2-Butanone (MEK)	11.98	72	6085	0.389	ng	#	66
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.09	87	2558	0.119	ng	#	1
30) Ethyl Acetate	12.99	61	4024	0.485	ng		90
31) n-Hexane	13.01	57	3779	N.D.			

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 06:28:02 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.09	83	26424	0.628 ng		100
34) Tetrahydrofuran (THF)	13.70	72	804	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.21	62	3870	0.123 ng		93
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	14204	0.639 ng	#	75
41) Benzene	15.31	78	6576	N.D.		
42) Carbon Tetrachloride	15.54	117	975	N.D.		
43) Cyclohexane	15.75	84	5486	0.140 ng	#	76
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.78	83	9074	0.288 ng		98
47) Trichloroethene	16.85	130	89	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	5989	N.D.		
50) Methyl Methacrylate	17.30	100	285	N.D.		
51) n-Heptane	17.30	71	2063	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.09	58	764	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	55013	0.501 ng		100
59) 2-Hexanone	19.68	43	3247	N.D.		
60) Dibromochloromethane	19.91	129	3712	0.141 ng		98
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	15037	0.283 ng		94
63) n-Octane	20.64	57	1967	N.D.		
64) Tetrachloroethene	20.85	166	1350	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.19	91	15016	0.125 ng		99
67) m- & p-Xylenes	22.40	91	31398	0.330 ng		92
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.87	104	11854	0.158 ng		94
70) o-Xylene	23.01	91	11903	0.123 ng		91
71) n-Nonane	23.27	43	8064	0.191 ng		88
72) 1,1,2,2-Tetrachloroethane	23.08	83	286	N.D.		
74) Cumene	23.75	105	1201	N.D.		
75) alpha-Pinene	24.24	93	178499	2.904 ng		93
76) n-Propylbenzene	24.38	91	2933	N.D.		
77) 3-Ethyltoluene	24.50	105	7677	N.D.		
78) 4-Ethyltoluene	24.56	105	5553	N.D.		
79) 1,3,5-Trimethylbenzene	24.64	105	2997	N.D.		

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101024.D
Acq On : 11 May 2010 4:28
Operator : WA
Sample : P1001603-002 Dil (100mL)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 06:28:02 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	25.04	118	424	N.D.			
81) 2-Ethyltoluene	24.88	105	3322	N.D.			
82) 1,2,4-Trimethylbenzene	25.15	105	11962	0.116	ng		96
83) n-Decane	25.25	57	21618	0.460	ng		87
84) Benzyl Chloride	25.43	91	1361	N.D.			
85) 1,3-Dichlorobenzene	25.42	146	170803	2.715	ng		99
86) 1,4-Dichlorobenzene	25.42	146	170803	2.619	ng		99
87) sec-Butylbenzene	25.48	105	573	N.D.			
88) 4-Isopropyltoluene (p-...	25.66	119	22177	0.166	ng		88
89) 1,2,3-Trimethylbenzene	25.67	105	4269	N.D.			
90) 1,2-Dichlorobenzene	25.84	146	618	N.D.			
91) d-Limonene	25.84	68	118547	3.309	ng	#	71
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	26.75	57	14426	0.310	ng		79
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.			
95) Naphthalene	28.05	128	9885	N.D.			
96) n-Dodecane	28.01	57	15886	0.329	ng		90
97) Hexachlorobutadiene	0.00	225	0	N.D.			
98) Cyclohexanone	22.61	55	7747	0.246	ng	#	83
99) tert-Butylbenzene	25.14	119	1530	N.D.			
100) n-Butylbenzene	26.17	91	2243	N.D.			

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110258**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00524

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10/10
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.75	ND	0.44	
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**1.8**	0.75	**0.36**	0.15	
74-87-3	**Chloromethane**	**0.36**	0.30	**0.18**	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.059	
106-99-0	1,3-Butadiene	ND	0.30	ND	0.14	
74-83-9	Bromomethane	ND	0.15	ND	0.039	
75-00-3	Chloroethane	ND	0.15	ND	0.057	
64-17-5	**Ethanol**	**22**	7.5	**12**	4.0	
75-05-8	Acetonitrile	ND	0.75	ND	0.45	
107-02-8	Acrolein	ND	3.0	ND	1.3	
67-64-1	**Acetone**	**10**	7.5	**4.4**	3.2	
75-69-4	**Trichlorofluoromethane**	**0.91**	0.15	**0.16**	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.5	ND	0.61	
107-13-1	Acrylonitrile	ND	0.75	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	ND	0.75	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
76-13-1	**Trichlorotrifluoroethane**	**0.42**	0.15	**0.054**	0.020	
75-15-0	Carbon Disulfide	ND	7.5	ND	2.4	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.038	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.042	
108-05-4	Vinyl Acetate	ND	7.5	ND	2.1	
78-93-3	2-Butanone (MEK)	ND	7.5	ND	2.5	

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: Rv Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110258**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00524

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10/10
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	Ethyl Acetate	ND	0.75	ND	0.21	
110-54-3	n-Hexane	ND	0.75	ND	0.21	
67-66-3	Chloroform	ND	0.15	ND	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.75	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	**Benzene**	**0.17**	0.15	**0.053**	0.047	
56-23-5	**Carbon Tetrachloride**	**0.40**	0.15	**0.064**	0.024	
110-82-7	Cyclohexane	ND	0.75	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.75	ND	0.18	
142-82-5	n-Heptane	ND	0.75	ND	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	0.75	ND	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	ND	0.75	ND	0.20	
591-78-6	2-Hexanone	ND	0.75	ND	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	ND	0.75	ND	0.16	

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: Ru Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110258**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00524

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10/10
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.75	ND	0.16	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	ND	0.75	ND	0.17	
179601-23-1	m,p-Xylenes	ND	0.75	ND	0.17	
75-25-2	Bromoform	ND	0.75	ND	0.073	
100-42-5	Styrene	ND	0.75	ND	0.18	
95-47-6	o-Xylene	ND	0.75	ND	0.17	
111-84-2	n-Nonane	ND	0.75	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.75	ND	0.15	
80-56-8	alpha-Pinene	ND	0.75	ND	0.13	
103-65-1	n-Propylbenzene	ND	0.75	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.75	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.75	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.75	ND	0.15	
100-44-7	Benzyl Chloride	ND	0.75	ND	0.14	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	**1,4-Dichlorobenzene**	**0.39**	0.15	**0.065**	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	ND	0.75	ND	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	ND	0.078	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	ND	0.10	
91-20-3	Naphthalene	ND	0.75	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

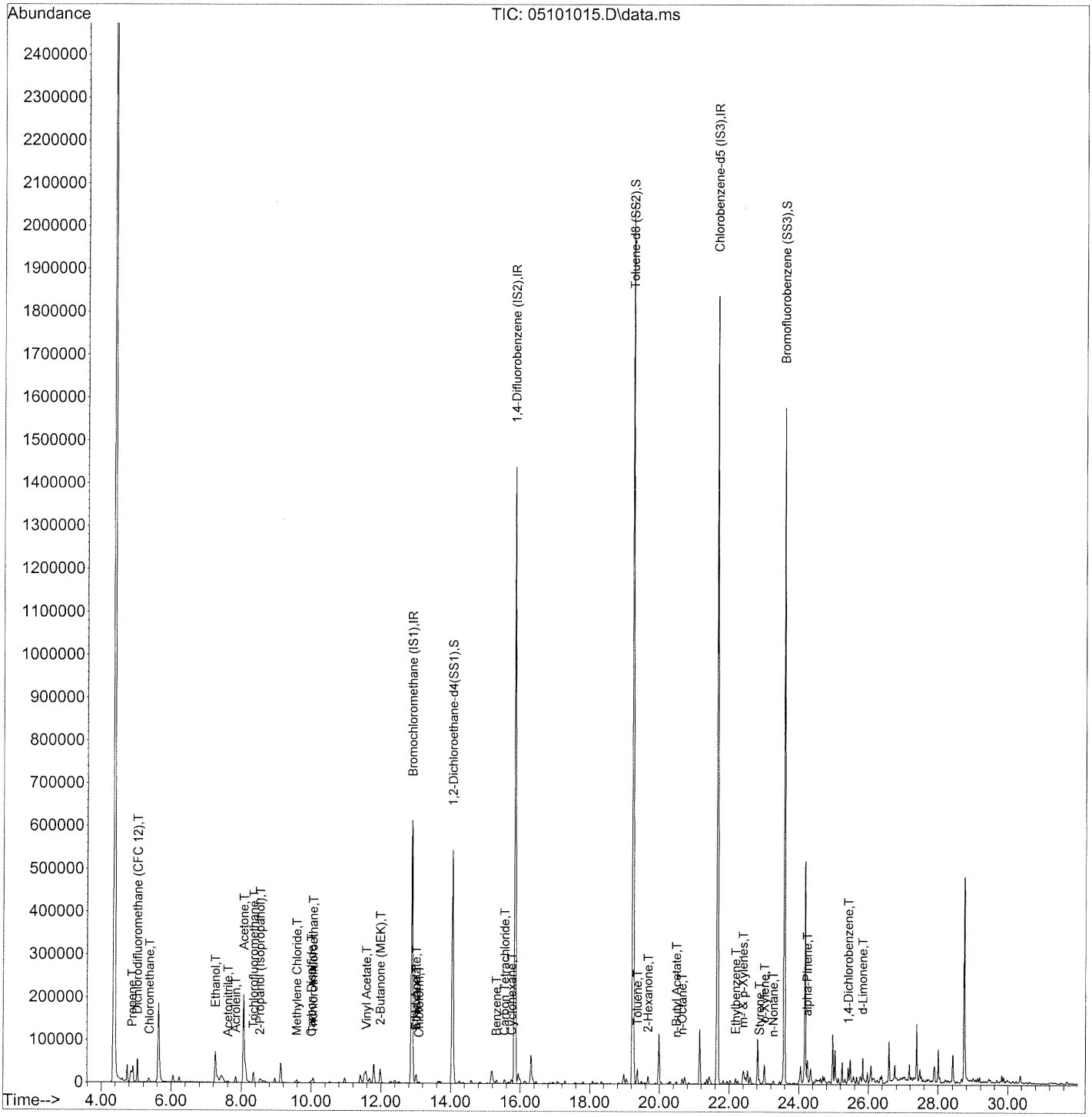
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 14 07:29:59 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 14 07:29:59 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	362908	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1752694	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	731587	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	549063	25.068	ng		0.00
Spiked Amount 25.000			Recovery =	100.28%			✓
57) Toluene-d8 (SS2)	19.24	98	1844172	24.993	ng		0.00
Spiked Amount 25.000			Recovery =	99.96%			✓
73) Bromofluorobenzene (SS3)	23.58	174	627958	24.296	ng		0.00
Spiked Amount 25.000			Recovery =	97.20%			✓
Target Compounds							Qvalue
2) Propene	4.88	42	8370m	0.407	ng		
3) Dichlorodifluoromethan...	5.03	85	57812	1.196	ng		100
4) Chloromethane	5.37	50	7106	0.242	ng		97
10) Ethanol	7.25	45	187054m	14.937	ng		
11) Acetonitrile	7.61	41	4752	0.157	ng		90
12) Acrolein	7.83	56	16227	1.314	ng		100
13) Acetone	8.06	58	111358m	6.959	ng		
14) Trichlorofluoromethane	8.35	101	26582	0.604	ng		97
15) 2-Propanol (Isopropanol)	8.53	45	29732m	0.638	ng		
19) Methylene Chloride	9.58	84	2763	0.115	ng	#	72
21) Trichlorotrifluoroethane	10.05	151	6100	0.277	ng	#	77
22) Carbon Disulfide	10.00	76	10727	0.138	ng		97
26) Vinyl Acetate	11.58	86	6316	1.134	ng	#	1
27) 2-Butanone (MEK)	11.98	72	16337	1.112	ng	#	68
30) Ethyl Acetate	13.01	61	1739	0.223	ng		95
31) n-Hexane	13.01	57	9057	0.243	ng		97
32) Chloroform	13.09	83	3594	0.091	ng		92
41) Benzene	15.31	78	11228	0.113	ng		97
42) Carbon Tetrachloride	15.55	117	8173	0.267	ng		98
43) Cyclohexane	15.75	84	5680	0.153	ng	#	81
58) Toluene	19.37	91	35351	0.340	ng		98
59) 2-Hexanone	19.67	43	15083	0.342	ng		99
62) n-Butyl Acetate	20.48	43	5264	0.105	ng		96
63) n-Octane	20.65	57	1800	0.096	ng	#	85
66) Ethylbenzene	22.19	91	14061	0.123	ng		98
67) m- & p-Xylenes	22.40	91	24812	0.275	ng		91
69) Styrene	22.87	104	7683	0.108	ng		94
70) o-Xylene	23.01	91	8871	0.097	ng		92
71) n-Nonane	23.27	43	5178	0.129	ng		93
75) alpha-Pinene	24.24	93	26487	0.455	ng		93

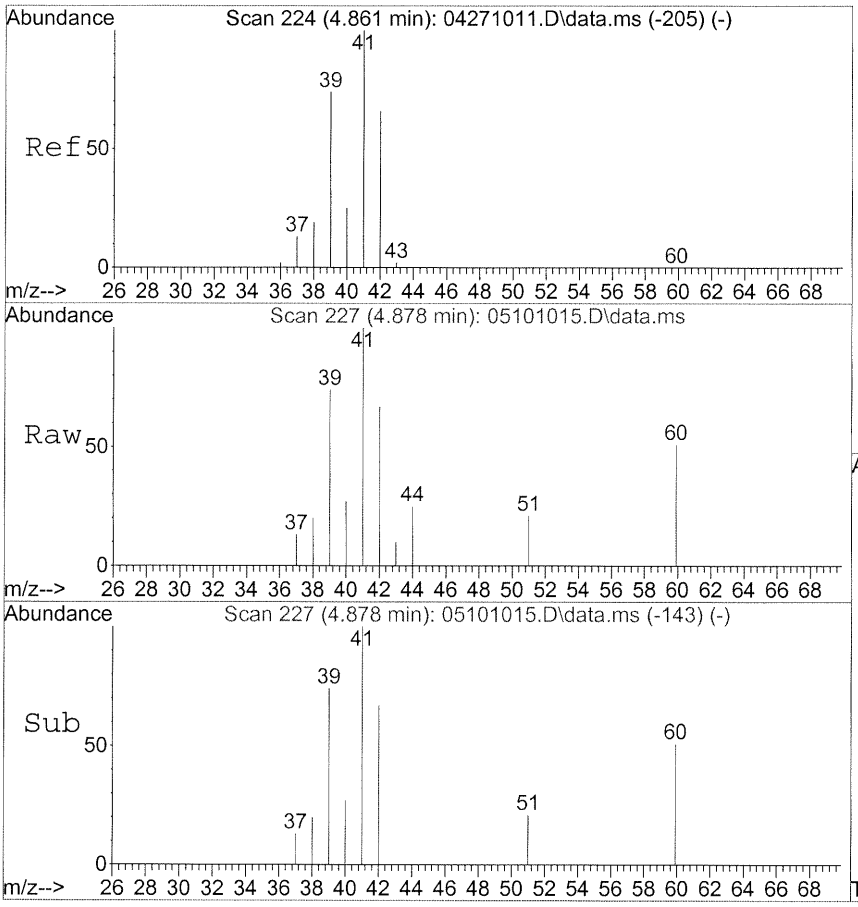
Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 14 07:29:59 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) 1,4-Dichlorobenzene	25.42	146	15984	0.259	ng	98
91) d-Limonene	25.84	68	14802	0.436	ng	85

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

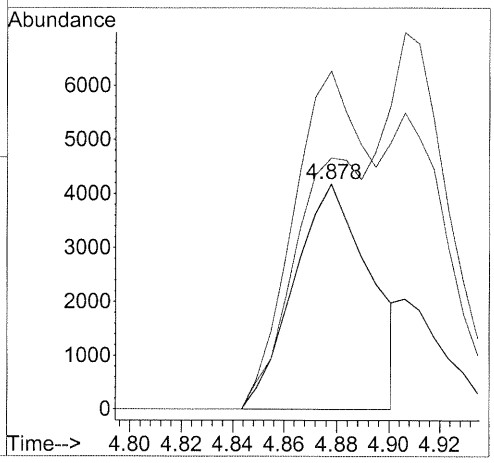
MSA 5/17/10

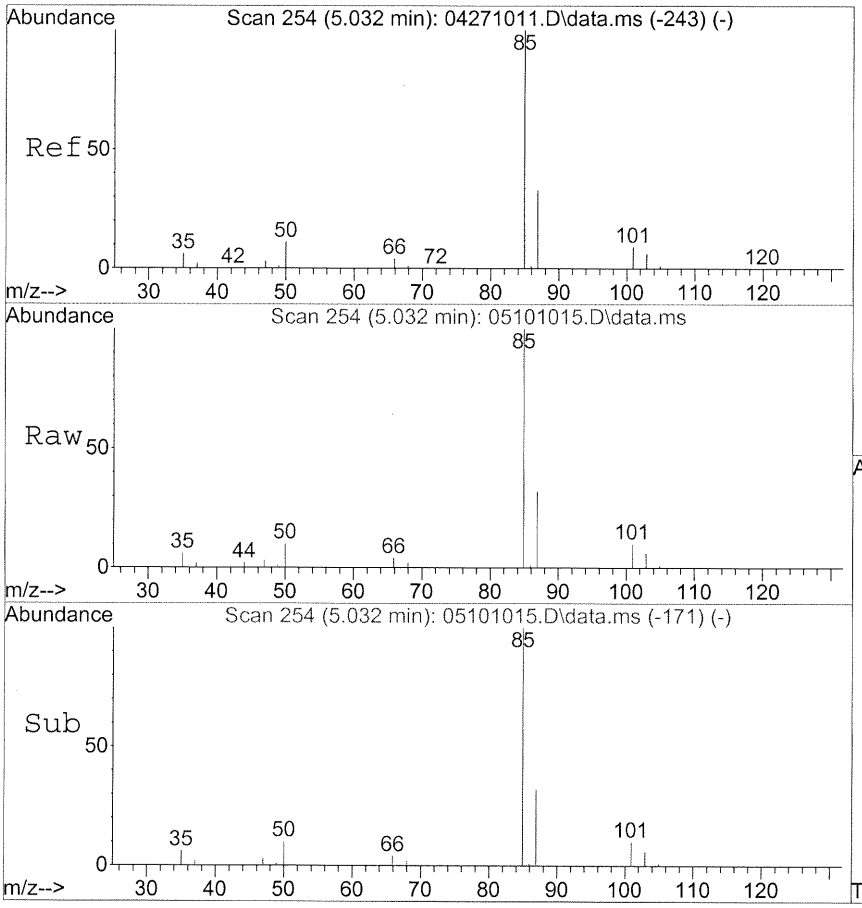


#2
Propene
Concen: 0.41 ng m
RT: 4.88 min Scan# 227
Delta R.T. -0.023 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 42 Resp: 8370

Ion	Ratio	Lower	Upper
42	100		
39	101.3	92.2	132.2
41	255.9	133.9	173.9#

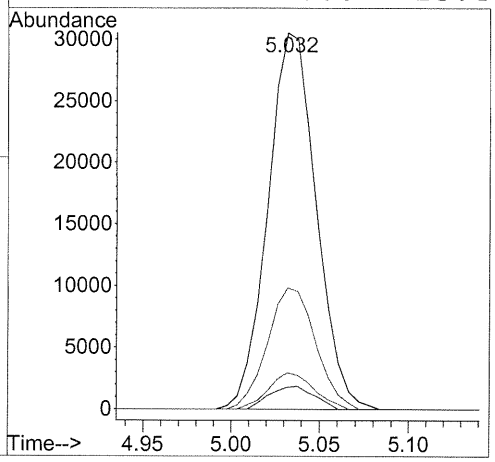


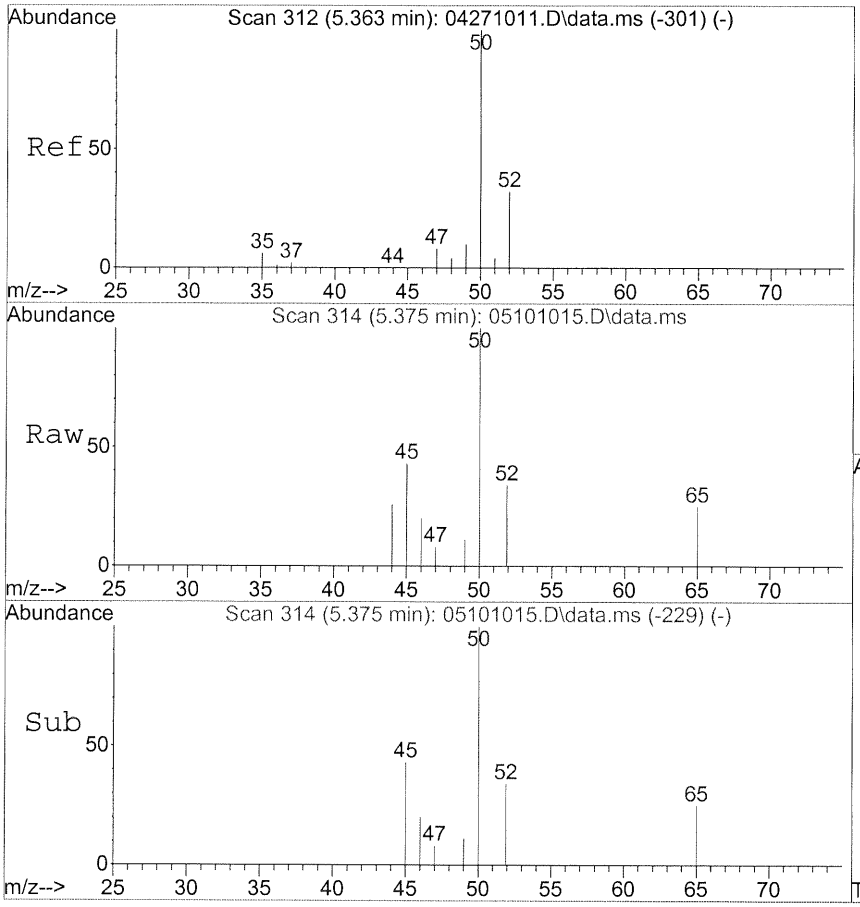


#3
Dichlorodifluoromethane (CFC
Concen: 1.20 ng
RT: 5.03 min Scan# 254
Delta R.T. -0.028 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 85 Resp: 57812

Ion	Ratio	Lower	Upper
85	100		
87	32.1	12.0	52.0
101	9.0	0.0	28.5
103	5.6	0.0	25.4

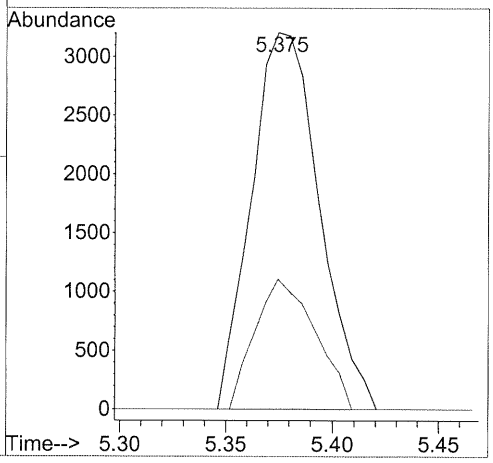


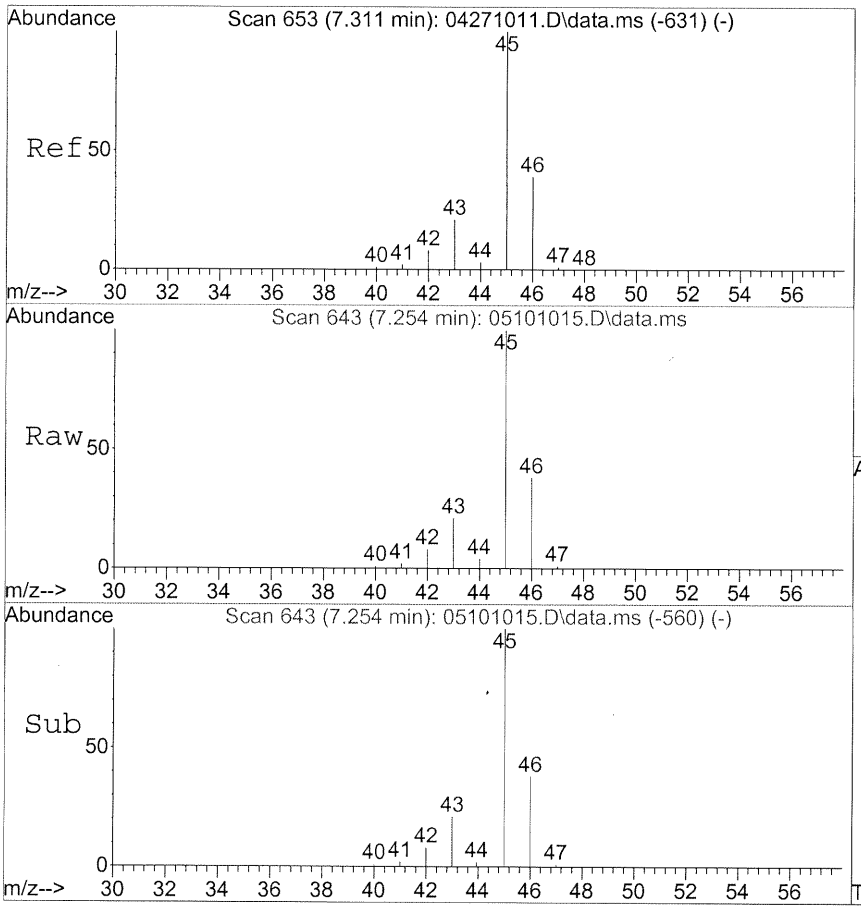


#4
Chloromethane
Concen: 0.24 ng
RT: 5.37 min Scan# 314
Delta R.T. -0.017 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 50 Resp: 7106

Ion	Ratio	Lower	Upper
50	100		
52	30.7	12.1	52.1

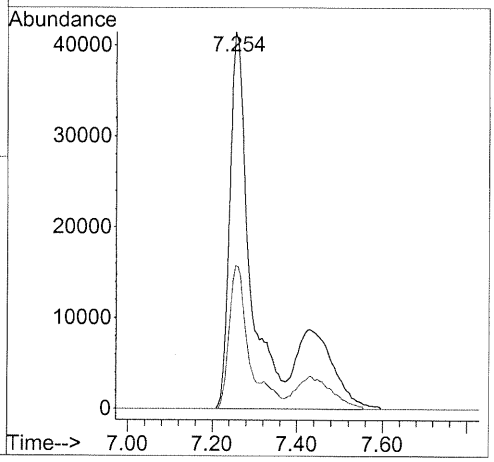


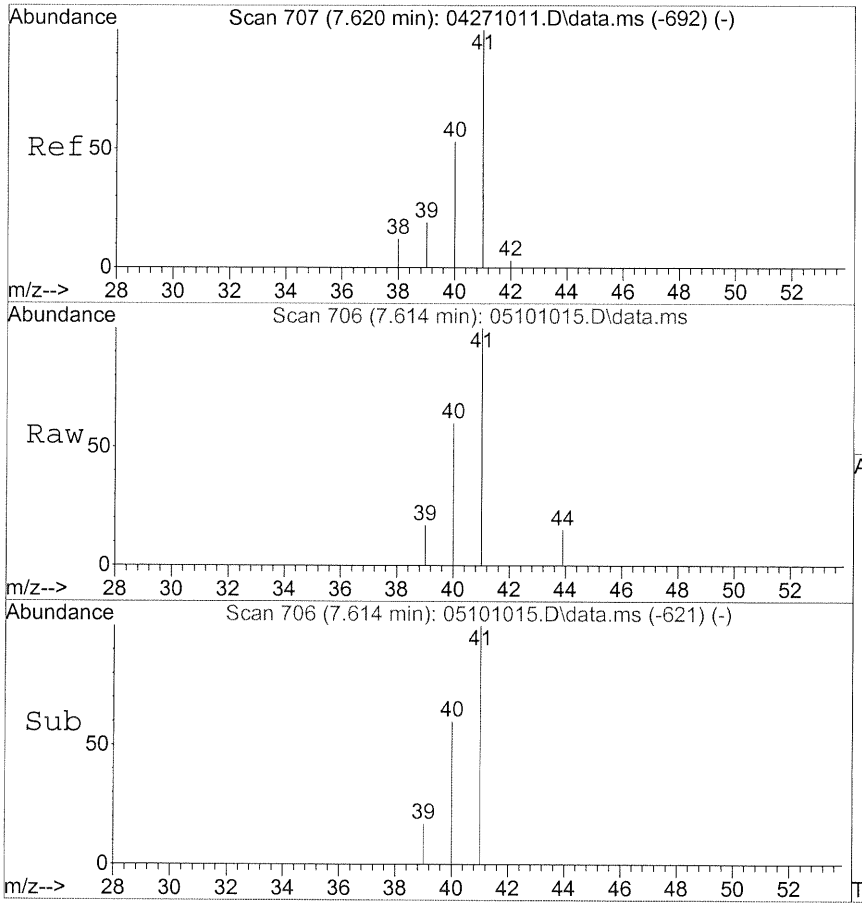


#10
Ethanol
Concen: 14.94 ng m
RT: 7.25 min Scan# 643
Delta R.T. -0.028 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 45 Resp: 187054

Ion	Ratio	Lower	Upper
45	100		
46	27.7	18.4	58.4

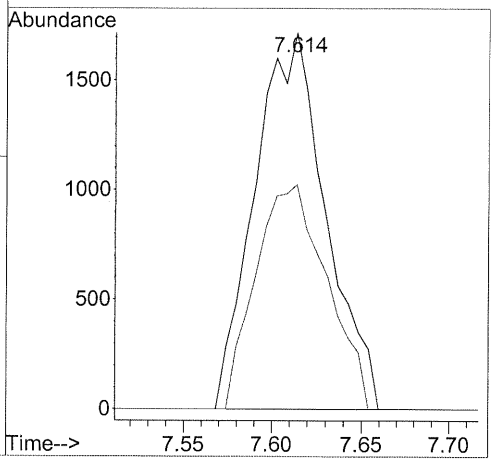


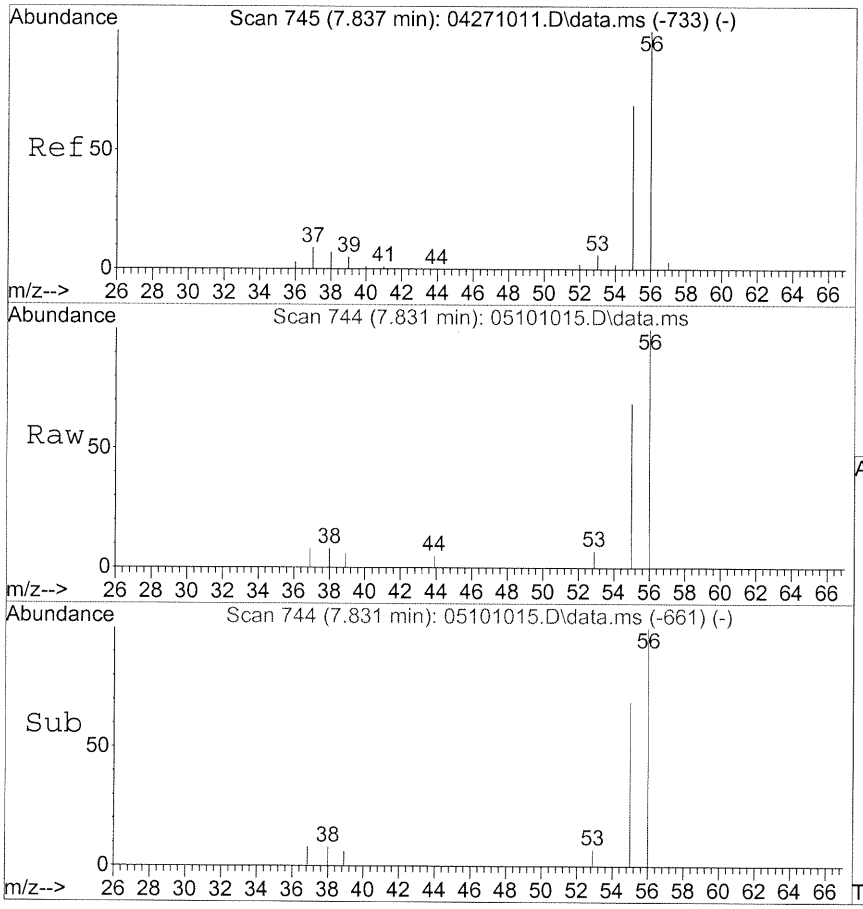


#11
Acetonitrile
Concen: 0.16 ng
RT: 7.61 min Scan# 706
Delta R.T. -0.017 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 41 Resp: 4752

Ion	Ratio	Lower	Upper
41	100		
40	59.7	32.7	72.7

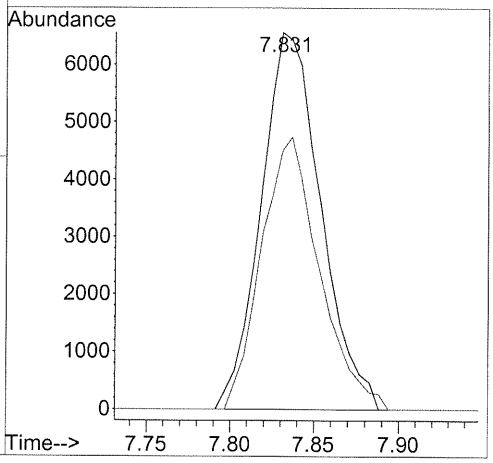


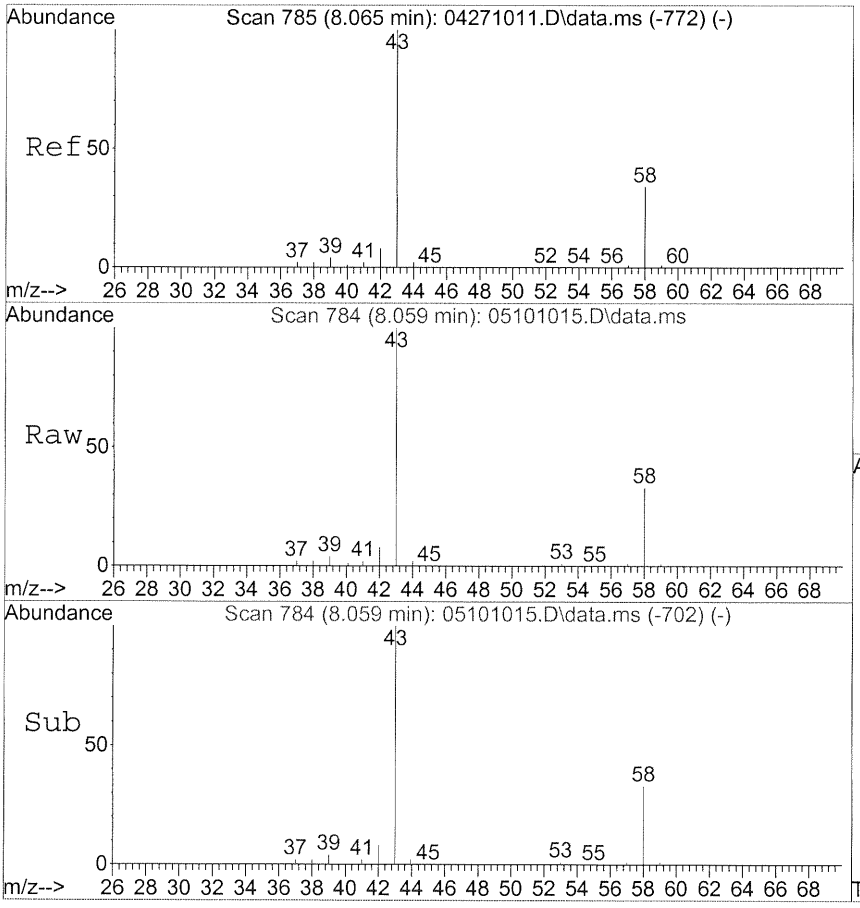


#12
Acrolein
Concen: 1.31 ng
RT: 7.83 min Scan# 744
Delta R.T. -0.028 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 56 Resp: 16227

Ion	Ratio	Lower	Upper
56	100		
55	70.2	50.5	90.5

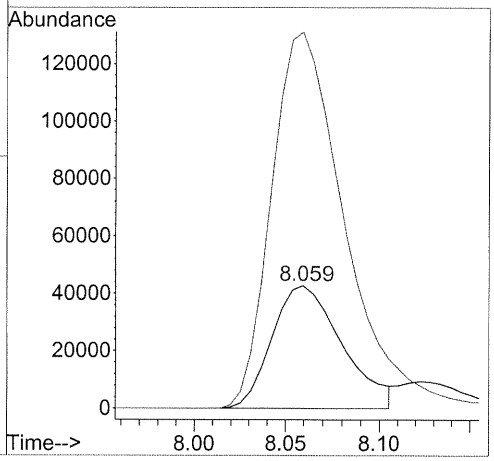


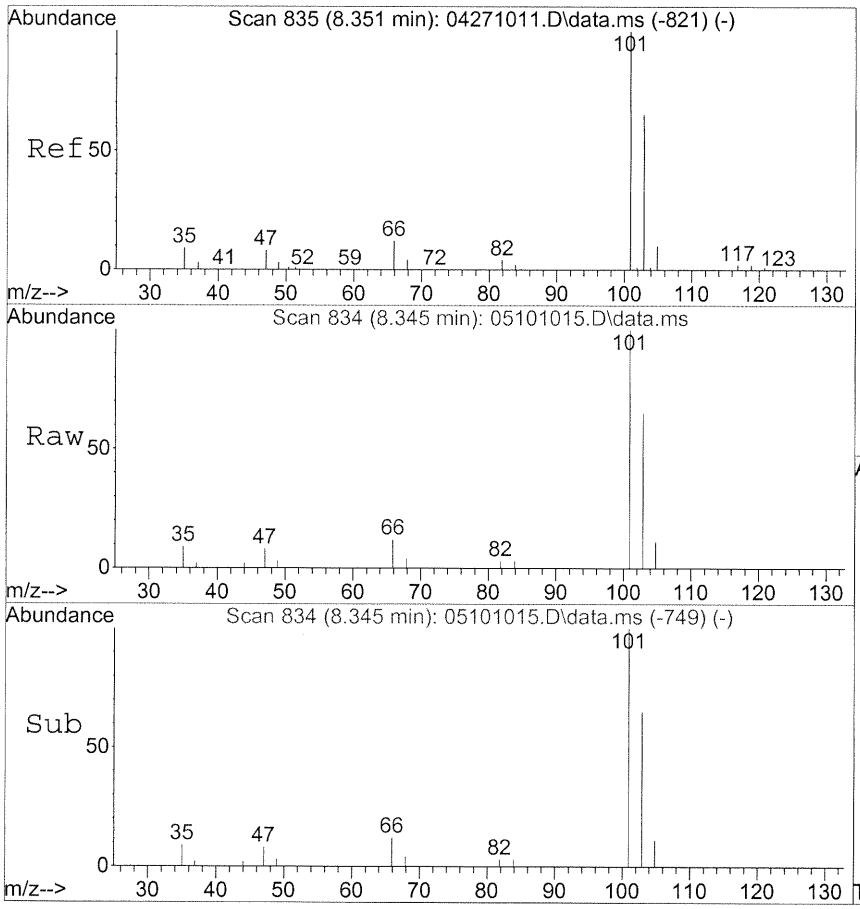


#13
Acetone
Concen: 6.96 ng m
RT: 8.06 min Scan# 784
Delta R.T. -0.034 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 58 Resp: 111358

Ion	Ratio	Lower	Upper
58	100		
43	329.0	295.0	355.0

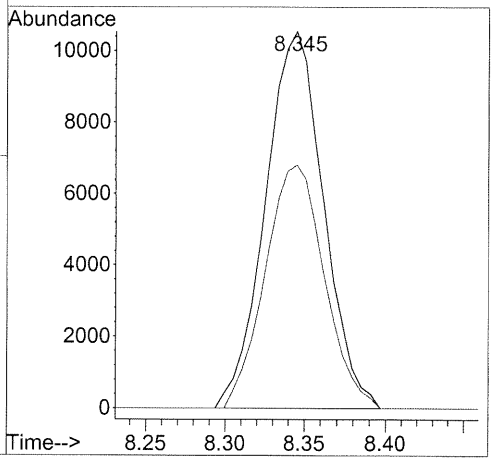


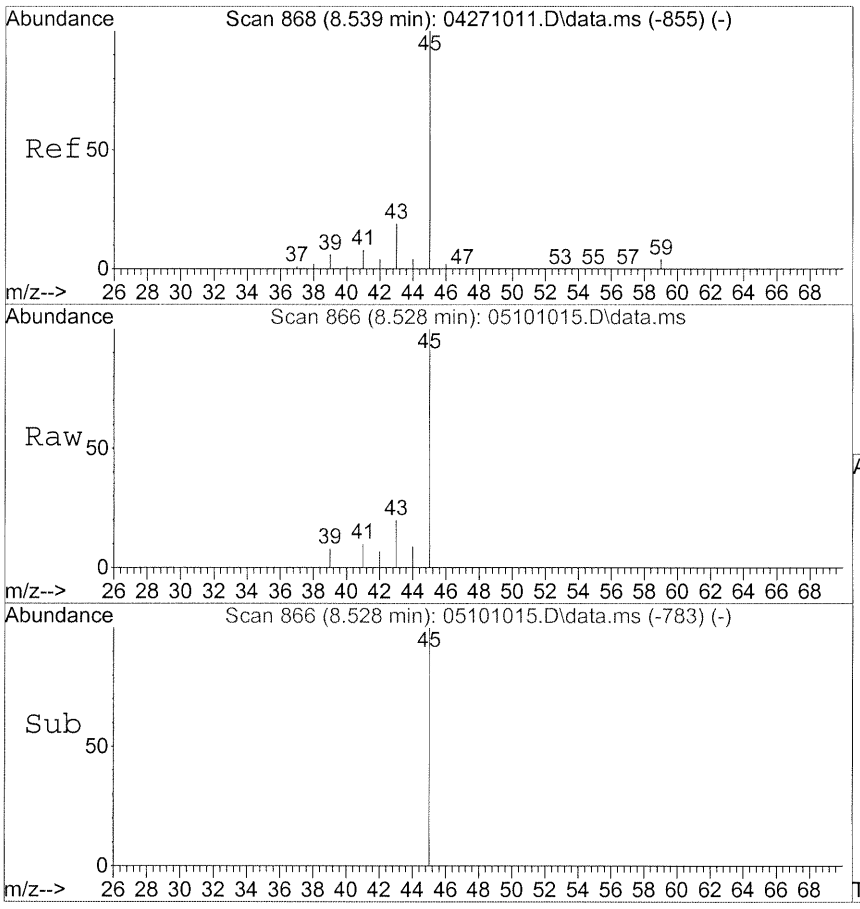


#14
Trichlorofluoromethane
Concen: 0.60 ng
RT: 8.35 min Scan# 834
Delta R.T. -0.017 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion:101 Resp: 26582

Ion	Ratio	Lower	Upper
101	100		
103	65.8	43.8	83.8

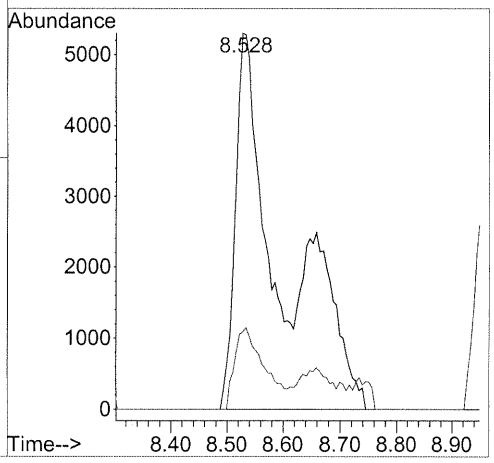


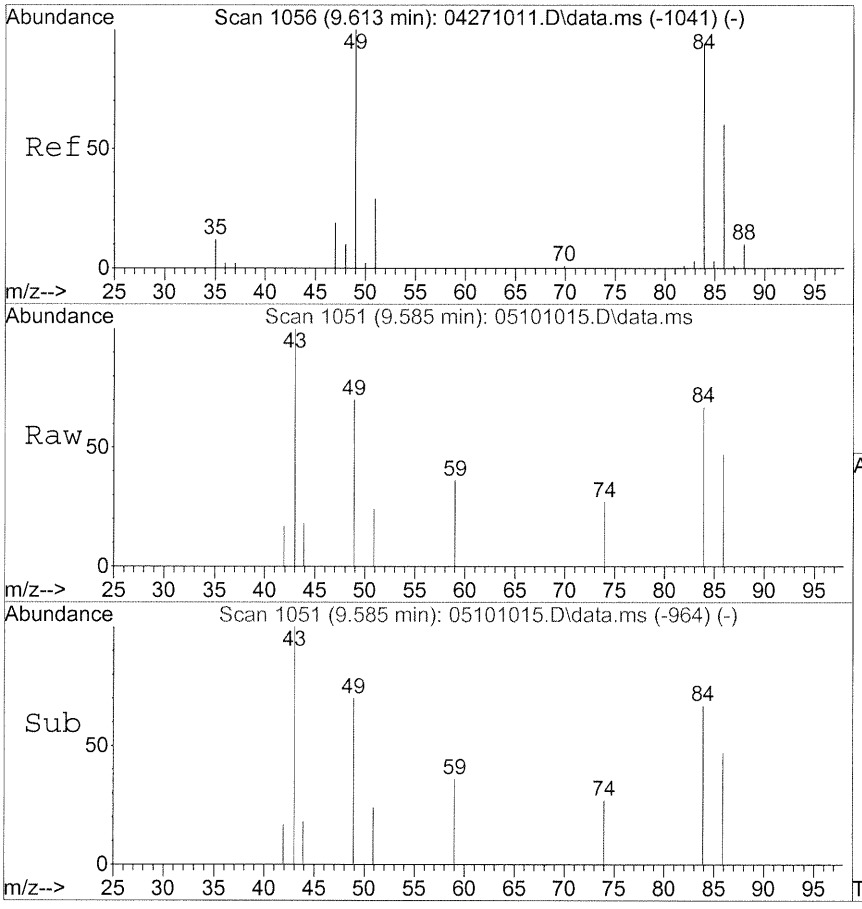


#15
2-Propanol (Isopropanol)
Concen: 0.64 ng m
RT: 8.53 min Scan# 866
Delta R.T. -0.028 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 45 Resp: 29732

Ion	Ratio	Lower	Upper
45	100		
43	15.1	0.0	39.2

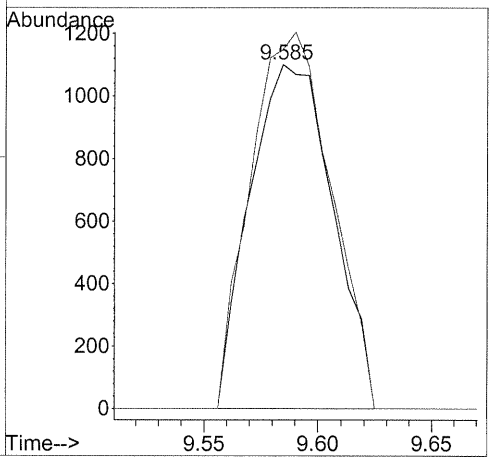


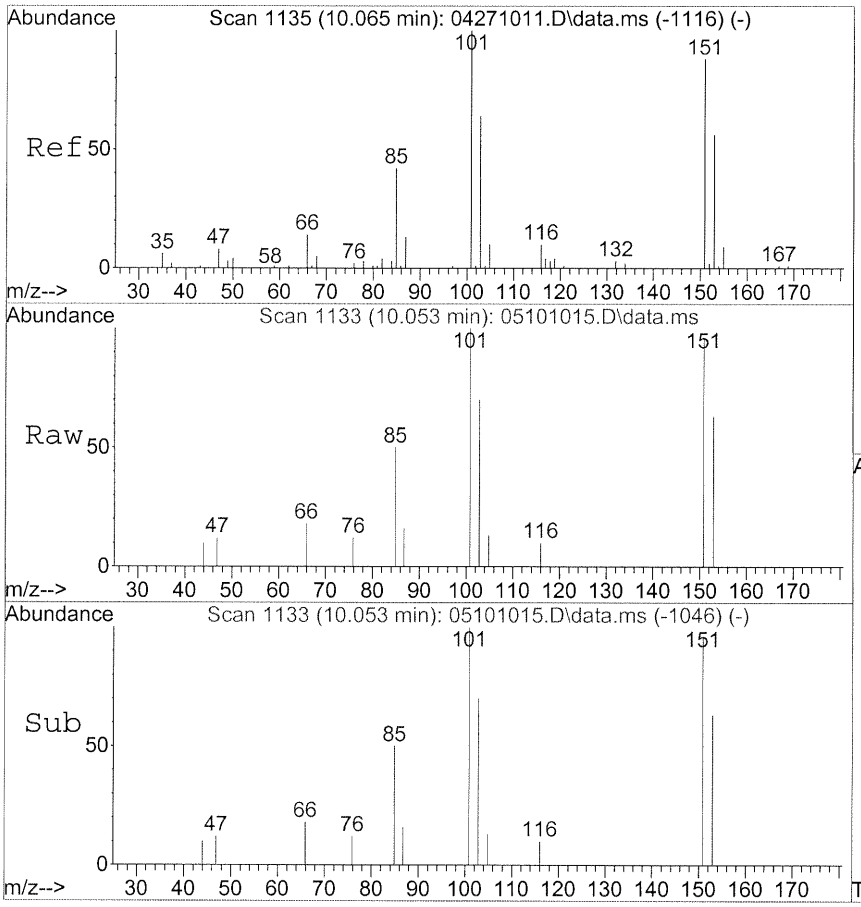


#19
Methylene Chloride
Concen: 0.11 ng
RT: 9.58 min Scan# 1051
Delta R.T. -0.006 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 84 Resp: 2763

Ion	Ratio	Lower	Upper
84	100		
49	107.0	116.6	166.6#

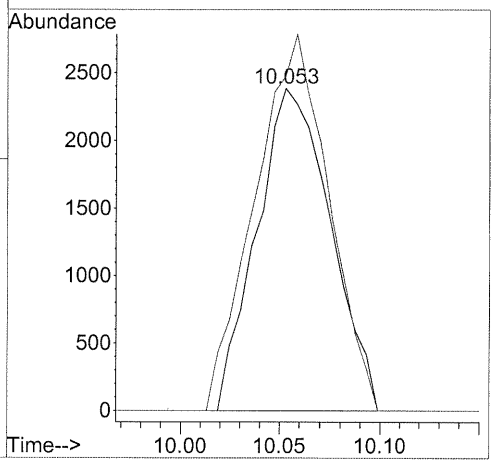


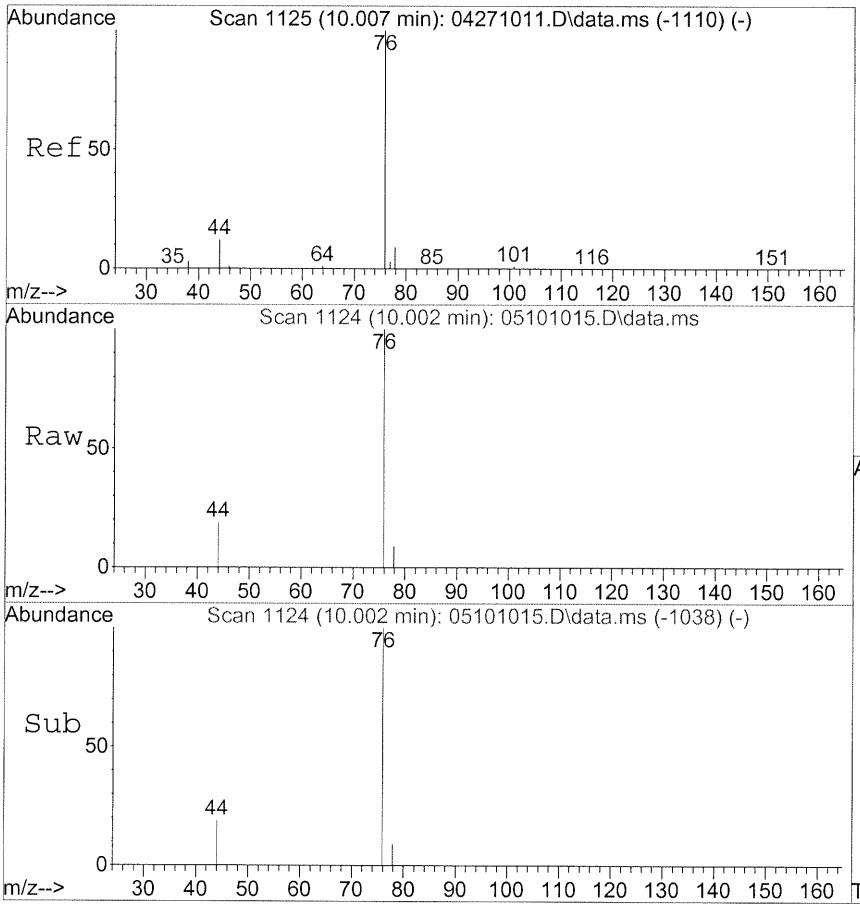


#21
Trichlorotrifluoroethane
Concen: 0.28 ng
RT: 10.05 min Scan# 1133
Delta R.T. -0.006 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion:151 Resp: 6100

Ion	Ratio	Lower	Upper
151	100		
101	116.8	125.6	165.6#

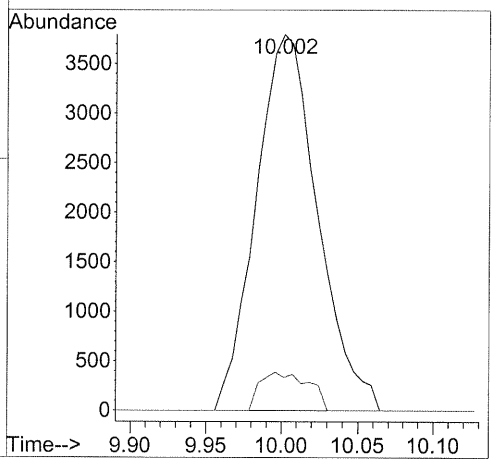


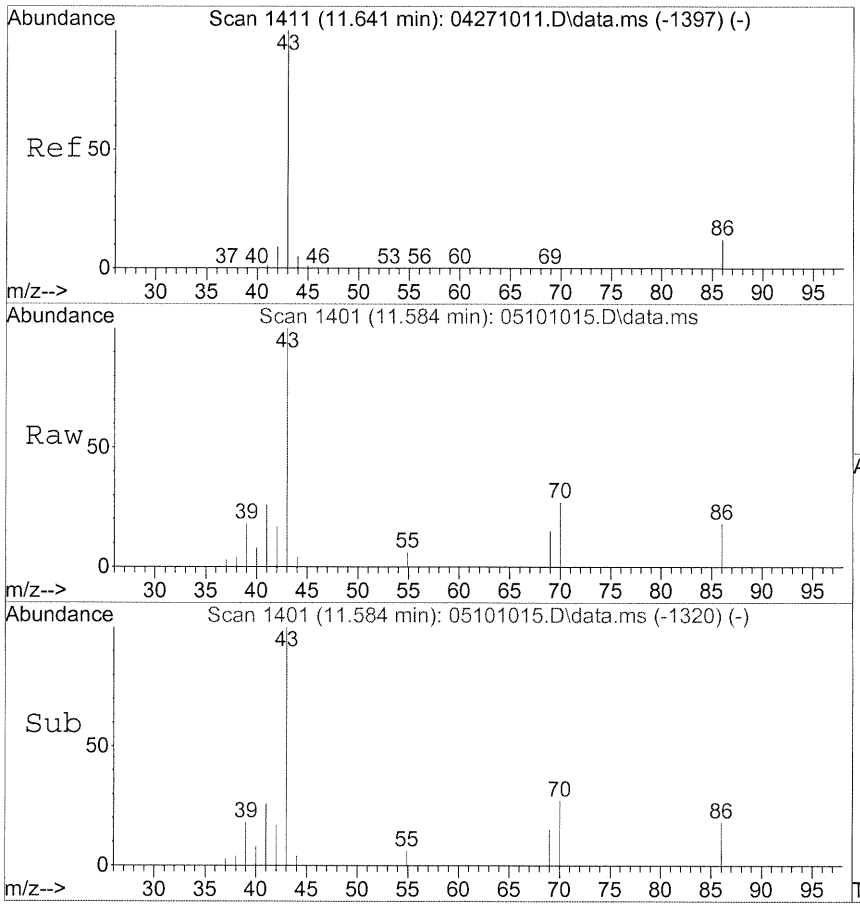


#22
Carbon Disulfide
Concen: 0.14 ng
RT: 10.00 min Scan# 1124
Delta R.T. -0.011 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 76 Resp: 10727

Ion	Ratio	Lower	Upper
76	100		
78	8.0	0.0	29.1

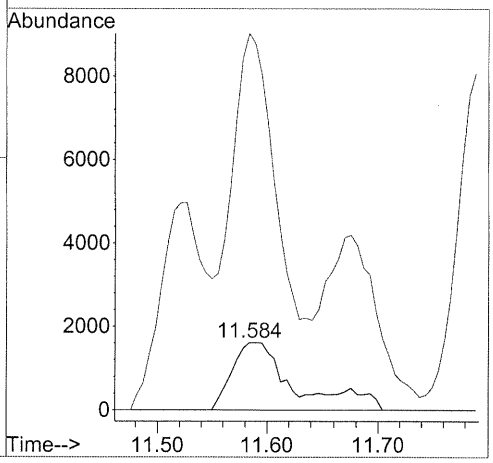


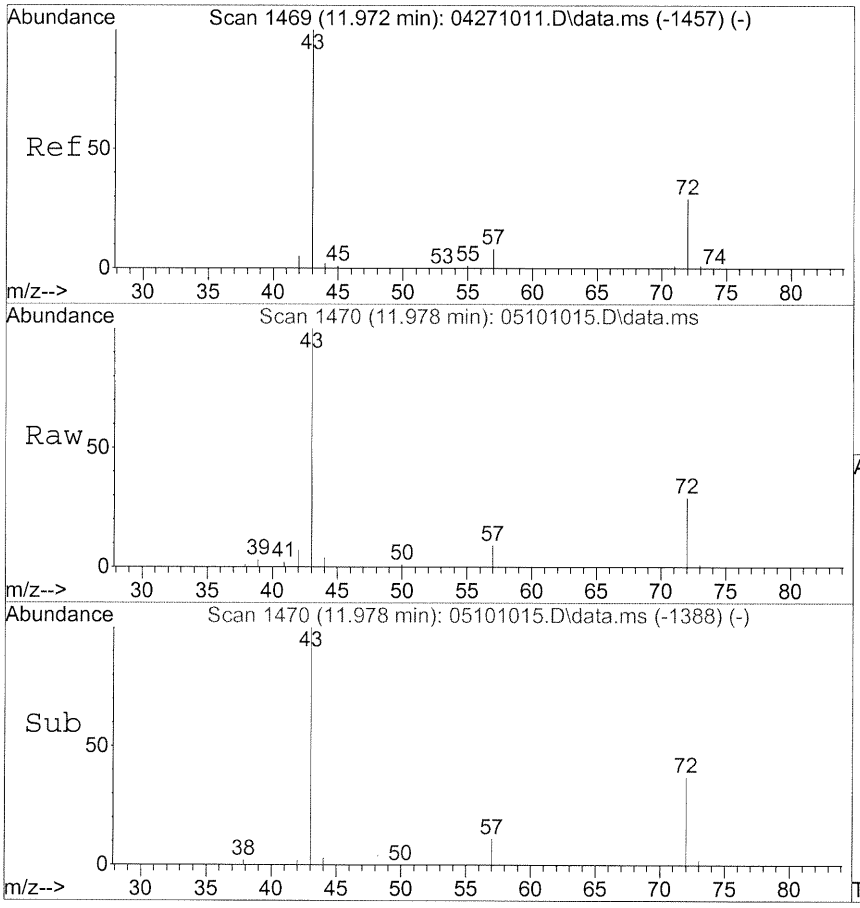


#26
Vinyl Acetate
Concen: 1.13 ng
RT: 11.58 min Scan# 1401
Delta R.T. -0.040 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 86 Resp: 6316

Ion	Ratio	Lower	Upper
86	100		
43	450.2	1285.5	1325.5#

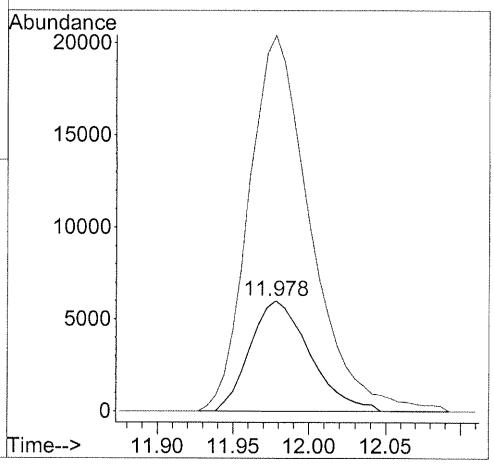


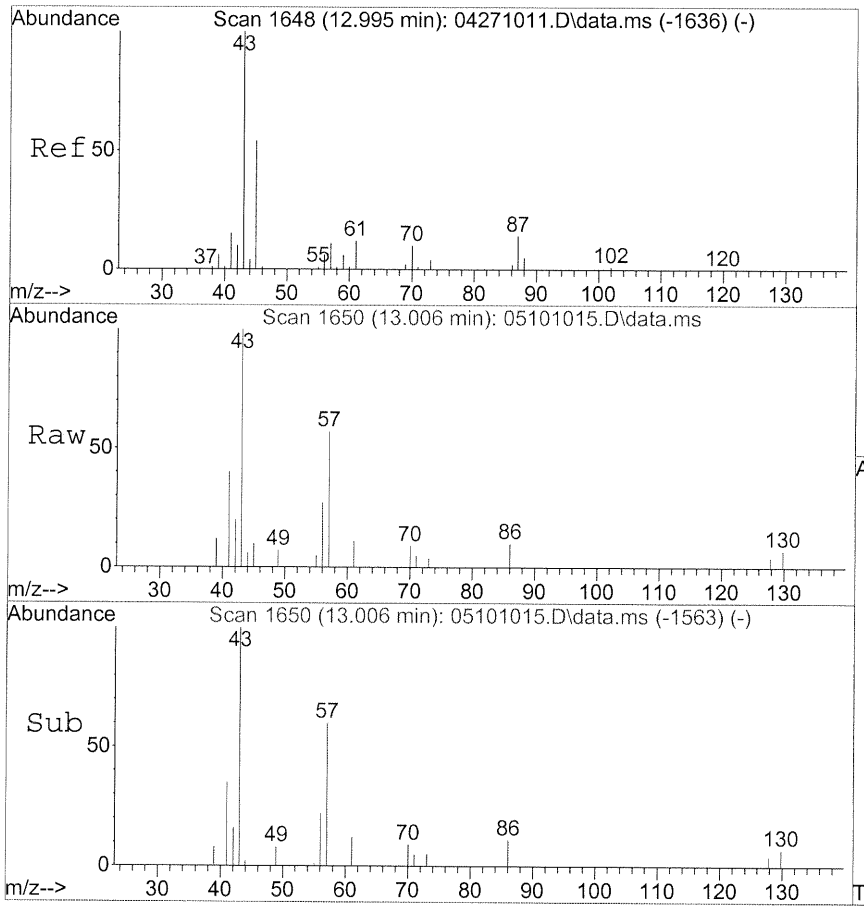


#27
2-Butanone (MEK)
Concen: 1.11 ng
RT: 11.98 min Scan# 1470
Delta R.T. -0.034 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 72 Resp: 16337

Ion	Ratio	Lower	Upper
72	100		
43	352.0	412.3	452.3#

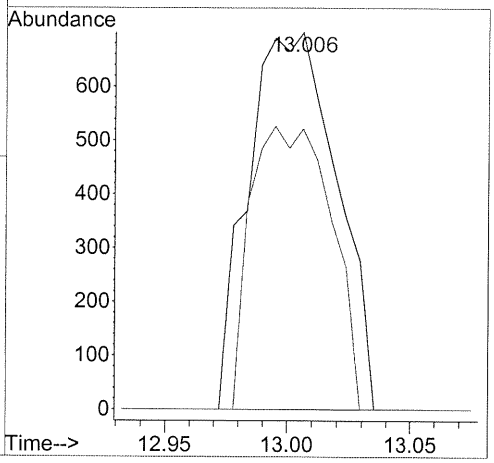


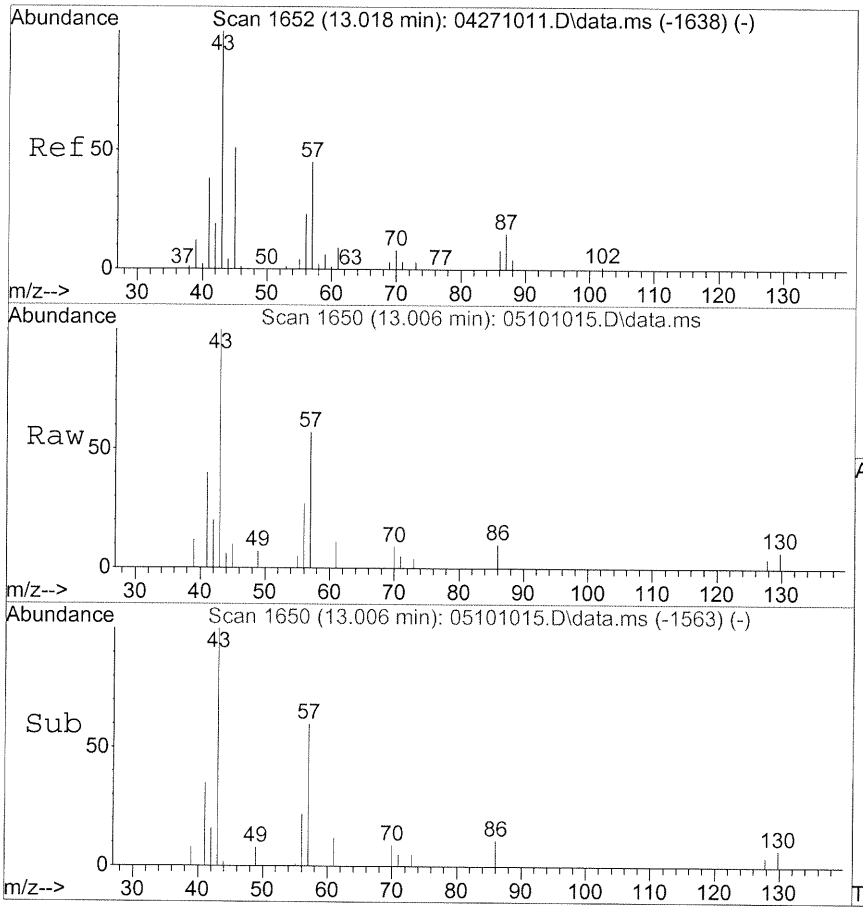


#30
Ethyl Acetate
Concen: 0.22 ng
RT: 13.01 min Scan# 1650
Delta R.T. -0.006 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 61 Resp: 1739

Ion	Ratio	Lower	Upper
61	100		
70	68.4	52.2	92.2

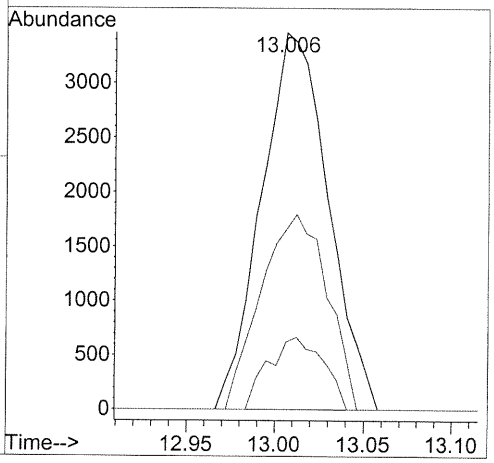


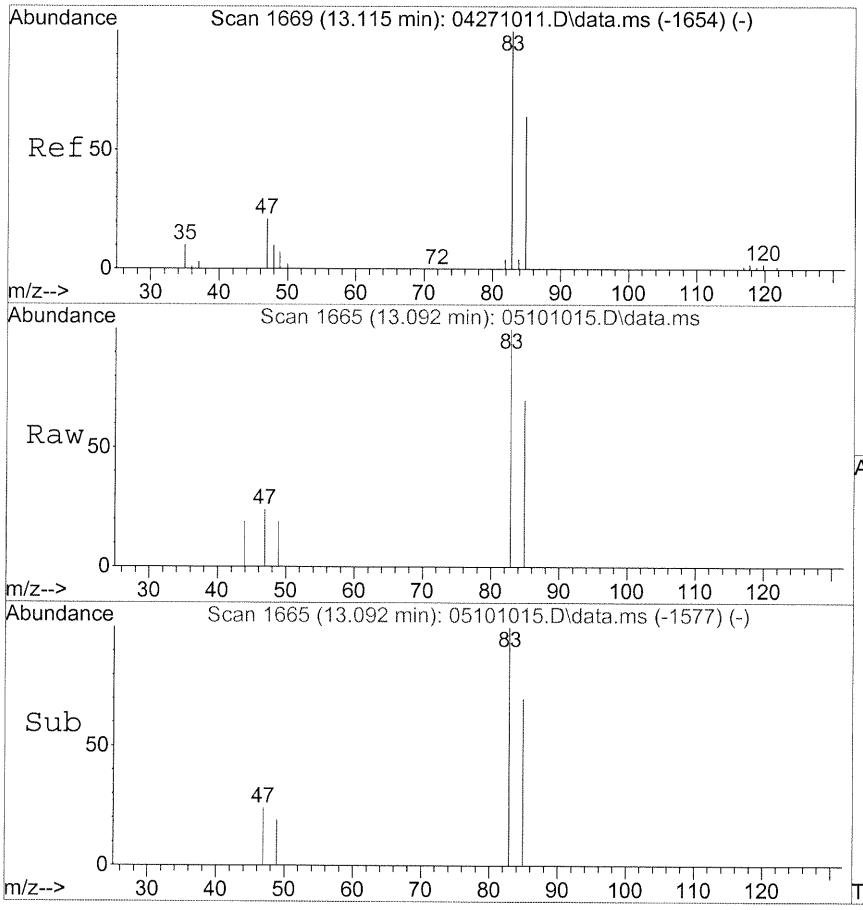


#31
n-Hexane
Concen: 0.24 ng
RT: 13.01 min Scan# 1650
Delta R.T. -0.006 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 57 Resp: 9057

Ion	Ratio	Lower	Upper
57	100		
56	51.7	40.0	60.0
86	15.8	11.5	17.3

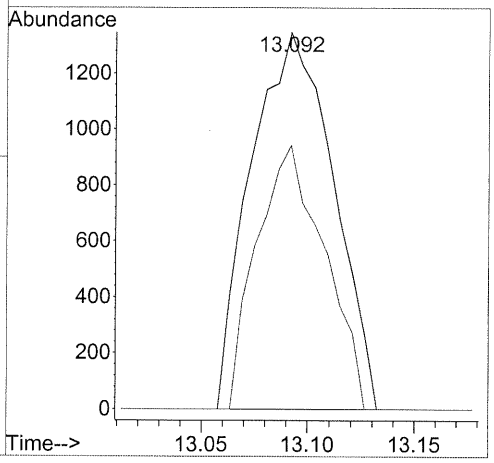


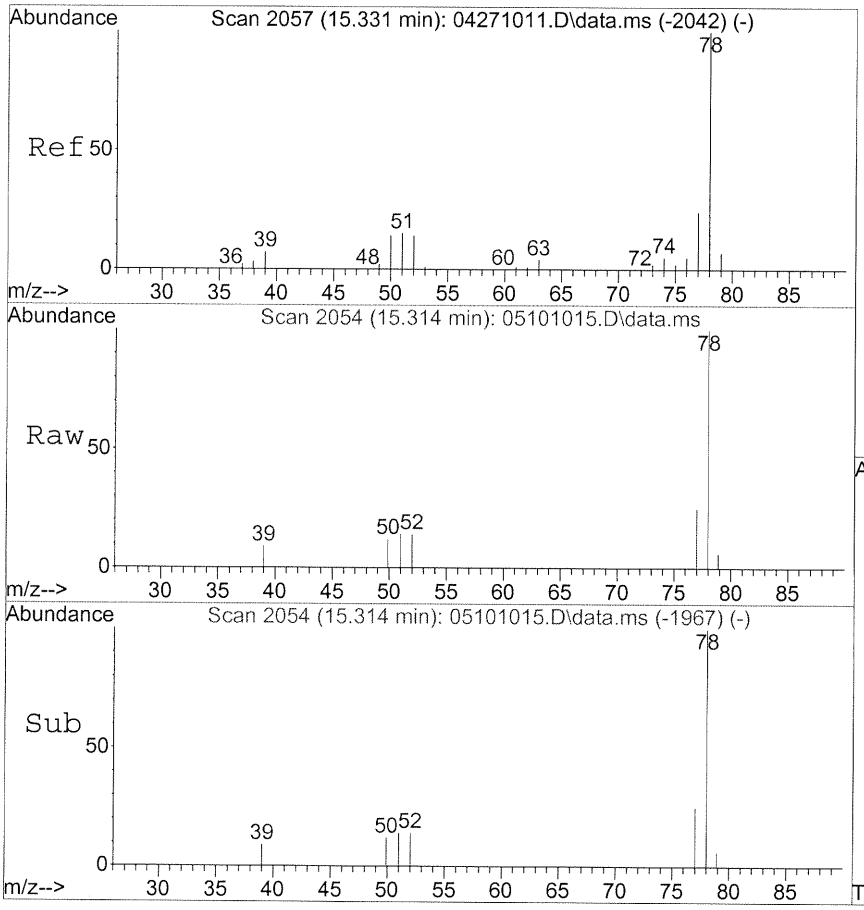


#32
Chloroform
Concen: 0.09 ng
RT: 13.09 min Scan# 1665
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 83 Resp: 3594

Ion	Ratio	Lower	Upper
83	100		
85	57.7	44.0	84.0

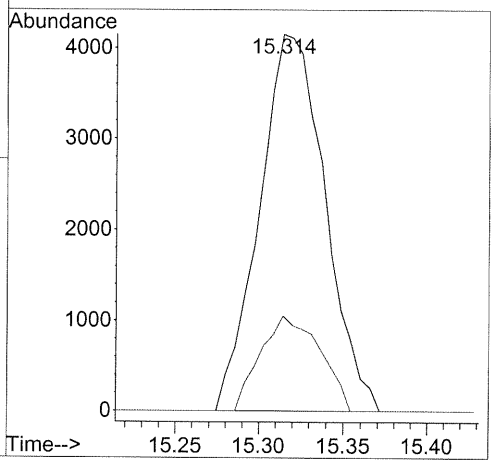


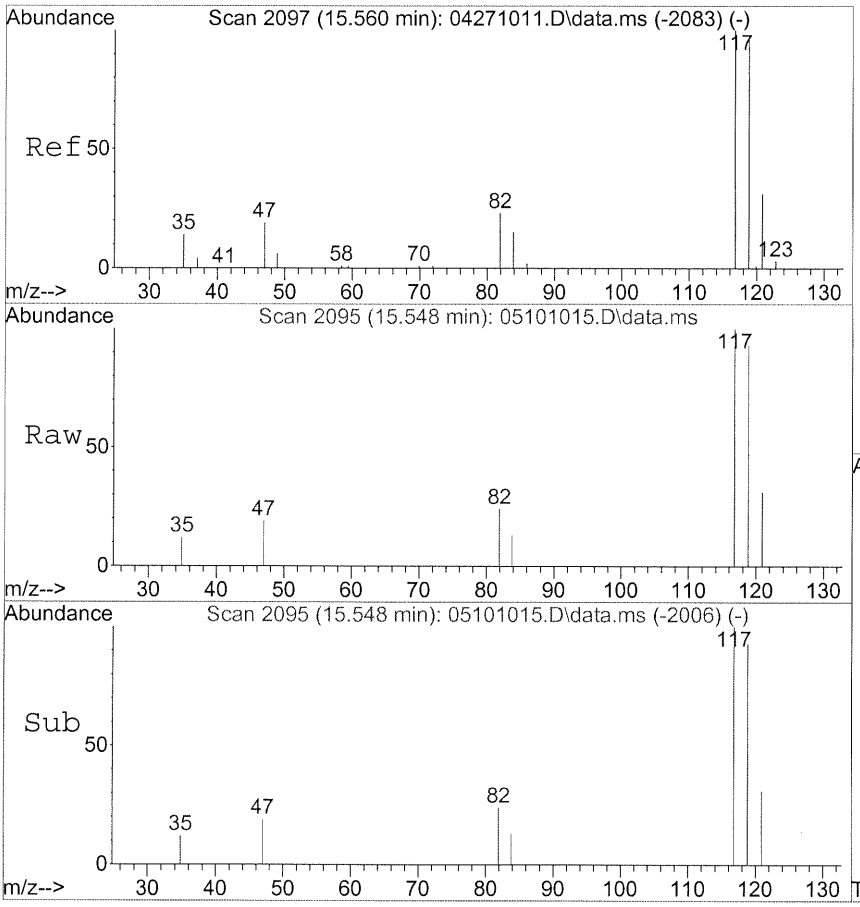


#41
Benzene
Concen: 0.11 ng
RT: 15.31 min Scan# 2054
Delta R.T. -0.006 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 78 Resp: 11228

Ion	Ratio	Lower	Upper
78	100		
77	23.0	4.4	44.4

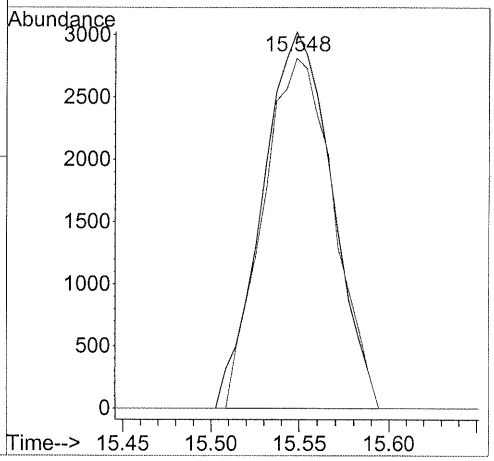


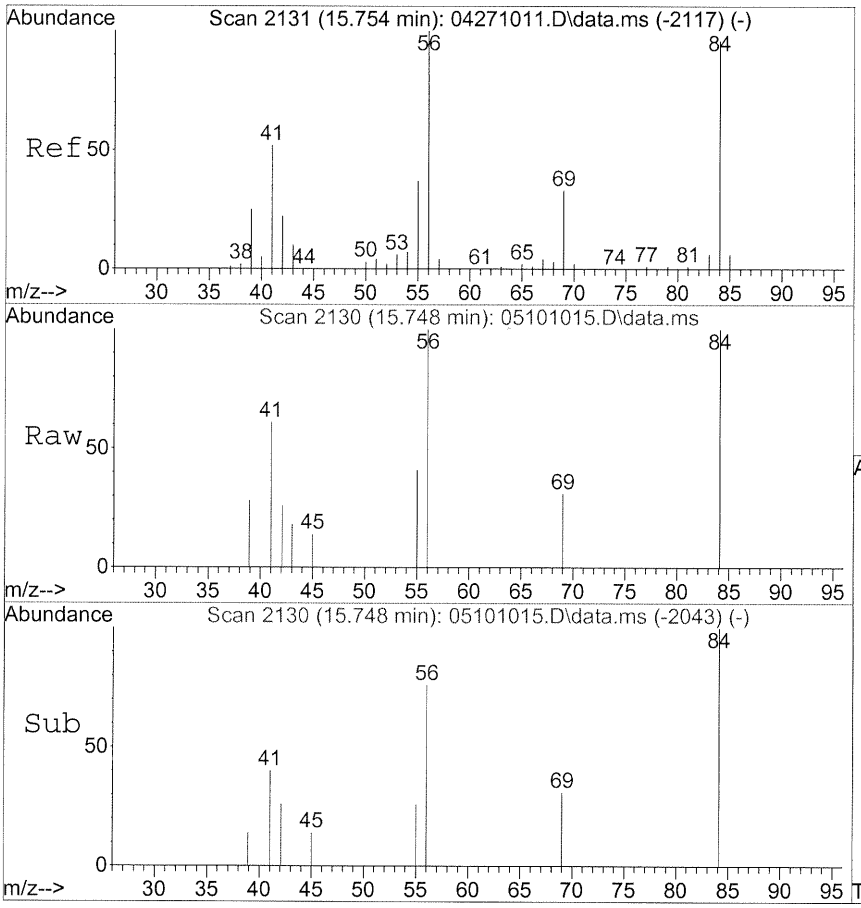


#42
Carbon Tetrachloride
Concen: 0.27 ng
RT: 15.55 min Scan# 2095
Delta R.T. 0.006 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion:117 Resp: 8173

Ion	Ratio	Lower	Upper
117	100		
119	94.2	75.8	115.8

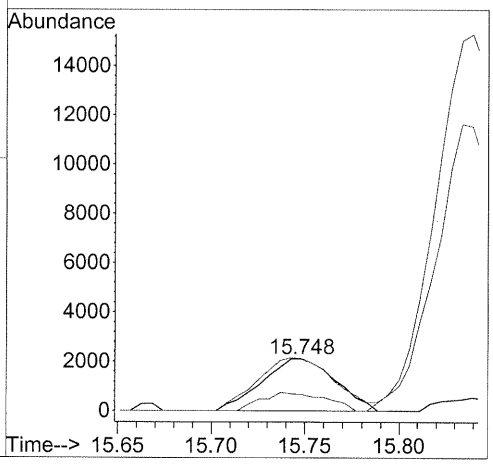


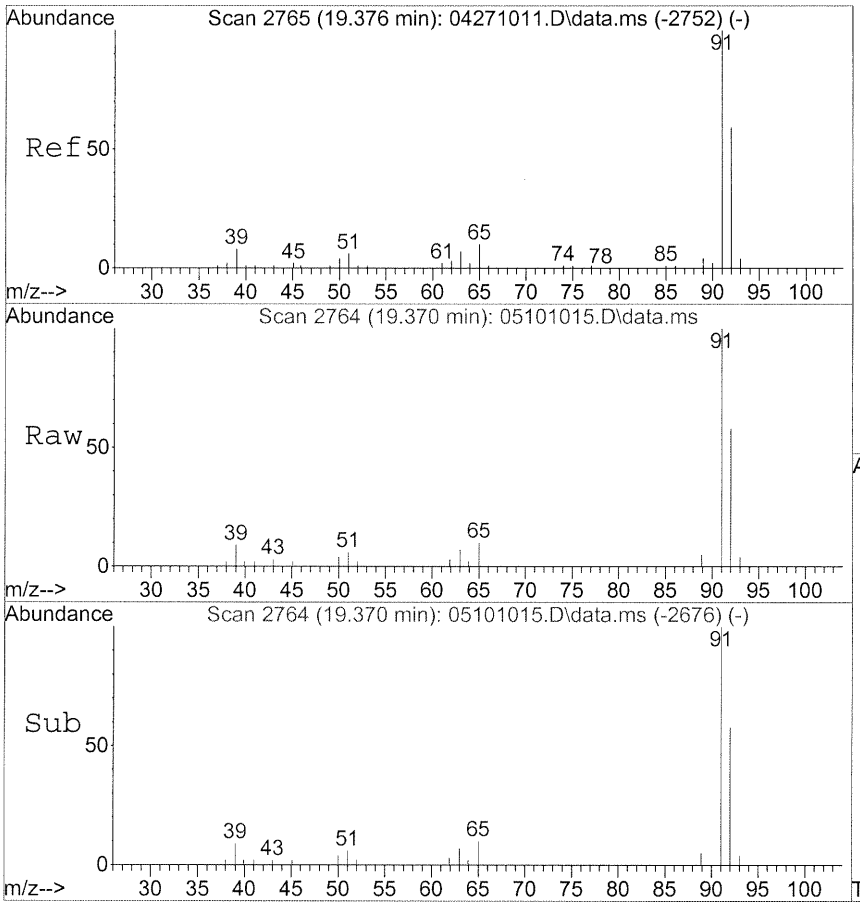


#43
Cyclohexane
Concen: 0.15 ng
RT: 15.75 min Scan# 2130
Delta R.T. -0.006 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 84 Resp: 5680

Ion	Ratio	Lower	Upper
84	100		
69	30.9	18.4	58.4
56	108.5	112.6	152.6#

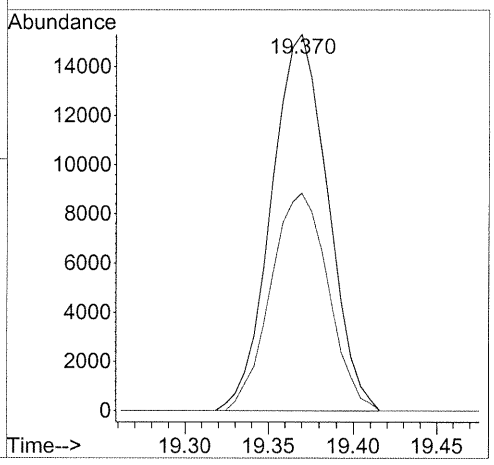


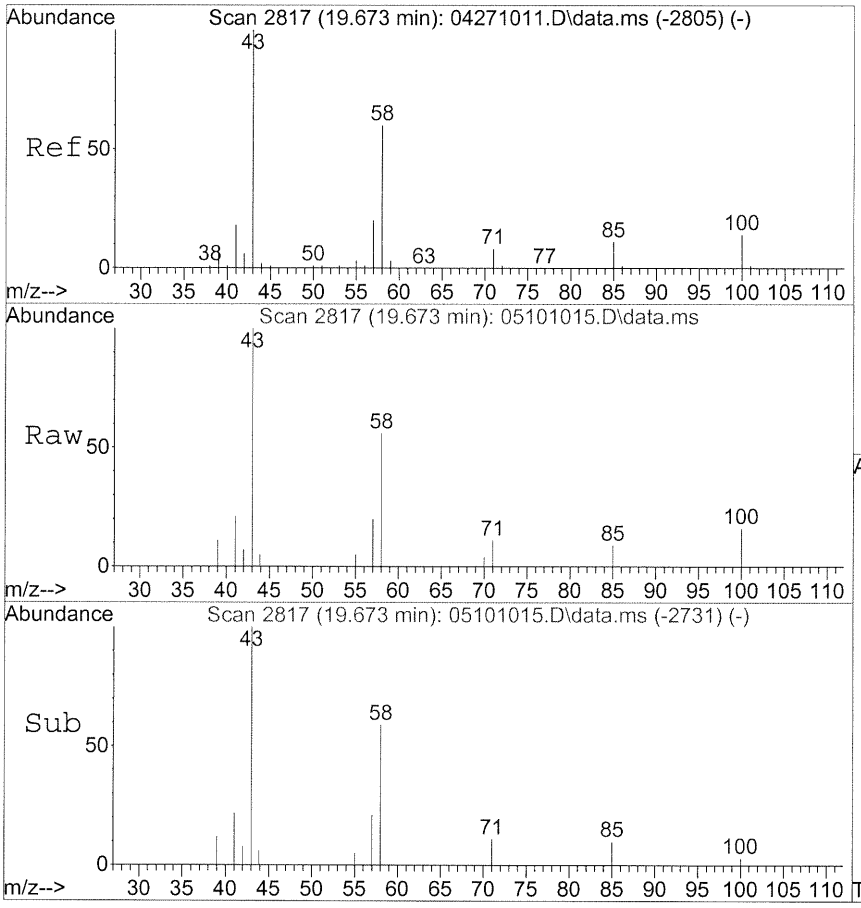


#58
Toluene
Concen: 0.34 ng
RT: 19.37 min Scan# 2764
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 91 Resp: 35351

Ion	Ratio	Lower	Upper
91	100		
92	59.0	37.6	77.6

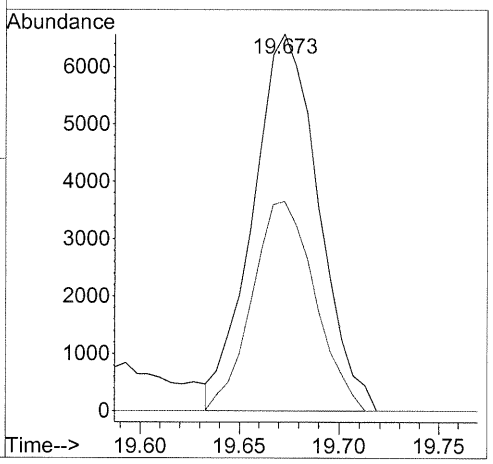


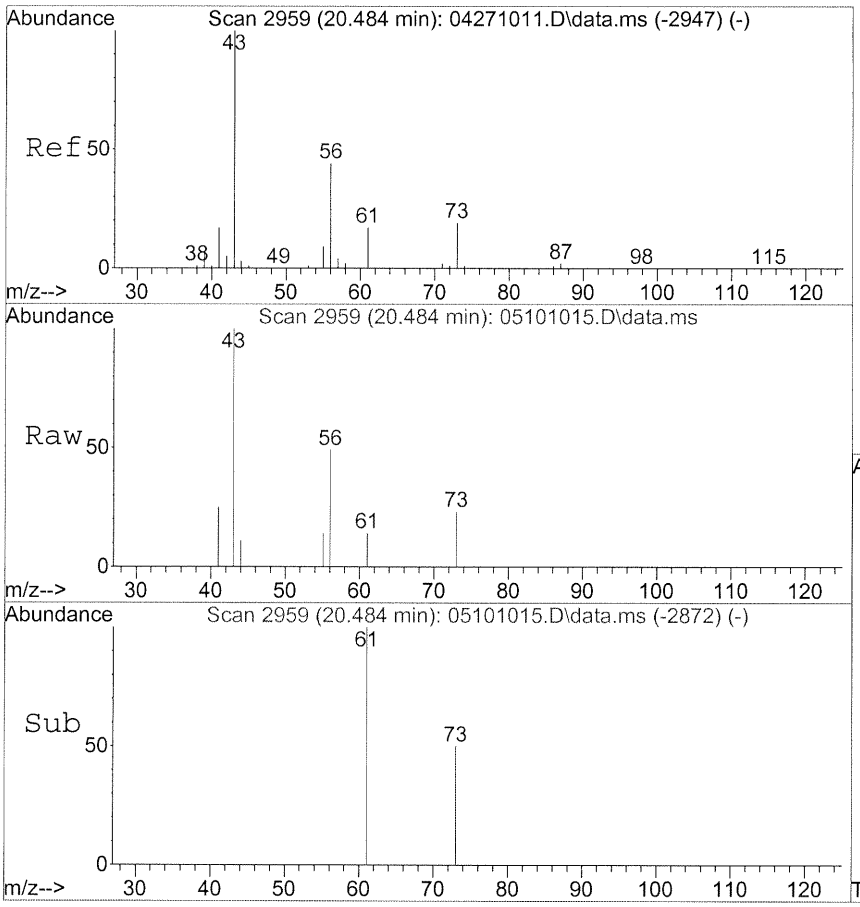


#59
2-Hexanone
Concen: 0.34 ng
RT: 19.67 min Scan# 2817
Delta R.T. -0.011 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 43 Resp: 15083

Ion	Ratio	Lower	Upper
43	100		
58	52.9	33.3	73.3

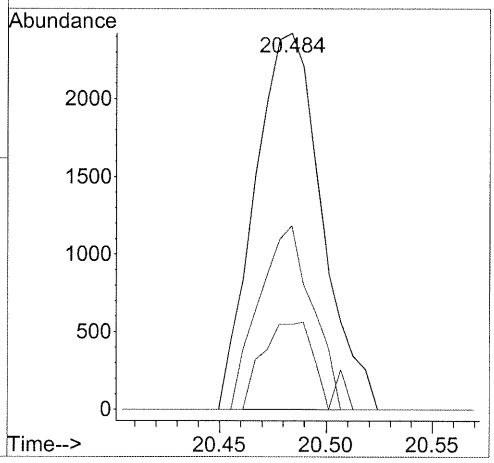


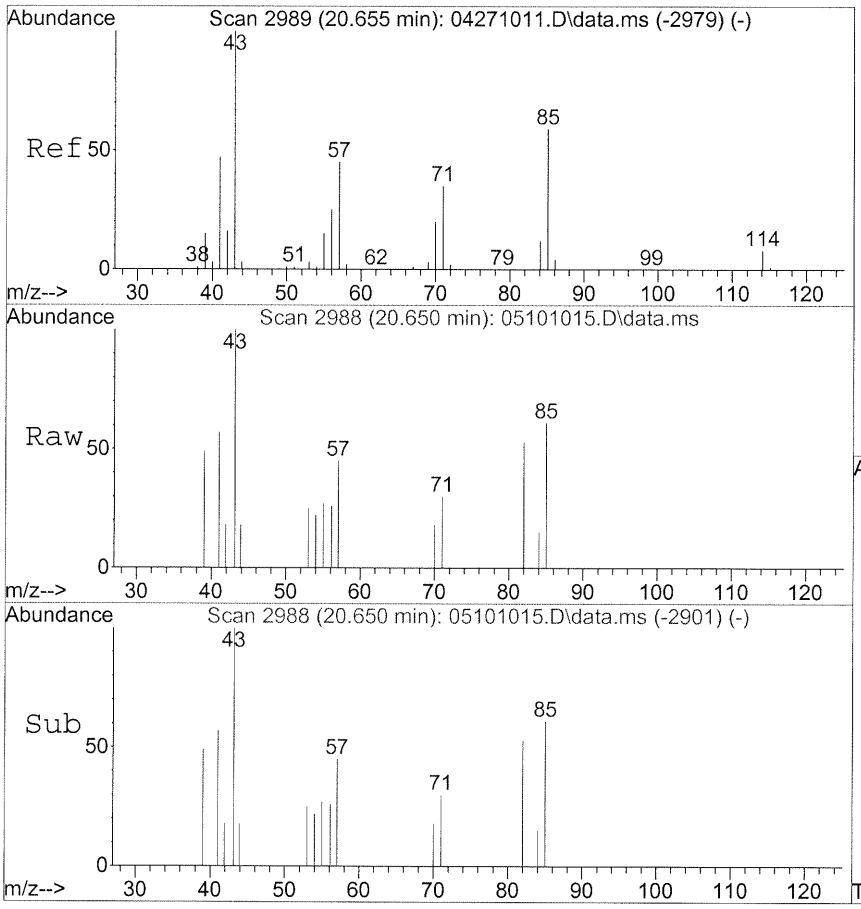


#62
n-Butyl Acetate
Concen: 0.10 ng
RT: 20.48 min Scan# 2959
Delta R.T. -0.006 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 43 Resp: 5264

Ion	Ratio	Lower	Upper
43	100		
56	39.0	19.7	59.7
73	19.0	0.0	34.2

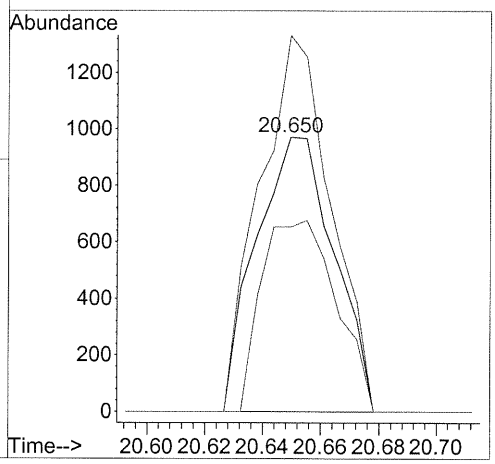


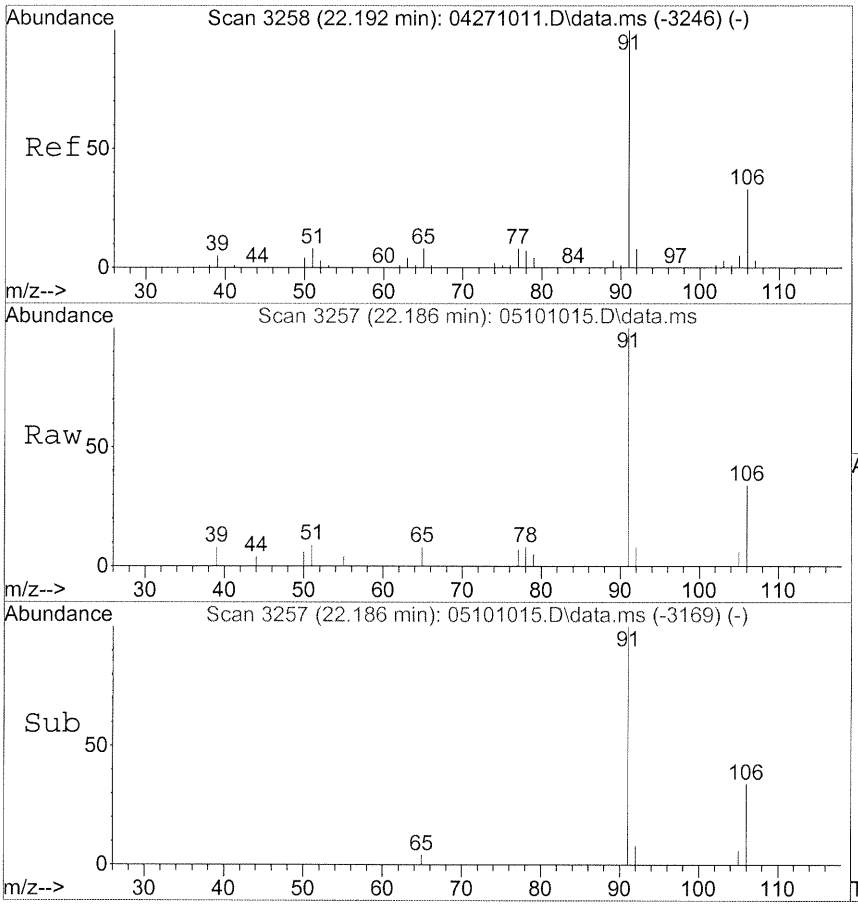


#63
n-Octane
Concen: 0.10 ng
RT: 20.65 min Scan# 2988
Delta R.T. -0.006 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 57 Resp: 1800

Ion	Ratio	Lower	Upper
57	100		
85	126.1	81.8	122.8#
71	66.9	55.0	82.6

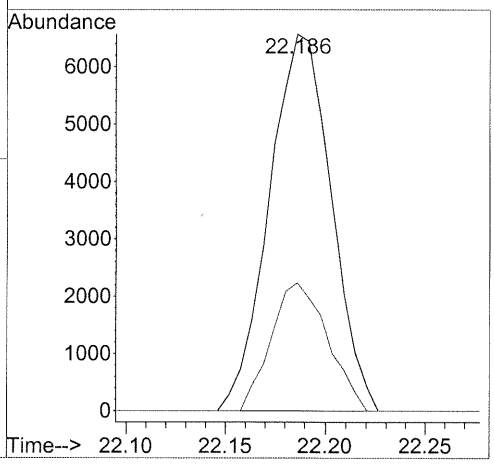


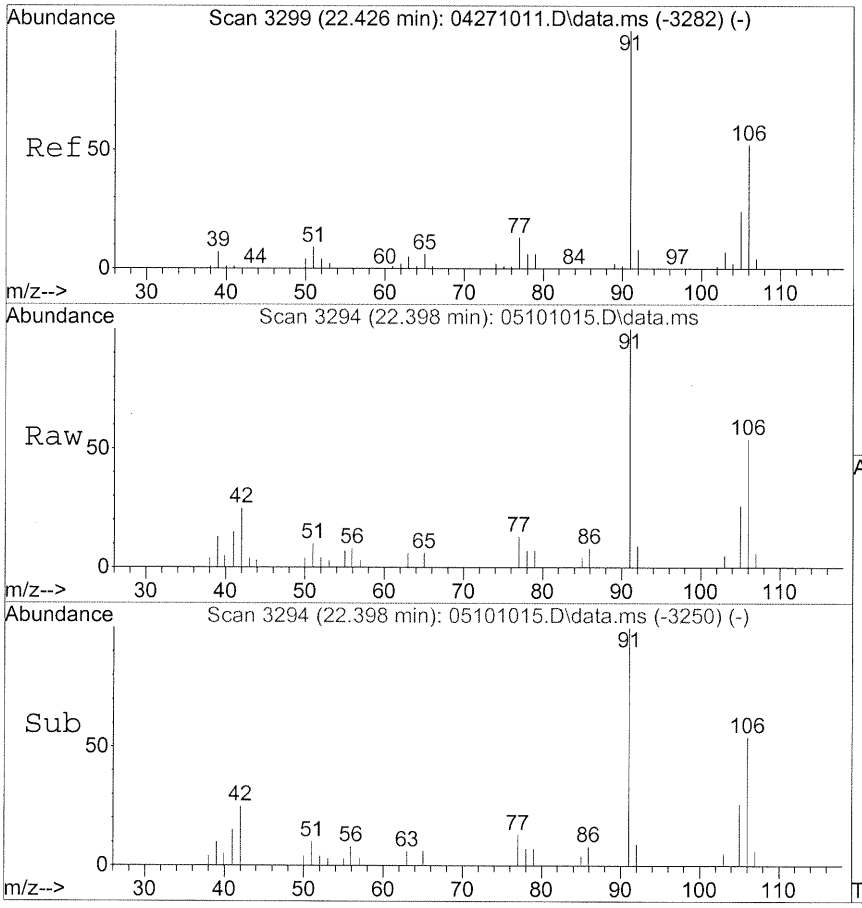


#66
Ethylbenzene
Concen: 0.12 ng
RT: 22.19 min Scan# 3257
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 91 Resp: 14061

Ion	Ratio	Lower	Upper
91	100		
106	31.0	9.8	49.8

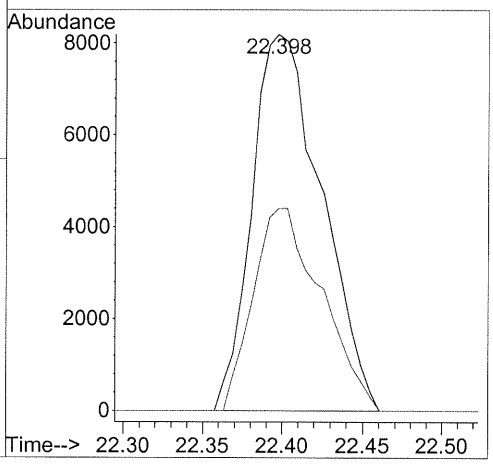


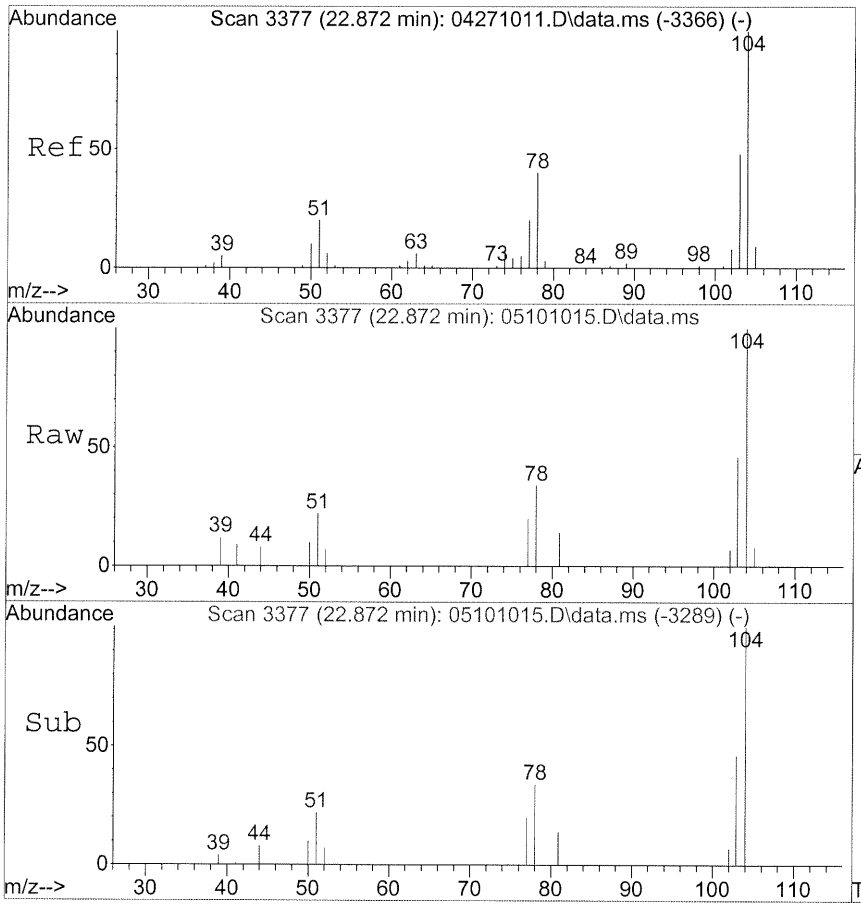


#67
m- & p-Xylenes
Concen: 0.28 ng
RT: 22.40 min Scan# 3294
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 91 Resp: 24812

Ion	Ratio	Lower	Upper
91	100		
106	52.7	26.8	66.8

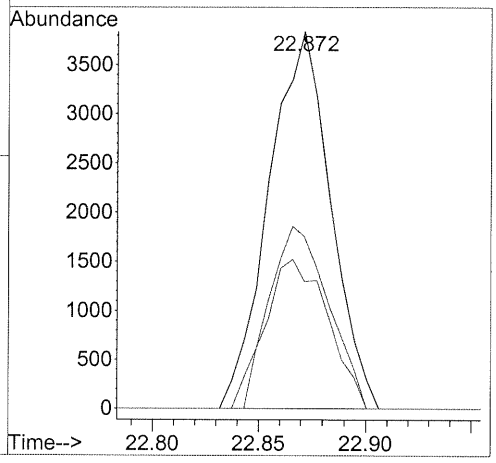


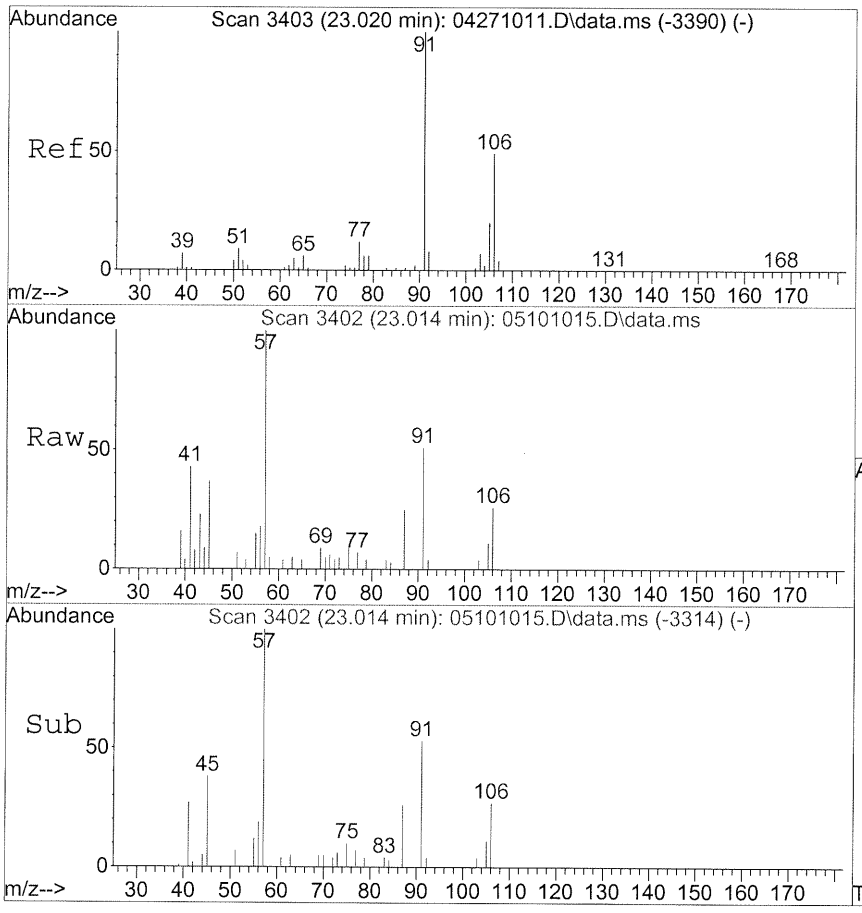


#69
Styrene
Concen: 0.11 ng
RT: 22.87 min Scan# 3377
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion:104 Resp: 7683

Ion	Ratio	Lower	Upper
104	100		
78	39.2	26.1	66.1
103	48.0	28.7	68.7

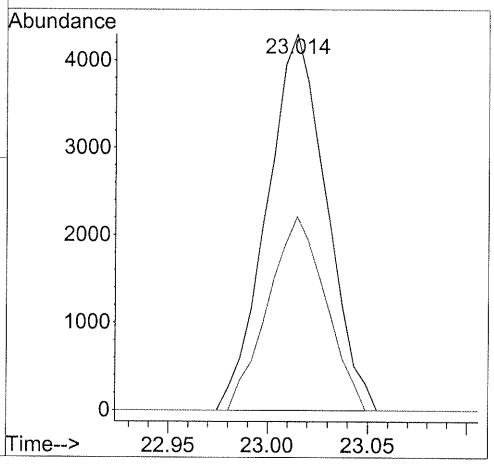


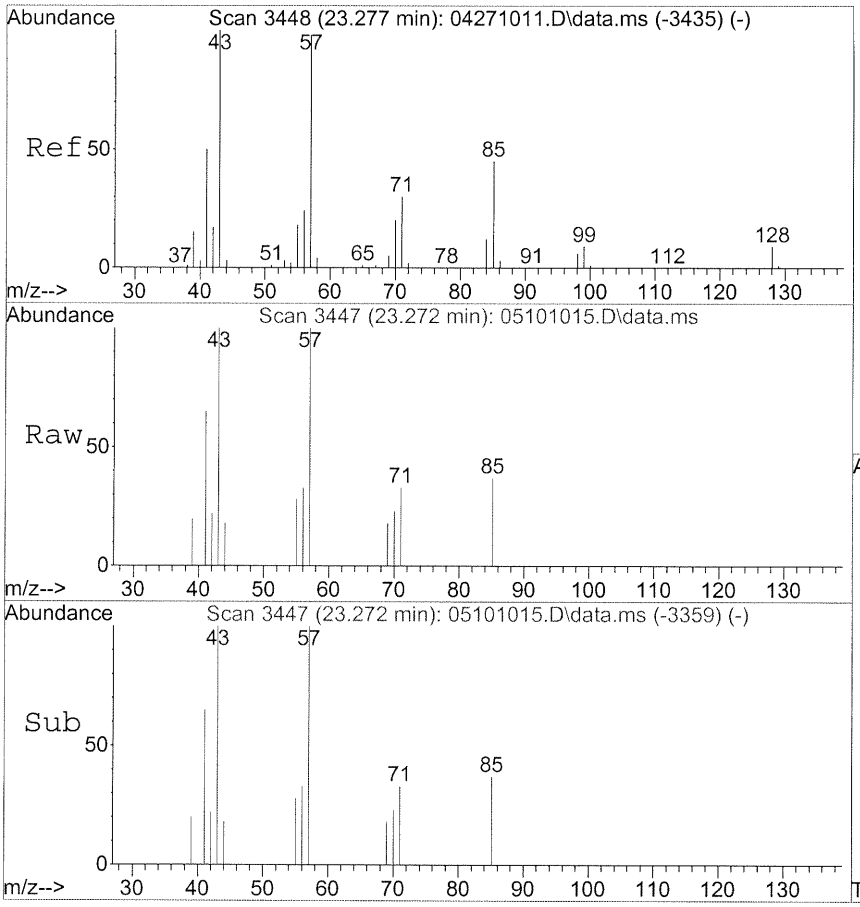


#70
o-Xylene
Concen: 0.10 ng
RT: 23.01 min Scan# 3402
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 91 Resp: 8871

Ion	Ratio	Lower	Upper
91	100		
106	49.8	24.4	64.4

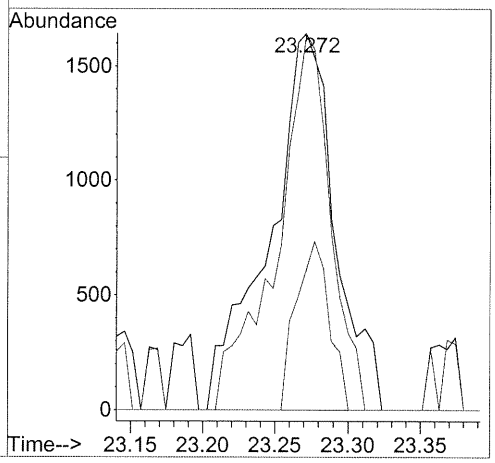


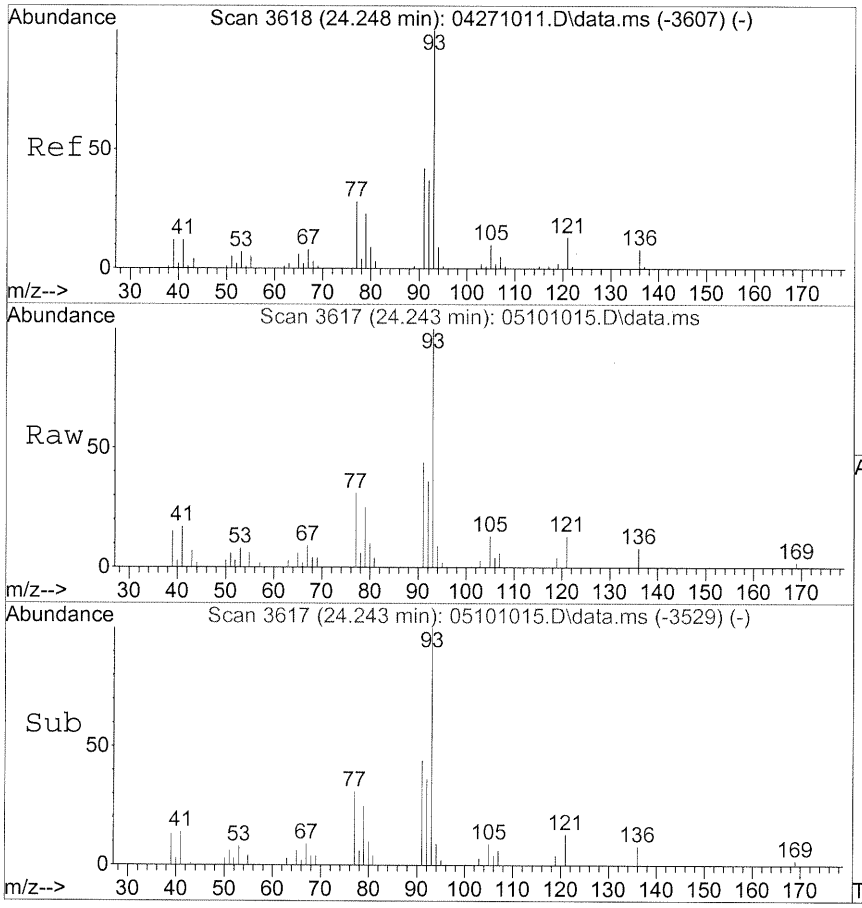


#71
n-Nonane
Concen: 0.13 ng
RT: 23.27 min Scan# 3447
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 43 Resp: 5178

Ion	Ratio	Lower	Upper
43	100		
57	81.2	65.6	105.6
85	22.4	9.9	49.9

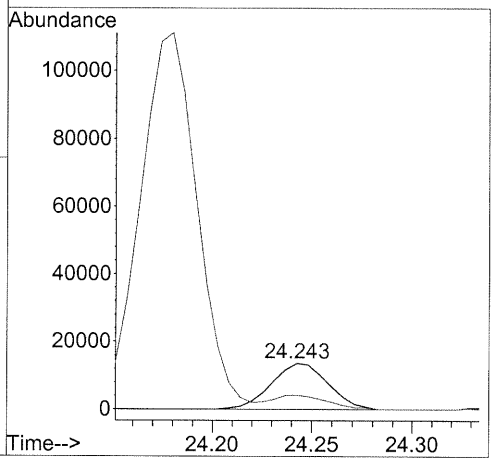


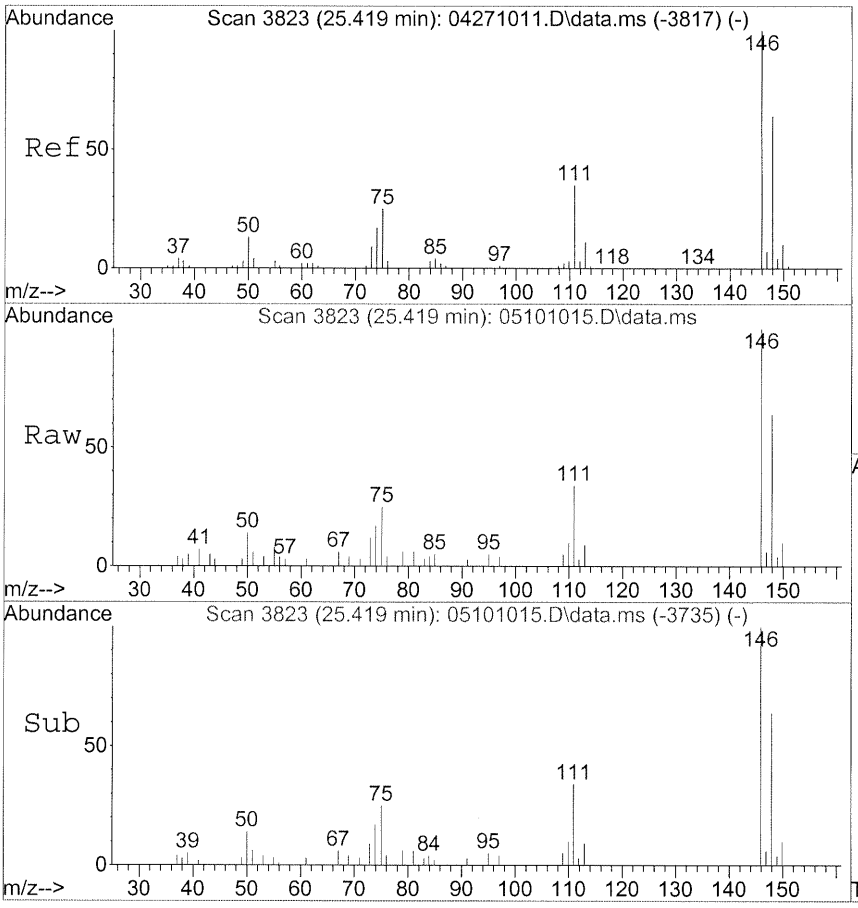


#75
alpha-Pinene
Concen: 0.45 ng
RT: 24.24 min Scan# 3617
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 93 Resp: 26487

Ion	Ratio	Lower	Upper
93	100		
77	28.1	12.3	52.3

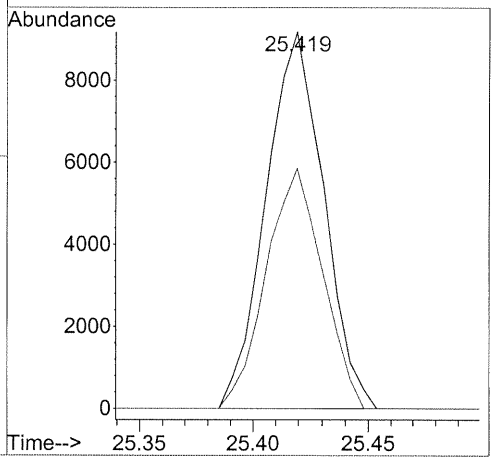


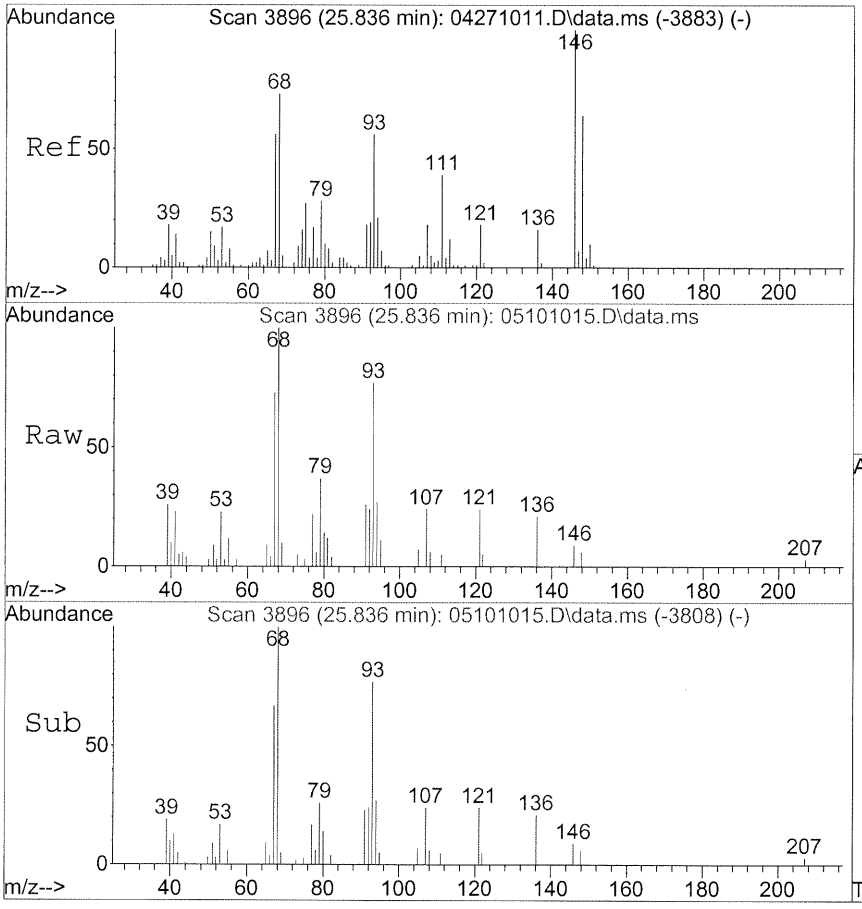


#86
1,4-Dichlorobenzene
Concen: 0.26 ng
RT: 25.42 min Scan# 3823
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion:146 Resp: 15984

Ion	Ratio	Lower	Upper
146	100		
148	62.4	43.8	83.8

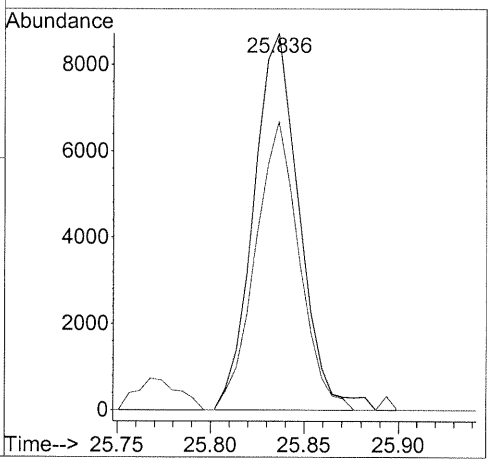




#91
d-Limonene
Concen: 0.44 ng
RT: 25.84 min Scan# 3896
Delta R.T. 0.000 min
Lab File: 05101015.D
Acq: 10 May 2010 22:12

Tgt Ion: 68 Resp: 14802

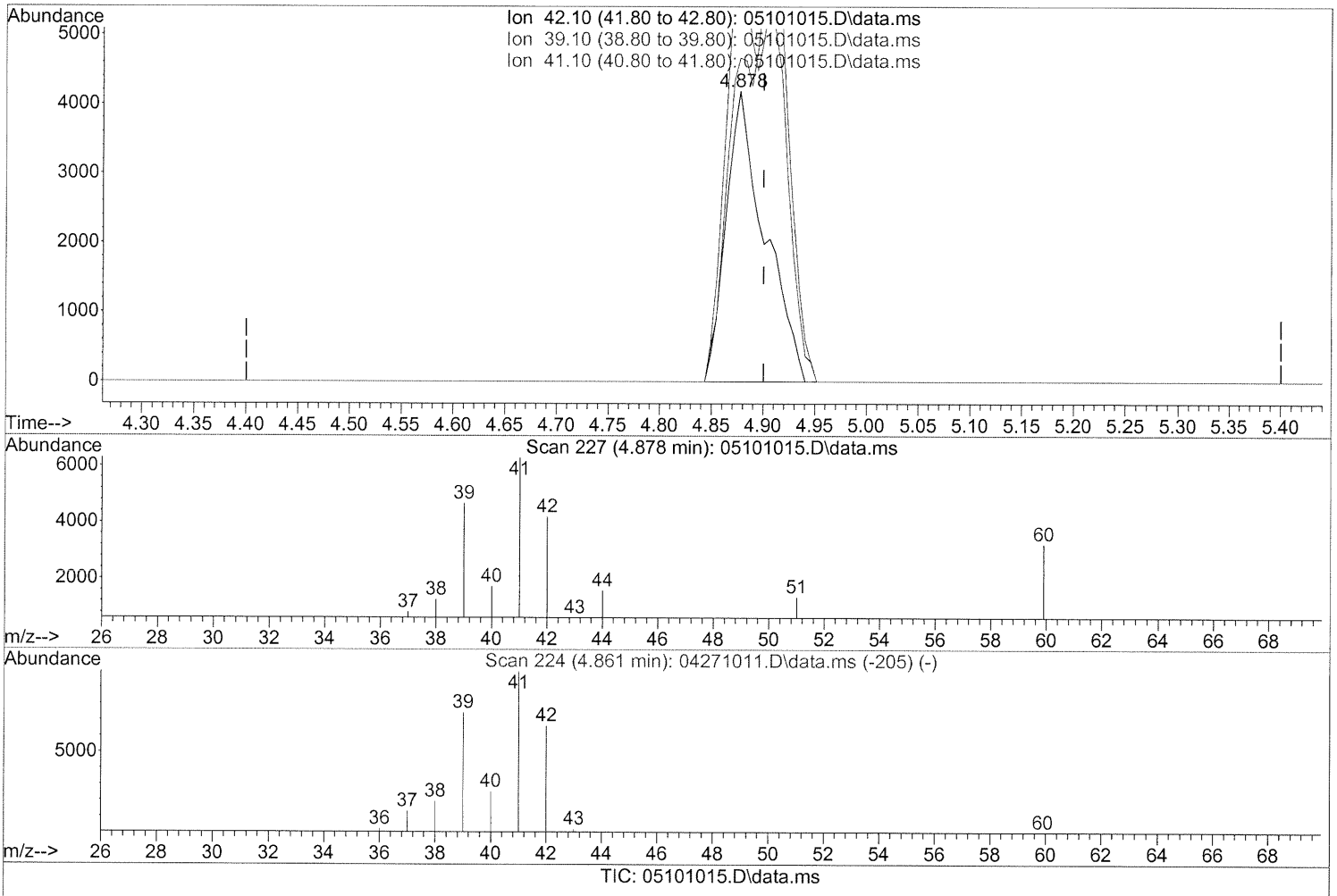
Ion	Ratio	Lower	Upper
68	100		
93	73.7	42.0	82.0



Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101015.D\data.ms

(2) Propene (T)

4.878min (-0.023) 0.53ng

response 10825

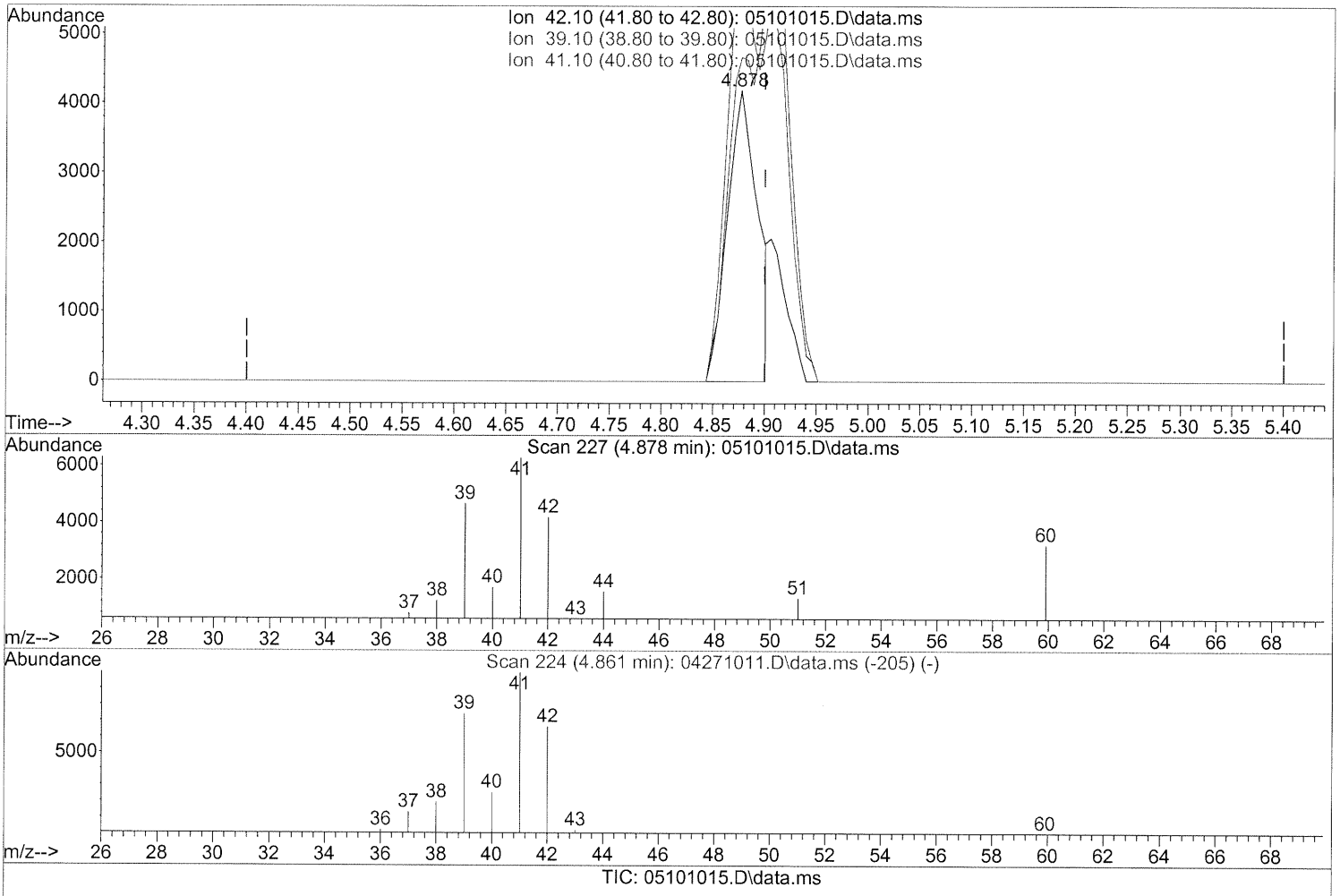
Ion	Exp%	Act%
42.10	100	100
39.10	112.20	78.31#
41.10	153.90	197.85#
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101015.D\data.ms

(2) Propene (T)

4.878min (-0.023) 0.41ng m

response 8370

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	101.28
41.10	153.90	255.88#
0.00	0.00	0.00

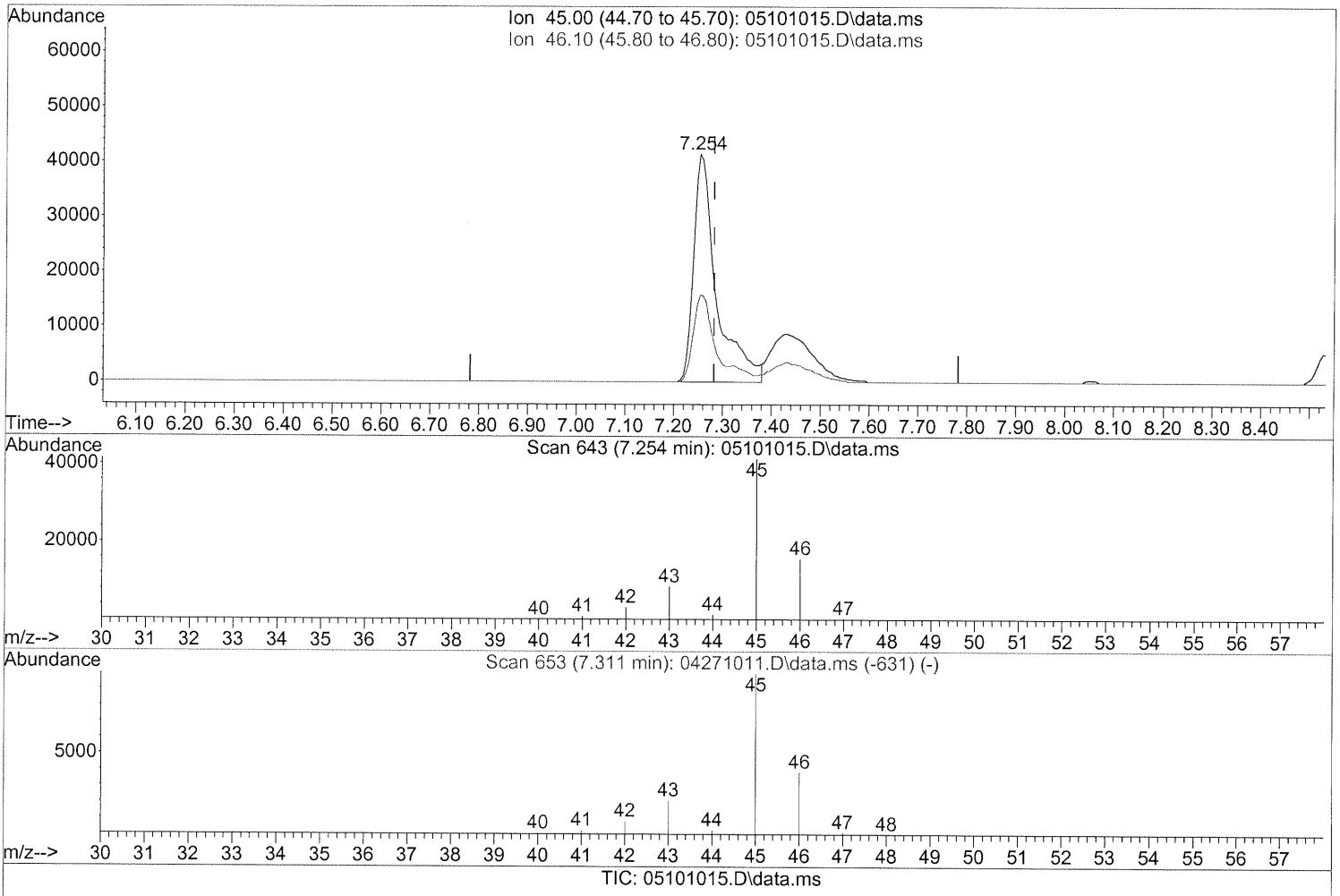
SH --- 7 IC

SH 5/17/10

5/19/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101015.D\data.ms

(10) Ethanol (T)

7.254min (-0.028) 10.76ng

response 134739

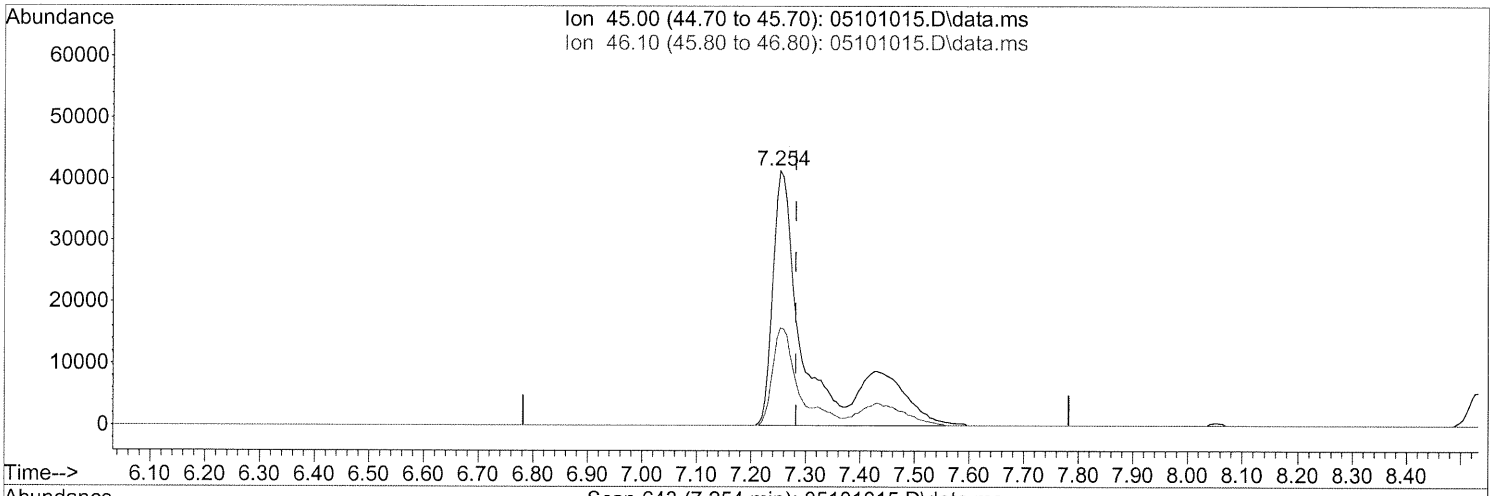
SP

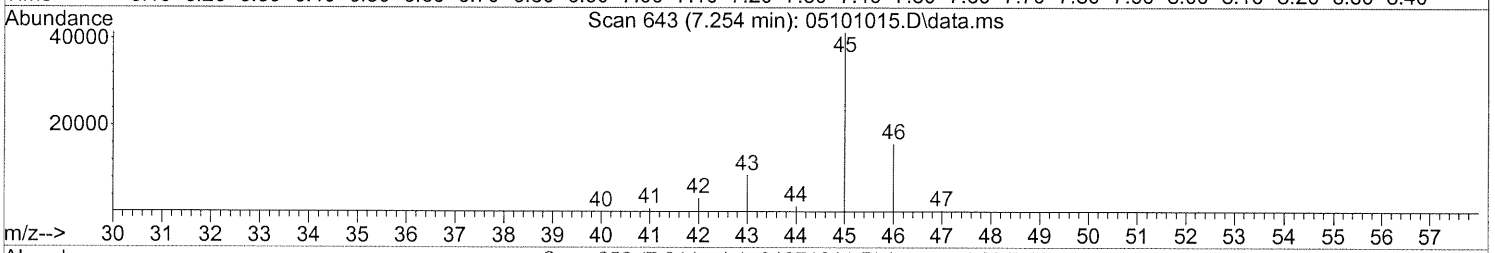
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.48
0.00	0.00	0.00
0.00	0.00	0.00

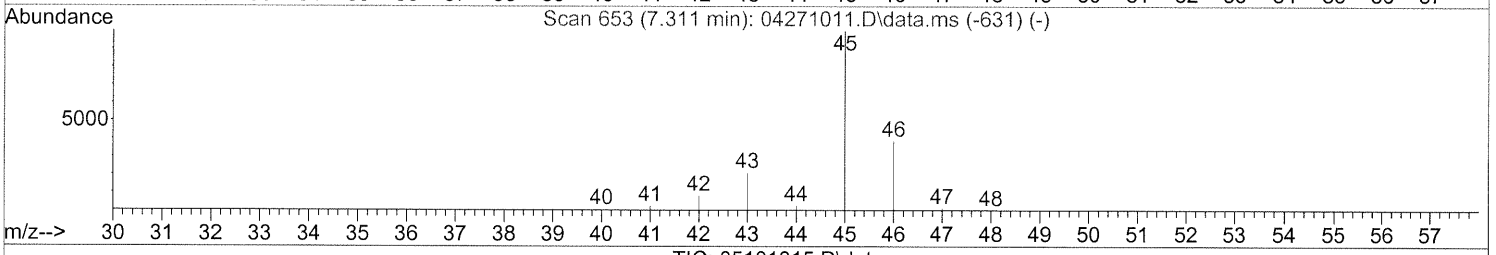
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101015.D\data.ms

(10) Ethanol (T)

7.254min (-0.028) 14.94ng m

response 187054

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	27.72
0.00	0.00	0.00
0.00	0.00	0.00

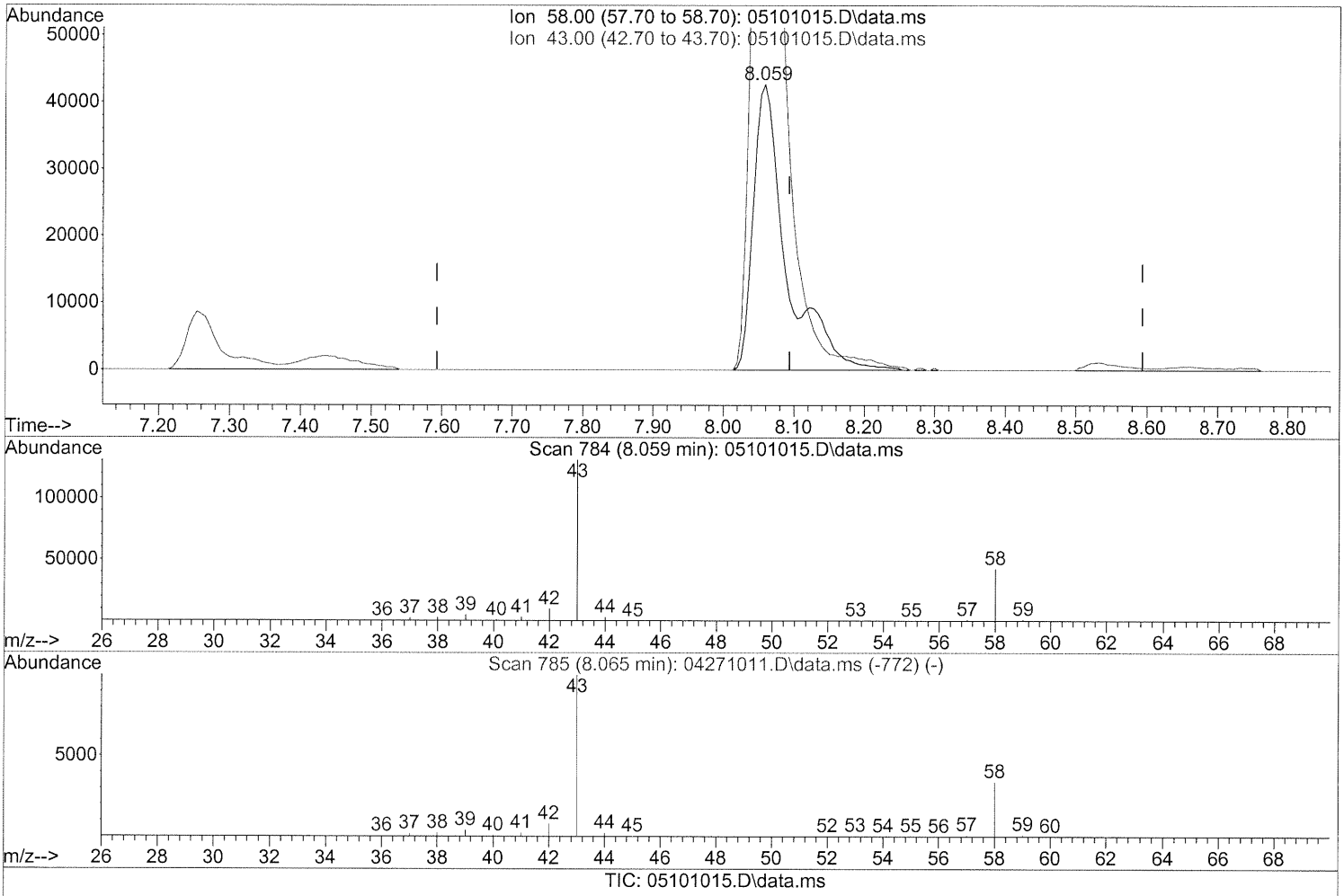
SP—7 IC

5/17/10

5/19/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101015.D\data.ms

(13) Acetone (T)

8.059min (-0.034) 8.64ng

response 138334

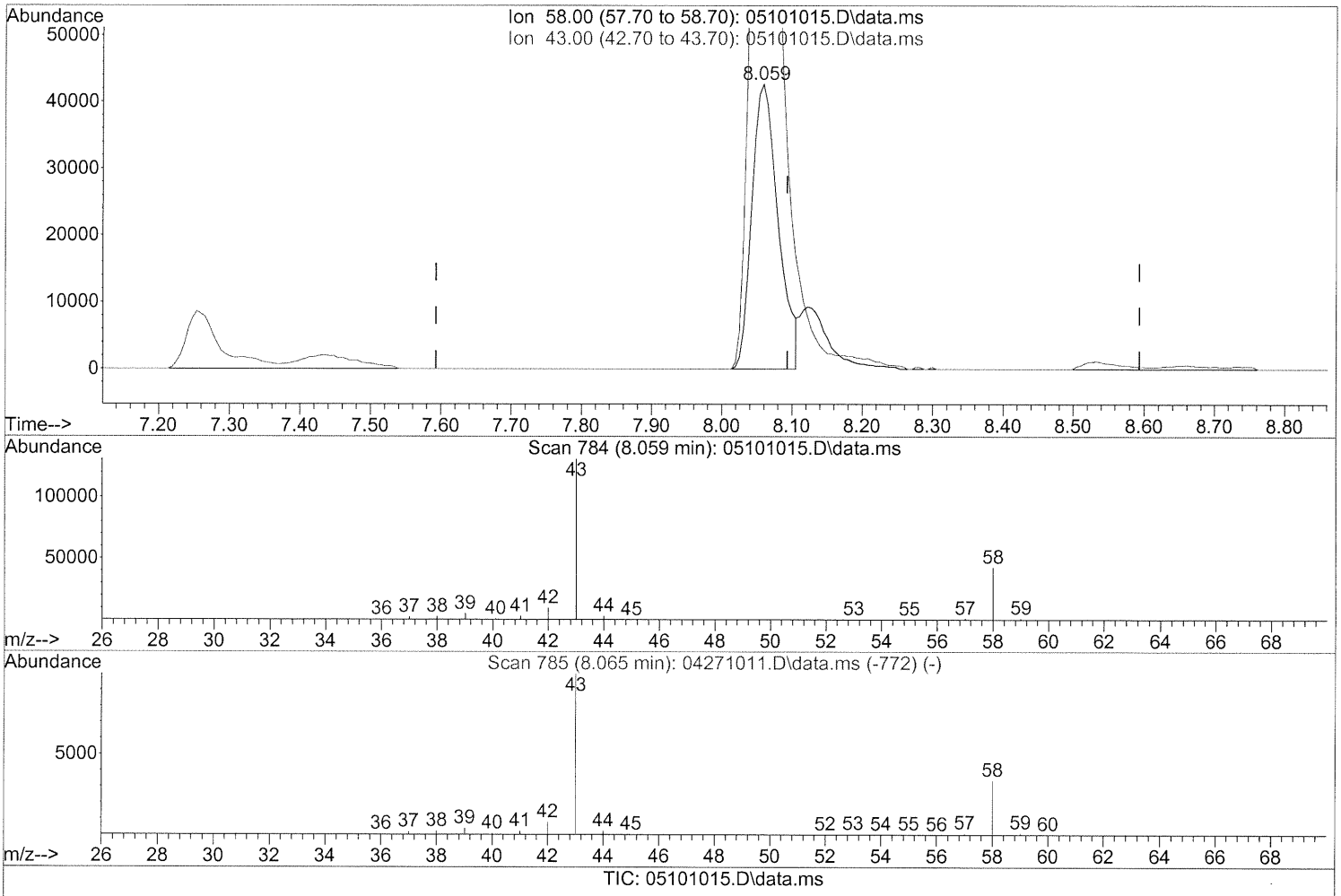
Ion	Exp%	Act%
58.00	100	100
43.00	325.00	264.85#
0.00	0.00	0.00
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101015.D\data.ms

(13) Acetone (T)

8.059min (-0.034) 6.96ng m

response 111358

Ion	Exp%	Act%
58.00	100	100
43.00	325.00	329.00
0.00	0.00	0.00
0.00	0.00	0.00

SH → IC

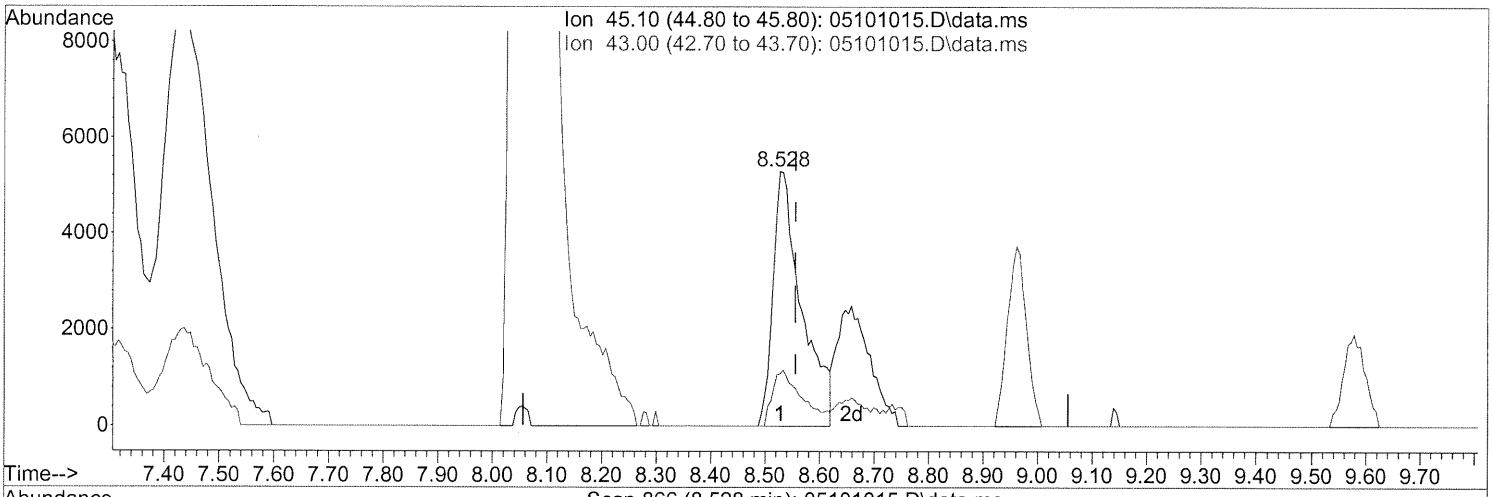
5/17/10

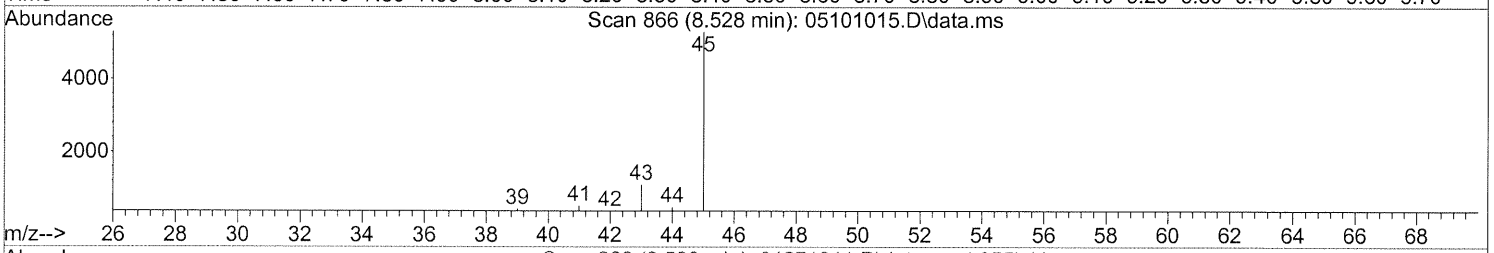
5/19/10

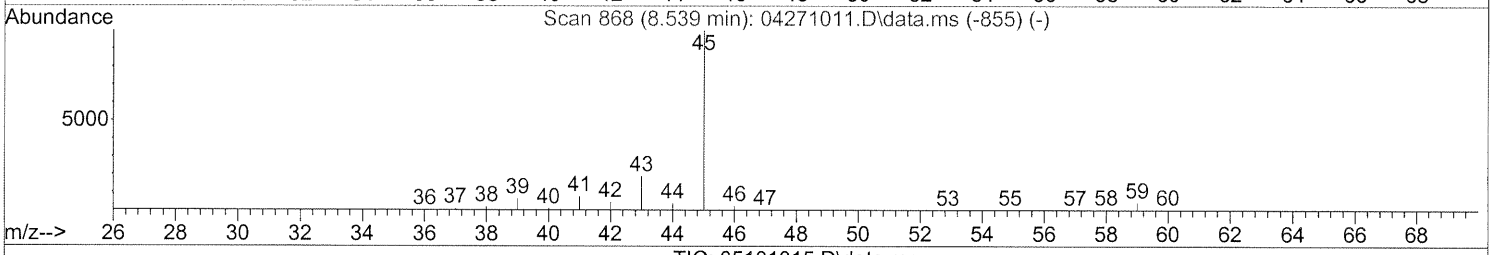
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101015.D\data.ms

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

8.528min (-0.028) 0.41ng

response 19313

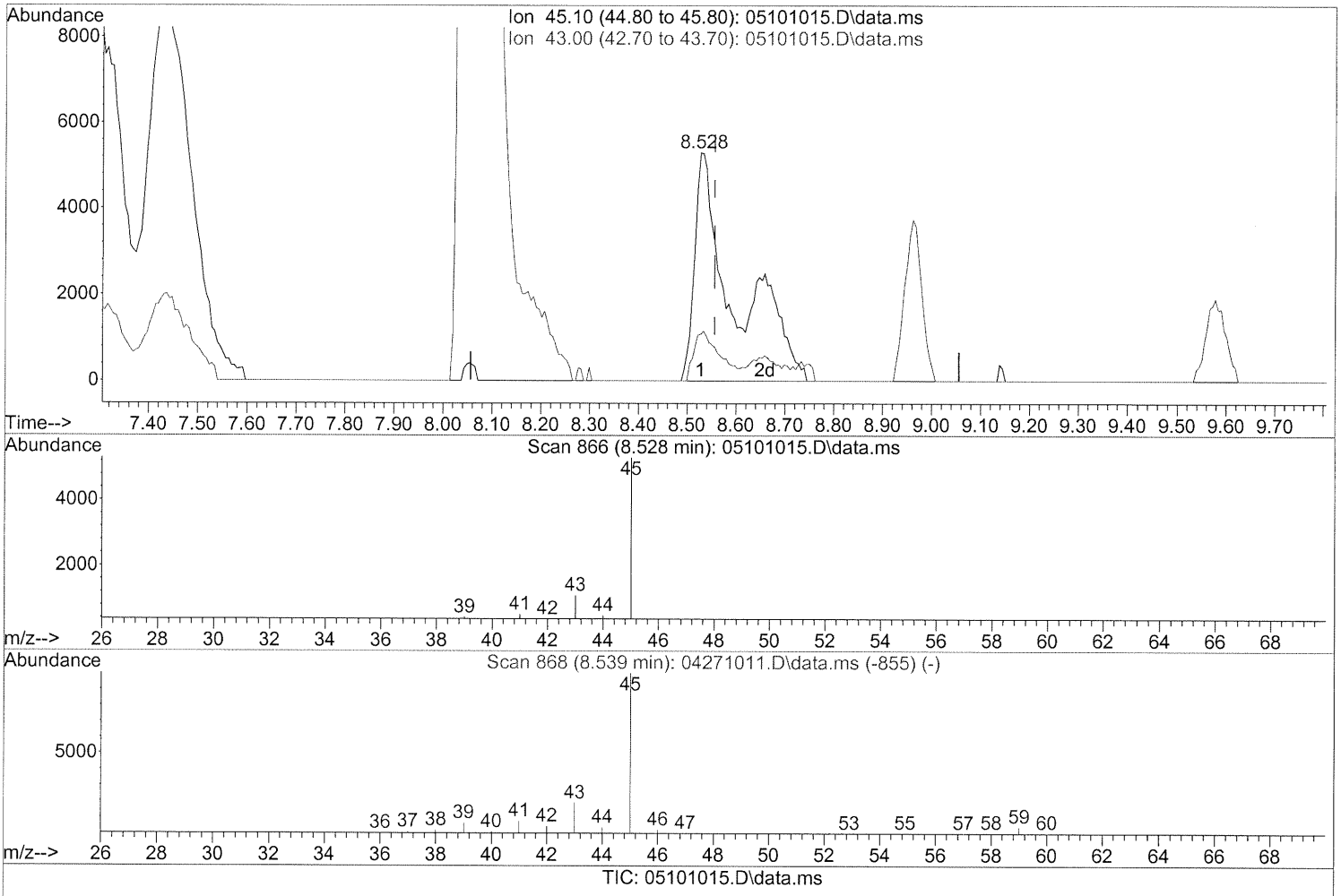
Ion	Exp%	Act%
45.10	100	100
43.00	19.20	23.18
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101015.D\data.ms

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

8.528min (-0.028) 0.64ng m

response 29732

Ion	Exp%	Act%
45.10	100	100
43.00	19.20	15.05
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

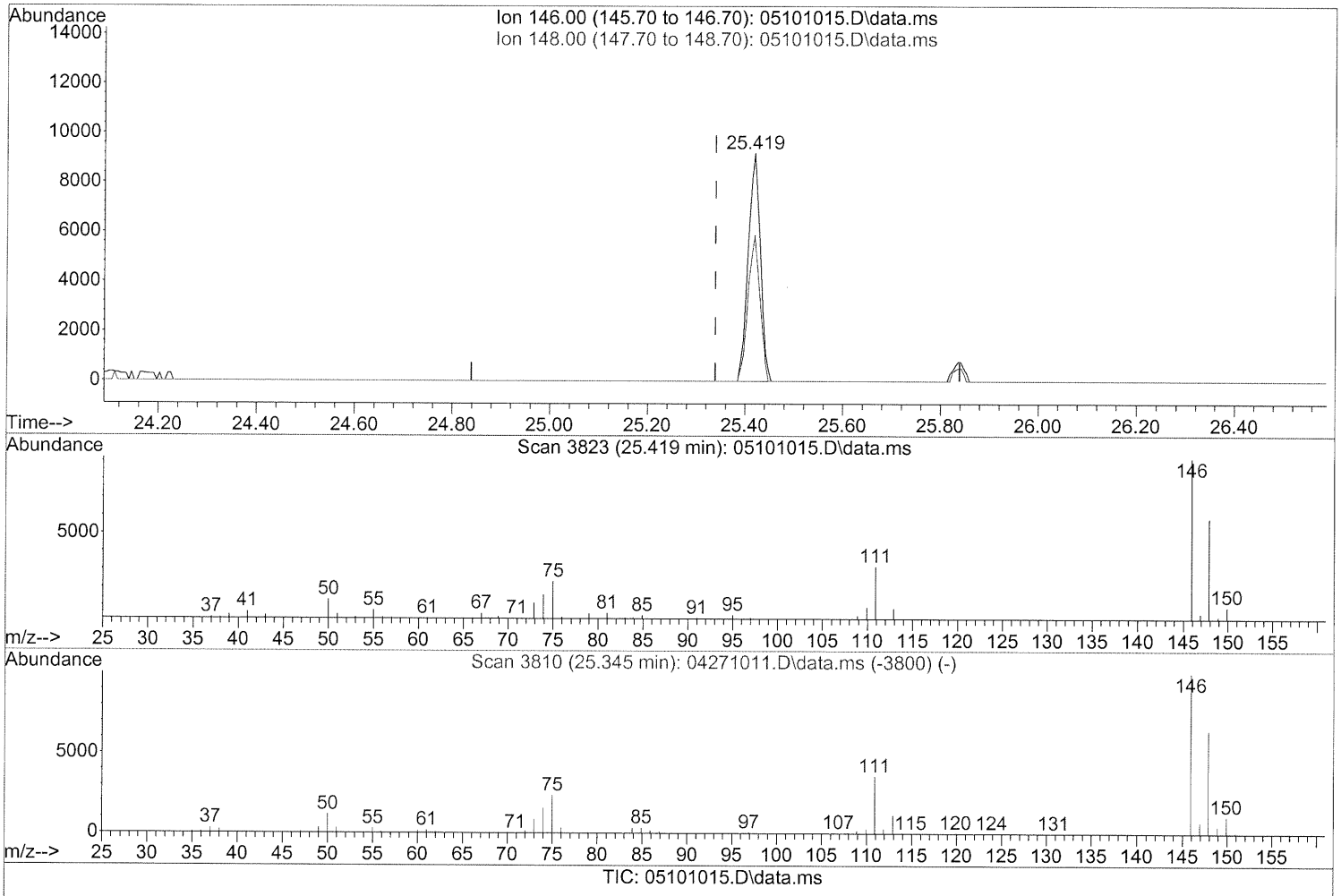
DA 5/17/10

5/18/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101015.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.419min (+0.080) 0.27ng

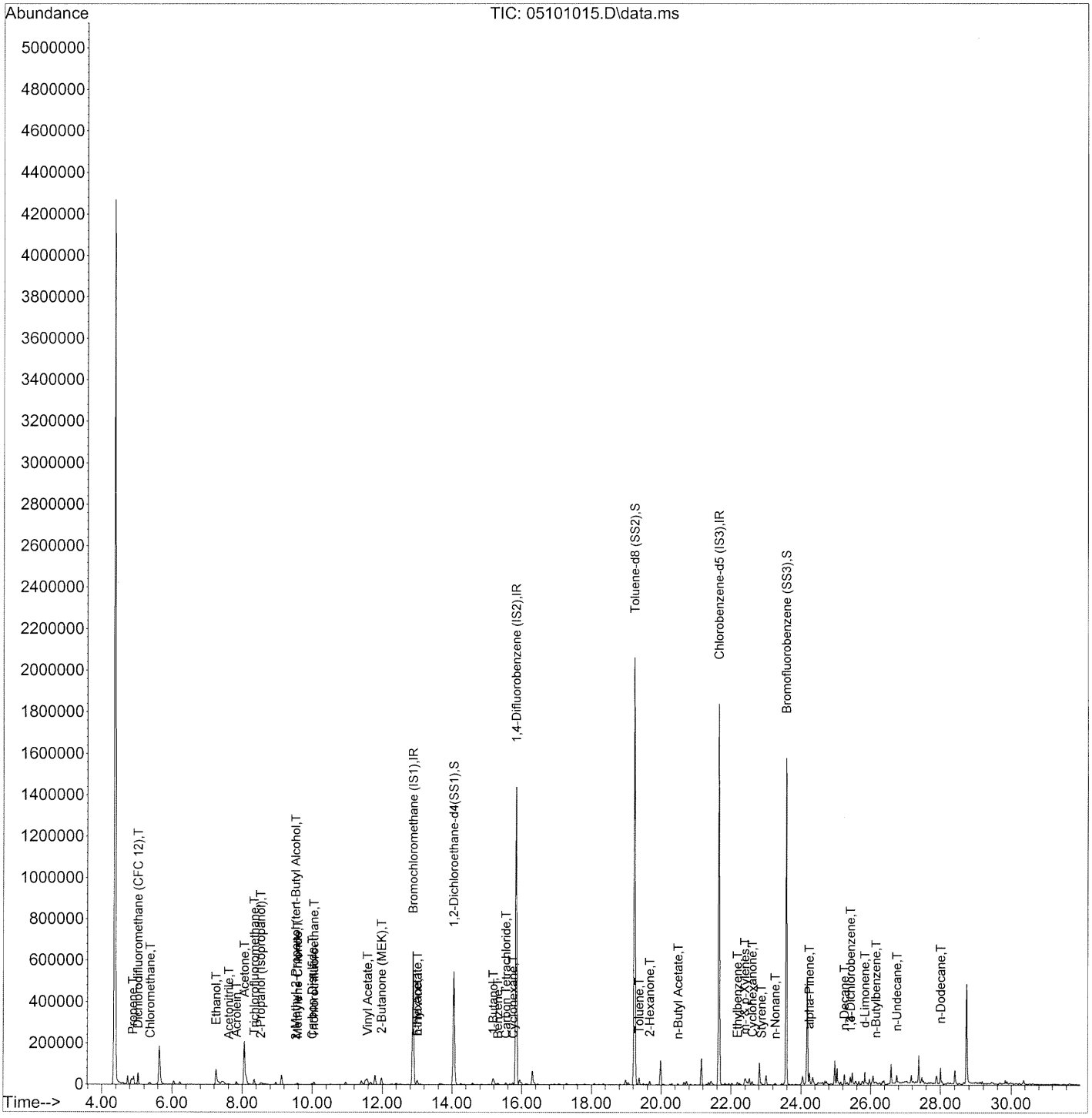
response 15984

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	62.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	362908	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1752694	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	731587	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	549063	25.068	ng		0.00
Spiked Amount 25.000			Recovery = 100.28%				
57) Toluene-d8 (SS2)	19.24	98	1844172	24.993	ng		0.00
Spiked Amount 25.000			Recovery = 99.96%				
73) Bromofluorobenzene (SS3)	23.58	174	627958	24.296	ng		0.00
Spiked Amount 25.000			Recovery = 97.20%				
Target Compounds							Qvalue
2) Propene	4.88	42	10825	0.527	ng	#	67
3) Dichlorodifluoromethan...	5.03	85	57812	1.196	ng		100
4) Chloromethane	5.37	50	7106	0.242	ng		97
5) 1,2-Dichloro-1,1,2,2-t...	5.64	135	1307	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	0.00	54	0	N.D.			
8) Bromomethane	6.63	94	272	N.D.			
9) Chloroethane	6.97	64	511	N.D.			
10) Ethanol	7.25	45	134739	10.759	ng		100
11) Acetonitrile	7.61	41	4752	0.157	ng		90
12) Acrolein	7.83	56	16227	1.314	ng		100
13) Acetone	8.06	58	138334	8.645	ng	#	71
14) Trichlorofluoromethane	8.35	101	26582	0.604	ng		97
15) 2-Propanol (Isopropanol)	8.53	45	19313	0.414	ng		91
16) Acrylonitrile	8.85	53	89	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.53	59	5732	0.104	ng	#	61
19) Methylene Chloride	9.58	84	2763	0.115	ng	#	72
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	10.05	151	6100	0.277	ng	#	77
22) Carbon Disulfide	10.00	76	10727	0.138	ng		97
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	11.58	86	6316	1.134	ng	#	1
27) 2-Butanone (MEK)	11.98	72	16337	1.112	ng	#	68
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	0.00	87	0	N.D.			
30) Ethyl Acetate	13.01	61	1739	0.223	ng		95
31) n-Hexane	13.01	57	9057	0.243	ng		97

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.09	83	3594	N.D.		
34) Tetrahydrofuran (THF)	13.70	72	1128	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.21	62	567	N.D.		
38) 1,1,1-Trichloroethane	14.63	97	89	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.18	56	33955	1.606 ng	#	74
41) Benzene	15.31	78	11228	0.113 ng		97
42) Carbon Tetrachloride	15.55	117	8173	0.267 ng		98
43) Cyclohexane	15.75	84	5680	0.153 ng	#	81
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.78	83	633	N.D.		
47) Trichloroethene	16.86	130	179	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	4172	N.D.		
50) Methyl Methacrylate	17.30	100	122	N.D.		
51) n-Heptane	17.30	71	1658	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	1576	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	35351	0.340 ng		98
59) 2-Hexanone	19.67	43	15083	0.342 ng		99
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	5264	0.105 ng		96
63) n-Octane	20.65	57	1800	N.D.		
64) Tetrachloroethene	20.85	166	1512	N.D.		
65) Chlorobenzene	21.71	112	101	N.D.		
66) Ethylbenzene	22.19	91	14061	0.123 ng		98
67) m- & p-Xylenes	22.40	91	24812	0.275 ng		91
68) Bromoform	22.51	173	885	N.D.		
69) Styrene	22.87	104	7683	0.108 ng		94
70) o-Xylene	23.01	91	8871	N.D.		
71) n-Nonane	23.27	43	5178	0.129 ng		93
72) 1,1,2,2-Tetrachloroethane	23.00	83	305	N.D.		
74) Cumene	23.75	105	1031	N.D.		
75) alpha-Pinene	24.24	93	26487	0.455 ng		93
76) n-Propylbenzene	24.37	91	4602	N.D.		
77) 3-Ethyltoluene	24.50	105	5667	N.D.		
78) 4-Ethyltoluene	24.55	105	3265	N.D.		
79) 1,3,5-Trimethylbenzene	24.64	105	2185	N.D.		

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101015.D
Acq On : 10 May 2010 22:12
Operator : WA
Sample : P1001603-003 (1000mL)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 03:53:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	460	N.D.		
81) 2-Ethyltoluene	24.88	105	2655	N.D.		
82) 1,2,4-Trimethylbenzene	25.15	105	7050	N.D.		
83) n-Decane	25.25	57	19047	0.427 ng		84
84) Benzyl Chloride	25.31	91	1317	N.D.		
85) 1,3-Dichlorobenzene	25.42	146	15984	0.268 ng		98
86) 1,4-Dichlorobenzene	25.42	146	15984	0.259 ng		98
87) sec-Butylbenzene	25.47	105	1222	N.D.		
88) 4-Isopropyltoluene (p-...	25.66	119	5348	N.D.		
89) 1,2,3-Trimethylbenzene	25.67	105	2507	N.D.		
90) 1,2-Dichlorobenzene	25.84	146	1294	N.D.		
91) d-Limonene	25.84	68	14802	0.436 ng		85
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.76	57	11503	0.261 ng	#	54
94) 1,2,4-Trichlorobenzene	27.90	180	105	N.D.		
95) Naphthalene	28.05	128	10766	N.D.		
96) n-Dodecane	28.01	57	24422	0.534 ng		84
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.61	55	10837	0.363 ng	#	86
99) tert-Butylbenzene	25.15	119	1068	N.D.		
100) n-Butylbenzene	26.15	91	10831	0.108 ng	#	38

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110259**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00624

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -4.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.80

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**12**	0.90	**7.0**	0.52	
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.4**	0.90	**0.48**	0.18	
74-87-3	**Chloromethane**	**0.69**	0.36	**0.34**	0.17	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.90	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.18	ND	0.070	
106-99-0	1,3-Butadiene	ND	0.36	ND	0.16	
74-83-9	Bromomethane	ND	0.18	ND	0.046	
75-00-3	Chloroethane	ND	0.18	ND	0.068	
64-17-5	**Ethanol**	**2,900**	90	**1,600**	48	**D**
75-05-8	**Acetonitrile**	**1.0**	0.90	**0.60**	0.54	
107-02-8	**Acrolein**	**4.5**	3.6	**2.0**	1.6	
67-64-1	**Acetone**	**180**	9.0	**76**	3.8	
75-69-4	**Trichlorofluoromethane**	**1.3**	0.18	**0.23**	0.032	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**84**	1.8	**34**	0.73	
107-13-1	Acrylonitrile	ND	0.90	ND	0.41	
75-35-4	1,1-Dichloroethene	ND	0.18	ND	0.045	
75-09-2	Methylene Chloride	ND	0.90	ND	0.26	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.18	ND	0.058	
76-13-1	**Trichlorotrifluoroethane**	**0.59**	0.18	**0.077**	0.023	
75-15-0	Carbon Disulfide	ND	9.0	ND	2.9	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	ND	0.045	
75-34-3	1,1-Dichloroethane	ND	0.18	ND	0.044	
1634-04-4	Methyl tert-Butyl Ether	ND	0.18	ND	0.050	
108-05-4	Vinyl Acetate	ND	9.0	ND	2.6	
78-93-3	2-Butanone (MEK)	ND	9.0	ND	3.1	

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: Ro Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110259**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00624

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -4.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.80

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.18	ND	0.045	
141-78-6	**Ethyl Acetate**	**12**	0.90	**3.2**	0.25	
110-54-3	**n-Hexane**	**1.9**	0.90	**0.54**	0.26	
67-66-3	**Chloroform**	**13**	0.18	**2.6**	0.037	
109-99-9	**Tetrahydrofuran (THF)**	**1.2**	0.90	**0.39**	0.31	
107-06-2	**1,2-Dichloroethane**	**2.3**	0.18	**0.56**	0.044	
71-55-6	1,1,1-Trichloroethane	ND	0.18	ND	0.033	
71-43-2	**Benzene**	**1.0**	0.18	**0.32**	0.056	
56-23-5	**Carbon Tetrachloride**	**0.77**	0.18	**0.12**	0.029	
110-82-7	**Cyclohexane**	**2.8**	0.90	**0.83**	0.26	
78-87-5	1,2-Dichloropropane	ND	0.18	ND	0.039	
75-27-4	**Bromodichloromethane**	**6.3**	0.18	**0.94**	0.027	
79-01-6	Trichloroethene	ND	0.18	ND	0.034	
123-91-1	1,4-Dioxane	ND	0.90	ND	0.25	
80-62-6	Methyl Methacrylate	ND	0.90	ND	0.22	
142-82-5	**n-Heptane**	**1.7**	0.90	**0.42**	0.22	
10061-01-5	cis-1,3-Dichloropropene	ND	0.90	ND	0.20	
108-10-1	**4-Methyl-2-pentanone**	**1.1**	0.90	**0.26**	0.22	
10061-02-6	trans-1,3-Dichloropropene	ND	0.90	ND	0.20	
79-00-5	1,1,2-Trichloroethane	ND	0.18	ND	0.033	
108-88-3	**Toluene**	**9.3**	0.90	**2.5**	0.24	
591-78-6	**2-Hexanone**	**1.7**	0.90	**0.41**	0.22	
124-48-1	**Dibromochloromethane**	**3.2**	0.18	**0.37**	0.021	
106-93-4	1,2-Dibromoethane	ND	0.18	ND	0.023	
123-86-4	**n-Butyl Acetate**	**5.5**	0.90	**1.2**	0.19	

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: Ke Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.** CAS Project ID: P1001603
Client Sample ID: **110259** CAS Sample ID: P1001603-004
Client Project ID: **17131**

Test Code: EPA TO-15 Date Collected: 5/6/10
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/7/10
Analyst: Wida Ang Date Analyzed: 5/10 - 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.10 Liter(s)
Container ID: AC00624

Initial Pressure (psig): -4.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.80

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	**n-Octane**	**1.1**	0.90	**0.23**	0.19	
127-18-4	**Tetrachloroethene**	**0.55**	0.18	**0.081**	0.027	
108-90-7	Chlorobenzene	ND	0.18	ND	0.039	
100-41-4	**Ethylbenzene**	**2.3**	0.90	**0.53**	0.21	
179601-23-1	**m,p-Xylenes**	**6.1**	0.90	**1.4**	0.21	
75-25-2	Bromoform	ND	0.90	ND	0.087	
100-42-5	**Styrene**	**3.2**	0.90	**0.76**	0.21	
95-47-6	**o-Xylene**	**2.4**	0.90	**0.54**	0.21	
111-84-2	**n-Nonane**	**3.0**	0.90	**0.57**	0.17	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	ND	0.026	
98-82-8	Cumene	ND	0.90	ND	0.18	
80-56-8	**alpha-Pinene**	**57**	0.90	**10**	0.16	
103-65-1	n-Propylbenzene	ND	0.90	ND	0.18	
622-96-8	4-Ethyltoluene	ND	0.90	ND	0.18	
108-67-8	1,3,5-Trimethylbenzene	ND	0.90	ND	0.18	
95-63-6	**1,2,4-Trimethylbenzene**	**2.2**	0.90	**0.44**	0.18	
100-44-7	Benzyl Chloride	ND	0.90	ND	0.17	
541-73-1	1,3-Dichlorobenzene	ND	0.18	ND	0.030	
106-46-7	**1,4-Dichlorobenzene**	**56**	0.18	**9.3**	0.030	
95-50-1	**1,2-Dichlorobenzene**	**0.31**	0.18	**0.052**	0.030	
5989-27-5	**d-Limonene**	**74**	0.90	**13**	0.16	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.90	ND	0.093	
120-82-1	1,2,4-Trichlorobenzene	ND	0.90	ND	0.12	
91-20-3	**Naphthalene**	**1.3**	0.90	**0.25**	0.17	
87-68-3	Hexachlorobutadiene	ND	0.90	ND	0.084	

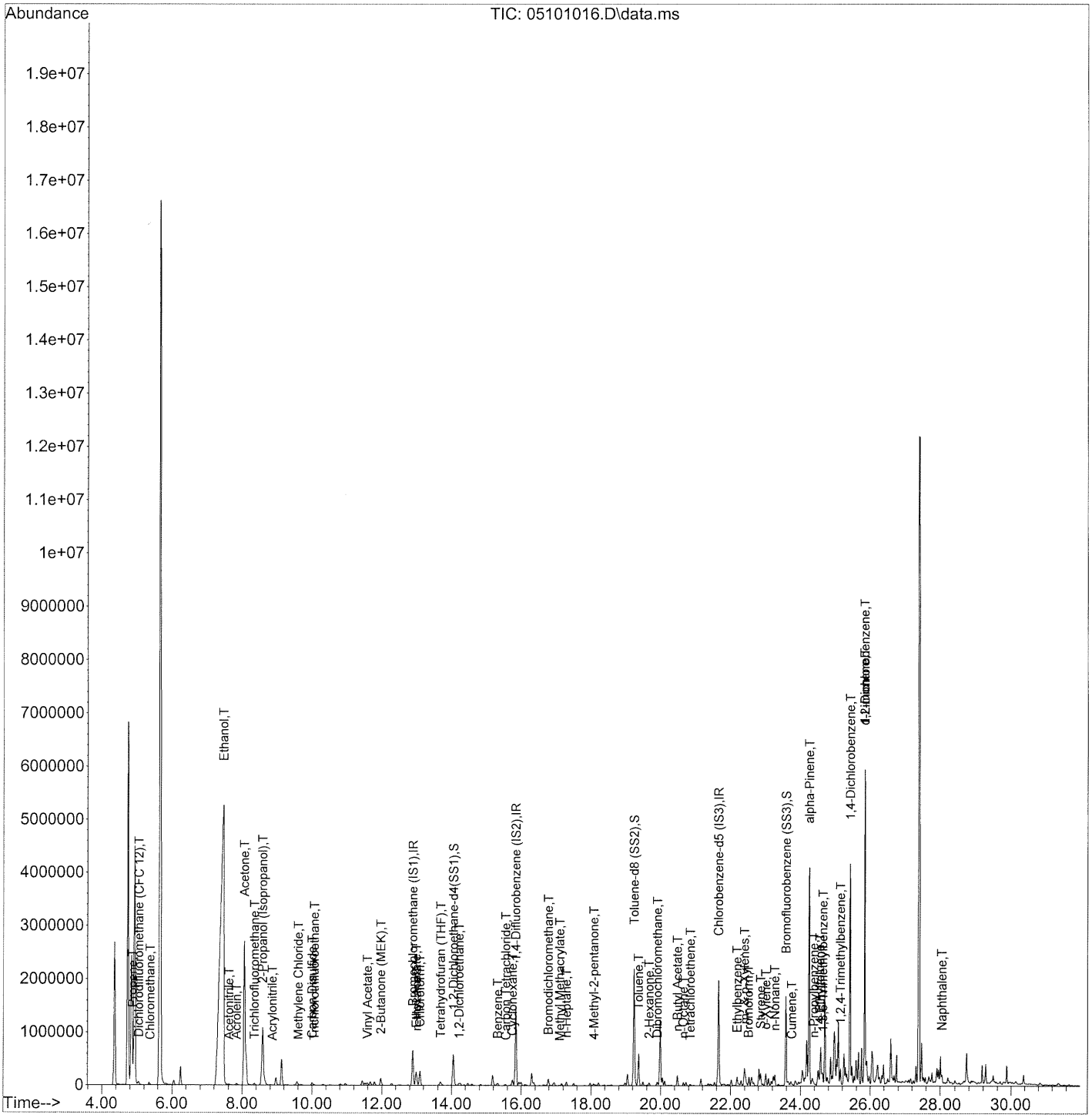
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 14 07:35:27 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 14 07:35:27 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	391199	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.84	114	1835773	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	783582	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	580429	24.584	ng		0.00
Spiked Amount 25.000			Recovery =	98.32%			✓
57) Toluene-d8 (SS2)	19.24	98	1935575	24.491	ng		0.00
Spiked Amount 25.000			Recovery =	97.96%			✓
73) Bromofluorobenzene (SS3)	23.59	174	668408	24.145	ng		0.00
Spiked Amount 25.000			Recovery =	96.60%			✓
Target Compounds							Qvalue
2) Propene	4.87	42	147888m	6.673	ng		
3) Dichlorodifluoromethan...	5.05	85	68393	1.312	ng		99
4) Chloromethane	5.37	50	12184	0.386	ng		95
10) Ethanol	7.46	45	22702171m	1681.747	ng	see dil	
11) Acetonitrile	7.62	41	18323	0.560	ng		96
12) Acrolein	7.84	56	33055	2.483	ng		98
13) Acetone	8.06	58	1720690	99.751	ng		89
14) Trichlorofluoromethane	8.35	101	33709	0.711	ng		99
15) 2-Propanol (Isopropanol)	8.59	45	2333746	46.435	ng		99
16) Acrylonitrile	8.86	53	3302	0.126	ng	#	75
19) Methylene Chloride	9.61	84	6035	0.233	ng	#	76
21) Trichlorotrifluoroethane	10.06	151	7801	0.328	ng	#	74
22) Carbon Disulfide	10.00	76	95577	1.140	ng		100
26) Vinyl Acetate	11.59	86	18054m	3.008	ng		
27) 2-Butanone (MEK)	11.97	72	66355	4.188	ng	#	68
30) Ethyl Acetate	12.99	61	54151	6.435	ng		92
31) n-Hexane	13.01	57	42361	1.056	ng	#	96
32) Chloroform	13.10	83	296419	6.954	ng		99
34) Tetrahydrofuran (THF)	13.69	72	9924	0.645	ng	#	23
36) 1,2-Dichloroethane	14.22	62	40522	1.267	ng		99
41) Benzene	15.32	78	59998	0.574	ng		98
42) Carbon Tetrachloride	15.55	117	13686	0.426	ng		98
43) Cyclohexane	15.75	84	61586	1.583	ng	#	79
46) Bromodichloromethane	16.78	83	110304	3.515	ng		100
50) Methyl Methacrylate	17.11	100	1035	0.093	ng	#	69
51) n-Heptane	17.30	71	23570	0.948	ng		87
53) 4-Methyl-2-pentanone	18.08	58	11763	0.594	ng		92
58) Toluene	19.37	91	574489	5.154	ng		98
59) 2-Hexanone	19.67	43	43828m	0.929	ng		
60) Dibromochloromethane	19.91	129	47050	1.766	ng		100

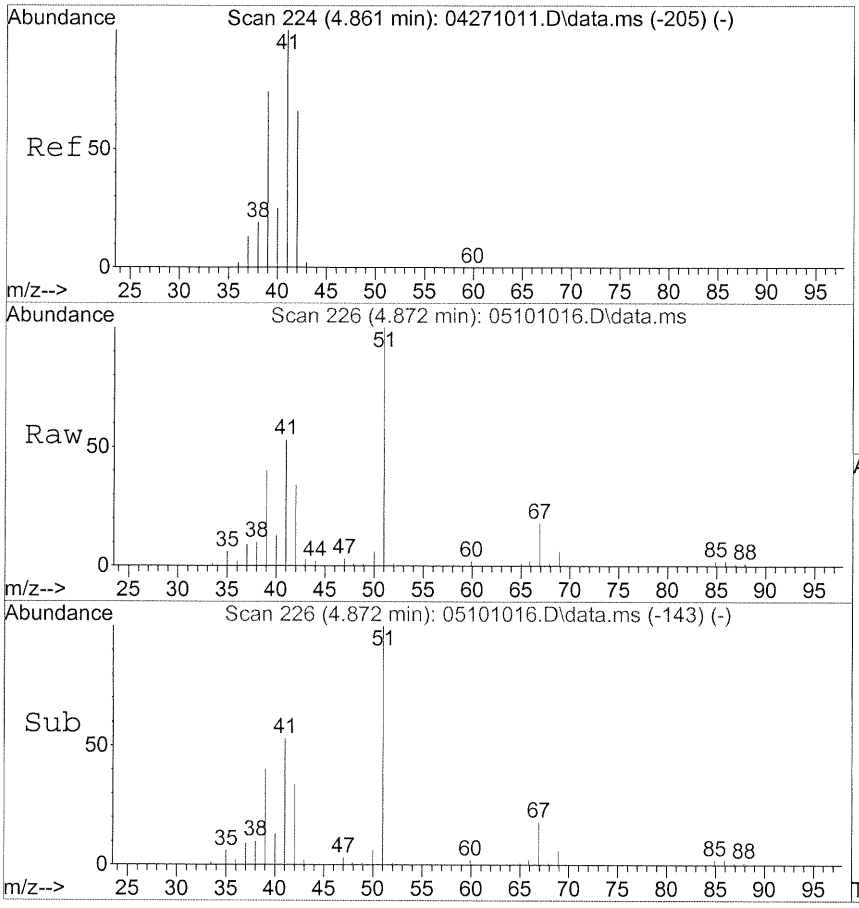
Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 14 07:35:27 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
62) n-Butyl Acetate	20.48	43	164196	3.049	ng		93
63) n-Octane	20.65	57	12179	0.609	ng	#	83
64) Tetrachloroethene	20.84	166	10614	0.305	ng		98
66) Ethylbenzene	22.19	91	156291	1.279	ng		97
67) m- & p-Xylenes	22.40	91	326828	3.386	ng		93
68) Bromoform	22.51	173	6145	0.246	ng		97
69) Styrene	22.87	104	136464	1.797	ng		94
70) o-Xylene	23.01	91	128959	1.310	ng		94
71) n-Nonane	23.27	43	71716	1.671	ng	#	77
74) Cumene	23.75	105	12131	0.090	ng		98
75) alpha-Pinene	24.25	93	1978563	31.709	ng		94
76) n-Propylbenzene	24.38	91	32233	0.207	ng	#	88
78) 4-Ethyltoluene	24.56	105	57727	0.465	ng		91
79) 1,3,5-Trimethylbenzene	24.64	105	33095	0.327	ng		92
82) 1,2,4-Trimethylbenzene	25.15	105	125764	1.201	ng		97
86) 1,4-Dichlorobenzene	25.42	146	2050965	30.977	ng		100
90) 1,2-Dichlorobenzene	25.84	146	10567	0.174	ng		98
91) d-Limonene	25.84	68	1499996	41.252	ng	#	72
95) Naphthalene	28.05	128	98181	0.738	ng		99

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

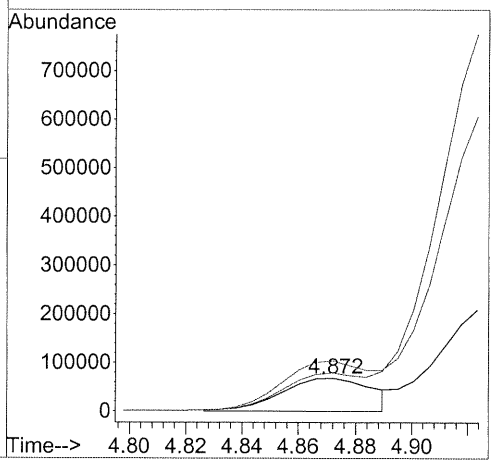
DM 5/17/10

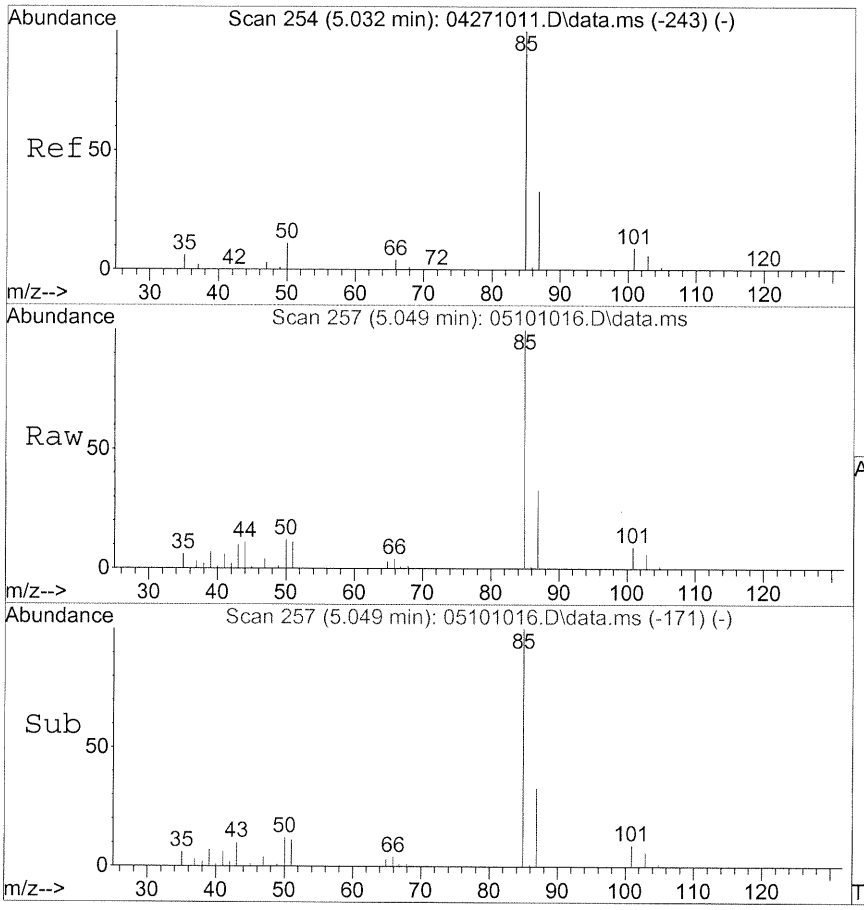


#2
Propene
Concen: 6.67 ng m
RT: 4.87 min Scan# 226
Delta R.T. -0.028 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 42 Resp: 147888

Ion	Ratio	Lower	Upper
42	100		
39	1403.2	92.2	132.2#
41	1076.3	133.9	173.9#

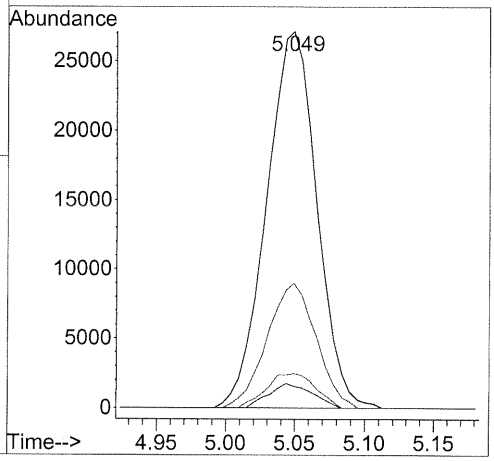


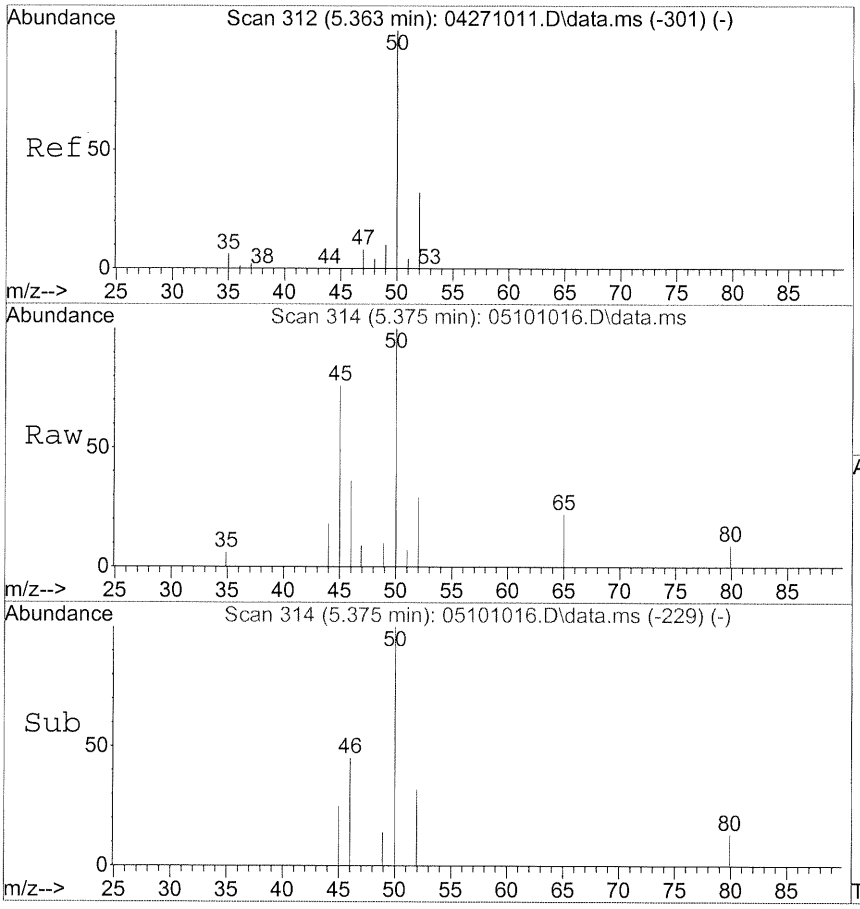


#3
Dichlorodifluoromethane (CFC
Concen: 1.31 ng
RT: 5.05 min Scan# 257
Delta R.T. -0.011 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 85 Resp: 68393

Ion	Ratio	Lower	Upper
85	100		
87	32.2	12.0	52.0
101	8.9	0.0	28.5
103	5.5	0.0	25.4

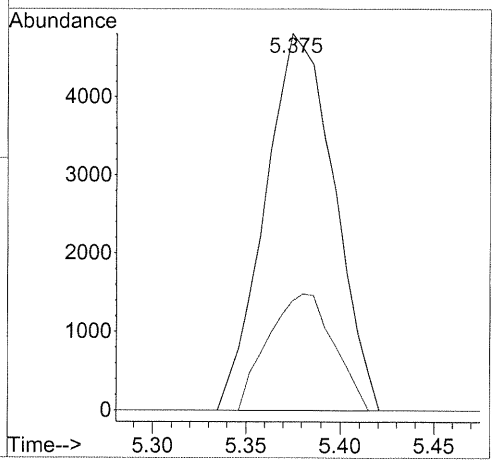


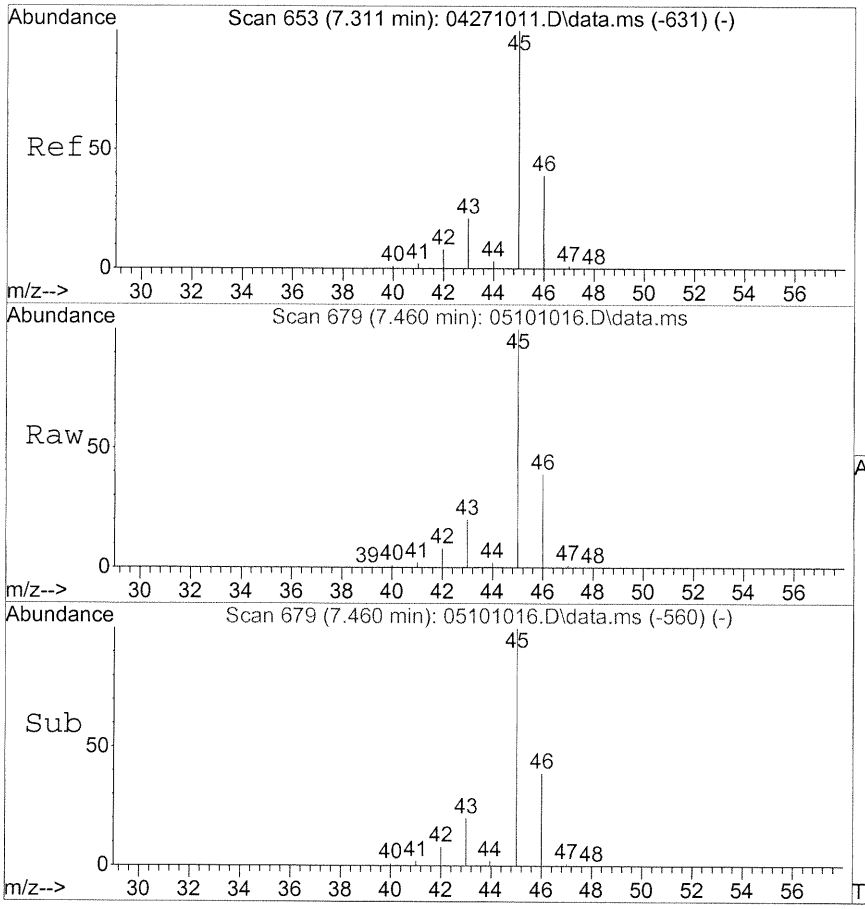


#4
Chloromethane
Concen: 0.39 ng
RT: 5.37 min Scan# 314
Delta R.T. -0.017 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 50 Resp: 12184

Ion	Ratio	Lower	Upper
50	100		
52	29.2	12.1	52.1

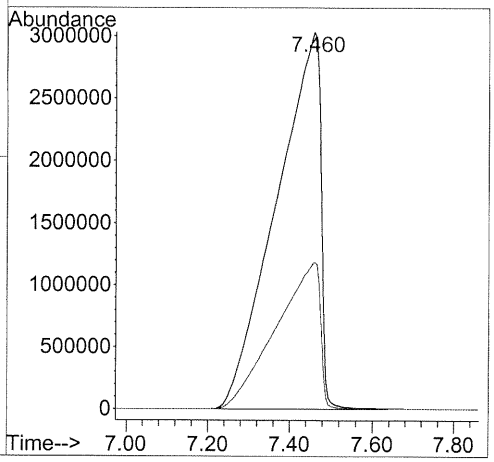


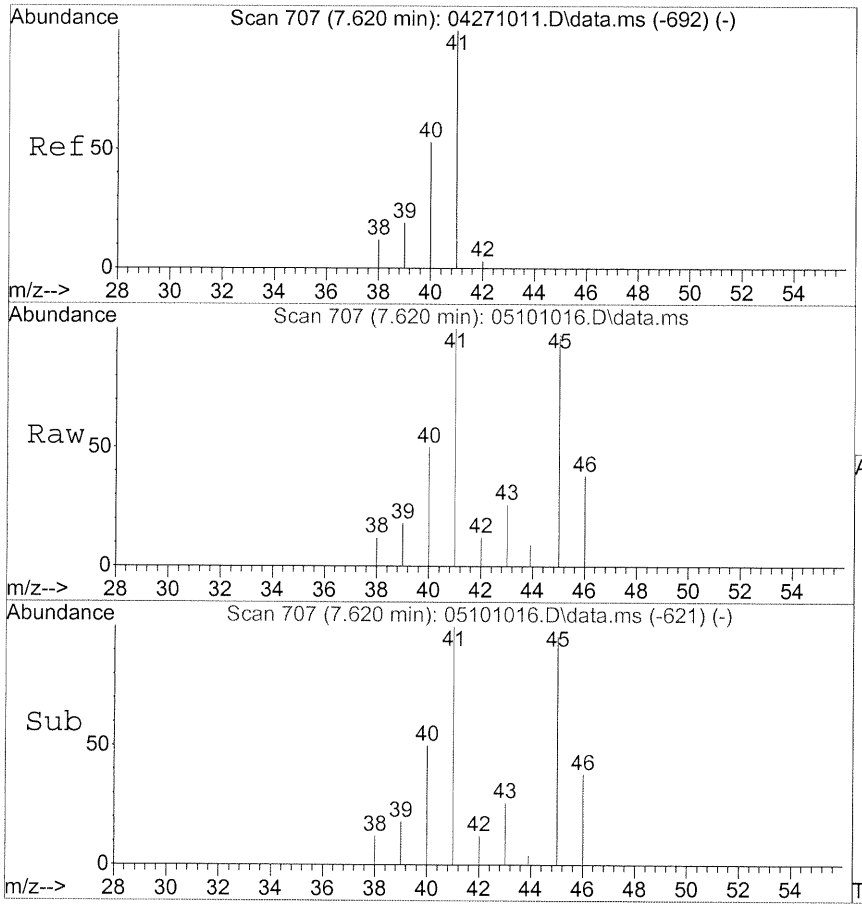


#10
Ethanol
Concen: 1681.75 ng m
RT: 7.46 min Scan# 679
Delta R.T. 0.177 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 45 Resp:22702171

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.4	58.4#

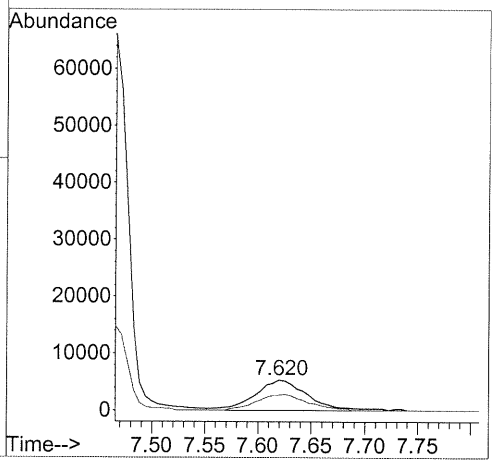


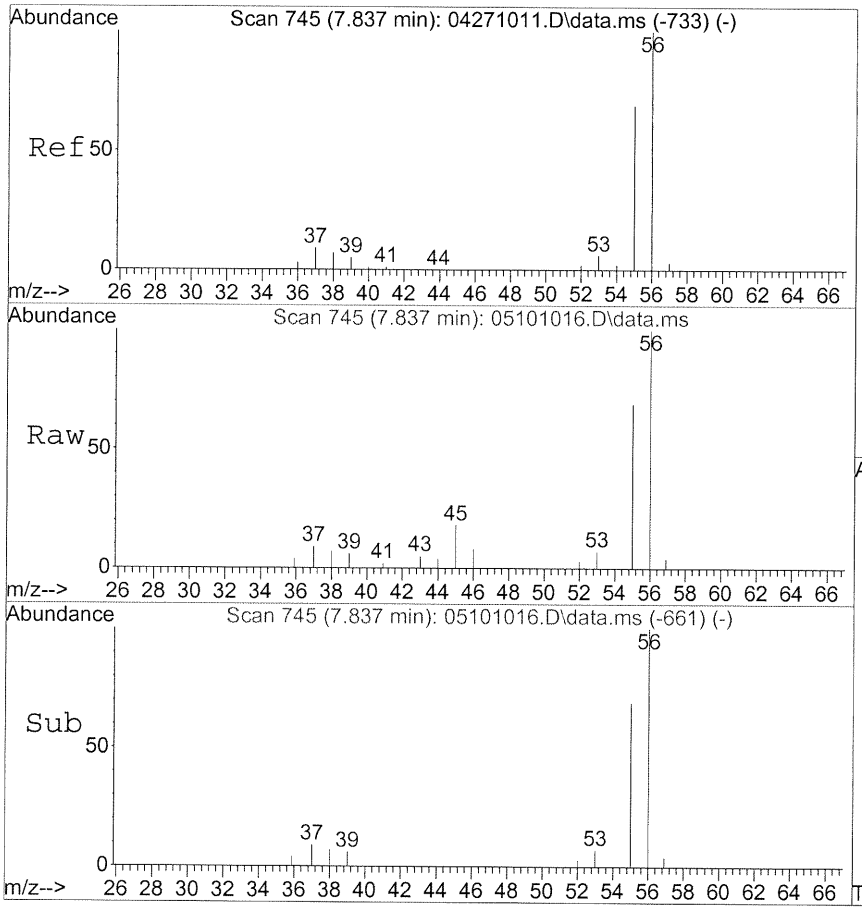


#11
Acetonitrile
Concen: 0.56 ng
RT: 7.62 min Scan# 707
Delta R.T. -0.011 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 41 Resp: 18323

Ion	Ratio	Lower	Upper
41	100		
40	49.9	32.7	72.7

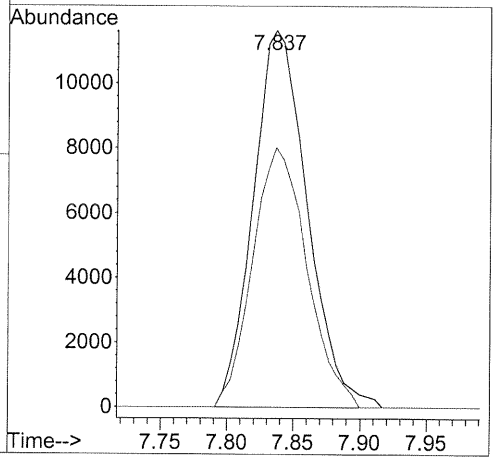


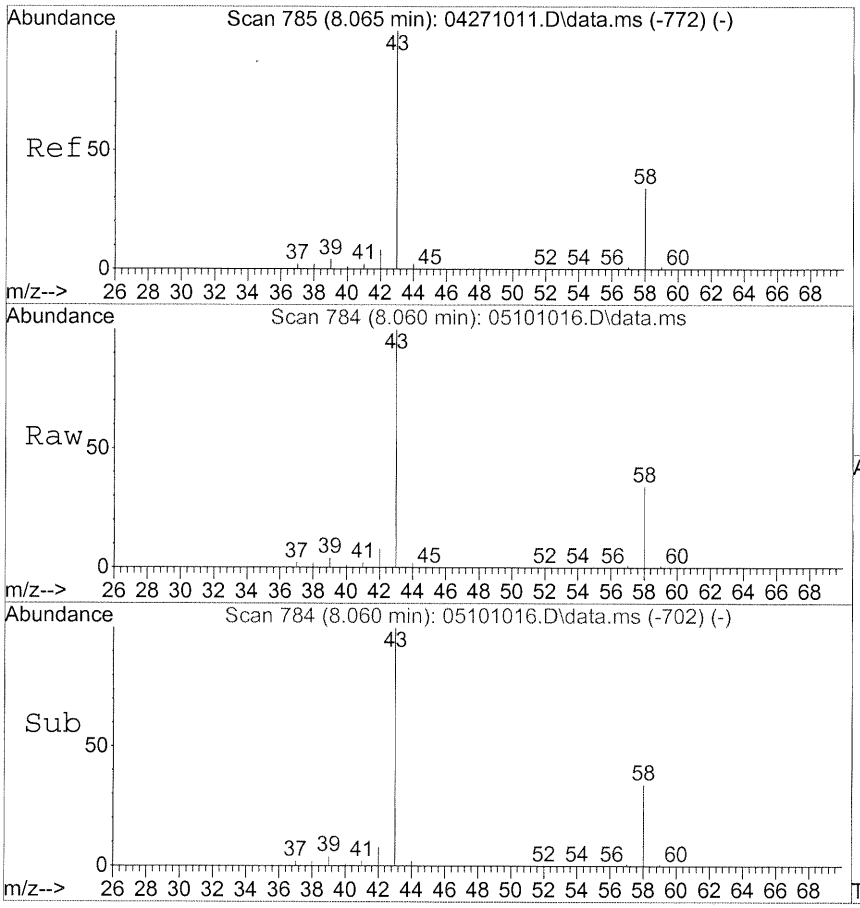


#12
Acrolein
Concen: 2.48 ng
RT: 7.84 min Scan# 745
Delta R.T. -0.022 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 56 Resp: 33055

Ion	Ratio	Lower	Upper
56	100		
55	69.2	50.5	90.5

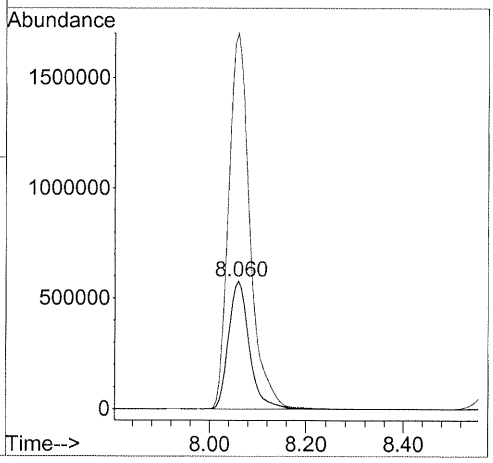


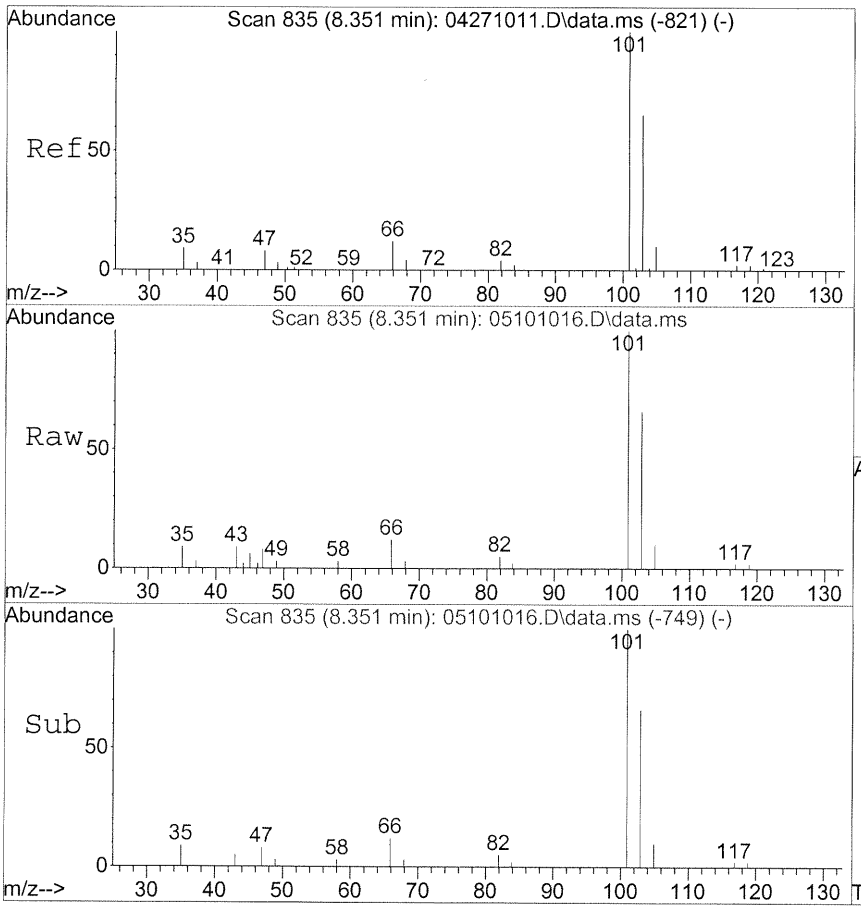


#13
Acetone
Concen: 99.75 ng
RT: 8.06 min Scan# 784
Delta R.T. -0.034 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 58 Resp: 1720690

Ion	Ratio	Lower	Upper
58	100		
43	302.9	295.0	355.0

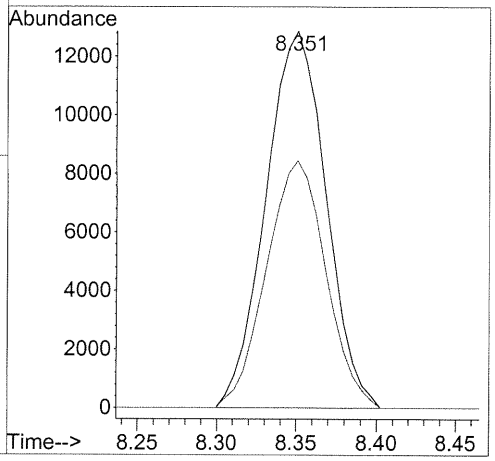


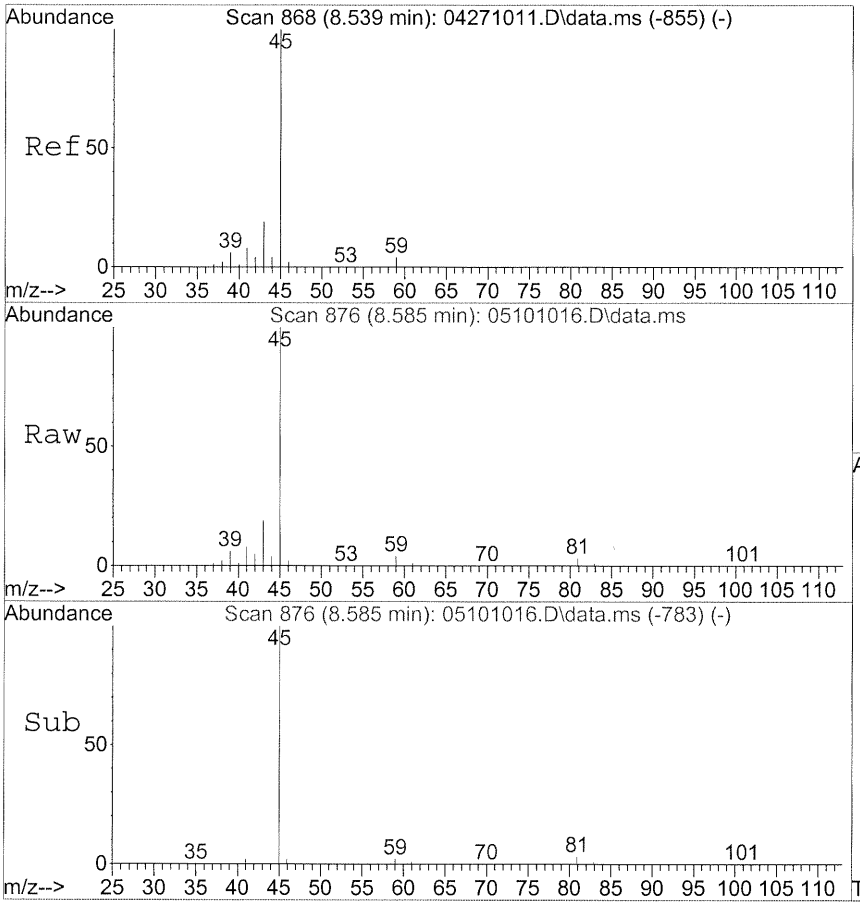


#14
Trichlorofluoromethane
Concen: 0.71 ng
RT: 8.35 min Scan# 835
Delta R.T. -0.011 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:101 Resp: 33709

Ion	Ratio	Lower	Upper
101	100		
103	64.9	43.8	83.8

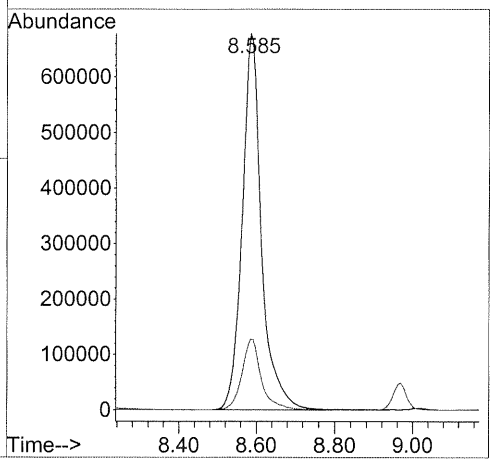


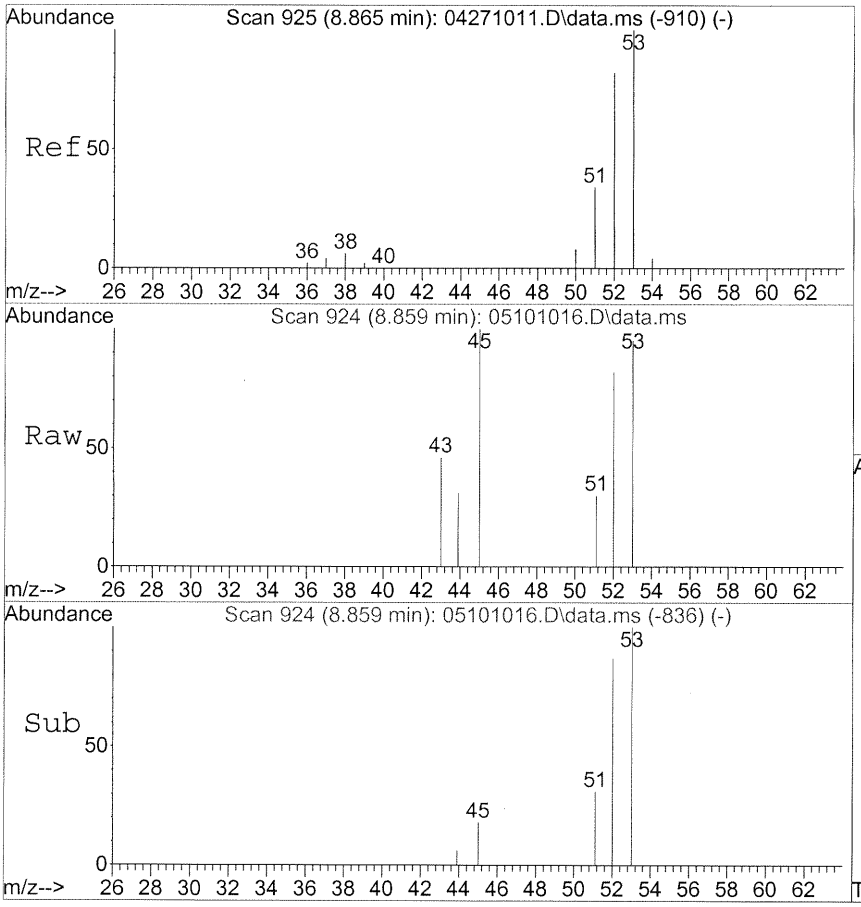


#15
2-Propanol (Isopropanol)
Concen: 46.43 ng
RT: 8.59 min Scan# 876
Delta R.T. 0.029 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 45 Resp: 2333746

Ion	Ratio	Lower	Upper
45	100		
43	18.9	0.0	39.2

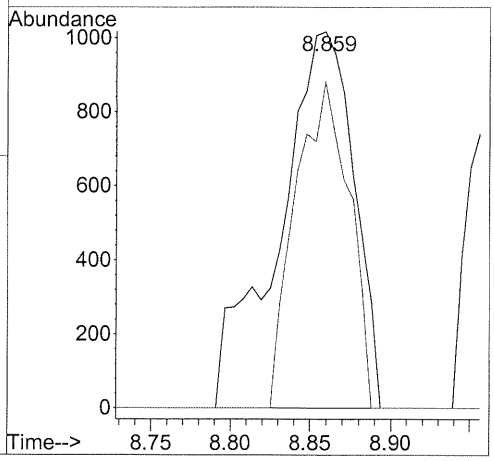


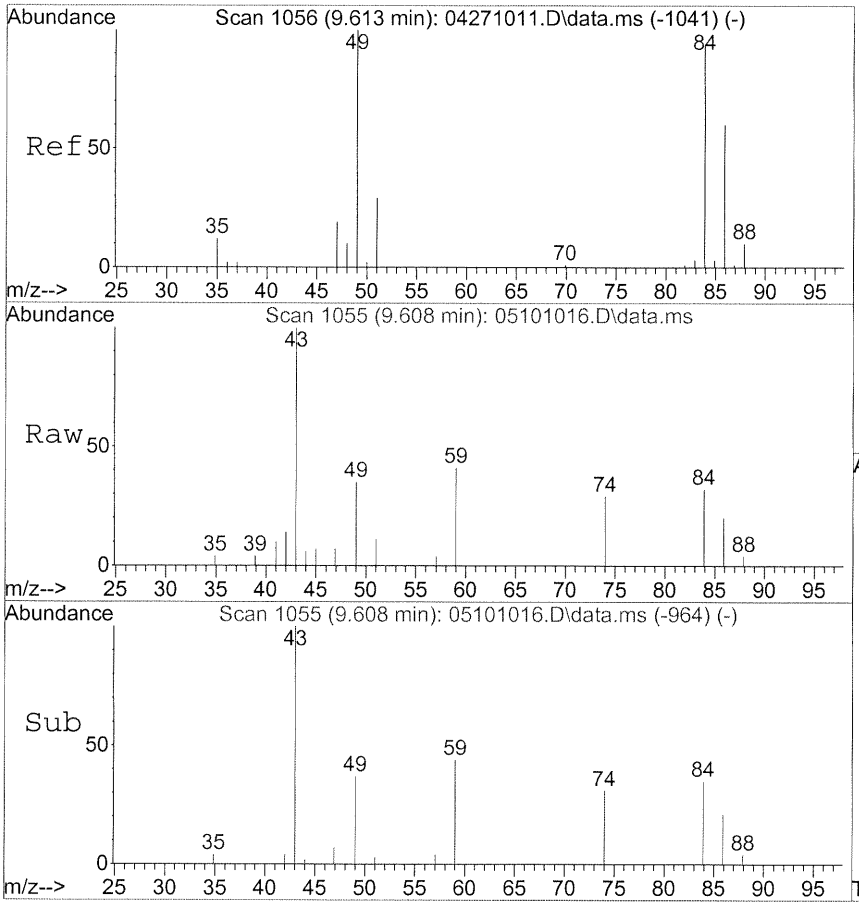


#16
Acrylonitrile
Concen: 0.13 ng
RT: 8.86 min Scan# 924
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 53 Resp: 3302

Ion	Ratio	Lower	Upper
53	100		
52	61.7	64.1	104.1#

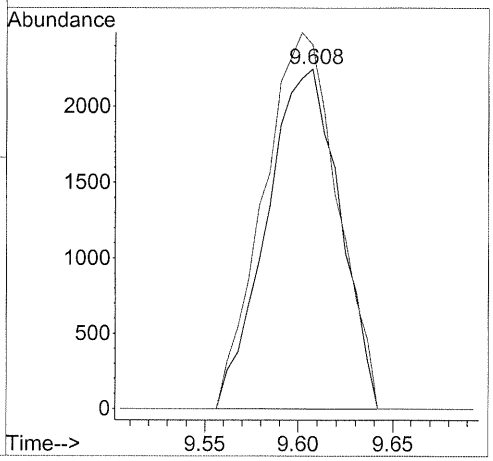


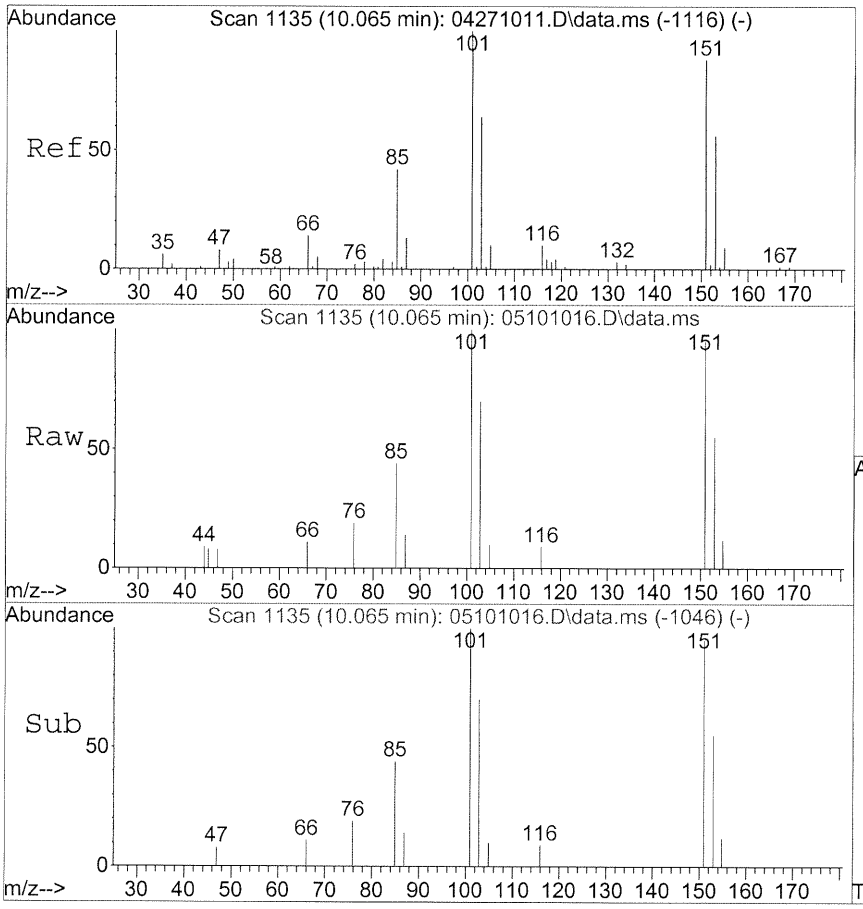


#19
Methylene Chloride
Concen: 0.23 ng
RT: 9.61 min Scan# 1055
Delta R.T. 0.017 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 84 Resp: 6035

Ion	Ratio	Lower	Upper
84	100		
49	111.9	116.6	166.6#

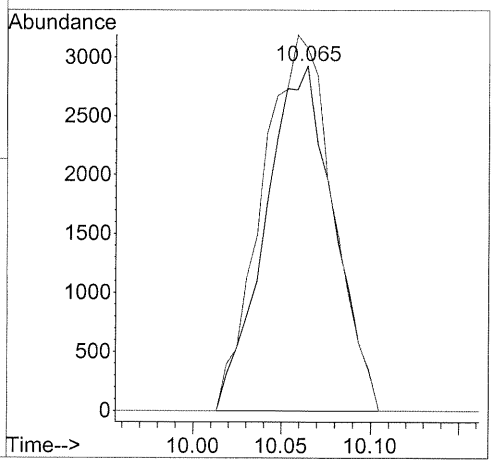


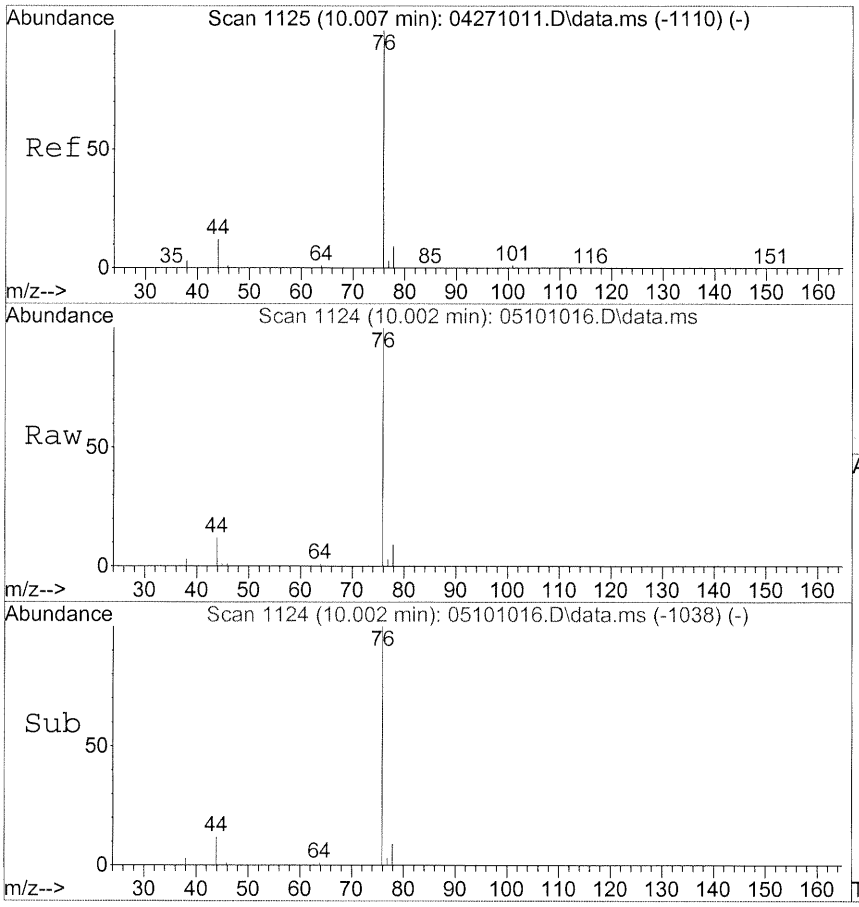


#21
Trichlorotrifluoroethane
Concen: 0.33 ng
RT: 10.06 min Scan# 1135
Delta R.T. 0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:151 Resp: 7801

Ion	Ratio	Lower	Upper
151	100		
101	112.9	125.6	165.6#

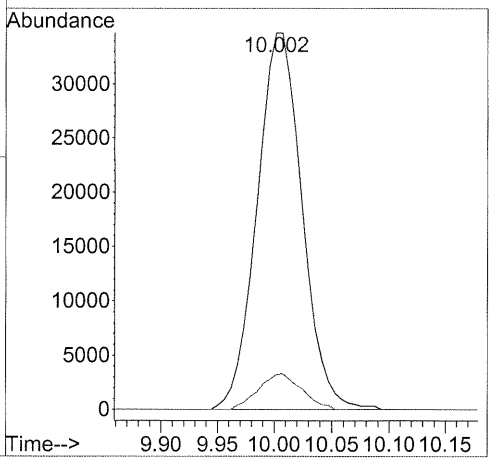


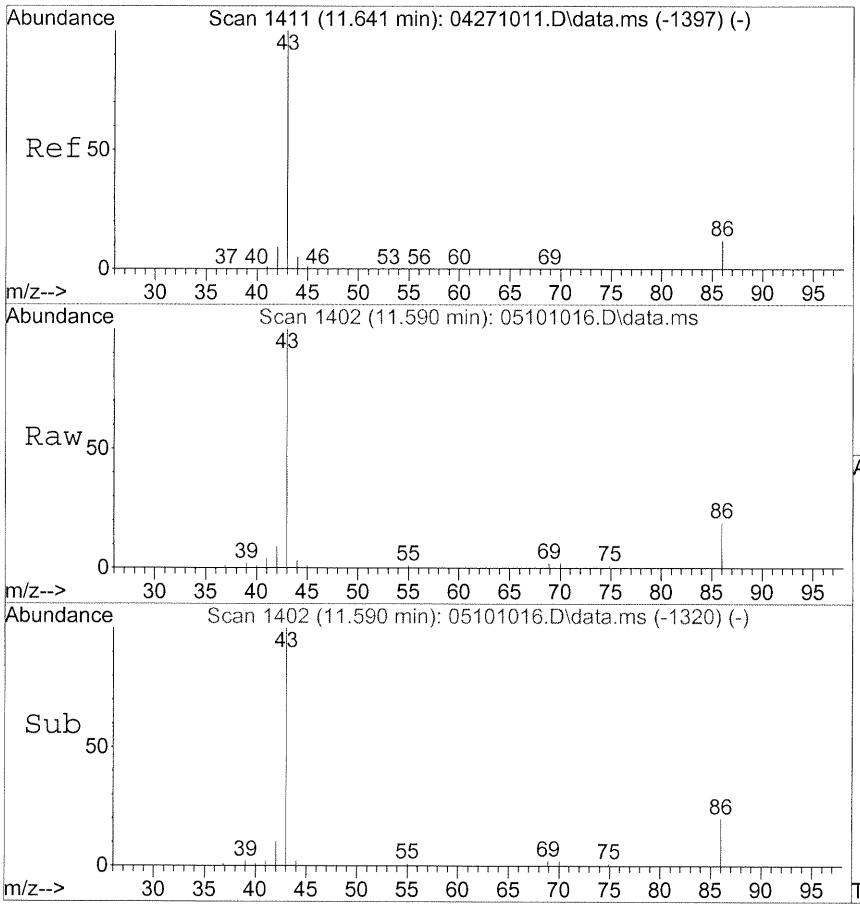


#22
Carbon Disulfide
Concen: 1.14 ng
RT: 10.00 min Scan# 1124
Delta R.T. -0.011 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 76 Resp: 95577

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.1

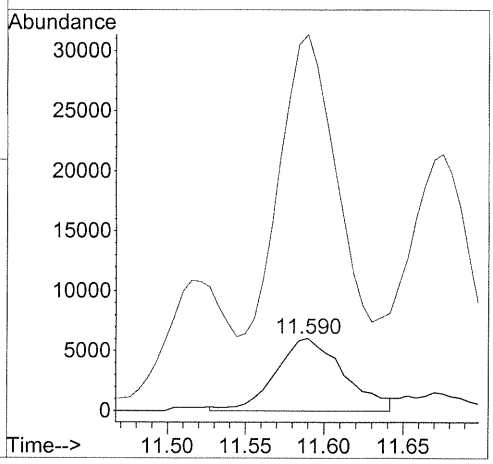


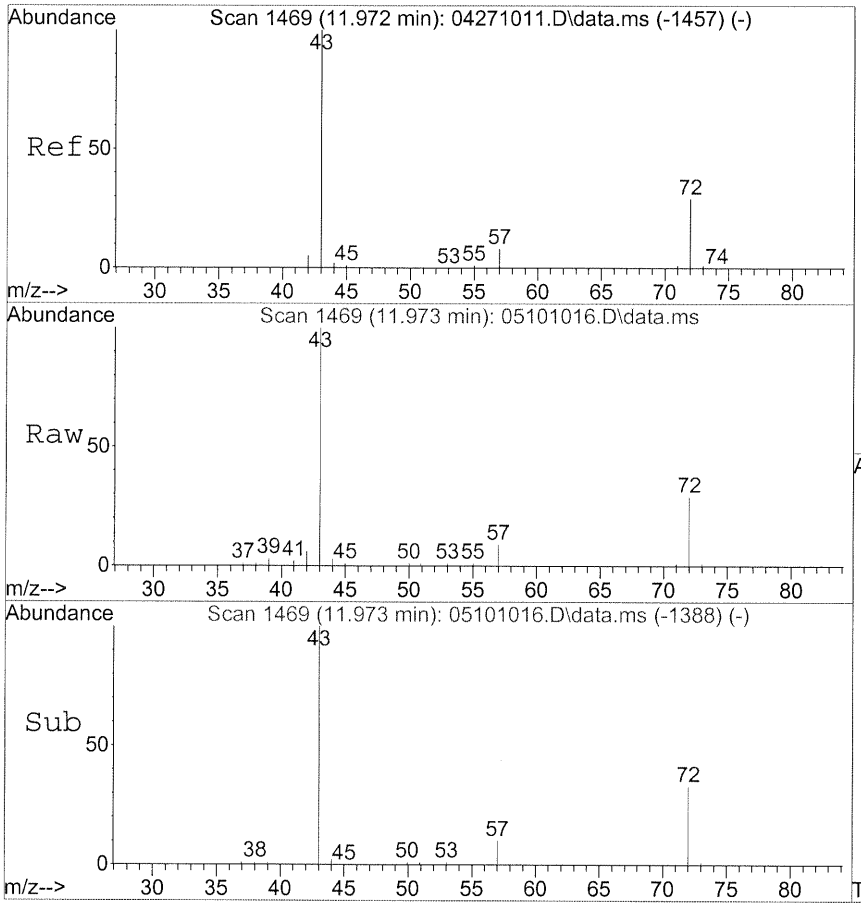


#26
Vinyl Acetate
Concen: 3.01 ng m
RT: 11.59 min Scan# 1402
Delta R.T. -0.034 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 86 Resp: 18054

Ion	Ratio	Lower	Upper
86	100		
43	340.9	1285.5	1325.5#

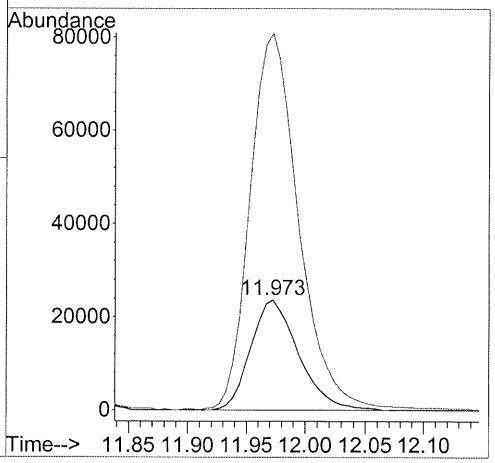


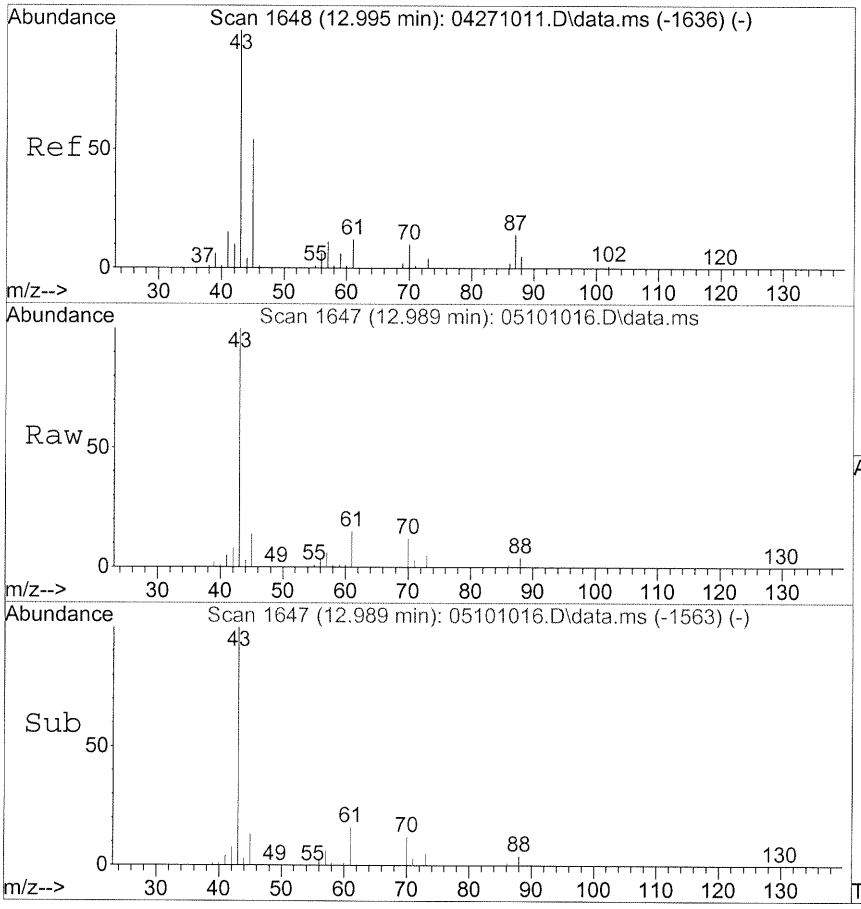


#27
2-Butanone (MEK)
Concen: 4.19 ng
RT: 11.97 min Scan# 1469
Delta R.T. -0.040 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 72 Resp: 66355

Ion	Ratio	Lower	Upper
72	100		
43	351.2	412.3	452.3#

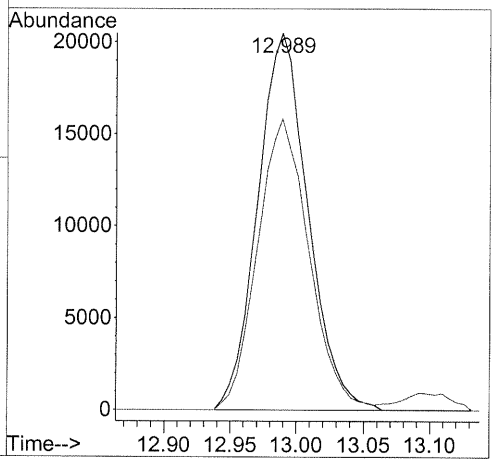


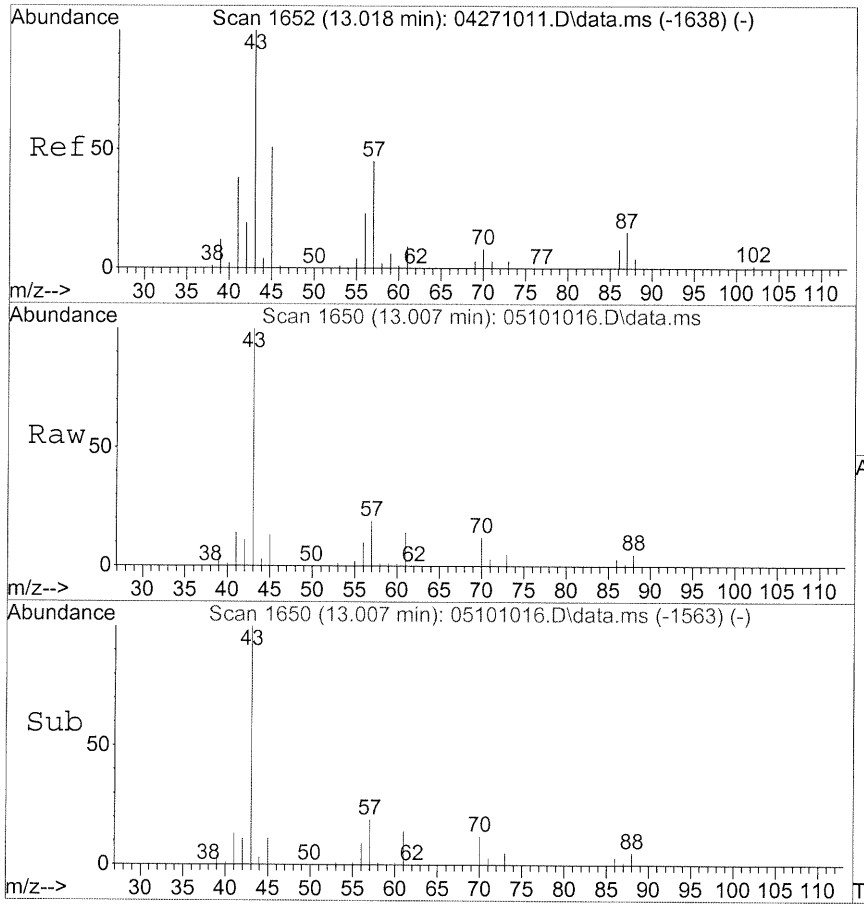


#30
Ethyl Acetate
Concen: 6.44 ng
RT: 12.99 min Scan# 1647
Delta R.T. -0.023 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 61 Resp: 54151

Ion	Ratio	Lower	Upper
61	100		
70	79.3	52.2	92.2

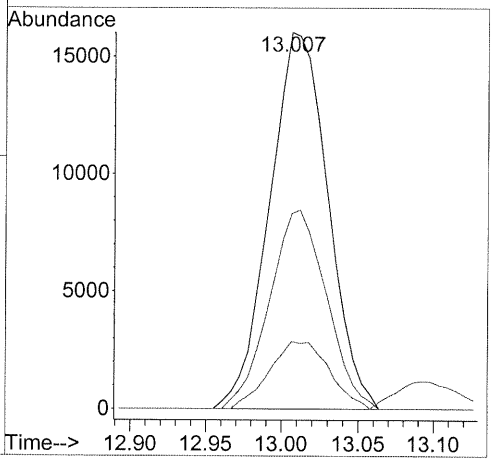


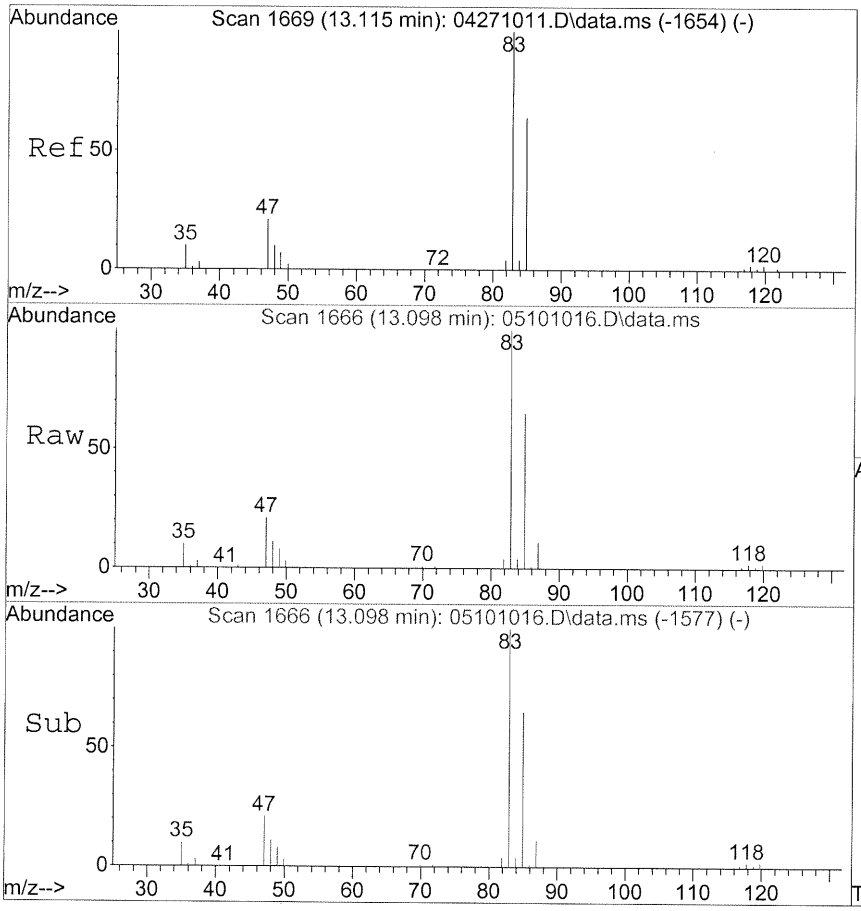


#31
n-Hexane
Concen: 1.06 ng
RT: 13.01 min Scan# 1650
Delta R.T. -0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 57 Resp: 42361

Ion	Ratio	Lower	Upper
57	100		
56	51.7	40.0	60.0
86	18.3	11.5	17.3#

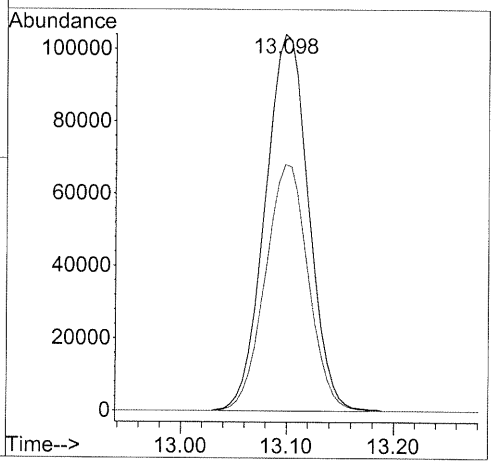


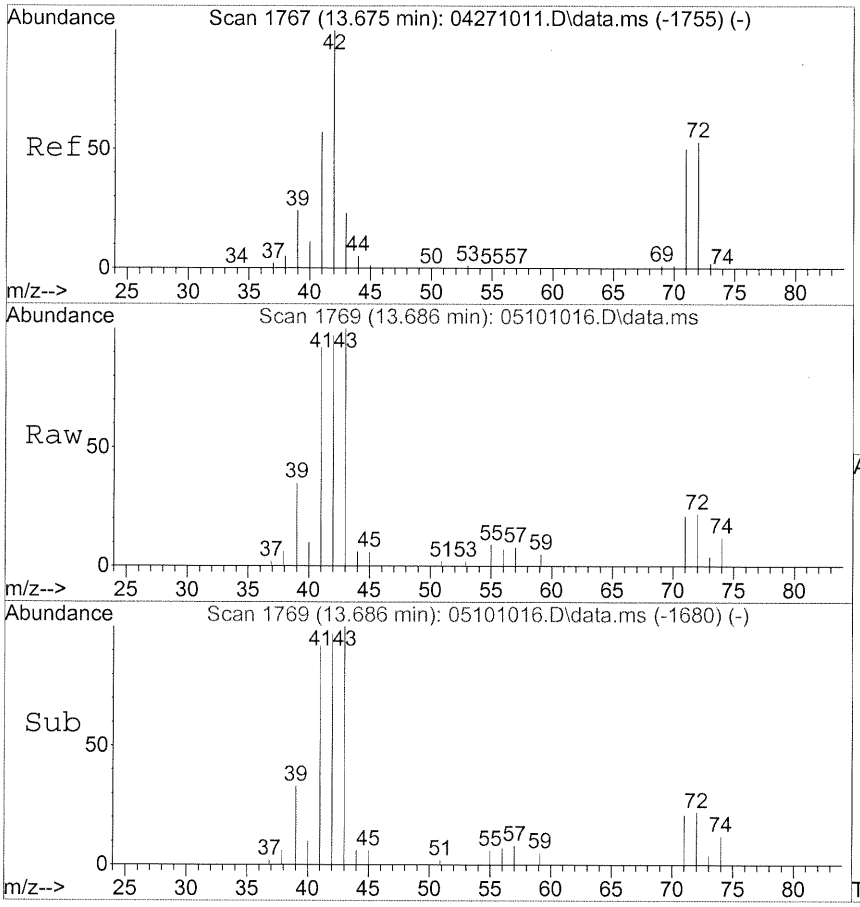


#32
Chloroform
Concen: 6.95 ng
RT: 13.10 min Scan# 1666
Delta R.T. 0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 83 Resp: 296419

Ion	Ratio	Lower	Upper
83	100		
85	64.8	44.0	84.0

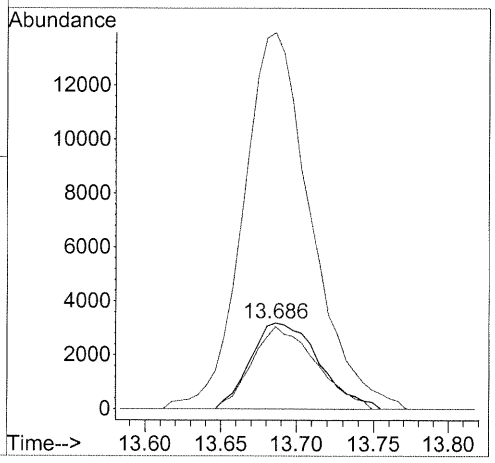


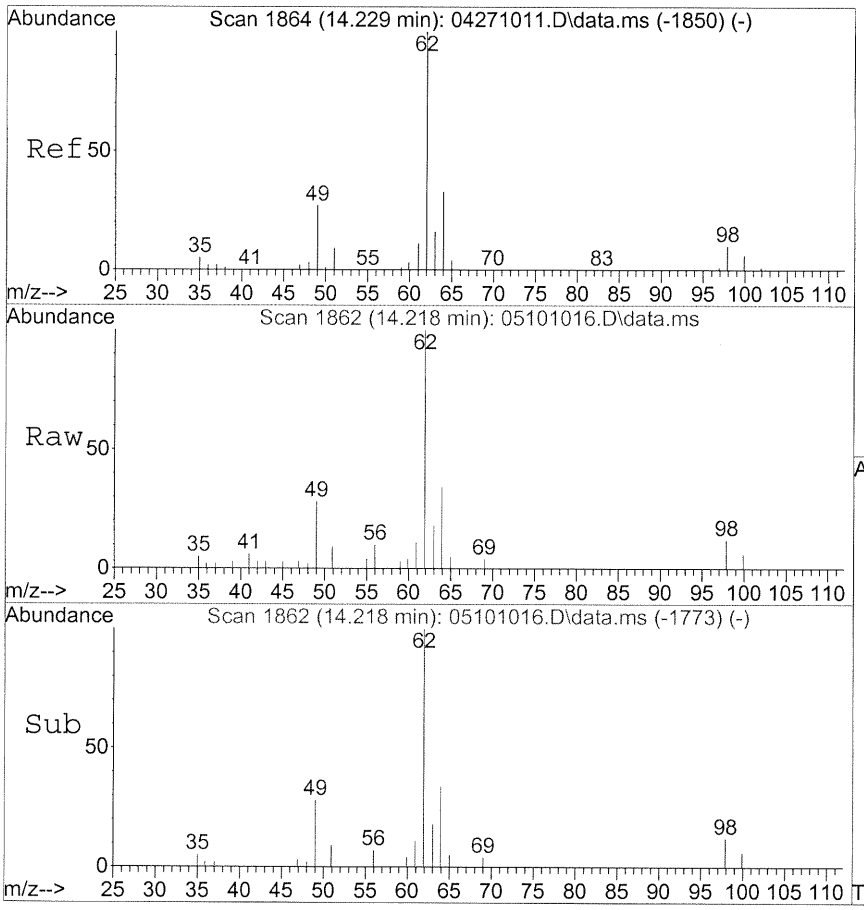


#34
Tetrahydrofuran (THF)
Concen: 0.64 ng
RT: 13.69 min Scan# 1769
Delta R.T. 0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 72 Resp: 9924

Ion	Ratio	Lower	Upper
72	100		
71	89.4	76.0	116.0
42	434.7	231.9	271.9#

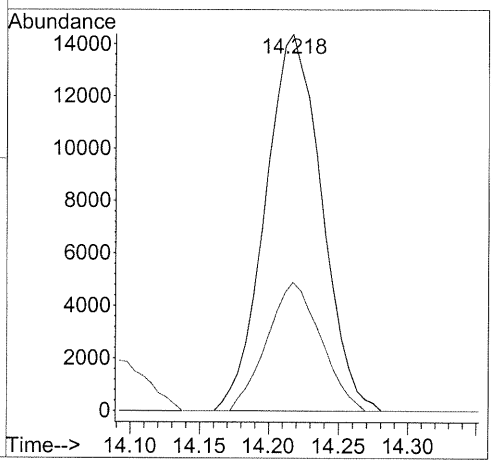


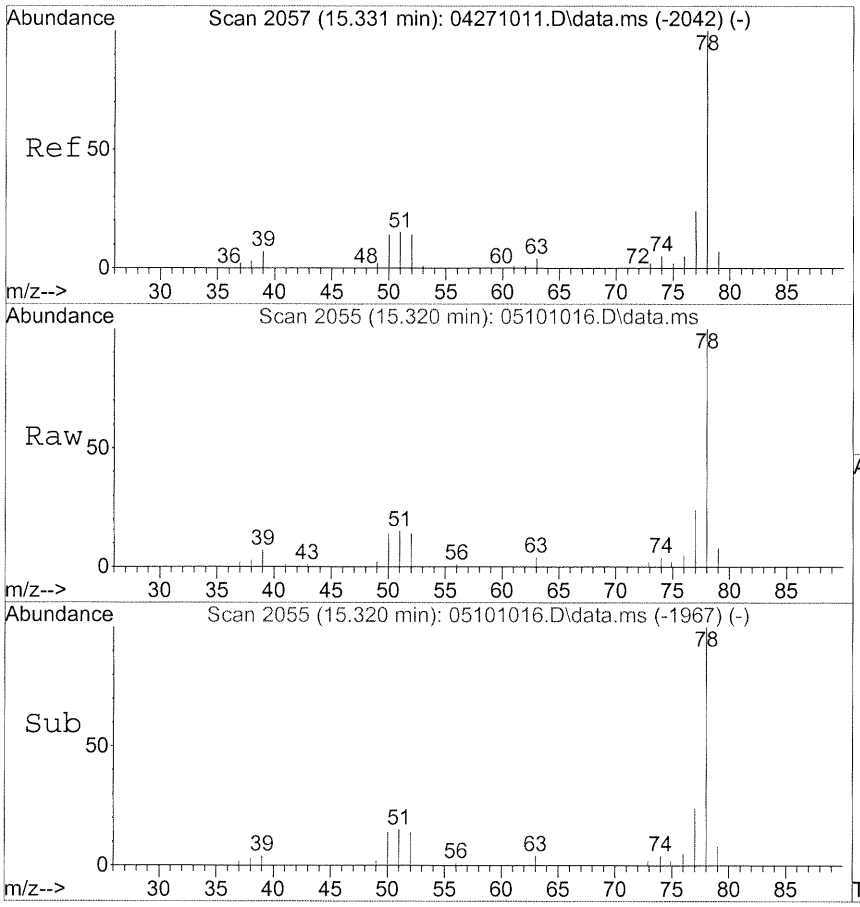


#36
1,2-Dichloroethane
Concen: 1.27 ng
RT: 14.22 min Scan# 1862
Delta R.T. 0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 62 Resp: 40522

Ion	Ratio	Lower	Upper
62	100		
64	32.5	12.0	52.0

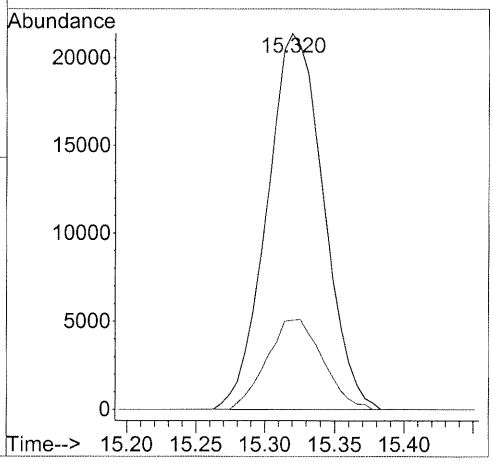


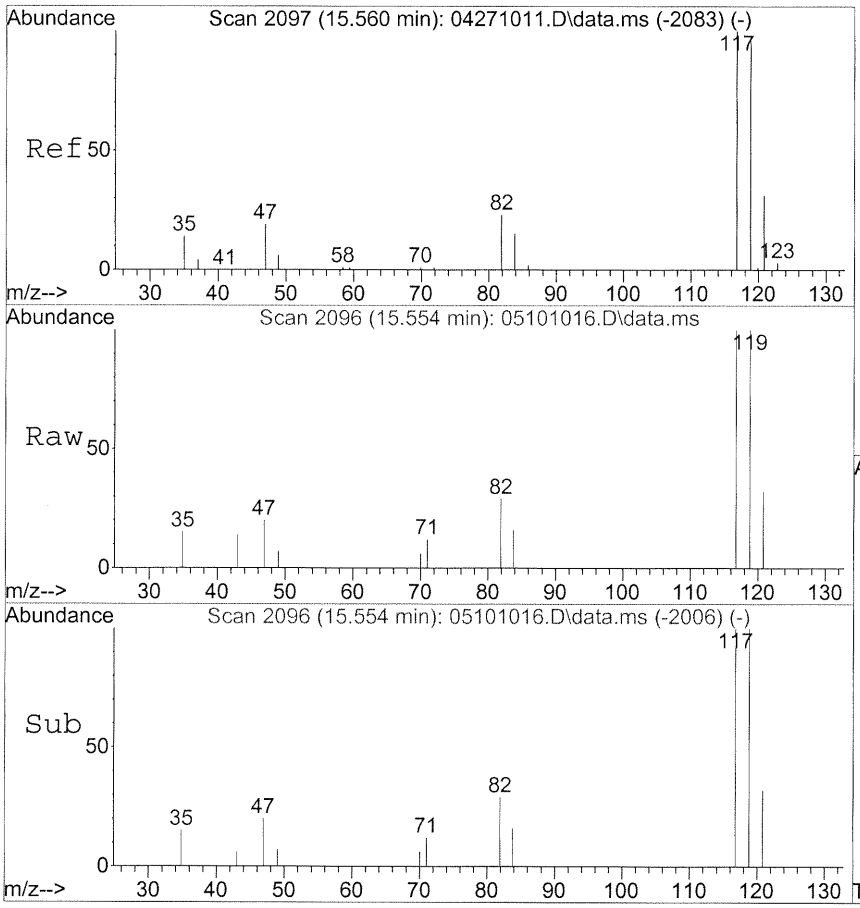


#41
Benzene
Concen: 0.57 ng
RT: 15.32 min Scan# 2055
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 78 Resp: 59998

Ion	Ratio	Lower	Upper
78	100		
77	23.6	4.4	44.4

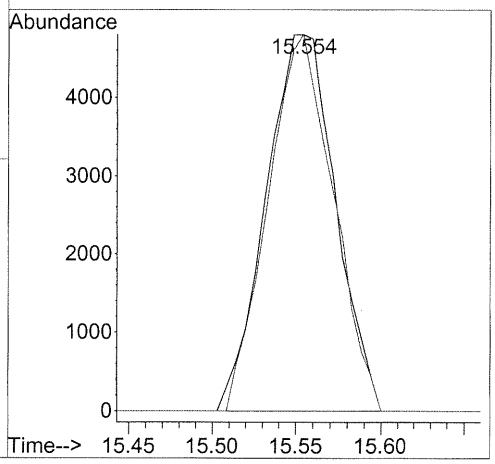


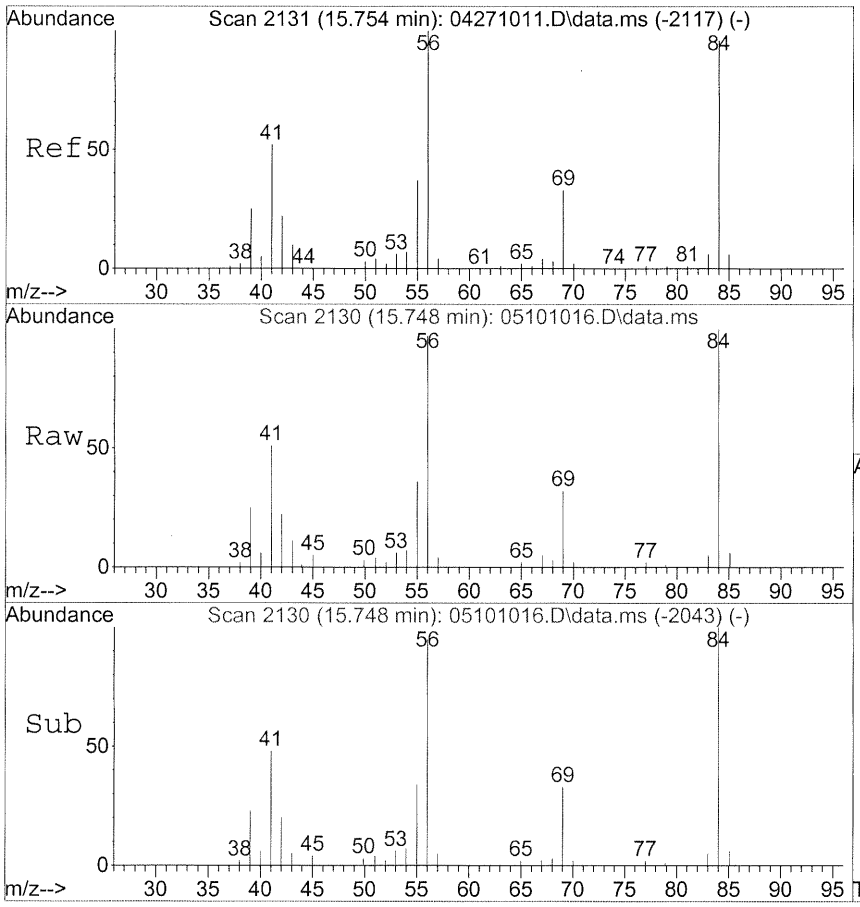


#42
Carbon Tetrachloride
Concen: 0.43 ng
RT: 15.55 min Scan# 2096
Delta R.T. 0.012 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:117 Resp: 13686

Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.8	115.8

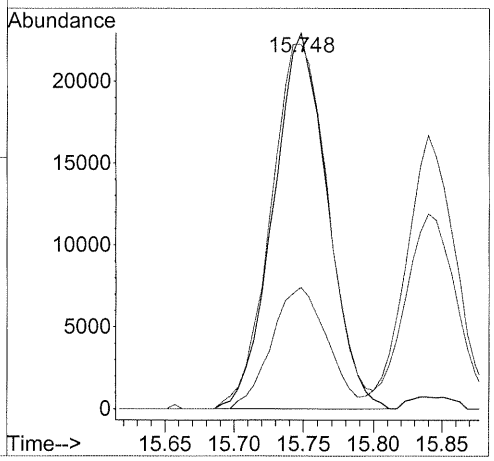


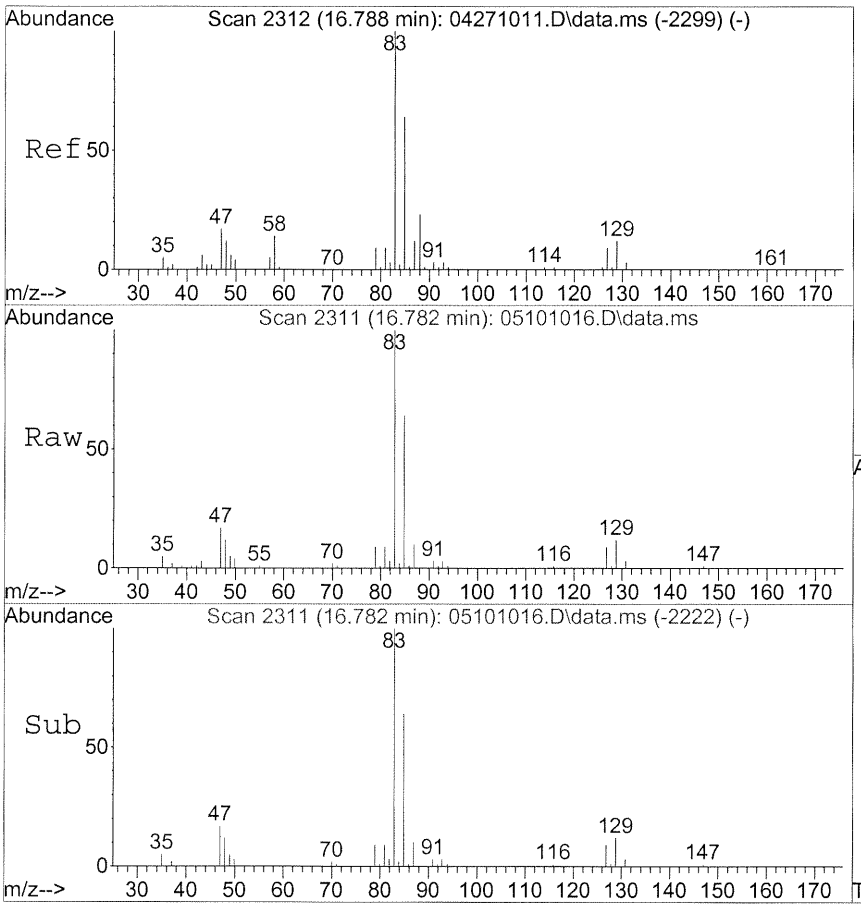


#43
Cyclohexane
Concen: 1.58 ng
RT: 15.75 min Scan# 2130
Delta R.T. -0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 84 Resp: 61586

Ion	Ratio	Lower	Upper
84	100		
69	33.1	18.4	58.4
56	103.8	112.6	152.6#

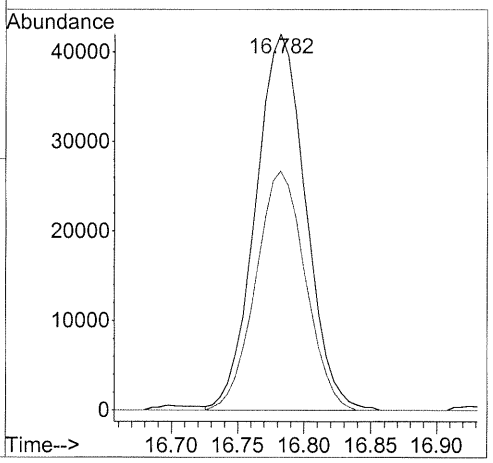


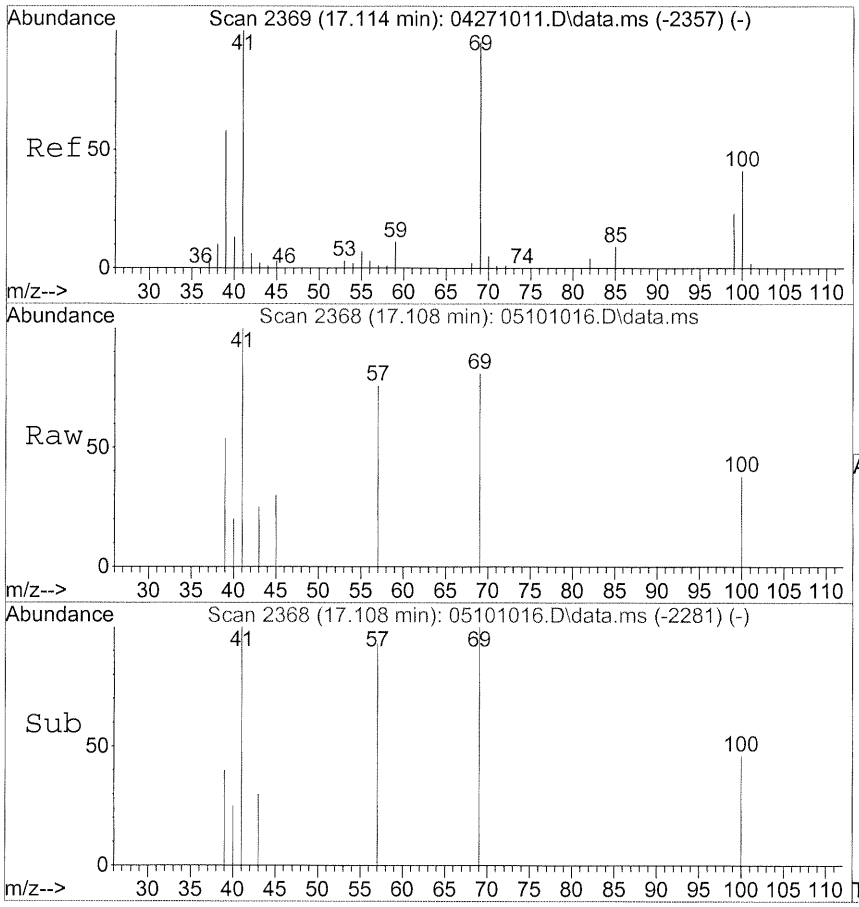


#46
Bromodichloromethane
Concen: 3.52 ng
RT: 16.78 min Scan# 2311
Delta R.T. 0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 83 Resp: 110304

Ion	Ratio	Lower	Upper
83	100		
85	63.0	42.8	82.8

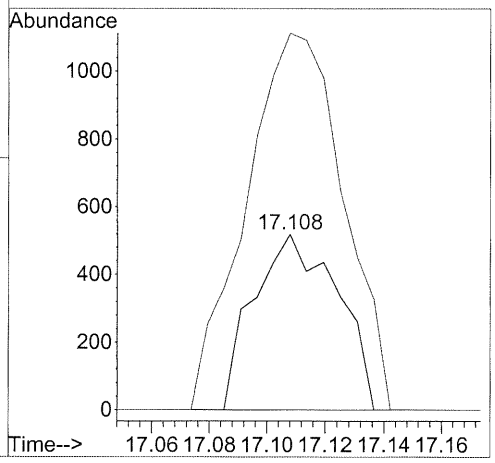


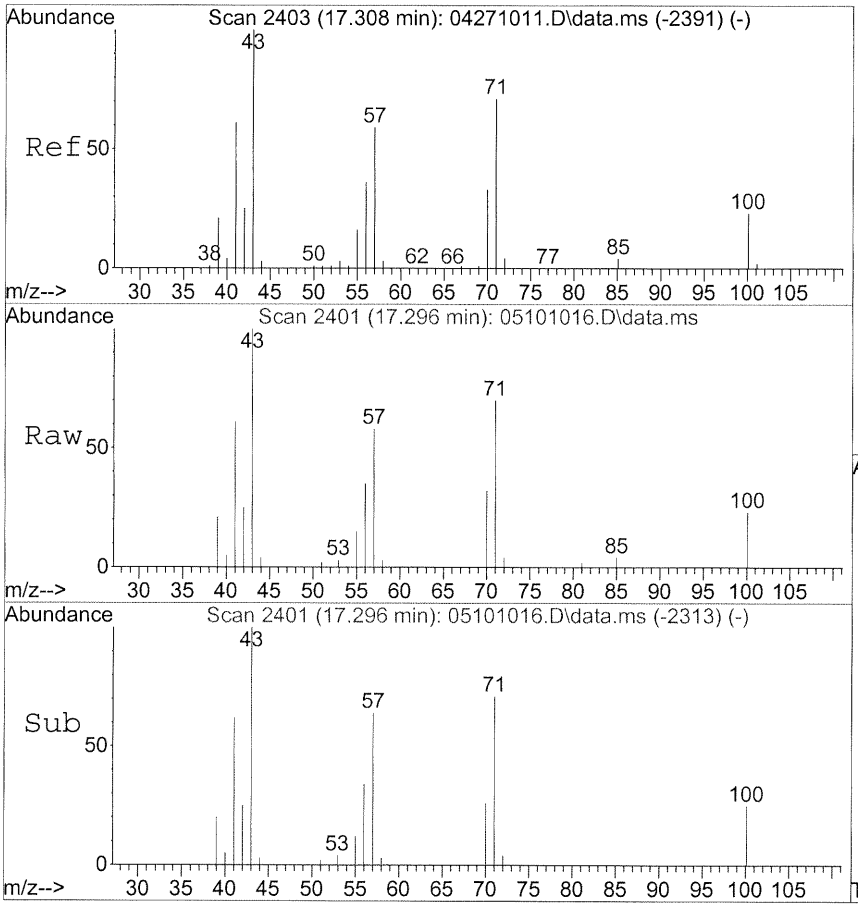


#50
Methyl Methacrylate
Concen: 0.09 ng
RT: 17.11 min Scan# 2368
Delta R.T. -0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:100 Resp: 1035

Ion	Ratio	Lower	Upper
100	100		
69	249.2	291.5	331.5#

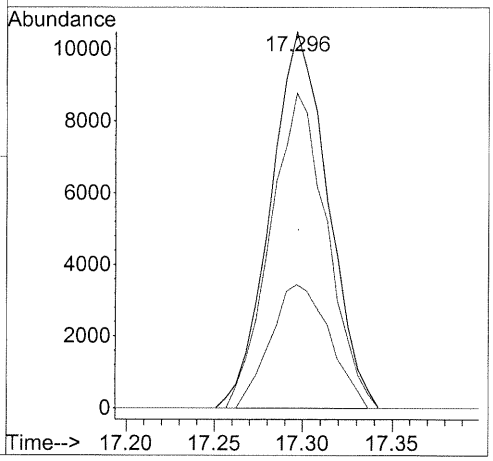


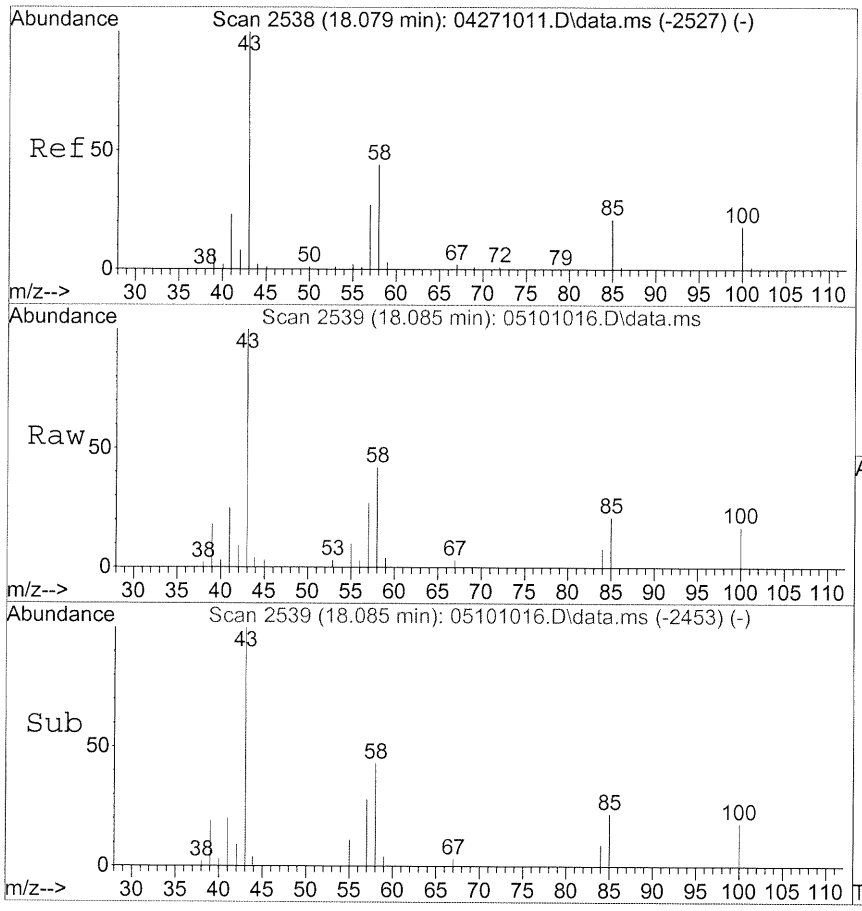


#51
n-Heptane
Concen: 0.95 ng
RT: 17.30 min Scan# 2401
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 71 Resp: 23570

Ion	Ratio	Lower	Upper
71	100		
57	82.9	74.9	114.9
100	33.6	5.0	45.0

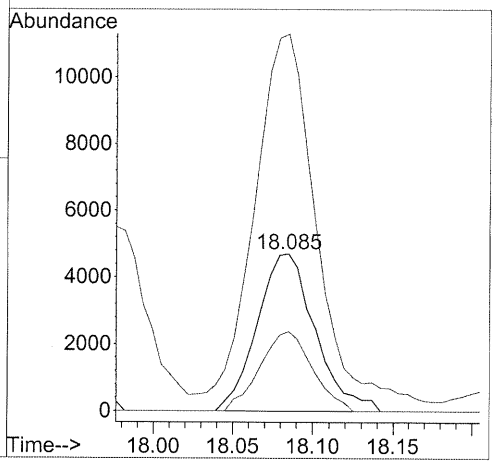


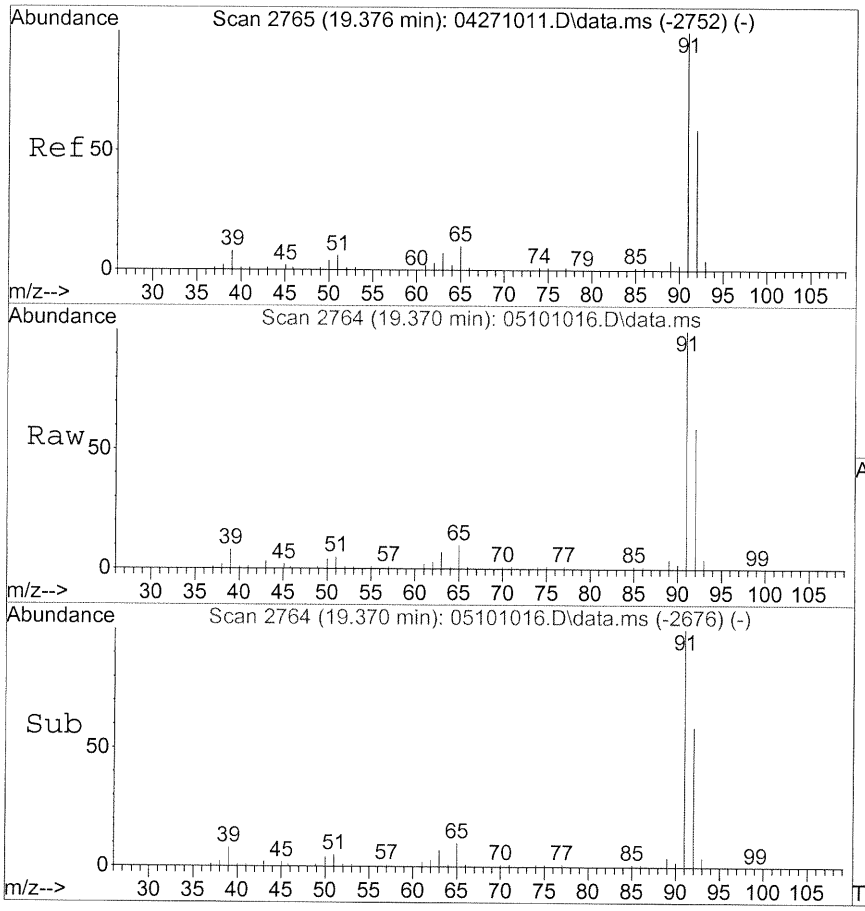


#53
4-Methyl-2-pentanone
Concen: 0.59 ng
RT: 18.08 min Scan# 2539
Delta R.T. -0.011 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 58 Resp: 11763

Ion	Ratio	Lower	Upper
58	100		
43	244.6	207.1	310.7
85	45.7	31.4	47.2

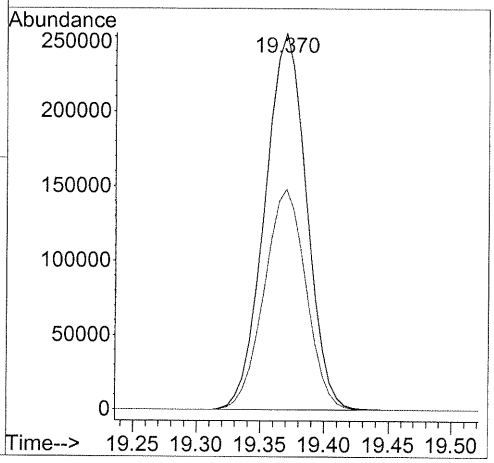


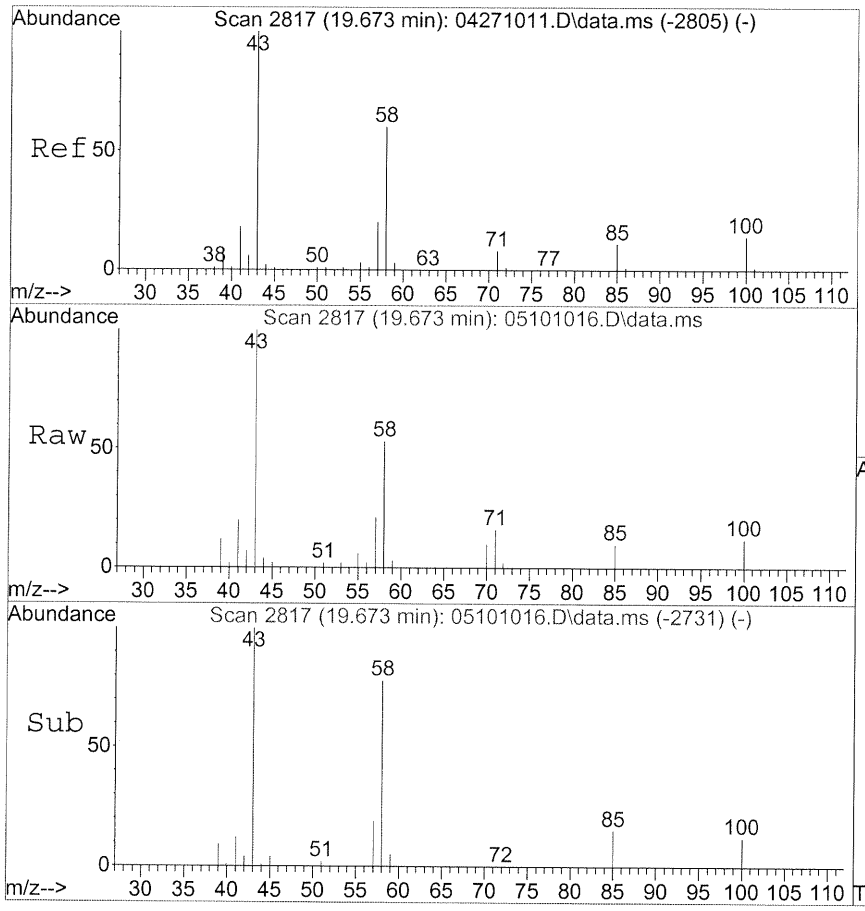


#58
Toluene
Concen: 5.15 ng
RT: 19.37 min Scan# 2764
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 91 Resp: 574489

Ion	Ratio	Lower	Upper
91	100		
92	58.8	37.6	77.6

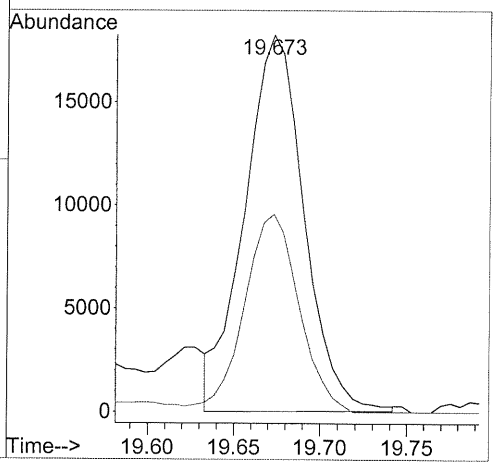


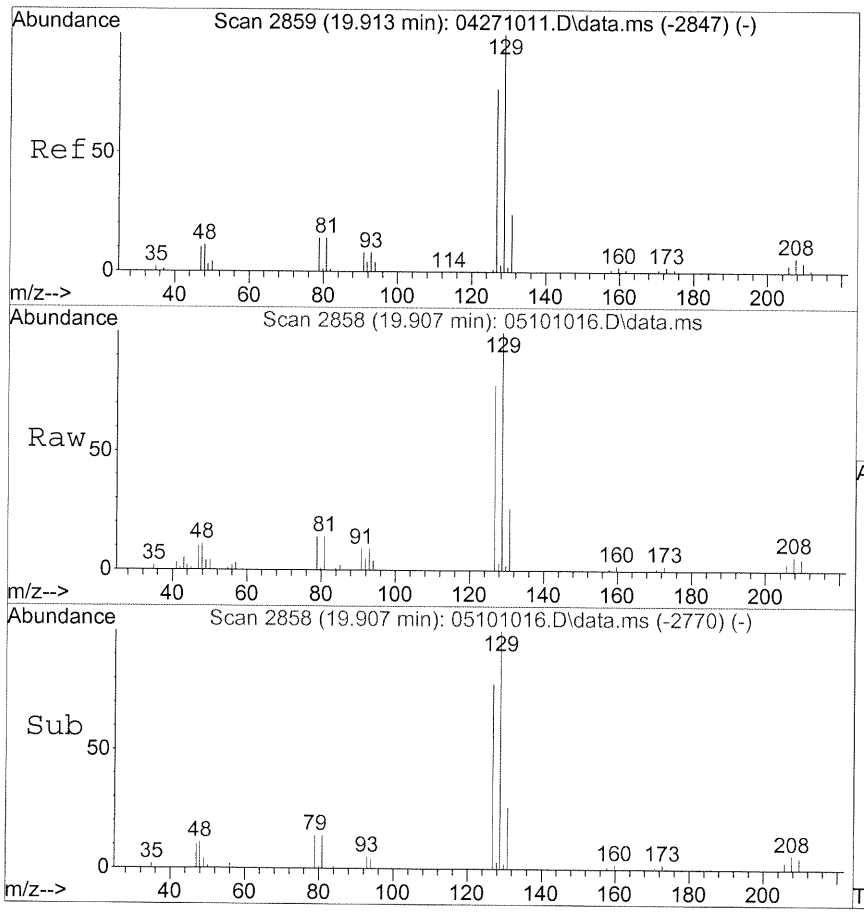


#59
2-Hexanone
Concen: 0.93 ng m
RT: 19.67 min Scan# 2817
Delta R.T. -0.011 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 43 Resp: 43828

Ion	Ratio	Lower	Upper
43	100		
58	48.2	33.3	73.3

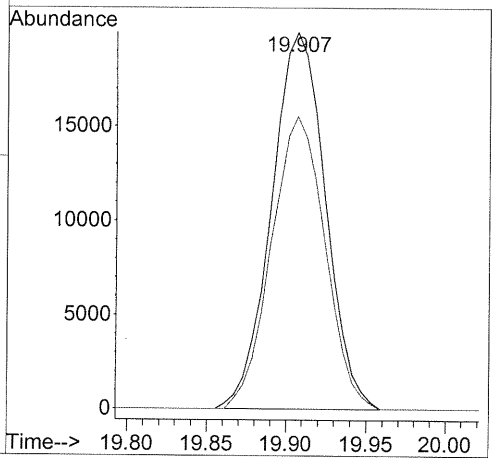


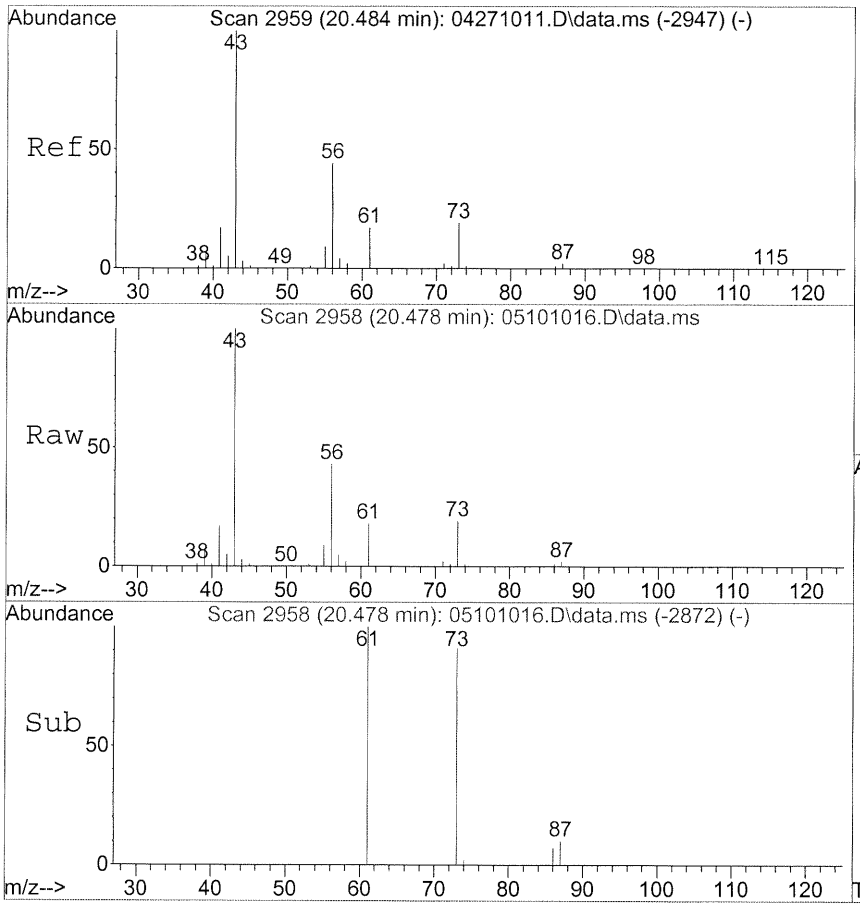


#60
Dibromochloromethane
Concen: 1.77 ng
RT: 19.91 min Scan# 2858
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:129 Resp: 47050

Ion	Ratio	Lower	Upper
129	100		
127	77.3	57.2	97.2

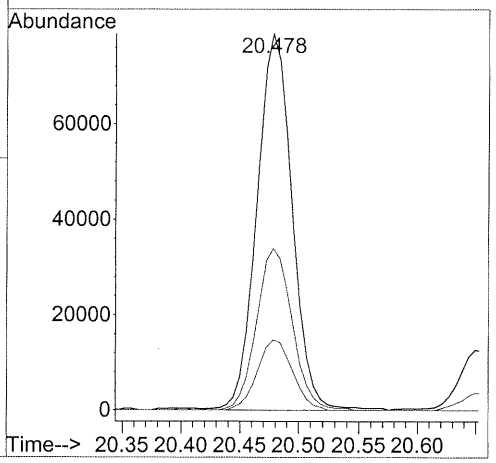


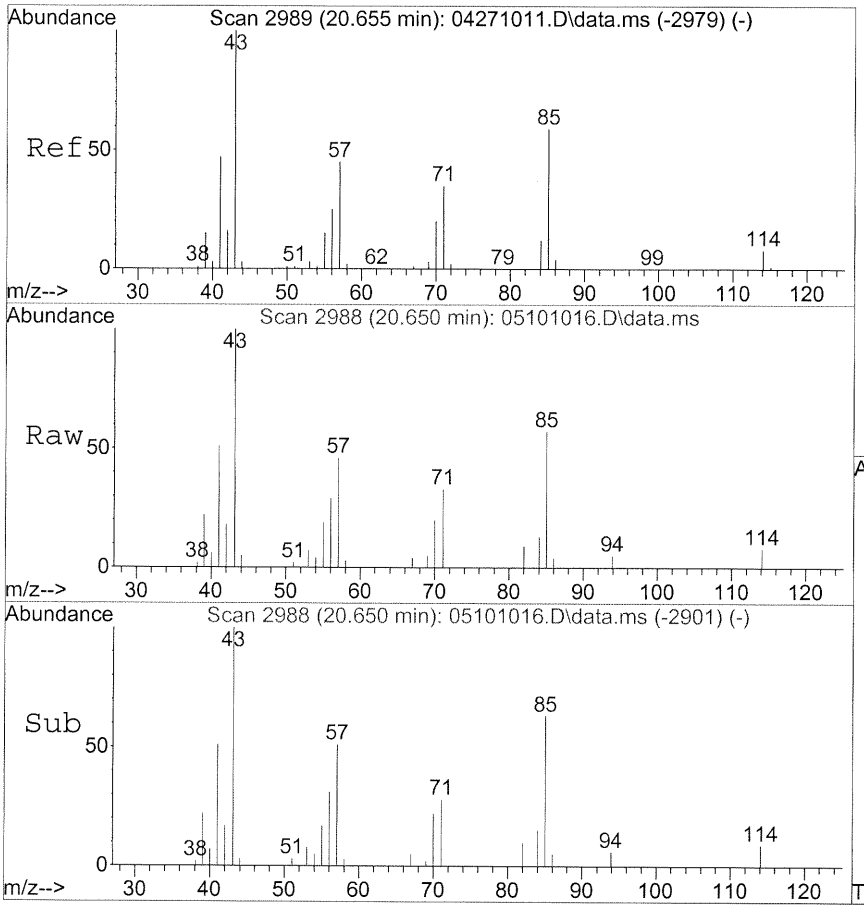


#62
n-Butyl Acetate
Concen: 3.05 ng
RT: 20.48 min Scan# 2958
Delta R.T. -0.011 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 43 Resp: 164196

Ion	Ratio	Lower	Upper
43	100		
56	43.4	19.7	59.7
73	18.5	0.0	34.2

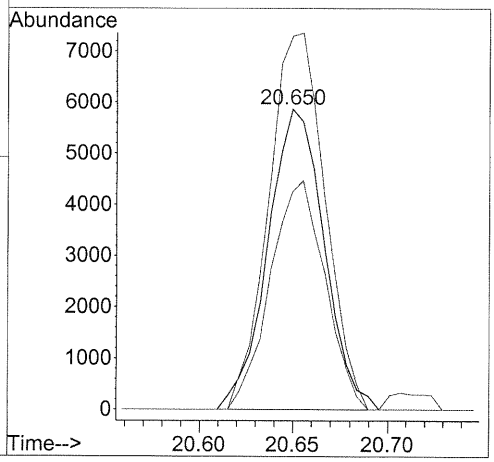


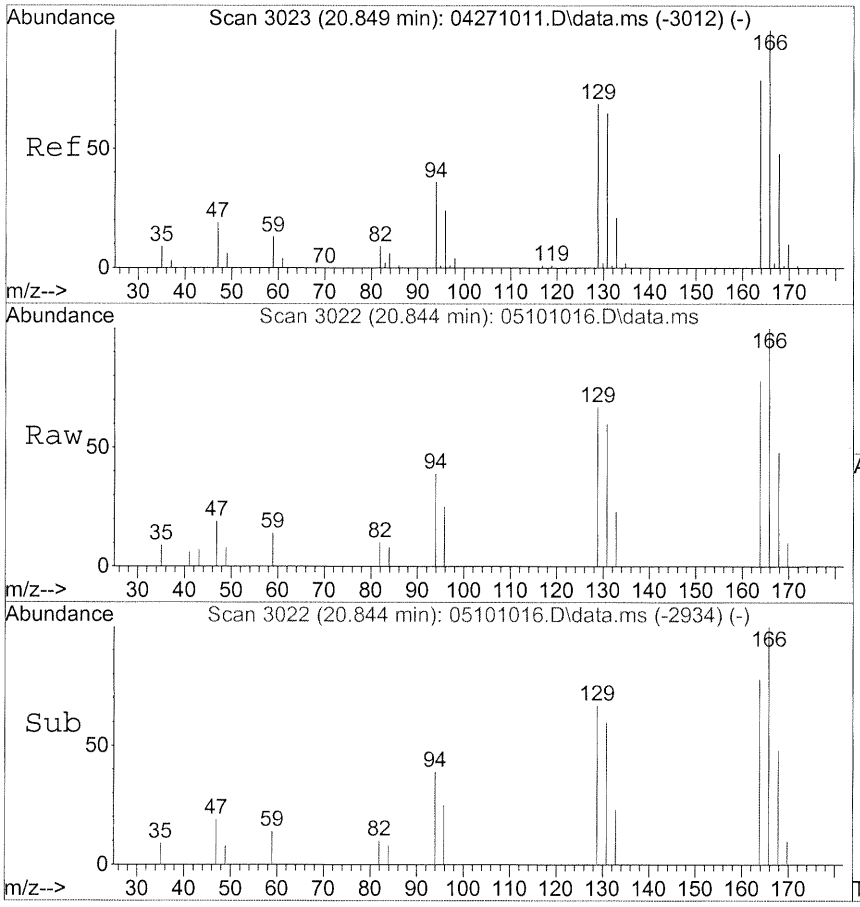


#63
n-Octane
Concen: 0.61 ng
RT: 20.65 min Scan# 2988
Delta R.T. -0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 57 Resp: 12179

Ion	Ratio	Lower	Upper
57	100		
85	126.0	81.8	122.8#
71	74.1	55.0	82.6

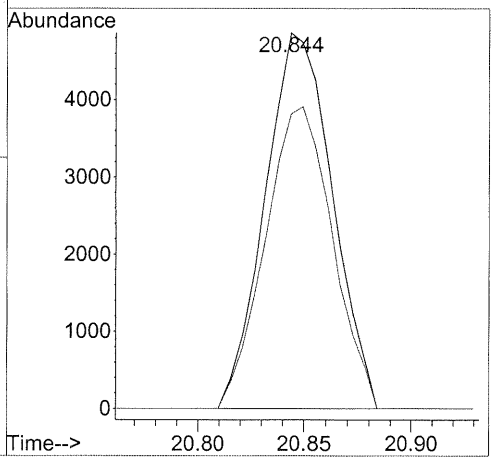


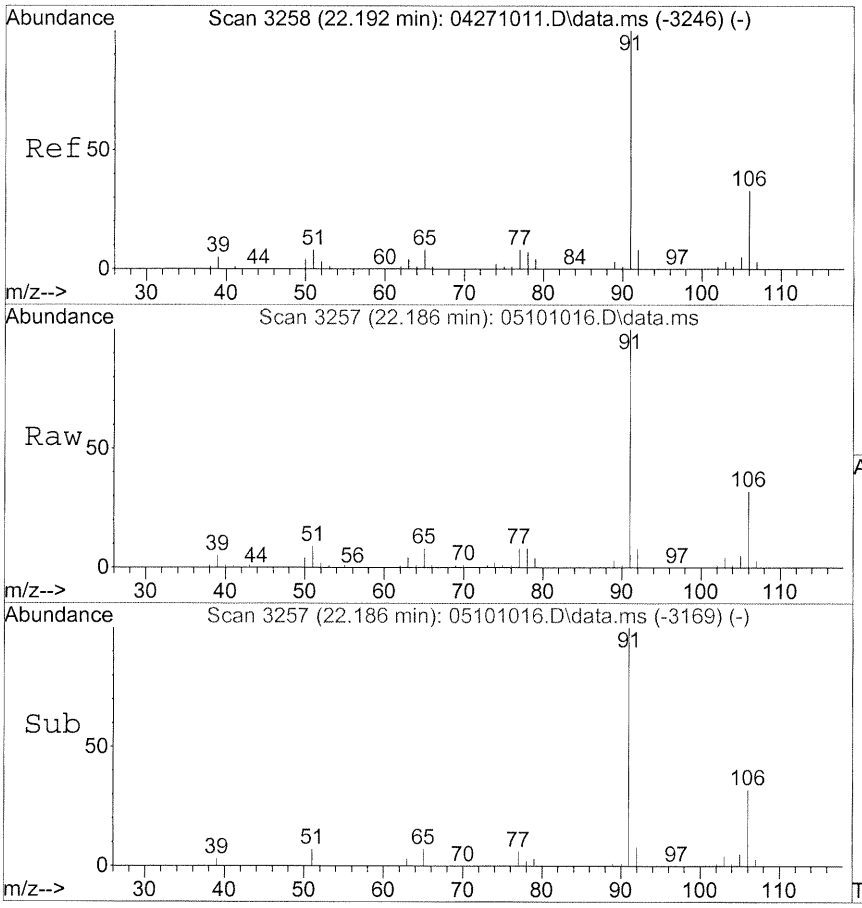


#64
Tetrachloroethene
Concen: 0.30 ng
RT: 20.84 min Scan# 3022
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:166 Resp: 10614

Ion	Ratio	Lower	Upper
166	100		
164	80.4	58.4	98.4

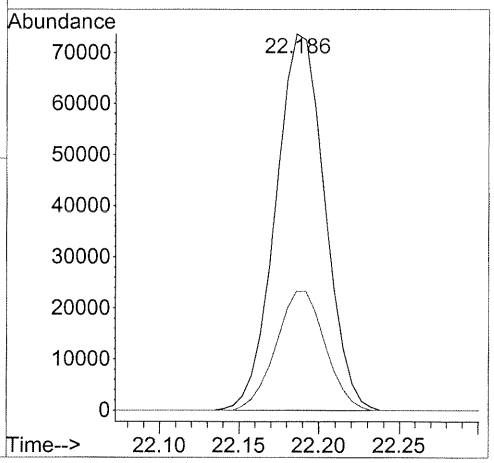


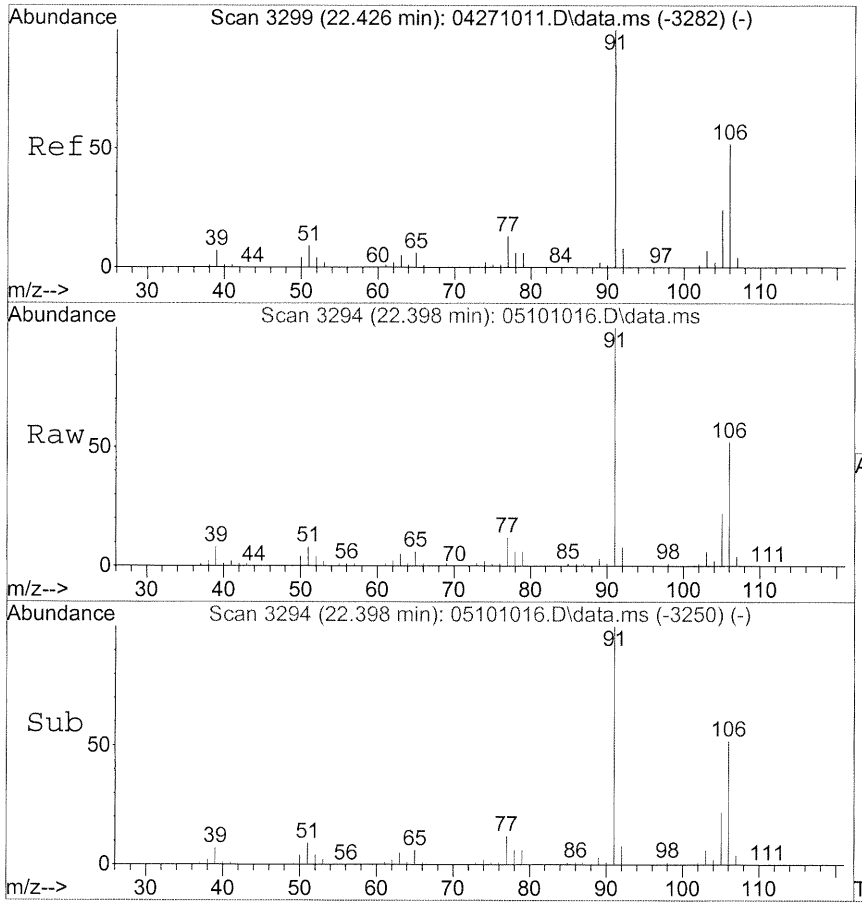


#66
Ethylbenzene
Concen: 1.28 ng
RT: 22.19 min Scan# 3257
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 91 Resp: 156291

Ion	Ratio	Lower	Upper
91	100		
106	31.5	9.8	49.8

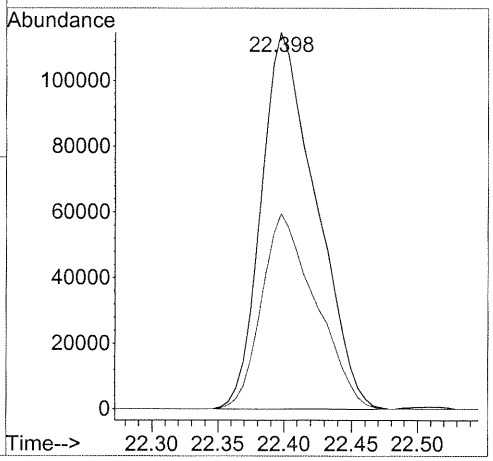


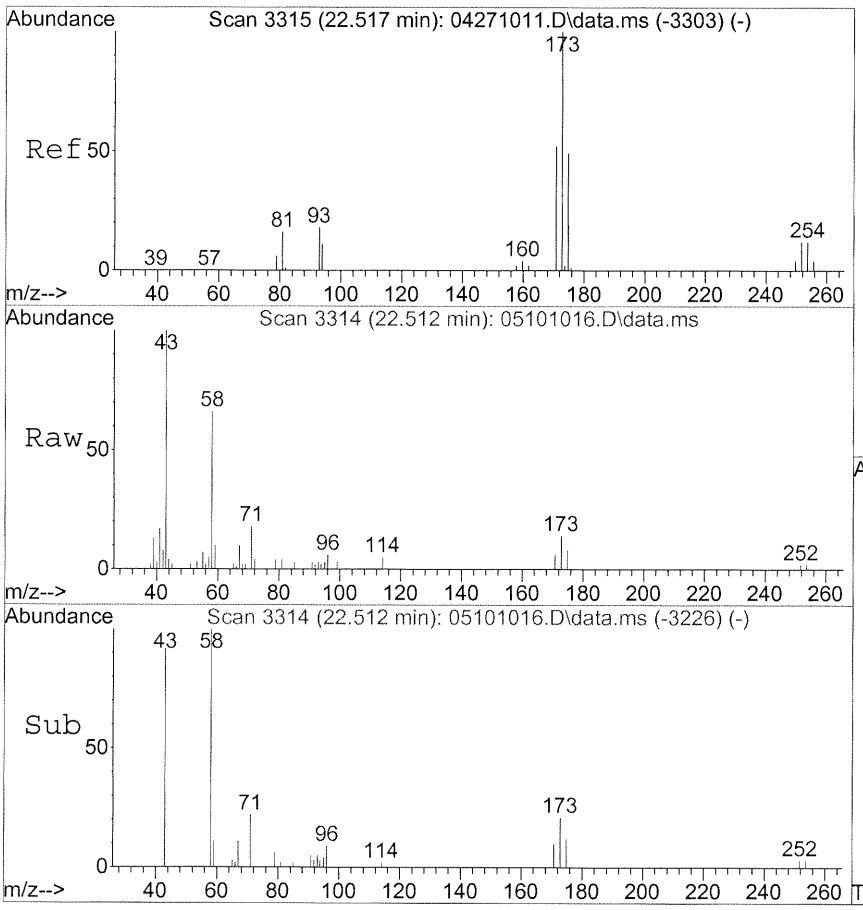


#67
m- & p-Xylenes
Concen: 3.39 ng
RT: 22.40 min Scan# 3294
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 91 Resp: 326828

Ion	Ratio	Lower	Upper
91	100		
106	51.3	26.8	66.8

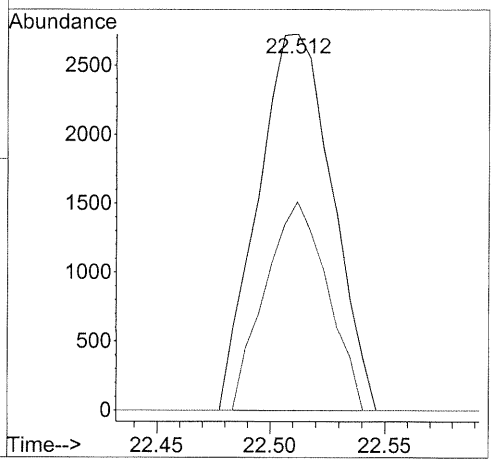


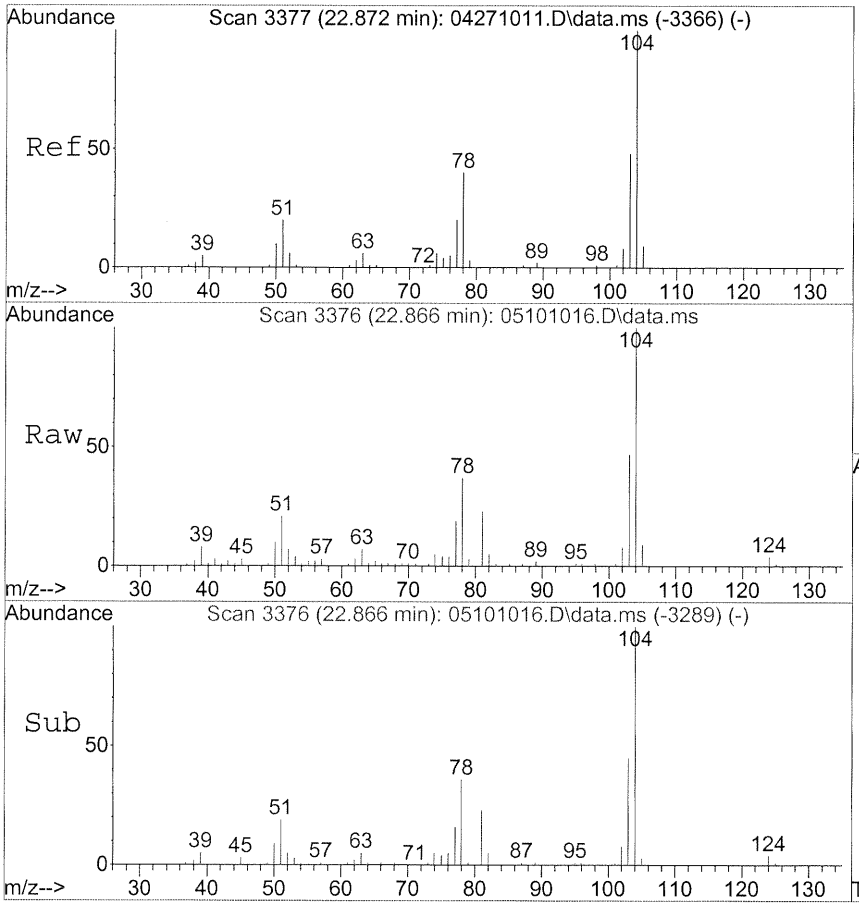


#68
Bromoform
Concen: 0.25 ng
RT: 22.51 min Scan# 3314
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:173 Resp: 6145

Ion	Ratio	Lower	Upper
173	100		
175	46.6	28.5	68.5

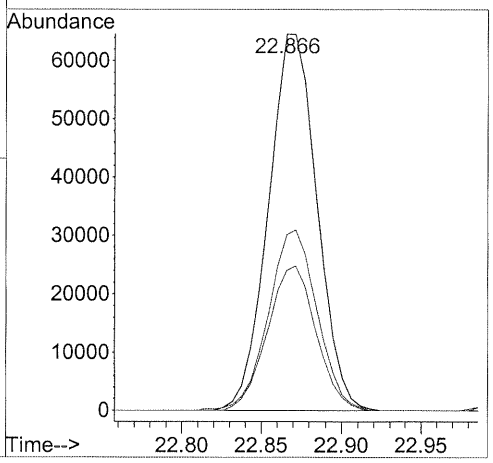


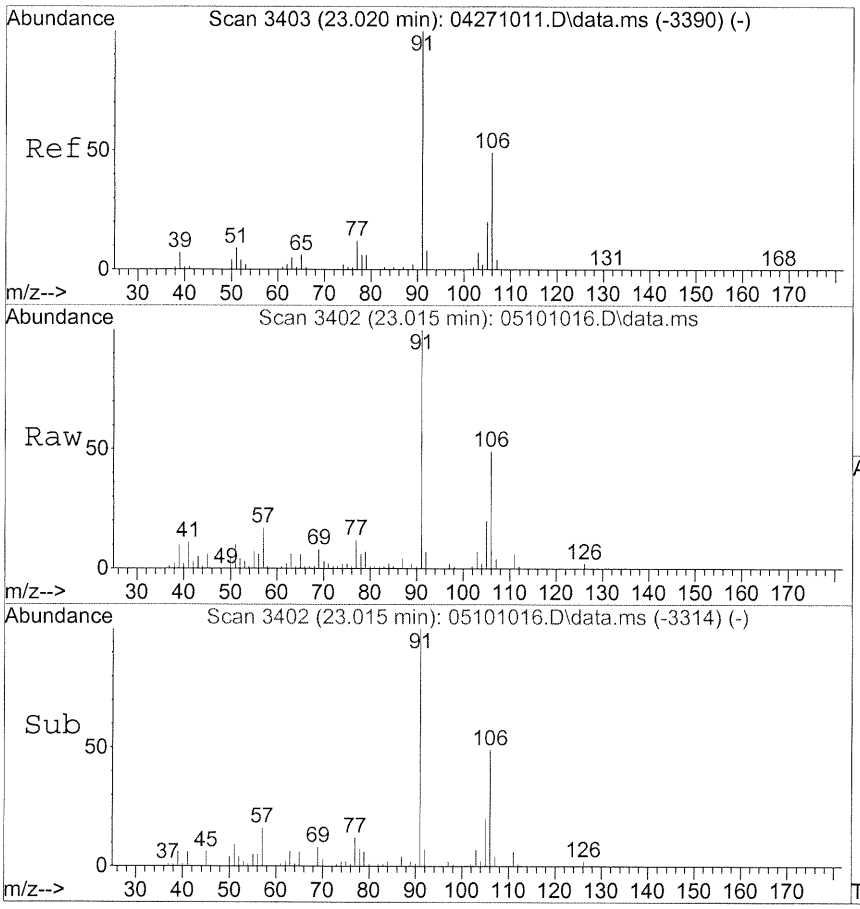


#69
Styrene
Concen: 1.80 ng
RT: 22.87 min Scan# 3376
Delta R.T. -0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:104 Resp: 136464

Ion	Ratio	Lower	Upper
104	100		
78	38.4	26.1	66.1
103	48.1	28.7	68.7

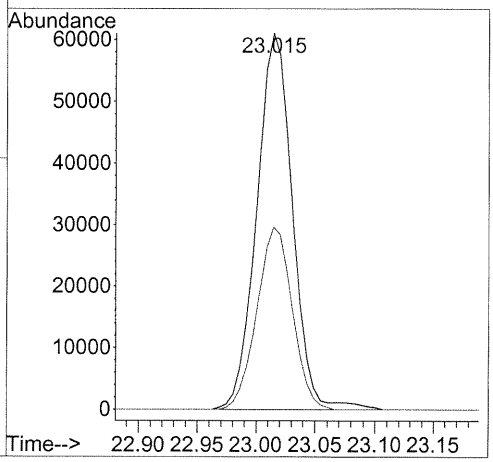


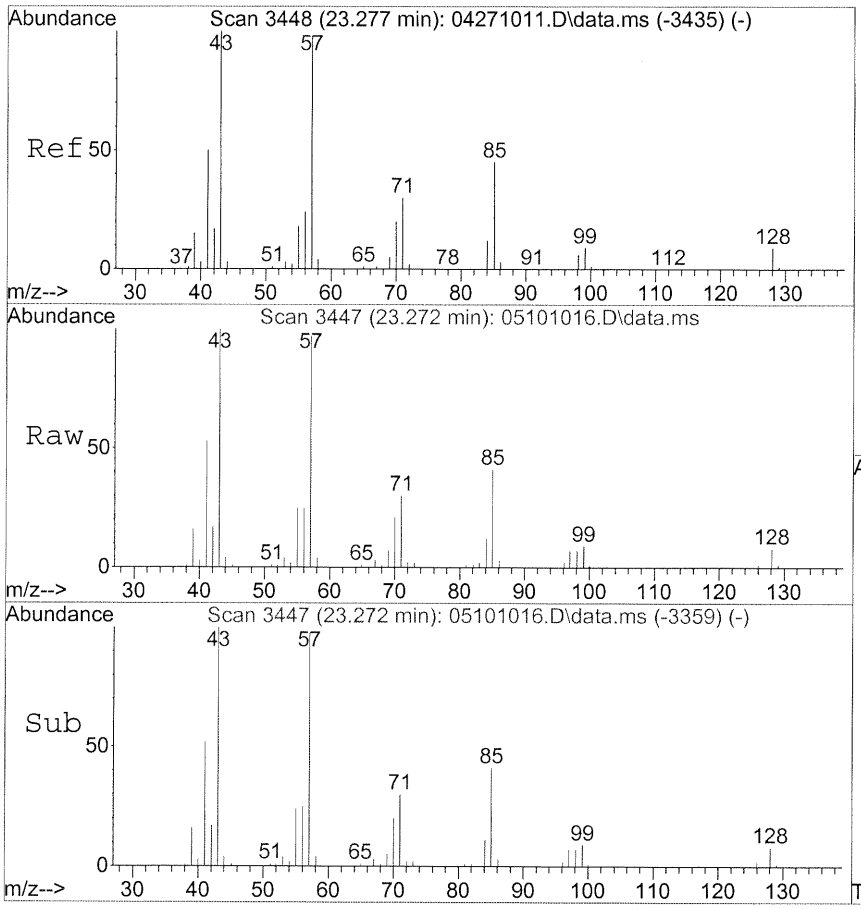


#70
o-Xylene
Concen: 1.31 ng
RT: 23.01 min Scan# 3402
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 91 Resp: 128959

Ion	Ratio	Lower	Upper
91	100		
106	48.1	24.4	64.4

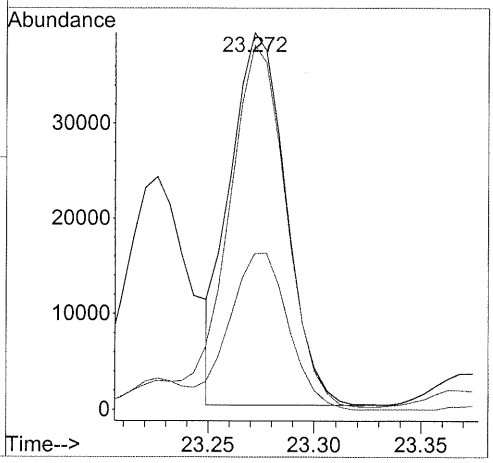


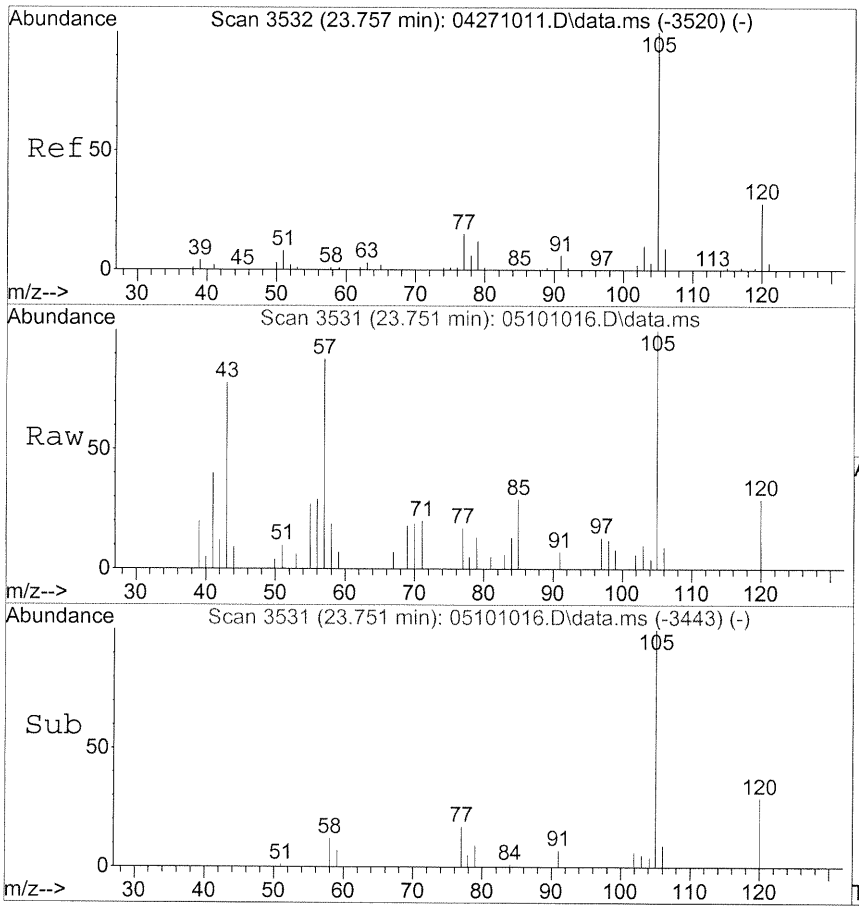


#71
n-Nonane
Concen: 1.67 ng
RT: 23.27 min Scan# 3447
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 43 Resp: 71716

Ion	Ratio	Lower	Upper
43	100		
57	106.1	65.6	105.6#
85	44.2	9.9	49.9

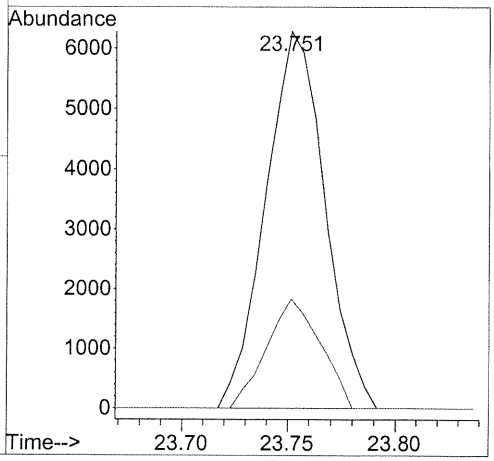


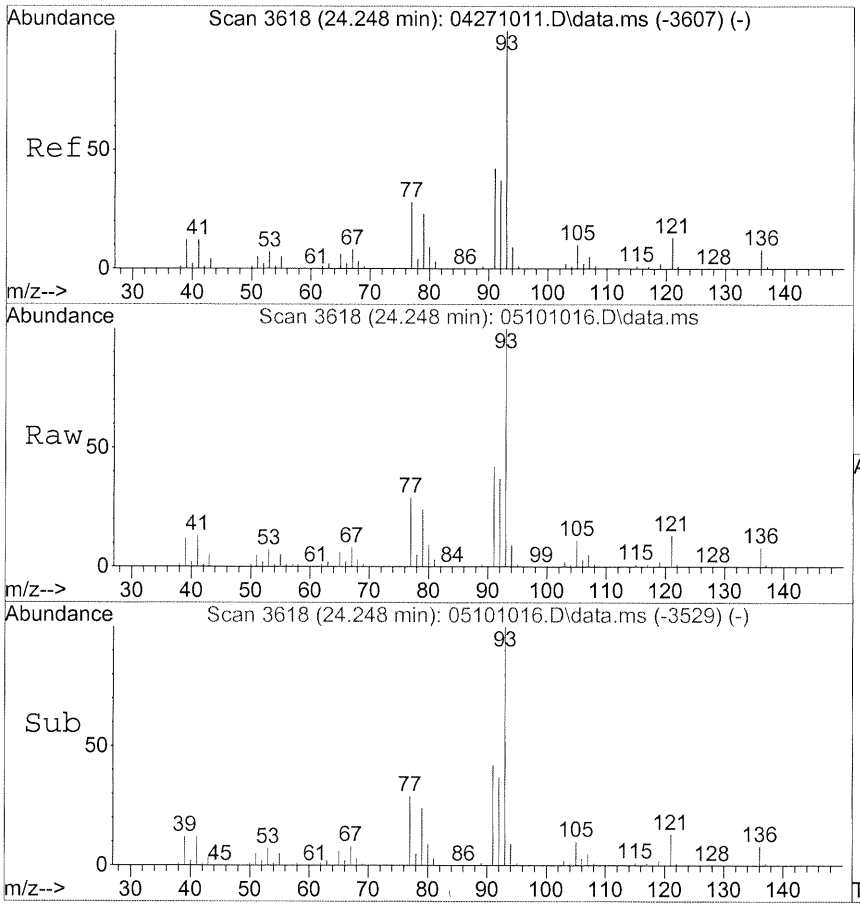


#74
Cumene
Concen: 0.09 ng
RT: 23.75 min Scan# 3531
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:105 Resp: 12131

Ion	Ratio	Lower	Upper
105	100		
120	26.4	5.2	45.2

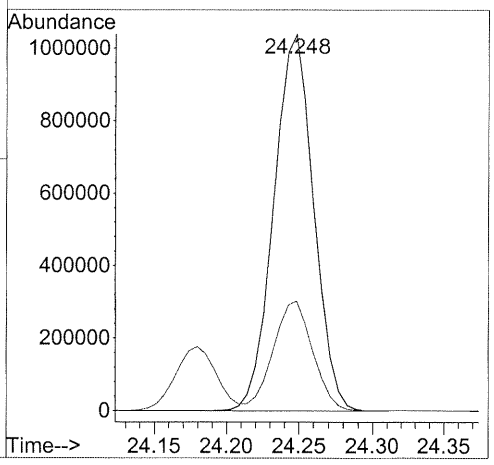


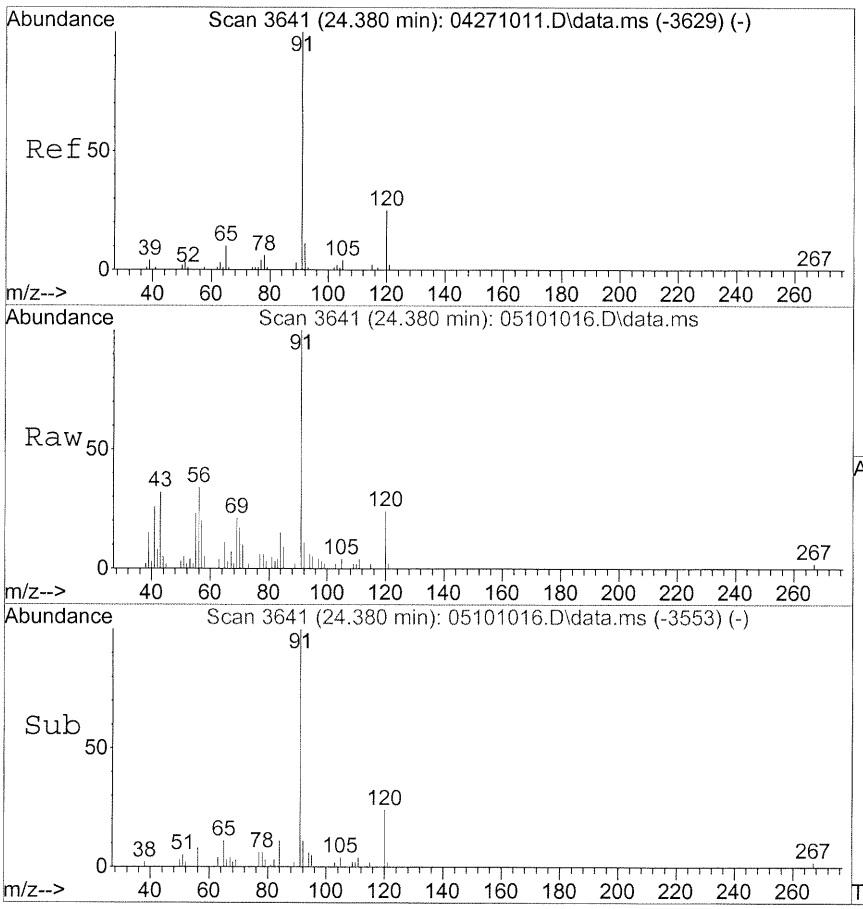


#75
alpha-Pinene
Concen: 31.71 ng
RT: 24.25 min Scan# 3618
Delta R.T. 0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 93 Resp: 1978563

Ion	Ratio	Lower	Upper
93	100		
77	28.9	12.3	52.3

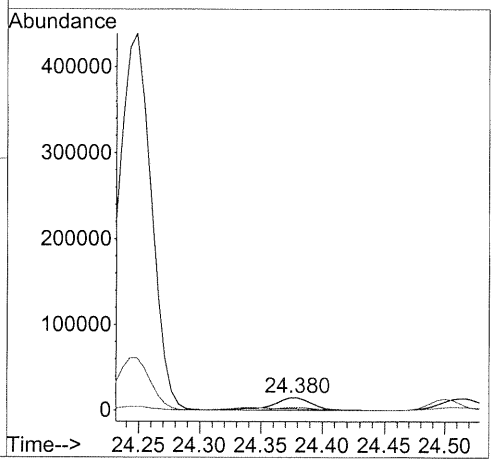


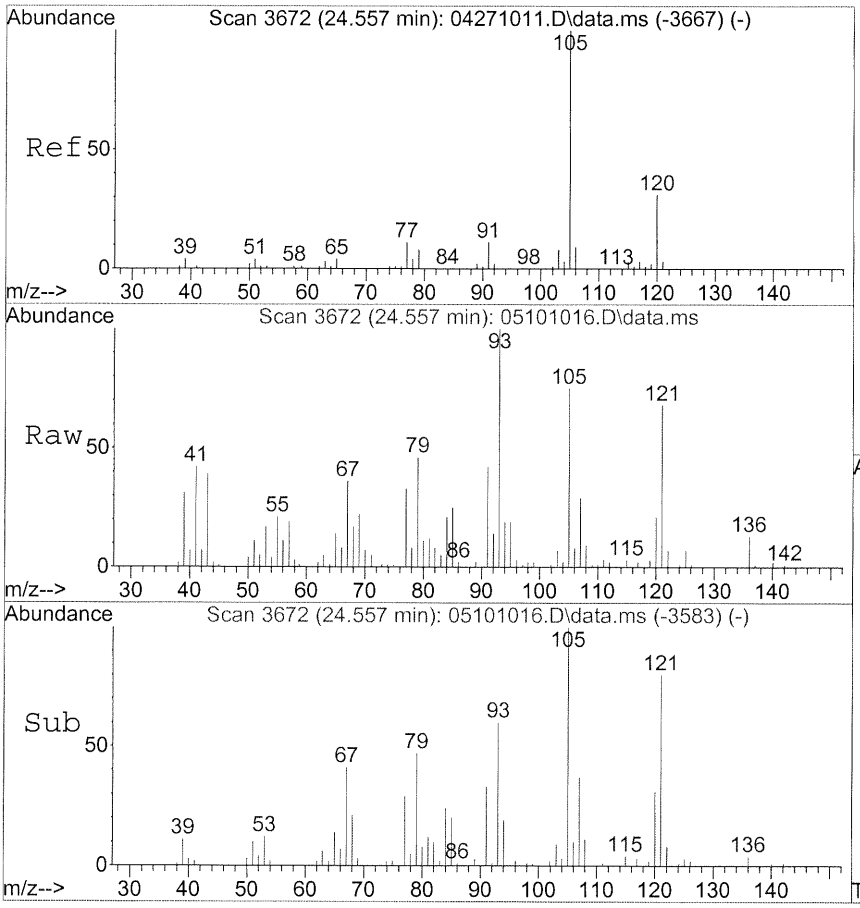


#76
n-Propylbenzene
Concen: 0.21 ng
RT: 24.38 min Scan# 3641
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion: 91 Resp: 32233

Ion	Ratio	Lower	Upper
91	100		
120	19.7	0.9	40.9
65	0.0	0.0	31.2

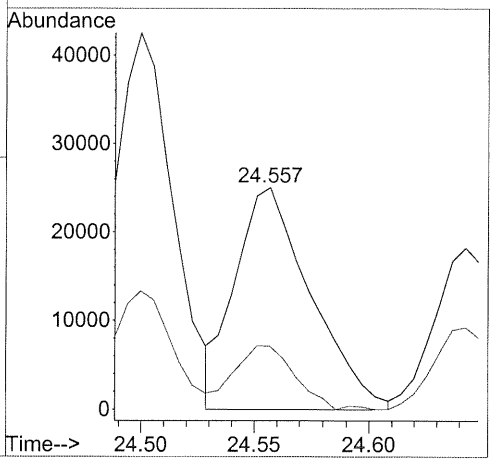


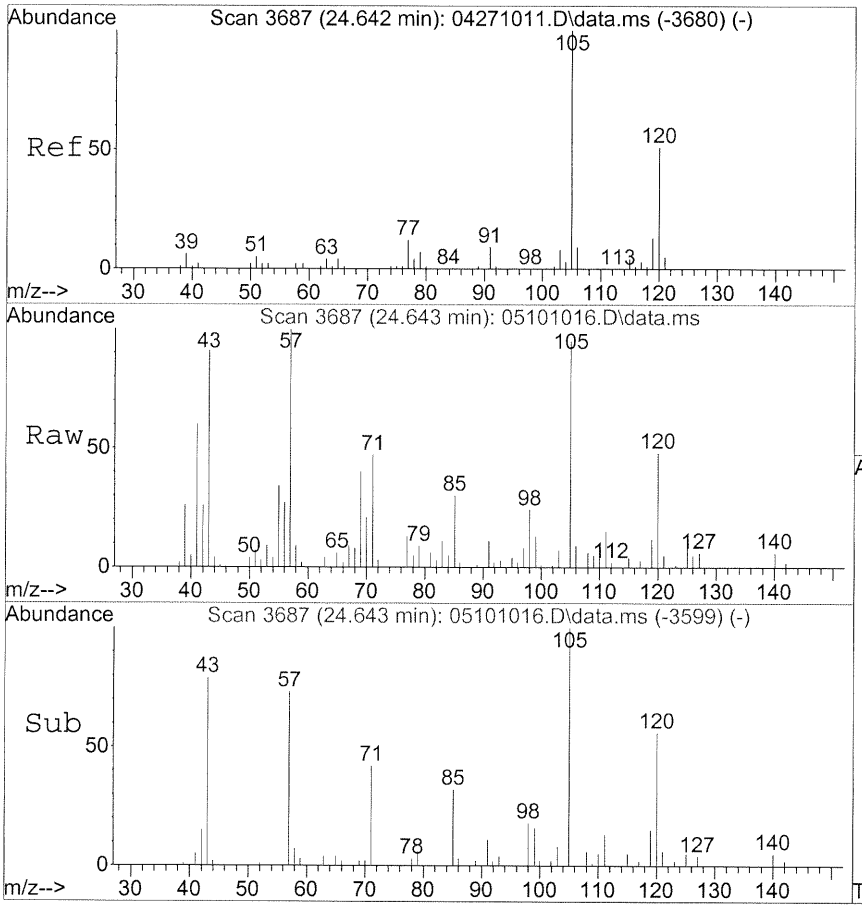


#78
4-Ethyltoluene
Concen: 0.47 ng
RT: 24.56 min Scan# 3672
Delta R.T. 0.006 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:105 Resp: 57727

Ion	Ratio	Lower	Upper
105	100		
120	23.2	8.2	48.2

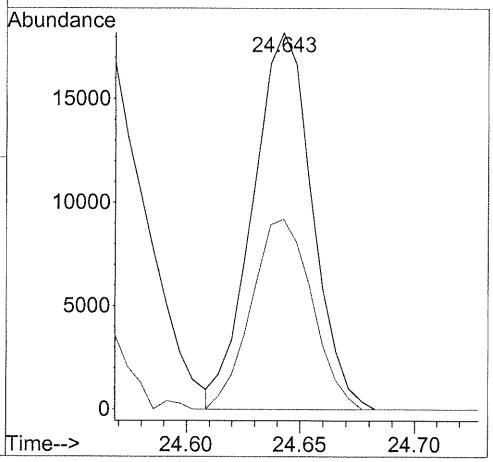


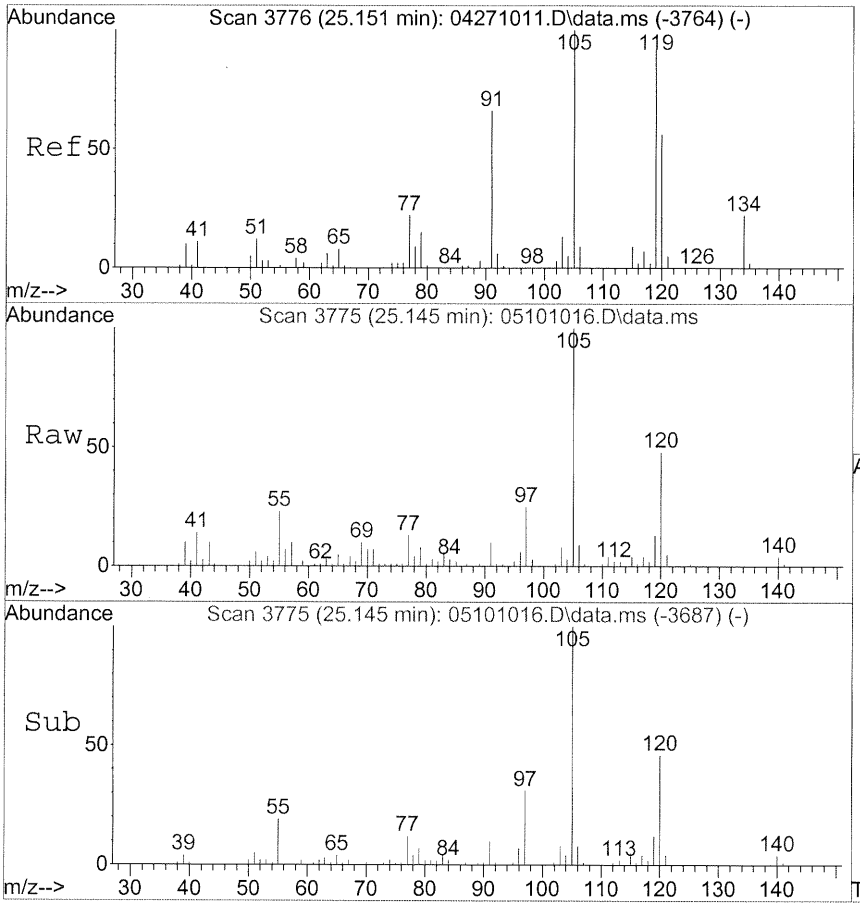


#79
1,3,5-Trimethylbenzene
Concen: 0.33 ng
RT: 24.64 min Scan# 3687
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:105 Resp: 33095

Ion	Ratio	Lower	Upper
105	100		
120	51.3	26.2	66.2

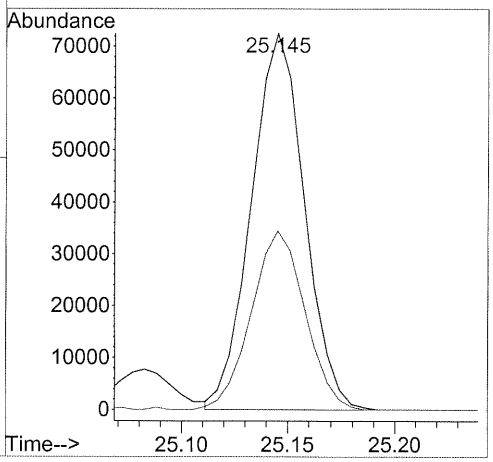


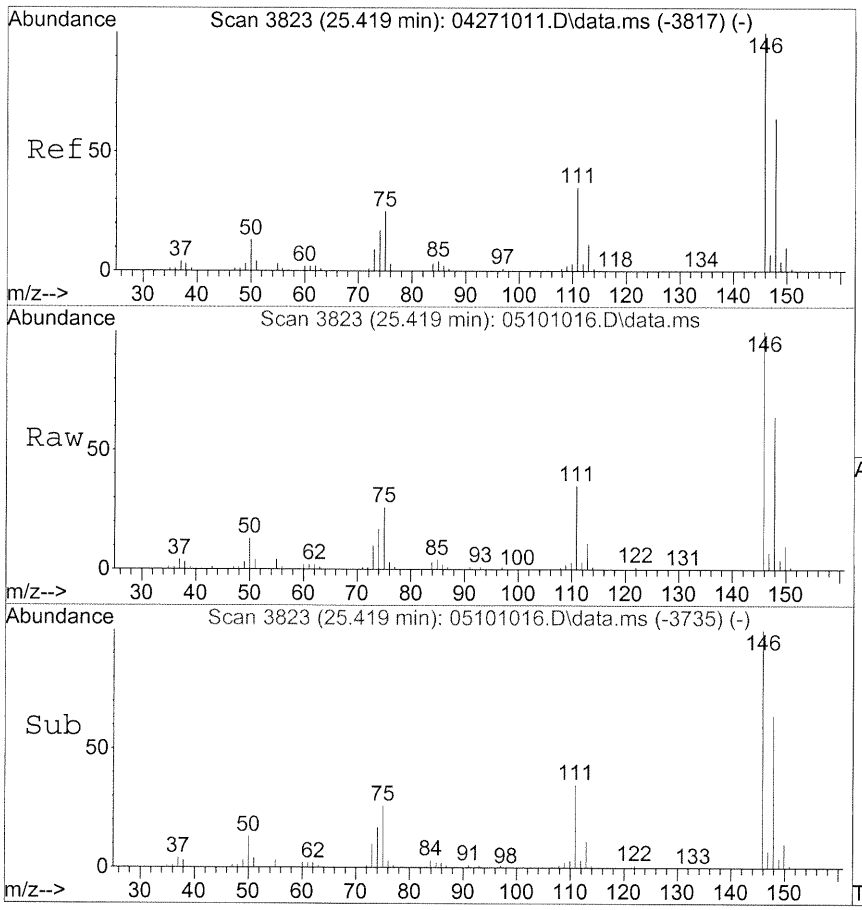


#82
1,2,4-Trimethylbenzene
Concen: 1.20 ng
RT: 25.15 min Scan# 3775
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:105 Resp: 125764

Ion	Ratio	Lower	Upper
105	100		
120	47.8	30.1	70.1

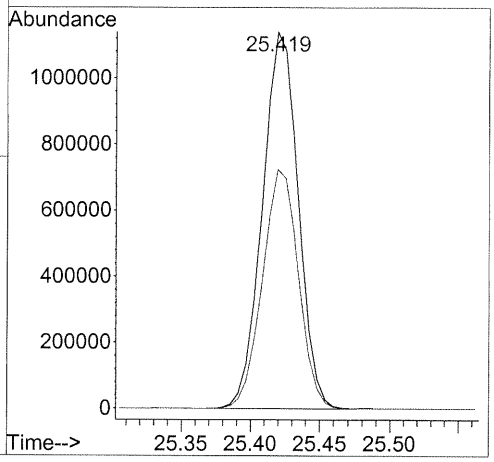


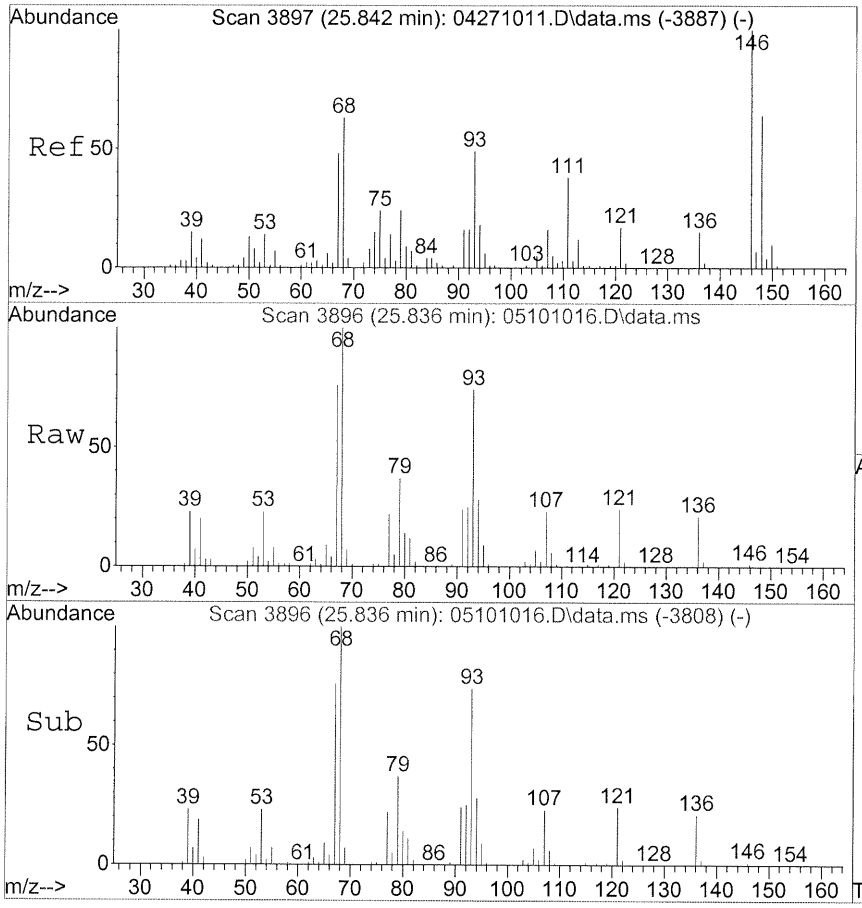


#86
1,4-Dichlorobenzene
Concen: 30.98 ng
RT: 25.42 min Scan# 3823
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:146 Resp: 2050965

Ion	Ratio	Lower	Upper
146	100		
148	63.8	43.8	83.8

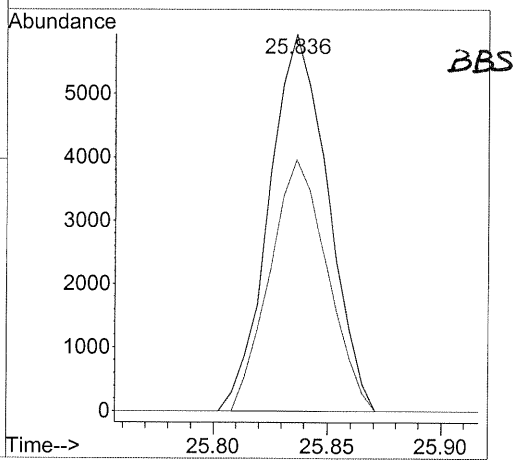


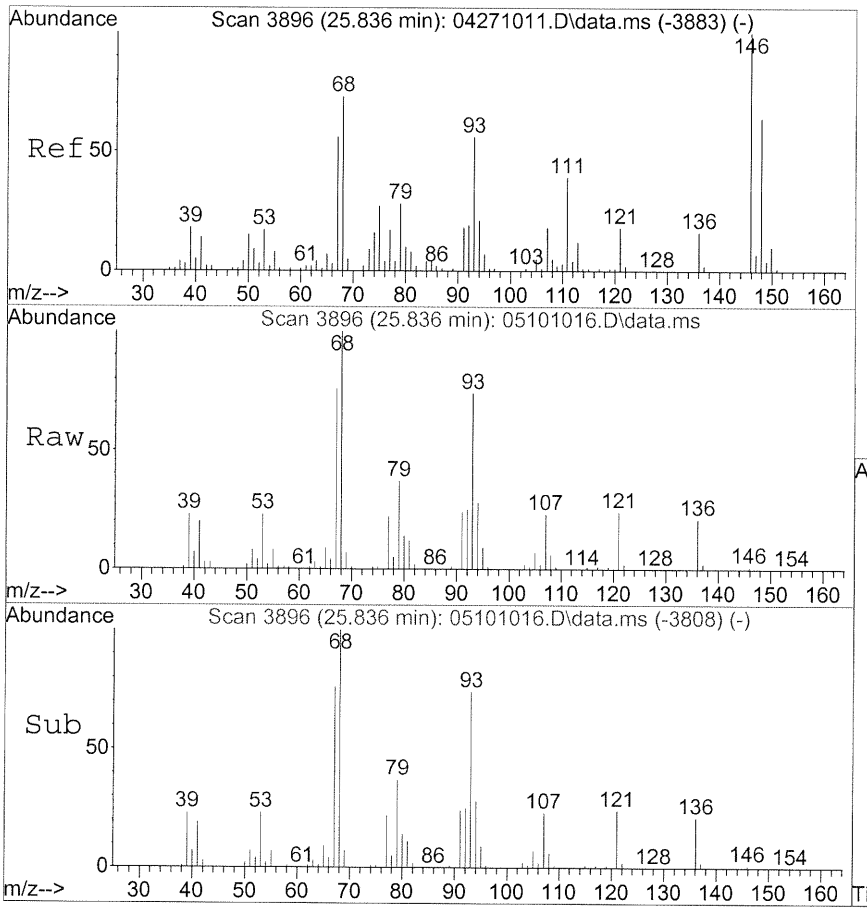


#90
1,2-Dichlorobenzene
Concen: 0.17 ng
RT: 25.84 min Scan# 3896
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:146 Resp: 10567

Ion	Ratio	Lower	Upper
146	100		
148	65.1	43.6	83.6

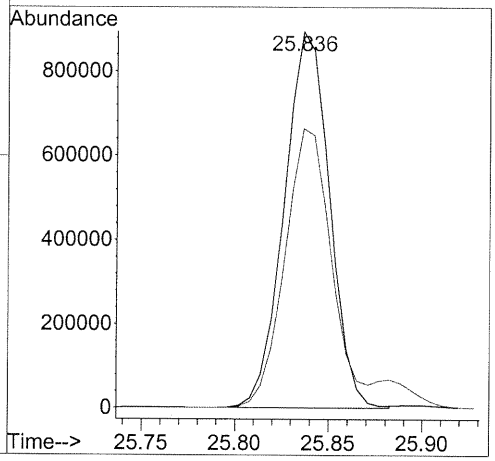




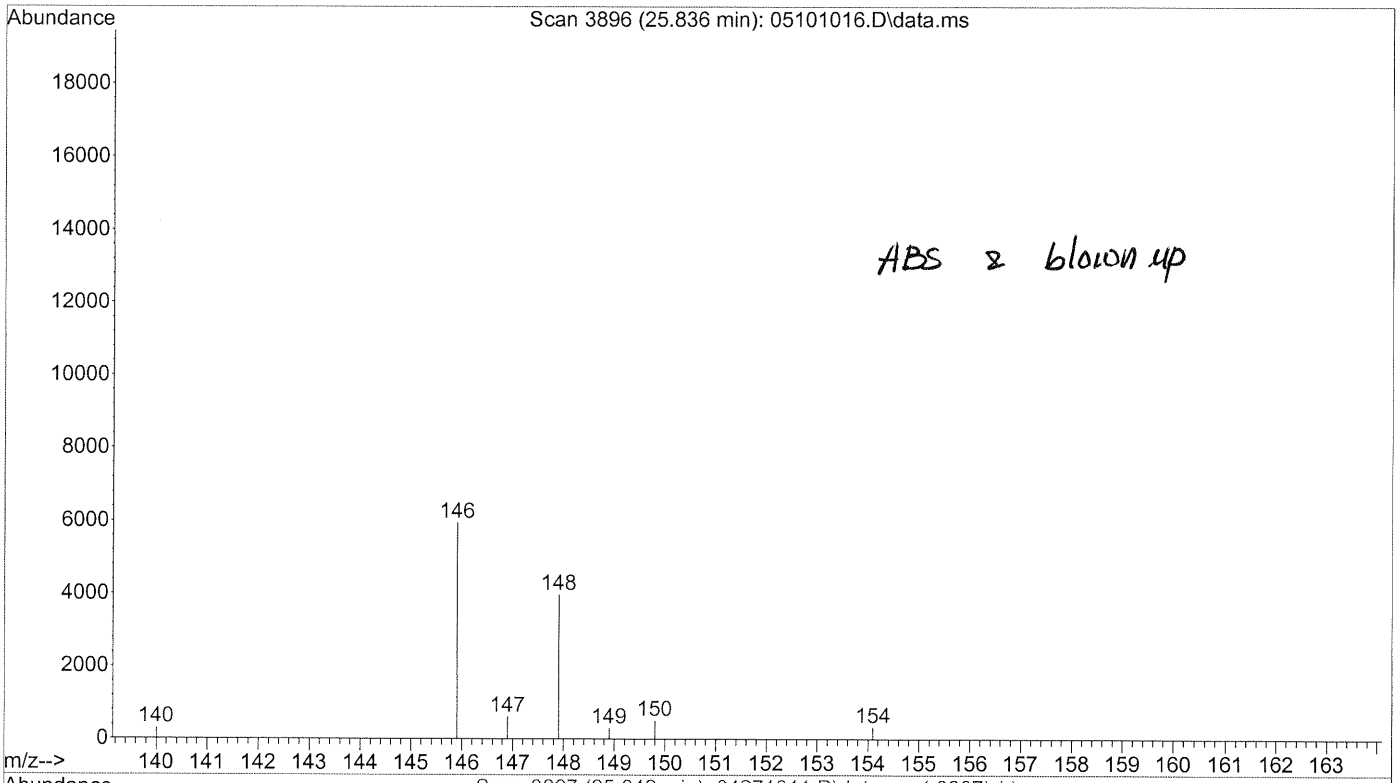
#91
d-Limonene
Concen: 41.25 ng
RT: 25.84 min Scan# 3896
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

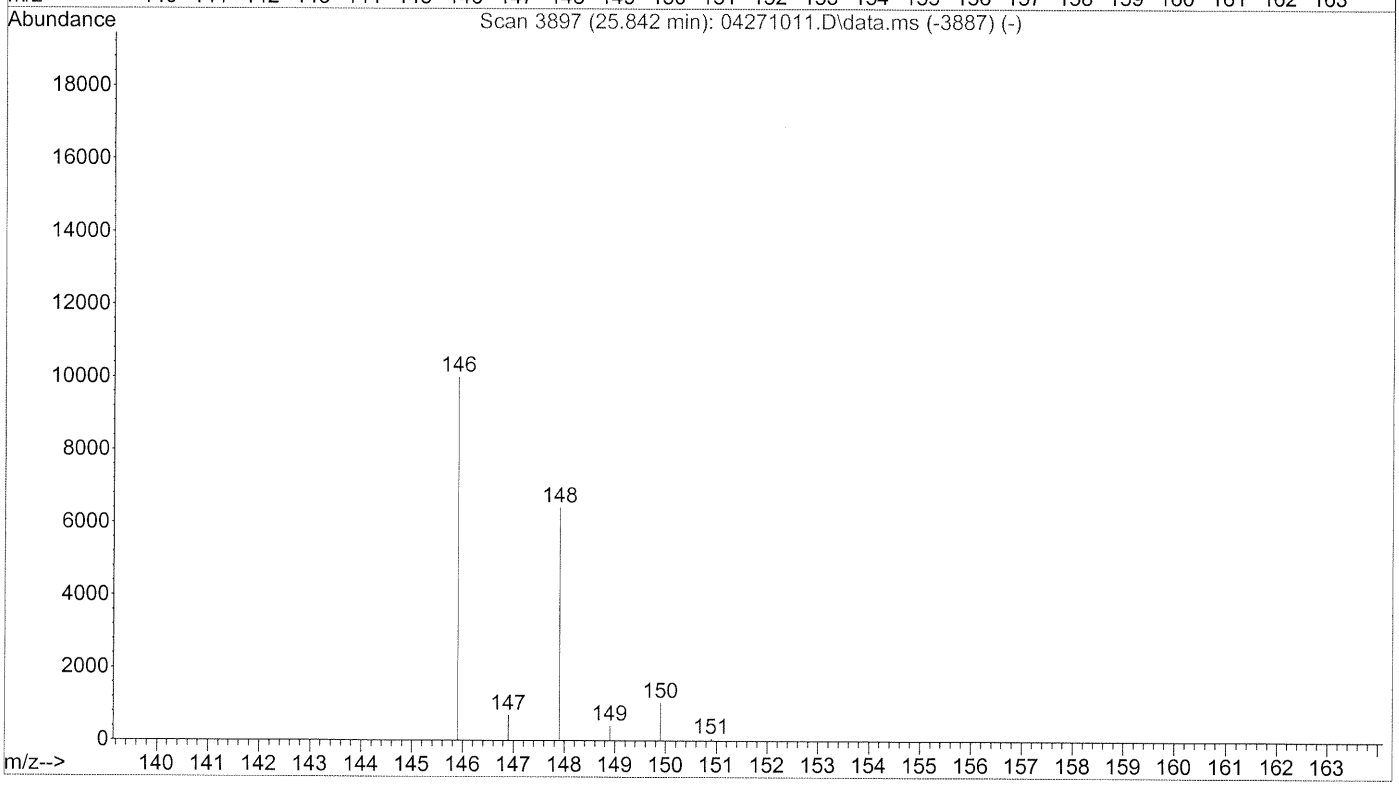
Tgt Ion: 68 Resp: 1499996

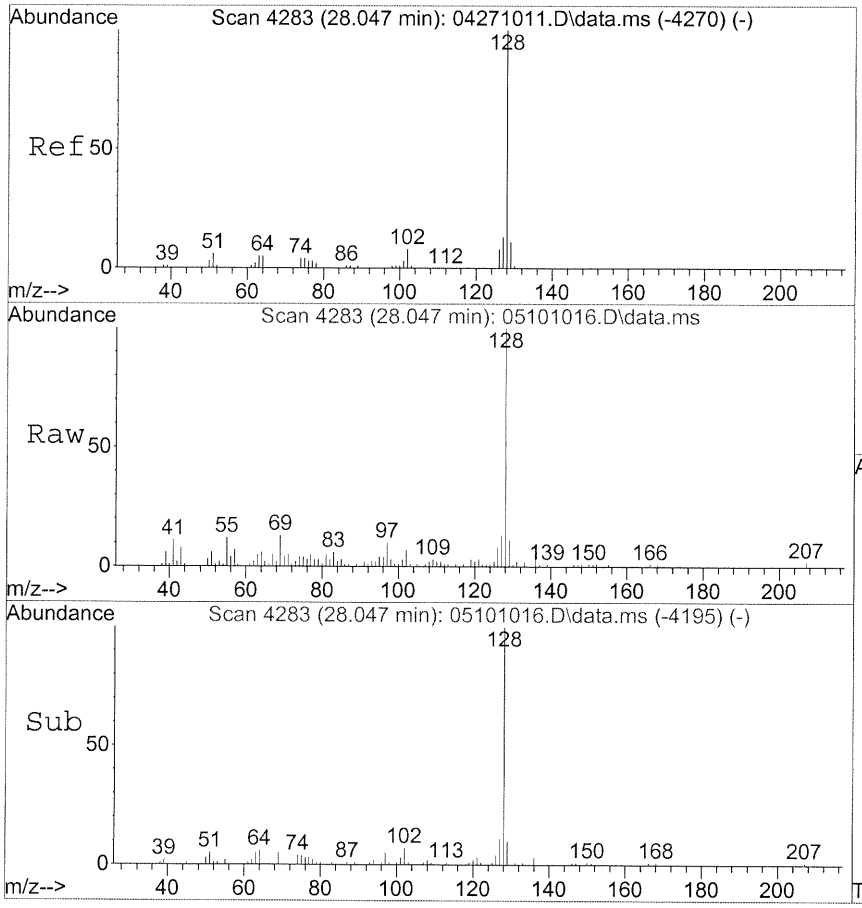
Ion	Ratio	Lower	Upper
68	100		
93	83.2	42.0	82.0#



File :J:\MS09\Data\2010_05\10\05101016.D
Operator : WA
Acquired : 10 May 2010 22:54 using AcqMethod TO15LOW.M
Instrument : MS09
Sample Name: P1001603-004 (1000mL)
Misc Info :
Vial Number: 8



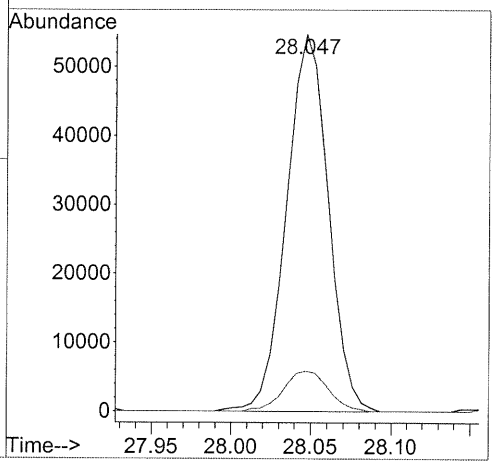




#95
Naphthalene
Concen: 0.74 ng
RT: 28.05 min Scan# 4283
Delta R.T. 0.000 min
Lab File: 05101016.D
Acq: 10 May 2010 22:54

Tgt Ion:128 Resp: 98181

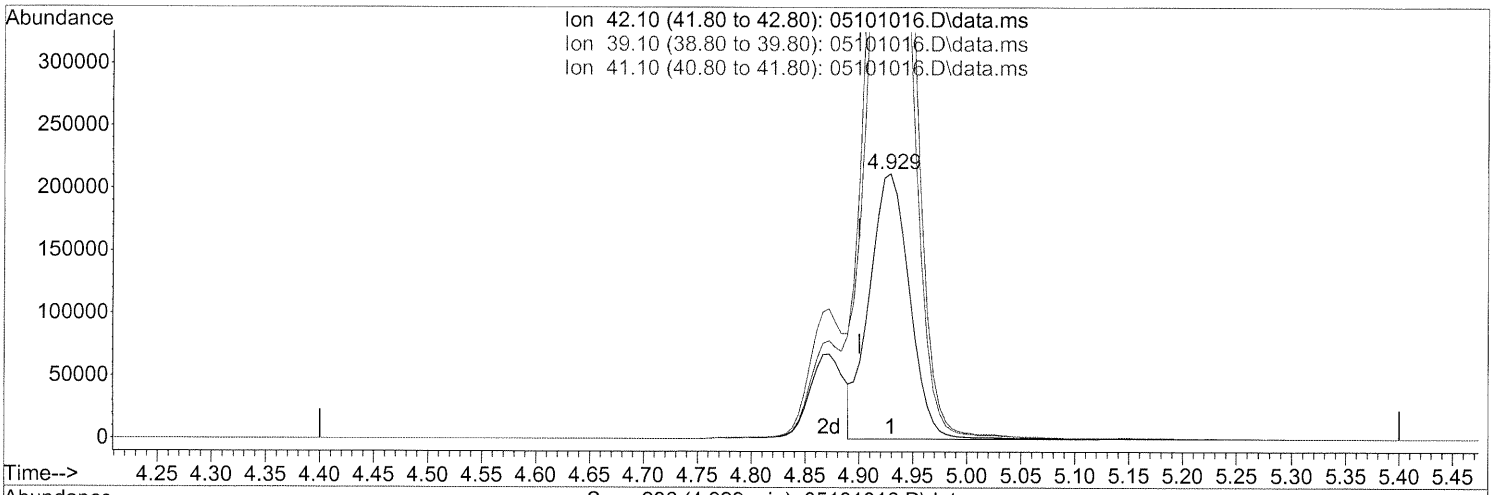
Ion	Ratio	Lower	Upper
128	100		
129	11.5	0.0	31.1

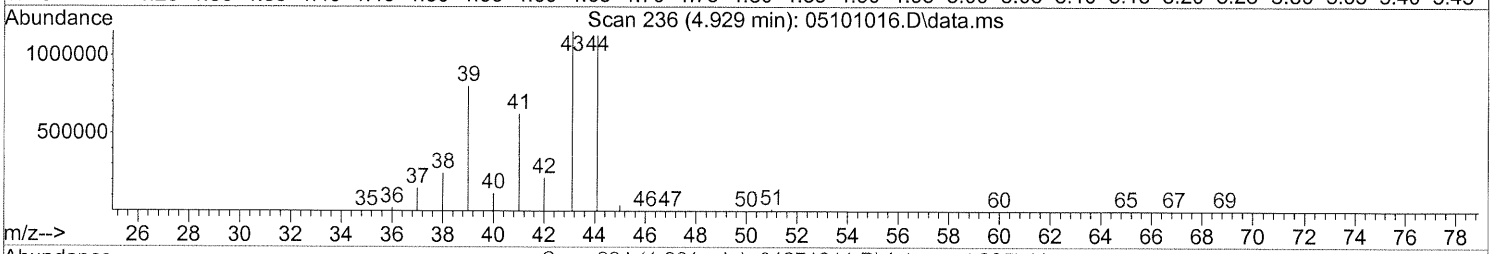


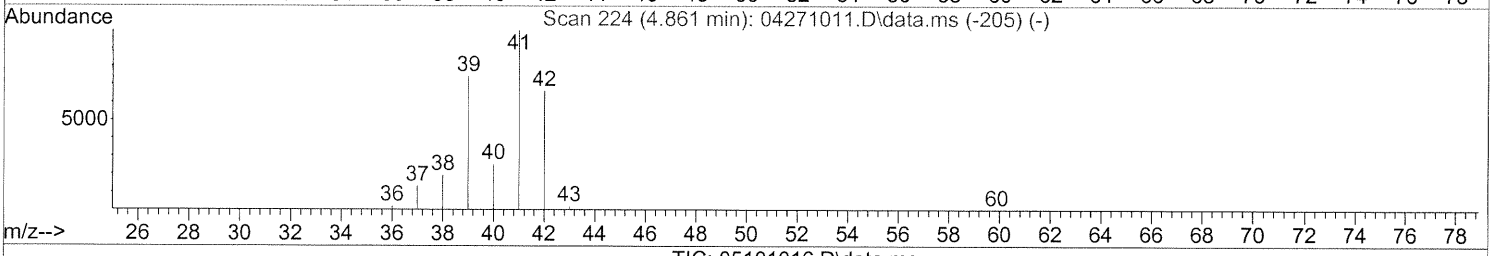
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101016.D\data.ms

(2) Propene (T)

4.929min (+0.029) 24.79ng

response 549366

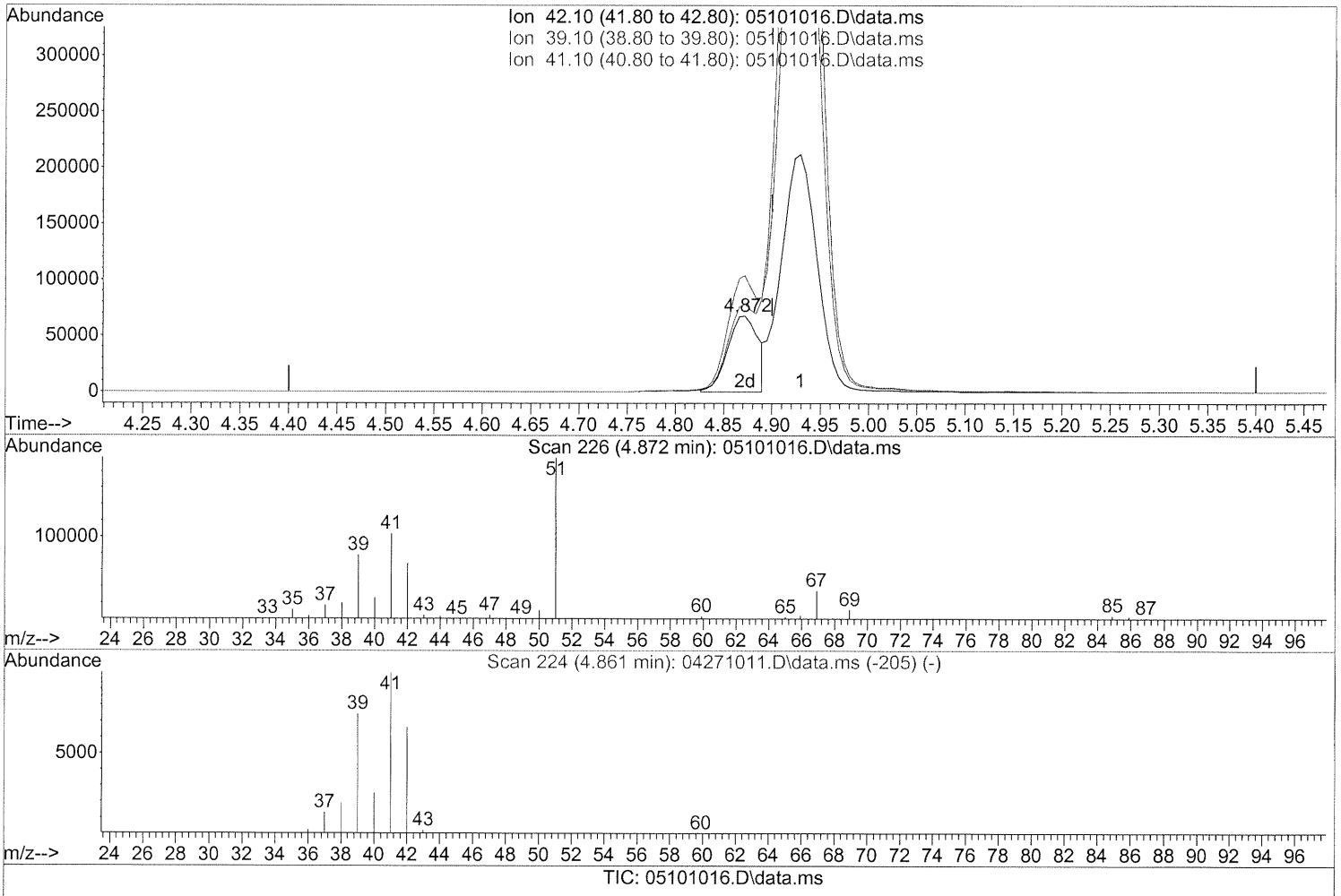
MP

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	377.74#
41.10	153.90	289.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101016.D\data.ms

(2) Propene (T)

4.872min (-0.028) 6.67ng m

response 147888

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	1403.22#
41.10	153.90	1076.33#
0.00	0.00	0.00

MP → IC

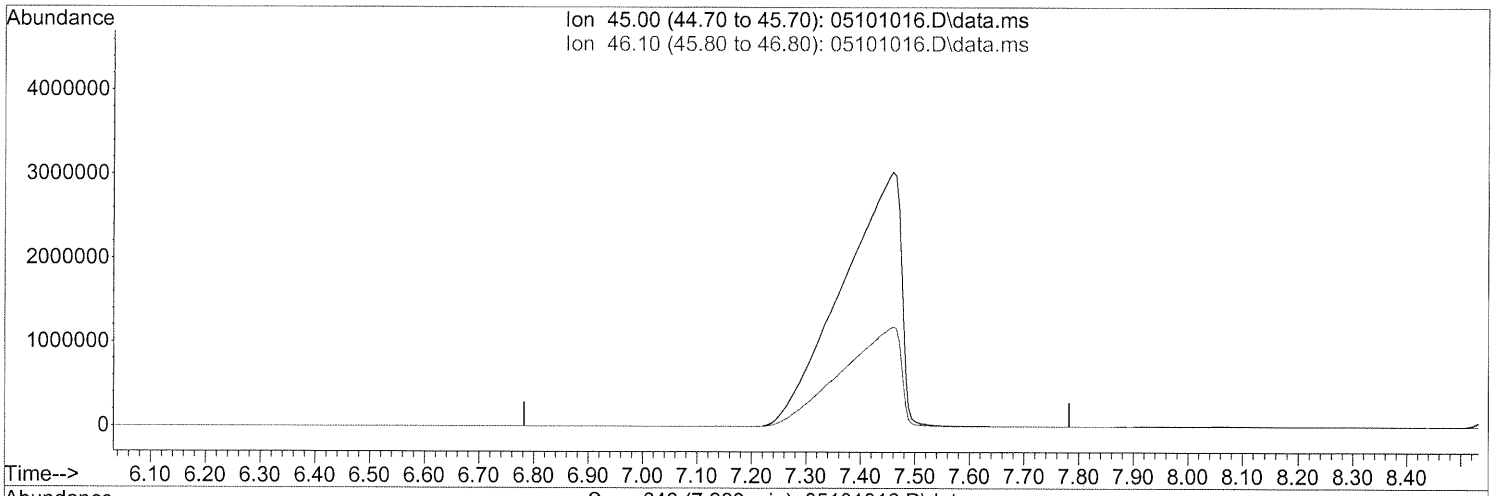
5/17/10

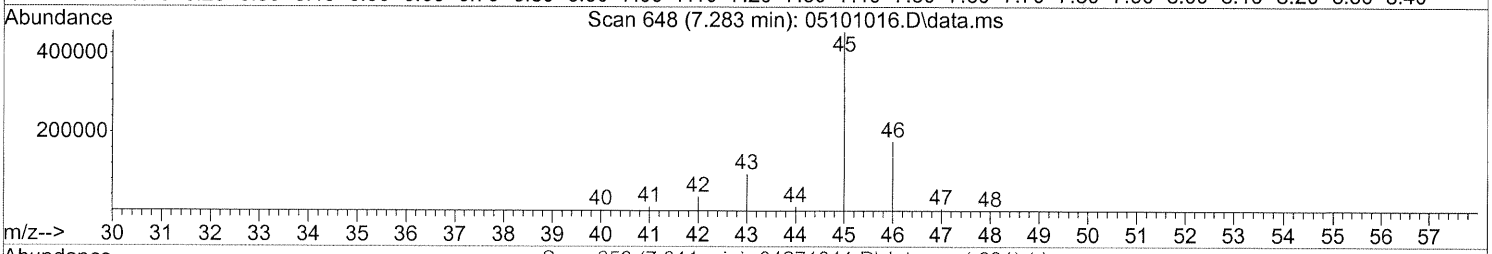
5/19/10

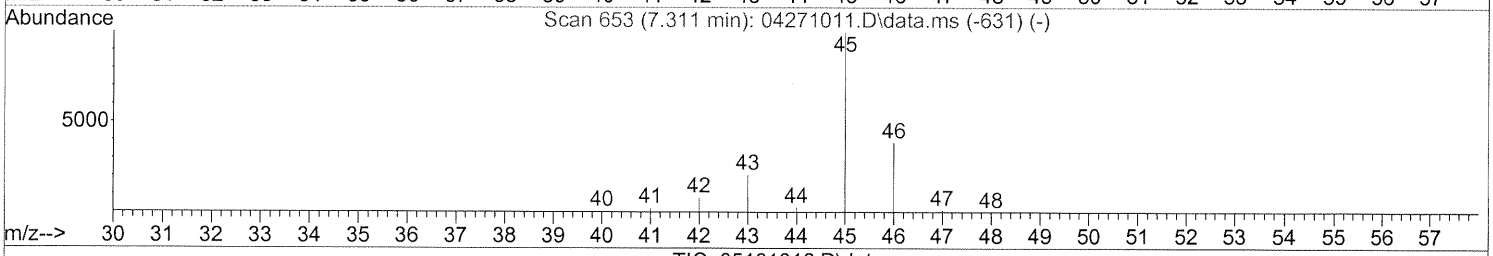
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101016.D\data.ms

(10) Ethanol (T)

7.283min (-7.283) 0.00ng

response 0

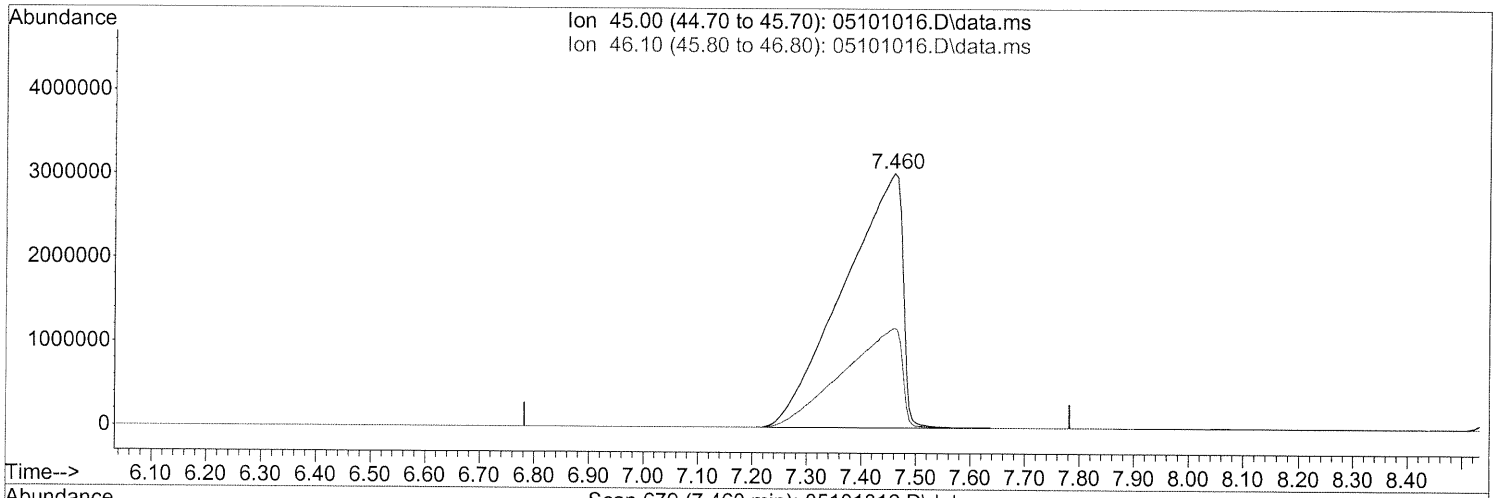
MP

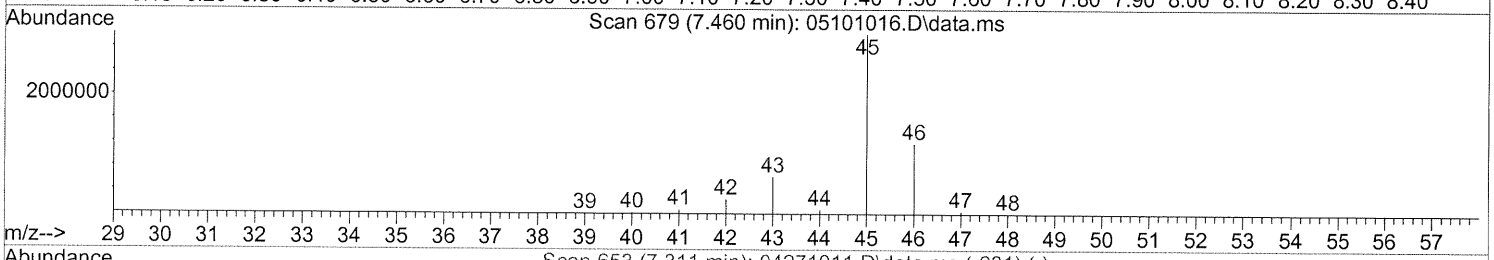
Ion	Exp%	Act%
45.00	100	0.00
46.10	38.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

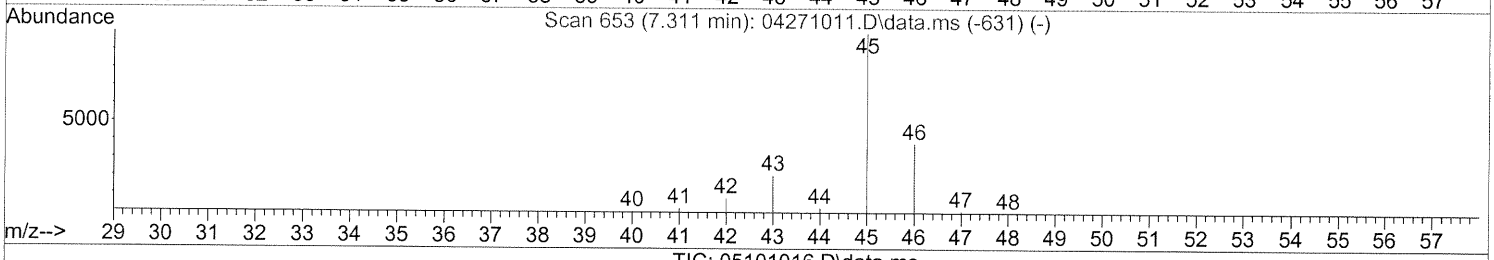
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101016.D\data.ms

(10) Ethanol (T)

7.460min (+0.177) 1681.75ng m

response 22702171

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

MP → IC

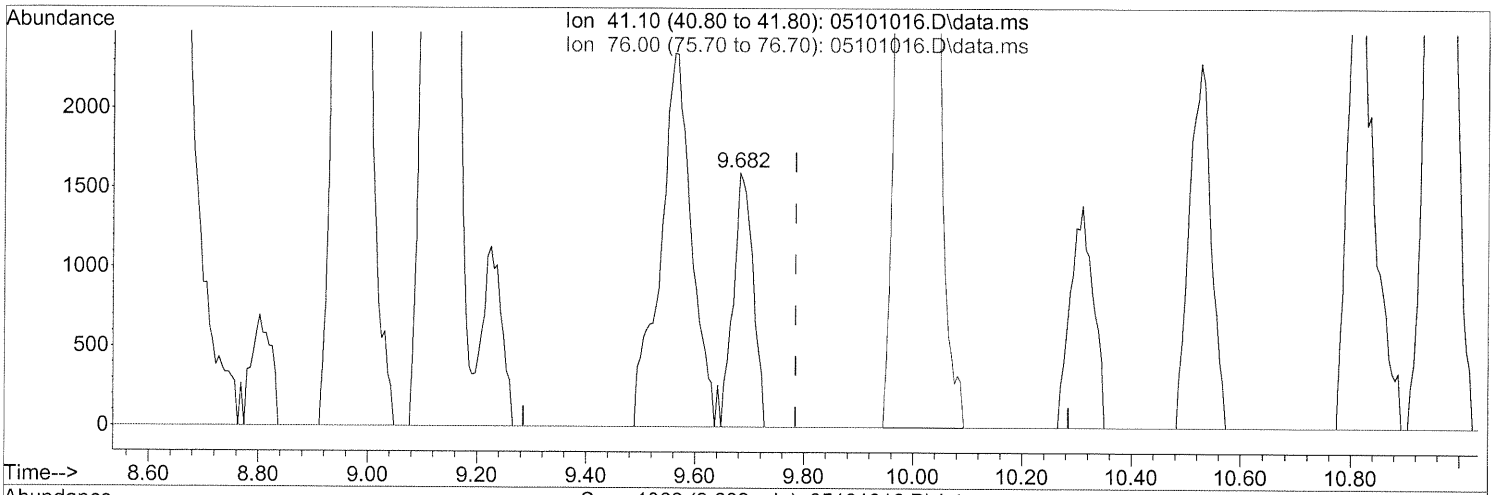
5/17/10

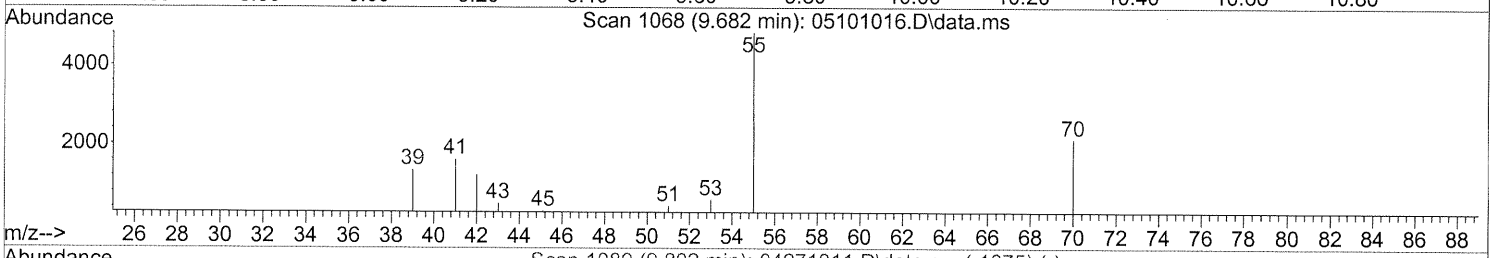
5/19/10

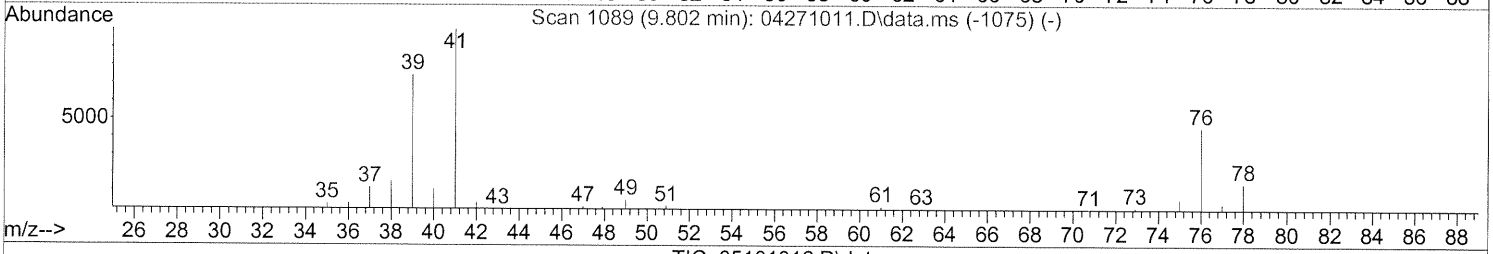
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101016.D\data.ms

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

9.682min (-0.103) 0.16ng

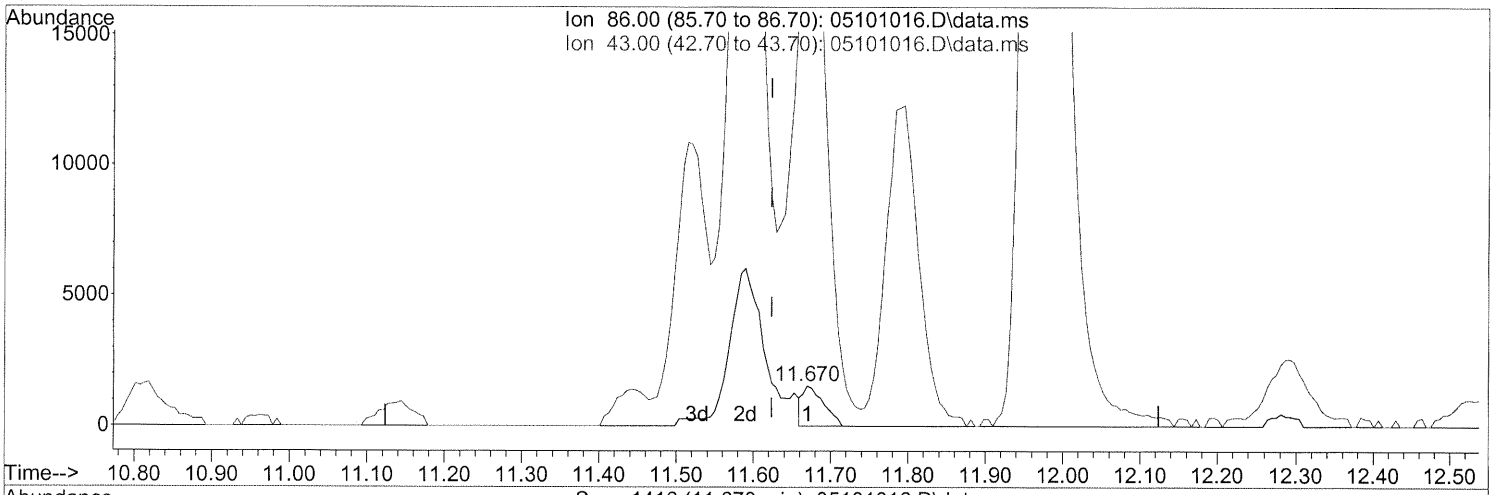
response 4096

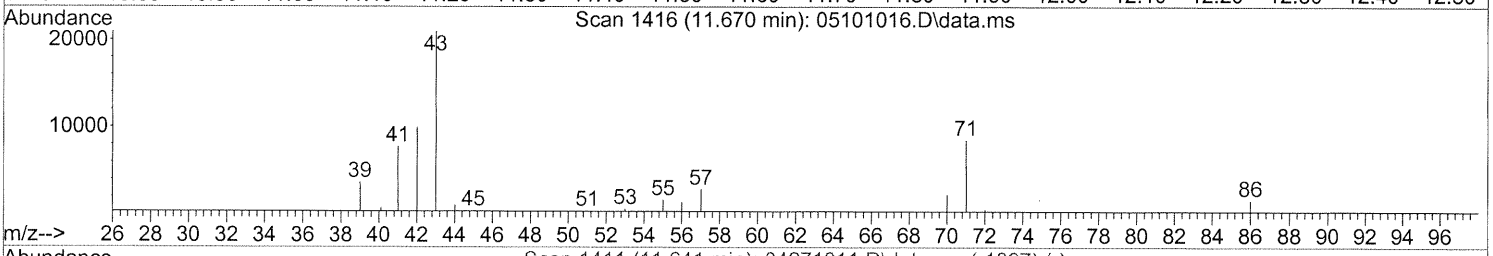
Ion	Exp%	Act%
41.10	100	100
76.00	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

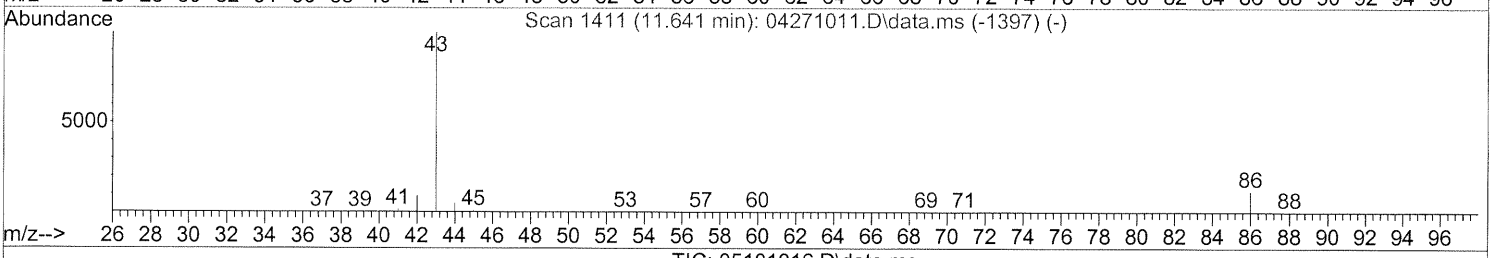
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101016.D\data.ms

(26) Vinyl Acetate (T)

11.670min (+0.046) 0.49ng

response 2938

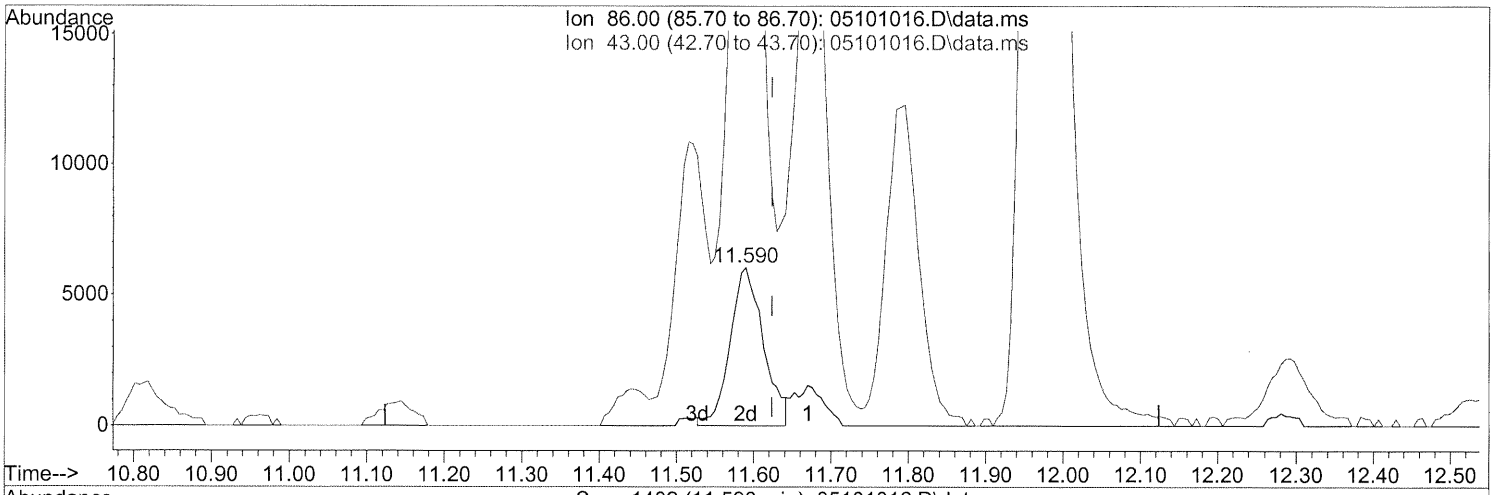
MP

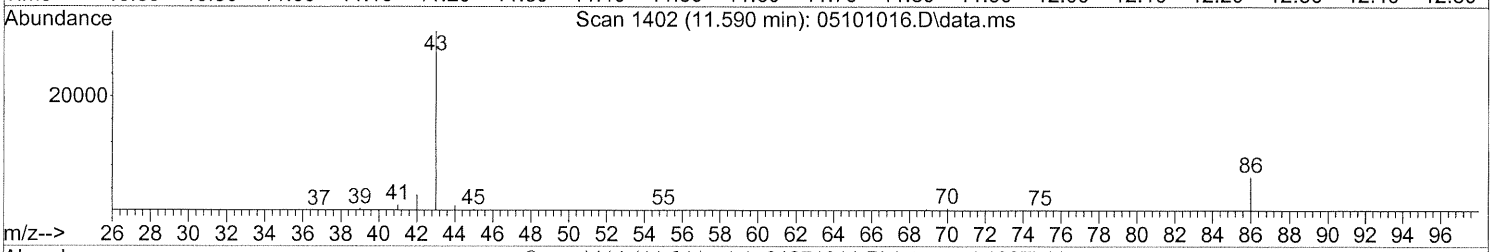
Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	2095.00#
0.00	0.00	0.00
0.00	0.00	0.00

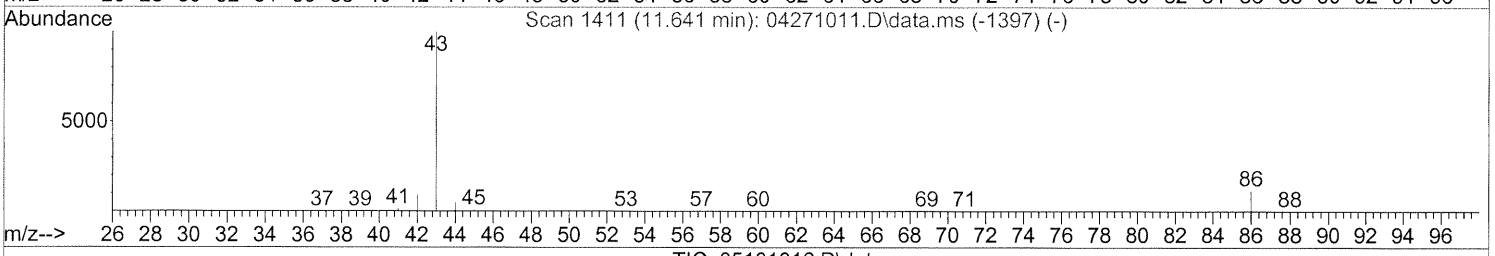
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101016.D\data.ms

(26) Vinyl Acetate (T)

11.590min (-0.034) 3.01ng m

response 18054

Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	340.93#
0.00	0.00	0.00
0.00	0.00	0.00

MP-7 IC

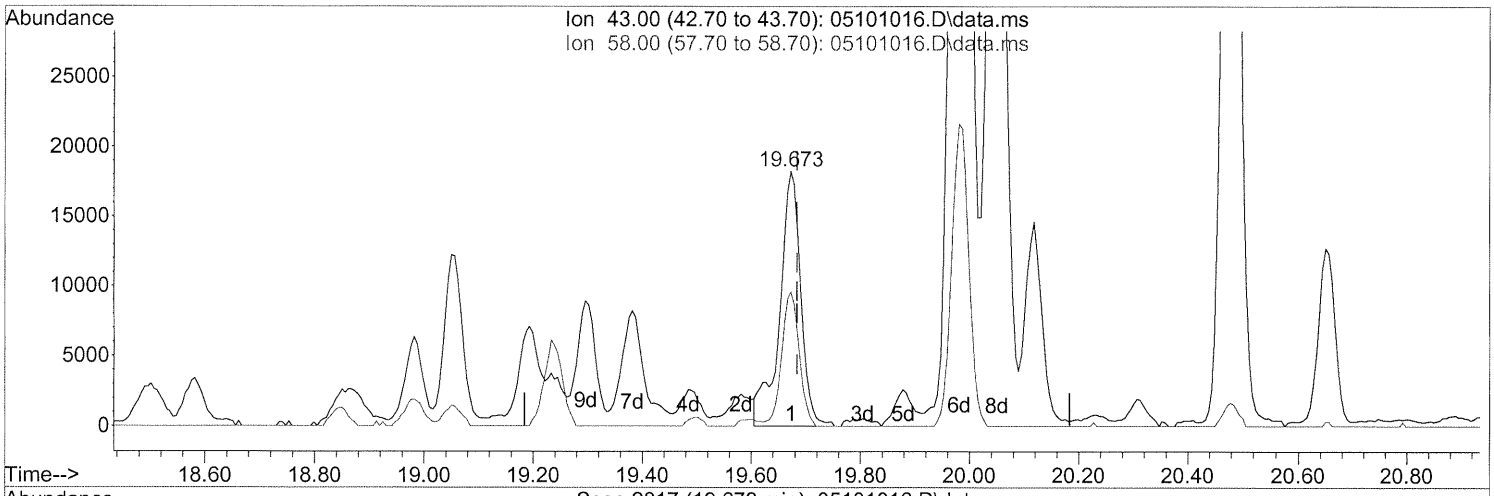
5/17/10

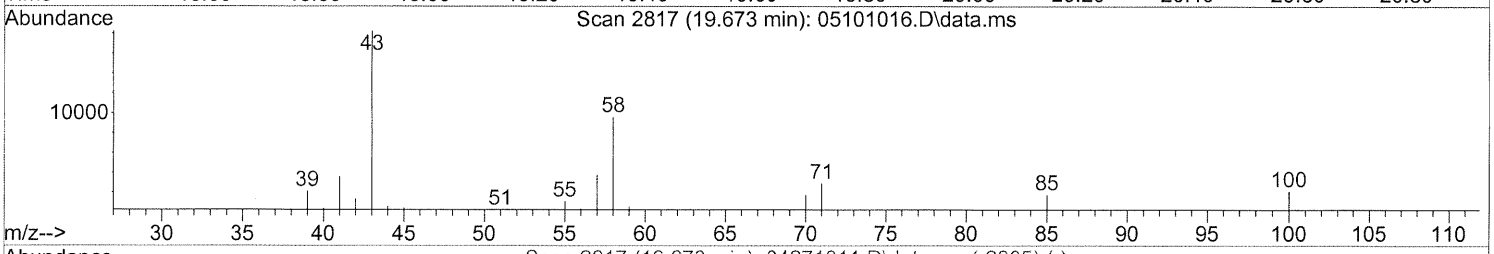
5/18/10

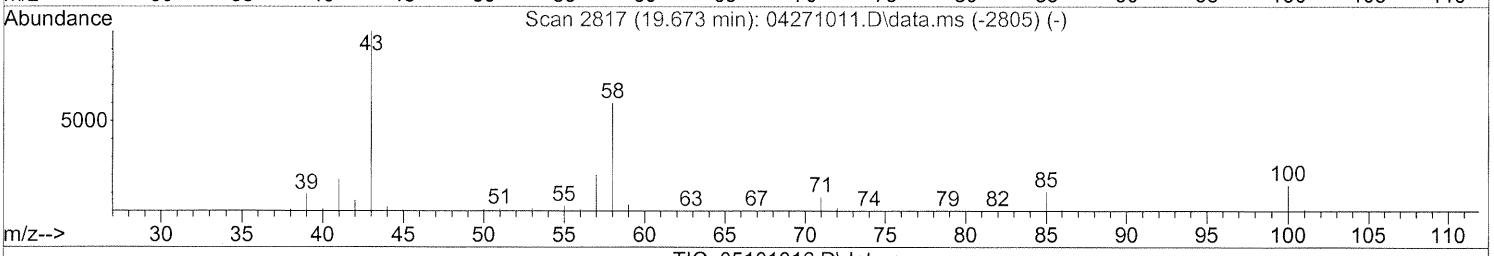
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101016.D\data.ms

(59) 2-Hexanone (T)

19.673min (-0.011) 1.04ng

response 48933

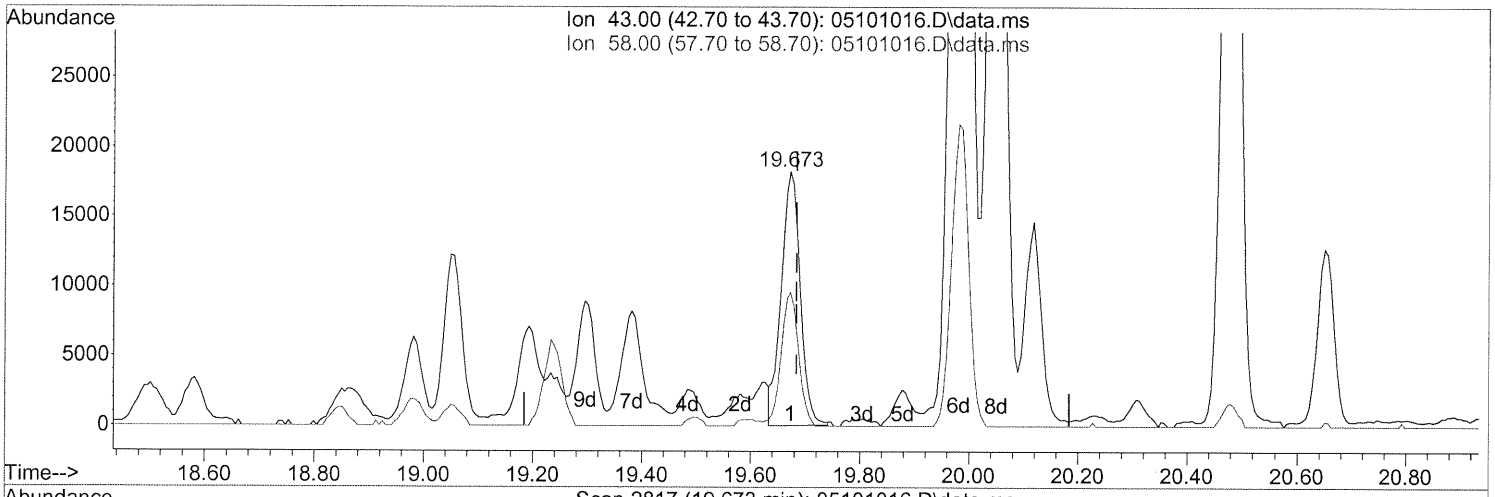
SH

Ion	Exp%	Act%
43.00	100	100
58.00	53.30	43.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101016.D\data.ms

(59) 2-Hexanone (T)

19.673min (-0.011) 0.93ng m

response 43828

Ion	Exp%	Act%
43.00	100	100
58.00	53.30	48.25
0.00	0.00	0.00
0.00	0.00	0.00

SH — 7 IC

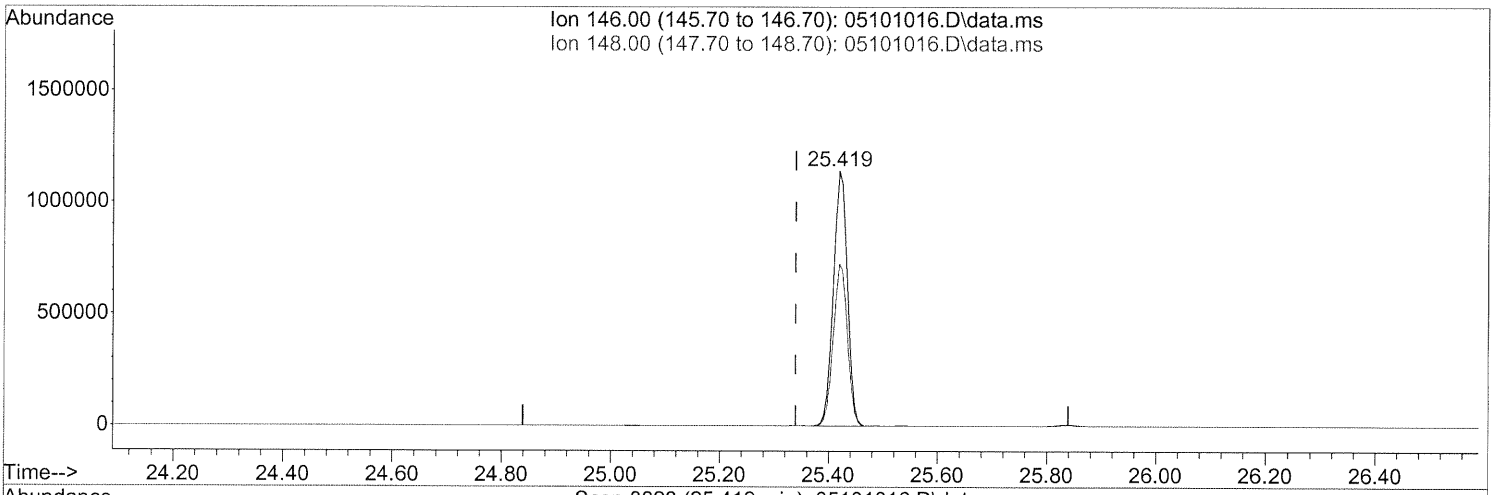
5/17/10

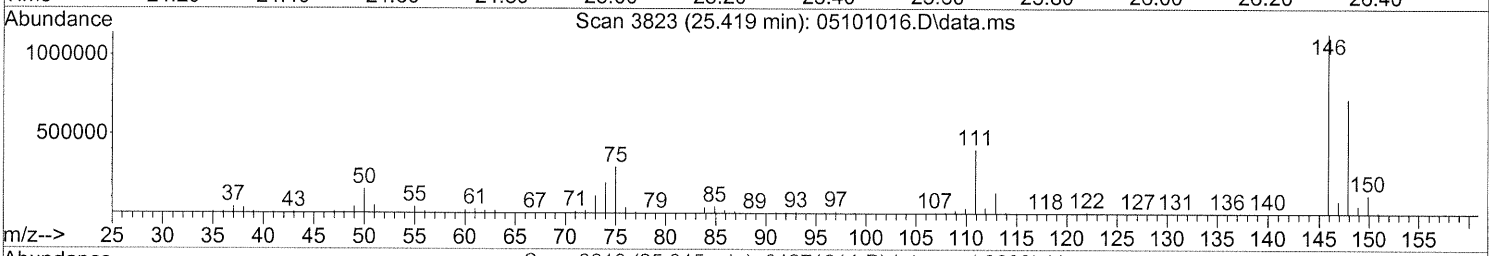
5/19/10

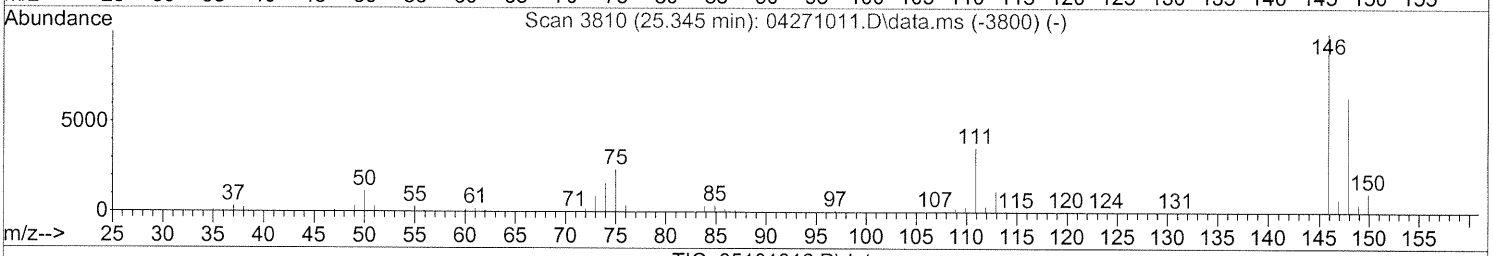
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101016.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.419min (+0.080) 32.12ng

response 2050965

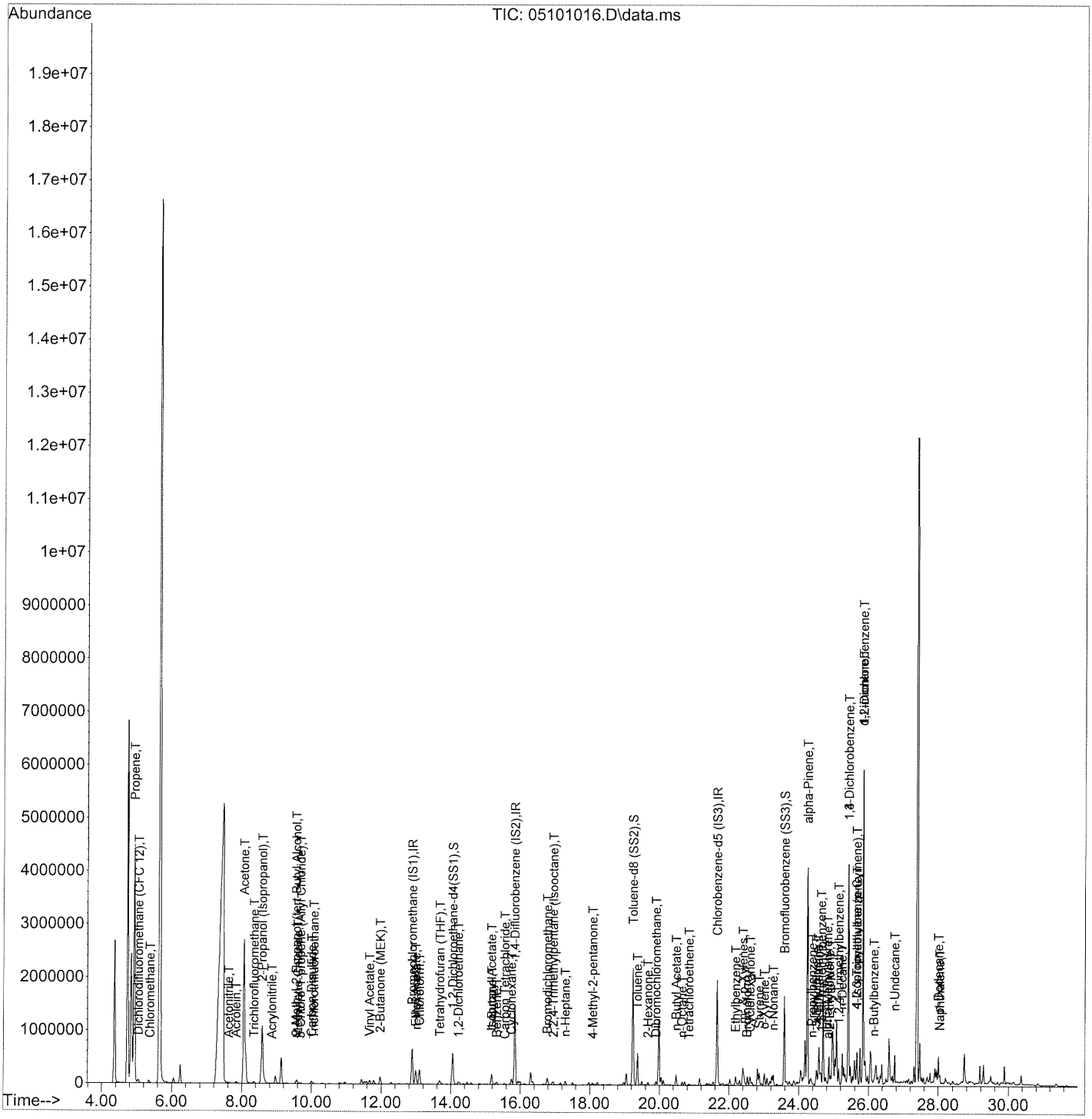
FP

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	63.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	391199	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.84	114	1835773	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	783582	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	580429	24.584	ng		0.00
Spiked Amount 25.000			Recovery =	98.32%			
57) Toluene-d8 (SS2)	19.24	98	1935575	24.491	ng		0.00
Spiked Amount 25.000			Recovery =	97.96%			
73) Bromofluorobenzene (SS3)	23.59	174	668408	24.145	ng		0.00
Spiked Amount 25.000			Recovery =	96.60%			
Target Compounds							Qvalue
2) Propene	4.93	42	549366	24.788	ng	#	1
3) Dichlorodifluoromethan...	5.05	85	68393	1.312	ng		99
4) Chloromethane	5.37	50	12184	0.386	ng		95
5) 1,2-Dichloro-1,1,2,2-t...	5.64	135	1448	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.13	54	1255	N.D.			
8) Bromomethane	6.64	94	513	N.D.			
9) Chloroethane	6.98	64	95	N.D.			
10) Ethanol	0.00	45	0	N.D.			
11) Acetonitrile	7.62	41	18323	0.560	ng		96
12) Acrolein	7.84	56	33055	2.483	ng		98
13) Acetone	8.06	58	1720690	99.751	ng		89
14) Trichlorofluoromethane	8.35	101	33709	0.711	ng		99
15) 2-Propanol (Isopropanol)	8.59	45	2333746	46.435	ng		99
16) Acrylonitrile	8.86	53	3302	0.126	ng	#	75
17) 1,1-Dichloroethene	9.40	96	116	N.D.			
18) 2-Methyl-2-Propanol (t...	9.56	59	41741	0.704	ng	#	1
19) Methylene Chloride	9.61	84	6035	0.233	ng	#	76
20) 3-Chloro-1-propene (Al...	9.68	41	4096	0.156	ng	#	42
21) Trichlorotrifluoroethane	10.06	151	7801	0.328	ng	#	74
22) Carbon Disulfide	10.00	76	95577	1.140	ng		100
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	11.50	73	1194	N.D.			
26) Vinyl Acetate	11.67	86	2938	0.489	ng	#	1
27) 2-Butanone (MEK)	11.97	72	66355	4.188	ng	#	68
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.00	87	1327	N.D.			
30) Ethyl Acetate	12.99	61	54151	6.435	ng		92
31) n-Hexane	13.01	57	42361	1.056	ng	#	96

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.10	83	296419	6.954 ng		99
34) Tetrahydrofuran (THF)	13.69	72	9924	0.645 ng	#	23
35) Ethyl tert-Butyl Ether	13.82	87	280	N.D.		
36) 1,2-Dichloroethane	14.22	62	40522	1.267 ng		99
38) 1,1,1-Trichloroethane	14.63	97	587	N.D.		
39) Isopropyl Acetate	15.17	61	2355	0.167 ng	#	1
40) 1-Butanol	15.18	56	157663	7.121 ng	#	75
41) Benzene	15.32	78	59998	0.574 ng		98
42) Carbon Tetrachloride	15.55	117	13686	0.426 ng		98
43) Cyclohexane	15.75	84	61586	1.583 ng	#	79
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.53	63	1581	N.D.		
46) Bromodichloromethane	16.78	83	110304	3.515 ng		100
47) Trichloroethene	16.86	130	1424	N.D.		
48) 1,4-Dioxane	16.83	88	1710	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	68755	0.716 ng		98
50) Methyl Methacrylate	17.11	100	1035	N.D.		
51) n-Heptane	17.30	71	23570	0.948 ng		87
52) cis-1,3-Dichloropropene	17.86	75	445	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	11763	0.594 ng		92
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	574489	5.154 ng		98
59) 2-Hexanone	19.67	43	48933	1.037 ng		86
60) Dibromochloromethane	19.91	129	47050	1.766 ng		100
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	164196	3.049 ng		93
63) n-Octane	20.65	57	12179	0.609 ng	#	83
64) Tetrachloroethene	20.84	166	10614	0.305 ng		98
65) Chlorobenzene	21.71	112	2010	N.D.		
66) Ethylbenzene	22.19	91	156291	1.279 ng		97
67) m- & p-Xylenes	22.40	91	326828	3.386 ng		93
68) Bromoform	22.51	173	6145	0.246 ng		97
69) Styrene	22.87	104	136464	1.797 ng		94
70) o-Xylene	23.01	91	128959	1.310 ng		94
71) n-Nonane	23.27	43	71716	1.671 ng	#	77
72) 1,1,2,2-Tetrachloroethane	23.01	83	1705	N.D.		
74) Cumene	23.75	105	12131	N.D.		
75) alpha-Pinene	24.25	93	1978563	31.709 ng		94
76) n-Propylbenzene	24.38	91	32233	0.207 ng	#	88
77) 3-Ethyltoluene	24.50	105	78843	0.640 ng		99
78) 4-Ethyltoluene	24.56	105	57727	0.465 ng		91
79) 1,3,5-Trimethylbenzene	24.64	105	33095	0.327 ng		92

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101016.D
Acq On : 10 May 2010 22:54
Operator : WA
Sample : P1001603-004 (1000mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 03:53:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

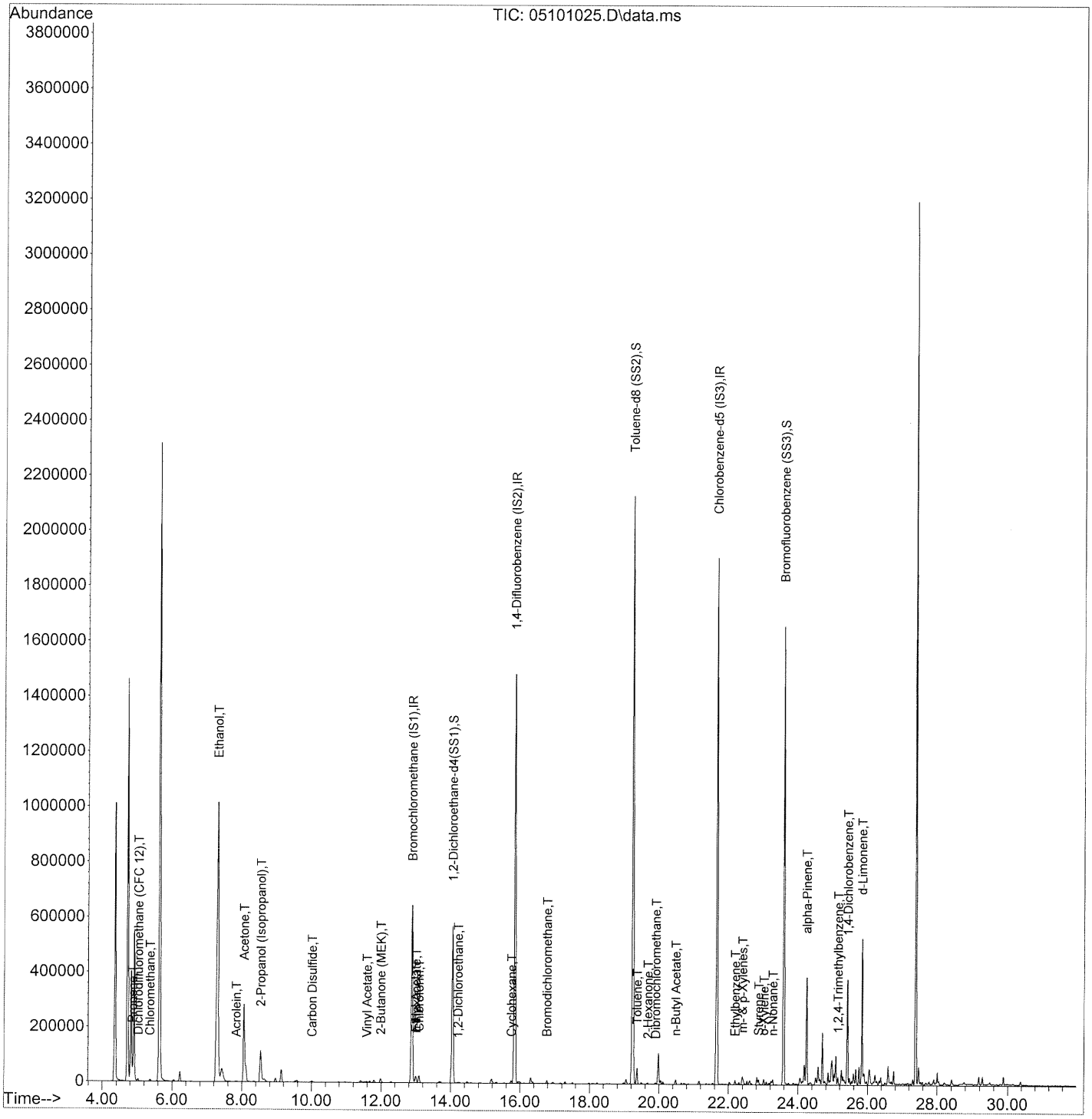
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	6828	0.122	ng		96
81) 2-Ethyltoluene	24.88	105	32511	0.254	ng		93
82) 1,2,4-Trimethylbenzene	25.15	105	125764	1.201	ng		97
83) n-Decane	25.25	57	206146	4.320	ng		87
84) Benzyl Chloride	25.31	91	1976	N.D.			
85) 1,3-Dichlorobenzene	25.42	146	2050965	32.120	ng		100
86) 1,4-Dichlorobenzene	25.42	146	2050965	30.977	ng		100
87) sec-Butylbenzene	25.48	105	7314	N.D.			
88) 4-Isopropyltoluene (p-...	25.66	119	241749	1.788	ng		88
89) 1,2,3-Trimethylbenzene	25.67	105	44471	0.421	ng	#	42
90) 1,2-Dichlorobenzene	25.84	146	10567	0.174	ng		98
91) d-Limonene	25.84	68	1499996	41.252	ng	#	72
92) 1,2-Dibromo-3-Chloropr...	26.76	157	1198	N.D.			
93) n-Undecane	26.76	57	176314	3.731	ng		82
94) 1,2,4-Trichlorobenzene	27.90	180	550	N.D.			
95) Naphthalene	28.05	128	98181	0.738	ng		99
96) n-Dodecane	28.01	57	164881	3.365	ng		89
97) Hexachlorobutadiene	0.00	225	0	N.D.			
98) Cyclohexanone	22.60	55	89496	2.799	ng	#	85
99) tert-Butylbenzene	25.43	119	3811	N.D.			
100) n-Butylbenzene	26.15	91	22624	0.210	ng	#	30

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 15 17:35:00 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 15 17:35:00 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	381632	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1824204	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	758275	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	572568	24.859	ng		0.00
Spiked Amount 25.000			Recovery =	99.44%			✓
57) Toluene-d8 (SS2)	19.24	98	1913832	25.024	ng		0.00
Spiked Amount 25.000			Recovery =	100.08%			✓
73) Bromofluorobenzene (SS3)	23.58	174	653731	24.403	ng		0.00
Spiked Amount 25.000			Recovery =	97.60%			✓
Target Compounds							Qvalue
2) Propene	4.87	42	13365m	0.618	ng		
3) Dichlorodifluoromethan...	5.03	85	7094	0.140	ng	#	95
4) Chloromethane	5.36	50	3240	0.105	ng		92
10) Ethanol	7.30	45	2136241m	162.217	ng		
12) Acrolein	7.84	56	2716	0.209	ng		96
13) Acetone	8.05	58	165966	9.862	ng		93
15) 2-Propanol (Isopropanol)	8.53	45	255889	5.219	ng		98
22) Carbon Disulfide	10.01	76	9624	0.118	ng		87
26) Vinyl Acetate	11.59	86	1270	0.217	ng	#	1
27) 2-Butanone (MEK)	11.98	72	7050	0.456	ng	#	73
30) Ethyl Acetate	13.00	61	4495	0.548	ng		91
31) n-Hexane	13.01	57	4104	0.105	ng	#	93
32) Chloroform	13.09	83	28429	0.684	ng		97
36) 1,2-Dichloroethane	14.21	62	4013	0.129	ng		87
43) Cyclohexane	15.74	84	5865	0.152	ng	#	81
46) Bromodichloromethane	16.78	83	10115	0.324	ng		98
58) Toluene	19.37	91	57046	0.529	ng		99
59) 2-Hexanone	19.68	43	4185	0.092	ng		90
60) Dibromochloromethane	19.91	129	4177	0.162	ng		100
62) n-Butyl Acetate	20.48	43	14389	0.276	ng		92
66) Ethylbenzene	22.19	91	15205	0.129	ng		98
67) m- & p-Xylenes	22.40	91	31536	0.338	ng		93
69) Styrene	22.87	104	12132	0.165	ng		91
70) o-Xylene	23.01	91	11945	0.125	ng		93
71) n-Nonane	23.27	43	7142	0.172	ng		86
75) alpha-Pinene	24.24	93	187018	3.097	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	11798	0.116	ng		94
86) 1,4-Dichlorobenzene	25.42	146	193144	3.015	ng		99
91) d-Limonene	25.84	68	131496	3.737	ng	#	72

DA 5/17/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 15 17:35:00 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

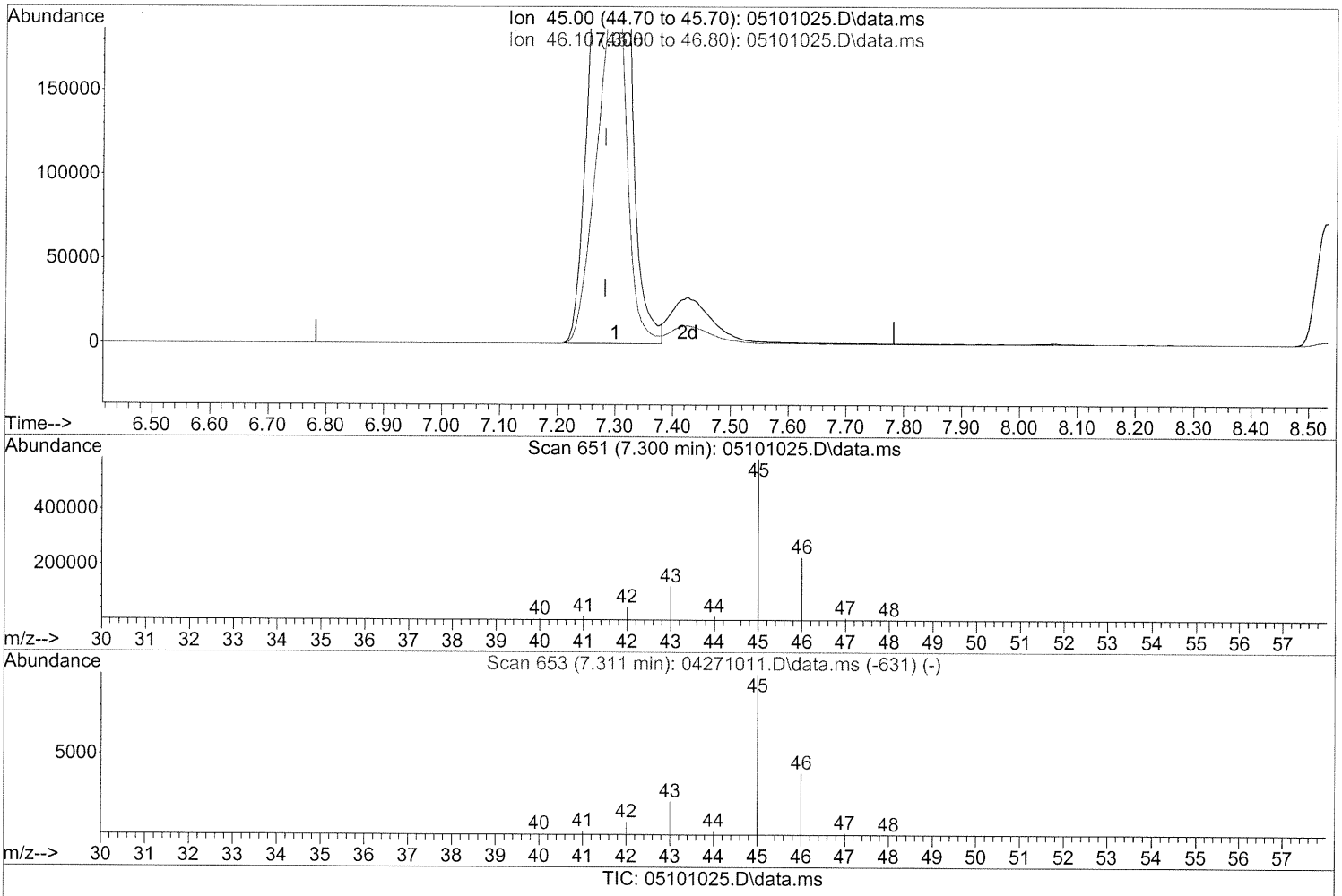
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 06:28:15 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101025.D\data.ms

(10) Ethanol (T)

7.300min (+0.017) 151.82ng

response 1999275

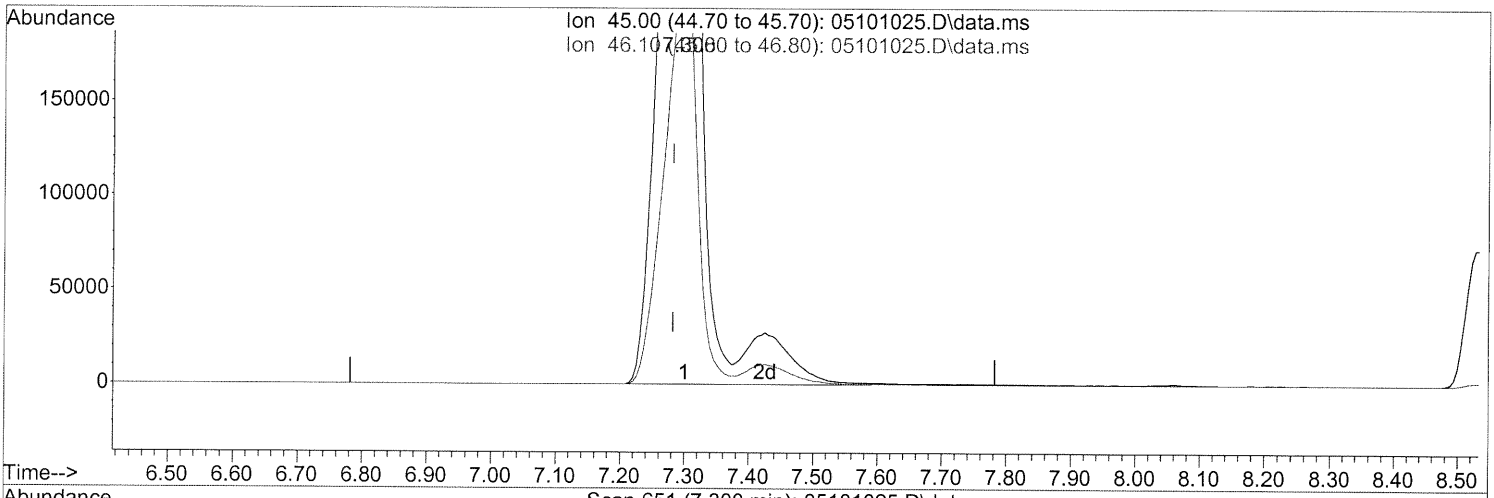
SP

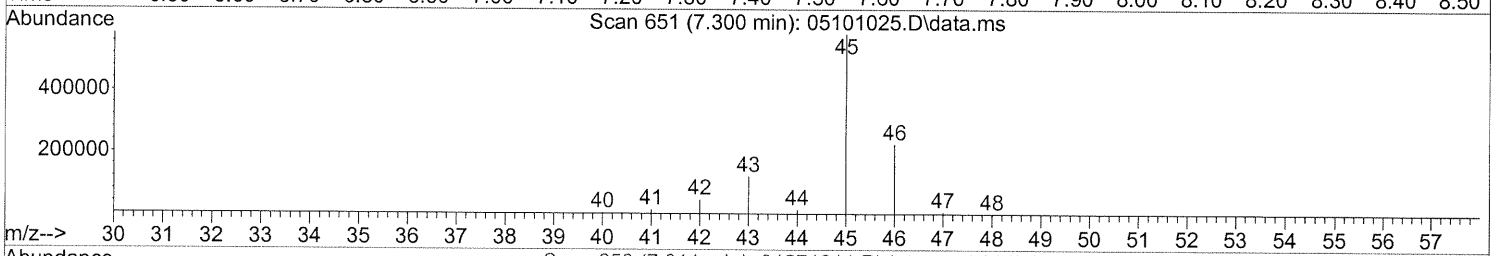
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.60
0.00	0.00	0.00
0.00	0.00	0.00

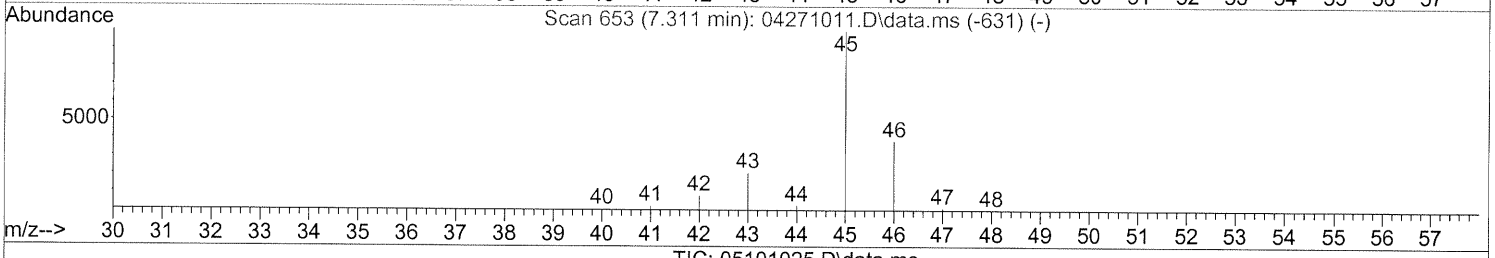
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 06:28:15 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101025.D\data.ms

(10) Ethanol (T)

7.300min (+0.017) 162.22ng m

response 2136241

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	36.13
0.00	0.00	0.00
0.00	0.00	0.00

SP-7 IC

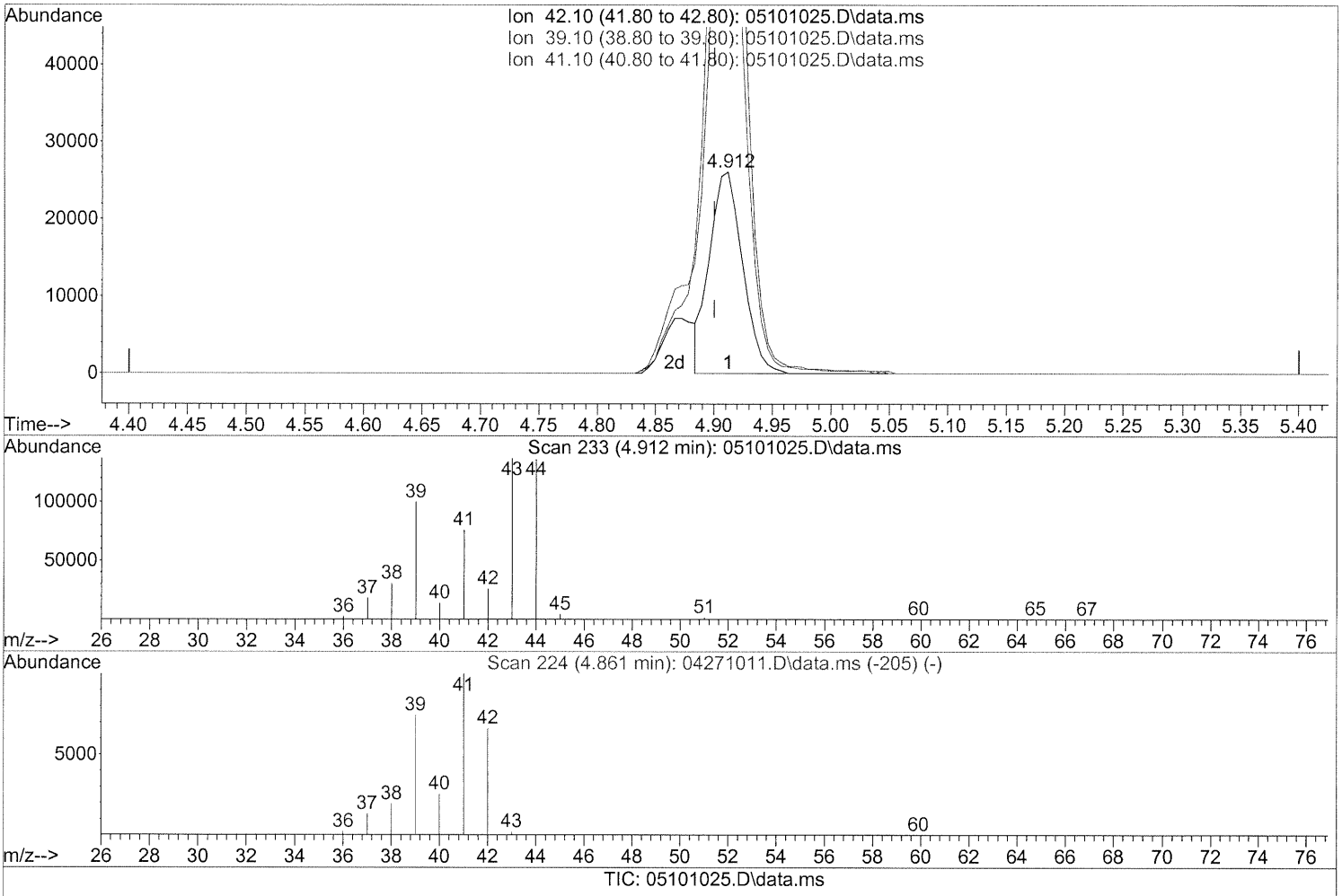
MA 5/17/10

5/18/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 06:28:15 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101025.D\data.ms

(2) Propene (T)

4.912min (+0.012) 2.38ng

response 51409

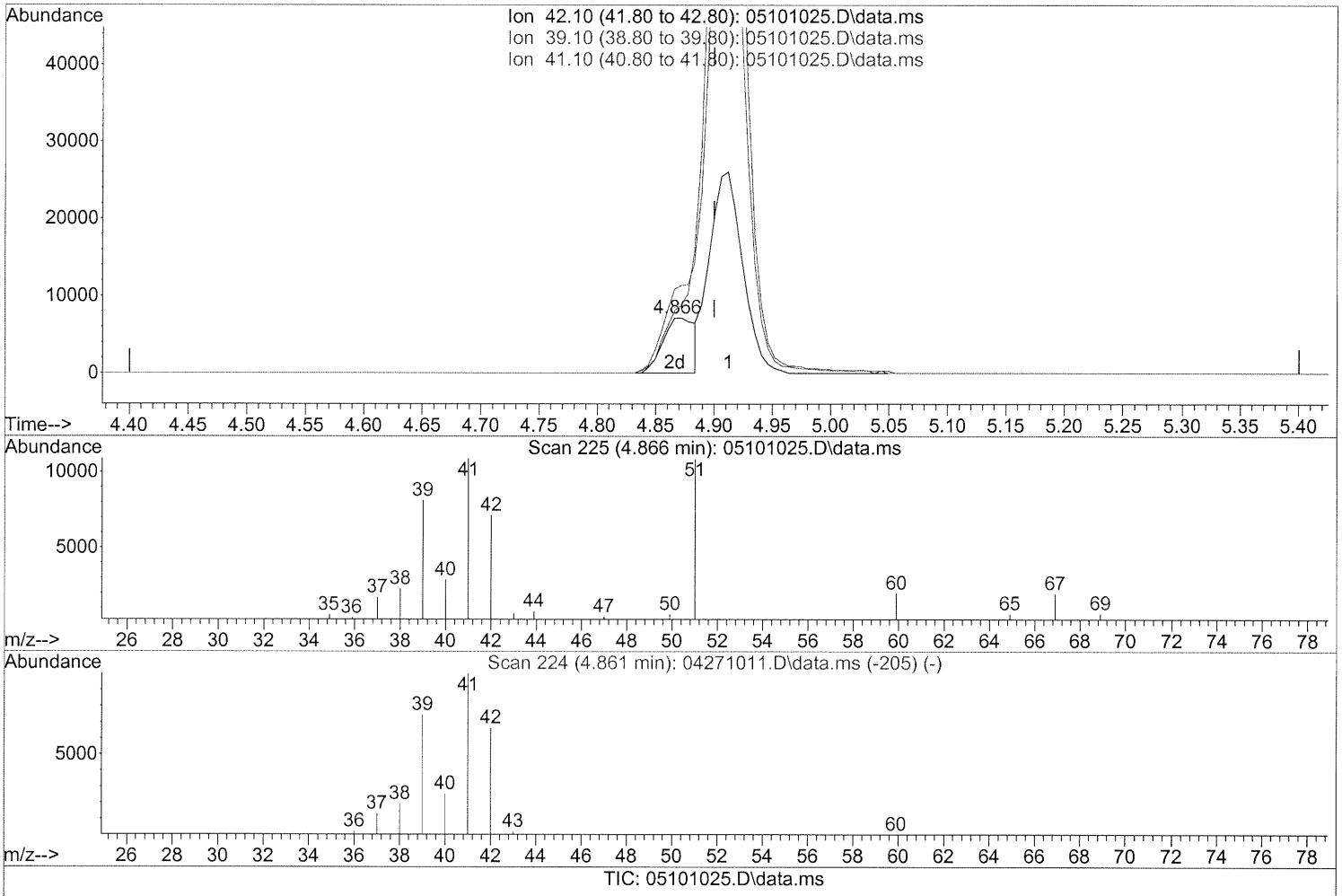
Ion	Exp%	Act%
42.10	100	100
39.10	112.20	426.14#
41.10	153.90	340.12#
0.00	0.00	0.00

MP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 06:28:15 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101025.D\data.ms

(2) Propene (T)

4.866min (-0.034) 0.62ng m

response 13365

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	1639.16#
41.10	153.90	1308.29#
0.00	0.00	0.00

MP-7 IC

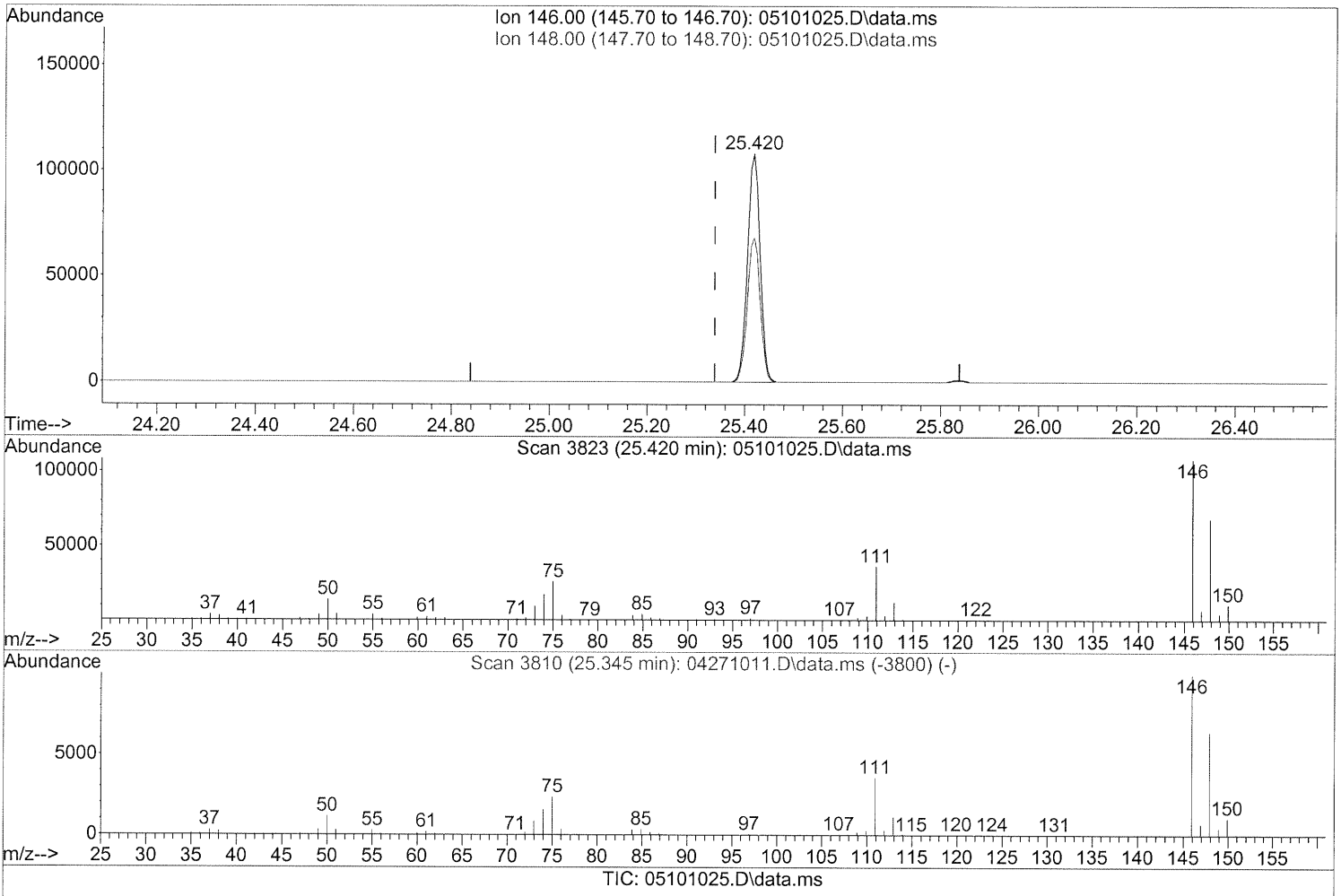
5/17/10

5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 06:28:15 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101025.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.420min (+0.080) 3.13ng

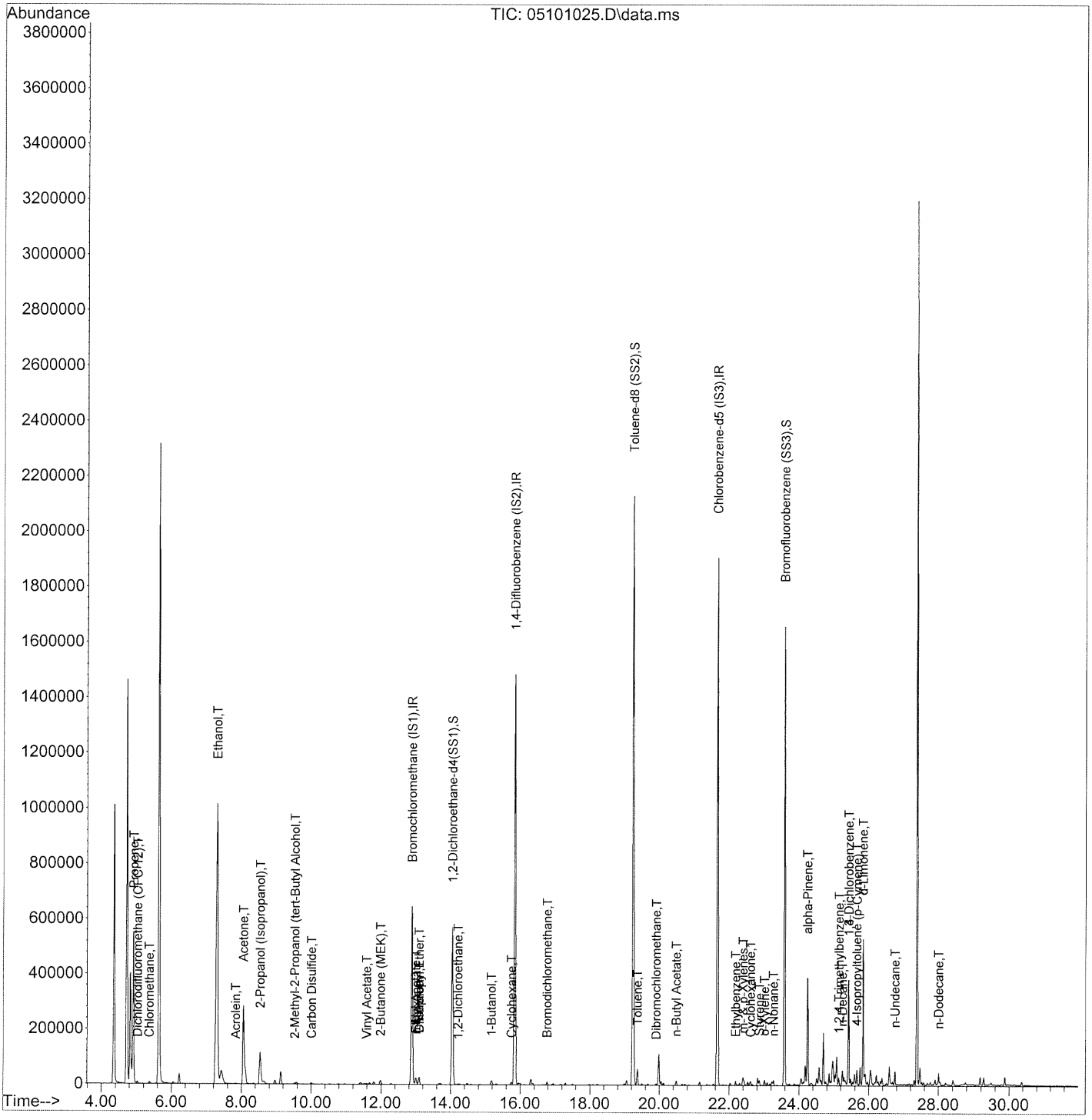
response 193144

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	64.23
0.00	0.00	0.00
0.00	0.00	0.00

FP

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 06:28:15 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 06:28:15 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	381632	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1824204	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	758275	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	572568	24.859	ng		0.00
Spiked Amount 25.000			Recovery =	99.44%			
57) Toluene-d8 (SS2)	19.24	98	1913832	25.024	ng		0.00
Spiked Amount 25.000			Recovery =	100.08%			
73) Bromofluorobenzene (SS3)	23.58	174	653731	24.403	ng		0.00
Spiked Amount 25.000			Recovery =	97.60%			
Target Compounds							Qvalue
2) Propene	4.91	42	51409	2.378	ng	#	1
3) Dichlorodifluoromethan...	5.03	85	7094	0.140	ng	#	95
4) Chloromethane	5.36	50	3240	0.105	ng		92
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	7.30	45	1999275	151.816	ng		100
11) Acetonitrile	7.60	41	1489	N.D.			
12) Acrolein	7.84	56	2716	0.209	ng		96
13) Acetone	8.05	58	165966	9.862	ng		93
14) Trichlorofluoromethane	8.35	101	3194	N.D.			
15) 2-Propanol (Isopropanol)	8.53	45	255889	5.219	ng		98
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	10673	0.184	ng	#	79
19) Methylene Chloride	9.58	84	1235	N.D.			
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	10.05	151	89	N.D.			
22) Carbon Disulfide	10.01	76	9624	0.118	ng		87
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	11.59	86	1270	0.217	ng	#	1
27) 2-Butanone (MEK)	11.98	72	7050	0.456	ng	#	73
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.09	87	2917	0.138	ng	#	1
30) Ethyl Acetate	13.00	61	4495	0.548	ng		91
31) n-Hexane	13.01	57	4104	0.105	ng	#	93

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 06:28:15 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.09	83	28429	0.684 ng		97
34) Tetrahydrofuran (THF)	13.71	72	1022	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.21	62	4013	0.129 ng		87
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.17	56	14209	0.646 ng	#	76
41) Benzene	15.31	78	6160	N.D.		
42) Carbon Tetrachloride	15.54	117	1003	N.D.		
43) Cyclohexane	15.74	84	5865	0.152 ng	#	81
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.78	83	10115	0.324 ng		98
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	6370	N.D.		
50) Methyl Methacrylate	17.31	100	456	N.D.		
51) n-Heptane	17.30	71	1981	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	808	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	57046	0.529 ng		99
59) 2-Hexanone	19.68	43	4185	N.D.		
60) Dibromochloromethane	19.91	129	4177	0.162 ng		100
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	14389	0.276 ng		92
63) n-Octane	20.64	57	1212	N.D.		
64) Tetrachloroethene	20.85	166	1063	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.19	91	15205	0.129 ng		98
67) m- & p-Xylenes	22.40	91	31536	0.338 ng		93
68) Bromoform	22.51	173	90	N.D.		
69) Styrene	22.87	104	12132	0.165 ng		91
70) o-Xylene	23.01	91	11945	0.125 ng		93
71) n-Nonane	23.27	43	7142	0.172 ng		86
72) 1,1,2,2-Tetrachloroethane	23.08	83	176	N.D.		
74) Cumene	23.75	105	1109	N.D.		
75) alpha-Pinene	24.24	93	187018	3.097 ng		94
76) n-Propylbenzene	24.38	91	2921	N.D.		
77) 3-Ethyltoluene	24.50	105	7664	N.D.		
78) 4-Ethyltoluene	24.56	105	5654	N.D.		
79) 1,3,5-Trimethylbenzene	24.64	105	3064	N.D.		

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101025.D
Acq On : 11 May 2010 5:10
Operator : WA
Sample : P1001603-004 Dil (100mL)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 06:28:15 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	437	N.D.			
81) 2-Ethyltoluene	24.88	105	2967	N.D.			
82) 1,2,4-Trimethylbenzene	25.15	105	11798	0.116	ng		94
83) n-Decane	25.25	57	19654	0.426	ng		86
84) Benzyl Chloride	25.43	91	1817	N.D.			
85) 1,3-Dichlorobenzene	25.42	146	193144	3.126	ng		99
86) 1,4-Dichlorobenzene	25.42	146	193144	3.015	ng		99
87) sec-Butylbenzene	25.47	105	327	N.D.			
88) 4-Isopropyltoluene (p-...	25.66	119	22339	0.171	ng		89
89) 1,2,3-Trimethylbenzene	25.67	105	4246	N.D.			
90) 1,2-Dichlorobenzene	25.84	146	1564	N.D.			
91) d-Limonene	25.84	68	131496	3.737	ng	#	72
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	26.76	57	15337	0.335	ng		78
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.			
95) Naphthalene	28.05	128	8982	N.D.			
96) n-Dodecane	28.01	57	13789	0.291	ng		81
97) Hexachlorobutadiene	0.00	225	0	N.D.			
98) Cyclohexanone	22.61	55	8715	0.282	ng	#	83
99) tert-Butylbenzene	25.14	119	1478	N.D.			
100) n-Butylbenzene	26.15	91	2345	N.D.			

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110288**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01452

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10/10
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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	0.20	ND	0.097	
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	0.20	ND	0.090	
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	2.0	ND	0.87	
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	1.0	ND	0.41	
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	5.0	ND	1.6	
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	5.0	ND	1.7	

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: RG Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110288**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01452

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10/10
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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: Rc Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110288**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01452

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10/10
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

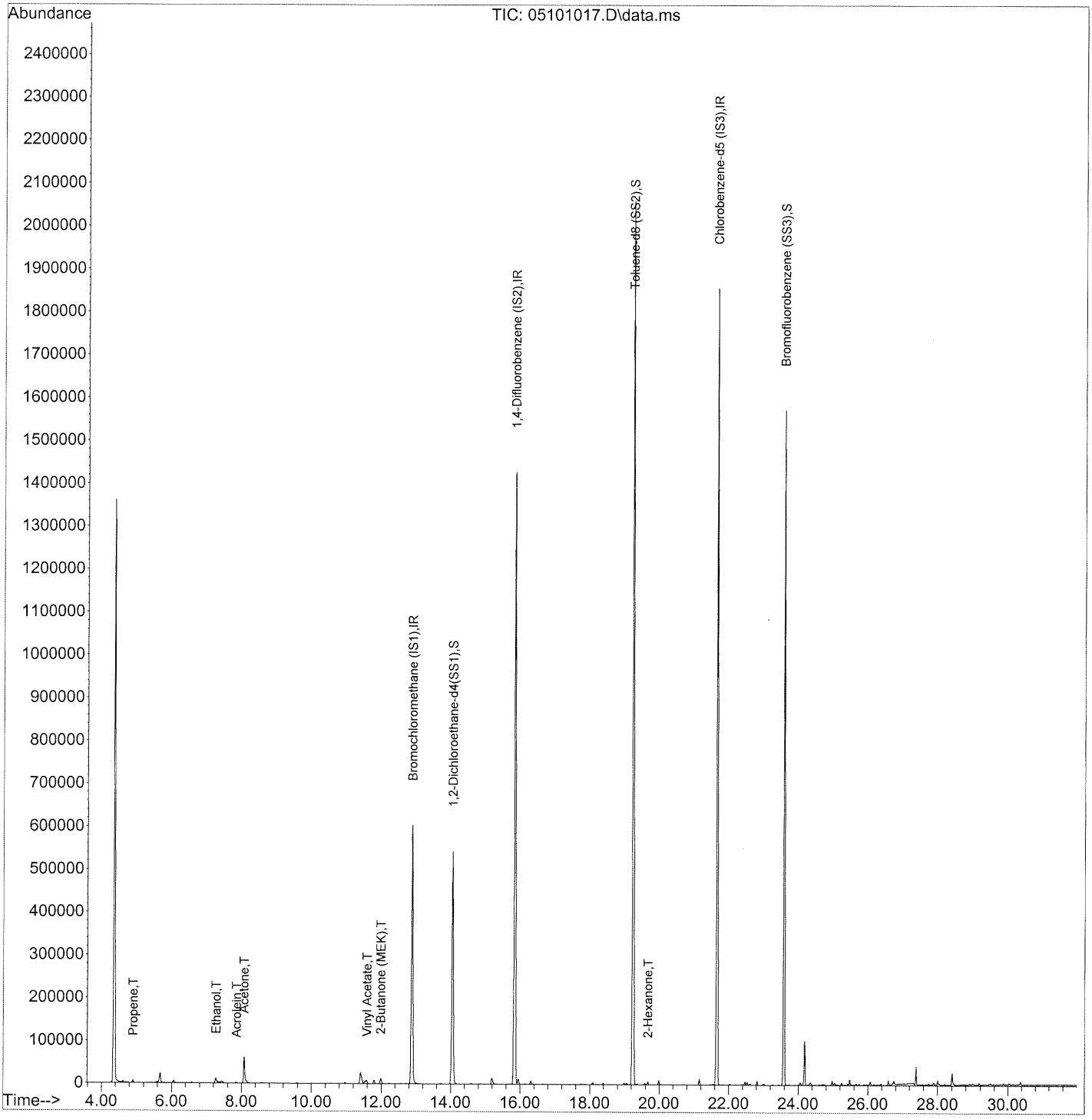
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101017.D
Acq On : 10 May 2010 23:35
Operator : WA
Sample : P1001603-005 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 14 07:37:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



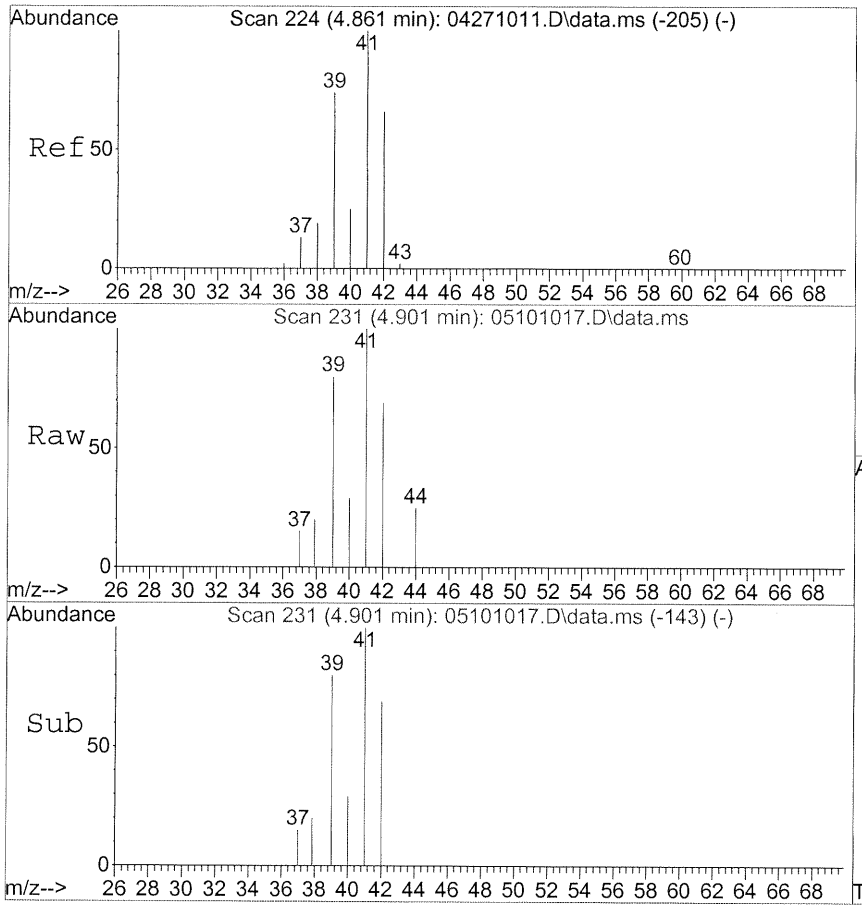
Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101017.D
Acq On : 10 May 2010 23:35
Operator : WA
Sample : P1001603-005 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 14 07:37:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	363030	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1764660	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	732486	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	552263	25.206	ng		0.00 ✓
Spiked Amount 25.000			Recovery = 100.84%				
57) Toluene-d8 (SS2)	19.23	98	1851207	25.058	ng		0.00 ✓
Spiked Amount 25.000			Recovery = 100.24%				
73) Bromofluorobenzene (SS3)	23.58	174	624314	24.125	ng		0.00 ✓
Spiked Amount 25.000			Recovery = 96.52%				
Target Compounds							Qvalue
2) Propene	4.90	42	2200	0.107	ng		87
10) Ethanol	7.27	45	36303m	2.898	ng		
12) Acrolein	7.85	56	3451	0.279	ng		98
13) Acetone	8.07	58	40147	2.508	ng	#	67
26) Vinyl Acetate	11.59	86	2115	0.380	ng	#	1
27) 2-Butanone (MEK)	11.98	72	6491	0.441	ng	#	73
59) 2-Hexanone	19.67	43	5859	0.133	ng		94

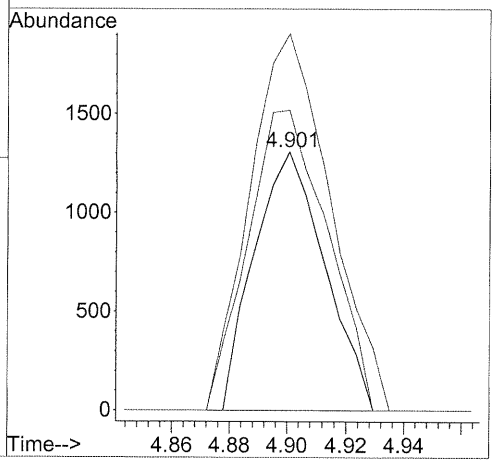
(#) = qualifier out of range (m) = manual integration (+) = signals summed

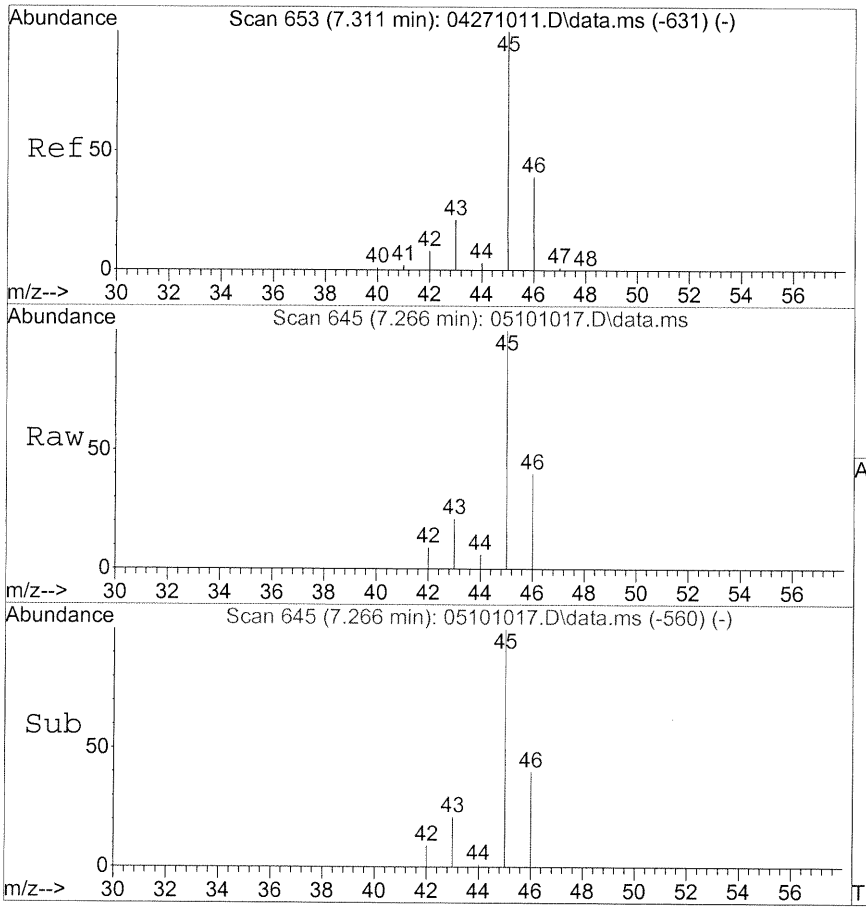


#2
Propene
Concen: 0.11 ng
RT: 4.90 min Scan# 231
Delta R.T. 0.000 min
Lab File: 05101017.D
Acq: 10 May 2010 23:35

Tgt Ion: 42 Resp: 2200

Ion	Ratio	Lower	Upper
42	100		
39	131.3	92.2	132.2
41	166.8	133.9	173.9

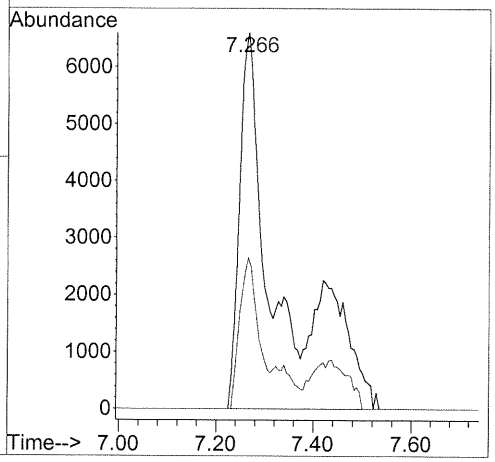


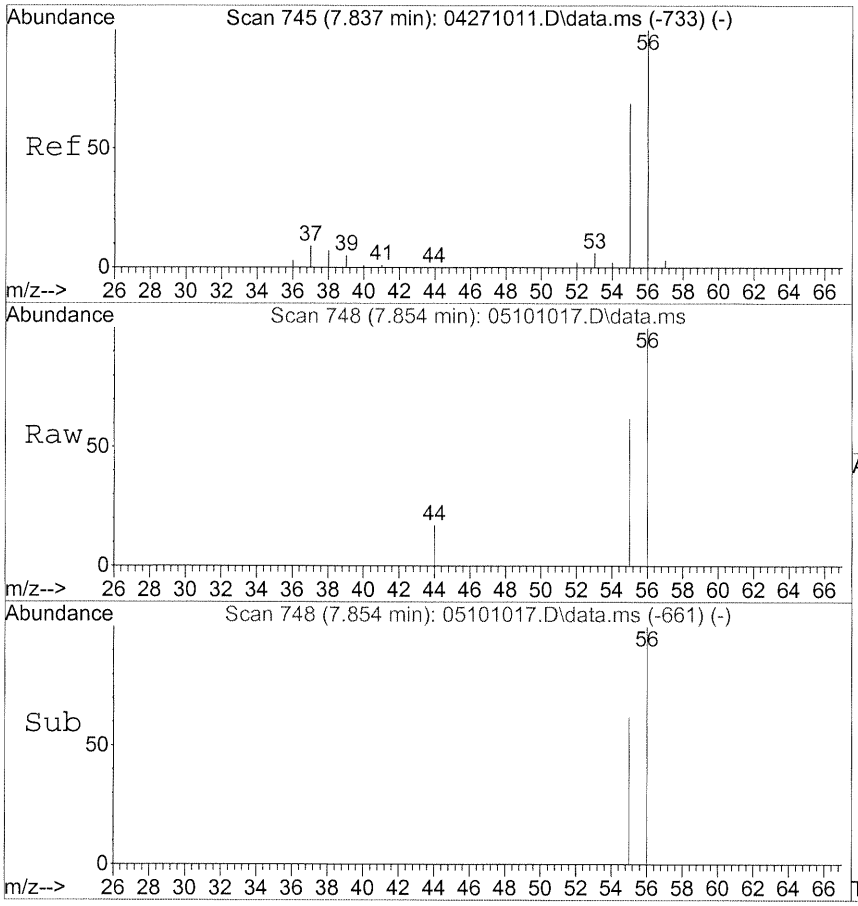


#10
Ethanol
Concen: 2.90 ng m
RT: 7.27 min Scan# 645
Delta R.T. -0.017 min
Lab File: 05101017.D
Acq: 10 May 2010 23:35

Tgt Ion: 45 Resp: 36303

Ion	Ratio	Lower	Upper
45	100		
46	26.0	18.4	58.4

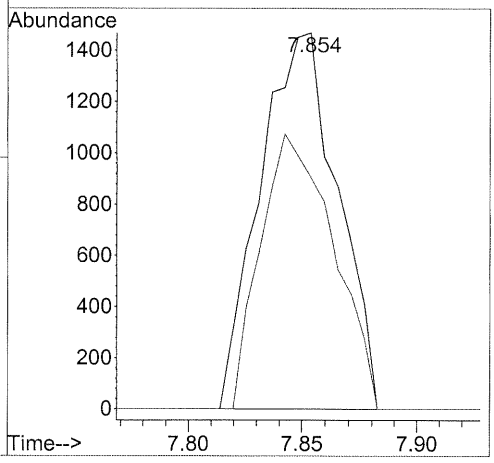


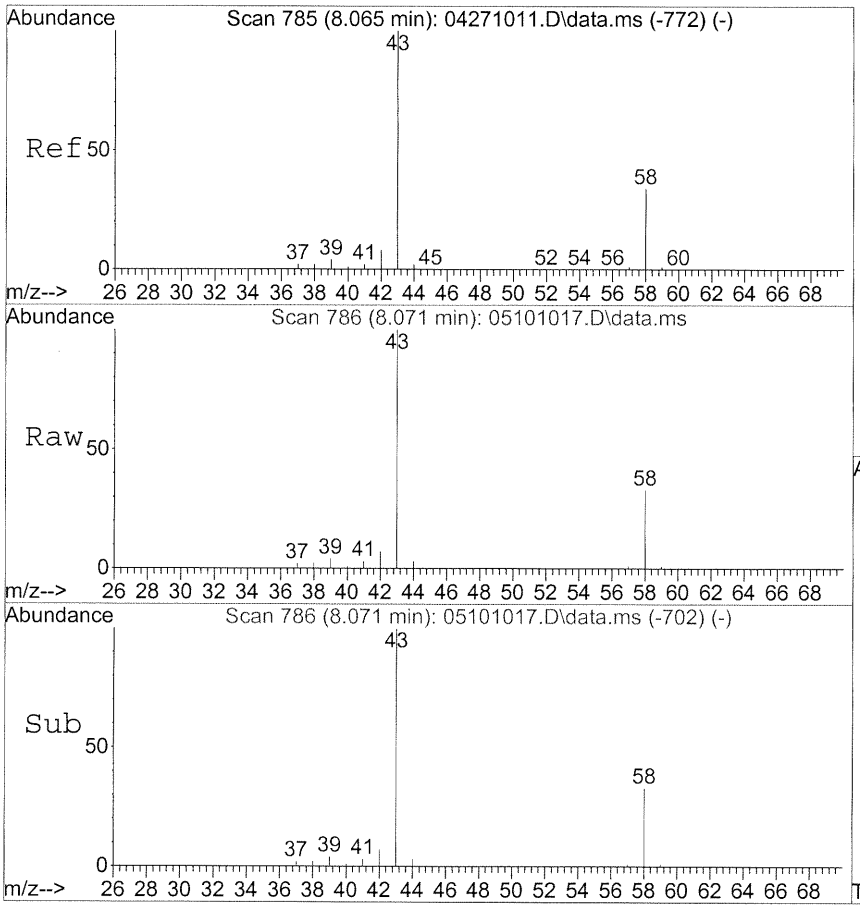


#12
Acrolein
Concen: 0.28 ng
RT: 7.85 min Scan# 748
Delta R.T. -0.005 min
Lab File: 05101017.D
Acq: 10 May 2010 23:35

Tgt Ion: 56 Resp: 3451

Ion	Ratio	Lower	Upper
56	100		
55	68.7	50.5	90.5

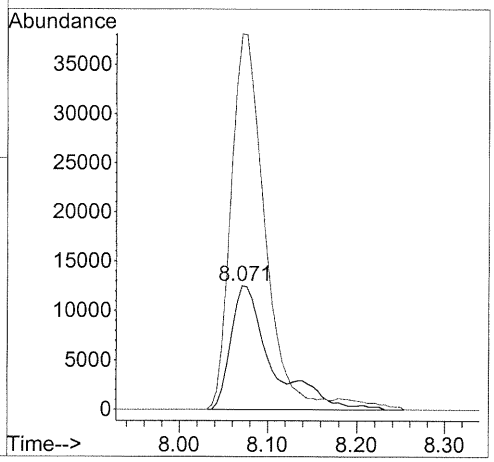


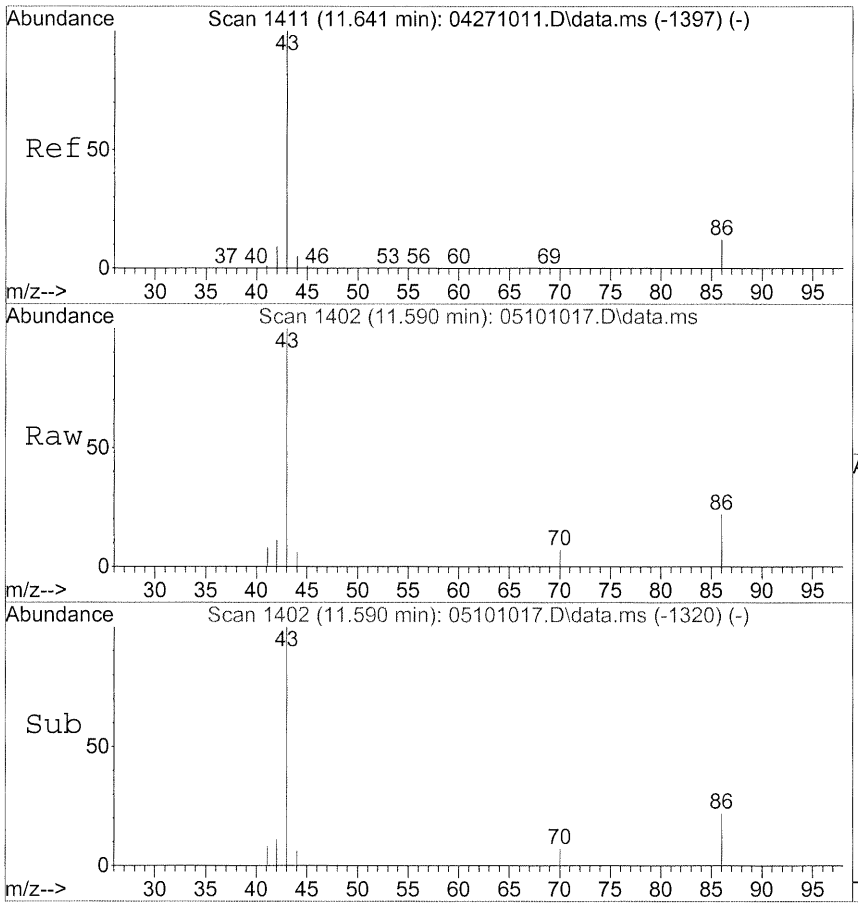


#13
Acetone
Concen: 2.51 ng
RT: 8.07 min Scan# 786
Delta R.T. -0.023 min
Lab File: 05101017.D
Acq: 10 May 2010 23:35

Tgt Ion: 58 Resp: 40147

Ion	Ratio	Lower	Upper
58	100		
43	257.2	295.0	355.0#

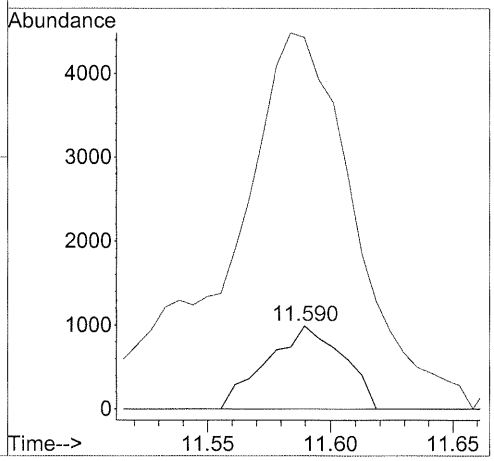


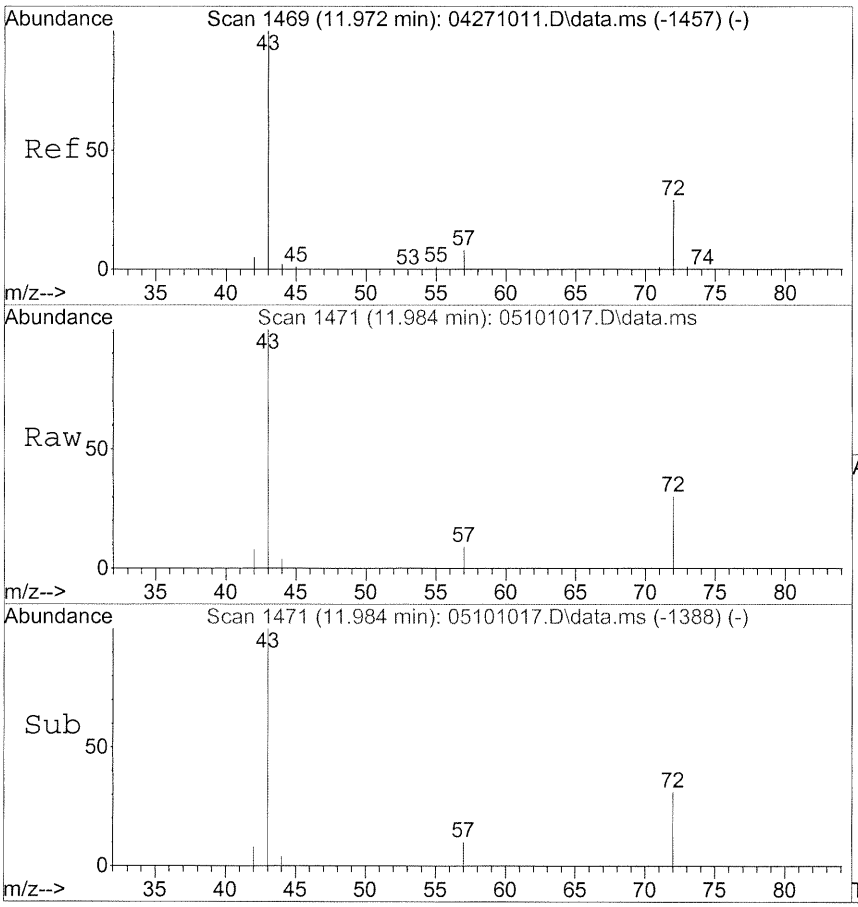


#26
Vinyl Acetate
Concen: 0.38 ng
RT: 11.59 min Scan# 1402
Delta R.T. -0.034 min
Lab File: 05101017.D
Acq: 10 May 2010 23:35

Tgt Ion: 86 Resp: 2115

Ion	Ratio	Lower	Upper
86	100		
43	755.1	1285.5	1325.5#

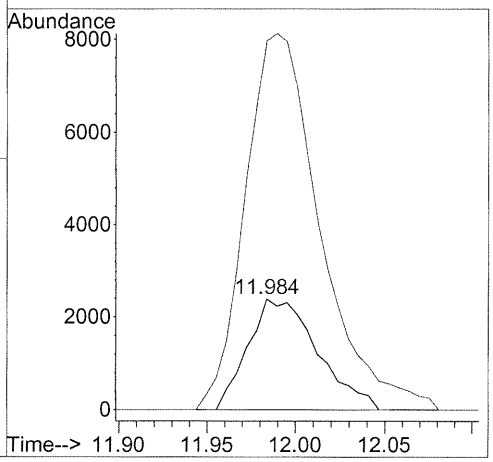


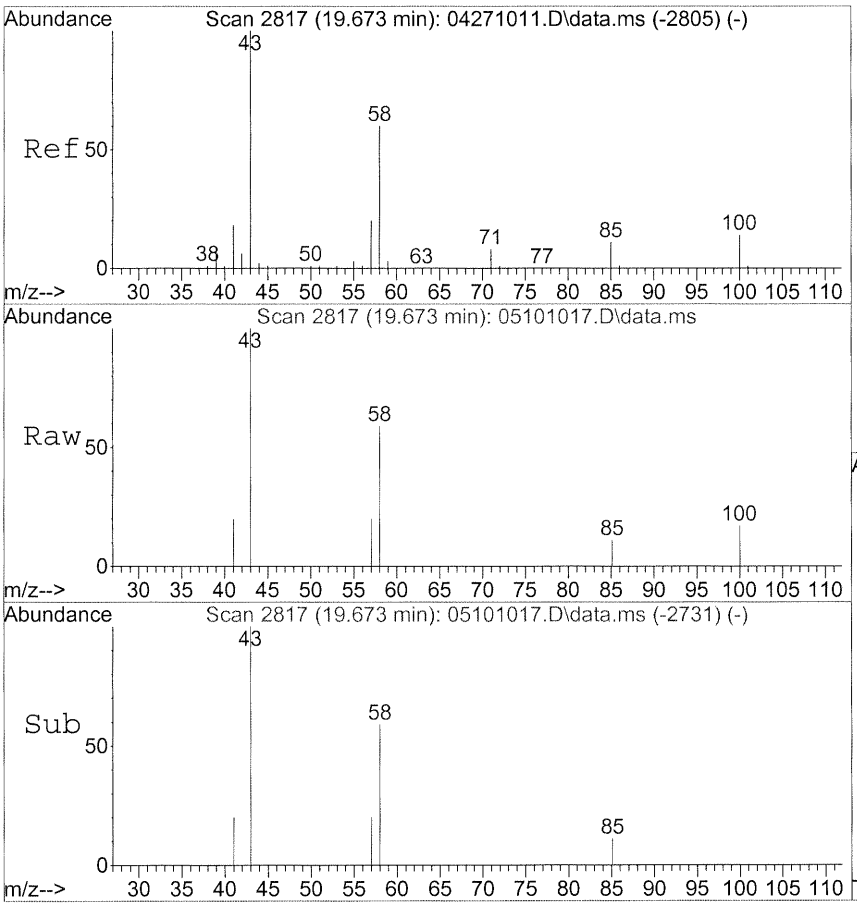


#27
2-Butanone (MEK)
Concen: 0.44 ng
RT: 11.98 min Scan# 1471
Delta R.T. -0.028 min
Lab File: 05101017.D
Acq: 10 May 2010 23:35

Tgt Ion: 72 Resp: 6491

Ion	Ratio	Lower	Upper
72	100		
43	365.7	412.3	452.3#

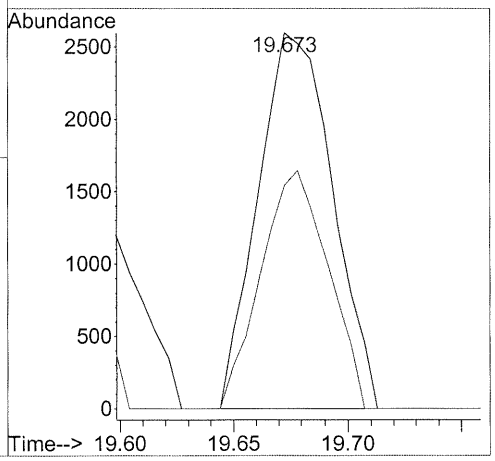




#59
2-Hexanone
Concen: 0.13 ng
RT: 19.67 min Scan# 2817
Delta R.T. -0.011 min
Lab File: 05101017.D
Acq: 10 May 2010 23:35

Tgt Ion: 43 Resp: 5859

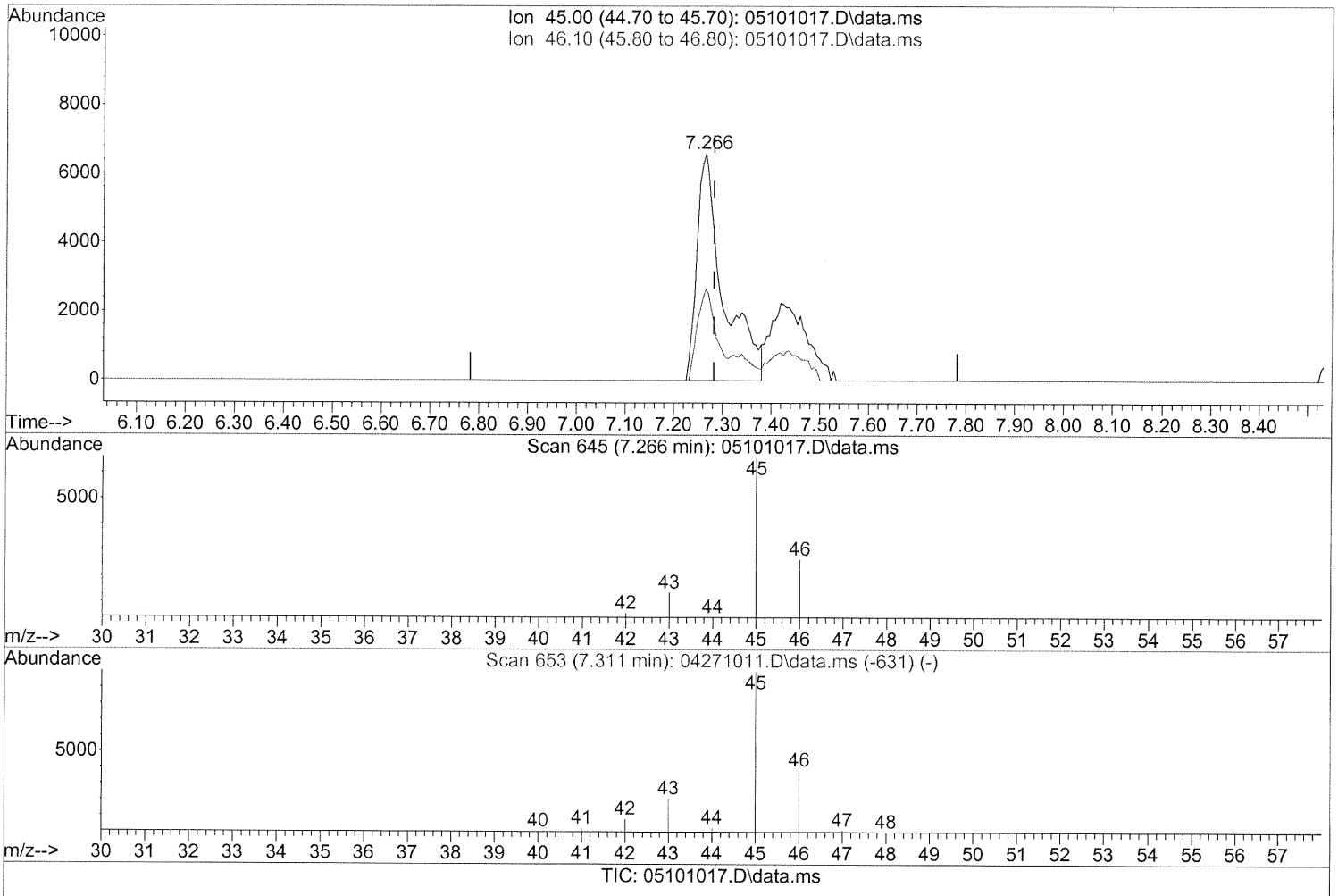
Ion	Ratio	Lower	Upper
43	100		
58	57.3	33.3	73.3



Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101017.D
Acq On : 10 May 2010 23:35
Operator : WA
Sample : P1001603-005 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 11 03:53:44 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101017.D\data.ms

(10) Ethanol (T)

7.266min (-0.017) 1.97ng

response 24669

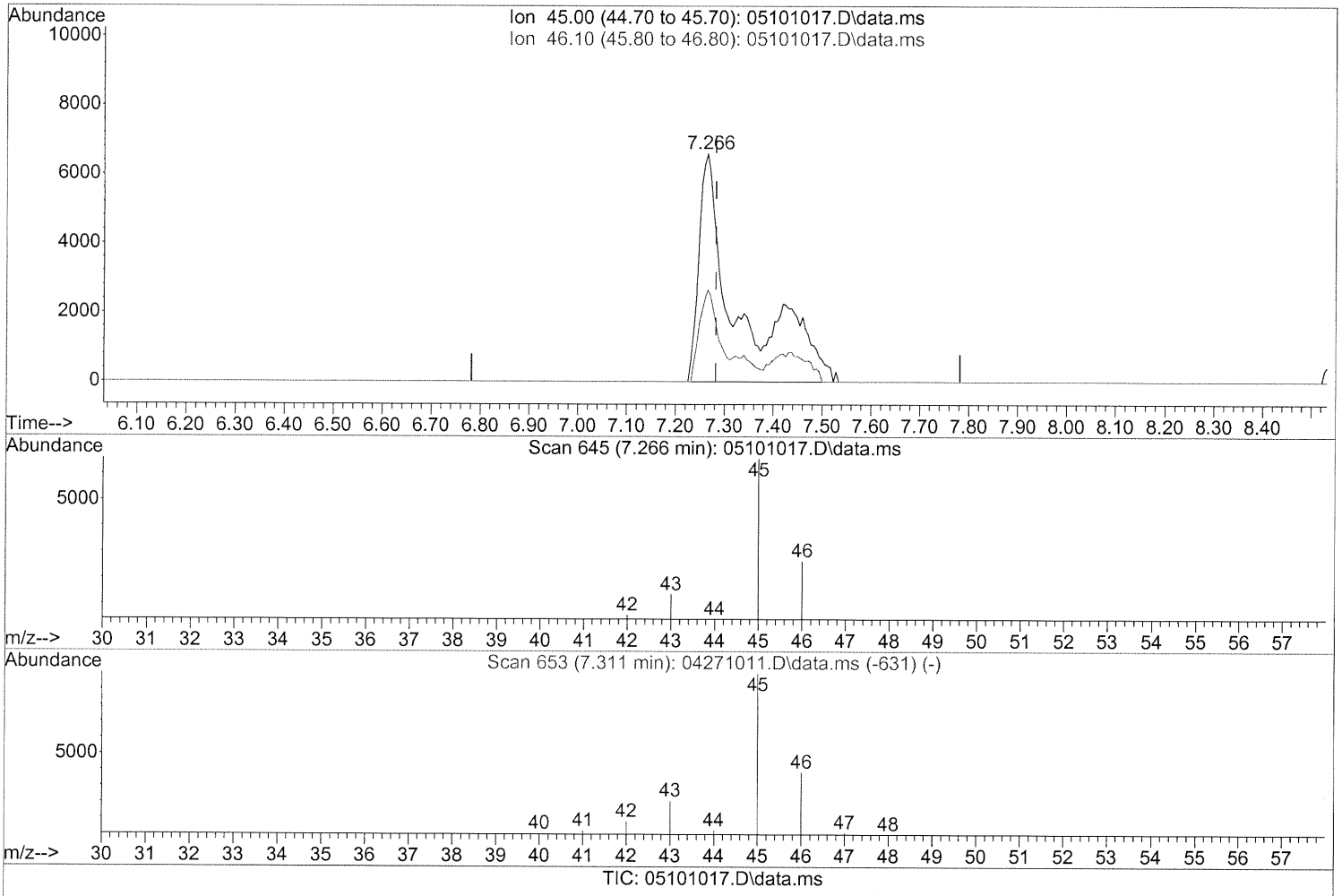
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.32
0.00	0.00	0.00
0.00	0.00	0.00

sp

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101017.D
Acq On : 10 May 2010 23:35
Operator : WA
Sample : P1001603-005 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 11 03:53:44 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101017.D\data.ms

(10) Ethanol (T)

7.266min (-0.017) 2.90ng m

response 36303

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	26.04
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

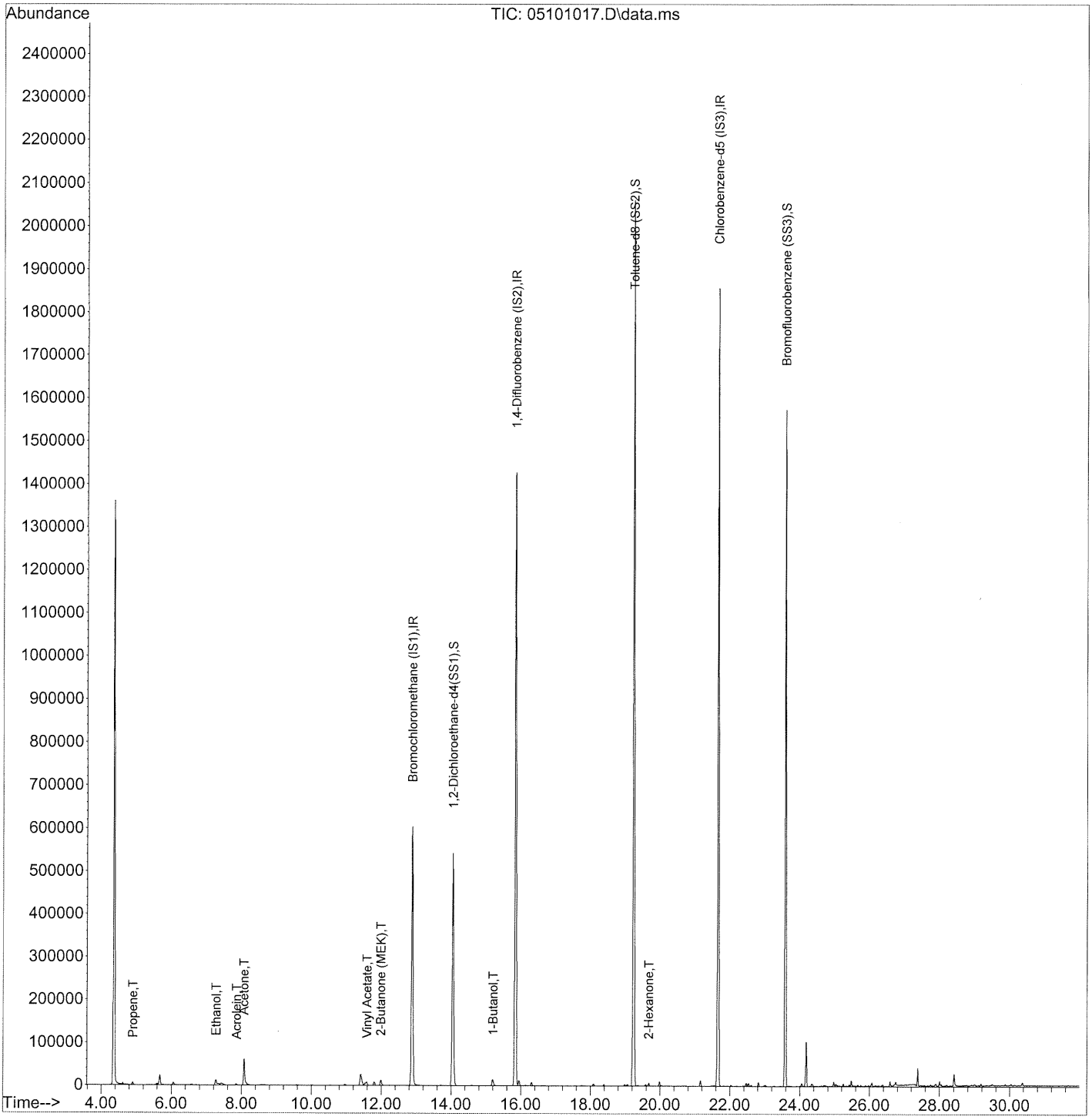
MM 5/17/10

C 5/18/10

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101017.D
Acq On : 10 May 2010 23:35
Operator : WA
Sample : P1001603-005 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 11 03:53:44 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101017.D
Acq On : 10 May 2010 23:35
Operator : WA
Sample : P1001603-005 (1000mL)
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Quant Time: May 11 03:53:44 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	363030	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1764660	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	732486	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	552263	25.206	ng		0.00
Spiked Amount 25.000			Recovery = 100.84%				
57) Toluene-d8 (SS2)	19.23	98	1851207	25.058	ng		0.00
Spiked Amount 25.000			Recovery = 100.24%				
73) Bromofluorobenzene (SS3)	23.58	174	624314	24.125	ng		0.00
Spiked Amount 25.000			Recovery = 96.52%				
Target Compounds							Qvalue
2) Propene	4.90	42	2200	0.107	ng		87
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	7.27	45	24669	1.969	ng		100
11) Acetonitrile	0.00	41	0	N.D.			
12) Acrolein	7.85	56	3451	0.279	ng		98
13) Acetone	8.07	58	40147	2.508	ng	#	67
14) Trichlorofluoromethane	0.00	101	0	N.D.			
15) 2-Propanol (Isopropanol)	8.55	45	4134	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	283	N.D.			
19) Methylene Chloride	9.59	84	409	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	10.02	76	1314	N.D.			
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	11.59	86	2115	0.380	ng	#	1
27) 2-Butanone (MEK)	11.98	72	6491	0.441	ng	#	73
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	0.00	87	0	N.D.			
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

Data Path : J:\MS09\Data\2010_05\10\
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Operator : WA
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ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 11 03:53:44 2010
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	15.20	56	14383	0.676	ng	#	78
41) Benzene	15.31	78	787	N.D.			
42) Carbon Tetrachloride	0.00	117	0	N.D.			
43) Cyclohexane	15.83	84	985	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	18.09	58	1492	N.D.			
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.			
58) Toluene	19.37	91	2359	N.D.			
59) 2-Hexanone	19.67	43	5859	0.133	ng		94
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	22.19	91	450	N.D.			
67) m- & p-Xylenes	22.39	91	1614	N.D.			
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	23.01	91	796	N.D.			
71) n-Nonane	23.27	43	513	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	23.58	105	699	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	24.38	91	302	N.D.			
77) 3-Ethyltoluene	24.49	105	664	N.D.			
78) 4-Ethyltoluene	24.49	105	664	N.D.			
79) 1,3,5-Trimethylbenzene	24.55	105	92	N.D.			

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101017.D
Acq On : 10 May 2010 23:35
Operator : WA
Sample : P1001603-005 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 11 03:53:44 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	24.88	105	311	N.D.		
82) 1,2,4-Trimethylbenzene	25.15	105	1094	N.D.		
83) n-Decane	25.25	57	2529	N.D.		
84) Benzyl Chloride	25.48	91	406	N.D.		
85) 1,3-Dichlorobenzene	25.42	146	1930	N.D.		
86) 1,4-Dichlorobenzene	25.42	146	1930	N.D.		
87) sec-Butylbenzene	25.49	105	479	N.D.		
88) 4-Isopropyltoluene (p-...	25.66	119	650	N.D.		
89) 1,2,3-Trimethylbenzene	25.66	105	451	N.D.		
90) 1,2-Dichlorobenzene	25.42	146	1930	N.D.		
91) d-Limonene	25.84	68	86	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.76	57	2864	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	28.05	128	4921	N.D.		
96) n-Dodecane	28.01	57	3969	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.60	55	1798	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	26.16	91	1607	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110305**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00076

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**5.7**	0.79	**3.3**	0.46	
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.79	**0.41**	0.16	
74-87-3	**Chloromethane**	**0.59**	0.32	**0.29**	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.79	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.062	
106-99-0	1,3-Butadiene	ND	0.32	ND	0.14	
74-83-9	Bromomethane	ND	0.16	ND	0.041	
75-00-3	Chloroethane	ND	0.16	ND	0.060	
64-17-5	**Ethanol**	**2,200**	79	**1,200**	42	**D**
75-05-8	**Acetonitrile**	**1.1**	0.79	**0.68**	0.47	
107-02-8	**Acrolein**	**4.0**	3.2	**1.8**	1.4	
67-64-1	**Acetone**	**130**	7.9	**56**	3.3	
75-69-4	**Trichlorofluoromethane**	**1.1**	0.16	**0.20**	0.028	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**17**	1.6	**6.8**	0.64	
107-13-1	Acrylonitrile	ND	0.79	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.040	
75-09-2	Methylene Chloride	ND	0.79	ND	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.050	
76-13-1	**Trichlorotrifluoroethane**	**0.49**	0.16	**0.065**	0.021	
75-15-0	Carbon Disulfide	ND	7.9	ND	2.5	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.040	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.044	
108-05-4	Vinyl Acetate	ND	7.9	ND	2.2	
78-93-3	2-Butanone (MEK)	ND	7.9	ND	2.7	

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: Re Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110305**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00076

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.040	
141-78-6	**Ethyl Acetate**	**4.8**	0.79	**1.3**	0.22	
110-54-3	**n-Hexane**	**2.7**	0.79	**0.78**	0.22	
67-66-3	**Chloroform**	**3.9**	0.16	**0.80**	0.032	
109-99-9	**Tetrahydrofuran (THF)**	**2.0**	0.79	**0.67**	0.27	
107-06-2	**1,2-Dichloroethane**	**13**	0.16	**3.1**	0.039	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.029	
71-43-2	**Benzene**	**1.6**	0.16	**0.51**	0.049	
56-23-5	**Carbon Tetrachloride**	**0.46**	0.16	**0.073**	0.025	
110-82-7	**Cyclohexane**	**1.1**	0.79	**0.32**	0.23	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.034	
75-27-4	**Bromodichloromethane**	**0.62**	0.16	**0.092**	0.024	
79-01-6	**Trichloroethene**	**1.4**	0.16	**0.27**	0.029	
123-91-1	1,4-Dioxane	ND	0.79	ND	0.22	
80-62-6	Methyl Methacrylate	ND	0.79	ND	0.19	
142-82-5	**n-Heptane**	**23**	0.79	**5.5**	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	ND	0.17	
108-10-1	**4-Methyl-2-pentanone**	**0.92**	0.79	**0.22**	0.19	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.029	
108-88-3	**Toluene**	**53**	0.79	**14**	0.21	
591-78-6	2-Hexanone	ND	0.79	ND	0.19	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.021	
123-86-4	**n-Butyl Acetate**	**3.5**	0.79	**0.74**	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: Rv Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110305**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00076

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	**n-Octane**	**69**	0.79	**15**	0.17	
127-18-4	**Tetrachloroethene**	**6.2**	0.16	**0.92**	0.023	
108-90-7	Chlorobenzene	ND	0.16	ND	0.034	
100-41-4	**Ethylbenzene**	**2.1**	0.79	**0.48**	0.18	
179601-23-1	**m,p-Xylenes**	**6.1**	0.79	**1.4**	0.18	
75-25-2	Bromoform	ND	0.79	ND	0.076	
100-42-5	**Styrene**	**1.1**	0.79	**0.26**	0.19	
95-47-6	**o-Xylene**	**2.5**	0.79	**0.57**	0.18	
111-84-2	**n-Nonane**	**140**	0.79	**26**	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	ND	0.79	ND	0.16	
80-56-8	**alpha-Pinene**	**57**	0.79	**10**	0.14	
103-65-1	n-Propylbenzene	ND	0.79	ND	0.16	
622-96-8	**4-Ethyltoluene**	**1.1**	0.79	**0.22**	0.16	
108-67-8	**1,3,5-Trimethylbenzene**	**1.3**	0.79	**0.27**	0.16	
95-63-6	**1,2,4-Trimethylbenzene**	**4.3**	0.79	**0.88**	0.16	
100-44-7	Benzyl Chloride	ND	0.79	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.026	
106-46-7	**1,4-Dichlorobenzene**	**0.49**	0.16	**0.081**	0.026	
95-50-1	**1,2-Dichlorobenzene**	**0.53**	0.16	**0.088**	0.026	
5989-27-5	**d-Limonene**	**120**	0.79	**21**	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	ND	0.082	
120-82-1	1,2,4-Trichlorobenzene	ND	0.79	ND	0.11	
91-20-3	Naphthalene	ND	0.79	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.79	ND	0.074	

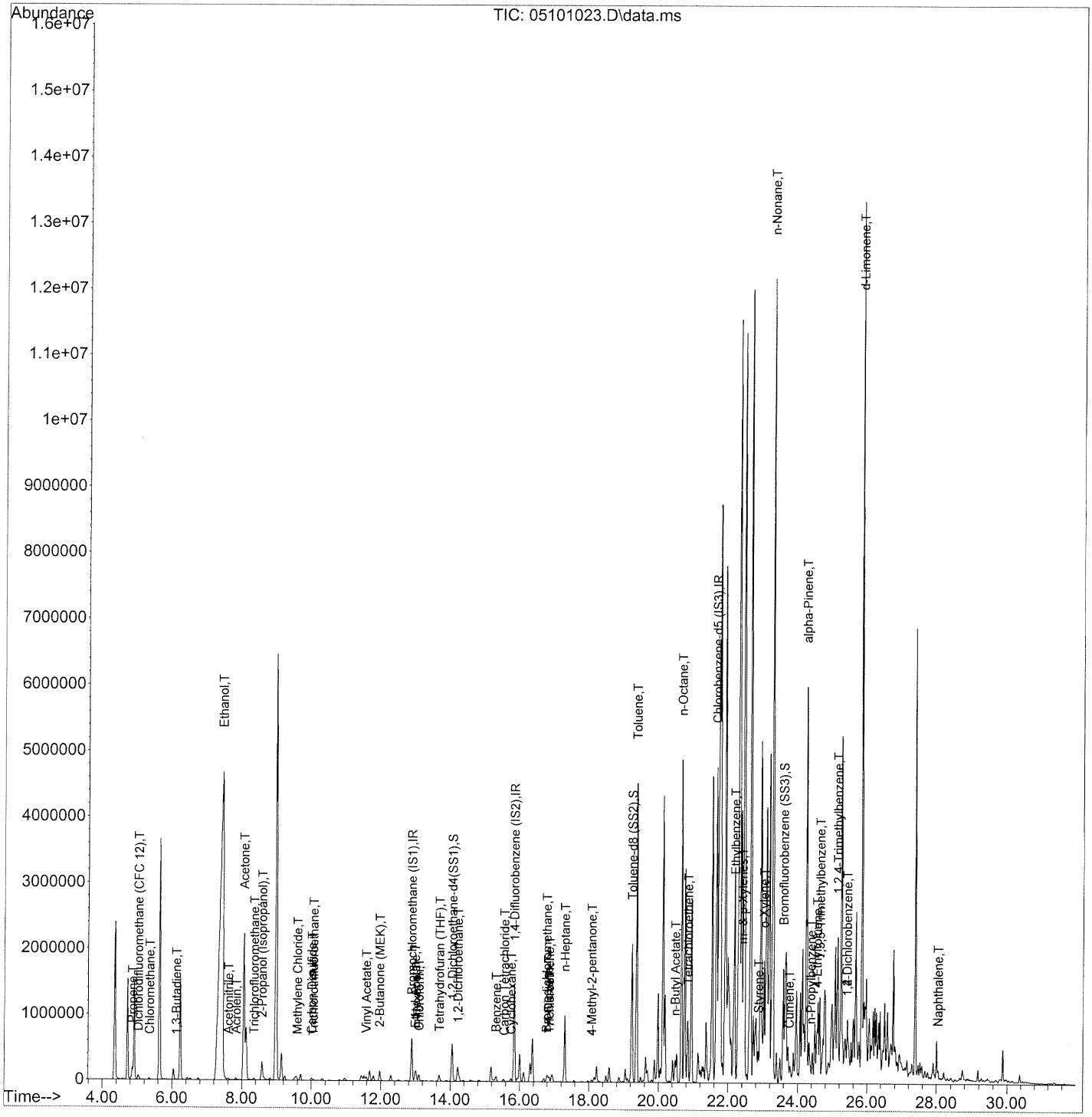
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 15 17:28:57 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	380489	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1803328	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	945771	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	566510	24.669	ng		0.00
Spiked Amount 25.000			Recovery =	98.68%			✓
57) Toluene-d8 (SS2)	19.24	98	1906380	19.985	ng		0.00
Spiked Amount 25.000			Recovery =	79.96%			✓
73) Bromofluorobenzene (SS3)	23.59	174	685061	20.503	ng		0.00
Spiked Amount 25.000			Recovery =	82.00%			✓
Target Compounds							Qvalue
2) Propene	4.86	42	77574m	3.599	ng		
3) Dichlorodifluoromethan...	5.03	85	64797	1.278	ng		99
4) Chloromethane	5.36	50	11480	0.374	ng		98
7) 1,3-Butadiene	6.12	54	3694	0.147	ng		93
10) Ethanol	7.44	45	18616455m	1417.901	ng	su dil	
11) Acetonitrile	7.61	41	23083	0.726	ng		98
12) Acrolein	7.83	56	33070	2.554	ng		99
13) Acetone	8.05	58	1422220	84.769	ng		98
14) Trichlorofluoromethane	8.35	101	32715	0.709	ng		100
15) 2-Propanol (Isopropanol)	8.58	45	517130	10.579	ng		100
19) Methylene Chloride	9.60	84	4716	0.187	ng	#	74
21) Trichlorotrifluoroethane	10.06	151	7245	0.313	ng	#	78
22) Carbon Disulfide	10.01	76	72766	0.893	ng		100
26) Vinyl Acetate	11.58	86	19517	3.343	ng	#	1
27) 2-Butanone (MEK)	11.97	72	73240	4.753	ng	#	67
30) Ethyl Acetate	12.99	61	24624	3.009	ng		87
31) n-Hexane	13.02	57	67795	1.738	ng	#	94
32) Chloroform	13.10	83	102014	2.461	ng		99
34) Tetrahydrofuran (THF)	13.69	72	18604	1.243	ng	#	61
36) 1,2-Dichloroethane	14.22	62	249058	8.005	ng		100
41) Benzene	15.32	78	106423	1.037	ng		98
42) Carbon Tetrachloride	15.55	117	9119	0.289	ng		96
43) Cyclohexane	15.75	84	26686	0.698	ng	#	78
46) Bromodichloromethane	16.78	83	12038m	0.391	ng		
47) Trichloroethene	16.86	130	26077	0.910	ng		100
48) 1,4-Dioxane	16.83	88	3712	0.185	ng		89
51) n-Heptane	17.30	71	349682	14.318	ng		88
53) 4-Methyl-2-pentanone	18.08	58	11295	0.581	ng		88
58) Toluene	19.37	91	4523717	33.626	ng		98
62) n-Butyl Acetate	20.48	43	145029	2.231	ng		76

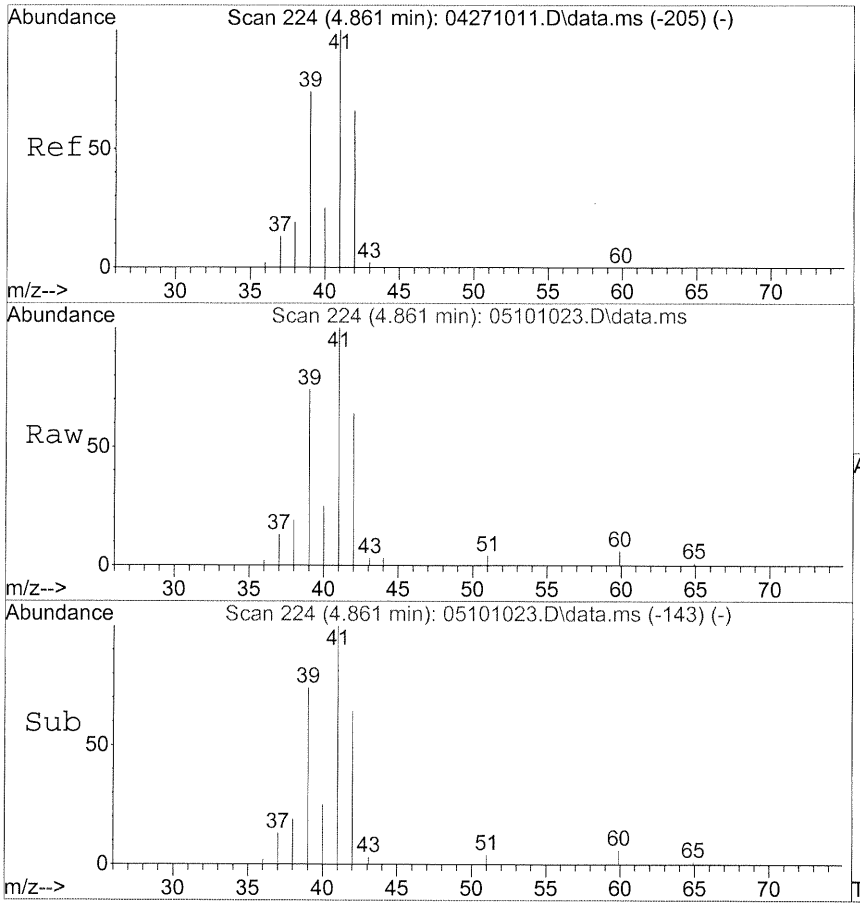
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Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
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Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
63) n-Octane	20.66	57	1052943	43.617	ng	#	80
64) Tetrachloroethene	20.85	166	165922	3.947	ng		99
66) Ethylbenzene	22.19	91	193715	1.314	ng		100
67) m- & p-Xylenes	22.40	91	449568	3.859	ng		95
69) Styrene	22.88	104	63657	0.694	ng		96
70) o-Xylene	23.03	91	185590	1.562	ng		96
71) n-Nonane	23.28	43	4528866	87.404	ng		85
74) Cumene	23.76	105	24845	0.153	ng		96
75) alpha-Pinene	24.25	93	2733676	36.297	ng		94
76) n-Propylbenzene	24.38	91	69391	0.369	ng		95
78) 4-Ethyltoluene	24.56	105	101456	0.677	ng		97
79) 1,3,5-Trimethylbenzene	24.64	105	103916	0.850	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	346454	2.741	ng		97
86) 1,4-Dichlorobenzene	25.42	146	24553	0.307	ng		98
90) 1,2-Dichlorobenzene	25.42	146	24553	0.335	ng		98
91) d-Limonene	25.84	68	3279401	74.722	ng		77
95) Naphthalene	28.05	128	73756	0.460	ng		94

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

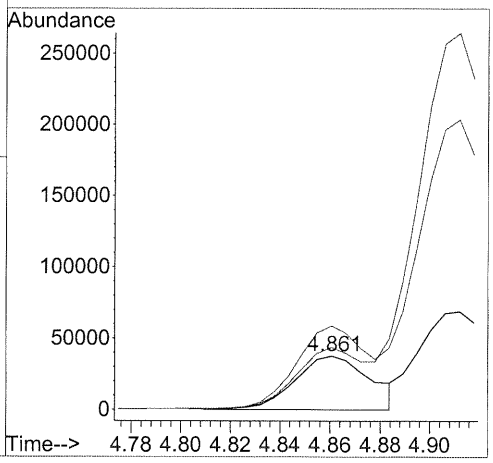
DA 5/17/10

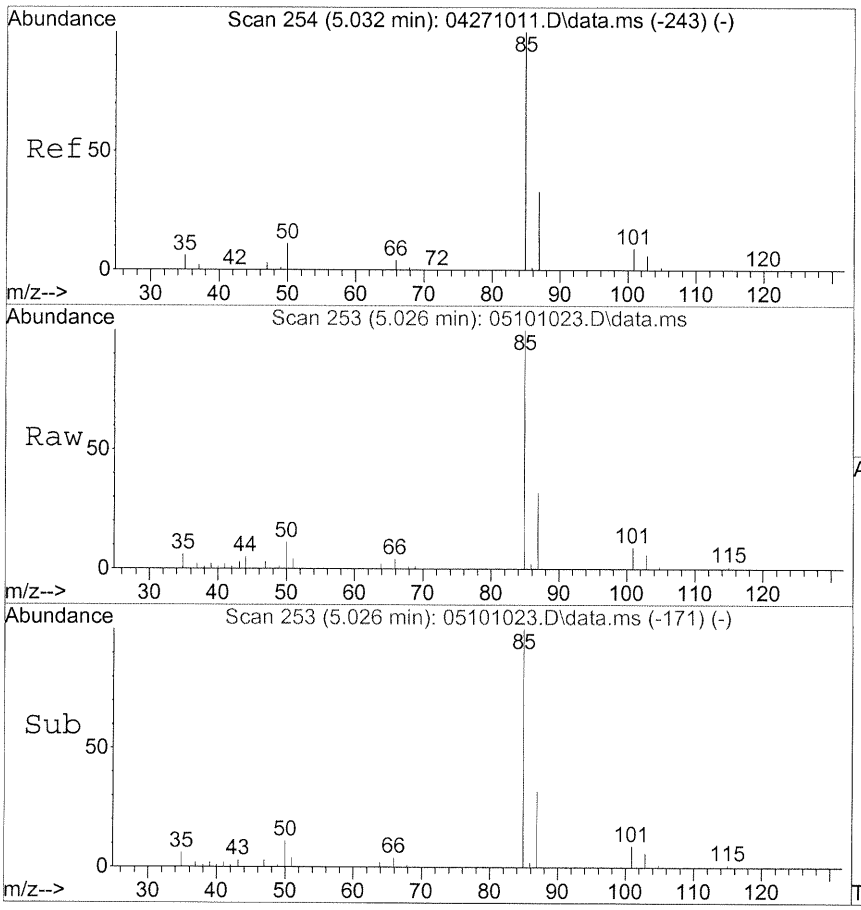


#2
Propene
Concen: 3.60 ng m
RT: 4.86 min Scan# 224
Delta R.T. -0.040 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 42 Resp: 77574

Ion	Ratio	Lower	Upper
42	100		
39	754.3	92.2	132.2#
41	580.4	133.9	173.9#

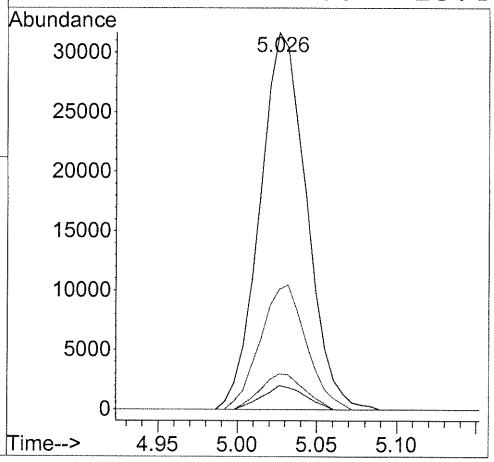


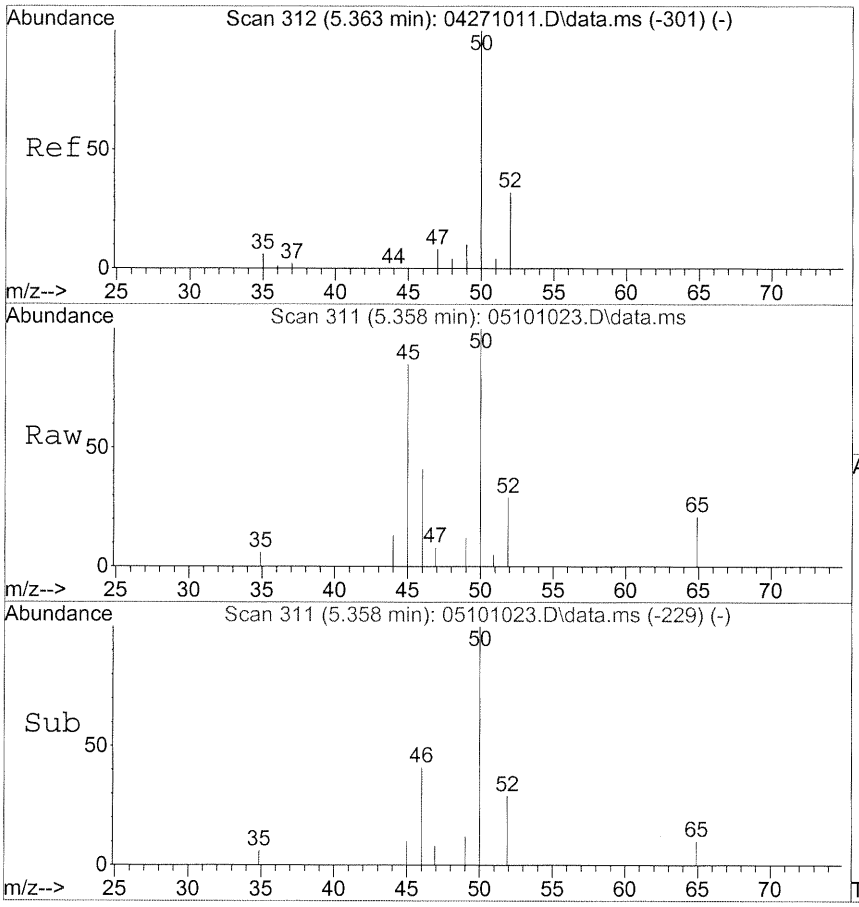


#3
Dichlorodifluoromethane (CFC
Concen: 1.28 ng
RT: 5.03 min Scan# 253
Delta R.T. -0.034 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 85 Resp: 64797

Ion	Ratio	Lower	Upper
85	100		
87	32.6	12.0	52.0
101	8.8	0.0	28.5
103	5.7	0.0	25.4

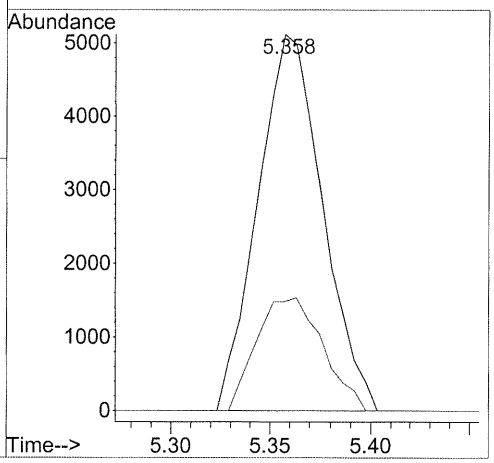


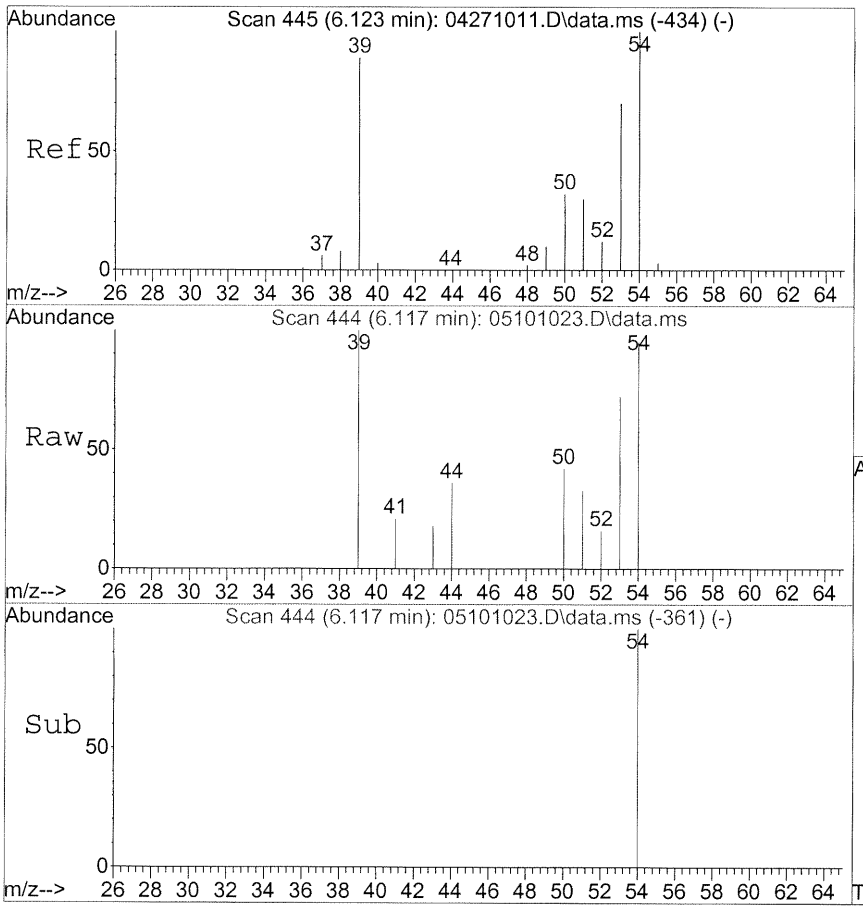


#4
Chloromethane
Concen: 0.37 ng
RT: 5.36 min Scan# 311
Delta R.T. -0.034 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 50 Resp: 11480

Ion	Ratio	Lower	Upper
50	100		
52	30.8	12.1	52.1

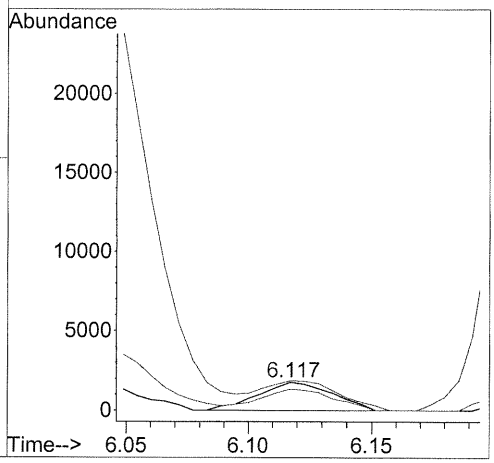


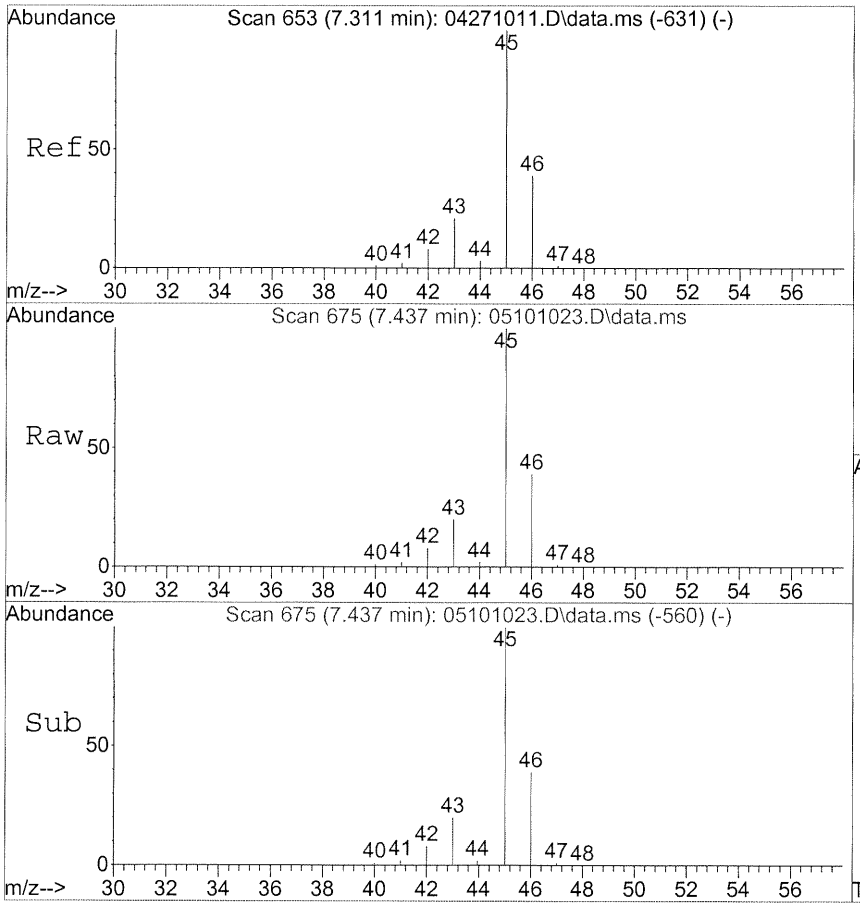


#7
1,3-Butadiene
Concen: 0.15 ng
RT: 6.12 min Scan# 444
Delta R.T. -0.028 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 54 Resp: 3694

Ion	Ratio	Lower	Upper
54	100		
39	113.6	85.1	125.1
53	74.0	50.7	90.7

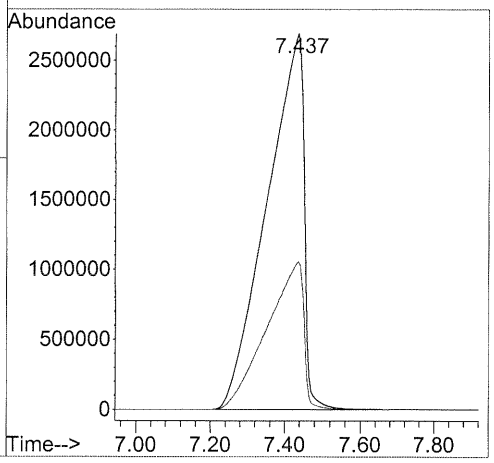


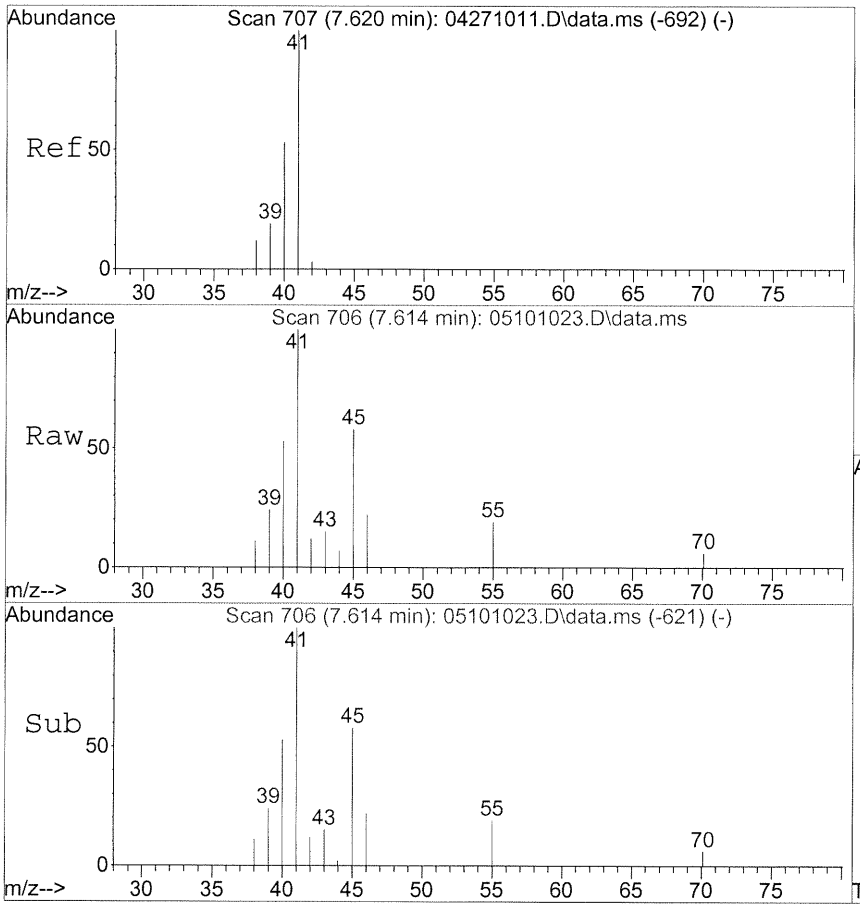


#10
Ethanol
Concen: 1417.90 ng m
RT: 7.44 min Scan# 675
Delta R.T. 0.154 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 45 Resp:18616455

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.4	58.4#

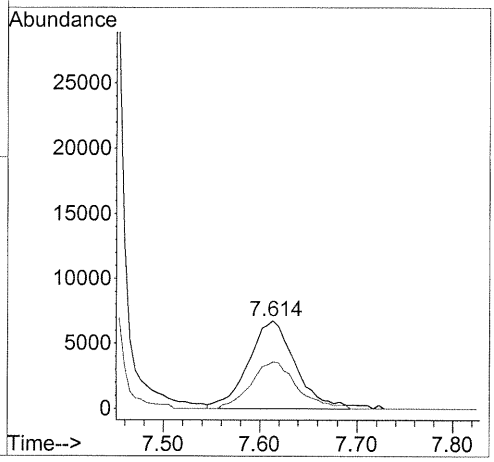


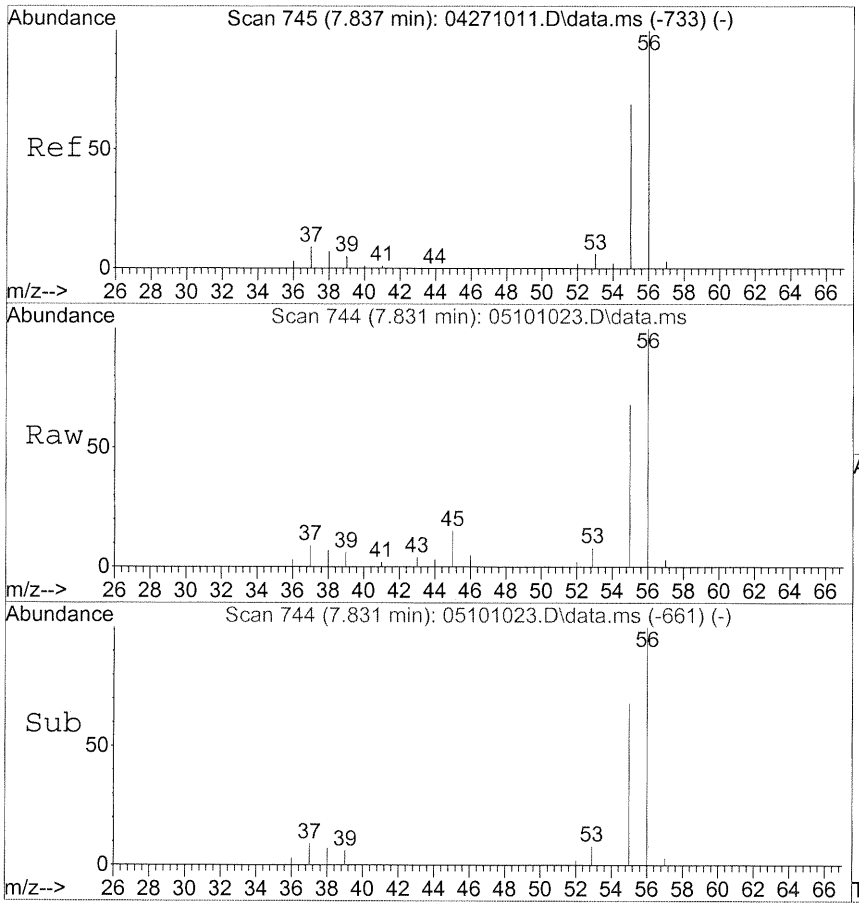


#11
Acetonitrile
Concen: 0.73 ng
RT: 7.61 min Scan# 706
Delta R.T. -0.017 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 41 Resp: 23083

Ion	Ratio	Lower	Upper
41	100		
40	51.0	32.7	72.7

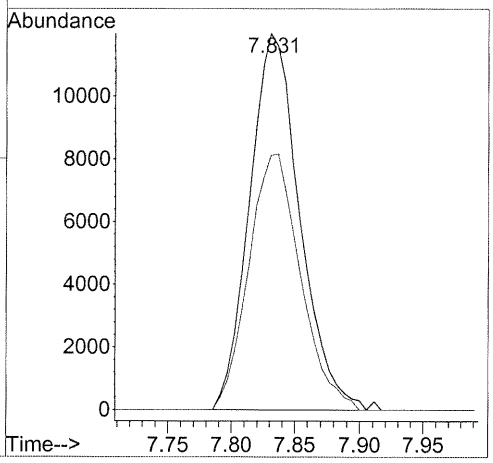


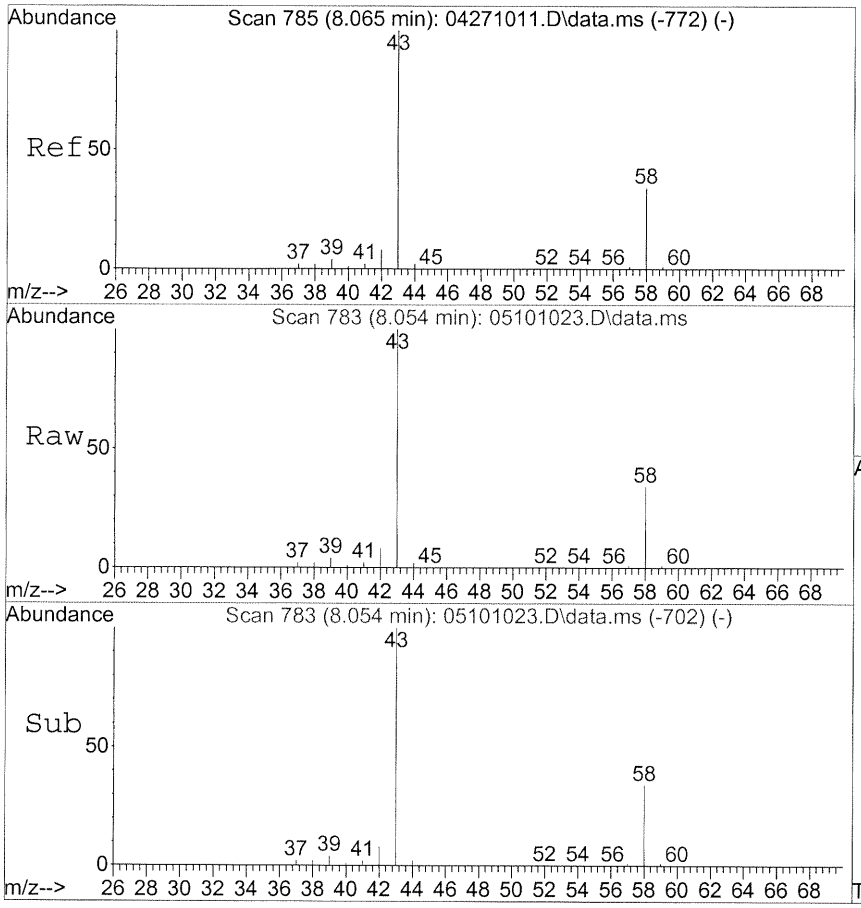


#12
Acrolein
Concen: 2.55 ng
RT: 7.83 min Scan# 744
Delta R.T. -0.028 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 56 Resp: 33070

Ion	Ratio	Lower	Upper
56	100		
55	69.9	50.5	90.5

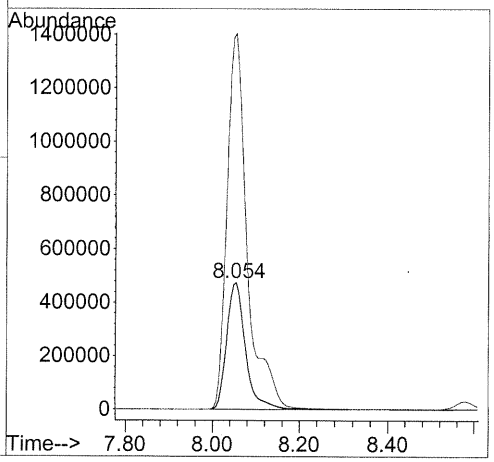


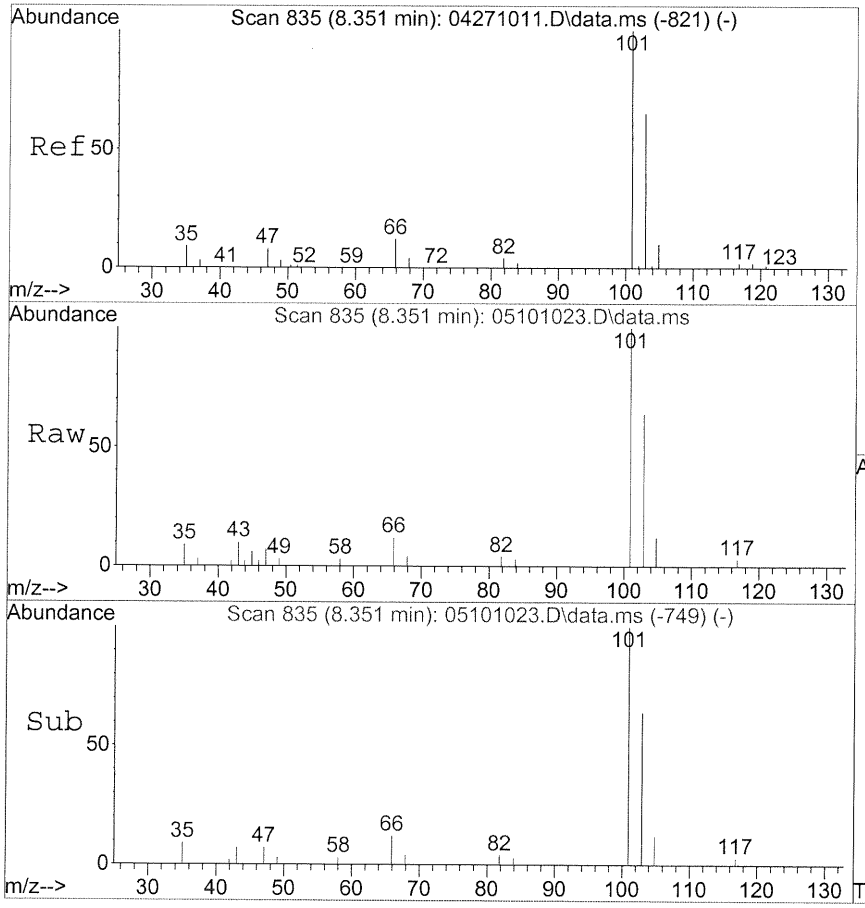


#13
Acetone
Concen: 84.77 ng
RT: 8.05 min Scan# 783
Delta R.T. -0.040 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 58 Resp: 1422220

Ion	Ratio	Lower	Upper
58	100		
43	319.8	295.0	355.0

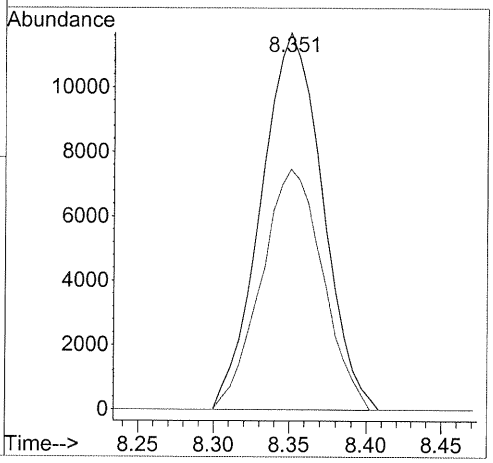


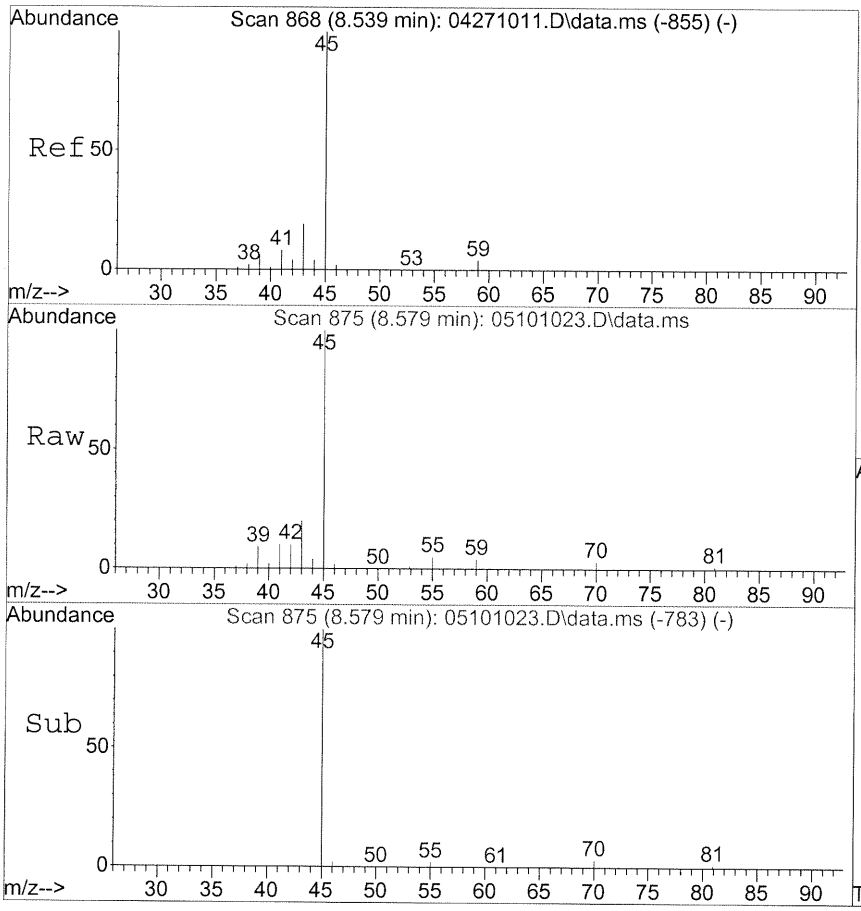


#14
Trichlorofluoromethane
Concen: 0.71 ng
RT: 8.35 min Scan# 835
Delta R.T. -0.011 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:101 Resp: 32715

Ion	Ratio	Lower	Upper
101	100		
103	63.7	43.8	83.8

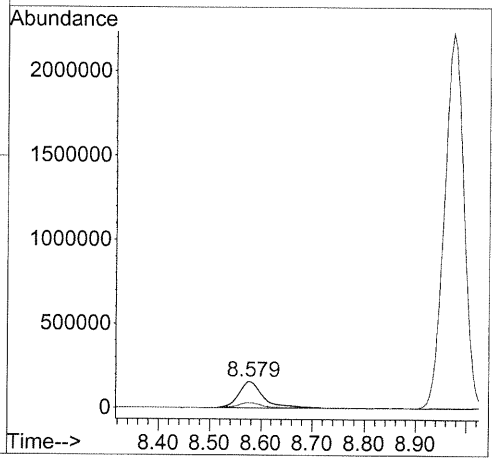


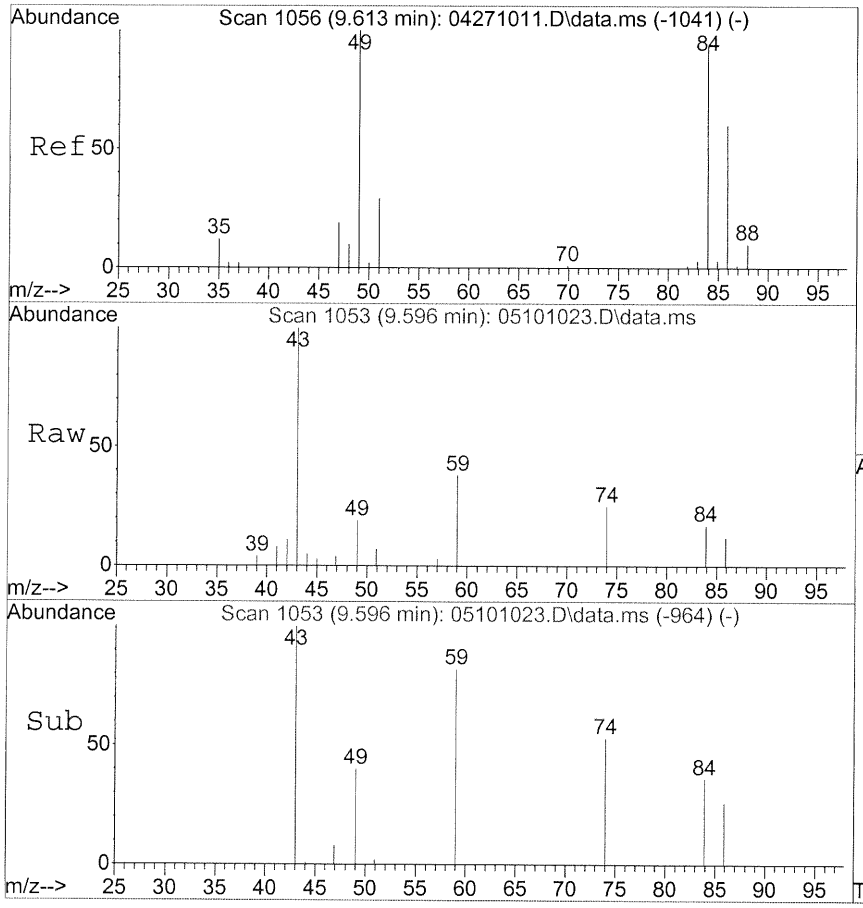


#15
2-Propanol (Isopropanol)
Concen: 10.58 ng
RT: 8.58 min Scan# 875
Delta R.T. 0.023 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 45 Resp: 517130

Ion	Ratio	Lower	Upper
45	100		
43	19.3	0.0	39.2

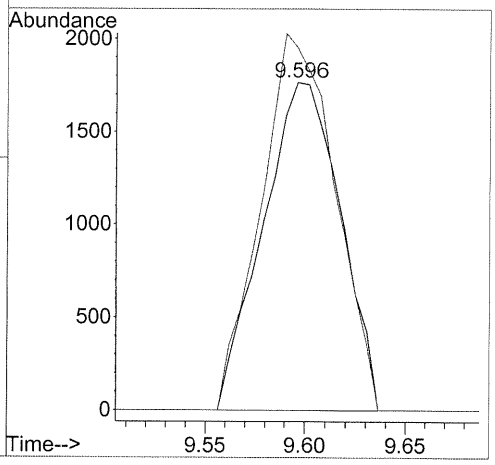


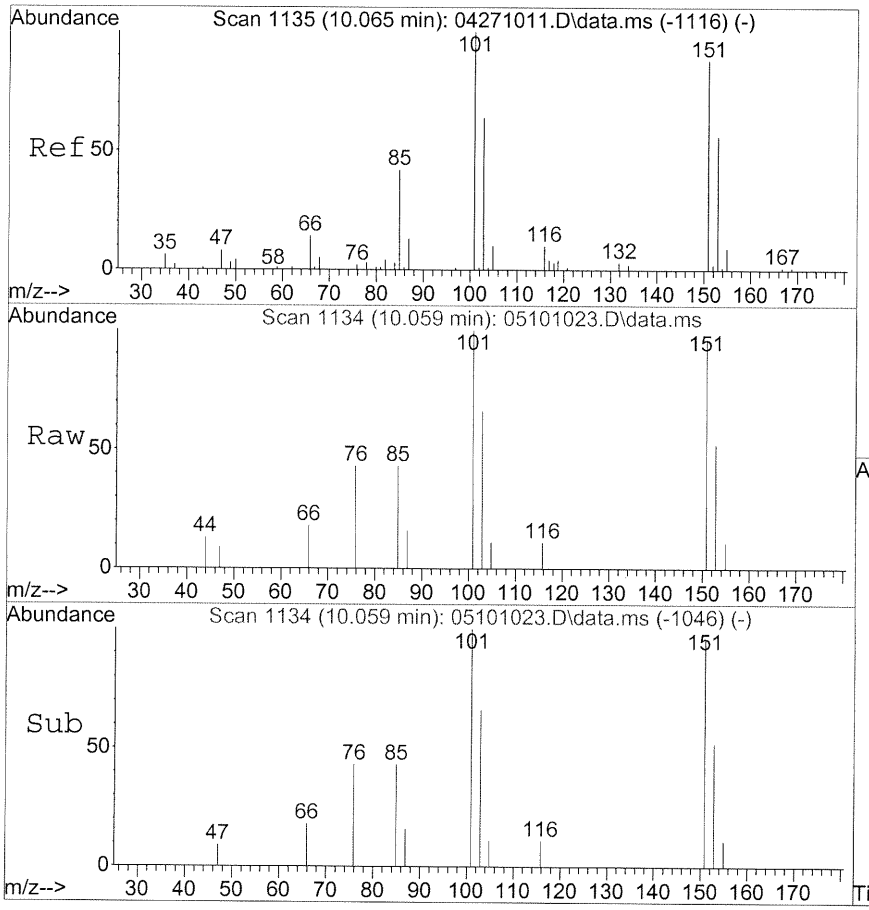


#19
Methylene Chloride
Concen: 0.19 ng
RT: 9.60 min Scan# 1053
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 84 Resp: 4716

Ion	Ratio	Lower	Upper
84	100		
49	110.2	116.6	166.6#

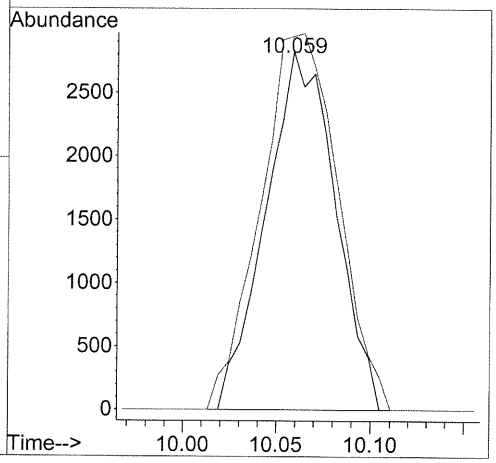


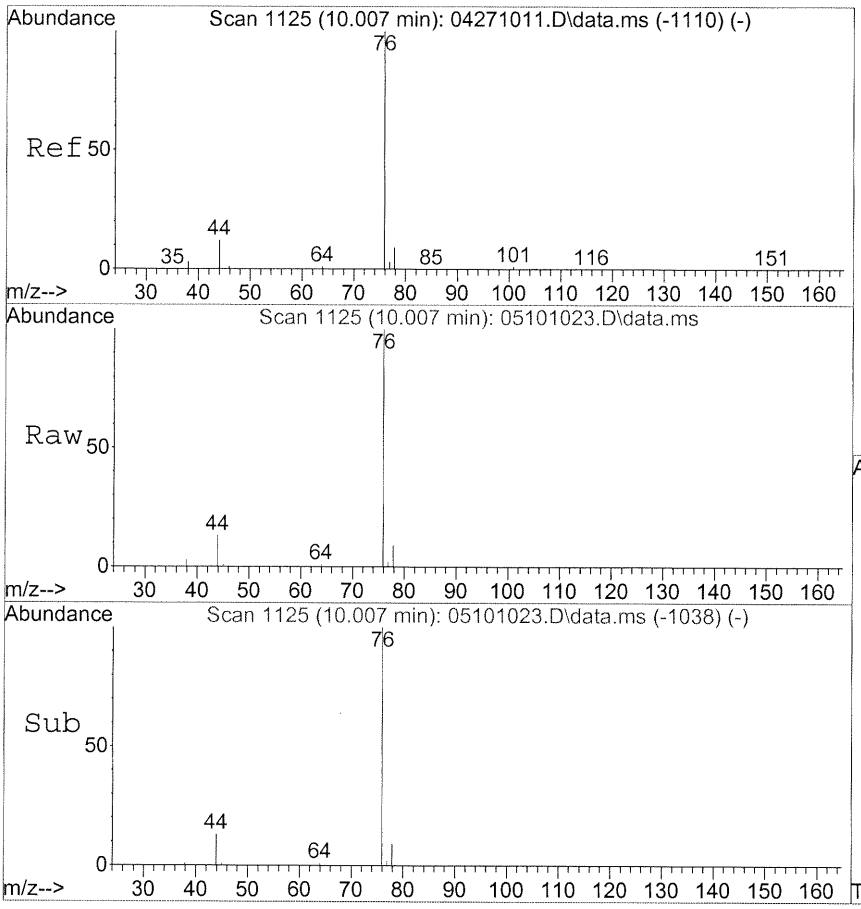


#21
Trichlorotrifluoroethane
Concen: 0.31 ng
RT: 10.06 min Scan# 1134
Delta R.T. 0.000 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:151 Resp: 7245

Ion	Ratio	Lower	Upper
151	100		
101	117.6	125.6	165.6#

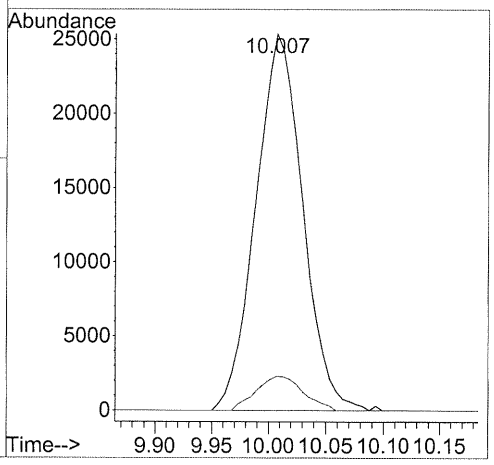


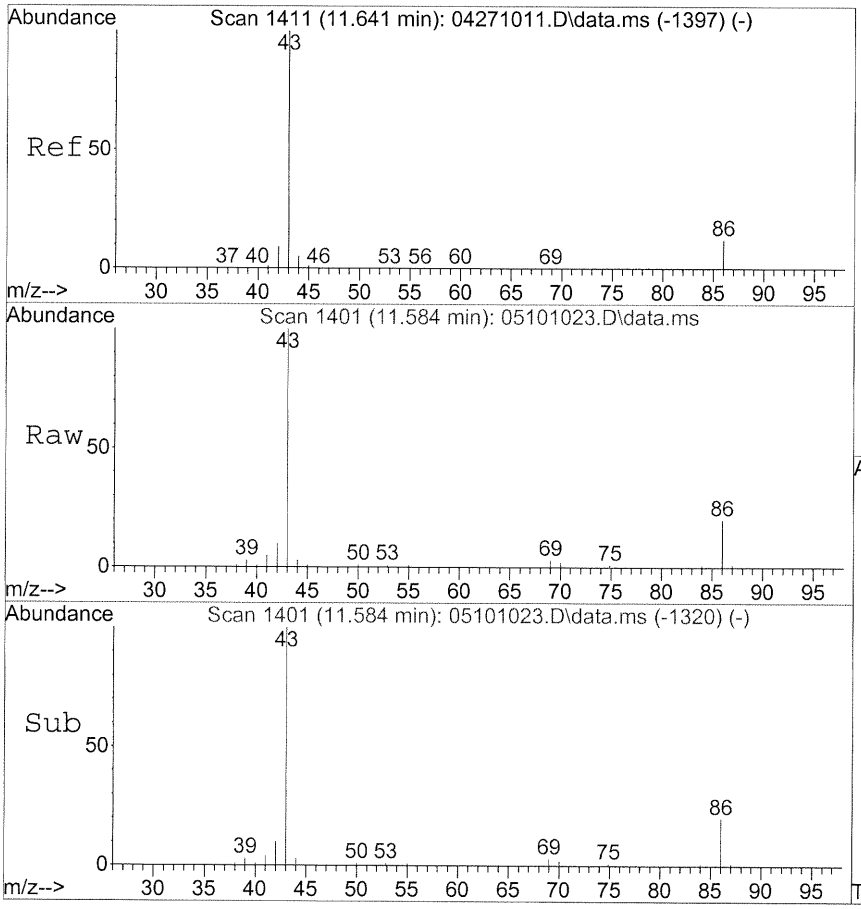


#22
Carbon Disulfide
Concen: 0.89 ng
RT: 10.01 min Scan# 1125
Delta R.T. -0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 76 Resp: 72766

Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	29.1

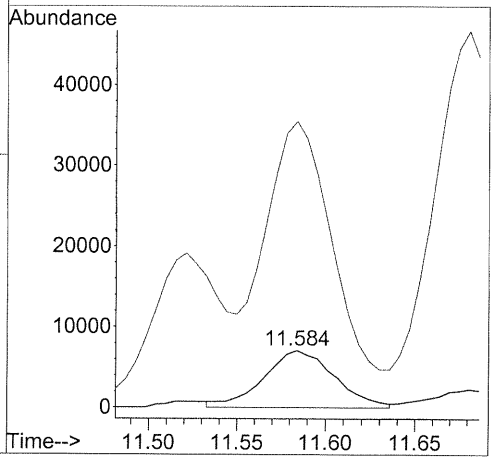


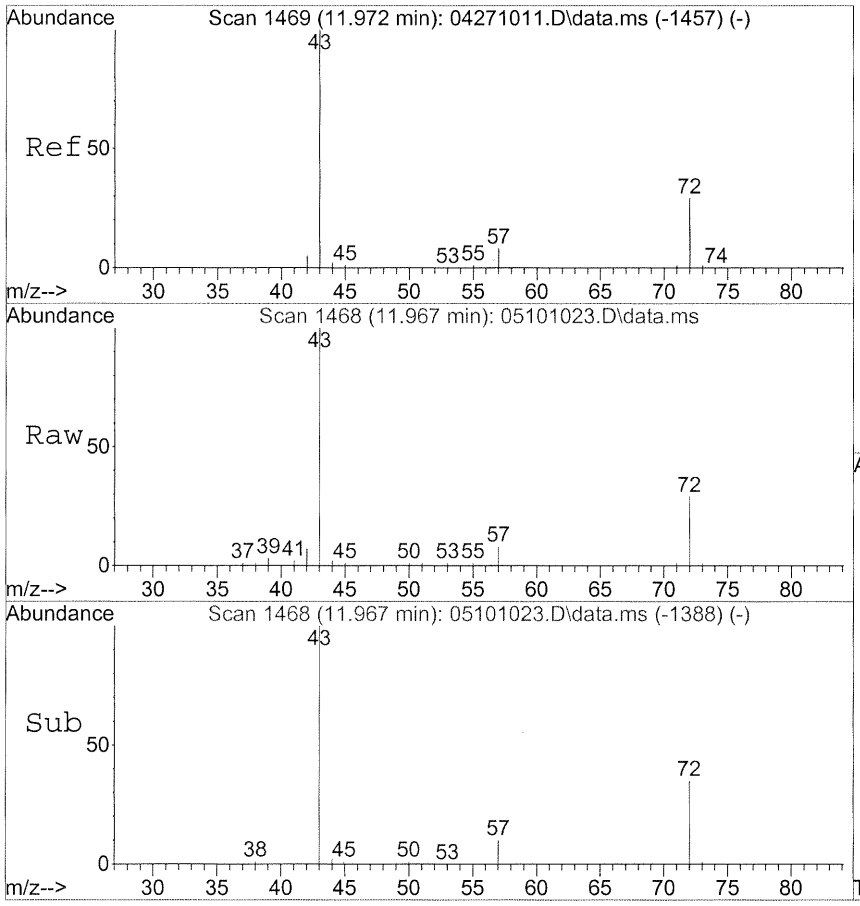


#26
Vinyl Acetate
Concen: 3.34 ng
RT: 11.58 min Scan# 1401
Delta R.T. -0.040 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 86 Resp: 19517

Ion	Ratio	Lower	Upper
86	100		
43	503.6	1285.5	1325.5#

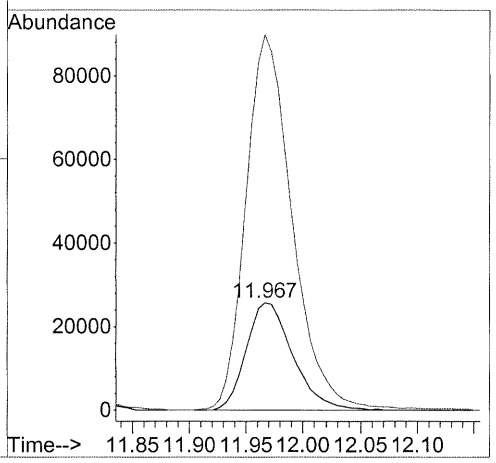


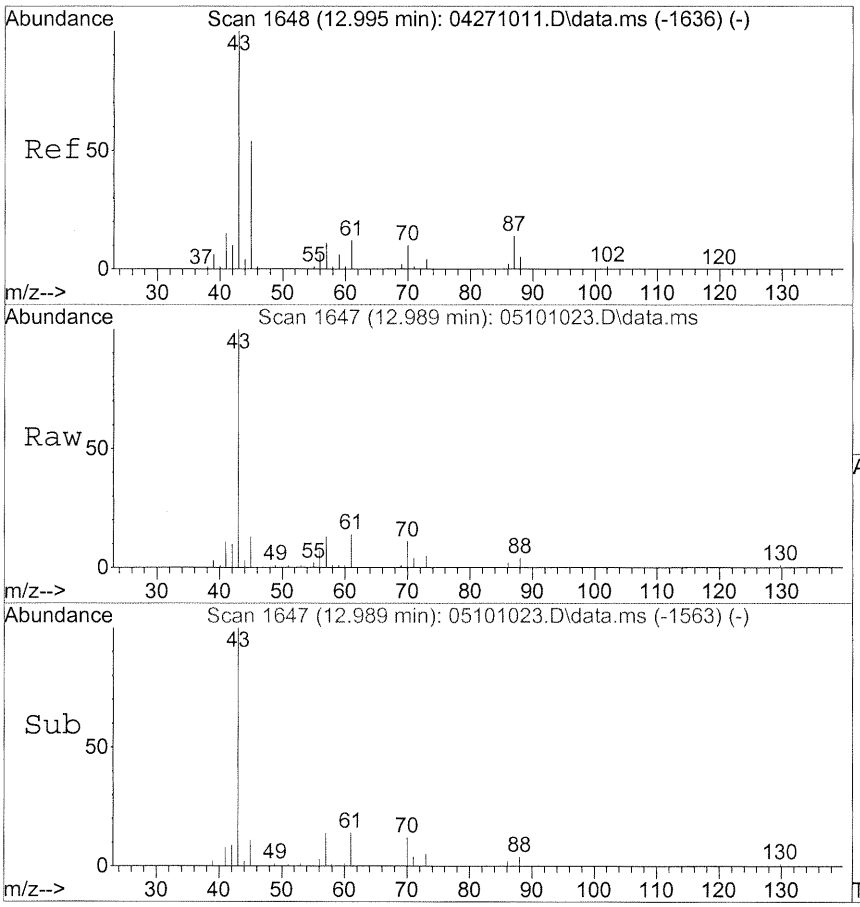


#27
2-Butanone (MEK)
Concen: 4.75 ng
RT: 11.97 min Scan# 1468
Delta R.T. -0.046 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 72 Resp: 73240

Ion	Ratio	Lower	Upper
72	100		
43	349.6	412.3	452.3#

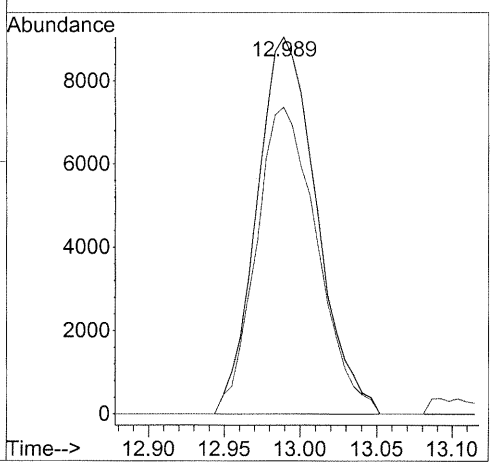


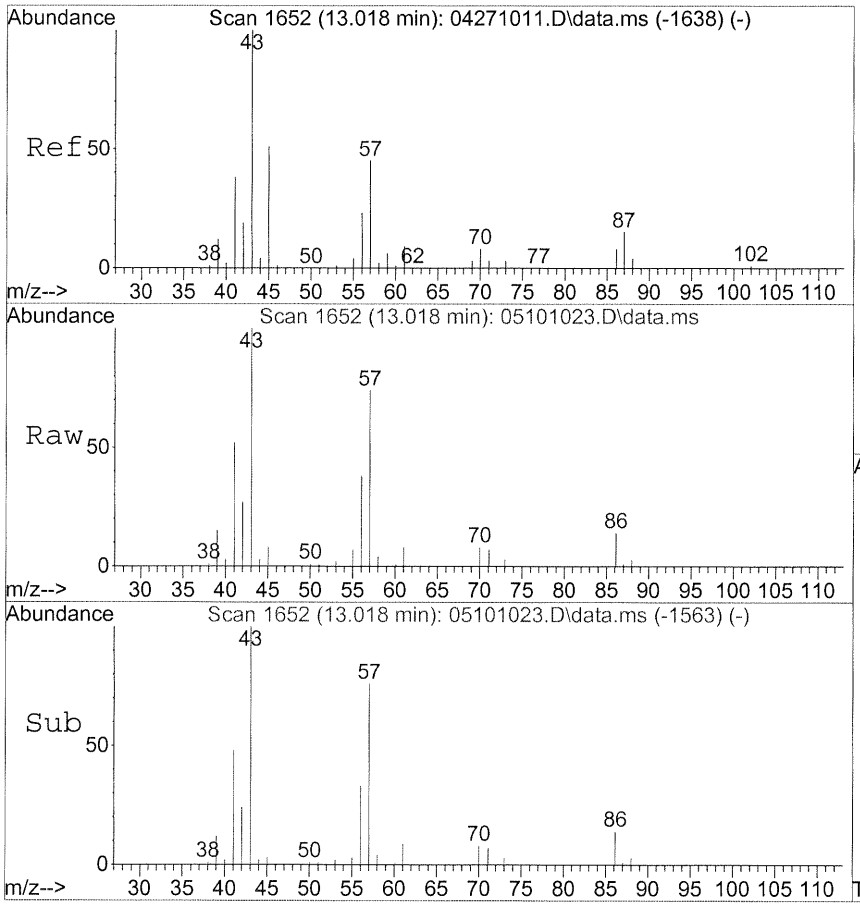


#30
Ethyl Acetate
Concen: 3.01 ng
RT: 12.99 min Scan# 1647
Delta R.T. -0.023 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 61 Resp: 24624

Ion	Ratio	Lower	Upper
61	100		
70	83.0	52.2	92.2

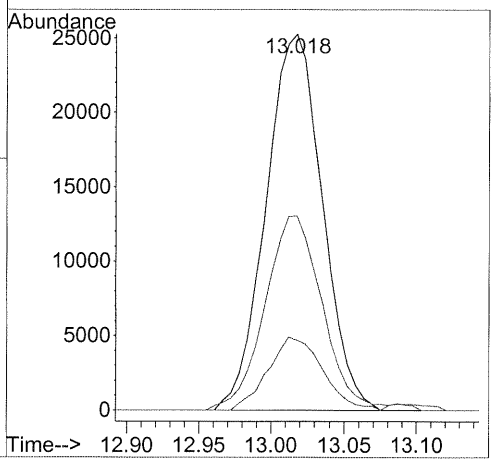


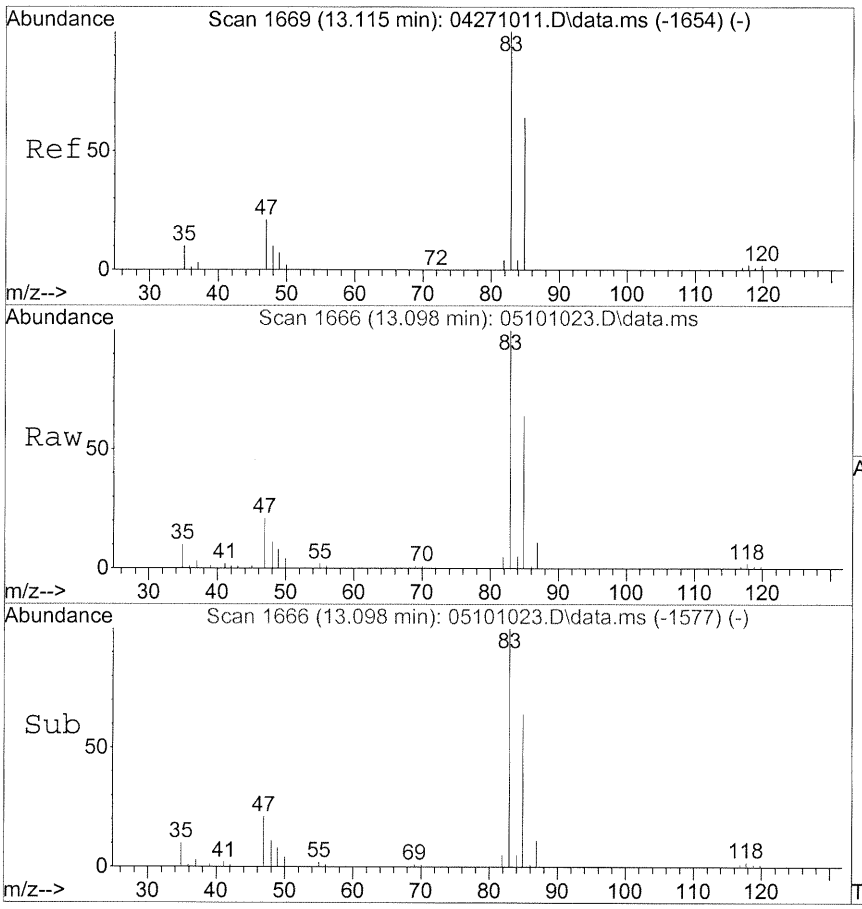


#31
n-Hexane
Concen: 1.74 ng
RT: 13.02 min Scan# 1652
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 57 Resp: 67795

Ion	Ratio	Lower	Upper
57	100		
56	52.9	40.0	60.0
86	18.7	11.5	17.3#

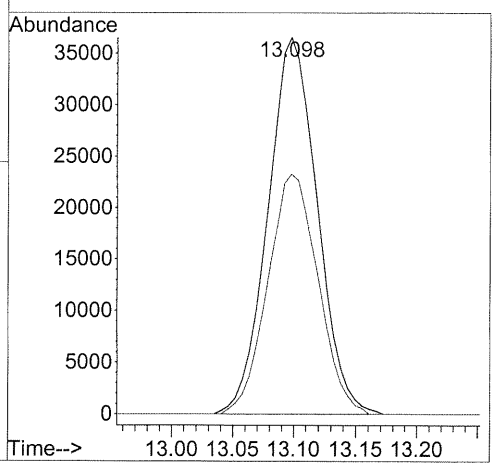


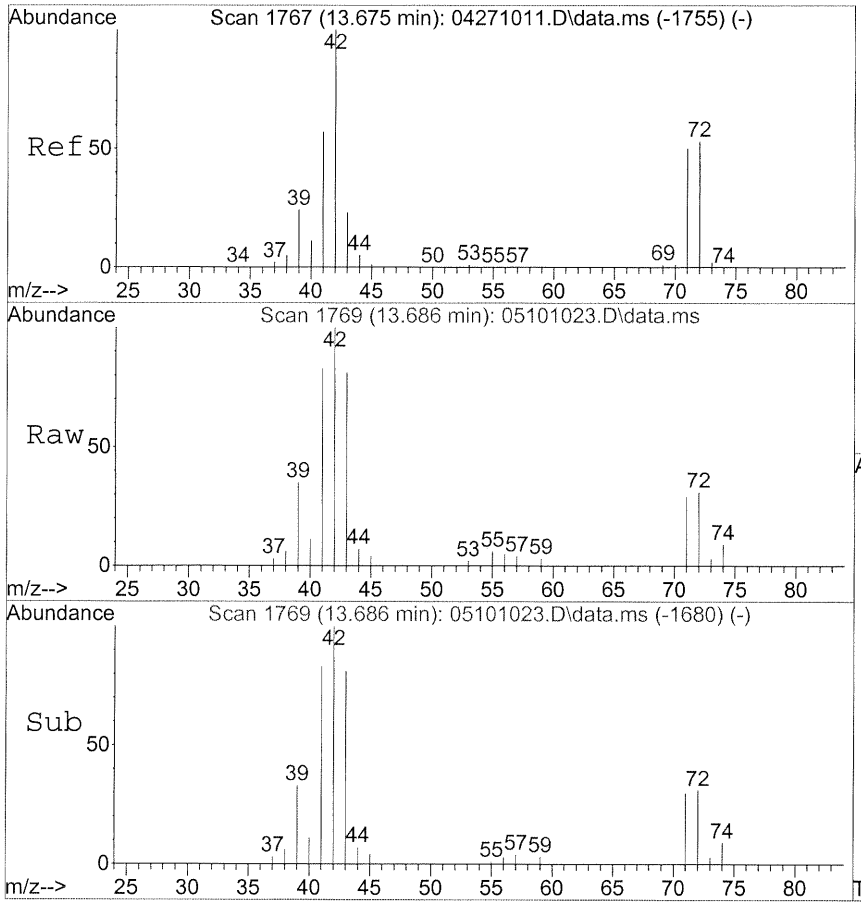


#32
Chloroform
Concen: 2.46 ng
RT: 13.10 min Scan# 1666
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 83 Resp: 102014

Ion	Ratio	Lower	Upper
83	100		
85	64.8	44.0	84.0

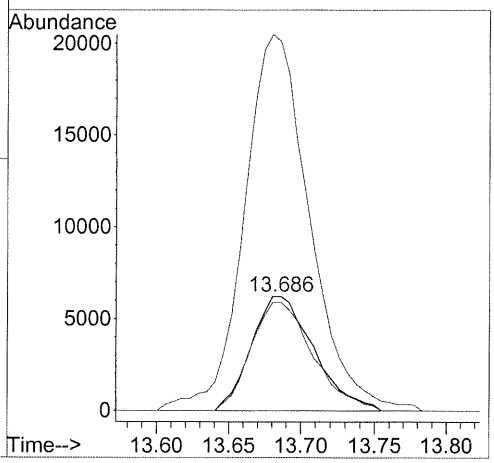


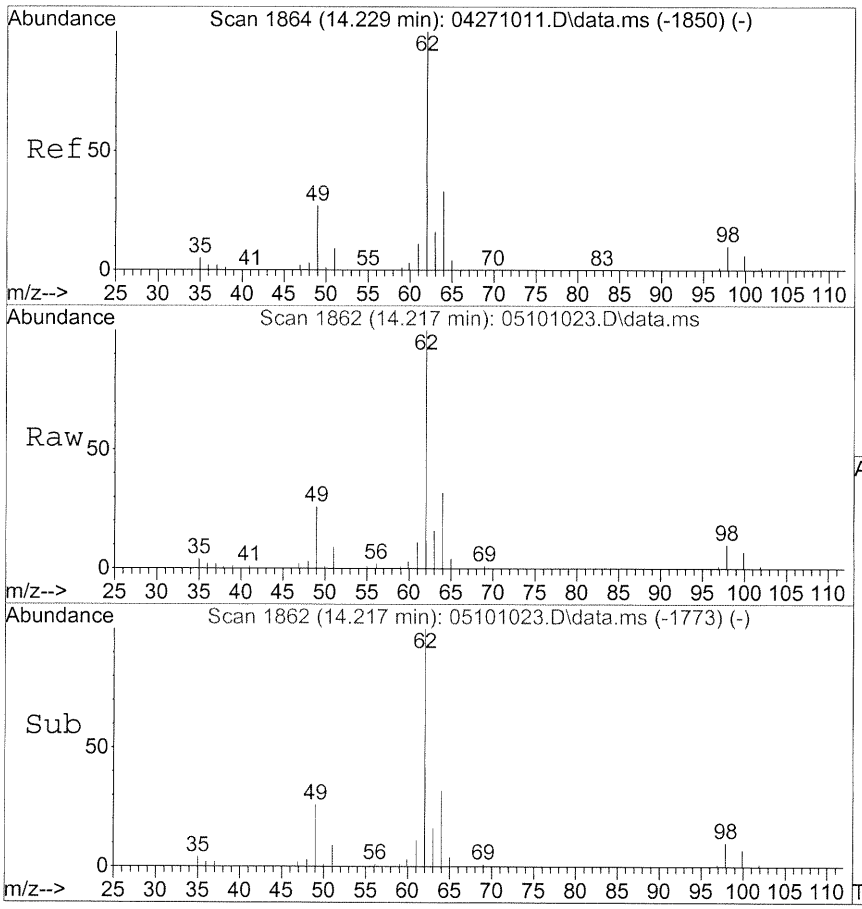


#34
Tetrahydrofuran (THF)
Concen: 1.24 ng
RT: 13.69 min Scan# 1769
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 72 Resp: 18604

Ion	Ratio	Lower	Upper
72	100		
71	93.7	76.0	116.0
42	345.0	231.9	271.9#

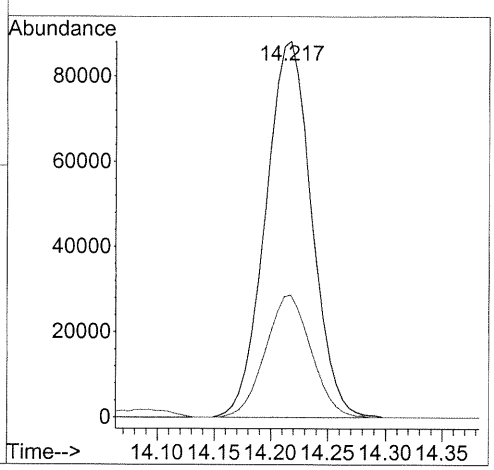


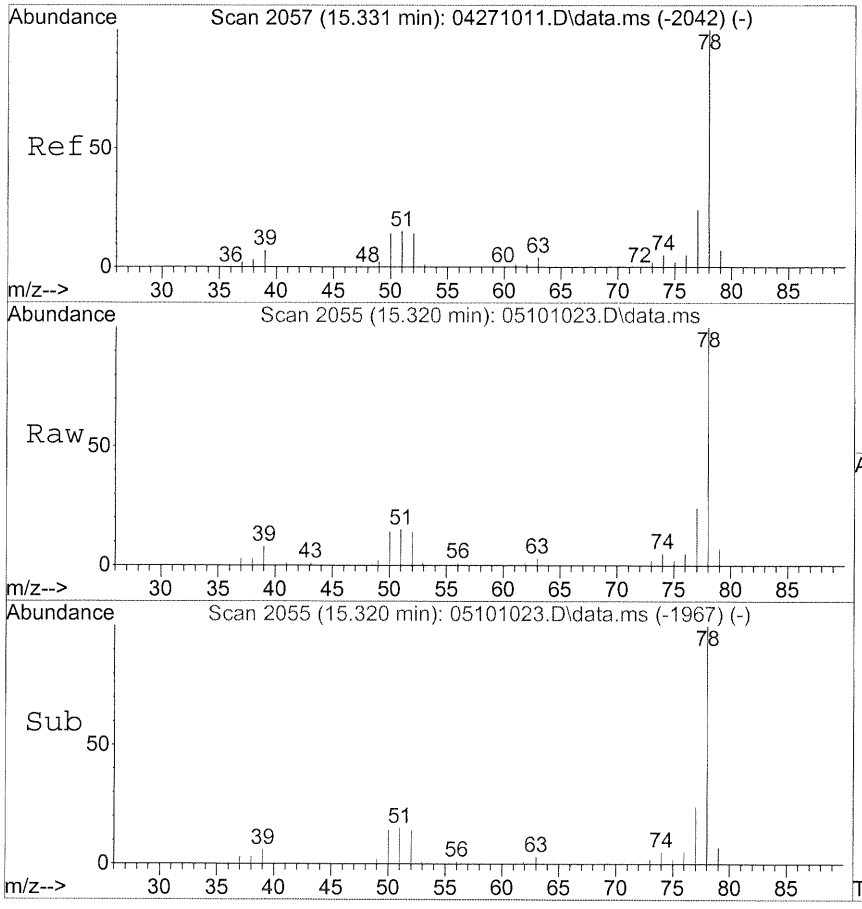


#36
1,2-Dichloroethane
Concen: 8.00 ng
RT: 14.22 min Scan# 1862
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 62 Resp: 249058

Ion	Ratio	Lower	Upper
62	100		
64	32.1	12.0	52.0

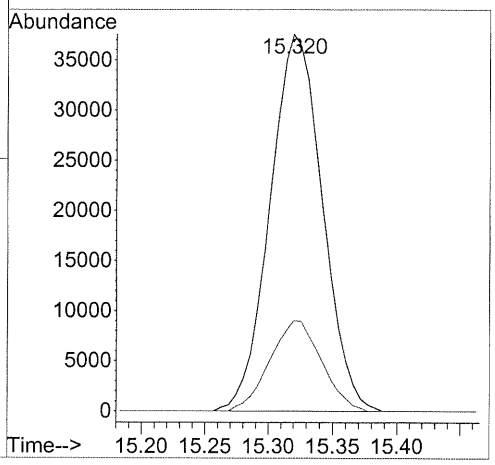


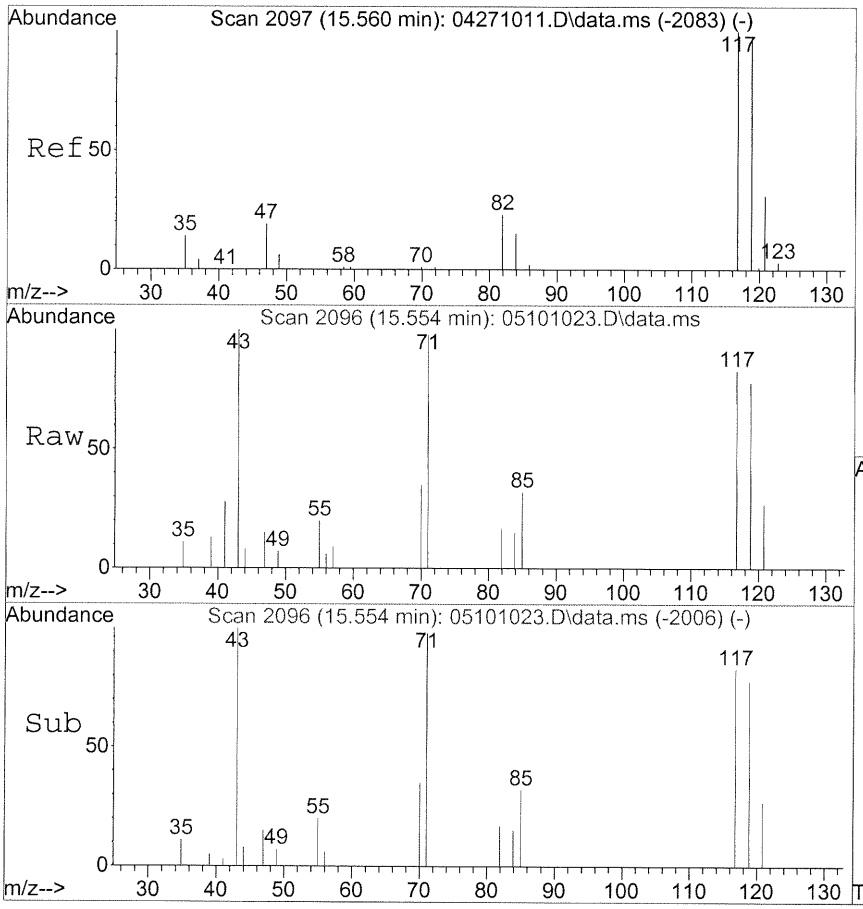


#41
Benzene
Concen: 1.04 ng
RT: 15.32 min Scan# 2055
Delta R.T. 0.000 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 78 Resp: 106423

Ion	Ratio	Lower	Upper
78	100		
77	23.6	4.4	44.4

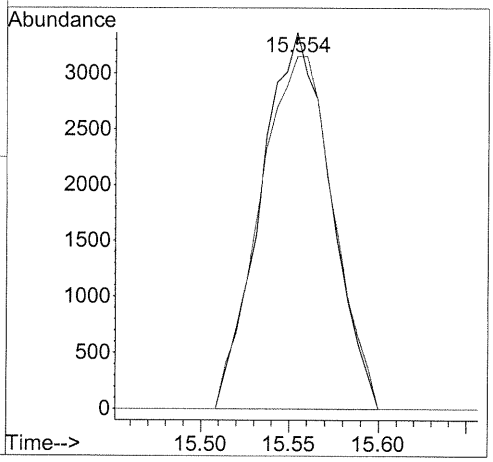


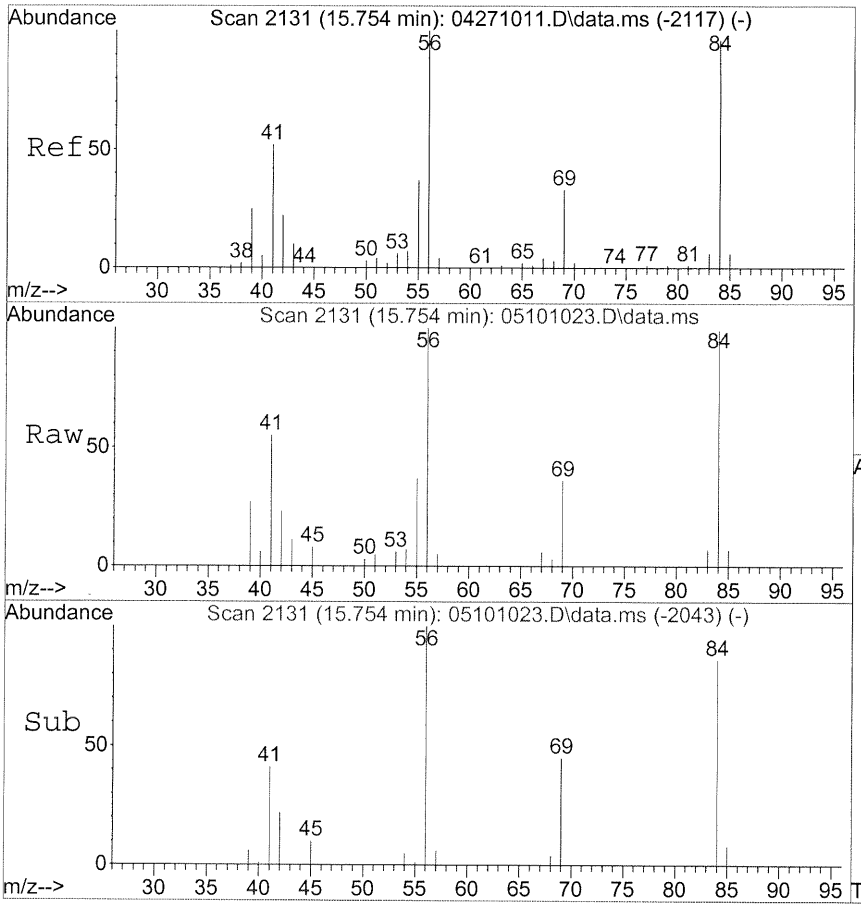


#42
Carbon Tetrachloride
Concen: 0.29 ng
RT: 15.55 min Scan# 2096
Delta R.T. 0.012 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:117 Resp: 9119

Ion	Ratio	Lower	Upper
117	100		
119	99.4	75.8	115.8

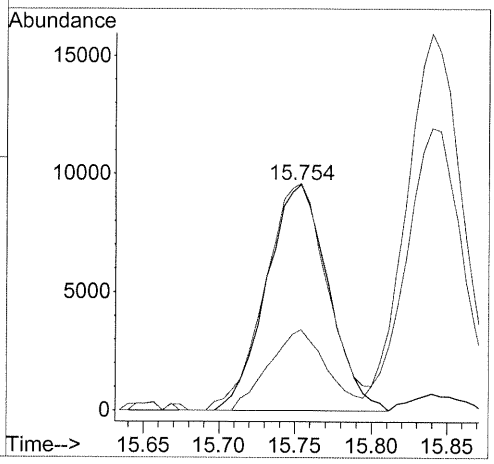


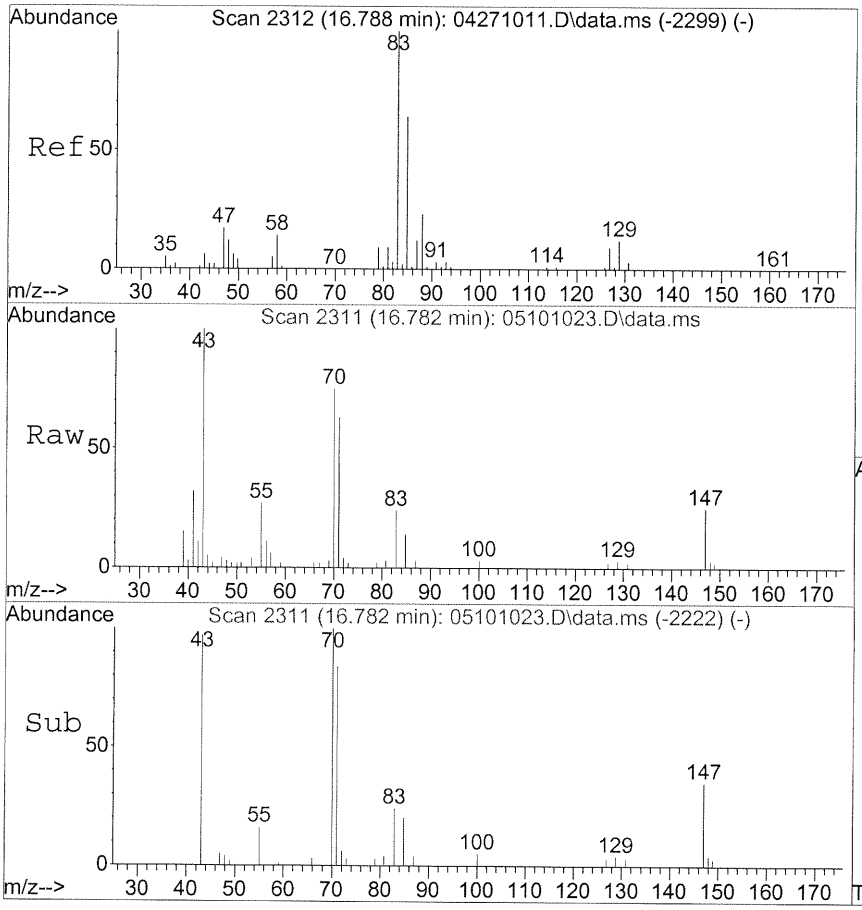


#43
Cyclohexane
Concen: 0.70 ng
RT: 15.75 min Scan# 2131
Delta R.T. 0.000 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 84 Resp: 26686

Ion	Ratio	Lower	Upper
84	100		
69	34.0	18.4	58.4
56	101.7	112.6	152.6#

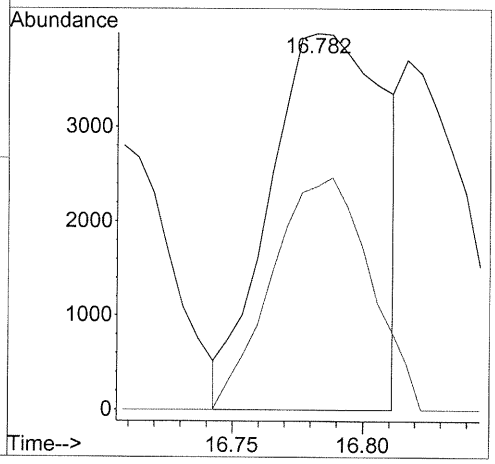


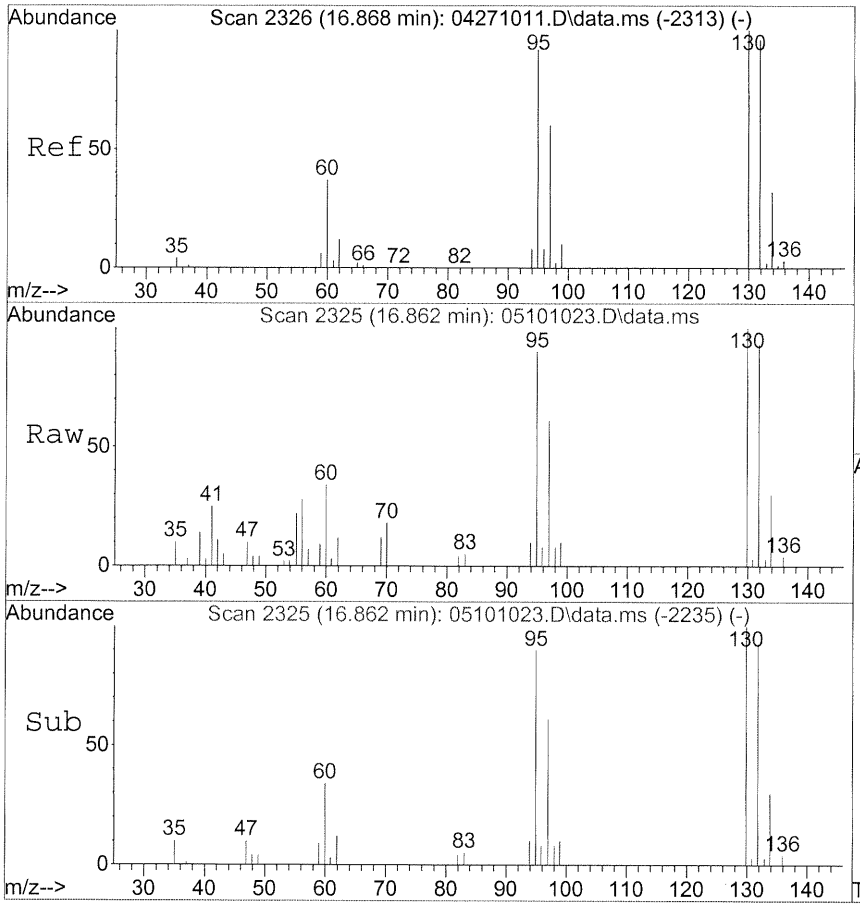


#46
Bromodichloromethane
Concen: 0.39 ng m
RT: 16.78 min Scan# 2311
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 83 Resp: 12038

Ion	Ratio	Lower	Upper
83	100		
85	53.0	42.8	82.8

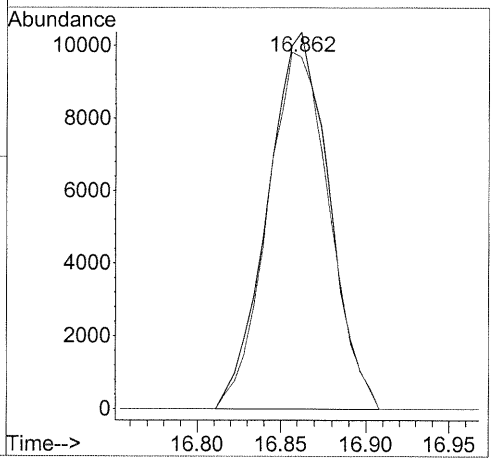


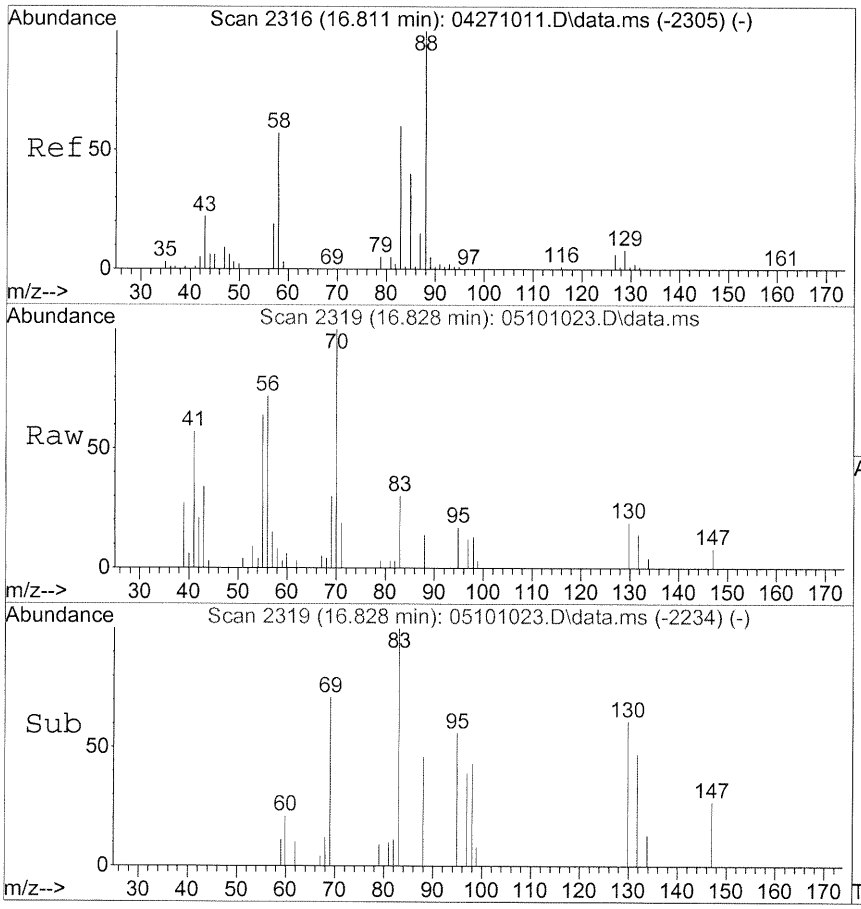


#47
Trichloroethene
Concen: 0.91 ng
RT: 16.86 min Scan# 2325
Delta R.T. 0.012 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:130 Resp: 26077

Ion	Ratio	Lower	Upper
130	100		
132	95.3	75.3	115.3

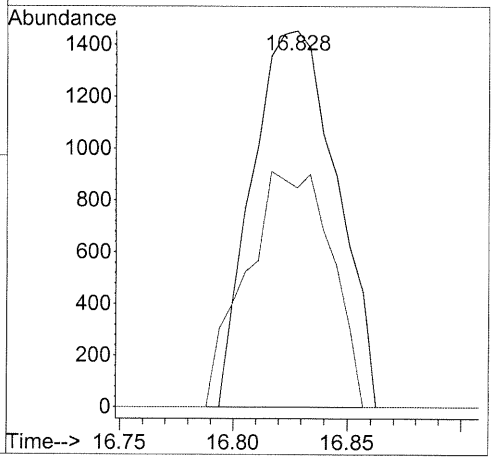


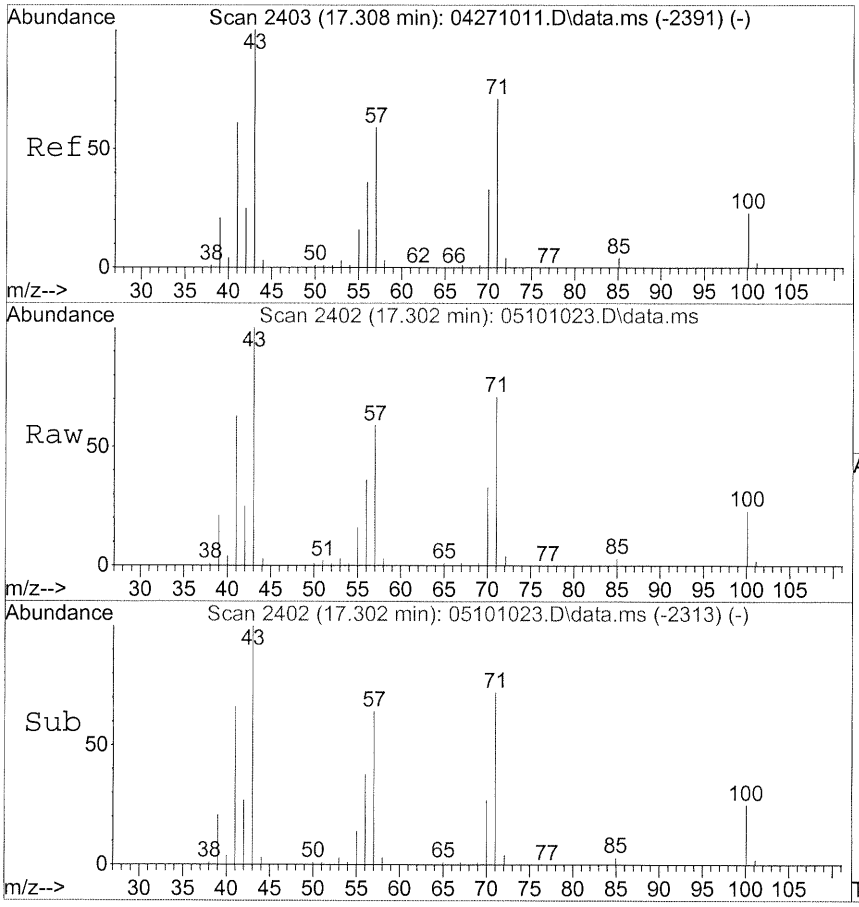


#48
1,4-Dioxane
Concen: 0.19 ng
RT: 16.83 min Scan# 2319
Delta R.T. -0.017 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 88 Resp: 3712

Ion	Ratio	Lower	Upper
88	100		
58	63.5	52.5	92.5

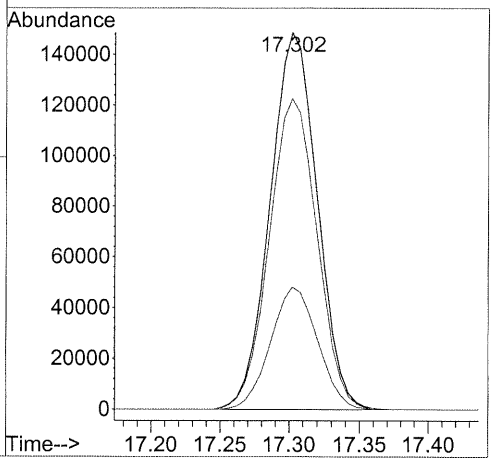


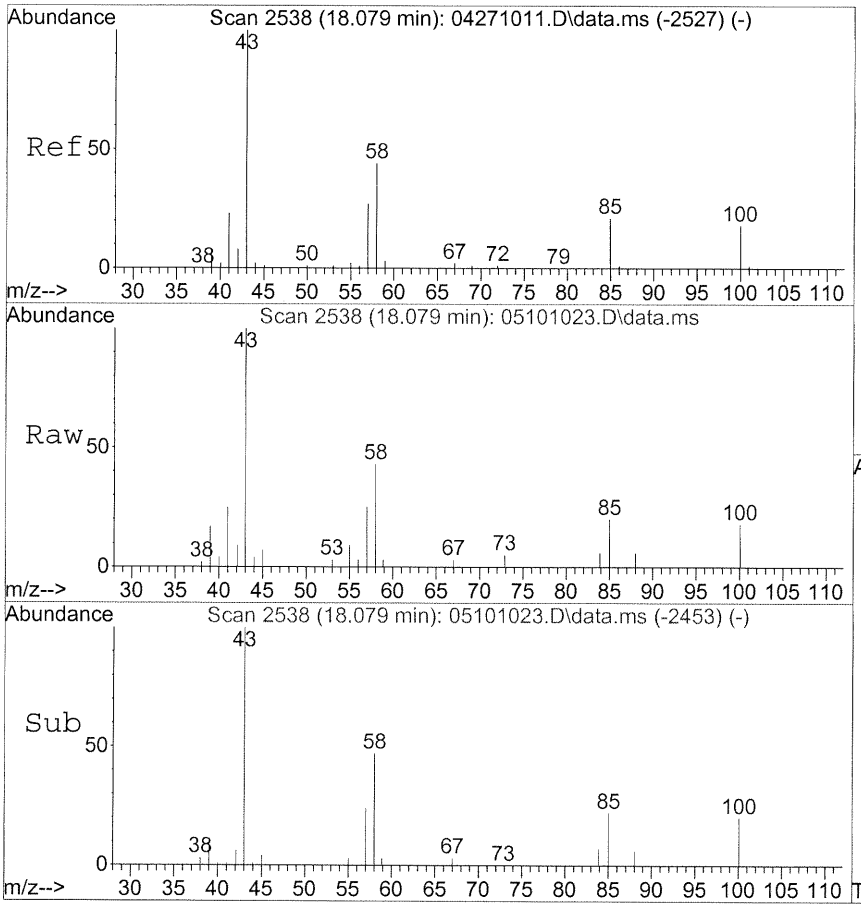


#51
n-Heptane
Concen: 14.32 ng
RT: 17.30 min Scan# 2402
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 71 Resp: 349682

Ion	Ratio	Lower	Upper
71	100		
57	83.5	74.9	114.9
100	32.2	5.0	45.0

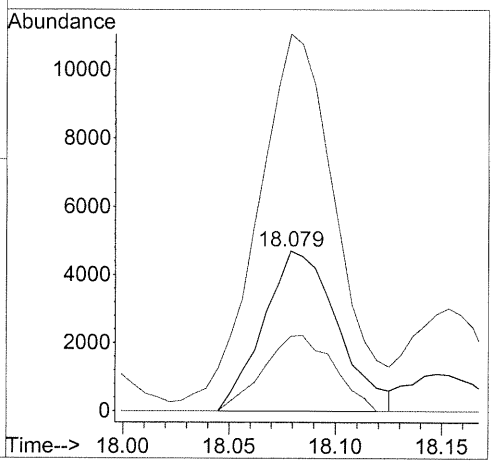


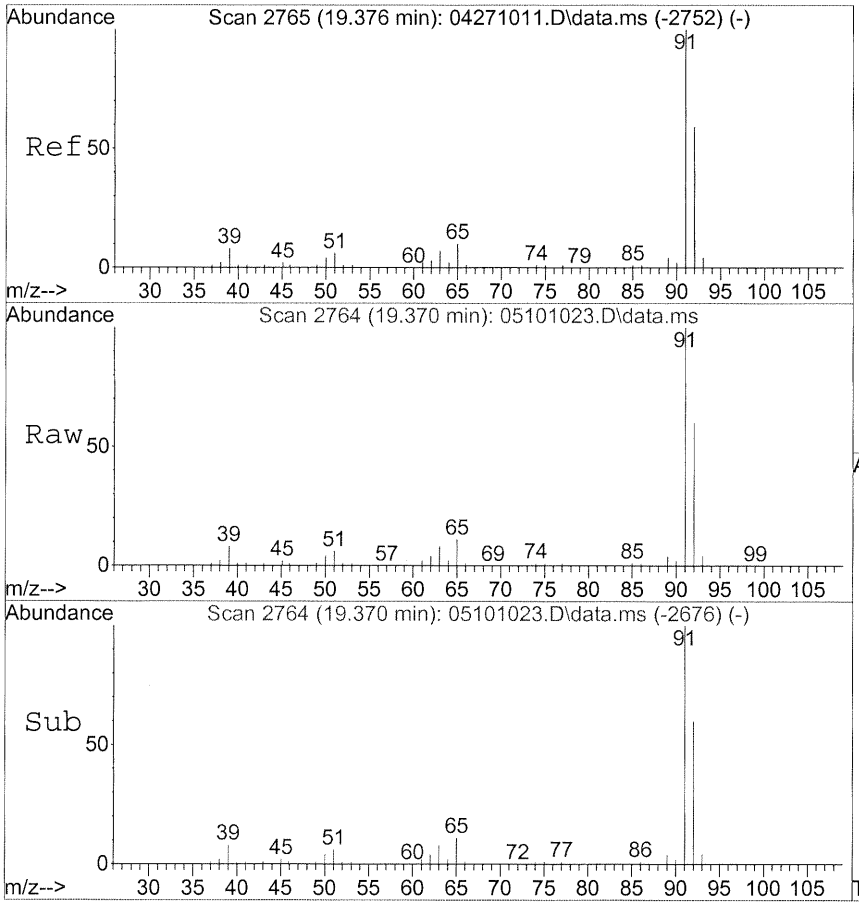


#53
4-Methyl-2-pentanone
Concen: 0.58 ng
RT: 18.08 min Scan# 2538
Delta R.T. -0.017 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 58 Resp: 11295

Ion	Ratio	Lower	Upper
58	100		
43	236.2	207.1	310.7
85	44.9	31.4	47.2

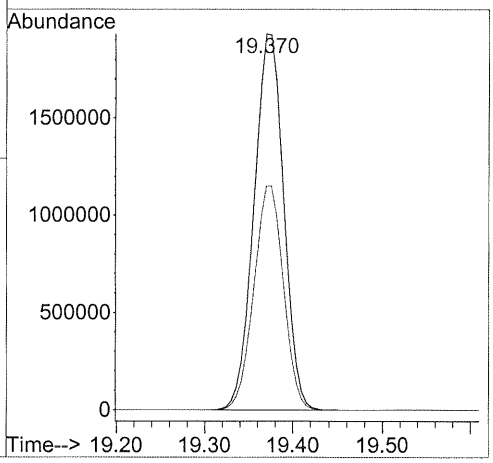


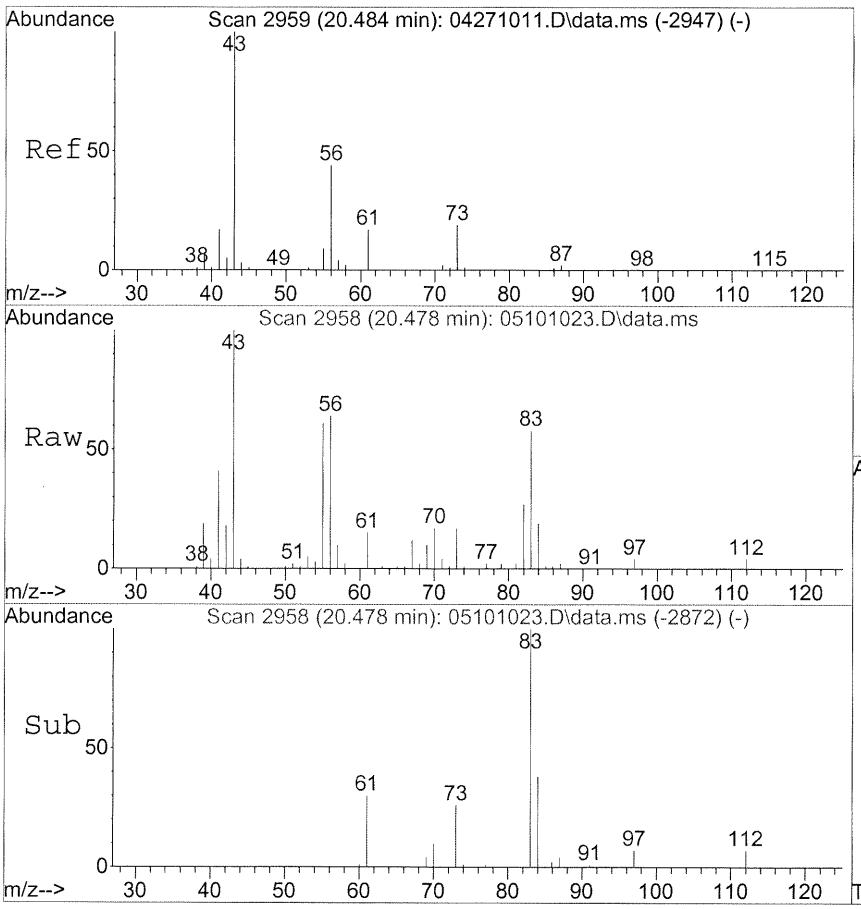


#58
Toluene
Concen: 33.63 ng
RT: 19.37 min Scan# 2764
Delta R.T. 0.000 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 91 Resp: 4523717

Ion	Ratio	Lower	Upper
91	100		
92	59.3	37.6	77.6

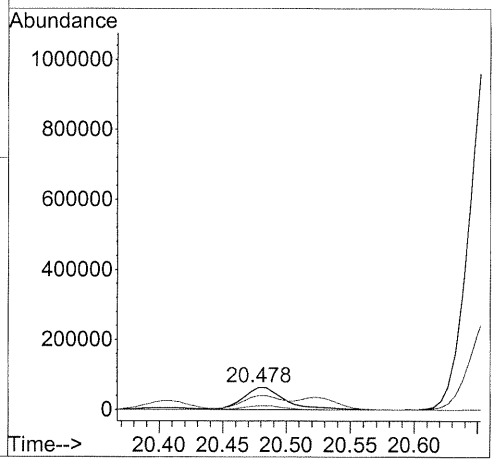


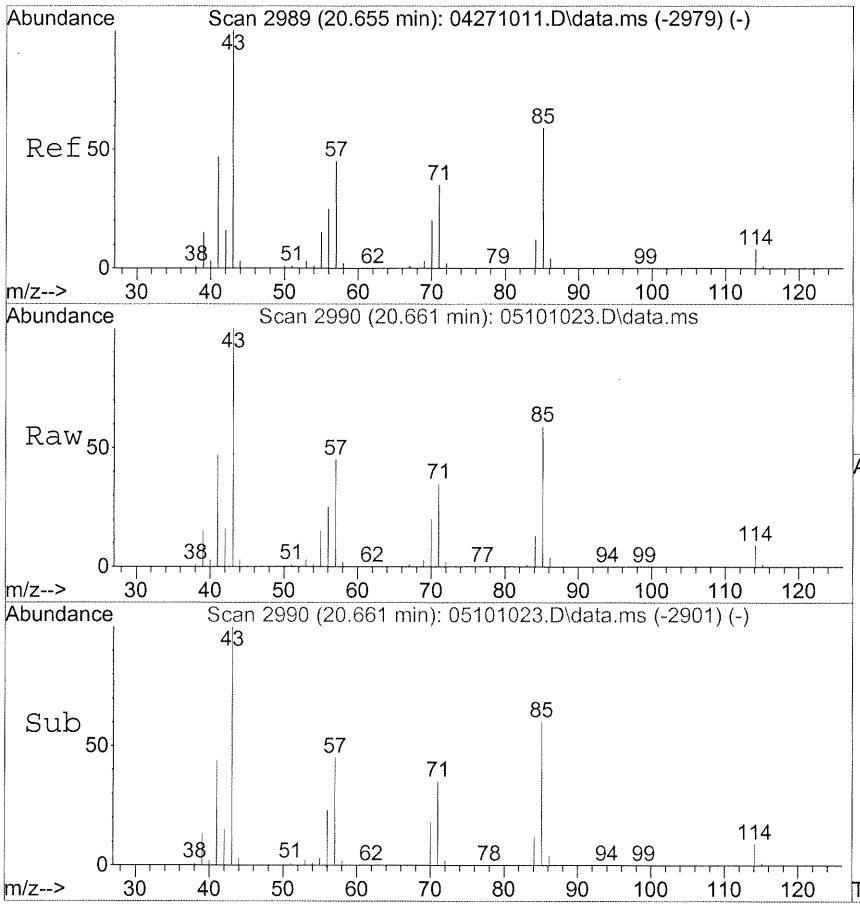


#62
n-Butyl Acetate
Concen: 2.23 ng
RT: 20.48 min Scan# 2958
Delta R.T. -0.011 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 43 Resp: 145029

Ion	Ratio	Lower	Upper
43	100		
56	58.7	19.7	59.7
73	16.2	0.0	34.2

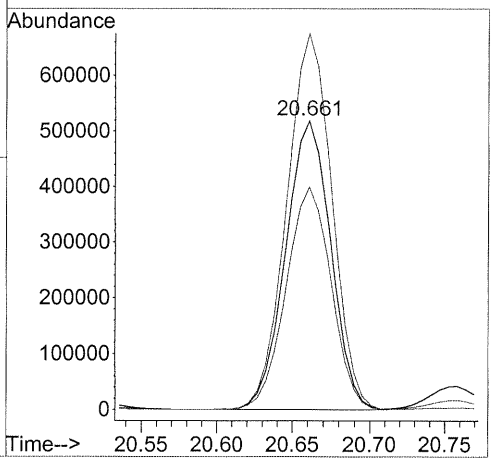


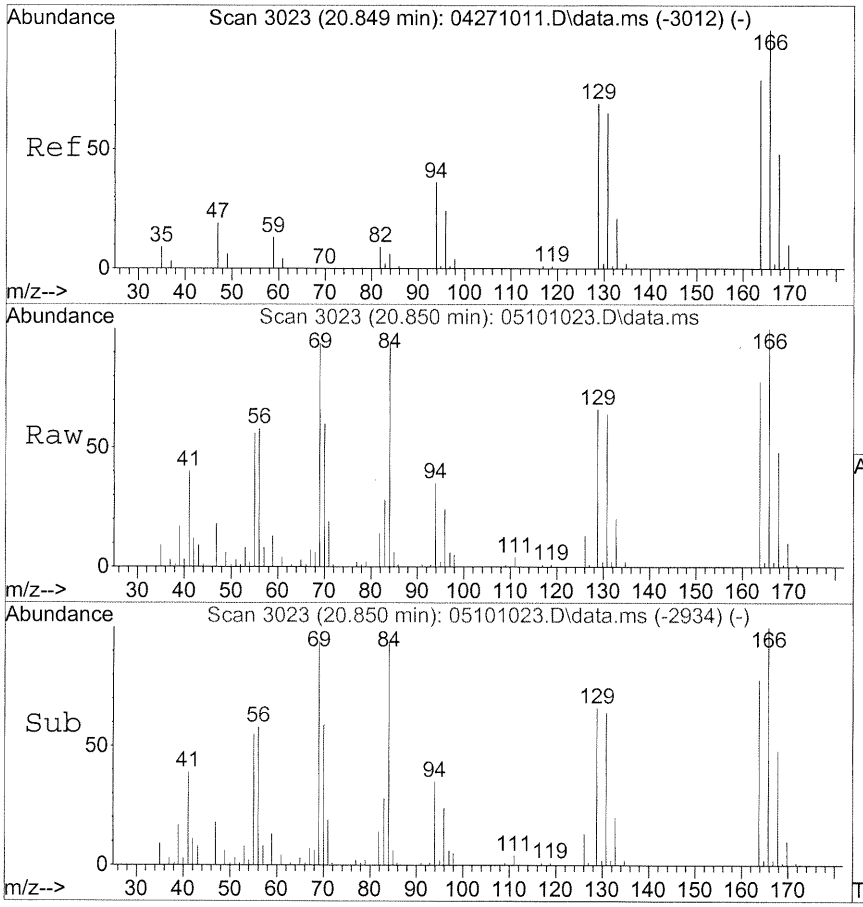


#63
n-Octane
Concen: 43.62 ng
RT: 20.66 min Scan# 2990
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 57 Resp: 1052943

Ion	Ratio	Lower	Upper
57	100		
85	130.2	81.8	122.8#
71	76.7	55.0	82.6

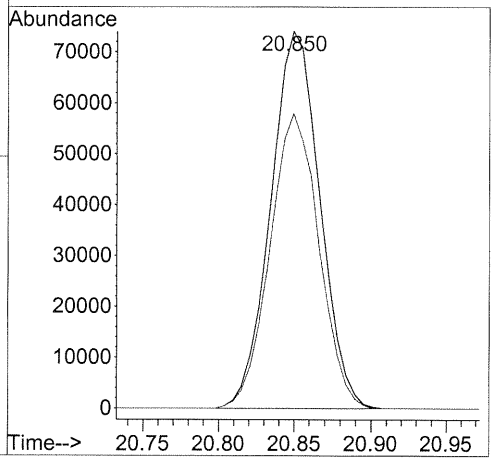


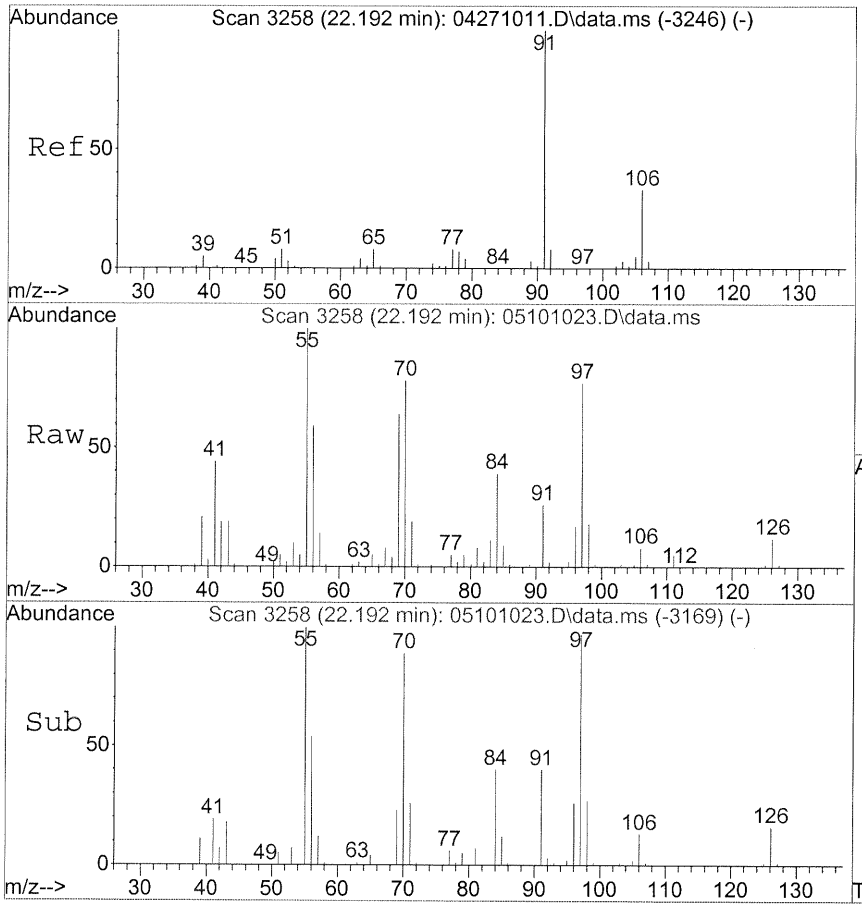


#64
Tetrachloroethene
Concen: 3.95 ng
RT: 20.85 min Scan# 3023
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:166 Resp: 165922

Ion	Ratio	Lower	Upper
166	100		
164	77.9	58.4	98.4

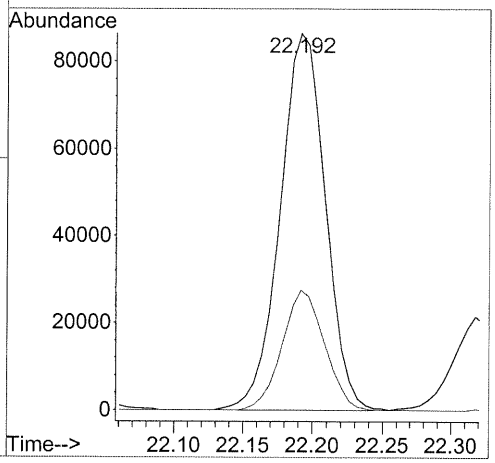


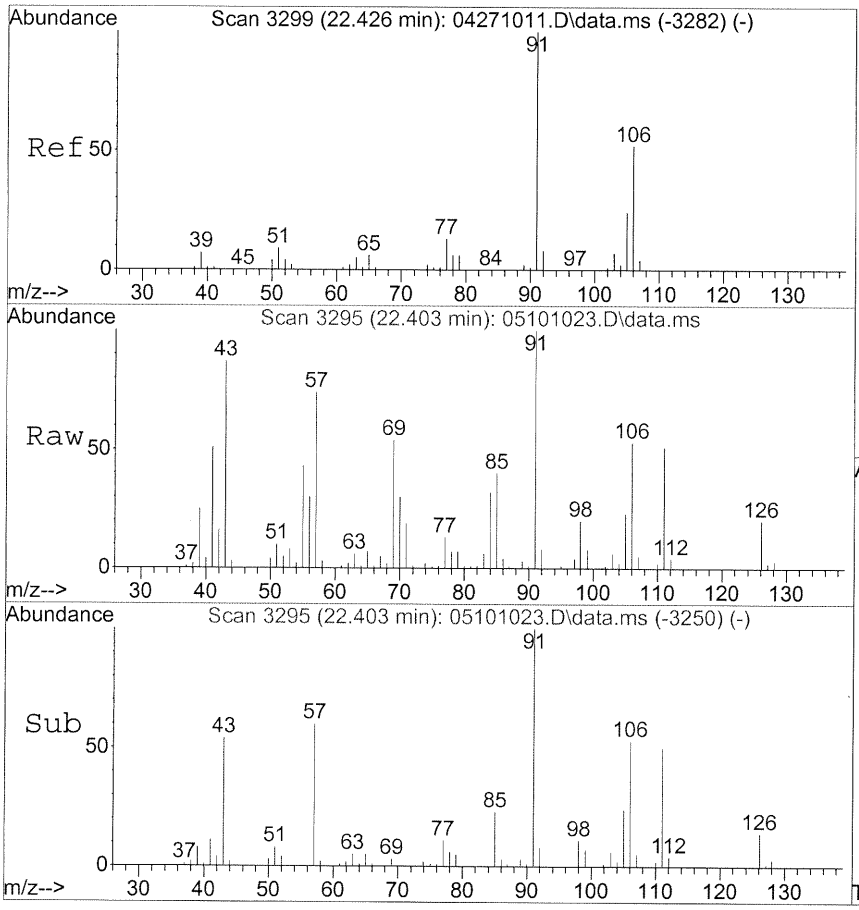


#66
Ethylbenzene
Concen: 1.31 ng
RT: 22.19 min Scan# 3258
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 91 Resp: 193715

Ion	Ratio	Lower	Upper
91	100		
106	29.8	9.8	49.8

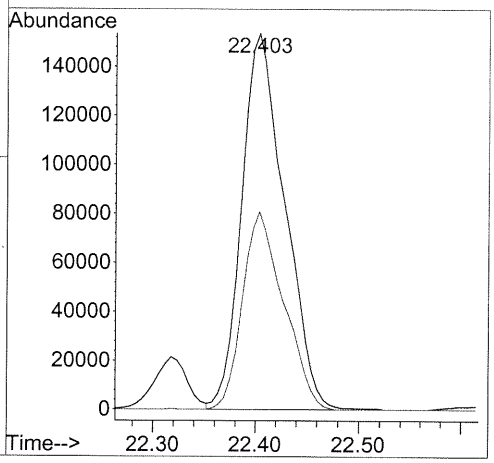


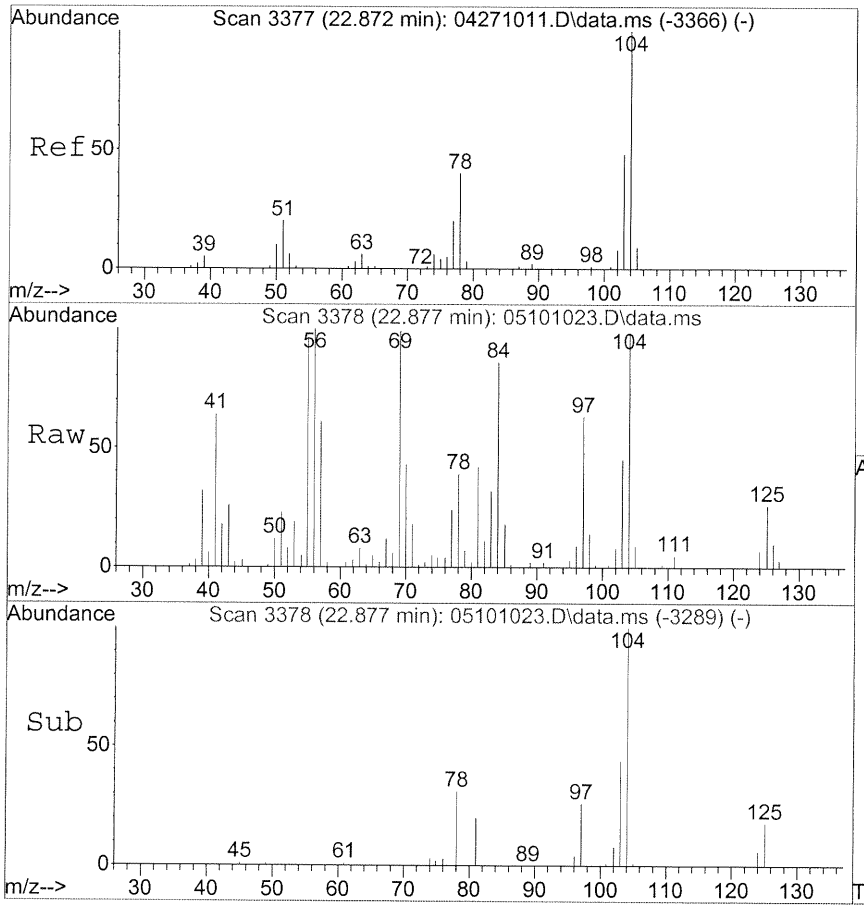


#67
m- & p-Xylenes
Concen: 3.86 ng
RT: 22.40 min Scan# 3295
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 91 Resp: 449568

Ion	Ratio	Lower	Upper
91	100		
106	50.1	26.8	66.8

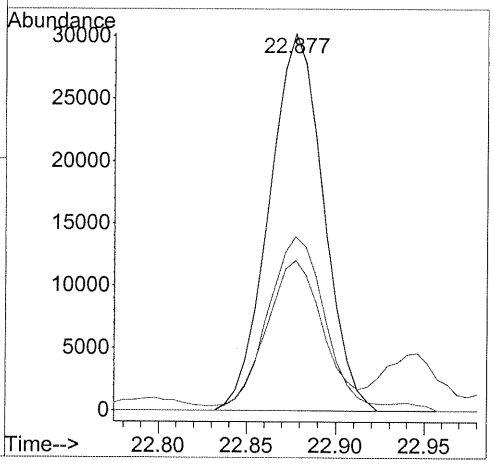


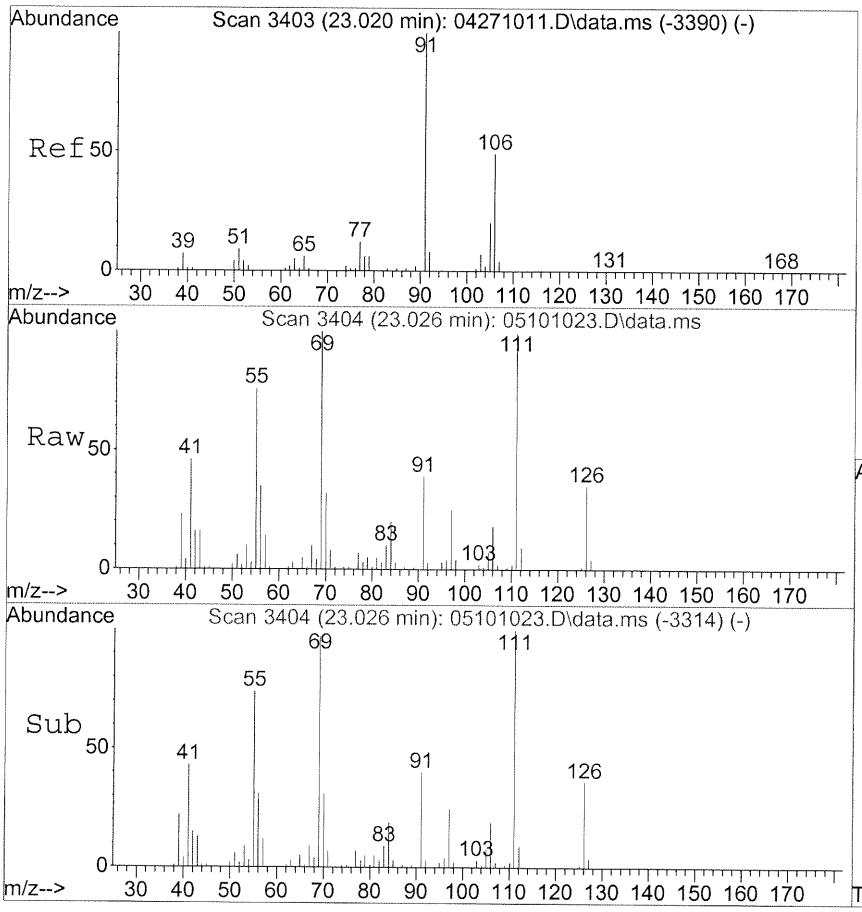


#69
Styrene
Concen: 0.69 ng
RT: 22.88 min Scan# 3378
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:104 Resp: 63657

Ion	Ratio	Lower	Upper
104	100		
78	42.2	26.1	66.1
103	49.7	28.7	68.7

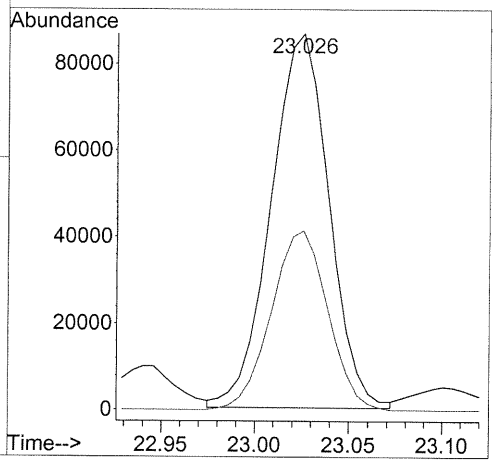


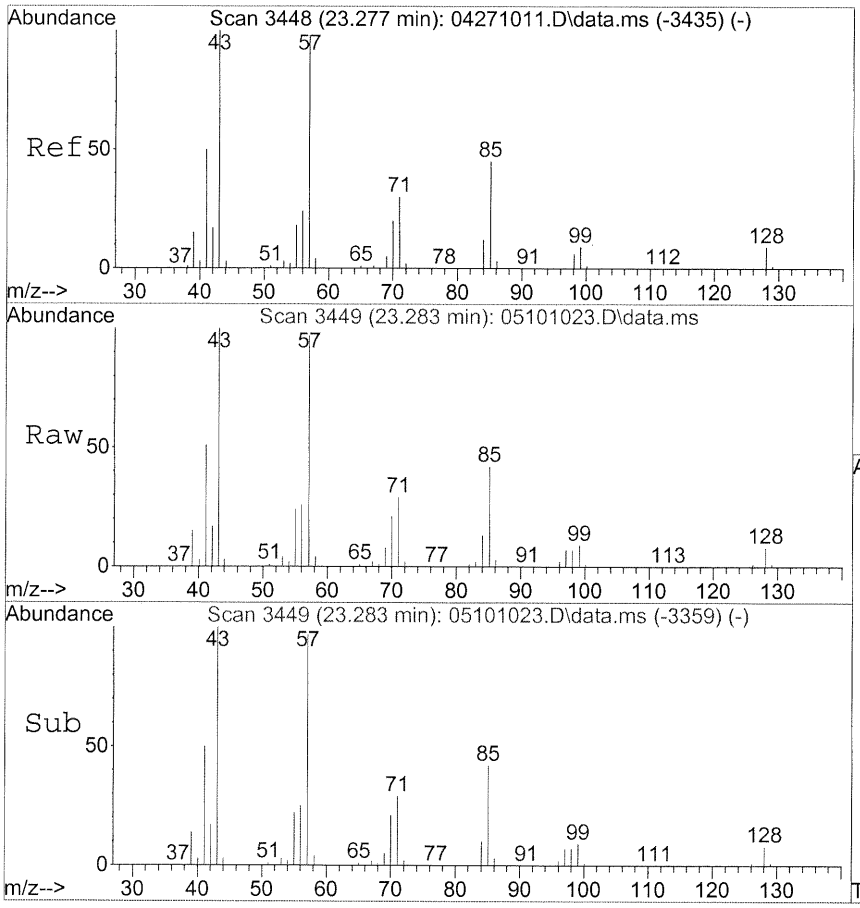


#70
o-Xylene
Concen: 1.56 ng
RT: 23.03 min Scan# 3404
Delta R.T. 0.012 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 91 Resp: 185590

Ion	Ratio	Lower	Upper
91	100		
106	46.8	24.4	64.4

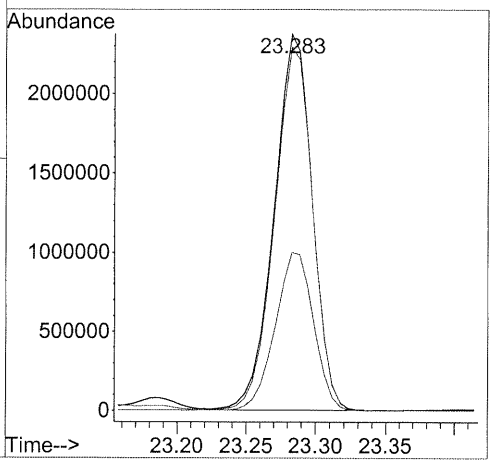


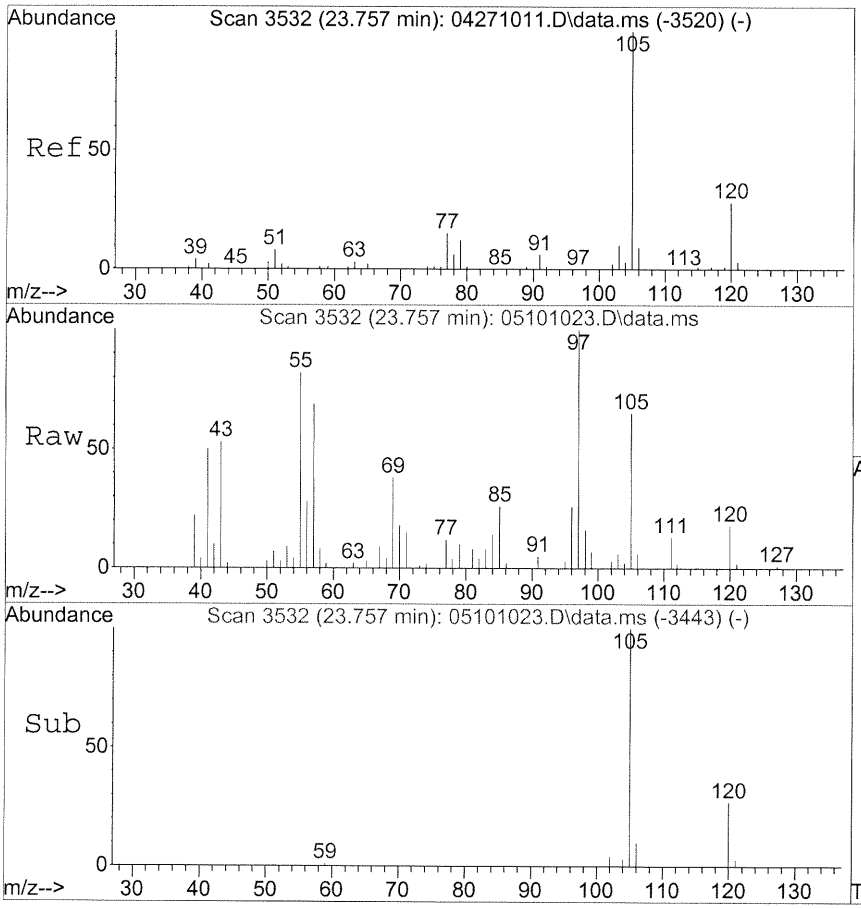


#71
n-Nonane
Concen: 87.40 ng
RT: 23.28 min Scan# 3449
Delta R.T. 0.012 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 43 Resp: 4528866

Ion	Ratio	Lower	Upper
43	100		
57	96.2	65.6	105.6
85	42.4	9.9	49.9

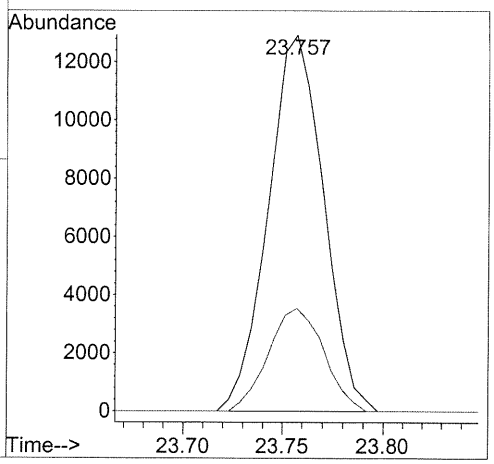


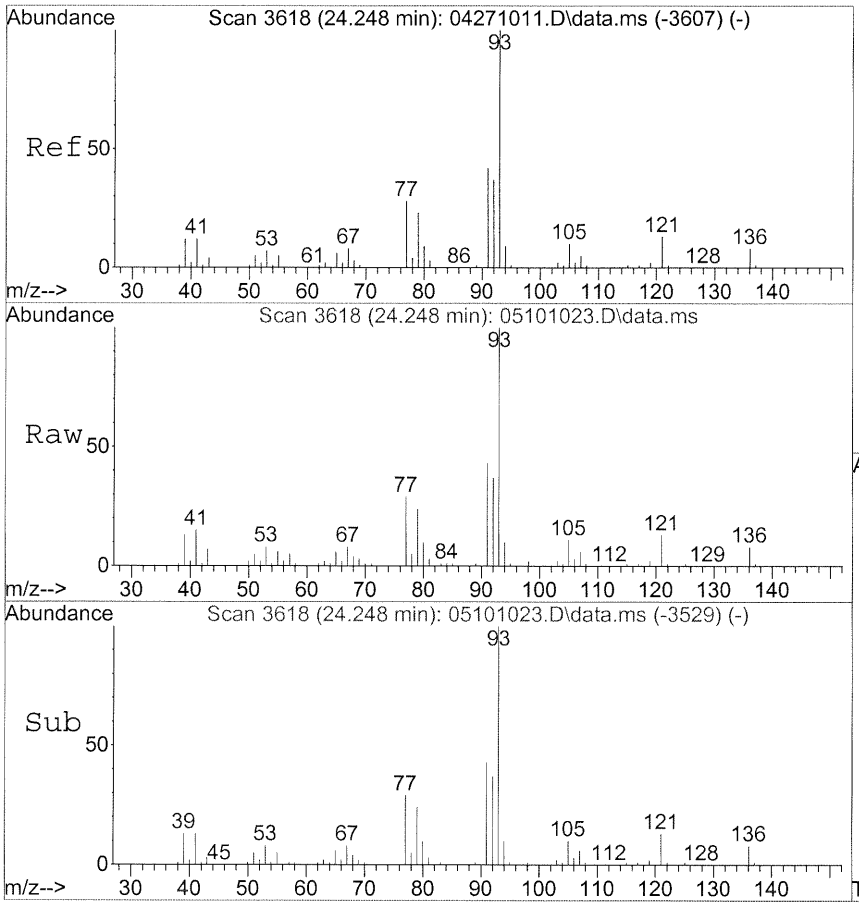


#74
Cumene
Concen: 0.15 ng
RT: 23.76 min Scan# 3532
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:105 Resp: 24845

Ion	Ratio	Lower	Upper
105	100		
120	27.3	5.2	45.2

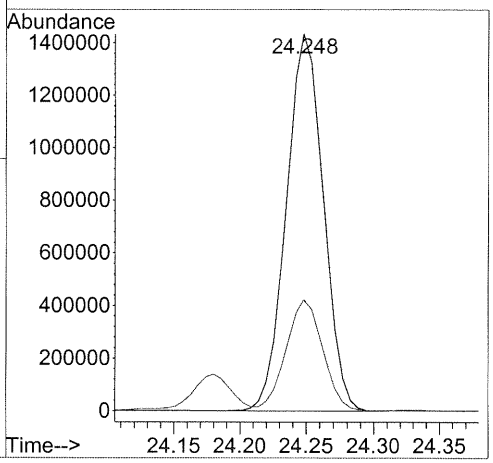


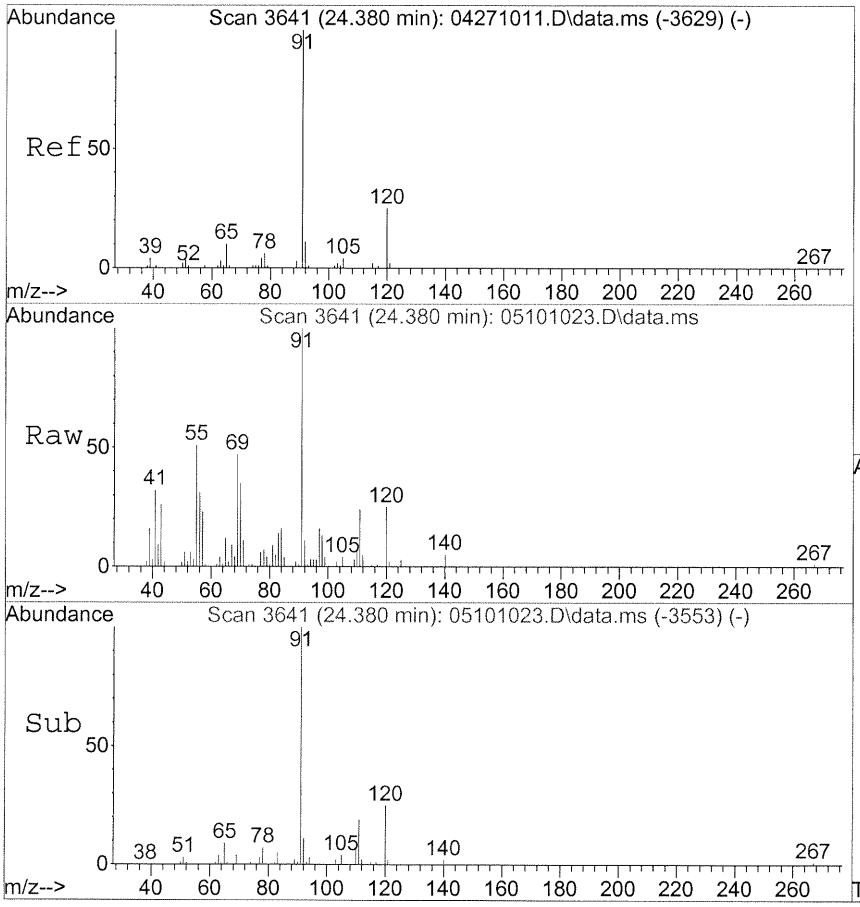


#75
alpha-Pinene
Concen: 36.30 ng
RT: 24.25 min Scan# 3618
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 93 Resp: 2733676

Ion	Ratio	Lower	Upper
93	100		
77	29.2	12.3	52.3

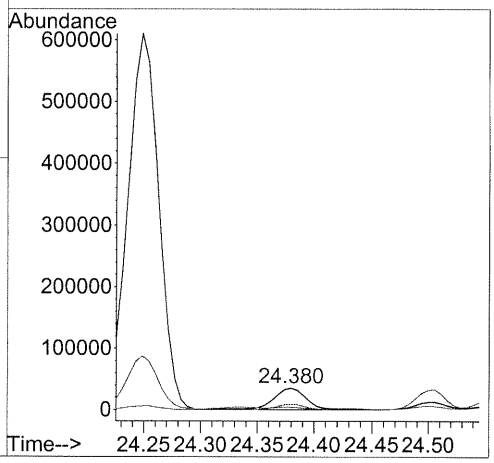


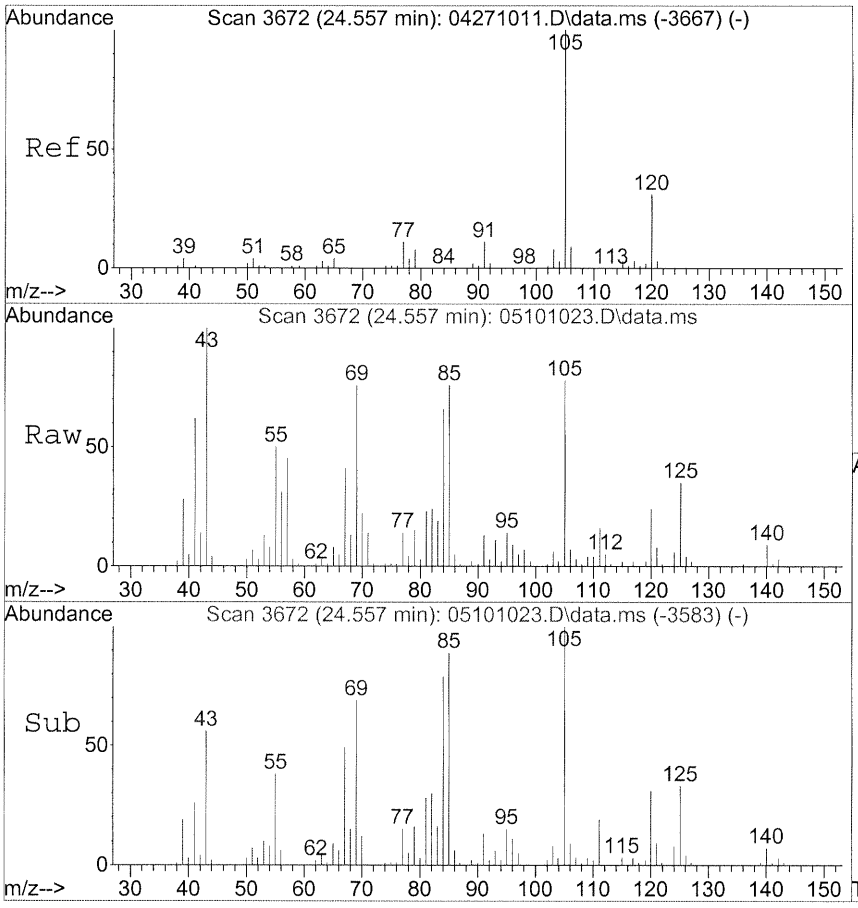


#76
n-Propylbenzene
Concen: 0.37 ng
RT: 24.38 min Scan# 3641
Delta R.T. 0.000 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 91 Resp: 69391

Ion	Ratio	Lower	Upper
91	100		
120	23.1	0.9	40.9
65	8.8	0.0	31.2

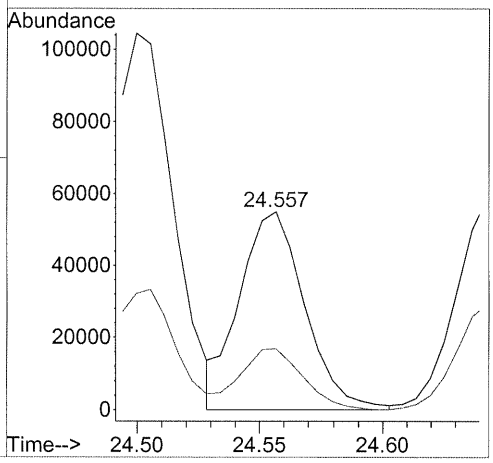


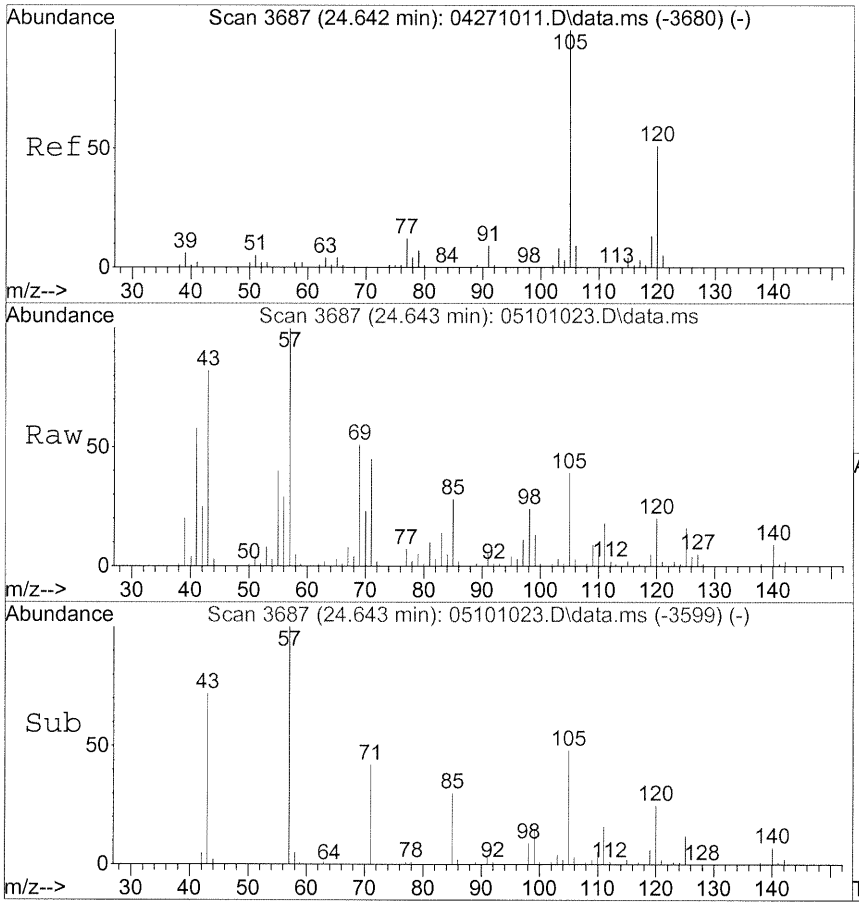


#78
4-Ethyltoluene
Concen: 0.68 ng
RT: 24.56 min Scan# 3672
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:105 Resp: 101456

Ion	Ratio	Lower	Upper
105	100		
120	29.6	8.2	48.2

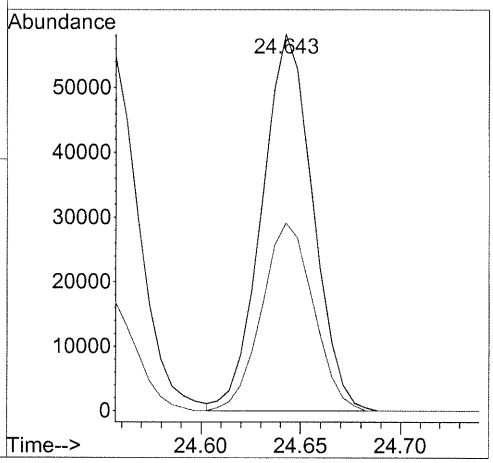


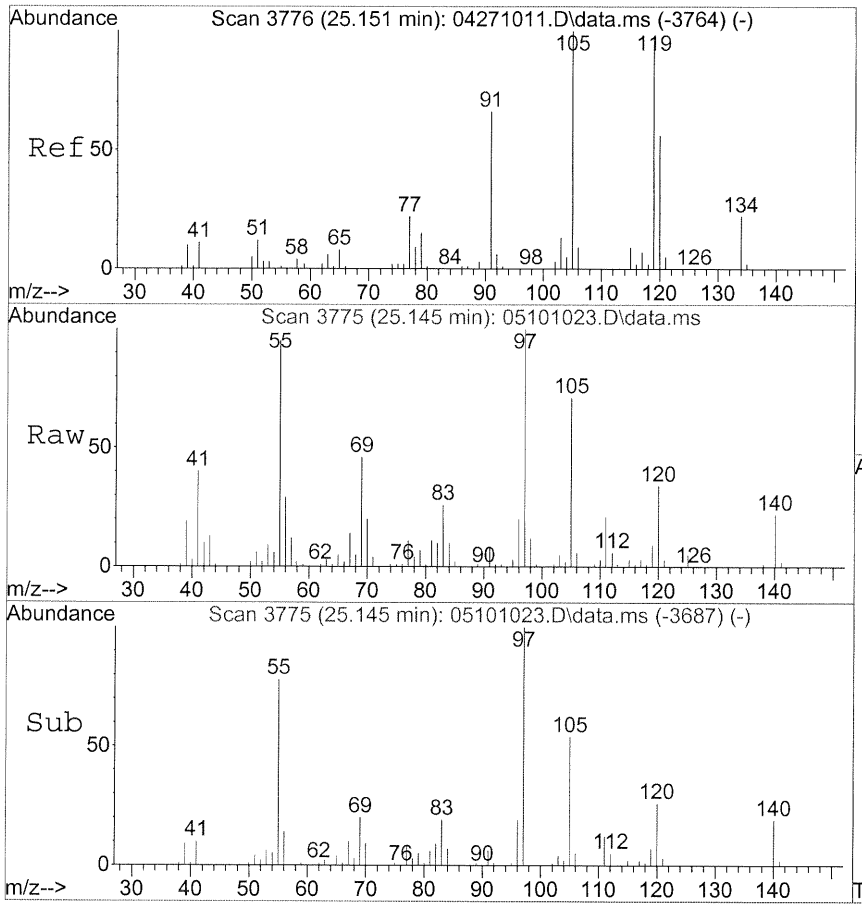


#79
1,3,5-Trimethylbenzene
Concen: 0.85 ng
RT: 24.64 min Scan# 3687
Delta R.T. 0.000 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:105 Resp: 103916

Ion	Ratio	Lower	Upper
105	100		
120	50.4	26.2	66.2

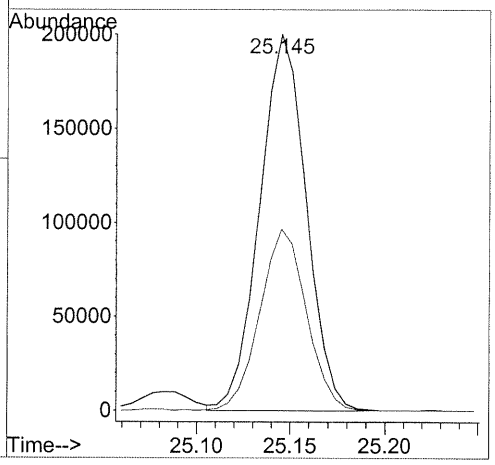


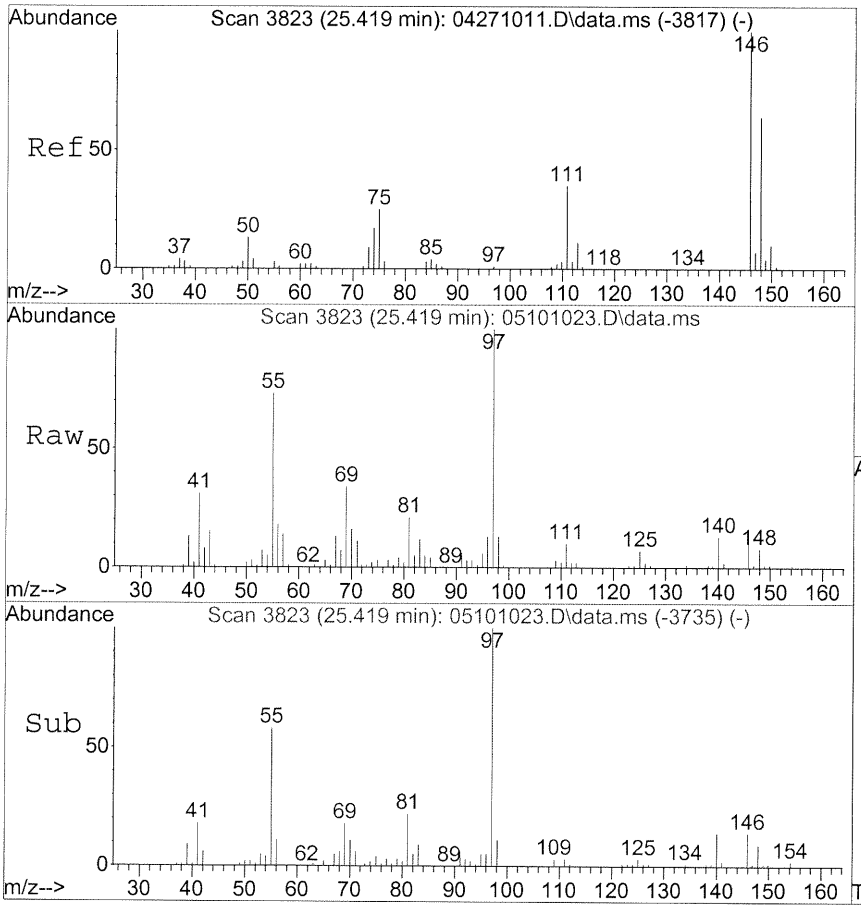


#82
1,2,4-Trimethylbenzene
Concen: 2.74 ng
RT: 25.15 min Scan# 3775
Delta R.T. 0.000 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:105 Resp: 346454

Ion	Ratio	Lower	Upper
105	100		
120	48.0	30.1	70.1

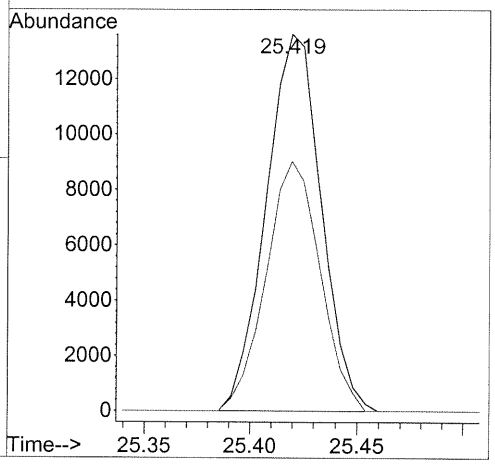


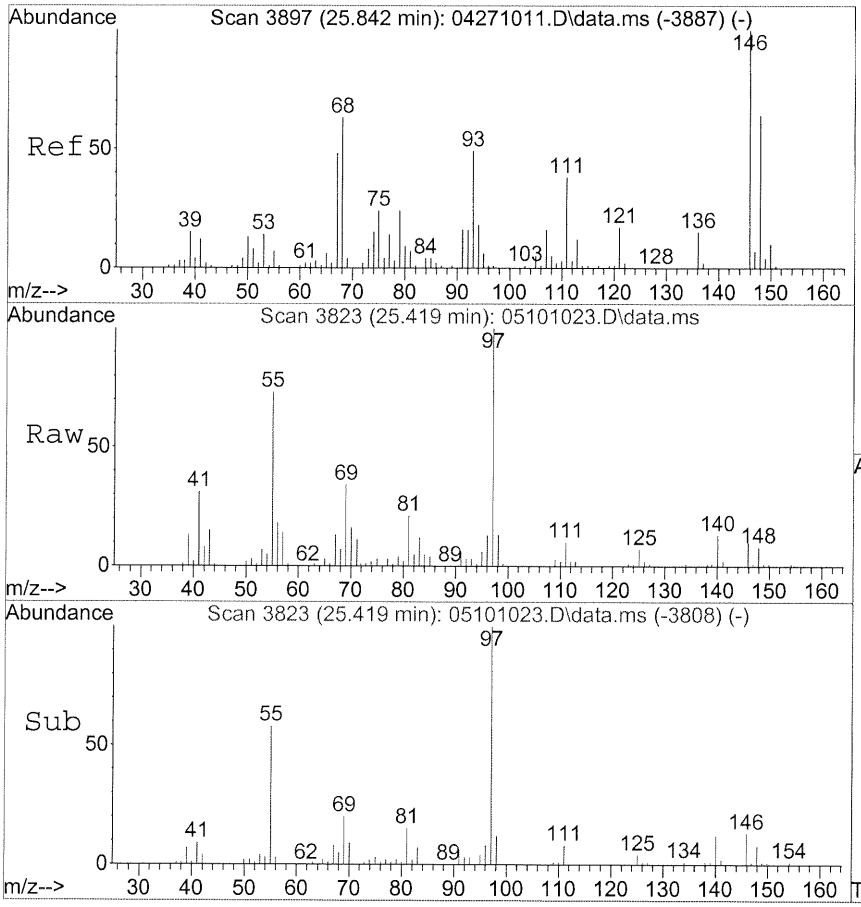


#86
1,4-Dichlorobenzene
Concen: 0.31 ng
RT: 25.42 min Scan# 3823
Delta R.T. 0.000 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:146 Resp: 24553

Ion	Ratio	Lower	Upper
146	100		
148	65.1	43.8	83.8

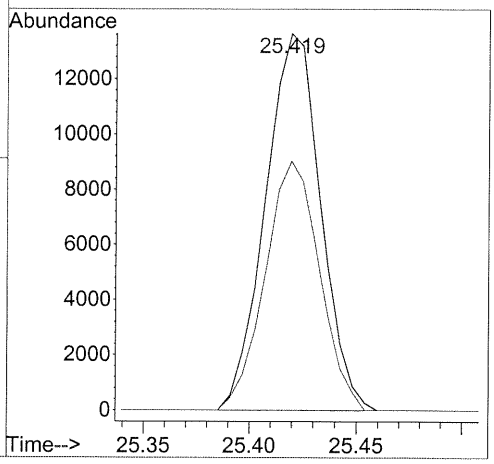


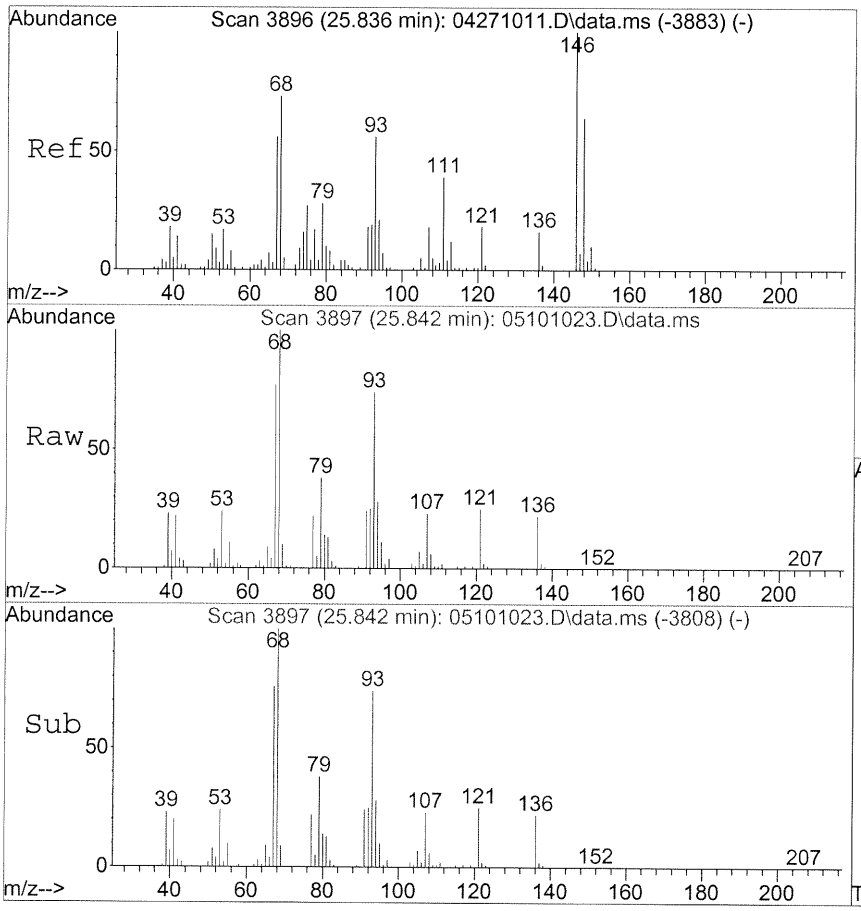


#90
1,2-Dichlorobenzene
Concen: 0.33 ng
RT: 25.42 min Scan# 3823
Delta R.T. -0.417 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:146 Resp: 24553

Ion	Ratio	Lower	Upper
146	100		
148	65.1	43.6	83.6

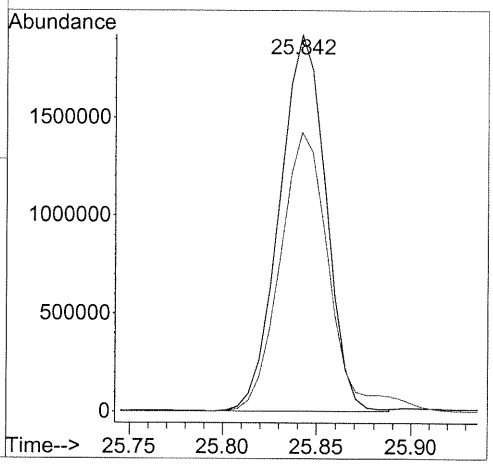


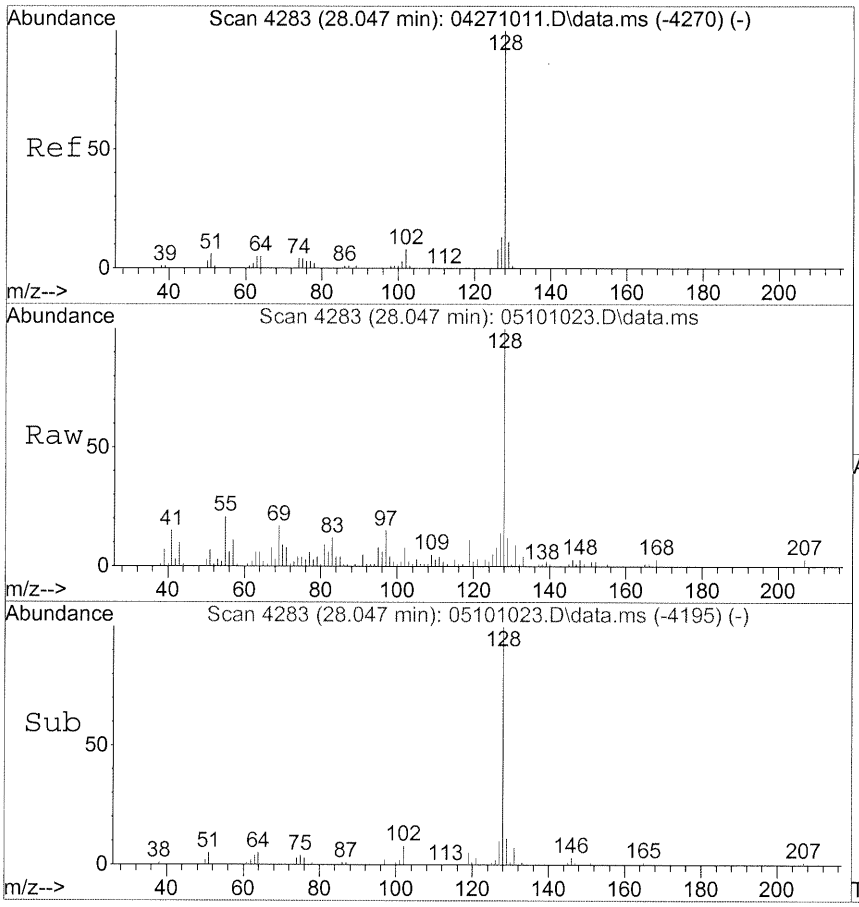


#91
d-Limonene
Concen: 74.72 ng
RT: 25.84 min Scan# 3897
Delta R.T. 0.006 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion: 68 Resp: 3279401

Ion	Ratio	Lower	Upper
68	100		
93	79.4	42.0	82.0

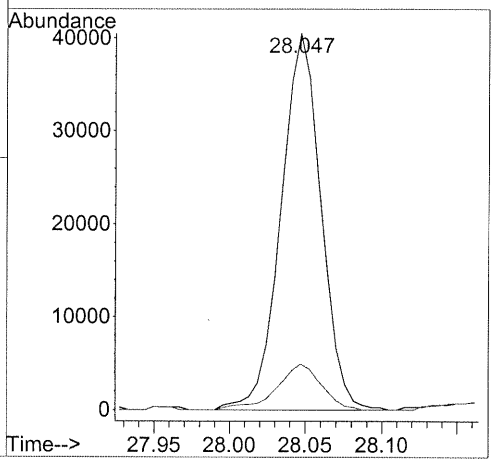




#95
Naphthalene
Concen: 0.46 ng
RT: 28.05 min Scan# 4283
Delta R.T. 0.000 min
Lab File: 05101023.D
Acq: 11 May 2010 3:46

Tgt Ion:128 Resp: 73756

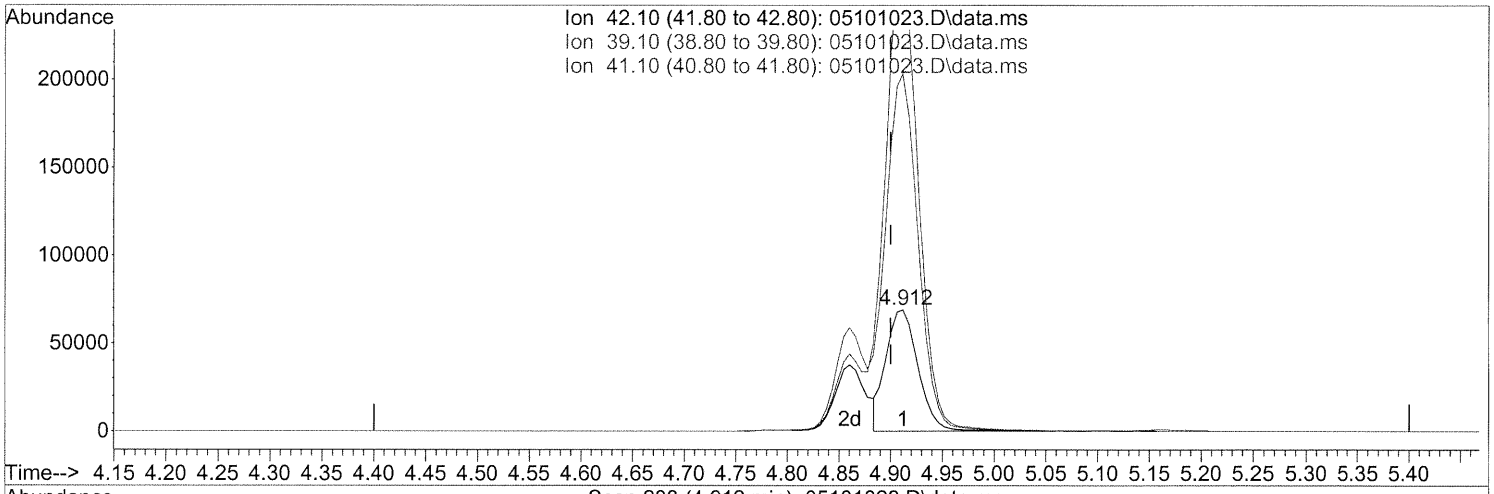
Ion	Ratio	Lower	Upper
128	100		
129	13.5	0.0	31.1

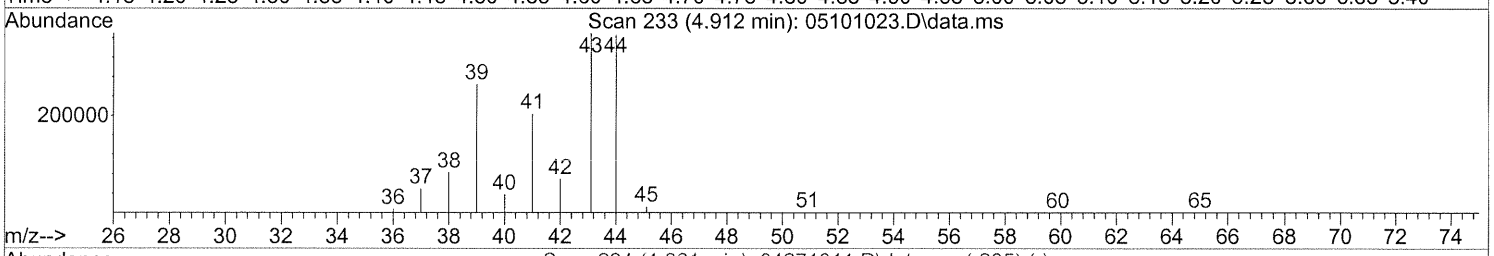


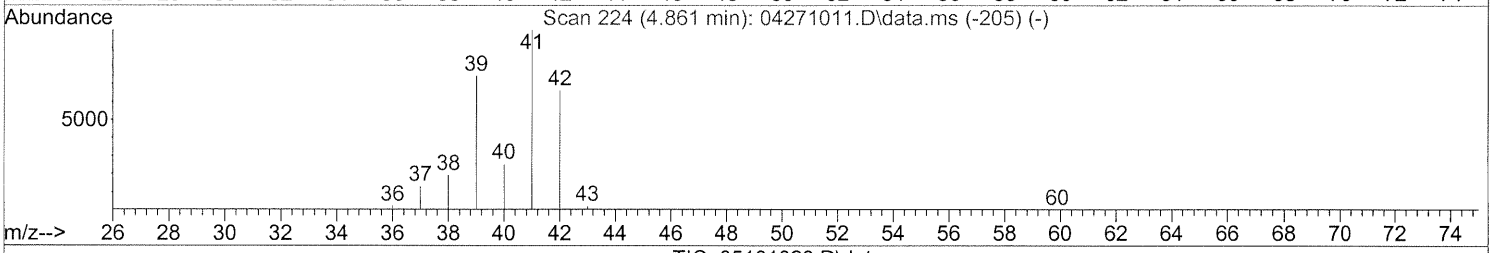
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101023.D\data.ms

(2) Propene (T)

4.912min (+0.012) 6.91ng

response 149039

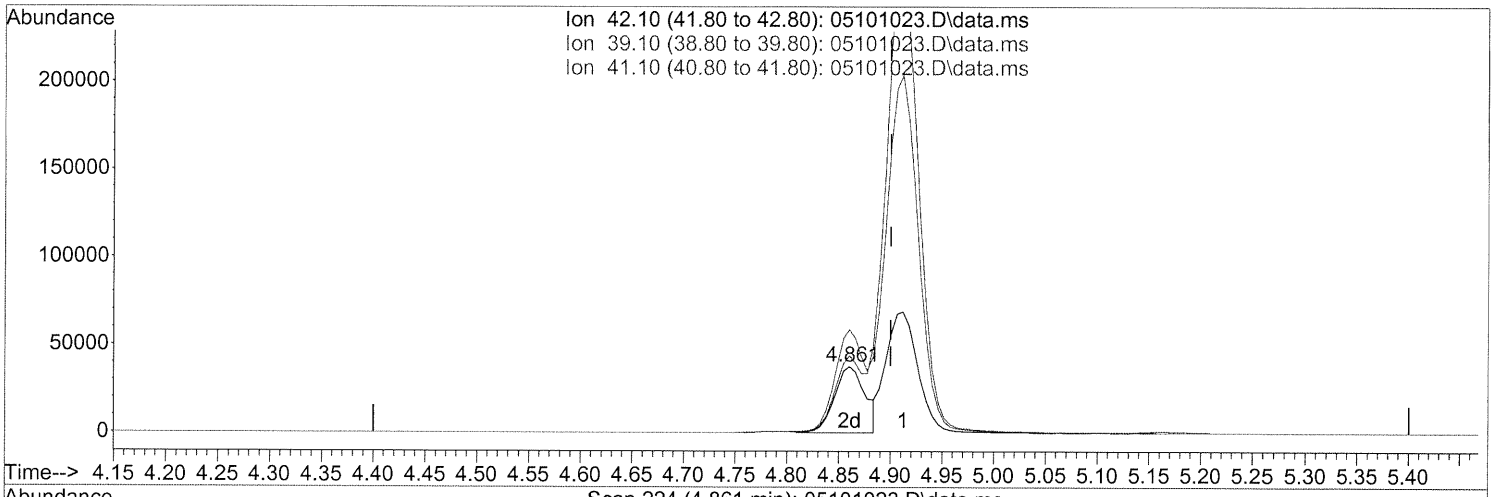
MP

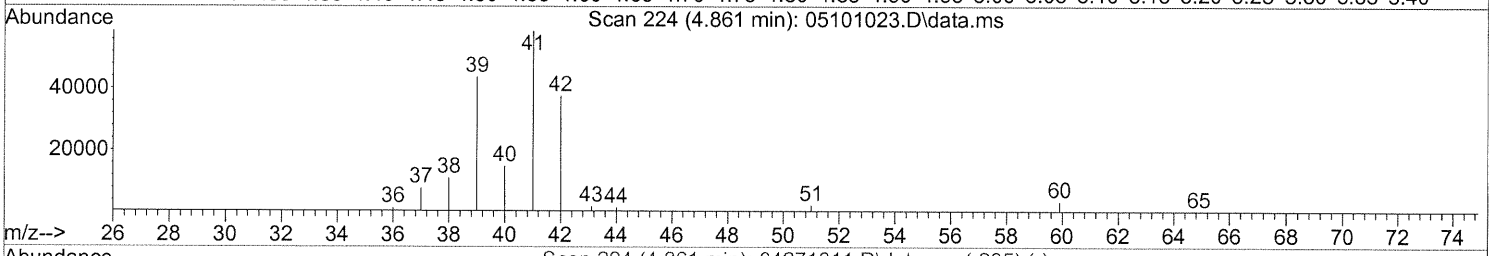
Ion	Exp%	Act%
42.10	100	100
39.10	112.20	392.61#
41.10	153.90	302.08#
0.00	0.00	0.00

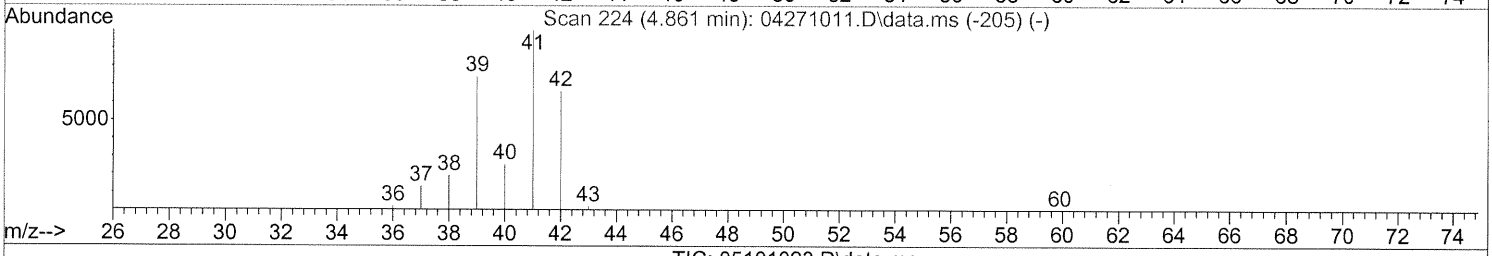
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101023.D\data.ms

(2) Propene (T)

4.861min (-0.040) 3.60ng m

response 77574

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	754.30#
41.10	153.90	580.36#
0.00	0.00	0.00

MP → IC

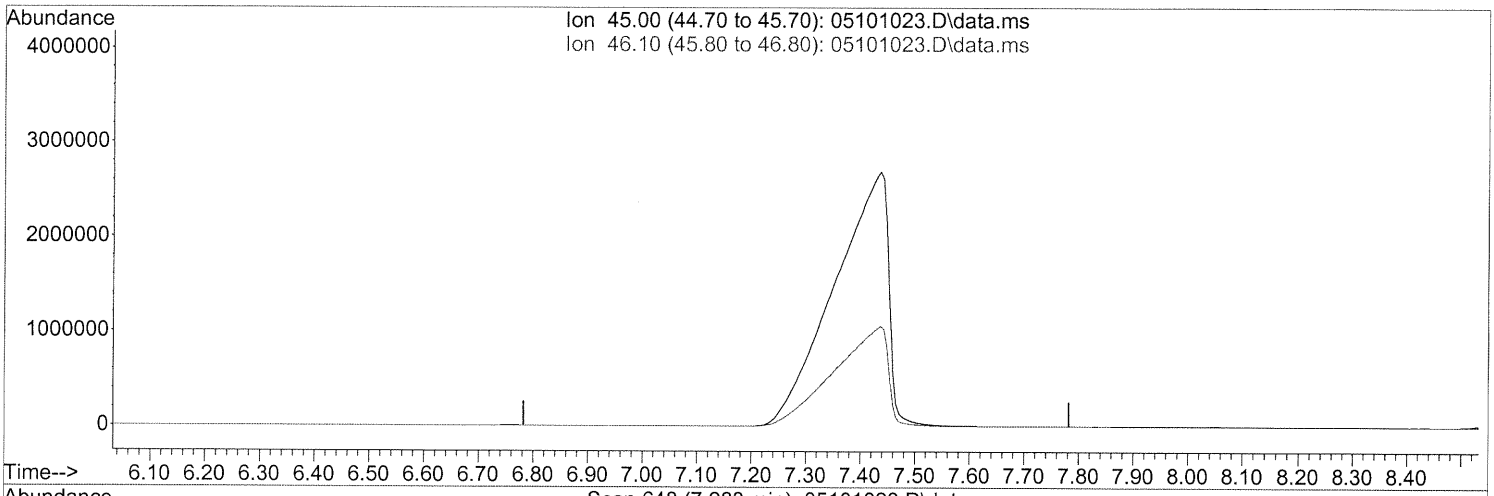
5/17/10

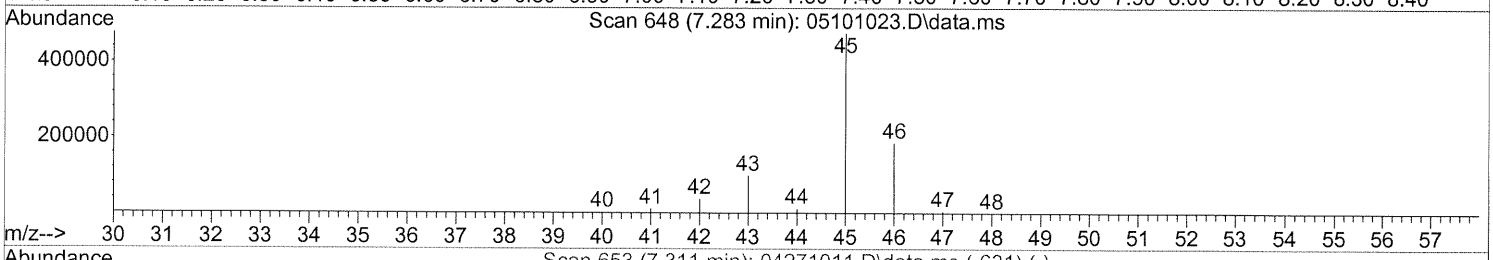
5/19/10

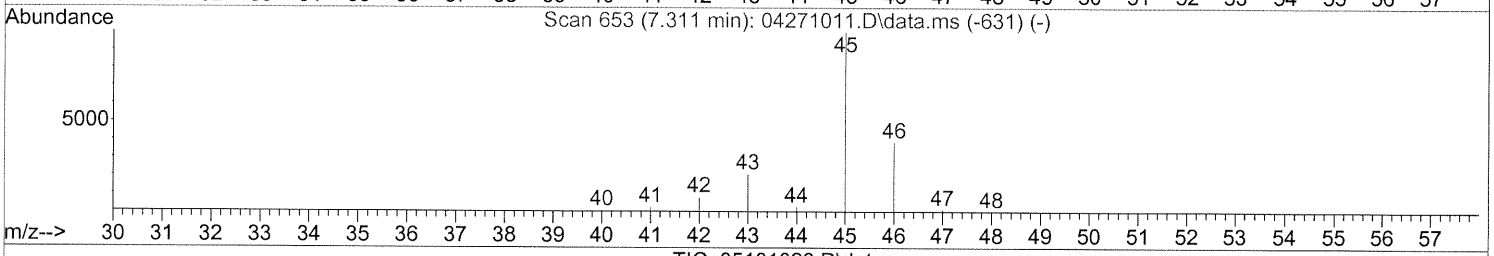
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101023.D\data.ms

(10) Ethanol (T)

7.283min (-7.283) 0.00ng

response 0

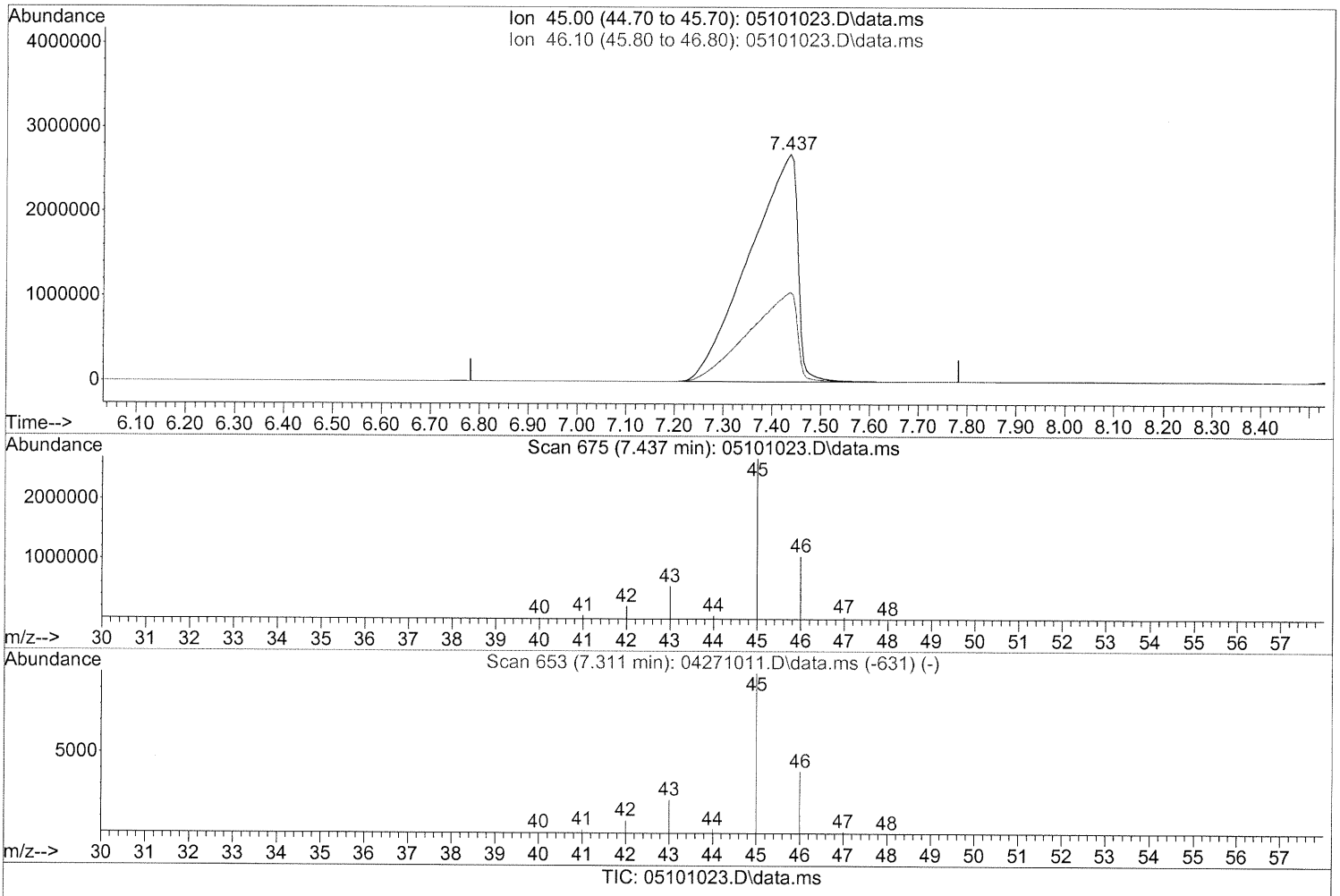
MP

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101023.D\data.ms

(10) Ethanol (T)

7.437min (+0.154) 1417.90ng m

response 18616455

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

MP → IC

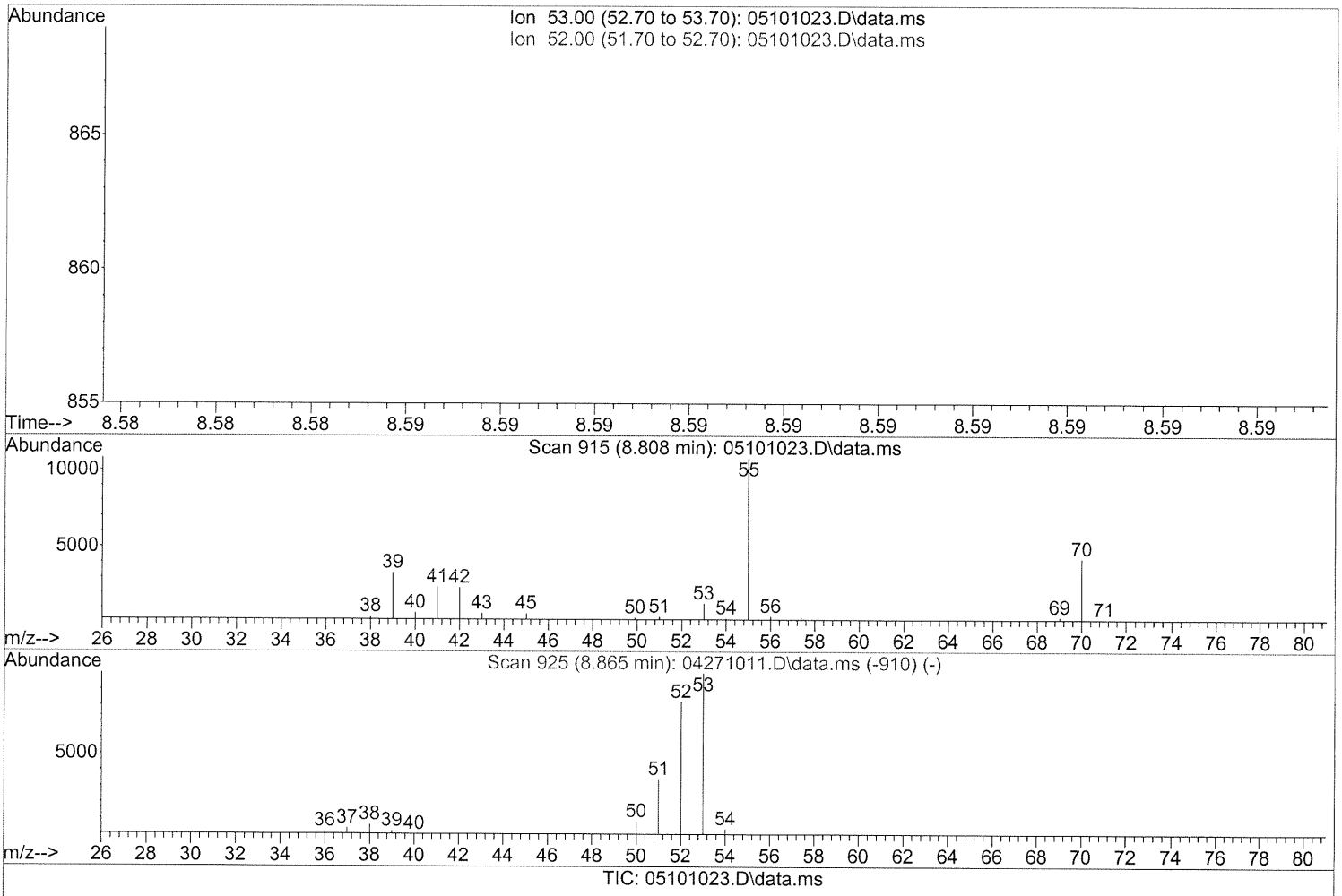
DH 5/17/10

5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.808min (-0.051) 0.21ng

response 5306

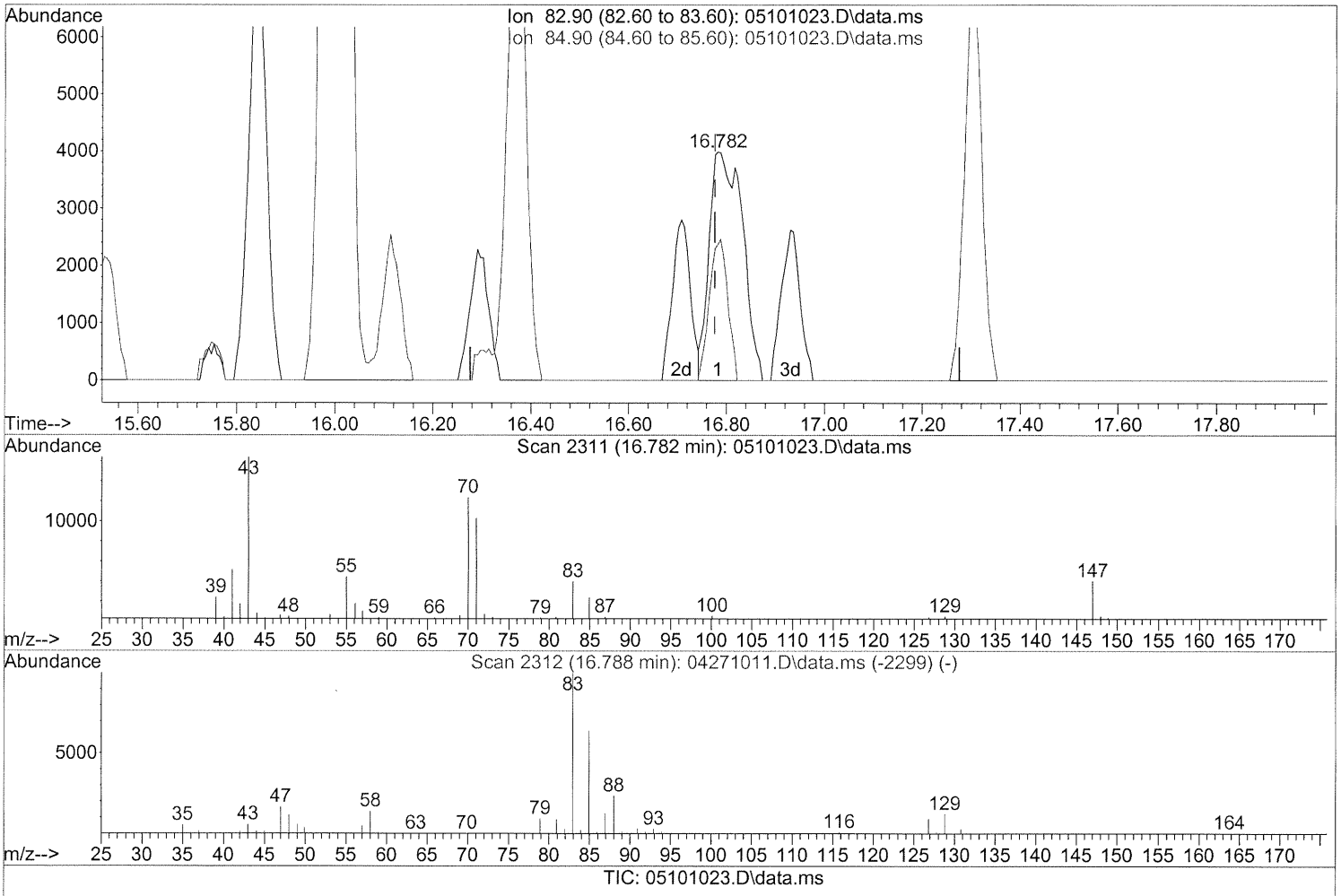
Ion	Exp%	Act%
53.00	100	100
52.00	84.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101023.D\data.ms

(46) Bromodichloromethane (T)

16.782min (+0.006) 0.61ng

response 18753

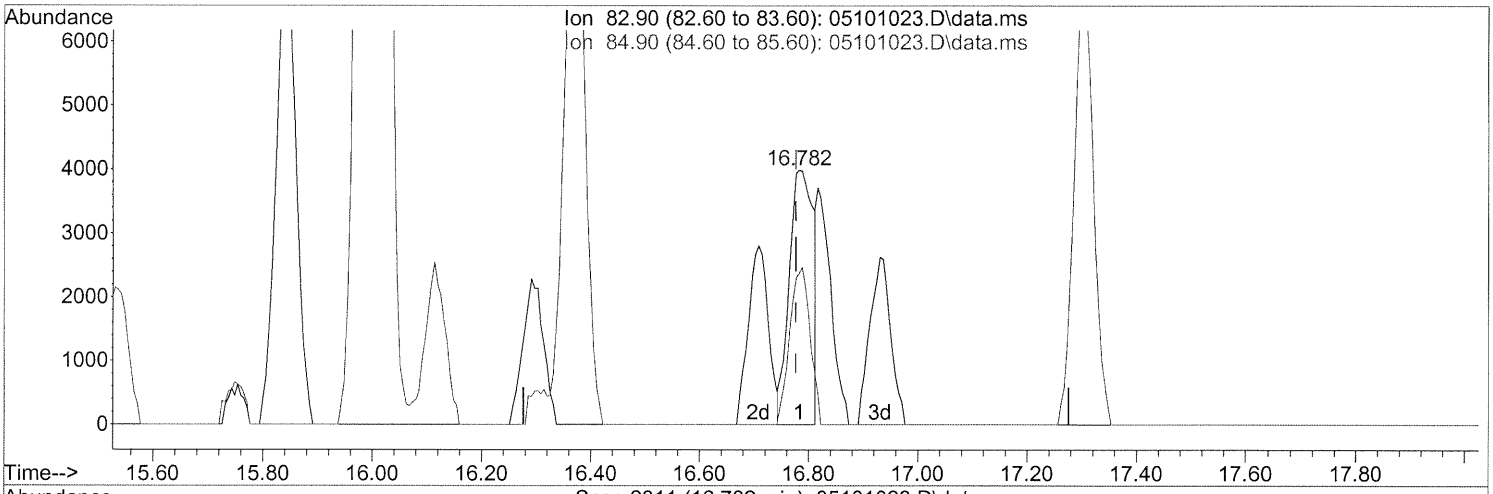
SH

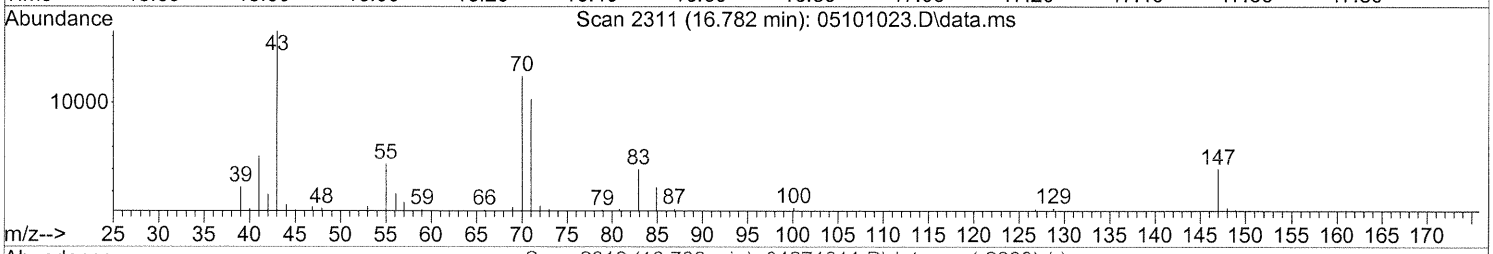
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	34.04#
0.00	0.00	0.00
0.00	0.00	0.00

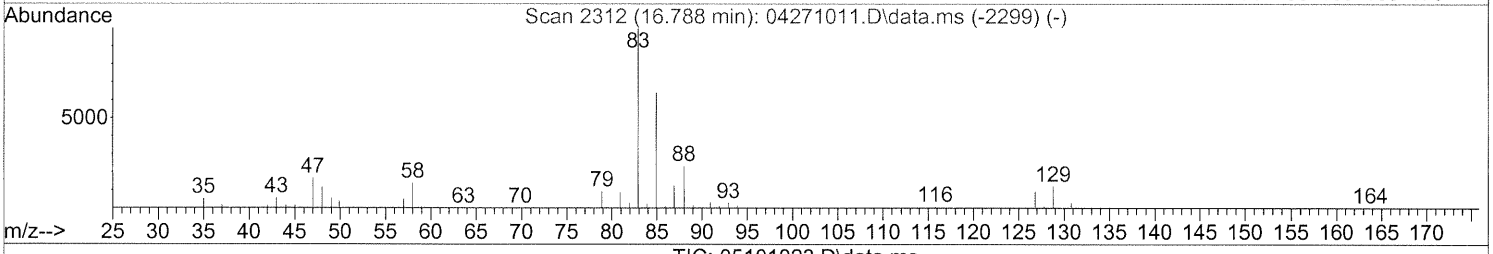
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101023.D\data.ms

(46) Bromodichloromethane (T)

16.782min (+0.006) 0.39ng m

response 12038

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	53.02
0.00	0.00	0.00
0.00	0.00	0.00

SH — 7 IC

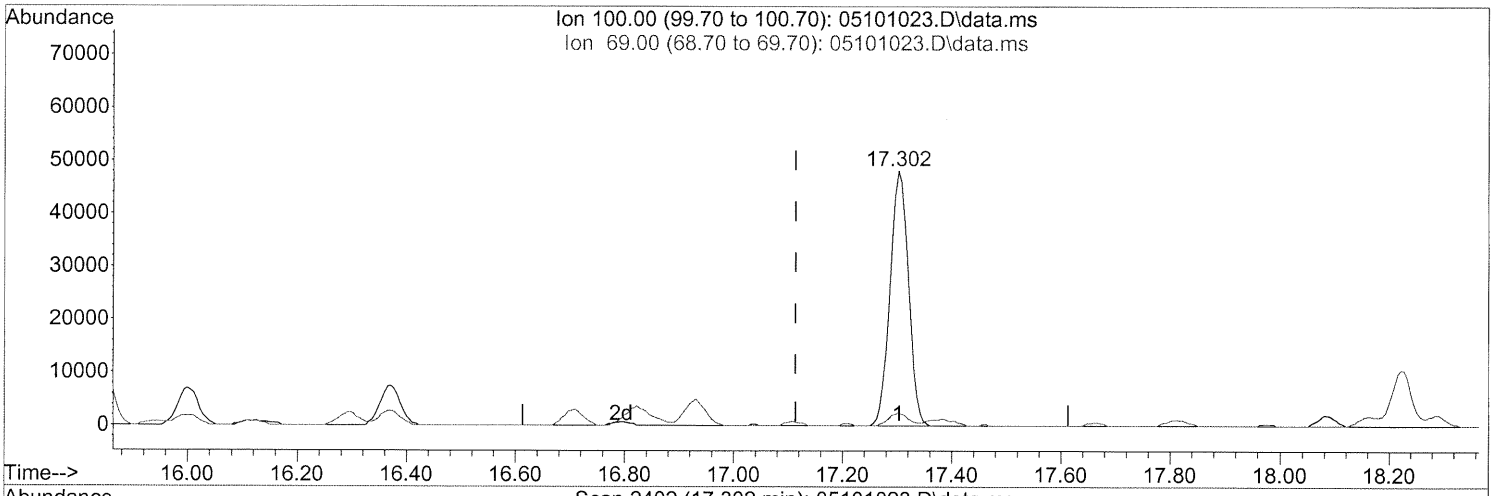
5/17/10

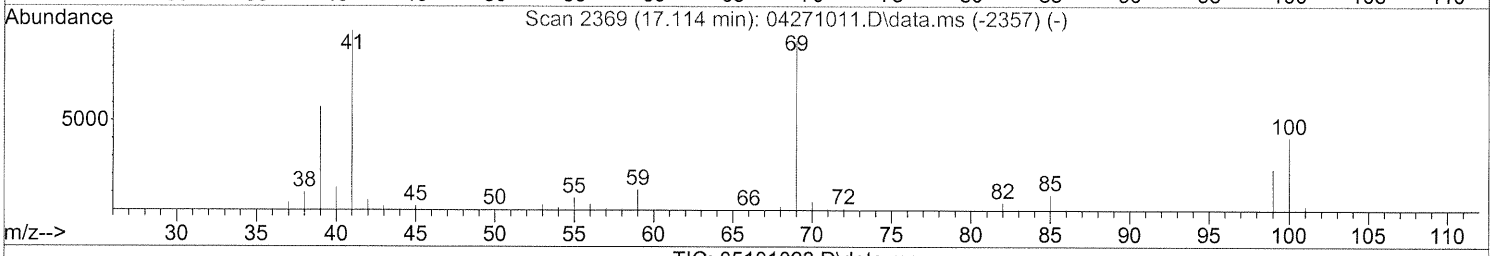
5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration





TIC: 05101023.D\data.ms

(50) Methyl Methacrylate (T)

17.302min (+0.189) 10.35ng

response 112630

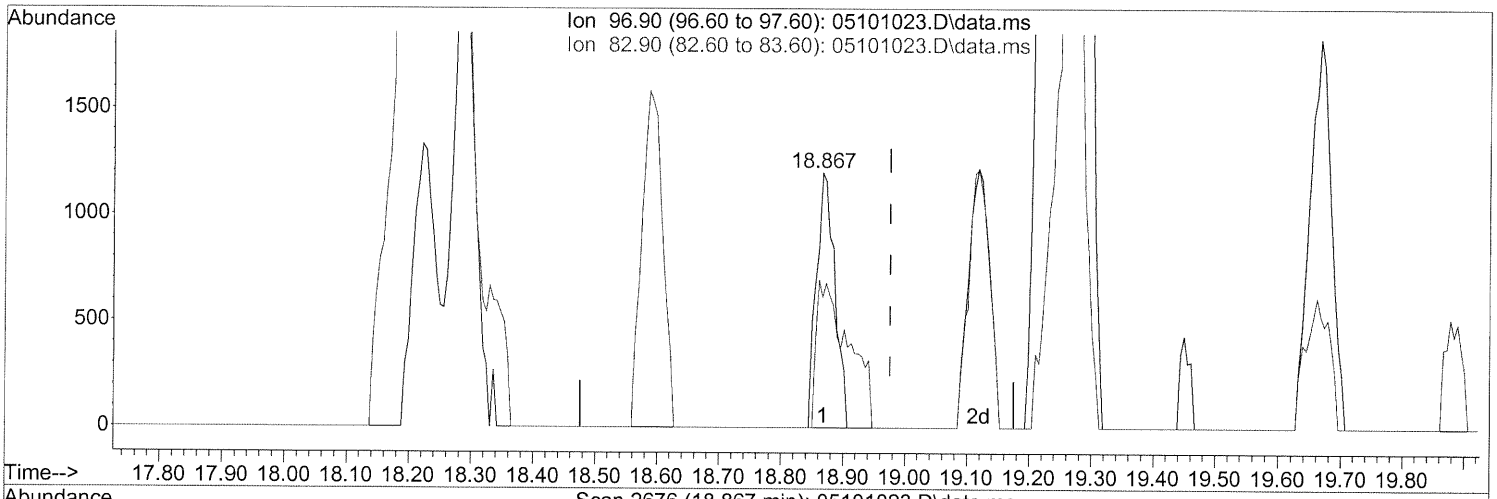
Ion	Exp%	Act%
100.00	100	100
69.00	311.50	5.34#
0.00	0.00	0.00
0.00	0.00	0.00

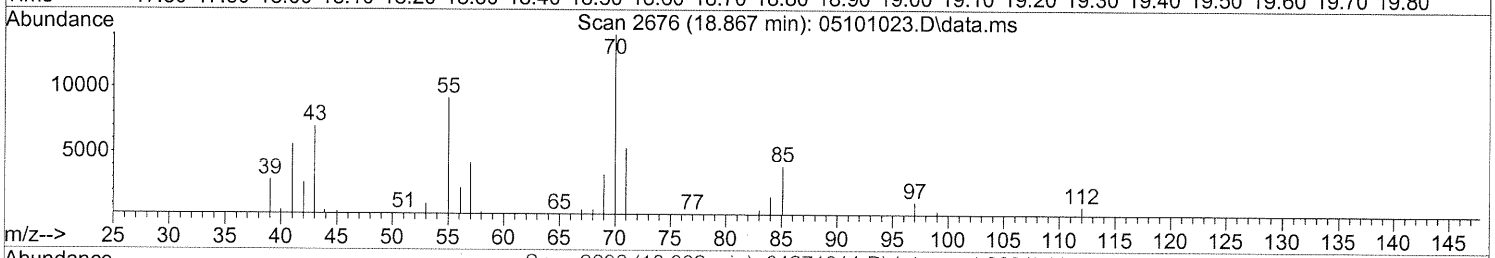
FP

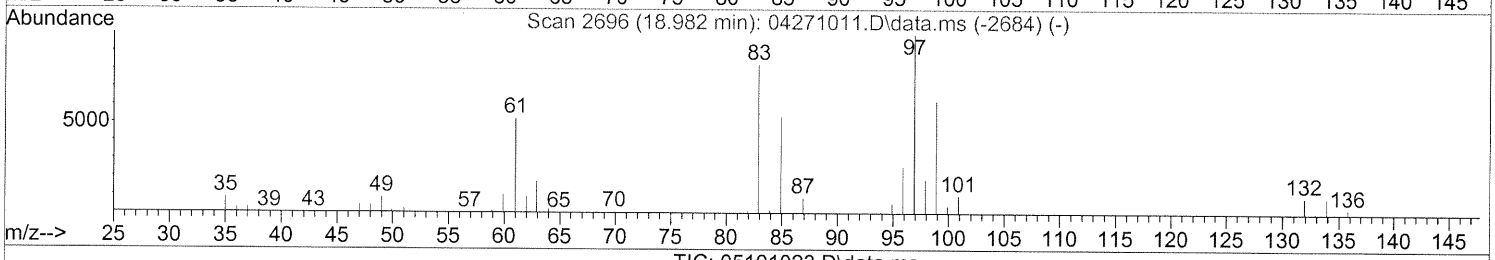
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101023.D\data.ms

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

18.867min (-0.109) 0.10ng

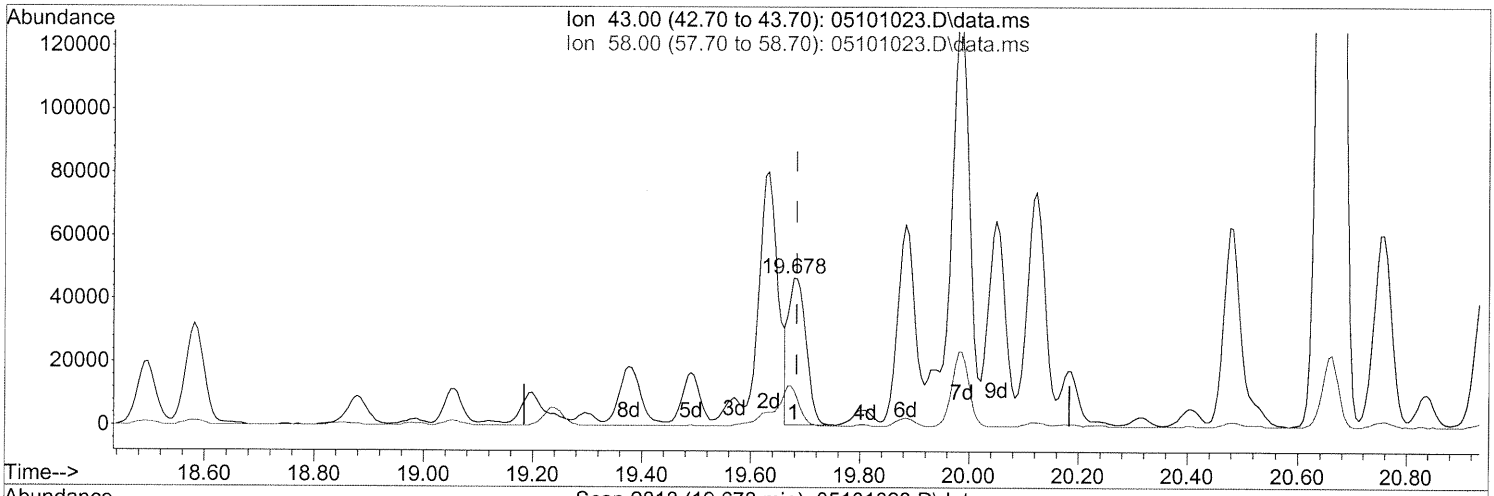
response 2478

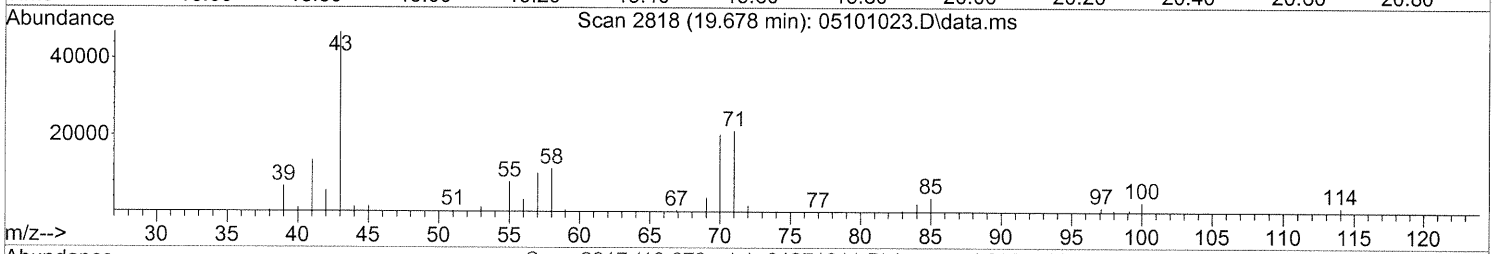
Ion	Exp%	Act%
96.90	100	100
82.90	89.40	100.65
0.00	0.00	0.00
0.00	0.00	0.00

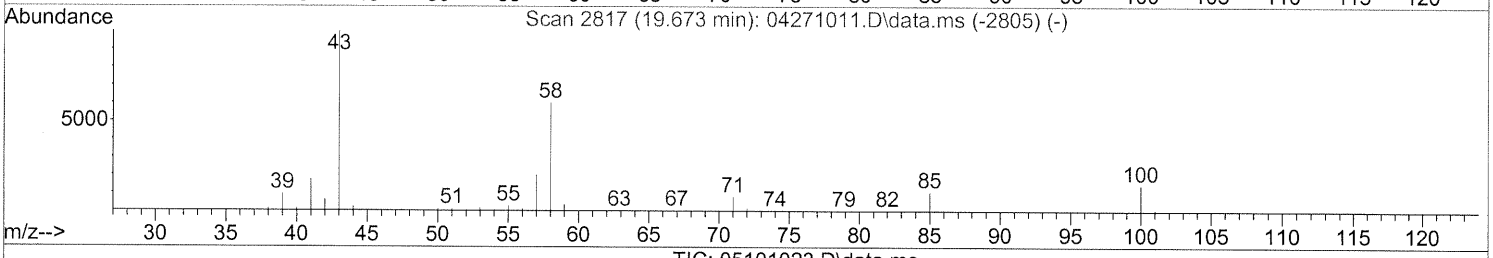
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101023.D\data.ms

(59) 2-Hexanone (T)

19.678min (-0.006) 1.83ng

response 104233

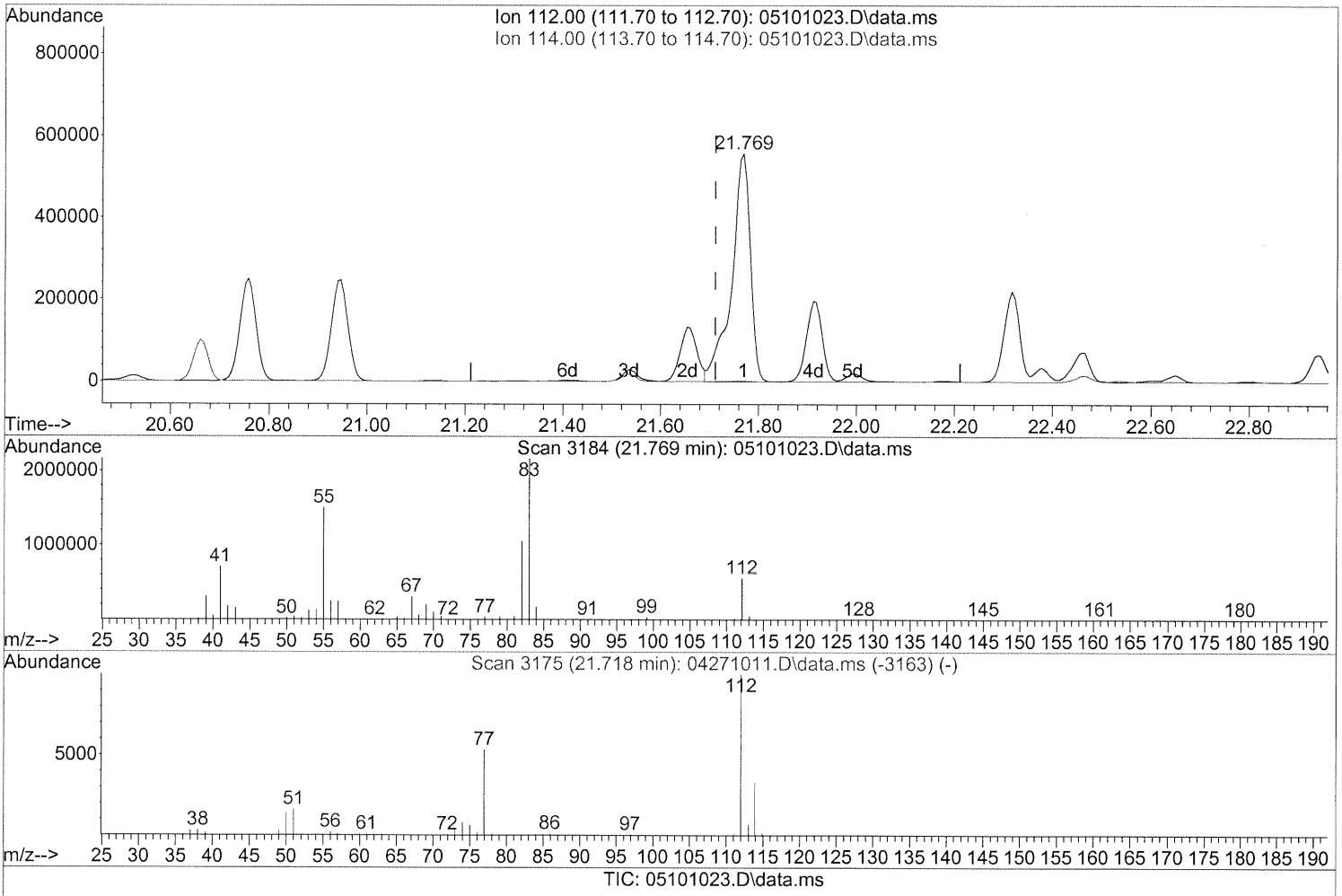
Ion	Exp%	Act%
43.00	100	100
58.00	53.30	37.28
0.00	0.00	0.00
0.00	0.00	0.00

FP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101023.D\data.ms

(65) Chlorobenzene (T)

21.769min (+0.057) 16.36ng

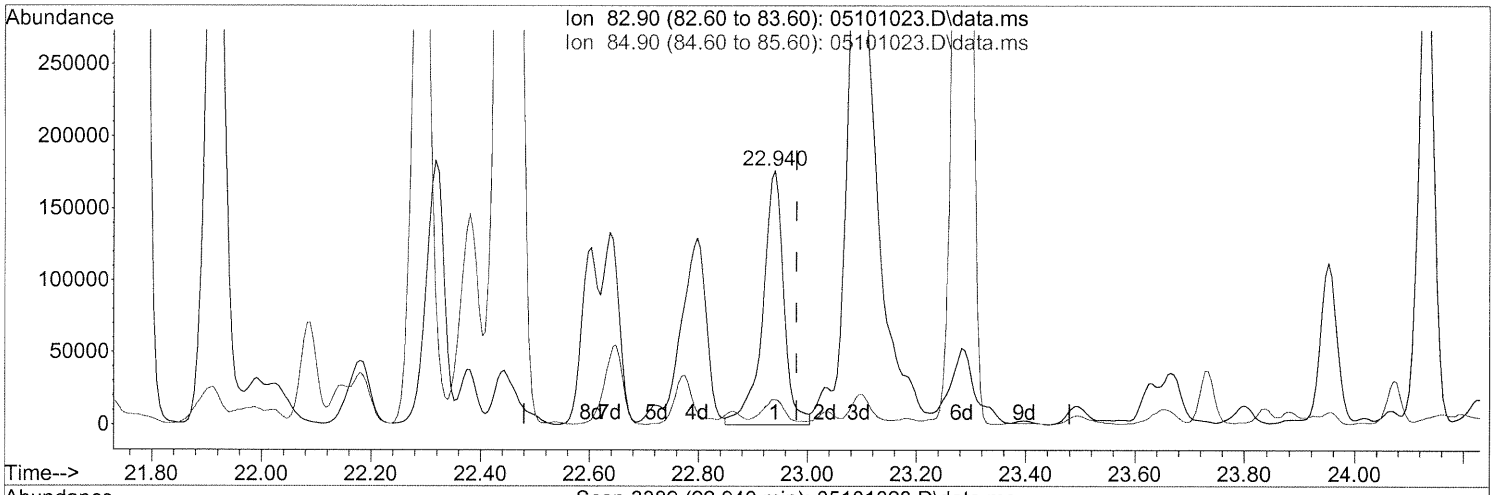
response 1462534

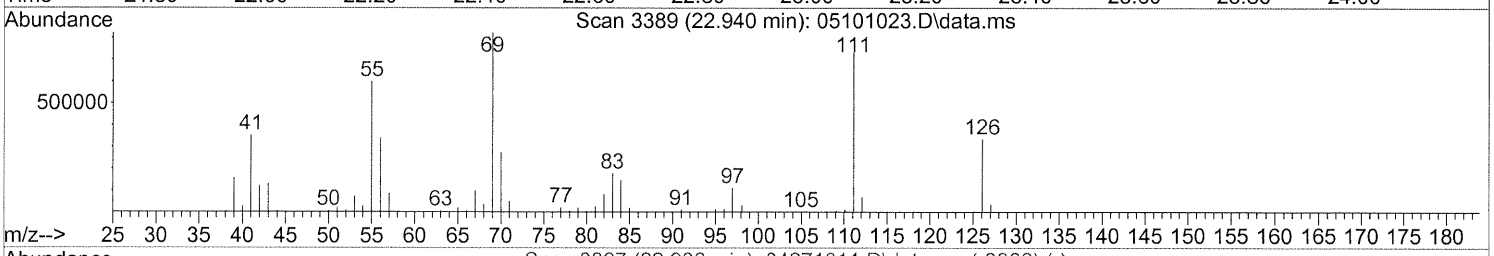
Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.40#
0.00	0.00	0.00
0.00	0.00	0.00

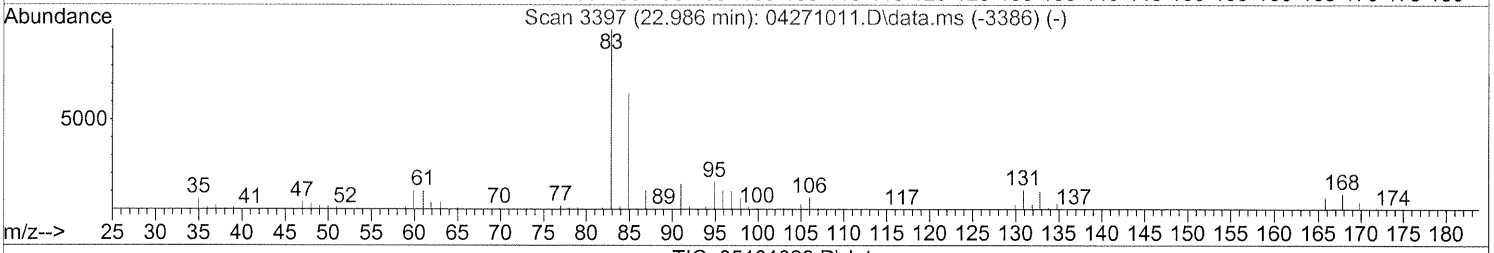
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101023.D\data.ms

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

22.940min (-0.040) 9.39ng

response 469649

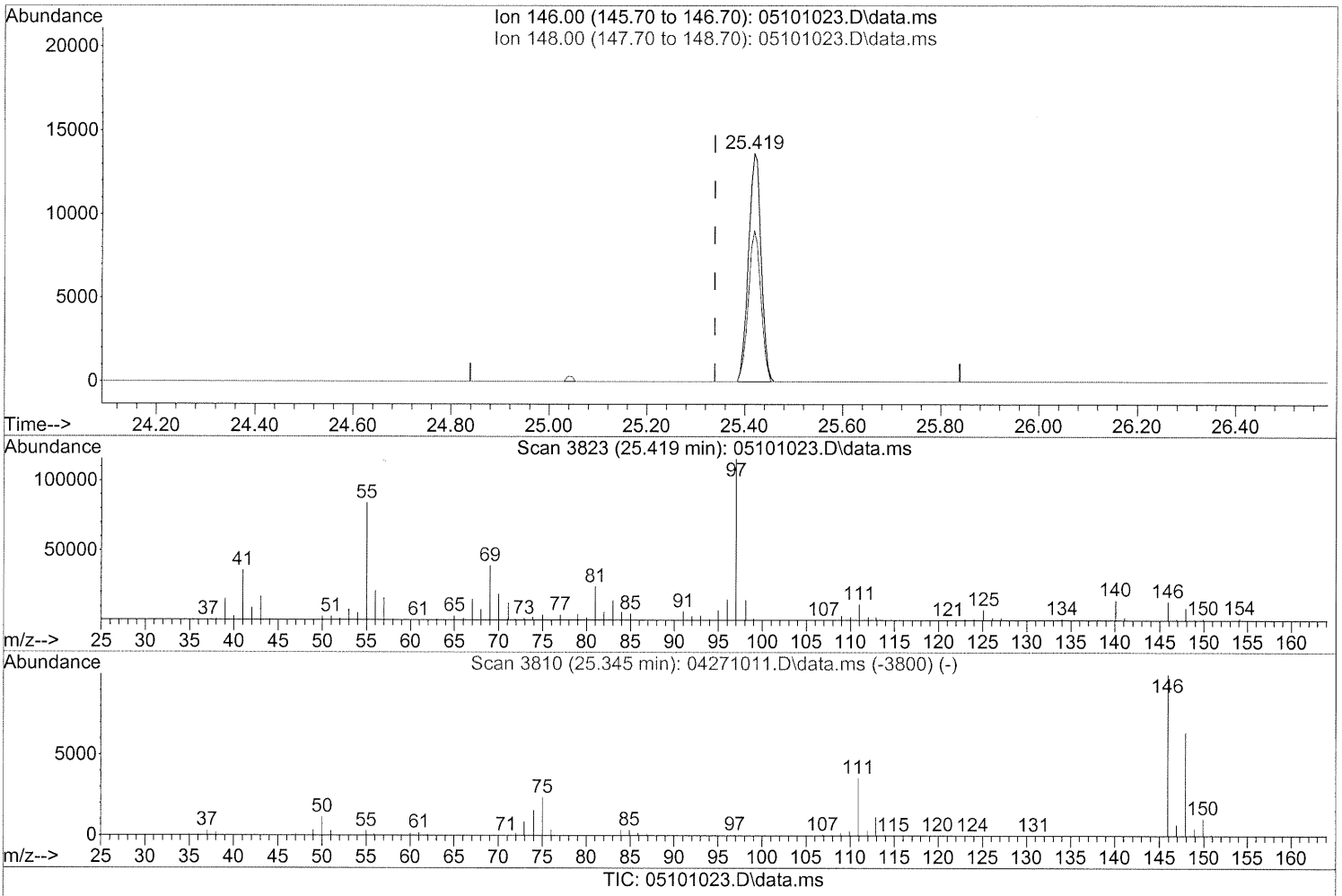
FP

Ion	Exp%	Act%
82.90	100	100
84.90	63.60	11.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101023.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.419min (+0.080) 0.32ng

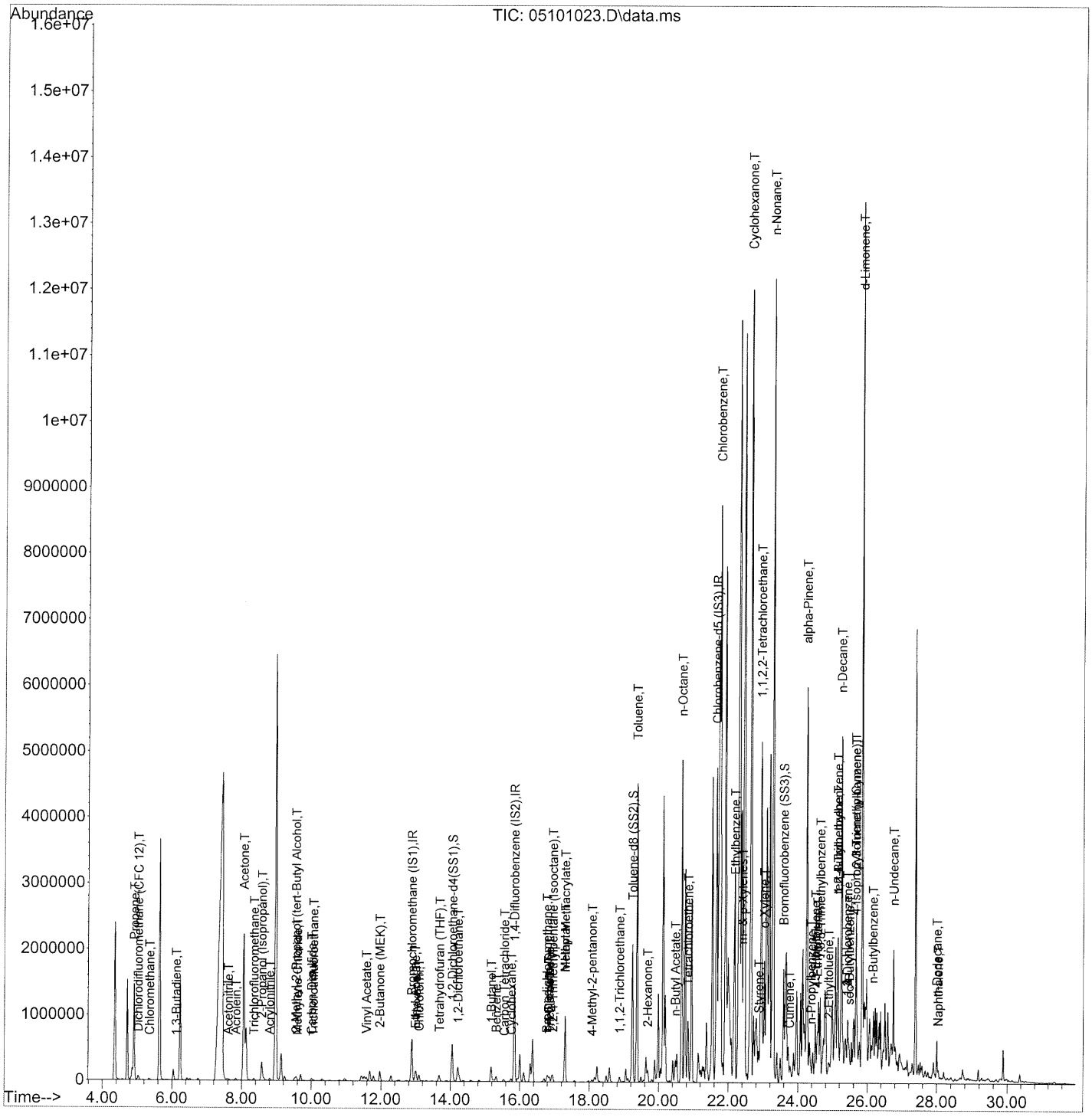
response 24553

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	65.13
0.00	0.00	0.00
0.00	0.00	0.00

FP

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	380489	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1803328	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	945771	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	566510	24.669	ng		0.00
Spiked Amount 25.000			Recovery =	98.68%			
57) Toluene-d8 (SS2)	19.24	98	1906380	19.985	ng		0.00
Spiked Amount 25.000			Recovery =	79.96%			
73) Bromofluorobenzene (SS3)	23.59	174	685061	20.503	ng		0.00
Spiked Amount 25.000			Recovery =	82.00%			
Target Compounds							Qvalue
2) Propene	4.91	42	149039	6.914	ng	#	1
3) Dichlorodifluoromethan...	5.03	85	64797	1.278	ng		99
4) Chloromethane	5.36	50	11480	0.374	ng		98
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	1432	N.D.			
6) Vinyl Chloride	5.83	62	2755	N.D.			
7) 1,3-Butadiene	6.12	54	3694	0.147	ng		93
8) Bromomethane	6.62	94	588	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	0.00	45	0	N.D.			
11) Acetonitrile	7.61	41	23083	0.726	ng		98
12) Acrolein	7.83	56	33070	2.554	ng		99
13) Acetone	8.05	58	1422220	84.769	ng		98
14) Trichlorofluoromethane	8.35	101	32715	0.709	ng		100
15) 2-Propanol (Isopropanol)	8.58	45	517130	10.579	ng		100
16) Acrylonitrile	8.81	53	5306	0.208	ng	#	7
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.56	59	56383	0.977	ng	#	78
19) Methylene Chloride	9.60	84	4716	0.187	ng	#	74
20) 3-Chloro-1-propene (Al...	9.77	41	875	N.D.			
21) Trichlorotrifluoroethane	10.06	151	7245	0.313	ng	#	78
22) Carbon Disulfide	10.01	76	72766	0.893	ng		100
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	11.50	73	899	N.D.			
26) Vinyl Acetate	11.58	86	19517	3.343	ng	#	1
27) 2-Butanone (MEK)	11.97	72	73240	4.753	ng	#	67
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.02	87	962	N.D.			
30) Ethyl Acetate	12.99	61	24624	3.009	ng		87
31) n-Hexane	13.02	57	67795	1.738	ng	#	94

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.10	83	102014	2.461	ng		99
34) Tetrahydrofuran (THF)	13.69	72	18604	1.243	ng	#	61
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	14.22	62	249058	8.005	ng		100
38) 1,1,1-Trichloroethane	14.62	97	393	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	15.18	56	199236	9.161	ng	#	75
41) Benzene	15.32	78	106423	1.037	ng		98
42) Carbon Tetrachloride	15.55	117	9119	0.289	ng		96
43) Cyclohexane	15.75	84	26686	0.698	ng	#	78
44) tert-Amyl Methyl Ether	16.21	73	89	N.D.			
45) 1,2-Dichloropropane	16.37	63	1115	N.D.			
46) Bromodichloromethane	16.78	83	18753	0.608	ng	#	63
47) Trichloroethene	16.86	130	26077	0.910	ng		100
48) 1,4-Dioxane	16.83	88	3712	0.185	ng		89
49) 2,2,4-Trimethylpentane...	16.95	57	91434	0.970	ng		67
50) Methyl Methacrylate	17.30	100	112630	10.354	ng	#	1
51) n-Heptane	17.30	71	349682	14.318	ng		88
52) cis-1,3-Dichloropropene	17.86	75	107	N.D.			
53) 4-Methyl-2-pentanone	18.08	58	11295	0.581	ng		88
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	18.87	97	2478	0.105	ng		88
58) Toluene	19.37	91	4523717	33.626	ng		98
59) 2-Hexanone	19.68	43	104233	1.830	ng		77
60) Dibromochloromethane	19.91	129	1301	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) n-Butyl Acetate	20.48	43	145029	2.231	ng		76
63) n-Octane	20.66	57	1052943	43.617	ng	#	80
64) Tetrachloroethene	20.85	166	165922	3.947	ng		99
65) Chlorobenzene	21.77	112	1462534	16.361	ng	#	43
66) Ethylbenzene	22.19	91	193715	1.314	ng		100
67) m- & p-Xylenes	22.40	91	449568	3.859	ng		95
68) Bromoform	22.52	173	1102	N.D.			
69) Styrene	22.88	104	63657	0.694	ng		96
70) o-Xylene	23.03	91	185590	1.562	ng		96
71) n-Nonane	23.28	43	4528866	87.404	ng		85
72) 1,1,2,2-Tetrachloroethane	22.94	83	469649	9.389	ng	#	33
74) Cumene	23.76	105	24845	0.153	ng		96
75) alpha-Pinene	24.25	93	2733676	36.297	ng		94
76) n-Propylbenzene	24.38	91	69391	0.369	ng		95
77) 3-Ethyltoluene	24.50	105	192192	1.293	ng		97
78) 4-Ethyltoluene	24.56	105	101456	0.677	ng		97
79) 1,3,5-Trimethylbenzene	24.64	105	103916	0.850	ng		94

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101023.D
Acq On : 11 May 2010 3:46
Operator : WA
Sample : P1001603-006 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 06:27:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

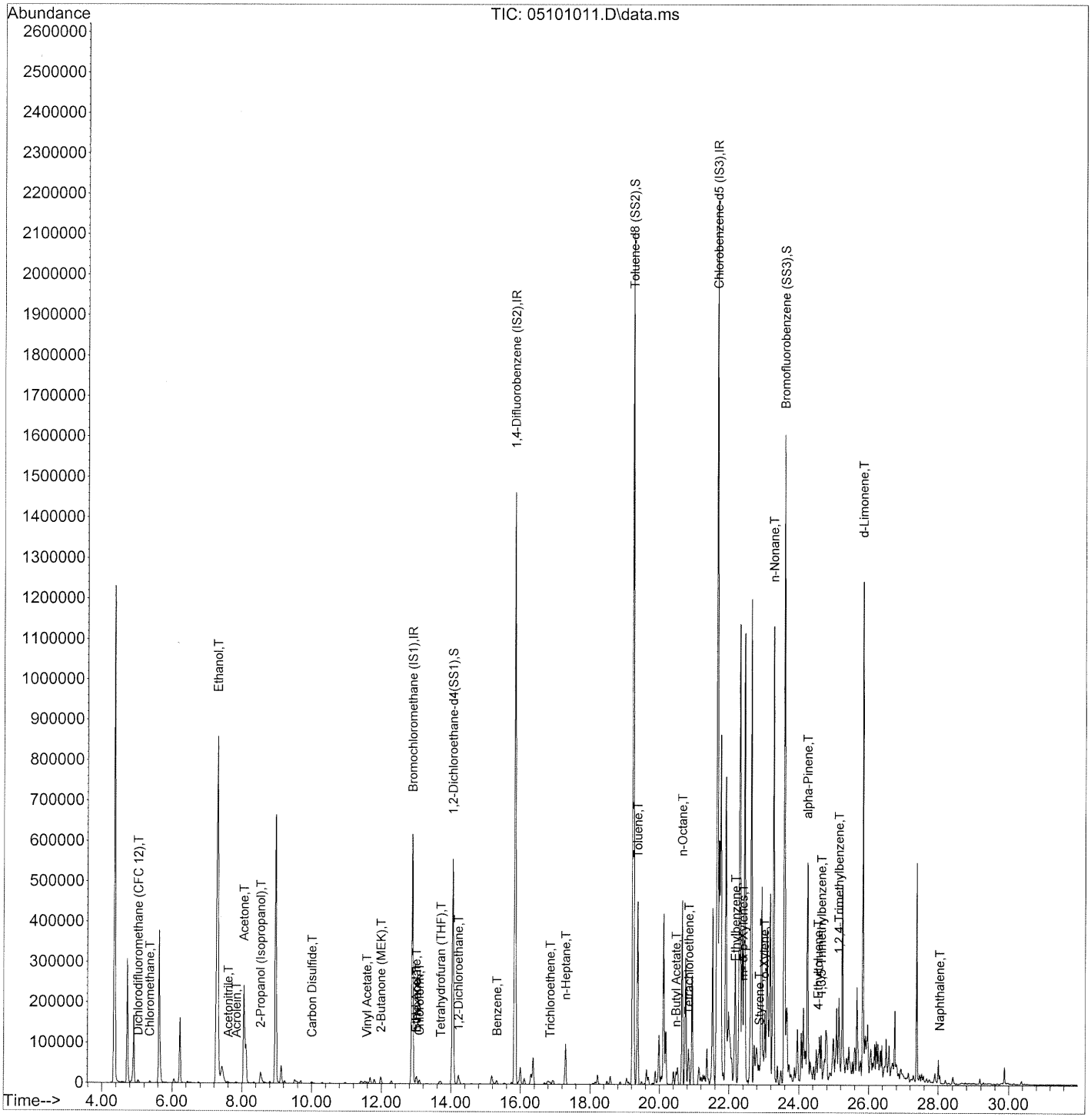
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	3056	N.D.			
81) 2-Ethyltoluene	24.88	105	113313	0.735	ng		96
82) 1,2,4-Trimethylbenzene	25.15	105	346454	2.741	ng		97
83) n-Decane	25.25	57	1786382	31.014	ng		87
84) Benzyl Chloride	25.27	91	4925	N.D.			
85) 1,3-Dichlorobenzene	25.42	146	24553	0.319	ng		98
86) 1,4-Dichlorobenzene	25.42	146	24553	0.307	ng		98
87) sec-Butylbenzene	25.48	105	25185	0.147	ng	#	80
88) 4-Isopropyltoluene (p-...	25.66	119	186049	1.140	ng		97
89) 1,2,3-Trimethylbenzene	25.67	105	143835	1.129	ng		91
90) 1,2-Dichlorobenzene	25.42	146	24553	0.335	ng		98
91) d-Limonene	25.84	68	3279401	74.722	ng		77
92) 1,2-Dibromo-3-Chloropr...	26.22	157	216	N.D.			
93) n-Undecane	26.76	57	617693	10.830	ng		84
94) 1,2,4-Trichlorobenzene	27.90	180	342	N.D.			
95) Naphthalene	28.05	128	73756	0.460	ng		94
96) n-Dodecane	28.01	57	191961	3.246	ng		90
97) Hexachlorobutadiene	0.00	225	0	N.D.			
98) Cyclohexanone	22.64	55	1396666	36.190	ng	#	23
99) tert-Butylbenzene	25.15	119	44731	0.342	ng	#	57
100) n-Butylbenzene	26.16	91	56103	0.431	ng	#	42

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 14 07:02:22 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 14 07:02:22 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	369334	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1776298	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	766202	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	556228	24.953	ng		0.00
Spiked Amount 25.000			Recovery =	99.80%			✓
57) Toluene-d8 (SS2)	19.24	98	1874210	24.253	ng		0.00
Spiked Amount 25.000			Recovery =	97.00%			✓
73) Bromofluorobenzene (SS3)	23.59	174	644780	23.820	ng		0.00
Spiked Amount 25.000			Recovery =	95.28%			✓
Target Compounds							Qvalue
3) Dichlorodifluoromethan...	5.03	85	6826	0.139	ng		95
4) Chloromethane	5.36	50	4189	0.140	ng		88
10) Ethanol	7.29	45	1800105m	141.244	ng		
11) Acetonitrile	7.61	41	3427	0.111	ng		90
12) Acrolein	7.84	56	3184	0.253	ng		91
13) Acetone	8.05	58	140779	8.644	ng		99
15) 2-Propanol (Isopropanol)	8.53	45	63416	1.336	ng		93
22) Carbon Disulfide	10.01	76	8340	0.105	ng		84
26) Vinyl Acetate	11.58	86	1406	0.248	ng	#	1
27) 2-Butanone (MEK)	11.98	72	8458	0.565	ng	#	69
30) Ethyl Acetate	13.00	61	1721	0.217	ng		92
31) n-Hexane	13.01	57	6734	0.178	ng		97
32) Chloroform	13.09	83	10190	0.253	ng		99
34) Tetrahydrofuran (THF)	13.71	72	1941	0.134	ng	#	57
36) 1,2-Dichloroethane	14.21	62	24735	0.819	ng		100
41) Benzene	15.33	78	12819	0.127	ng		94
47) Trichloroethene	16.86	130	2681	0.095	ng		98
51) n-Heptane	17.30	71	33533	1.394	ng		89
58) Toluene	19.37	91	446144	4.093	ng		98
62) n-Butyl Acetate	20.48	43	14103	0.268	ng	#	74
63) n-Octane	20.66	57	99005	5.062	ng	#	79
64) Tetrachloroethene	20.85	166	16094	0.473	ng		100
66) Ethylbenzene	22.19	91	19968	0.167	ng		98
67) m- & p-Xylenes	22.40	91	44133	0.468	ng		95
69) Styrene	22.87	104	7168	0.097	ng		96
70) o-Xylene	23.01	91	19500	0.203	ng		100
71) n-Nonane	23.27	43	417725	9.951	ng		86
75) alpha-Pinene	24.24	93	256345	4.201	ng		94
78) 4-Ethyltoluene	24.55	105	11647	0.096	ng		86
79) 1,3,5-Trimethylbenzene	24.64	105	11194	0.113	ng		88

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 14 07:02:22 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) 1,2,4-Trimethylbenzene	25.15	105	34835	0.340	ng	95
91) d-Limonene	25.84	68	296377	8.336	ng	77
95) Naphthalene	28.05	128	15511	0.119	ng	99

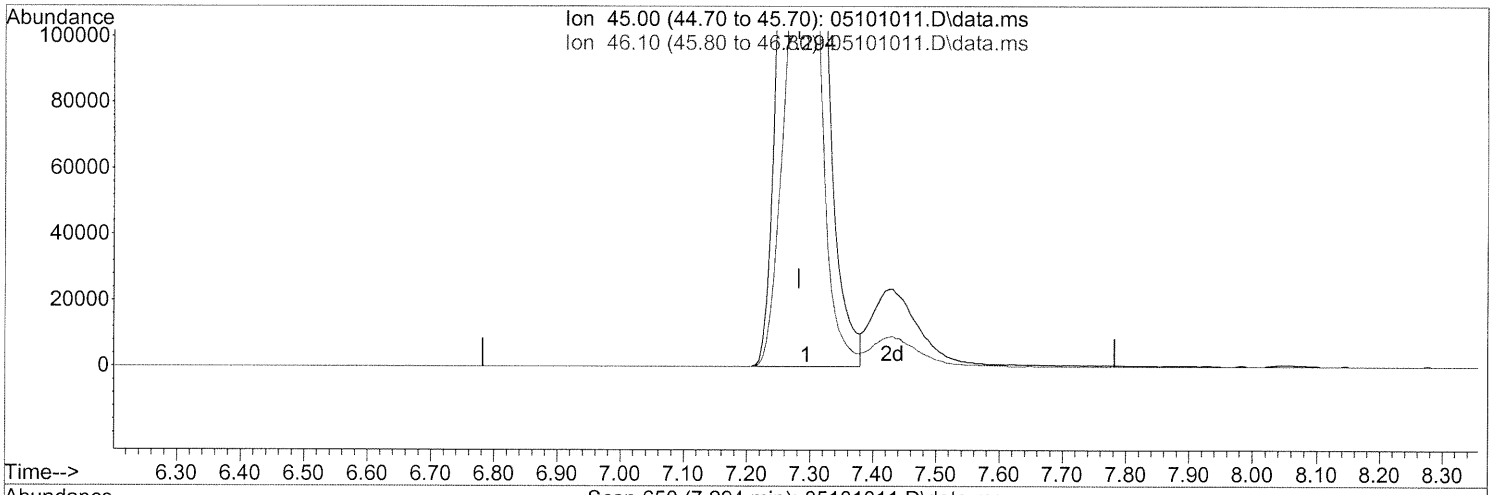
(#) = qualifier out of range (m) = manual integration (+) = signals summed

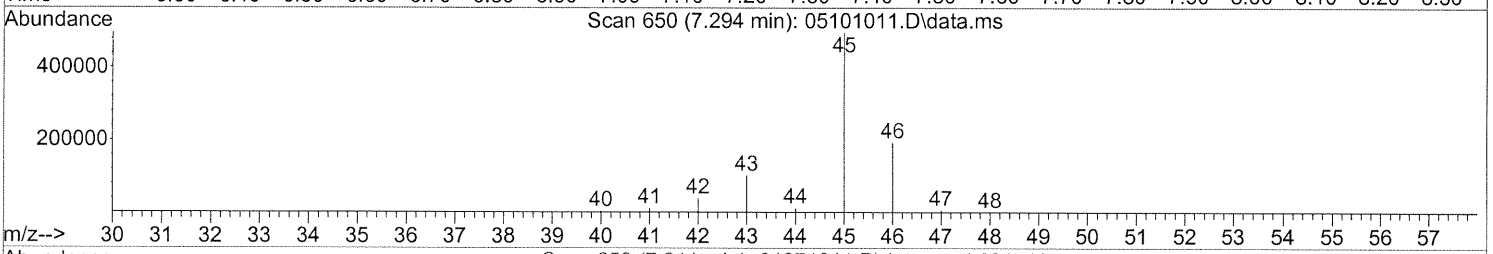
5/17/10

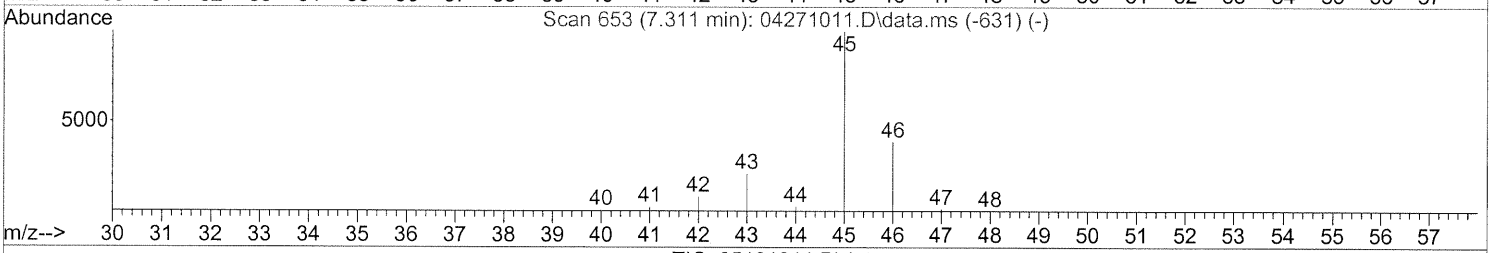
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101011.D\data.ms

(10) Ethanol (T)

7.294min (+0.011) 131.58ng

response 1676883

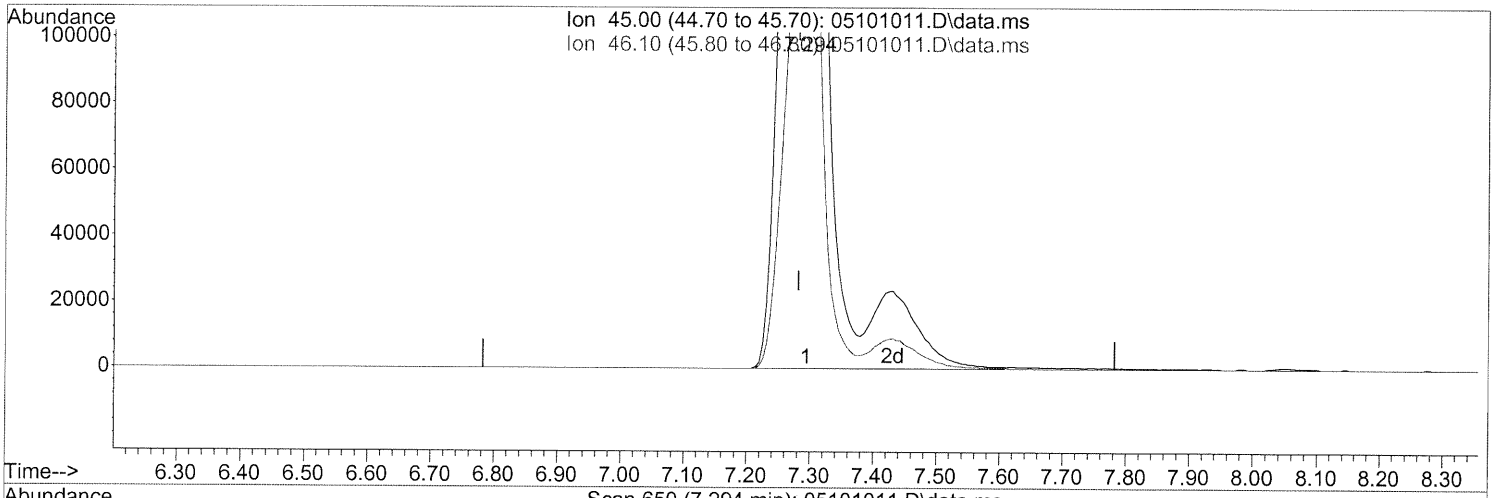
SP

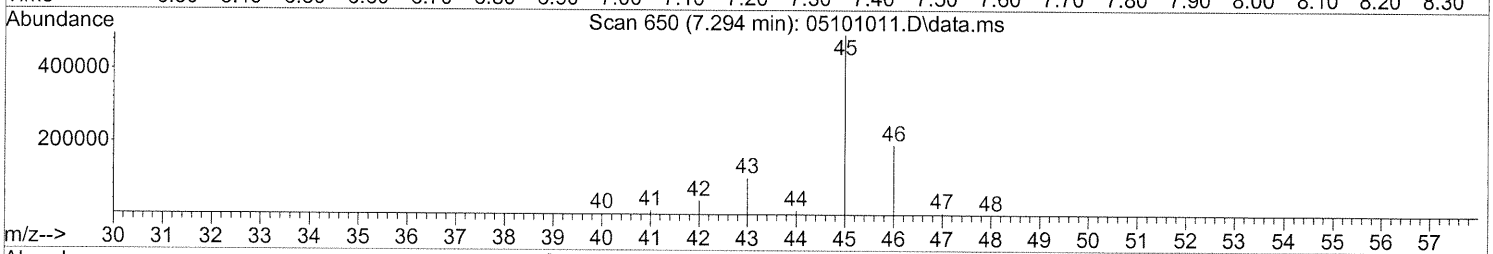
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.63
0.00	0.00	0.00
0.00	0.00	0.00

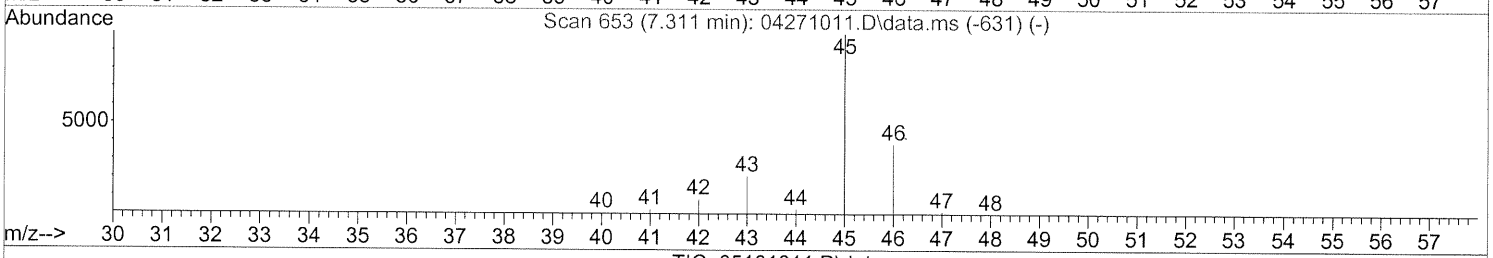
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101011.D\data.ms

(10) Ethanol (T)

7.294min (+0.011) 141.24ng m

response 1800105

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	35.98
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

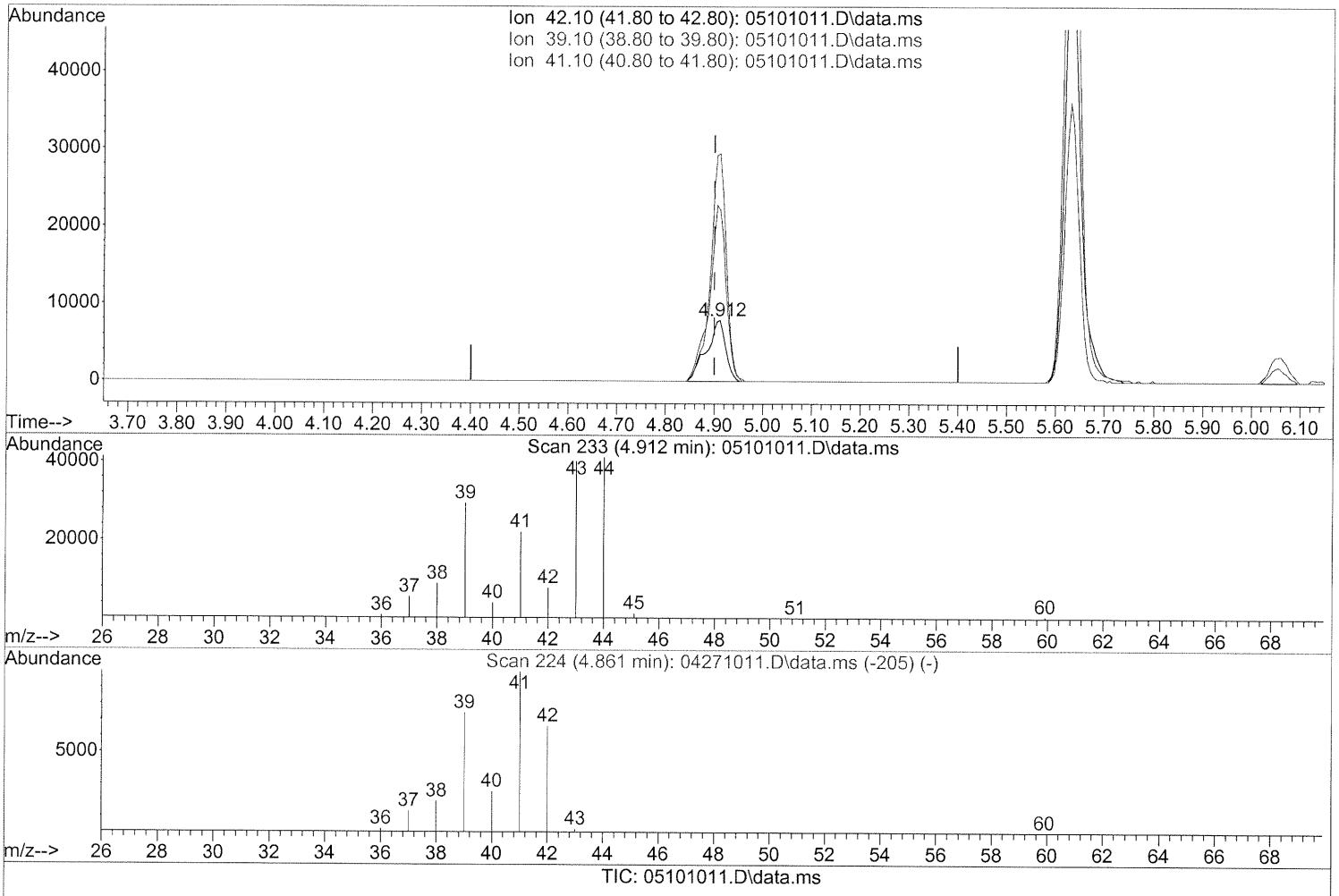
MM 5/17/10

5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101011.D\data.ms

(2) Propene (T)

4.912min (+0.011) 1.02ng

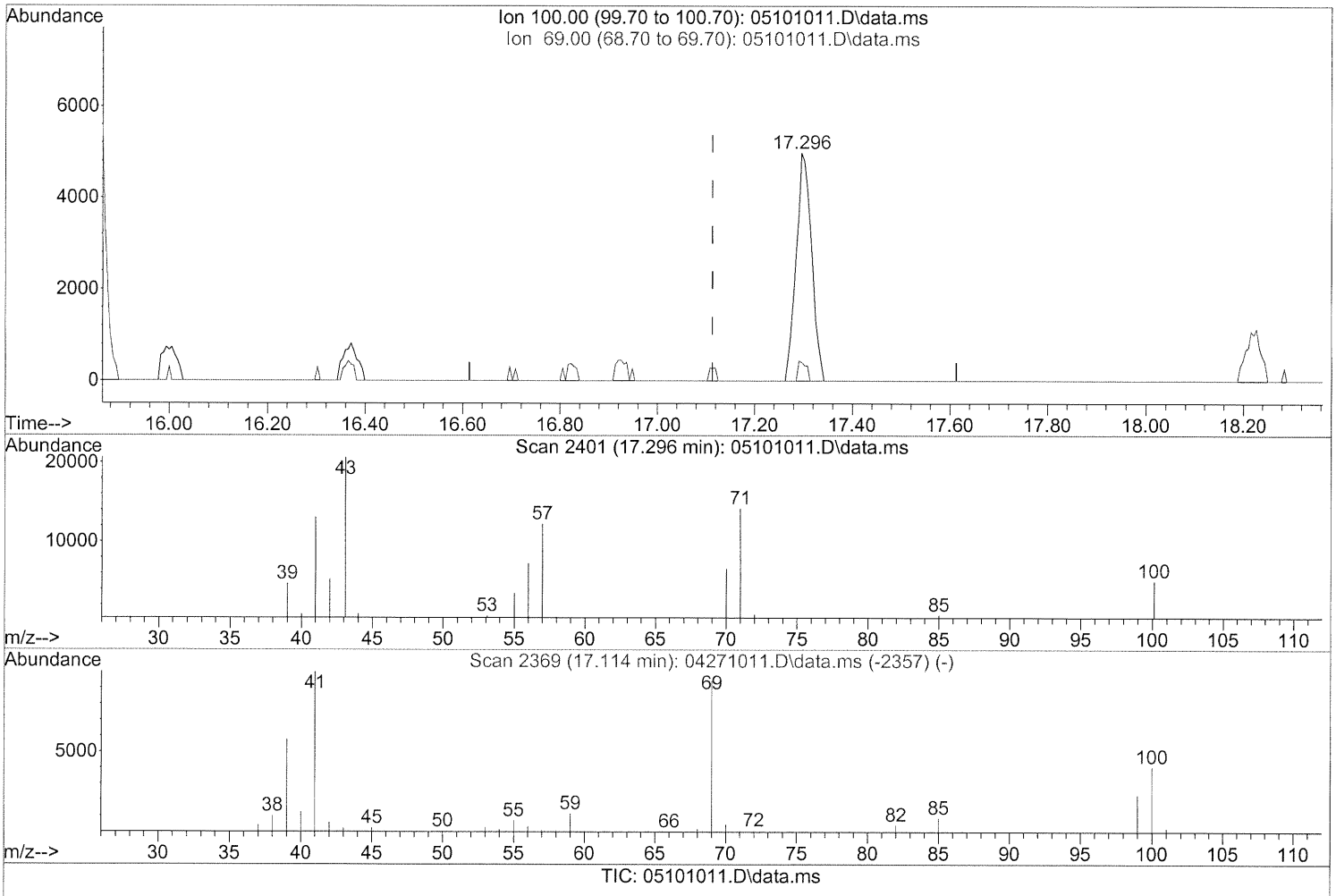
response 21389

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	310.32#
41.10	153.90	254.78#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101011.D\data.ms

(50) Methyl Methacrylate (T)

17.296min (+0.183) 1.02ng

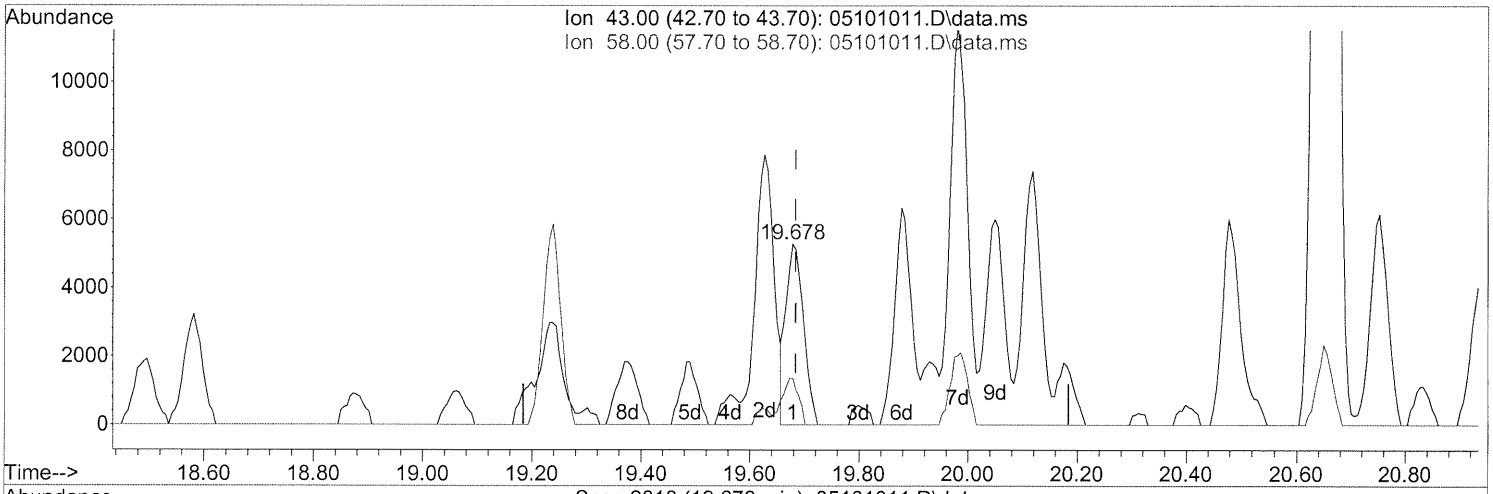
response 10901

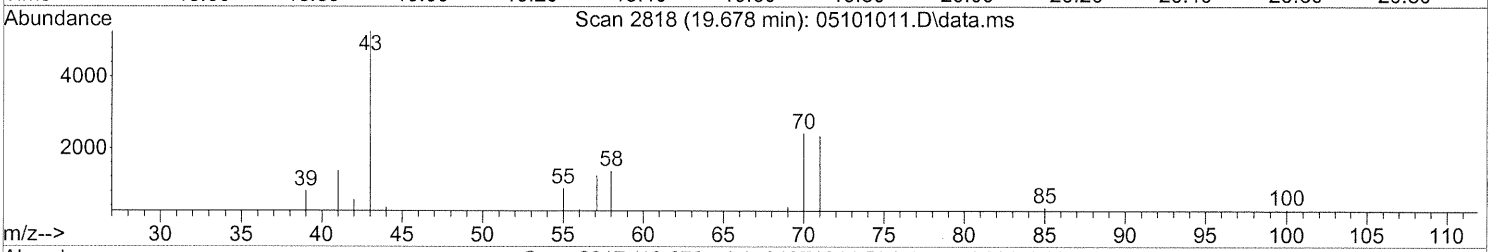
Ion	Exp%	Act%
100.00	100	100
69.00	311.50	4.73#
0.00	0.00	0.00
0.00	0.00	0.00

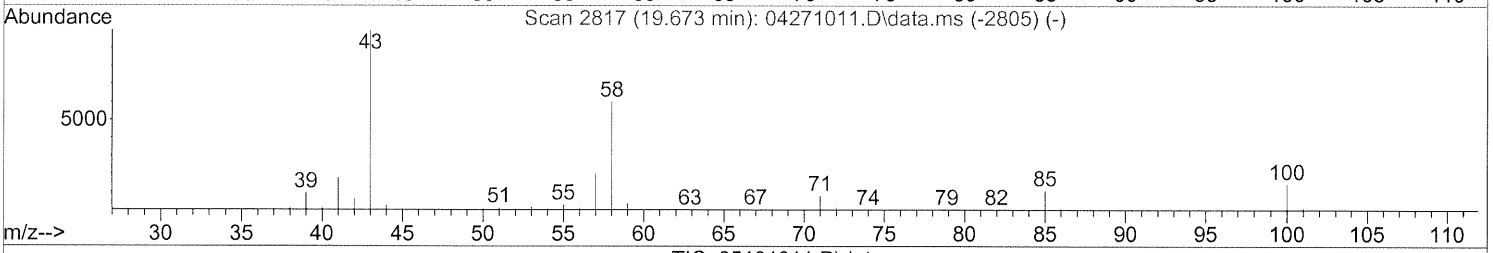
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101011.D\data.ms

(59) 2-Hexanone (T)

19.678min (-0.006) 0.26ng

response 11886

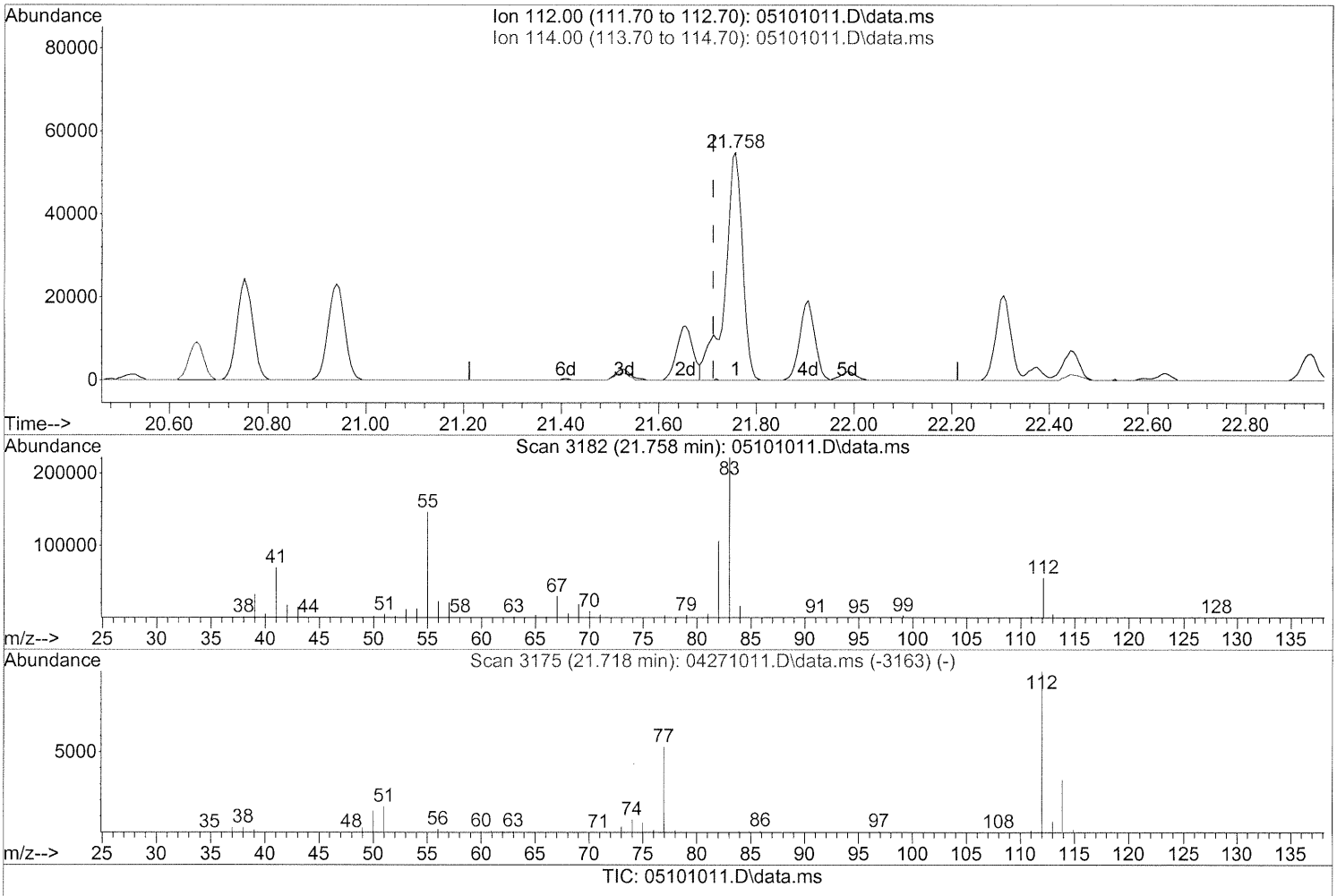
Ion	Exp%	Act%
43.00	100	100
58.00	53.30	24.28#
0.00	0.00	0.00
0.00	0.00	0.00

JP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101011.D\data.ms

(65) Chlorobenzene (T)

21.758min (+0.046) 1.91ng

response 138172

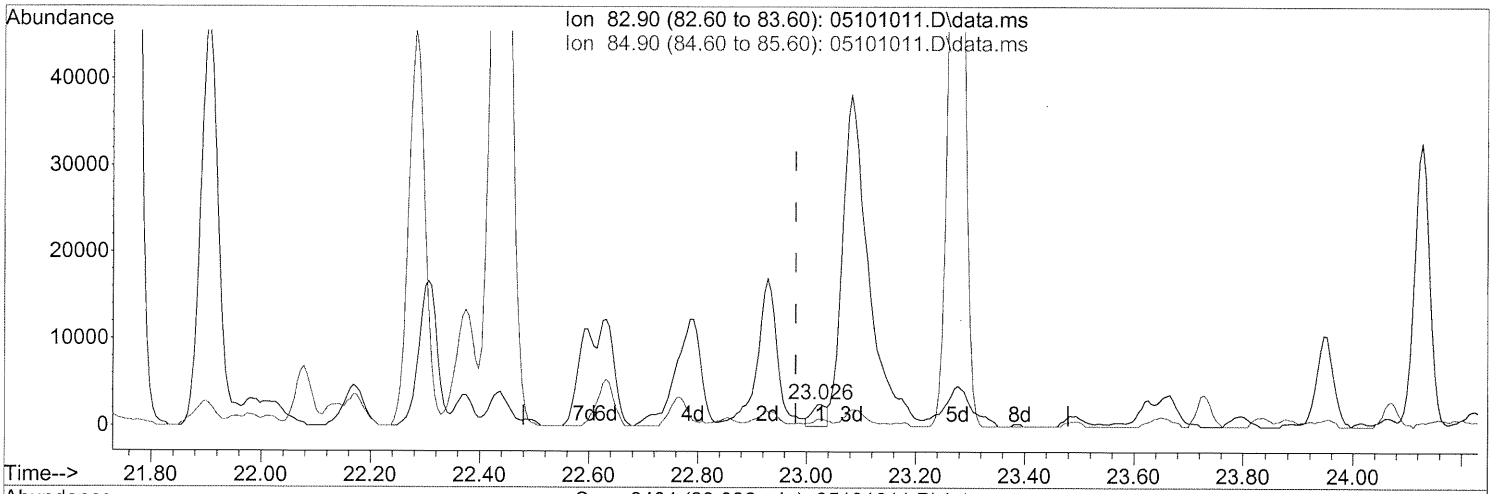
Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

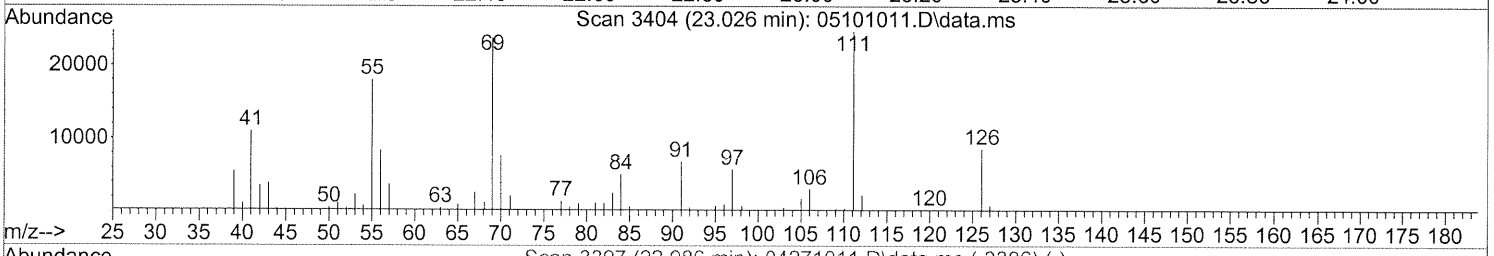
FP

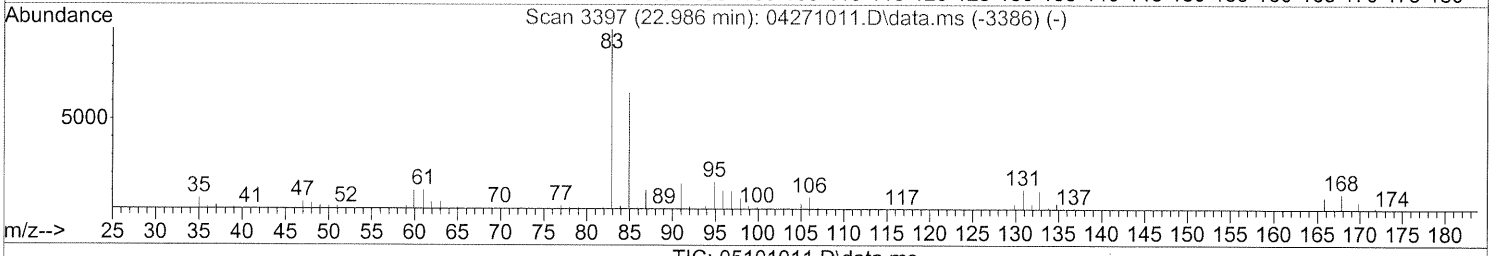
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101011.D\data.ms

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

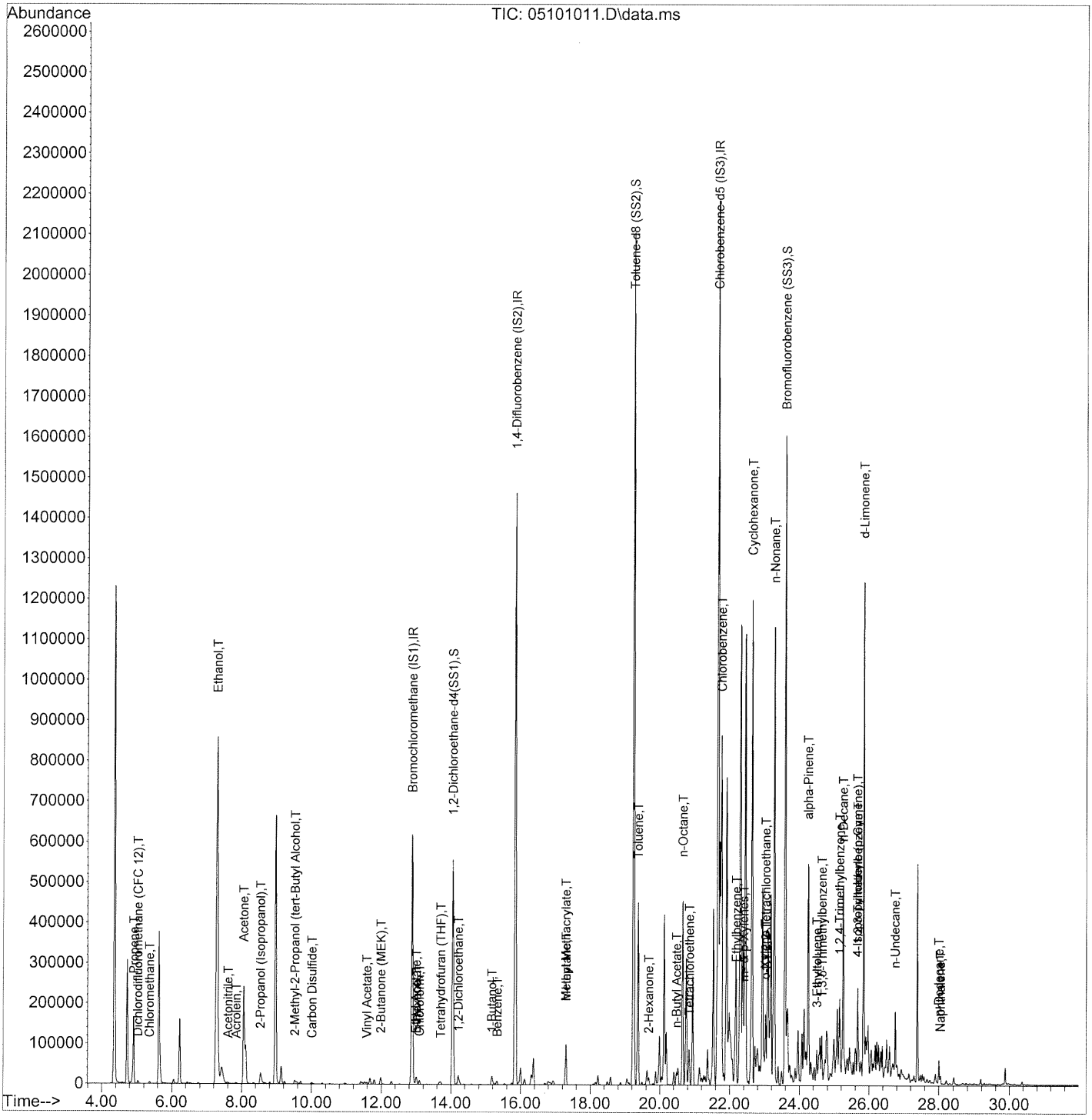
23.026min (+0.046) 0.12ng

response 4793

Ion	Exp%	Act%
82.90	100	100
84.90	63.60	36.51#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	369334	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1776298	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	766202	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	556228	24.953	ng		0.00
Spiked Amount 25.000			Recovery =	99.80%			
57) Toluene-d8 (SS2)	19.24	98	1874210	24.253	ng		0.00
Spiked Amount 25.000			Recovery =	97.00%			
73) Bromofluorobenzene (SS3)	23.59	174	644780	23.820	ng		0.00
Spiked Amount 25.000			Recovery =	95.28%			
Target Compounds							Qvalue
2) Propene	4.91	42	21389	1.022	ng	#	1
3) Dichlorodifluoromethan...	5.03	85	6826	0.139	ng		95
4) Chloromethane	5.36	50	4189	0.140	ng		88
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.			
6) Vinyl Chloride	5.84	62	101	N.D.			
7) 1,3-Butadiene	6.13	54	418	N.D.			
8) Bromomethane	6.63	94	86	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	7.29	45	1676883	131.575	ng		100
11) Acetonitrile	7.61	41	3427	0.111	ng		90
12) Acrolein	7.84	56	3184	0.253	ng		91
13) Acetone	8.05	58	140779	8.644	ng		99
14) Trichlorofluoromethane	8.35	101	3350	N.D.			
15) 2-Propanol (Isopropanol)	8.53	45	63416	1.336	ng		93
16) Acrylonitrile	8.85	53	509	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.52	59	18434	0.329	ng		90
19) Methylene Chloride	9.59	84	1248	N.D.			
20) 3-Chloro-1-propene (Al...	9.69	41	1905	N.D.			
21) Trichlorotrifluoroethane	10.06	151	611	N.D.			
22) Carbon Disulfide	10.01	76	8340	0.105	ng		84
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	11.58	86	1406	0.248	ng	#	1
27) 2-Butanone (MEK)	11.98	72	8458	0.565	ng	#	69
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.10	87	700	N.D.			
30) Ethyl Acetate	13.00	61	1721	0.217	ng		92
31) n-Hexane	13.01	57	6734	0.178	ng		97

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.09	83	10190	0.253 ng		99
34) Tetrahydrofuran (THF)	13.71	72	1941	0.134 ng	#	57
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.21	62	24735	0.819 ng		100
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.17	56	19898	0.929 ng	#	77
41) Benzene	15.33	78	12819	0.127 ng		94
42) Carbon Tetrachloride	15.55	117	901	N.D.		
43) Cyclohexane	15.75	84	2954	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	16.78	83	1976	N.D.		
47) Trichloroethene	16.86	130	2681	N.D.		
48) 1,4-Dioxane	16.83	88	245	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	8980	N.D.		
50) Methyl Methacrylate	17.30	100	10901	1.017 ng	#	1
51) n-Heptane	17.30	71	33533	1.394 ng		89
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	1116	N.D.		
54) trans-1,3-Dichloropropene	18.73	75	87	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	446144	4.093 ng		98
59) 2-Hexanone	19.68	43	11886	0.258 ng	#	59
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	14103	0.268 ng	#	74
63) n-Octane	20.66	57	99005	5.062 ng	#	79
64) Tetrachloroethene	20.85	166	16094	0.473 ng		100
65) Chlorobenzene	21.76	112	138172	1.908 ng	#	43
66) Ethylbenzene	22.19	91	19968	0.167 ng		98
67) m- & p-Xylenes	22.40	91	44133	0.468 ng		95
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.87	104	7168	N.D.		
70) o-Xylene	23.01	91	19500	0.203 ng		100
71) n-Nonane	23.27	43	417725	9.951 ng		86
72) 1,1,2,2-Tetrachloroethane	23.03	83	4793	0.118 ng	#	65
74) Cumene	23.75	105	5627	N.D.		
75) alpha-Pinene	24.24	93	256345	4.201 ng		94
76) n-Propylbenzene	24.38	91	8782	N.D.		
77) 3-Ethyltoluene	24.50	105	19792	0.164 ng		87
78) 4-Ethyltoluene	24.55	105	11647	N.D.		
79) 1,3,5-Trimethylbenzene	24.64	105	11194	0.113 ng		88

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101011.D
Acq On : 10 May 2010 19:24
Operator : WA
Sample : P1001603-006 Dil (100mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 10 20:19:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	1022	N.D.			
81) 2-Ethyltoluene	24.88	105	11854	N.D.			
82) 1,2,4-Trimethylbenzene	25.15	105	34835	0.340	ng		95
83) n-Decane	25.25	57	164893	3.534	ng		87
84) Benzyl Chloride	25.31	91	3667	N.D.			
85) 1,3-Dichlorobenzene	25.34	146	1840	N.D.			
86) 1,4-Dichlorobenzene	25.41	146	4284	N.D.			
87) sec-Butylbenzene	25.48	105	3943	N.D.			
88) 4-Isopropyltoluene (p-...	25.66	119	18473	0.140	ng		89
89) 1,2,3-Trimethylbenzene	25.66	105	14474	0.140	ng		93
90) 1,2-Dichlorobenzene	25.84	146	1252	N.D.			
91) d-Limonene	25.84	68	296377	8.336	ng		77
92) 1,2-Dibromo-3-Chloropr...	26.76	157	96	N.D.			
93) n-Undecane	26.75	57	55695	1.205	ng		79
94) 1,2,4-Trichlorobenzene	27.90	180	1918	N.D.			
95) Naphthalene	28.05	128	15511	0.119	ng		99
96) n-Dodecane	28.00	57	18896	0.394	ng		88
97) Hexachlorobutadiene	28.48	225	88	N.D.			
98) Cyclohexanone	22.63	55	134233	4.293	ng	#	26
99) tert-Butylbenzene	25.15	119	5834	N.D.			
100) n-Butylbenzene	26.16	91	8174	N.D.			

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110306**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01032

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**9.5**	0.75	**5.5**	0.44	
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.75	**0.40**	0.15	
74-87-3	**Chloromethane**	**0.63**	0.30	**0.30**	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.059	
106-99-0	1,3-Butadiene	ND	0.30	ND	0.14	
74-83-9	Bromomethane	ND	0.15	ND	0.039	
75-00-3	**Chloroethane**	**0.25**	0.15	**0.096**	0.057	
64-17-5	**Ethanol**	**2,000**	75	**1,100**	40	**D**
75-05-8	**Acetonitrile**	**1.1**	0.75	**0.66**	0.45	
107-02-8	**Acrolein**	**5.0**	3.0	**2.2**	1.3	
67-64-1	**Acetone**	**140**	7.5	**58**	3.2	
75-69-4	**Trichlorofluoromethane**	**1.3**	0.15	**0.23**	0.027	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**35**	1.5	**14**	0.61	
107-13-1	Acrylonitrile	ND	0.75	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	ND	0.75	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
76-13-1	**Trichlorotrifluoroethane**	**0.48**	0.15	**0.063**	0.020	
75-15-0	Carbon Disulfide	ND	7.5	ND	2.4	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.038	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.042	
108-05-4	Vinyl Acetate	ND	7.5	ND	2.1	
78-93-3	**2-Butanone (MEK)**	**12**	7.5	**4.1**	2.5	

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: RC Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110306**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01032

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	**Ethyl Acetate**	**21**	0.75	**5.8**	0.21	
110-54-3	**n-Hexane**	**5.8**	0.75	**1.6**	0.21	
67-66-3	**Chloroform**	**3.5**	0.15	**0.72**	0.031	
109-99-9	**Tetrahydrofuran (THF)**	**2.0**	0.75	**0.67**	0.25	
107-06-2	**1,2-Dichloroethane**	**11**	0.15	**2.8**	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	**Benzene**	**1.7**	0.15	**0.52**	0.047	
56-23-5	**Carbon Tetrachloride**	**0.46**	0.15	**0.073**	0.024	
110-82-7	**Cyclohexane**	**1.8**	0.75	**0.52**	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	**Trichloroethene**	**1.3**	0.15	**0.24**	0.028	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.75	ND	0.18	
142-82-5	**n-Heptane**	**35**	0.75	**8.6**	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	ND	0.17	
108-10-1	**4-Methyl-2-pentanone**	**1.2**	0.75	**0.28**	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	**Toluene**	**56**	0.75	**15**	0.20	
591-78-6	2-Hexanone	ND	0.75	ND	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	**n-Butyl Acetate**	**3.4**	0.75	**0.71**	0.16	

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: RC Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110306**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01032

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	**n-Octane**	**65**	0.75	**14**	0.16	
127-18-4	**Tetrachloroethene**	**5.9**	0.15	**0.87**	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	**Ethylbenzene**	**6.6**	0.75	**1.5**	0.17	
179601-23-1	**m,p-Xylenes**	**8.9**	0.75	**2.0**	0.17	
75-25-2	Bromoform	ND	0.75	ND	0.073	
100-42-5	**Styrene**	**1.2**	0.75	**0.29**	0.18	
95-47-6	**o-Xylene**	**3.3**	0.75	**0.76**	0.17	
111-84-2	**n-Nonane**	**130**	0.75	**24**	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.75	ND	0.15	
80-56-8	**alpha-Pinene**	**52**	0.75	**9.4**	0.13	
103-65-1	n-Propylbenzene	ND	0.75	ND	0.15	
622-96-8	**4-Ethyltoluene**	**1.0**	0.75	**0.21**	0.15	
108-67-8	**1,3,5-Trimethylbenzene**	**1.3**	0.75	**0.26**	0.15	
95-63-6	**1,2,4-Trimethylbenzene**	**4.1**	0.75	**0.82**	0.15	
100-44-7	Benzyl Chloride	ND	0.75	ND	0.14	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	**1,4-Dichlorobenzene**	**0.47**	0.15	**0.079**	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	**d-Limonene**	**110**	0.75	**20**	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	ND	0.078	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	ND	0.10	
91-20-3	Naphthalene	ND	0.75	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

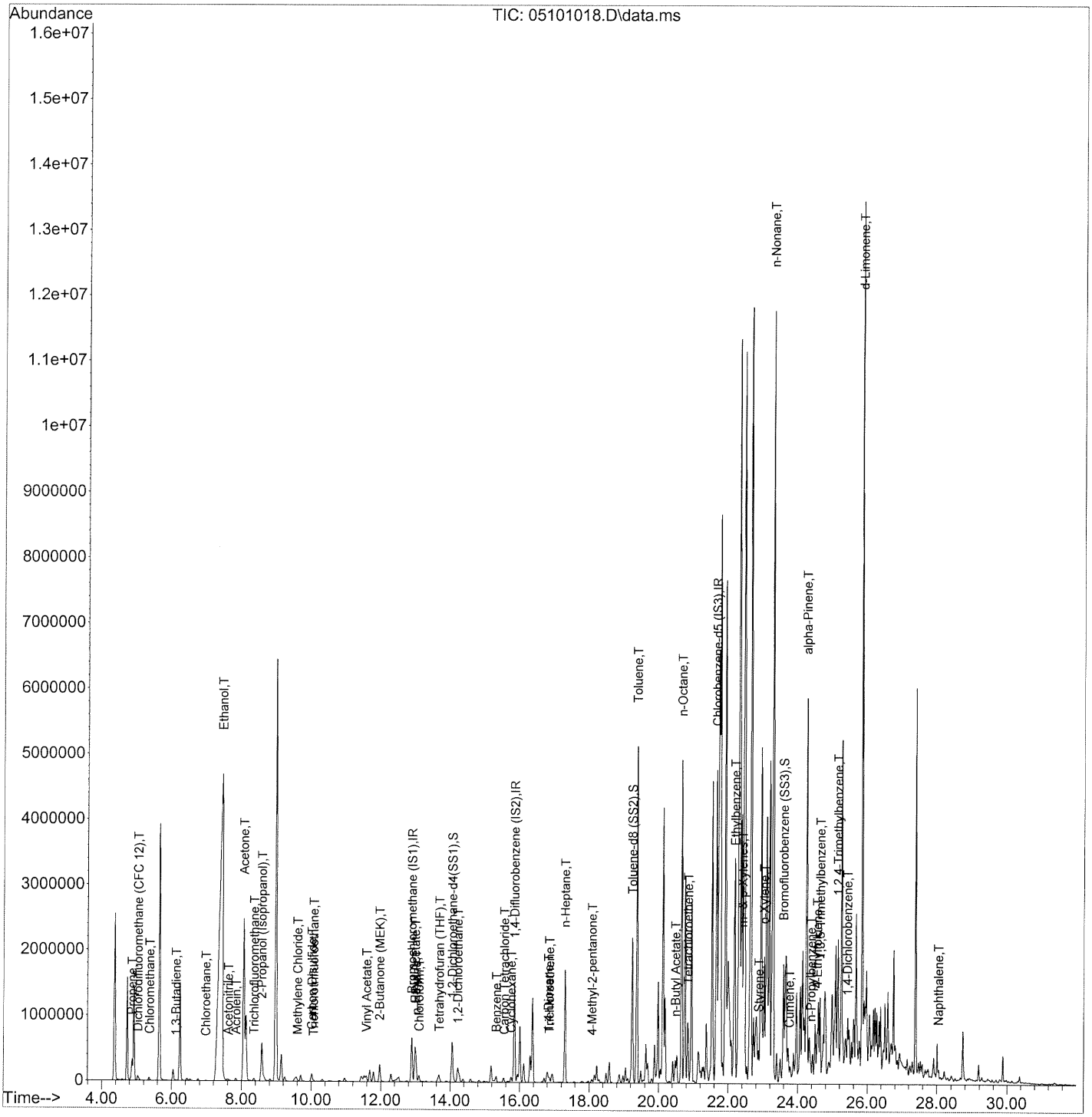
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 14 08:04:11 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 14 08:04:11 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	399481	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.85	114	1875266	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	970346	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	593022	24.596	ng		0.00
Spiked Amount 25.000			Recovery =	98.40%			✓
57) Toluene-d8 (SS2)	19.24	98	1994338	20.378	ng		0.00
Spiked Amount 25.000			Recovery =	81.52%			✓
73) Bromofluorobenzene (SS3)	23.59	174	717652	20.934	ng		0.00
Spiked Amount 25.000			Recovery =	83.72%			✓
Target Compounds							Qvalue
2) Propene	4.87	42	143996m	6.363	ng		
3) Dichlorodifluoromethan...	5.04	85	70441	1.324	ng		99
4) Chloromethane	5.37	50	13467	0.417	ng		98
7) 1,3-Butadiene	6.13	54	4274	0.162	ng		97
9) Chloroethane	6.97	64	3095	0.168	ng		87
10) Ethanol	7.44	45	18352434m	1331.339	ng		sec dil
11) Acetonitrile	7.62	41	24606	0.737	ng		97
12) Acrolein	7.84	56	45652	3.358	ng		99
13) Acetone	8.06	58	1620581	92.000	ng		93
14) Trichlorofluoromethane	8.36	101	42555	0.879	ng		99
15) 2-Propanol (Isopropanol)	8.58	45	1182771	23.046	ng		100
19) Methylene Chloride	9.60	84	8454	0.319	ng	#	75
21) Trichlorotrifluoroethane	10.06	151	7819	0.322	ng	#	76
22) Carbon Disulfide	10.01	76	252415	2.949	ng		99
26) Vinyl Acetate	11.59	86	27213	4.439	ng	#	1
27) 2-Butanone (MEK)	11.97	72	131462	8.125	ng	#	66
30) Ethyl Acetate	12.99	61	120560	14.030	ng		92
31) n-Hexane	13.02	57	158165	3.862	ng	#	96
32) Chloroform	13.10	83	102072	2.345	ng		99
34) Tetrahydrofuran (THF)	13.69	72	20759	1.321	ng	#	57
36) 1,2-Dichloroethane	14.22	62	245481	7.515	ng		100
41) Benzene	15.33	78	118815	1.113	ng		99
42) Carbon Tetrachloride	15.55	117	10064	0.307	ng		99
43) Cyclohexane	15.75	84	47262	1.189	ng	#	79
47) Trichloroethene	16.86	130	26001	0.873	ng		98
48) 1,4-Dioxane	16.83	88	3979	0.191	ng		97
51) n-Heptane	17.31	71	596942	23.504	ng		88
53) 4-Methyl-2-pentanone	18.08	58	15610	0.772	ng	#	84
58) Toluene	19.38	91	5109240	37.016	ng		98
62) n-Butyl Acetate	20.48	43	149196	2.237	ng		77

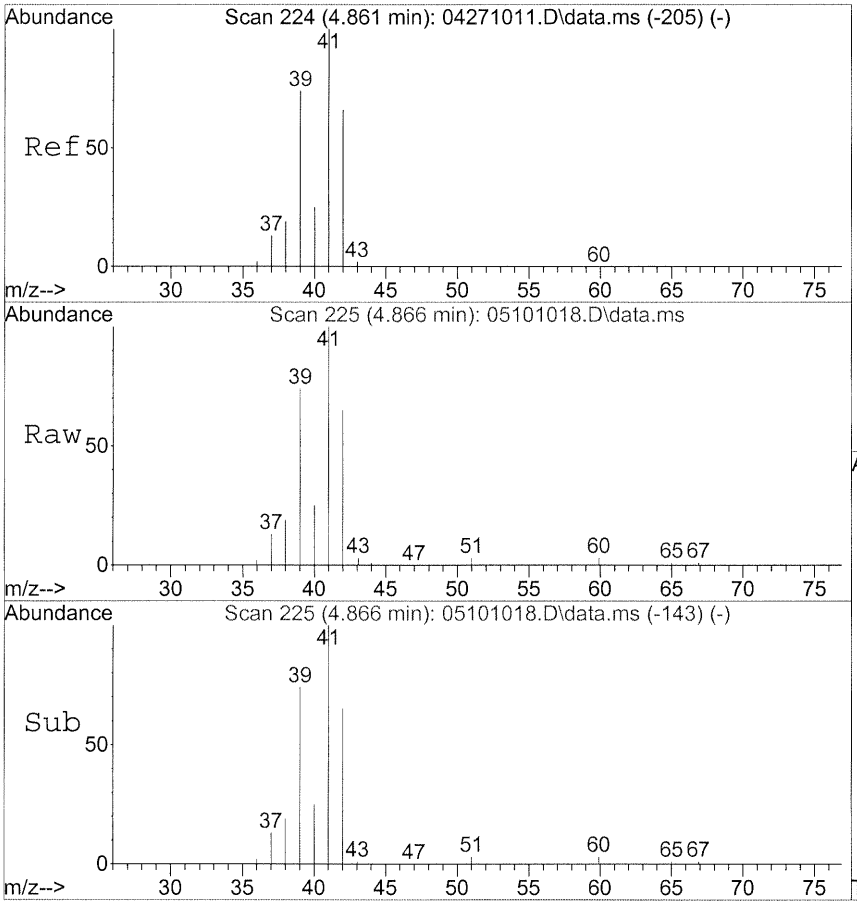
Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 14 08:04:11 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
63) n-Octane	20.66	57	1071318	43.254	ng	#	80
64) Tetrachloroethene	20.85	166	170017	3.942	ng		100
66) Ethylbenzene	22.19	91	665961	4.402	ng		96
67) m- & p-Xylenes	22.40	91	707717	5.921	ng		93
69) Styrene	22.88	104	76733	0.816	ng		96
70) o-Xylene	23.03	91	267381	2.194	ng		96
71) n-Nonane	23.28	43	4481152	84.292	ng		86
74) Cumene	23.76	105	28154	0.169	ng		98
75) alpha-Pinene	24.25	93	2703334	34.985	ng		94
76) n-Propylbenzene	24.38	91	76586	0.396	ng	#	88
78) 4-Ethyltoluene	24.56	105	104780	0.682	ng		98
79) 1,3,5-Trimethylbenzene	24.64	105	105917	0.845	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	350189	2.701	ng		97
86) 1,4-Dichlorobenzene	25.42	146	25875	0.316	ng		99
91) d-Limonene	25.84	68	3324008	73.820	ng		78
95) Naphthalene	28.05	128	76171	0.463	ng		94

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

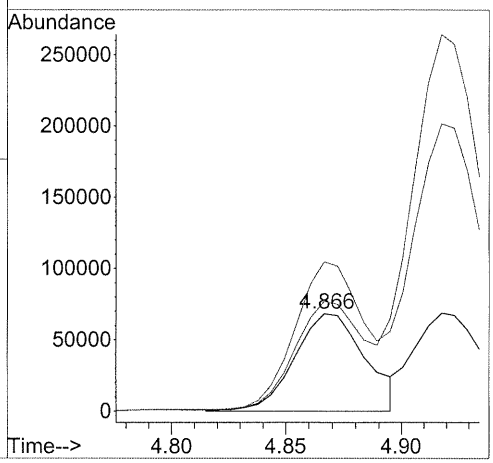
5/17/10

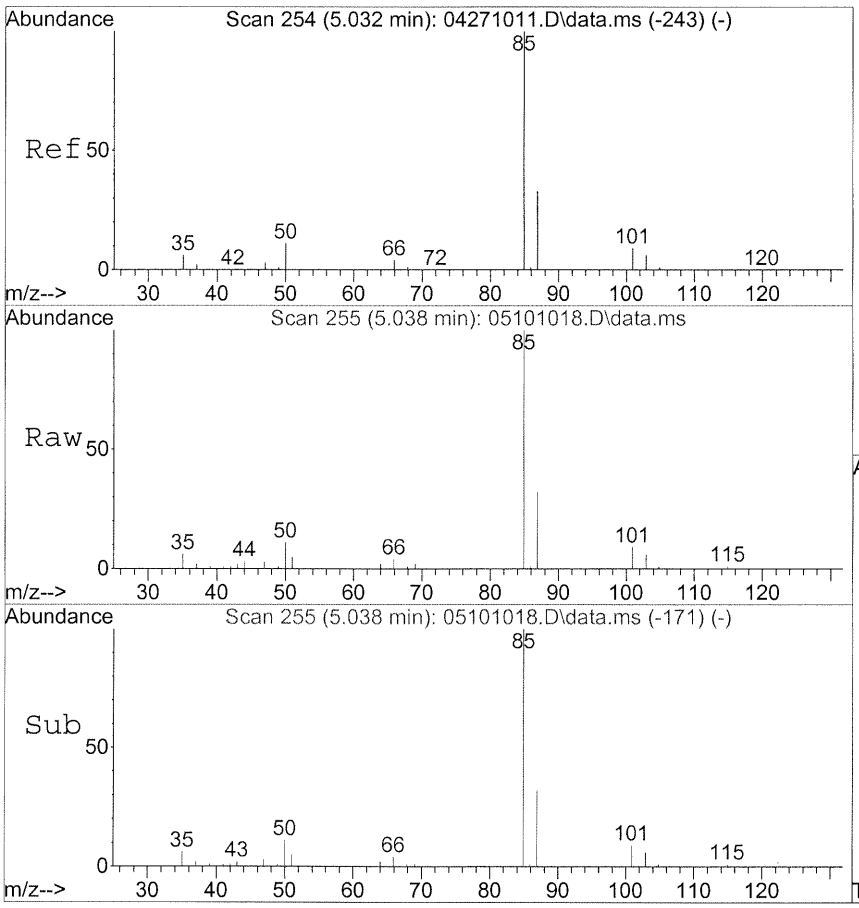


#2
Propene
Concen: 6.36 ng m
RT: 4.87 min Scan# 225
Delta R.T. -0.034 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 42 Resp: 143996

Ion	Ratio	Lower	Upper
42	100		
39	404.9	92.2	132.2#
41	311.9	133.9	173.9#

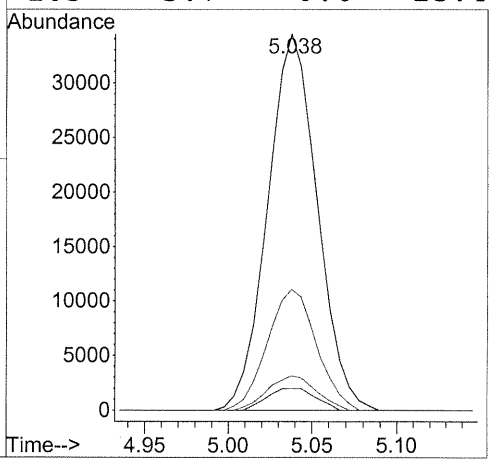


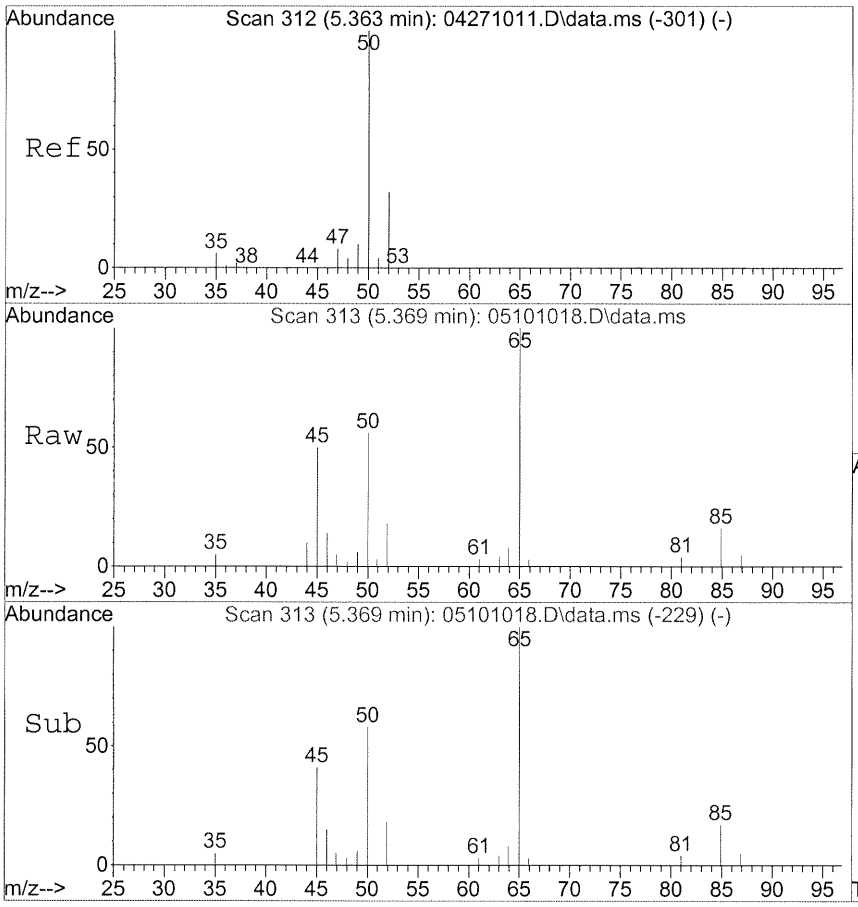


#3
Dichlorodifluoromethane (CFC
Concen: 1.32 ng
RT: 5.04 min Scan# 255
Delta R.T. -0.023 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 85 Resp: 70441

Ion	Ratio	Lower	Upper
85	100		
87	31.8	12.0	52.0
101	8.9	0.0	28.5
103	5.7	0.0	25.4

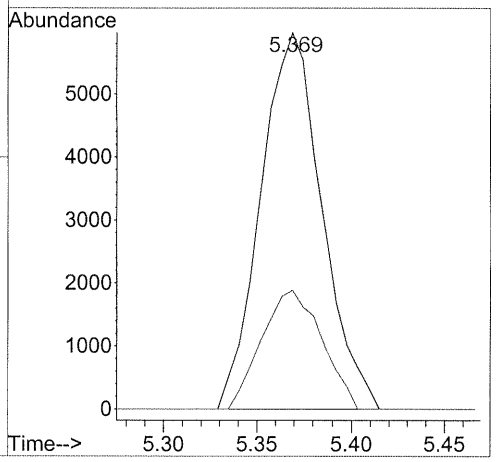


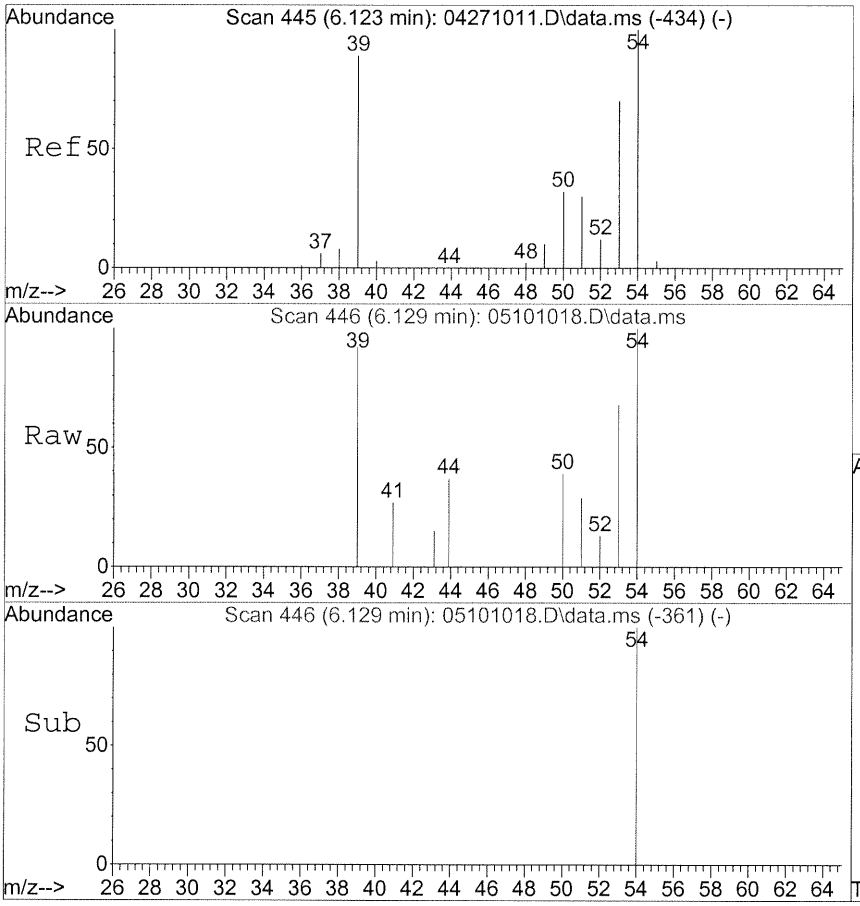


#4
Chloromethane
Concen: 0.42 ng
RT: 5.37 min Scan# 313
Delta R.T. -0.023 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 50 Resp: 13467

Ion	Ratio	Lower	Upper
50	100		
52	30.9	12.1	52.1

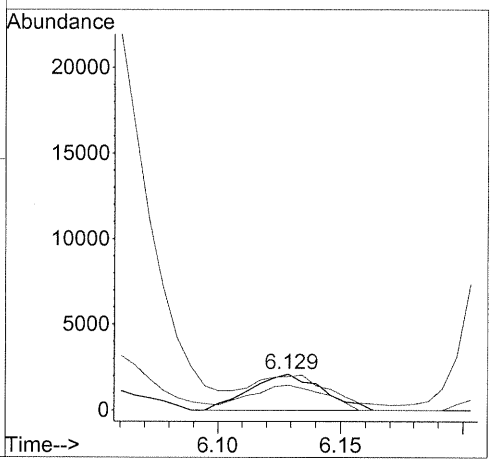


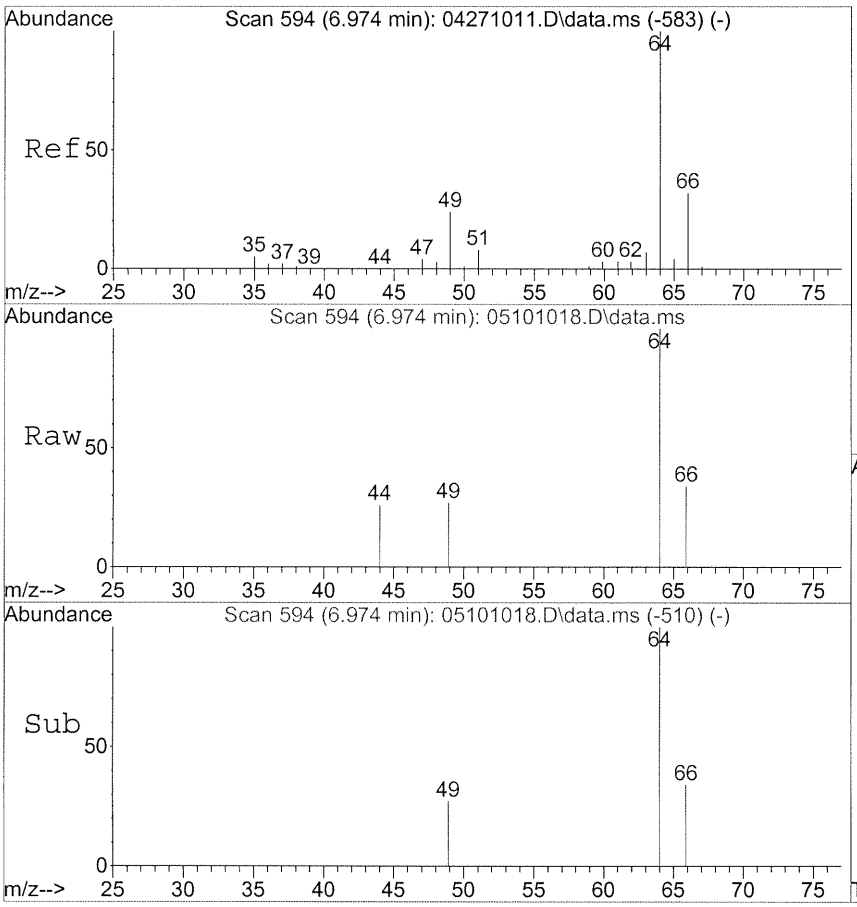


#7
1,3-Butadiene
Concen: 0.16 ng
RT: 6.13 min Scan# 446
Delta R.T. -0.017 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 54 Resp: 4274

Ion	Ratio	Lower	Upper
54	100		
39	109.1	85.1	125.1
53	70.3	50.7	90.7

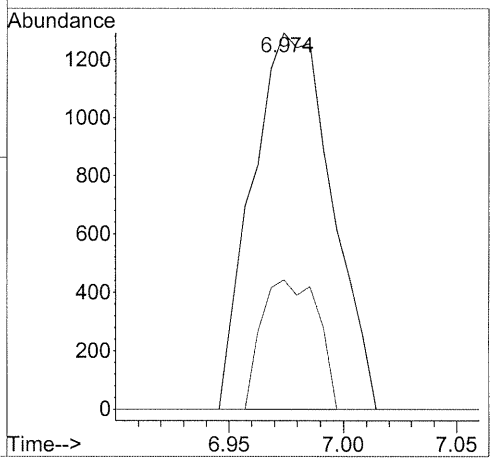


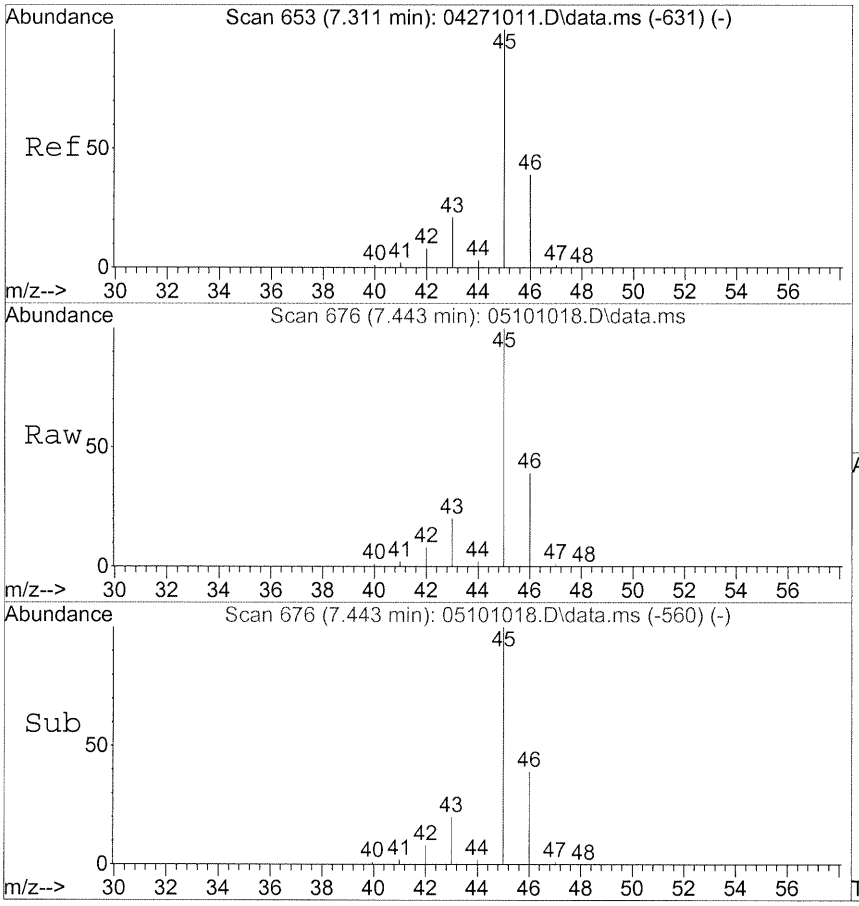


#9
Chloroethane
Concen: 0.17 ng
RT: 6.97 min Scan# 594
Delta R.T. -0.023 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 64 Resp: 3095

Ion	Ratio	Lower	Upper
64	100		
66	24.5	11.7	51.7

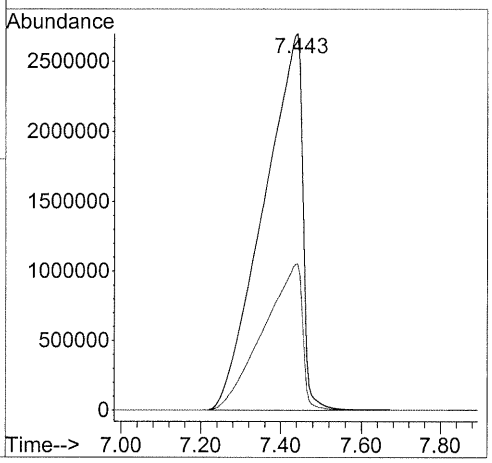


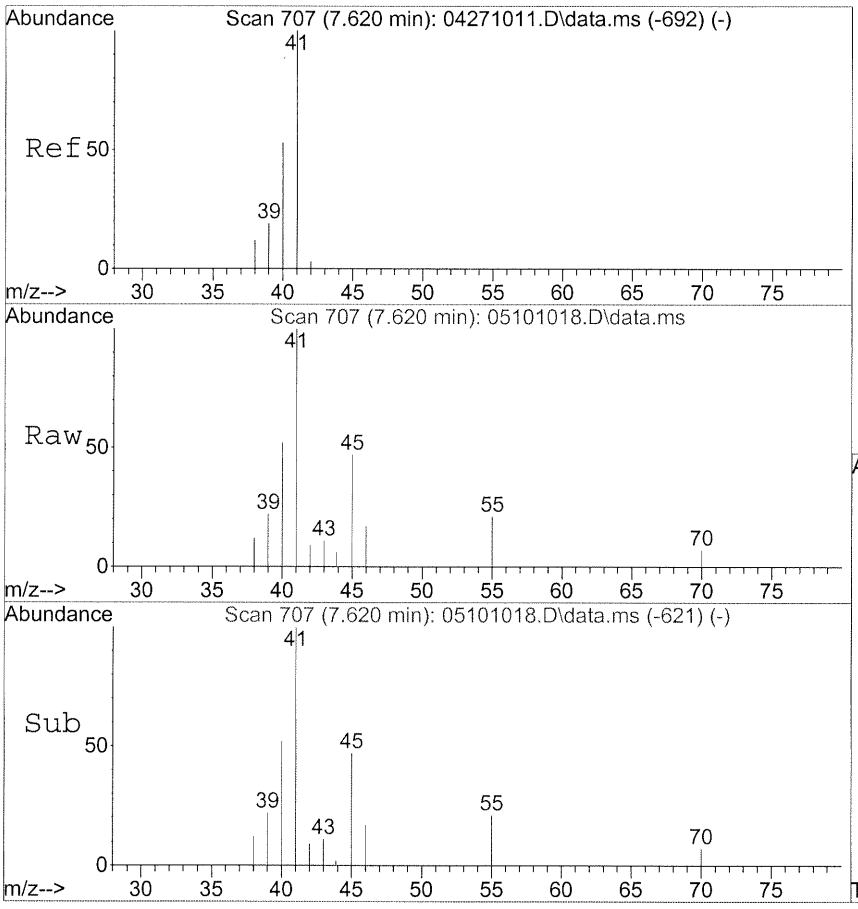


#10
Ethanol
Concen: 1331.34 ng m
RT: 7.44 min Scan# 676
Delta R.T. 0.160 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 45 Resp:18352434

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.4	58.4#

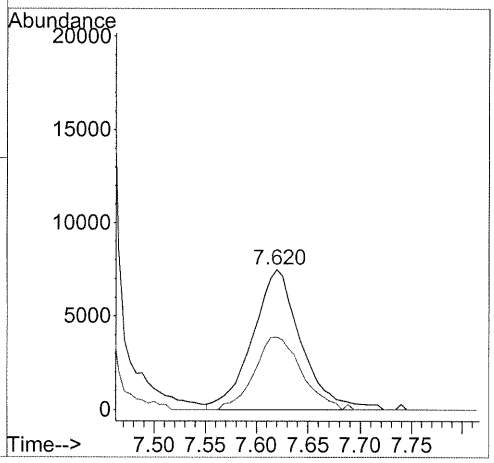


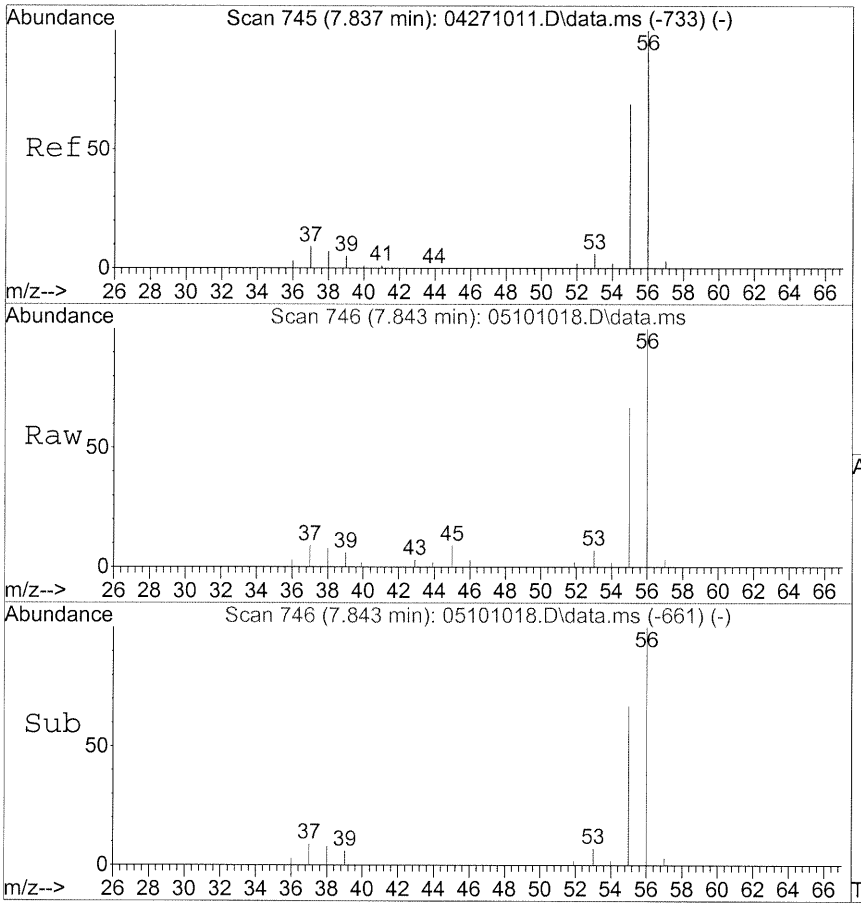


#11
Acetonitrile
Concen: 0.74 ng
RT: 7.62 min Scan# 707
Delta R.T. -0.011 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 41 Resp: 24606

Ion	Ratio	Lower	Upper
41	100		
40	50.3	32.7	72.7

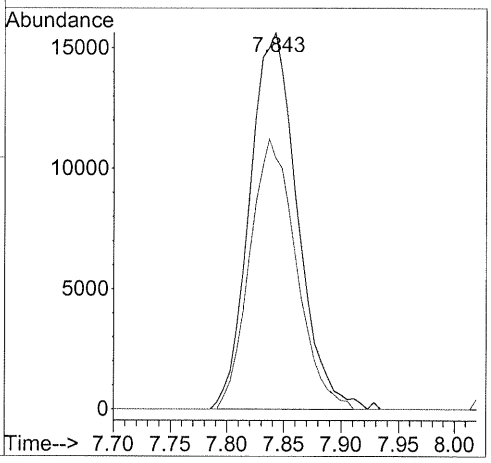


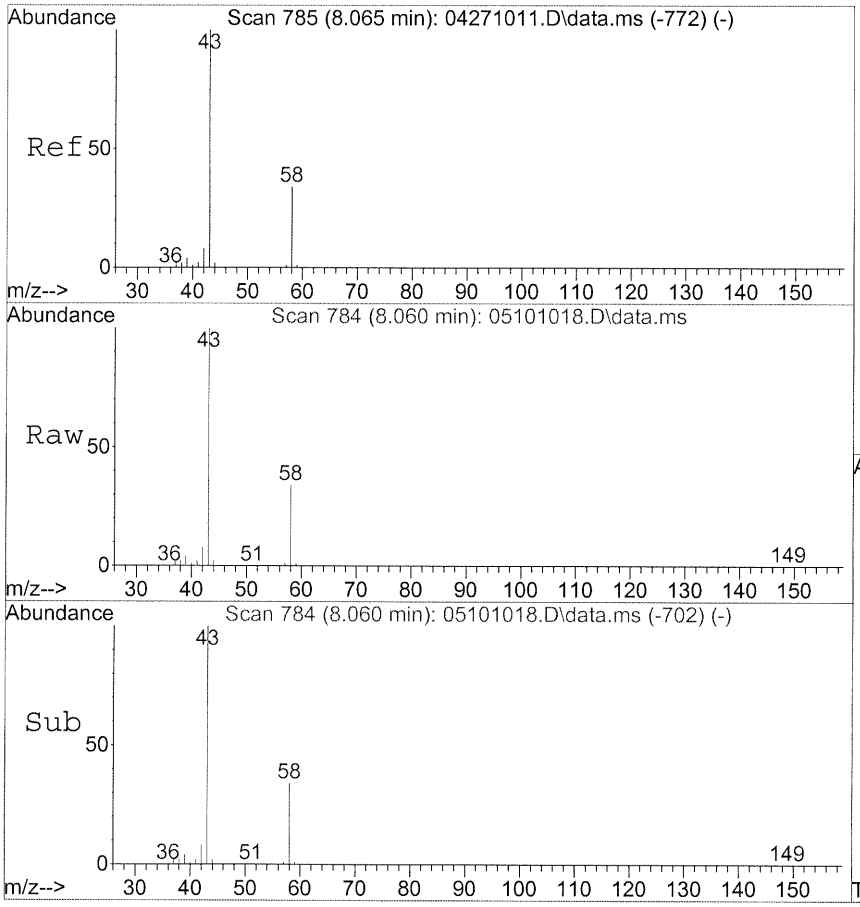


#12
Acrolein
Concen: 3.36 ng
RT: 7.84 min Scan# 746
Delta R.T. -0.016 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 56 Resp: 45652

Ion	Ratio	Lower	Upper
56	100		
55	69.8	50.5	90.5

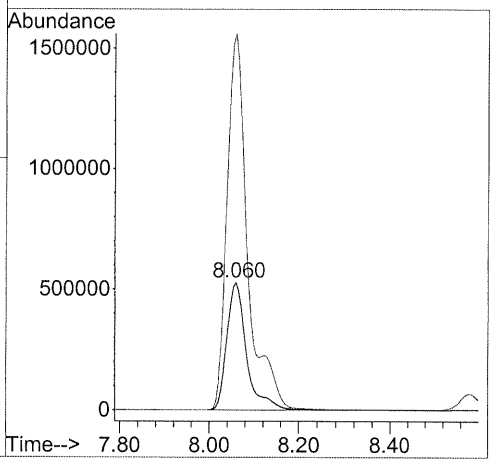


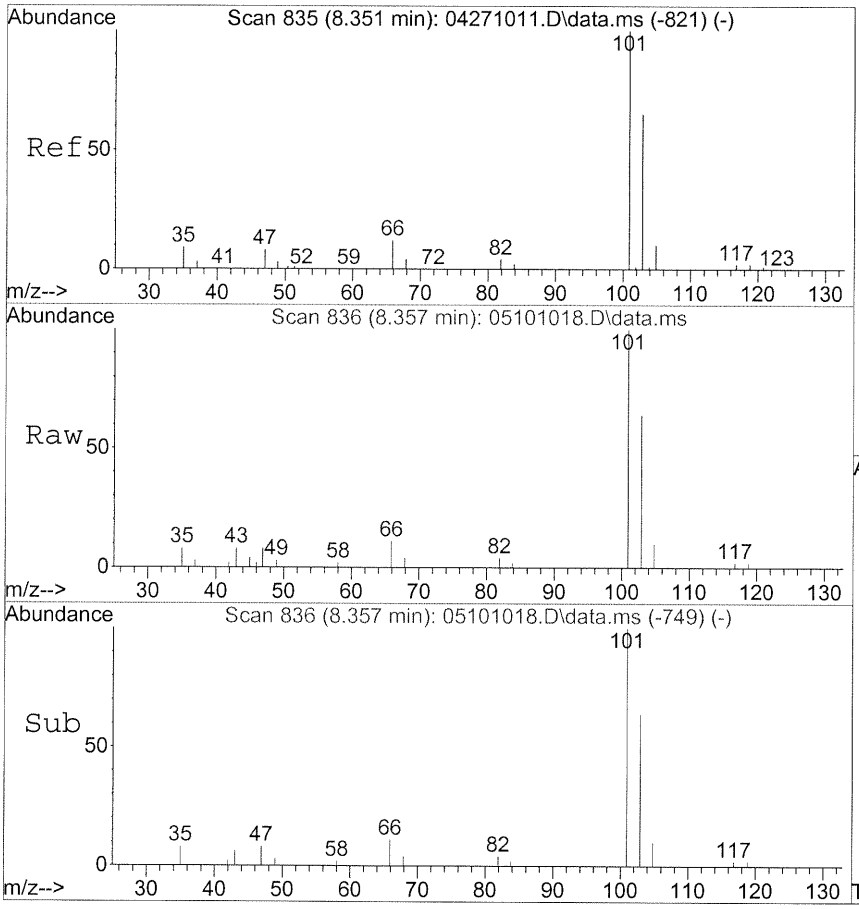


#13
Acetone
Concen: 92.00 ng
RT: 8.06 min Scan# 784
Delta R.T. -0.034 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 58 Resp: 1620581

Ion	Ratio	Lower	Upper
58	100		
43	311.0	295.0	355.0

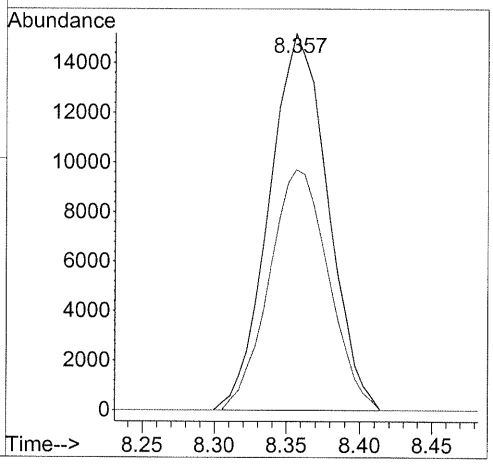


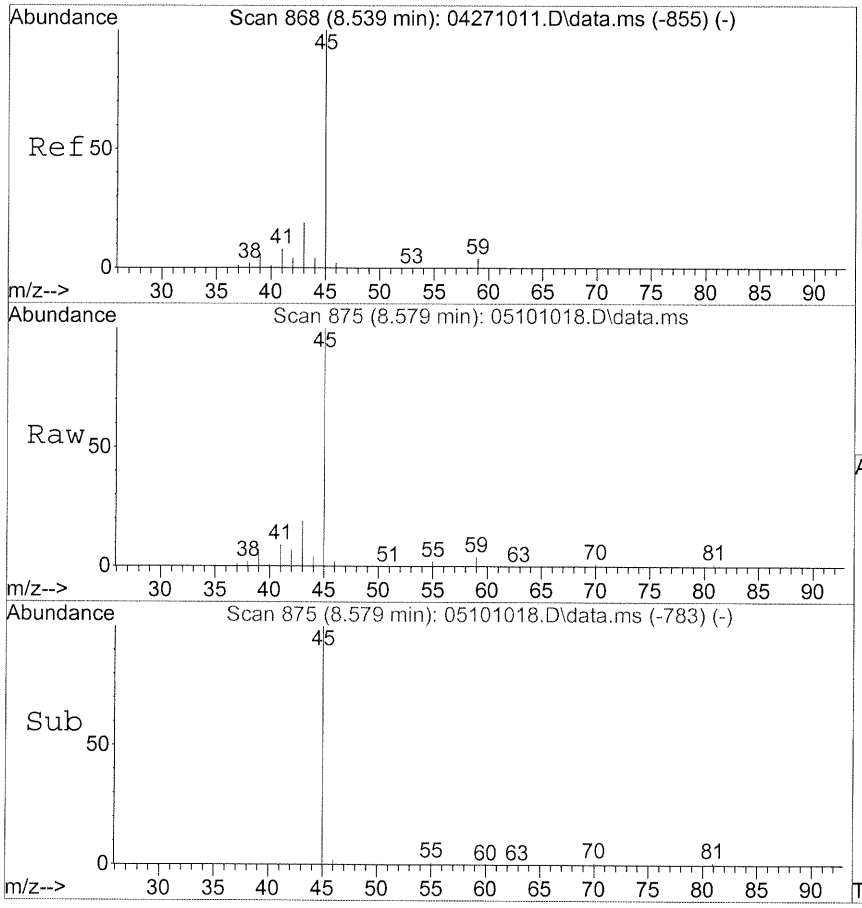


#14
Trichlorofluoromethane
Concen: 0.88 ng
RT: 8.36 min Scan# 836
Delta R.T. -0.005 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:101 Resp: 42555

Ion	Ratio	Lower	Upper
101	100		
103	64.5	43.8	83.8

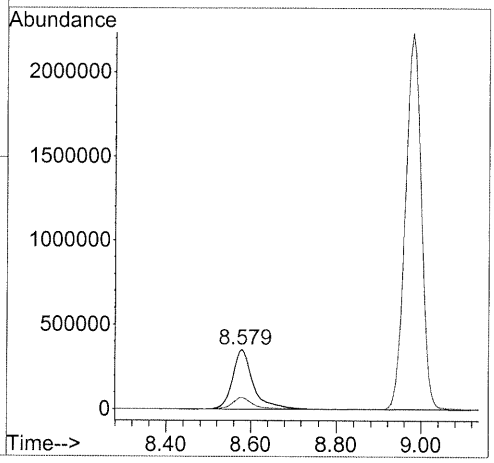


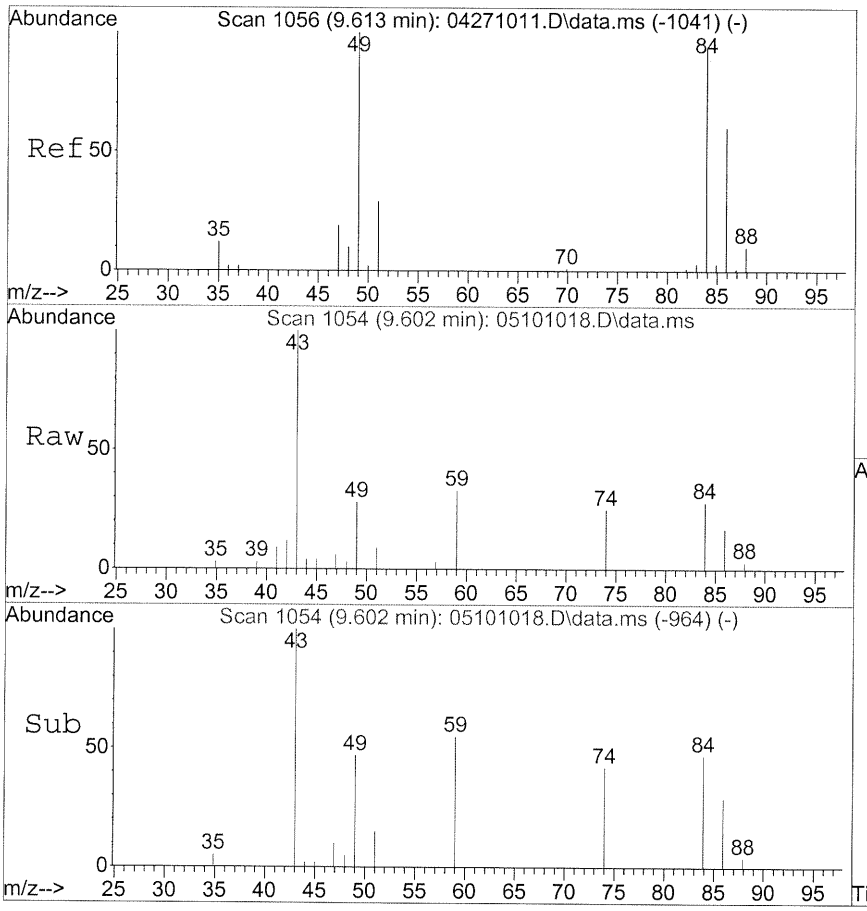


#15
2-Propanol (Isopropanol)
Concen: 23.05 ng
RT: 8.58 min Scan# 875
Delta R.T. 0.023 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 45 Resp: 1182771

Ion	Ratio	Lower	Upper
45	100		
43	19.1	0.0	39.2

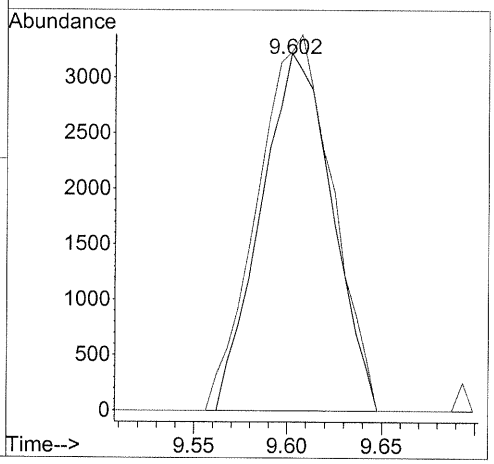


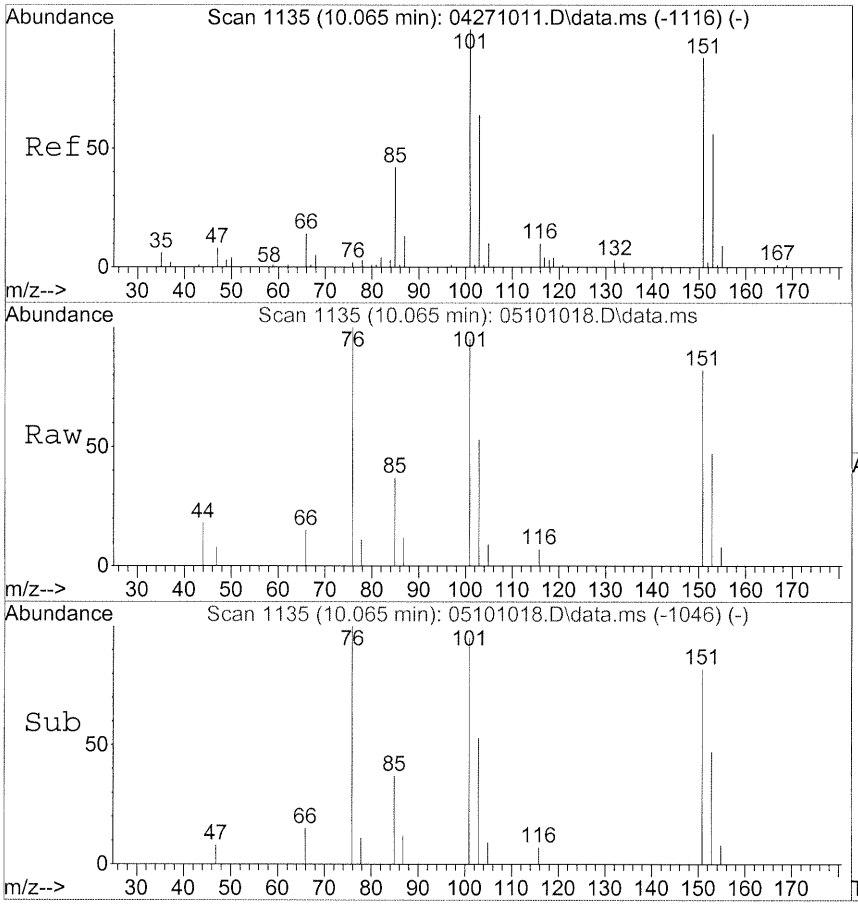


#19
Methylene Chloride
Concen: 0.32 ng
RT: 9.60 min Scan# 1054
Delta R.T. 0.012 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 84 Resp: 8454

Ion	Ratio	Lower	Upper
84	100		
49	111.2	116.6	166.6#

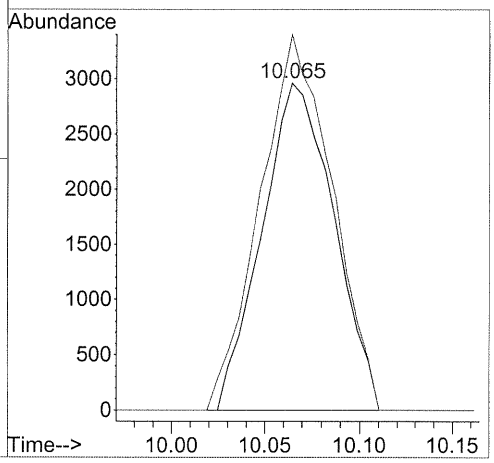


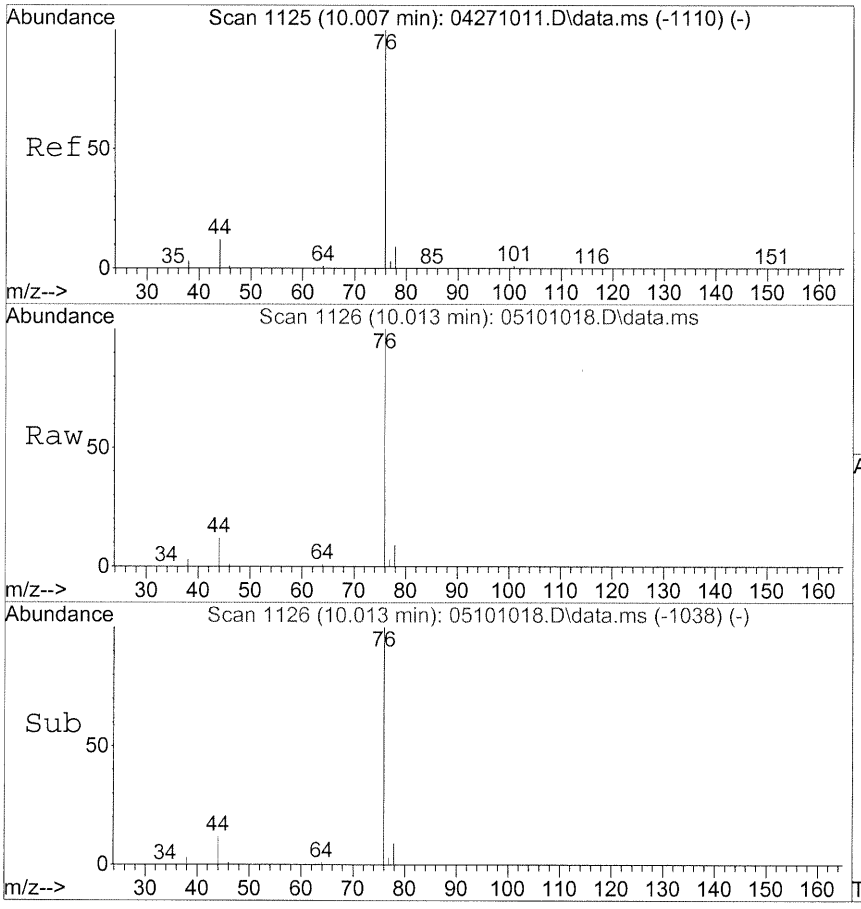


#21
Trichlorotrifluoroethane
Concen: 0.32 ng
RT: 10.06 min Scan# 1135
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:151 Resp: 7819

Ion	Ratio	Lower	Upper
151	100		
101	115.3	125.6	165.6#

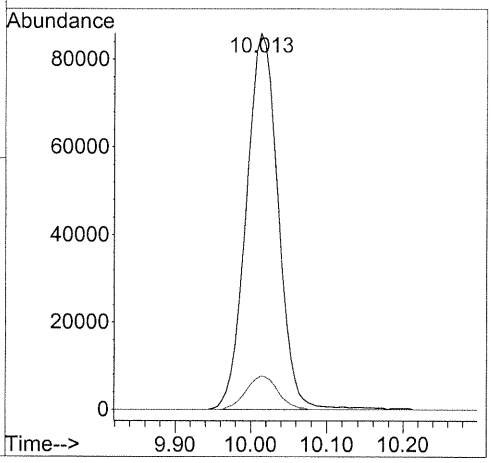


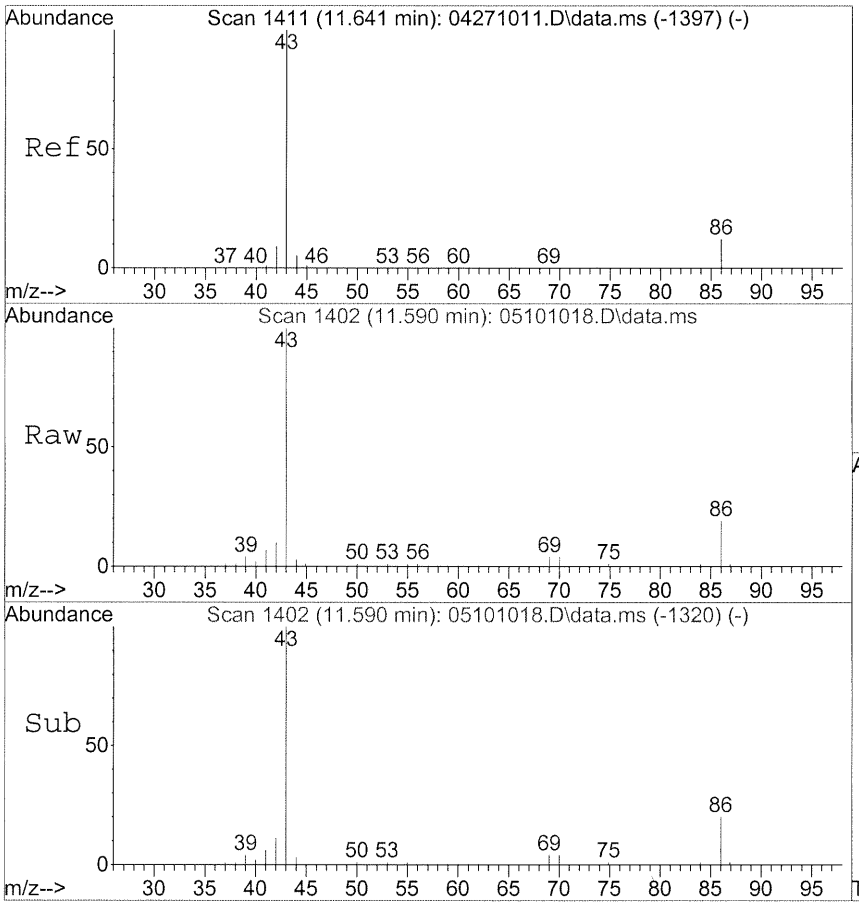


#22
Carbon Disulfide
Concen: 2.95 ng
RT: 10.01 min Scan# 1126
Delta R.T. 0.000 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 76 Resp: 252415

Ion	Ratio	Lower	Upper
76	100		
78	8.9	0.0	29.1

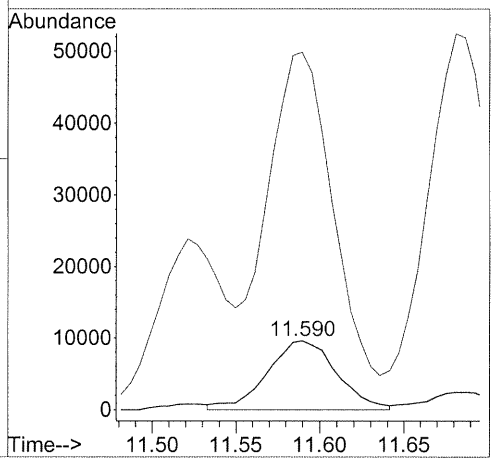


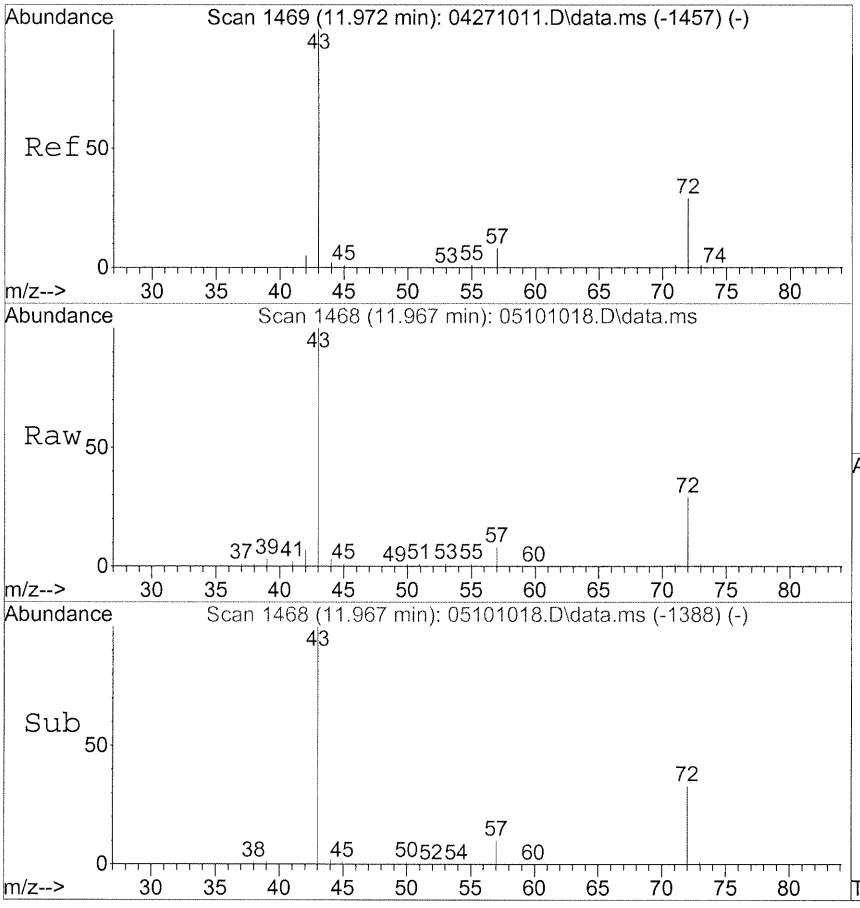


#26
Vinyl Acetate
Concen: 4.44 ng
RT: 11.59 min Scan# 1402
Delta R.T. -0.034 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 86 Resp: 27213

Ion	Ratio	Lower	Upper
86	100		
43	512.6	1285.5	1325.5#

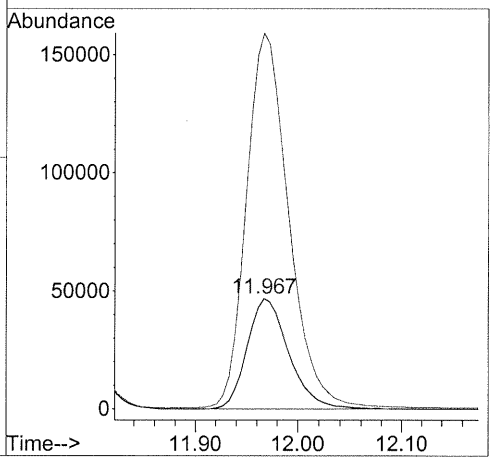


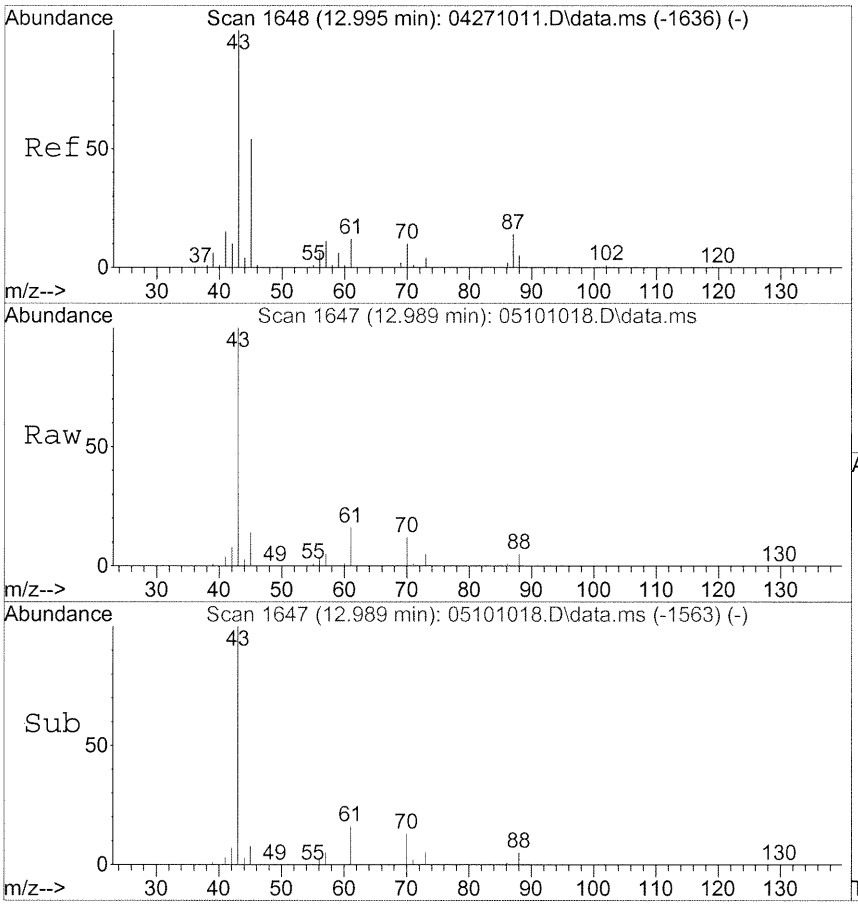


#27
2-Butanone (MEK)
Concen: 8.13 ng
RT: 11.97 min Scan# 1468
Delta R.T. -0.045 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 72 Resp: 131462

Ion	Ratio	Lower	Upper
72	100		
43	346.5	412.3	452.3#

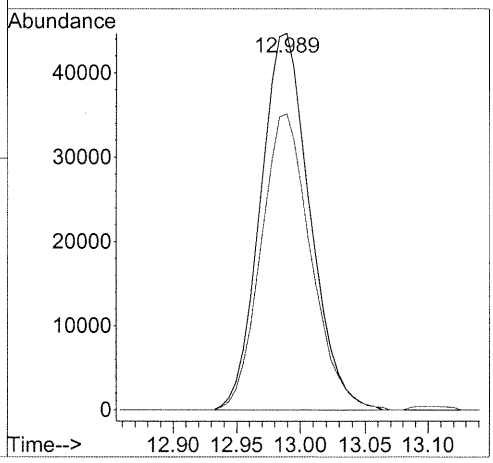


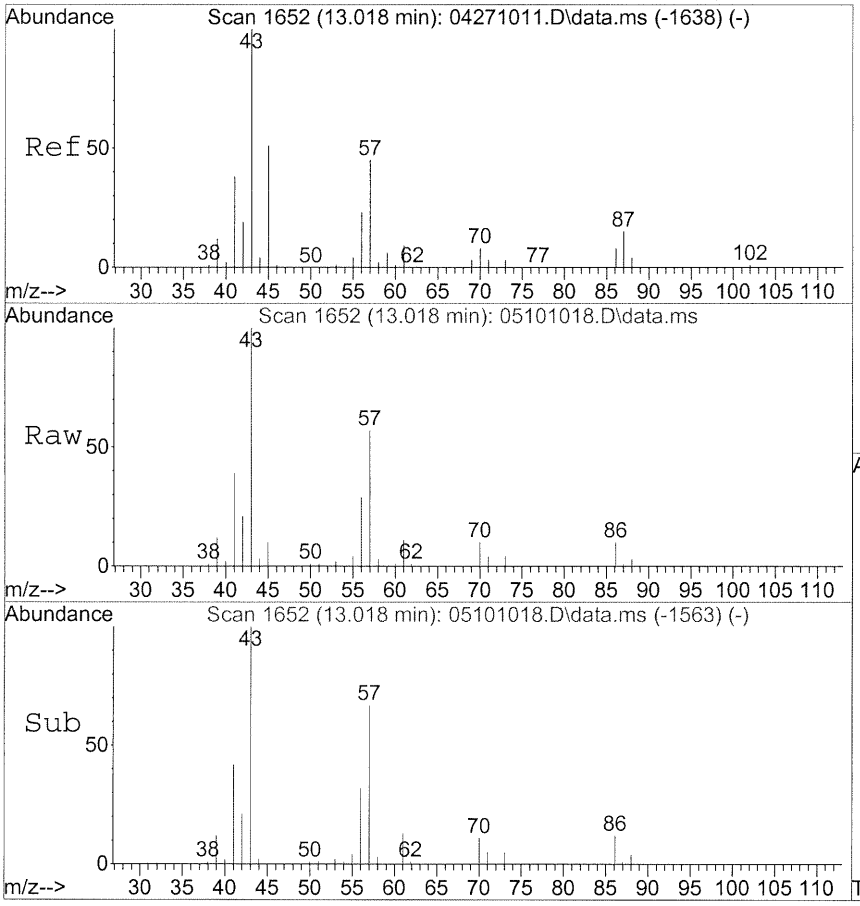


#30
Ethyl Acetate
Concen: 14.03 ng
RT: 12.99 min Scan# 1647
Delta R.T. -0.023 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 61 Resp: 120560

Ion	Ratio	Lower	Upper
61	100		
70	79.2	52.2	92.2

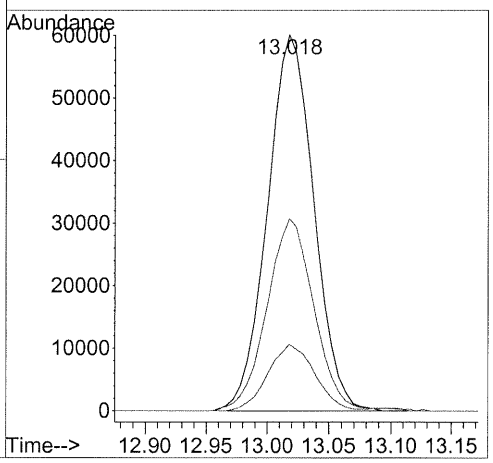


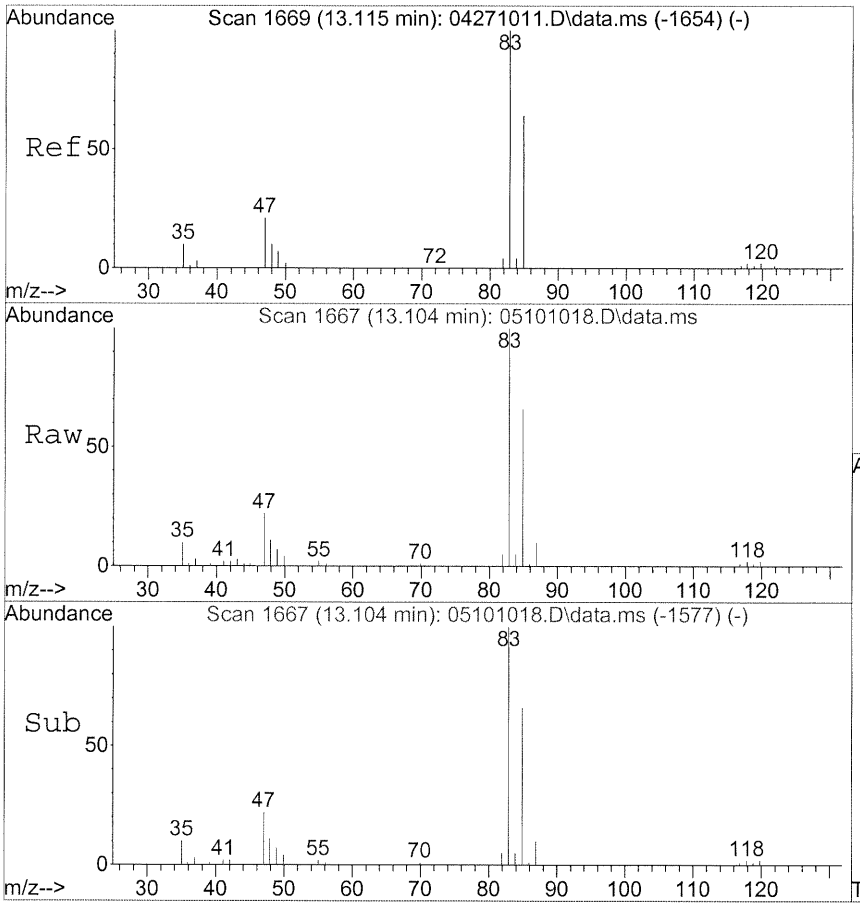


#31
n-Hexane
Concen: 3.86 ng
RT: 13.02 min Scan# 1652
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 57 Resp: 158165

Ion	Ratio	Lower	Upper
57	100		
56	51.9	40.0	60.0
86	17.9	11.5	17.3#

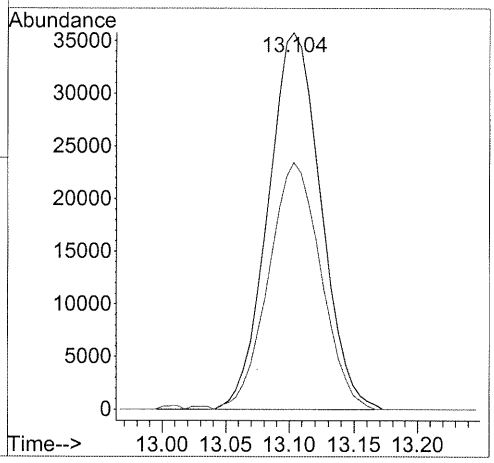


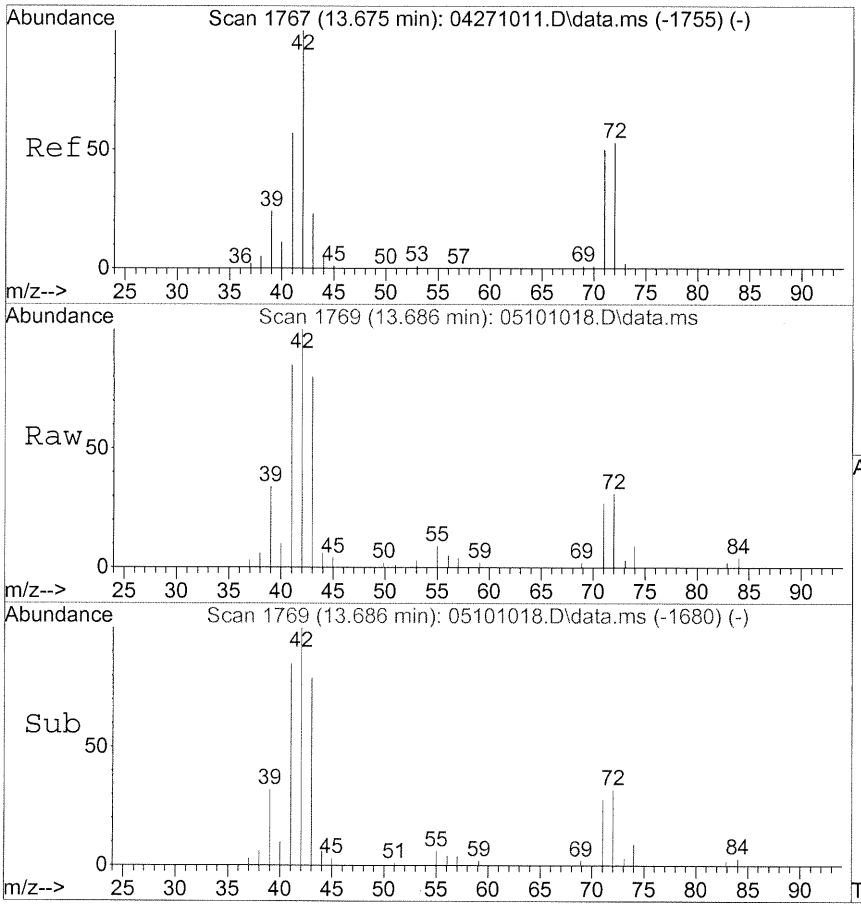


#32
Chloroform
Concen: 2.34 ng
RT: 13.10 min Scan# 1667
Delta R.T. 0.012 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 83 Resp: 102072

Ion	Ratio	Lower	Upper
83	100		
85	65.0	44.0	84.0

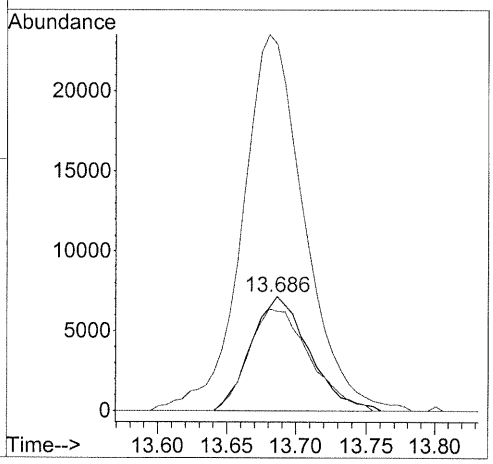


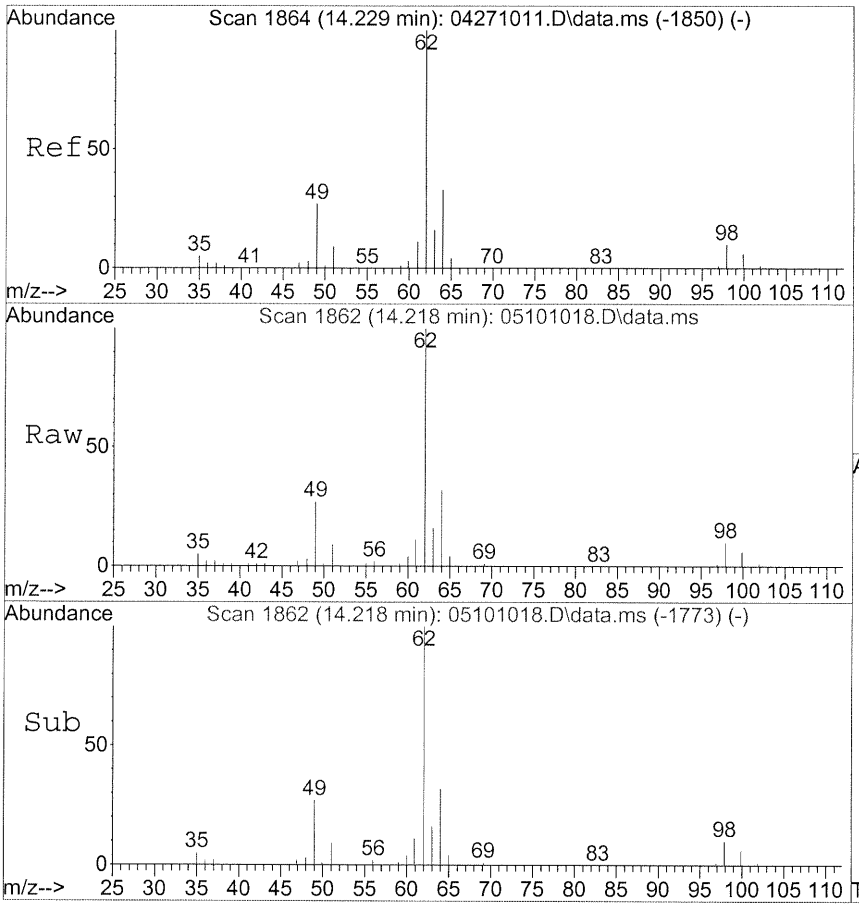


#34
Tetrahydrofuran (THF)
Concen: 1.32 ng
RT: 13.69 min Scan# 1769
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 72 Resp: 20759

Ion	Ratio	Lower	Upper
72	100		
71	93.9	76.0	116.0
42	353.9	231.9	271.9#

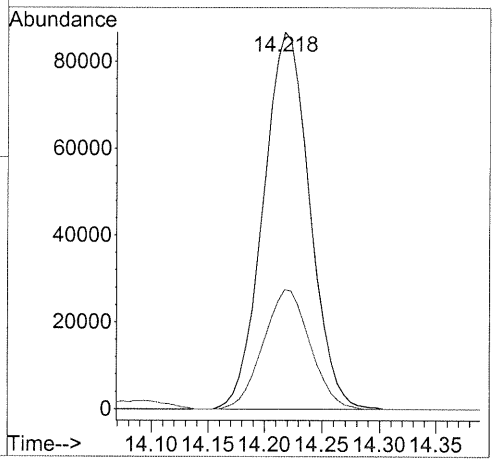


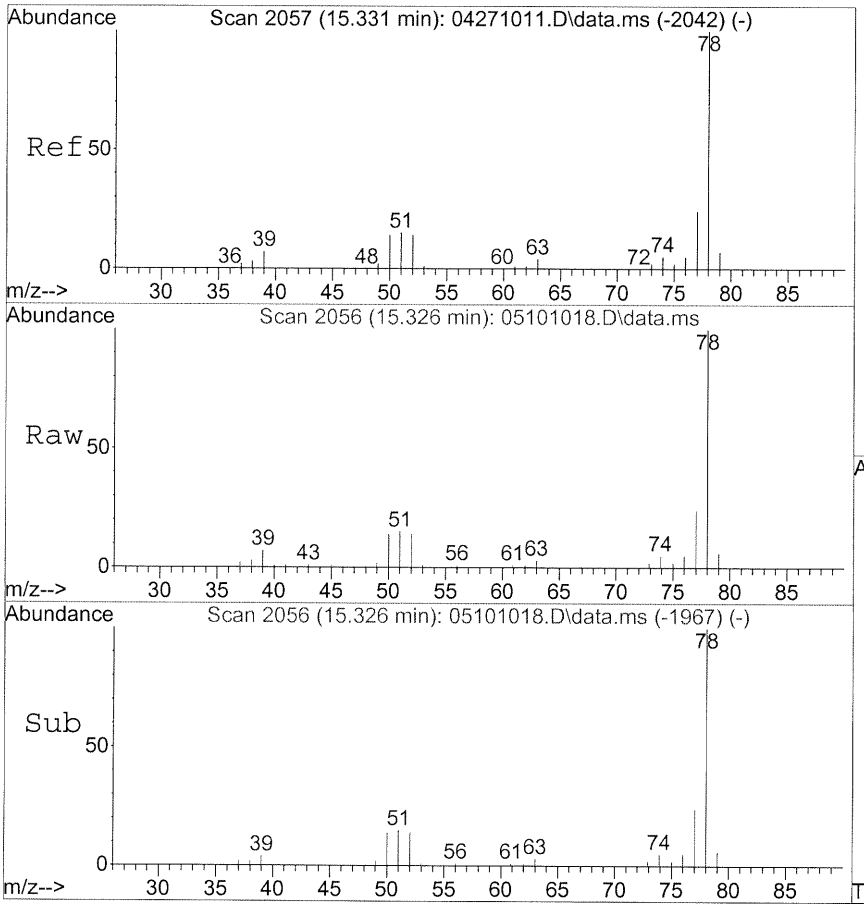


#36
1,2-Dichloroethane
Concen: 7.51 ng
RT: 14.22 min Scan# 1862
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 62 Resp: 245481

Ion	Ratio	Lower	Upper
62	100		
64	31.8	12.0	52.0

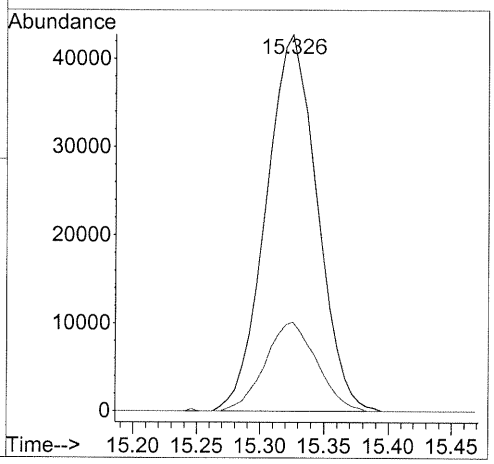


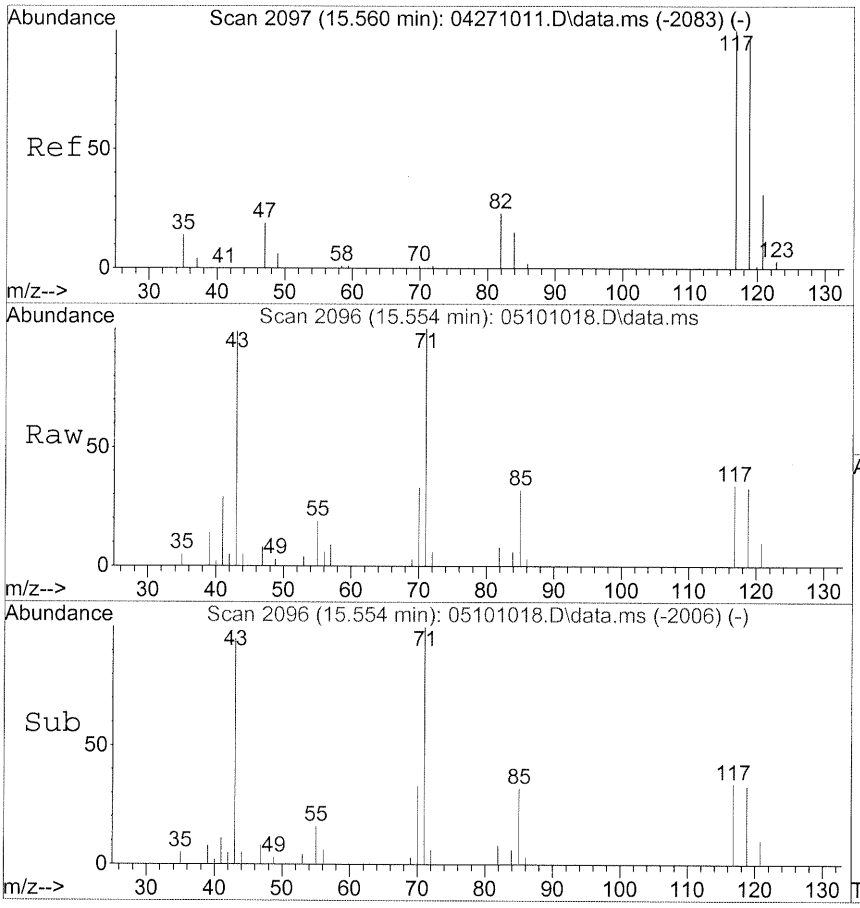


#41
Benzene
Concen: 1.11 ng
RT: 15.33 min Scan# 2056
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 78 Resp: 118815

Ion	Ratio	Lower	Upper
78	100		
77	23.8	4.4	44.4

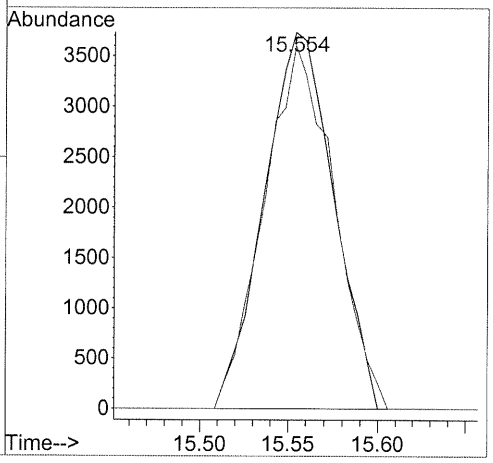


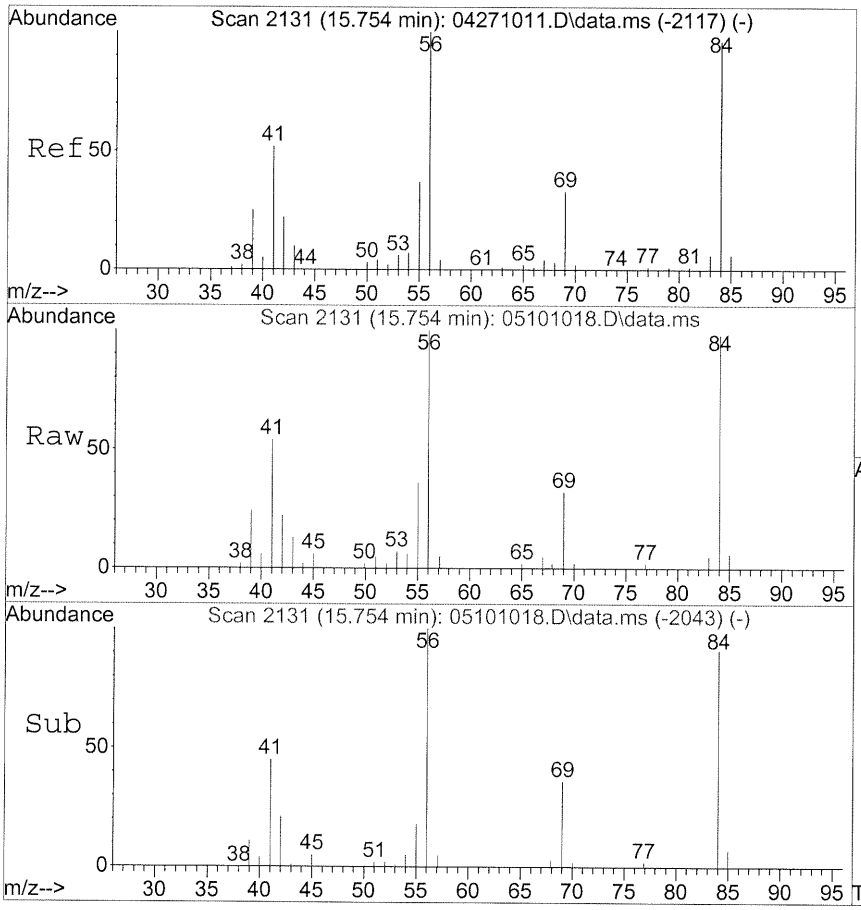


#42
Carbon Tetrachloride
Concen: 0.31 ng
RT: 15.55 min Scan# 2096
Delta R.T. 0.012 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:117 Resp: 10064

Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.8	115.8

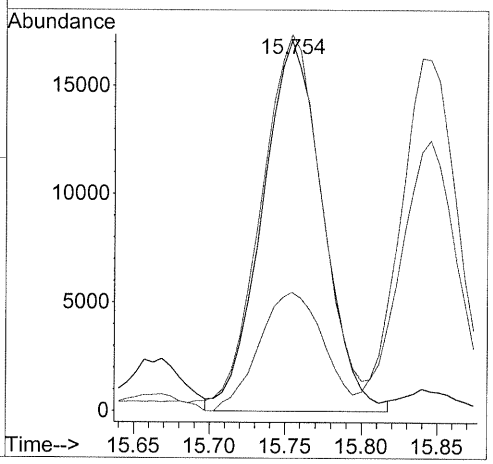


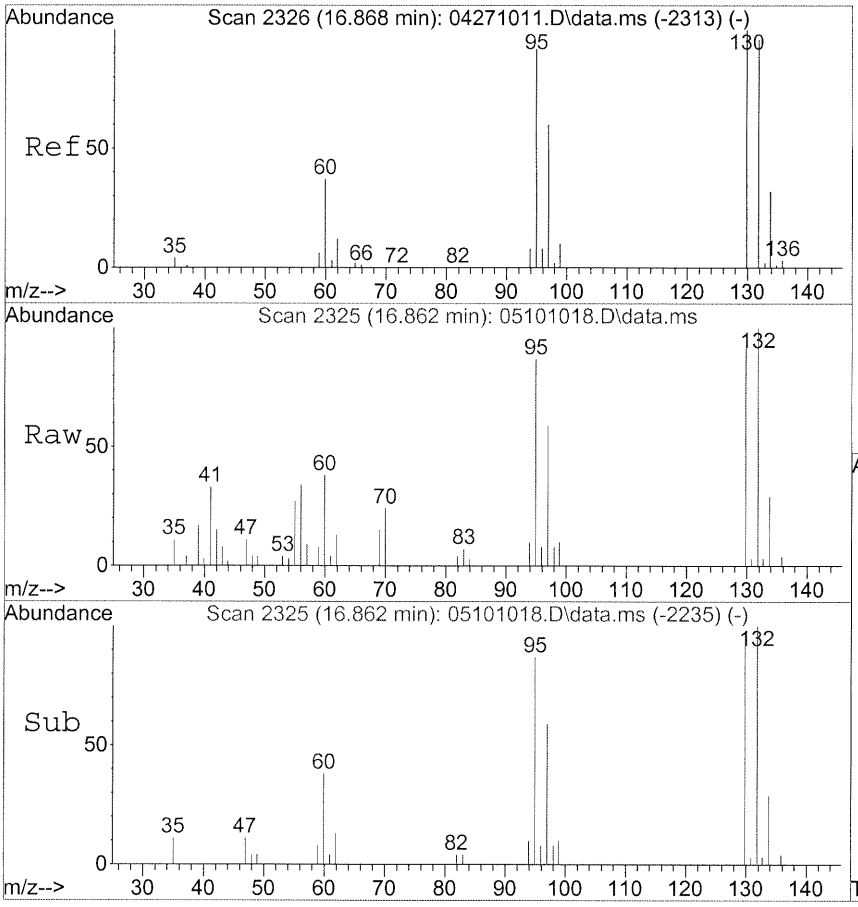


#43
Cyclohexane
Concen: 1.19 ng
RT: 15.75 min Scan# 2131
Delta R.T. 0.000 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 84 Resp: 47262

Ion	Ratio	Lower	Upper
84	100		
69	33.9	18.4	58.4
56	103.2	112.6	152.6#

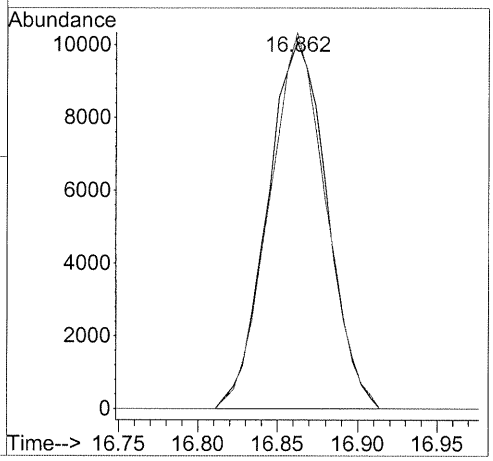


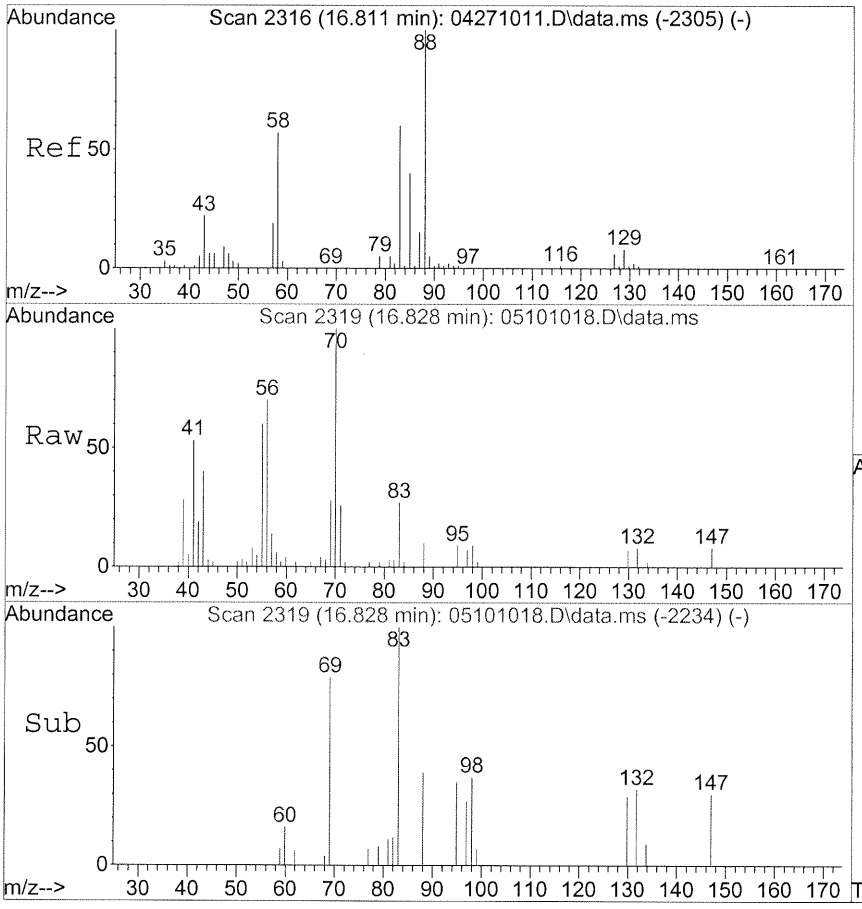


#47
Trichloroethene
Concen: 0.87 ng
RT: 16.86 min Scan# 2325
Delta R.T. 0.012 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:130 Resp: 26001

Ion	Ratio	Lower	Upper
130	100		
132	97.0	75.3	115.3

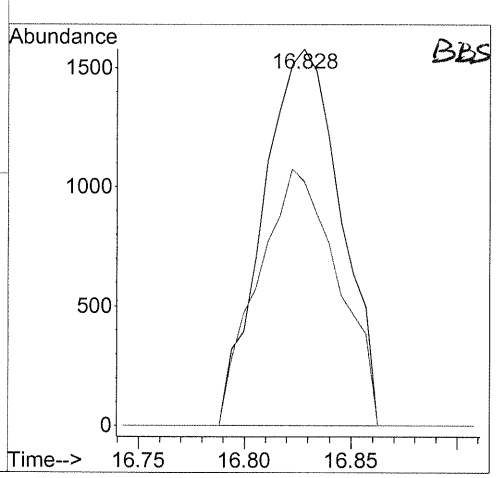




#48
1,4-Dioxane
Concen: 0.19 ng
RT: 16.83 min Scan# 2319
Delta R.T. -0.017 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

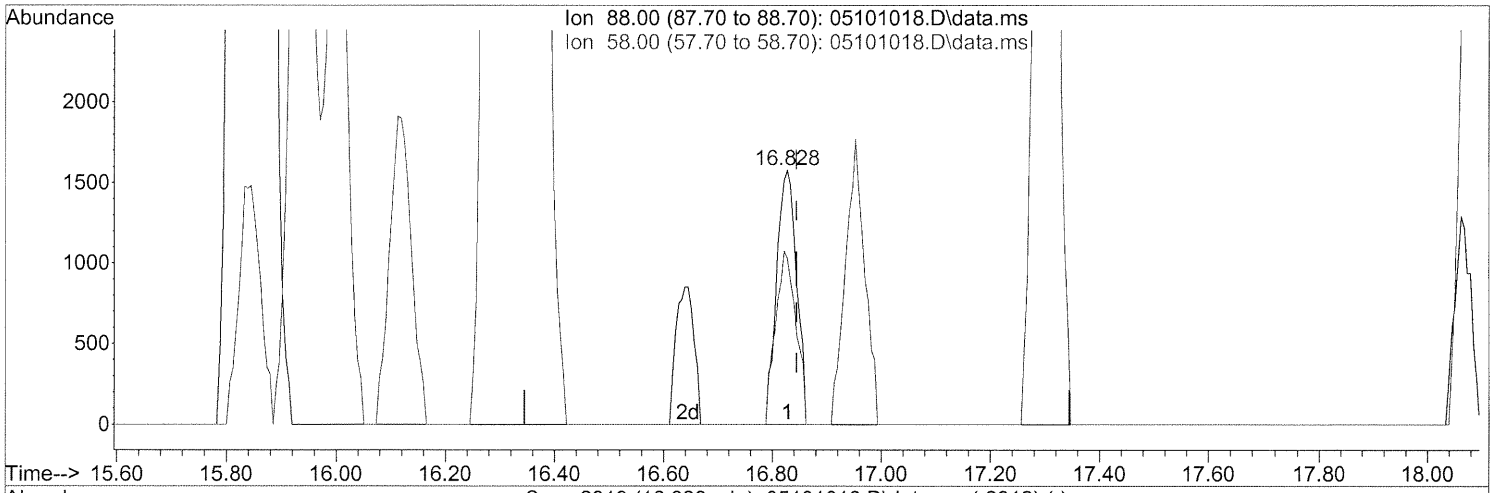
Tgt Ion: 88 Resp: 3979

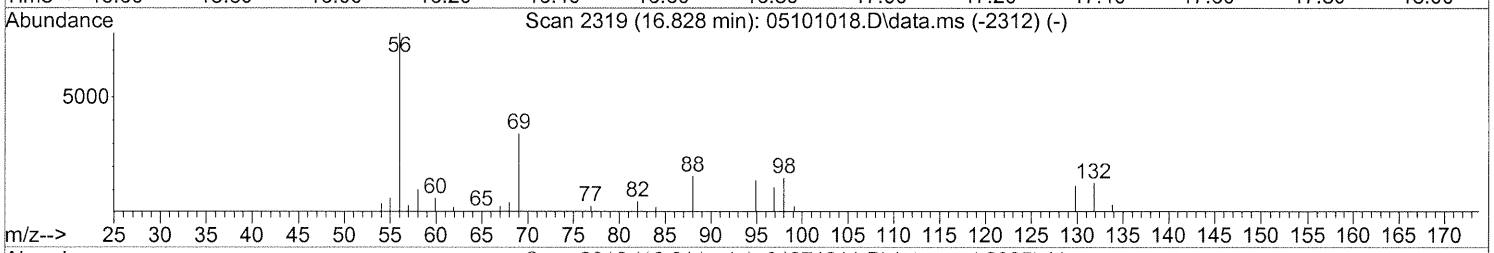
Ion	Ratio	Lower	Upper
88	100		
58	69.9	52.5	92.5

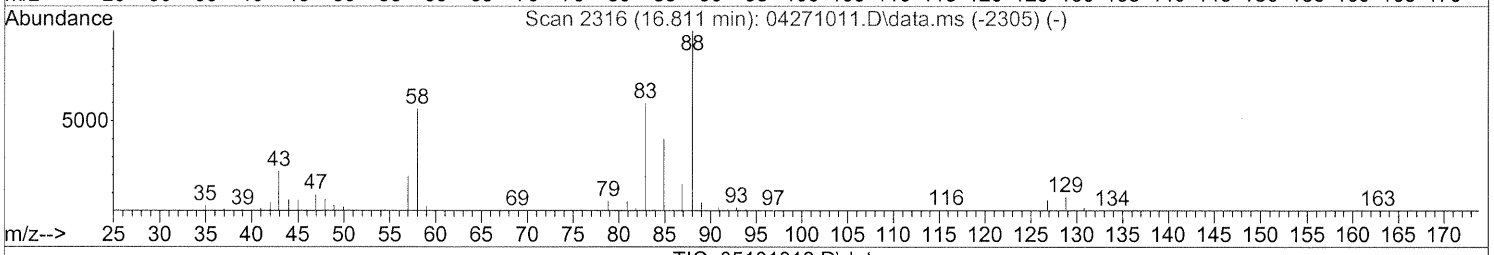


Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101018.D\data.ms

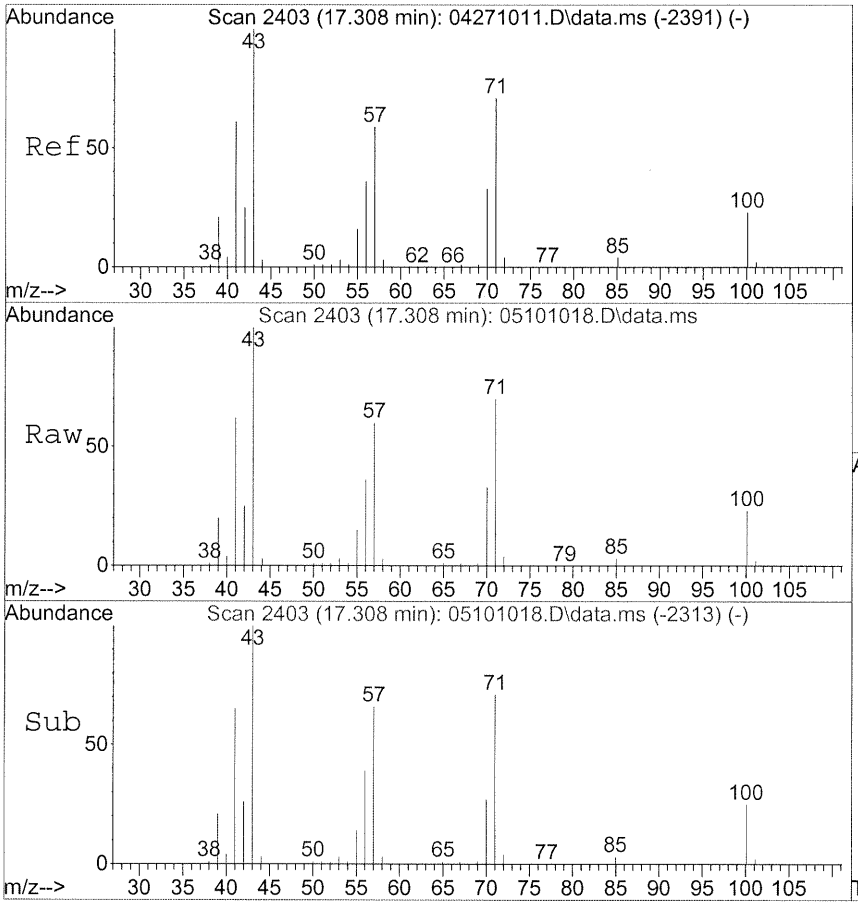
(48) 1,4-Dioxane (T)

16.828min (-0.017) 0.19ng

response 3979

ABS

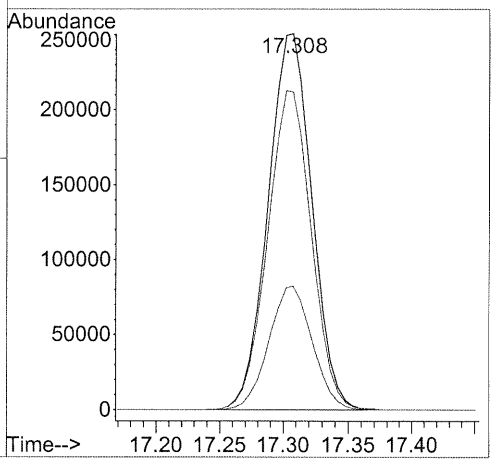
Ion	Exp%	Act%
88.00	100	100
58.00	72.50	69.89
0.00	0.00	0.00
0.00	0.00	0.00

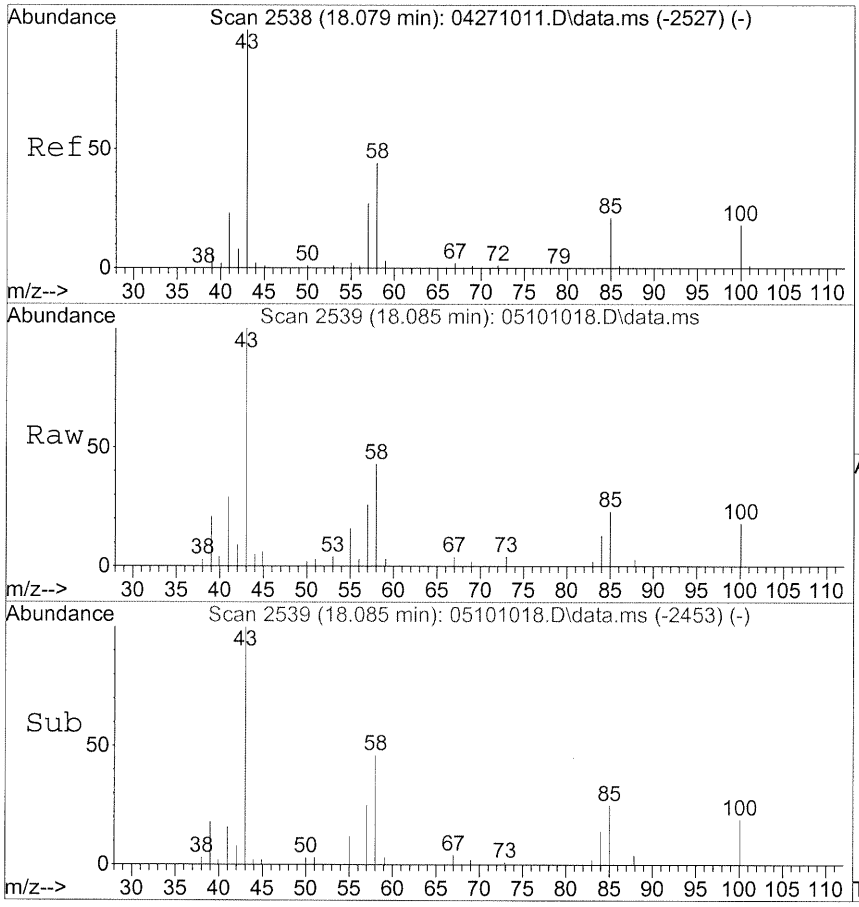


#51
n-Heptane
Concen: 23.50 ng
RT: 17.31 min Scan# 2403
Delta R.T. 0.012 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 71 Resp: 596942

Ion	Ratio	Lower	Upper
71	100		
57	84.4	74.9	114.9
100	32.4	5.0	45.0

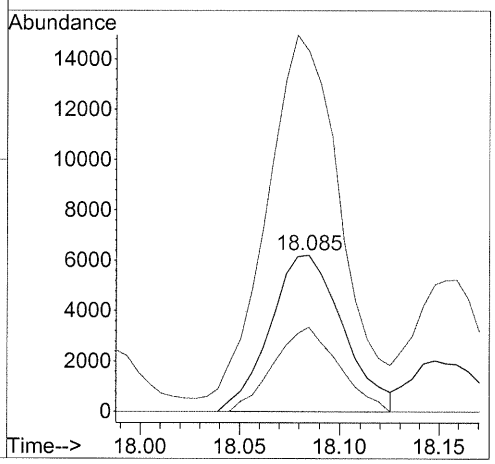


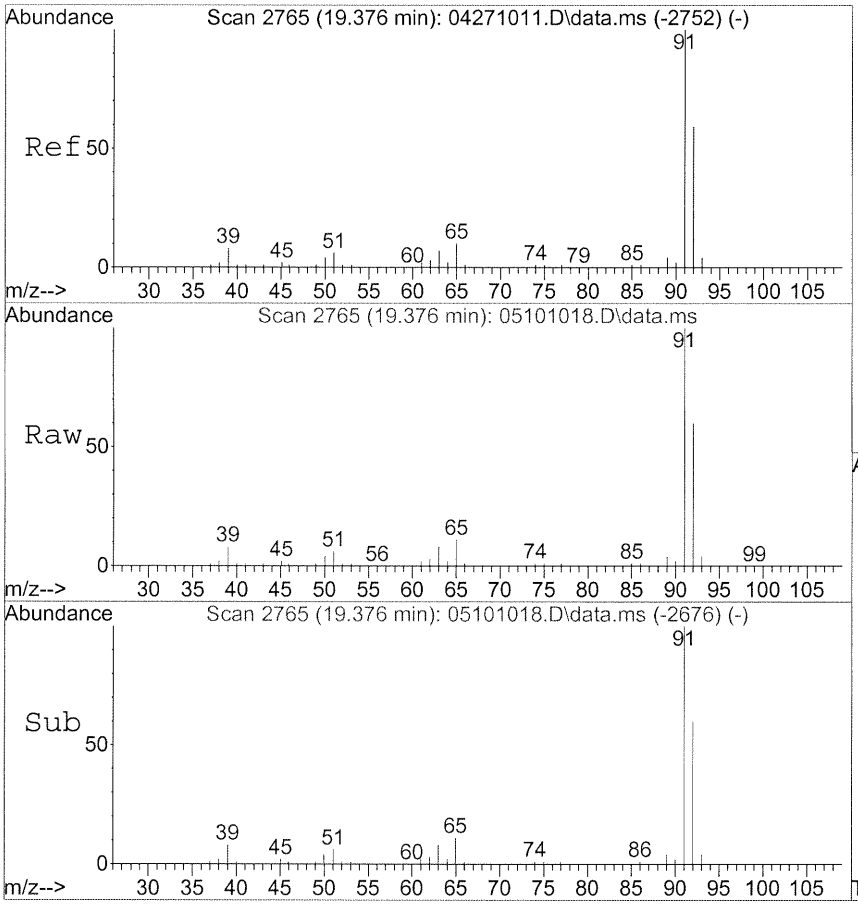


#53
4-Methyl-2-pentanone
Concen: 0.77 ng
RT: 18.08 min Scan# 2539
Delta R.T. -0.011 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 58 Resp: 15610

Ion	Ratio	Lower	Upper
58	100		
43	229.7	207.1	310.7
85	48.0	31.4	47.2#

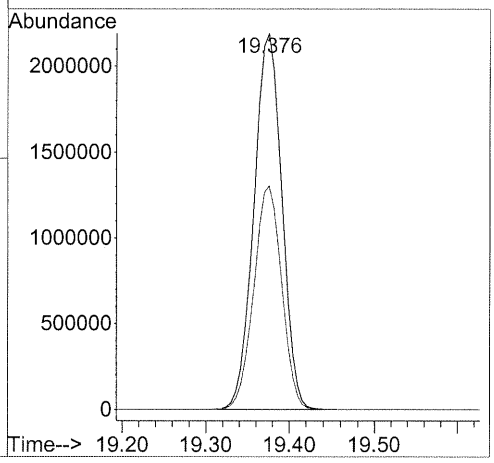


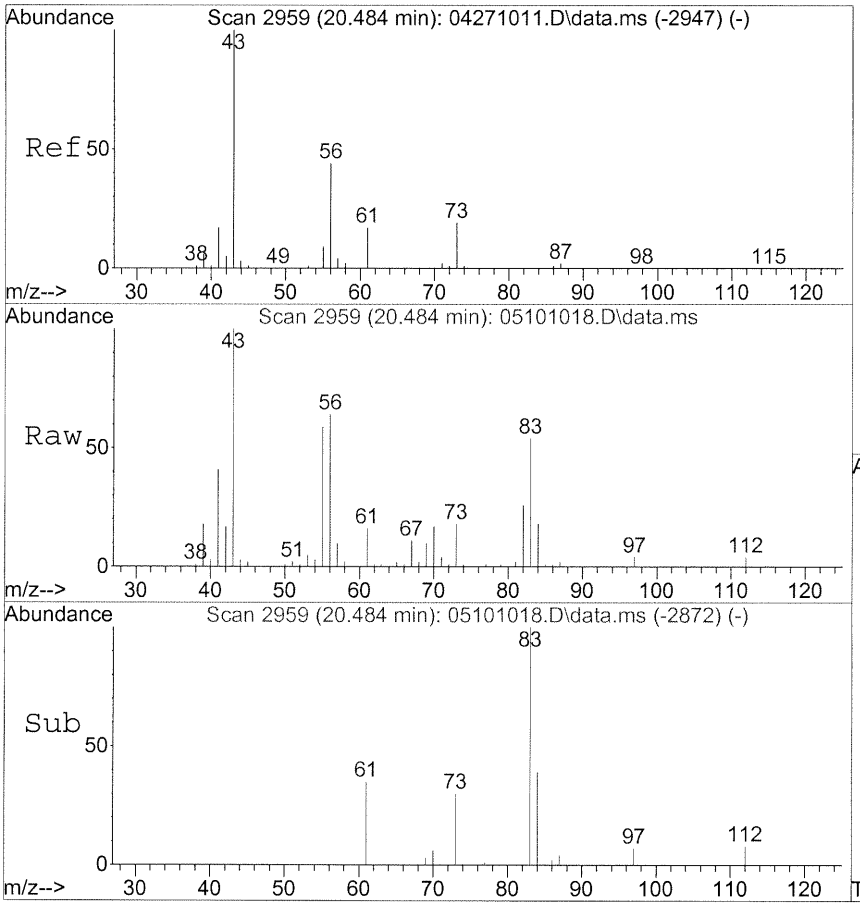


#58
Toluene
Concen: 37.02 ng
RT: 19.38 min Scan# 2765
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 91 Resp: 5109240

Ion	Ratio	Lower	Upper
91	100		
92	59.3	37.6	77.6

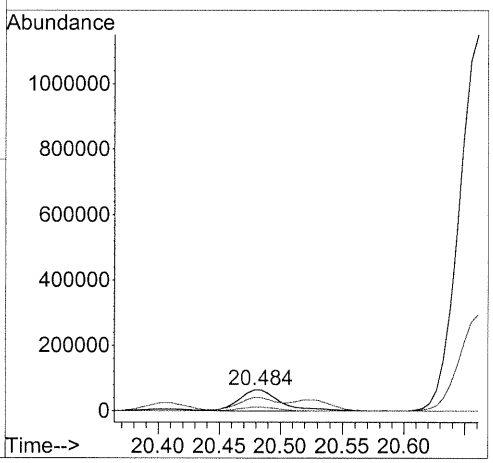


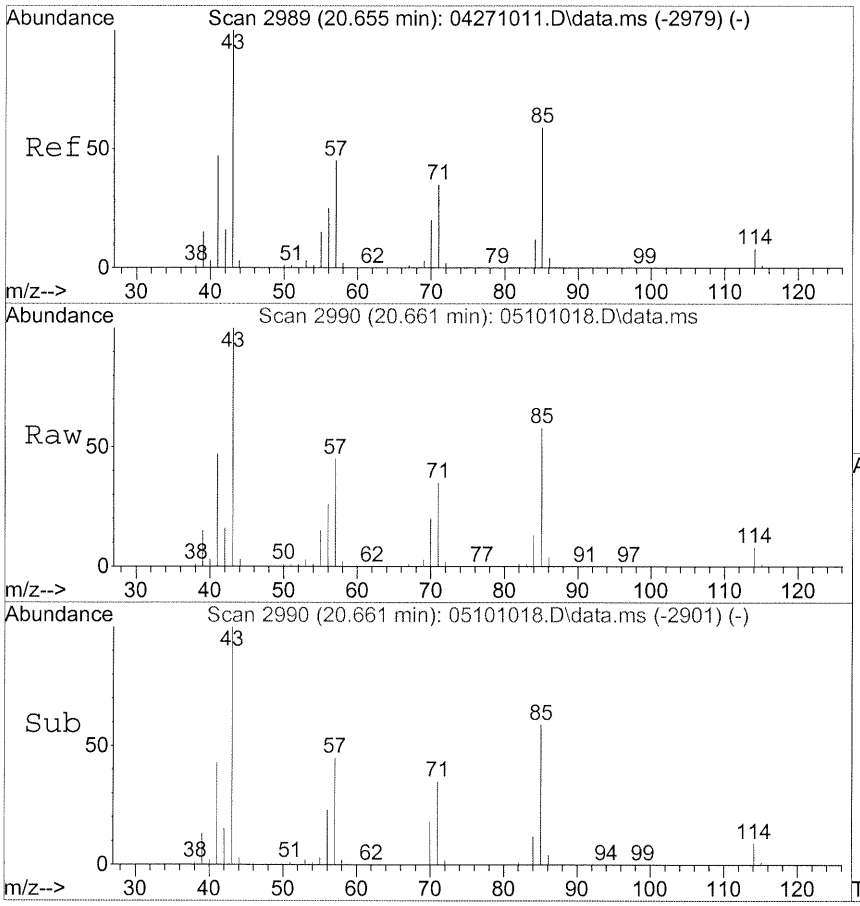


#62
n-Butyl Acetate
Concen: 2.24 ng
RT: 20.48 min Scan# 2959
Delta R.T. -0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 43 Resp: 149196

Ion	Ratio	Lower	Upper
43	100		
56	57.8	19.7	59.7
73	16.4	0.0	34.2

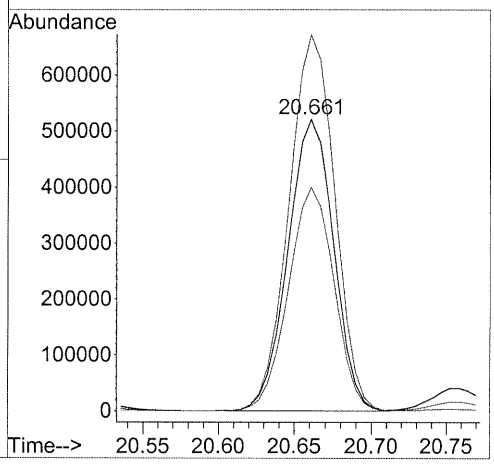


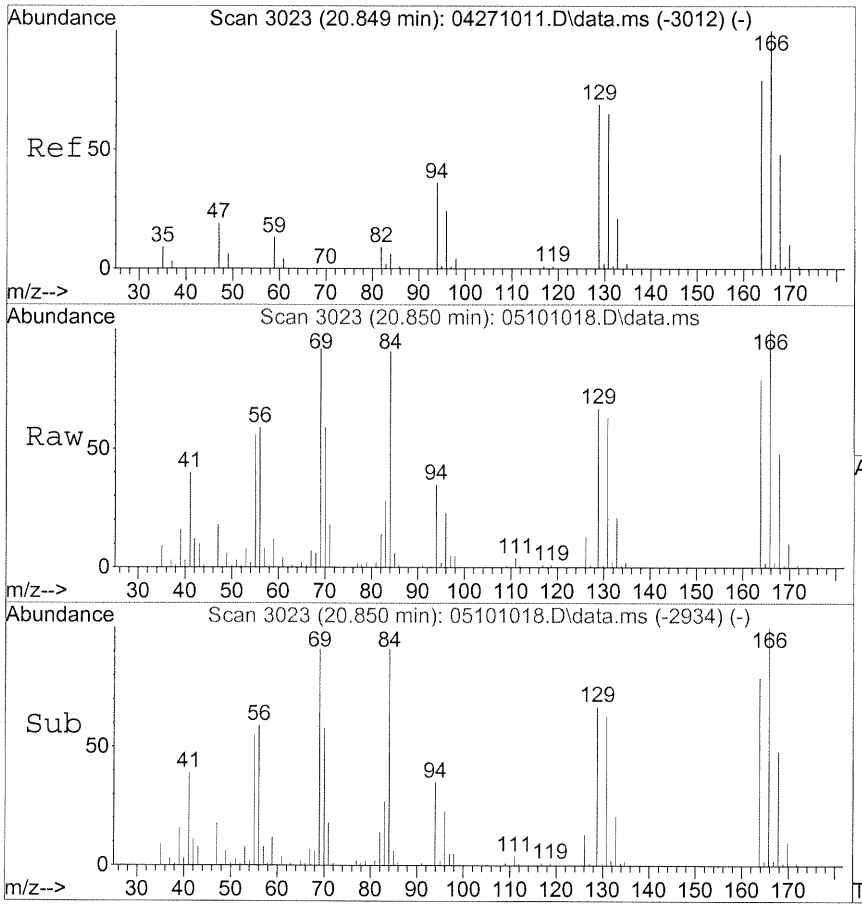


#63
n-Octane
Concen: 43.25 ng
RT: 20.66 min Scan# 2990
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 57 Resp: 1071318

Ion	Ratio	Lower	Upper
57	100		
85	129.3	81.8	122.8#
71	76.5	55.0	82.6

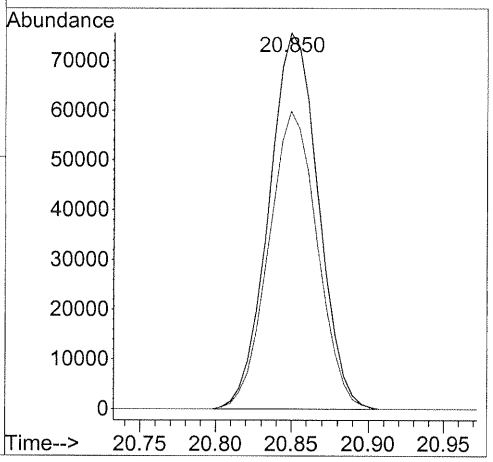


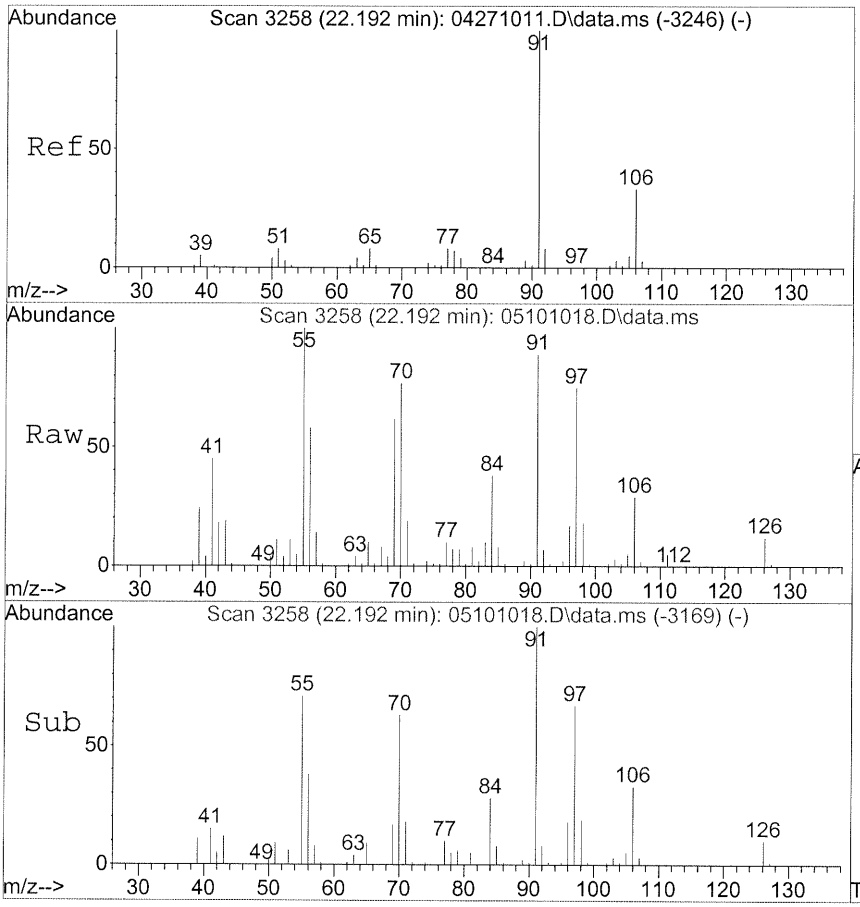


#64
Tetrachloroethene
Concen: 3.94 ng
RT: 20.85 min Scan# 3023
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:166 Resp: 170017

Ion	Ratio	Lower	Upper
166	100		
164	78.0	58.4	98.4

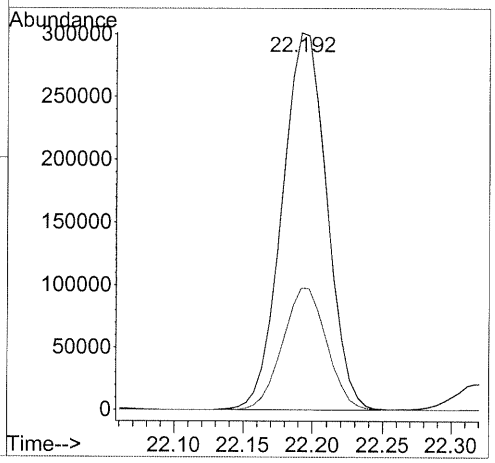


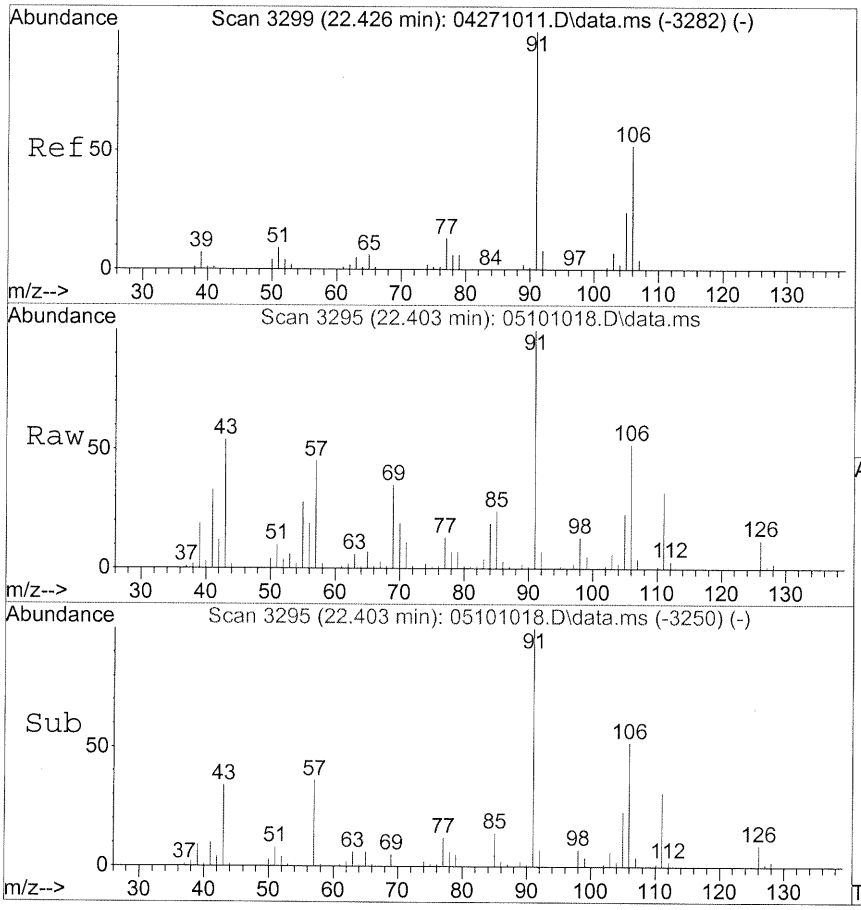


#66
Ethylbenzene
Concen: 4.40 ng
RT: 22.19 min Scan# 3258
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 91 Resp: 665961

Ion	Ratio	Lower	Upper
91	100		
106	31.9	9.8	49.8

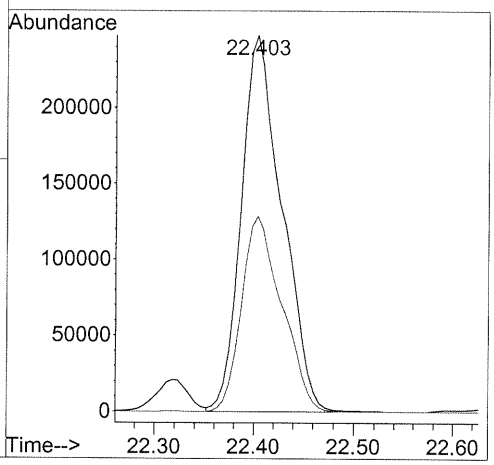


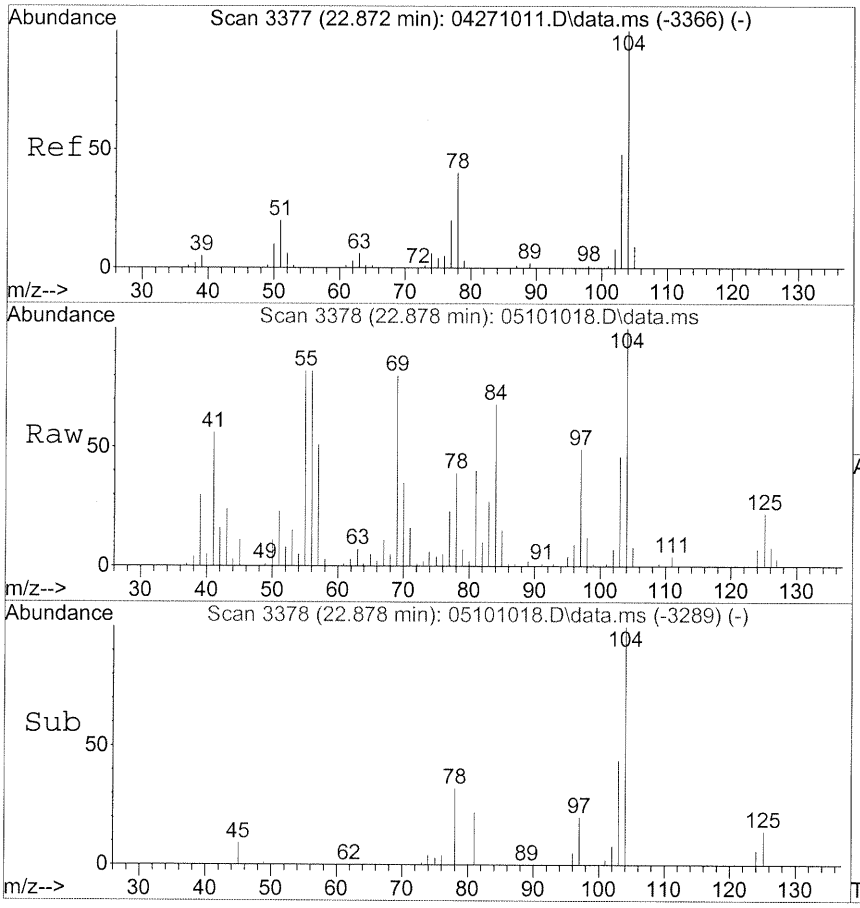


#67
m- & p-Xylenes
Concen: 5.92 ng
RT: 22.40 min Scan# 3295
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 91 Resp: 707717

Ion	Ratio	Lower	Upper
91	100		
106	51.2	26.8	66.8

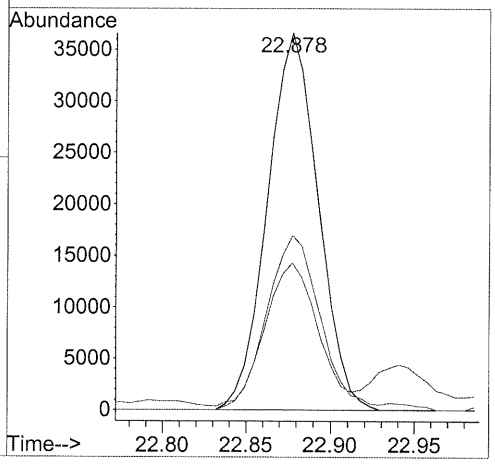


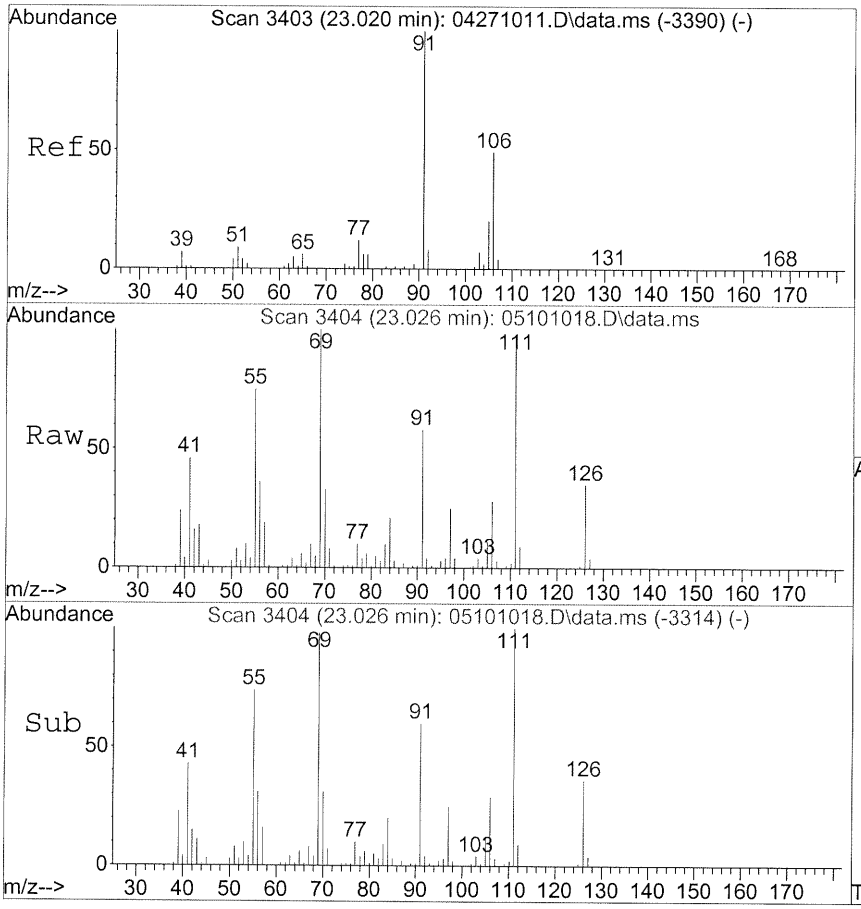


#69
Styrene
Concen: 0.82 ng
RT: 22.88 min Scan# 3378
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:104 Resp: 76733

Ion	Ratio	Lower	Upper
104	100		
78	41.5	26.1	66.1
103	49.7	28.7	68.7

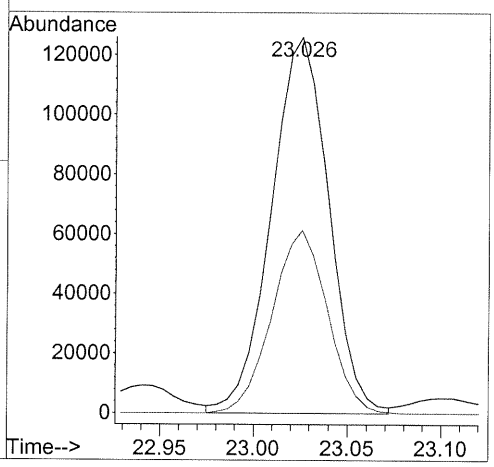


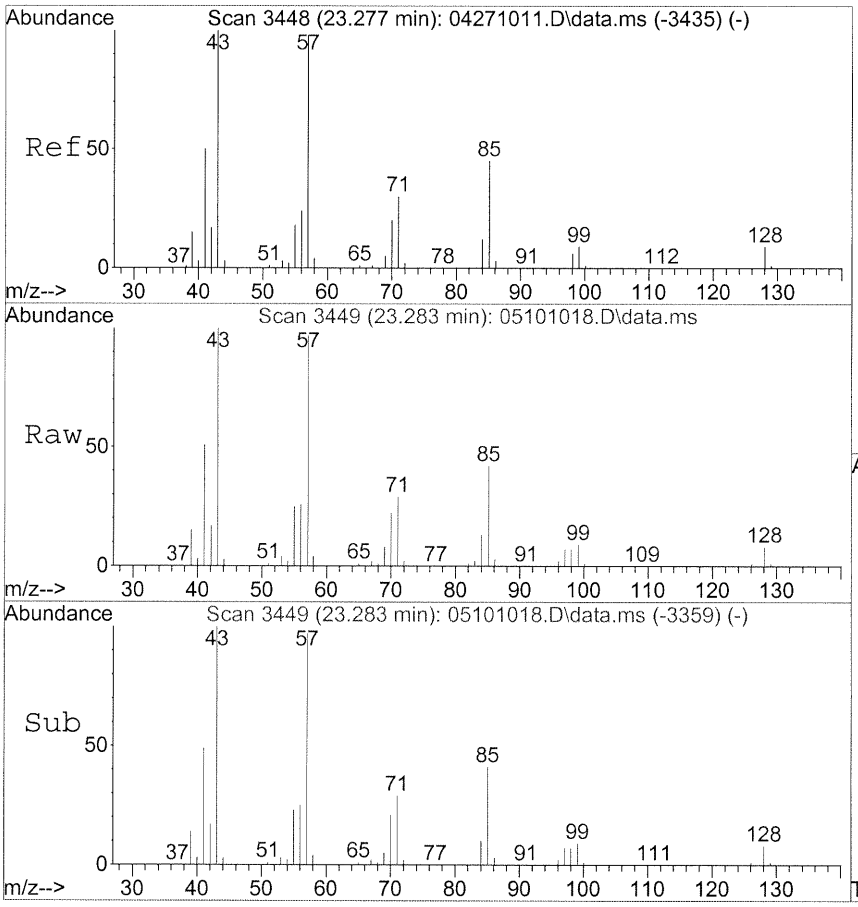


#70
o-Xylene
Concen: 2.19 ng
RT: 23.03 min Scan# 3404
Delta R.T. 0.012 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 91 Resp: 267381

Ion	Ratio	Lower	Upper
91	100		
106	46.9	24.4	64.4

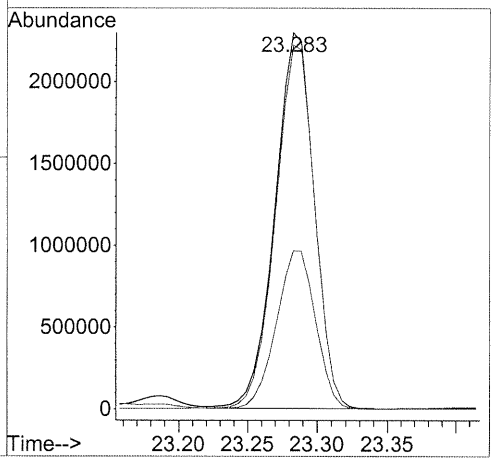


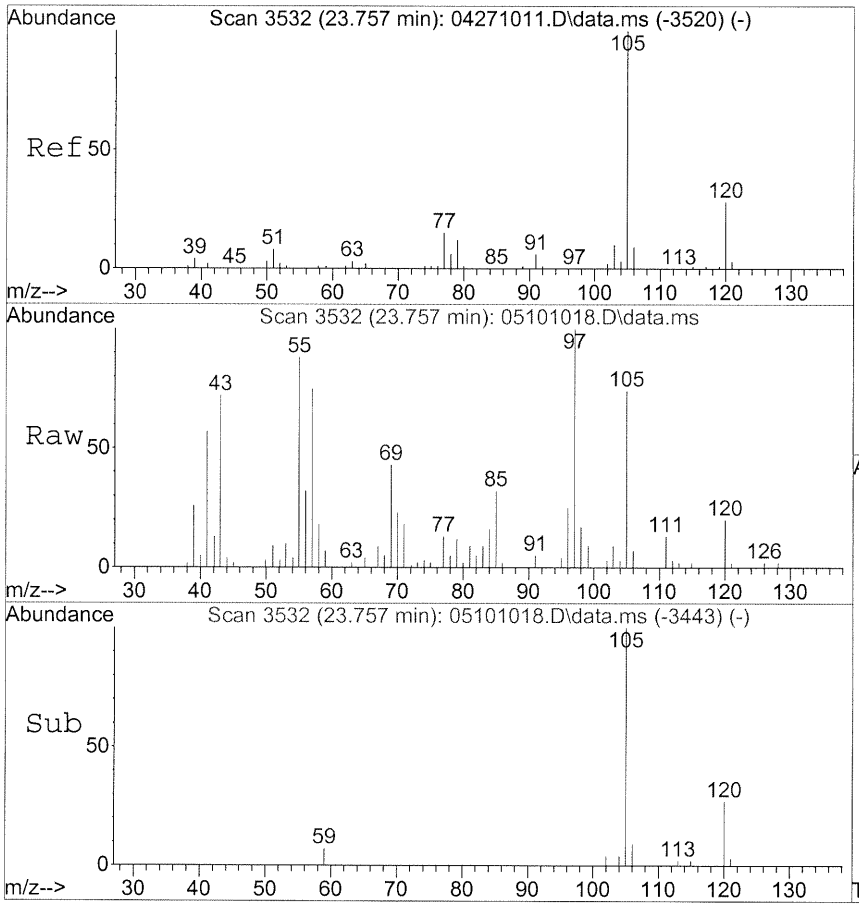


#71
n-Nonane
Concen: 84.29 ng
RT: 23.28 min Scan# 3449
Delta R.T. 0.012 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 43 Resp: 4481152

Ion	Ratio	Lower	Upper
43	100		
57	96.1	65.6	105.6
85	42.3	9.9	49.9

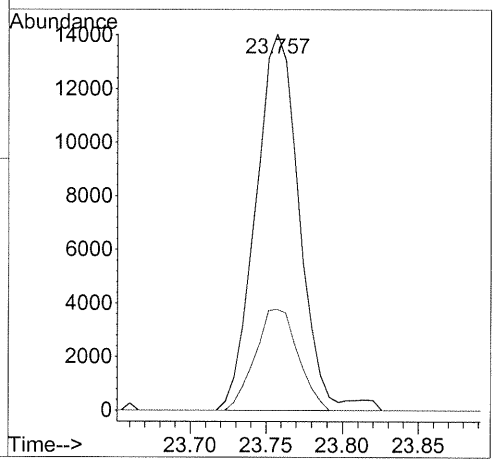


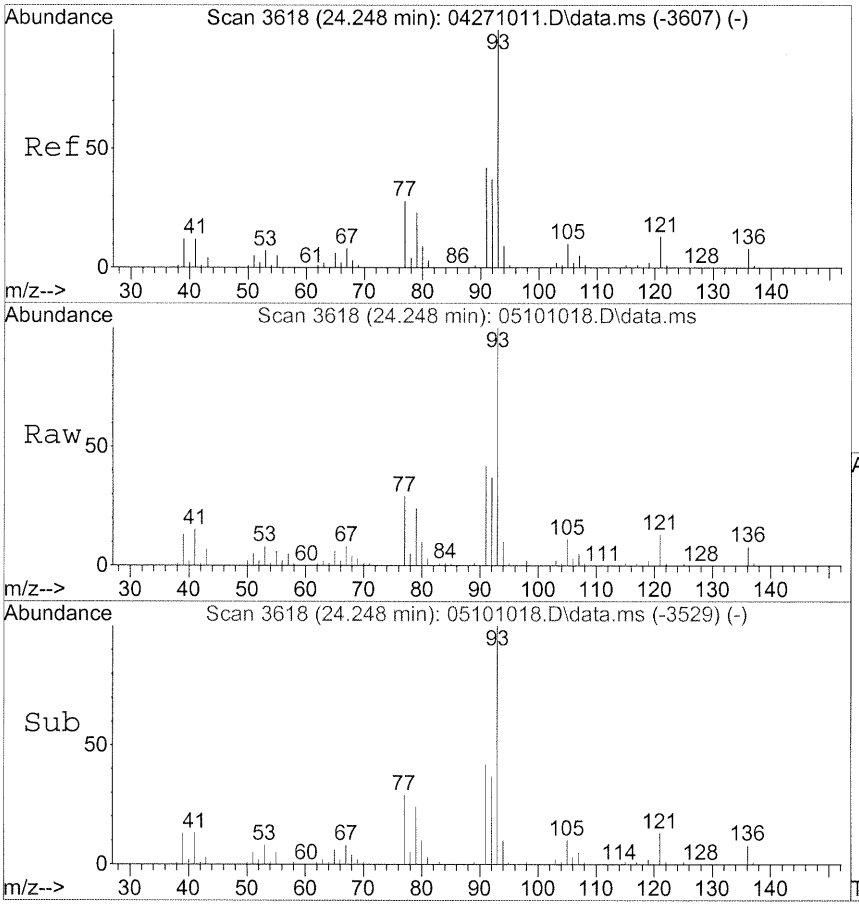


#74
Cumene
Concen: 0.17 ng
RT: 23.76 min Scan# 3532
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:105 Resp: 28154

Ion	Ratio	Lower	Upper
105	100		
120	26.4	5.2	45.2

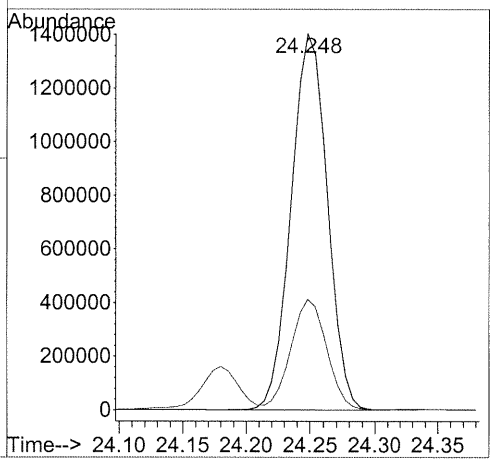


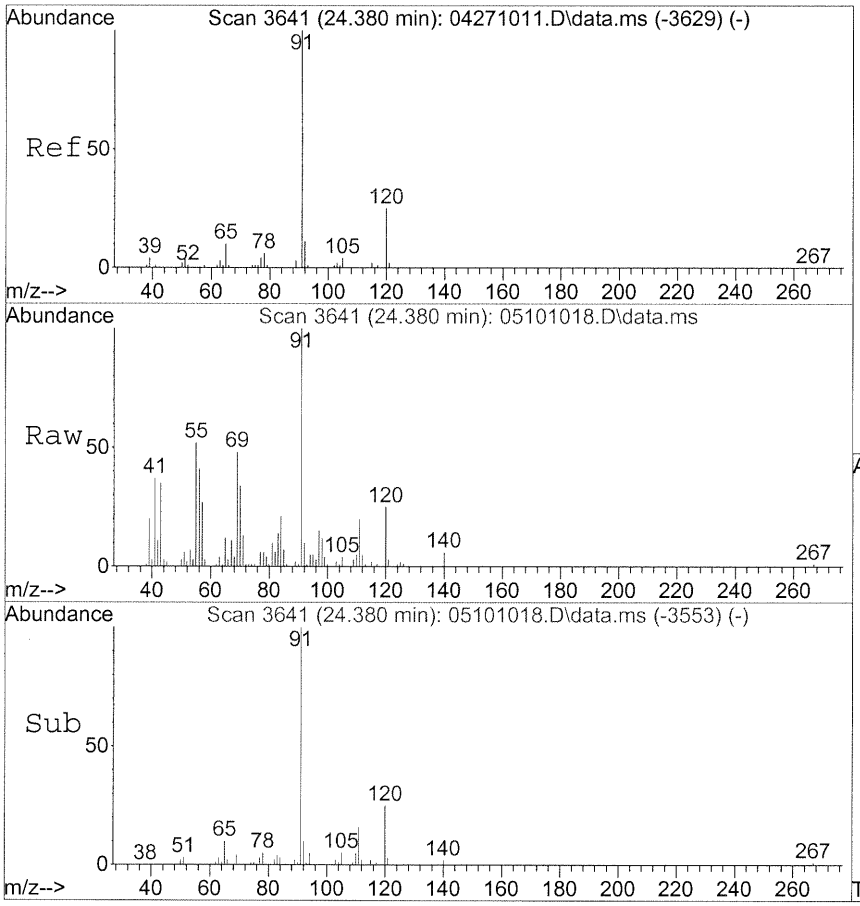


#75
alpha-Pinene
Concen: 34.99 ng
RT: 24.25 min Scan# 3618
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 93 Resp: 2703334

Ion	Ratio	Lower	Upper
93	100		
77	28.9	12.3	52.3

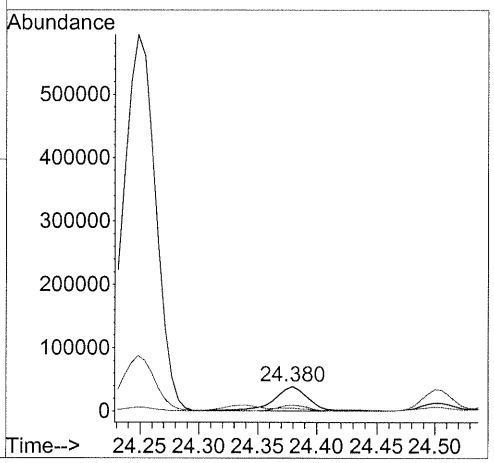


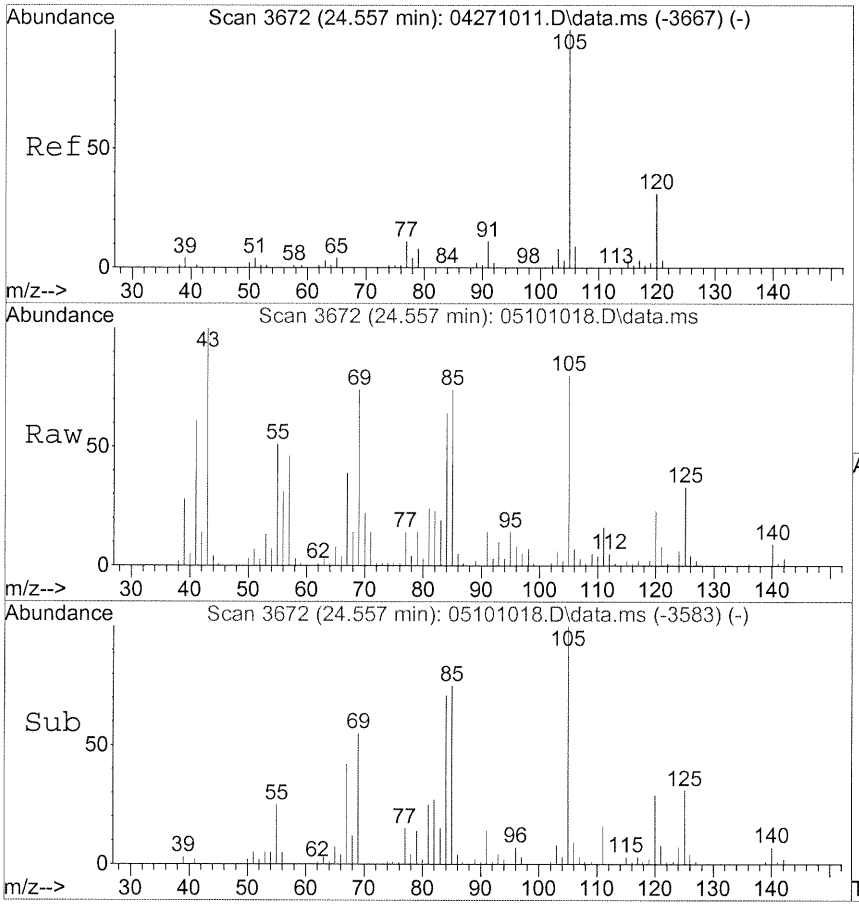


#76
n-Propylbenzene
Concen: 0.40 ng
RT: 24.38 min Scan# 3641
Delta R.T. 0.000 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 91 Resp: 76586

Ion	Ratio	Lower	Upper
91	100		
120	22.0	0.9	40.9
65	0.0	0.0	31.2

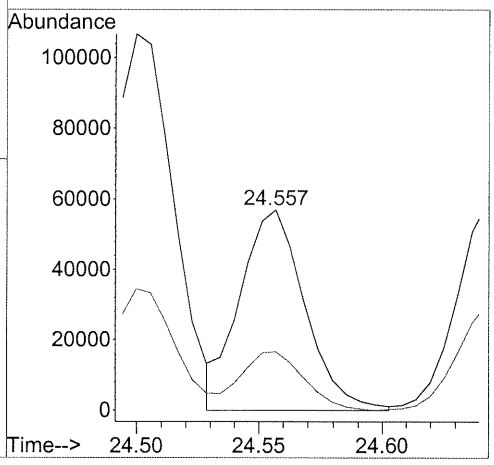


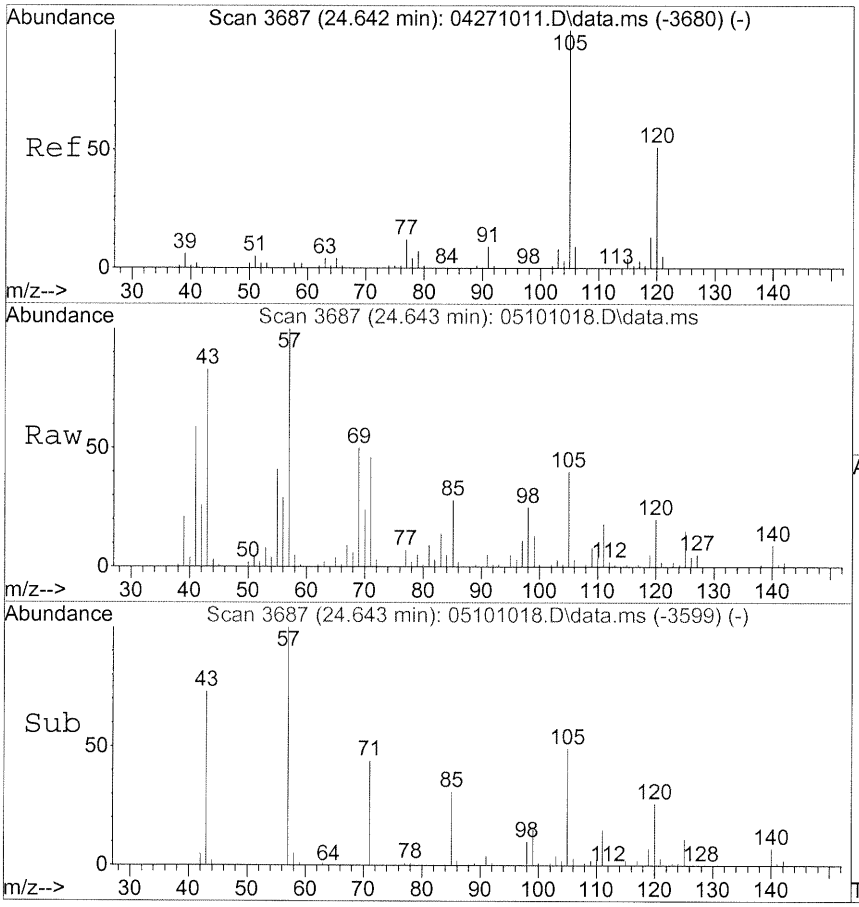


#78
4-Ethyltoluene
Concen: 0.68 ng
RT: 24.56 min Scan# 3672
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:105 Resp: 104780

Ion	Ratio	Lower	Upper
105	100		
120	27.4	8.2	48.2

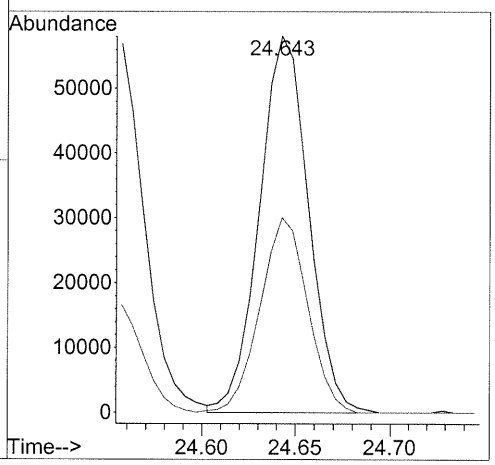


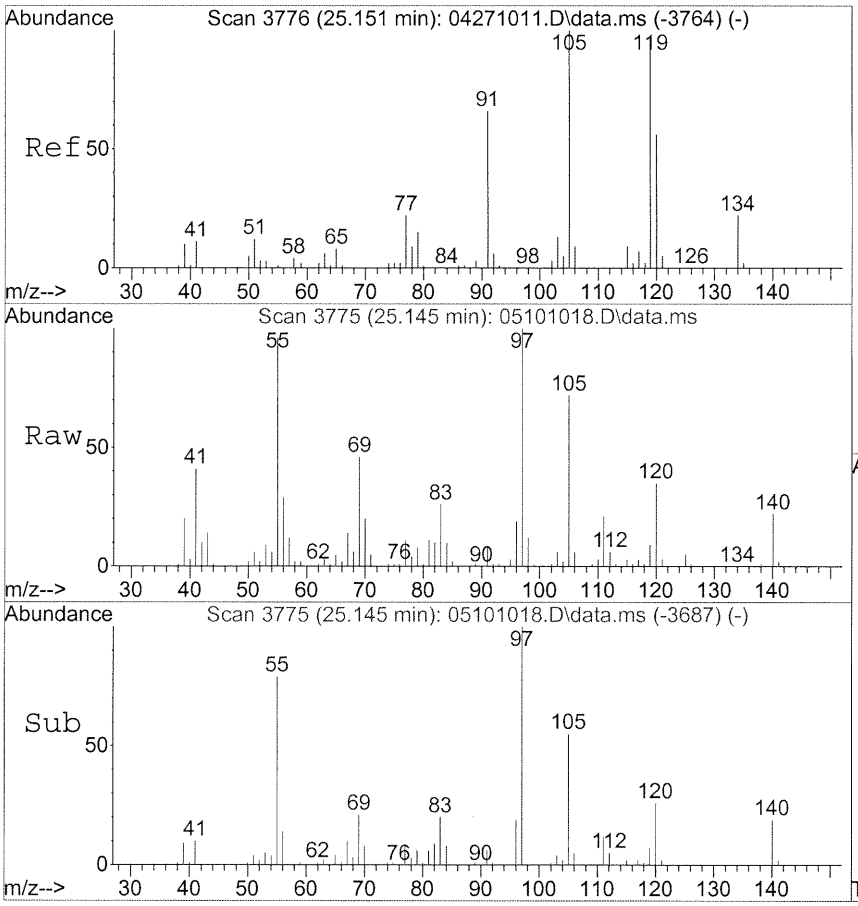


#79
1,3,5-Trimethylbenzene
Concen: 0.84 ng
RT: 24.64 min Scan# 3687
Delta R.T. 0.000 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:105 Resp: 105917

Ion	Ratio	Lower	Upper
105	100		
120	50.1	26.2	66.2

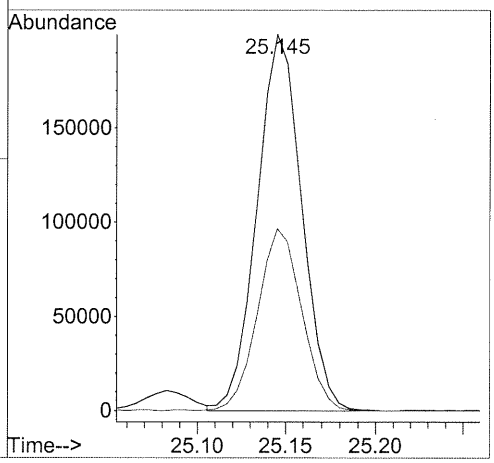


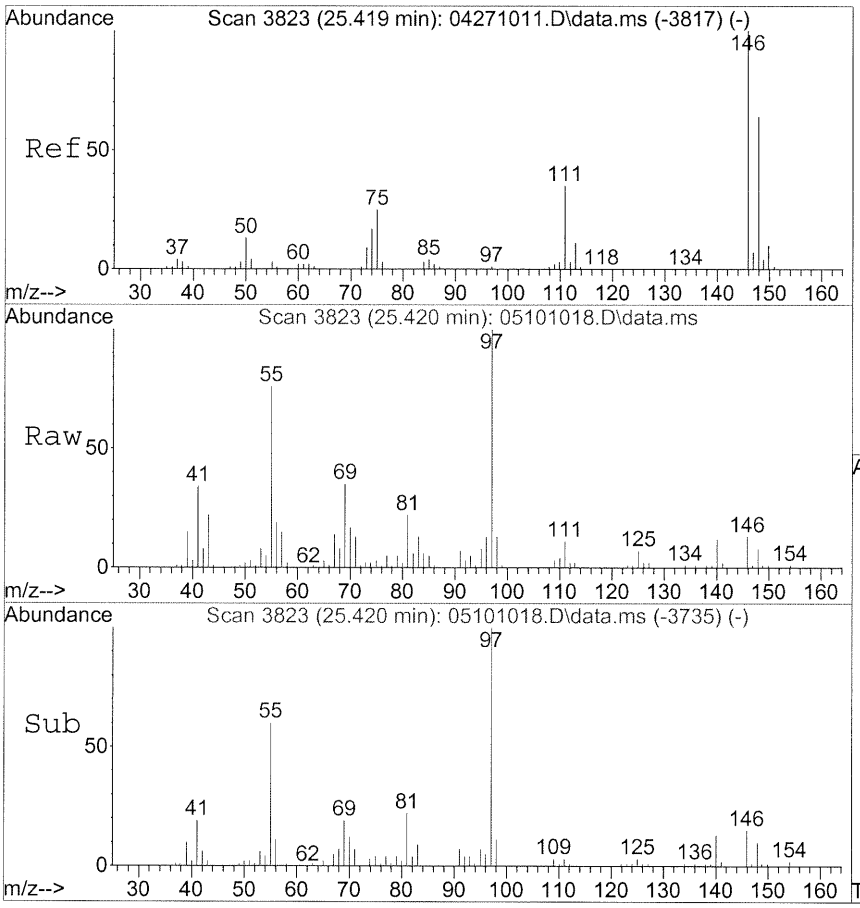


#82
1,2,4-Trimethylbenzene
Concen: 2.70 ng
RT: 25.15 min Scan# 3775
Delta R.T. 0.000 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:105 Resp: 350189

Ion	Ratio	Lower	Upper
105	100		
120	47.8	30.1	70.1

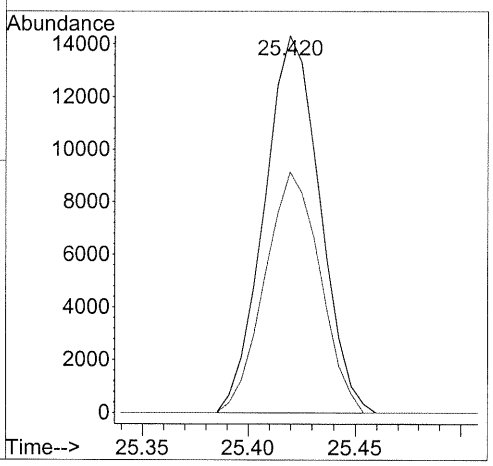


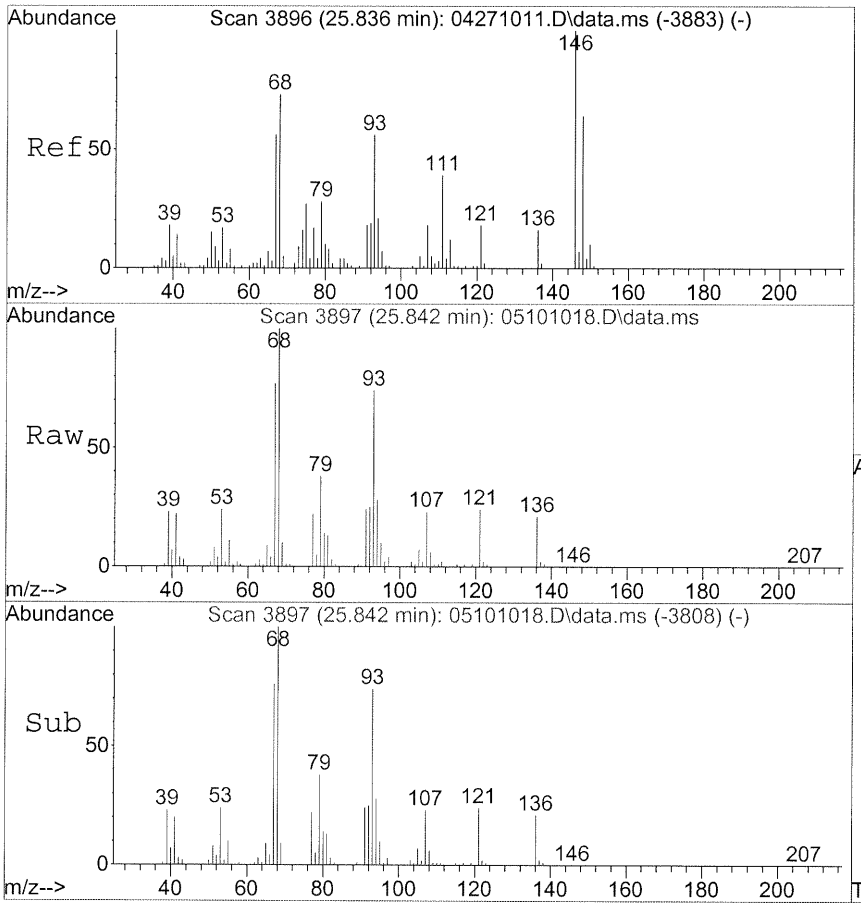


#86
1,4-Dichlorobenzene
Concen: 0.32 ng
RT: 25.42 min Scan# 3823
Delta R.T. 0.000 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion:146 Resp: 25875

Ion	Ratio	Lower	Upper
146	100		
148	63.3	43.8	83.8

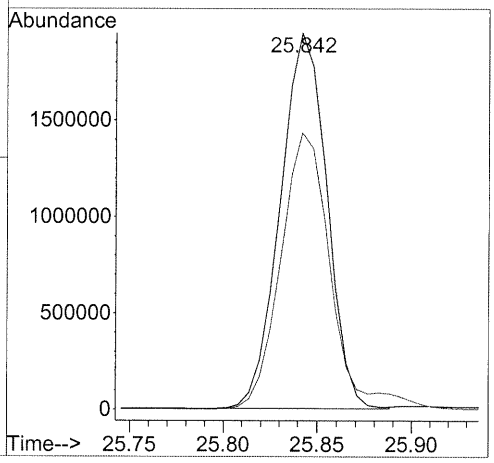


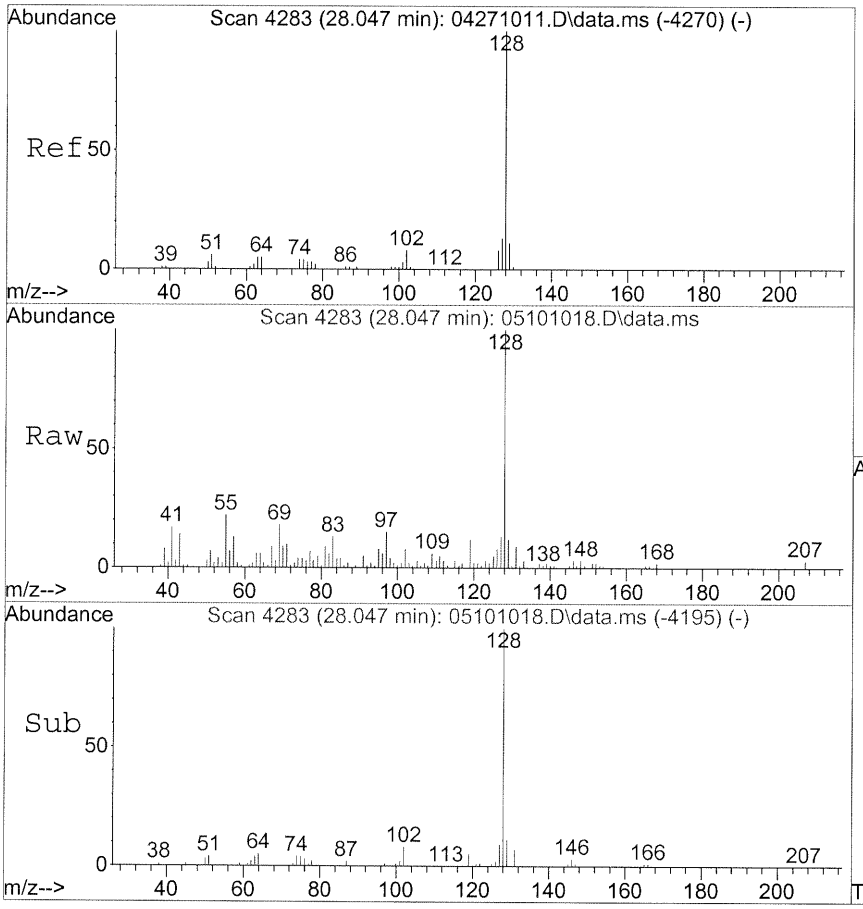


#91
d-Limonene
Concen: 73.82 ng
RT: 25.84 min Scan# 3897
Delta R.T. 0.006 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

Tgt Ion: 68 Resp: 3324008

Ion	Ratio	Lower	Upper
68	100		
93	79.0	42.0	82.0

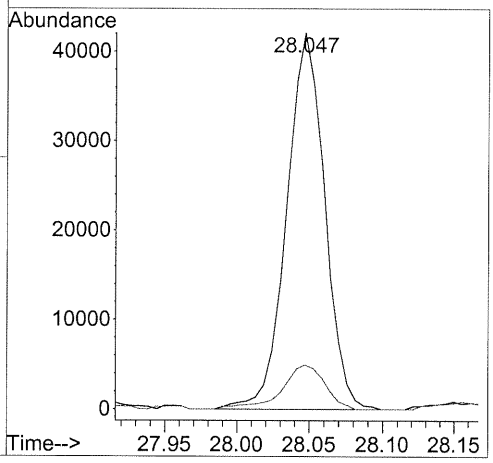




#95
Naphthalene
Concen: 0.46 ng
RT: 28.05 min Scan# 4283
Delta R.T. 0.000 min
Lab File: 05101018.D
Acq: 11 May 2010 00:17

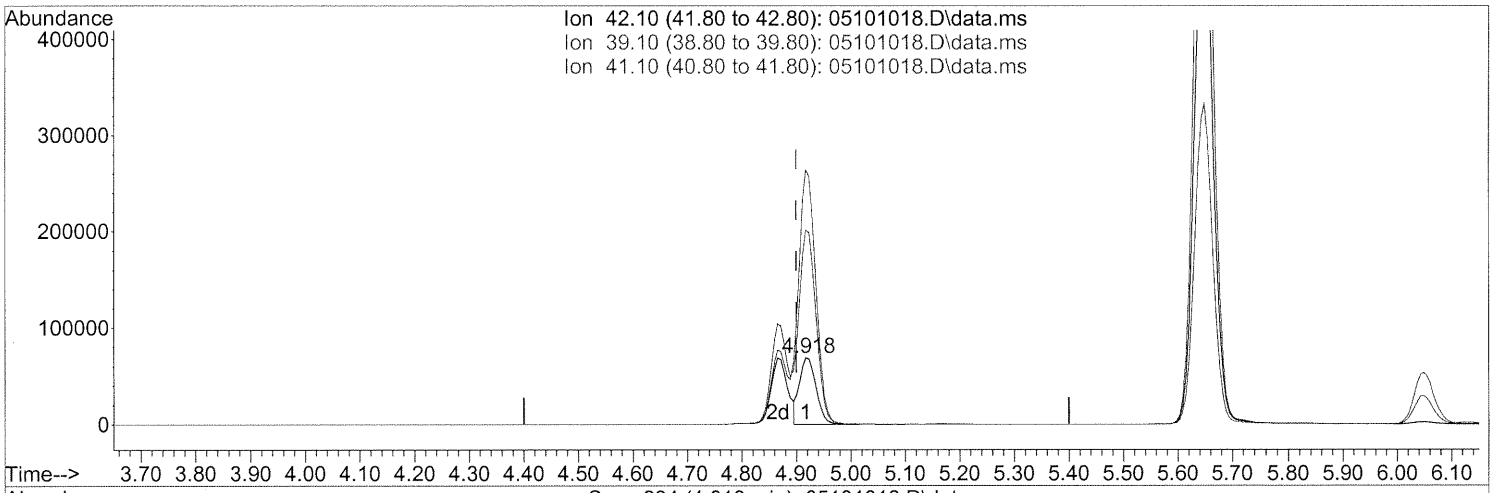
Tgt Ion:128 Resp: 76171

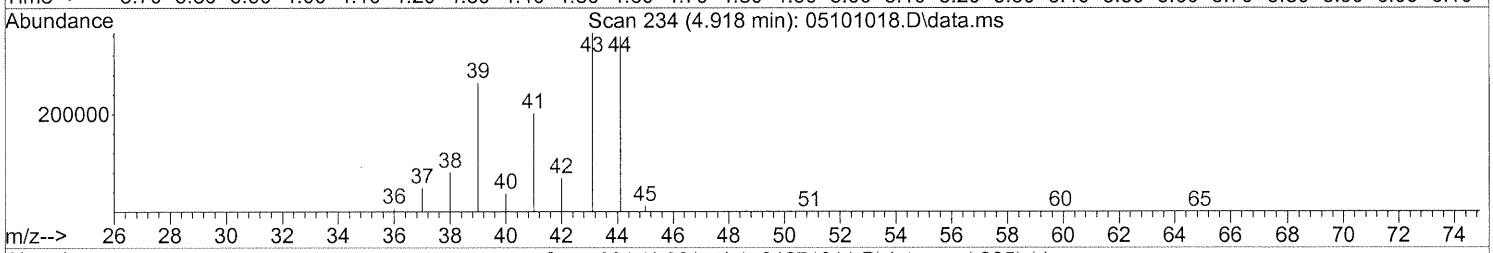
Ion	Ratio	Lower	Upper
128	100		
129	13.2	0.0	31.1

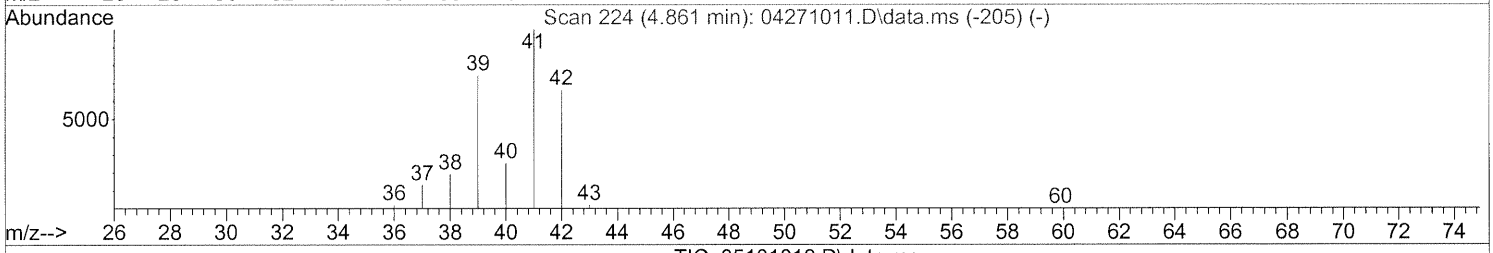


Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101018.D\data.ms

(2) Propene (T)

4.918min (+0.017) 6.49ng

response 146787

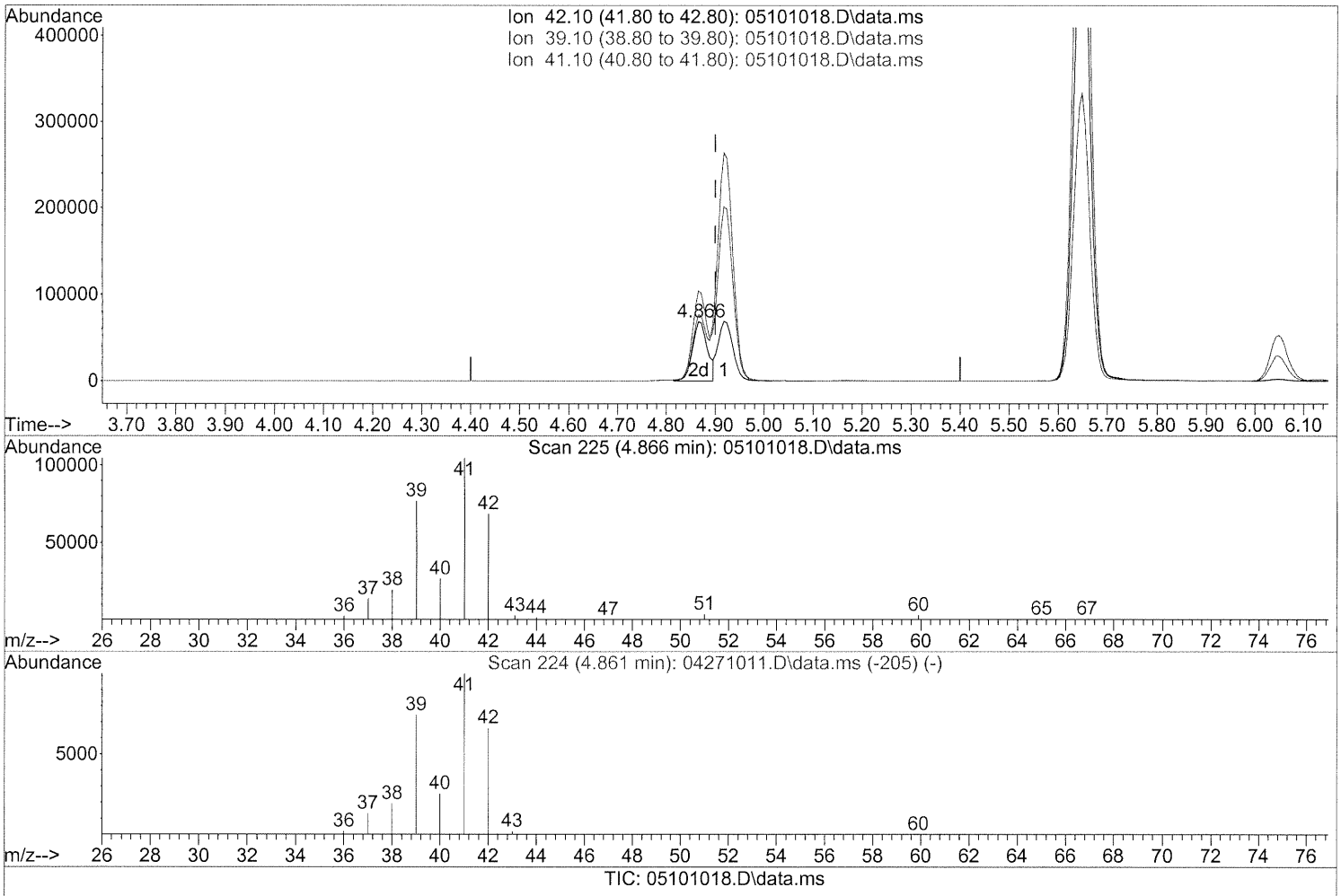
MP

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	397.18#
41.10	153.90	306.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101018.D\data.ms

(2) Propene (T)

4.866min (-0.034) 6.36ng m

response 143996

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	404.87#
41.10	153.90	311.94#
0.00	0.00	0.00

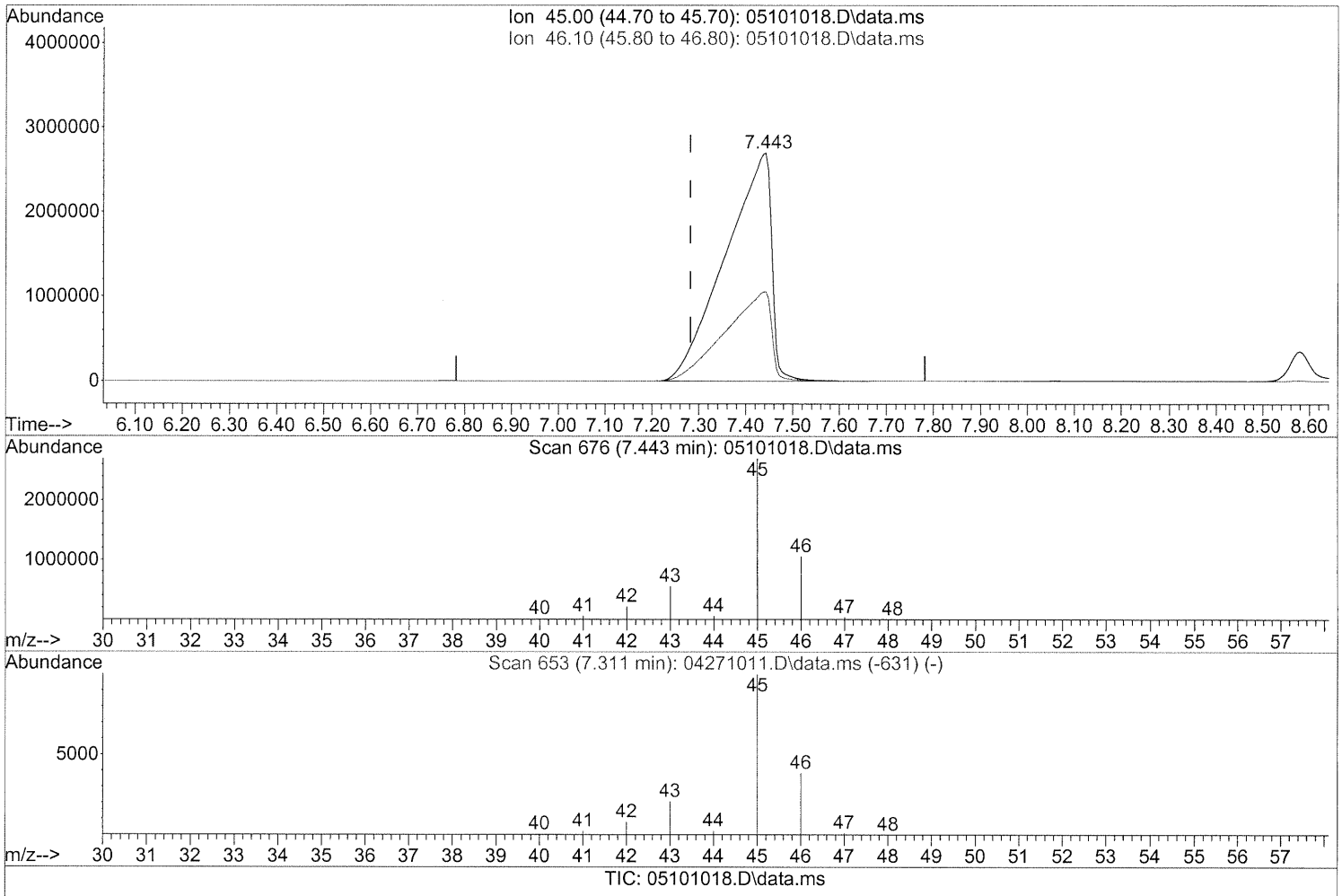
MP → IC

5/17/10

5/18/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
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Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
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TIC: 05101018.D\data.ms

(10) Ethanol (T)

7.443min (+0.160) 1331.34ng m

response 18352434

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

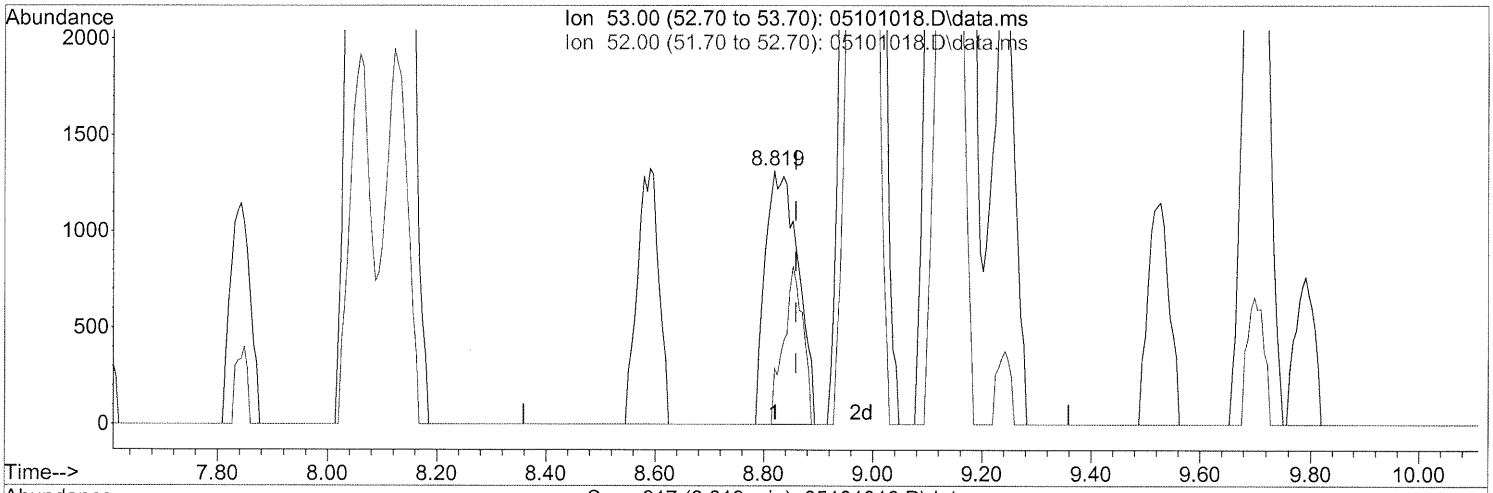
MP-7 IC

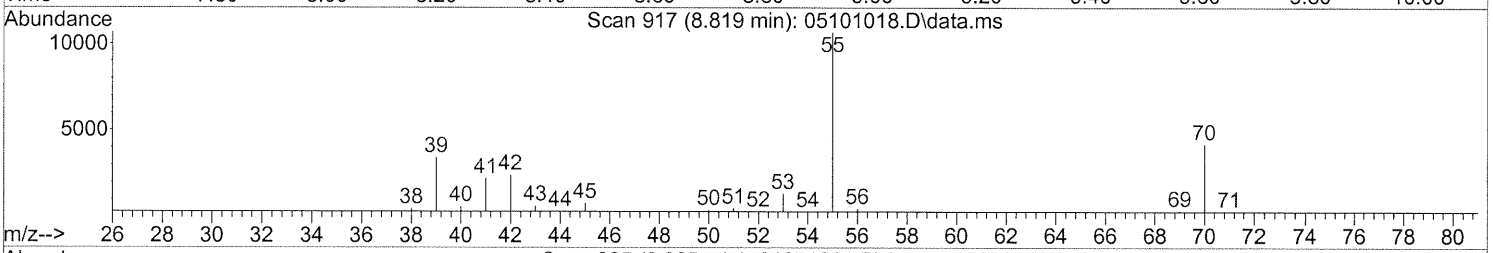
5/17/10

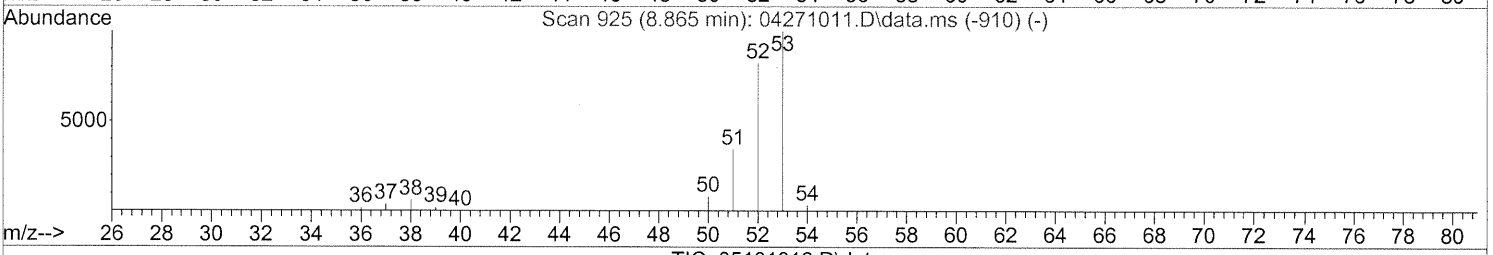
5/19/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 05101018.D\data.ms

(16) Acrylonitrile (T)

8.819min (-0.040) 0.21ng

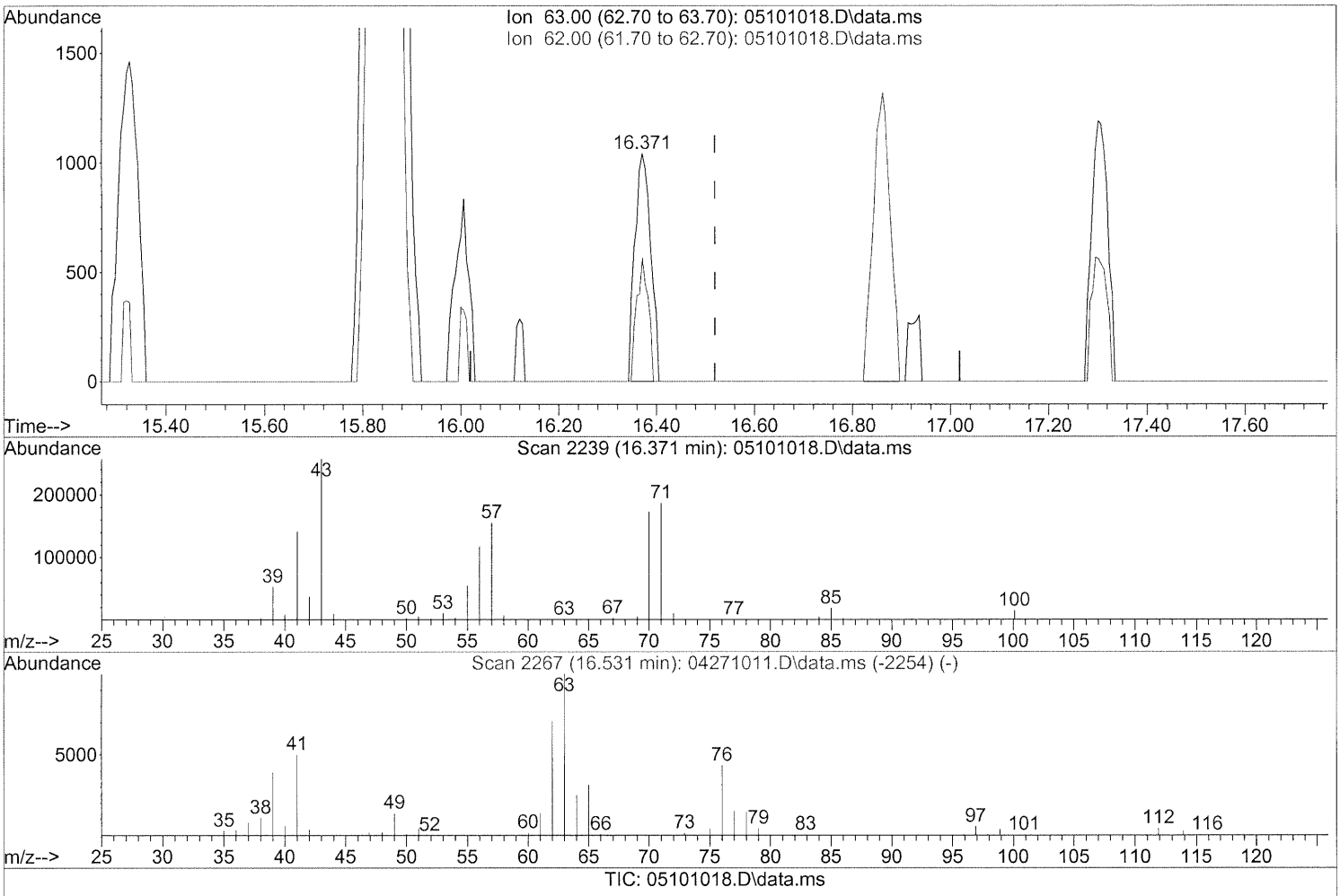
response 5526

Ion	Exp%	Act%
53.00	100	100
52.00	84.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Response via : Initial Calibration



TIC: 05101018.D\data.ms

(45) 1,2-Dichloropropane (T)

16.371min (-0.148) 0.10ng

response 2369

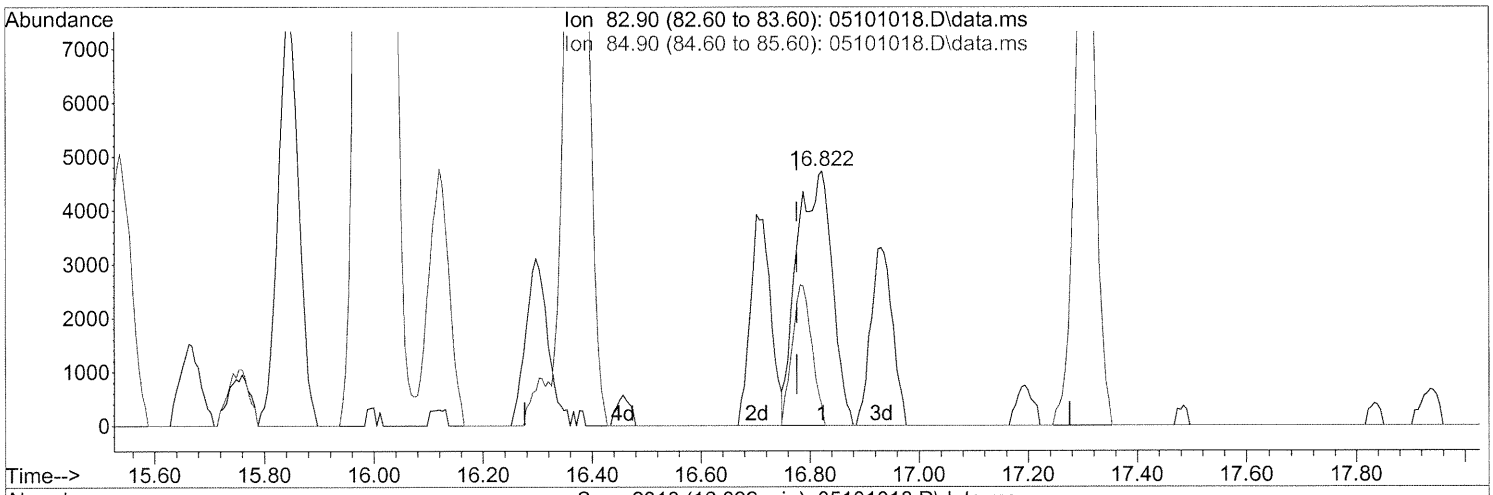
Ion	Exp%	Act%
63.00	100	100
62.00	72.00	39.30#
0.00	0.00	0.00
0.00	0.00	0.00

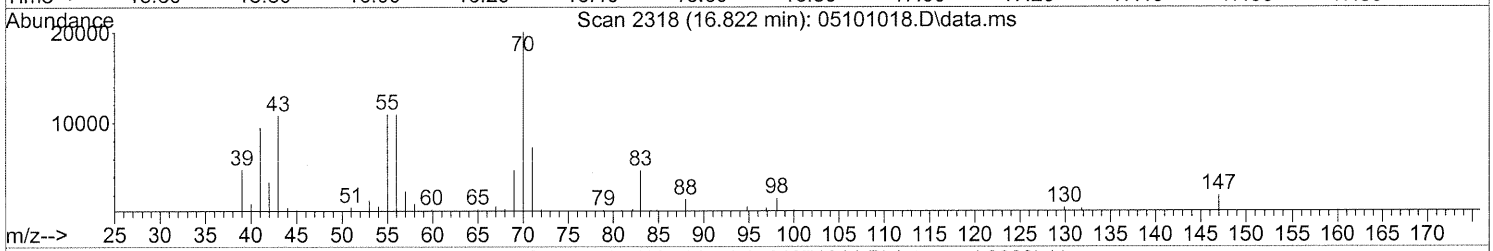
TP

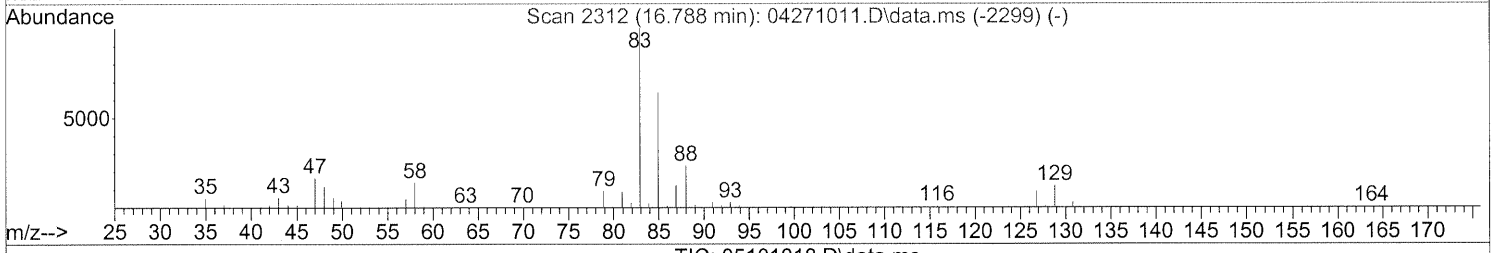
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 05101018.D\data.ms

(46) Bromodichloromethane (T)

16.822min (+0.046) 0.66ng

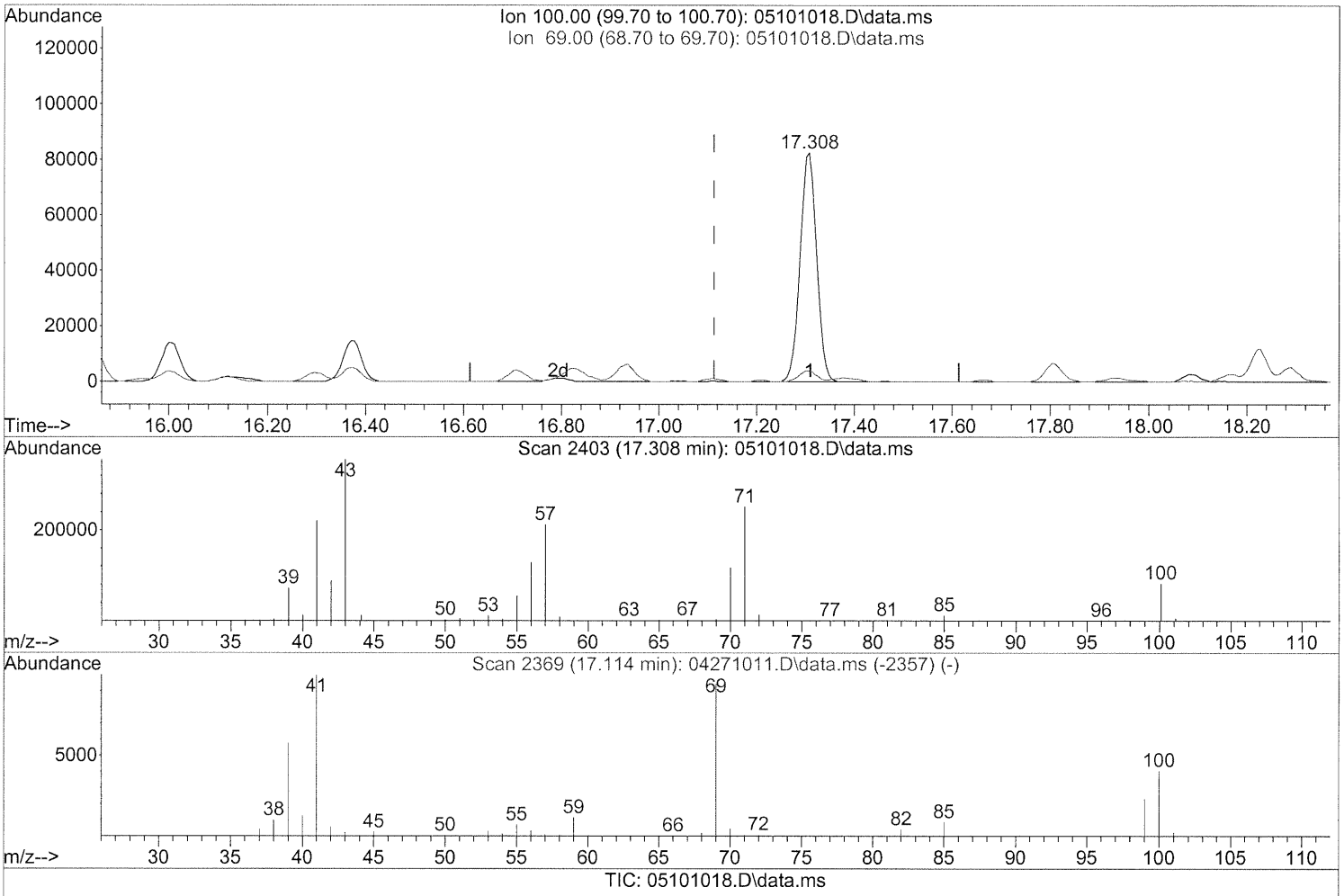
response 21184

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

FP

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101018.D\data.ms

(50) Methyl Methacrylate (T)

17.308min (+0.194) 17.11ng

response 193593

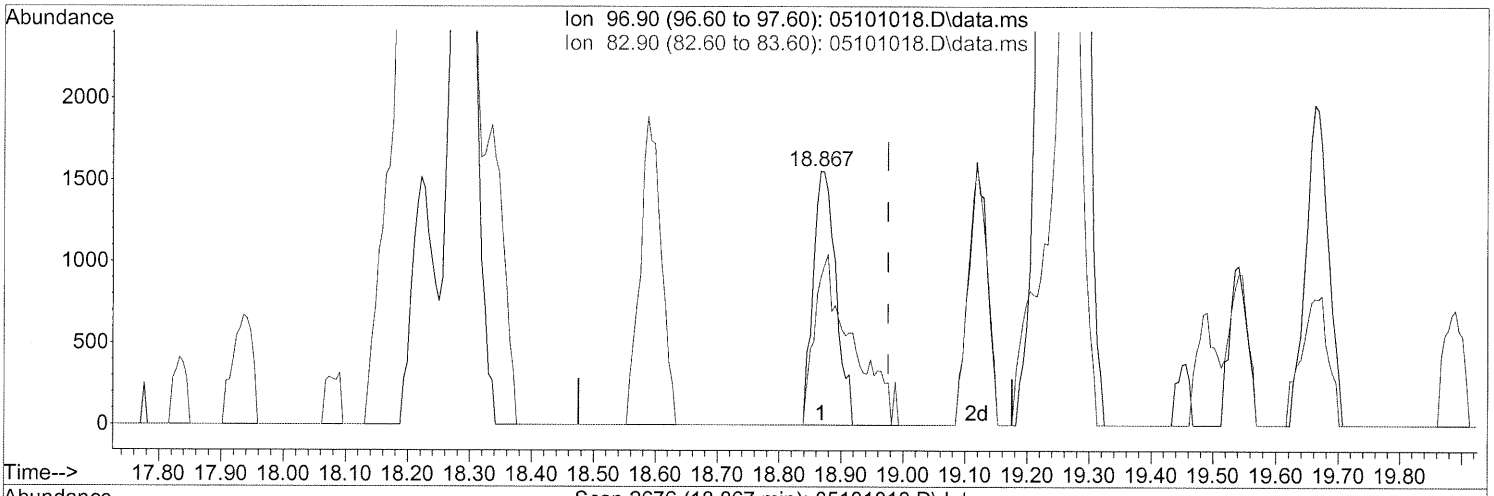
Ion	Exp%	Act%
100.00	100	100
69.00	311.50	4.96#
0.00	0.00	0.00
0.00	0.00	0.00

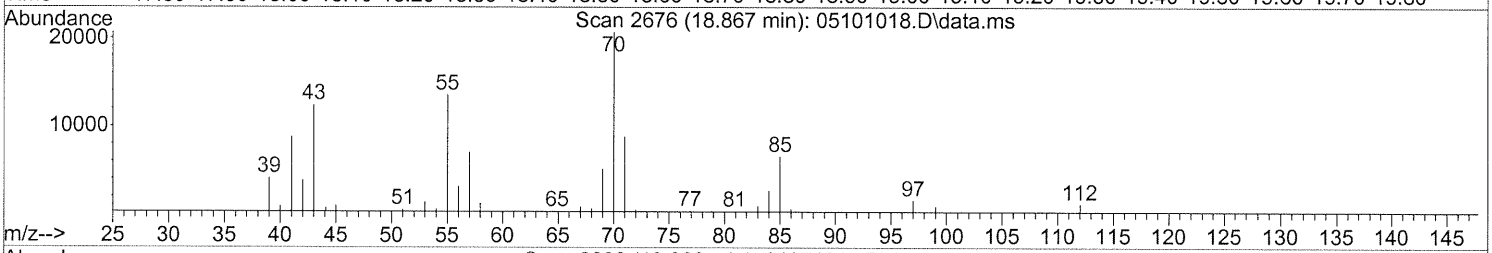
FP

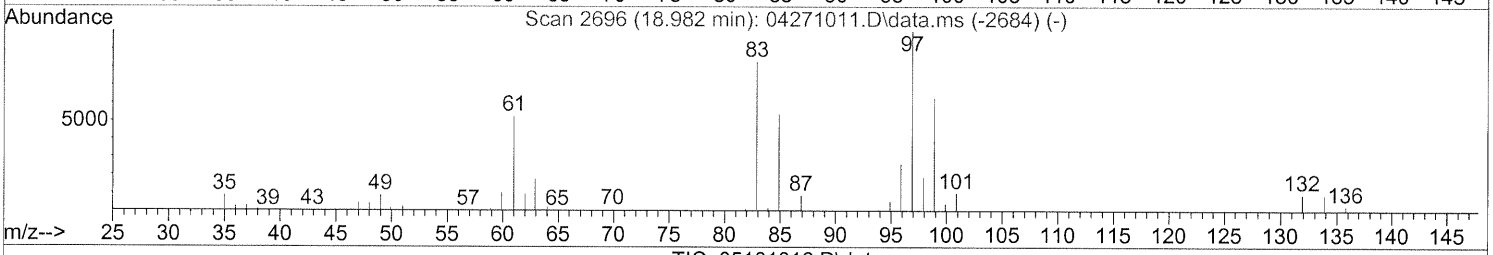
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 05101018.D\data.ms

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

18.867min (-0.109) 0.16ng

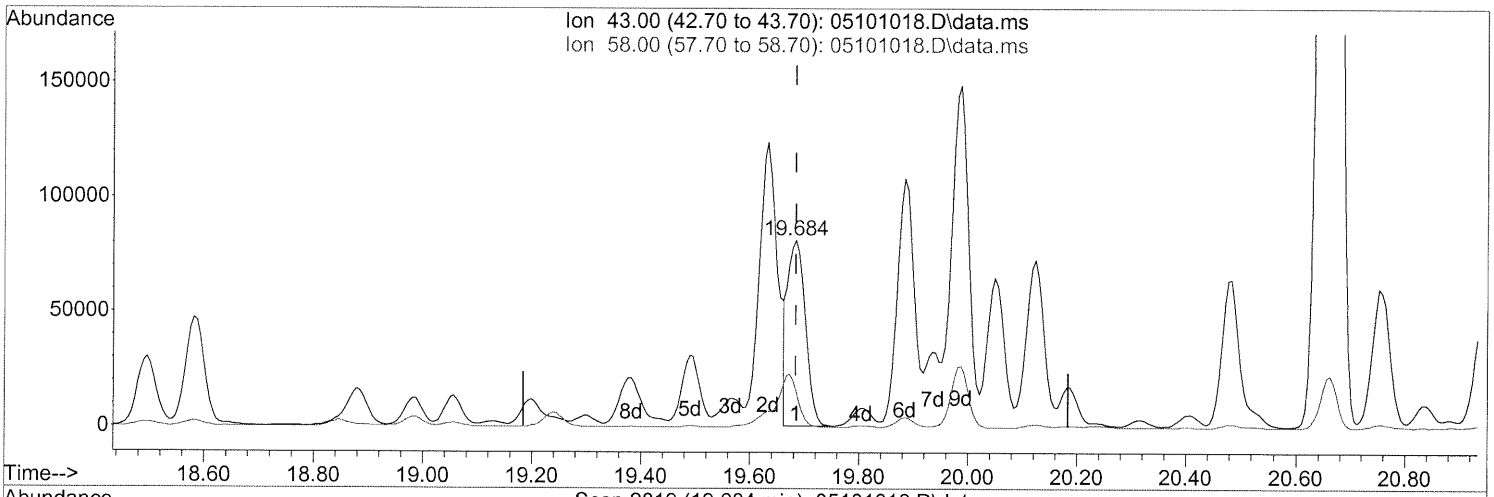
response 3967

Ion	Exp%	Act%
96.90	100	100
82.90	89.40	111.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
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TIC: 05101018.D\data.ms

(59) 2-Hexanone (T)

19.684min (+0.000) 3.14ng

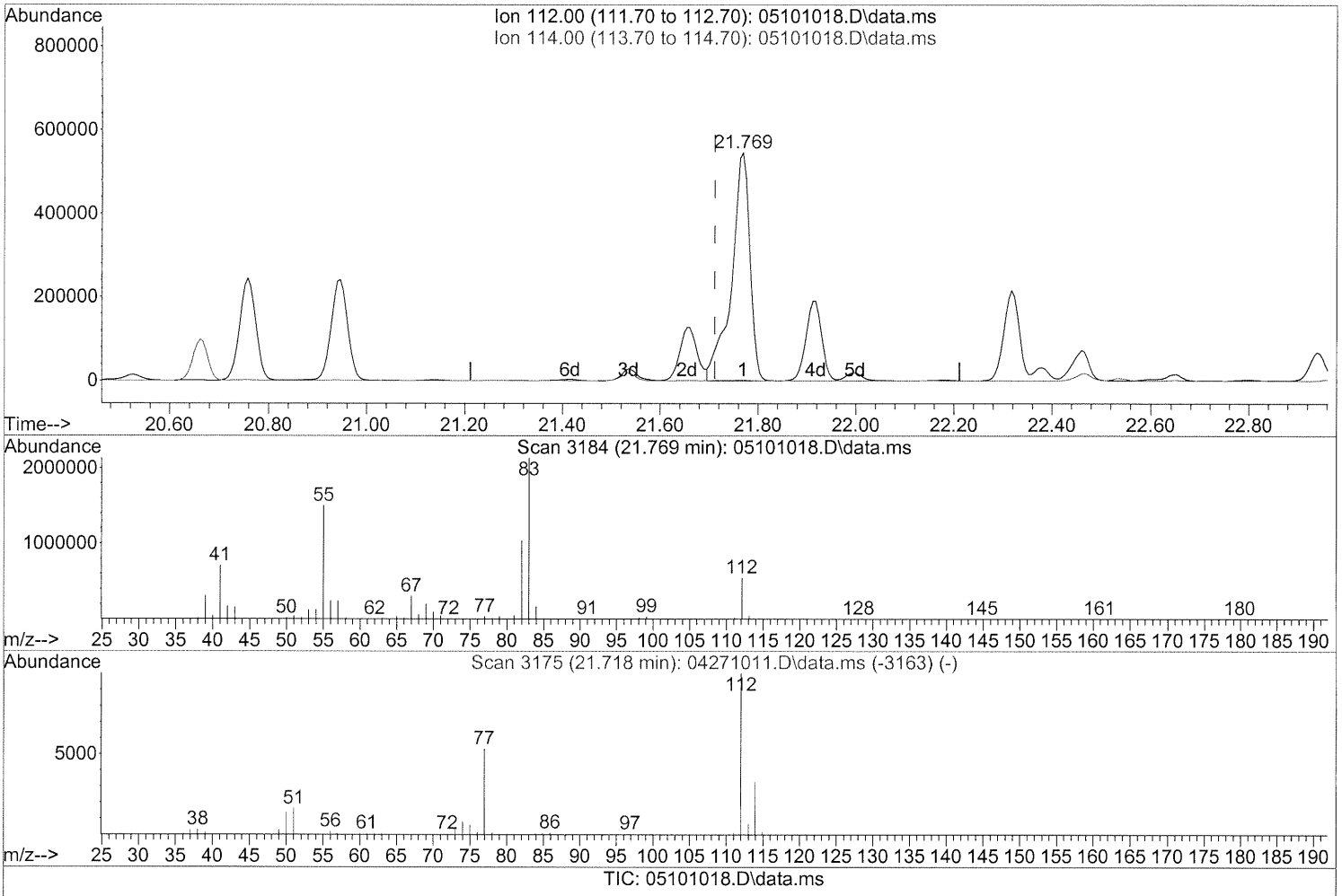
response 183223

Ion	Exp%	Act%
43.00	100	100
58.00	53.30	36.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 05101018.D\data.ms

(65) Chlorobenzene (T)

21.769min (+0.057) 15.45ng

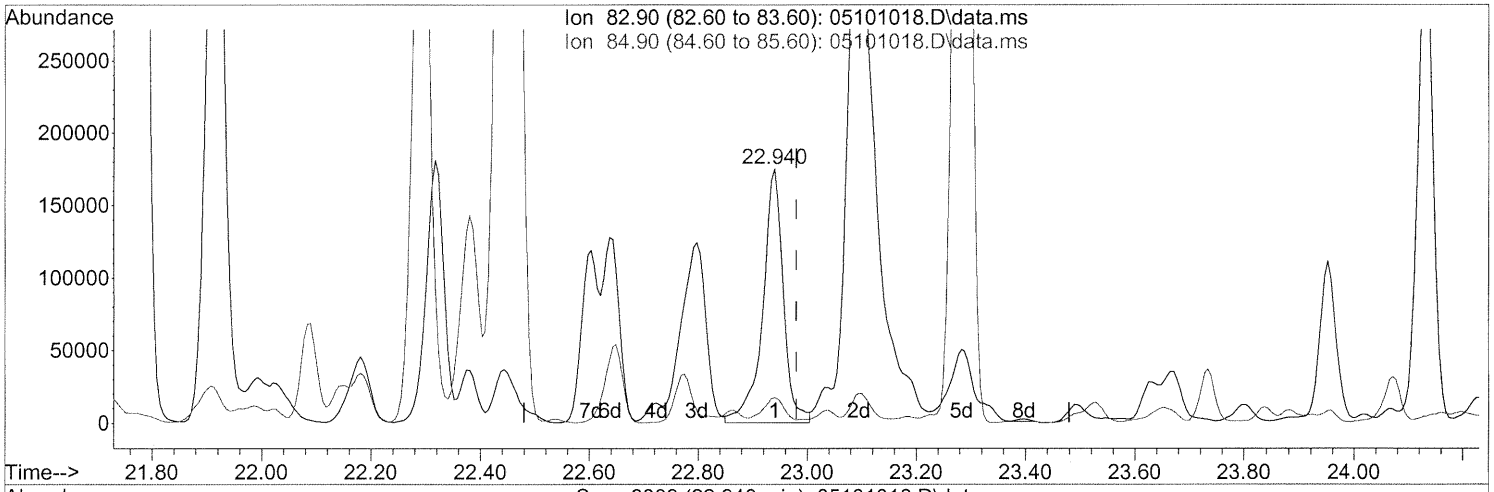
response 1417441

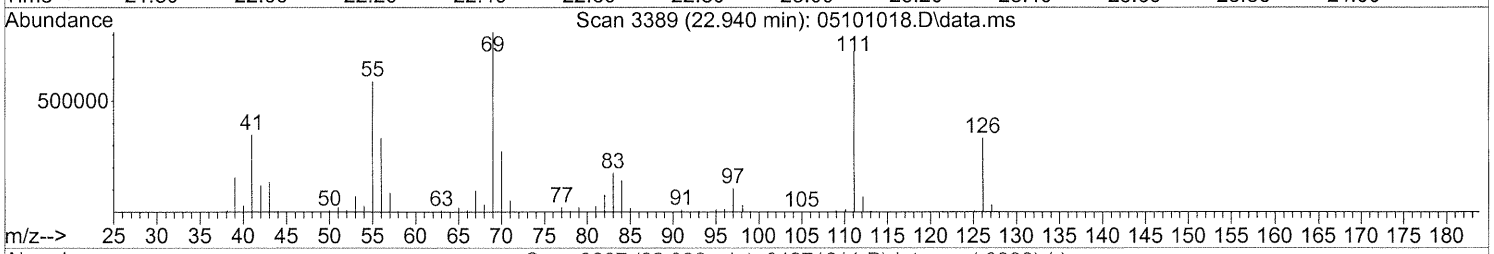
Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.30#
0.00	0.00	0.00
0.00	0.00	0.00

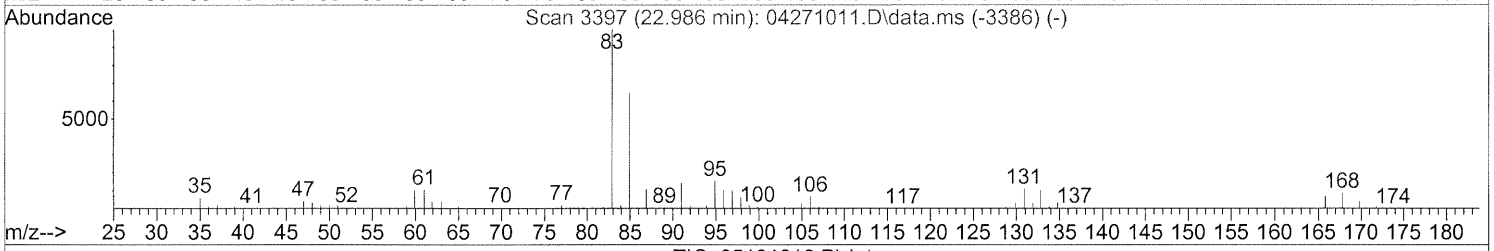
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
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ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
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TIC: 05101018.D\data.ms

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

22.940min (-0.040) 8.95ng

response 459214

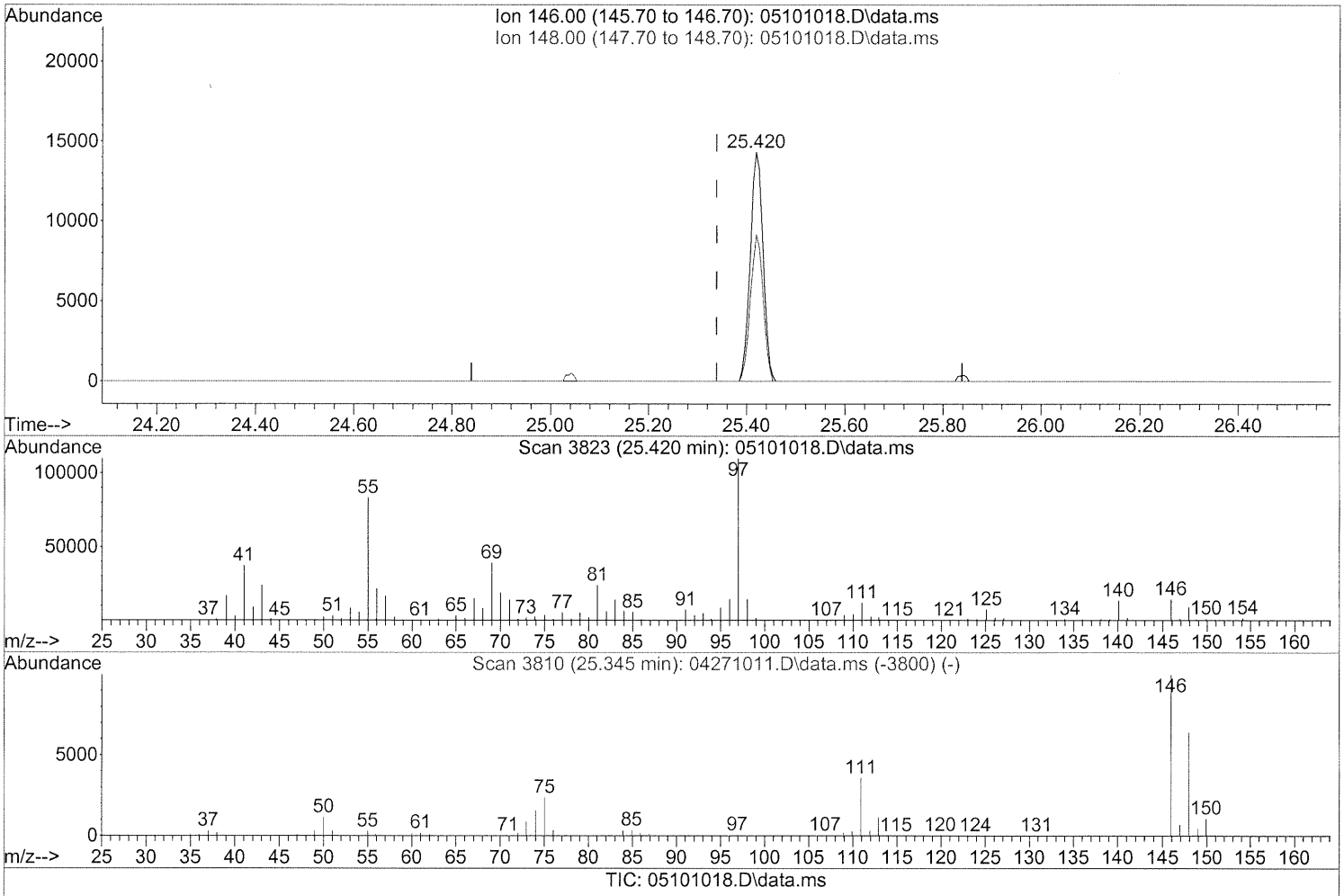
Ion	Exp%	Act%
82.90	100	100
84.90	63.60	10.90#
0.00	0.00	0.00
0.00	0.00	0.00

FP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
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Acq On : 11 May 2010 00:17
Operator : WA
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ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:56:01 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 05101018.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.420min (+0.080) 0.33ng

response 25875

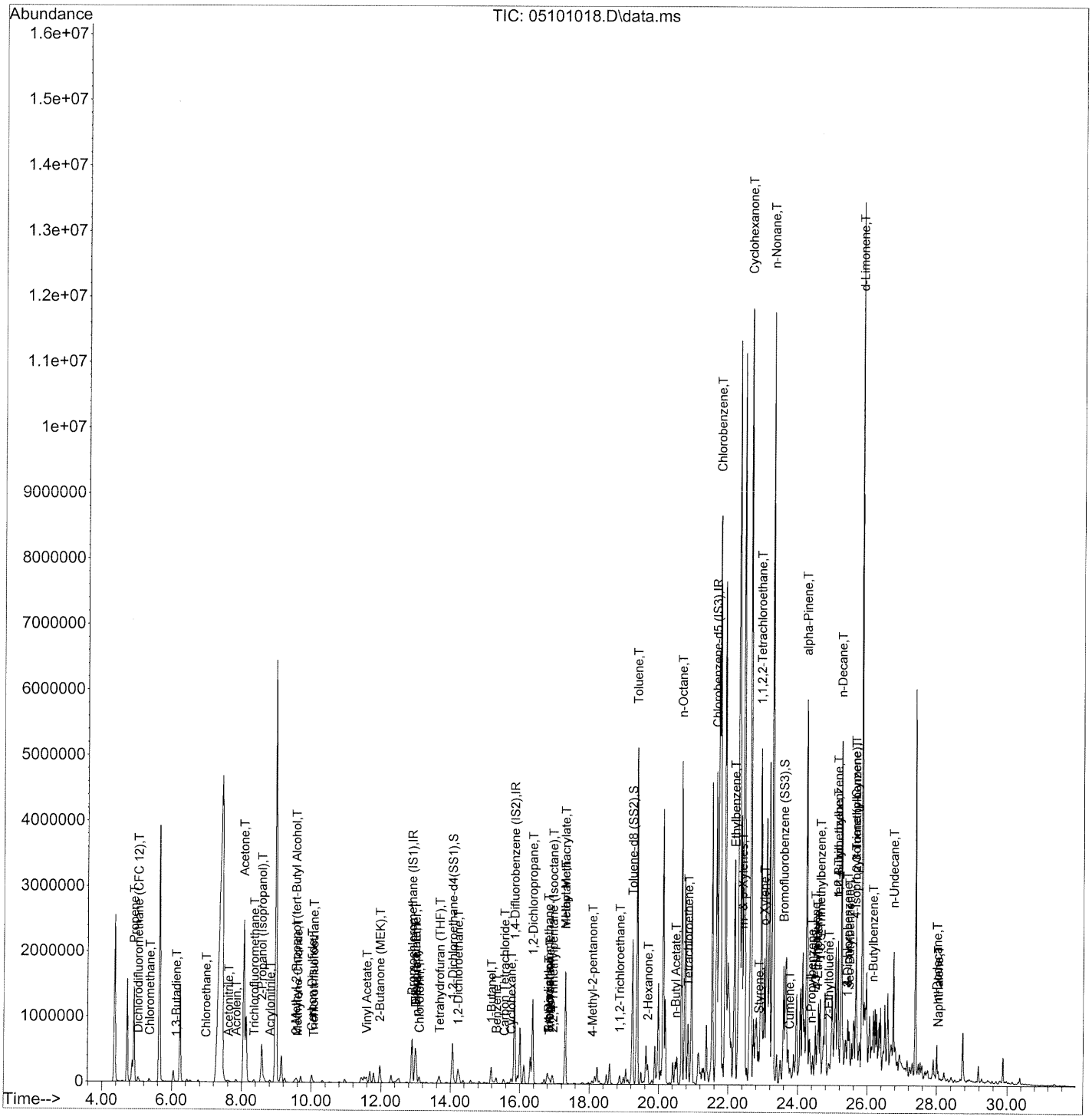
Ion	Exp%	Act%
146.00	100	100
148.00	63.70	63.29
0.00	0.00	0.00
0.00	0.00	0.00

fp

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:53:47 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
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Misc :
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	399481	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.85	114	1875266	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	970346	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	593022	24.596	ng		0.00
Spiked Amount 25.000			Recovery =	98.40%			
57) Toluene-d8 (SS2)	19.24	98	1994338	20.378	ng		0.00
Spiked Amount 25.000			Recovery =	81.52%			
73) Bromofluorobenzene (SS3)	23.59	174	717652	20.934	ng		0.00
Spiked Amount 25.000			Recovery =	83.72%			
Target Compounds							Qvalue
2) Propene	4.92	42	146787	6.486	ng	#	1
3) Dichlorodifluoromethan...	5.04	85	70441	1.324	ng		99
4) Chloromethane	5.37	50	13467	0.417	ng		98
5) 1,2-Dichloro-1,1,2,2-t...	5.64	135	1586	N.D.			
6) Vinyl Chloride	5.84	62	2907	N.D.			
7) 1,3-Butadiene	6.13	54	4274	0.162	ng		97
8) Bromomethane	6.63	94	526	N.D.			
9) Chloroethane	6.97	64	3095	0.168	ng		87
10) Ethanol	0.00	45	0	N.D.			
11) Acetonitrile	7.62	41	24606	0.737	ng		97
12) Acrolein	7.84	56	45652	3.358	ng		99
13) Acetone	8.06	58	1620581	92.000	ng		93
14) Trichlorofluoromethane	8.36	101	42555	0.879	ng		99
15) 2-Propanol (Isopropanol)	8.58	45	1182771	23.046	ng		100
16) Acrylonitrile	8.82	53	5526	0.206	ng	#	7
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.56	59	57814	0.954	ng	#	79
19) Methylene Chloride	9.60	84	8454	0.319	ng	#	75
20) 3-Chloro-1-propene (Al...	9.79	41	1015	N.D.			
21) Trichlorotrifluoroethane	10.06	151	7819	0.322	ng	#	76
22) Carbon Disulfide	10.01	76	252415	2.949	ng		99
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	11.50	73	1265	N.D.			
26) Vinyl Acetate	11.59	86	27213	4.439	ng	#	1
27) 2-Butanone (MEK)	11.97	72	131462	8.125	ng	#	66
28) cis-1,2-Dichloroethene	12.50	61	384	N.D.			
29) Diisopropyl Ether	13.00	87	3953	0.178	ng	#	1
30) Ethyl Acetate	12.99	61	120560	14.030	ng		92
31) n-Hexane	13.02	57	158165	3.862	ng	#	96

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:53:47 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.10	83	102072	2.345 ng		99
34) Tetrahydrofuran (THF)	13.69	72	20759	1.321 ng	#	57
35) Ethyl tert-Butyl Ether	13.82	87	92	N.D.		
36) 1,2-Dichloroethane	14.22	62	245481	7.515 ng		100
38) 1,1,1-Trichloroethane	14.62	97	720	N.D.		
39) Isopropyl Acetate	15.17	61	522	N.D.		
40) 1-Butanol	15.18	56	221701	9.803 ng	#	75
41) Benzene	15.33	78	118815	1.113 ng		99
42) Carbon Tetrachloride	15.55	117	10064	0.307 ng		99
43) Cyclohexane	15.75	84	47262	1.189 ng	#	79
44) tert-Amyl Methyl Ether	16.15	73	1463	N.D.		
45) 1,2-Dichloropropane	16.37	63	2369	0.102 ng	#	61
46) Bromodichloromethane	16.82	83	21184	0.661 ng	#	19
47) Trichloroethene	16.86	130	26001	0.873 ng		98
48) 1,4-Dioxane	16.83	88	3979	0.191 ng		97
49) 2,2,4-Trimethylpentane...	16.95	57	99875	1.018 ng	#	61
50) Methyl Methacrylate	17.31	100	193593	17.115 ng	#	1
51) n-Heptane	17.31	71	596942	23.504 ng		88
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	15610	0.772 ng	#	84
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.87	97	3967	0.161 ng	#	77
58) Toluene	19.38	91	5109240	37.016 ng		98
59) 2-Hexanone	19.68	43	183223	3.135 ng		76
60) Dibromochloromethane	19.91	129	1387	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	149196	2.237 ng		77
63) n-Octane	20.66	57	1071318	43.254 ng	#	80
64) Tetrachloroethene	20.85	166	170017	3.942 ng		100
65) Chlorobenzene	21.77	112	1417441	15.455 ng	#	43
66) Ethylbenzene	22.19	91	665961	4.402 ng		96
67) m- & p-Xylenes	22.40	91	707717	5.921 ng		93
68) Bromoform	22.51	173	1252	N.D.		
69) Styrene	22.88	104	76733	0.816 ng		96
70) o-Xylene	23.03	91	267381	2.194 ng		96
71) n-Nonane	23.28	43	4481152	84.292 ng		86
72) 1,1,2,2-Tetrachloroethane	22.94	83	459214	8.948 ng	#	32
74) Cumene	23.76	105	28154	0.169 ng		98
75) alpha-Pinene	24.25	93	2703334	34.985 ng		94
76) n-Propylbenzene	24.38	91	76586	0.396 ng	#	88
77) 3-Ethyltoluene	24.50	105	196139	1.286 ng		95
78) 4-Ethyltoluene	24.56	105	104780	0.682 ng		98
79) 1,3,5-Trimethylbenzene	24.64	105	105917	0.845 ng		94

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101018.D
Acq On : 11 May 2010 00:17
Operator : WA
Sample : P1001603-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 03:53:47 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

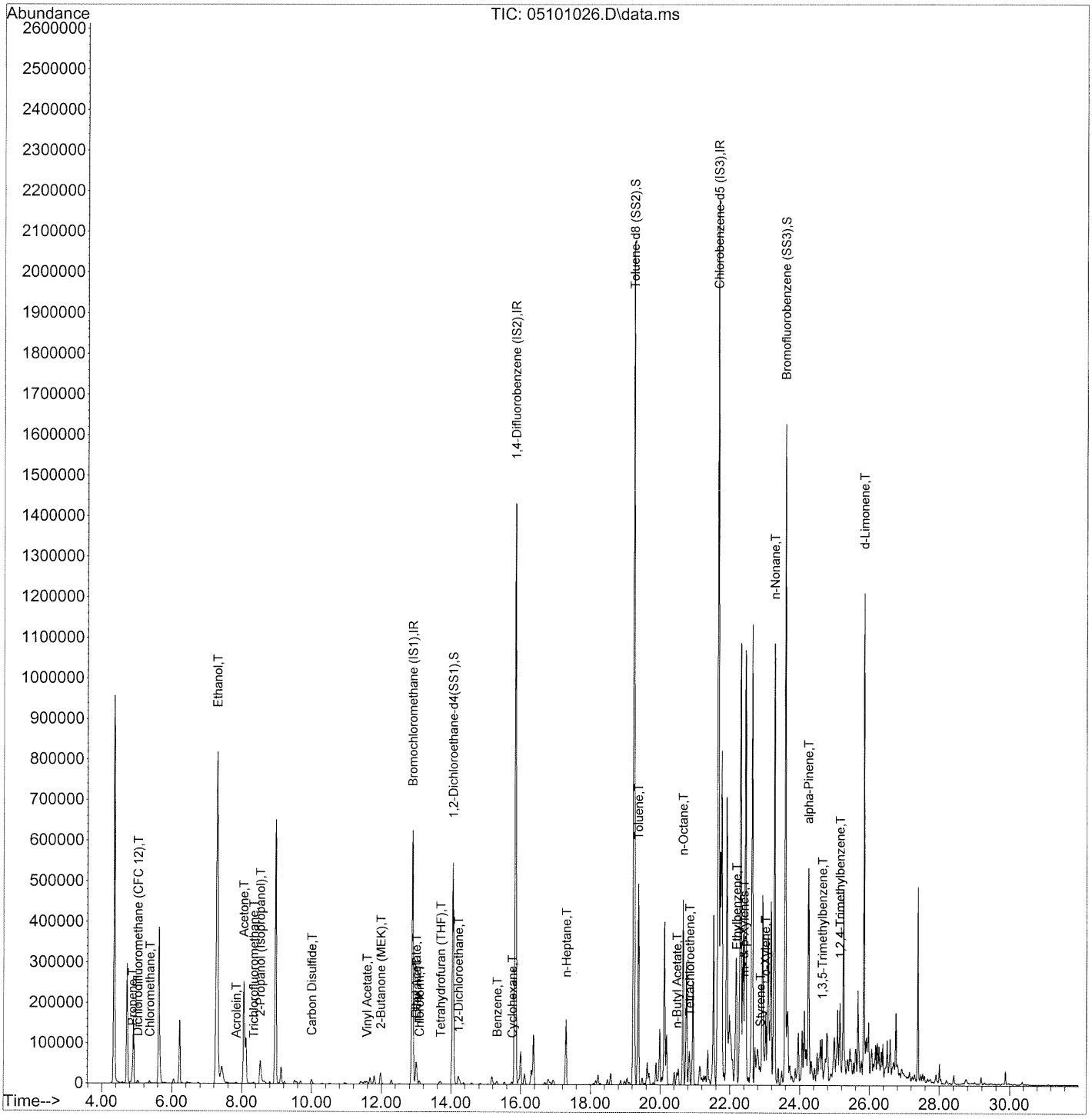
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	3096	N.D.		
81) 2-Ethyltoluene	24.88	105	113790	0.719 ng		95
82) 1,2,4-Trimethylbenzene	25.15	105	350189	2.701 ng		97
83) n-Decane	25.25	57	1758056	29.749 ng		87
84) Benzyl Chloride	25.36	91	3170	N.D.		
85) 1,3-Dichlorobenzene	25.42	146	25875	0.327 ng		99
86) 1,4-Dichlorobenzene	25.42	146	25875	0.316 ng		99
87) sec-Butylbenzene	25.48	105	26122	0.148 ng	#	79
88) 4-Isopropyltoluene (p-...	25.66	119	194400	1.161 ng		96
89) 1,2,3-Trimethylbenzene	25.67	105	144321	1.104 ng		91
90) 1,2-Dichlorobenzene	25.84	146	449	N.D.		
91) d-Limonene	25.84	68	3324008	73.820 ng		78
92) 1,2-Dibromo-3-Chloropr...	26.22	157	201	N.D.		
93) n-Undecane	26.76	57	593416	10.141 ng		79
94) 1,2,4-Trichlorobenzene	27.90	180	600	N.D.		
95) Naphthalene	28.05	128	76171	0.463 ng		94
96) n-Dodecane	28.01	57	177099	2.919 ng		90
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.64	55	1375717	34.745 ng	#	23
99) tert-Butylbenzene	25.15	119	45260	0.337 ng	#	58
100) n-Butylbenzene	26.16	91	96057	0.719 ng	#	53

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 15 17:39:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 15 17:39:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)	
1) Bromochloromethane (IS1)	12.88	130	369568	25.000	ng		0.00	
37) 1,4-Difluorobenzene (IS2)	15.84	114	1775920	25.000	ng		0.00	
56) Chlorobenzene-d5 (IS3)	21.65	82	764458	25.000	ng		0.00	
System Monitoring Compounds								
33) 1,2-Dichloroethane-d4(...	14.05	65	553885	24.832	ng		0.00	
Spiked Amount 25.000			Recovery =	99.32%				✓
57) Toluene-d8 (SS2)	19.24	98	1875403	24.323	ng		0.00	
Spiked Amount 25.000			Recovery =	97.28%				✓
73) Bromofluorobenzene (SS3)	23.58	174	644258	23.855	ng		0.00	
Spiked Amount 25.000			Recovery =	95.40%				✓
Target Compounds							Qvalue	
2) Propene	4.87	42	9154m	0.437	ng			
3) Dichlorodifluoromethan...	5.03	85	6865	0.139	ng		94	
4) Chloromethane	5.37	50	3865	0.129	ng		94	
10) Ethanol	7.29	45	1713129m	134.334	ng			
12) Acrolein	7.83	56	3937	0.313	ng		98	
13) Acetone	8.05	58	154773	9.498	ng		96	
14) Trichlorofluoromethane	8.34	101	4137	0.092	ng		96	
15) 2-Propanol (Isopropanol)	8.53	45	132513	2.791	ng		99	
22) Carbon Disulfide	10.00	76	24123	0.305	ng		96	
26) Vinyl Acetate	11.58	86	2250	0.397	ng	#	1	
27) 2-Butanone (MEK)	11.98	72	14673	0.980	ng	#	63	
30) Ethyl Acetate	12.99	61	10462	1.316	ng		91	
31) n-Hexane	13.01	57	14930	0.394	ng	#	97	
32) Chloroform	13.09	83	9339	0.232	ng		96	
34) Tetrahydrofuran (THF)	13.70	72	1953	0.134	ng	#	51	
36) 1,2-Dichloroethane	14.21	62	22996	0.761	ng		100	
41) Benzene	15.32	78	11949	0.118	ng		97	
43) Cyclohexane	15.75	84	4220	0.112	ng	#	80	
51) n-Heptane	17.30	71	54934	2.284	ng		88	
58) Toluene	19.37	91	496419	4.565	ng		99	
62) n-Butyl Acetate	20.48	43	13727	0.261	ng	#	64	
63) n-Octane	20.65	57	98487	5.047	ng	#	80	
64) Tetrachloroethene	20.85	166	16185	0.476	ng		99	
66) Ethylbenzene	22.19	91	61191	0.513	ng		96	
67) m- & p-Xylenes	22.40	91	63914	0.679	ng		92	
69) Styrene	22.87	104	6687	0.090	ng		93	
70) o-Xylene	23.01	91	25172	0.262	ng		98	
71) n-Nonane	23.27	43	396502	9.467	ng		86	
75) alpha-Pinene	24.24	93	248501	4.082	ng		93	
79) 1,3,5-Trimethylbenzene	24.64	105	9823	0.099	ng		98	

AA 5/17/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 15 17:39:30 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

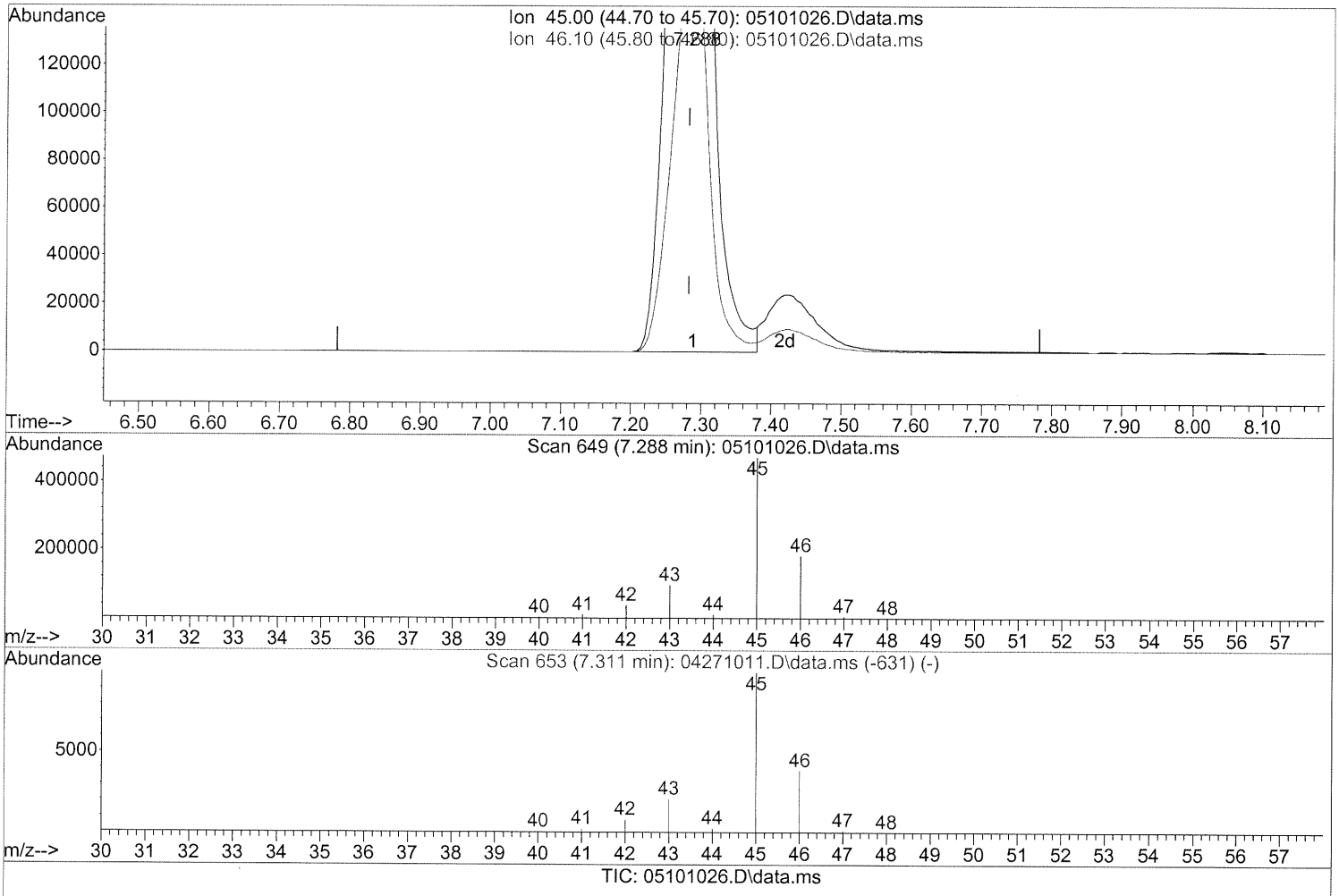
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) 1,2,4-Trimethylbenzene	25.15	105	31050	0.304	ng	96
91) d-Limonene	25.84	68	288264	8.126	ng	76

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101026.D\data.ms

(10) Ethanol (T)

7.288min (+0.006) 124.95ng

response 1593415

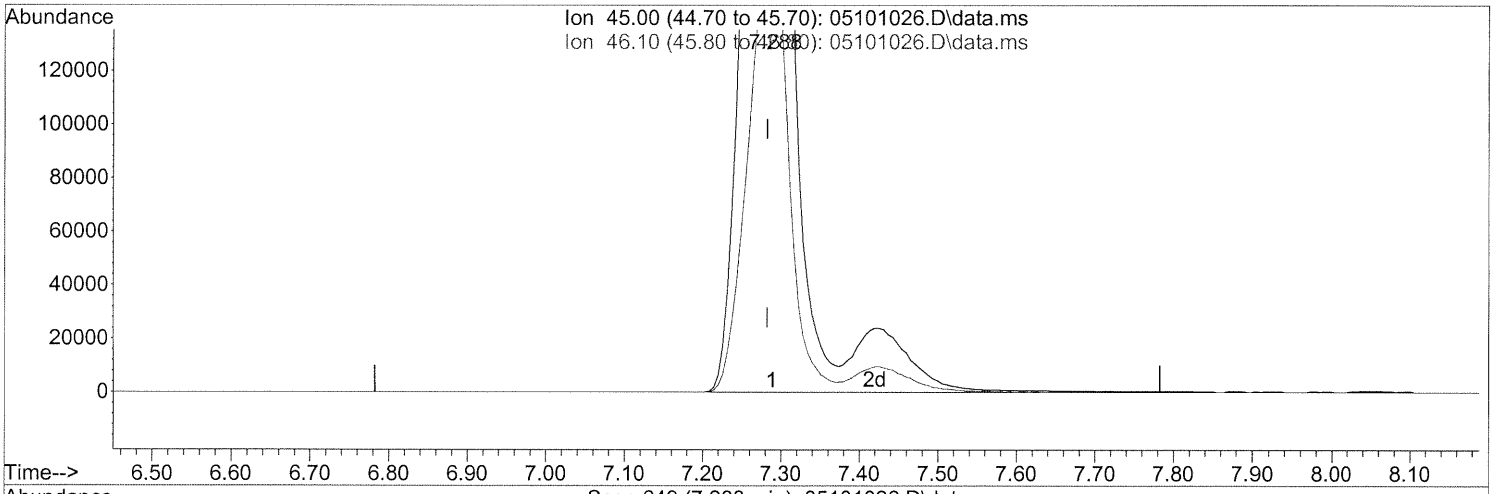
SP

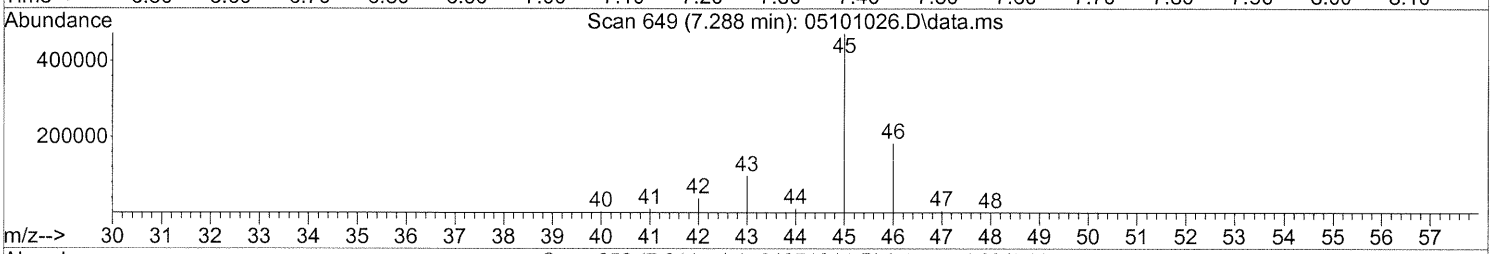
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.54
0.00	0.00	0.00
0.00	0.00	0.00

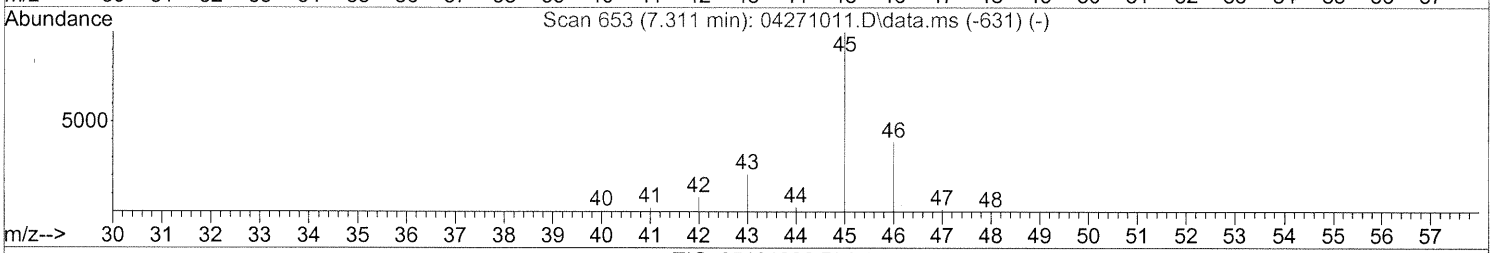
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101026.D\data.ms

(10) Ethanol (T)

7.288min (+0.006) 134.33ng m

response 1713129

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	35.85
0.00	0.00	0.00
0.00	0.00	0.00

SP→IC

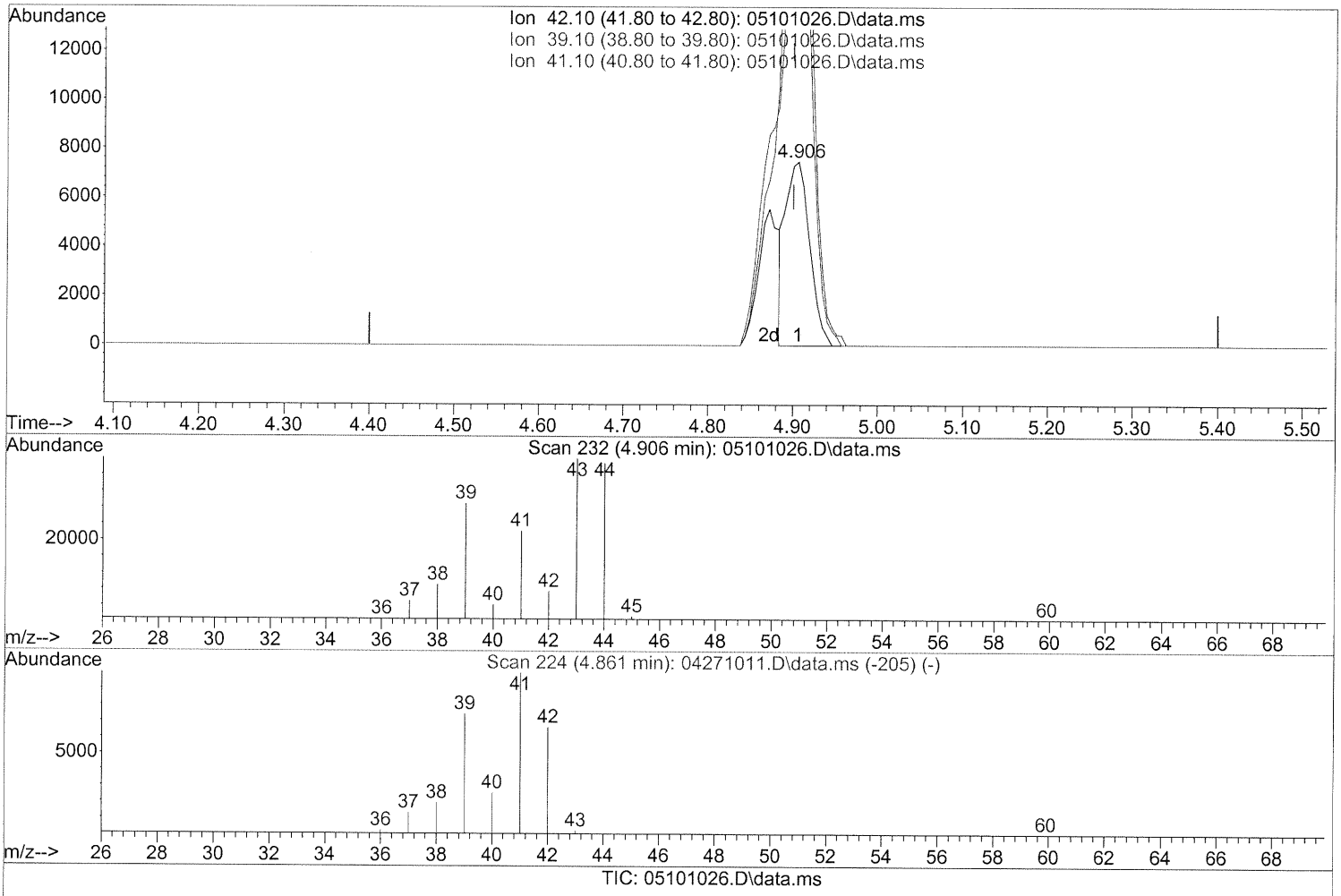
5/17/10

5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101026.D\data.ms

(2) Propene (T)

4.906min (+0.006) 0.71ng

response 14807

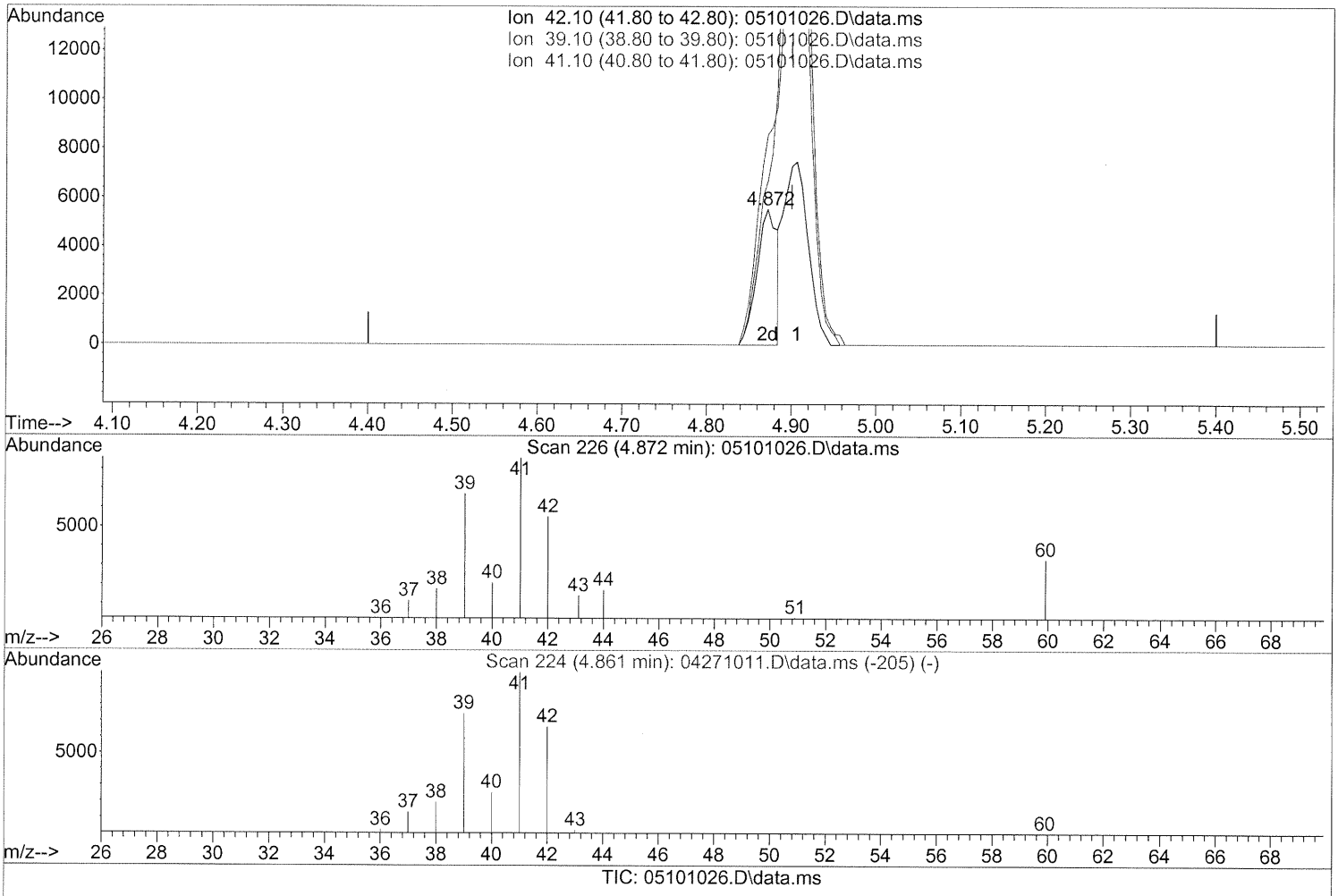
MP

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	463.06#
41.10	153.90	391.99#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101026.D\data.ms

(2) Propene (T)

4.872min (-0.028) 0.44ng m

response 9154

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	749.02#
41.10	153.90	634.06#
0.00	0.00	0.00

MP—7 IC

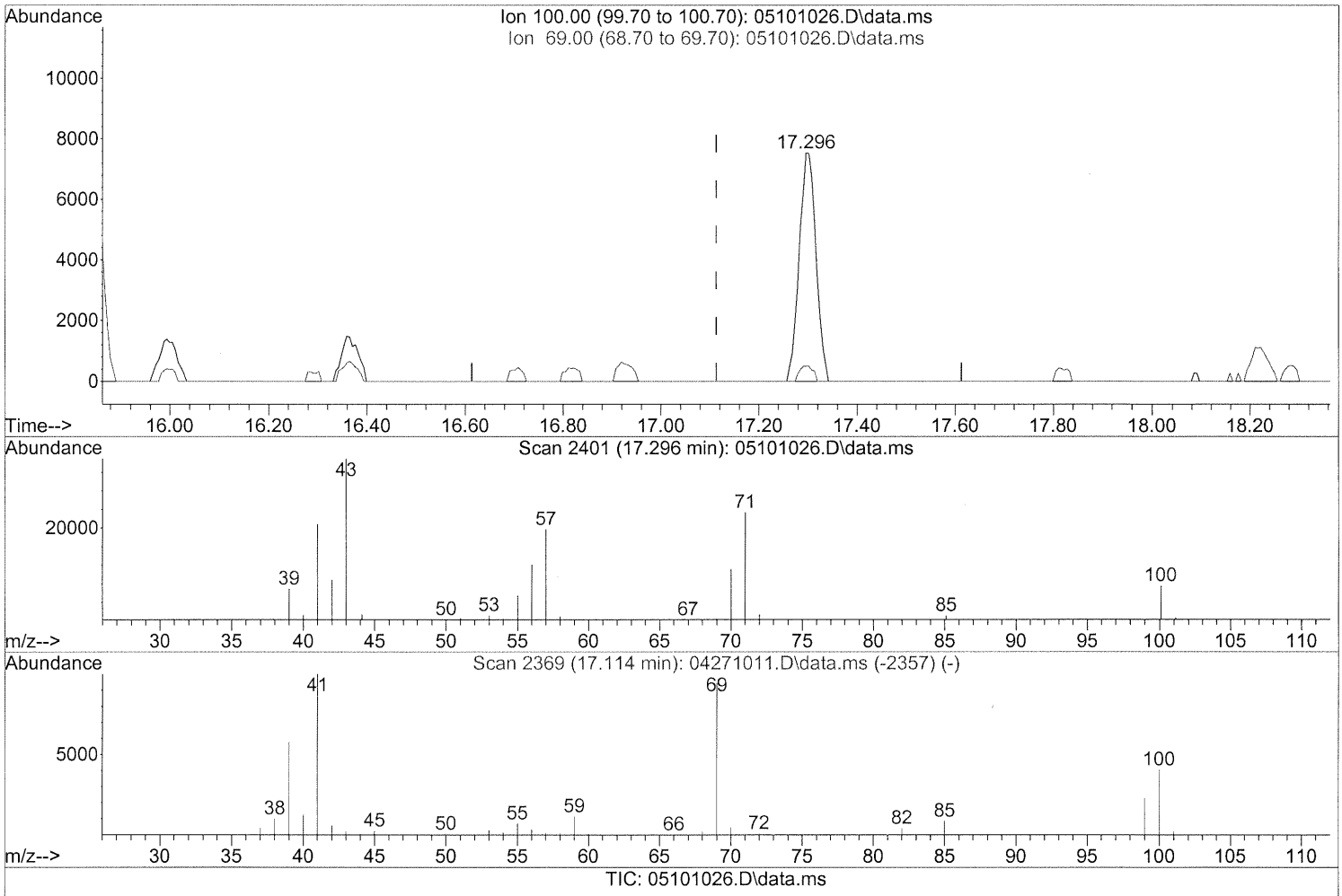
5/17/10

5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101026.D\data.ms

(50) Methyl Methacrylate (T)

17.296min (+0.183) 1.67ng

response 17864

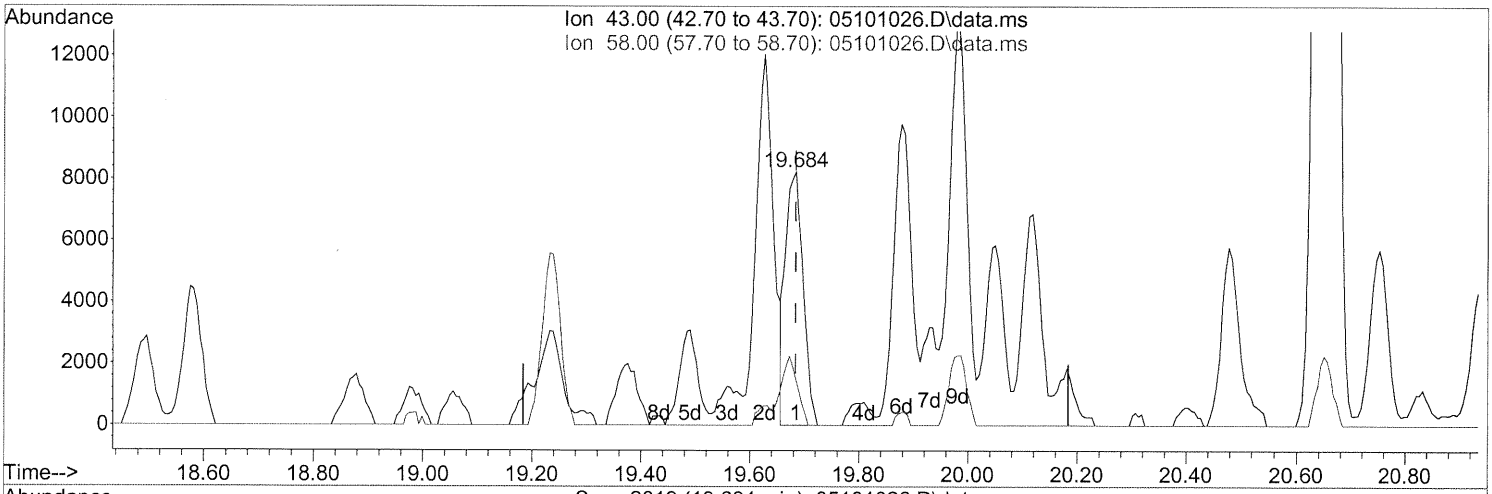
Ion	Exp%	Act%
100.00	100	100
69.00	311.50	5.36#
0.00	0.00	0.00
0.00	0.00	0.00

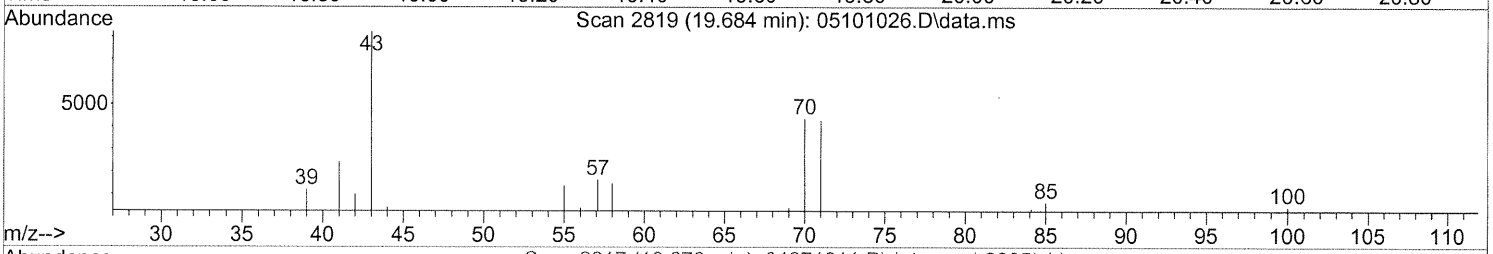
FP

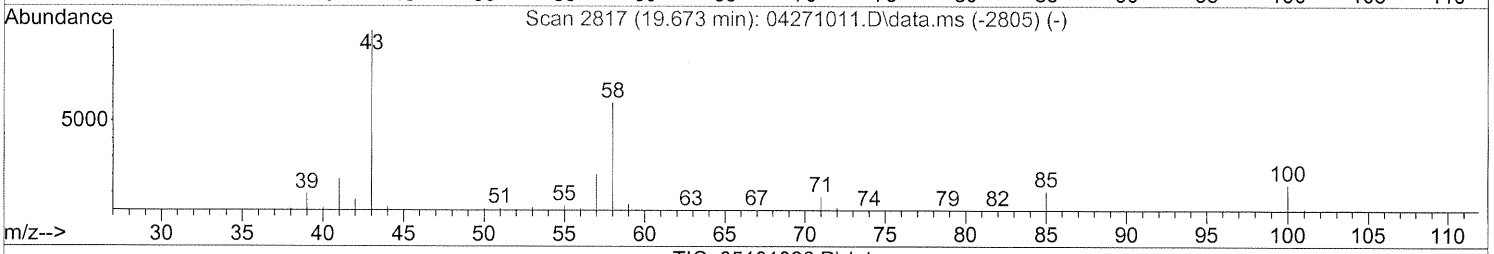
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101026.D\data.ms

(59) 2-Hexanone (T)

19.684min (+0.000) 0.40ng

response 18575

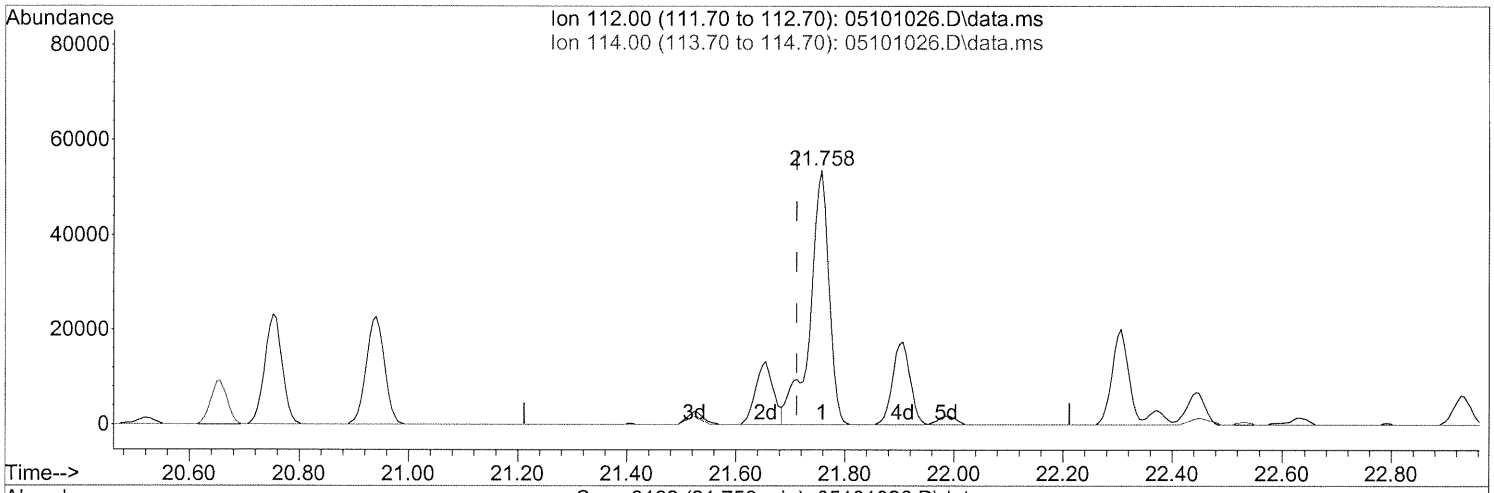
Ion	Exp%	Act%
43.00	100	100
58.00	53.30	25.23#
0.00	0.00	0.00
0.00	0.00	0.00

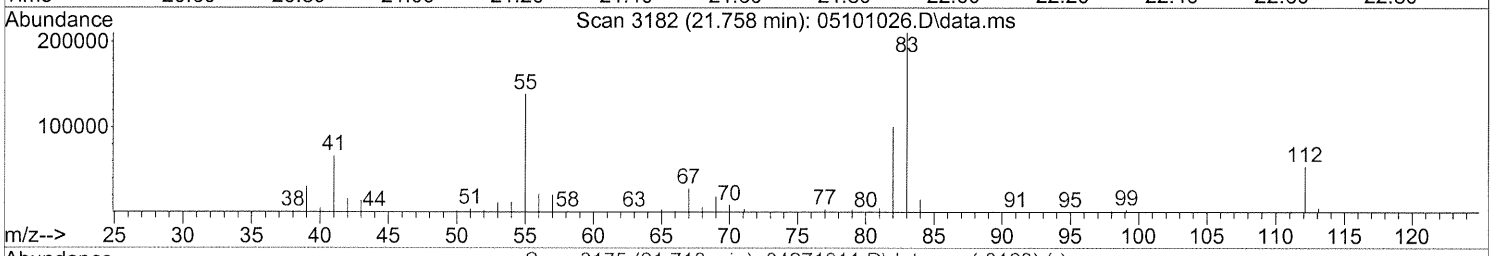
FP

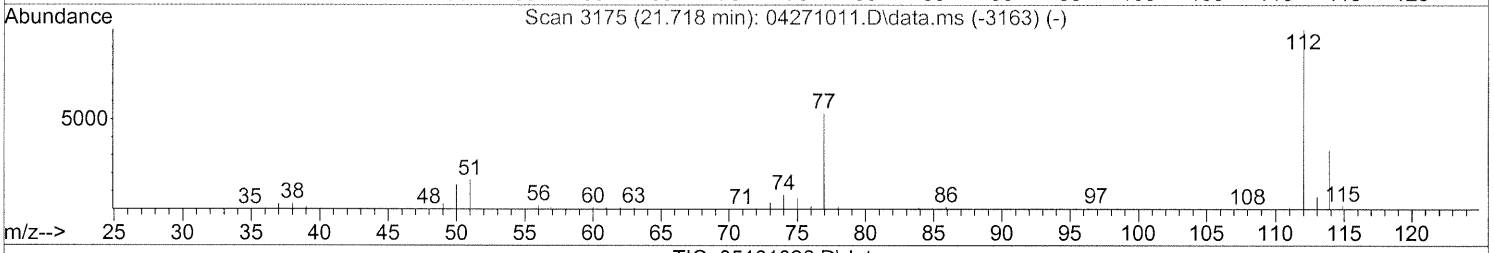
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101026.D\data.ms

(65) Chlorobenzene (T)

21.758min (+0.046) 1.81ng

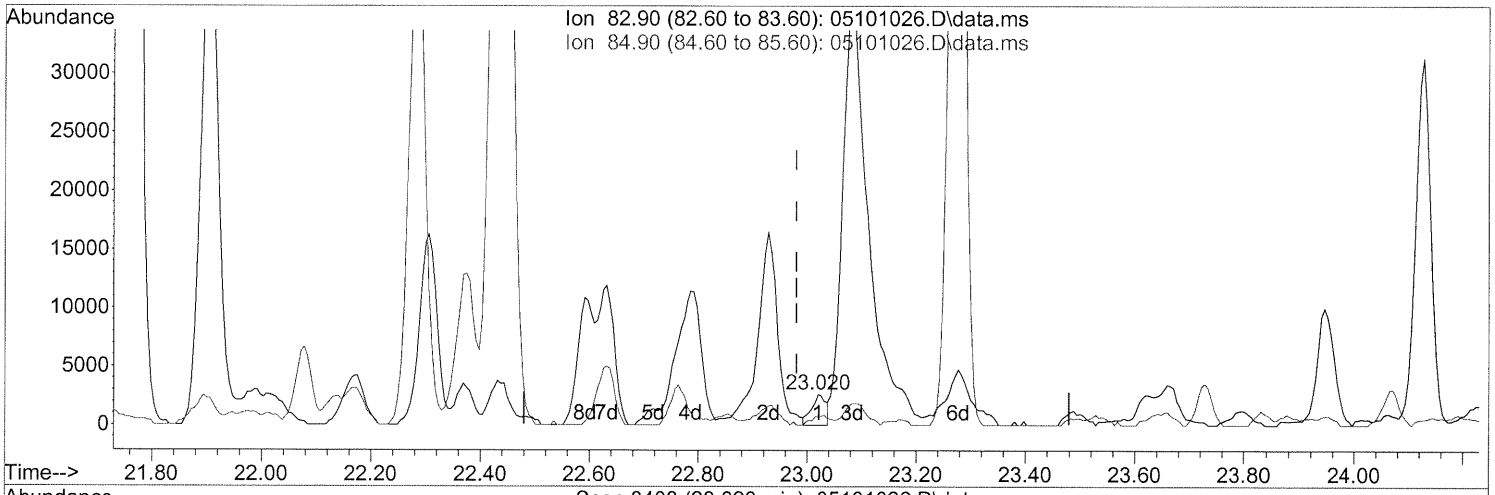
response 130898

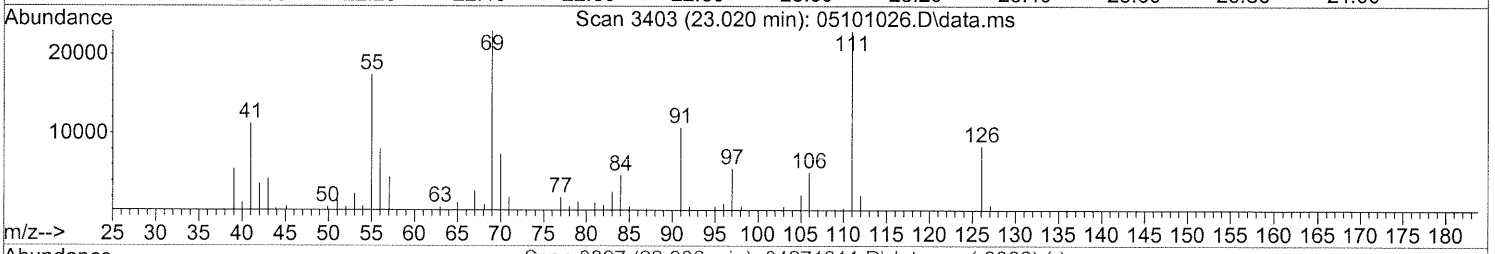
Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

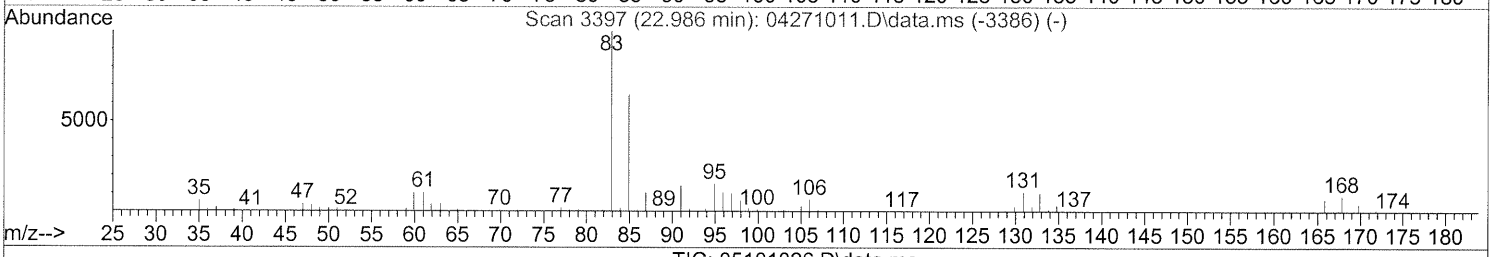
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101026.D\data.ms

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

23.020min (+0.040) 0.12ng

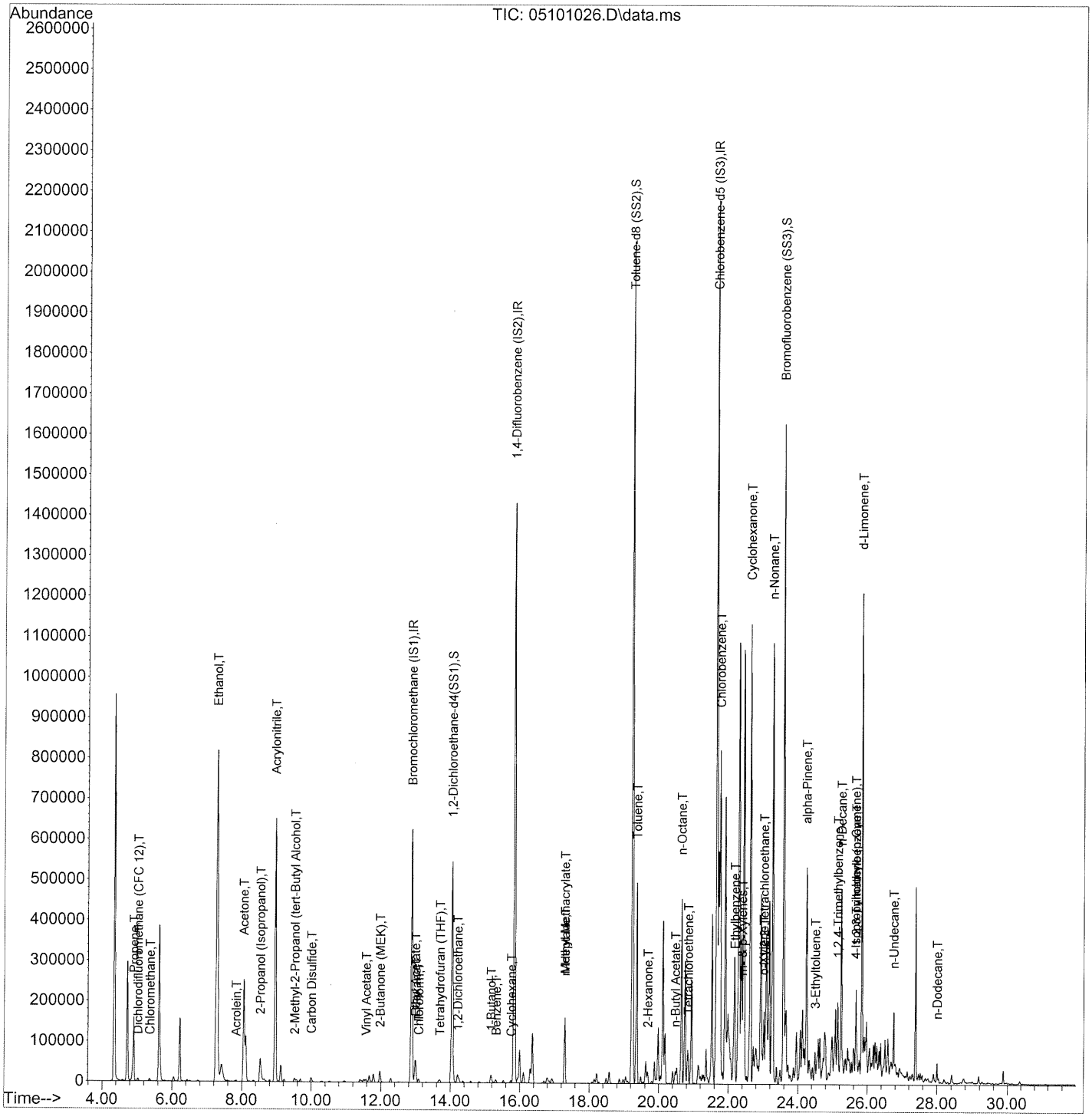
response 4868

Ion	Exp%	Act%
82.90	100	100
84.90	63.60	38.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	369568	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1775920	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	764458	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	553885	24.832	ng		0.00
Spiked Amount 25.000			Recovery =	99.32%			
57) Toluene-d8 (SS2)	19.24	98	1875403	24.323	ng		0.00
Spiked Amount 25.000			Recovery =	97.28%			
73) Bromofluorobenzene (SS3)	23.58	174	644258	23.855	ng		0.00
Spiked Amount 25.000			Recovery =	95.40%			
Target Compounds							Qvalue
2) Propene	4.91	42	14807	0.707	ng	#	1
3) Dichlorodifluoromethan...	5.03	85	6865	0.139	ng		94
4) Chloromethane	5.37	50	3865	0.129	ng		94
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.22	54	92	N.D.			
8) Bromomethane	0.00	94	0	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	7.29	45	1593415	124.947	ng		100
11) Acetonitrile	7.60	41	2289	N.D.			
12) Acrolein	7.83	56	3937	0.313	ng		98
13) Acetone	8.05	58	154773	9.498	ng		96
14) Trichlorofluoromethane	8.34	101	4137	N.D.			
15) 2-Propanol (Isopropanol)	8.53	45	132513	2.791	ng		99
16) Acrylonitrile	8.96	53	10289	0.414	ng	#	30
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.52	59	17038	0.304	ng		91
19) Methylene Chloride	9.59	84	1243	N.D.			
20) 3-Chloro-1-propene (Al...	9.69	41	1721	N.D.			
21) Trichlorotrifluoroethane	10.05	151	422	N.D.			
22) Carbon Disulfide	10.00	76	24123	0.305	ng		96
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	11.58	86	2250	0.397	ng	#	1
27) 2-Butanone (MEK)	11.98	72	14673	0.980	ng	#	63
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.09	87	548	N.D.			
30) Ethyl Acetate	12.99	61	10462	1.316	ng		91
31) n-Hexane	13.01	57	14930	0.394	ng	#	97

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.09	83	9339	0.232 ng		96
34) Tetrahydrofuran (THF)	13.70	72	1953	0.134 ng	#	51
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.21	62	22996	0.761 ng		100
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.17	56	19389	0.905 ng	#	76
41) Benzene	15.32	78	11949	0.118 ng		97
42) Carbon Tetrachloride	15.54	117	656	N.D.		
43) Cyclohexane	15.75	84	4220	0.112 ng	#	80
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.81	83	1741	N.D.		
47) Trichloroethene	16.86	130	2401	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	9140	N.D.		
50) Methyl Methacrylate	17.30	100	17864	1.668 ng	#	1
51) n-Heptane	17.30	71	54934	2.284 ng		88
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.09	58	1160	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	496419	4.565 ng		99
59) 2-Hexanone	19.68	43	18575	0.403 ng	#	61
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	13727	0.261 ng	#	64
63) n-Octane	20.65	57	98487	5.047 ng	#	80
64) Tetrachloroethene	20.85	166	16185	0.476 ng		99
65) Chlorobenzene	21.76	112	130898	1.812 ng	#	43
66) Ethylbenzene	22.19	91	61191	0.513 ng		96
67) m- & p-Xylenes	22.40	91	63914	0.679 ng		92
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.87	104	6687	N.D.		
70) o-Xylene	23.01	91	25172	0.262 ng		98
71) n-Nonane	23.27	43	396502	9.467 ng		86
72) 1,1,2,2-Tetrachloroethane	23.02	83	4868	0.120 ng	#	68
74) Cumene	23.76	105	2546	N.D.		
75) alpha-Pinene	24.24	93	248501	4.082 ng		93
76) n-Propylbenzene	24.37	91	7599	N.D.		
77) 3-Ethyltoluene	24.50	105	18336	0.153 ng		98
78) 4-Ethyltoluene	24.55	105	9372	N.D.		
79) 1,3,5-Trimethylbenzene	24.64	105	9823	N.D.		

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101026.D
Acq On : 11 May 2010 5:52
Operator : WA
Sample : P1001603-007 Dil (100mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 06:28:24 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	25.04	118	92	N.D.			
81) 2-Ethyltoluene	24.88	105	10420	N.D.			
82) 1,2,4-Trimethylbenzene	25.15	105	31050	0.304	ng		96
83) n-Decane	25.25	57	156625	3.364	ng		86
84) Benzyl Chloride	25.29	91	86	N.D.			
85) 1,3-Dichlorobenzene	25.42	146	2629	N.D.			
86) 1,4-Dichlorobenzene	25.42	146	2629	N.D.			
87) sec-Butylbenzene	25.47	105	2272	N.D.			
88) 4-Isopropyltoluene (p-...	25.66	119	17433	0.132	ng		97
89) 1,2,3-Trimethylbenzene	25.67	105	12798	0.124	ng		87
90) 1,2-Dichlorobenzene	25.42	146	2629	N.D.			
91) d-Limonene	25.84	68	288264	8.126	ng		76
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	26.76	57	52178	1.132	ng		78
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.			
95) Naphthalene	28.05	128	7161	N.D.			
96) n-Dodecane	28.01	57	15169	0.317	ng	#	74
97) Hexachlorobutadiene	0.00	225	0	N.D.			
98) Cyclohexanone	22.63	55	125893	4.036	ng	#	25
99) tert-Butylbenzene	25.58	119	3449	N.D.			
100) n-Butylbenzene	26.16	91	9706	N.D.			

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110307** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P1001603-008

Test Code: EPA TO-15 Date Collected: 5/6/10
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/7/10
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01019

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**1.3**	0.84	**0.78**	0.49	
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.1**	0.84	**0.43**	0.17	
74-87-3	**Chloromethane**	**0.53**	0.33	**0.26**	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.84	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.065	
106-99-0	1,3-Butadiene	ND	0.33	ND	0.15	
74-83-9	Bromomethane	ND	0.17	ND	0.043	
75-00-3	**Chloroethane**	**0.17**	0.17	**0.063**	0.063	
64-17-5	**Ethanol**	**23**	8.4	**12**	4.4	
75-05-8	Acetonitrile	ND	0.84	ND	0.50	
107-02-8	Acrolein	ND	3.3	ND	1.5	
67-64-1	**Acetone**	**17**	8.4	**7.1**	3.5	
75-69-4	**Trichlorofluoromethane**	**1.1**	0.17	**0.20**	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.7	ND	0.68	
107-13-1	Acrylonitrile	ND	0.84	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.17	ND	0.042	
75-09-2	Methylene Chloride	ND	0.84	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	ND	0.053	
76-13-1	**Trichlorotrifluoroethane**	**0.49**	0.17	**0.065**	0.022	
75-15-0	Carbon Disulfide	ND	8.4	ND	2.7	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	ND	0.042	
75-34-3	1,1-Dichloroethane	ND	0.17	ND	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	ND	0.046	
108-05-4	Vinyl Acetate	ND	8.4	ND	2.4	
78-93-3	2-Butanone (MEK)	ND	8.4	ND	2.8	

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: Rv Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110307**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01019

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	ND	0.042	
141-78-6	Ethyl Acetate	ND	0.84	ND	0.23	
110-54-3	**n-Hexane**	**1.7**	0.84	**0.48**	0.24	
67-66-3	Chloroform	ND	0.17	ND	0.034	
109-99-9	Tetrahydrofuran (THF)	ND	0.84	ND	0.28	
107-06-2	1,2-Dichloroethane	ND	0.17	ND	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.031	
71-43-2	**Benzene**	**1.1**	0.17	**0.35**	0.052	
56-23-5	**Carbon Tetrachloride**	**0.48**	0.17	**0.076**	0.027	
110-82-7	Cyclohexane	ND	0.84	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.036	
75-27-4	Bromodichloromethane	ND	0.17	ND	0.025	
79-01-6	**Trichloroethene**	**0.52**	0.17	**0.098**	0.031	
123-91-1	1,4-Dioxane	ND	0.84	ND	0.23	
80-62-6	Methyl Methacrylate	ND	0.84	ND	0.20	
142-82-5	n-Heptane	ND	0.84	ND	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.84	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.031	
108-88-3	**Toluene**	**3.7**	0.84	**0.99**	0.22	
591-78-6	2-Hexanone	ND	0.84	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.17	ND	0.020	
106-93-4	1,2-Dibromoethane	ND	0.17	ND	0.022	
123-86-4	n-Butyl Acetate	ND	0.84	ND	0.18	

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: Re Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.** CAS Project ID: P1001603
Client Sample ID: **110307** CAS Sample ID: P1001603-008
Client Project ID: **17131**

Test Code: EPA TO-15 Date Collected: 5/6/10
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/7/10
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01019

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	**n-Octane**	**1.3**	0.84	**0.28**	0.18	
127-18-4	**Tetrachloroethene**	**5.3**	0.17	**0.78**	0.025	
108-90-7	Chlorobenzene	ND	0.17	ND	0.036	
100-41-4	Ethylbenzene	ND	0.84	ND	0.19	
179601-23-1	**m,p-Xylenes**	**2.3**	0.84	**0.54**	0.19	
75-25-2	Bromoform	ND	0.84	ND	0.081	
100-42-5	Styrene	ND	0.84	ND	0.20	
95-47-6	**o-Xylene**	**0.89**	0.84	**0.21**	0.19	
111-84-2	**n-Nonane**	**1.2**	0.84	**0.23**	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	ND	0.024	
98-82-8	Cumene	ND	0.84	ND	0.17	
80-56-8	alpha-Pinene	ND	0.84	ND	0.15	
103-65-1	n-Propylbenzene	ND	0.84	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.84	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.84	ND	0.17	
95-63-6	**1,2,4-Trimethylbenzene**	**0.90**	0.84	**0.18**	0.17	
100-44-7	Benzyl Chloride	ND	0.84	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.17	ND	0.028	
106-46-7	1,4-Dichlorobenzene	ND	0.17	ND	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.17	ND	0.028	
5989-27-5	**d-Limonene**	**0.86**	0.84	**0.15**	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.84	ND	0.086	
120-82-1	1,2,4-Trichlorobenzene	ND	0.84	ND	0.11	
91-20-3	Naphthalene	ND	0.84	ND	0.16	
87-68-3	Hexachlorobutadiene	ND	0.84	ND	0.078	

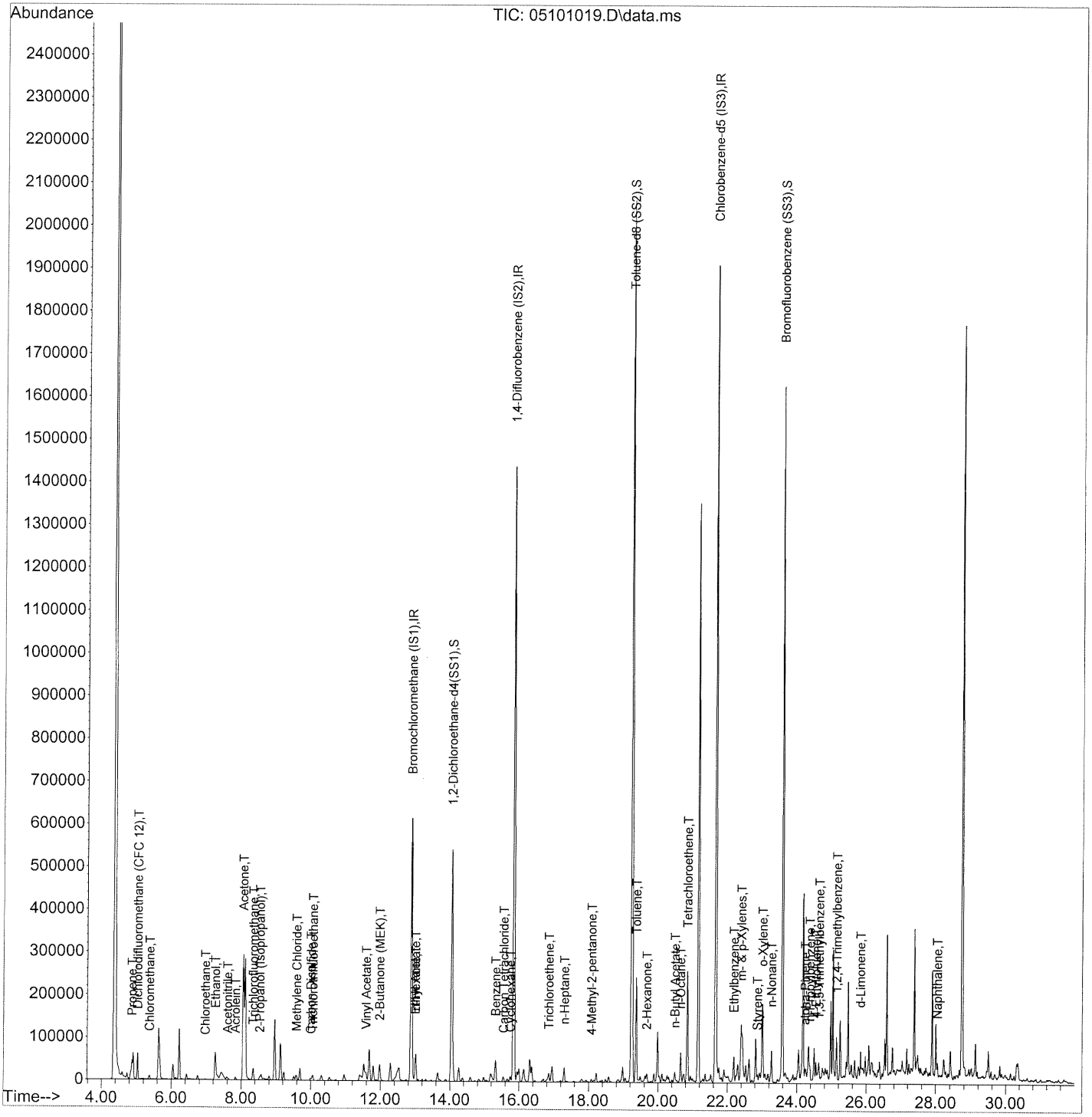
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 14 08:09:56 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 14 08:09:56 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	369171	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1763313	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	746127	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	550827	24.722	ng		0.00
Spiked Amount 25.000			Recovery =	98.88%			✓
57) Toluene-d8 (SS2)	19.24	98	1861952	24.742	ng		0.00
Spiked Amount 25.000			Recovery =	98.96%			✓
73) Bromofluorobenzene (SS3)	23.58	174	645784	24.499	ng		0.00
Spiked Amount 25.000			Recovery =	98.00%			✓
Target Compounds							Qvalue
2) Propene	4.87	42	16851m	0.806	ng		
3) Dichlorodifluoromethan...	5.04	85	61890	1.258	ng		99
4) Chloromethane	5.37	50	9519	0.319	ng		100
9) Chloroethane	6.97	64	1706	0.100	ng	#	52
10) Ethanol	7.26	45	177410m	13.926	ng		
11) Acetonitrile	7.61	41	7280	0.236	ng		98
12) Acrolein	7.84	56	7360	0.586	ng		97
13) Acetone	8.05	58	164757m	10.121	ng		
14) Trichlorofluoromethane	8.35	101	29864	0.667	ng		99
15) 2-Propanol (Isopropanol)	8.53	45	25915m	0.546	ng		
19) Methylene Chloride	9.59	84	3714	0.152	ng	#	75
21) Trichlorotrifluoroethane	10.06	151	6639	0.296	ng	#	79
22) Carbon Disulfide	10.00	76	11527	0.146	ng		89
26) Vinyl Acetate	11.59	86	5036	0.889	ng	#	1
27) 2-Butanone (MEK)	11.98	72	19424	1.299	ng	#	71
30) Ethyl Acetate	13.00	61	1263	0.159	ng	#	40
31) n-Hexane	13.01	57	38332	1.013	ng	#	96
41) Benzene	15.32	78	66984	0.667	ng		99
42) Carbon Tetrachloride	15.55	117	8815	0.286	ng		100
43) Cyclohexane	15.75	84	8084	0.216	ng	#	77
47) Trichloroethene	16.86	130	8786	0.314	ng		96
51) n-Heptane	17.30	71	11124	0.466	ng		89
53) 4-Methyl-2-pentanone	18.08	58	1964	0.103	ng	#	55
58) Toluene	19.37	91	235860	2.222	ng		99
59) 2-Hexanone	19.67	43	15201	0.338	ng		93
62) n-Butyl Acetate	20.48	43	18486	0.360	ng		83
63) n-Octane	20.65	57	14772	0.776	ng	#	84
64) Tetrachloroethene	20.84	166	105222	3.173	ng		99
66) Ethylbenzene	22.19	91	52880	0.455	ng		94
67) m- & p-Xylenes	22.40	91	127960	1.392	ng		92

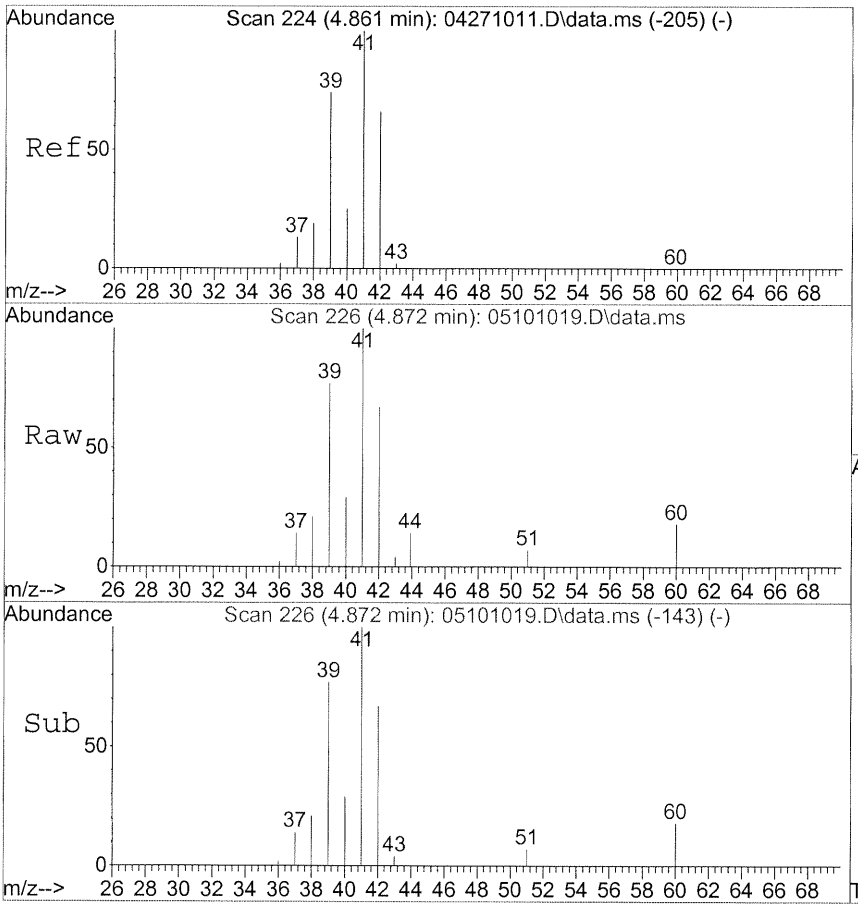
Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 14 08:09:56 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
69) Styrene	22.87	104	9896	0.137	ng	#	76
70) o-Xylene	23.01	91	49927	0.533	ng		92
71) n-Nonane	23.27	43	29106	0.712	ng		91
75) alpha-Pinene	24.24	93	11996	0.202	ng		82
76) n-Propylbenzene	24.37	91	18517	0.125	ng	#	90
78) 4-Ethyltoluene	24.55	105	22181	0.188	ng		96
79) 1,3,5-Trimethylbenzene	24.64	105	18919	0.196	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	53637	0.538	ng		96
91) d-Limonene	25.84	68	17810	0.514	ng		89
95) Naphthalene	28.05	128	23170	0.183	ng		99

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

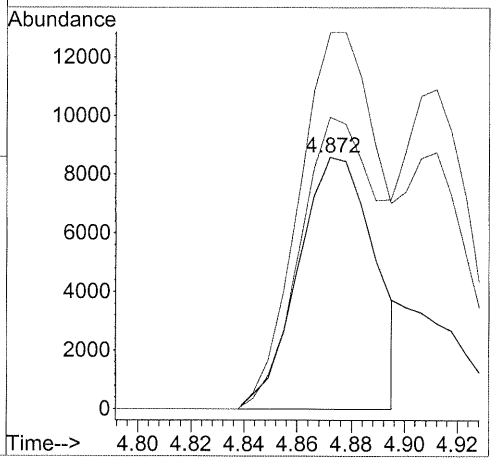
MA 5/17/10

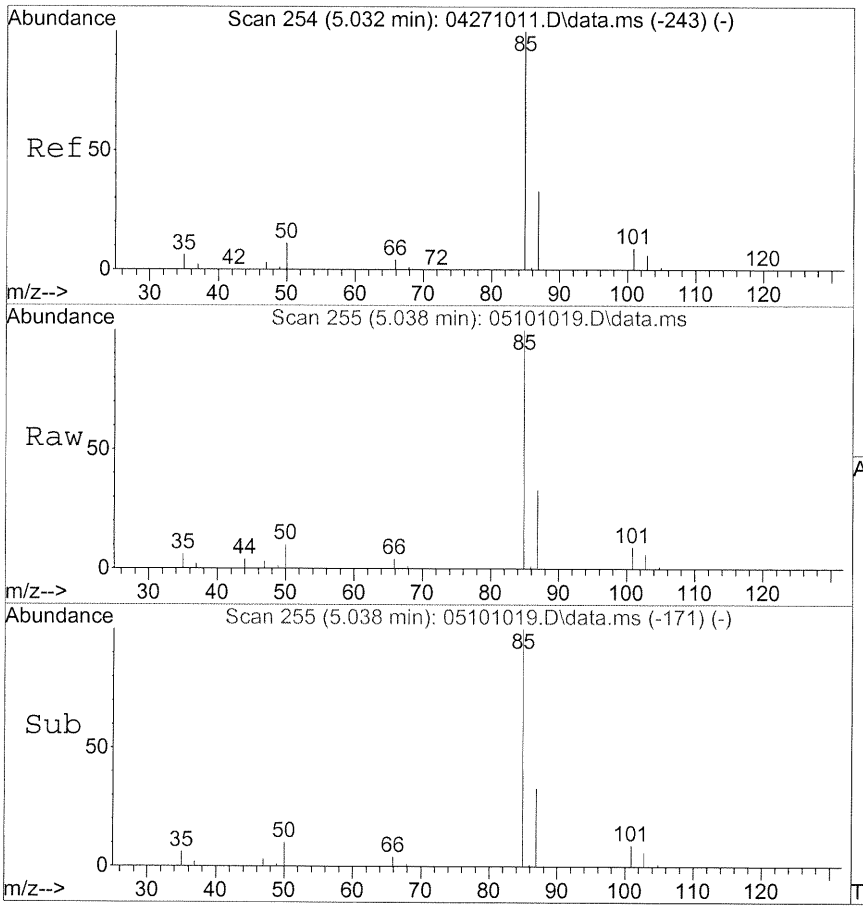


#2
Propene
Concen: 0.81 ng m
RT: 4.87 min Scan# 226
Delta R.T. -0.029 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 42 Resp: 16851

Ion	Ratio	Lower	Upper
42	100		
39	122.3	92.2	132.2
41	245.6	133.9	173.9#

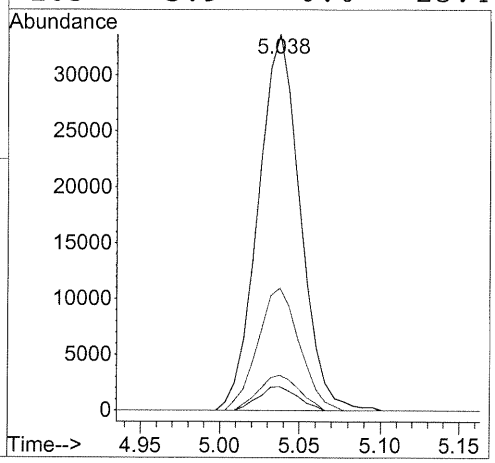


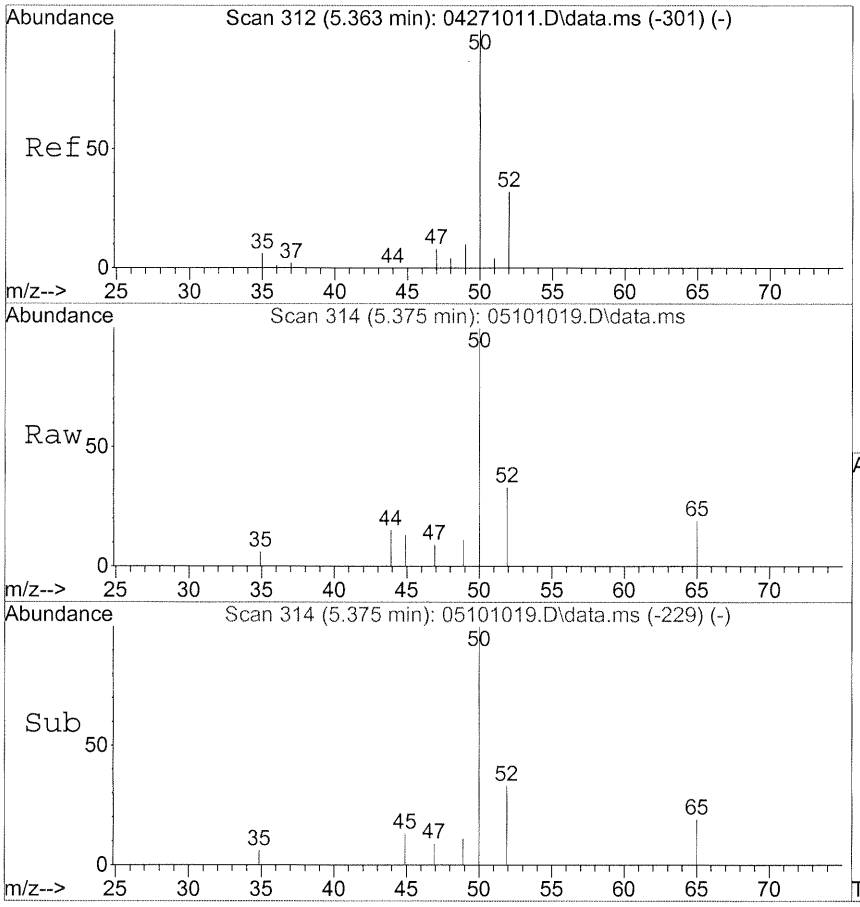


#3
Dichlorodifluoromethane (CFC
Concen: 1.26 ng
RT: 5.04 min Scan# 255
Delta R.T. -0.023 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 85 Resp: 61890

Ion	Ratio	Lower	Upper
85	100		
87	32.3	12.0	52.0
101	9.0	0.0	28.5
103	5.9	0.0	25.4

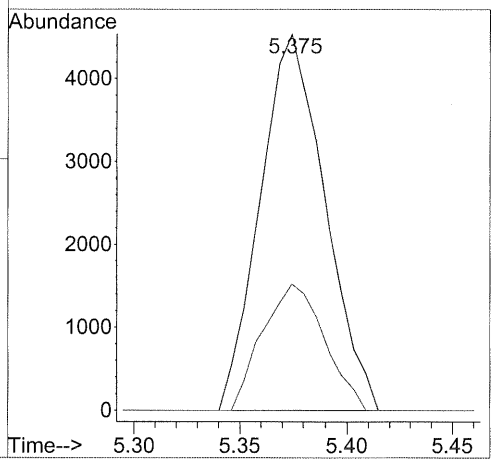


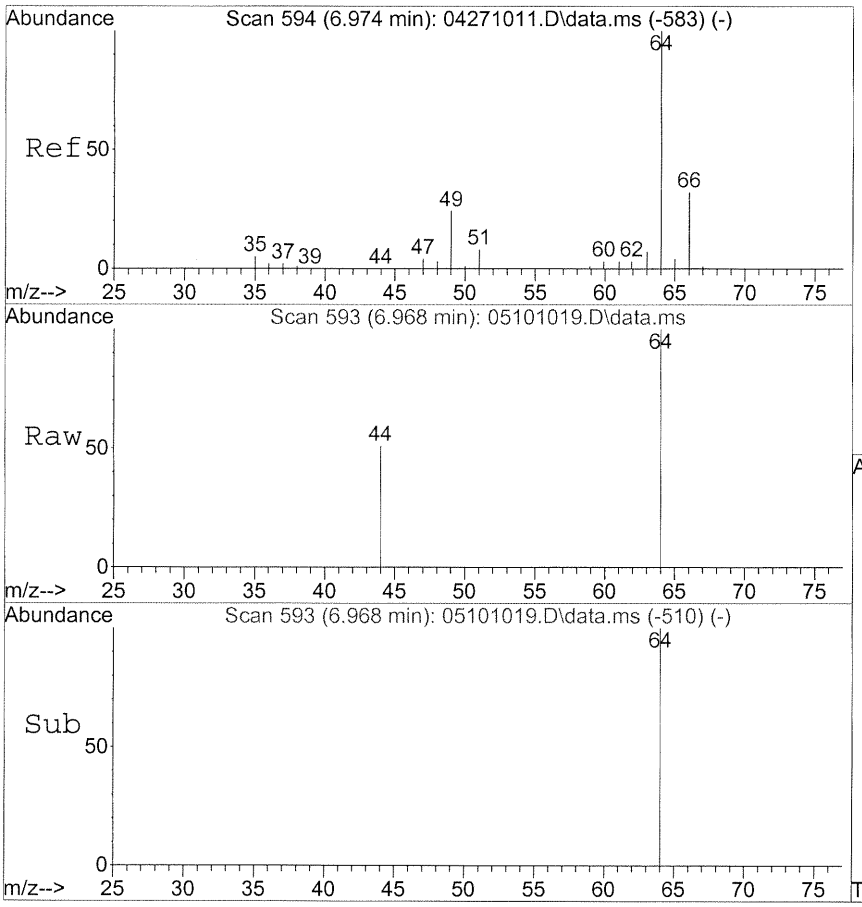


#4
Chloromethane
Concen: 0.32 ng
RT: 5.37 min Scan# 314
Delta R.T. -0.017 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 50 Resp: 9519

Ion	Ratio	Lower	Upper
50	100		
52	32.1	12.1	52.1

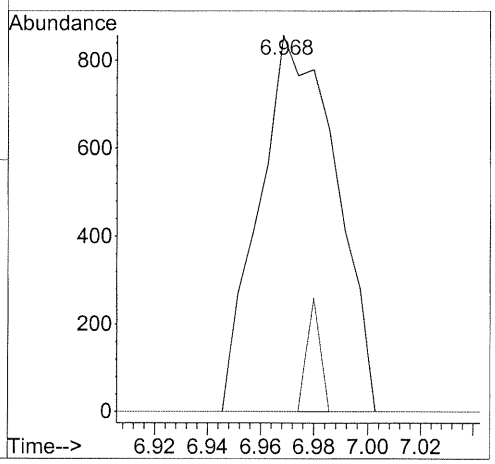


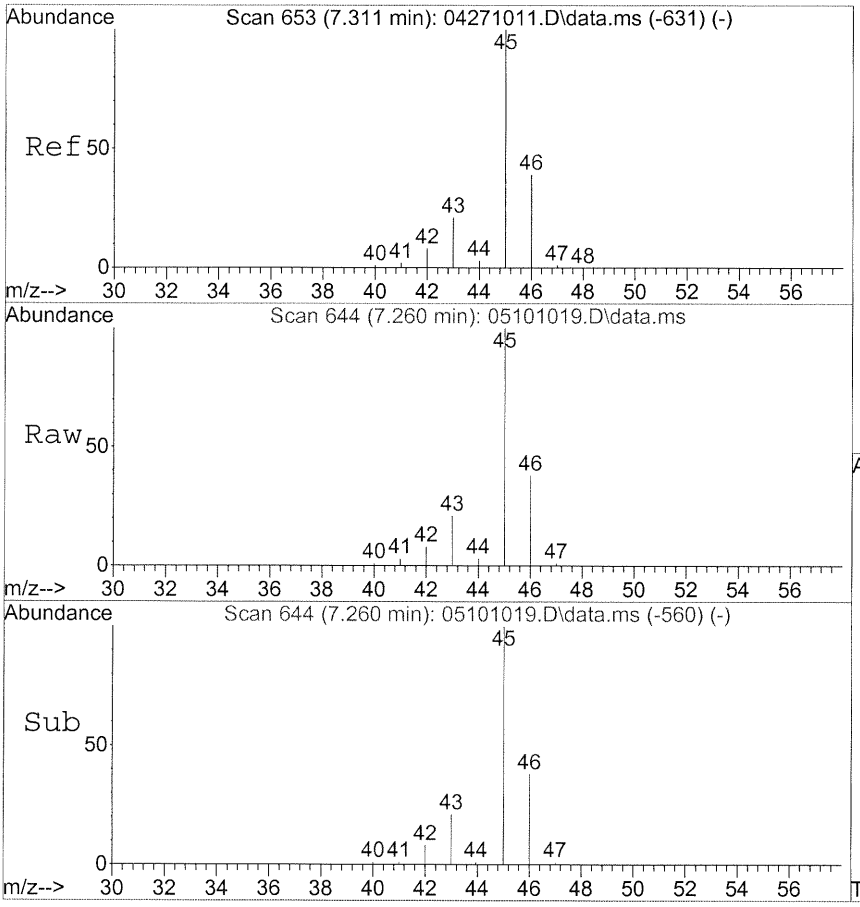


#9
Chloroethane
Concen: 0.10 ng
RT: 6.97 min Scan# 593
Delta R.T. -0.029 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 64 Resp: 1706

Ion	Ratio	Lower	Upper
64	100		
66	5.2	11.7	51.7#

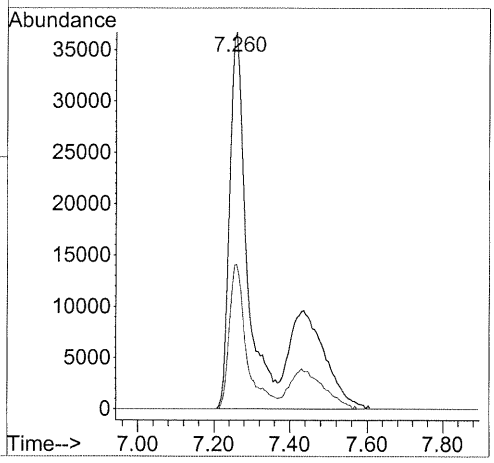


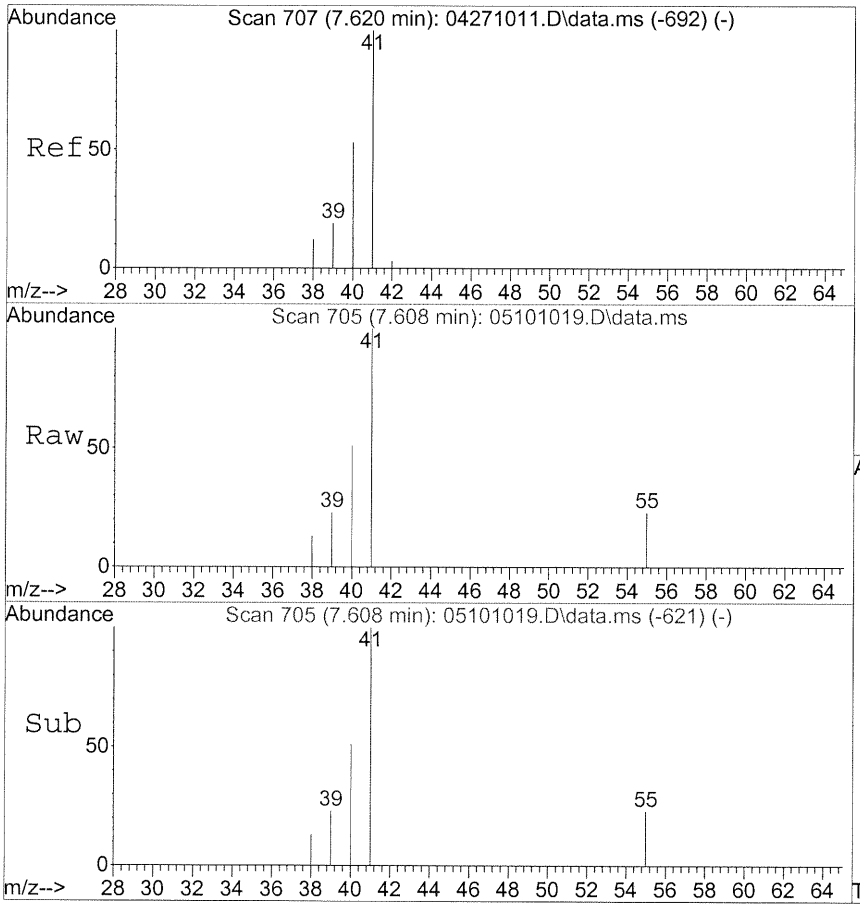


#10
Ethanol
Concen: 13.93 ng m
RT: 7.26 min Scan# 644
Delta R.T. -0.023 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 45 Resp: 177410

Ion	Ratio	Lower	Upper
45	100		
46	25.3	18.4	58.4

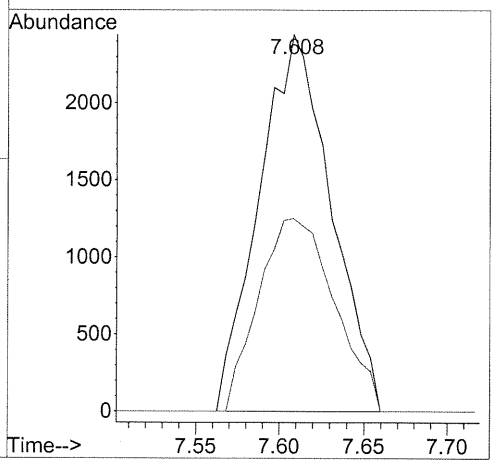


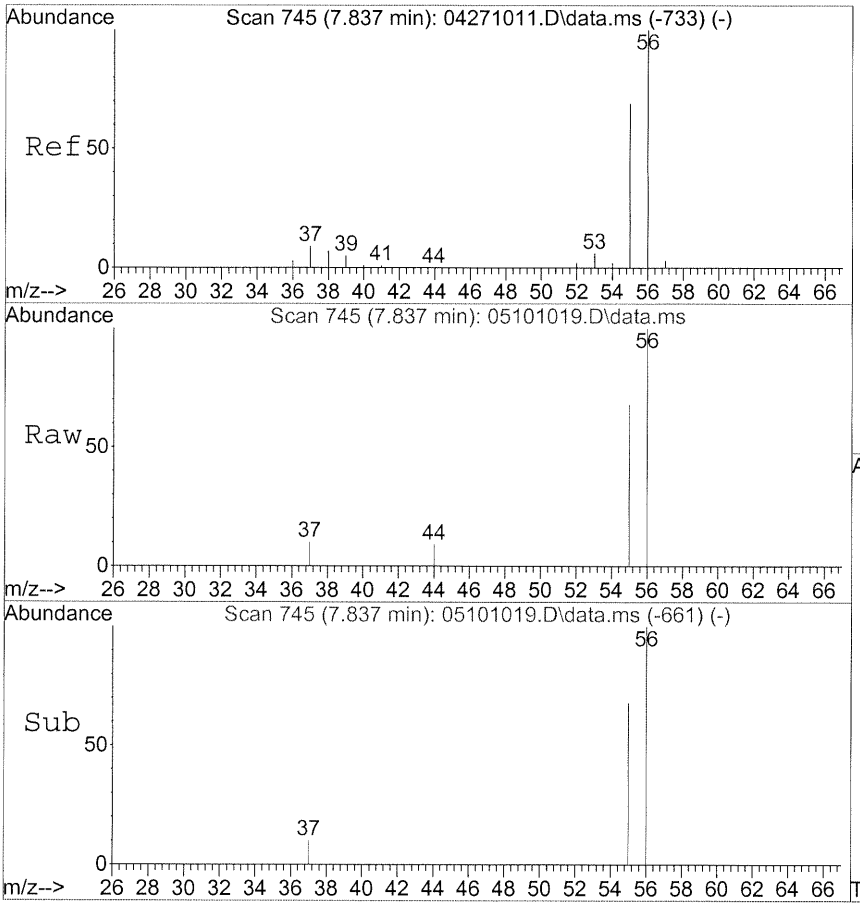


#11
Acetonitrile
Concen: 0.24 ng
RT: 7.61 min Scan# 705
Delta R.T. -0.023 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 41 Resp: 7280

Ion	Ratio	Lower	Upper
41	100		
40	53.8	32.7	72.7

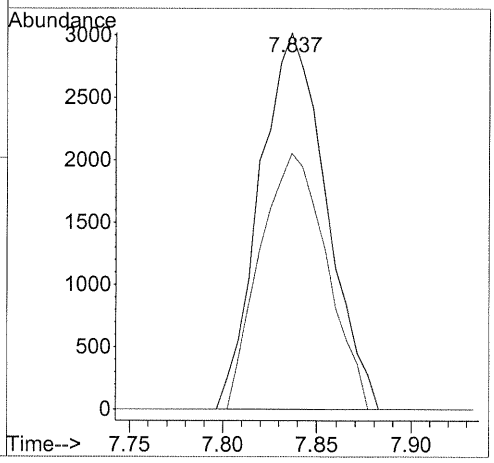


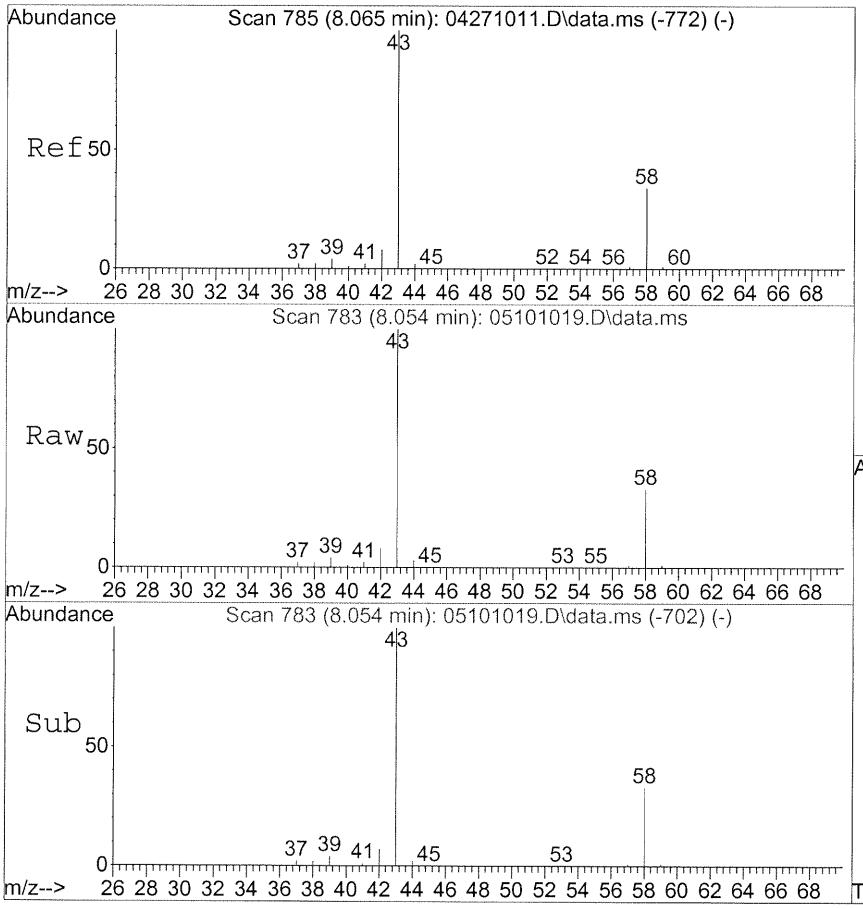


#12
Acrolein
Concen: 0.59 ng
RT: 7.84 min Scan# 745
Delta R.T. -0.022 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 56 Resp: 7360

Ion	Ratio	Lower	Upper
56	100		
55	68.3	50.5	90.5

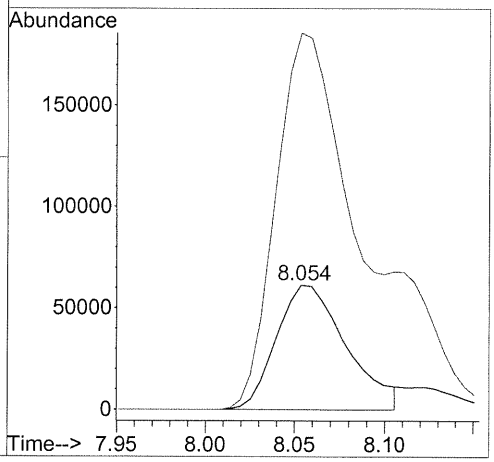


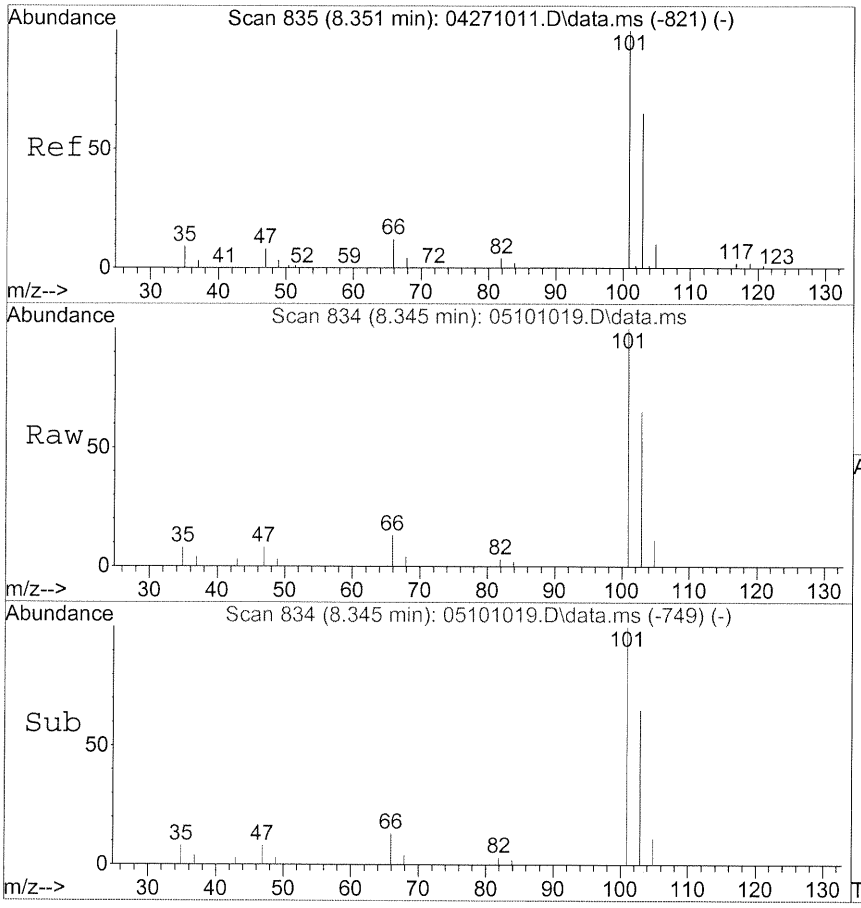


#13
Acetone
Concen: 10.12 ng m
RT: 8.05 min Scan# 783
Delta R.T. -0.040 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 58 Resp: 164757

Ion	Ratio	Lower	Upper
58	100		
43	400.2	295.0	355.0#

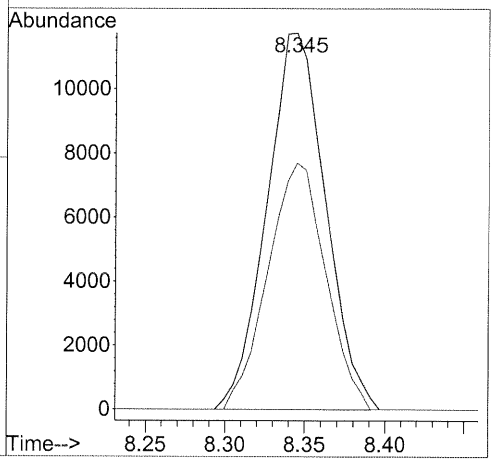


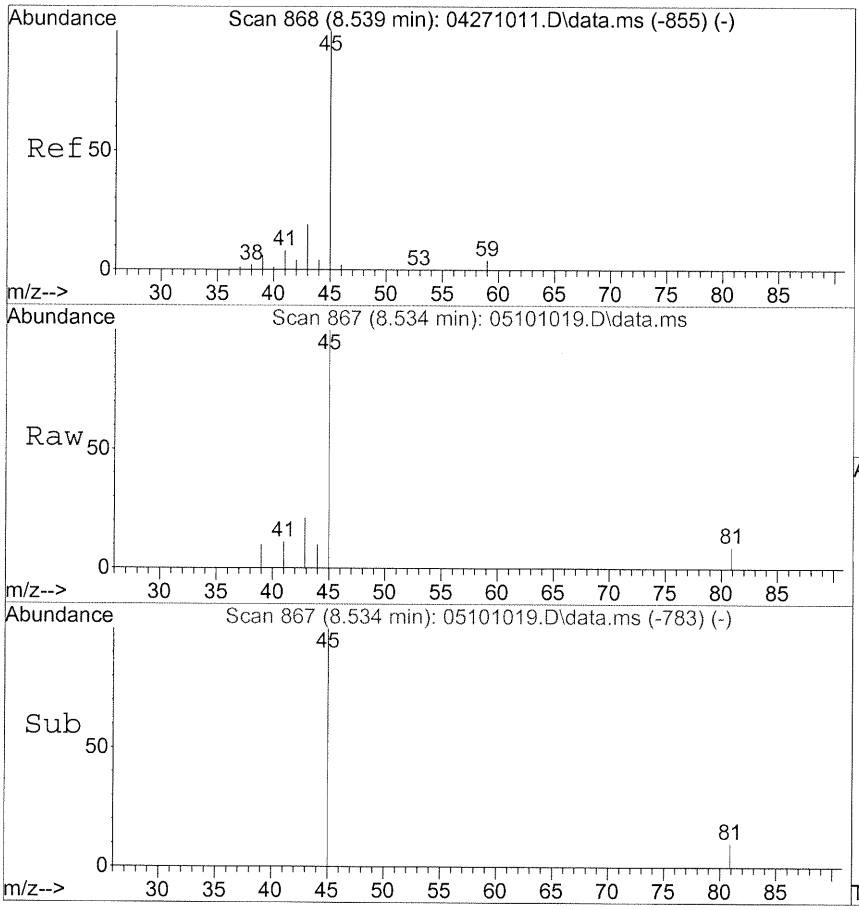


#14
Trichlorofluoromethane
Concen: 0.67 ng
RT: 8.35 min Scan# 834
Delta R.T. -0.017 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:101 Resp: 29864

Ion	Ratio	Lower	Upper
101	100		
103	64.6	43.8	83.8

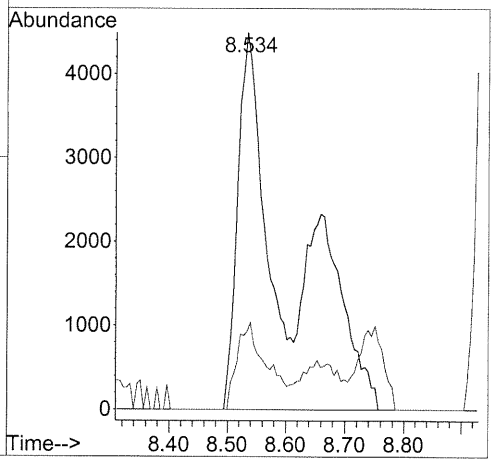


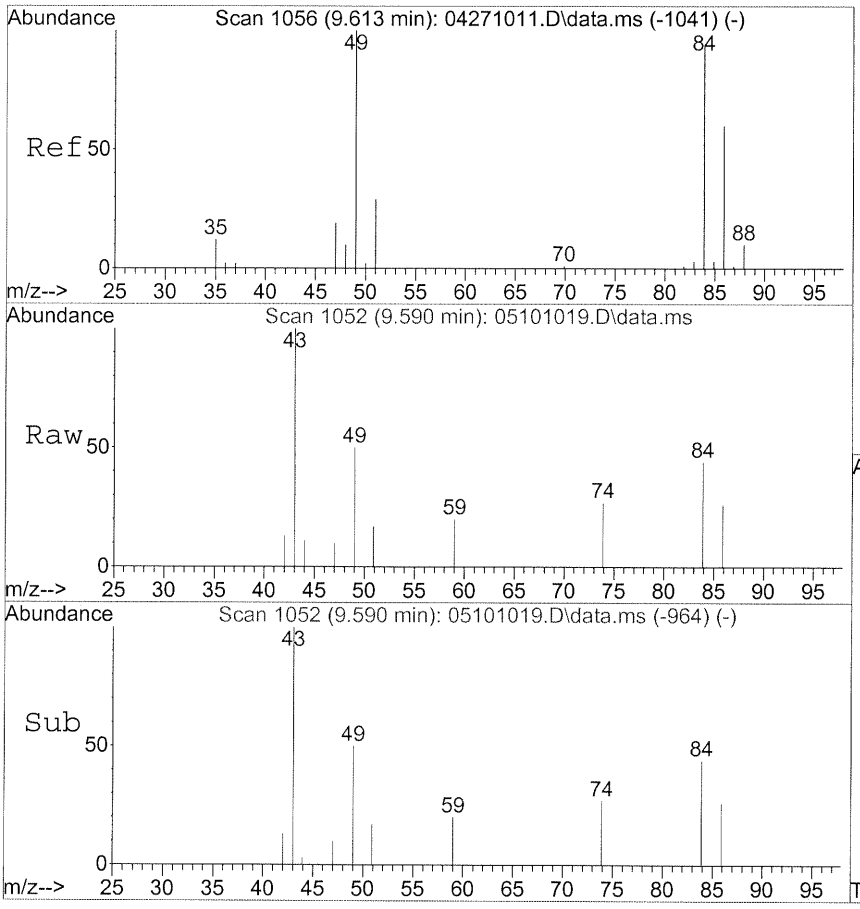


#15
2-Propanol (Isopropanol)
Concen: 0.55 ng m
RT: 8.53 min Scan# 867
Delta R.T. -0.023 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 45 Resp: 25915

Ion	Ratio	Lower	Upper
45	100		
43	14.7	0.0	39.2

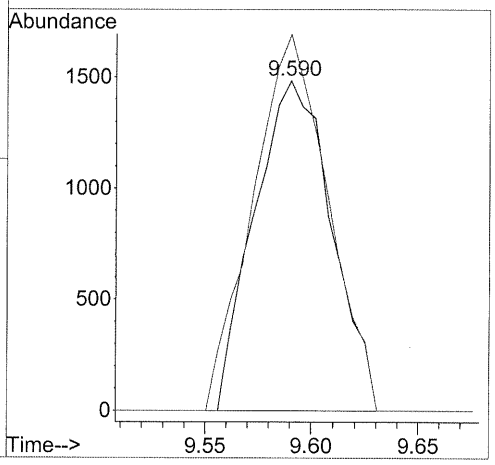


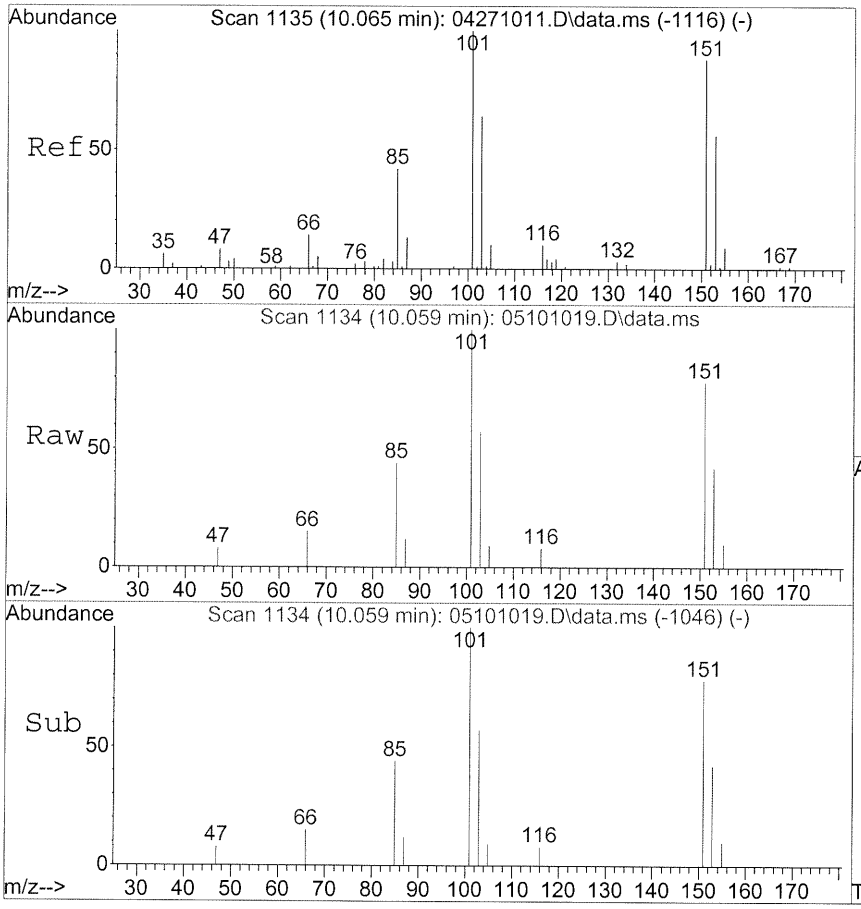


#19
Methylene Chloride
Concen: 0.15 ng
RT: 9.59 min Scan# 1052
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 84 Resp: 3714

Ion	Ratio	Lower	Upper
84	100		
49	111.2	116.6	166.6#

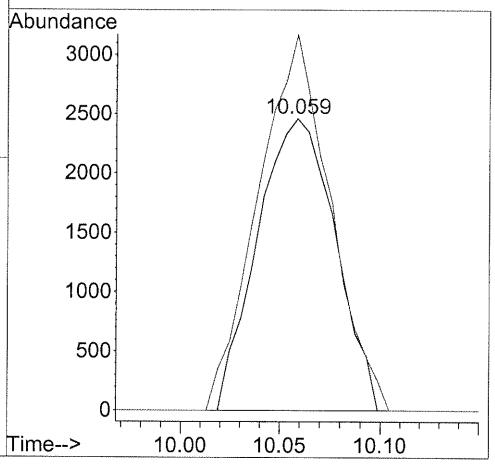


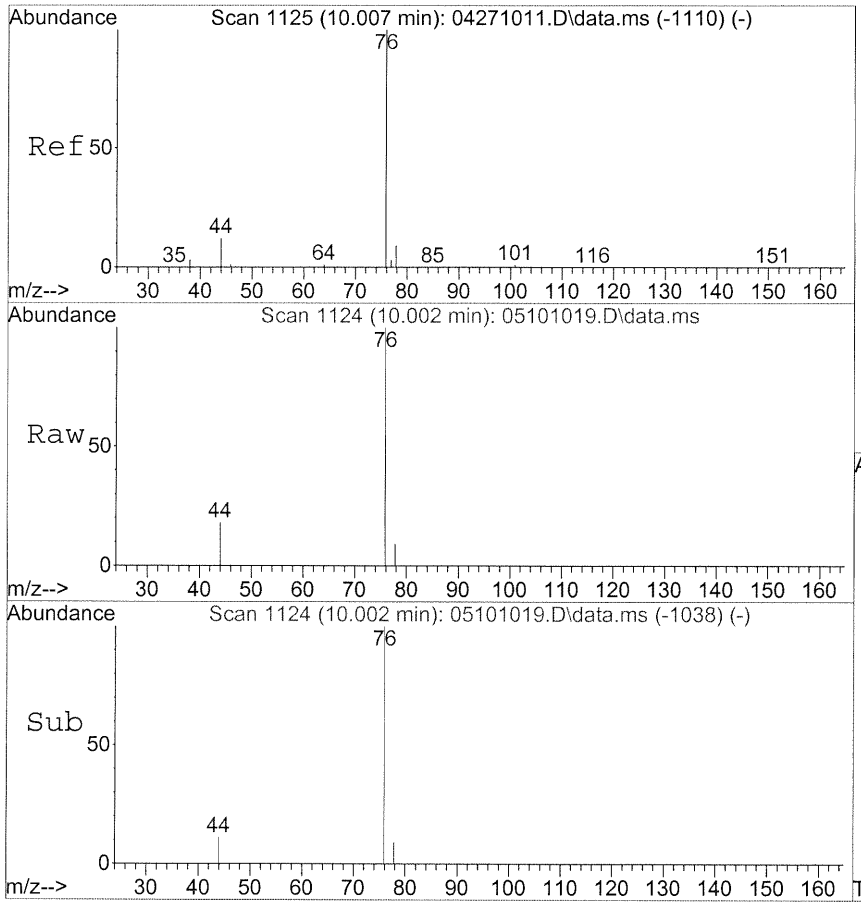


#21
Trichlorotrifluoroethane
Concen: 0.30 ng
RT: 10.06 min Scan# 1134
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:151 Resp: 6639

Ion	Ratio	Lower	Upper
151	100		
101	119.5	125.6	165.6#

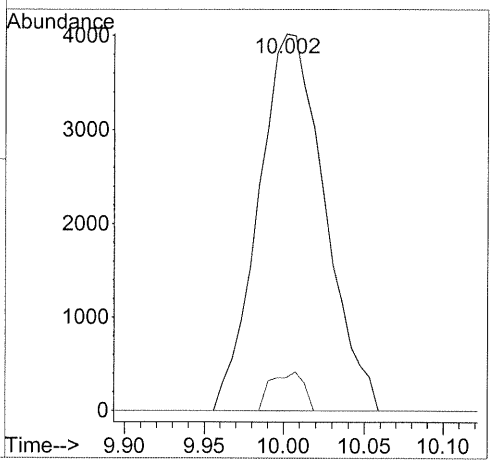


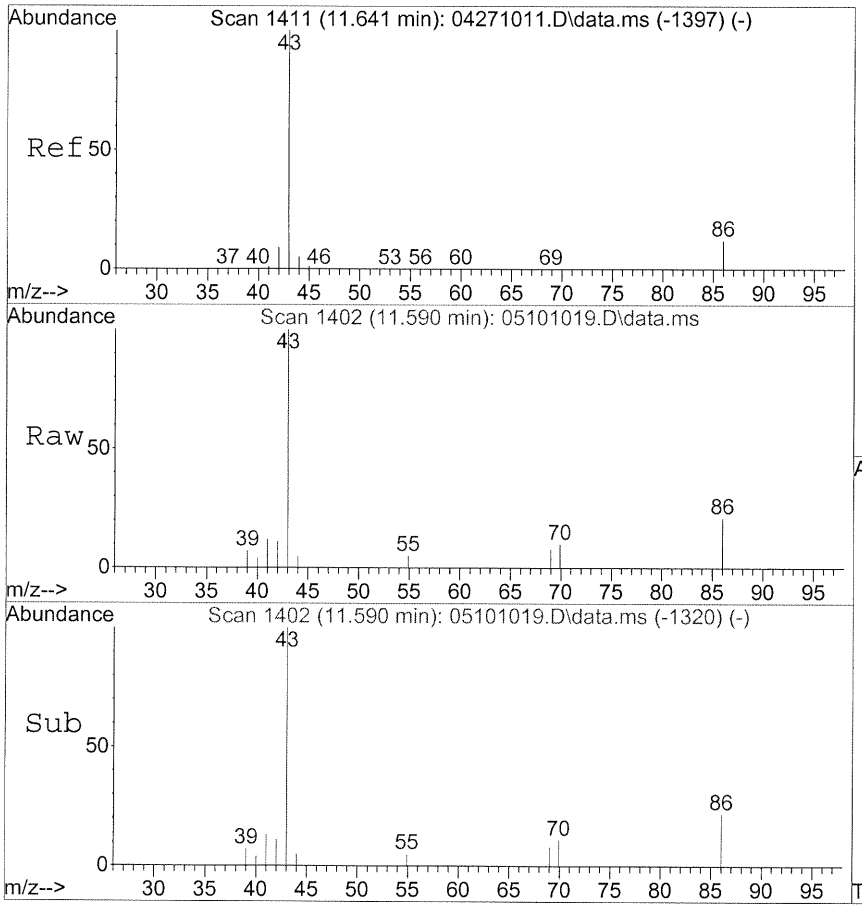


#22
Carbon Disulfide
Concen: 0.15 ng
RT: 10.00 min Scan# 1124
Delta R.T. -0.011 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 76 Resp: 11527

Ion	Ratio	Lower	Upper
76	100		
78	5.1	0.0	29.1

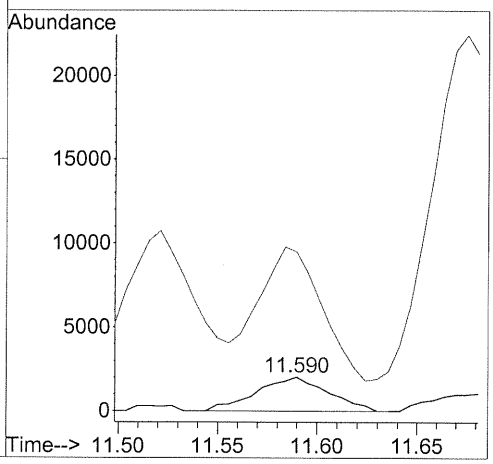


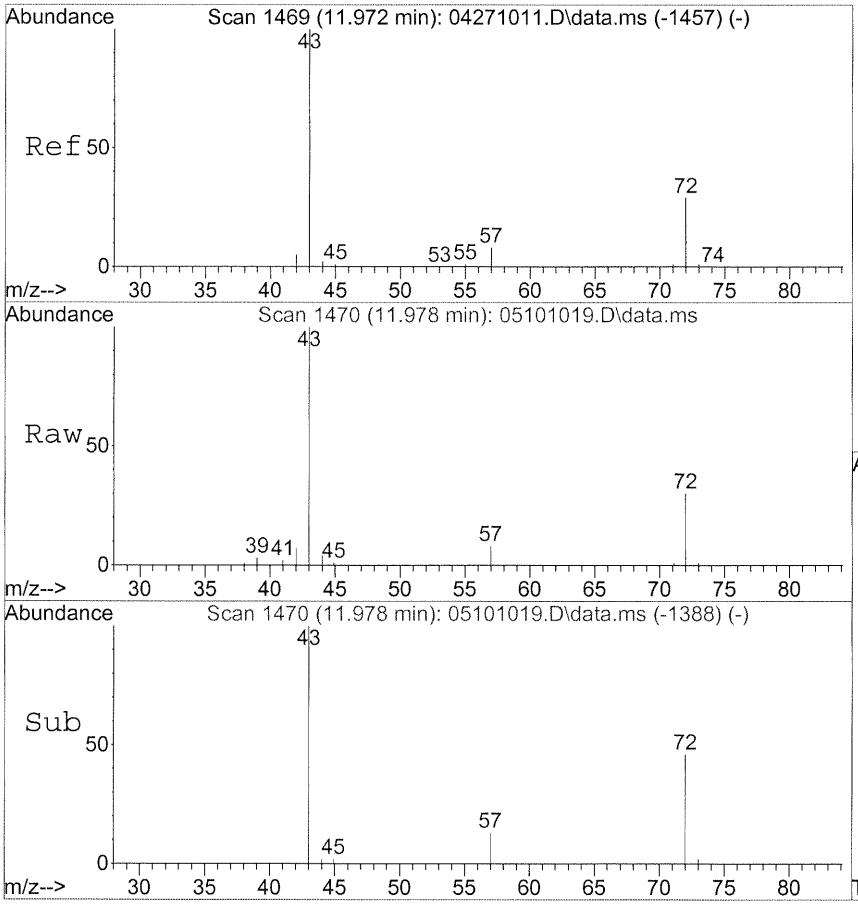


#26
Vinyl Acetate
Concen: 0.89 ng
RT: 11.59 min Scan# 1402
Delta R.T. -0.034 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 86 Resp: 5036

Ion	Ratio	Lower	Upper
86	100		
43	492.0	1285.5	1325.5#

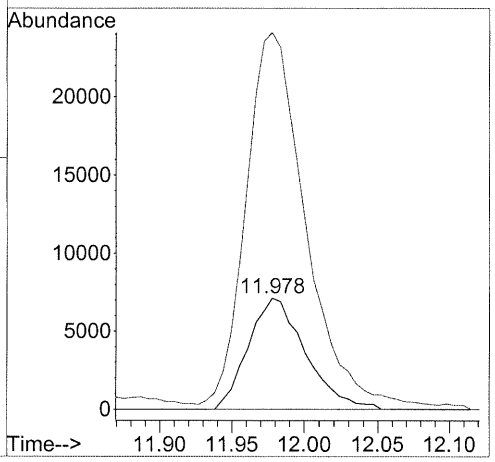


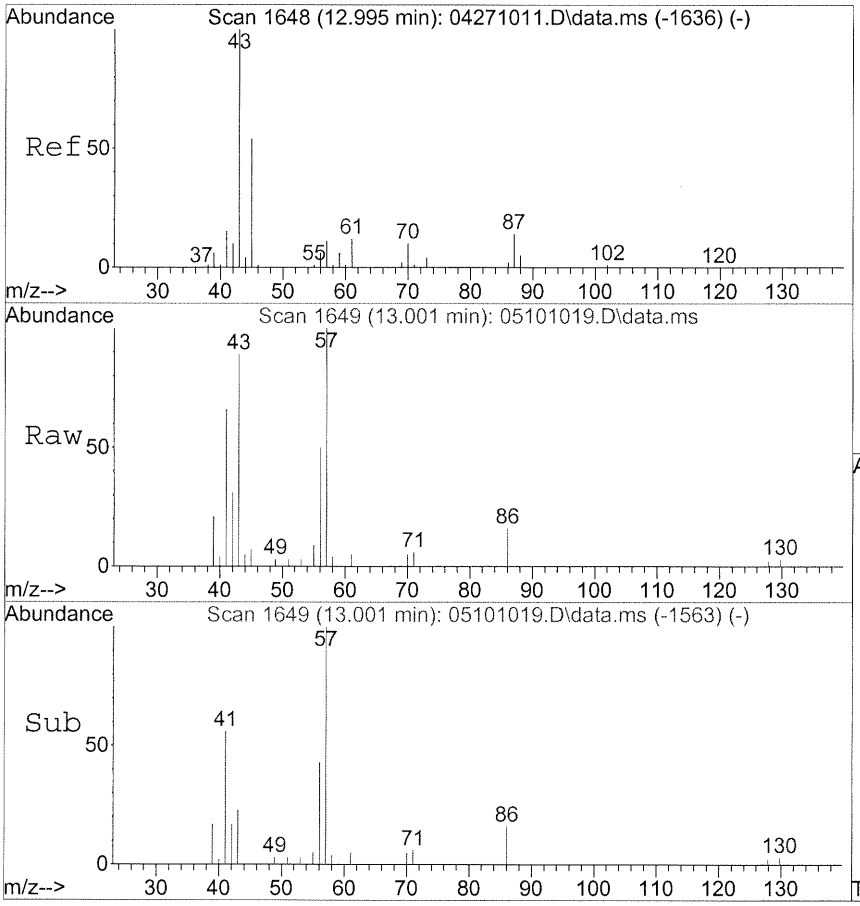


#27
2-Butanone (MEK)
Concen: 1.30 ng
RT: 11.98 min Scan# 1470
Delta R.T. -0.034 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 72 Resp: 19424

Ion	Ratio	Lower	Upper
72	100		
43	359.4	412.3	452.3#

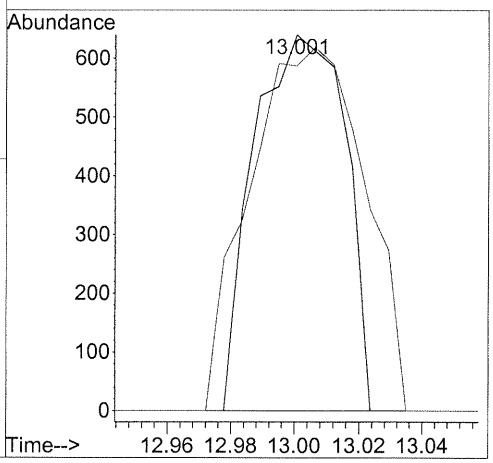


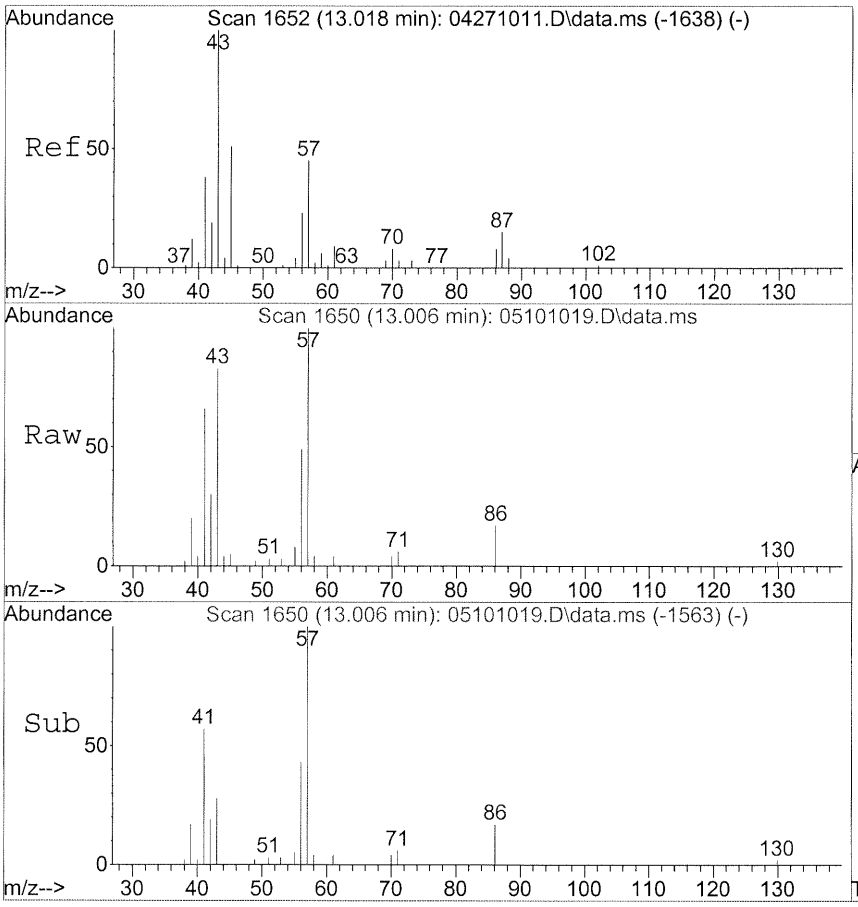


#30
Ethyl Acetate
Concen: 0.16 ng
RT: 13.00 min Scan# 1649
Delta R.T. -0.011 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 61 Resp: 1263

Ion	Ratio	Lower	Upper
61	100		
70	122.5	52.2	92.2#

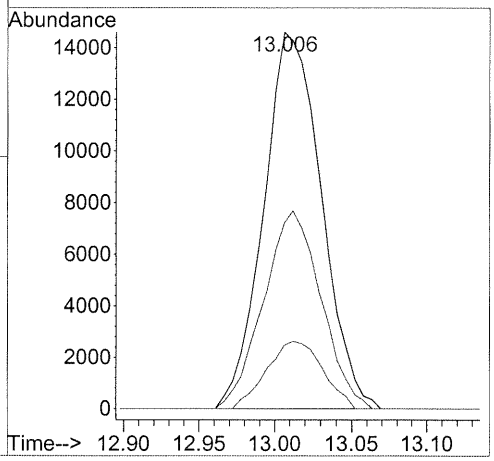


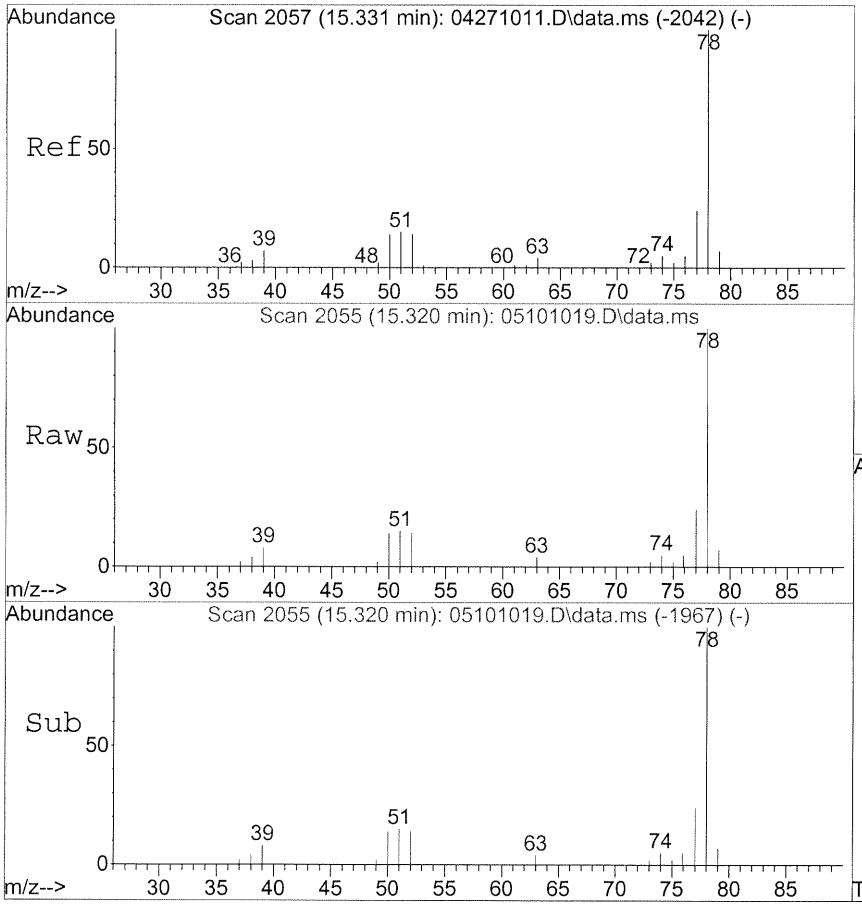


#31
n-Hexane
Concen: 1.01 ng
RT: 13.01 min Scan# 1650
Delta R.T. -0.006 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 57 Resp: 38332

Ion	Ratio	Lower	Upper
57	100		
56	52.4	40.0	60.0
86	17.4	11.5	17.3#

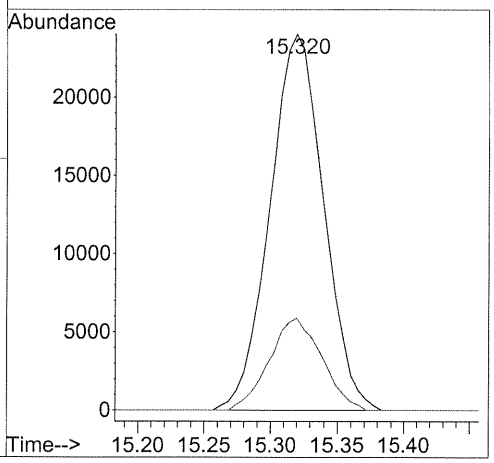


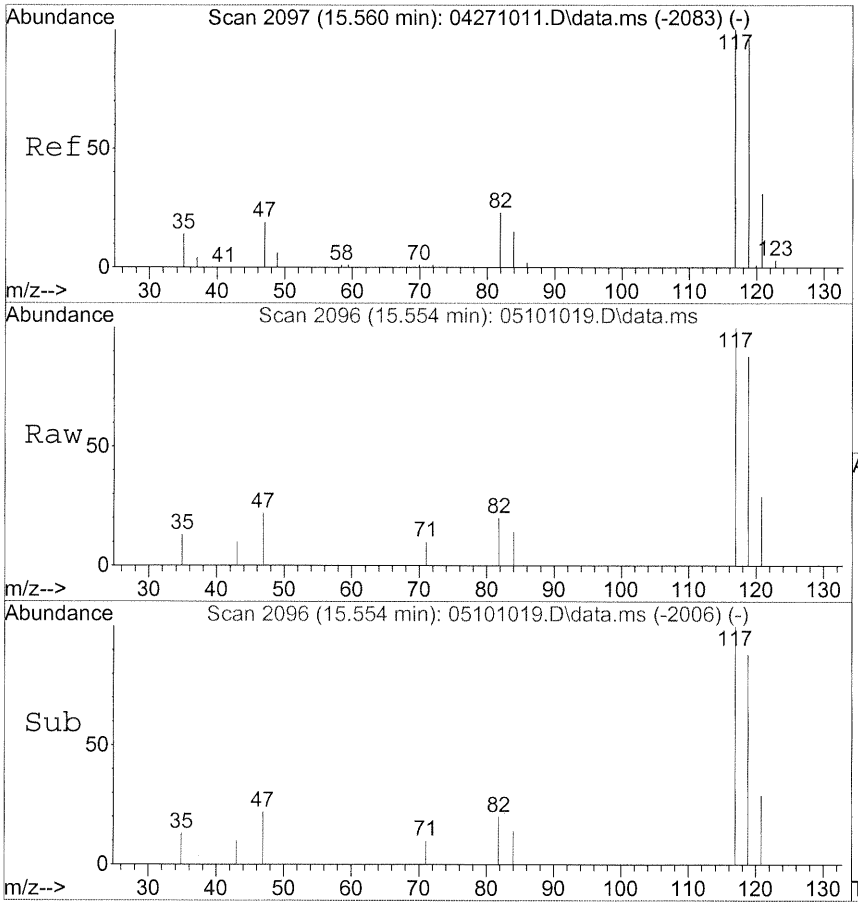


#41
Benzene
Concen: 0.67 ng
RT: 15.32 min Scan# 2055
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 78 Resp: 66984

Ion	Ratio	Lower	Upper
78	100		
77	23.9	4.4	44.4

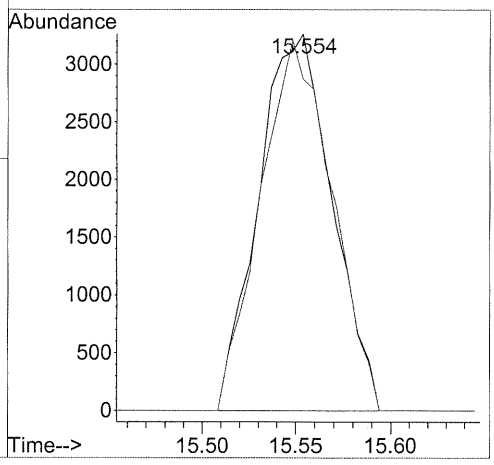


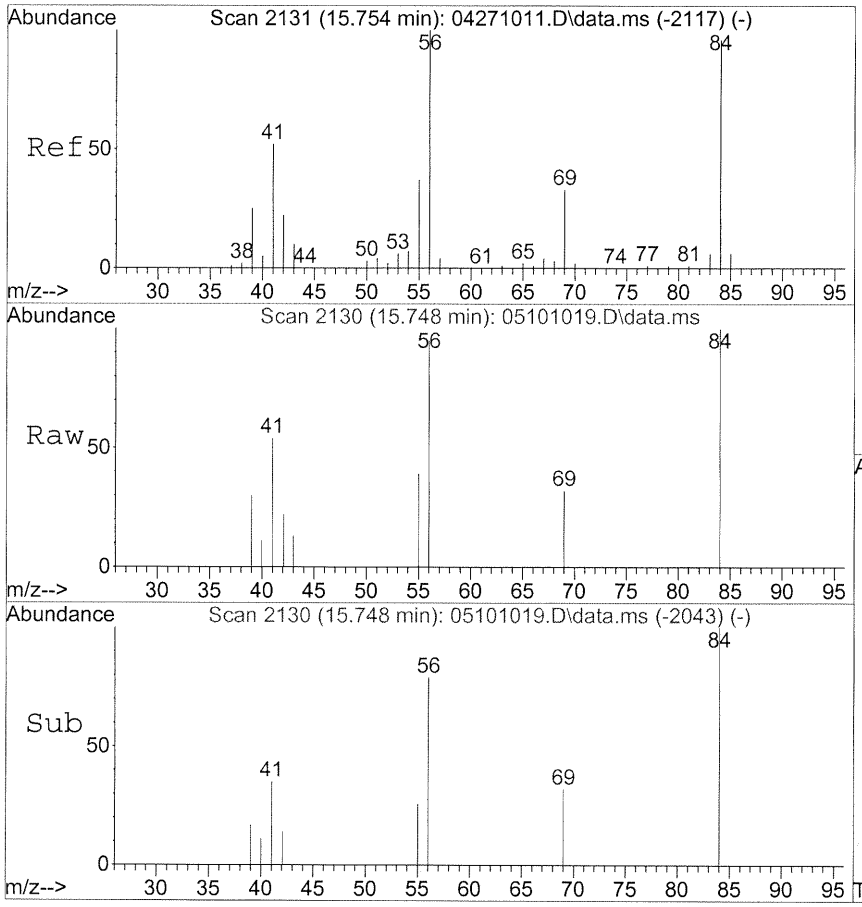


#42
Carbon Tetrachloride
Concen: 0.29 ng
RT: 15.55 min Scan# 2096
Delta R.T. 0.011 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:117 Resp: 8815

Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.8	115.8

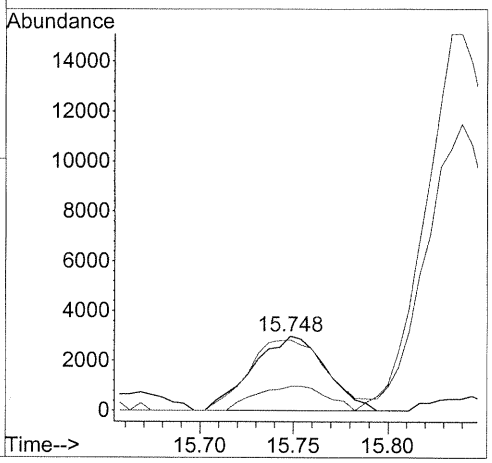


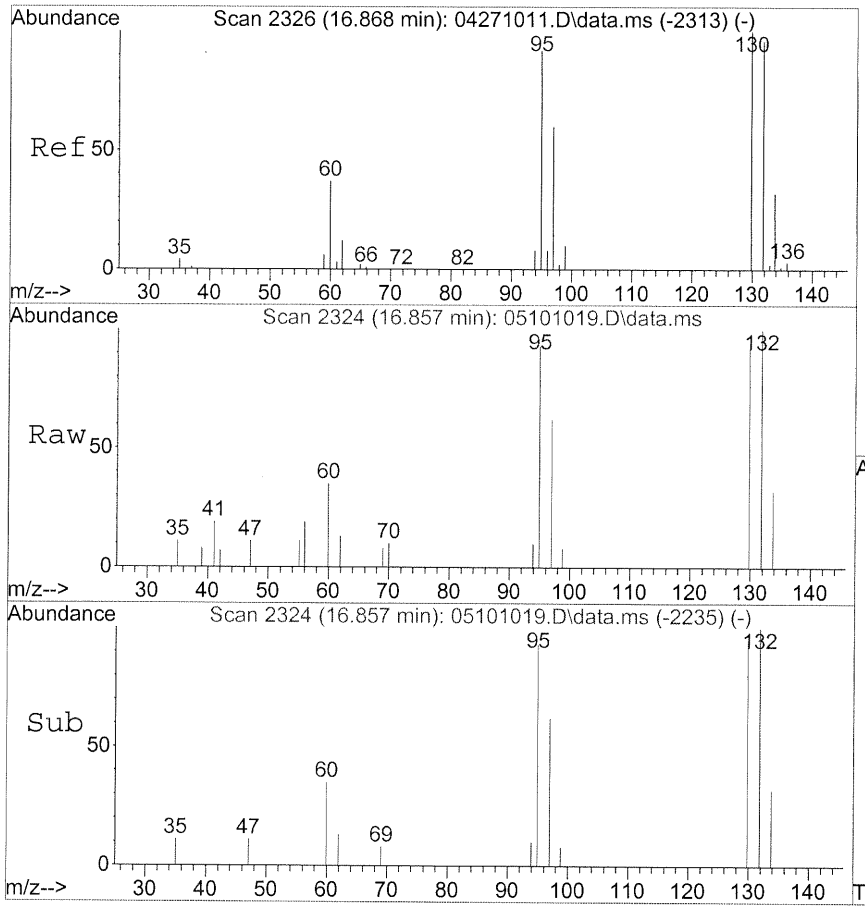


#43
Cyclohexane
Concen: 0.22 ng
RT: 15.75 min Scan# 2130
Delta R.T. -0.006 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 84 Resp: 8084

Ion	Ratio	Lower	Upper
84	100		
69	31.6	18.4	58.4
56	101.8	112.6	152.6#

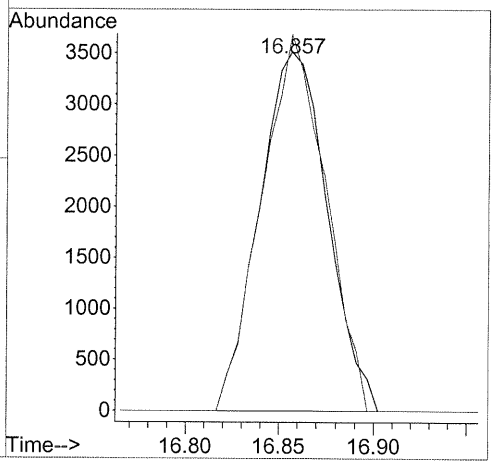


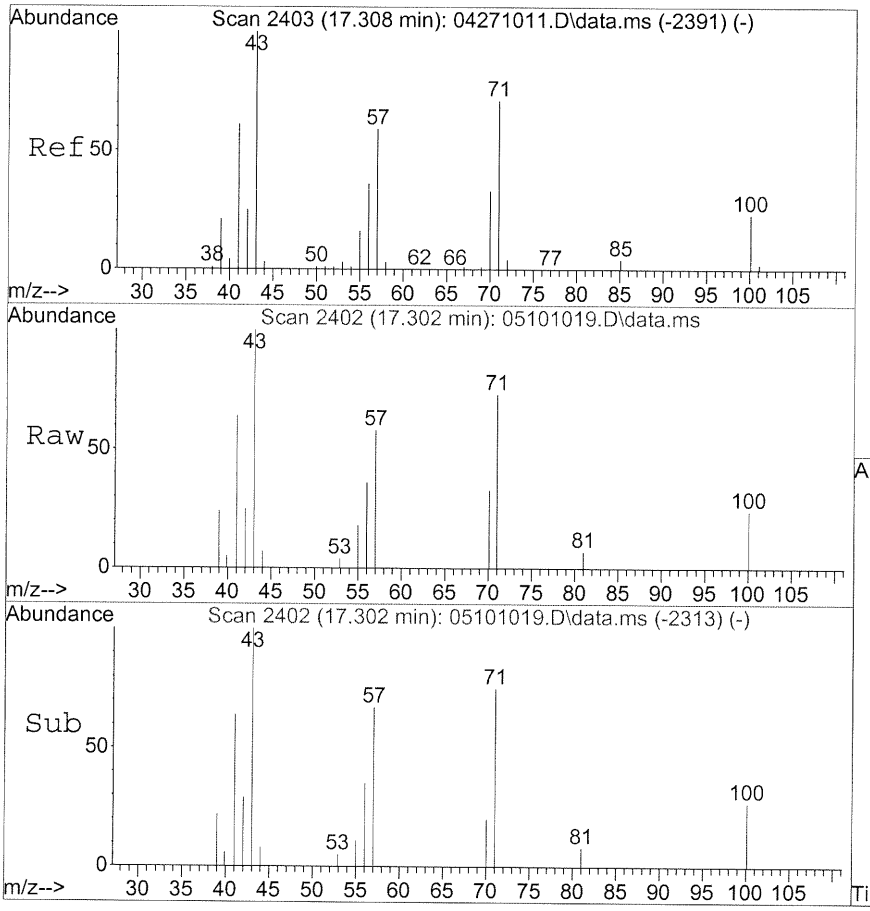


#47
Trichloroethene
Concen: 0.31 ng
RT: 16.86 min Scan# 2324
Delta R.T. 0.006 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:130 Resp: 8786

Ion	Ratio	Lower	Upper
130	100		
132	98.9	75.3	115.3

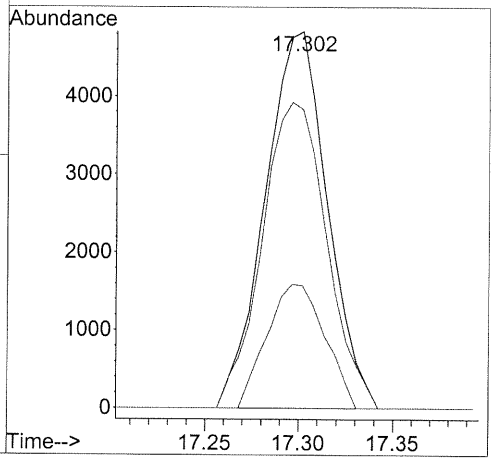


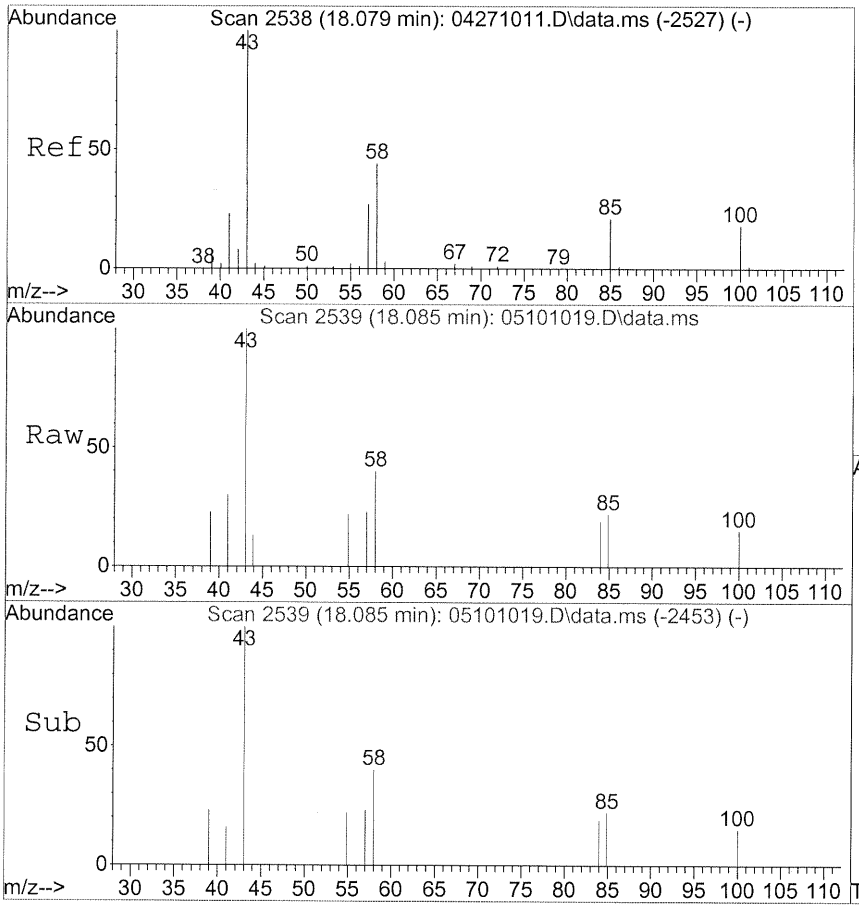


#51
n-Heptane
Concen: 0.47 ng
RT: 17.30 min Scan# 2402
Delta R.T. 0.006 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 71 Resp: 11124

Ion	Ratio	Lower	Upper
71	100		
57	84.2	74.9	114.9
100	30.6	5.0	45.0

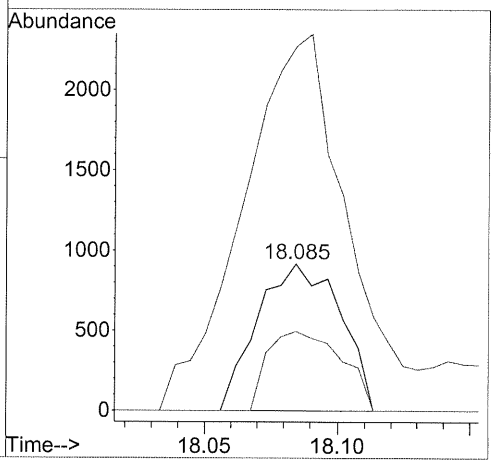


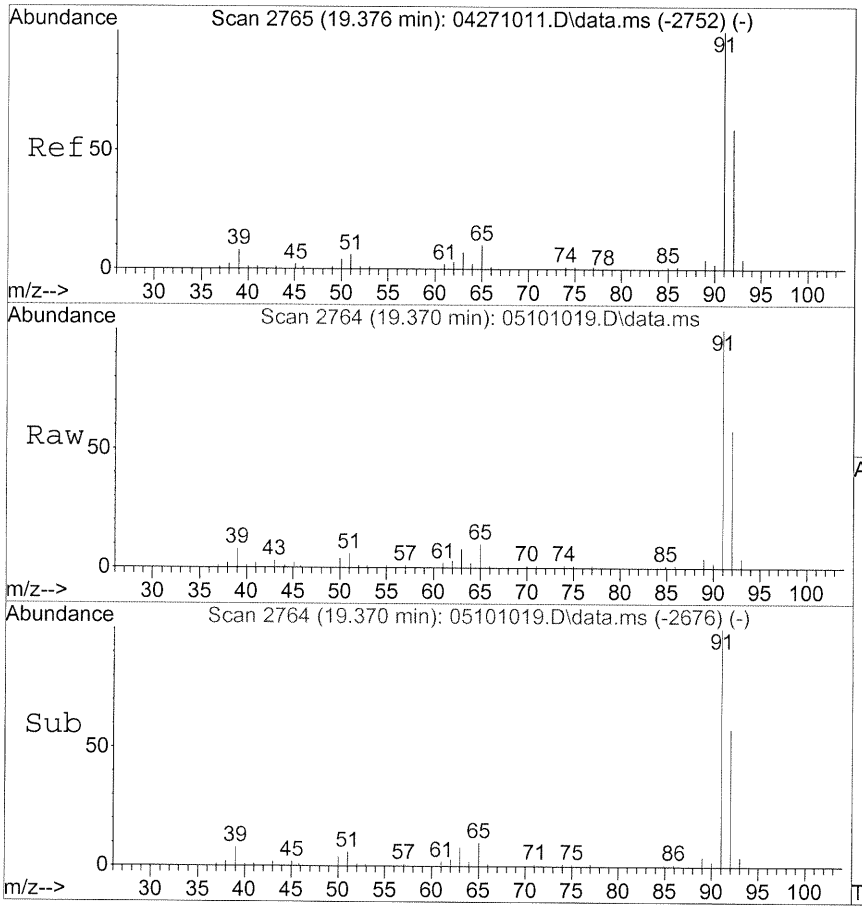


#53
4-Methyl-2-pentanone
Concen: 0.10 ng
RT: 18.08 min Scan# 2539
Delta R.T. -0.011 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 58 Resp: 1964

Ion	Ratio	Lower	Upper
58	100		
43	347.0	207.1	310.7#
85	48.1	31.4	47.2#

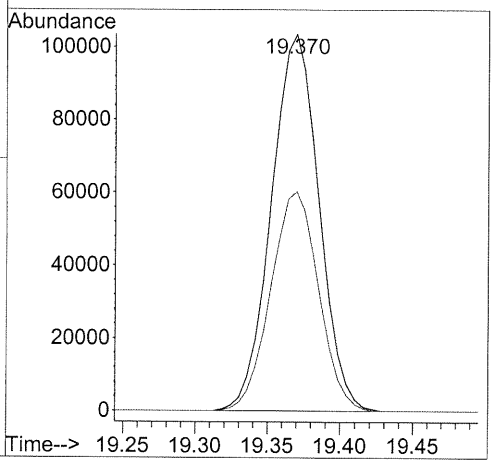


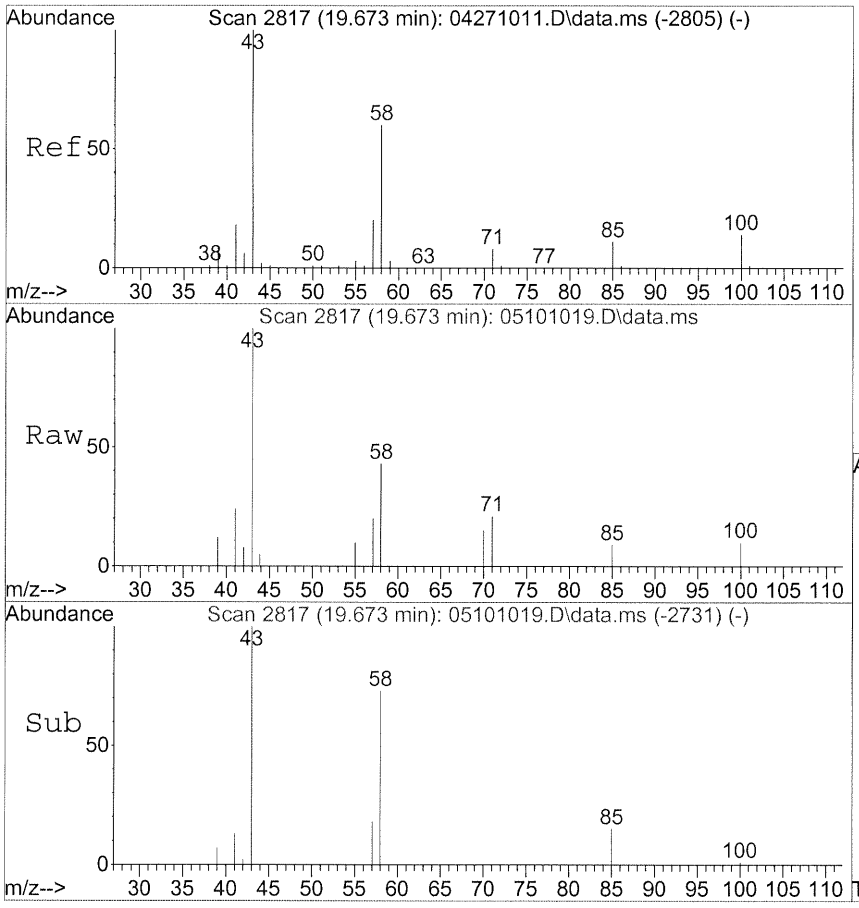


#58
Toluene
Concen: 2.22 ng
RT: 19.37 min Scan# 2764
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 91 Resp: 235860

Ion	Ratio	Lower	Upper
91	100		
92	58.6	37.6	77.6

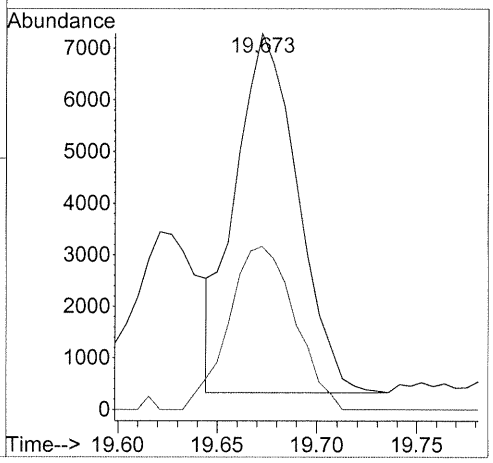


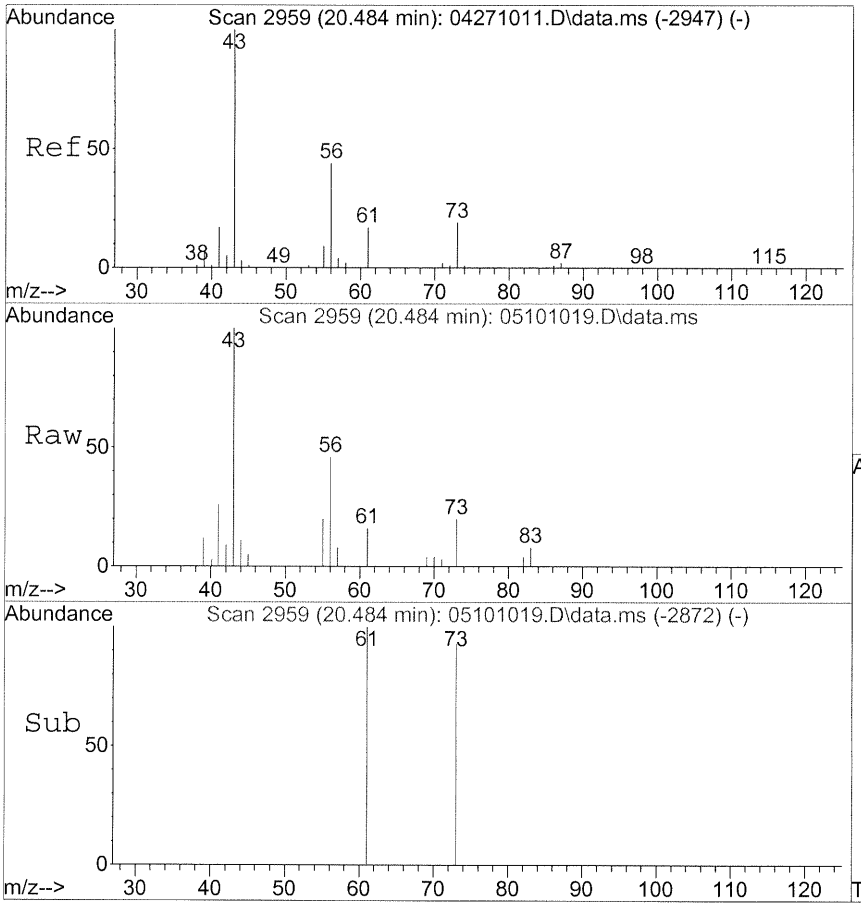


#59
2-Hexanone
Concen: 0.34 ng
RT: 19.67 min Scan# 2817
Delta R.T. -0.011 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 43 Resp: 15201

Ion	Ratio	Lower	Upper
43	100		
58	48.1	33.3	73.3

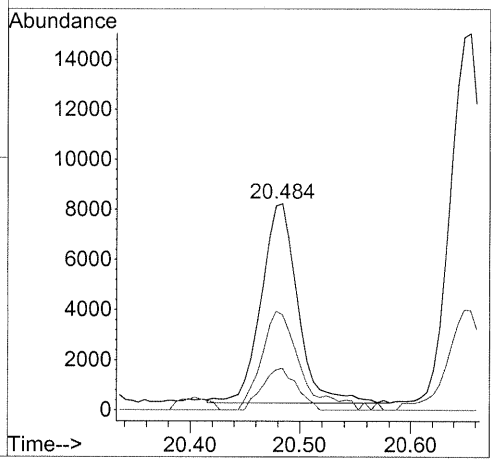


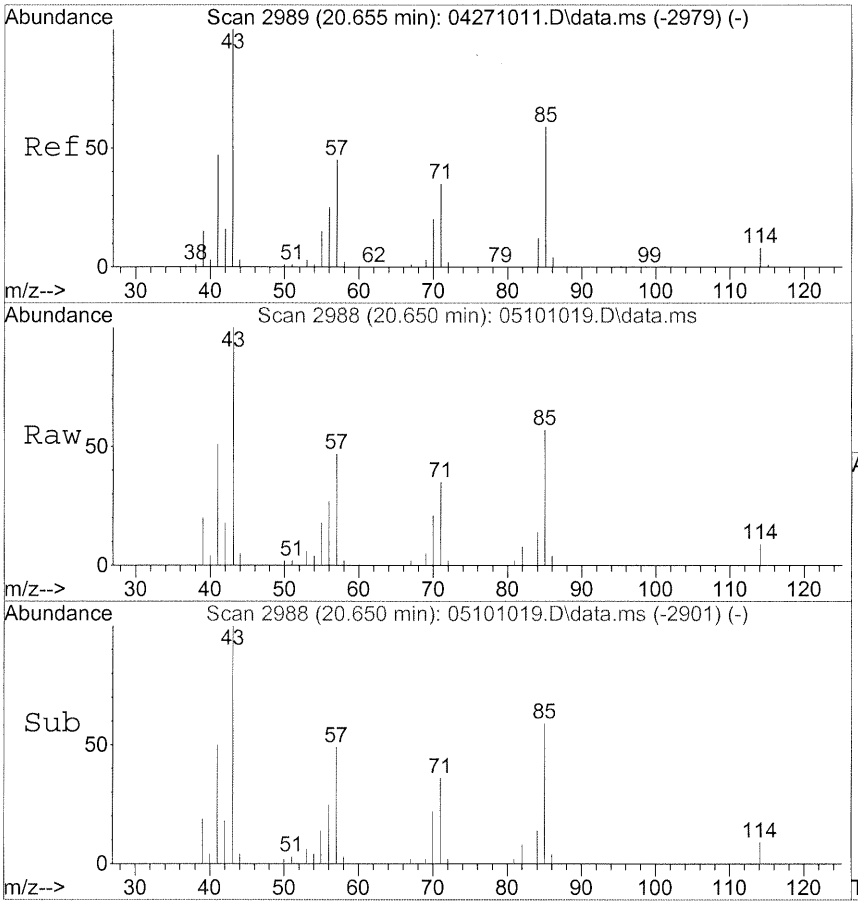


#62
n-Butyl Acetate
Concen: 0.36 ng
RT: 20.48 min Scan# 2959
Delta R.T. -0.006 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 43 Resp: 18486

Ion	Ratio	Lower	Upper
43	100		
56	51.3	19.7	59.7
73	19.5	0.0	34.2

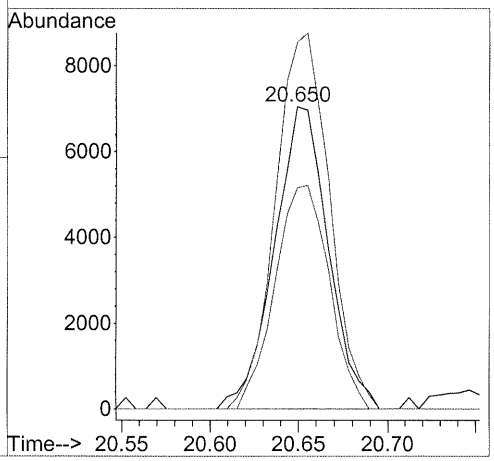


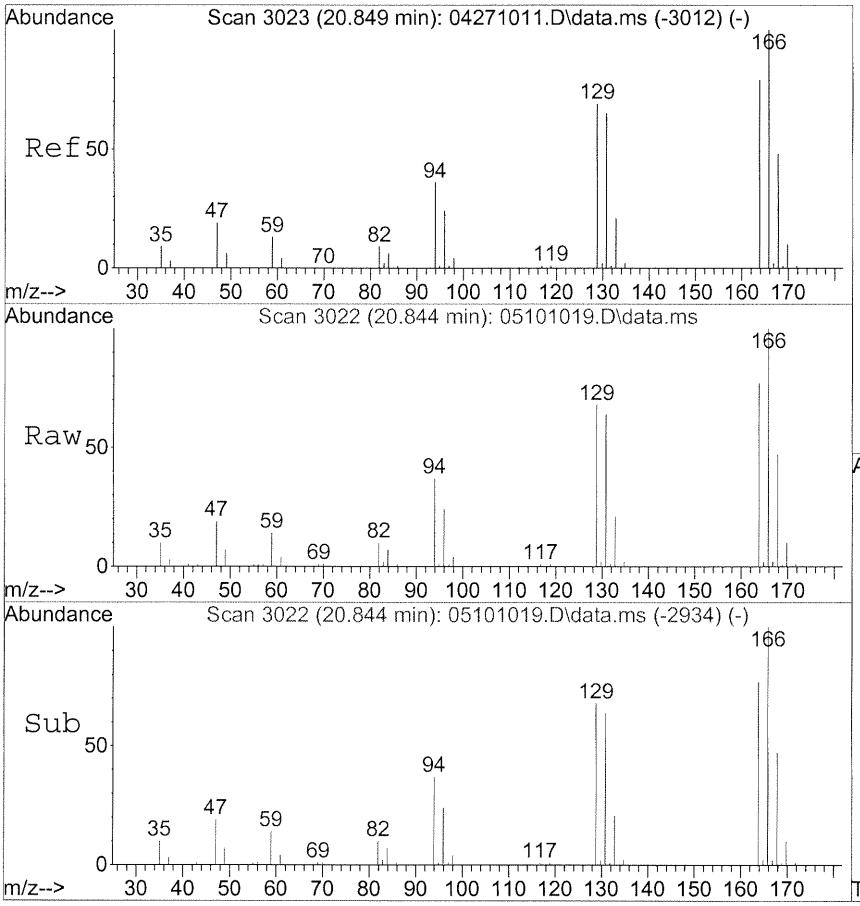


#63
n-Octane
Concen: 0.78 ng
RT: 20.65 min Scan# 2988
Delta R.T. -0.006 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 57 Resp: 14772

Ion	Ratio	Lower	Upper
57	100		
85	124.6	81.8	122.8#
71	74.6	55.0	82.6

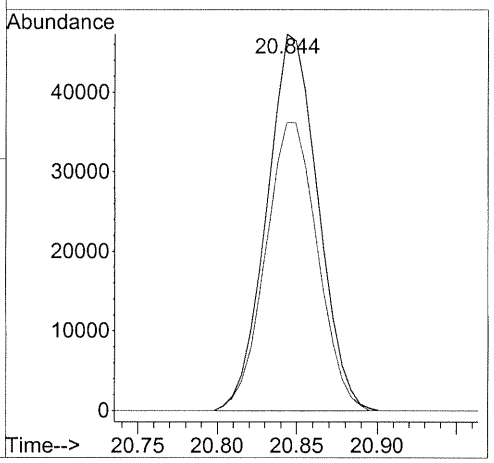


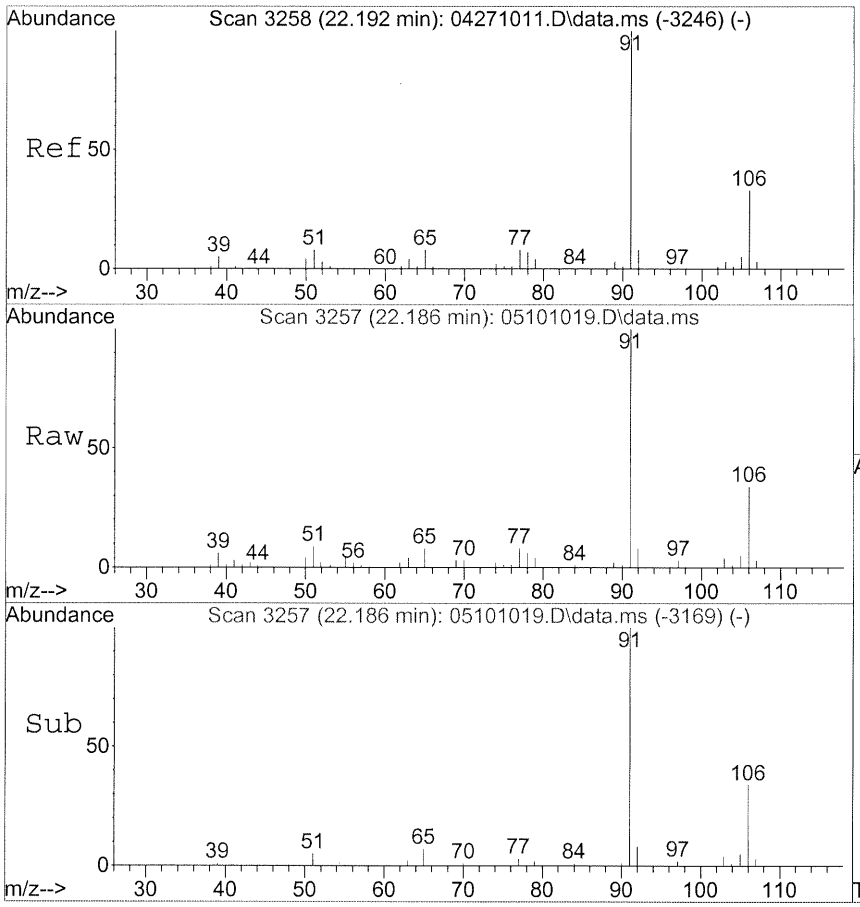


#64
Tetrachloroethene
Concen: 3.17 ng
RT: 20.84 min Scan# 3022
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:166 Resp: 105222

Ion	Ratio	Lower	Upper
166	100		
164	77.7	58.4	98.4

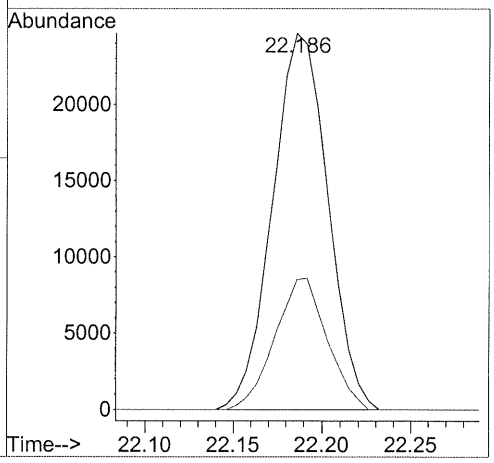


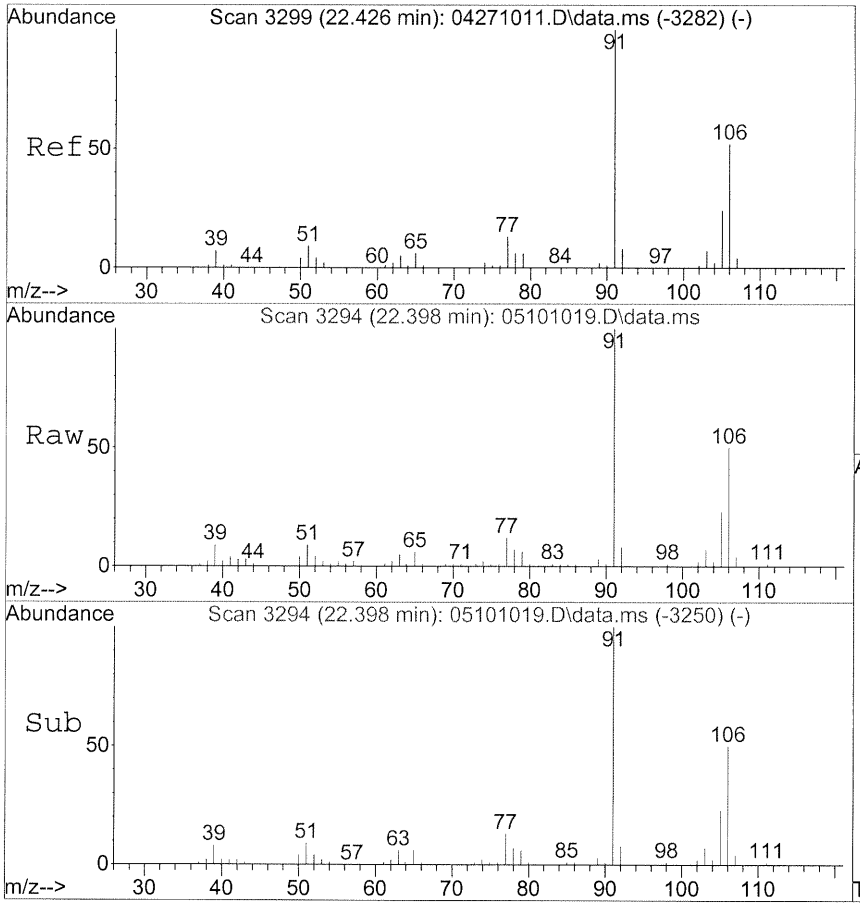


#66
Ethylbenzene
Concen: 0.45 ng
RT: 22.19 min Scan# 3257
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 91 Resp: 52880

Ion	Ratio	Lower	Upper
91	100		
106	32.9	9.8	49.8

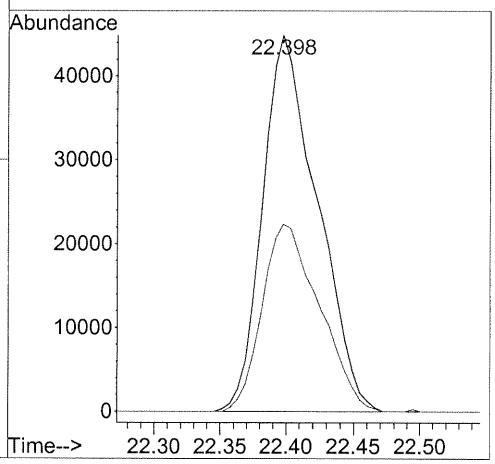


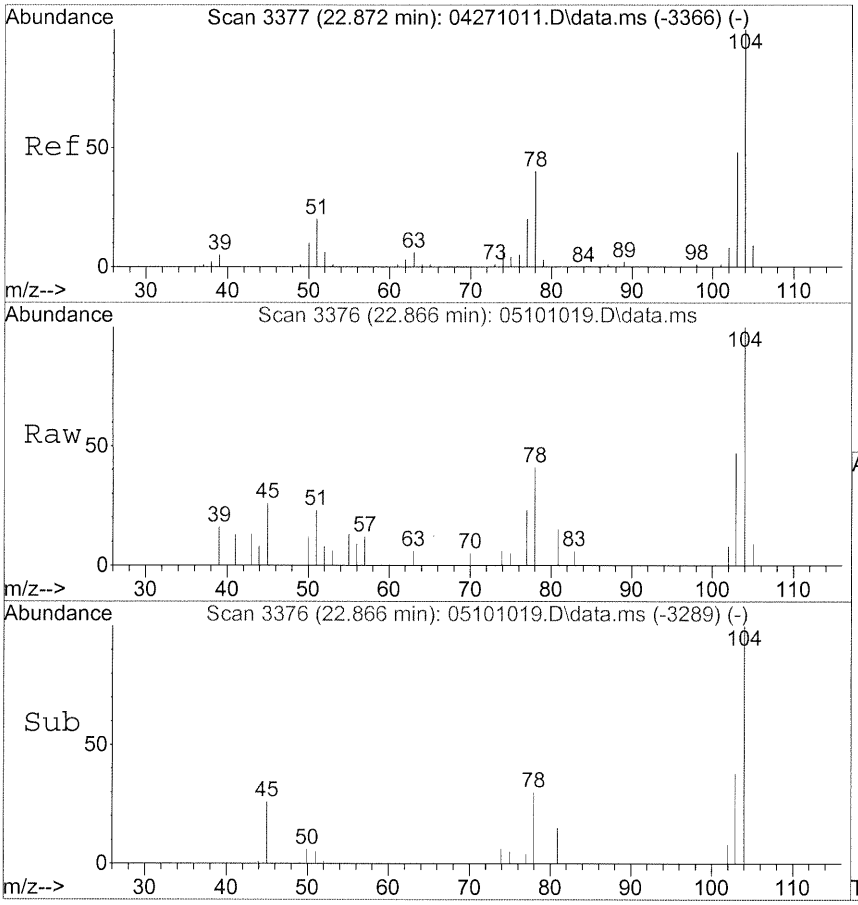


#67
m- & p-Xylenes
Concen: 1.39 ng
RT: 22.40 min Scan# 3294
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 91 Resp: 127960

Ion	Ratio	Lower	Upper
91	100		
106	52.0	26.8	66.8

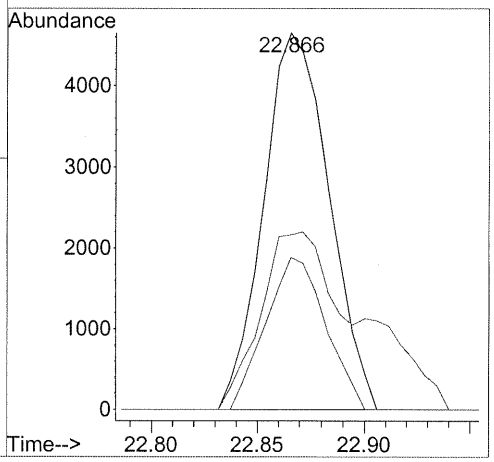


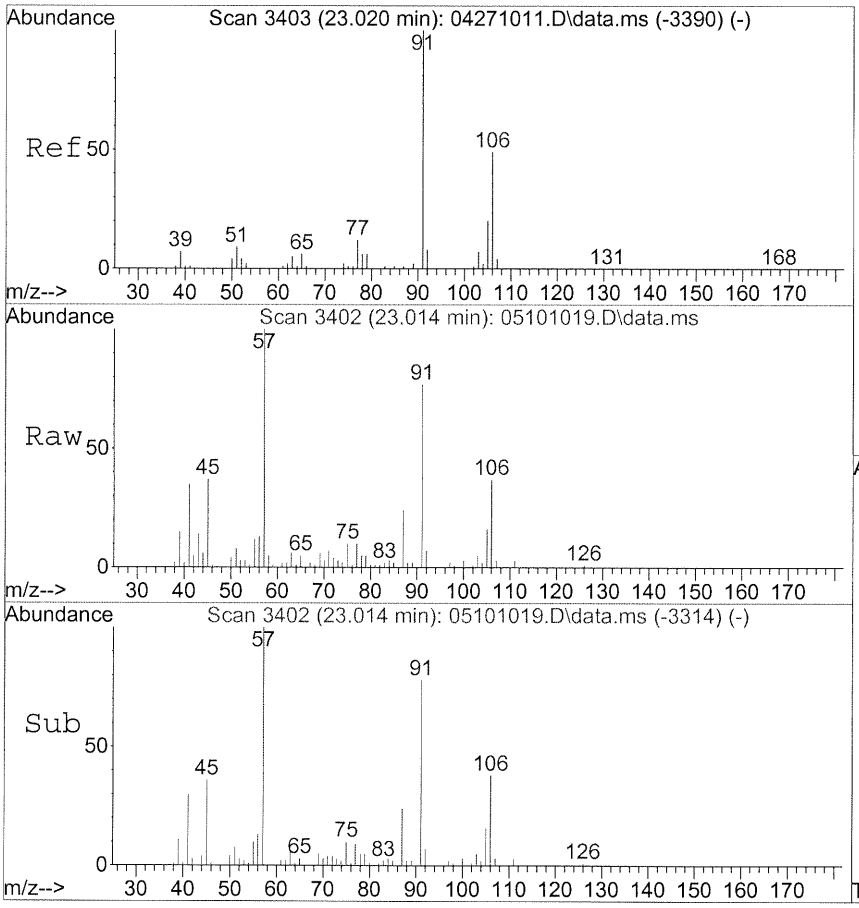


#69
Styrene
Concen: 0.14 ng
RT: 22.87 min Scan# 3376
Delta R.T. -0.006 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:104 Resp: 9896

Ion	Ratio	Lower	Upper
104	100		
78	37.1	26.1	66.1
103	72.0	28.7	68.7#

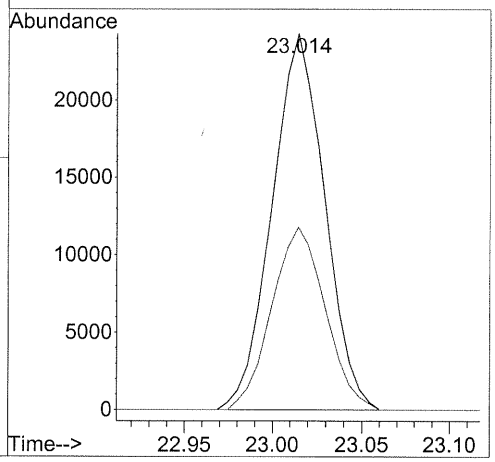


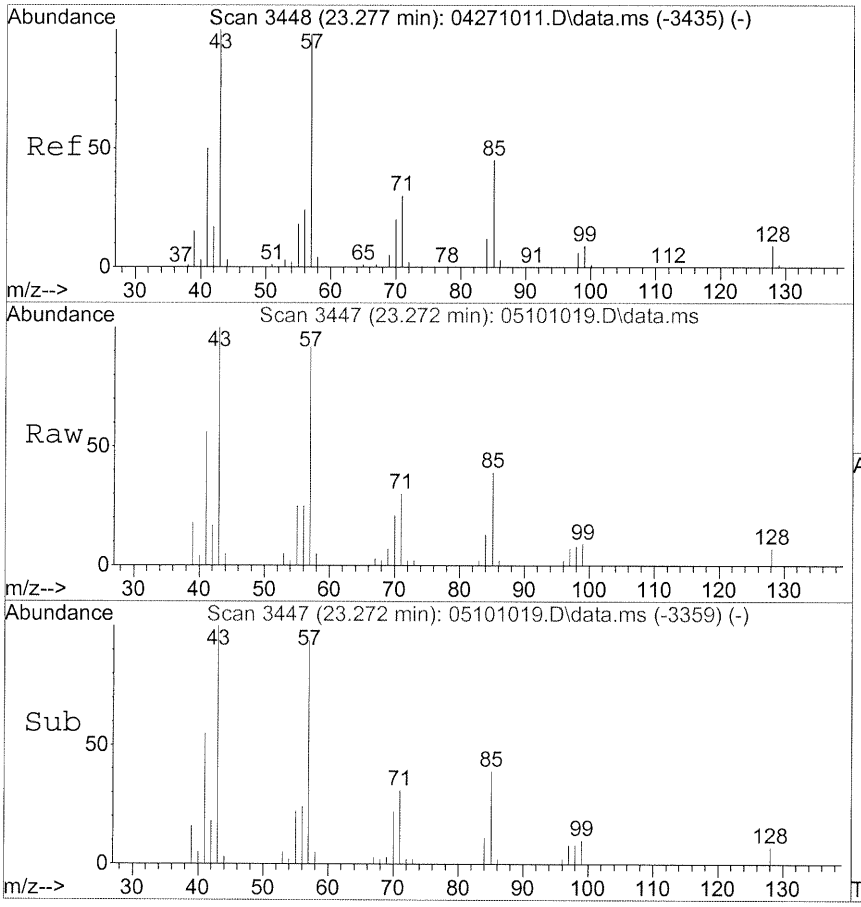


#70
o-Xylene
Concen: 0.53 ng
RT: 23.01 min Scan# 3402
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 91 Resp: 49927

Ion	Ratio	Lower	Upper
91	100		
106	49.3	24.4	64.4

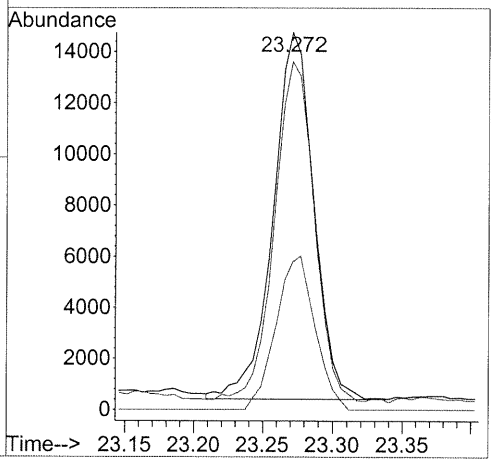


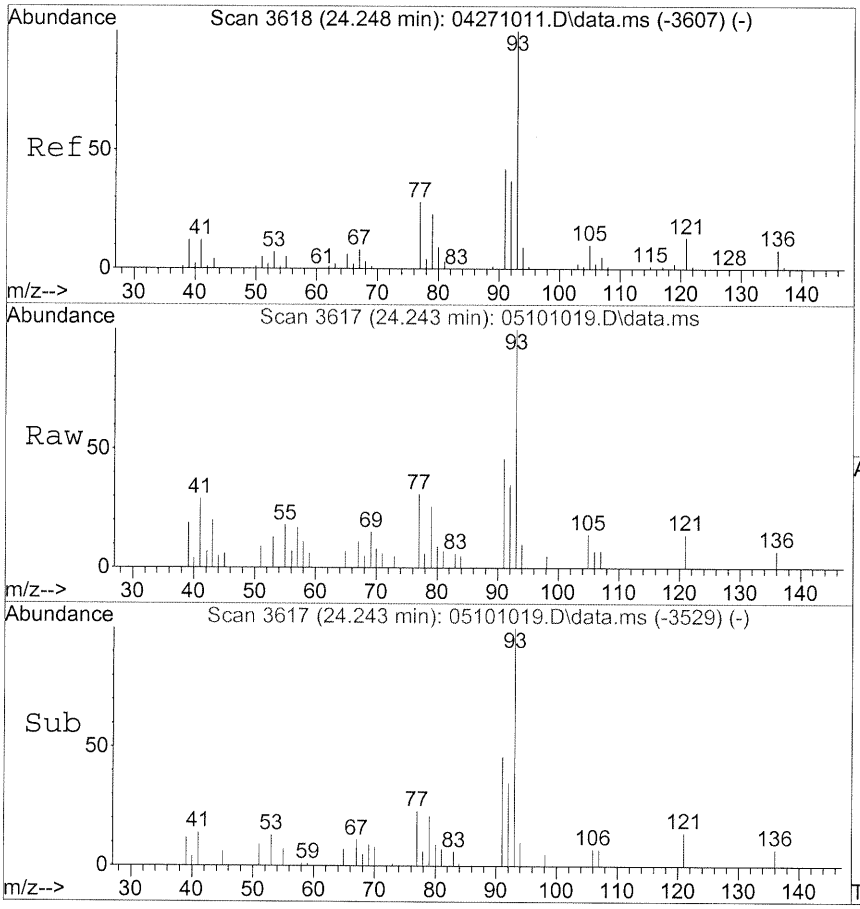


#71
n-Nonane
Concen: 0.71 ng
RT: 23.27 min Scan# 3447
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 43 Resp: 29106

Ion	Ratio	Lower	Upper
43	100		
57	90.2	65.6	105.6
85	40.1	9.9	49.9

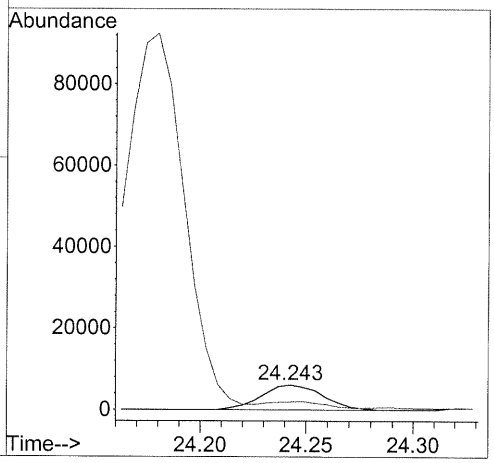


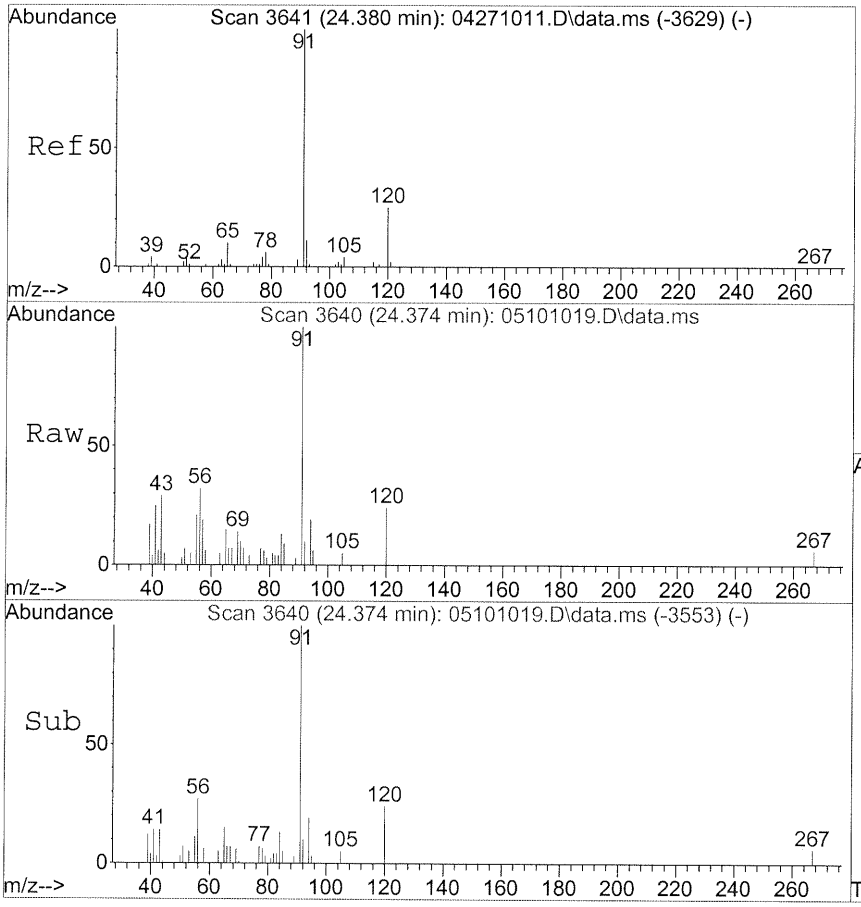


#75
alpha-Pinene
Concen: 0.20 ng
RT: 24.24 min Scan# 3617
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 93 Resp: 11996

Ion	Ratio	Lower	Upper
93	100		
77	42.4	12.3	52.3

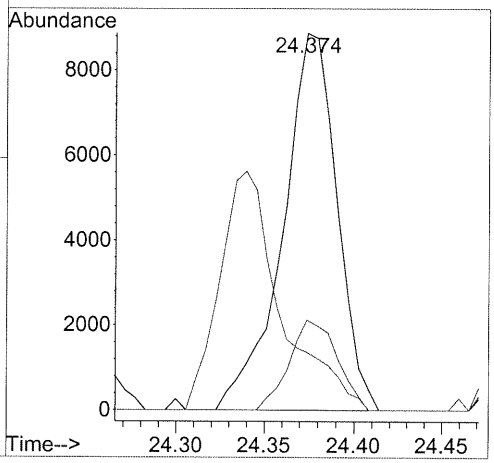


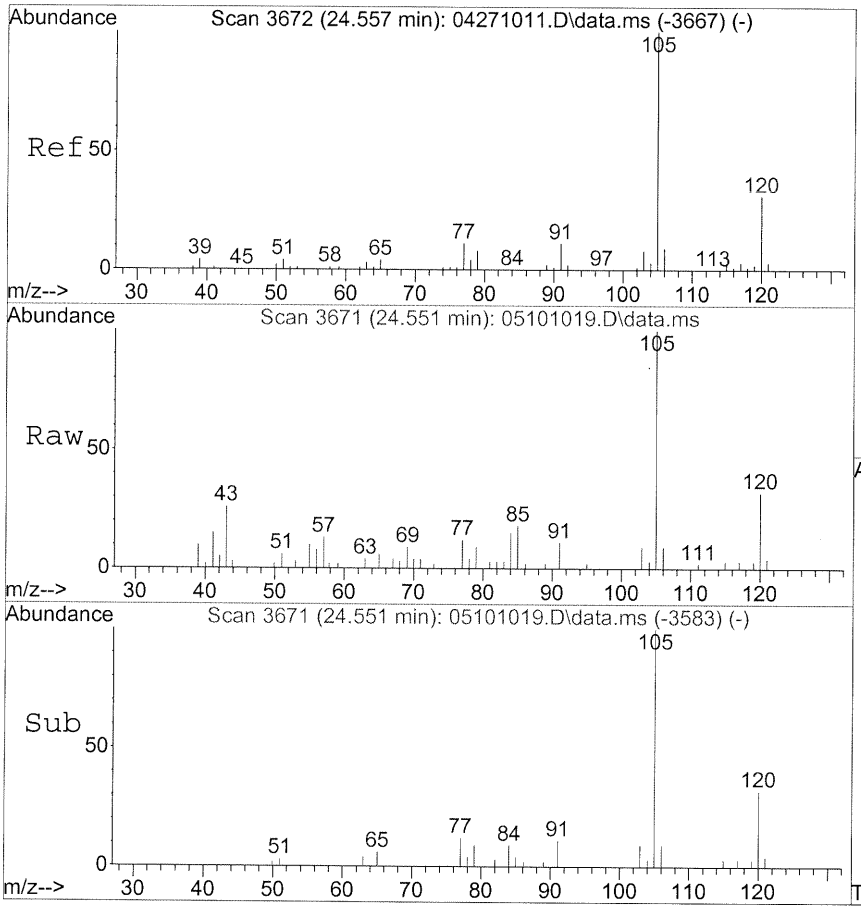


#76
n-Propylbenzene
Concen: 0.12 ng
RT: 24.37 min Scan# 3640
Delta R.T. -0.006 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 91 Resp: 18517

Ion	Ratio	Lower	Upper
91	100		
120	21.1	0.9	40.9
65	0.0	0.0	31.2

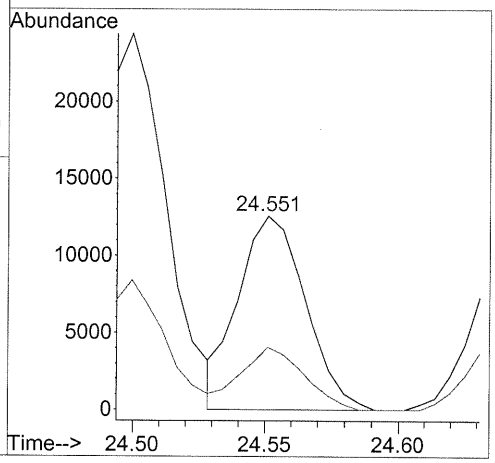


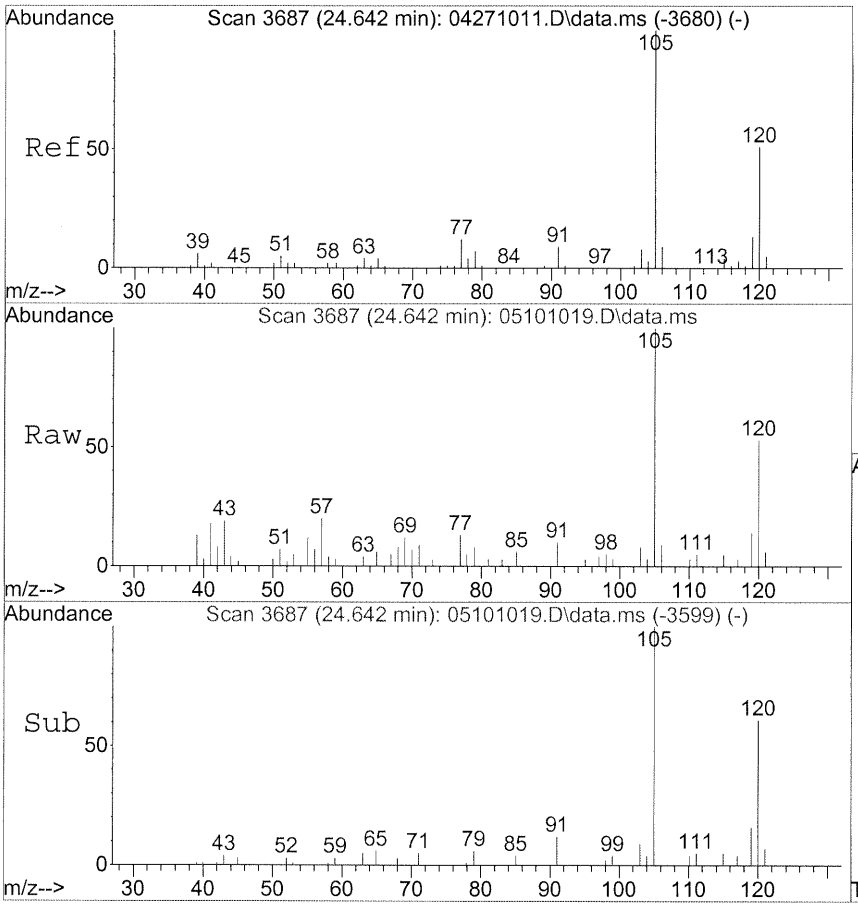


#78
4-Ethyltoluene
Concen: 0.19 ng
RT: 24.55 min Scan# 3671
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:105 Resp: 22181

Ion	Ratio	Lower	Upper
105	100		
120	30.3	8.2	48.2

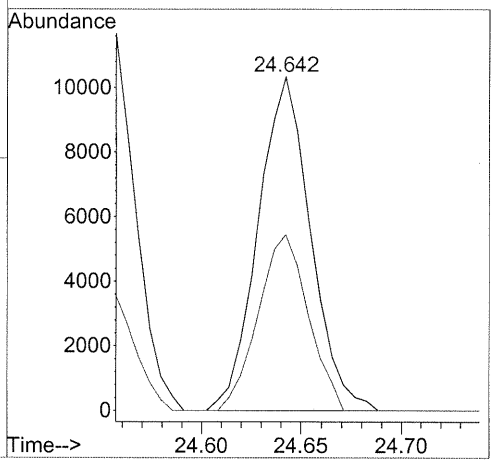


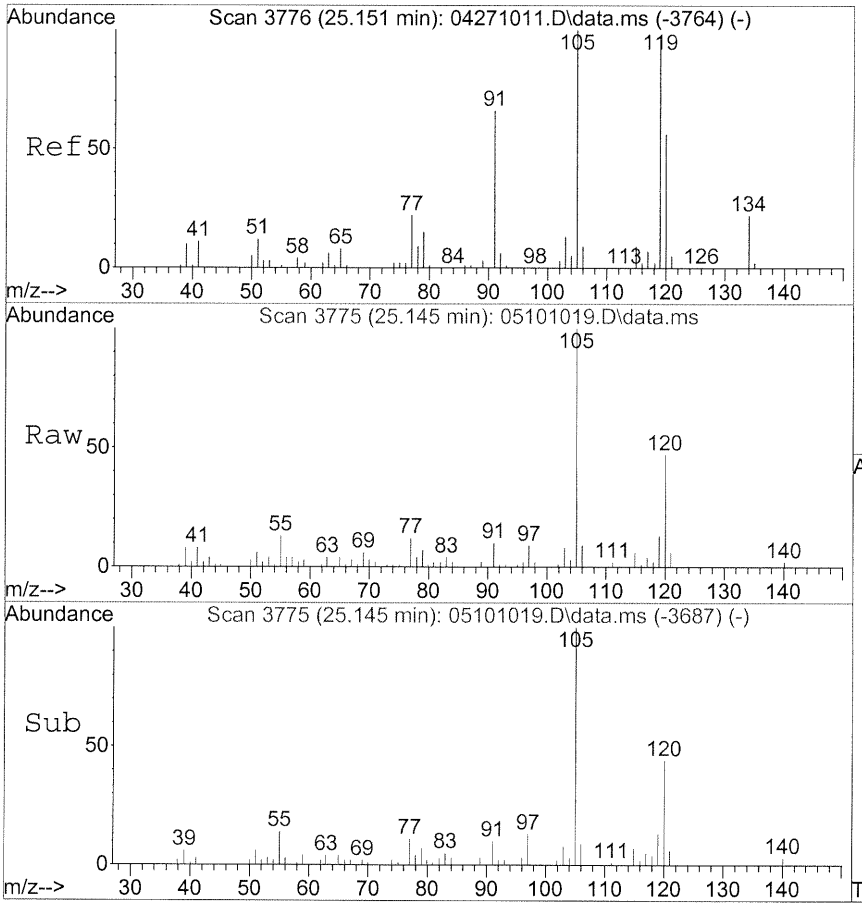


#79
1,3,5-Trimethylbenzene
Concen: 0.20 ng
RT: 24.64 min Scan# 3687
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:105 Resp: 18919

Ion	Ratio	Lower	Upper
105	100		
120	50.1	26.2	66.2

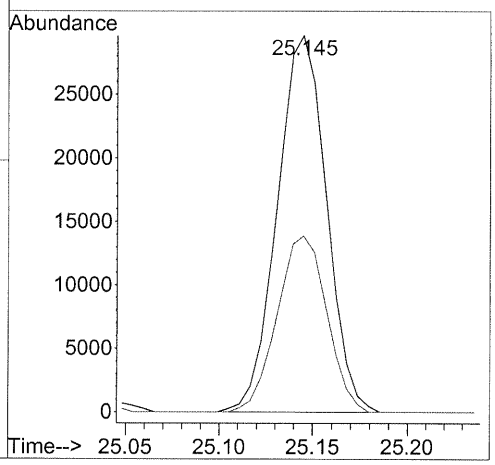


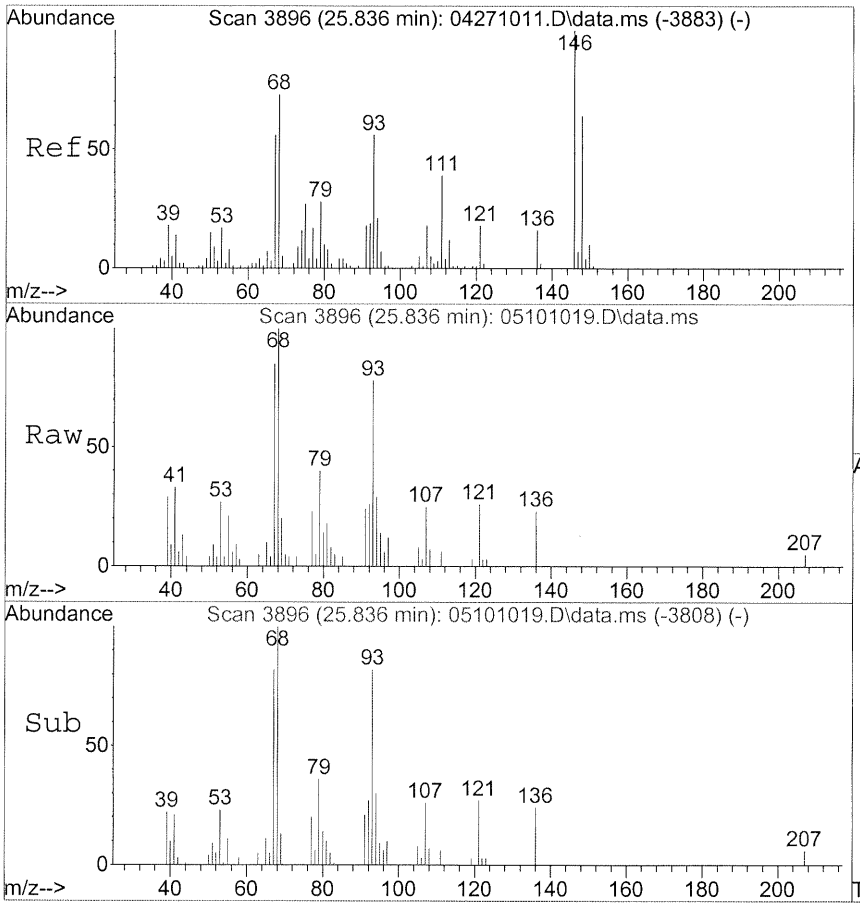


#82
1,2,4-Trimethylbenzene
Concen: 0.54 ng
RT: 25.15 min Scan# 3775
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:105 Resp: 53637

Ion	Ratio	Lower	Upper
105	100		
120	47.2	30.1	70.1

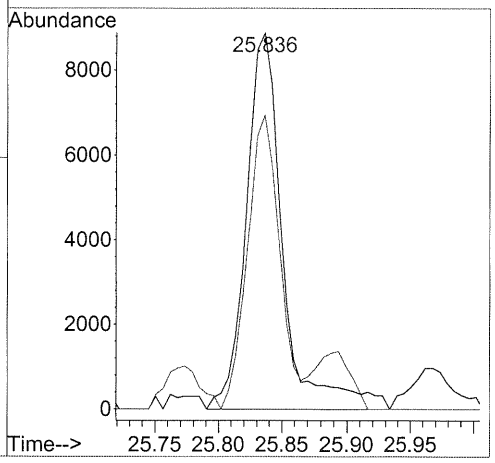


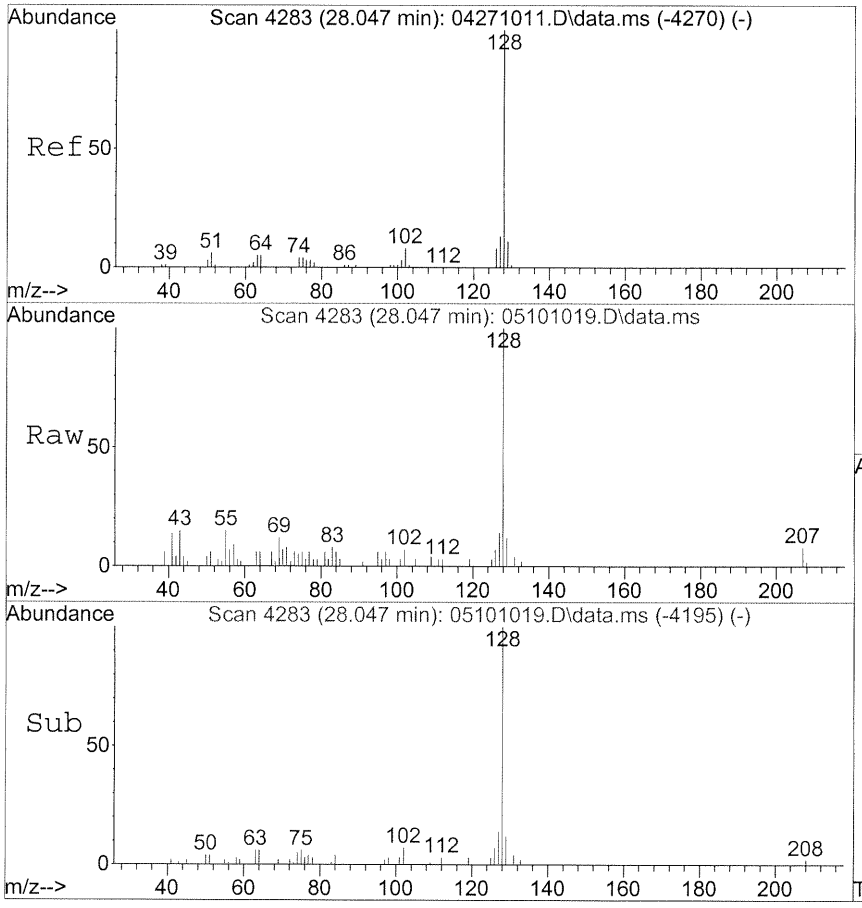


#91
d-Limonene
Concen: 0.51 ng
RT: 25.84 min Scan# 3896
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion: 68 Resp: 17810

Ion	Ratio	Lower	Upper
68	100		
93	70.3	42.0	82.0

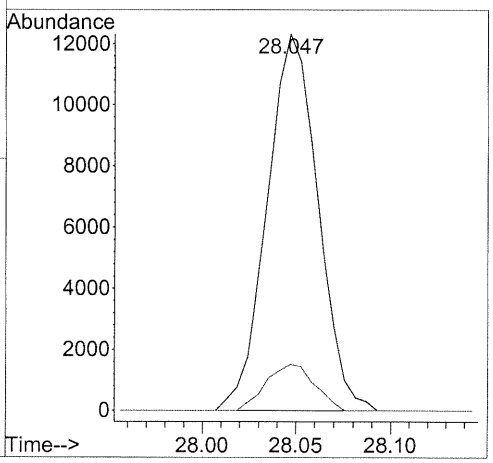




#95
Naphthalene
Concen: 0.18 ng
RT: 28.05 min Scan# 4283
Delta R.T. 0.000 min
Lab File: 05101019.D
Acq: 11 May 2010 00:59

Tgt Ion:128 Resp: 23170

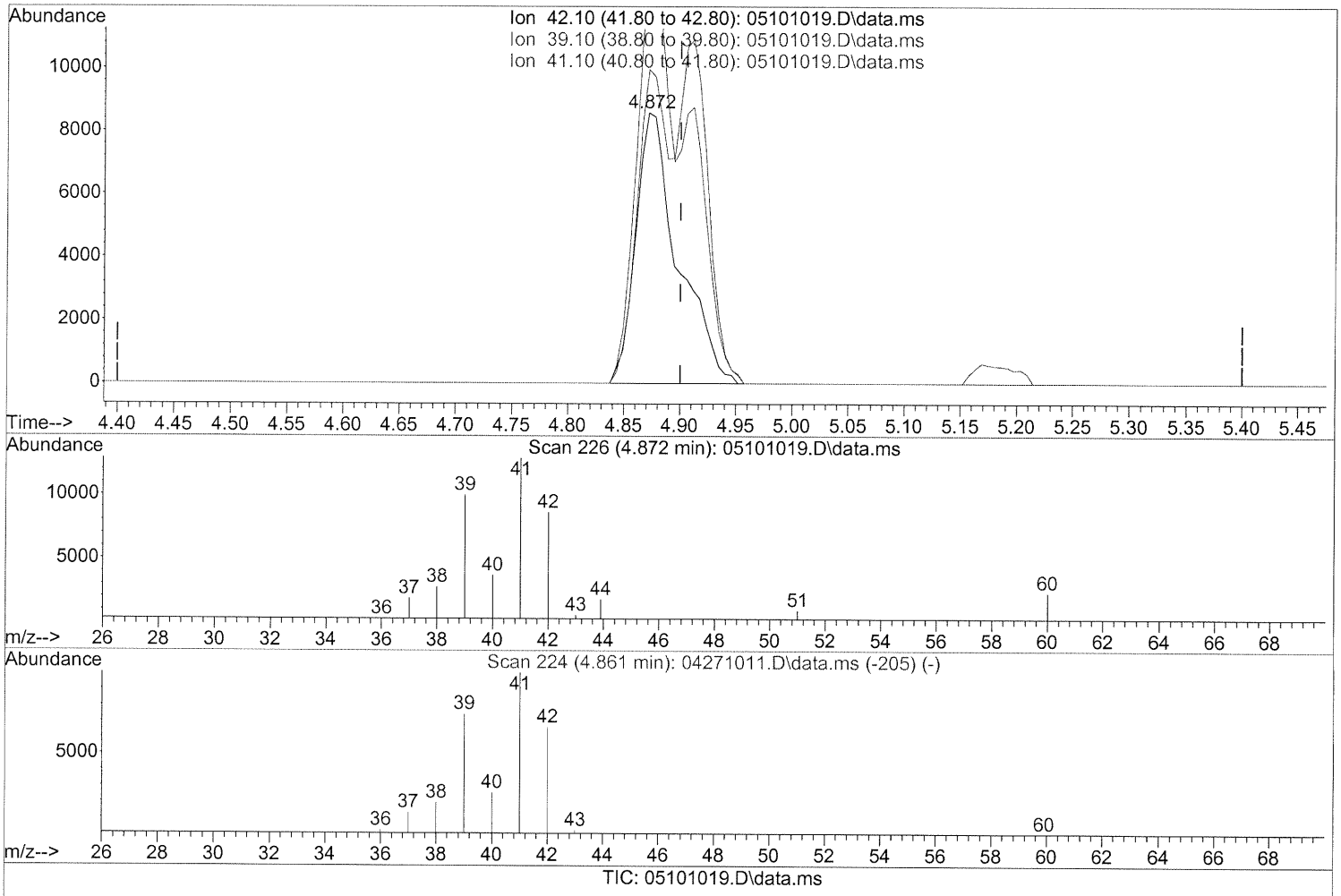
Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	31.1



Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101019.D\data.ms

(2) Propene (T)

4.872min (-0.029) 1.07ng

response 22469

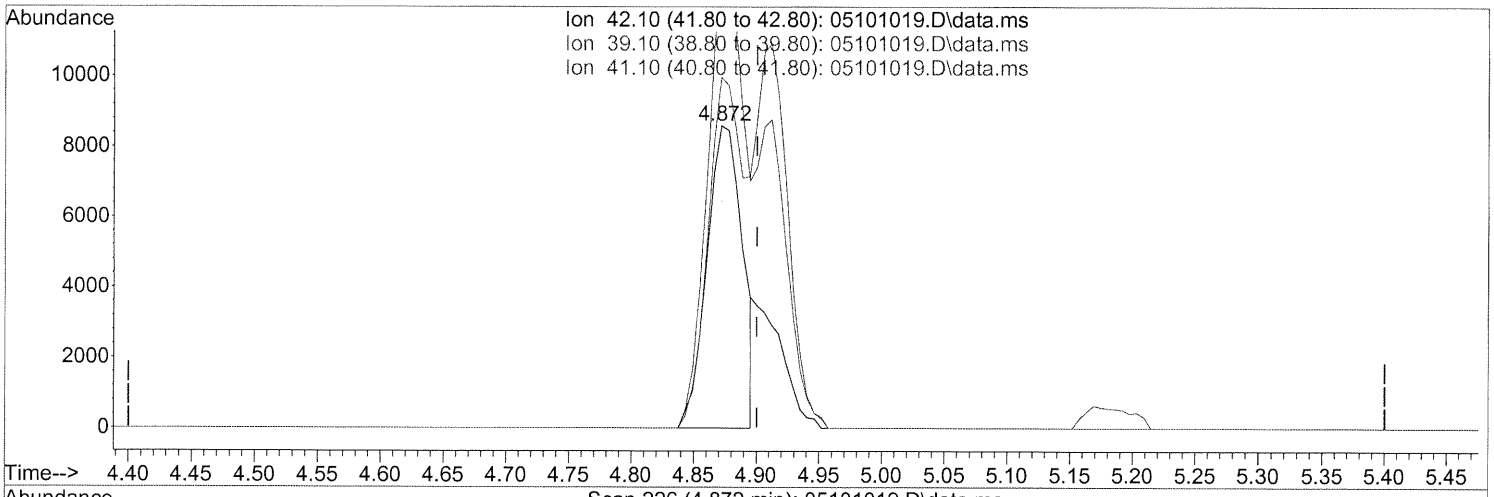
Ion	Exp%	Act%
42.10	100	100
39.10	112.20	91.76#
41.10	153.90	184.17#
0.00	0.00	0.00

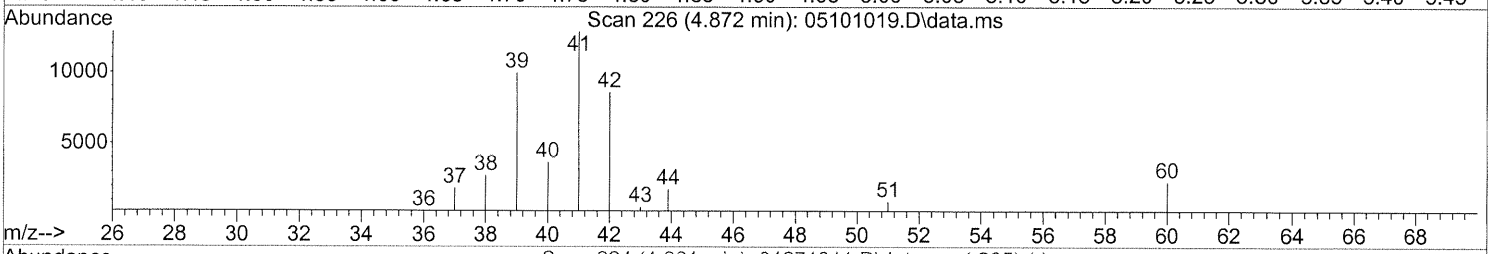
SH

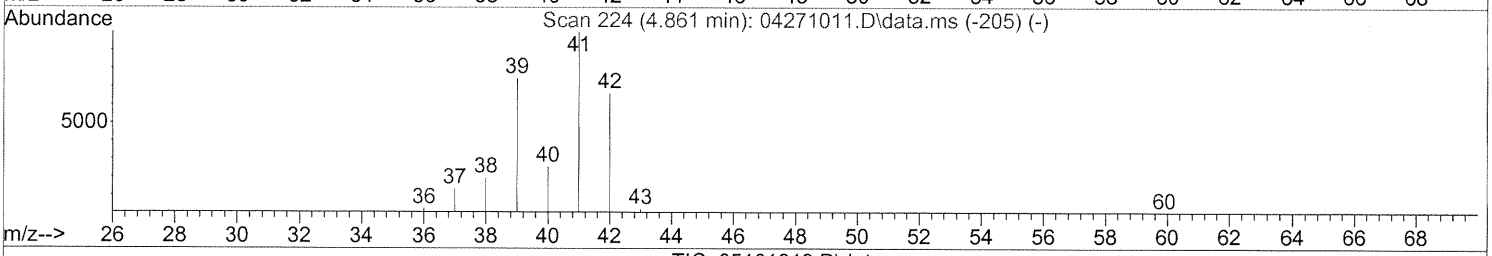
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101019.D\data.ms

(2) Propene (T)

4.872min (-0.029) 0.81ng m

response 16851

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	122.35
41.10	153.90	245.58#
0.00	0.00	0.00

SH –7 IC

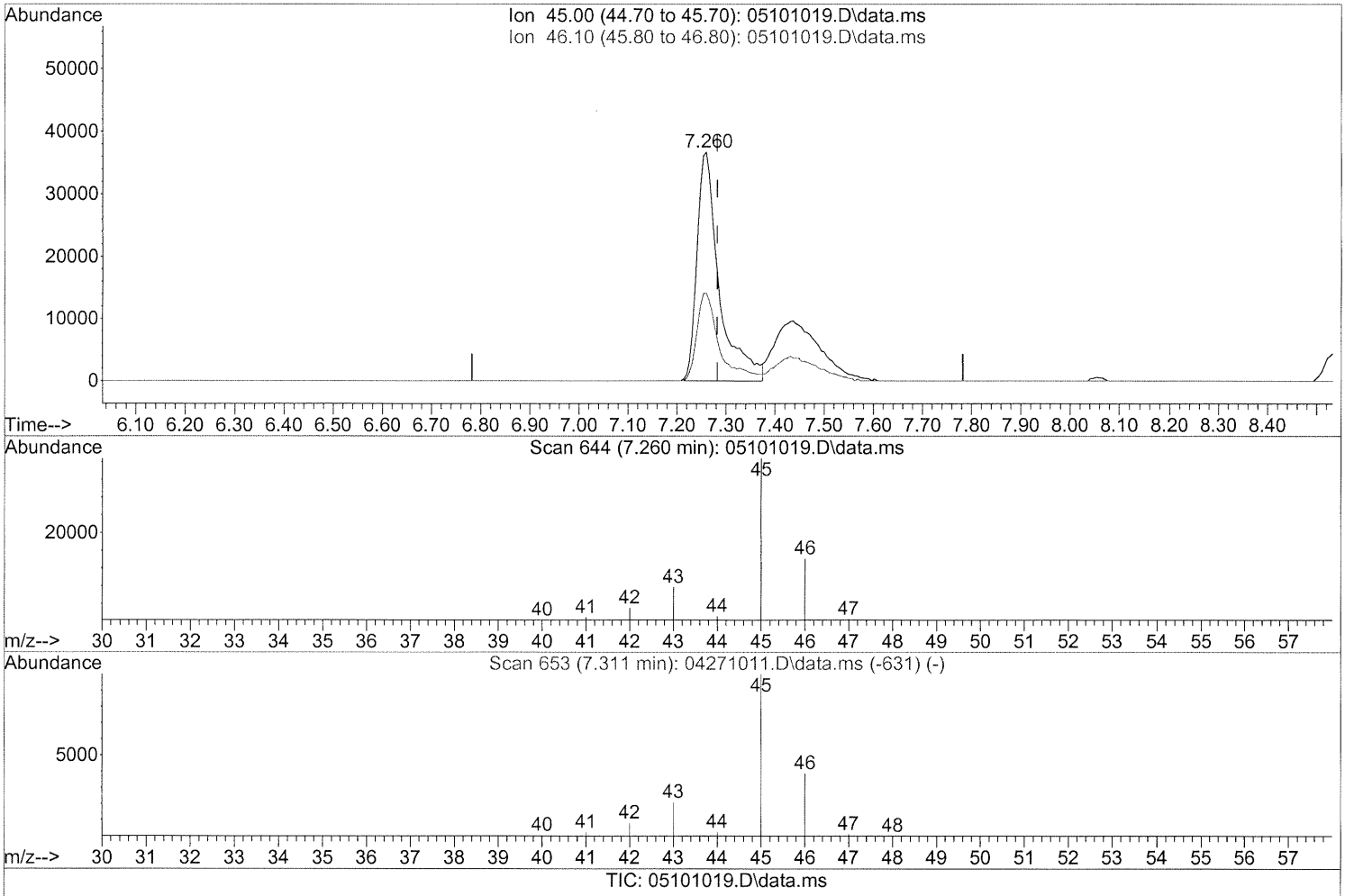
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Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101019.D\data.ms

(10) Ethanol (T)

7.260min (-0.023) 9.08ng

response 115733

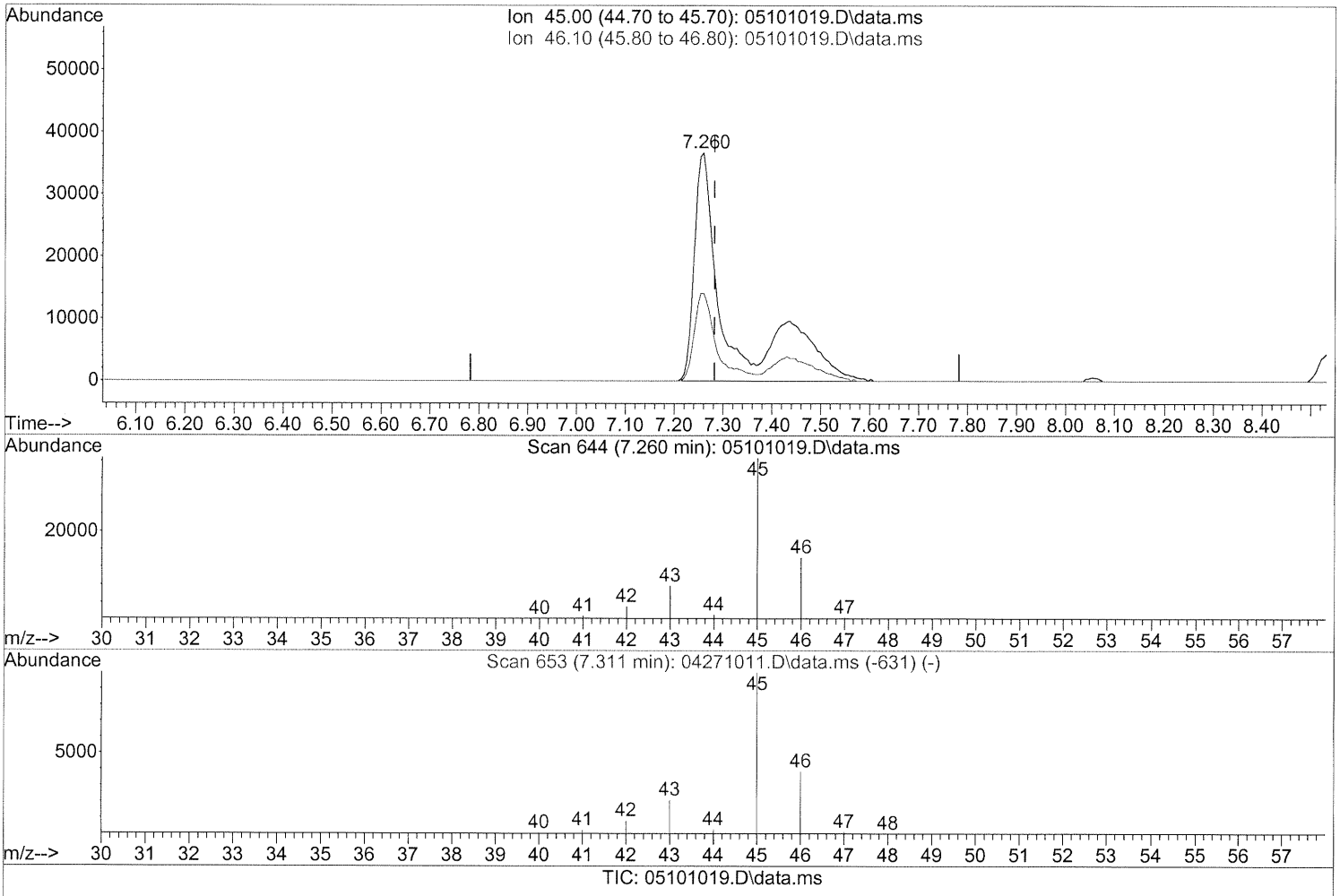
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.71
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101019.D\data.ms

(10) Ethanol (T)

7.260min (-0.023) 13.93ng m

response 177410

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	25.26
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

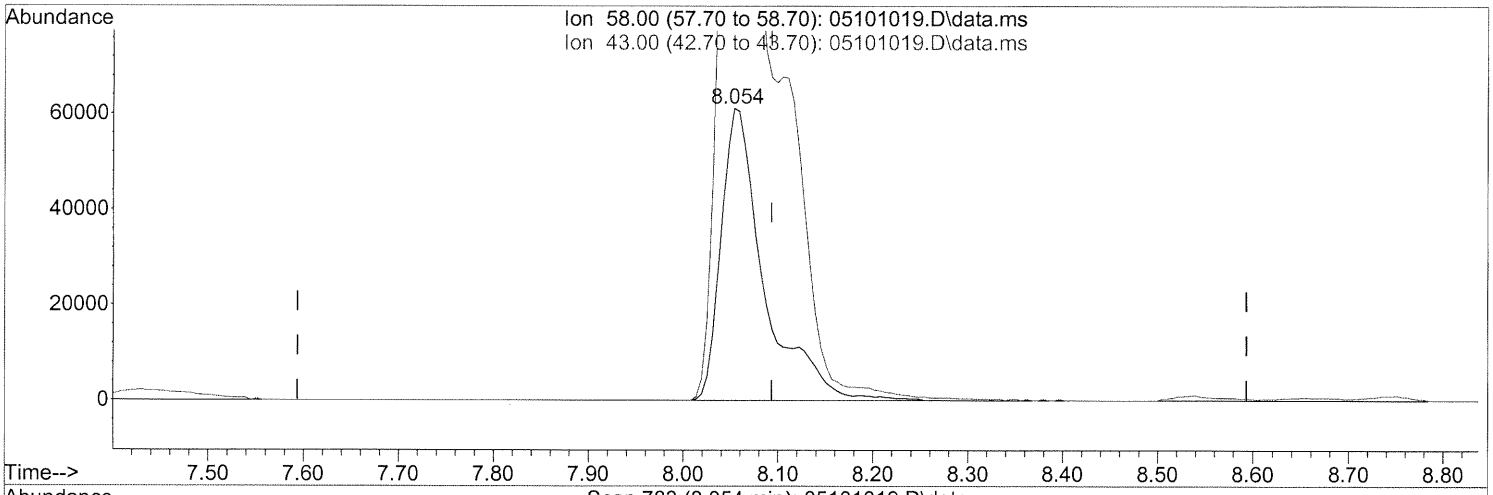
5/17/10

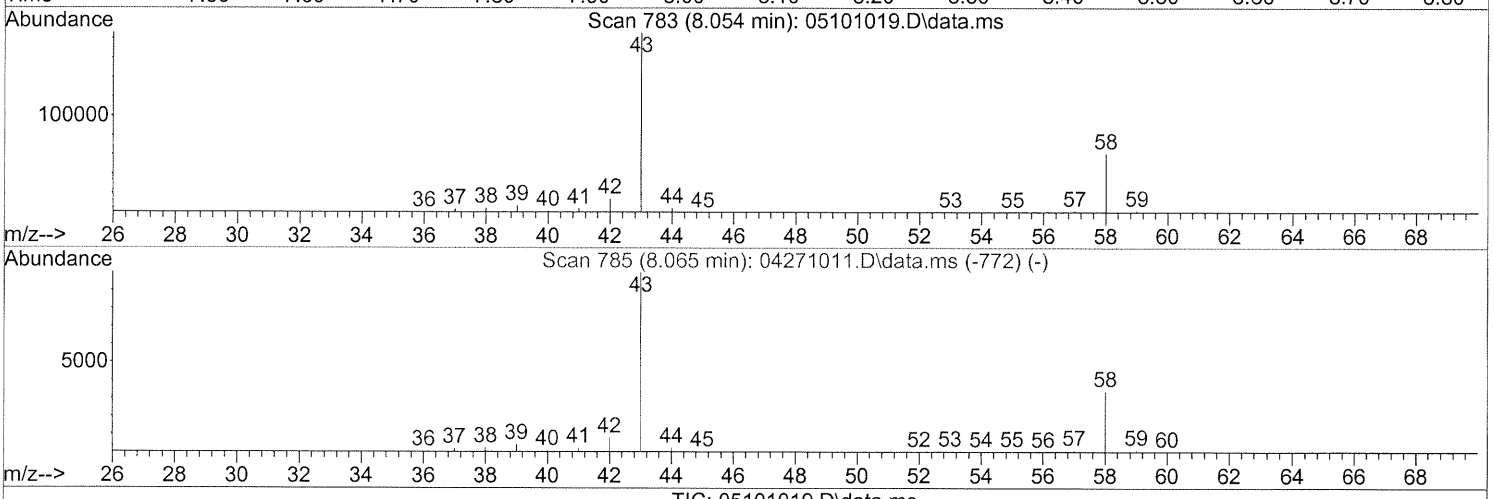
5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration





TIC: 05101019.D\data.ms

(13) Acetone (T)

8.054min (-0.040) 11.86ng

response 193057

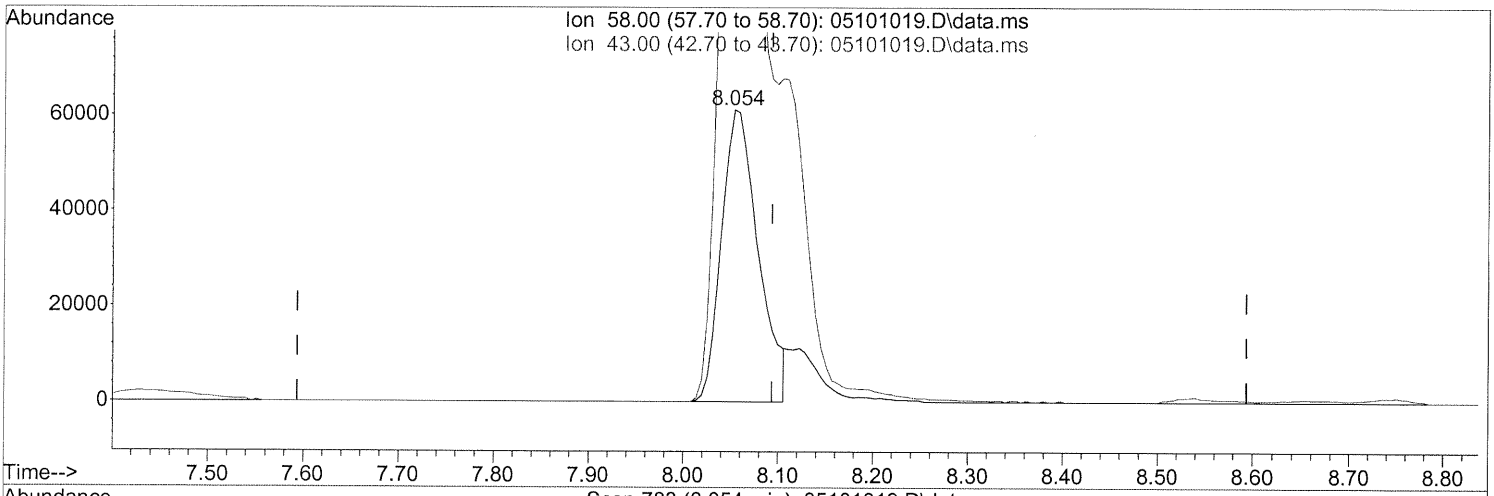
SH

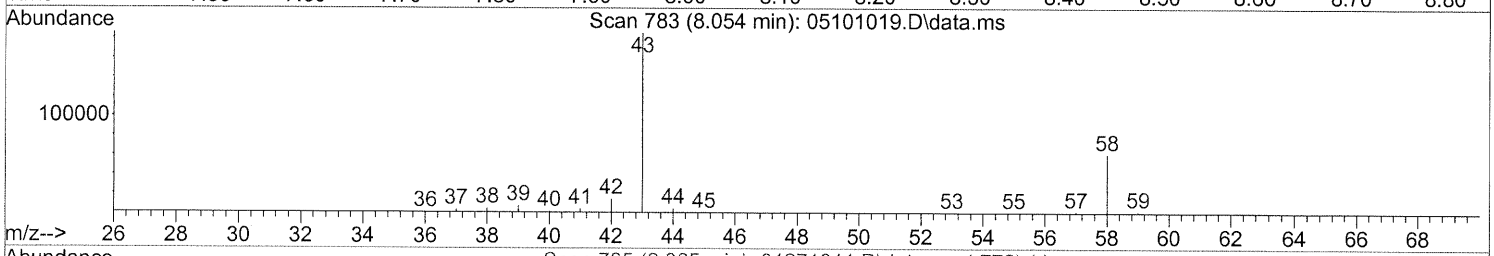
Ion	Exp%	Act%
58.00	100	100
43.00	325.00	341.51
0.00	0.00	0.00
0.00	0.00	0.00

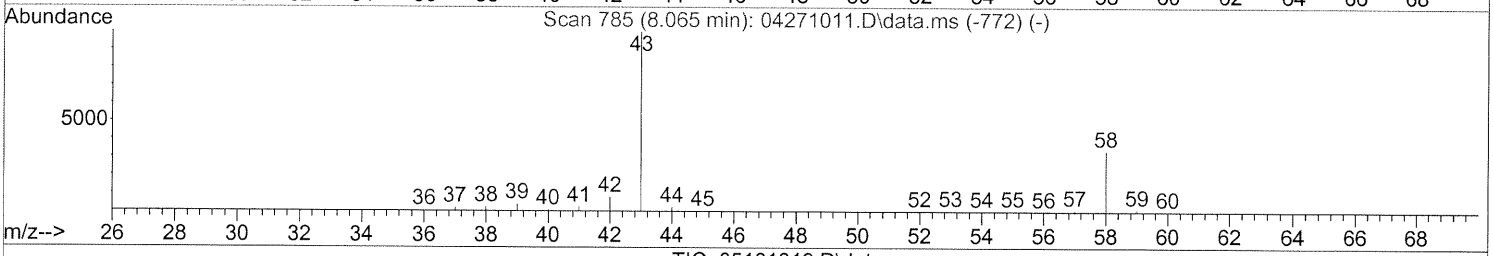
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101019.D\data.ms

(13) Acetone (T)

8.054min (-0.040) 10.12ng m

response 164757

Ion	Exp%	Act%
58.00	100	100
43.00	325.00	400.17#
0.00	0.00	0.00
0.00	0.00	0.00

SH — 7 IC

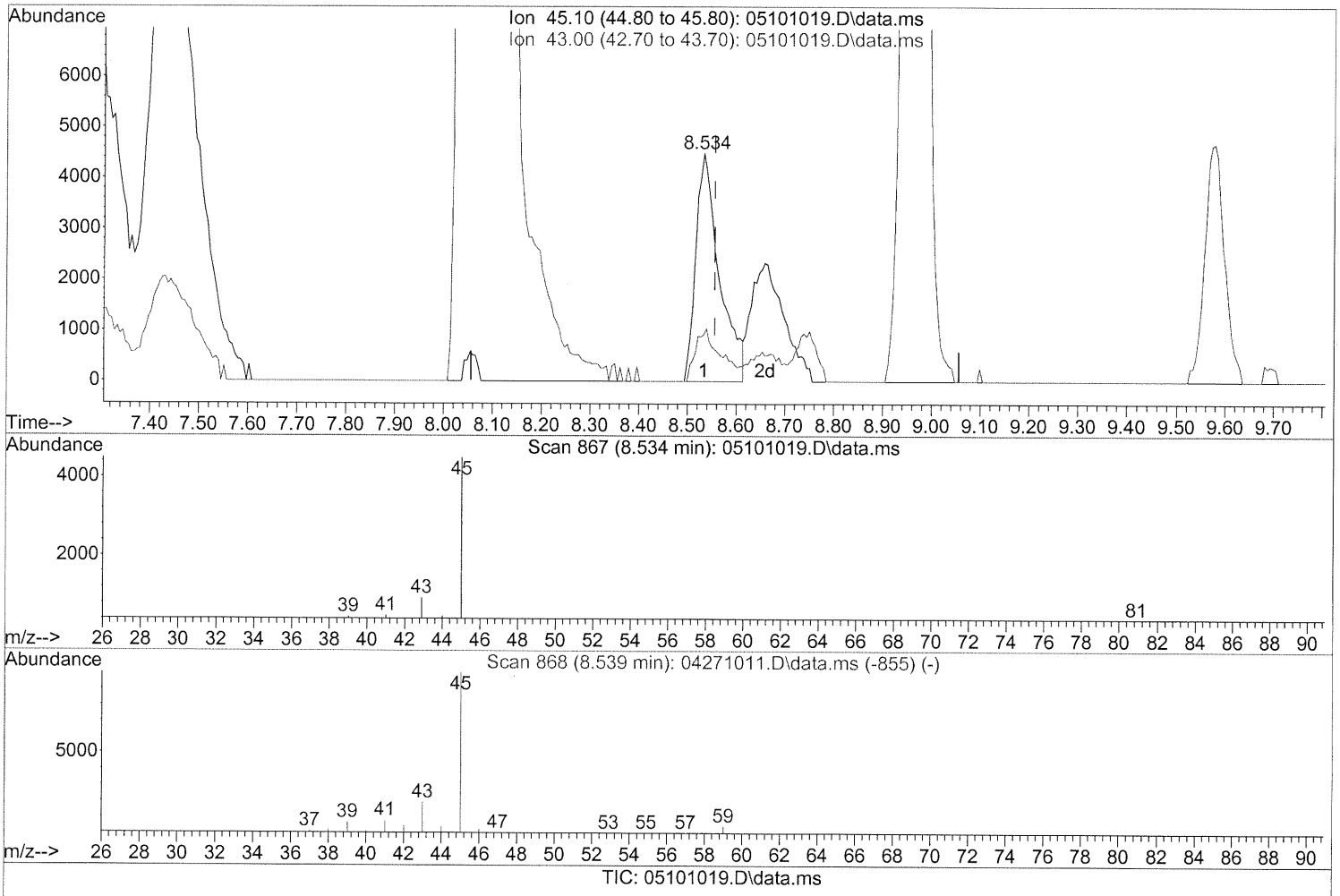
MSH 5/17/10

C - 5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 05101019.D\data.ms

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

8.534min (-0.023) 0.32ng

response 15061

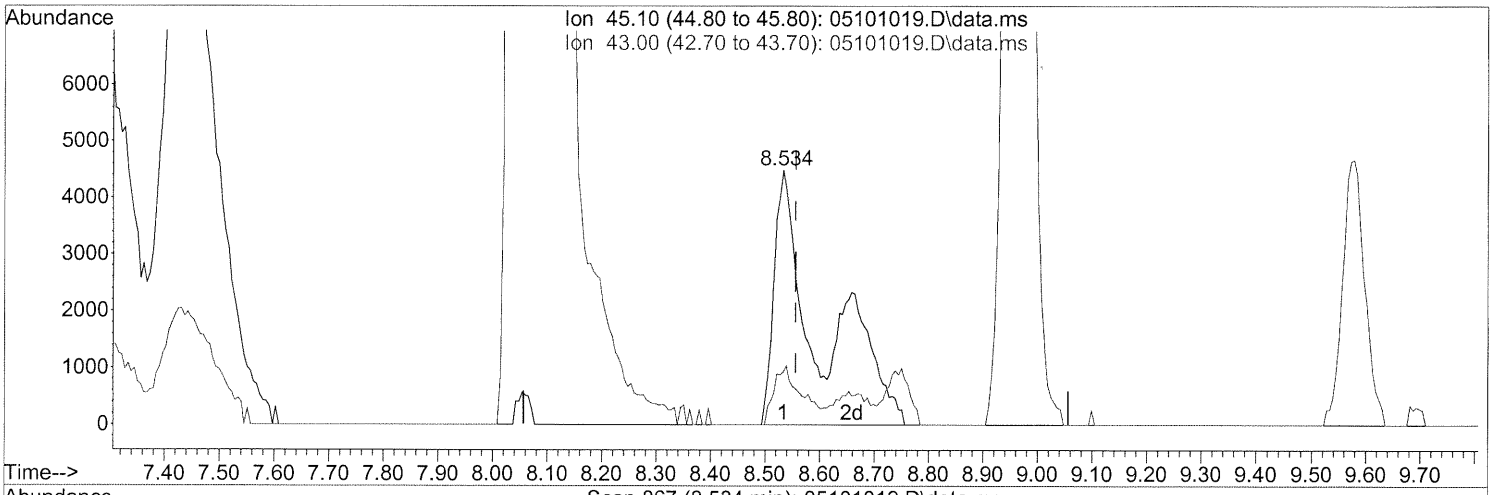
Ion	Exp%	Act%
45.10	100	100
43.00	19.20	25.37
0.00	0.00	0.00
0.00	0.00	0.00

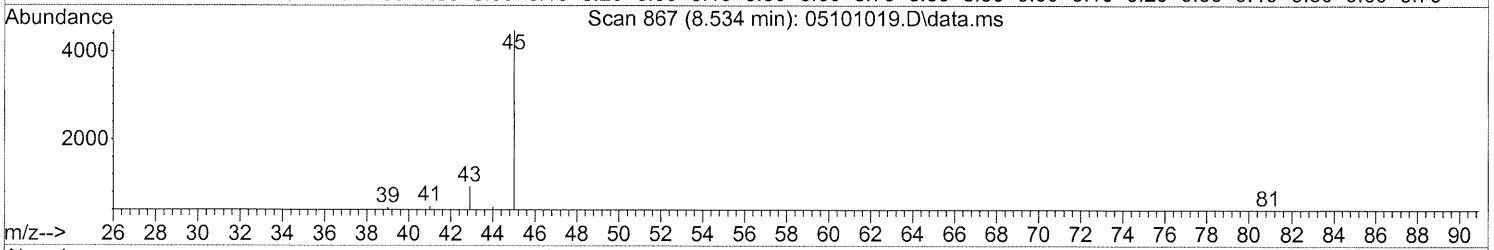
SP

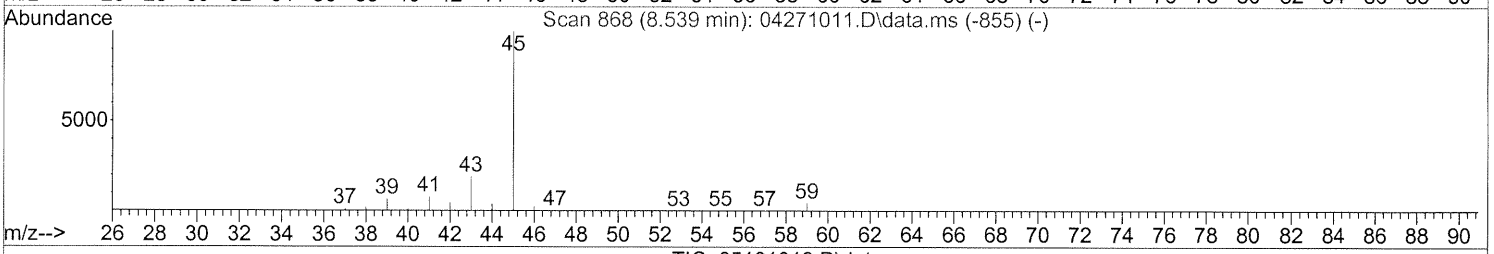
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101019.D\data.ms

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

8.534min (-0.023) 0.55ng m

response 25915

Ion	Exp%	Act%
45.10	100	100
43.00	19.20	14.74
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

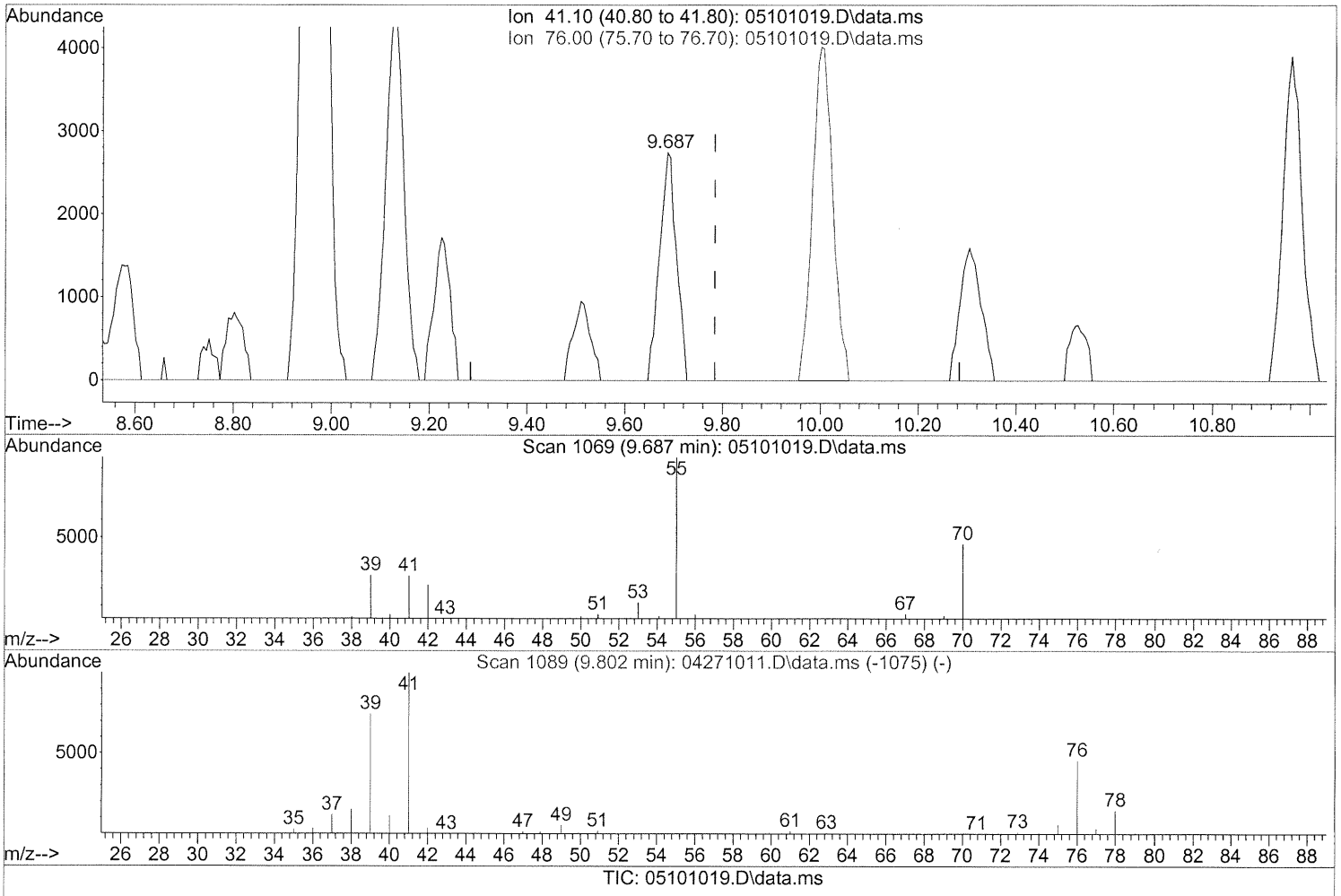
5/17/10

5-19-10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 05101019.D\data.ms

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

9.687min (-0.097) 0.27ng

response 6584

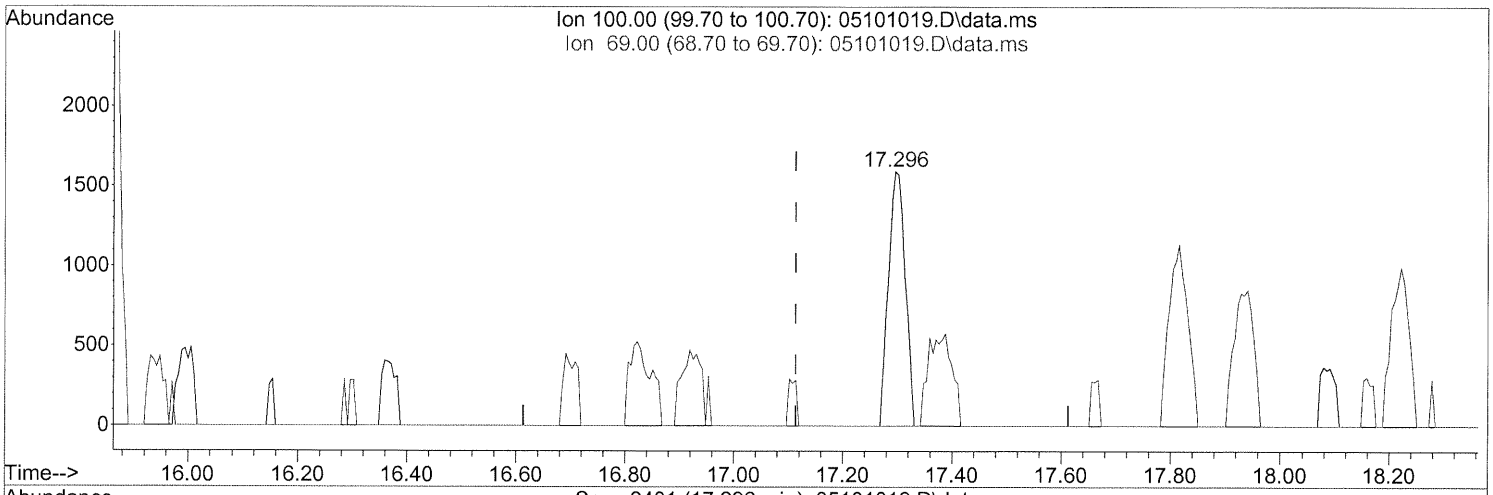
Ion	Exp%	Act%
41.10	100	100
76.00	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Response via : Initial Calibration



TIC: 05101019.D\data.ms

(50) Methyl Methacrylate (T)

17.296min (+0.183) 0.32ng

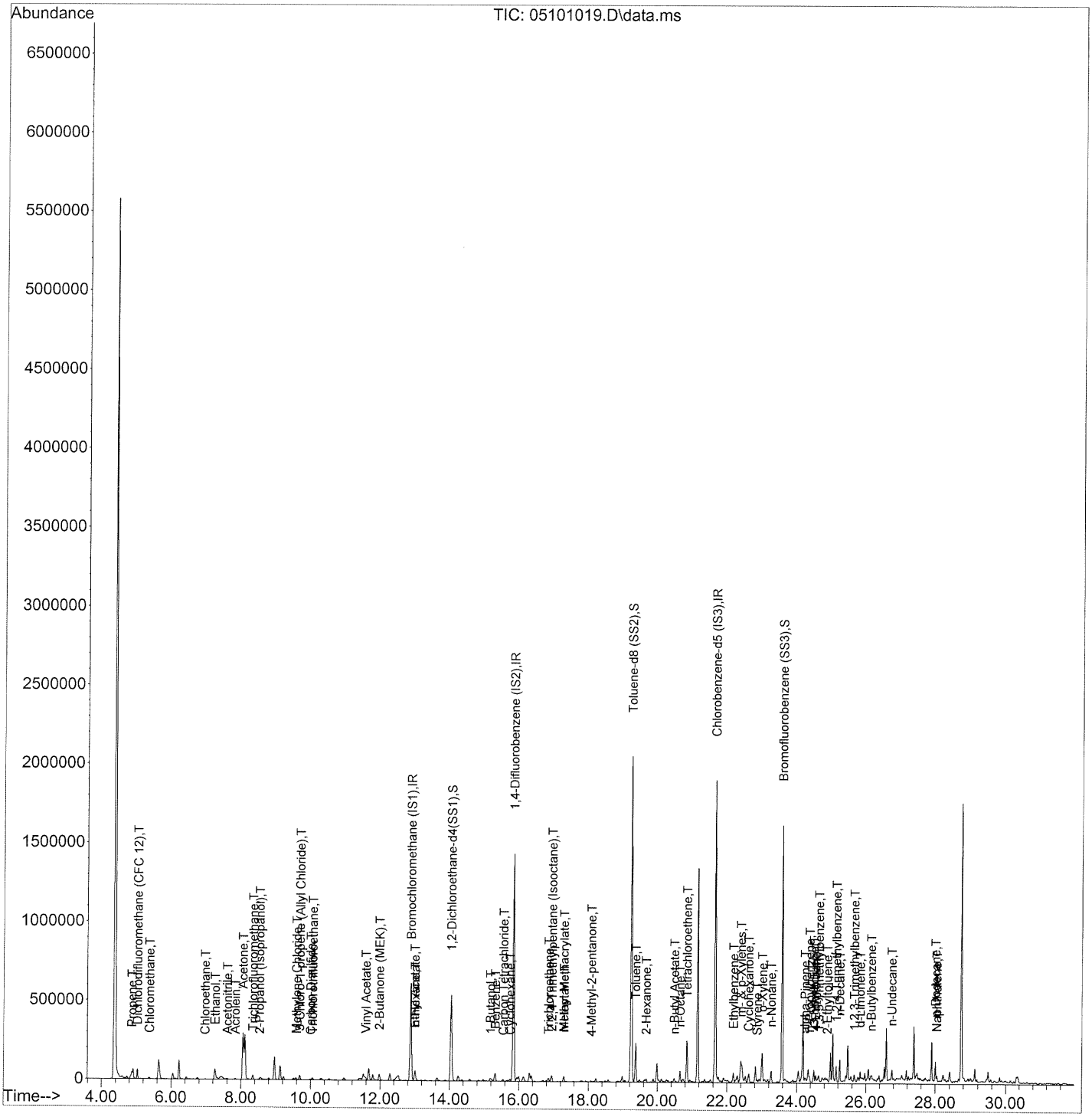
response 3403

Ion	Exp%	Act%
100.00	100	100
69.00	311.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	369171	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1763313	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	746127	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	550827	24.722	ng		0.00
Spiked Amount 25.000			Recovery =	98.88%			
57) Toluene-d8 (SS2)	19.24	98	1861952	24.742	ng		0.00
Spiked Amount 25.000			Recovery =	98.96%			
73) Bromofluorobenzene (SS3)	23.58	174	645784	24.499	ng		0.00
Spiked Amount 25.000			Recovery =	98.00%			
Target Compounds							Qvalue
2) Propene	4.87	42	22469	1.074	ng	#	78
3) Dichlorodifluoromethan...	5.04	85	61890	1.258	ng		99
4) Chloromethane	5.37	50	9519	0.319	ng		100
5) 1,2-Dichloro-1,1,2,2-t...	5.64	135	1533	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.13	54	2101	N.D.			
8) Bromomethane	6.63	94	204	N.D.			
9) Chloroethane	6.97	64	1706	0.100	ng	#	52
10) Ethanol	7.26	45	115733	9.085	ng		99
11) Acetonitrile	7.61	41	7280	0.236	ng		98
12) Acrolein	7.84	56	7360	0.586	ng		97
13) Acetone	8.05	58	193057	11.860	ng		92
14) Trichlorofluoromethane	8.35	101	29864	0.667	ng		99
15) 2-Propanol (Isopropanol)	8.53	45	15061	0.318	ng		86
16) Acrylonitrile	8.81	53	1558	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.57	59	5375	N.D.			
19) Methylene Chloride	9.59	84	3714	0.152	ng	#	75
20) 3-Chloro-1-propene (Al...	9.69	41	6584	0.266	ng	#	42
21) Trichlorotrifluoroethane	10.06	151	6639	0.296	ng	#	79
22) Carbon Disulfide	10.00	76	11527	0.146	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	11.59	86	5036	0.889	ng	#	1
27) 2-Butanone (MEK)	11.98	72	19424	1.299	ng	#	71
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	0.00	87	0	N.D.			
30) Ethyl Acetate	13.00	61	1263	0.159	ng	#	40
31) n-Hexane	13.01	57	38332	1.013	ng	#	96

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
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Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.09	83	2969	N.D.		
34) Tetrahydrofuran (THF)	13.70	72	754	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.22	62	1211	N.D.		
38) 1,1,1-Trichloroethane	14.63	97	226	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.18	56	20619	0.970 ng		80
41) Benzene	15.32	78	66984	0.667 ng		99
42) Carbon Tetrachloride	15.55	117	8815	0.286 ng		100
43) Cyclohexane	15.75	84	8084	0.216 ng	#	77
44) tert-Amyl Methyl Ether	16.19	73	416	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.82	83	1036	N.D.		
47) Trichloroethene	16.86	130	8786	0.314 ng		96
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	41918	0.455 ng		92
50) Methyl Methacrylate	17.30	100	3403	0.320 ng	#	1
51) n-Heptane	17.30	71	11124	0.466 ng		89
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	1964	0.103 ng	#	55
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	235860	2.222 ng		99
59) 2-Hexanone	19.67	43	15201	0.338 ng		93
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	18486	0.360 ng		83
63) n-Octane	20.65	57	14772	0.776 ng	#	84
64) Tetrachloroethene	20.84	166	105222	3.173 ng		99
65) Chlorobenzene	21.71	112	1587	N.D.		
66) Ethylbenzene	22.19	91	52880	0.455 ng		94
67) m- & p-Xylenes	22.40	91	127960	1.392 ng		92
68) Bromoform	22.51	173	803	N.D.		
69) Styrene	22.87	104	9896	0.137 ng	#	76
70) o-Xylene	23.01	91	49927	0.533 ng		92
71) n-Nonane	23.27	43	29106	0.712 ng		91
72) 1,1,2,2-Tetrachloroethane	23.02	83	1342	N.D.		
74) Cumene	23.75	105	5337	N.D.		
75) alpha-Pinene	24.24	93	11996	0.202 ng		82
76) n-Propylbenzene	24.37	91	18517	0.125 ng	#	90
77) 3-Ethyltoluene	24.50	105	44476	0.379 ng		95
78) 4-Ethyltoluene	24.55	105	22181	0.188 ng		96
79) 1,3,5-Trimethylbenzene	24.64	105	18919	0.196 ng		94

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101019.D
Acq On : 11 May 2010 00:59
Operator : WA
Sample : P1001603-008 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 03:53:50 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	1056	N.D.		
81) 2-Ethyltoluene	24.88	105	17631	0.145 ng		97
82) 1,2,4-Trimethylbenzene	25.15	105	53637	0.538 ng		96
83) n-Decane	25.25	57	48912	1.076 ng		83
84) Benzyl Chloride	25.31	91	2370	N.D.		
85) 1,3-Dichlorobenzene	25.42	146	5050	N.D.		
86) 1,4-Dichlorobenzene	25.42	146	5050	N.D.		
87) sec-Butylbenzene	25.47	105	2931	N.D.		
88) 4-Isopropyltoluene (p-...	25.66	119	5399	N.D.		
89) 1,2,3-Trimethylbenzene	25.66	105	13941	0.139 ng		99
90) 1,2-Dichlorobenzene	25.42	146	5050	N.D.		
91) d-Limonene	25.84	68	17810	0.514 ng		89
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.75	57	21625	0.481 ng		73
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	28.05	128	23170	0.183 ng		99
96) n-Dodecane	28.01	57	40628	0.871 ng		88
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.61	55	12916	0.424 ng	#	67
99) tert-Butylbenzene	25.58	119	2616	N.D.		
100) n-Butylbenzene	26.15	91	22161	0.216 ng	#	60

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110309** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P1001603-009

Test Code: EPA TO-15 Date Collected: 5/6/10
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/7/10
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.10 Liter(s)
Container ID: AC00915

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**5.4**	0.76	**3.1**	0.44	
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.1**	0.76	**0.43**	0.15	
74-87-3	**Chloromethane**	**0.63**	0.30	**0.30**	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.76	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.059	
106-99-0	1,3-Butadiene	ND	0.30	ND	0.14	
74-83-9	Bromomethane	ND	0.15	ND	0.039	
75-00-3	Chloroethane	ND	0.15	ND	0.058	
64-17-5	**Ethanol**	**2,300**	76	**1,200**	40	**D**
75-05-8	**Acetonitrile**	**1.1**	0.76	**0.68**	0.45	
107-02-8	**Acrolein**	**4.1**	3.0	**1.8**	1.3	
67-64-1	**Acetone**	**140**	7.6	**59**	3.2	
75-69-4	**Trichlorofluoromethane**	**1.1**	0.15	**0.20**	0.027	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**18**	1.5	**7.3**	0.62	
107-13-1	Acrylonitrile	ND	0.76	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	ND	0.76	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.049	
76-13-1	**Trichlorotrifluoroethane**	**0.51**	0.15	**0.066**	0.020	
75-15-0	Carbon Disulfide	ND	7.6	ND	2.4	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.038	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.042	
108-05-4	Vinyl Acetate	ND	7.6	ND	2.2	
78-93-3	**2-Butanone (MEK)**	**7.8**	7.6	**2.6**	2.6	

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: Ro Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110309**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00915

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	**Ethyl Acetate**	**5.1**	0.76	**1.4**	0.21	
110-54-3	**n-Hexane**	**2.8**	0.76	**0.78**	0.22	
67-66-3	**Chloroform**	**4.6**	0.15	**0.95**	0.031	
109-99-9	**Tetrahydrofuran (THF)**	**2.1**	0.76	**0.71**	0.26	
107-06-2	**1,2-Dichloroethane**	**13**	0.15	**3.3**	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	**Benzene**	**1.7**	0.15	**0.53**	0.048	
56-23-5	**Carbon Tetrachloride**	**0.49**	0.15	**0.078**	0.024	
110-82-7	**Cyclohexane**	**1.1**	0.76	**0.33**	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.033	
75-27-4	**Bromodichloromethane**	**0.72**	0.15	**0.11**	0.023	
79-01-6	**Trichloroethene**	**1.5**	0.15	**0.27**	0.028	
123-91-1	1,4-Dioxane	ND	0.76	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.76	ND	0.19	
142-82-5	**n-Heptane**	**23**	0.76	**5.6**	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	0.76	ND	0.17	
108-10-1	**4-Methyl-2-pentanone**	**0.95**	0.76	**0.23**	0.19	
10061-02-6	trans-1,3-Dichloropropene	ND	0.76	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	**Toluene**	**53**	0.76	**14**	0.20	
591-78-6	2-Hexanone	ND	0.76	ND	0.19	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	**n-Butyl Acetate**	**3.2**	0.76	**0.67**	0.16	

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: Re Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.** CAS Project ID: P1001603
Client Sample ID: **110309** CAS Sample ID: P1001603-009
Client Project ID: **17131**

Test Code: EPA TO-15 Date Collected: 5/6/10
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/7/10
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.10 Liter(s)
Container ID: AC00915

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	**n-Octane**	**69**	0.76	**15**	0.16	
127-18-4	**Tetrachloroethene**	**6.3**	0.15	**0.93**	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	**Ethylbenzene**	**2.1**	0.76	**0.48**	0.18	
179601-23-1	**m,p-Xylenes**	**6.2**	0.76	**1.4**	0.18	
75-25-2	Bromoform	ND	0.76	ND	0.074	
100-42-5	**Styrene**	**1.1**	0.76	**0.27**	0.18	
95-47-6	**o-Xylene**	**2.5**	0.76	**0.58**	0.18	
111-84-2	**n-Nonane**	**140**	0.76	**27**	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.76	ND	0.15	
80-56-8	**alpha-Pinene**	**60**	0.76	**11**	0.14	
103-65-1	n-Propylbenzene	ND	0.76	ND	0.15	
622-96-8	**4-Ethyltoluene**	**1.1**	0.76	**0.23**	0.15	
108-67-8	**1,3,5-Trimethylbenzene**	**1.4**	0.76	**0.28**	0.15	
95-63-6	**1,2,4-Trimethylbenzene**	**4.5**	0.76	**0.92**	0.15	
100-44-7	Benzyl Chloride	ND	0.76	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	**1,4-Dichlorobenzene**	**0.51**	0.15	**0.084**	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	**d-Limonene**	**120**	0.76	**22**	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.76	ND	0.079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.76	ND	0.10	
91-20-3	**Naphthalene**	**0.80**	0.76	**0.15**	0.15	
87-68-3	Hexachlorobutadiene	ND	0.76	ND	0.071	

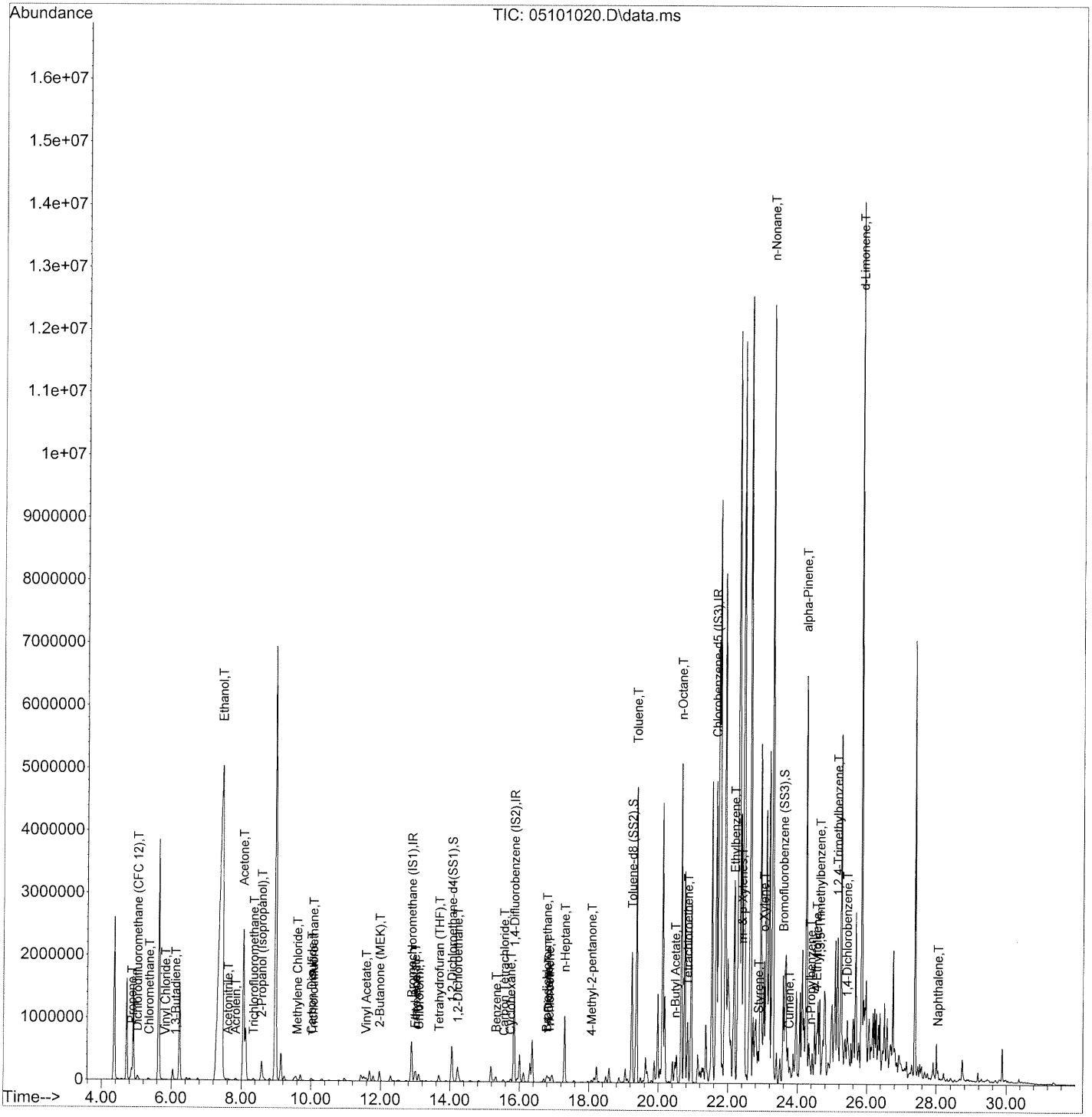
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rv Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 15 17:17:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
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Quant Time: May 15 17:17:51 2010
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	378287	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.85	114	1793417	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	941633	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	564795	24.738	ng		0.00
Spiked Amount 25.000			Recovery =	98.96%			✓
57) Toluene-d8 (SS2)	19.24	98	1887069	19.870	ng		0.00
Spiked Amount 25.000			Recovery =	79.48%			✓
73) Bromofluorobenzene (SS3)	23.59	174	682406	20.513	ng		0.00
Spiked Amount 25.000			Recovery =	82.04%			✓
Target Compounds							Qvalue
2) Propene	4.87	42	76153m	3.553	ng		
3) Dichlorodifluoromethan...	5.03	85	69882	1.387	ng		100
4) Chloromethane	5.36	50	12655	0.414	ng		99
6) Vinyl Chloride	5.83	62	3129	0.091	ng		82
7) 1,3-Butadiene	6.12	54	4112	0.165	ng		99
10) Ethanol	7.45	45	20992191m	1608.153	ng		sat dil
11) Acetonitrile	7.61	41	23721	0.750	ng		96
12) Acrolein	7.84	56	35112	2.727	ng		100
13) Acetone	8.05	58	1528435	91.630	ng		98
14) Trichlorofluoromethane	8.35	101	34142	0.744	ng		100
15) 2-Propanol (Isopropanol)	8.58	45	569855	11.725	ng		100
19) Methylene Chloride	9.60	84	5130	0.204	ng	#	79
21) Trichlorotrifluoroethane	10.06	151	7654	0.333	ng	#	74
22) Carbon Disulfide	10.01	76	77658	0.958	ng		100
26) Vinyl Acetate	11.58	86	18690m	3.220	ng		
27) 2-Butanone (MEK)	11.97	72	78296	5.110	ng	#	67
30) Ethyl Acetate	12.99	61	27218	3.345	ng		91
31) n-Hexane	13.02	57	70344	1.814	ng	#	95
32) Chloroform	13.10	83	125214	3.038	ng		99
34) Tetrahydrofuran (THF)	13.69	72	20418	1.372	ng	#	61
36) 1,2-Dichloroethane	14.22	62	269131	8.700	ng		100
41) Benzene	15.33	78	112628	1.103	ng		98
42) Carbon Tetrachloride	15.55	117	10172	0.324	ng		100
43) Cyclohexane	15.75	84	28399	0.747	ng	#	80
46) Bromodichloromethane	16.79	83	14438m	0.471	ng		
47) Trichloroethene	16.86	130	27420	0.962	ng		99
48) 1,4-Dioxane	16.83	88	4208	0.211	ng		92
51) n-Heptane	17.30	71	365837	15.062	ng		87
53) 4-Methyl-2-pentanone	18.08	58	12064	0.624	ng		86
58) Toluene	19.38	91	4674067	34.896	ng		98

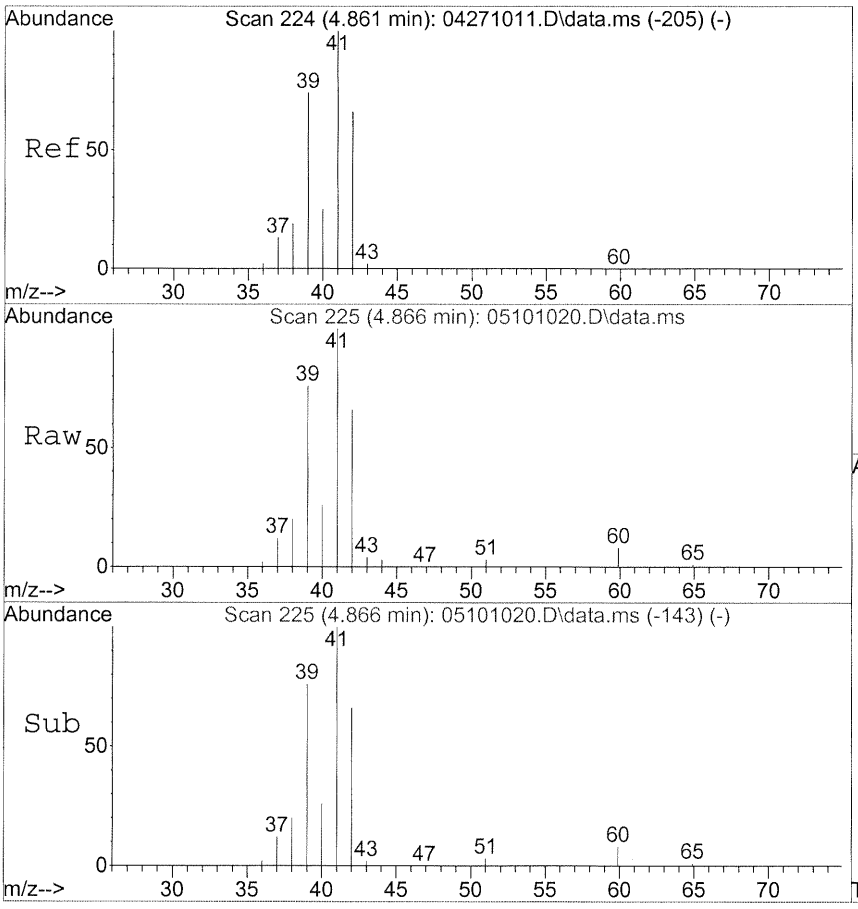
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Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 15 17:17:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
62) n-Butyl Acetate	20.48	43	135693	2.097	ng	#	74
63) n-Octane	20.66	57	1084569	45.125	ng	#	80
64) Tetrachloroethene	20.85	166	173843	4.154	ng		99
66) Ethylbenzene	22.19	91	201612	1.373	ng		99
67) m- & p-Xylenes	22.40	91	469898	4.051	ng		95
69) Styrene	22.88	104	68997	0.756	ng		96
70) o-Xylene	23.03	91	196082	1.658	ng		97
71) n-Nonane	23.28	43	4764261	92.351	ng		85
74) Cumene	23.76	105	26862	0.166	ng		96
75) alpha-Pinene	24.25	93	2974441	39.668	ng		94
76) n-Propylbenzene	24.38	91	75337	0.402	ng		95
78) 4-Ethyltoluene	24.55	105	109397	0.734	ng		97
79) 1,3,5-Trimethylbenzene	24.64	105	112083	0.921	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	375549	2.984	ng		97
86) 1,4-Dichlorobenzene	25.42	146	26577	0.334	ng		98
91) d-Limonene	25.84	68	3458580	79.151	ng		76
95) Naphthalene	28.05	128	83917	0.525	ng		94

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

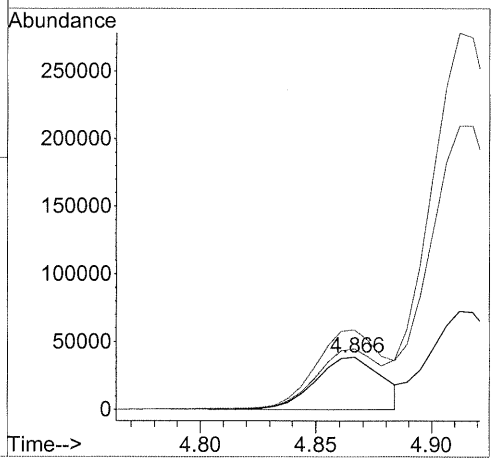
5/17/10

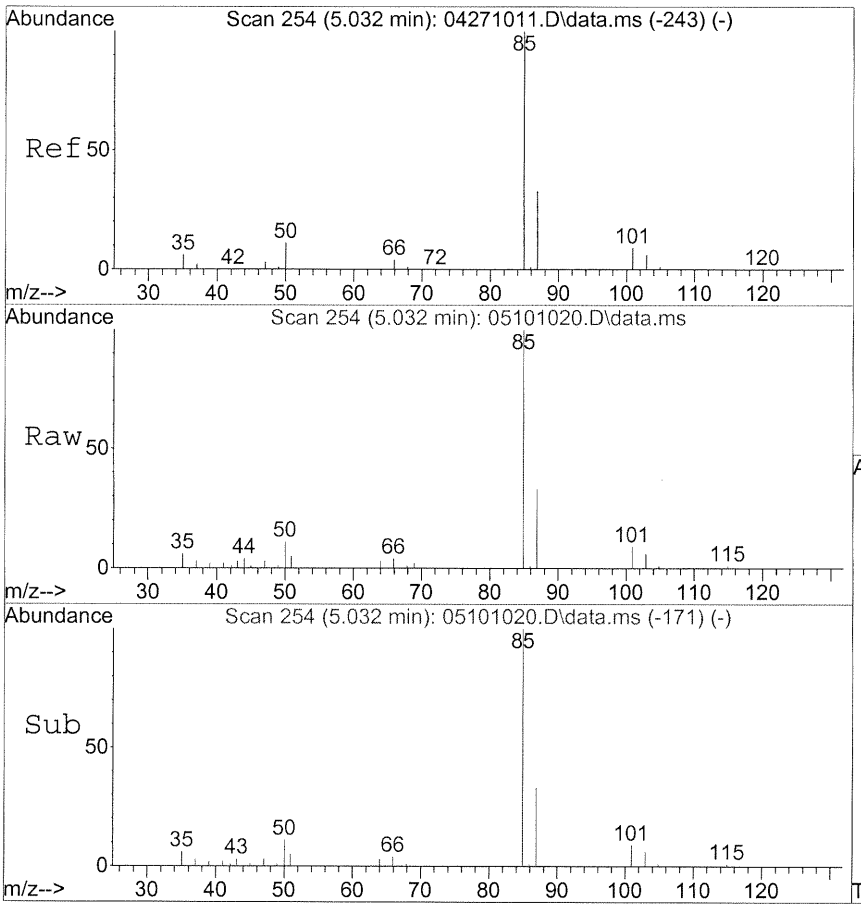


#2
Propene
Concen: 3.55 ng m
RT: 4.87 min Scan# 225
Delta R.T. -0.034 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 42 Resp: 76153

Ion	Ratio	Lower	Upper
42	100		
39	822.9	92.2	132.2#
41	615.7	133.9	173.9#

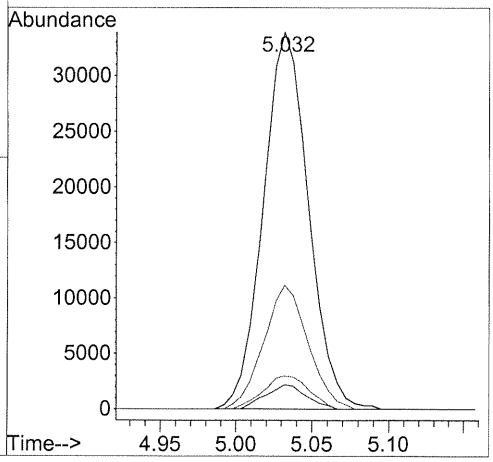


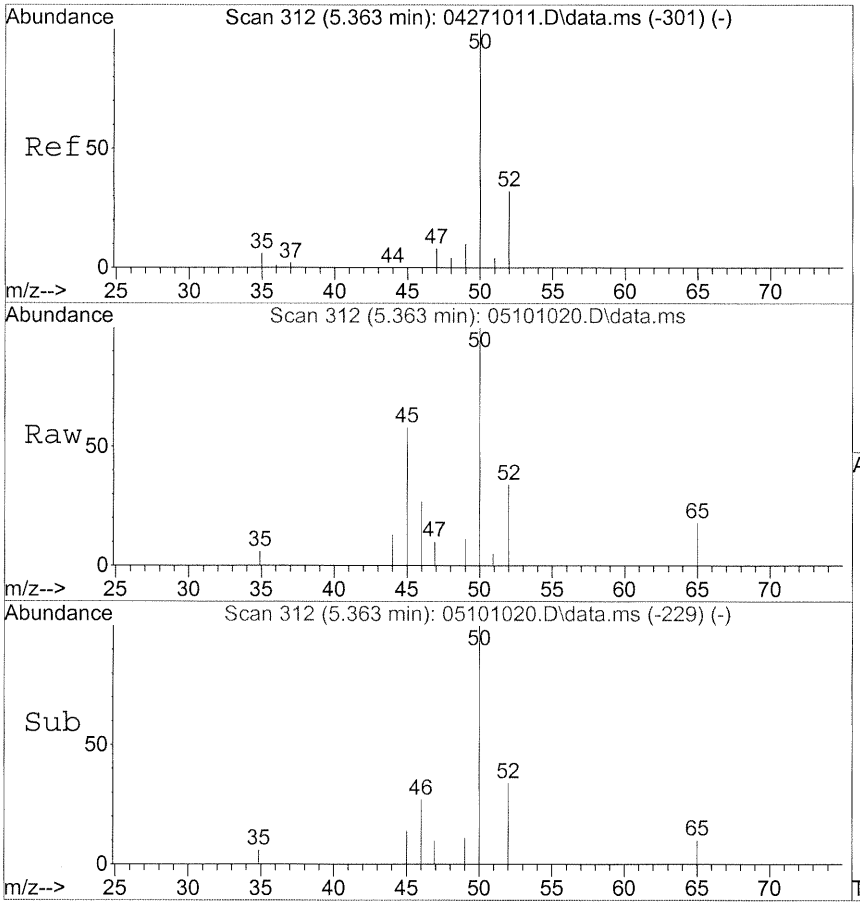


#3
Dichlorodifluoromethane (CFC
Concen: 1.39 ng
RT: 5.03 min Scan# 254
Delta R.T. -0.028 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 85 Resp: 69882

Ion	Ratio	Lower	Upper
85	100		
87	32.2	12.0	52.0
101	8.8	0.0	28.5
103	5.7	0.0	25.4

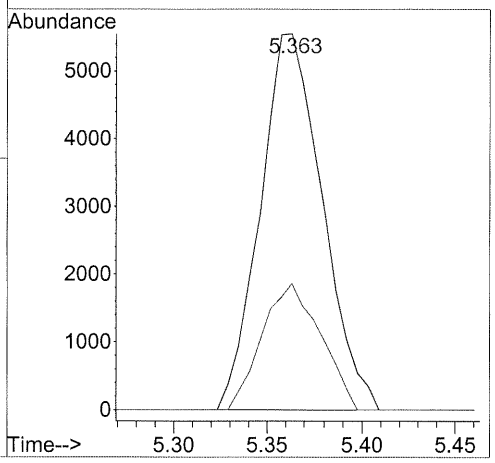


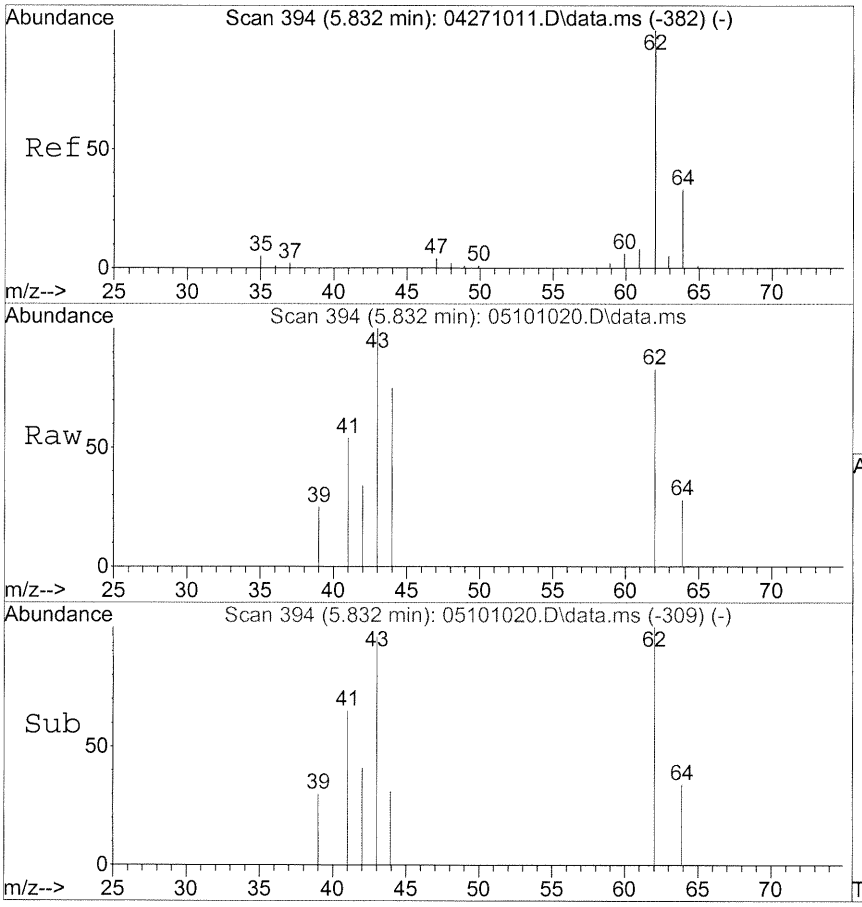


#4
Chloromethane
Concen: 0.41 ng
RT: 5.36 min Scan# 312
Delta R.T. -0.028 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 50 Resp: 12655

Ion	Ratio	Lower	Upper
50	100		
52	31.7	12.1	52.1

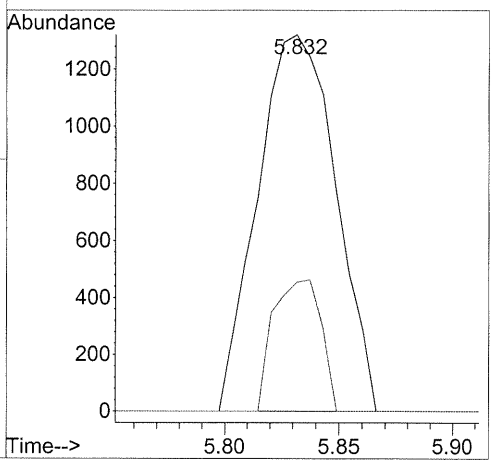


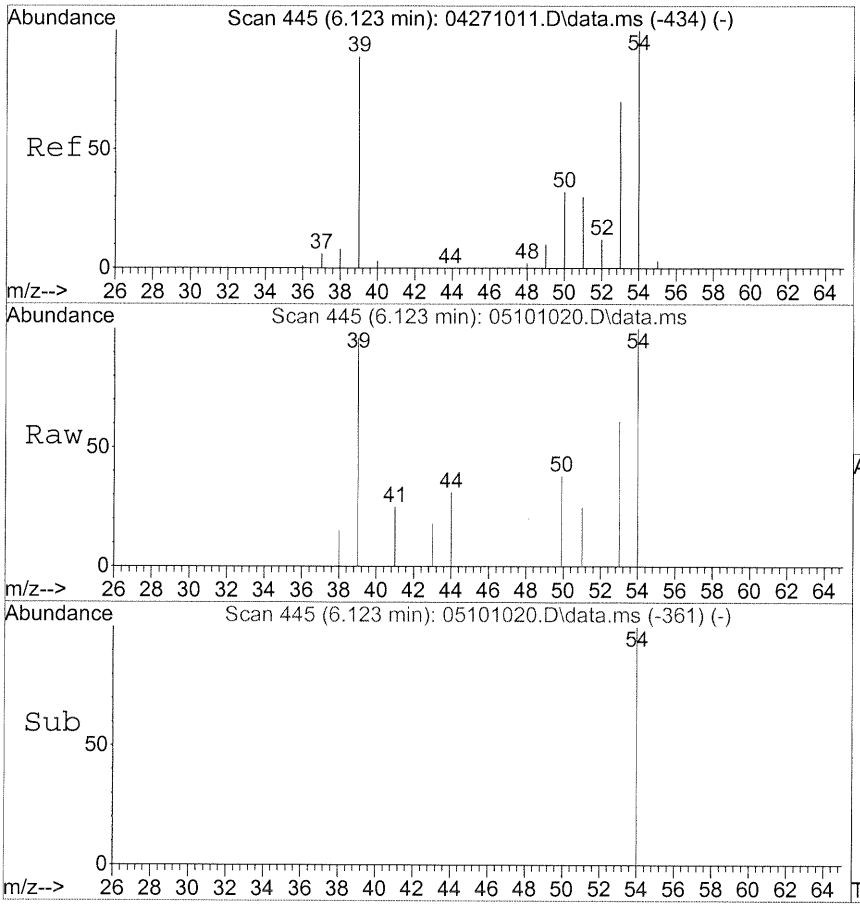


#6
Vinyl Chloride
Concen: 0.09 ng
RT: 5.83 min Scan# 394
Delta R.T. -0.017 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 62 Resp: 3129

Ion	Ratio	Lower	Upper
62	100		
64	21.4	11.7	51.7

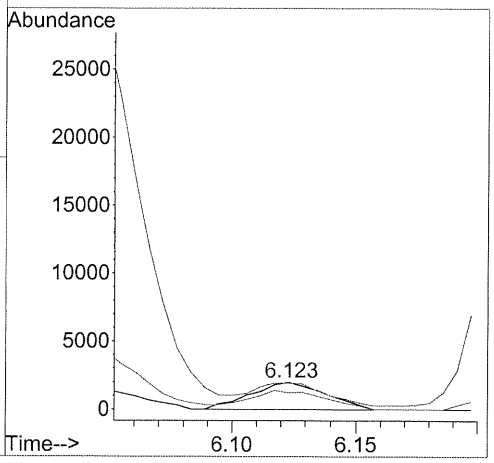


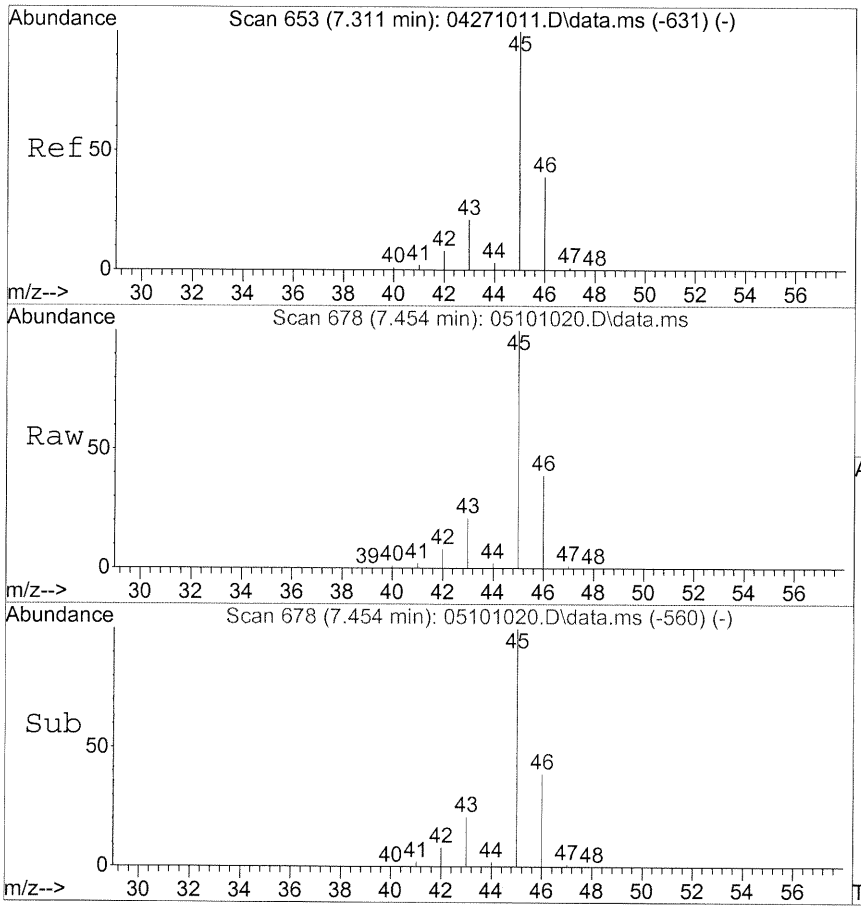


#7
1,3-Butadiene
Concen: 0.16 ng
RT: 6.12 min Scan# 445
Delta R.T. -0.023 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 54 Resp: 4112

Ion	Ratio	Lower	Upper
54	100		
39	106.3	85.1	125.1
53	69.7	50.7	90.7

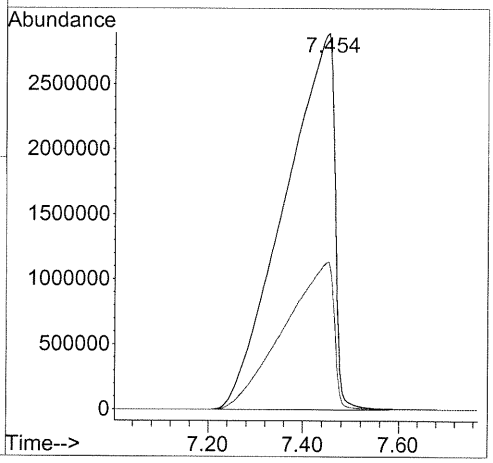


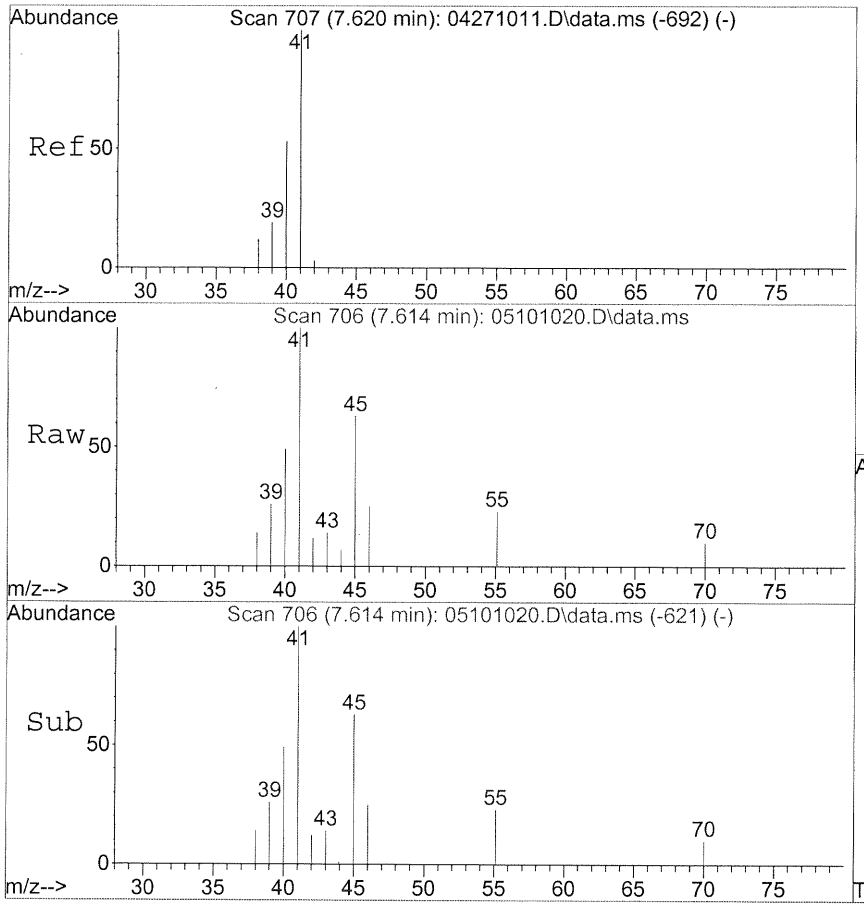


#10
Ethanol
Concen: 1608.15 ng m
RT: 7.45 min Scan# 678
Delta R.T. 0.172 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 45 Resp:20992191

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.4	58.4#

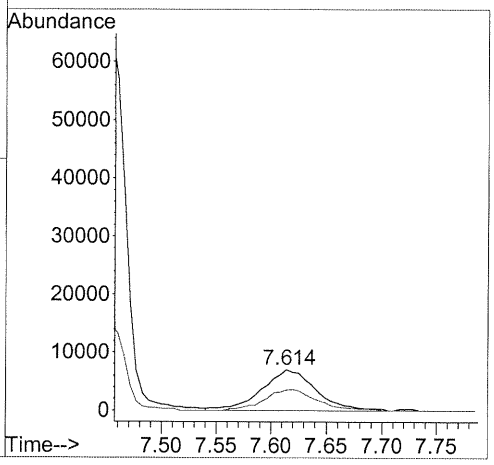


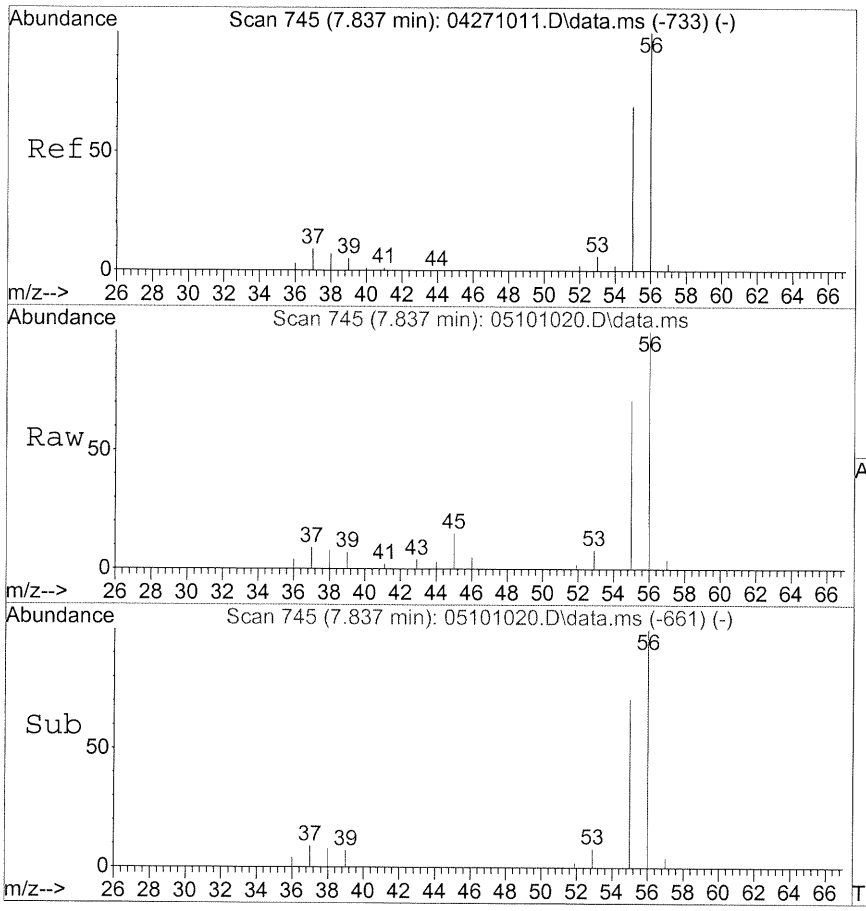


#11
Acetonitrile
Concen: 0.75 ng
RT: 7.61 min Scan# 706
Delta R.T. -0.017 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 41 Resp: 23721

Ion	Ratio	Lower	Upper
41	100		
40	49.6	32.7	72.7

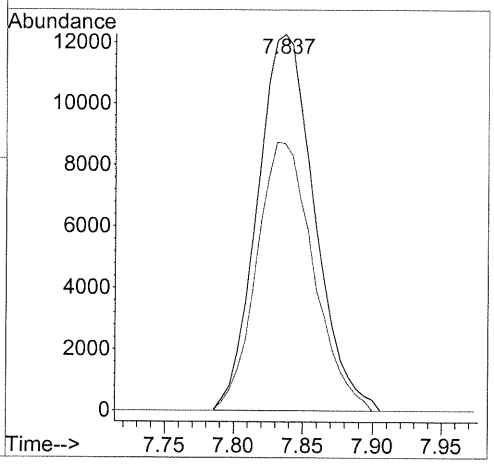


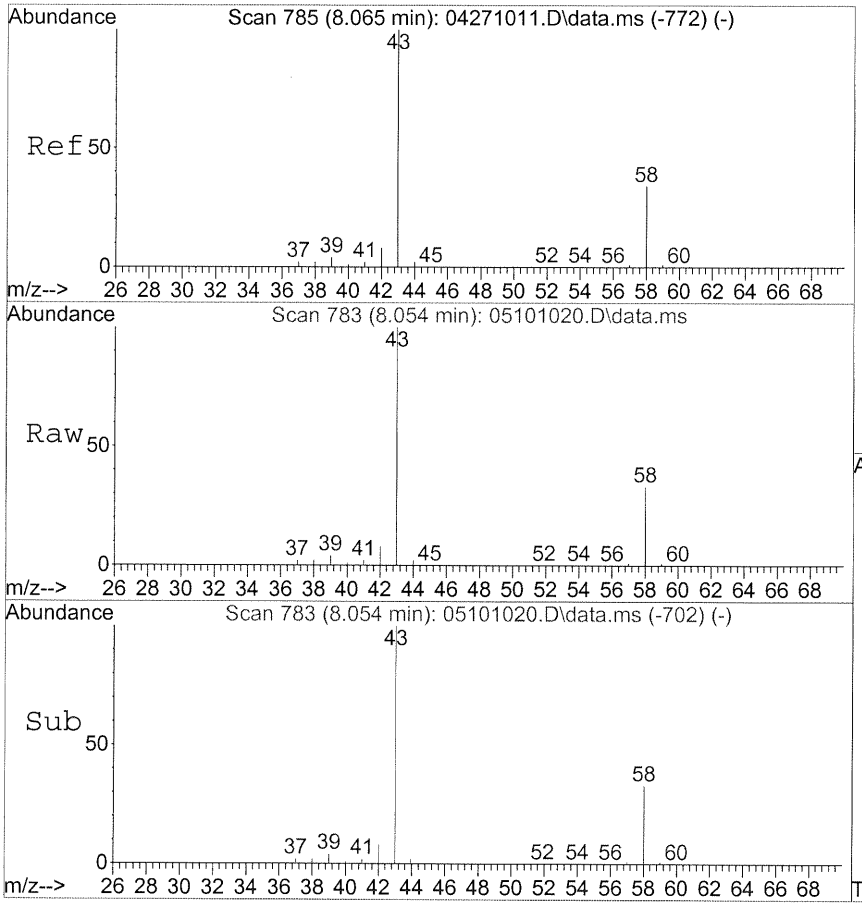


#12
Acrolein
Concen: 2.73 ng
RT: 7.84 min Scan# 745
Delta R.T. -0.022 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 56 Resp: 35112

Ion	Ratio	Lower	Upper
56	100		
55	70.9	50.5	90.5

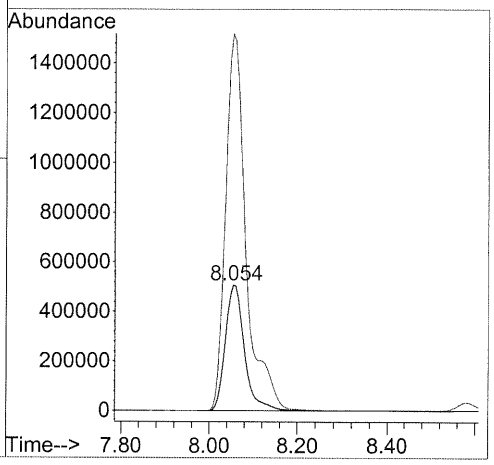


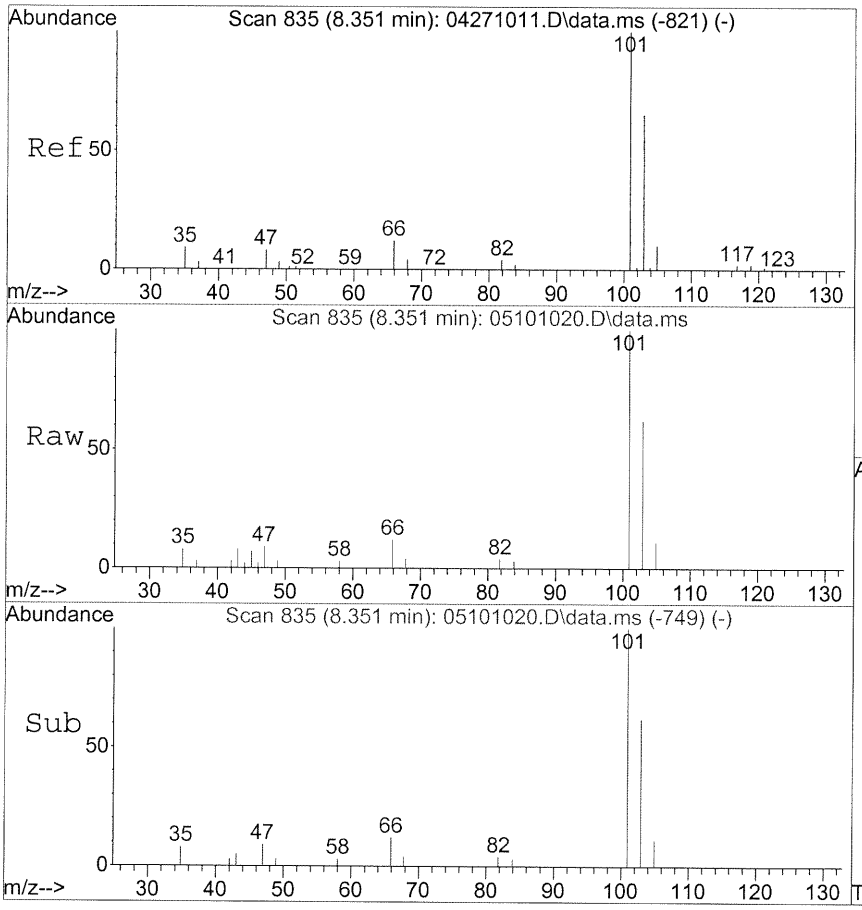


#13
Acetone
Concen: 91.63 ng
RT: 8.05 min Scan# 783
Delta R.T. -0.040 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 58 Resp: 1528435

Ion	Ratio	Lower	Upper
58	100		
43	319.9	295.0	355.0

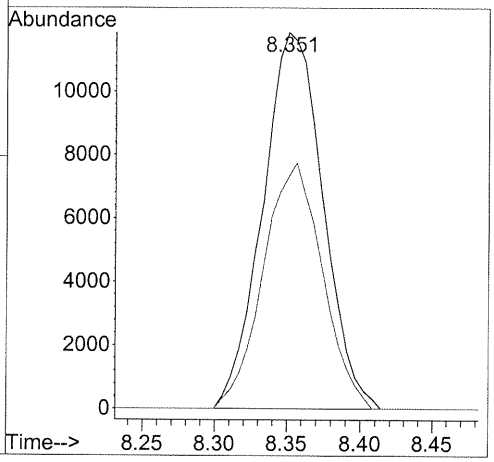


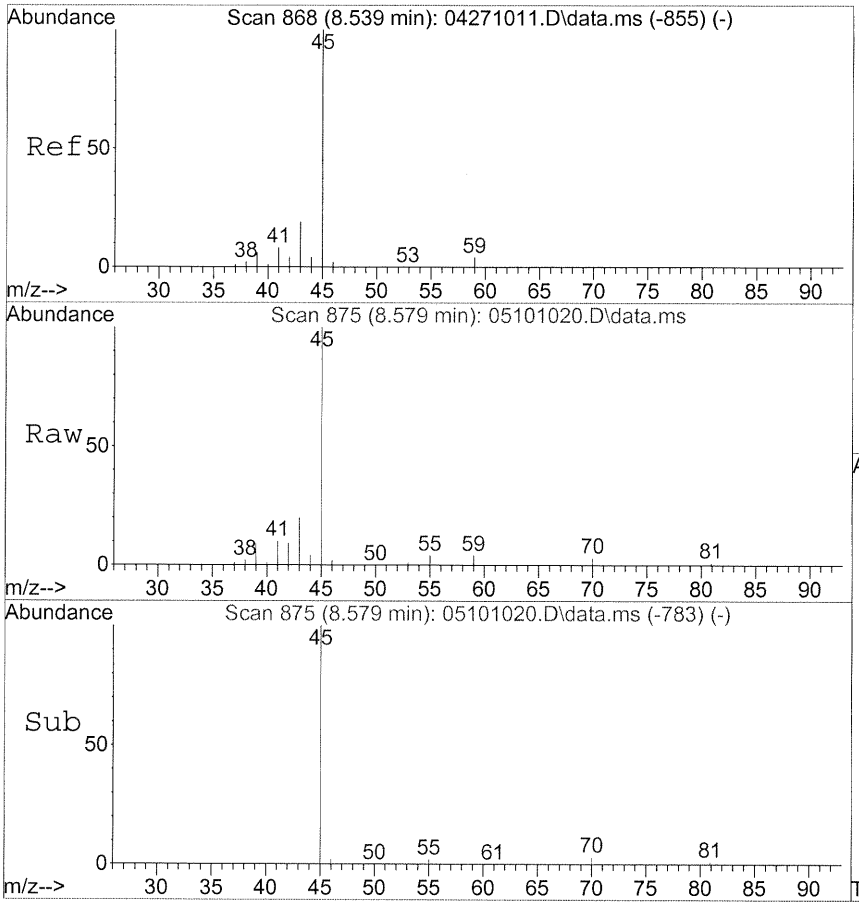


#14
Trichlorofluoromethane
Concen: 0.74 ng
RT: 8.35 min Scan# 835
Delta R.T. -0.011 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:101 Resp: 34142

Ion	Ratio	Lower	Upper
101	100		
103	63.9	43.8	83.8

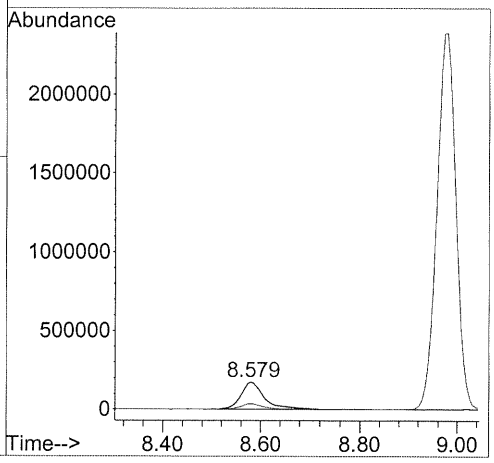


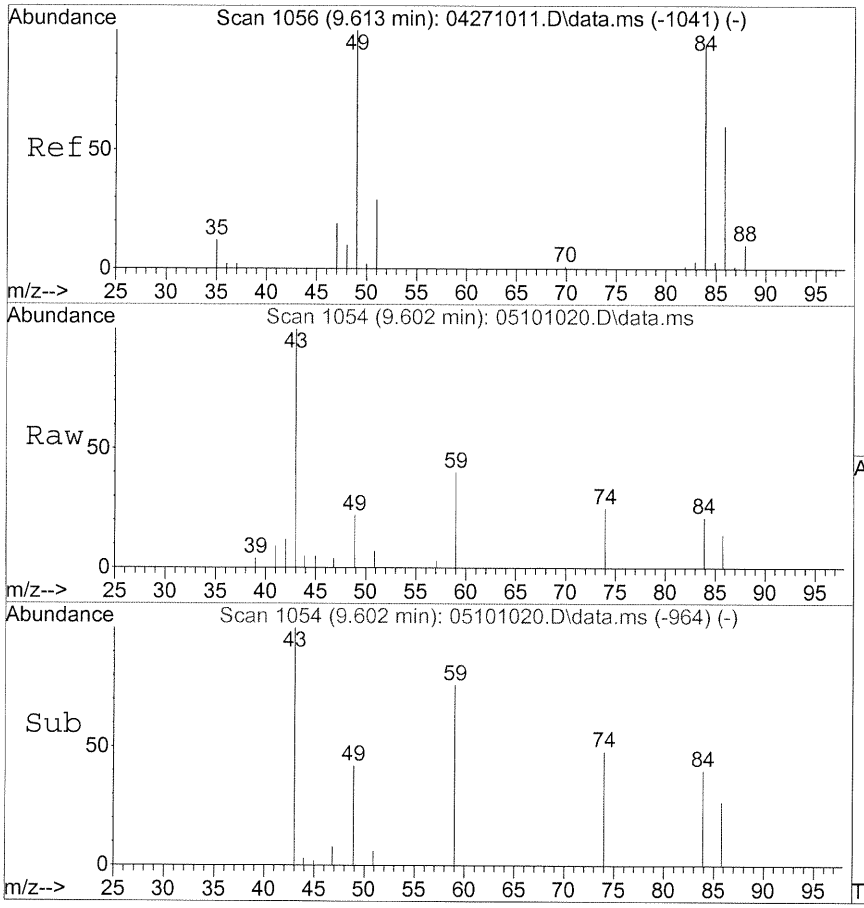


#15
2-Propanol (Isopropanol)
Concen: 11.73 ng
RT: 8.58 min Scan# 875
Delta R.T. 0.023 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 45 Resp: 569855

Ion	Ratio	Lower	Upper
45	100		
43	19.3	0.0	39.2

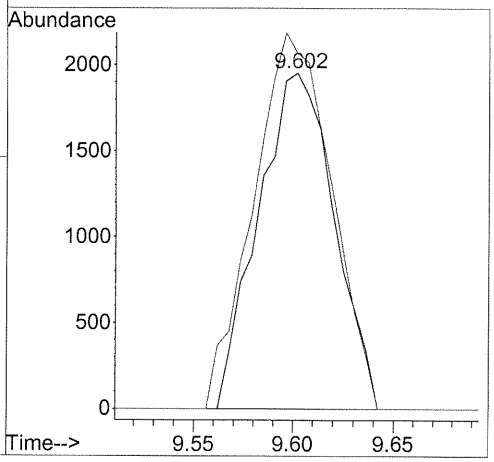


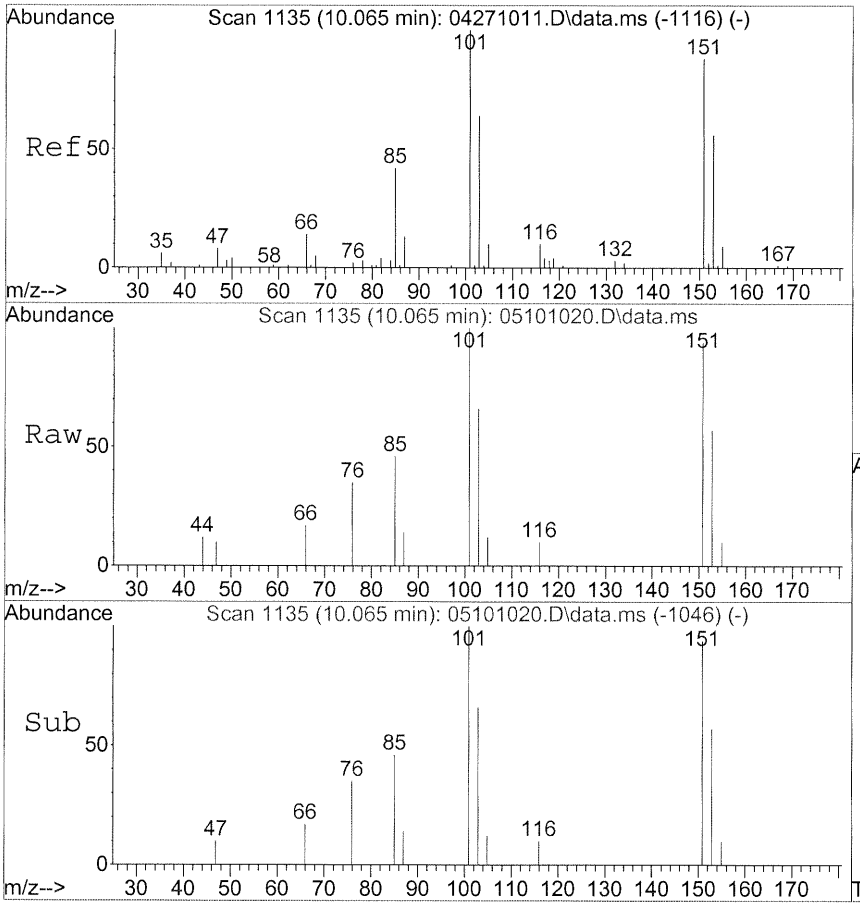


#19
Methylene Chloride
Concen: 0.20 ng
RT: 9.60 min Scan# 1054
Delta R.T. 0.012 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 84 Resp: 5130

Ion	Ratio	Lower	Upper
84	100		
49	115.5	116.6	166.6#

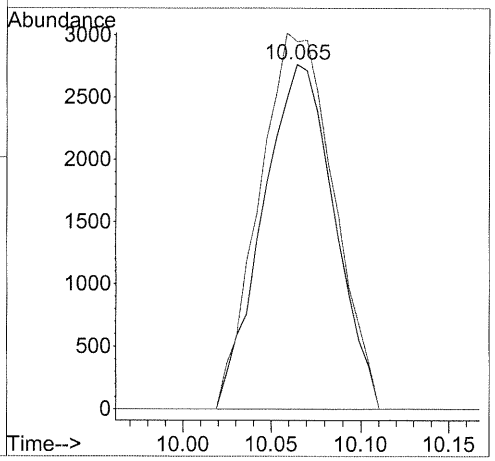


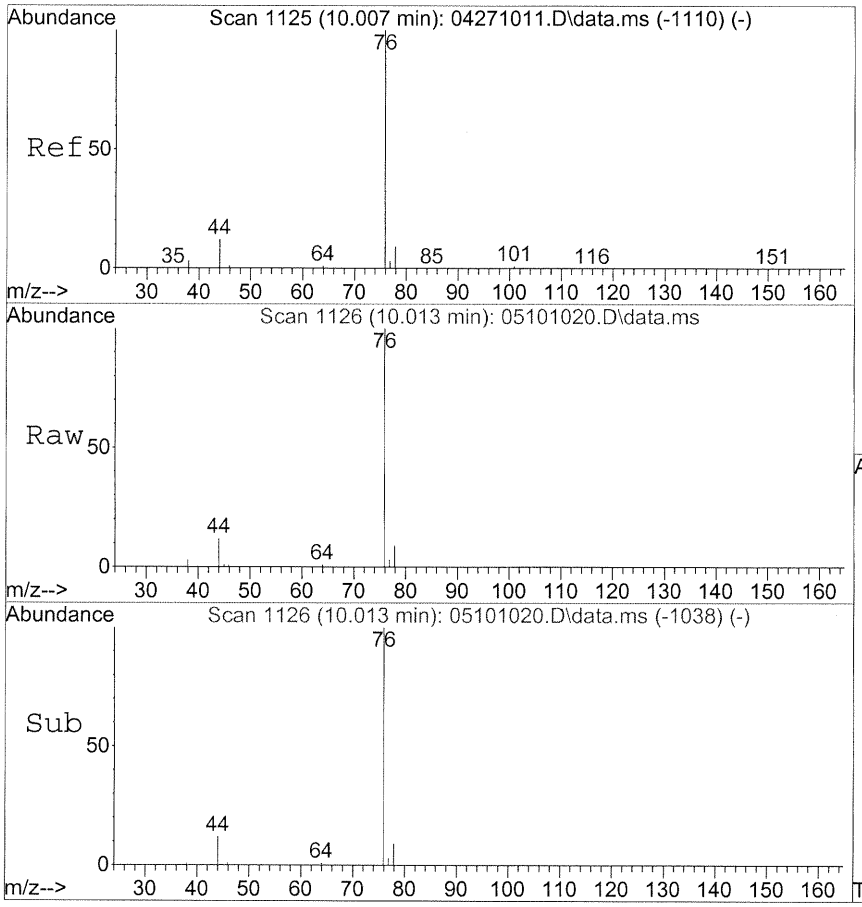


#21
Trichlorotrifluoroethane
Concen: 0.33 ng
RT: 10.06 min Scan# 1135
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:151 Resp: 7654

Ion	Ratio	Lower	Upper
151	100		
101	113.7	125.6	165.6#

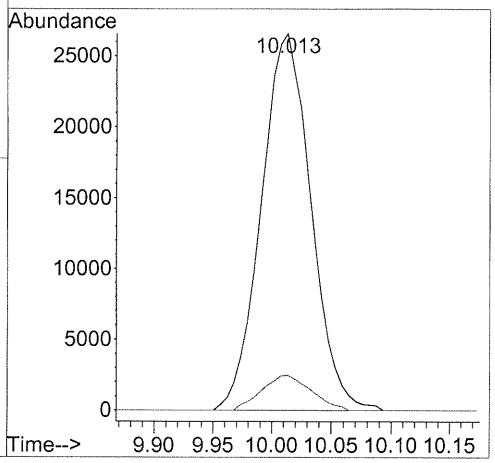


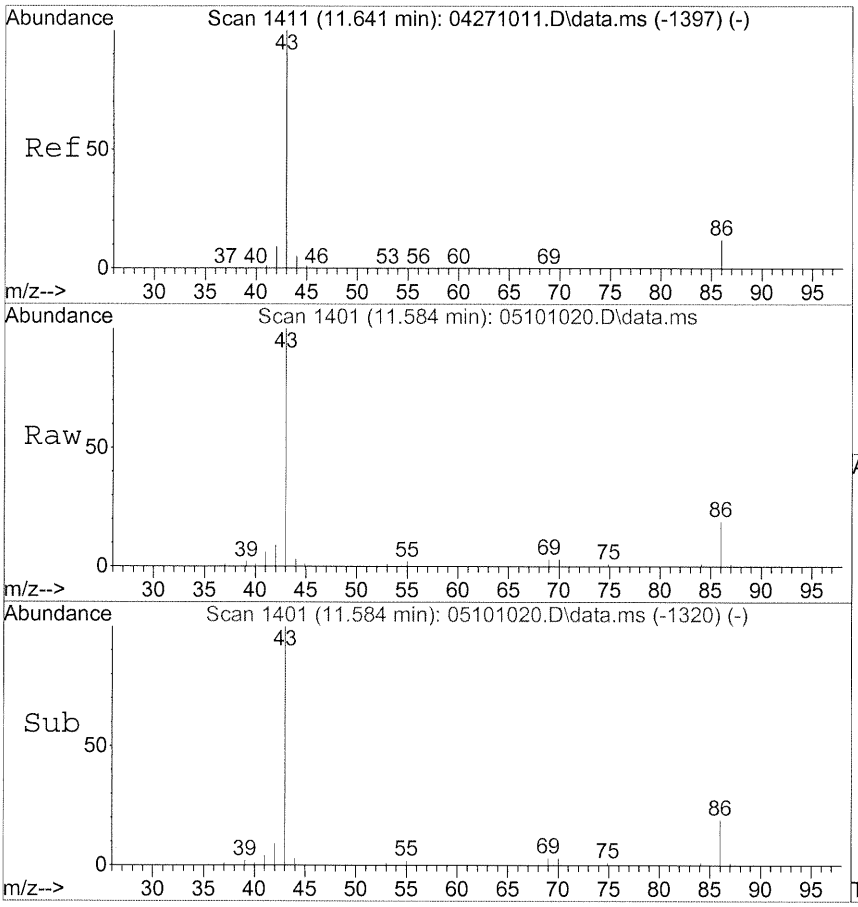


#22
Carbon Disulfide
Concen: 0.96 ng
RT: 10.01 min Scan# 1126
Delta R.T. 0.000 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 76 Resp: 77658

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.1

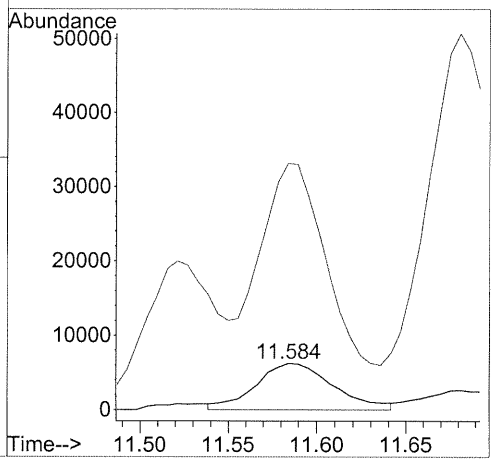


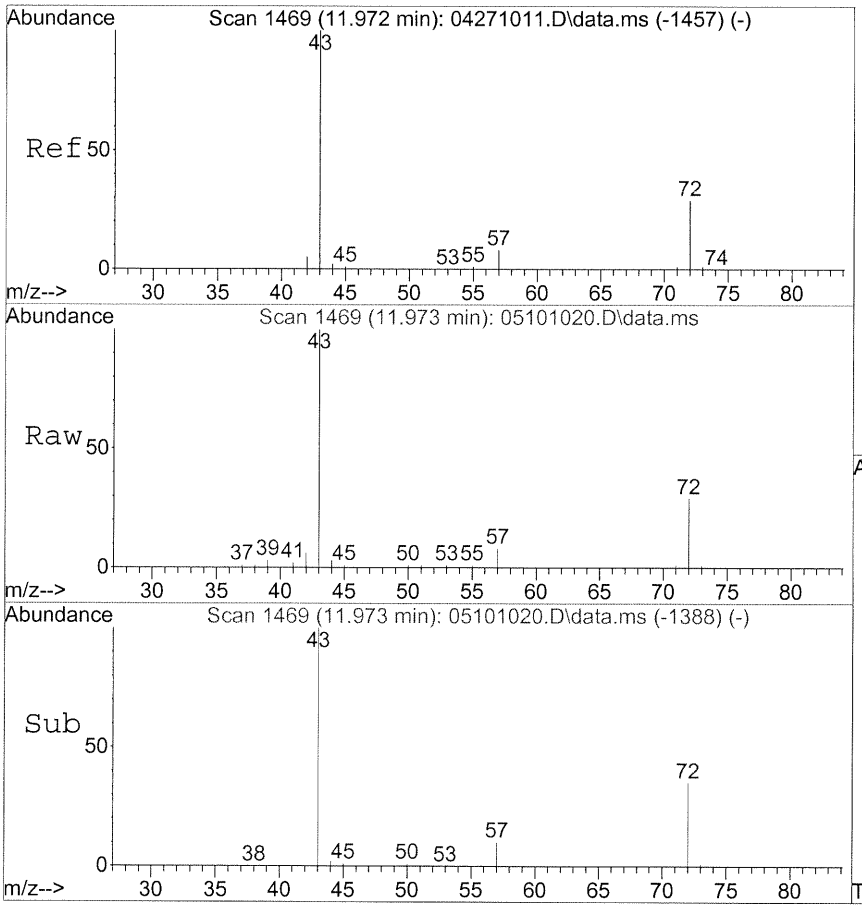


#26
Vinyl Acetate
Concen: 3.22 ng m
RT: 11.58 min Scan# 1401
Delta R.T. -0.040 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 86 Resp: 18690

Ion	Ratio	Lower	Upper
86	100		
43	767.1	1285.5	1325.5#

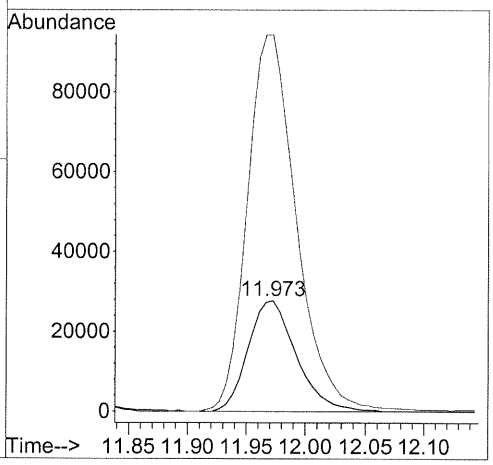


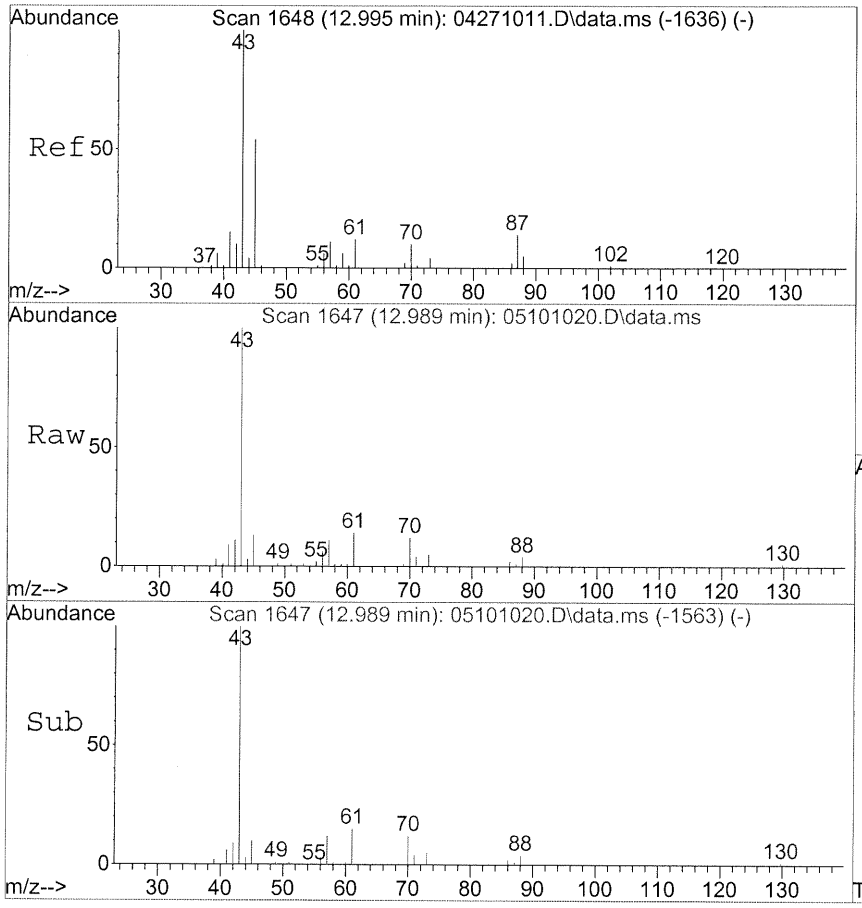


#27
2-Butanone (MEK)
Concen: 5.11 ng
RT: 11.97 min Scan# 1469
Delta R.T. -0.040 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 72 Resp: 78296

Ion	Ratio	Lower	Upper
72	100		
43	350.0	412.3	452.3#

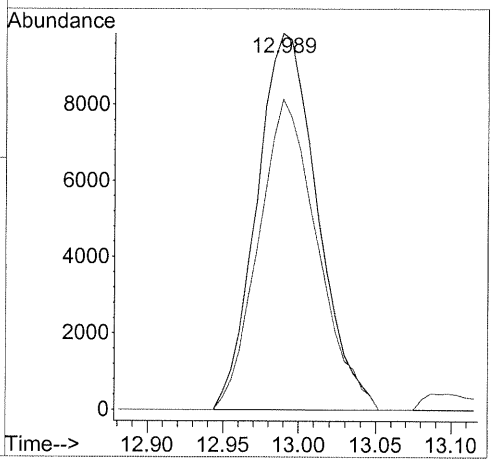


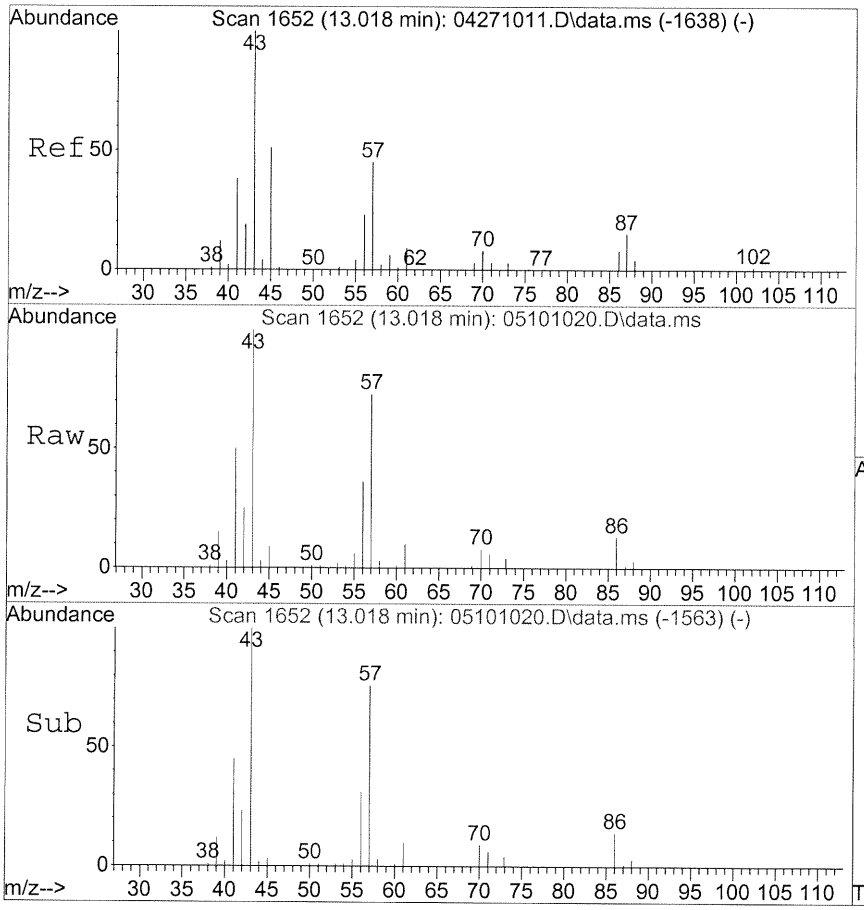


#30
Ethyl Acetate
Concen: 3.34 ng
RT: 12.99 min Scan# 1647
Delta R.T. -0.023 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 61 Resp: 27218

Ion	Ratio	Lower	Upper
61	100		
70	80.0	52.2	92.2

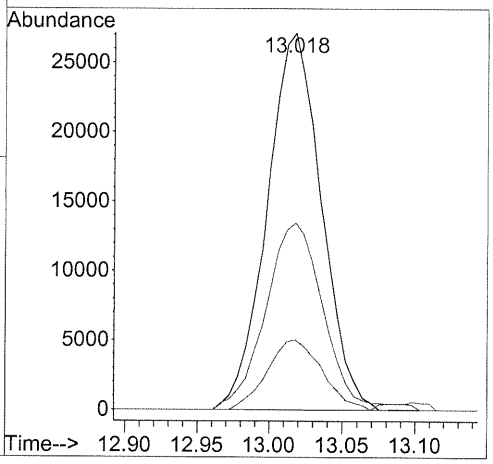


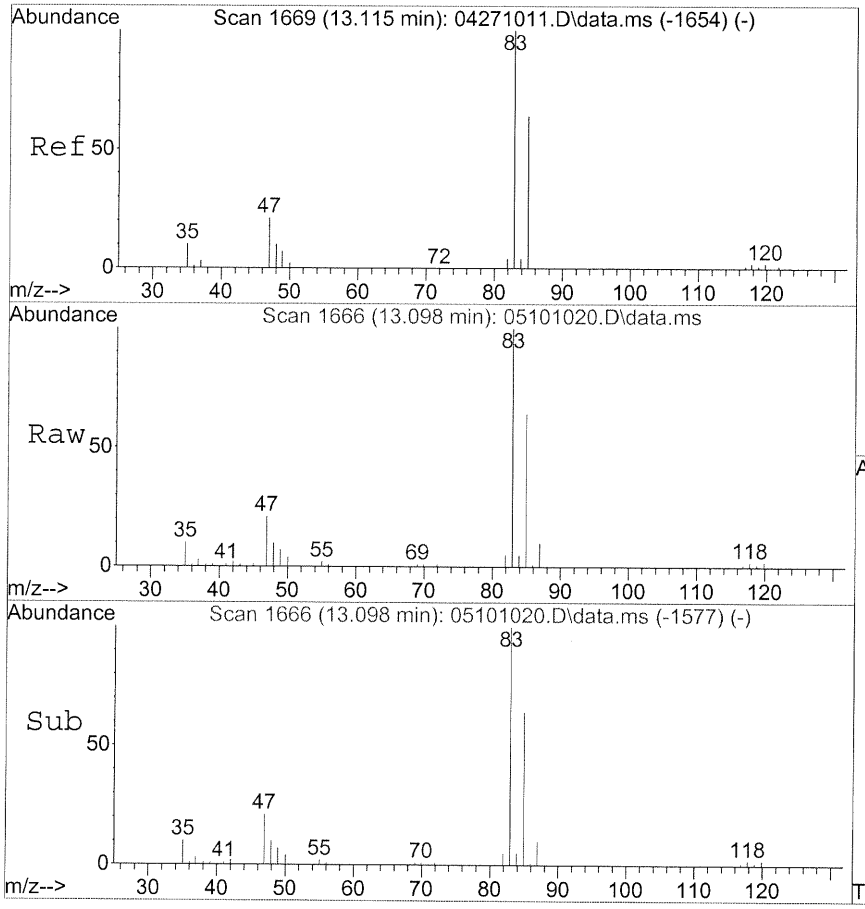


#31
n-Hexane
Concen: 1.81 ng
RT: 13.02 min Scan# 1652
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 57 Resp: 70344

Ion	Ratio	Lower	Upper
57	100		
56	52.8	40.0	60.0
86	18.6	11.5	17.3#

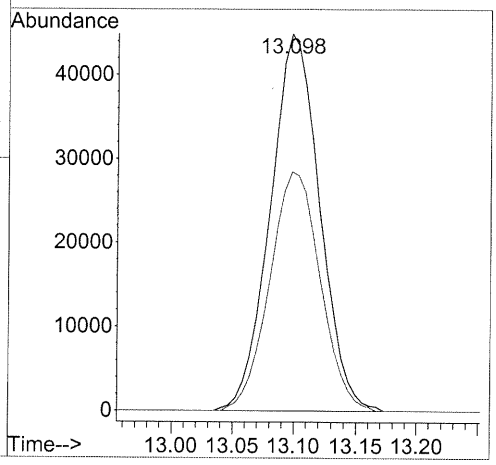


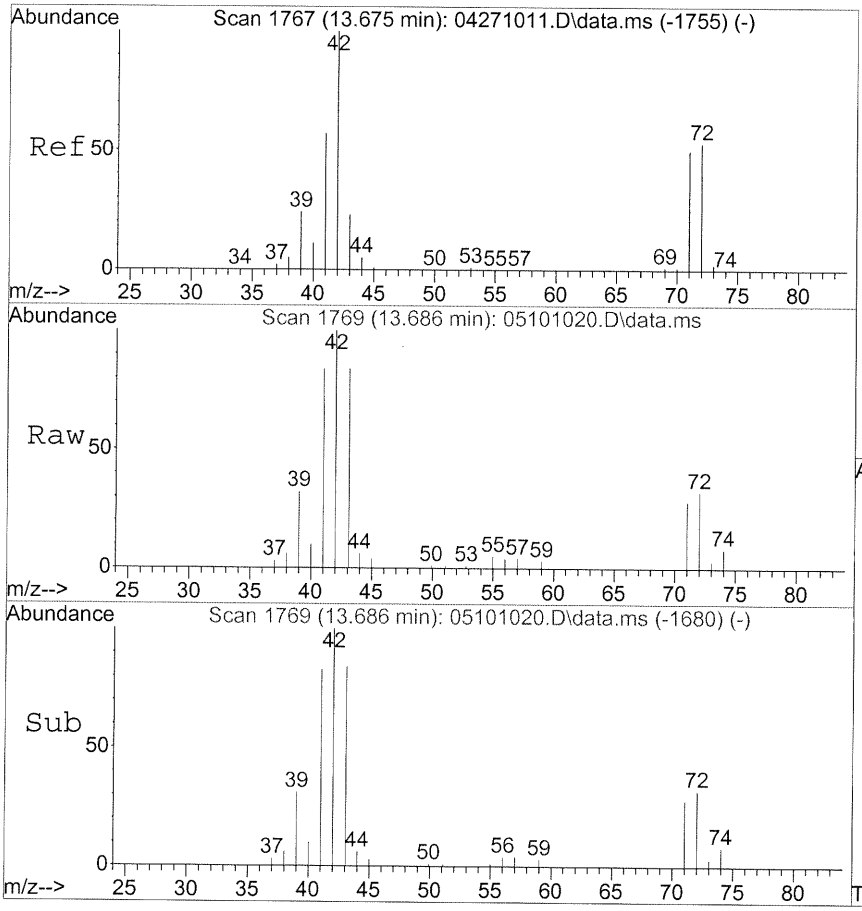


#32
Chloroform
Concen: 3.04 ng
RT: 13.10 min Scan# 1666
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 83 Resp: 125214

Ion	Ratio	Lower	Upper
83	100		
85	64.8	44.0	84.0

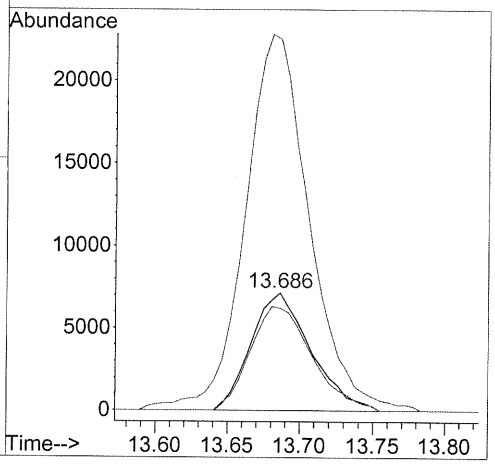


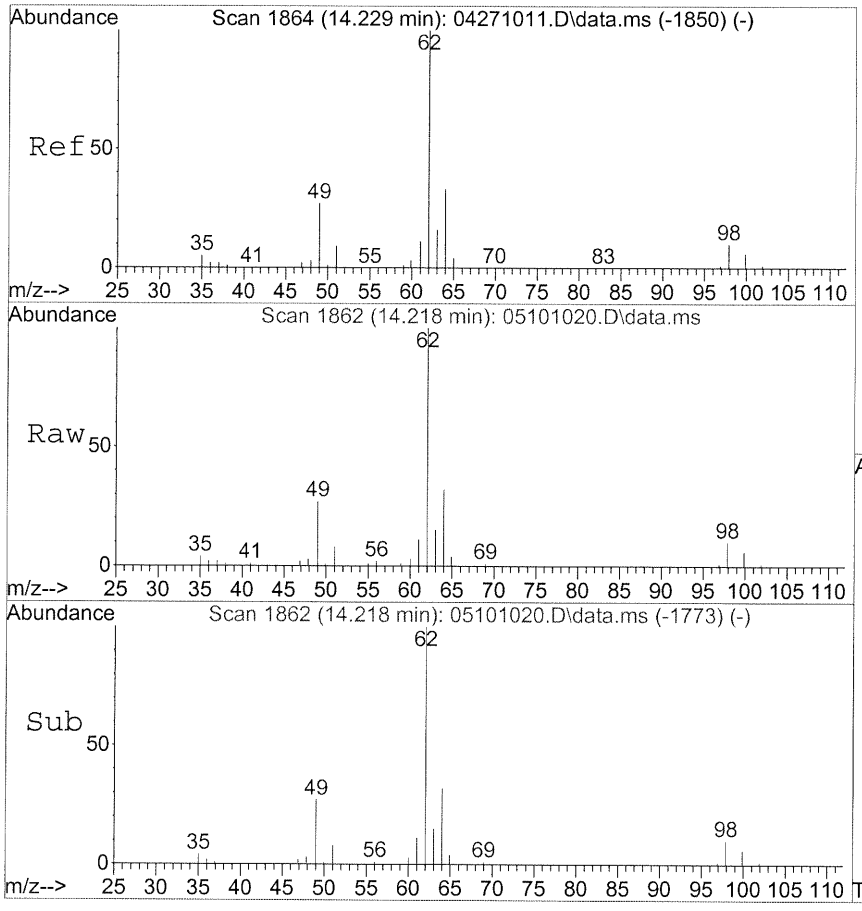


#34
Tetrahydrofuran (THF)
Concen: 1.37 ng
RT: 13.69 min Scan# 1769
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 72 Resp: 20418

Ion	Ratio	Lower	Upper
72	100		
71	91.8	76.0	116.0
42	343.8	231.9	271.9#

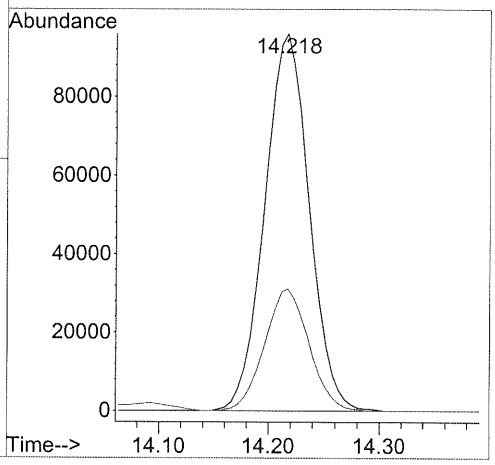


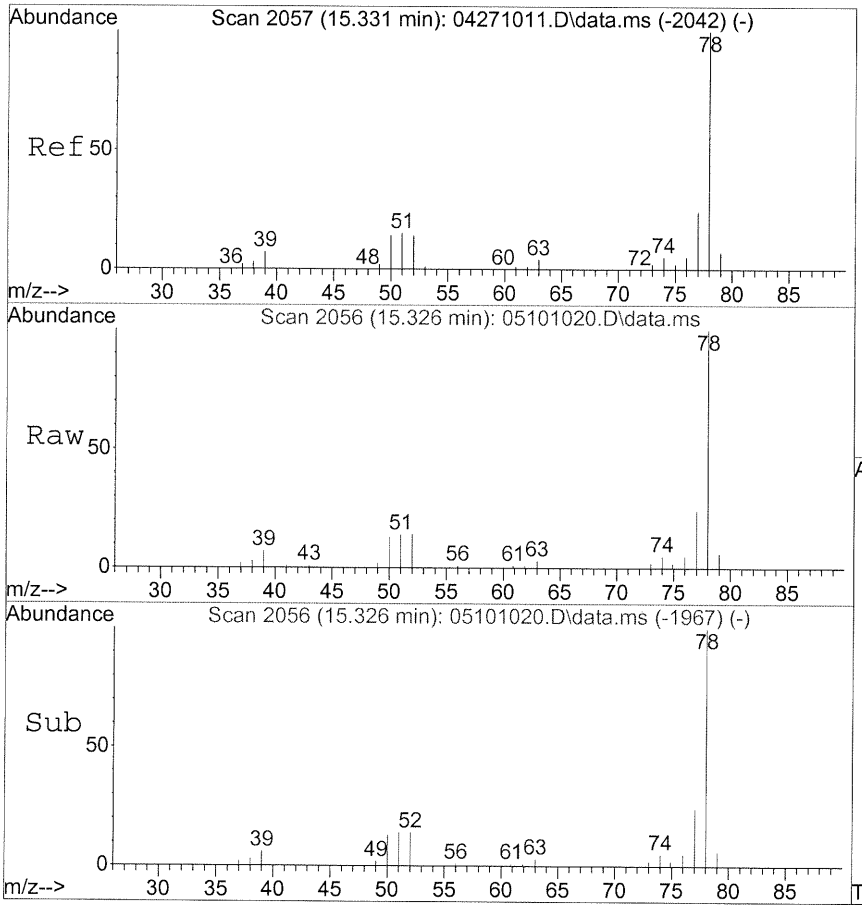


#36
1,2-Dichloroethane
Concen: 8.70 ng
RT: 14.22 min Scan# 1862
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 62 Resp: 269131

Ion	Ratio	Lower	Upper
62	100		
64	32.2	12.0	52.0

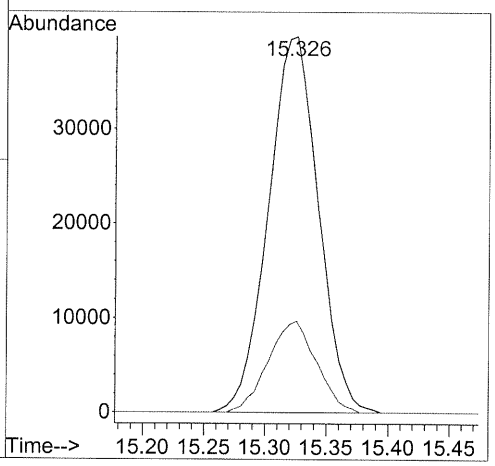


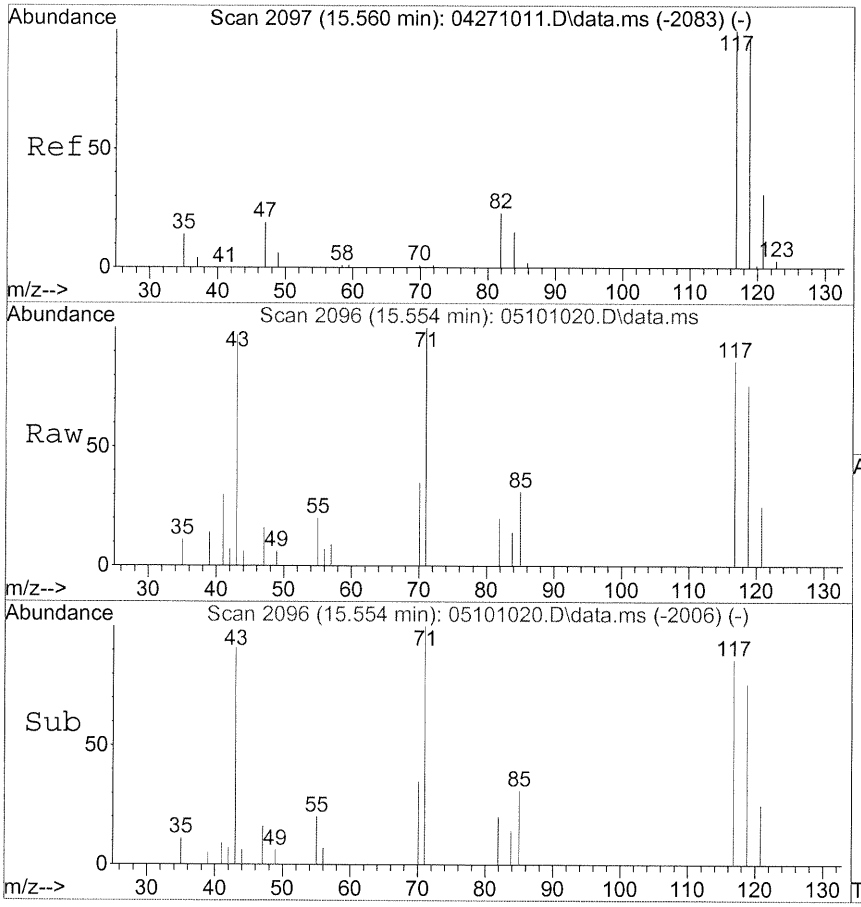


#41
Benzene
Concen: 1.10 ng
RT: 15.33 min Scan# 2056
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 78 Resp: 112628

Ion	Ratio	Lower	Upper
78	100		
77	23.4	4.4	44.4

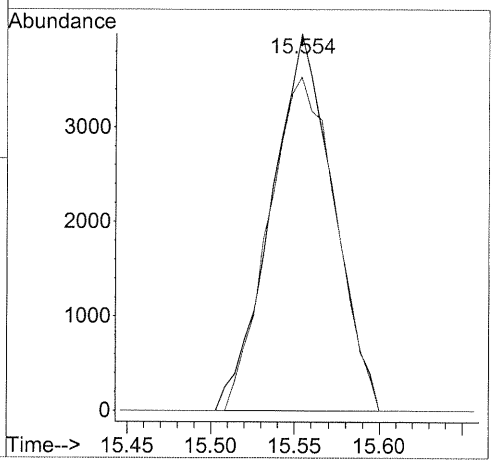


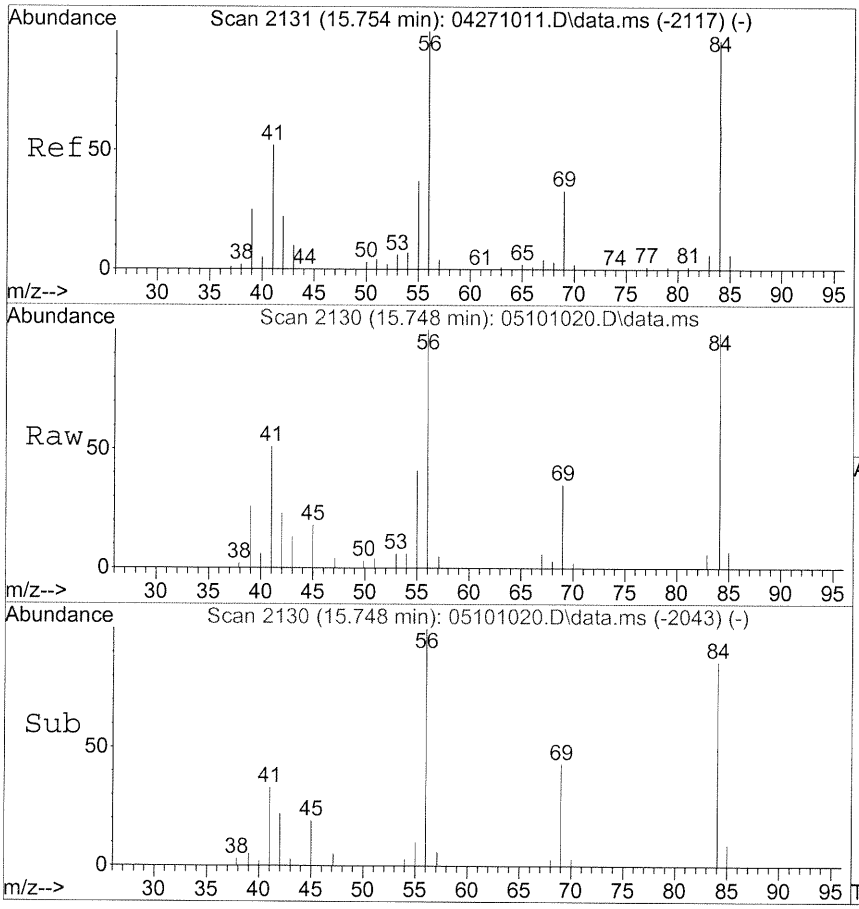


#42
Carbon Tetrachloride
Concen: 0.32 ng
RT: 15.55 min Scan# 2096
Delta R.T. 0.012 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:117 Resp: 10172

Ion	Ratio	Lower	Upper
117	100		
119	95.4	75.8	115.8

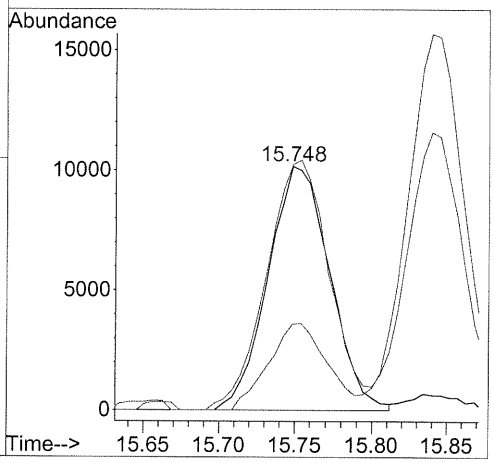


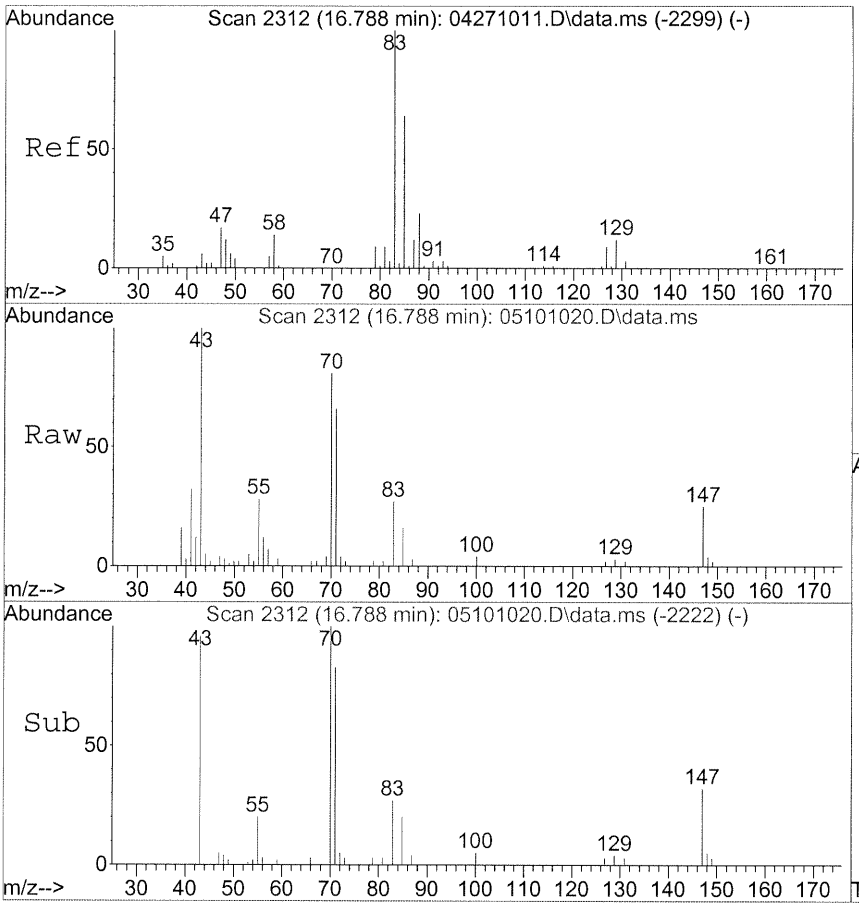


#43
Cyclohexane
Concen: 0.75 ng
RT: 15.75 min Scan# 2130
Delta R.T. -0.005 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 84 Resp: 28399

Ion	Ratio	Lower	Upper
84	100		
69	33.3	18.4	58.4
56	104.8	112.6	152.6#

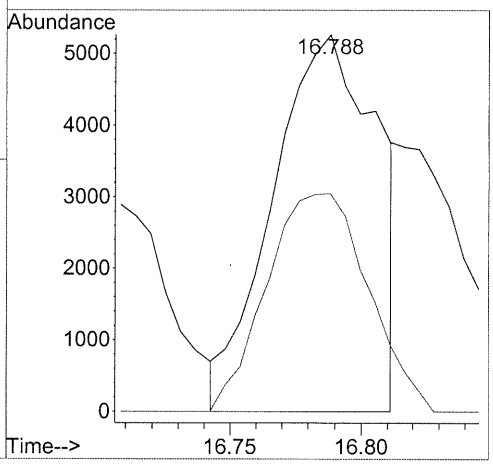


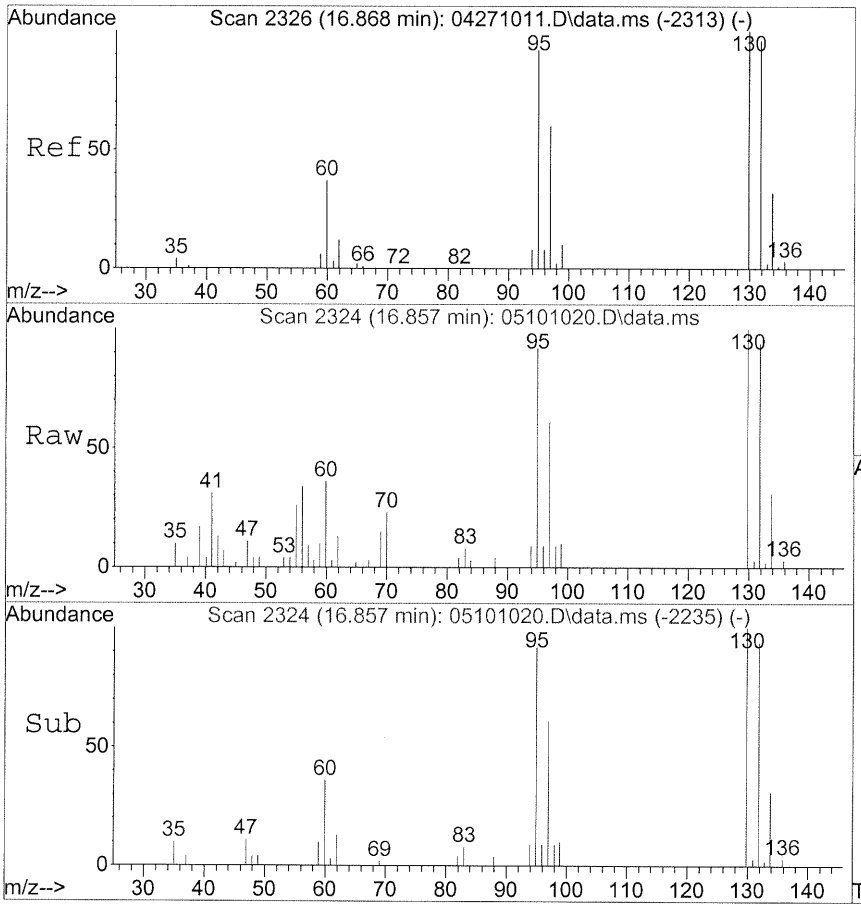


#46
Bromodichloromethane
Concen: 0.47 ng m
RT: 16.79 min Scan# 2312
Delta R.T. 0.012 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 83 Resp: 14438

Ion	Ratio	Lower	Upper
83	100		
85	56.5	42.8	82.8

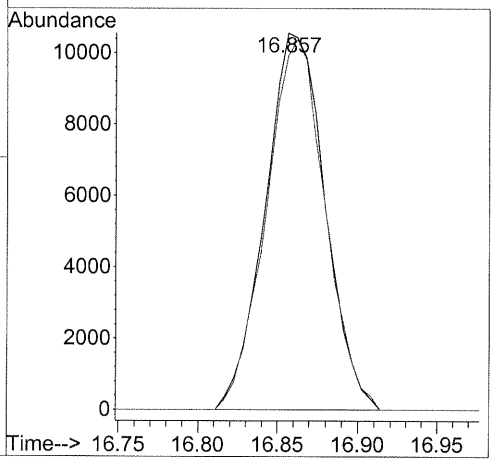


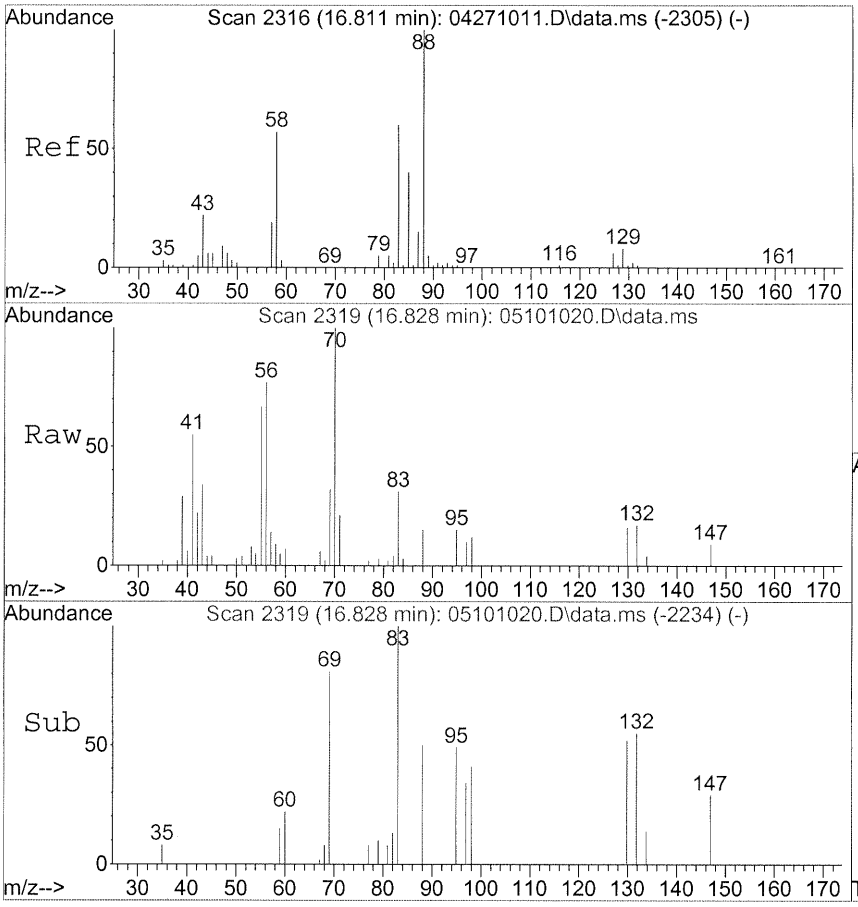


#47
Trichloroethene
Concen: 0.96 ng
RT: 16.86 min Scan# 2324
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:130 Resp: 27420

Ion	Ratio	Lower	Upper
130	100		
132	96.6	75.3	115.3

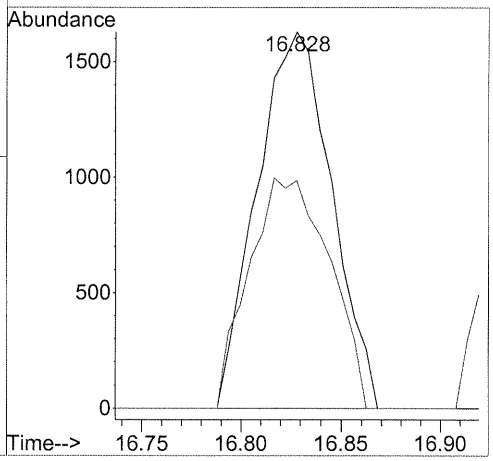


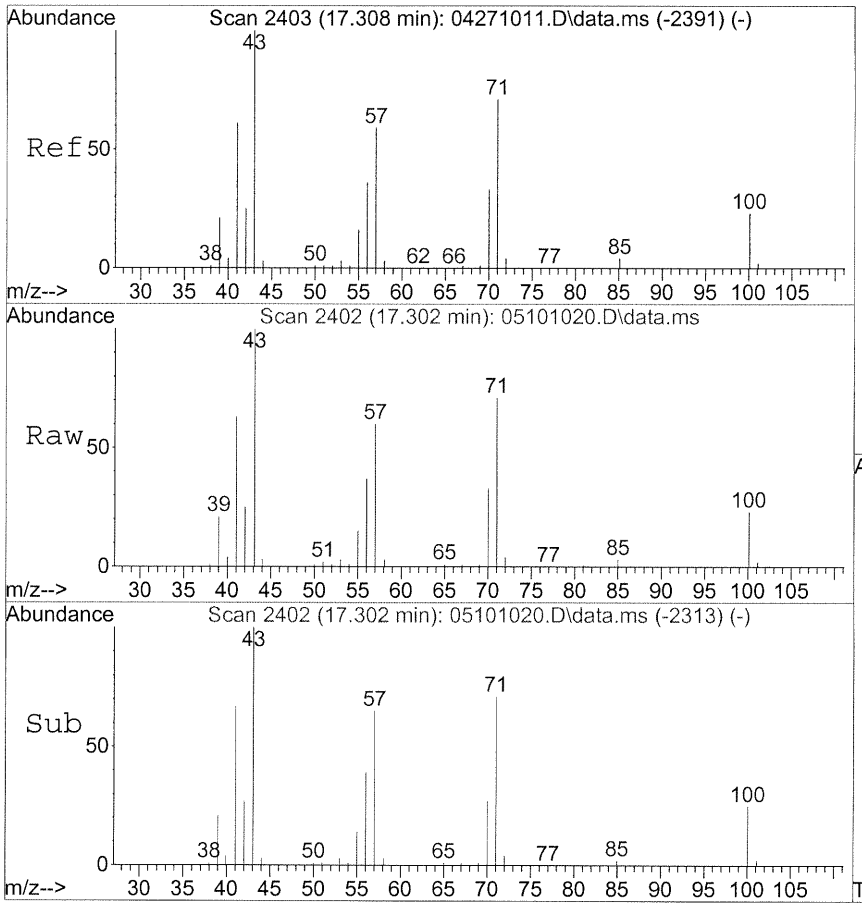


#48
1,4-Dioxane
Concen: 0.21 ng
RT: 16.83 min Scan# 2319
Delta R.T. -0.017 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 88 Resp: 4208

Ion	Ratio	Lower	Upper
88	100		
58	66.1	52.5	92.5

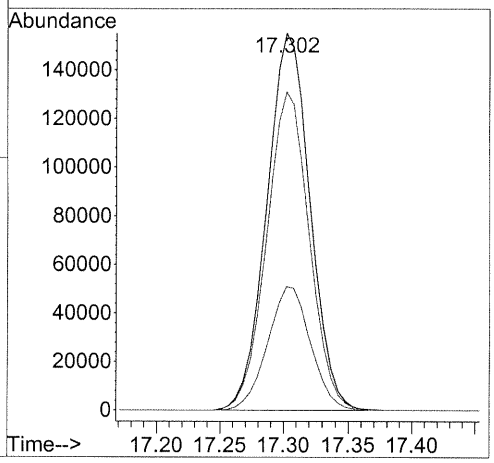


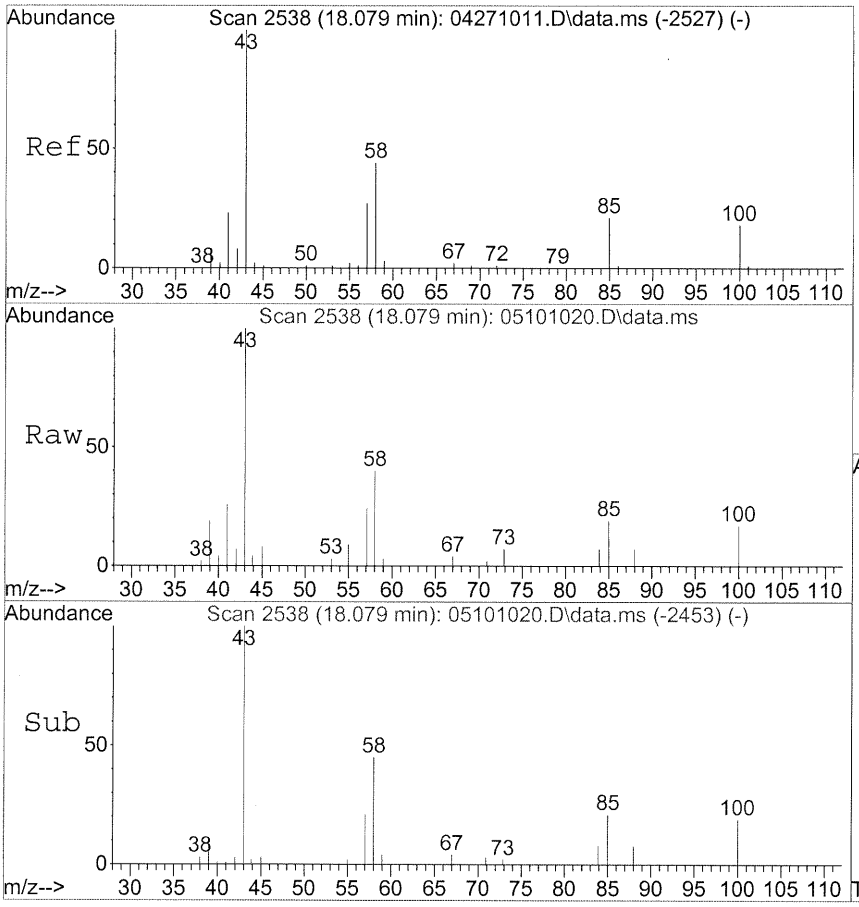


#51
n-Heptane
Concen: 15.06 ng
RT: 17.30 min Scan# 2402
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 71 Resp: 365837

Ion	Ratio	Lower	Upper
71	100		
57	83.2	74.9	114.9
100	32.4	5.0	45.0

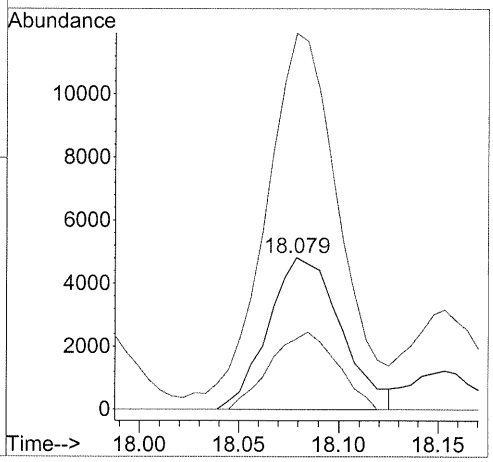


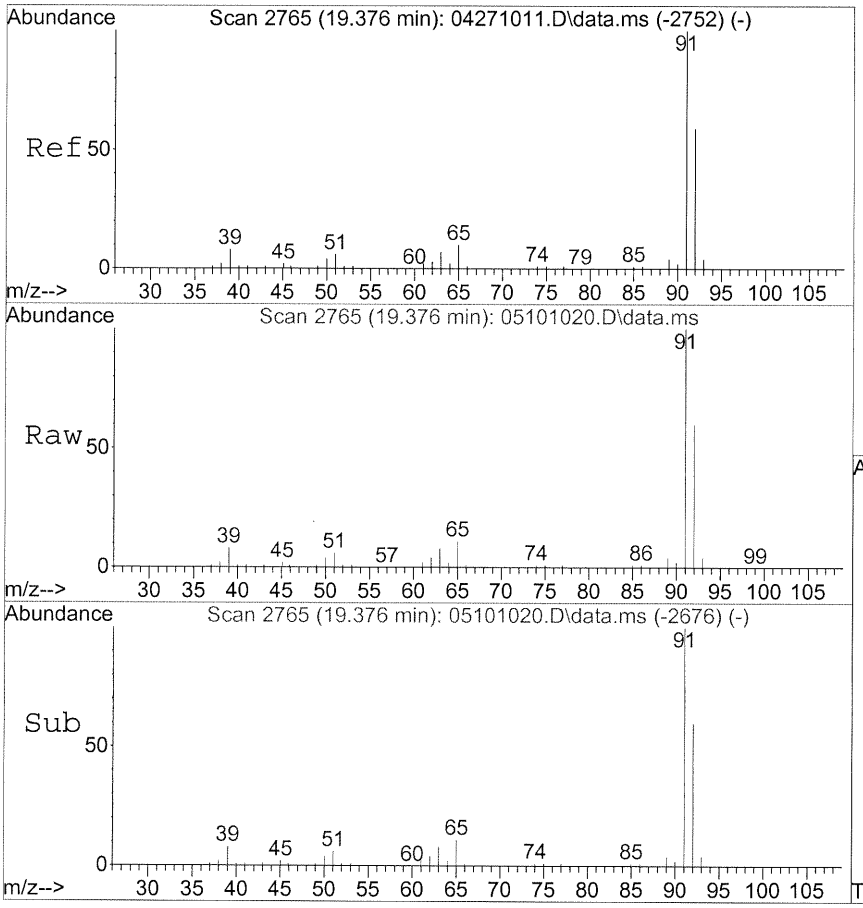


#53
4-Methyl-2-pentanone
Concen: 0.62 ng
RT: 18.08 min Scan# 2538
Delta R.T. -0.017 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 58 Resp: 12064

Ion	Ratio	Lower	Upper
58	100		
43	233.9	207.1	310.7
85	46.9	31.4	47.2

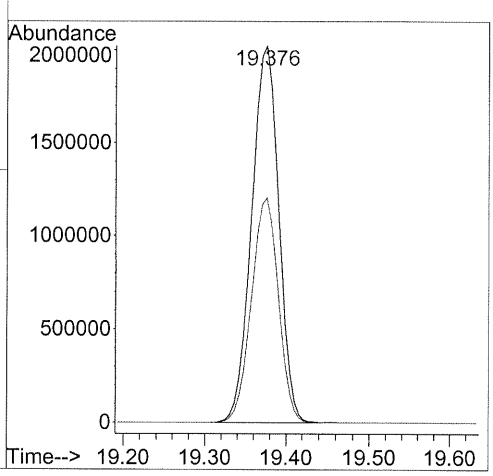


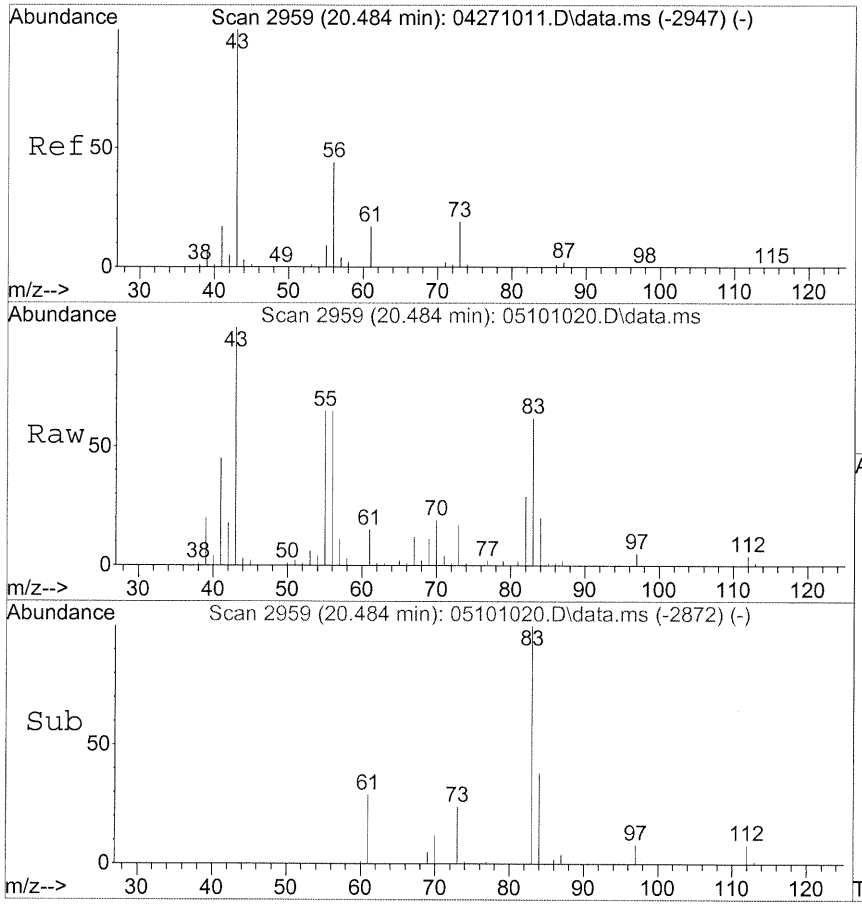


#58
Toluene
Concen: 34.90 ng
RT: 19.38 min Scan# 2765
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 91 Resp: 4674067

Ion	Ratio	Lower	Upper
91	100		
92	59.2	37.6	77.6

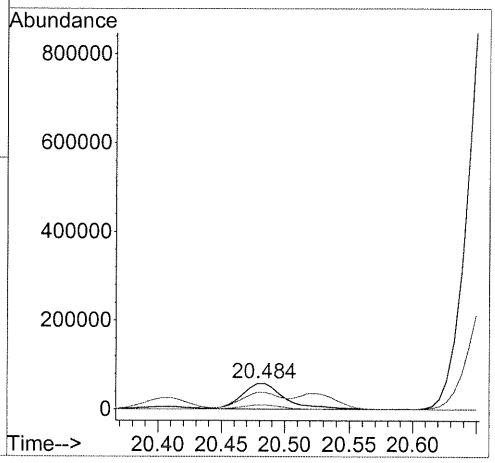


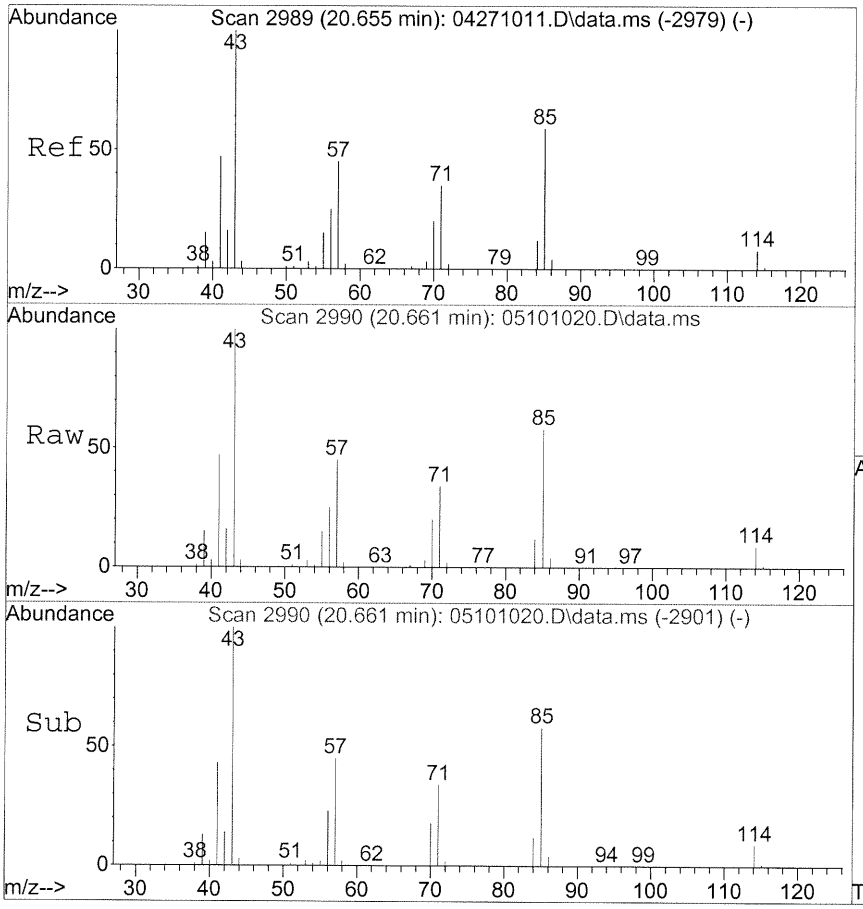


#62
n-Butyl Acetate
Concen: 2.10 ng
RT: 20.48 min Scan# 2959
Delta R.T. -0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 43 Resp: 135693

Ion	Ratio	Lower	Upper
43	100		
56	60.5	19.7	59.7#
73	15.9	0.0	34.2

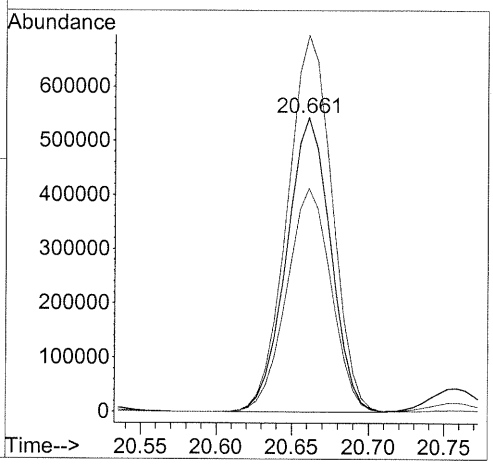


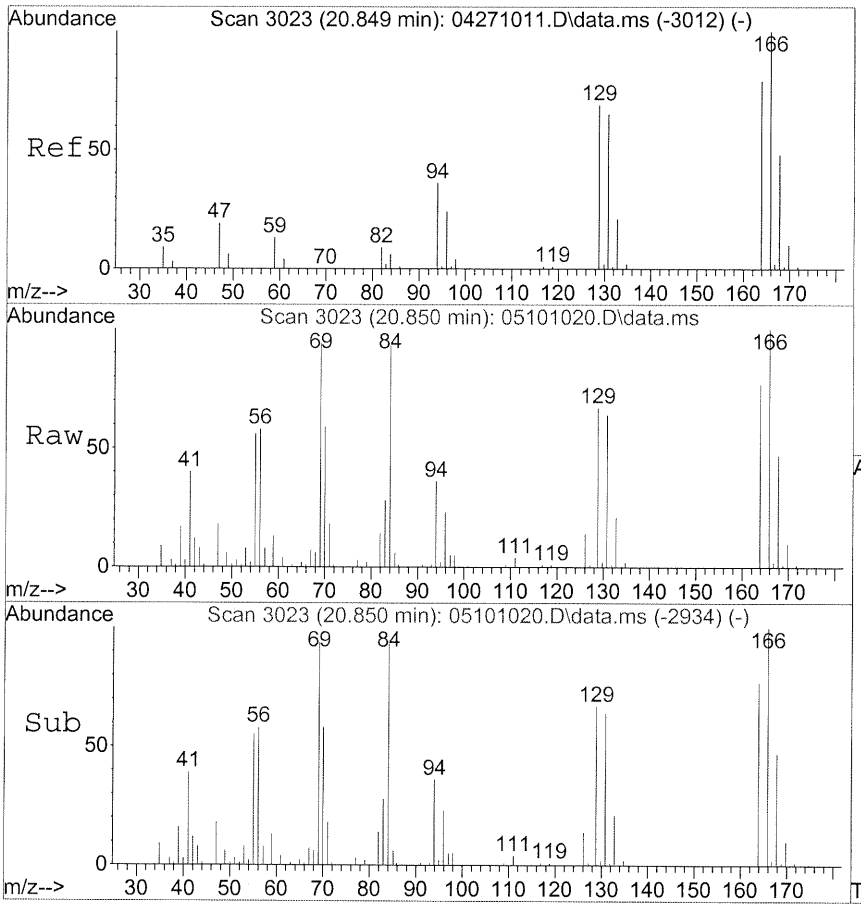


#63
n-Octane
Concen: 45.12 ng
RT: 20.66 min Scan# 2990
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 57 Resp: 1084569

Ion	Ratio	Lower	Upper
57	100		
85	129.9	81.8	122.8#
71	76.5	55.0	82.6

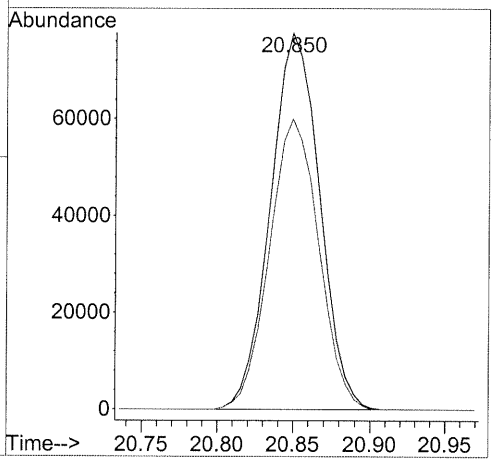


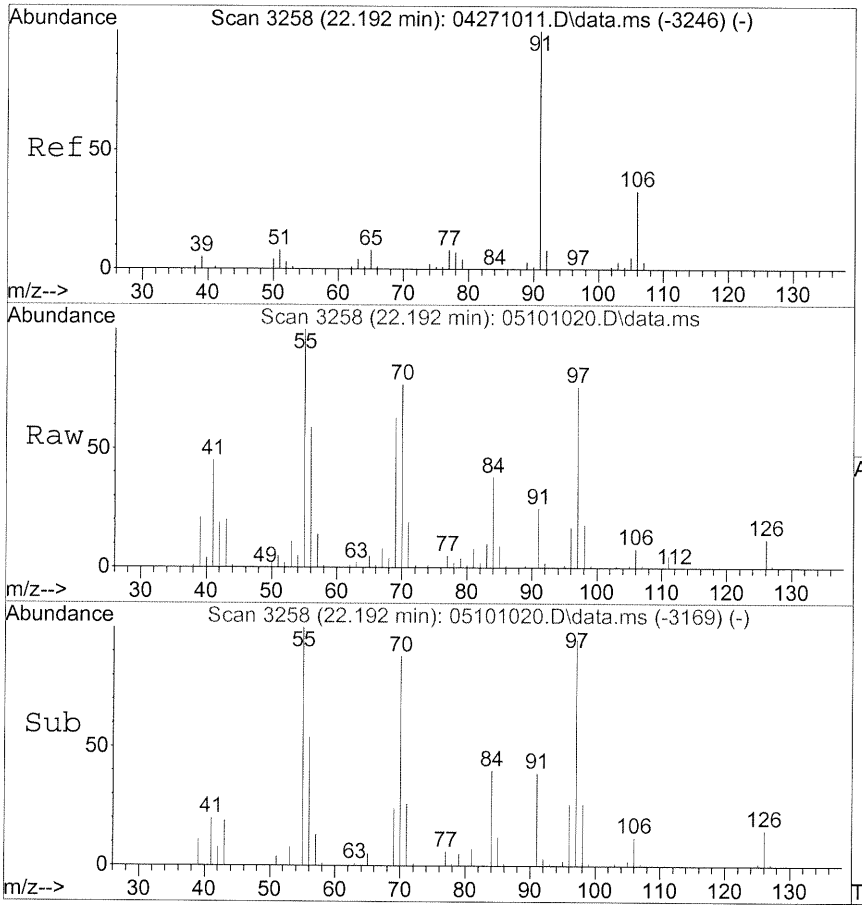


#64
Tetrachloroethene
Concen: 4.15 ng
RT: 20.85 min Scan# 3023
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:166 Resp: 173843

Ion	Ratio	Lower	Upper
166	100		
164	77.4	58.4	98.4

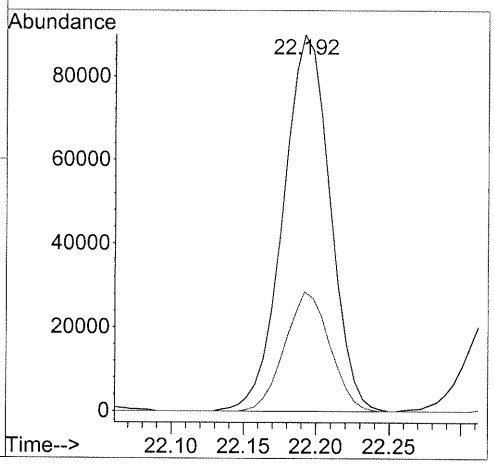


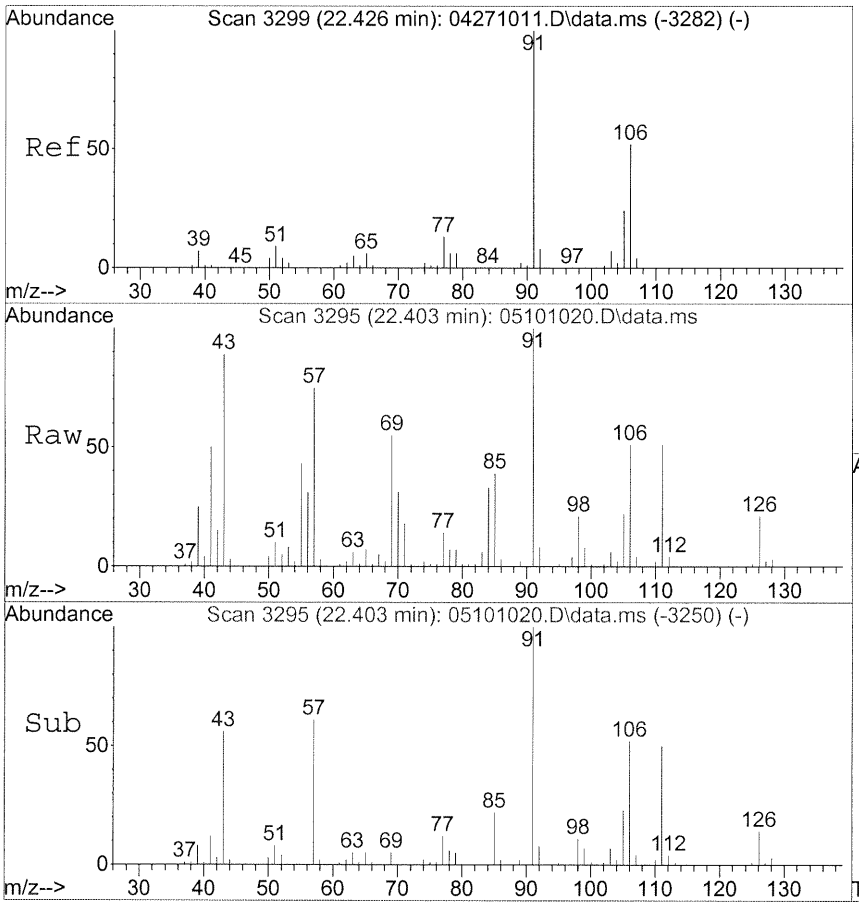


#66
Ethylbenzene
Concen: 1.37 ng
RT: 22.19 min Scan# 3258
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 91 Resp: 201612

Ion	Ratio	Lower	Upper
91	100		
106	30.2	9.8	49.8

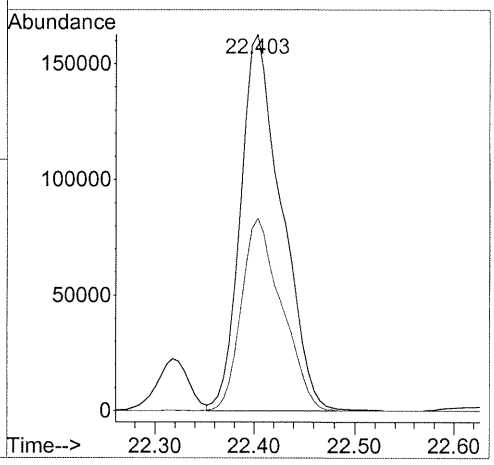


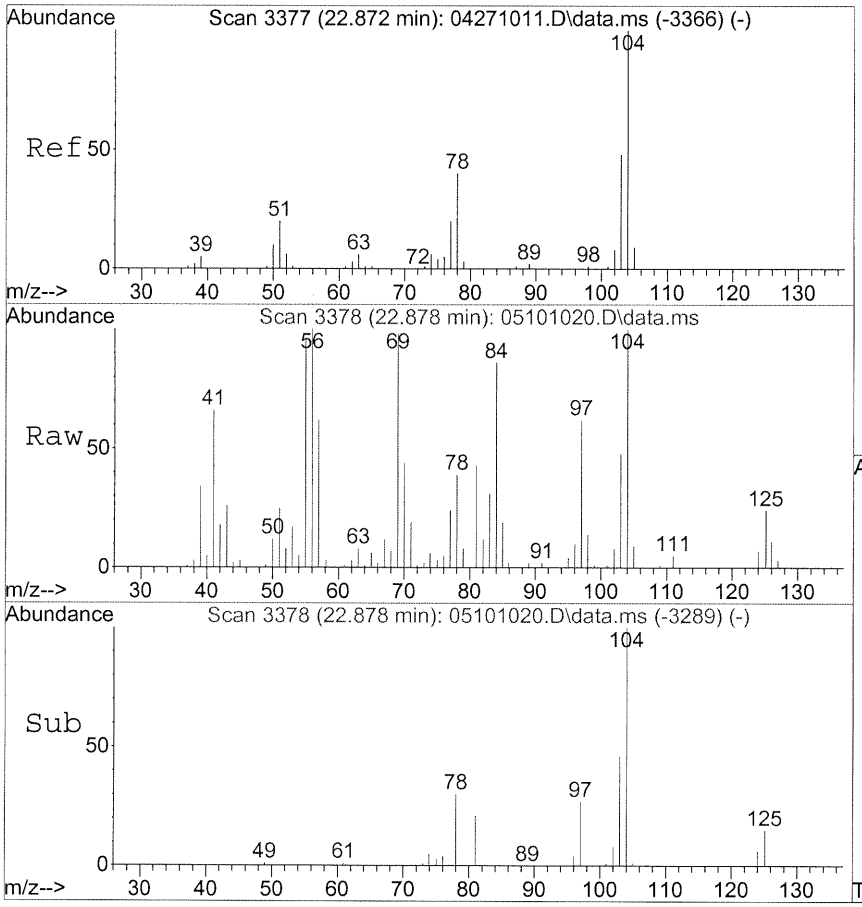


#67
m- & p-Xylenes
Concen: 4.05 ng
RT: 22.40 min Scan# 3295
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 91 Resp: 469898

Ion	Ratio	Lower	Upper
91	100		
106	50.2	26.8	66.8

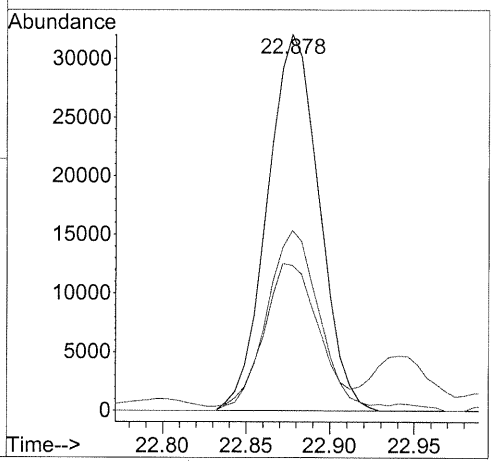


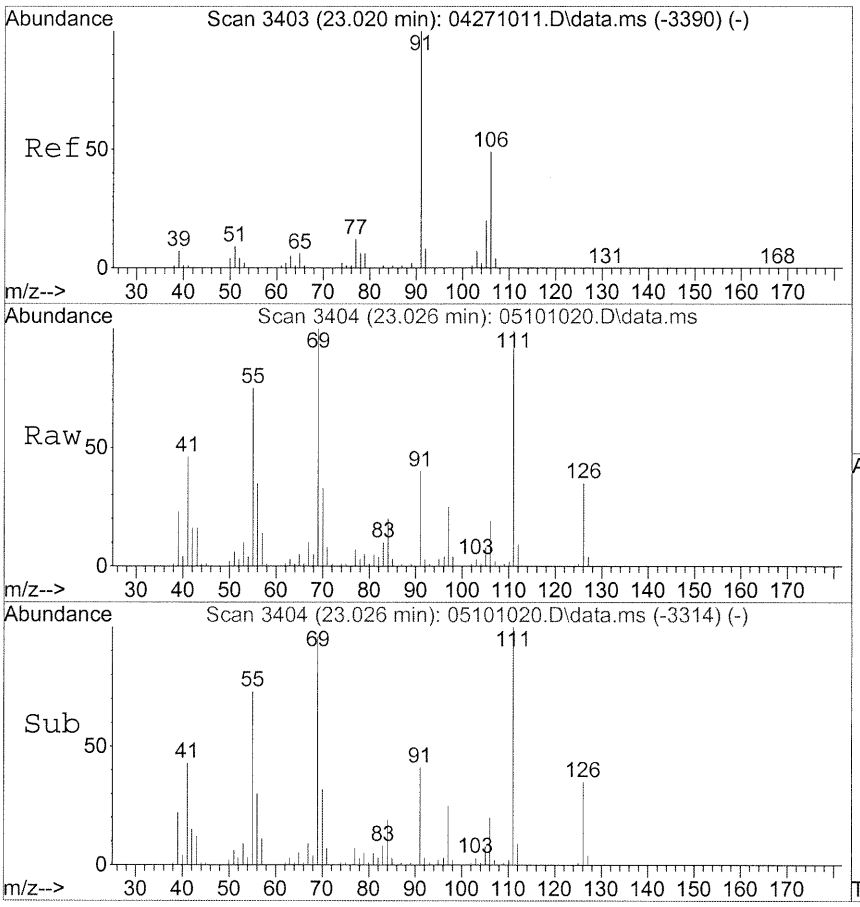


#69
Styrene
Concen: 0.76 ng
RT: 22.88 min Scan# 3378
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:104 Resp: 68997

Ion	Ratio	Lower	Upper
104	100		
78	42.0	26.1	66.1
103	49.6	28.7	68.7

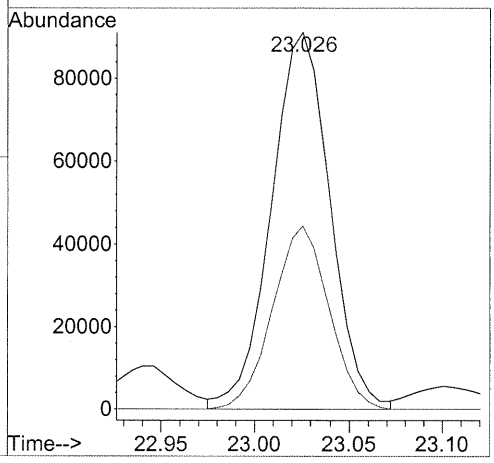


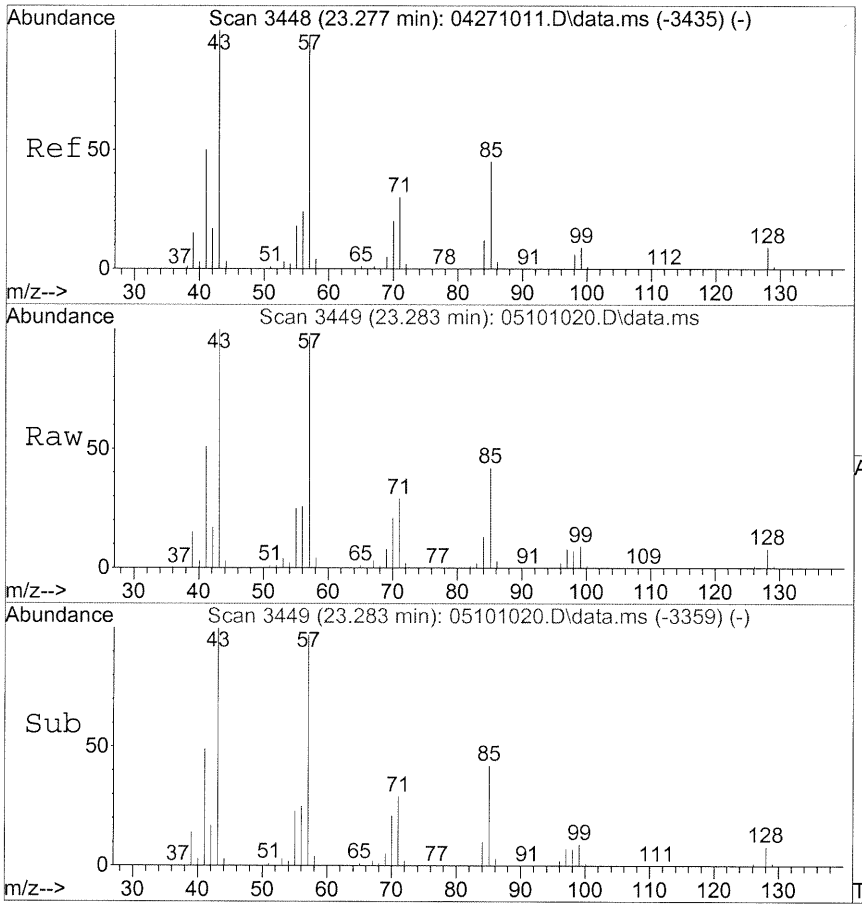


#70
o-Xylene
Concen: 1.66 ng
RT: 23.03 min Scan# 3404
Delta R.T. 0.012 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 91 Resp: 196082

Ion	Ratio	Lower	Upper
91	100		
106	46.6	24.4	64.4

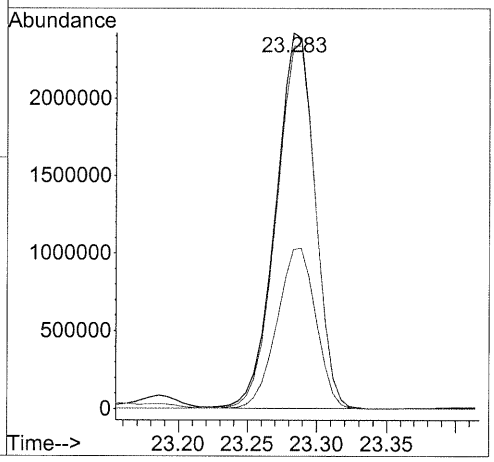


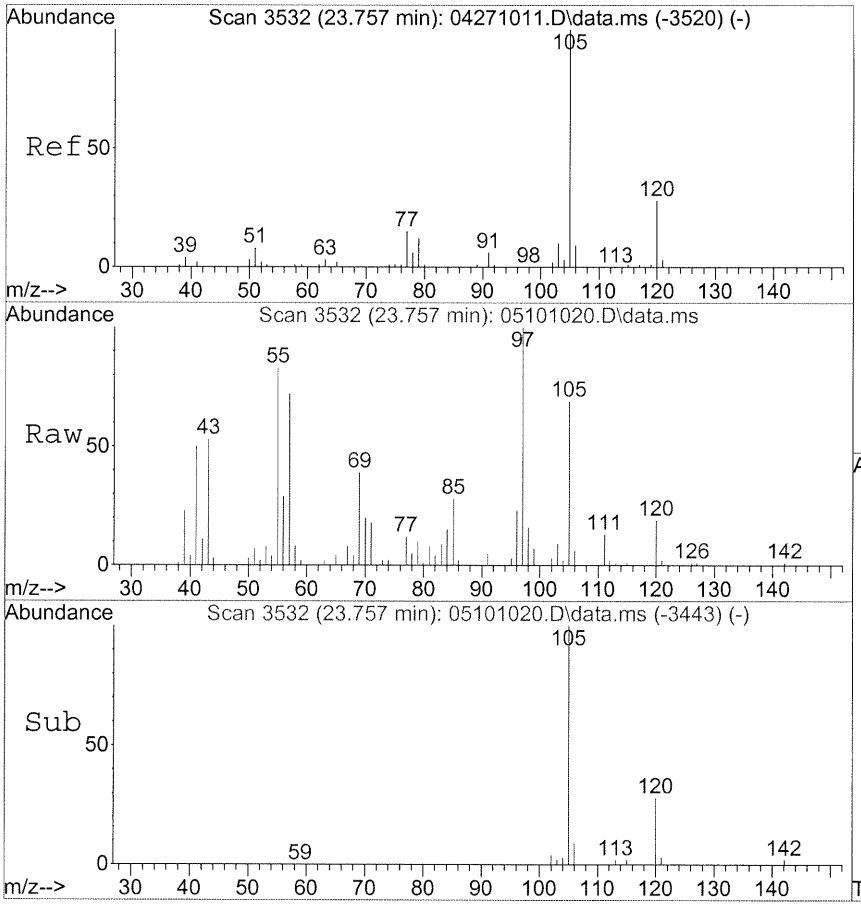


#71
n-Nonane
Concen: 92.35 ng
RT: 23.28 min Scan# 3449
Delta R.T. 0.012 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 43 Resp: 4764261

Ion	Ratio	Lower	Upper
43	100		
57	96.2	65.6	105.6
85	42.4	9.9	49.9

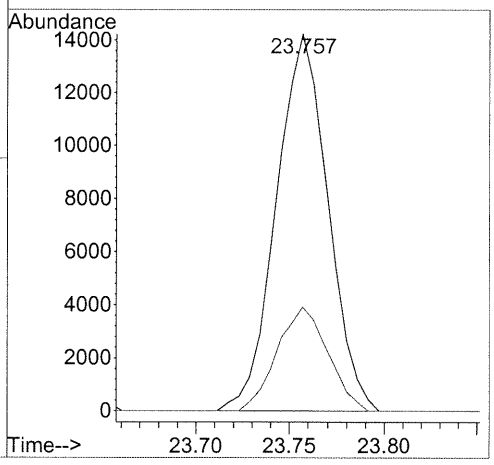


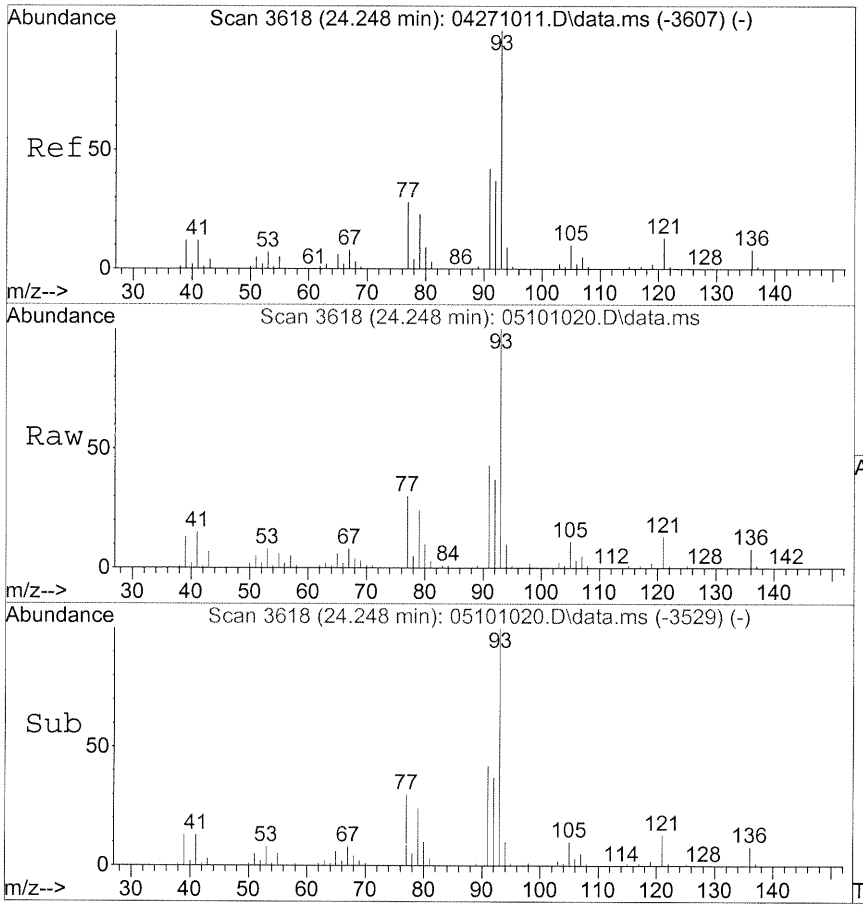


#74
Cumene
Concen: 0.17 ng
RT: 23.76 min Scan# 3532
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:105 Resp: 26862

Ion	Ratio	Lower	Upper
105	100		
120	27.0	5.2	45.2

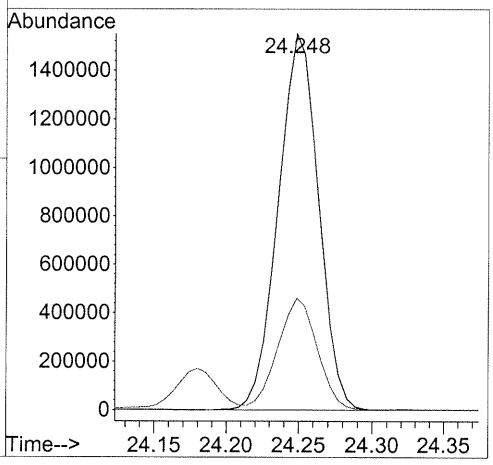


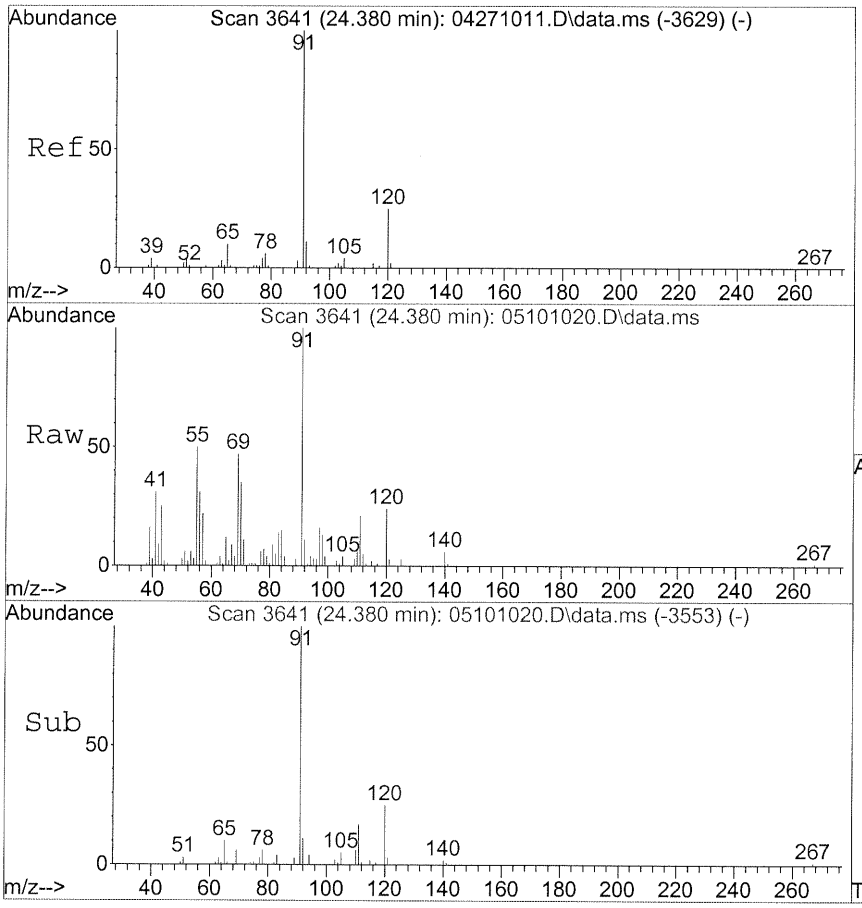


#75
alpha-Pinene
Concen: 39.67 ng
RT: 24.25 min Scan# 3618
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 93 Resp: 2974441

Ion	Ratio	Lower	Upper
93	100		
77	29.0	12.3	52.3

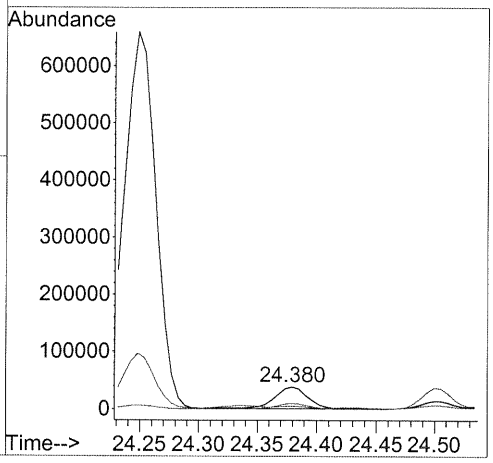


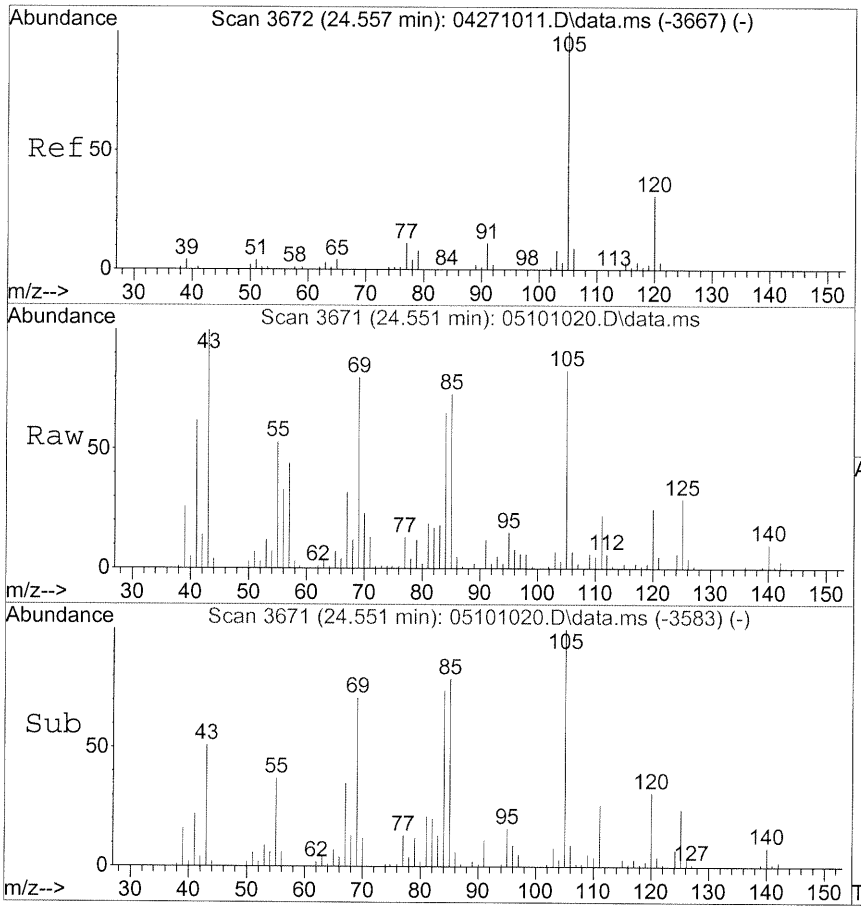


#76
n-Propylbenzene
Concen: 0.40 ng
RT: 24.38 min Scan# 3641
Delta R.T. 0.000 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 91 Resp: 75337

Ion	Ratio	Lower	Upper
91	100		
120	22.7	0.9	40.9
65	8.8	0.0	31.2

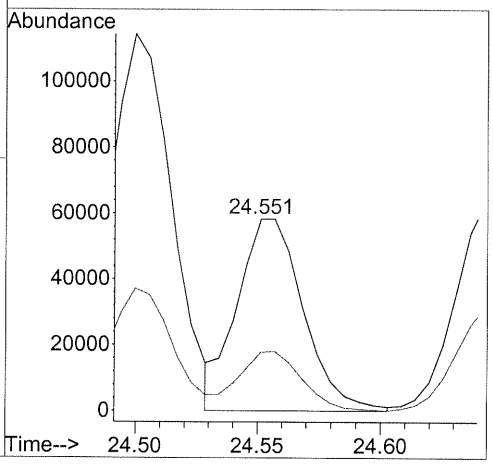


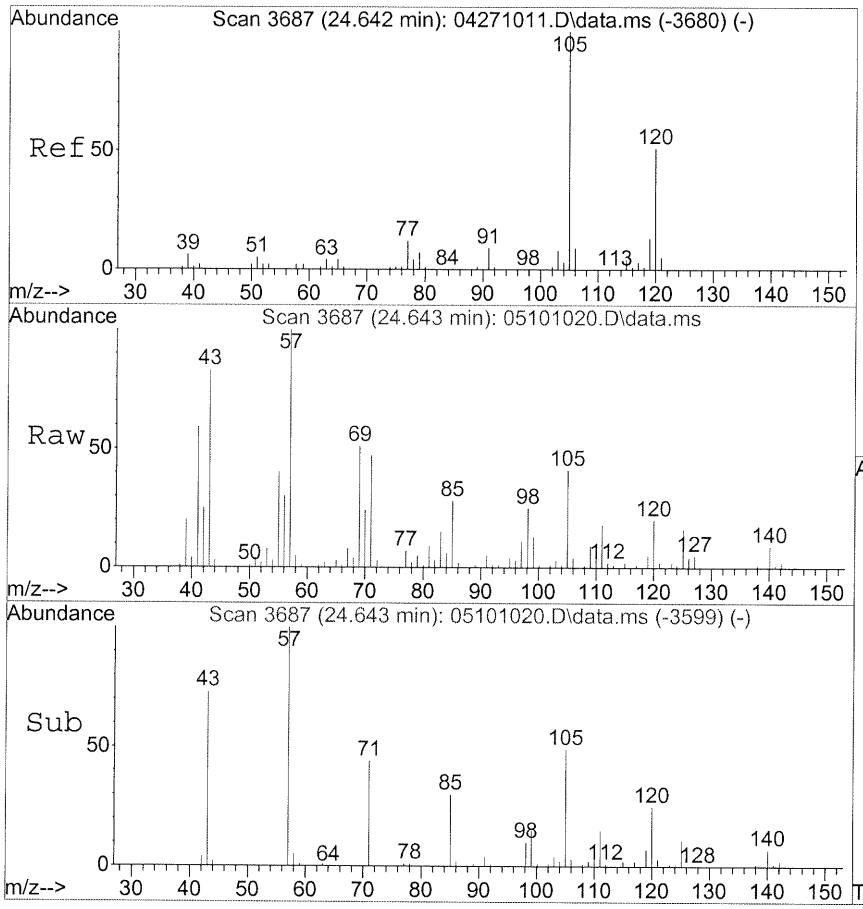


#78
4-Ethyltoluene
Concen: 0.73 ng
RT: 24.55 min Scan# 3671
Delta R.T. 0.000 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:105 Resp: 109397

Ion	Ratio	Lower	Upper
105	100		
120	29.7	8.2	48.2

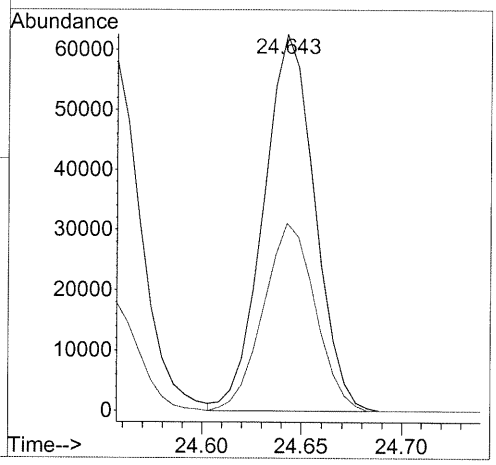


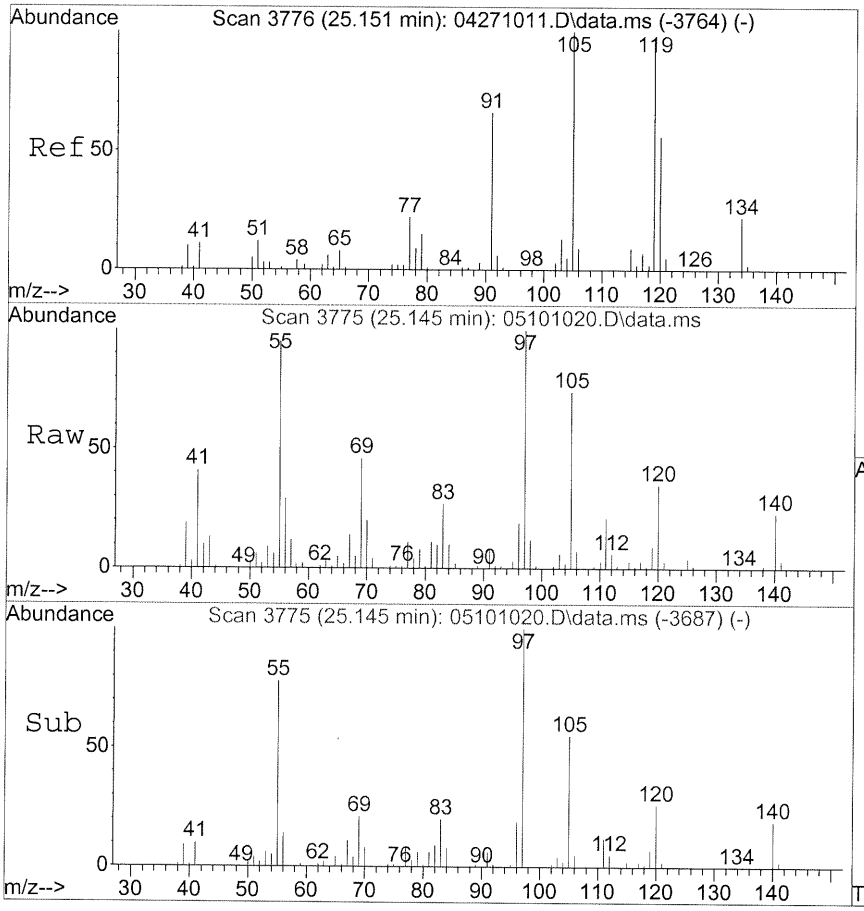


#79
1,3,5-Trimethylbenzene
Concen: 0.92 ng
RT: 24.64 min Scan# 3687
Delta R.T. 0.000 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:105 Resp: 112083

Ion	Ratio	Lower	Upper
105	100		
120	50.1	26.2	66.2

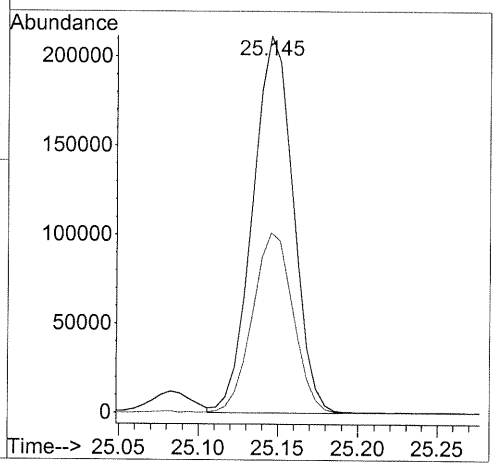


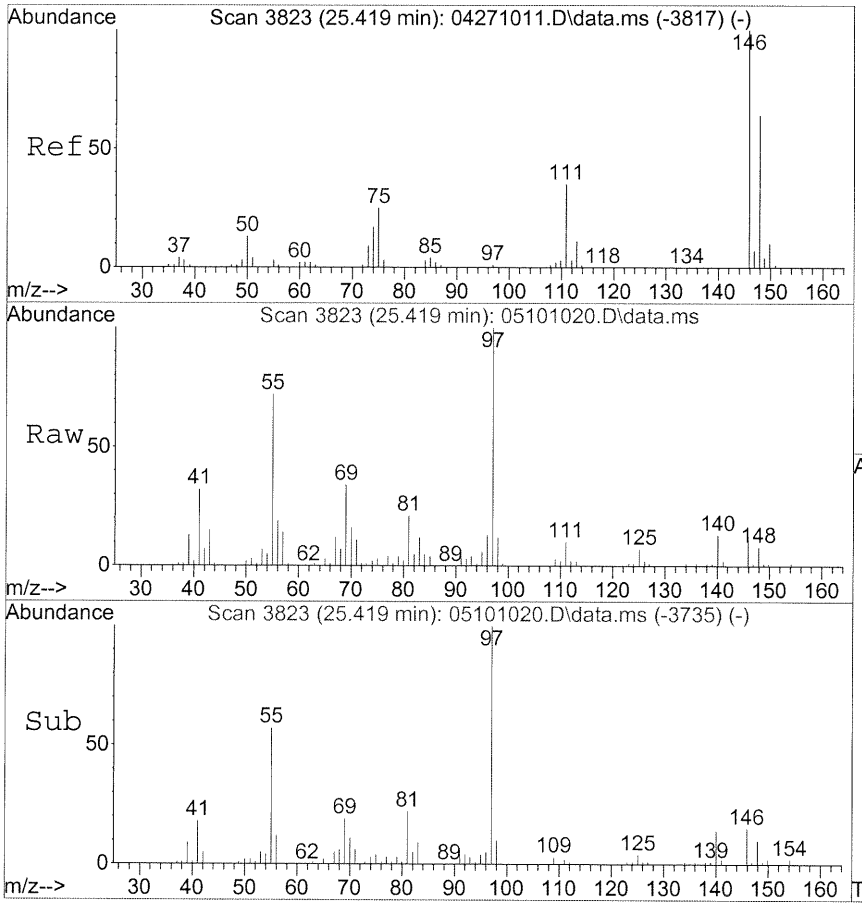


#82
1,2,4-Trimethylbenzene
Concen: 2.98 ng
RT: 25.15 min Scan# 3775
Delta R.T. 0.000 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:105 Resp: 375549

Ion	Ratio	Lower	Upper
105	100		
120	47.9	30.1	70.1

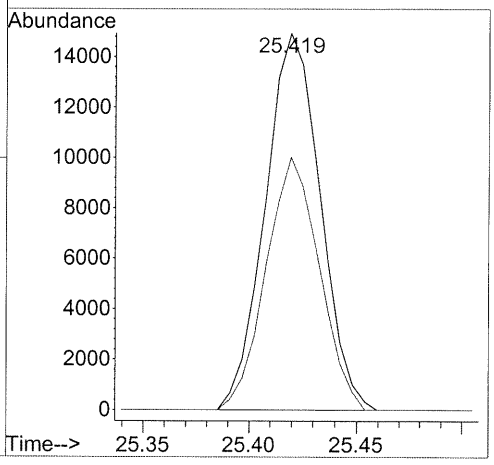


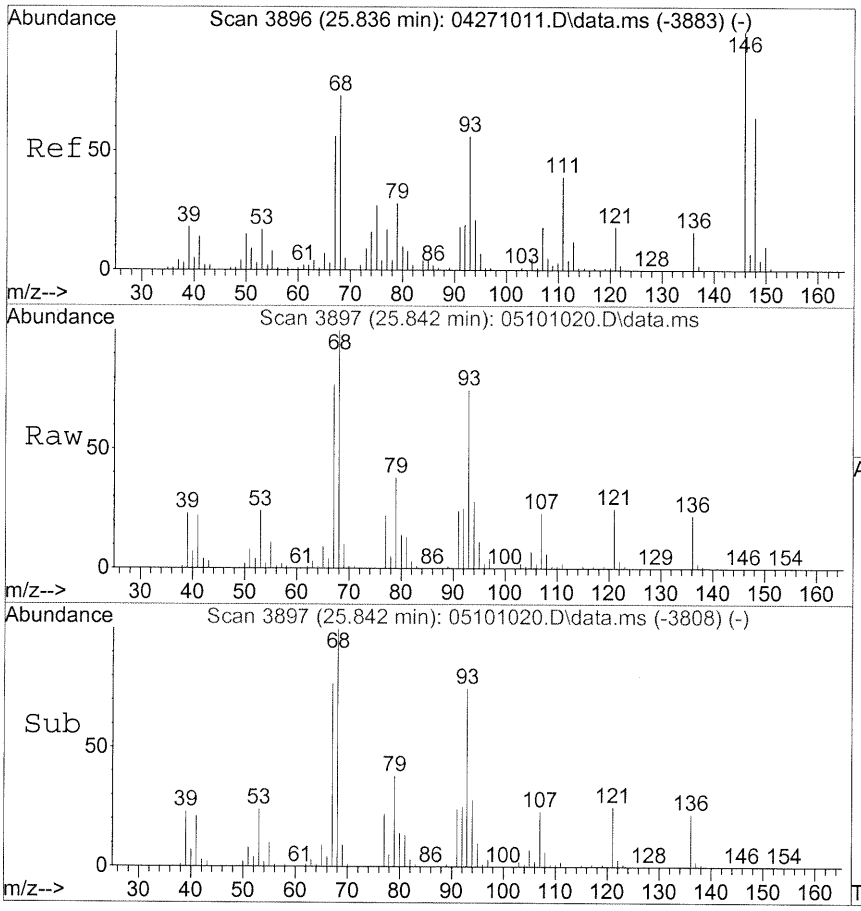


#86
1,4-Dichlorobenzene
Concen: 0.33 ng
RT: 25.42 min Scan# 3823
Delta R.T. 0.000 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion:146 Resp: 26577

Ion	Ratio	Lower	Upper
146	100		
148	65.0	43.8	83.8

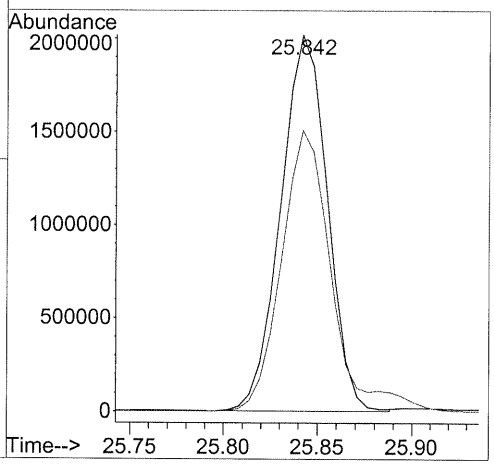


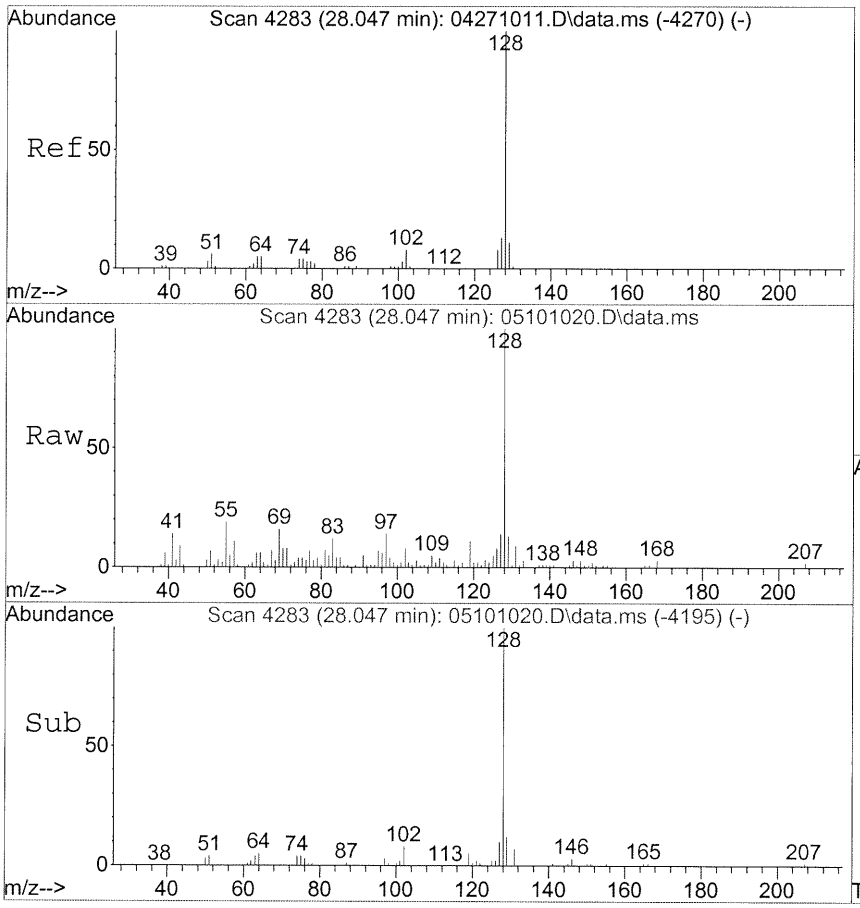


#91
d-Limonene
Concen: 79.15 ng
RT: 25.84 min Scan# 3897
Delta R.T. 0.006 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

Tgt Ion: 68 Resp: 3458580

Ion	Ratio	Lower	Upper
68	100		
93	80.3	42.0	82.0

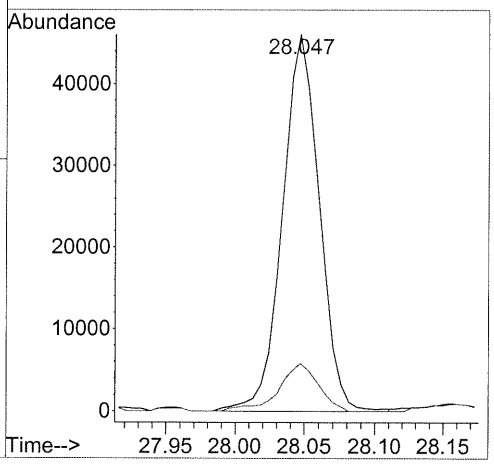




#95
Naphthalene
Concen: 0.53 ng
RT: 28.05 min Scan# 4283
Delta R.T. 0.000 min
Lab File: 05101020.D
Acq: 11 May 2010 1:40

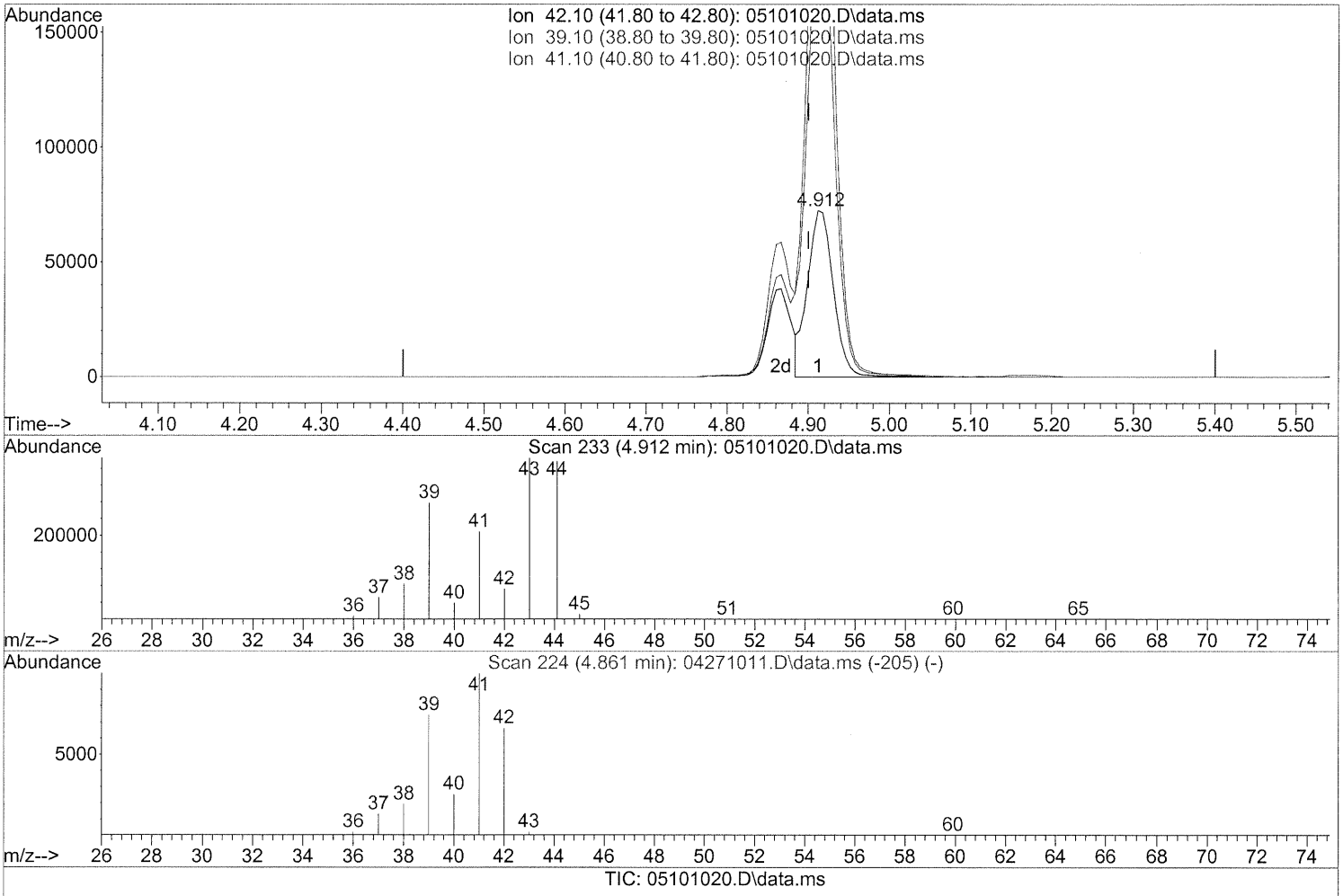
Tgt Ion:128 Resp: 83917

Ion	Ratio	Lower	Upper
128	100		
129	13.5	0.0	31.1



Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101020.D\data.ms

(2) Propene (T)

4.912min (+0.012) 7.54ng

response 161588

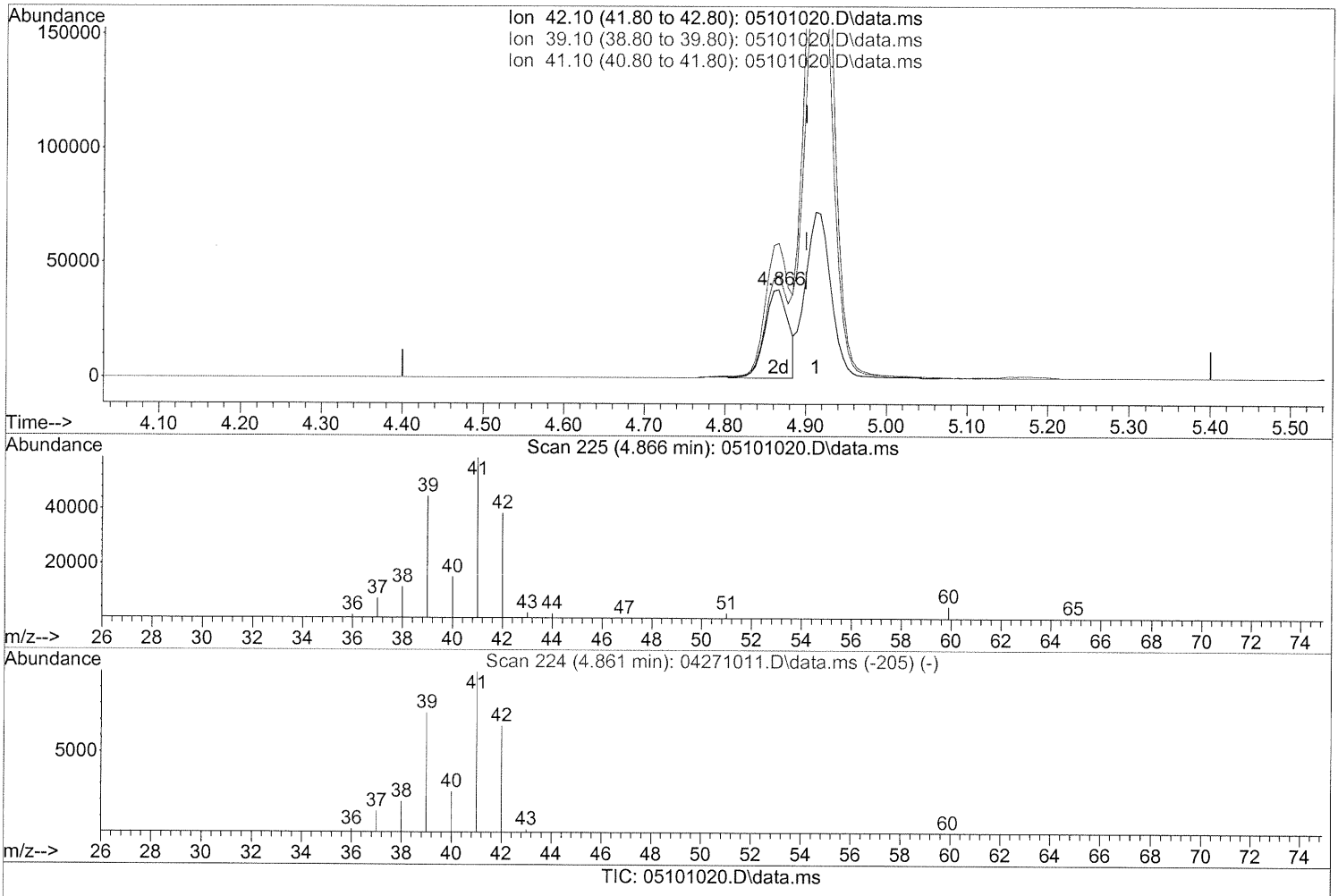
Ion	Exp%	Act%
42.10	100	100
39.10	112.20	387.84#
41.10	153.90	290.16#
0.00	0.00	0.00

MP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101020.D\data.ms

(2) Propene (T)

4.866min (-0.034) 3.55ng m

response 76153

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	822.95#
41.10	153.90	615.69#
0.00	0.00	0.00

HP→IC

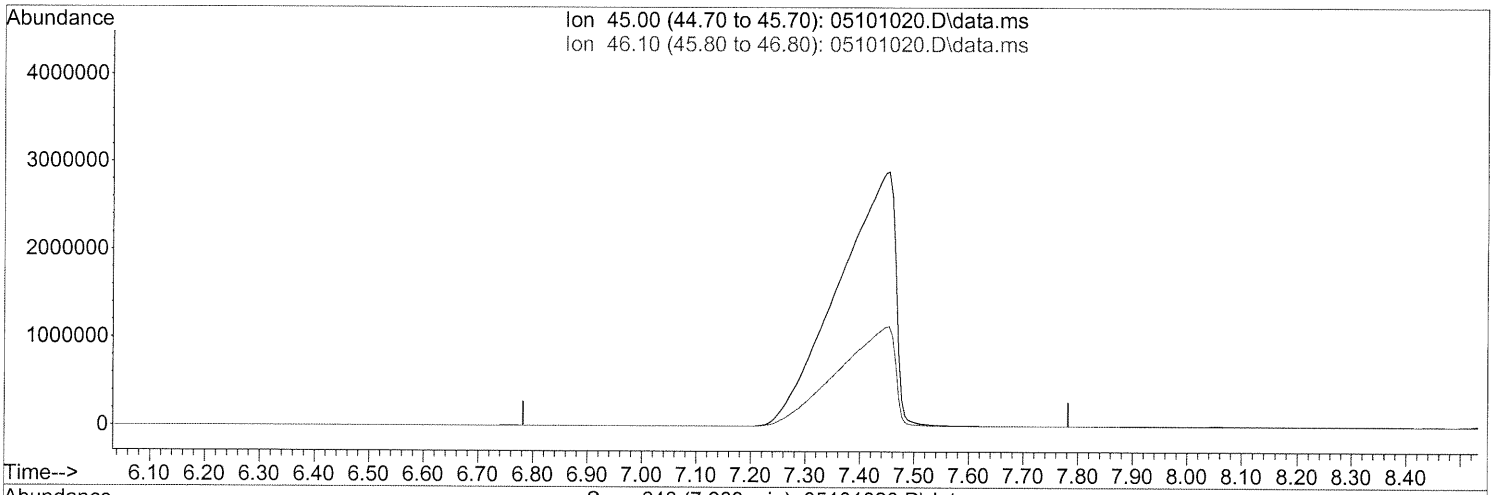
184 5/17/10

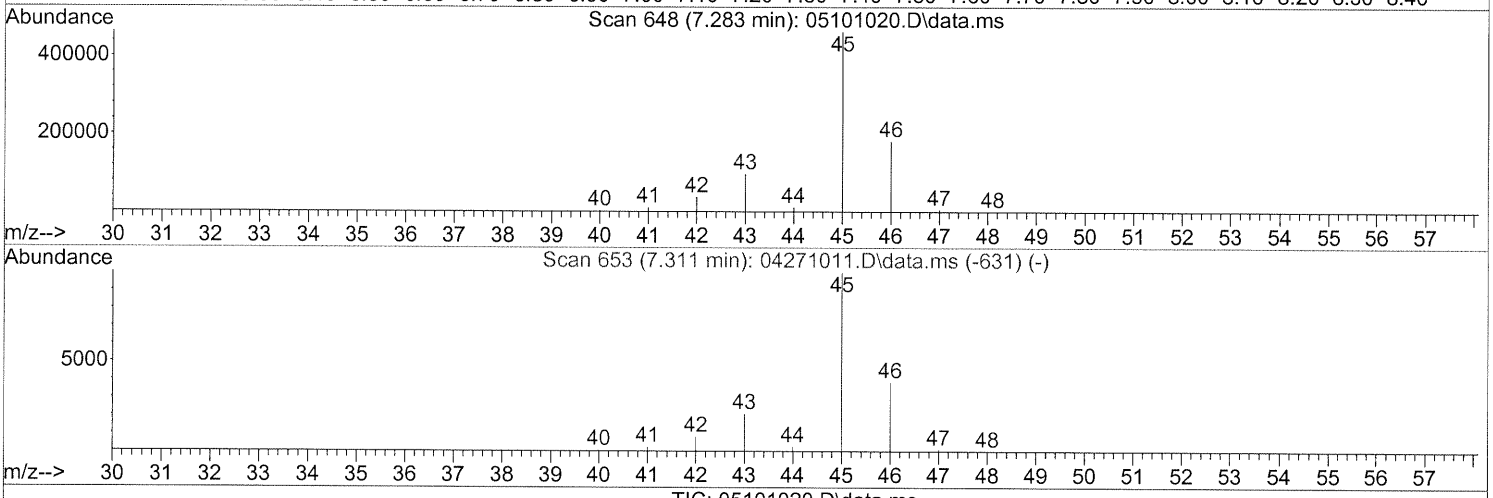
5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration





TIC: 05101020.D\data.ms

(10) Ethanol (T)

7.283min (-7.283) 0.00ng

response 0

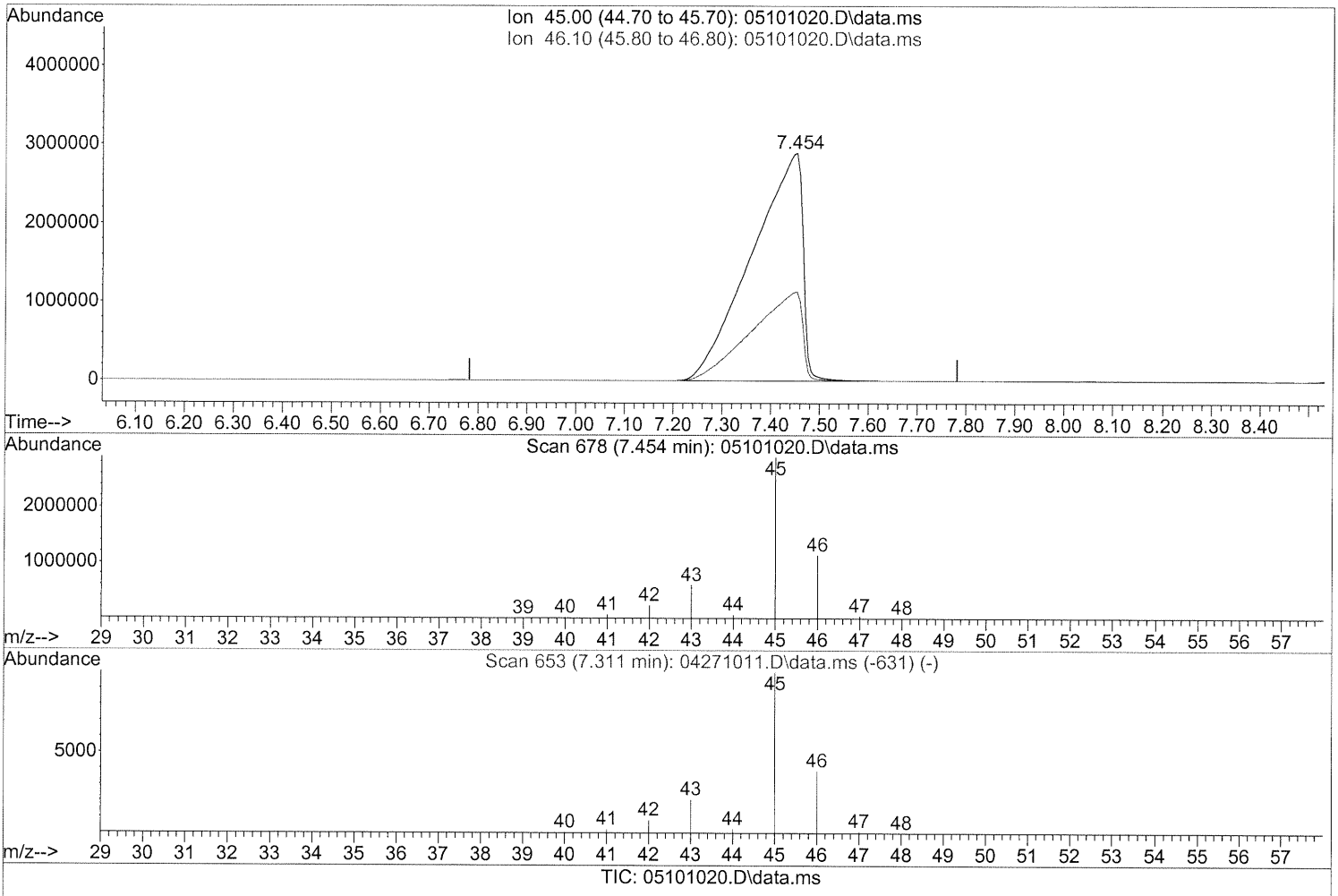
Ion	Exp%	Act%
45.00	100	0.00
46.10	38.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

MP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101020.D\data.ms

(10) Ethanol (T)

7.454min (+0.172) 1608.15ng m

response 20992191

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

HP→IC

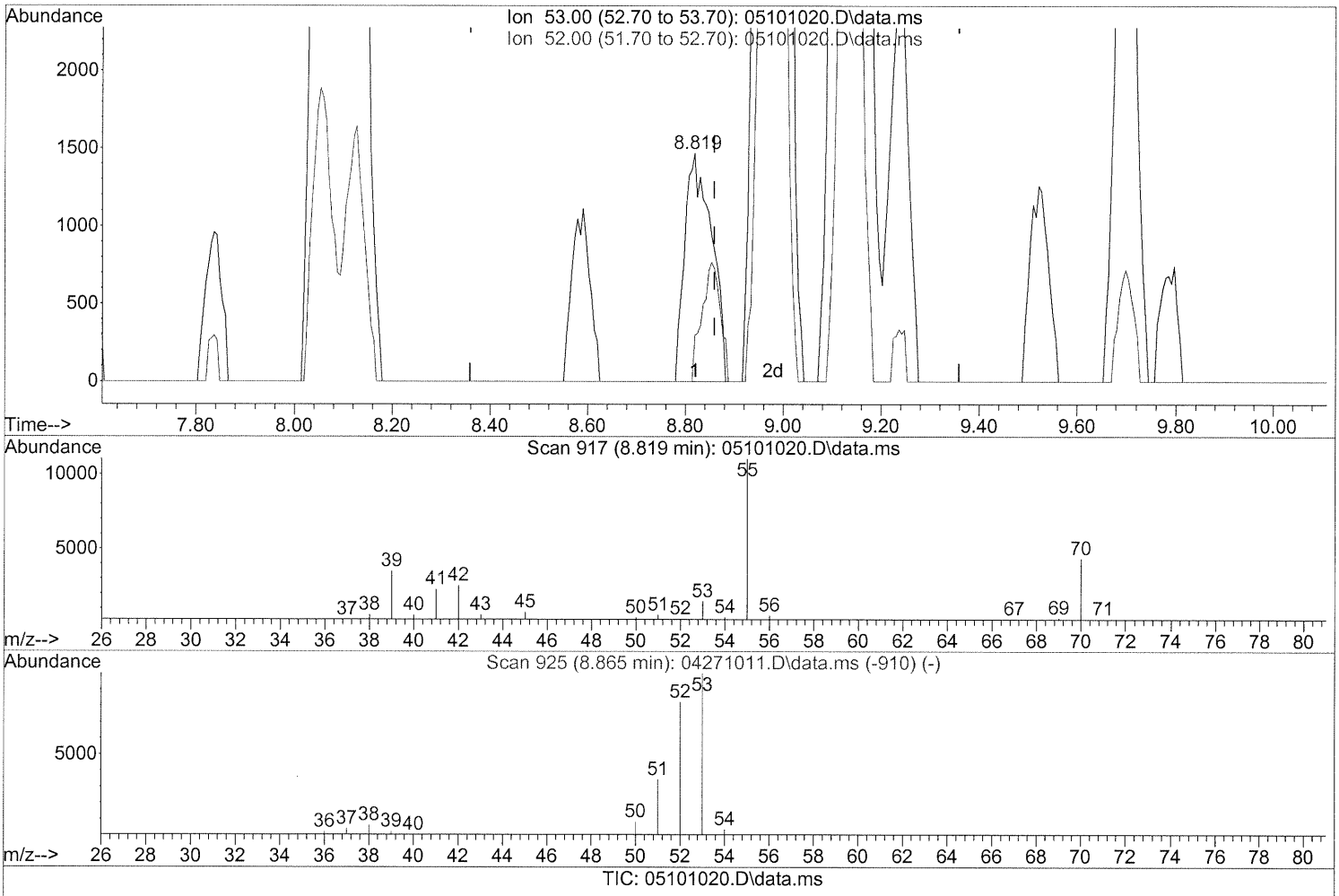
5/17/10

5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101020.D\data.ms

(16) Acrylonitrile (T)

8.819min (-0.040) 0.22ng

response 5601

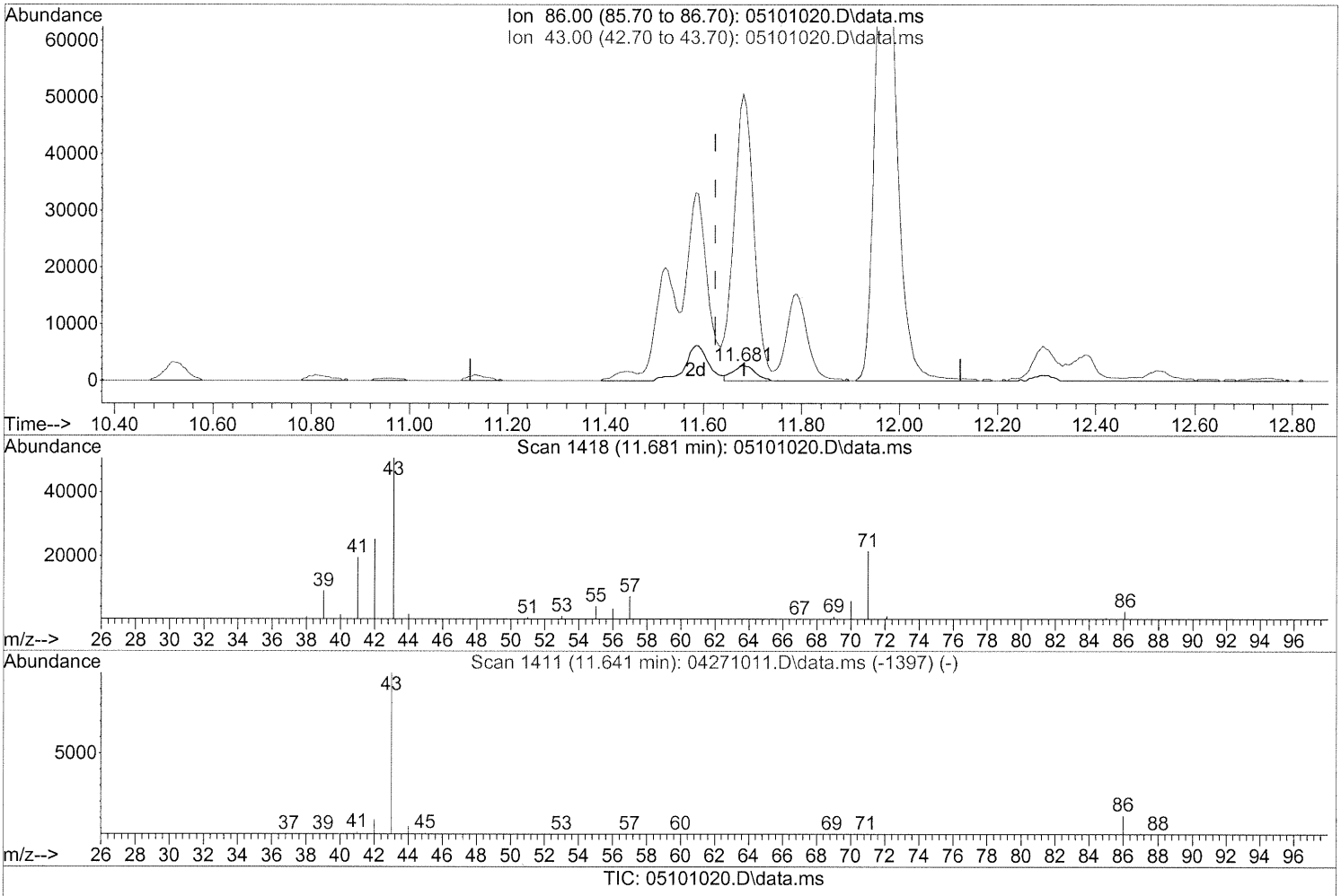
Ion	Exp%	Act%
53.00	100	100
52.00	84.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101020.D\data.ms

(26) Vinyl Acetate (T)

11.681min (+0.057) 1.43ng

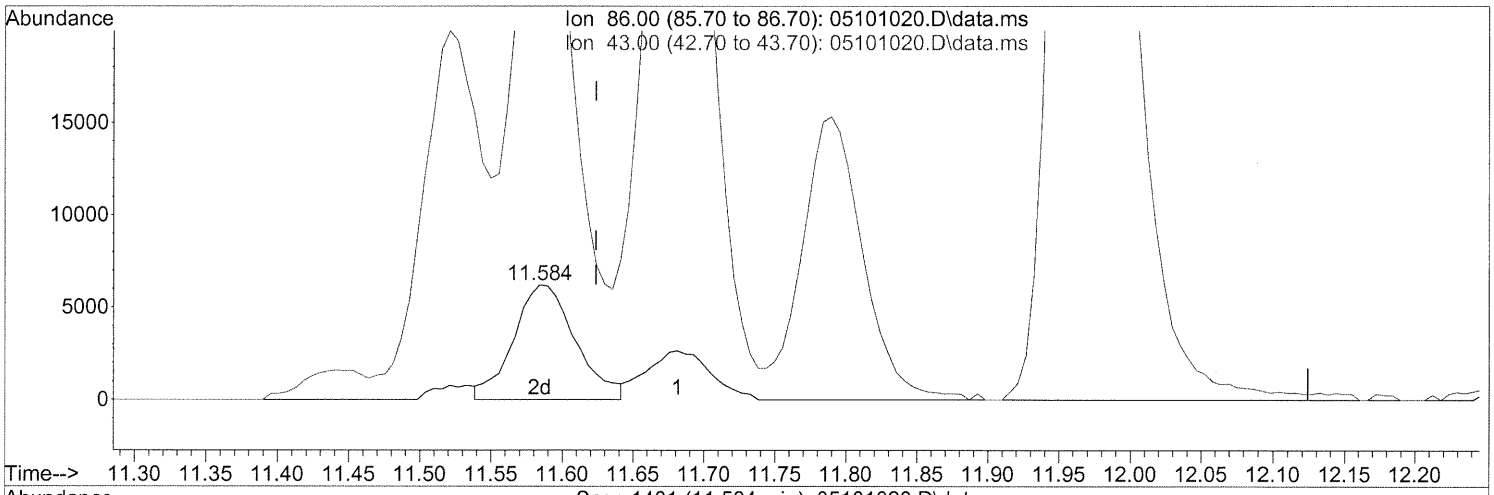
response 8272

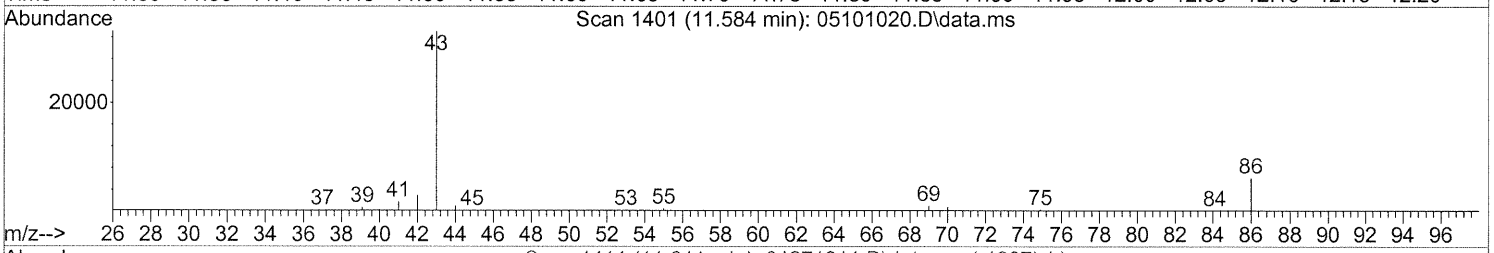
MP

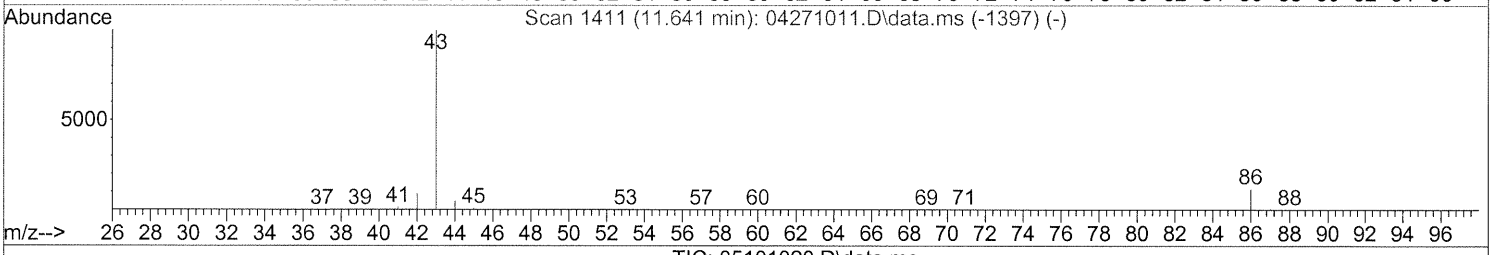
Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	1733.11#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101020.D\data.ms

(26) Vinyl Acetate (T)

11.584min (-0.040) 3.22ng m

response 18690

Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	767.06#
0.00	0.00	0.00
0.00	0.00	0.00

MP → IC

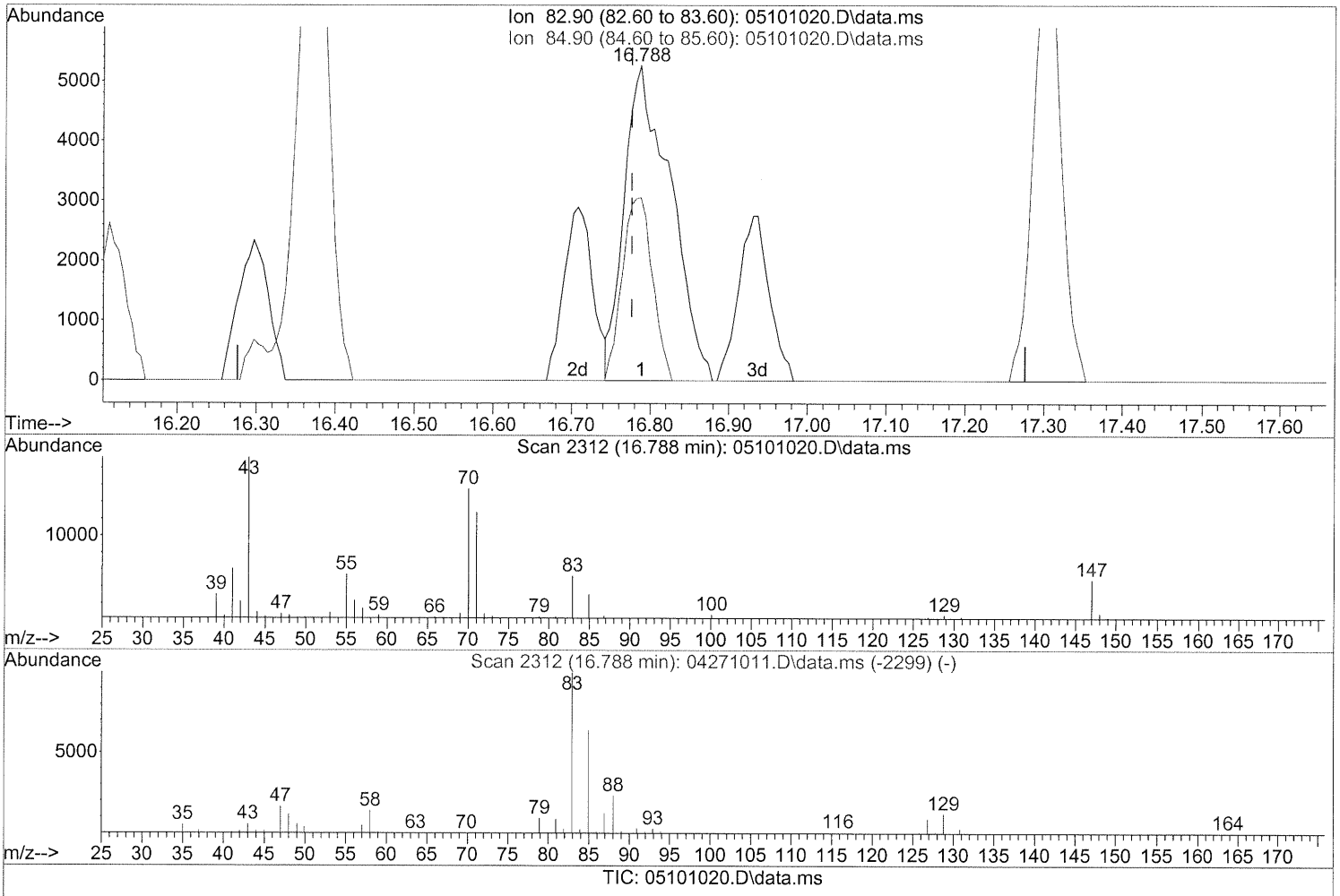
5/17/10

5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101020.D\data.ms

(46) Bromodichloromethane (T)

16.788min (+0.012) 0.70ng

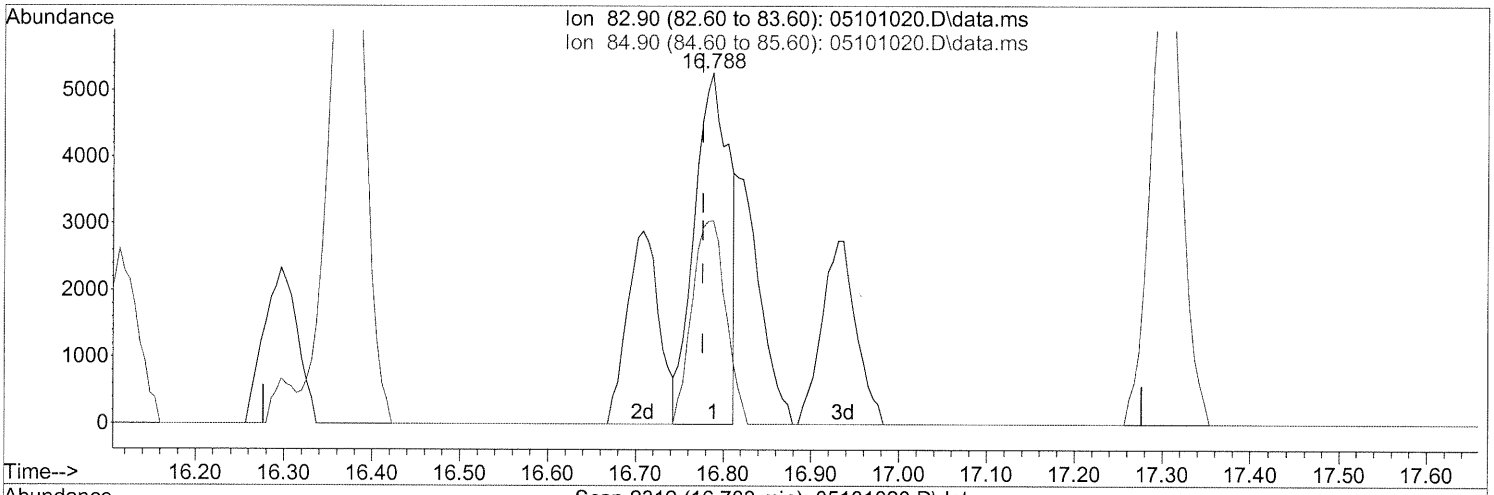
response 21504

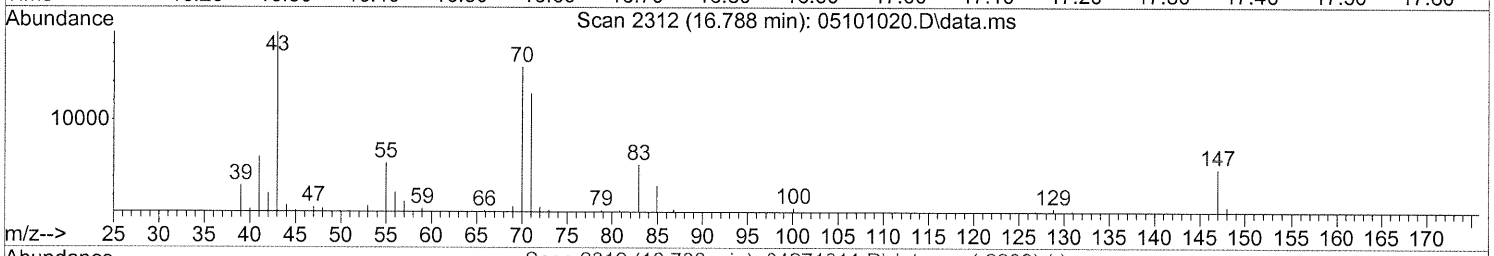
SH

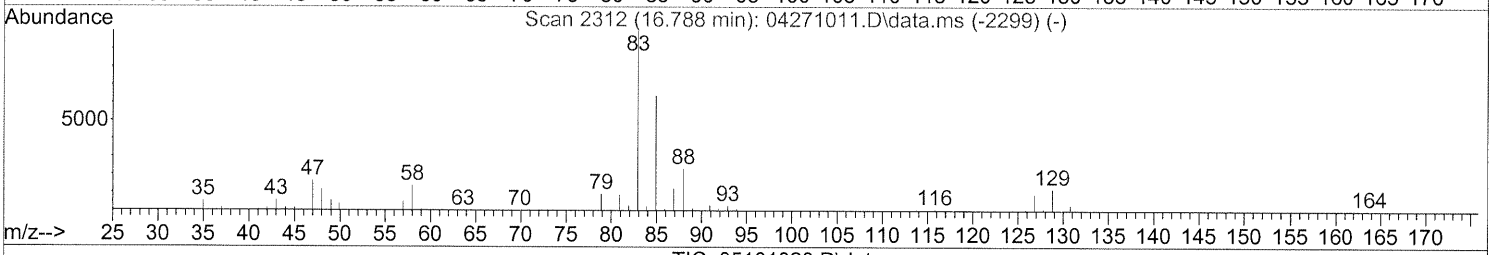
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	37.95#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101020.D\data.ms

(46) Bromodichloromethane (T)

16.788min (+0.012) 0.47ng m

response 14438

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	56.52
0.00	0.00	0.00
0.00	0.00	0.00

SH — 7 IC

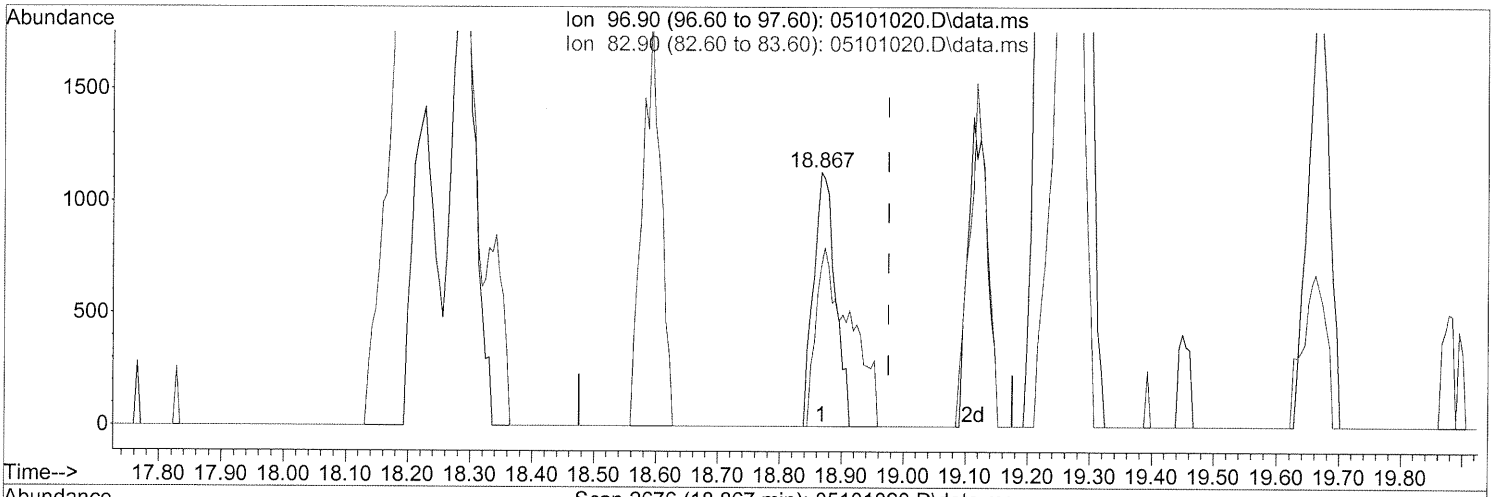
SH 5/17/10

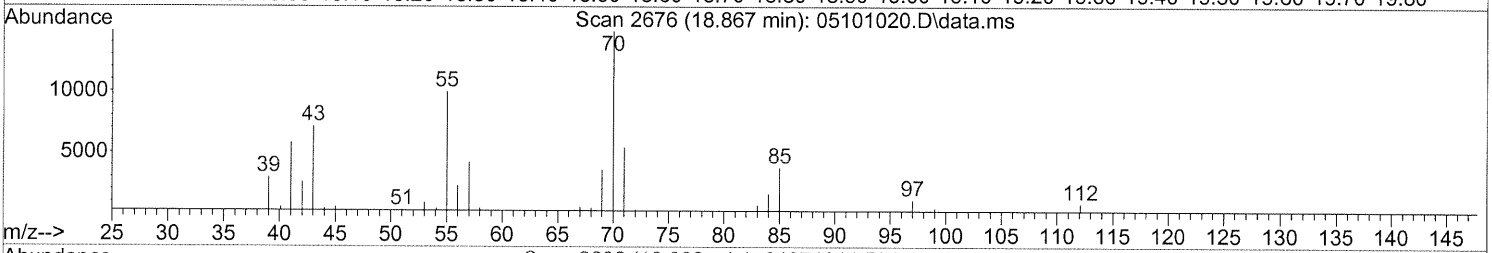
5/19/10

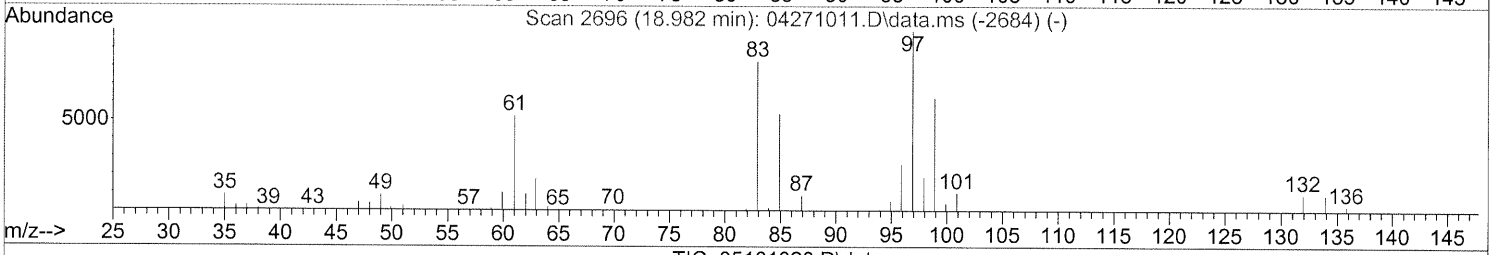
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101020.D\data.ms

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

18.867min (-0.109) 0.12ng

response 2731

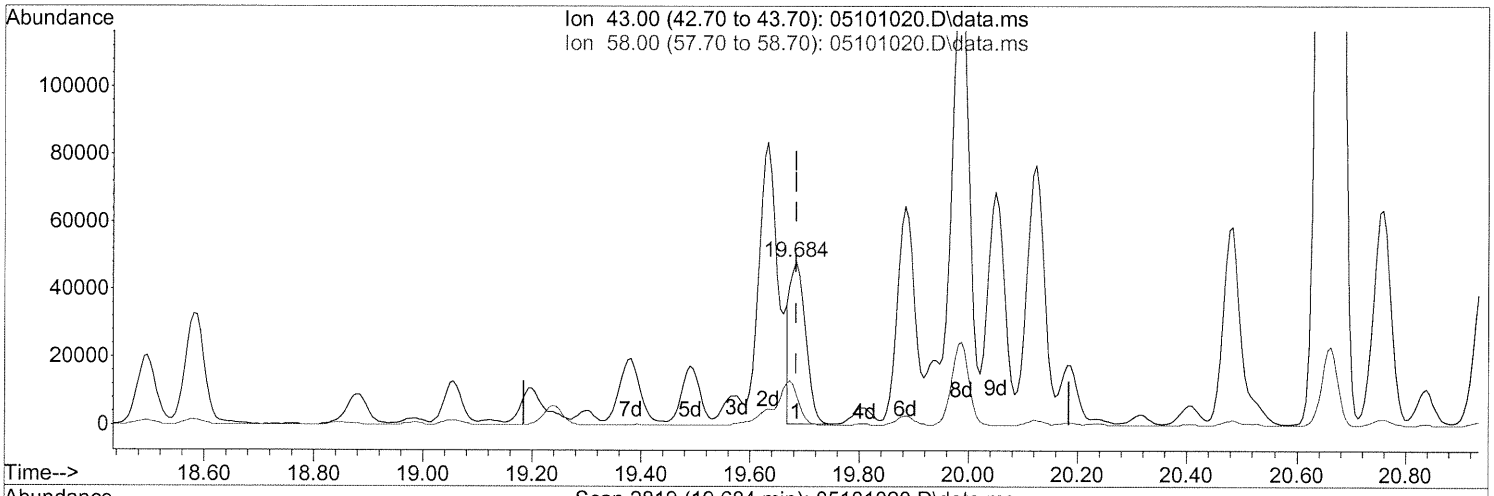
FP

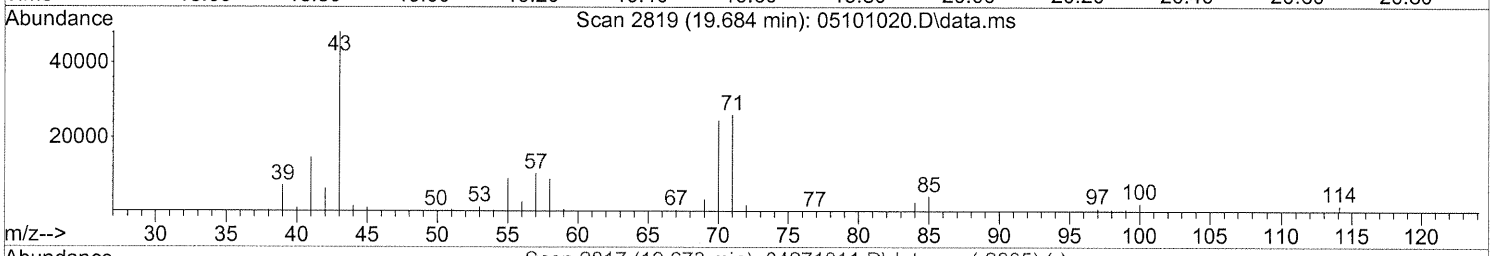
Ion	Exp%	Act%
96.90	100	100
82.90	89.40	111.20#
0.00	0.00	0.00
0.00	0.00	0.00

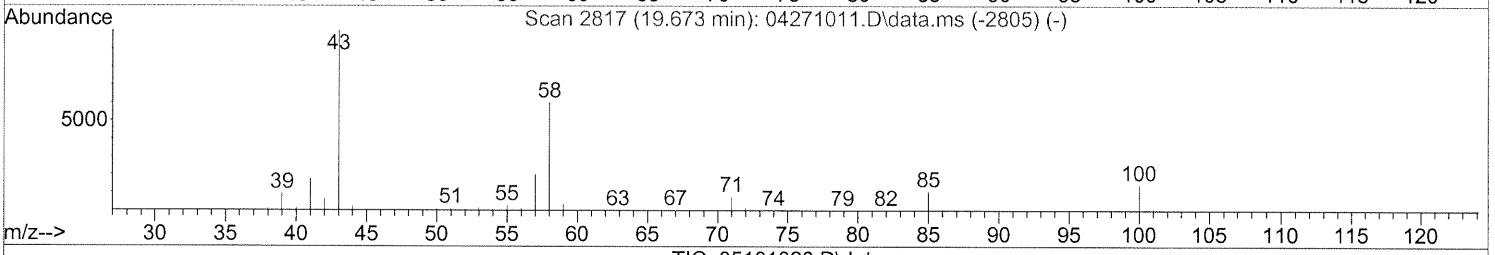
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Response via : Initial Calibration







TIC: 05101020.D\data.ms

(59) 2-Hexanone (T)

19.684min (+0.000) 1.68ng

response 95556

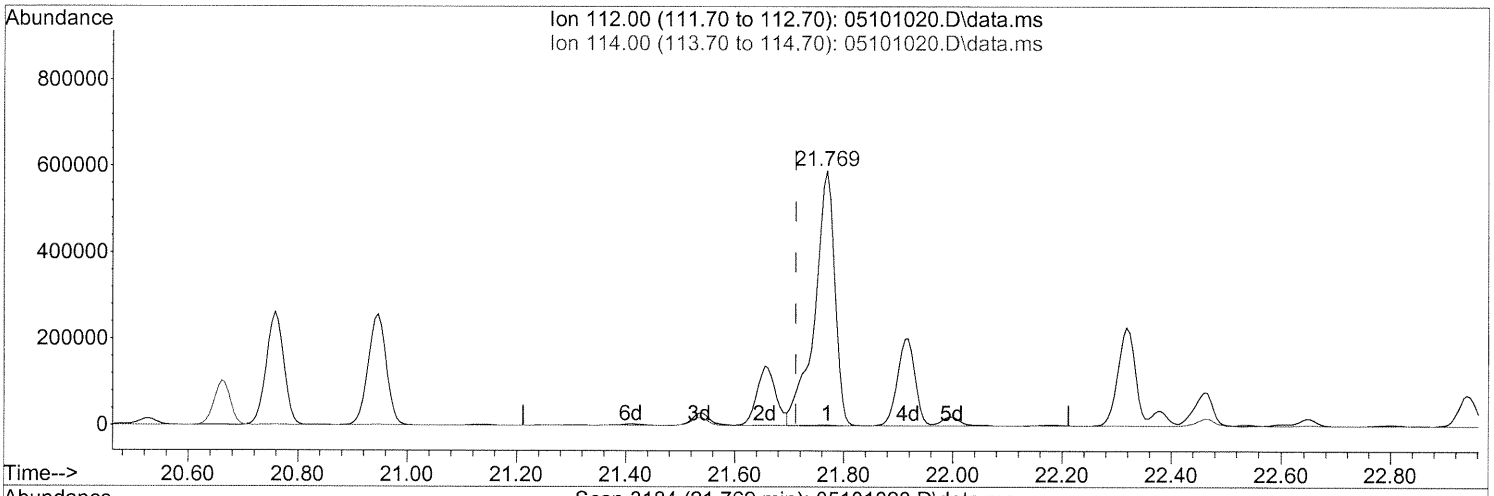
Ion	Exp%	Act%
43.00	100	100
58.00	53.30	41.46
0.00	0.00	0.00
0.00	0.00	0.00

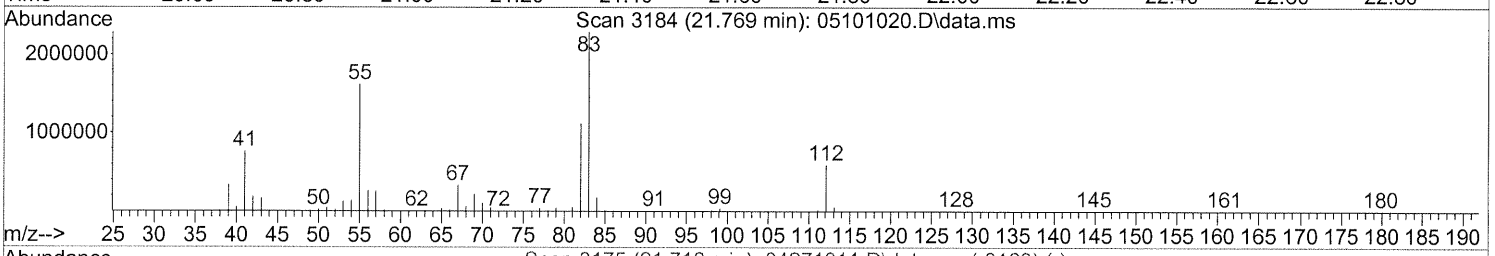
FP

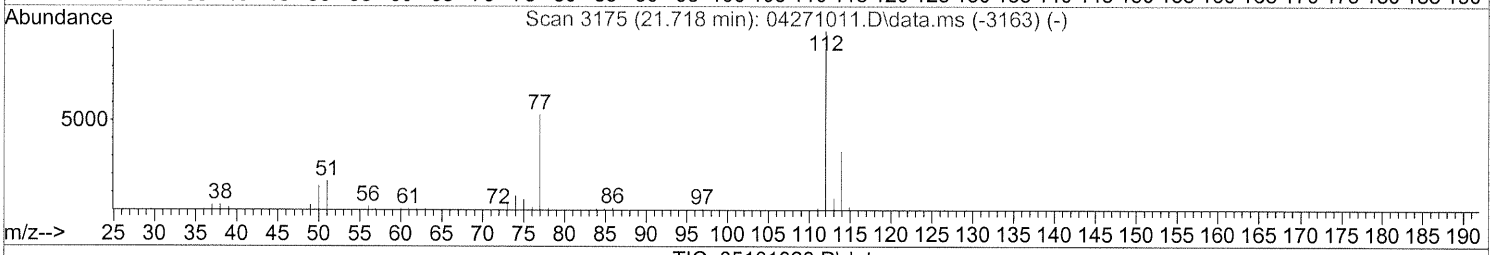
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101020.D\data.ms

(65) Chlorobenzene (T)

21.769min (+0.057) 17.09ng

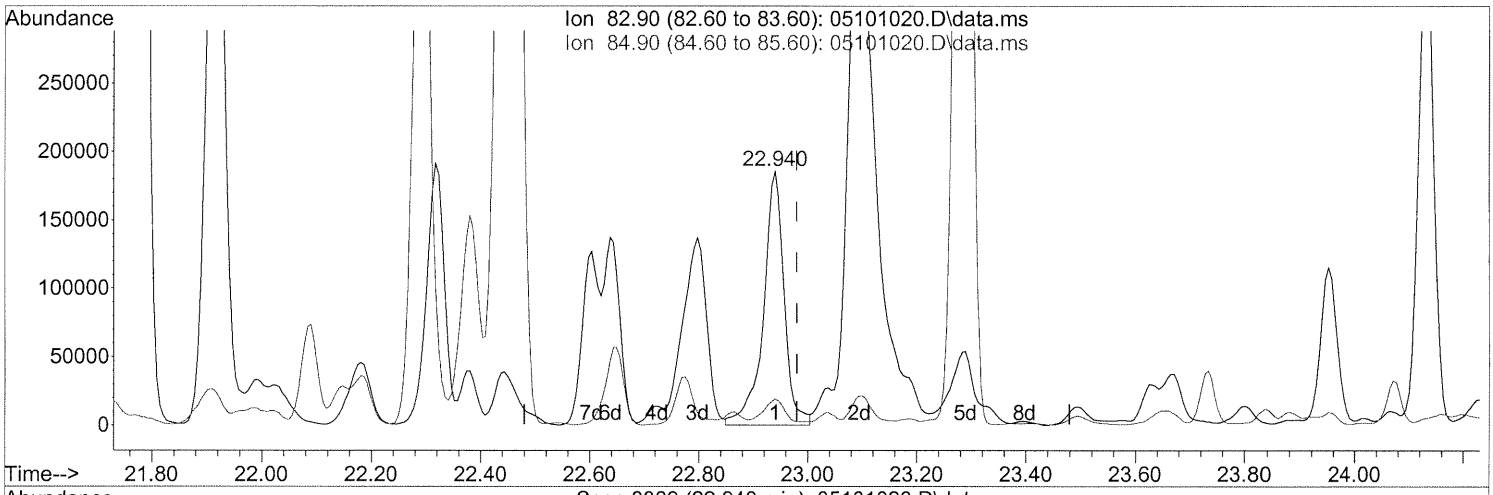
response 1521440

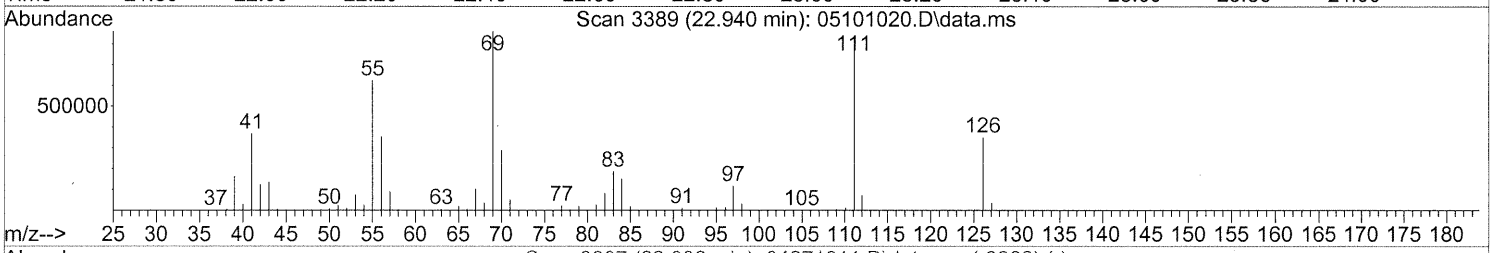
Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.43#
0.00	0.00	0.00
0.00	0.00	0.00

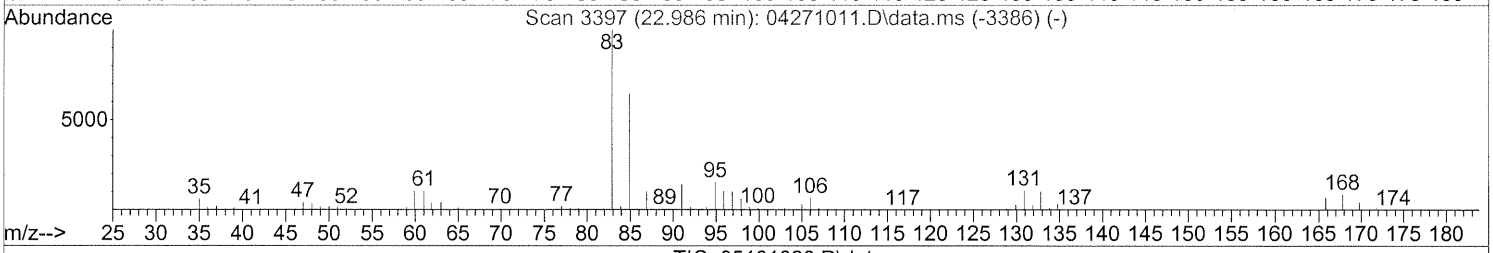
TP

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101020.D\data.ms

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

22.940min (-0.040) 9.87ng

response 491619

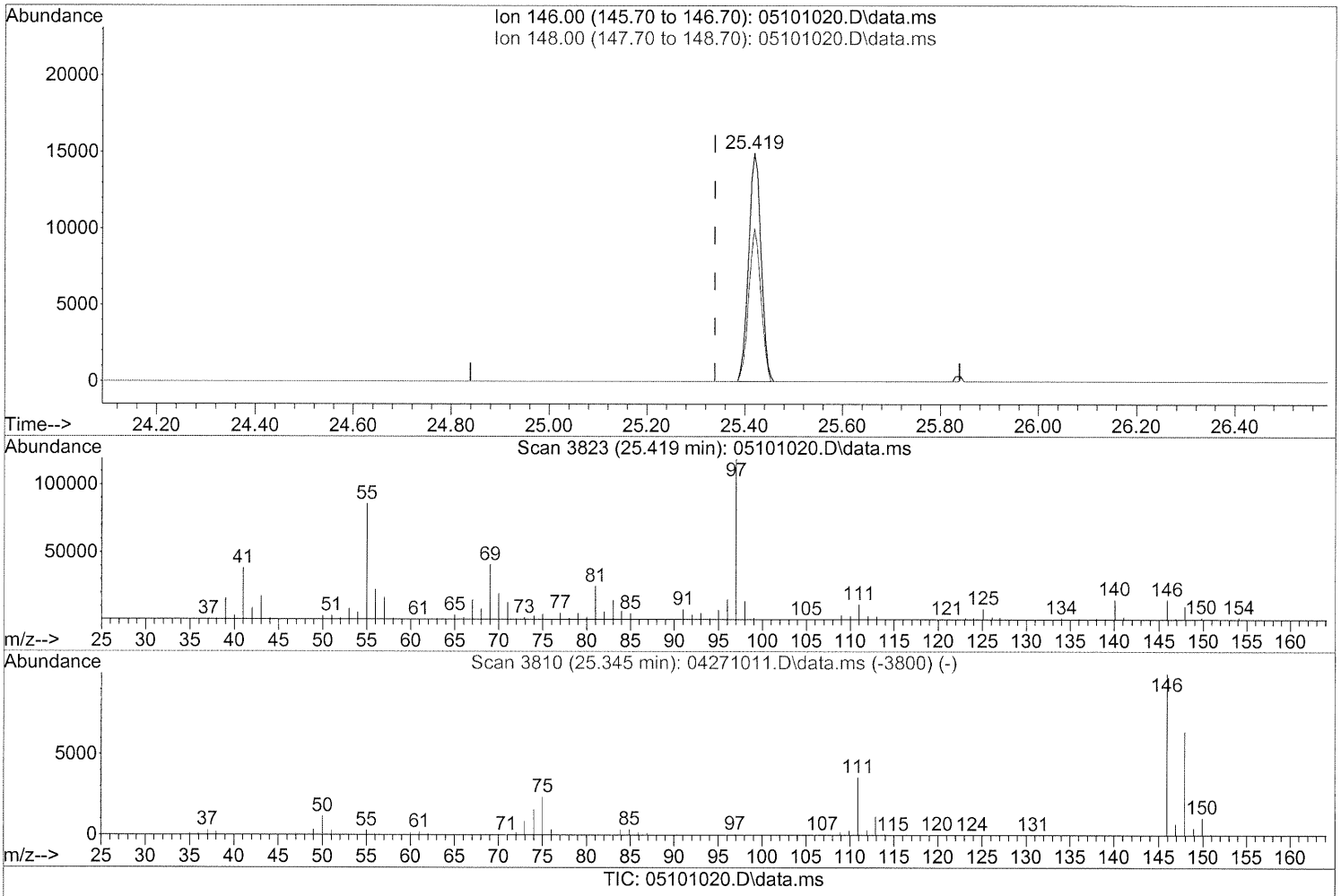
Ion	Exp%	Act%
82.90	100	100
84.90	63.60	11.30#
0.00	0.00	0.00
0.00	0.00	0.00

7P

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:54:31 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101020.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.419min (+0.080) 0.35ng

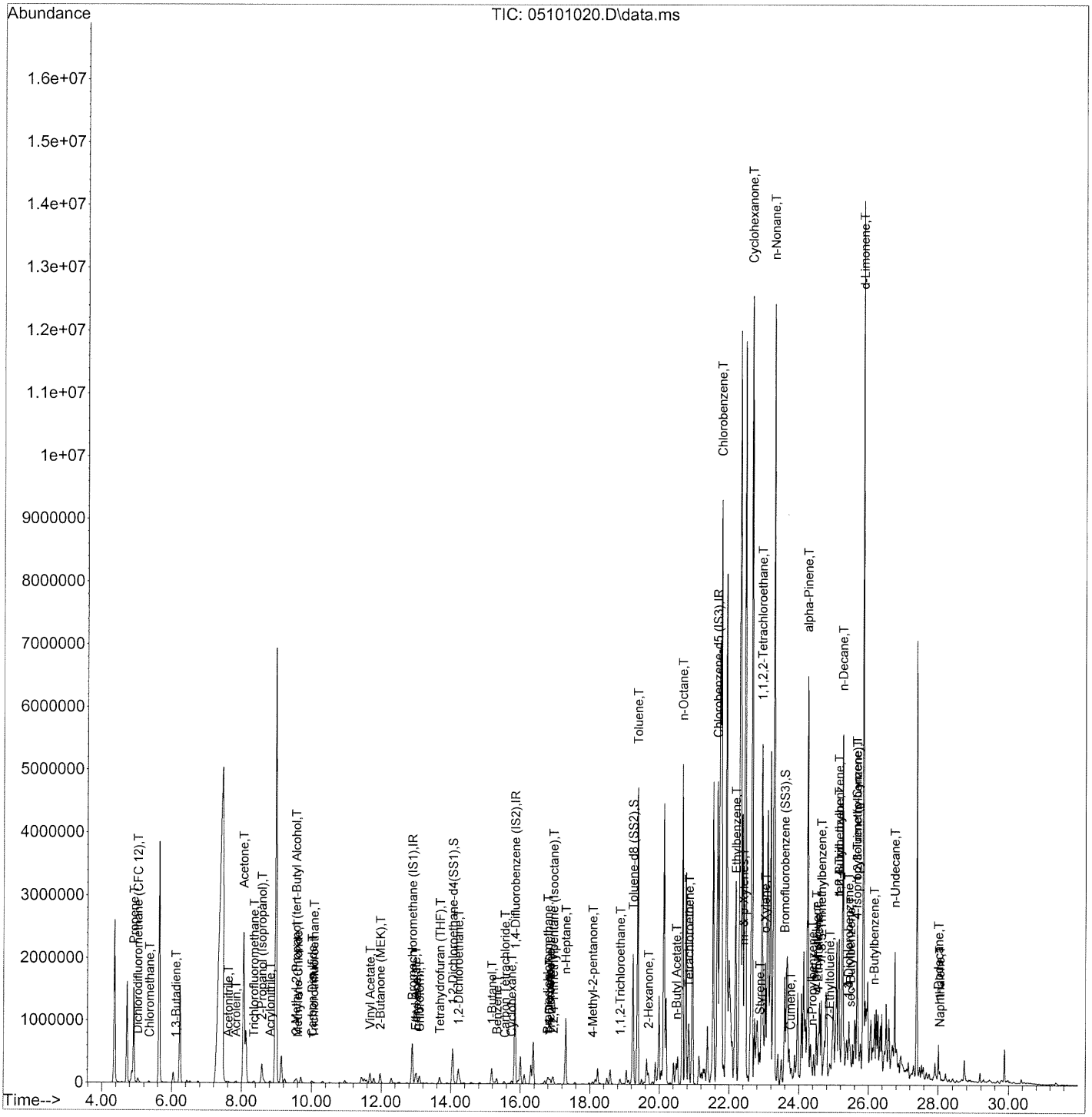
response 26577

TP

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	65.02
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:53:53 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:53:53 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	378287	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.85	114	1793417	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	941633	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	564795	24.738	ng		0.00
Spiked Amount 25.000			Recovery = 98.96%				
57) Toluene-d8 (SS2)	19.24	98	1887069	19.870	ng		0.00
Spiked Amount 25.000			Recovery = 79.48%				
73) Bromofluorobenzene (SS3)	23.59	174	682406	20.513	ng		0.00
Spiked Amount 25.000			Recovery = 82.04%				
Target Compounds							Qvalue
2) Propene	4.91	42	161588	7.540	ng	#	1
3) Dichlorodifluoromethan...	5.03	85	69882	1.387	ng		100
4) Chloromethane	5.36	50	12655	0.414	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	1442	N.D.			
6) Vinyl Chloride	5.83	62	3129	N.D.			
7) 1,3-Butadiene	6.12	54	4112	0.165	ng		99
8) Bromomethane	6.61	94	699	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	0.00	45	0	N.D.			
11) Acetonitrile	7.61	41	23721	0.750	ng		96
12) Acrolein	7.84	56	35112	2.727	ng		100
13) Acetone	8.05	58	1528435	91.630	ng		98
14) Trichlorofluoromethane	8.35	101	34142	0.744	ng		100
15) 2-Propanol (Isopropanol)	8.58	45	569855	11.725	ng		100
16) Acrylonitrile	8.82	53	5601	0.220	ng	#	7
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.56	59	62033	1.082	ng	#	1
19) Methylene Chloride	9.60	84	5130	0.204	ng	#	79
20) 3-Chloro-1-propene (Al...	9.78	41	783	N.D.			
21) Trichlorotrifluoroethane	10.06	151	7654	0.333	ng	#	74
22) Carbon Disulfide	10.01	76	77658	0.958	ng		100
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	11.50	73	1188	N.D.			
26) Vinyl Acetate	11.68	86	8272	1.425	ng	#	21
27) 2-Butanone (MEK)	11.97	72	78296	5.110	ng	#	67
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.01	87	1013	N.D.			
30) Ethyl Acetate	12.99	61	27218	3.345	ng		91
31) n-Hexane	13.02	57	70344	1.814	ng	#	95

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 03:53:53 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.10	83	125214	3.038	ng		99
34) Tetrahydrofuran (THF)	13.69	72	20418	1.372	ng	#	61
35) Ethyl tert-Butyl Ether	13.83	87	87	N.D.			
36) 1,2-Dichloroethane	14.22	62	269131	8.700	ng		100
38) 1,1,1-Trichloroethane	14.63	97	581	N.D.			
39) Isopropyl Acetate	15.17	61	266	N.D.			
40) 1-Butanol	15.18	56	213966	9.893	ng	#	75
41) Benzene	15.33	78	112628	1.103	ng		98
42) Carbon Tetrachloride	15.55	117	10172	0.324	ng		100
43) Cyclohexane	15.75	84	28399	0.747	ng	#	80
44) tert-Amyl Methyl Ether	16.21	73	663	N.D.			
45) 1,2-Dichloropropane	16.37	63	1060	N.D.			
46) Bromodichloromethane	16.79	83	21504	0.702	ng	#	68
47) Trichloroethene	16.86	130	27420	0.962	ng		99
48) 1,4-Dioxane	16.83	88	4208	0.211	ng		92
49) 2,2,4-Trimethylpentane...	16.95	57	97085	1.035	ng		71
50) Methyl Methacrylate	17.03	100	270	N.D.			
51) n-Heptane	17.30	71	365837	15.062	ng		87
52) cis-1,3-Dichloropropene	17.86	75	981	N.D.			
53) 4-Methyl-2-pentanone	18.08	58	12064	0.624	ng		86
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	18.87	97	2731	0.116	ng	#	77
58) Toluene	19.38	91	4674067	34.896	ng		98
59) 2-Hexanone	19.68	43	95556	1.685	ng		83
60) Dibromochloromethane	19.91	129	1719	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) n-Butyl Acetate	20.48	43	135693	2.097	ng	#	74
63) n-Octane	20.66	57	1084569	45.125	ng	#	80
64) Tetrachloroethene	20.85	166	173843	4.154	ng		99
65) Chlorobenzene	21.77	112	1521440	17.094	ng	#	43
66) Ethylbenzene	22.19	91	201612	1.373	ng		99
67) m- & p-Xylenes	22.40	91	469898	4.051	ng		95
68) Bromoform	22.52	173	1209	N.D.			
69) Styrene	22.88	104	68997	0.756	ng		96
70) o-Xylene	23.03	91	196082	1.658	ng		97
71) n-Nonane	23.28	43	4764261	92.351	ng		85
72) 1,1,2,2-Tetrachloroethane	22.94	83	491619	9.871	ng	#	33
74) Cumene	23.76	105	26862	0.166	ng		96
75) alpha-Pinene	24.25	93	2974441	39.668	ng		94
76) n-Propylbenzene	24.38	91	75337	0.402	ng		95
77) 3-Ethyltoluene	24.50	105	206190	1.393	ng		96
78) 4-Ethyltoluene	24.55	105	109397	0.734	ng		97
79) 1,3,5-Trimethylbenzene	24.64	105	112083	0.921	ng		94

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101020.D
Acq On : 11 May 2010 1:40
Operator : WA
Sample : P1001603-009 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

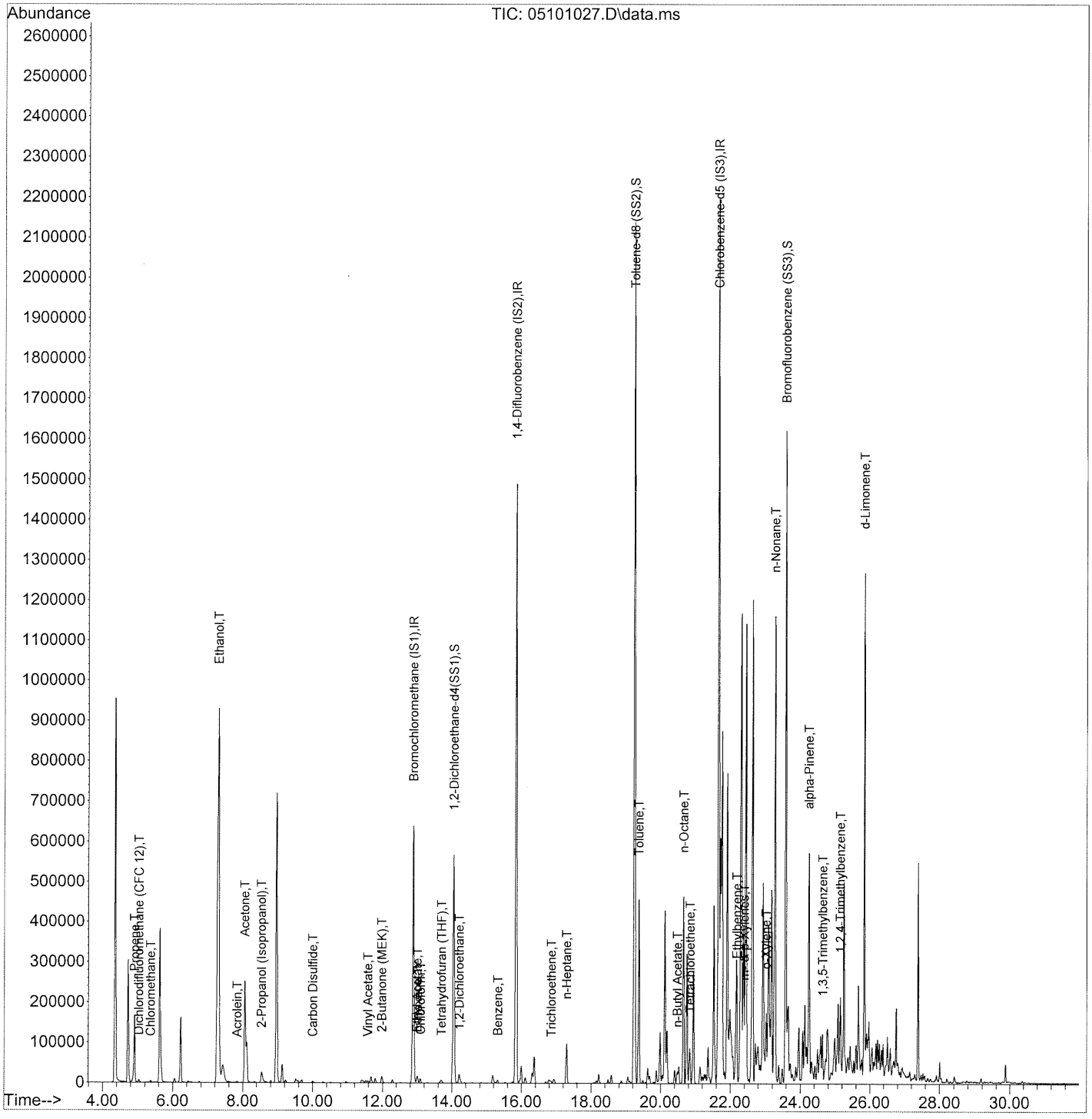
Quant Time: May 11 03:53:53 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	3186	N.D.			
81) 2-Ethyltoluene	24.88	105	121674	0.792	ng		95
82) 1,2,4-Trimethylbenzene	25.15	105	375549	2.984	ng		97
83) n-Decane	25.25	57	1868027	32.574	ng		87
84) Benzyl Chloride	25.27	91	7007	N.D.			
85) 1,3-Dichlorobenzene	25.42	146	26577	0.346	ng		98
86) 1,4-Dichlorobenzene	25.42	146	26577	0.334	ng		98
87) sec-Butylbenzene	25.48	105	27668	0.162	ng	#	79
88) 4-Isopropyltoluene (p-...	25.66	119	198754	1.223	ng		96
89) 1,2,3-Trimethylbenzene	25.67	105	156925	1.237	ng		91
90) 1,2-Dichlorobenzene	25.84	146	334	N.D.			
91) d-Limonene	25.84	68	3458580	79.151	ng		76
92) 1,2-Dibromo-3-Chloropr...	26.38	157	89	N.D.			
93) n-Undecane	26.76	57	648032	11.412	ng		82
94) 1,2,4-Trichlorobenzene	27.90	180	535	N.D.			
95) Naphthalene	28.05	128	83917	0.525	ng		94
96) n-Dodecane	28.01	57	189600	3.220	ng		89
97) Hexachlorobutadiene	0.00	225	0	N.D.			
98) Cyclohexanone	22.64	55	1460917	38.022	ng	#	23
99) tert-Butylbenzene	25.15	119	48712	0.374	ng	#	58
100) n-Butylbenzene	26.16	91	60362	0.466	ng	#	62

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

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 15 17:44:20 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 15 17:44:20 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	378615	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1818578	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	774349	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	570068	24.947	ng		0.00
Spiked Amount 25.000			Recovery =	99.80%			✓
57) Toluene-d8 (SS2)	19.24	98	1899423	24.320	ng		0.00
Spiked Amount 25.000			Recovery =	97.28%			✓
73) Bromofluorobenzene (SS3)	23.59	174	653739	23.897	ng		0.00
Spiked Amount 25.000			Recovery =	95.60%			✓
Target Compounds							Qvalue
2) Propene	4.91	42	21464	1.001	ng	#	1
3) Dichlorodifluoromethan...	5.03	85	6985	0.138	ng	#	96
4) Chloromethane	5.36	50	3583	0.117	ng		92
10) Ethanol	7.30	45	1969853m	150.774	ng		
12) Acrolein	7.84	56	3028	0.235	ng		90
13) Acetone	8.05	58	148202	8.877	ng		99
15) 2-Propanol (Isopropanol)	8.53	45	62683	1.289	ng		98
22) Carbon Disulfide	10.00	76	7933	0.098	ng		81
26) Vinyl Acetate	11.58	86	1737	0.299	ng	#	1
27) 2-Butanone (MEK)	11.98	72	8643	0.564	ng	#	65
30) Ethyl Acetate	13.00	61	1692	0.208	ng		97
31) n-Hexane	13.01	57	6548	0.169	ng		99
32) Chloroform	13.10	83	12165	0.295	ng		99
34) Tetrahydrofuran (THF)	13.70	72	2007	0.135	ng	#	57
36) 1,2-Dichloroethane	14.21	62	26248	0.848	ng		99
41) Benzene	15.32	78	11370	0.110	ng		97
47) Trichloroethene	16.86	130	2690	0.093	ng		91
51) n-Heptane	17.30	71	33912	1.377	ng		88
58) Toluene	19.37	91	457897	4.157	ng		99
62) n-Butyl Acetate	20.48	43	12487	0.235	ng	#	69
63) n-Octane	20.66	57	100747	5.097	ng	#	80
64) Tetrachloroethene	20.85	166	16490	0.479	ng		98
66) Ethylbenzene	22.19	91	19025	0.158	ng		99
67) m- & p-Xylenes	22.40	91	42434	0.445	ng		93
70) o-Xylene	23.02	91	18435	0.190	ng		100
71) n-Nonane	23.27	43	426475	10.053	ng		86
75) alpha-Pinene	24.24	93	272049	4.412	ng		93
79) 1,3,5-Trimethylbenzene	24.64	105	10264	0.103	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	33515	0.324	ng		97
91) d-Limonene	25.84	68	302026	8.405	ng		76

5/17/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 15 17:44:20 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

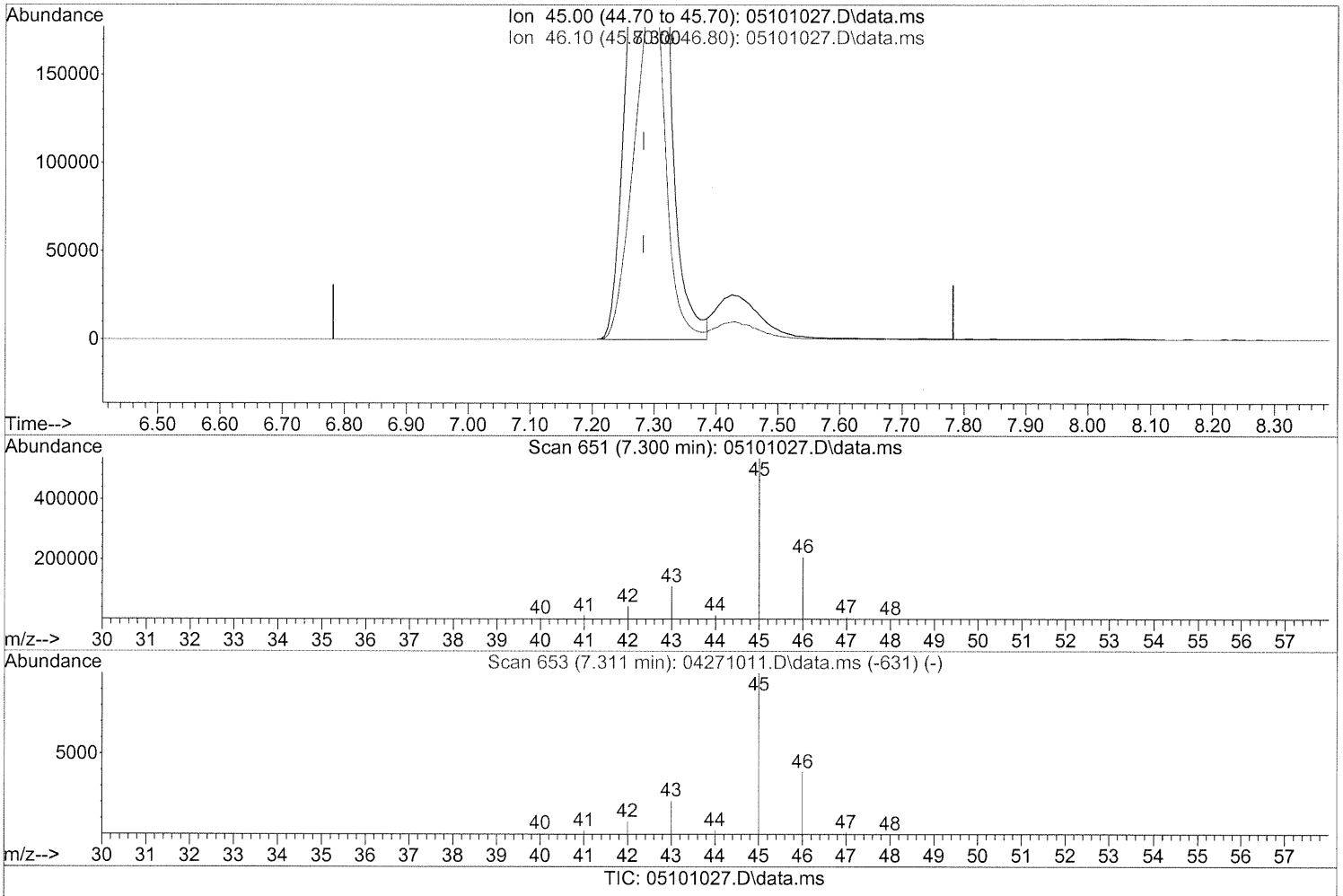
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 08:28:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101027.D\data.ms

(10) Ethanol (T)

7.300min (+0.017) 140.89ng

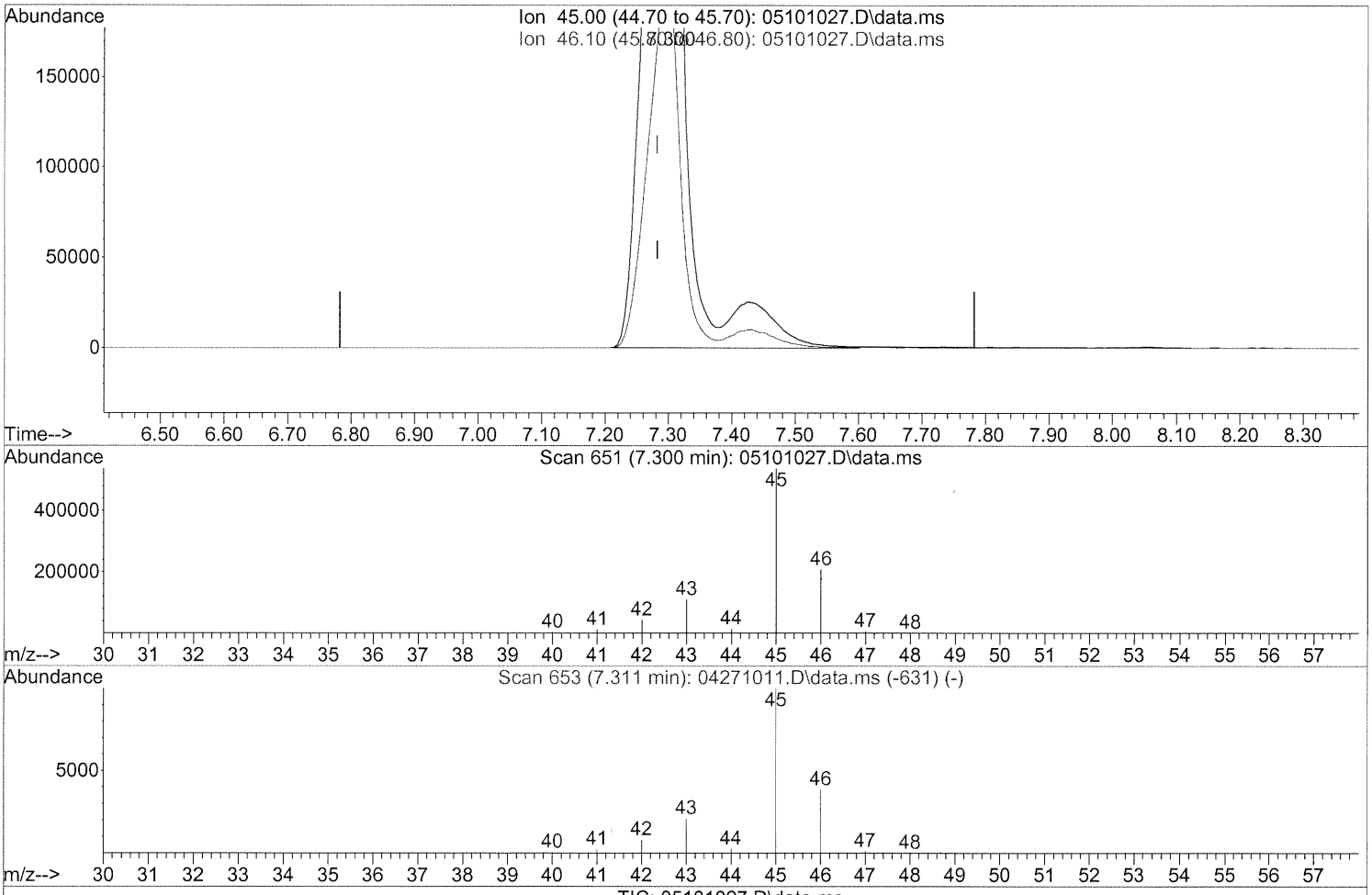
response 1840725

SP

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.46
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 08:28:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101027.D\data.ms

(10) Ethanol (T)

7.300min (+0.017) 150.77ng m

response 1969853

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	35.94
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

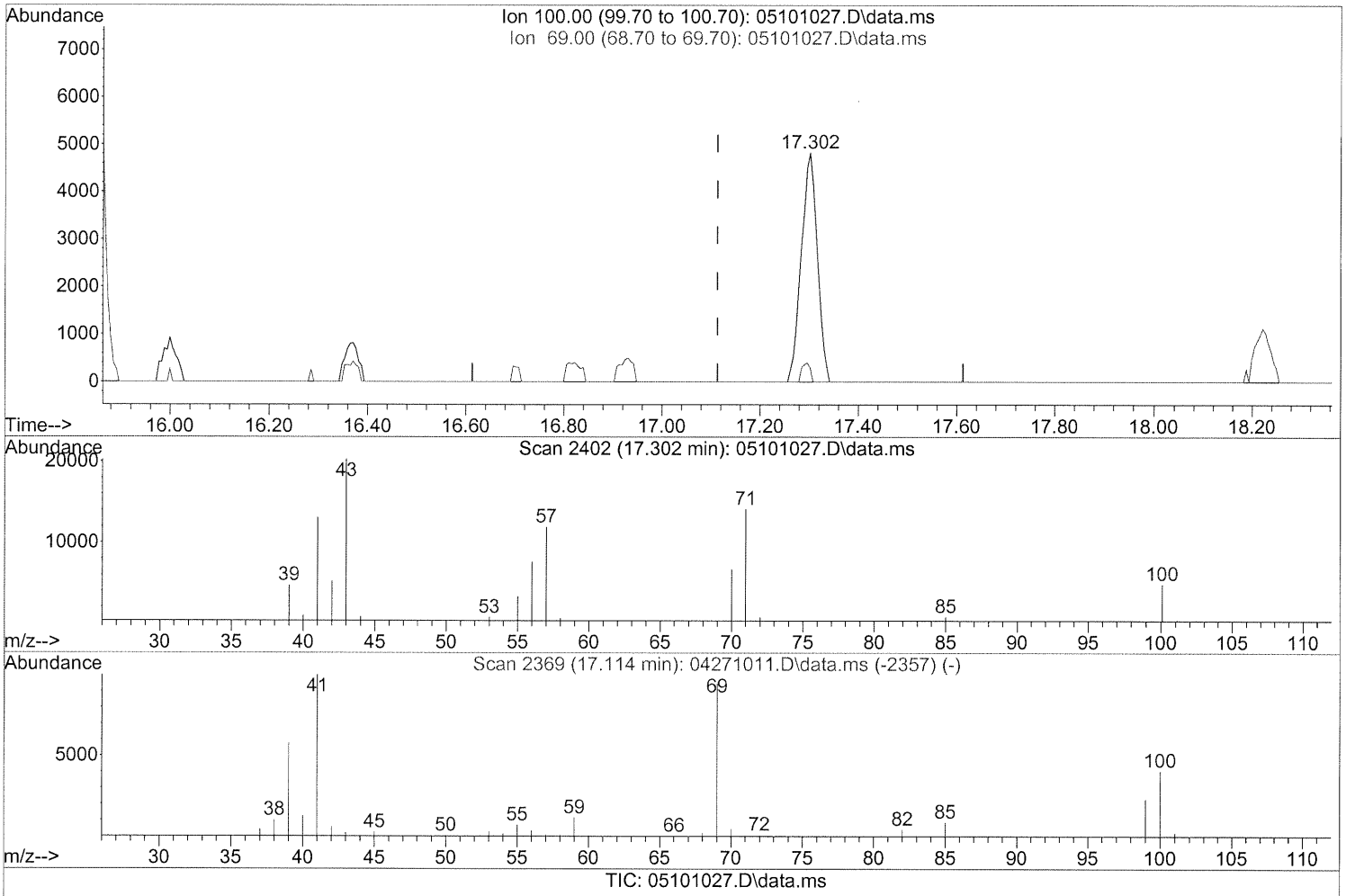
5/17/10

5/18/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 08:28:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101027.D\data.ms

(50) Methyl Methacrylate (T)

17.302min (+0.189) 0.99ng

response 10896

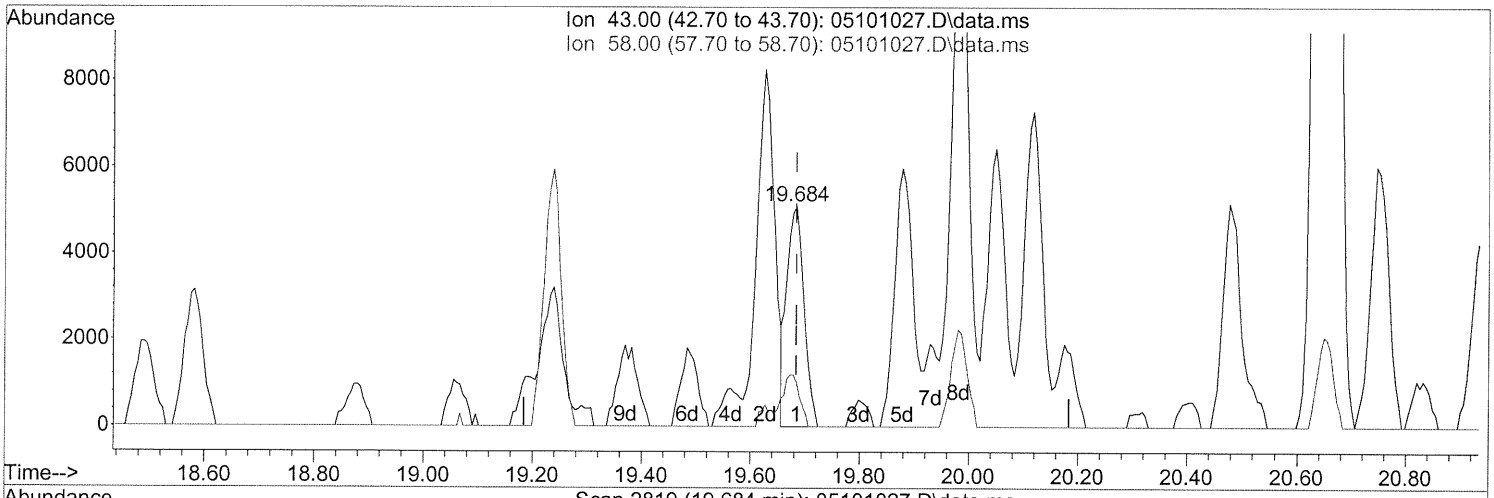
Ion	Exp%	Act%
100.00	100	100
69.00	311.50	4.29#
0.00	0.00	0.00
0.00	0.00	0.00

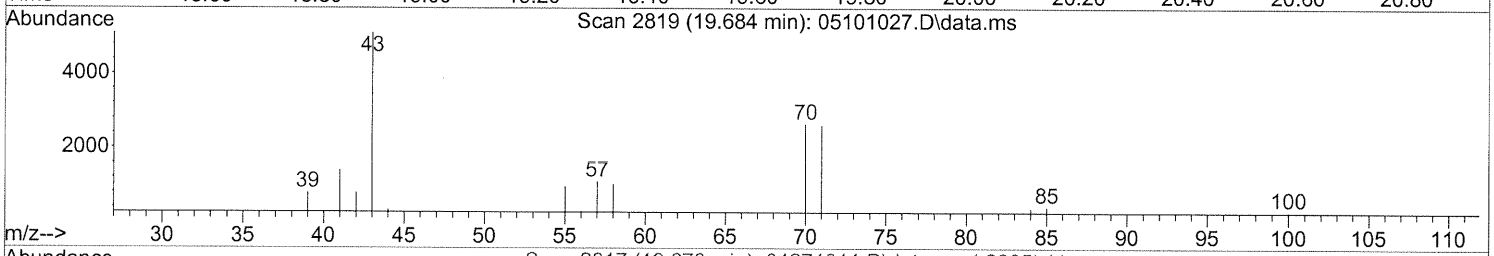
FP

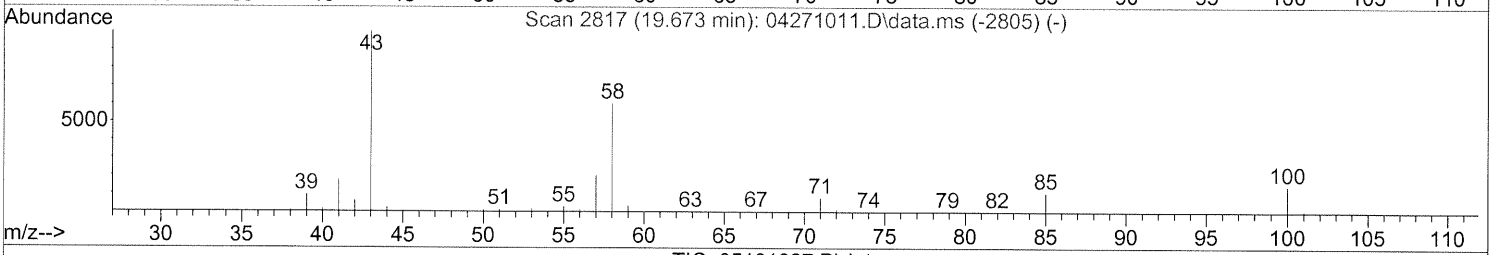
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 08:28:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101027.D\data.ms

(59) 2-Hexanone (T)

19.684min (0.000) 0.24ng

response 11297

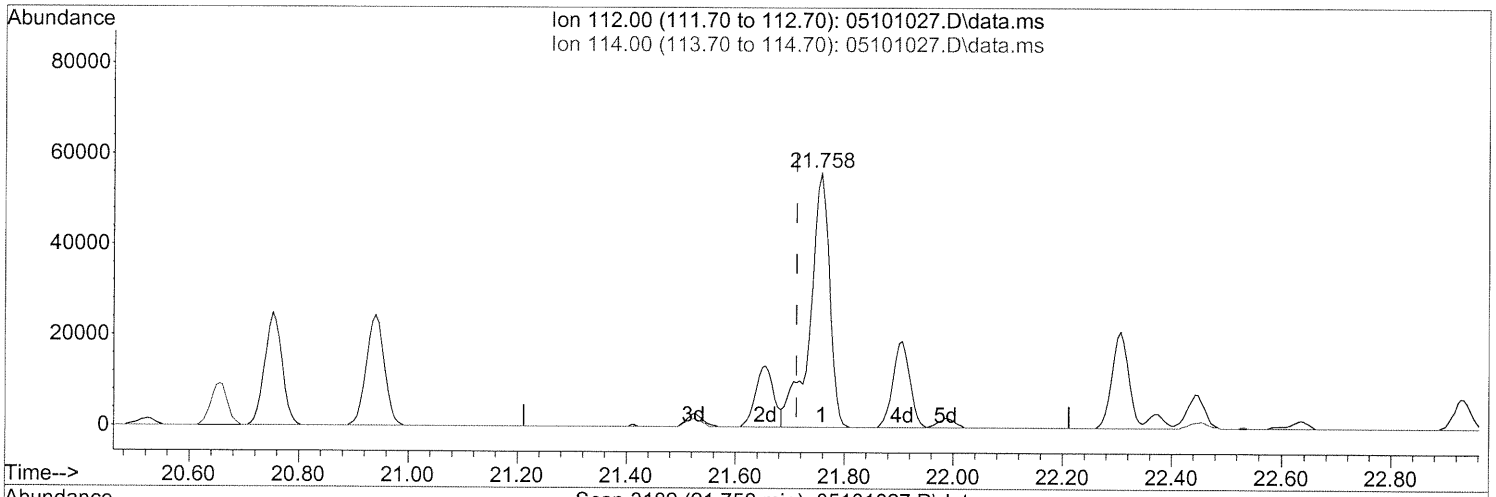
FP

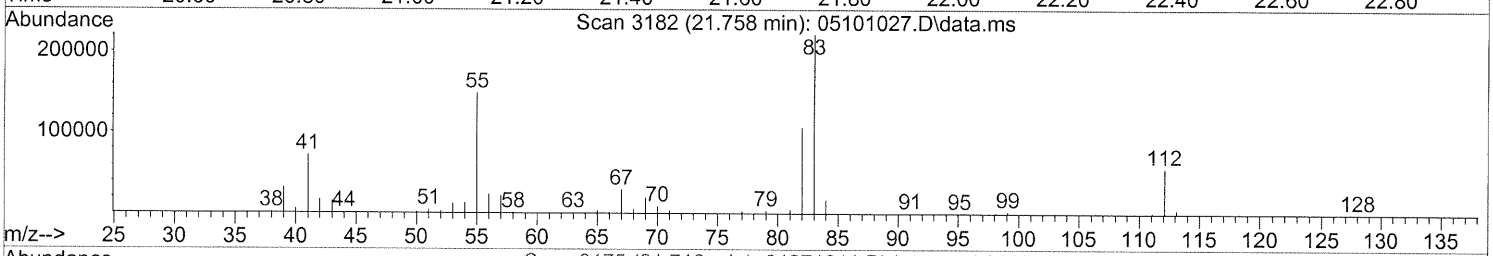
Ion	Exp%	Act%
43.00	100	100
58.00	53.30	23.31#
0.00	0.00	0.00
0.00	0.00	0.00

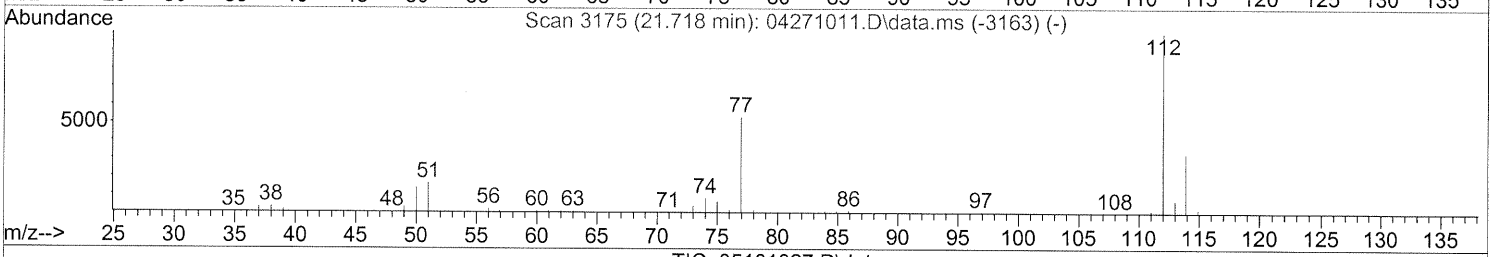
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 08:28:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101027.D\data.ms

(65) Chlorobenzene (T)

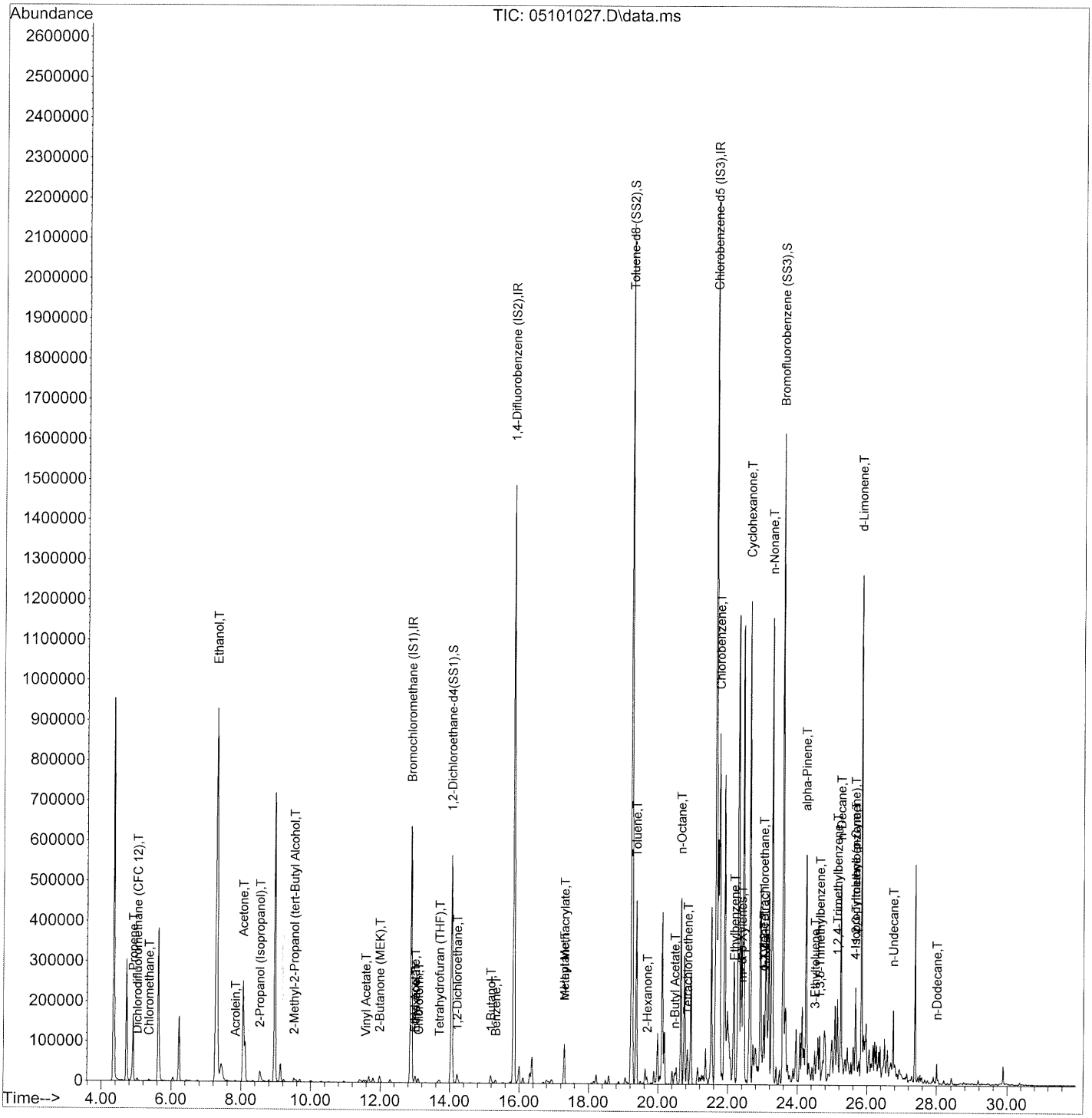
21.758min (+0.046) 1.91ng

response 139935

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

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 08:28:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 08:28:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	378615	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1818578	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	774349	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	570068	24.947	ng		0.00
Spiked Amount 25.000			Recovery =	99.80%			
57) Toluene-d8 (SS2)	19.24	98	1899423	24.320	ng		0.00
Spiked Amount 25.000			Recovery =	97.28%			
73) Bromofluorobenzene (SS3)	23.59	174	653739	23.897	ng		0.00
Spiked Amount 25.000			Recovery =	95.60%			
Target Compounds							Qvalue
2) Propene	4.91	42	21464	1.001	ng	#	1
3) Dichlorodifluoromethan...	5.03	85	6985	0.138	ng	#	96
4) Chloromethane	5.36	50	3583	0.117	ng		92
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	7.30	45	1840725	140.891	ng		100
11) Acetonitrile	7.60	41	2252	N.D.			
12) Acrolein	7.84	56	3028	0.235	ng		90
13) Acetone	8.05	58	148202	8.877	ng		99
14) Trichlorofluoromethane	8.35	101	3303	N.D.			
15) 2-Propanol (Isopropanol)	8.53	45	62683	1.289	ng		98
16) Acrylonitrile	8.81	53	174	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.52	59	17920	0.312	ng	#	86
19) Methylene Chloride	9.58	84	934	N.D.			
20) 3-Chloro-1-propene (Al...	9.68	41	1922	N.D.			
21) Trichlorotrifluoroethane	10.06	151	112	N.D.			
22) Carbon Disulfide	10.00	76	7933	N.D.			
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	11.58	86	1737	0.299	ng	#	1
27) 2-Butanone (MEK)	11.98	72	8643	0.564	ng	#	65
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.09	87	821	N.D.			
30) Ethyl Acetate	13.00	61	1692	0.208	ng		97
31) n-Hexane	13.01	57	6548	0.169	ng		99

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 08:28:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.10	83	12165	0.295 ng		99
34) Tetrahydrofuran (THF)	13.70	72	2007	0.135 ng	#	57
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.21	62	26248	0.848 ng		99
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	18691	0.852 ng	#	78
41) Benzene	15.32	78	11370	0.110 ng		97
42) Carbon Tetrachloride	15.54	117	663	N.D.		
43) Cyclohexane	15.75	84	2329	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	16.78	83	1713	N.D.		
47) Trichloroethene	16.86	130	2690	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	8948	N.D.		
50) Methyl Methacrylate	17.30	100	10896	0.993 ng	#	1
51) n-Heptane	17.30	71	33912	1.377 ng		88
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	807	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	457897	4.157 ng		99
59) 2-Hexanone	19.68	43	11297	0.242 ng	#	58
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	12487	0.235 ng	#	69
63) n-Octane	20.66	57	100747	5.097 ng	#	80
64) Tetrachloroethene	20.85	166	16490	0.479 ng		98
65) Chlorobenzene	21.76	112	139935	1.912 ng	#	43
66) Ethylbenzene	22.19	91	19025	0.158 ng		99
67) m- & p-Xylenes	22.40	91	42434	0.445 ng		93
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.87	104	6041	N.D.		
70) o-Xylene	23.02	91	18435	0.190 ng		100
71) n-Nonane	23.27	43	426475	10.053 ng		86
72) 1,1,2,2-Tetrachloroethane	23.03	83	4982	0.122 ng	#	62
74) Cumene	23.75	105	2444	N.D.		
75) alpha-Pinene	24.24	93	272049	4.412 ng		93
76) n-Propylbenzene	24.38	91	6762	N.D.		
77) 3-Ethyltoluene	24.50	105	19390	0.159 ng		98
78) 4-Ethyltoluene	24.55	105	9836	N.D.		
79) 1,3,5-Trimethylbenzene	24.64	105	10264	0.103 ng		94

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101027.D
Acq On : 11 May 2010 6:34
Operator : WA
Sample : P1001603-009 Dil (100mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 08:28:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	25.14	118	110	N.D.		
81) 2-Ethyltoluene	24.88	105	11298	N.D.		
82) 1,2,4-Trimethylbenzene	25.15	105	33515	0.324 ng		97
83) n-Decane	25.25	57	167161	3.545 ng		86
84) Benzyl Chloride	25.25	91	87	N.D.		
85) 1,3-Dichlorobenzene	25.42	146	2500	N.D.		
86) 1,4-Dichlorobenzene	25.42	146	2500	N.D.		
87) sec-Butylbenzene	25.48	105	2312	N.D.		
88) 4-Isopropyltoluene (p-...	25.66	119	17837	0.133 ng		98
89) 1,2,3-Trimethylbenzene	25.66	105	13956	0.134 ng		88
90) 1,2-Dichlorobenzene	25.42	146	2500	N.D.		
91) d-Limonene	25.84	68	302026	8.405 ng		76
92) 1,2-Dibromo-3-Chloropr...	26.75	157	216	N.D.		
93) n-Undecane	26.76	57	53000	1.135 ng		73
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	28.05	128	7525	N.D.		
96) n-Dodecane	28.01	57	15664	0.324 ng		79
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.63	55	133776	4.234 ng	#	25
99) tert-Butylbenzene	25.58	119	3875	N.D.		
100) n-Butylbenzene	26.16	91	6407	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110353**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00898

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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	0.20	ND	0.097	
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	0.20	ND	0.090	
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	2.0	ND	0.87	
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	1.0	ND	0.41	
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	5.0	ND	1.6	
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	5.0	ND	1.7	

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: Re Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110353**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00898

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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: RG Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.** CAS Project ID: P1001603
Client Sample ID: **110353** CAS Sample ID: P1001603-010
Client Project ID: **17131**

Test Code: EPA TO-15 Date Collected: 5/6/10
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/7/10
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00898

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

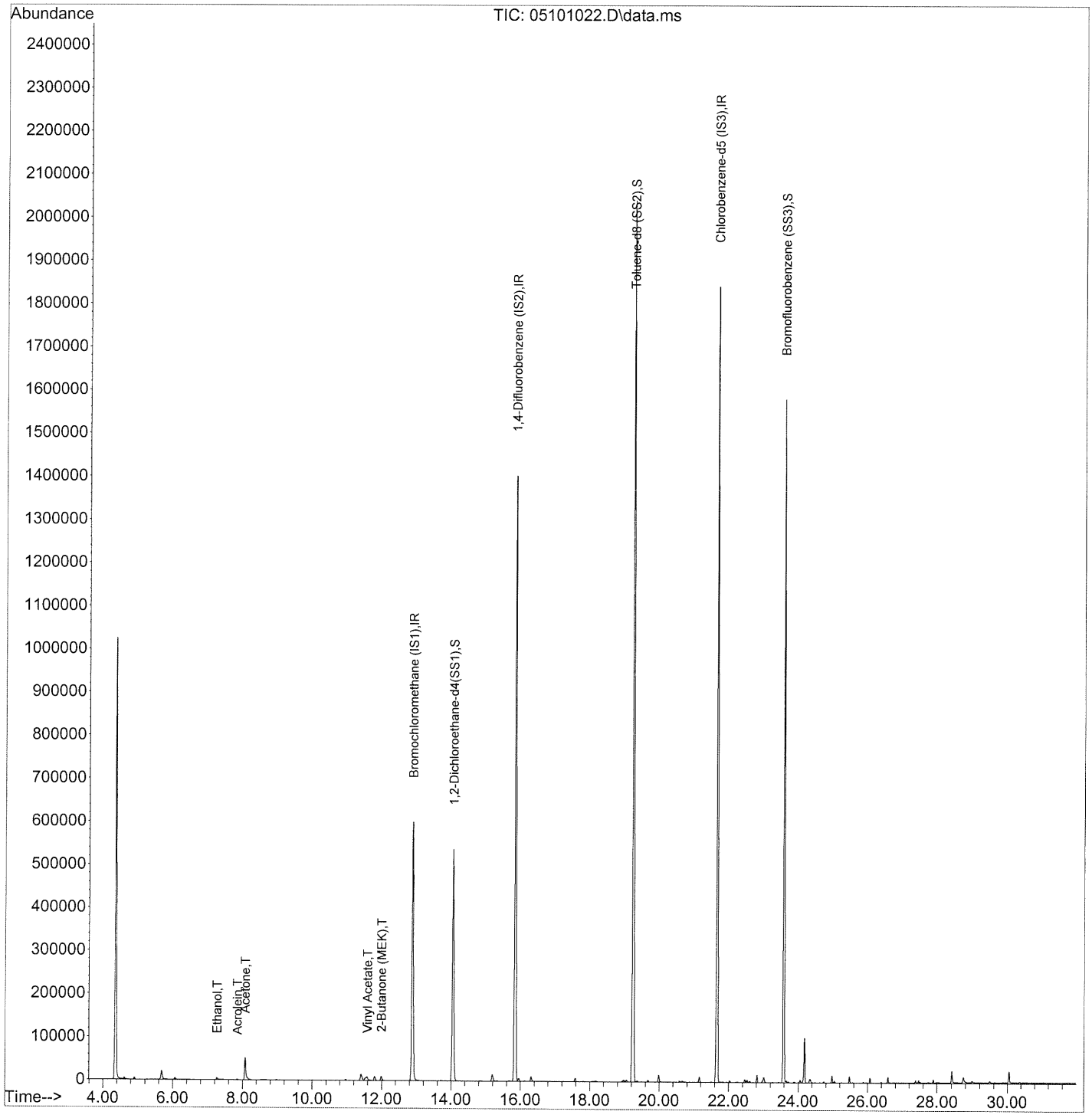
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rev Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101022.D
Acq On : 11 May 2010 3:04
Operator : WA
Sample : P1001603-010 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 15 17:19:39 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

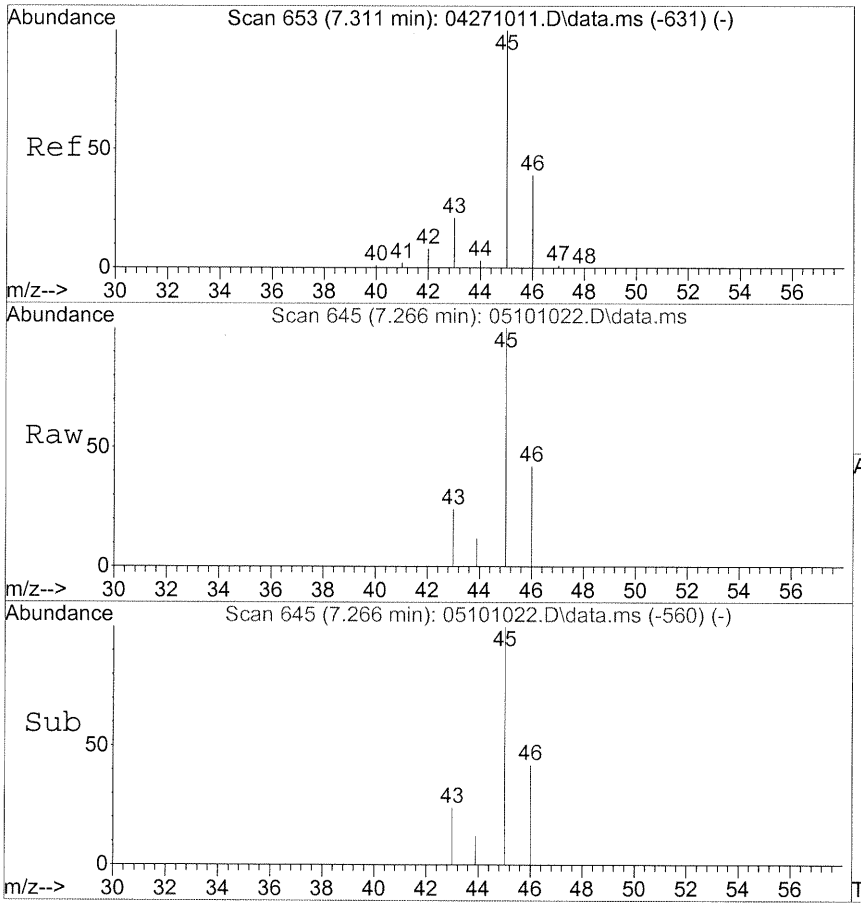
Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101022.D
Acq On : 11 May 2010 3:04
Operator : WA
Sample : P1001603-010 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 15 17:19:39 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	361282	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1745487	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	726941	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	549230	25.188	ng		0.00
Spiked Amount 25.000			Recovery = 100.76%				✓
57) Toluene-d8 (SS2)	19.24	98	1833908	25.013	ng		0.00
Spiked Amount 25.000			Recovery = 100.04%				✓
73) Bromofluorobenzene (SS3)	23.58	174	622141	24.225	ng		0.00
Spiked Amount 25.000			Recovery = 96.88%				✓
Target Compounds							Qvalue
10) Ethanol	7.27	45	9327	0.748	ng		82
12) Acrolein	7.85	56	2337	0.190	ng		90
13) Acetone	8.08	58	36001	2.260	ng	#	62
26) Vinyl Acetate	11.59	86	2413	0.435	ng	#	1
27) 2-Butanone (MEK)	11.99	72	5083	0.347	ng	#	72

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

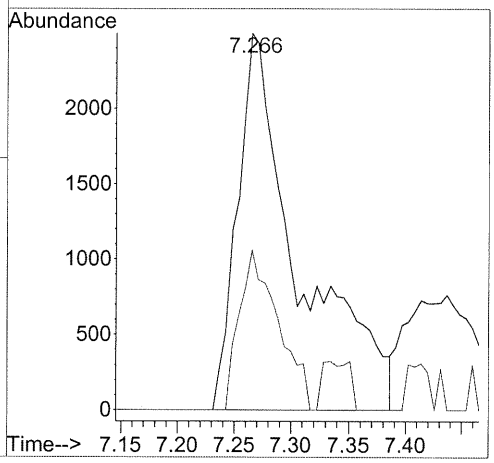
µDH 5/17/10

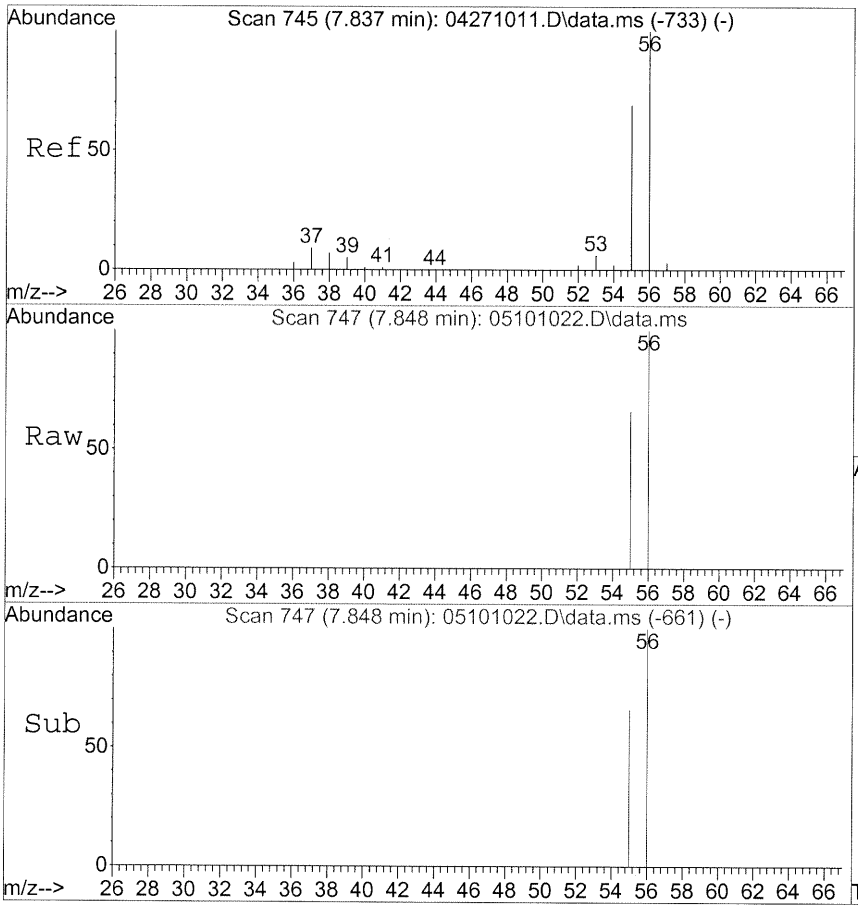


#10
Ethanol
Concen: 0.75 ng
RT: 7.27 min Scan# 645
Delta R.T. -0.017 min
Lab File: 05101022.D
Acq: 11 May 2010 3:04

Tgt Ion: 45 Resp: 9327

Ion	Ratio	Lower	Upper
45	100		
46	27.3	18.4	58.4

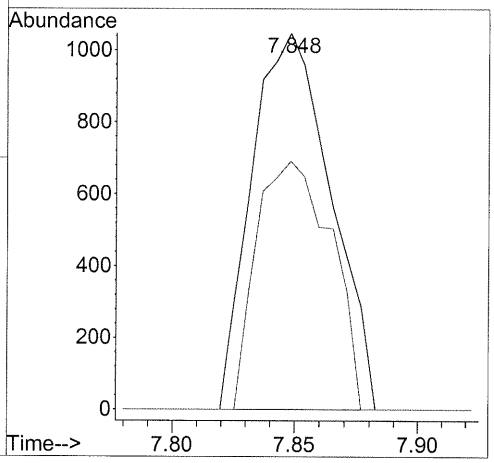


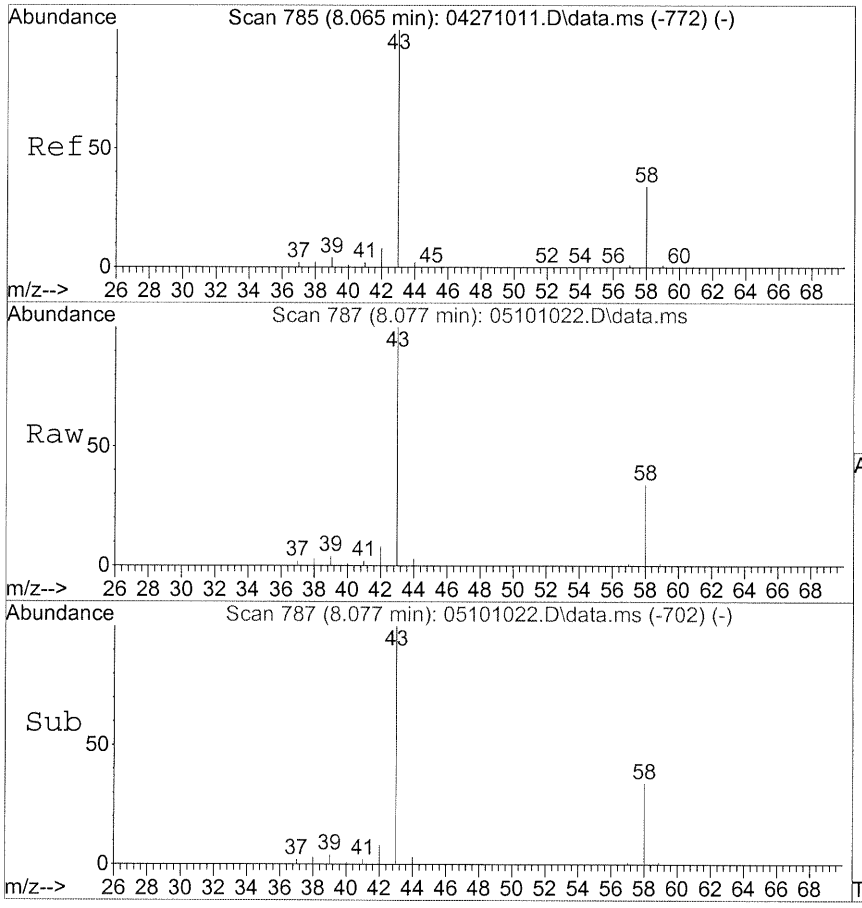


#12
Acrolein
Concen: 0.19 ng
RT: 7.85 min Scan# 747
Delta R.T. -0.011 min
Lab File: 05101022.D
Acq: 11 May 2010 3:04

Tgt Ion: 56 Resp: 2337

Ion	Ratio	Lower	Upper
56	100		
55	62.4	50.5	90.5

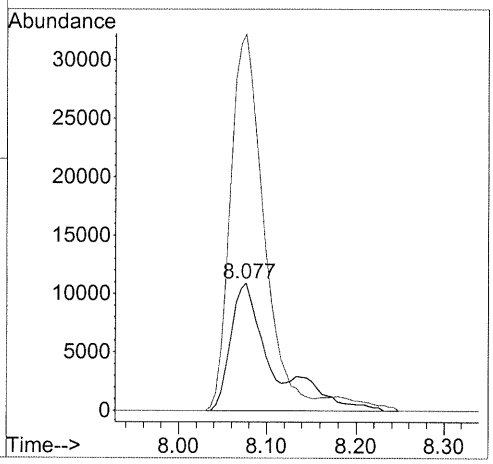


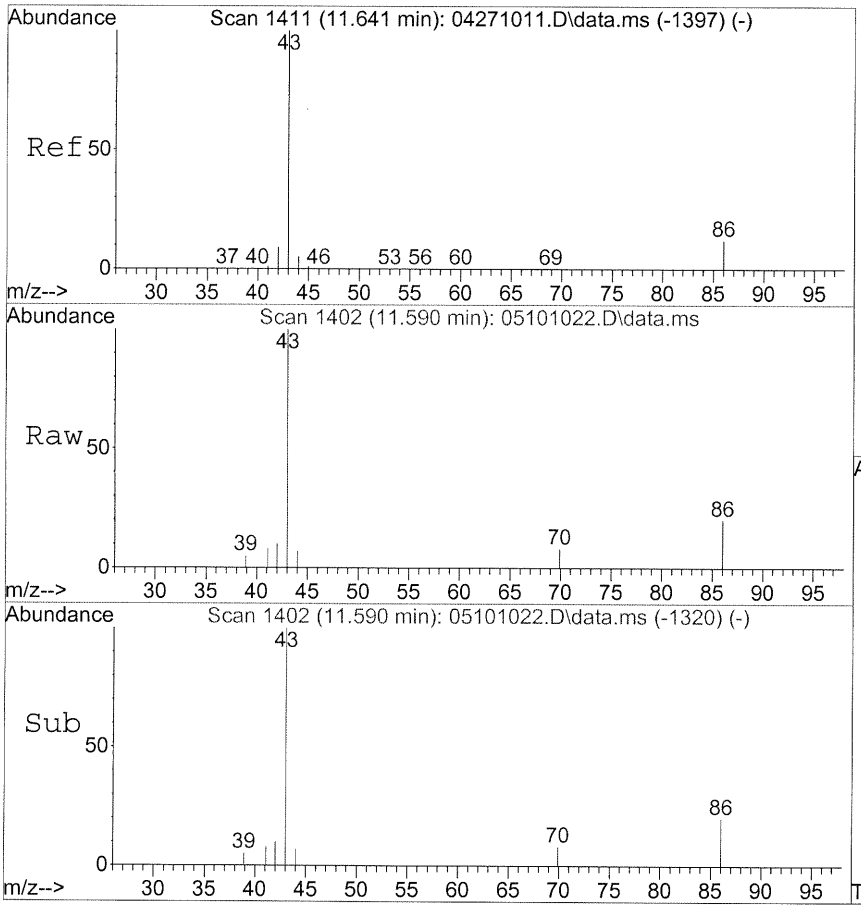


#13
Acetone
Concen: 2.26 ng
RT: 8.08 min Scan# 787
Delta R.T. -0.017 min
Lab File: 05101022.D
Acq: 11 May 2010 3:04

Tgt Ion: 58 Resp: 36001

Ion	Ratio	Lower	Upper
58	100		
43	246.8	295.0	355.0#

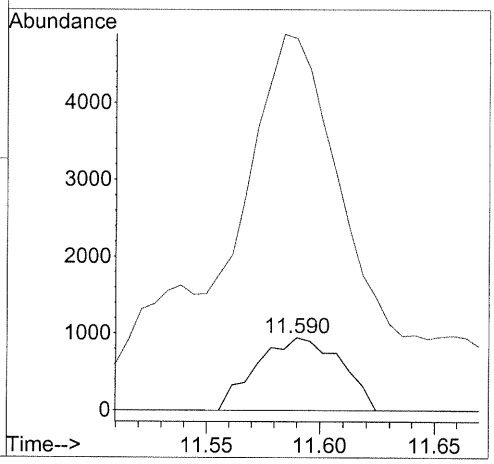


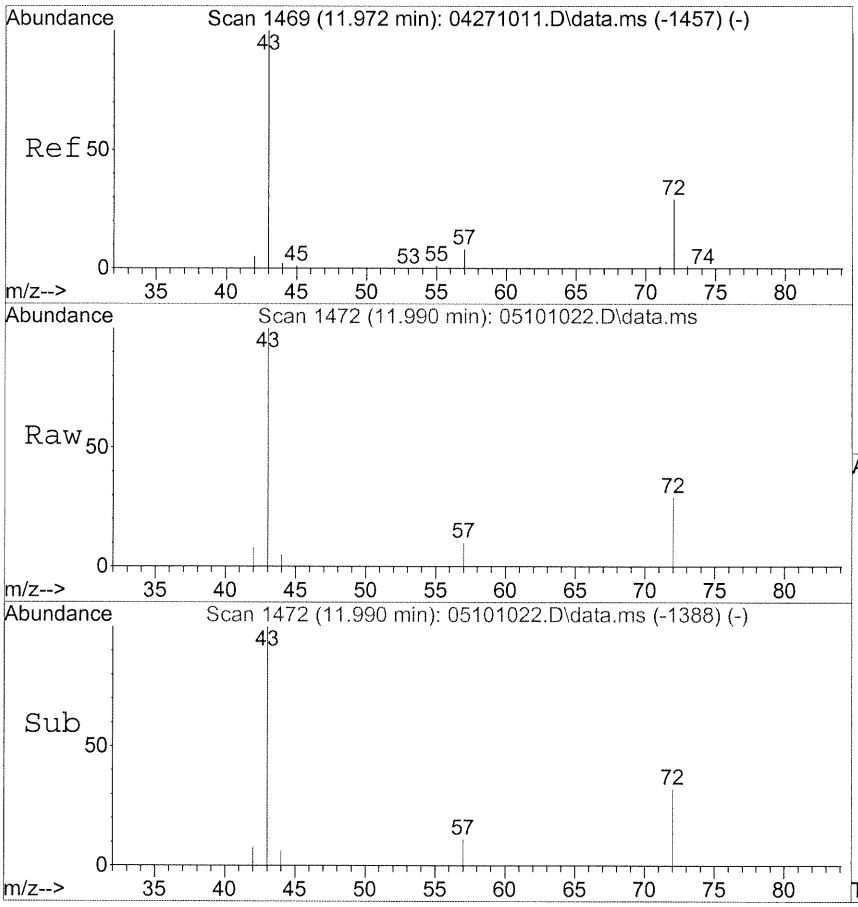


#26
Vinyl Acetate
Concen: 0.44 ng
RT: 11.59 min Scan# 1402
Delta R.T. -0.034 min
Lab File: 05101022.D
Acq: 11 May 2010 3:04

Tgt Ion: 86 Resp: 2413

Ion	Ratio	Lower	Upper
86	100		
43	756.2	1285.5	1325.5#

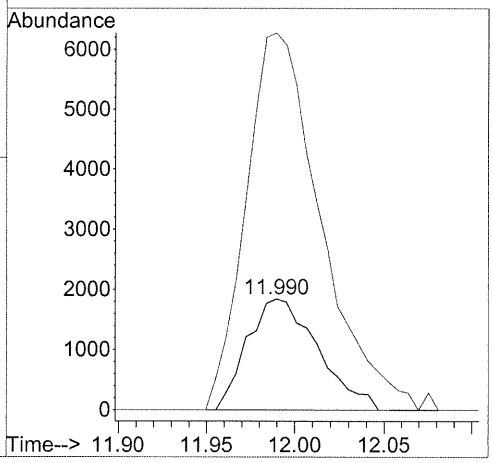




#27
2-Butanone (MEK)
Concen: 0.35 ng
RT: 11.99 min Scan# 1472
Delta R.T. -0.023 min
Lab File: 05101022.D
Acq: 11 May 2010 3:04

Tgt Ion: 72 Resp: 5083

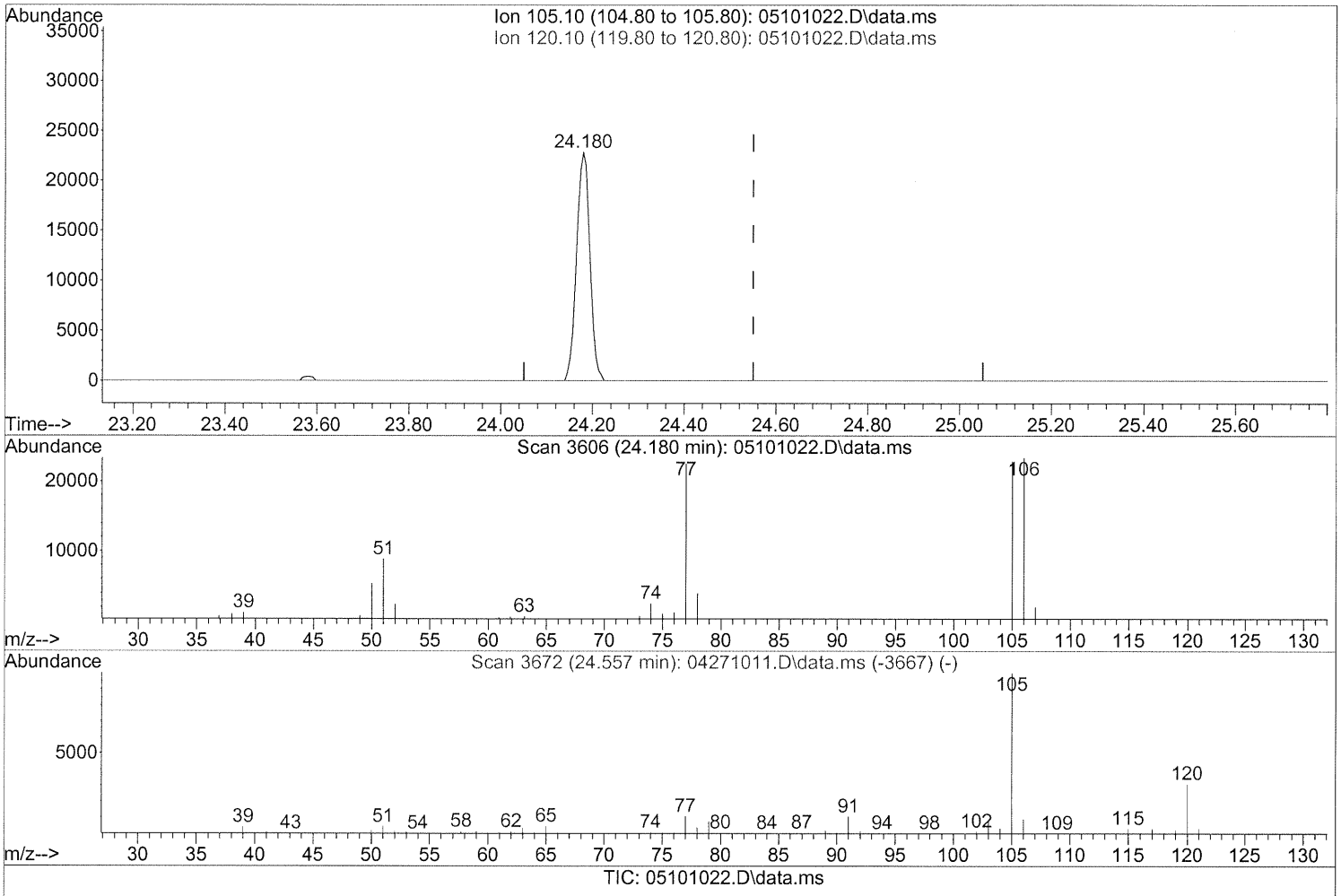
Ion	Ratio	Lower	Upper
72	100		
43	361.6	412.3	452.3#



Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101022.D
Acq On : 11 May 2010 3:04
Operator : WA
Sample : P1001603-010 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 11 03:53:56 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101022.D\data.ms

(78) 4-Ethyltoluene (T)

24.180min (-0.371) 0.40ng

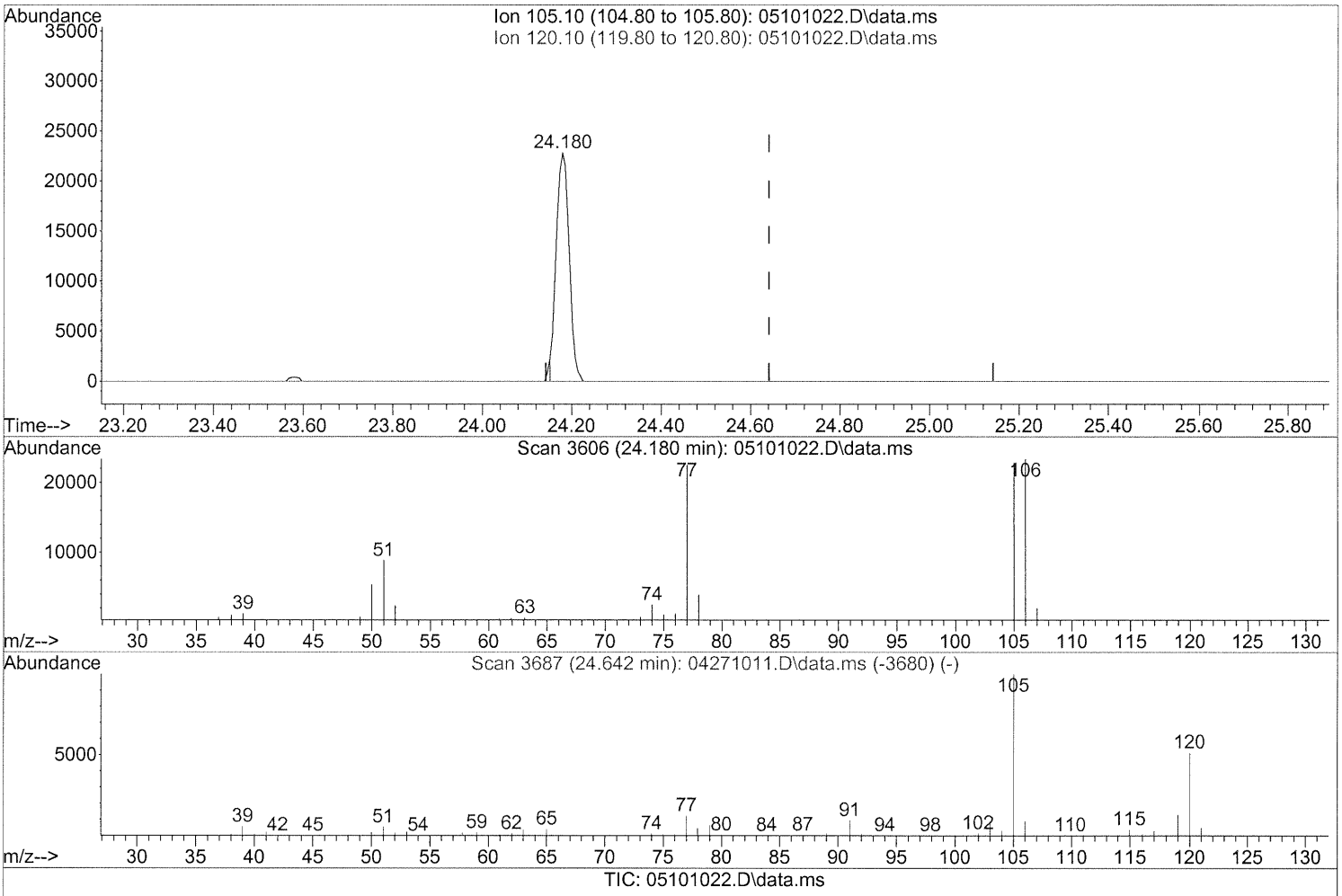
response 46143

Ion	Exp%	Act%
105.10	100	100
120.10	28.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101022.D
Acq On : 11 May 2010 3:04
Operator : WA
Sample : P1001603-010 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 11 03:53:56 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101022.D\data.ms

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

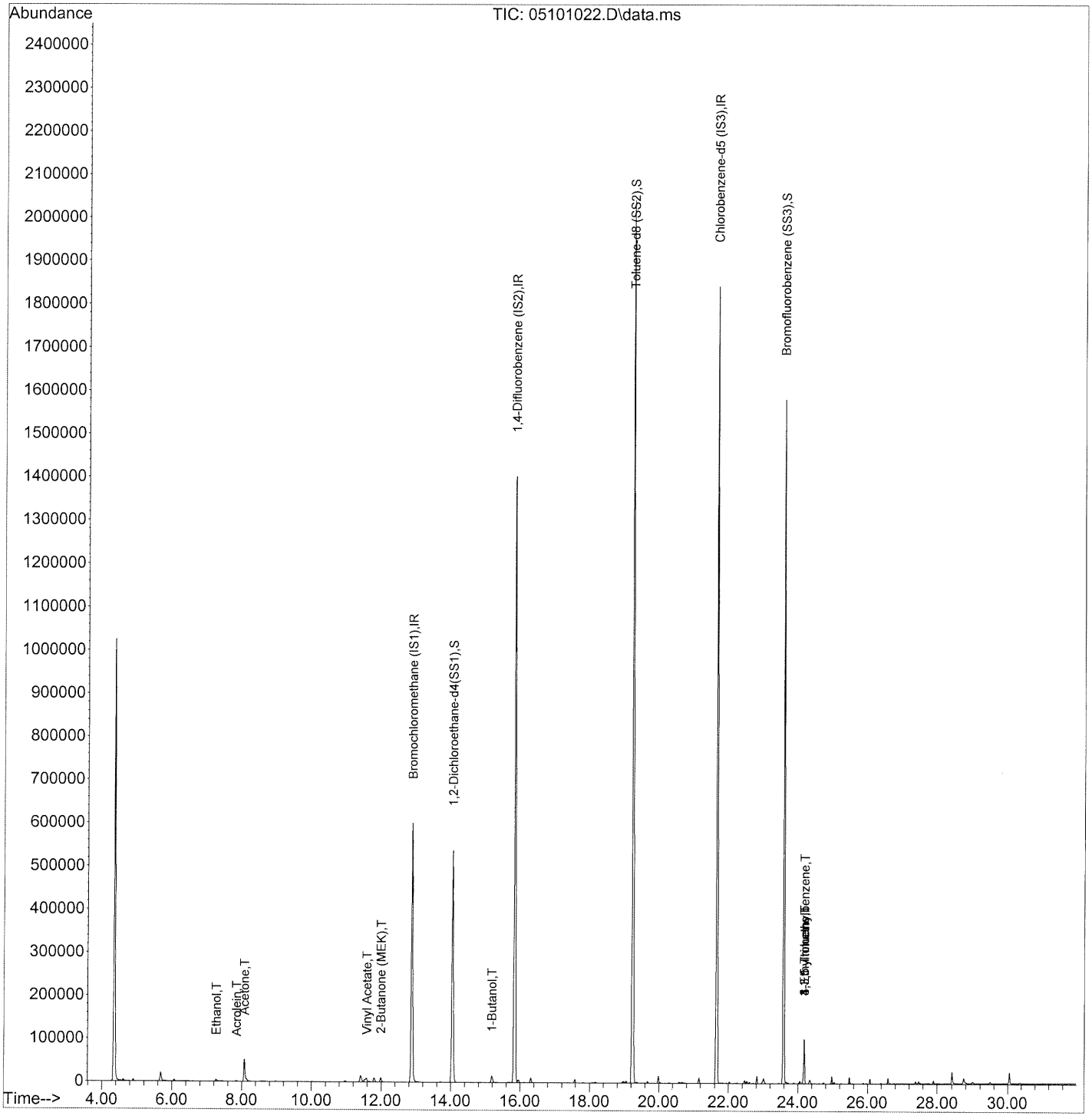
24.180min (-0.463) 0.48ng

response 45107

Ion	Exp%	Act%
105.10	100	100
120.10	46.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101022.D
Acq On : 11 May 2010 3:04
Operator : WA
Sample : P1001603-010 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 11 03:53:56 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101022.D
Acq On : 11 May 2010 3:04
Operator : WA
Sample : P1001603-010 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 11 03:53:56 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	361282	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1745487	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	726941	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	549230	25.188	ng		0.00
Spiked Amount 25.000			Recovery = 100.76%				
57) Toluene-d8 (SS2)	19.24	98	1833908	25.013	ng		0.00
Spiked Amount 25.000			Recovery = 100.04%				
73) Bromofluorobenzene (SS3)	23.58	174	622141	24.225	ng		0.00
Spiked Amount 25.000			Recovery = 96.88%				
Target Compounds							Qvalue
2) Propene	4.90	42	1739	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	7.27	45	9327	0.748	ng		82
11) Acetonitrile	0.00	41	0	N.D.			
12) Acrolein	7.85	56	2337	0.190	ng		90
13) Acetone	8.08	58	36001	2.260	ng	#	62
14) Trichlorofluoromethane	0.00	101	0	N.D.			
15) 2-Propanol (Isopropanol)	8.55	45	2409	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	9.59	84	493	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	10.02	76	954	N.D.			
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	11.59	86	2413	0.435	ng	#	1
27) 2-Butanone (MEK)	11.99	72	5083	0.347	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	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101022.D
Acq On : 11 May 2010 3:04
Operator : WA
Sample : P1001603-010 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 11 03:53:56 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	15.19	56	14552	0.691 ng	#	75
41) Benzene	15.32	78	1689	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.84	84	1060	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	18.10	58	184	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.36	91	2973	N.D.		
59) 2-Hexanone	19.67	43	3803	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.65	43	401	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.84	166	87	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	0.00	91	0	N.D.		
67) m- & p-Xylenes	0.00	91	0	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	23.27	43	481	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.58	105	588	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.18	105	46143	0.404 ng	#	44
78) 4-Ethyltoluene	24.18	105	46143	0.401 ng	#	47
79) 1,3,5-Trimethylbenzene	24.18	105	45107	0.480 ng	#	30

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101022.D
Acq On : 11 May 2010 3:04
Operator : WA
Sample : P1001603-010 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 11 03:53:56 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	25.25	57	208	N.D.		
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	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	26.07	105	7381	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	26.76	57	548	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	28.05	128	1231	N.D.		
96) n-Dodecane	28.00	57	690	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.61	55	1942	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	26.16	91	560	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Method Blank** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P100510-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/10/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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	0.20	ND	0.097	
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	0.20	ND	0.090	
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	2.0	ND	0.87	
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	1.0	ND	0.41	
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	5.0	ND	1.6	
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	5.0	ND	1.7	

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: KC Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P100510-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/10/10
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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: Re Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P100510-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/10/10
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

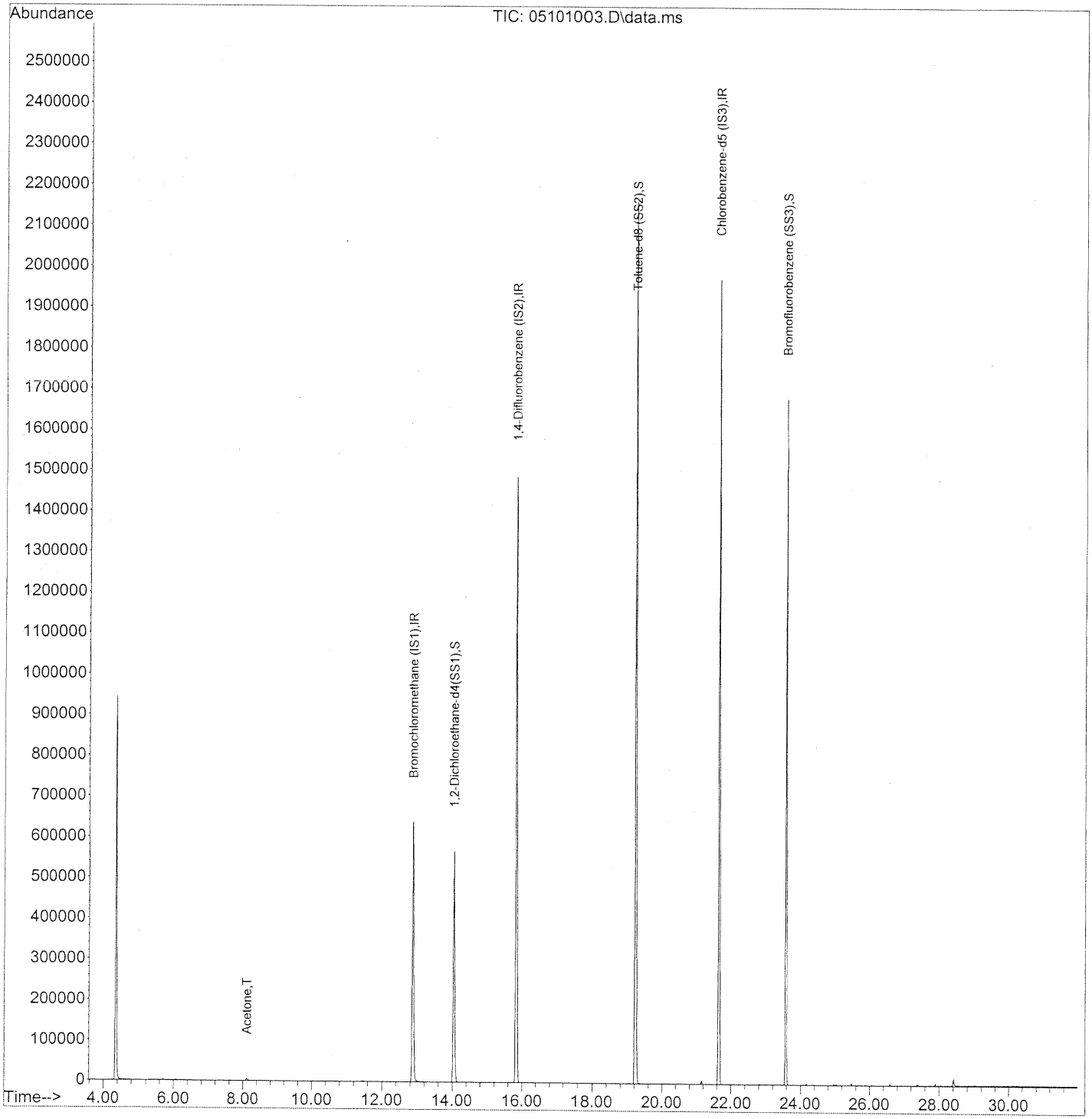
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 5/19/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101003.D
Acq On : 10 May 2010 13:28
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-04261002
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101003.D
Acq On : 10 May 2010 13:28
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-04261002
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	386875	25.000 ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1839145	25.000 ng	0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	774494	25.000 ng	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4(...	14.05	65	579088	24.801 ng	0.00
Spiked Amount 25.000			Recovery =	99.20%	
57) Toluene-d8 (SS2)	19.23	98	1956429	25.046 ng	0.00
Spiked Amount 25.000			Recovery =	100.20%	
73) Bromofluorobenzene (SS3)	23.58	174	666465	24.357 ng	0.00
Spiked Amount 25.000			Recovery =	97.44%	
Target Compounds					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	0.00	45	0	N.D.	
11) Acetonitrile	7.64	41	691	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) Acetone	8.11	58	3429	0.201 ng	# 83
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	9.59	84	428	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	10.03	76	887	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.	

5/11 5/10/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101003.D
Acq On : 10 May 2010 13:28
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-04261002
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	15.21	56	990	N.D.	
41) Benzene	15.31	78	402	N.D.	
42) Carbon Tetrachloride	0.00	117	0	N.D.	
43) Cyclohexane	15.84	84	1016	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	0.00	97	0	N.D.	
58) Toluene	19.37	91	550	N.D.	
59) 2-Hexanone	19.68	43	95	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	0.00	91	0	N.D.	
67) m- & p-Xylenes	0.00	91	0	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	23.04	43	391	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	23.58	105	995	N.D.	
75) alpha-Pinene	0.00	93	0	N.D.	
76) n-Propylbenzene	0.00	91	0	N.D.	
77) 3-Ethyltoluene	24.19	105	1691	N.D.	
78) 4-Ethyltoluene	24.19	105	1691	N.D.	
79) 1,3,5-Trimethylbenzene	24.19	105	1691	N.D.	

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101003.D
Acq On : 10 May 2010 13:28
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-04261002
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	25.48	57	3120	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	25.42	146	101	N.D.		
86) 1,4-Dichlorobenzene	25.42	146	101	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	26.07	105	808	N.D.		
90) 1,2-Dichlorobenzene	25.42	146	101	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	26.59	57	1491	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	28.05	128	1722	N.D.		
96) n-Dodecane	27.90	57	1064	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	26.16	91	94	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Method Blank** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P100511-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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	0.20	ND	0.097	
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	0.20	ND	0.090	
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	2.0	ND	0.87	
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	1.0	ND	0.41	
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	5.0	ND	1.6	
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	5.0	ND	1.7	

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: Re Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Method Blank** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P100511-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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: Rc Date: 5/19/10

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P100511-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

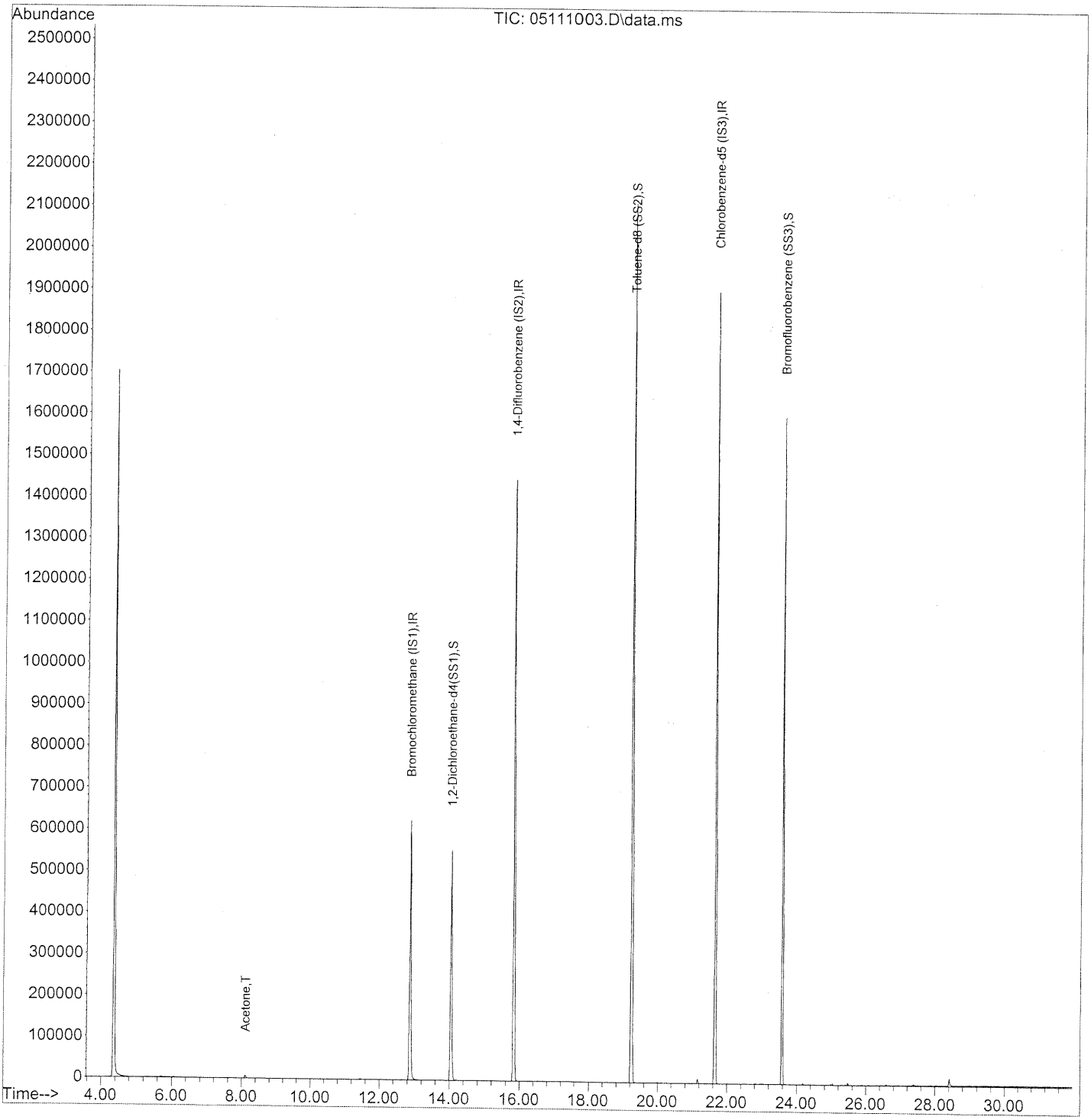
CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	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	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 5/19/10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111003.D
Acq On : 11 May 2010 9:21
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-04261002
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 11:52:16 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111003.D
Acq On : 11 May 2010 9:21
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-04261002
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 11:52:16 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	373035	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1794589	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	752730	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	14.05	65	562565	24.987	ng	0.00
Spiked Amount 25.000			Recovery =	99.96%		
57) Toluene-d8 (SS2)	19.24	98	1894623	24.956	ng	0.00
Spiked Amount 25.000			Recovery =	99.84%		
73) Bromofluorobenzene (SS3)	23.58	174	635899	23.912	ng	0.00
Spiked Amount 25.000			Recovery =	95.64%		
Target Compounds						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	7.29	45	1050	N.D.		
11) Acetonitrile	7.63	41	877	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	8.11	58	3988	0.242	ng	# 85
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	9.59	84	576	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	10.02	76	1062	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.		

5/11/10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111003.D
Acq On : 11 May 2010 9:21
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-04261002
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 11:52:16 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	15.22	56	1202	N.D.	
41) Benzene	15.31	78	422	N.D.	
42) Carbon Tetrachloride	0.00	117	0	N.D.	
43) Cyclohexane	15.84	84	927	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	0.00	97	0	N.D.	
58) Toluene	19.36	91	368	N.D.	
59) 2-Hexanone	19.70	43	293	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	0.00	91	0	N.D.	
67) m- & p-Xylenes	0.00	91	0	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	23.05	43	213	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	23.79	105	86	N.D.	
75) alpha-Pinene	0.00	93	0	N.D.	
76) n-Propylbenzene	0.00	91	0	N.D.	
77) 3-Ethyltoluene	24.50	105	111	N.D.	
78) 4-Ethyltoluene	24.50	105	111	N.D.	
79) 1,3,5-Trimethylbenzene	24.50	105	111	N.D.	

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111003.D
Acq On : 11 May 2010 9:21
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-04261002
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 11:52:16 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	25.15	105	89	N.D.		
82) 1,2,4-Trimethylbenzene	25.15	105	89	N.D.		
83) n-Decane	25.48	57	2831	N.D.		
84) Benzyl Chloride	25.31	91	88	N.D.		
85) 1,3-Dichlorobenzene	25.43	146	340	N.D.		
86) 1,4-Dichlorobenzene	25.43	146	340	N.D.		
87) sec-Butylbenzene	25.15	105	89	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	26.07	105	770	N.D.		
90) 1,2-Dichlorobenzene	25.43	146	340	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	26.59	57	703	N.D.		
94) 1,2,4-Trichlorobenzene	27.89	180	286	N.D.		
95) Naphthalene	28.05	128	2569	N.D.		
96) n-Dodecane	27.90	57	202	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.62	55	185	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

Client: **Environmental Health & Engineering, Inc.**
Client Project ID: **17131** CAS Project ID: P1001603

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 5/6/10
Date(s) Received: 5/7/10
Date(s) Analyzed: 5/10 - 5/11/10

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4 % Recovered	Acceptance Limits	Toluene-d8 % Recovered	Acceptance Limits	Bromofluorobenzene % Recovered	Acceptance Limits	Data Qualifier
Method Blank	P100510-MB	**99**	70-130	**100**	70-130	**97**	70-130	
Method Blank	P100511-MB	**100**	70-130	**100**	70-130	**96**	70-130	
Lab Control Sample	P100510-LCS	**98**	70-130	**100**	70-130	**99**	70-130	
Lab Control Sample	P100511-LCS	**97**	70-130	**99**	70-130	**98**	70-130	
110256	P1001603-001	**99**	70-130	**98**	70-130	**98**	70-130	
110256	P1001603-001DUP	**98**	70-130	**98**	70-130	**97**	70-130	
110257	P1001603-002	**98**	70-130	**99**	70-130	**97**	70-130	
110258	P1001603-003	**100**	70-130	**100**	70-130	**97**	70-130	
110259	P1001603-004	**98**	70-130	**98**	70-130	**97**	70-130	
110288	P1001603-005	**101**	70-130	**100**	70-130	**97**	70-130	
110305	P1001603-006	**99**	70-130	**80**	70-130	**82**	70-130	
110306	P1001603-007	**98**	70-130	**82**	70-130	**84**	70-130	
110307	P1001603-008	**99**	70-130	**99**	70-130	**98**	70-130	
110309	P1001603-009	**99**	70-130	**79**	70-130	**82**	70-130	
110353	P1001603-010	**101**	70-130	**100**	70-130	**97**	70-130	

Verified By: RG Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P100510-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/10/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
115-07-1	Propene	26.3	**28.9**	**110**	58-133	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	**22.1**	**85**	63-114	
74-87-3	Chloromethane	25.0	**21.8**	**87**	60-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**22.1**	**85**	63-118	
75-01-4	Vinyl Chloride	25.3	**22.3**	**88**	63-123	
106-99-0	1,3-Butadiene	26.8	**24.6**	**92**	63-141	
74-83-9	Bromomethane	25.8	**22.6**	**88**	67-133	
75-00-3	Chloroethane	25.5	**23.0**	**90**	65-122	
64-17-5	Ethanol	130	**128**	**98**	54-137	
75-05-8	Acetonitrile	26.0	**24.8**	**95**	59-128	
107-02-8	Acrolein	26.3	**21.2**	**81**	61-131	
67-64-1	Acetone	132	**115**	**87**	60-117	
75-69-4	Trichlorofluoromethane	26.3	**21.8**	**83**	62-125	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	**34.1**	**71**	57-125	
107-13-1	Acrylonitrile	25.8	**25.9**	**100**	66-136	
75-35-4	1,1-Dichloroethene	27.5	**25.0**	**91**	71-121	
75-09-2	Methylene Chloride	26.8	**22.6**	**84**	67-109	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	**27.2**	**101**	64-145	
76-13-1	Trichlorotrifluoroethane	27.5	**23.9**	**87**	71-124	
75-15-0	Carbon Disulfide	26.0	**24.0**	**92**	64-119	
156-60-5	trans-1,2-Dichloroethene	25.5	**24.0**	**94**	68-126	
75-34-3	1,1-Dichloroethane	26.5	**23.9**	**90**	67-124	
1634-04-4	Methyl tert-Butyl Ether	26.3	**23.6**	**90**	67-124	
108-05-4	Vinyl Acetate	126	**103**	**82**	50-171	
78-93-3	2-Butanone (MEK)	26.8	**25.4**	**95**	69-136	

Verified By: RG Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P100510-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/10/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	27.0	**24.9**	**92**	68-123	
141-78-6	Ethyl Acetate	52.0	**50.0**	**96**	75-131	
110-54-3	n-Hexane	26.0	**23.9**	**92**	63-118	
67-66-3	Chloroform	27.5	**23.5**	**85**	66-124	
109-99-9	Tetrahydrofuran (THF)	26.5	**24.3**	**92**	66-129	
107-06-2	1,2-Dichloroethane	26.3	**23.1**	**88**	64-125	
71-55-6	1,1,1-Trichloroethane	26.0	**23.6**	**91**	71-123	
71-43-2	Benzene	25.8	**22.6**	**88**	63-112	
56-23-5	Carbon Tetrachloride	26.3	**24.8**	**94**	73-129	
110-82-7	Cyclohexane	51.8	**47.5**	**92**	68-118	
78-87-5	1,2-Dichloropropane	26.0	**24.0**	**92**	74-122	
75-27-4	Bromodichloromethane	26.3	**24.7**	**94**	75-125	
79-01-6	Trichloroethene	25.8	**23.6**	**91**	66-120	
123-91-1	1,4-Dioxane	26.0	**23.3**	**90**	75-127	
80-62-6	Methyl Methacrylate	52.8	**51.6**	**98**	80-130	
142-82-5	n-Heptane	25.8	**24.0**	**93**	71-121	
10061-01-5	cis-1,3-Dichloropropene	24.5	**24.0**	**98**	77-130	
108-10-1	4-Methyl-2-pentanone	26.8	**25.2**	**94**	74-134	
10061-02-6	trans-1,3-Dichloropropene	27.0	**27.2**	**101**	78-134	
79-00-5	1,1,2-Trichloroethane	26.0	**24.2**	**93**	76-122	
108-88-3	Toluene	26.8	**23.8**	**89**	66-120	
591-78-6	2-Hexanone	27.0	**23.4**	**87**	72-135	
124-48-1	Dibromochloromethane	28.3	**27.1**	**96**	79-136	
106-93-4	1,2-Dibromoethane	26.3	**24.7**	**94**	76-129	
123-86-4	n-Butyl Acetate	27.5	**23.2**	**84**	68-138	

Verified By: RG Date: 5/11/10

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P100510-LCS

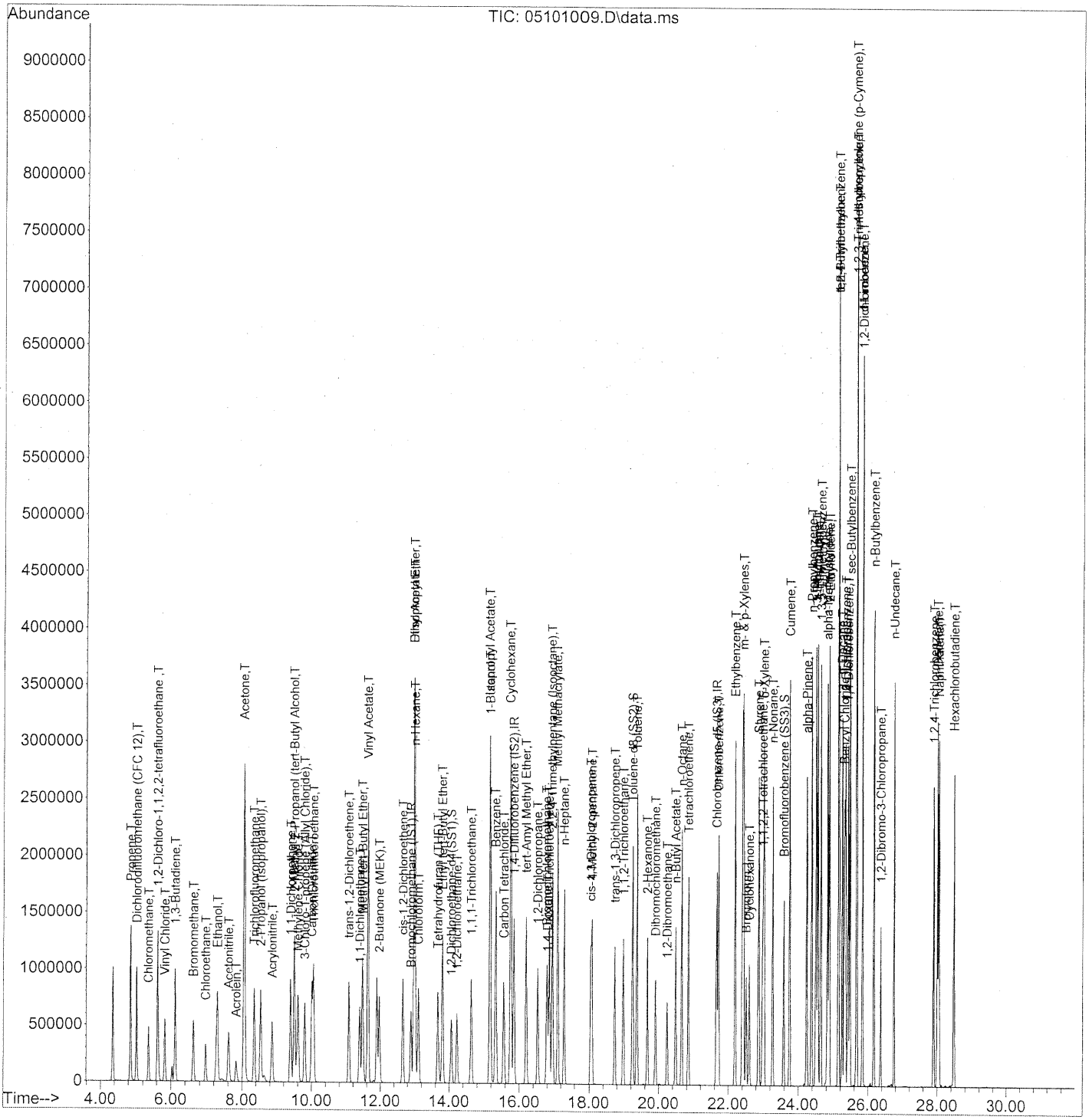
Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/10/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	26.3	**25.2**	**96**	71-122	
127-18-4	Tetrachloroethene	25.3	**22.2**	**88**	65-132	
108-90-7	Chlorobenzene	26.5	**23.5**	**89**	66-122	
100-41-4	Ethylbenzene	26.3	**24.2**	**92**	69-122	
179601-23-1	m,p-Xylenes	51.5	**47.6**	**92**	69-122	
75-25-2	Bromoform	26.5	**25.5**	**96**	73-150	
100-42-5	Styrene	26.3	**25.1**	**95**	75-130	
95-47-6	o-Xylene	26.0	**24.0**	**92**	69-122	
111-84-2	n-Nonane	25.8	**24.5**	**95**	68-125	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	**24.9**	**92**	80-126	
98-82-8	Cumene	25.3	**22.8**	**90**	70-123	
80-56-8	alpha-Pinene	24.8	**22.5**	**91**	75-128	
103-65-1	n-Propylbenzene	25.3	**23.4**	**92**	70-125	
622-96-8	4-Ethyltoluene	26.3	**24.2**	**92**	71-129	
108-67-8	1,3,5-Trimethylbenzene	26.5	**24.9**	**94**	71-125	
95-63-6	1,2,4-Trimethylbenzene	25.5	**24.9**	**98**	69-132	
100-44-7	Benzyl Chloride	26.8	**26.1**	**97**	78-144	
541-73-1	1,3-Dichlorobenzene	26.0	**24.5**	**94**	65-132	
106-46-7	1,4-Dichlorobenzene	26.3	**23.9**	**91**	66-126	
95-50-1	1,2-Dichlorobenzene	25.8	**24.4**	**95**	67-134	
5989-27-5	d-Limonene	26.5	**26.1**	**98**	68-149	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	**26.4**	**98**	76-150	
120-82-1	1,2,4-Trichlorobenzene	27.3	**24.7**	**90**	66-145	
91-20-3	Naphthalene	25.0	**22.5**	**90**	71-147	
87-68-3	Hexachlorobutadiene	26.8	**24.4**	**91**	65-140	

Verified By: RC Date: 5/19/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101009.D
Acq On : 10 May 2010 18:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 21:26:45 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101009.D
Acq On : 10 May 2010 18:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 21:26:45 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.90	130	382629	25.000	ng		0.02
37) 1,4-Difluorobenzene (IS2)	15.85	114	1816651	25.000	ng		0.01
56) Chlorobenzene-d5 (IS3)	21.66	82	756842	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.06	65	566983	24.552	ng		0.02
Spiked Amount 25.000			Recovery =	98.20%			
57) Toluene-d8 (SS2)	19.24	98	1904769	24.953	ng		0.00
Spiked Amount 25.000			Recovery =	99.80%			
73) Bromofluorobenzene (SS3)	23.59	174	660750	24.712	ng		0.00
Spiked Amount 25.000			Recovery =	98.84%			
Target Compounds							Qvalue
2) Propene	4.86	42	627096	28.929	ng		99
3) Dichlorodifluoromethan...	5.03	85	1127779	22.123	ng		99
4) Chloromethane	5.36	50	673474	21.795	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	654609	22.105	ng		100
6) Vinyl Chloride	5.83	62	773119	22.336	ng		100
7) 1,3-Butadiene	6.12	54	621695	24.646	ng		92
8) Bromomethane	6.63	94	523278	22.641	ng		99
9) Chloroethane	6.98	64	406829	23.038	ng		99
10) Ethanol	7.31	45	1693280m	128.245	ng		
11) Acetonitrile	7.62	41	794434	24.832	ng		99
12) Acrolein	7.84	56	276064	21.201	ng		98
13) Acetone	8.06	58	1948194	115.469	ng	#	85
14) Trichlorofluoromethane	8.35	101	1009927	21.769	ng		99
15) 2-Propanol (Isopropanol)	8.53	45	1678421	34.144	ng		100
16) Acrylonitrile	8.86	53	665263	25.873	ng		99
17) 1,1-Dichloroethene	9.40	96	581925	24.997	ng	#	73
18) 2-Methyl-2-Propanol (t...	9.50	59	2434651	41.965	ng		96
19) Methylene Chloride	9.61	84	574019	22.620	ng	#	73
20) 3-Chloro-1-propene (Al...	9.80	41	696751	27.183	ng		80
21) Trichlorotrifluoroethane	10.06	151	554892	23.863	ng	#	76
22) Carbon Disulfide	10.01	76	1968971	24.018	ng		98
23) trans-1,2-Dichloroethene	11.08	61	736145	23.991	ng		77
24) 1,1-Dichloroethane	11.40	63	953032	23.857	ng		100
25) Methyl tert-Butyl Ether	11.48	73	1687968	23.627	ng		94
26) Vinyl Acetate	11.64	86	604543	102.963	ng	#	22
27) 2-Butanone (MEK)	11.97	72	393071	25.365	ng	#	63
28) cis-1,2-Dichloroethene	12.66	61	742661	24.945	ng		76
29) Diisopropyl Ether	12.99	87	512468	24.147	ng	#	34
30) Ethyl Acetate	12.99	61	411271	49.970	ng		90
31) n-Hexane	13.02	57	936957	23.885	ng	#	97

5/11/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101009.D
Acq On : 10 May 2010 18:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 21:26:45 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.11	83	981004	23.530	ng		99
34) Tetrahydrofuran (THF)	13.67	72	366104	24.319	ng	#	76
35) Ethyl tert-Butyl Ether	13.81	87	720329	23.074	ng	#	76
36) 1,2-Dichloroethane	14.22	62	721783	23.068	ng		99
38) 1,1,1-Trichloroethane	14.63	97	899140	23.569	ng		95
39) Isopropyl Acetate	15.17	61	710056	50.896	ng	#	84
40) 1-Butanol	15.18	56	984939	44.956	ng		87
41) Benzene	15.33	78	2333544	22.564	ng		99
42) Carbon Tetrachloride	15.56	117	789598	24.849	ng		99
43) Cyclohexane	15.75	84	1829211	47.505	ng	#	80
44) tert-Amyl Methyl Ether	16.20	73	1649522	23.669	ng		91
45) 1,2-Dichloropropane	16.53	63	539890	23.980	ng		99
46) Bromodichloromethane	16.79	83	767738	24.725	ng		98
47) Trichloroethene	16.86	130	681025	23.596	ng		99
48) 1,4-Dioxane	16.81	88	469676	23.296	ng		82
49) 2,2,4-Trimethylpentane...	16.95	57	2255444	23.742	ng		95
50) Methyl Methacrylate	17.11	100	565783	51.632	ng	#	62
51) n-Heptane	17.30	71	591460	24.040	ng		88
52) cis-1,3-Dichloropropene	18.04	75	884646	24.030	ng		99
53) 4-Methyl-2-pentanone	18.08	58	493347	25.191	ng	#	84
54) trans-1,3-Dichloropropene	18.74	75	906637	27.200	ng		100
55) 1,1,2-Trichloroethane	18.98	97	575687	24.169	ng		93
58) Toluene	19.38	91	2562091	23.799	ng		98
59) 2-Hexanone	19.67	43	1067096	23.411	ng		91
60) Dibromochloromethane	19.91	129	698355	27.137	ng		100
61) 1,2-Dibromoethane	20.24	107	673372	24.656	ng		99
62) n-Butyl Acetate	20.48	43	1207034	23.203	ng		92
63) n-Octane	20.66	57	486850	25.202	ng	#	80
64) Tetrachloroethene	20.85	166	746991	22.205	ng		100
65) Chlorobenzene	21.72	112	1678011	23.457	ng		99
66) Ethylbenzene	22.19	91	2852120	24.172	ng		95
67) m- & p-Xylenes	22.43	91	4434452	47.563	ng		93
68) Bromoform	22.51	173	616889	25.522	ng		100
69) Styrene	22.87	104	1841265	25.101	ng		94
70) o-Xylene	23.02	91	2285342	24.043	ng		93
71) n-Nonane	23.28	43	1015941	24.501	ng		85
72) 1,1,2,2-Tetrachloroethane	22.99	83	998608	24.947	ng		98
74) Cumene	23.76	105	2964749	22.825	ng		95
75) alpha-Pinene	24.25	93	1355304	22.488	ng		93
76) n-Propylbenzene	24.38	91	3520896	23.368	ng		94
77) 3-Ethyltoluene	24.51	105	2944224	24.751	ng		96
78) 4-Ethyltoluene	24.56	105	2900575	24.200	ng		95
79) 1,3,5-Trimethylbenzene	24.64	105	2440033	24.946	ng		92

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101009.D
Acq On : 10 May 2010 18:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

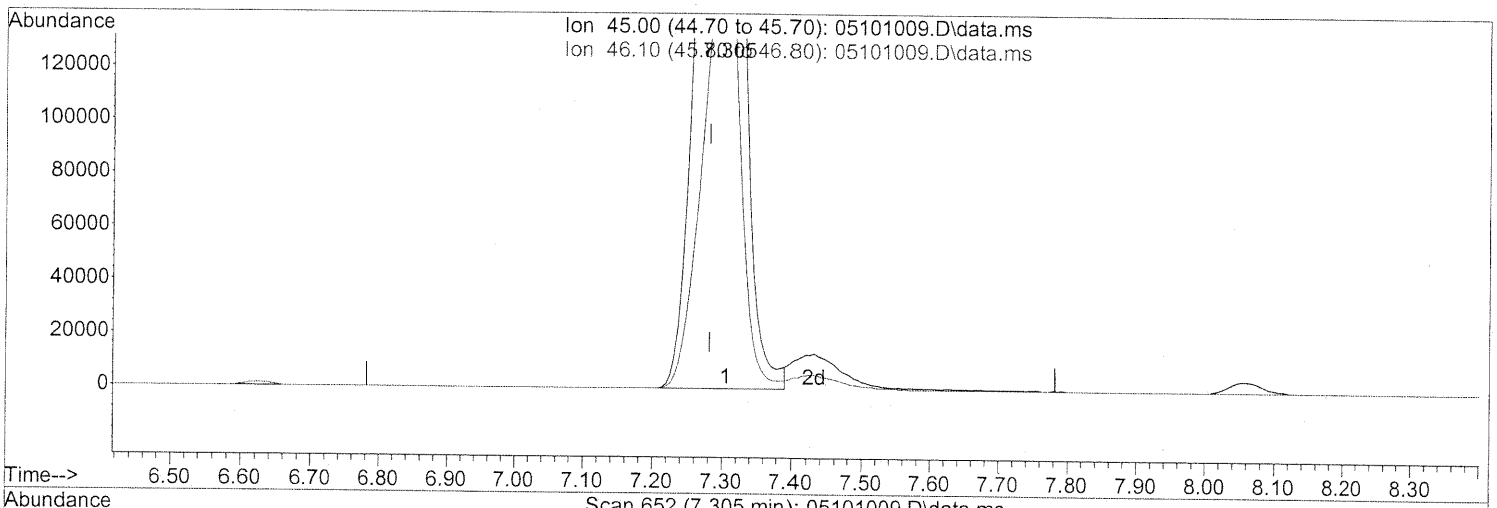
Quant Time: May 10 21:26:45 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

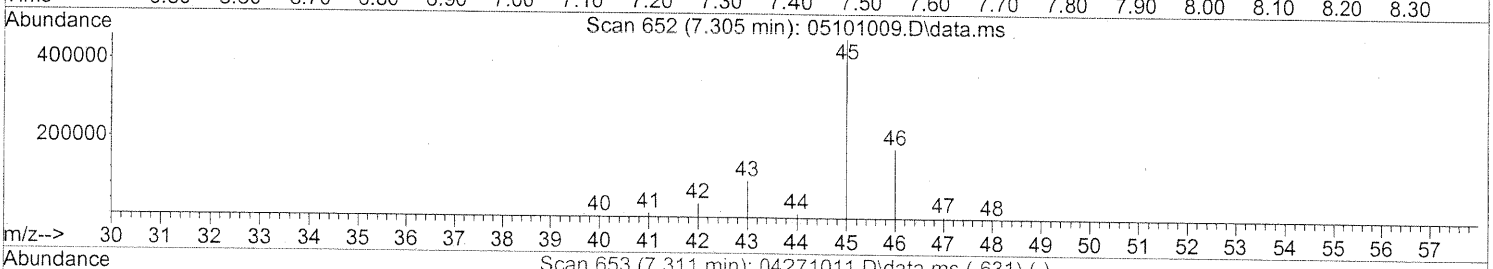
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	1332269	24.582	ng		96
81) 2-Ethyltoluene	24.88	105	2919607	23.654	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	2517285	24.889	ng		92
83) n-Decane	25.25	57	1155778	25.075	ng		89
84) Benzyl Chloride	25.31	91	1984240	26.146	ng		90
85) 1,3-Dichlorobenzene	25.35	146	1511714	24.511	ng		100
86) 1,4-Dichlorobenzene	25.42	146	1527397	23.884	ng		100
87) sec-Butylbenzene	25.48	105	3280154	23.893	ng		94
88) 4-Isopropyltoluene (p-...	25.66	119	3124959	23.925	ng		94
89) 1,2,3-Trimethylbenzene	25.67	105	2526991	24.792	ng		91
90) 1,2-Dichlorobenzene	25.84	146	1430399	24.354	ng		99
91) d-Limonene	25.84	68	915359	26.063	ng		83
92) 1,2-Dibromo-3-Chloropr...	26.36	157	498842	26.403	ng	#	60
93) n-Undecane	26.76	57	1168095	25.593	ng		89
94) 1,2,4-Trichlorobenzene	27.90	180	1024955	24.673	ng		99
95) Naphthalene	28.05	128	2893004	22.523	ng		100
96) n-Dodecane	28.01	57	1054043	22.273	ng		88
97) Hexachlorobutadiene	28.48	225	653896	24.406	ng		99
98) Cyclohexanone	22.60	55	559809	18.127	ng	#	87
99) tert-Butylbenzene	25.15	119	2517128	24.065	ng		95
100) n-Butylbenzene	26.17	91	2577972	24.748	ng	#	95

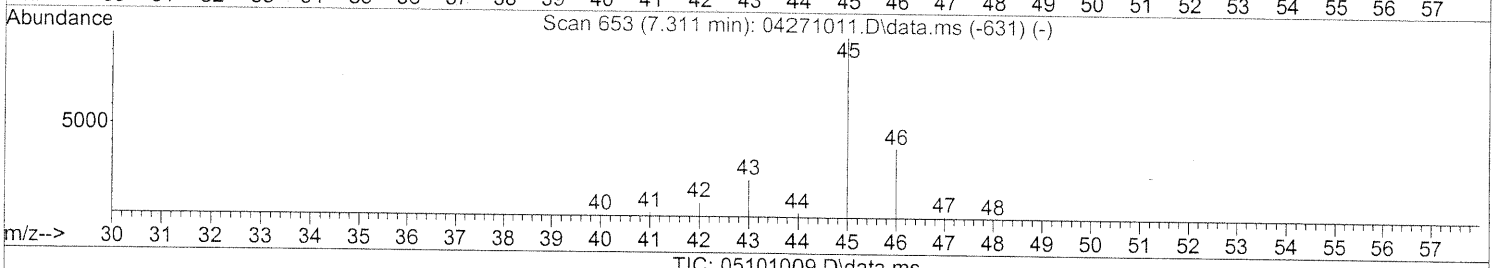
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101009.D
Acq On : 10 May 2010 18:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 21:26:13 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101009.D\data.ms

(10) Ethanol (T)

7.305min (+0.023) 123.23ng

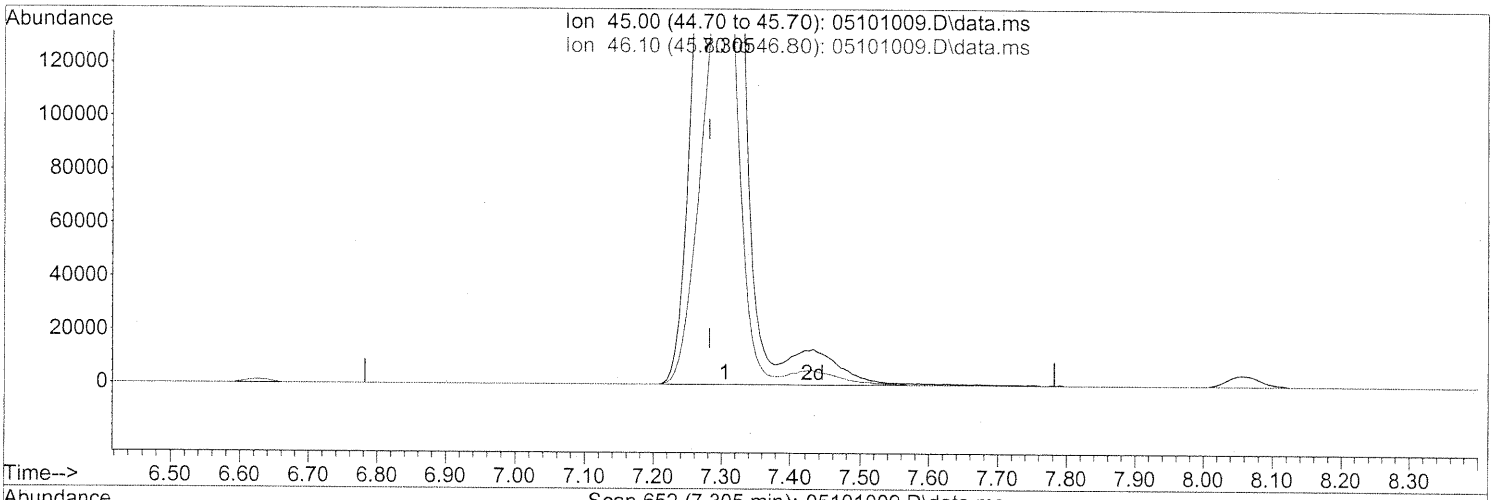
response 1627124

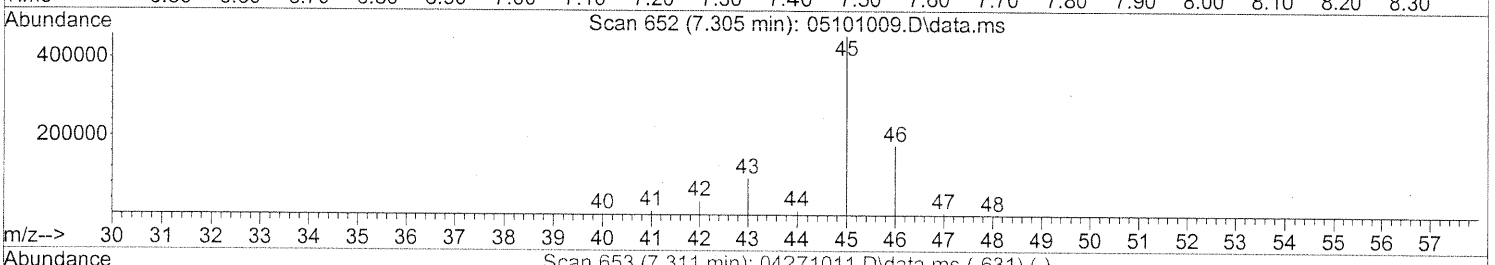
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.58
0.00	0.00	0.00
0.00	0.00	0.00

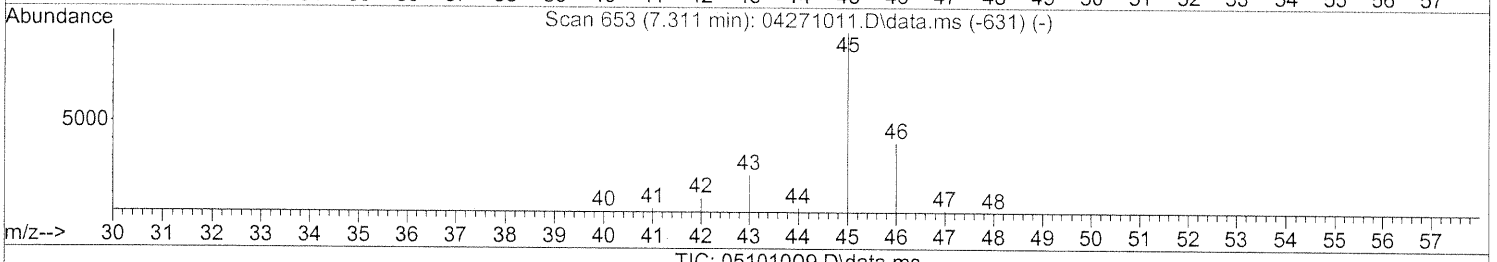
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Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101009.D
Acq On : 10 May 2010 18:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 21:26:13 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101009.D\data.ms

(10) Ethanol (T)

7.305min (+0.023) 128.25ng m

response 1693280

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	37.07
0.00	0.00	0.00
0.00	0.00	0.00

SP-7 IC

IDA 5/11/10

CC
5-11-10

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P100511-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
115-07-1	Propene	26.3	**29.9**	**114**	58-133	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	**22.8**	**88**	63-114	
74-87-3	Chloromethane	25.0	**22.6**	**90**	60-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**22.4**	**86**	63-118	
75-01-4	Vinyl Chloride	25.3	**23.2**	**92**	63-123	
106-99-0	1,3-Butadiene	26.8	**25.7**	**96**	63-141	
74-83-9	Bromomethane	25.8	**23.5**	**91**	67-133	
75-00-3	Chloroethane	25.5	**24.4**	**96**	65-122	
64-17-5	Ethanol	130	**135**	**104**	54-137	
75-05-8	Acetonitrile	26.0	**26.1**	**100**	59-128	
107-02-8	Acrolein	26.3	**22.0**	**84**	61-131	
67-64-1	Acetone	132	**119**	**90**	60-117	
75-69-4	Trichlorofluoromethane	26.3	**22.2**	**84**	62-125	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	**36.8**	**77**	57-125	
107-13-1	Acrylonitrile	25.8	**27.0**	**105**	66-136	
75-35-4	1,1-Dichloroethene	27.5	**25.8**	**94**	71-121	
75-09-2	Methylene Chloride	26.8	**23.4**	**87**	67-109	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	**28.4**	**105**	64-145	
76-13-1	Trichlorotrifluoroethane	27.5	**24.6**	**89**	71-124	
75-15-0	Carbon Disulfide	26.0	**24.9**	**96**	64-119	
156-60-5	trans-1,2-Dichloroethene	25.5	**24.8**	**97**	68-126	
75-34-3	1,1-Dichloroethane	26.5	**24.7**	**93**	67-124	
1634-04-4	Methyl tert-Butyl Ether	26.3	**24.6**	**94**	67-124	
108-05-4	Vinyl Acetate	126	**105**	**83**	50-171	
78-93-3	2-Butanone (MEK)	26.8	**26.0**	**97**	69-136	

Verified By: RG Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P100511-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	27.0	**25.7**	**95**	68-123	
141-78-6	Ethyl Acetate	52.0	**51.6**	**99**	75-131	
110-54-3	n-Hexane	26.0	**24.8**	**95**	63-118	
67-66-3	Chloroform	27.5	**24.1**	**88**	66-124	
109-99-9	Tetrahydrofuran (THF)	26.5	**25.1**	**95**	66-129	
107-06-2	1,2-Dichloroethane	26.3	**23.6**	**90**	64-125	
71-55-6	1,1,1-Trichloroethane	26.0	**24.0**	**92**	71-123	
71-43-2	Benzene	25.8	**23.3**	**90**	63-112	
56-23-5	Carbon Tetrachloride	26.3	**25.2**	**96**	73-129	
110-82-7	Cyclohexane	51.8	**48.7**	**94**	68-118	
78-87-5	1,2-Dichloropropane	26.0	**24.9**	**96**	74-122	
75-27-4	Bromodichloromethane	26.3	**25.3**	**96**	75-125	
79-01-6	Trichloroethene	25.8	**24.2**	**94**	66-120	
123-91-1	1,4-Dioxane	26.0	**23.9**	**92**	75-127	
80-62-6	Methyl Methacrylate	52.8	**52.9**	**100**	80-130	
142-82-5	n-Heptane	25.8	**24.8**	**96**	71-121	
10061-01-5	cis-1,3-Dichloropropene	24.5	**24.8**	**101**	77-130	
108-10-1	4-Methyl-2-pentanone	26.8	**25.9**	**97**	74-134	
10061-02-6	trans-1,3-Dichloropropene	27.0	**28.0**	**104**	78-134	
79-00-5	1,1,2-Trichloroethane	26.0	**24.9**	**96**	76-122	
108-88-3	Toluene	26.8	**24.2**	**90**	66-120	
591-78-6	2-Hexanone	27.0	**23.7**	**88**	72-135	
124-48-1	Dibromochloromethane	28.3	**27.3**	**96**	79-136	
106-93-4	1,2-Dibromoethane	26.3	**25.1**	**95**	76-129	
123-86-4	n-Butyl Acetate	27.5	**23.5**	**85**	68-138	

Verified By: Rc Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1001603
Client Project ID: **17131** CAS Sample ID: P100511-LCS

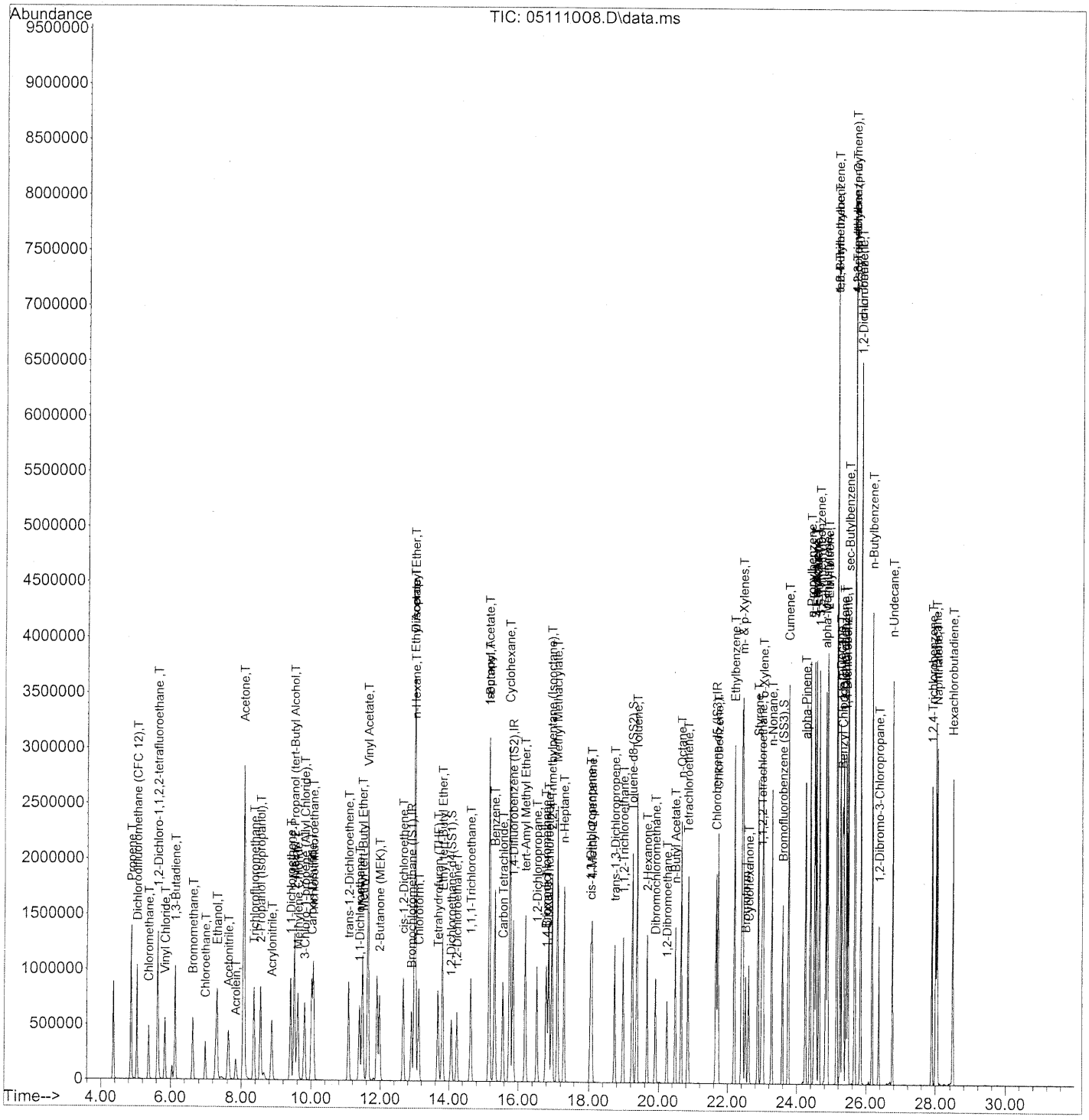
Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/11/10
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	26.3	**25.9**	**98**	71-122	
127-18-4	Tetrachloroethene	25.3	**22.5**	**89**	65-132	
108-90-7	Chlorobenzene	26.5	**23.8**	**90**	66-122	
100-41-4	Ethylbenzene	26.3	**24.5**	**93**	69-122	
179601-23-1	m,p-Xylenes	51.5	**48.2**	**94**	69-122	
75-25-2	Bromoform	26.5	**25.6**	**97**	73-150	
100-42-5	Styrene	26.3	**25.5**	**97**	75-130	
95-47-6	o-Xylene	26.0	**24.3**	**93**	69-122	
111-84-2	n-Nonane	25.8	**25.1**	**97**	68-125	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	**25.4**	**94**	80-126	
98-82-8	Cumene	25.3	**22.9**	**91**	70-123	
80-56-8	alpha-Pinene	24.8	**22.6**	**91**	75-128	
103-65-1	n-Propylbenzene	25.3	**23.5**	**93**	70-125	
622-96-8	4-Ethyltoluene	26.3	**24.2**	**92**	71-129	
108-67-8	1,3,5-Trimethylbenzene	26.5	**24.9**	**94**	71-125	
95-63-6	1,2,4-Trimethylbenzene	25.5	**24.9**	**98**	69-132	
100-44-7	Benzyl Chloride	26.8	**26.2**	**98**	78-144	
541-73-1	1,3-Dichlorobenzene	26.0	**24.5**	**94**	65-132	
106-46-7	1,4-Dichlorobenzene	26.3	**23.9**	**91**	66-126	
95-50-1	1,2-Dichlorobenzene	25.8	**24.4**	**95**	67-134	
5989-27-5	d-Limonene	26.5	**26.3**	**99**	68-149	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	**26.4**	**98**	76-150	
120-82-1	1,2,4-Trichlorobenzene	27.3	**24.7**	**90**	66-145	
91-20-3	Naphthalene	25.0	**22.3**	**89**	71-147	
87-68-3	Hexachlorobutadiene	26.8	**24.4**	**91**	65-140	

Verified By: RC Date: 5/19/10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111008.D
Acq On : 11 May 2010 13:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 11 13:43:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111008.D
Acq On : 11 May 2010 13:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 11 13:43:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.90	130	380457	25.000	ng		0.02
37) 1,4-Difluorobenzene (IS2)	15.85	114	1807789	25.000	ng		0.01
56) Chlorobenzene-d5 (IS3)	21.66	82	760601	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.06	65	558289	24.313	ng		0.02
Spiked Amount 25.000			Recovery =	97.24%			
57) Toluene-d8 (SS2)	19.24	98	1897642	24.737	ng		0.00
Spiked Amount 25.000			Recovery =	98.96%			
73) Bromofluorobenzene (SS3)	23.59	174	658330	24.499	ng		0.00
Spiked Amount 25.000			Recovery =	98.00%			
Target Compounds							Qvalue
2) Propene	4.87	42	643440	29.853	ng		99
3) Dichlorodifluoromethan...	5.04	85	1155041	22.788	ng		99
4) Chloromethane	5.37	50	693053	22.556	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	659659	22.402	ng		100
6) Vinyl Chloride	5.84	62	797046	23.159	ng		99
7) 1,3-Butadiene	6.13	54	643829	25.669	ng		92
8) Bromomethane	6.63	94	539266	23.466	ng		99
9) Chloroethane	6.99	64	427706	24.359	ng		99
10) Ethanol	7.31	45	1774532m	135.167	ng		
11) Acetonitrile	7.63	41	830327	26.102	ng		99
12) Acrolein	7.84	56	285462	22.048	ng		99
13) Acetone	8.07	58	2002836	119.385	ng	#	84
14) Trichlorofluoromethane	8.36	101	1024601	22.212	ng		99
15) 2-Propanol (Isopropanol)	8.55	45	1796662	36.758	ng		96
16) Acrylonitrile	8.87	53	689883	26.984	ng		99
17) 1,1-Dichloroethene	9.40	96	597295	25.804	ng	#	72
18) 2-Methyl-2-Propanol (t...	9.51	59	2516044	43.615	ng		95
19) Methylene Chloride	9.61	84	590460	23.401	ng	#	73
20) 3-Chloro-1-propene (Al...	9.81	41	724833	28.440	ng		80
21) Trichlorotrifluoroethane	10.06	151	569456	24.629	ng	#	76
22) Carbon Disulfide	10.01	76	2030534	24.911	ng		98
23) trans-1,2-Dichloroethene	11.09	61	755864	24.775	ng		77
24) 1,1-Dichloroethane	11.40	63	982409	24.733	ng		100
25) Methyl tert-Butyl Ether	11.48	73	1746045	24.579	ng		94
26) Vinyl Acetate	11.64	86	611539	104.749	ng	#	23
27) 2-Butanone (MEK)	11.98	72	400355	25.983	ng	#	65
28) cis-1,2-Dichloroethene	12.66	61	760008	25.673	ng		76
29) Diisopropyl Ether	13.00	87	524545	24.857	ng	#	34
30) Ethyl Acetate	13.00	61	422059	51.573	ng		89
31) n-Hexane	13.02	57	968680	24.835	ng	#	98

5/11/10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111008.D
Acq On : 11 May 2010 13:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 11 13:43:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.12	83	999733	24.116	ng		99
34) Tetrahydrofuran (THF)	13.67	72	375497	25.086	ng	#	76
35) Ethyl tert-Butyl Ether	13.81	87	742330	23.914	ng	#	76
36) 1,2-Dichloroethane	14.23	62	732926	23.558	ng		99
38) 1,1,1-Trichloroethane	14.63	97	910622	23.987	ng		95
39) Isopropyl Acetate	15.17	61	730988	52.653	ng	#	83
40) 1-Butanol	15.18	56	1003327	46.020	ng		87
41) Benzene	15.33	78	2394090	23.263	ng		99
42) Carbon Tetrachloride	15.56	117	798344	25.247	ng		99
43) Cyclohexane	15.75	84	1864234	48.652	ng	#	81
44) tert-Amyl Methyl Ether	16.20	73	1699618	24.507	ng		91
45) 1,2-Dichloropropane	16.53	63	558510	24.929	ng		99
46) Bromodichloromethane	16.79	83	781411	25.289	ng		98
47) Trichloroethene	16.87	130	694229	24.172	ng		99
48) 1,4-Dioxane	16.81	88	478628	23.856	ng		83
49) 2,2,4-Trimethylpentane...	16.95	57	2323520	24.578	ng		94
50) Methyl Methacrylate	17.11	100	576400	52.859	ng	#	63
51) n-Heptane	17.30	71	606830	24.785	ng		89
52) cis-1,3-Dichloropropene	18.04	75	909140	24.817	ng		99
53) 4-Methyl-2-pentanone	18.08	58	505074	25.917	ng	#	84
54) trans-1,3-Dichloropropene	18.74	75	928702	27.998	ng		100
55) 1,1,2-Trichloroethane	18.98	97	590749	24.923	ng		93
58) Toluene	19.38	91	2613803	24.159	ng		98
59) 2-Hexanone	19.67	43	1083786	23.659	ng		90
60) Dibromochloromethane	19.91	129	705338	27.273	ng		100
61) 1,2-Dibromoethane	20.24	107	689648	25.127	ng		100
62) n-Butyl Acetate	20.48	43	1227685	23.483	ng		92
63) n-Octane	20.66	57	502463	25.881	ng	#	80
64) Tetrachloroethene	20.85	166	760494	22.495	ng		100
65) Chlorobenzene	21.72	112	1712650	23.823	ng		99
66) Ethylbenzene	22.19	91	2901470	24.469	ng		95
67) m- & p-Xylenes	22.43	91	4515685	48.195	ng		92
68) Bromoform	22.51	173	622652	25.633	ng		100
69) Styrene	22.87	104	1876582	25.456	ng		94
70) o-Xylene	23.02	91	2325904	24.349	ng		93
71) n-Nonane	23.28	43	1044952	25.076	ng		85
72) 1,1,2,2-Tetrachloroethane	22.99	83	1020078	25.357	ng		99
74) Cumene	23.76	105	2994114	22.937	ng		95
75) alpha-Pinene	24.25	93	1370677	22.630	ng		93
76) n-Propylbenzene	24.38	91	3551491	23.454	ng		93
77) 3-Ethyltoluene	24.51	105	2968456	24.831	ng		95
78) 4-Ethyltoluene	24.56	105	2919015	24.233	ng		95
79) 1,3,5-Trimethylbenzene	24.64	105	2452010	24.945	ng		92

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111008.D
Acq On : 11 May 2010 13:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

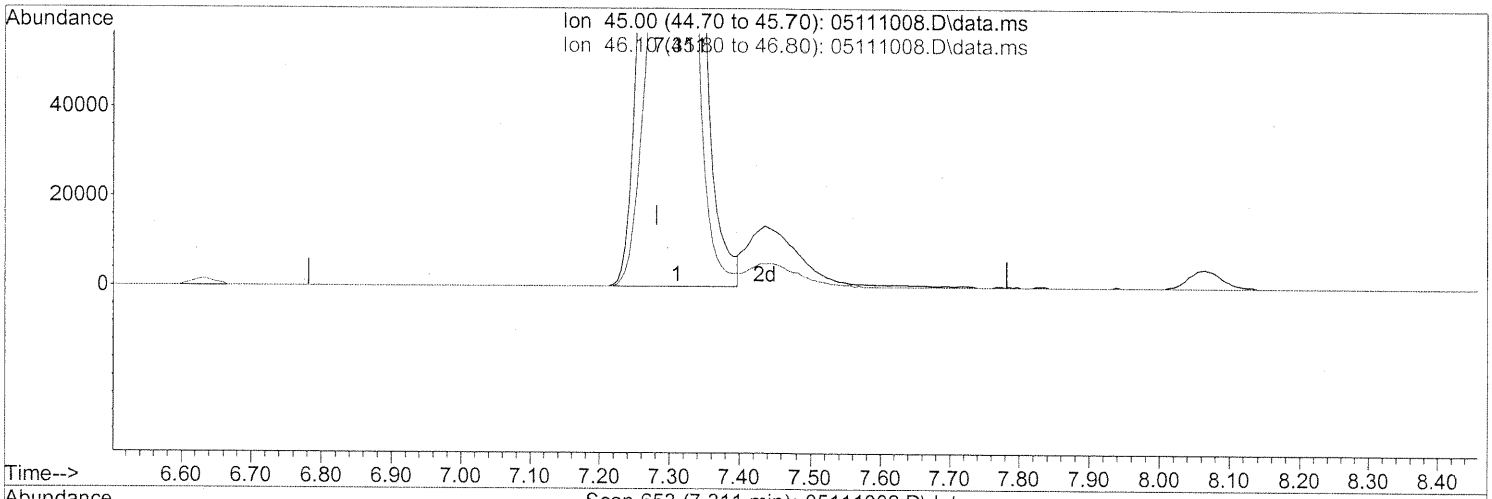
Quant Time: May 11 13:43:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

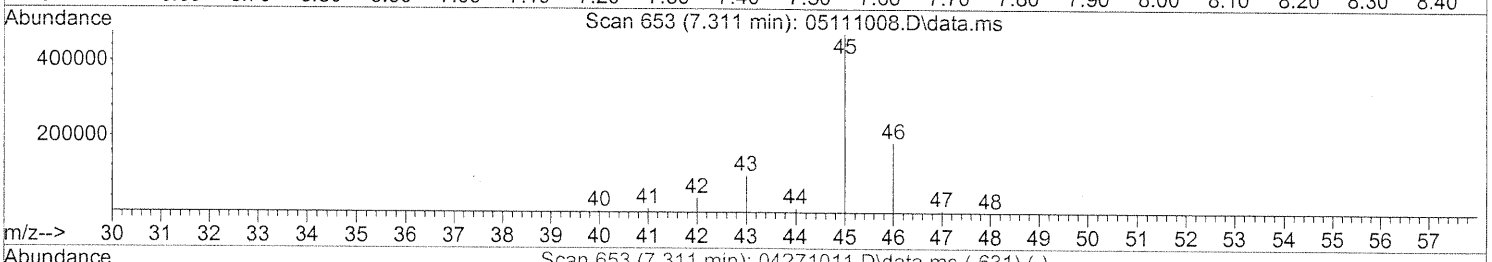
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	1331508	24.446	ng		96
81) 2-Ethyltoluene	24.88	105	2937389	23.680	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	2530453	24.896	ng		92
83) n-Decane	25.25	57	1169719	25.252	ng		89
84) Benzyl Chloride	25.31	91	2001920	26.248	ng		90
85) 1,3-Dichlorobenzene	25.35	146	1519948	24.523	ng		99
86) 1,4-Dichlorobenzene	25.42	146	1533741	23.865	ng		99
87) sec-Butylbenzene	25.48	105	3301273	23.928	ng		94
88) 4-Isopropyltoluene (p-...	25.67	119	3141015	23.929	ng		94
89) 1,2,3-Trimethylbenzene	25.67	105	2548454	24.879	ng		91
90) 1,2-Dichlorobenzene	25.84	146	1438099	24.364	ng		100
91) d-Limonene	25.84	68	929976	26.348	ng		84
92) 1,2-Dibromo-3-Chloropr...	26.36	157	501167	26.395	ng	#	60
93) n-Undecane	26.76	57	1189066	25.924	ng		89
94) 1,2,4-Trichlorobenzene	27.90	180	1029436	24.658	ng		100
95) Naphthalene	28.05	128	2875021	22.273	ng		100
96) n-Dodecane	28.01	57	1060794	22.305	ng		89
97) Hexachlorobutadiene	28.48	225	657595	24.423	ng		99
98) Cyclohexanone	22.60	55	560363	18.055	ng	#	87
99) tert-Butylbenzene	25.15	119	2536714	24.132	ng		95
100) n-Butylbenzene	26.17	91	2603565	24.870	ng	#	95

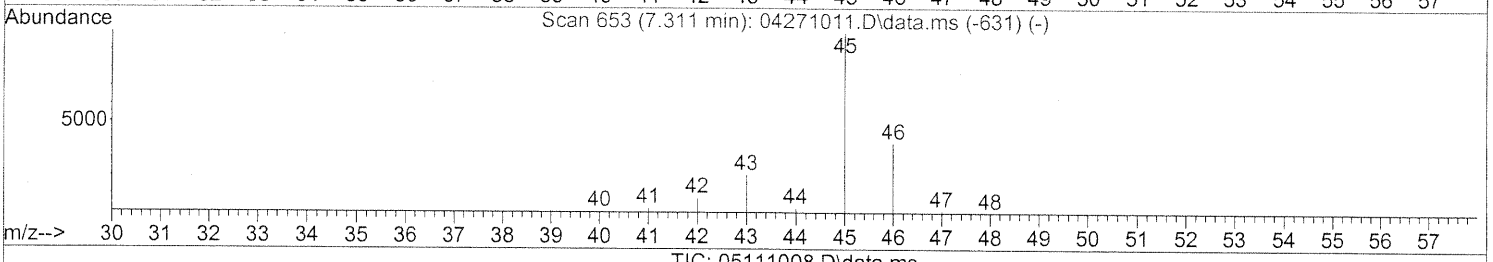
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111008.D
Acq On : 11 May 2010 13:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 11 13:43:33 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05111008.D\data.ms

(10) Ethanol (T)

7.311min (+0.029) 129.90ng

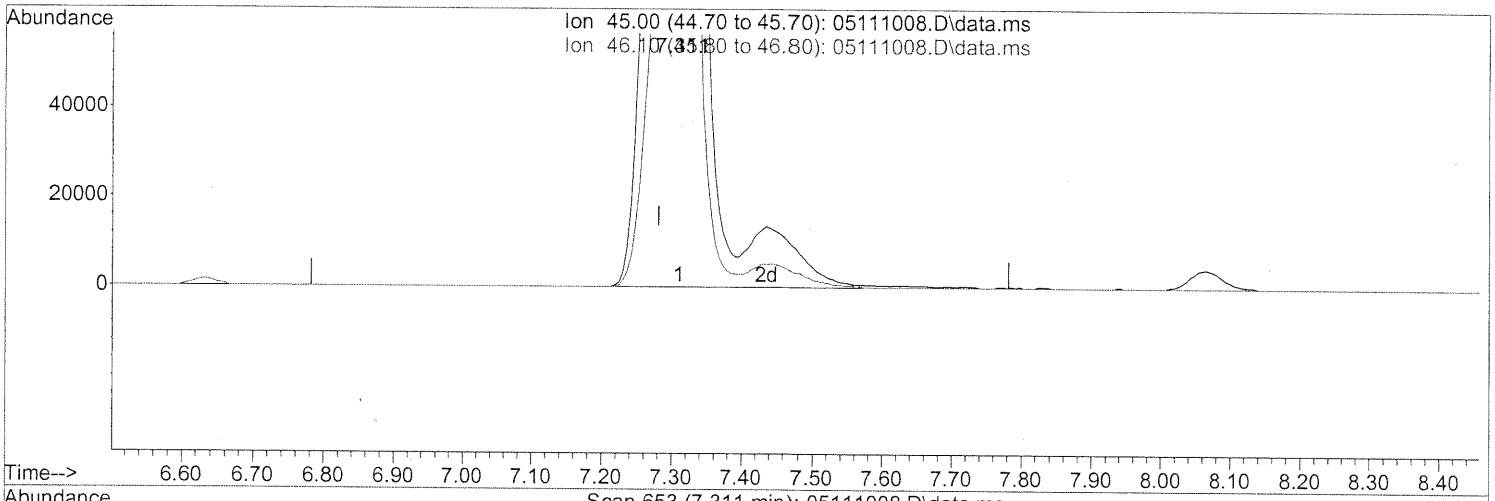
response 1705404

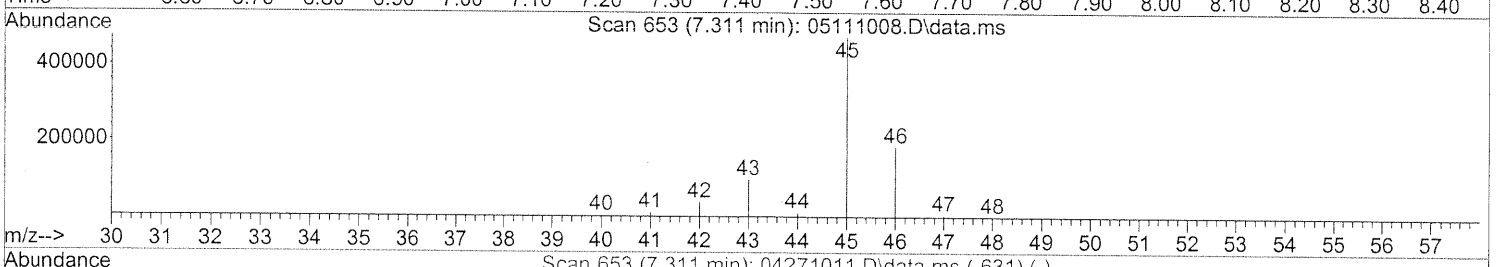
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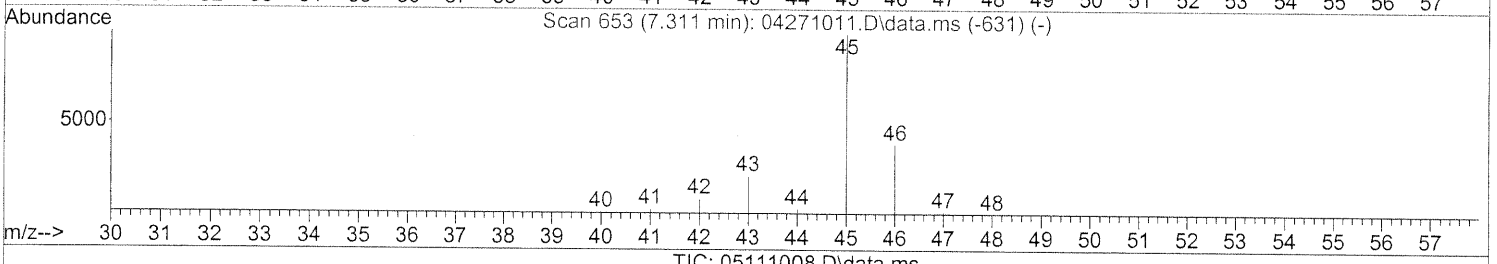
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.73
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111008.D
Acq On : 11 May 2010 13:01
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 11 13:43:33 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05111008.D\data.ms

(10) Ethanol (T)

7.311min (+0.029) 135.17ng m

response 1774532

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	37.22
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

IC1 5/11/10

5/11/10

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110256**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01617

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.69

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Propene	15.0	8.73	15.4	8.97	15.2	**3**	25	
Dichlorodifluoromethane (CFC 12)	1.98	0.400	2.03	0.412	2.005	**2**	25	
Chloromethane	0.539	0.261	0.473	0.229	0.506	**13**	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	2,090	1,110	2,070	1,100	2080	**1**	25	**D**
Acetonitrile	0.894	0.533	0.884	0.527	0.889	**1**	25	
Acrolein	5.51	2.40	5.67	2.47	5.59	**3**	25	
Acetone	165	69.4	169	71.0	167	**2**	25	
Trichlorofluoromethane	1.07	0.191	1.11	0.197	1.09	**4**	25	
2-Propanol (Isopropyl Alcohol)	62.5	25.5	65.1	26.5	63.8	**4**	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	0.475	0.0620	0.507	0.0662	0.491	**7**	25	
Carbon Disulfide	ND	ND	ND	ND	-	-	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	12.2	3.48	12.8	3.64	12.5	**5**	25	
2-Butanone (MEK)	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: Rv Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110256**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01617

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.69

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	9.73	2.70	10.1	2.80	9.915	4	25	
n-Hexane	1.58	0.447	1.62	0.459	1.6	3	25	
Chloroform	9.17	1.88	9.48	1.94	9.325	3	25	
Tetrahydrofuran (THF)	0.928	0.315	0.965	0.327	0.9465	4	25	
1,2-Dichloroethane	1.88	0.465	1.95	0.482	1.915	4	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	0.853	0.267	0.875	0.274	0.864	3	25	
Carbon Tetrachloride	0.612	0.0973	0.642	0.102	0.627	5	25	
Cyclohexane	2.15	0.625	2.26	0.657	2.205	5	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	4.60	0.686	4.76	0.710	4.68	3	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	1.34	0.326	1.39	0.340	1.365	4	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	1.25	0.305	1.32	0.322	1.285	5	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	7.26	1.93	7.52	2.00	7.39	4	25	
2-Hexanone	2.33	0.570	2.42	0.590	2.375	4	25	
Dibromochloromethane	2.39	0.281	2.47	0.290	2.43	3	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	4.84	1.02	4.98	1.05	4.91	3	25	

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

Verified By: RC Date: 5/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Environmental Health & Engineering, Inc.**
Client Sample ID: **110256**
Client Project ID: **17131**

CAS Project ID: P1001603
CAS Sample ID: P1001603-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01617

Date Collected: 5/6/10
Date Received: 5/7/10
Date Analyzed: 5/10 - 5/11/10
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.69

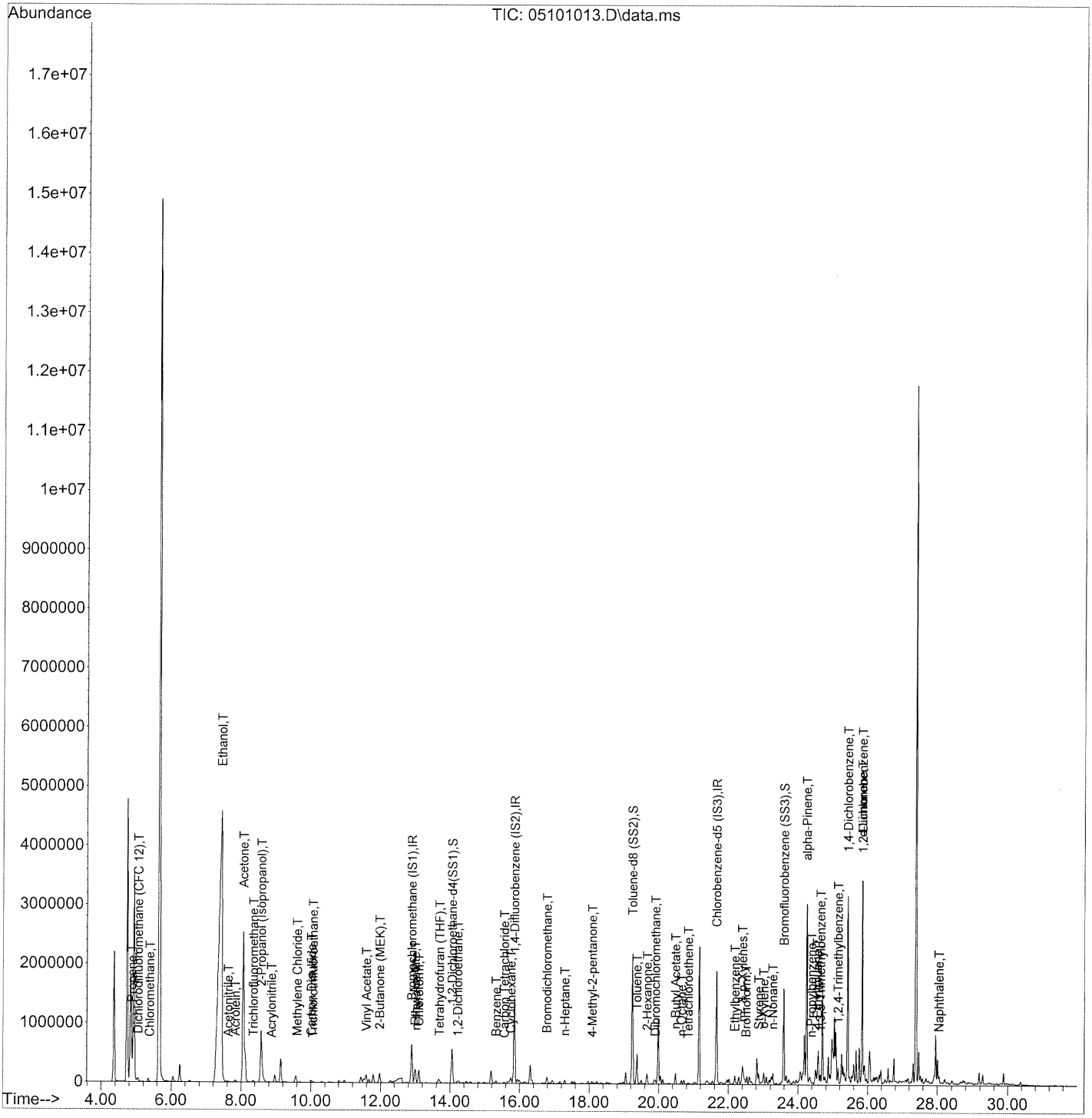
Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
n-Octane	0.962	0.206	0.987	0.211	0.9745	**3**	25	
Tetrachloroethene	0.439	0.0648	0.465	0.0686	0.452	**6**	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	1.85	0.427	1.91	0.441	1.88	**3**	25	
m,p-Xylenes	4.98	1.15	5.15	1.19	5.065	**3**	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	2.52	0.592	2.61	0.612	2.565	**4**	25	
o-Xylene	1.94	0.446	1.97	0.453	1.955	**2**	25	
n-Nonane	2.74	0.522	2.75	0.524	2.745	**0.4**	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	41.0	7.36	42.5	7.63	41.75	**4**	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	1.71	0.347	1.76	0.358	1.735	**3**	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	40.2	6.70	41.8	6.96	41	**4**	25	
1,2-Dichlorobenzene	0.186	0.0309	0.188	0.0312	0.187	**1**	25	
d-Limonene	40.5	7.27	41.7	7.48	41.1	**3**	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	1.09	0.207	1.10	0.209	1.095	**0.9**	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

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

Verified By: Re Date: 5/19/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 07:19:22 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 07:19:22 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	377357	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.85	114	1774551	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	752672	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	559160	24.551	ng		0.00
Spiked Amount 25.000			Recovery =	98.20%			✓
57) Toluene-d8 (SS2)	19.24	98	1866911	24.592	ng		0.00
Spiked Amount 25.000			Recovery =	98.36%			✓
73) Bromofluorobenzene (SS3)	23.59	174	645224	24.265	ng		0.00 ✓
Spiked Amount 25.000			Recovery =	97.04%			
Target Compounds							Qvalue
2) Propene	4.87	42	195170m	9.129	ng		
3) Dichlorodifluoromethan...	5.05	85	60546	1.204	ng		100
4) Chloromethane	5.38	50	8522	0.280	ng		97
10) Ethanol	7.44	45	17596600m	1351.349	ng	see dil	
11) Acetonitrile	7.63	41	16496	0.523	ng		100
12) Acrolein	7.84	56	43063	3.353	ng		99
13) Acetone	8.06	58	1660660	99.802	ng	#	84
14) Trichlorofluoromethane	8.35	101	29920	0.654	ng		100
15) 2-Propanol (Isopropanol)	8.58	45	1867368	38.518	ng		99
16) Acrylonitrile	8.86	53	2811	0.111	ng	#	74
19) Methylene Chloride	9.60	84	4748	0.190	ng	#	73
21) Trichlorotrifluoroethane	10.06	151	6869	0.300	ng	#	76
22) Carbon Disulfide	10.01	76	78767	0.974	ng		99
26) Vinyl Acetate	11.59	86	43943m	7.589	ng		
27) 2-Butanone (MEK)	11.97	72	75133	4.916	ng	#	74
30) Ethyl Acetate	12.99	61	48461	5.970	ng		91
31) n-Hexane	13.01	57	36994	0.956	ng	#	97
32) Chloroform	13.10	83	230646	5.609	ng		99
34) Tetrahydrofuran (THF)	13.69	72	8472	0.571	ng	#	11
36) 1,2-Dichloroethane	14.22	62	35652	1.155	ng		100
41) Benzene	15.32	78	52377	0.518	ng		100
42) Carbon Tetrachloride	15.55	117	11798	0.380	ng		100
43) Cyclohexane	15.75	84	50332	1.338	ng	#	79
46) Bromodichloromethane	16.78	83	85397	2.815	ng		99
51) n-Heptane	17.30	71	19804	0.824	ng		88
53) 4-Methyl-2-pentanone	18.08	58	14913	0.780	ng		74
58) Toluene	19.37	91	476377	4.449	ng		99
59) 2-Hexanone	19.67	43	64760	1.429	ng		87
60) Dibromochloromethane	19.91	129	37356	1.460	ng		99
62) n-Butyl Acetate	20.48	43	152509	2.948	ng		93

Quantitation Report (QT Reviewed)

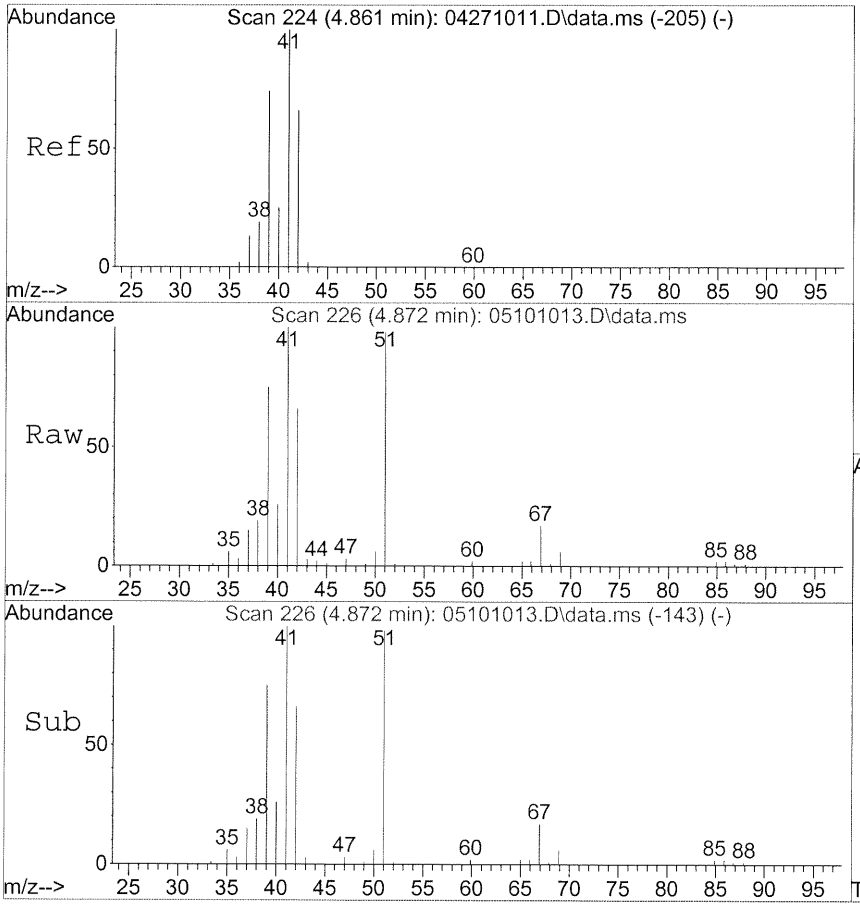
Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 07:19:22 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
63) n-Octane	20.66	57	11211	0.584	ng	#	84
64) Tetrachloroethene	20.84	166	9197	0.275	ng		97
66) Ethylbenzene	22.19	91	132969	1.133	ng		95
67) m- & p-Xylenes	22.40	91	282764	3.050	ng		93
68) Bromoform	22.51	173	5010	0.208	ng		98
69) Styrene	22.87	104	112490	1.542	ng		94
70) o-Xylene	23.01	91	110116	1.165	ng		93
71) n-Nonane	23.27	43	67072	1.627	ng		78
75) alpha-Pinene	24.24	93	1506673	25.138	ng		93
76) n-Propylbenzene	24.38	91	26876	0.179	ng	#	89
78) 4-Ethyltoluene	24.55	105	47621	0.400	ng		91
79) 1,3,5-Trimethylbenzene	24.64	105	27290	0.281	ng		92
82) 1,2,4-Trimethylbenzene	25.15	105	104821	1.042	ng		97
86) 1,4-Dichlorobenzene	25.42	146	1574043	24.750	ng		100
90) 1,2-Dichlorobenzene	25.84	146	6512	0.111	ng		97
91) d-Limonene	25.84	68	861498	24.665	ng		79
95) Naphthalene	28.05	128	82720	0.648	ng		100

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

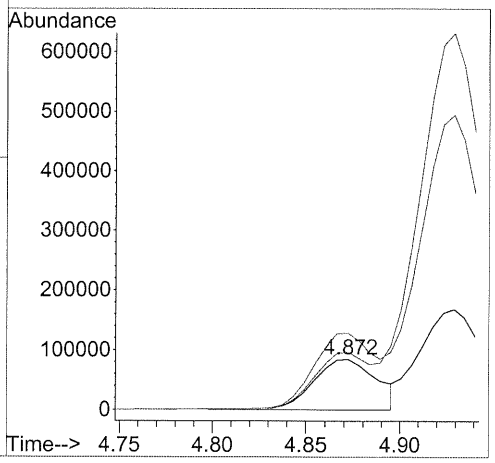
5/16/10

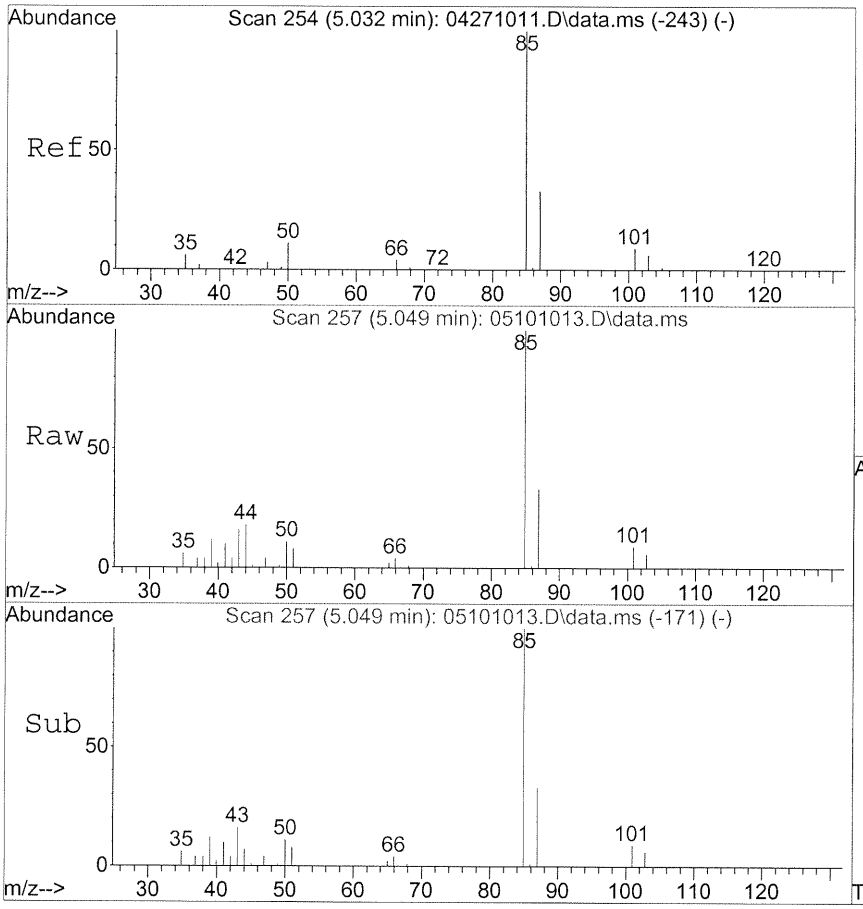


#2
Propene
Concen: 9.13 ng m
RT: 4.87 min Scan# 226
Delta R.T. -0.028 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 42 Resp: 195170

Ion	Ratio	Lower	Upper
42	100		
39	830.9	92.2	132.2#
41	639.9	133.9	173.9#

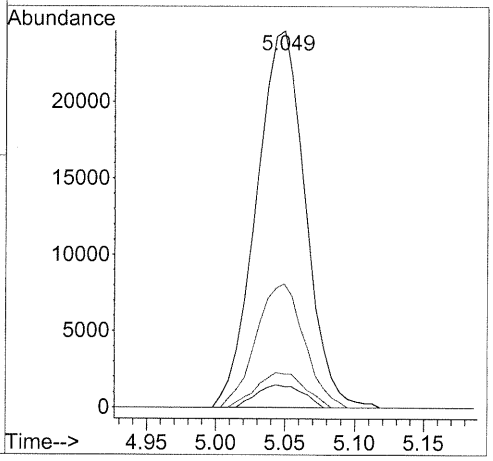


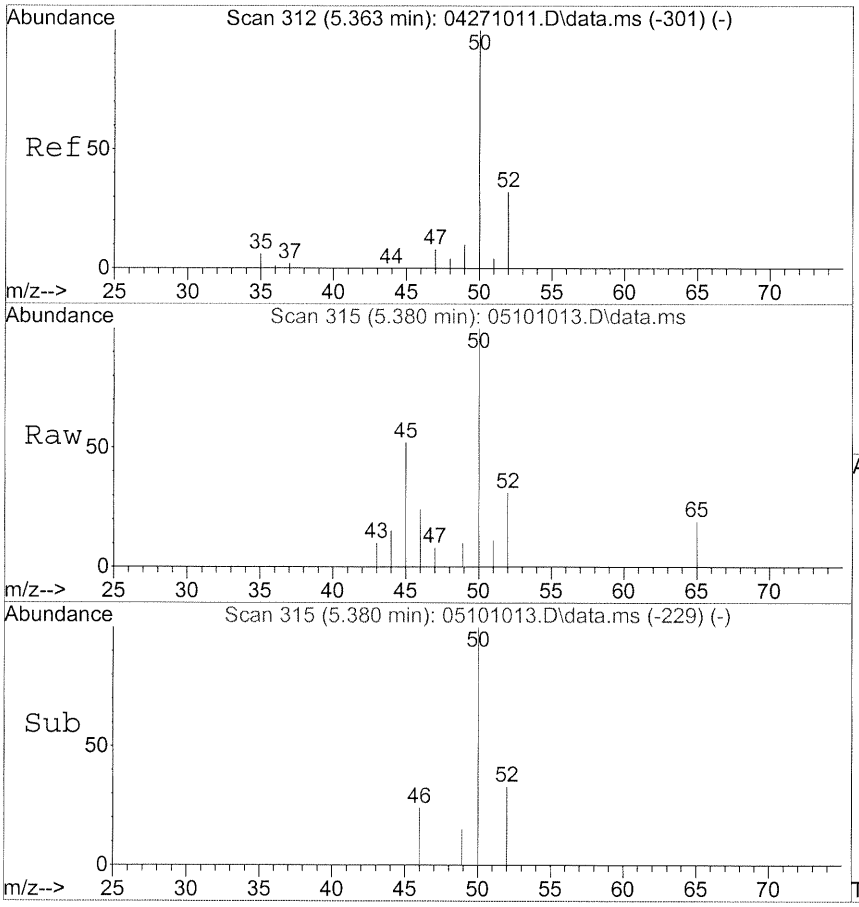


#3
Dichlorodifluoromethane (CFC
Concen: 1.20 ng
RT: 5.05 min Scan# 257
Delta R.T. -0.011 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 85 Resp: 60546

Ion	Ratio	Lower	Upper
85	100		
87	32.1	12.0	52.0
101	9.0	0.0	28.5
103	5.5	0.0	25.4

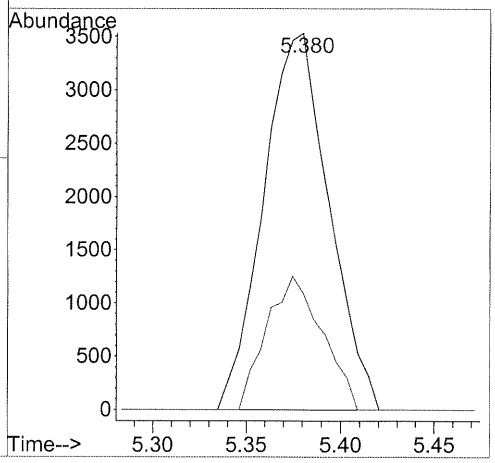


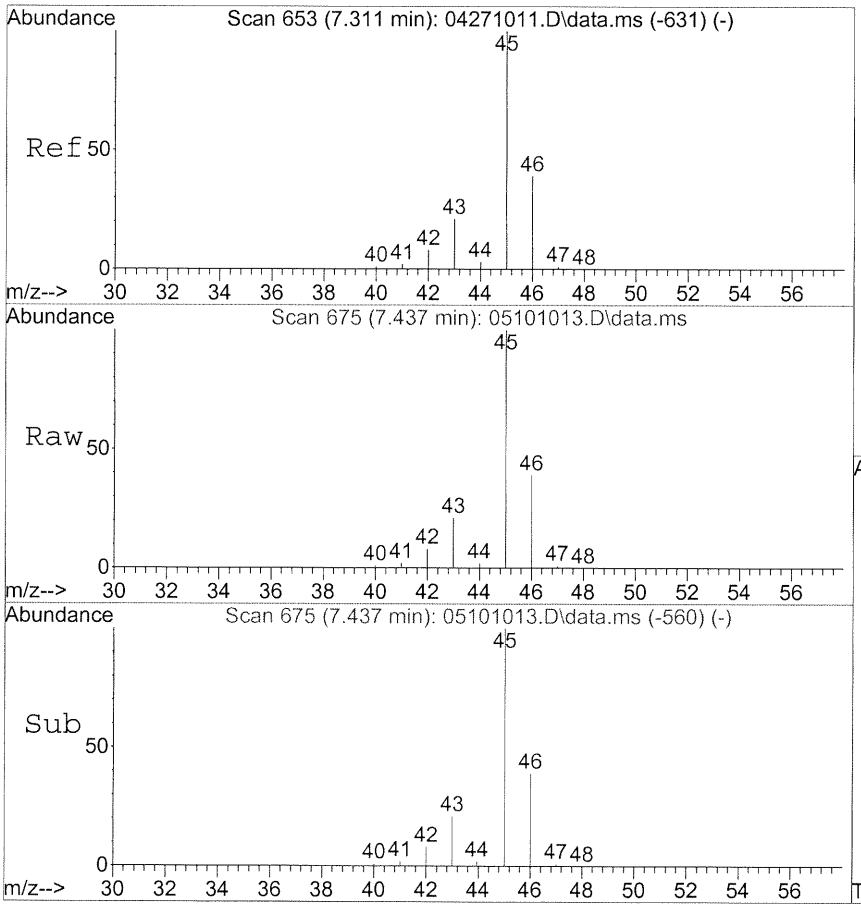


#4
Chloromethane
Concen: 0.28 ng
RT: 5.38 min Scan# 315
Delta R.T. -0.011 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 50 Resp: 8522

Ion	Ratio	Lower	Upper
50	100		
52	30.3	12.1	52.1

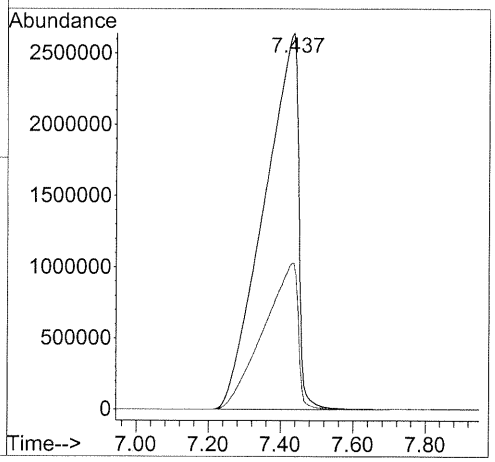


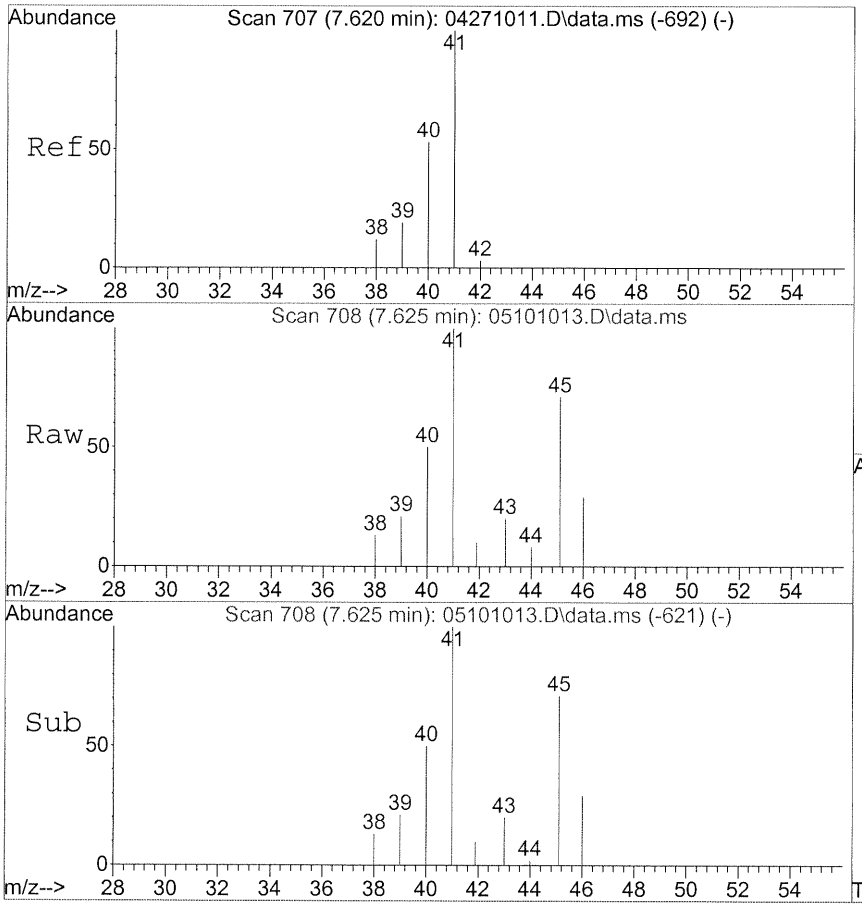


#10
Ethanol
Concen: 1351.35 ng m
RT: 7.44 min Scan# 675
Delta R.T. 0.154 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 45 Resp:17596600

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.4	58.4#

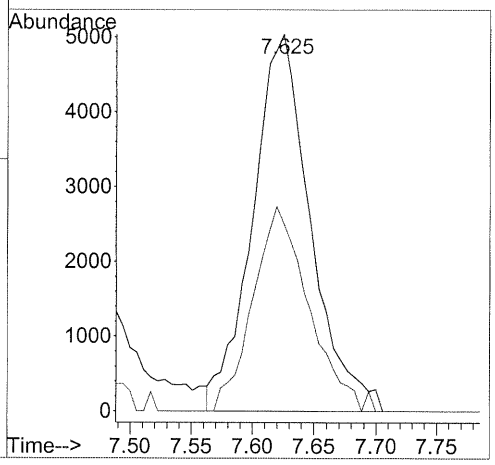


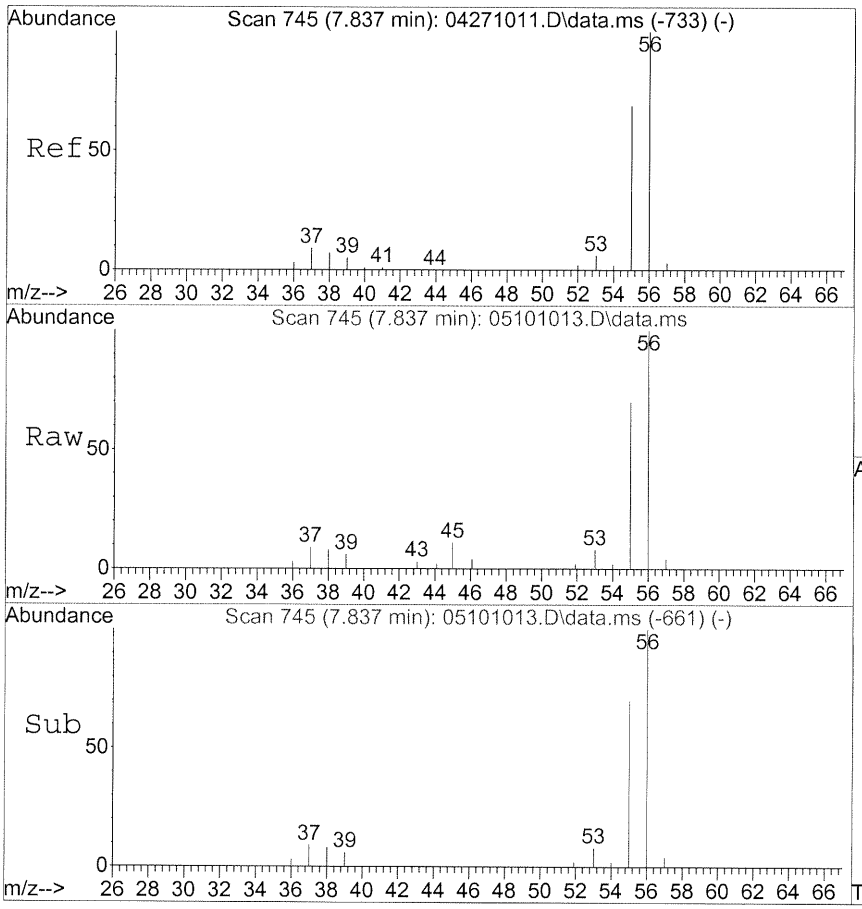


#11
Acetonitrile
Concen: 0.52 ng
RT: 7.63 min Scan# 708
Delta R.T. -0.006 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 41 Resp: 16496

Ion	Ratio	Lower	Upper
41	100		
40	52.6	32.7	72.7

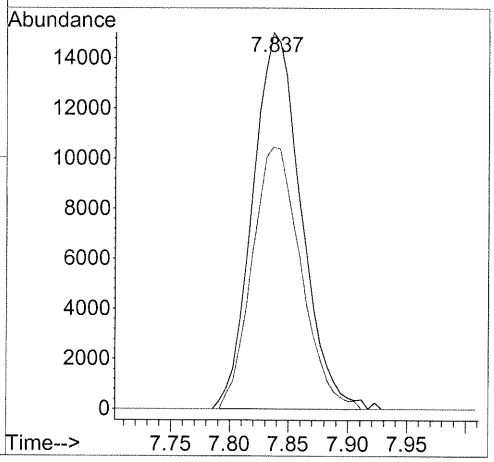


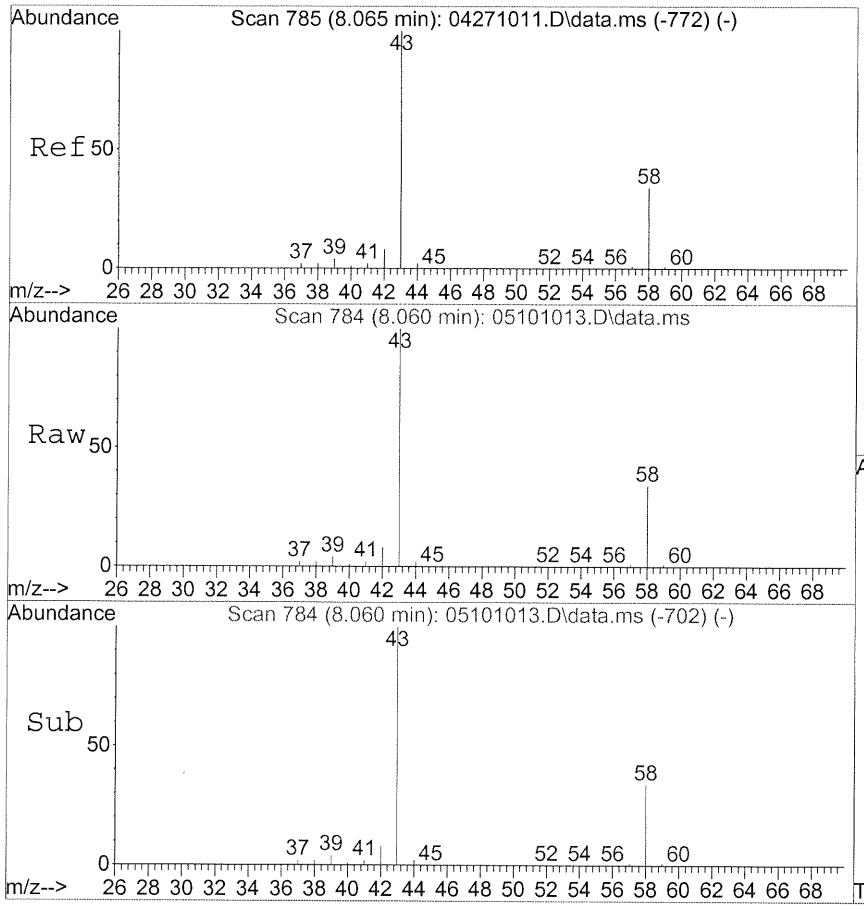


#12
Acrolein
Concen: 3.35 ng
RT: 7.84 min Scan# 745
Delta R.T. -0.022 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 56 Resp: 43063

Ion	Ratio	Lower	Upper
56	100		
55	70.0	50.5	90.5

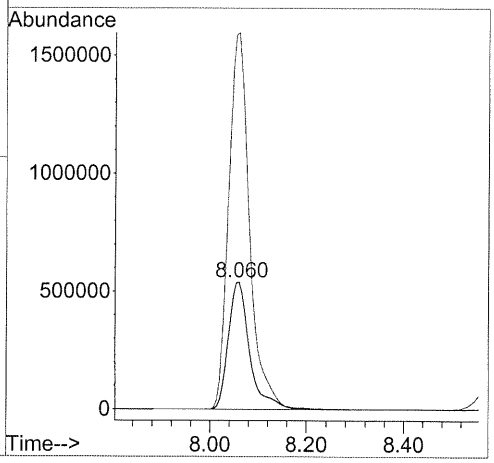


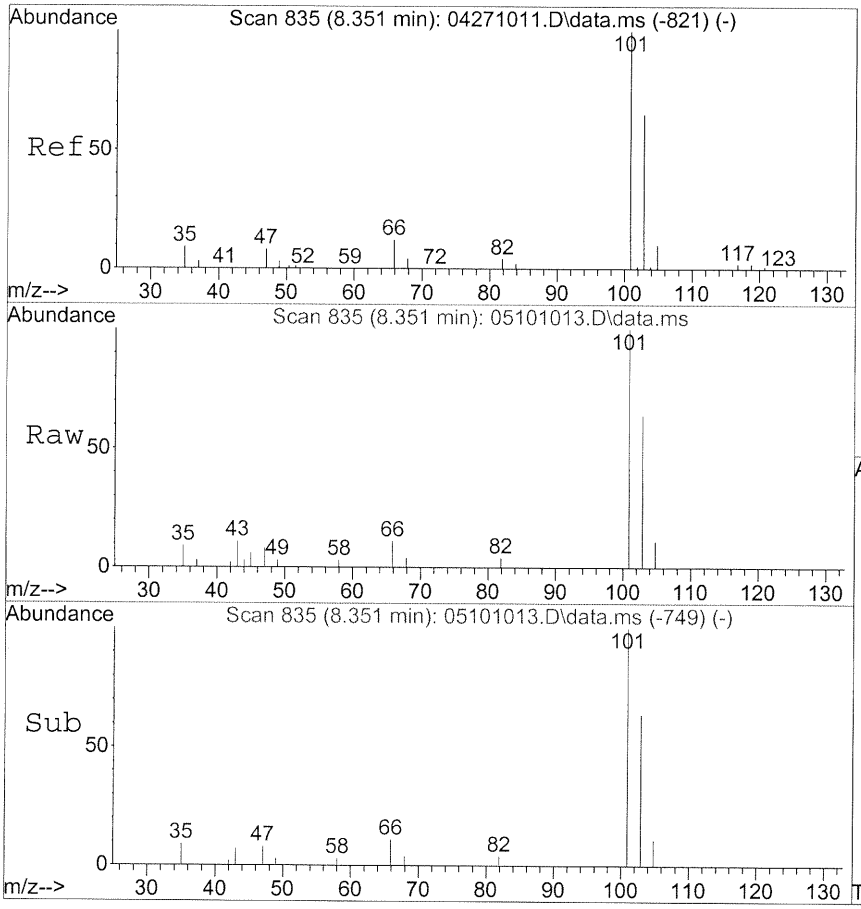


#13
Acetone
Concen: 99.80 ng
RT: 8.06 min Scan# 784
Delta R.T. -0.034 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 58 Resp: 1660660

Ion	Ratio	Lower	Upper
58	100		
43	291.2	295.0	355.0#

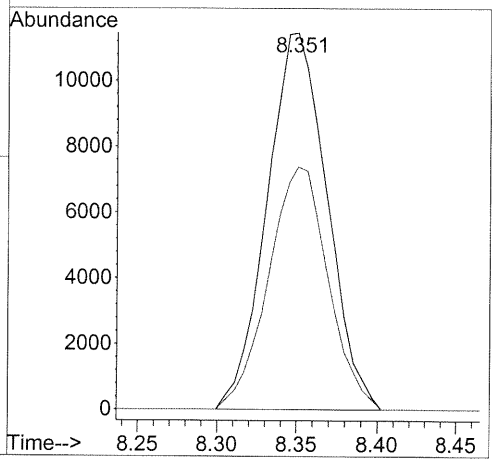


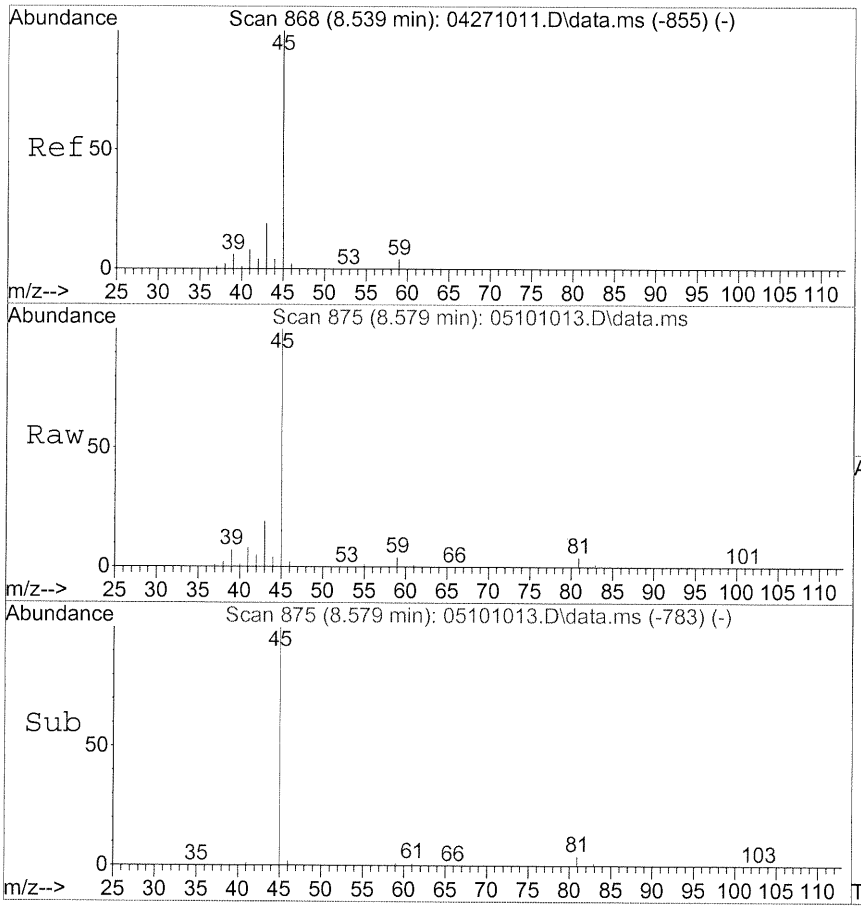


#14
Trichlorofluoromethane
Concen: 0.65 ng
RT: 8.35 min Scan# 835
Delta R.T. -0.011 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:101 Resp: 29920

Ion	Ratio	Lower	Upper
101	100		
103	64.0	43.8	83.8

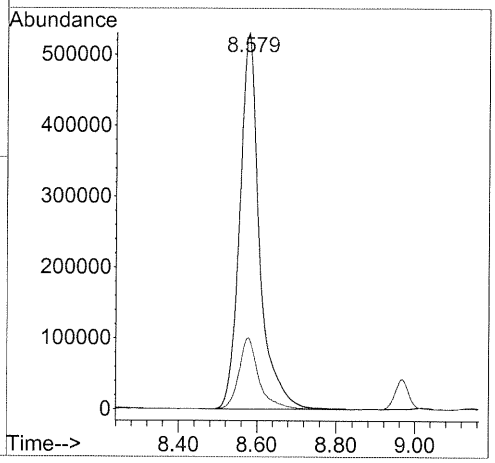


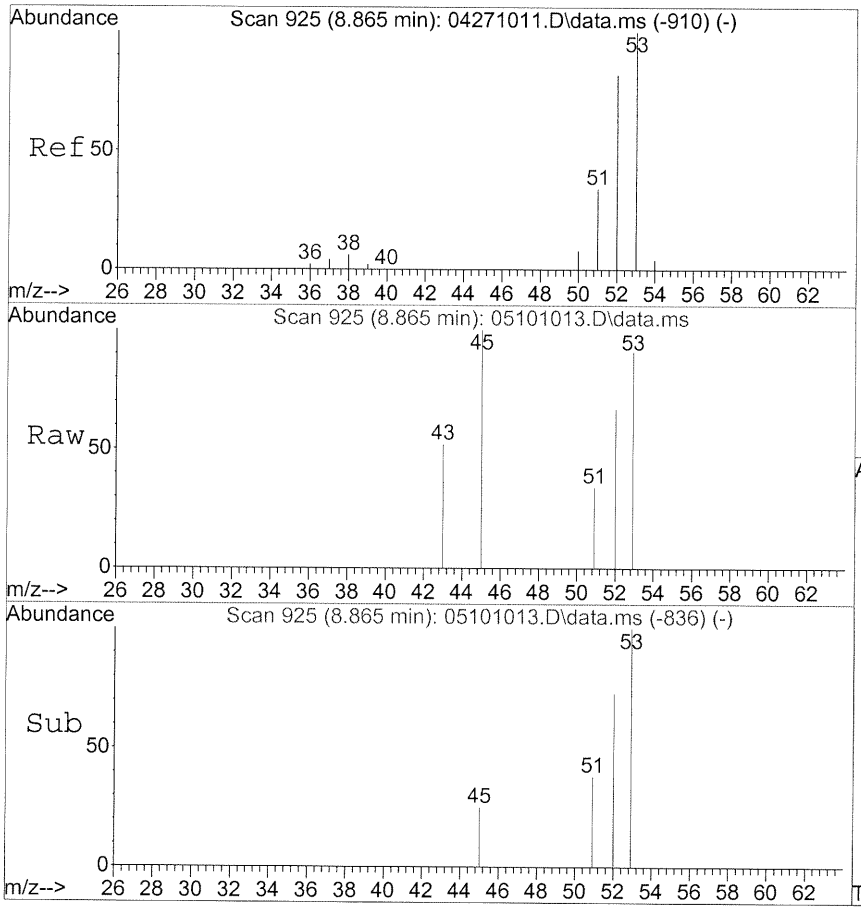


#15
2-Propanol (Isopropanol)
Concen: 38.52 ng
RT: 8.58 min Scan# 875
Delta R.T. 0.023 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 45 Resp: 1867368

Ion	Ratio	Lower	Upper
45	100		
43	18.9	0.0	39.2

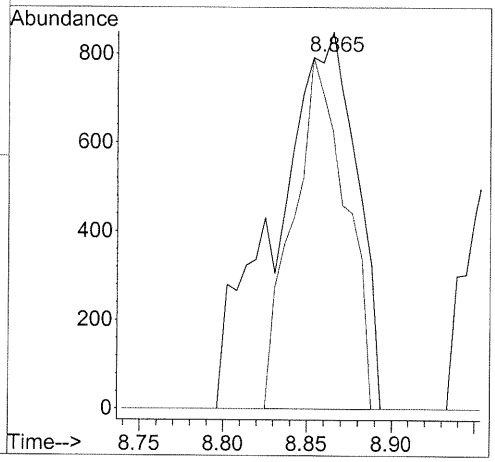


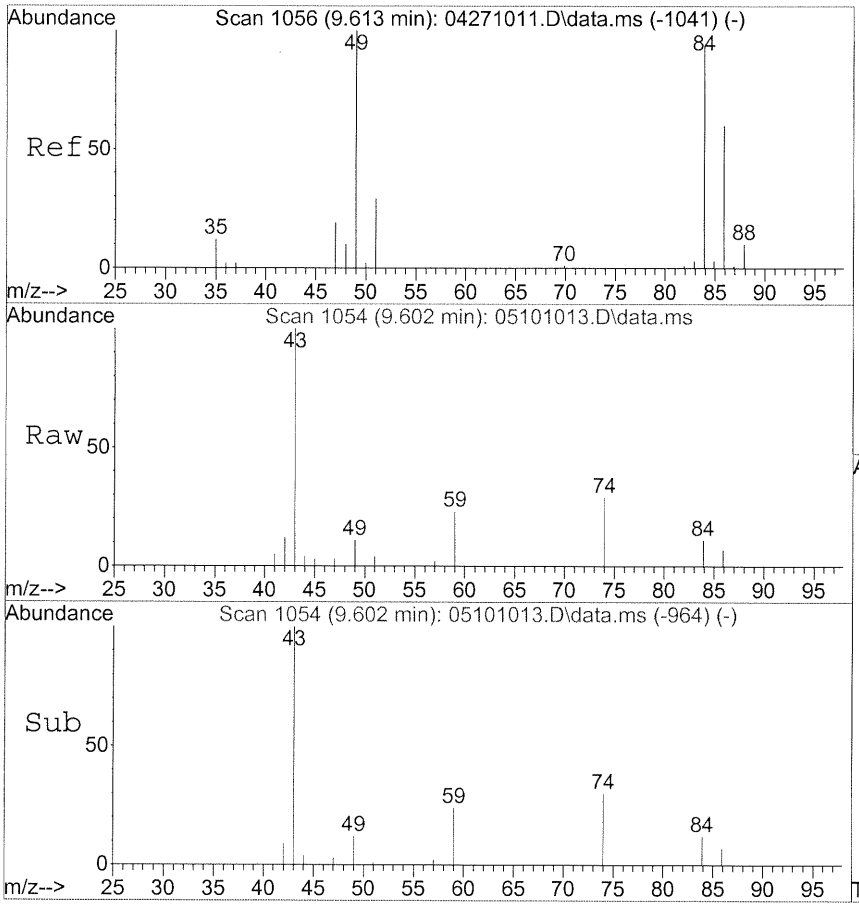


#16
Acrylonitrile
Concen: 0.11 ng
RT: 8.86 min Scan# 925
Delta R.T. 0.006 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 53 Resp: 2811

Ion	Ratio	Lower	Upper
53	100		
52	60.4	64.1	104.1#

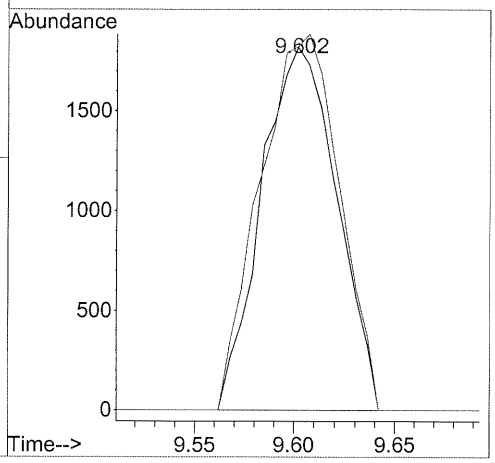


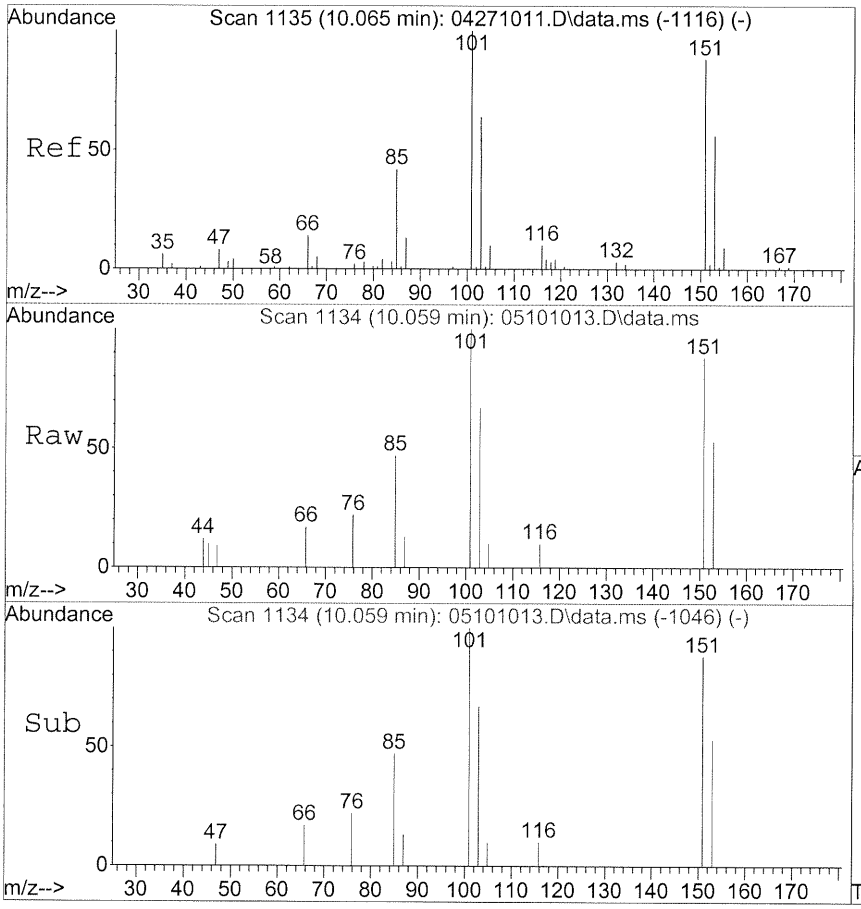


#19
Methylene Chloride
Concen: 0.19 ng
RT: 9.60 min Scan# 1054
Delta R.T. 0.012 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 84 Resp: 4748

Ion	Ratio	Lower	Upper
84	100		
49	108.9	116.6	166.6#

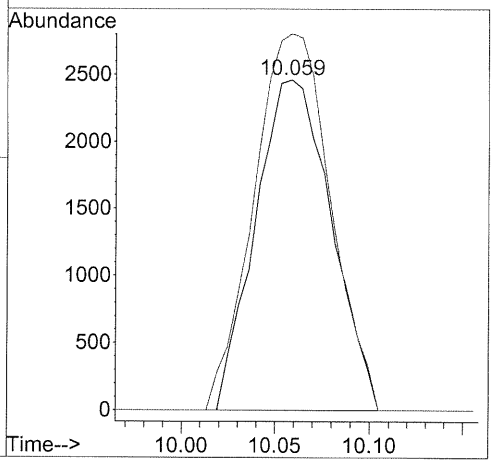


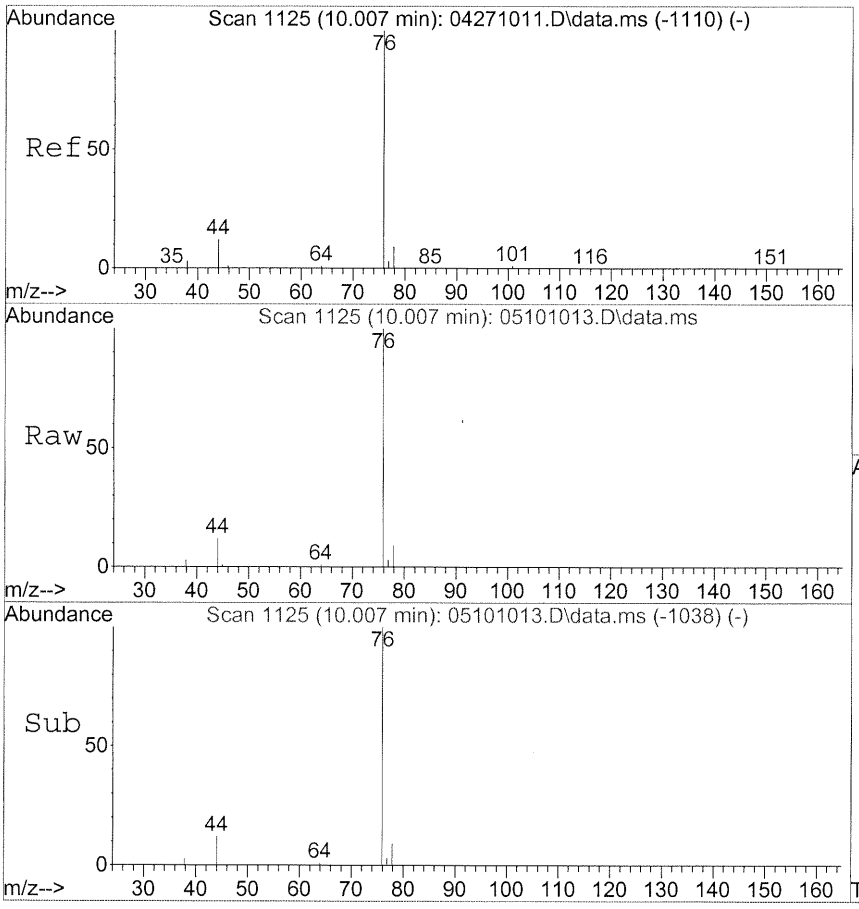


#21
Trichlorotrifluoroethane
Concen: 0.30 ng
RT: 10.06 min Scan# 1134
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:151 Resp: 6869

Ion	Ratio	Lower	Upper
151	100		
101	115.7	125.6	165.6#

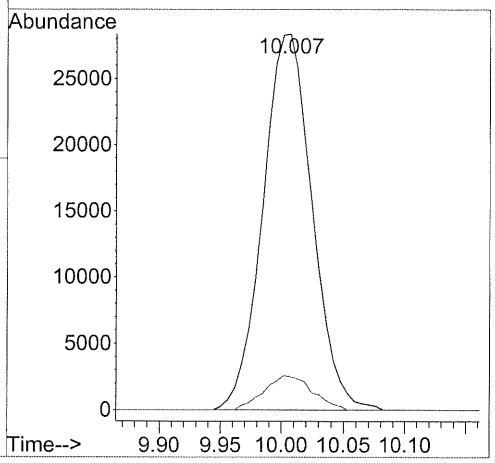


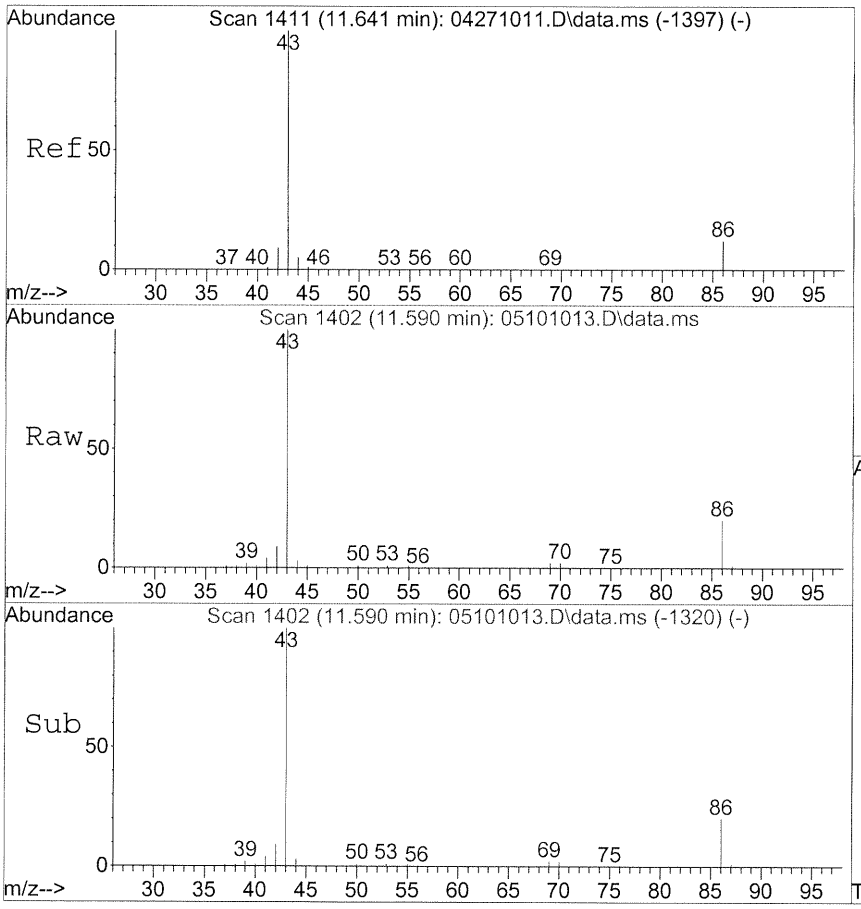


#22
Carbon Disulfide
Concen: 0.97 ng
RT: 10.01 min Scan# 1125
Delta R.T. -0.006 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 76 Resp: 78767

Ion	Ratio	Lower	Upper
76	100		
78	8.8	0.0	29.1

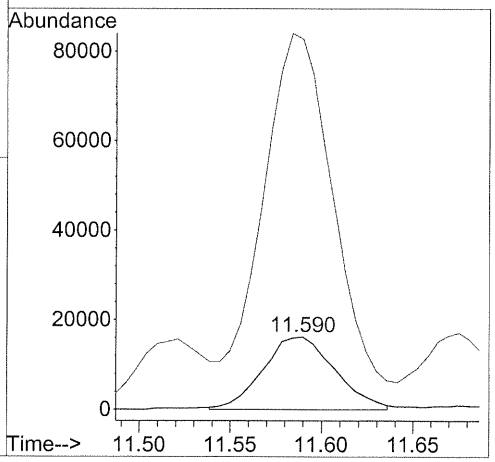


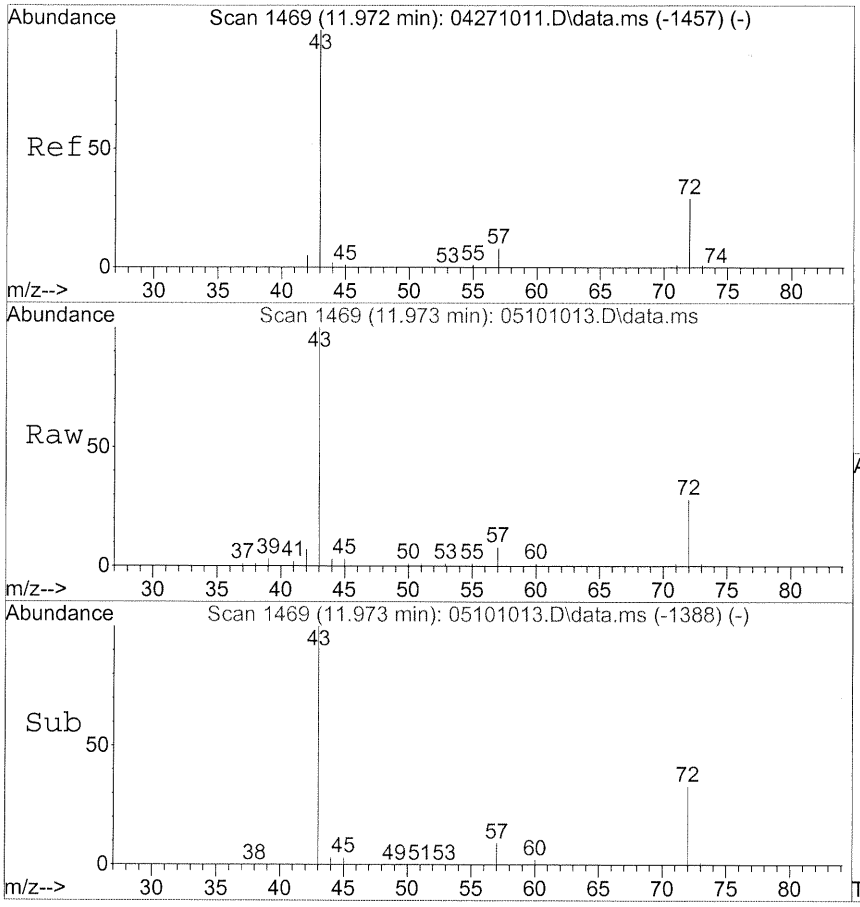


#26
Vinyl Acetate
Concen: 7.59 ng m
RT: 11.59 min Scan# 1402
Delta R.T. -0.034 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 86 Resp: 43943

Ion	Ratio	Lower	Upper
86	100		
43	98.9	1285.5	1325.5#

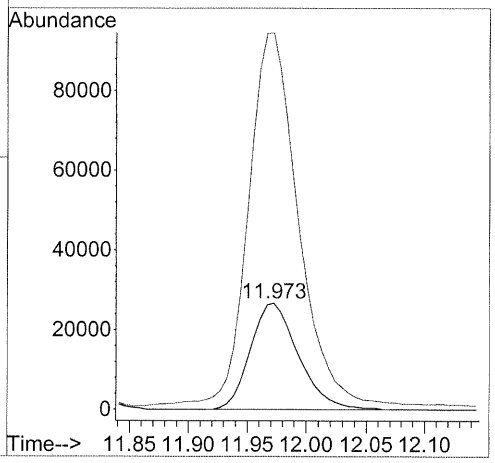


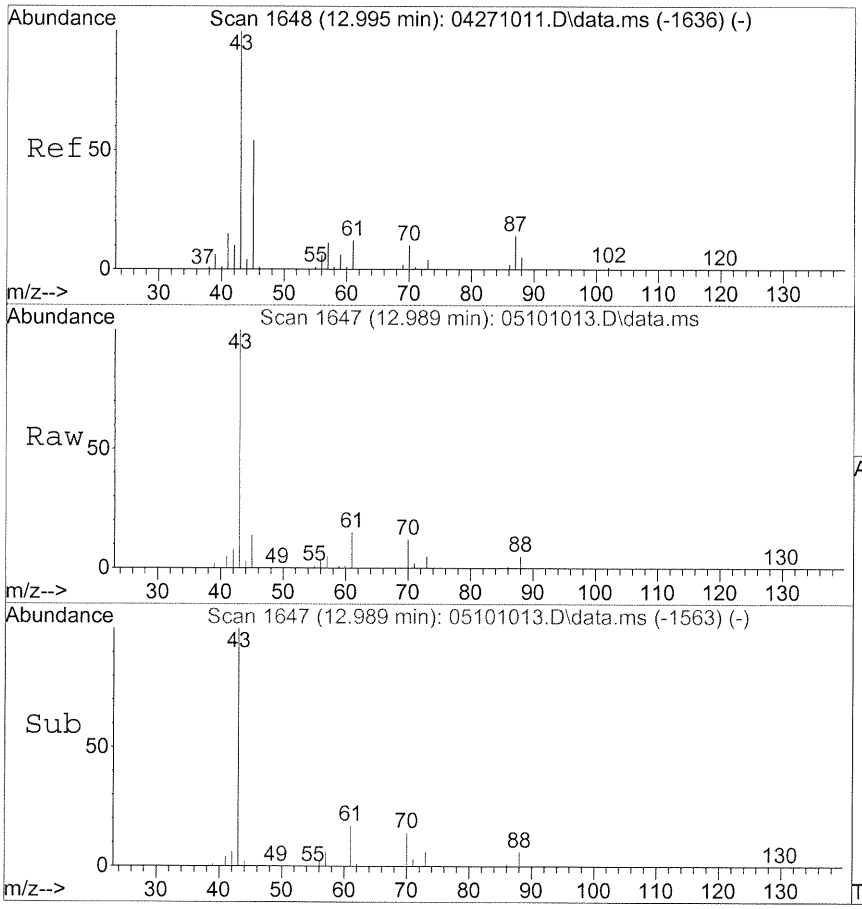


#27
2-Butanone (MEK)
Concen: 4.92 ng
RT: 11.97 min Scan# 1469
Delta R.T. -0.040 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 72 Resp: 75133

Ion	Ratio	Lower	Upper
72	100		
43	367.7	412.3	452.3#

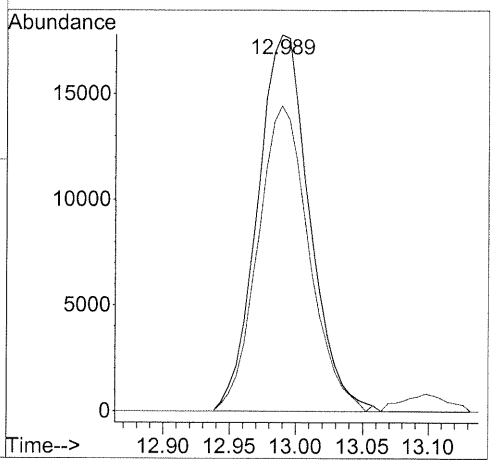


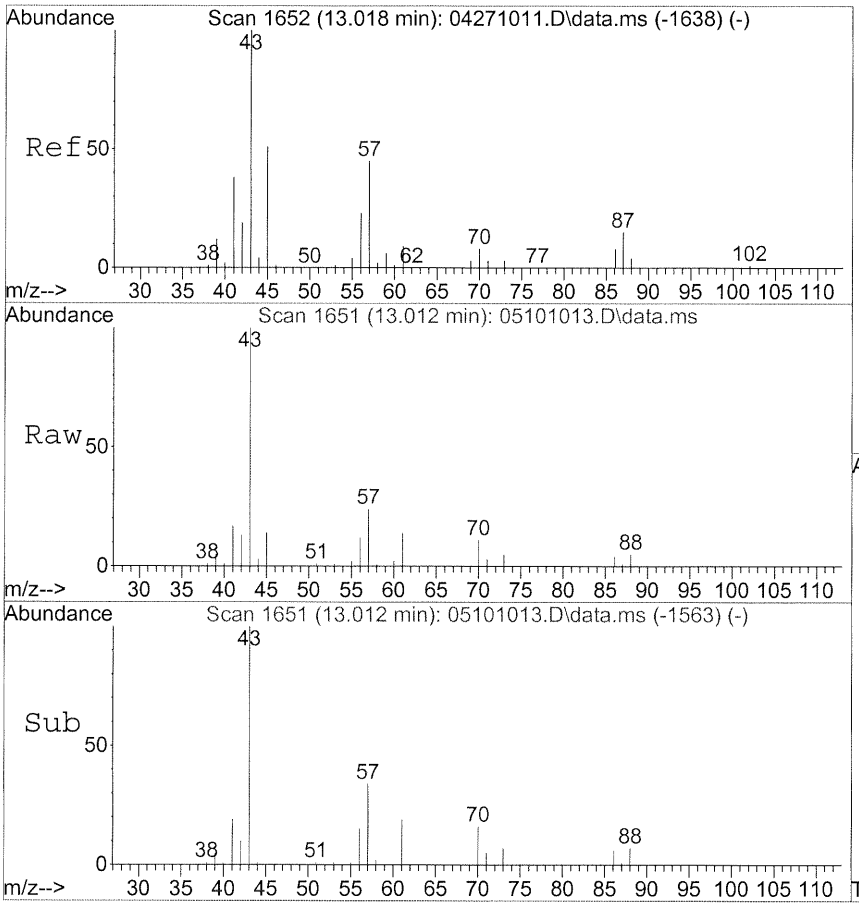


#30
Ethyl Acetate
Concen: 5.97 ng
RT: 12.99 min Scan# 1647
Delta R.T. -0.023 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 61 Resp: 48461

Ion	Ratio	Lower	Upper
61	100		
70	79.7	52.2	92.2

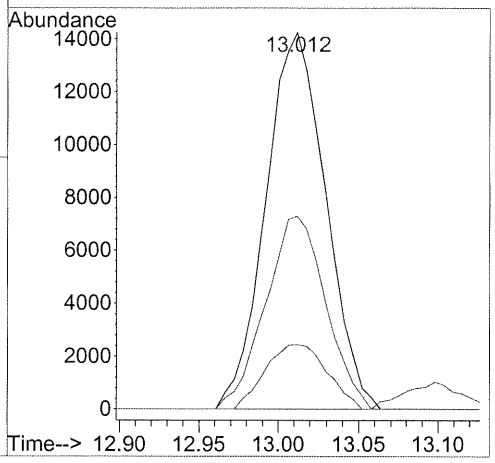


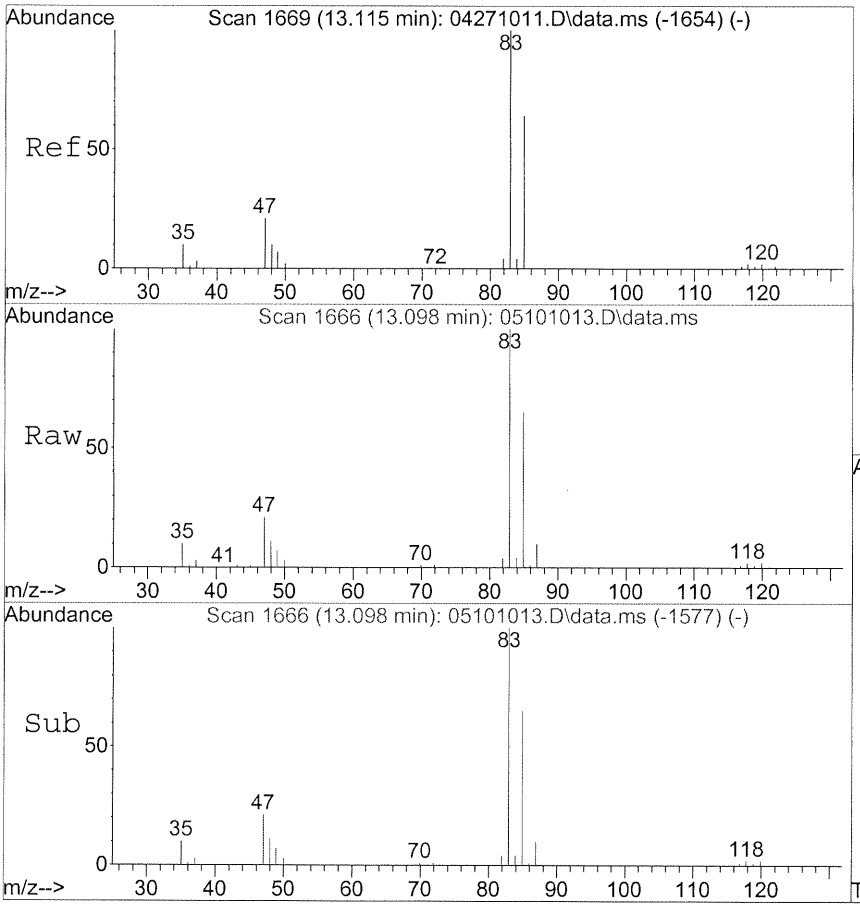


#31
n-Hexane
Concen: 0.96 ng
RT: 13.01 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 57 Resp: 36994

Ion	Ratio	Lower	Upper
57	100		
56	51.4	40.0	60.0
86	17.6	11.5	17.3#

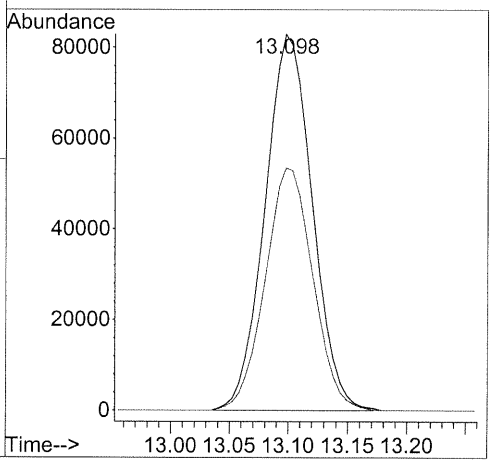


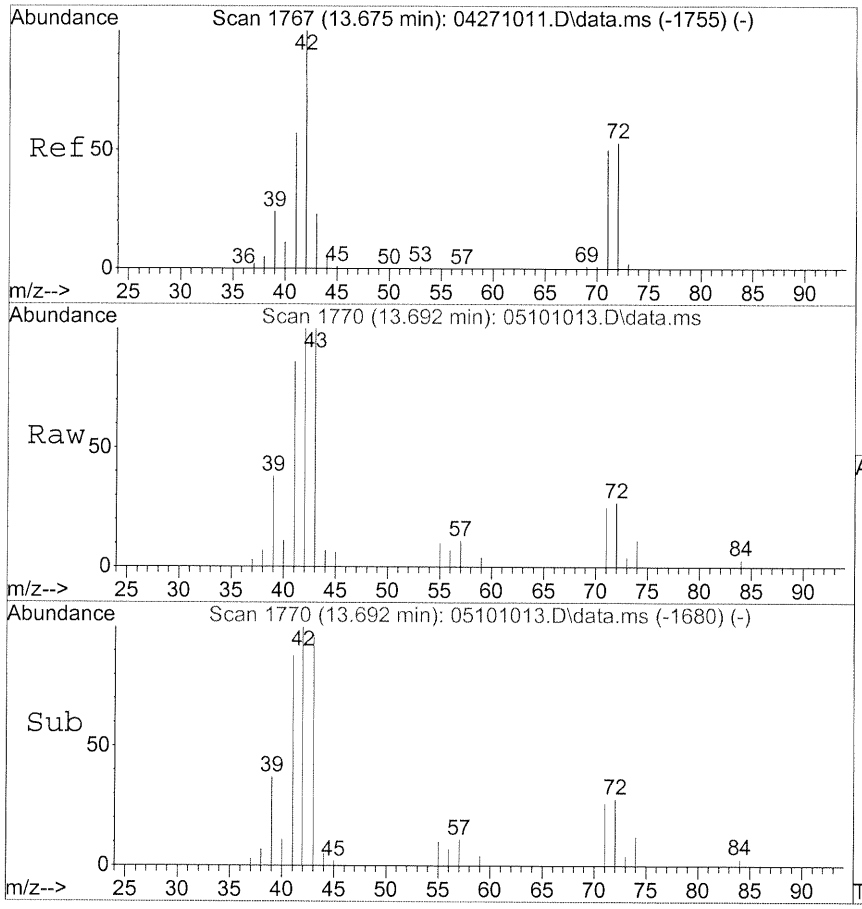


#32
Chloroform
Concen: 5.61 ng
RT: 13.10 min Scan# 1666
Delta R.T. 0.006 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 83 Resp: 230646

Ion	Ratio	Lower	Upper
83	100		
85	64.9	44.0	84.0

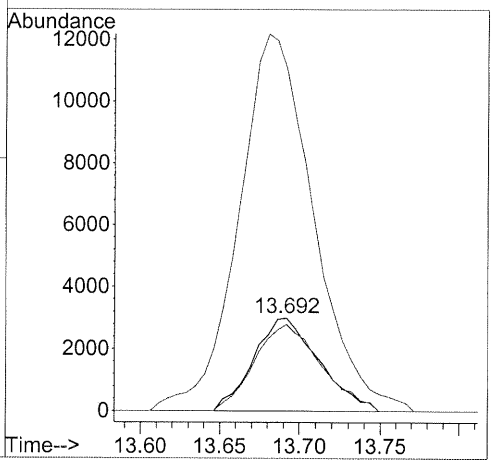


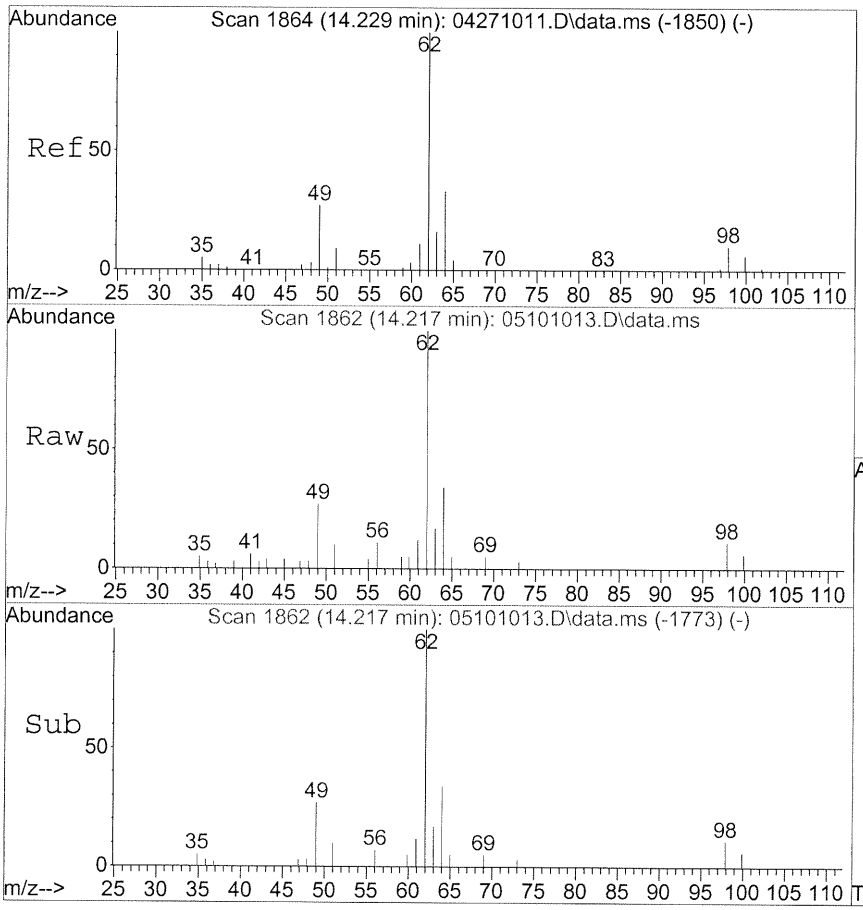


#34
Tetrahydrofuran (THF)
Concen: 0.57 ng
RT: 13.69 min Scan# 1770
Delta R.T. 0.012 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 72 Resp: 8472

Ion	Ratio	Lower	Upper
72	100		
71	94.5	76.0	116.0
42	466.0	231.9	271.9#

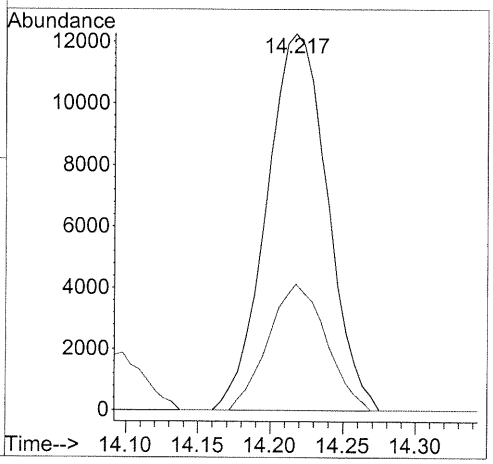


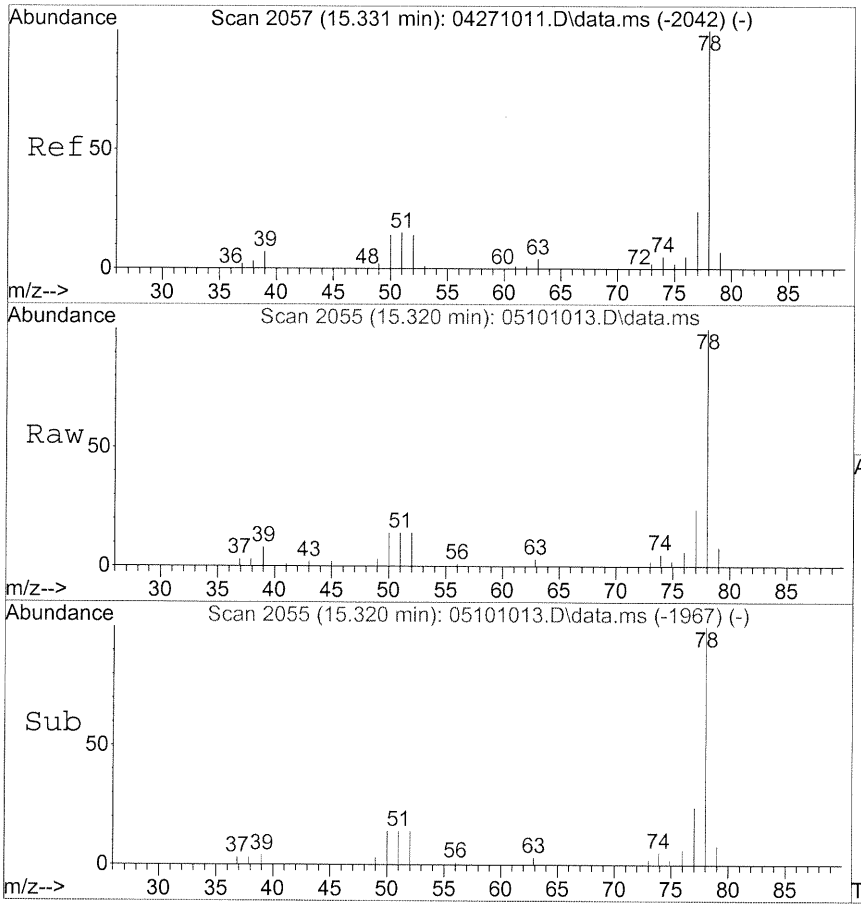


#36
1,2-Dichloroethane
Concen: 1.16 ng
RT: 14.22 min Scan# 1862
Delta R.T. 0.006 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 62 Resp: 35652

Ion	Ratio	Lower	Upper
62	100		
64	32.0	12.0	52.0

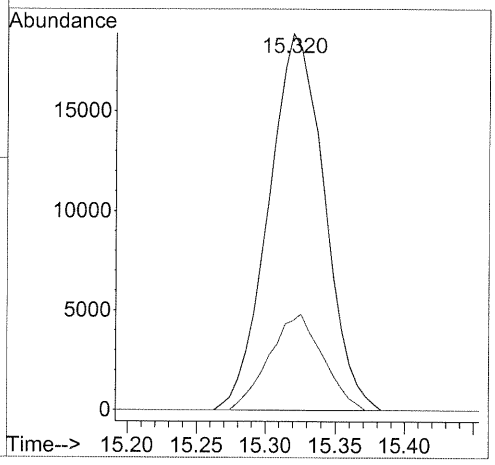


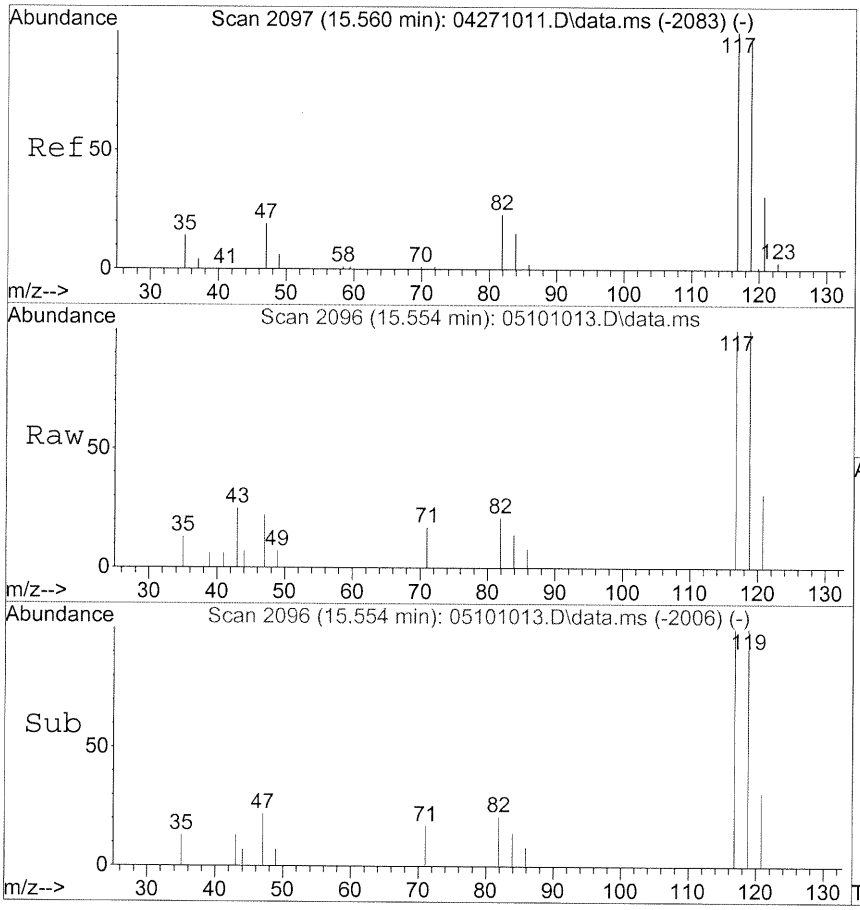


#41
Benzene
Concen: 0.52 ng
RT: 15.32 min Scan# 2055
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 78 Resp: 52377

Ion	Ratio	Lower	Upper
78	100		
77	24.4	4.4	44.4

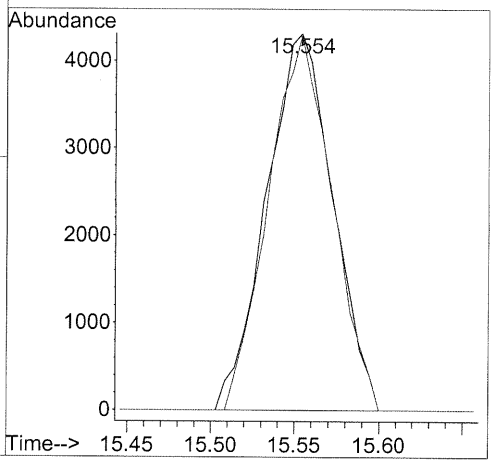


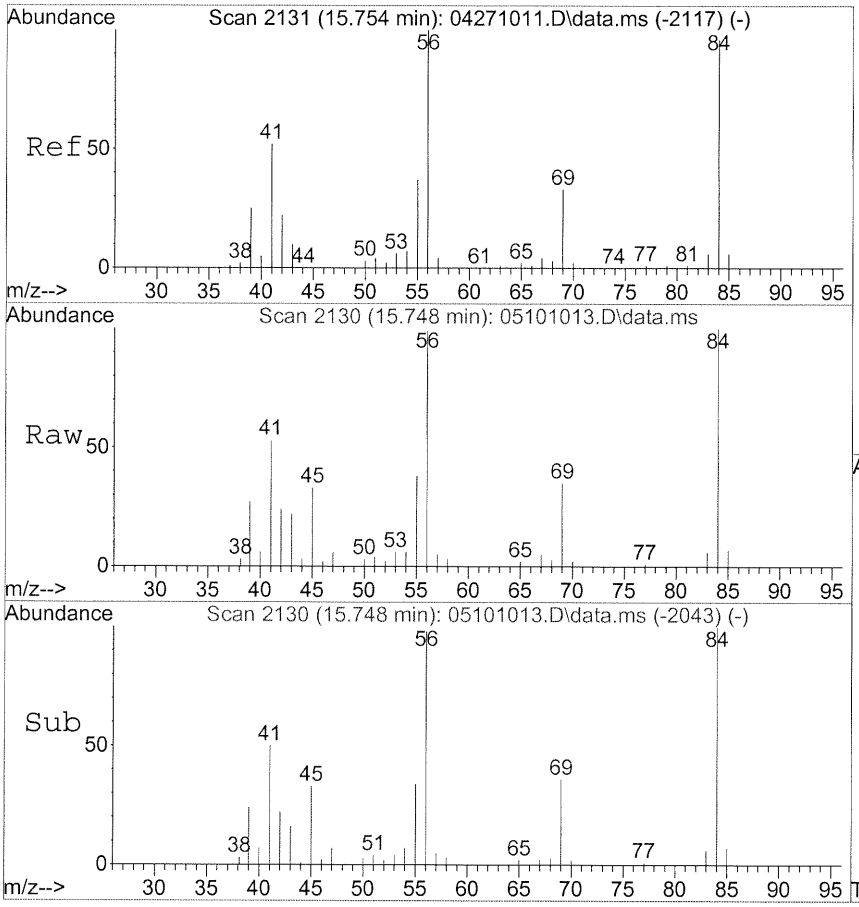


#42
Carbon Tetrachloride
Concen: 0.38 ng
RT: 15.55 min Scan# 2096
Delta R.T. 0.012 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:117 Resp: 11798

Ion	Ratio	Lower	Upper
117	100		
119	95.7	75.8	115.8

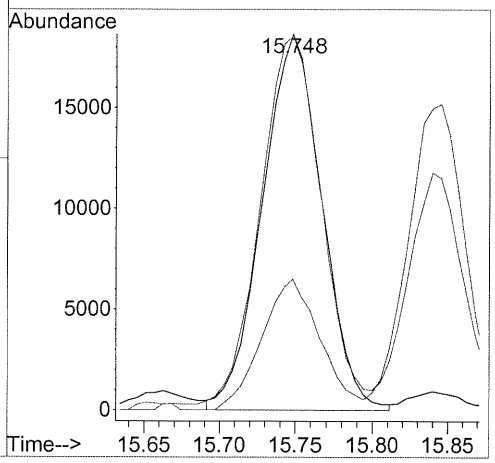


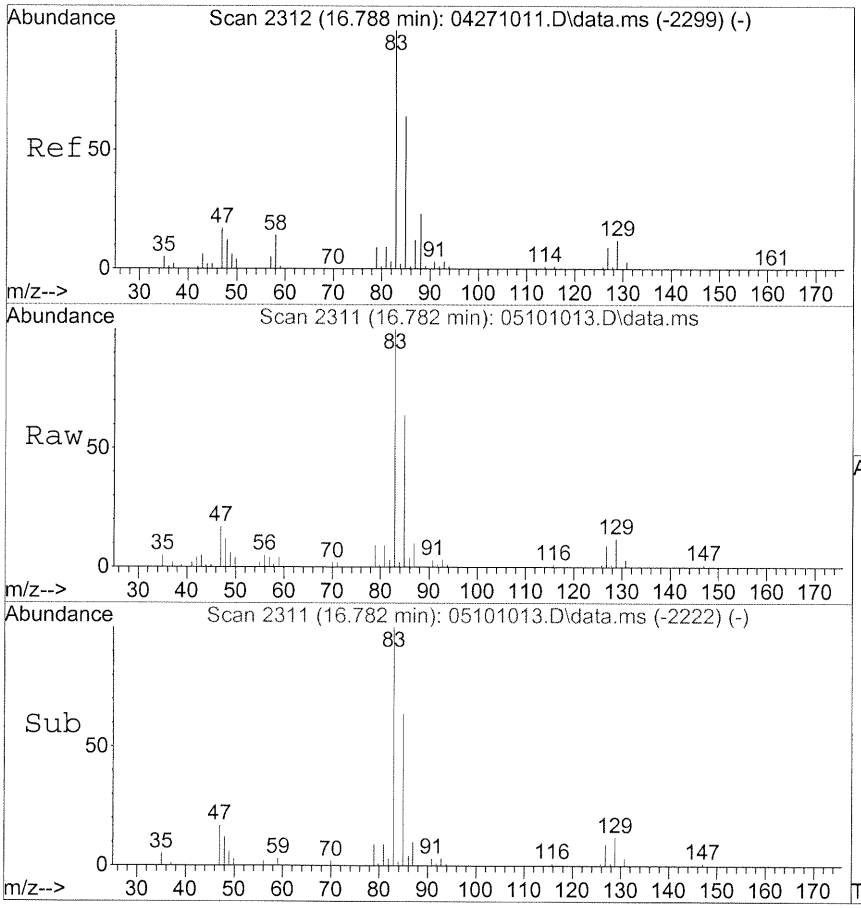


#43
Cyclohexane
Concen: 1.34 ng
RT: 15.75 min Scan# 2130
Delta R.T. -0.006 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 84 Resp: 50332

Ion	Ratio	Lower	Upper
84	100		
69	34.2	18.4	58.4
56	103.2	112.6	152.6#

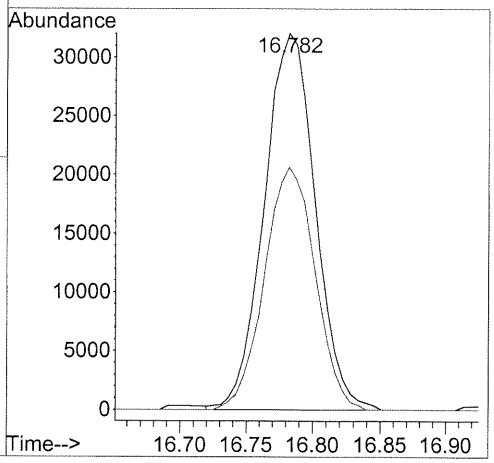


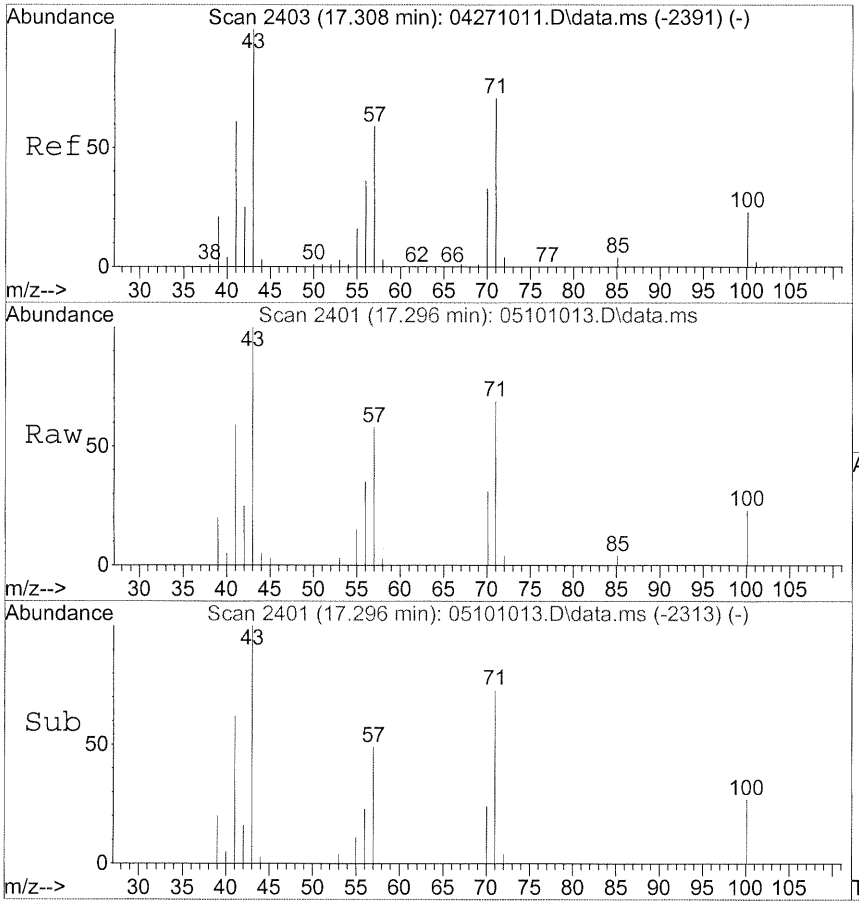


#46
Bromodichloromethane
Concen: 2.82 ng
RT: 16.78 min Scan# 2311
Delta R.T. 0.006 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 83 Resp: 85397

Ion	Ratio	Lower	Upper
83	100		
85	63.9	42.8	82.8

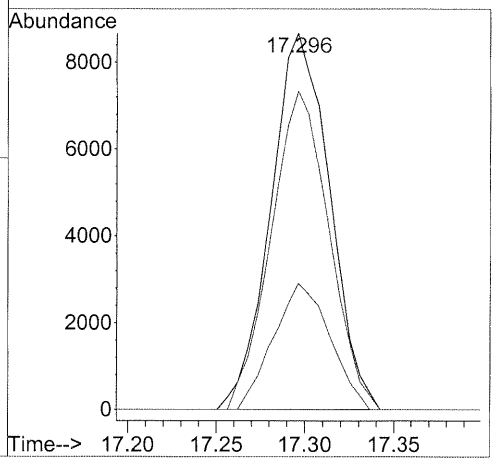


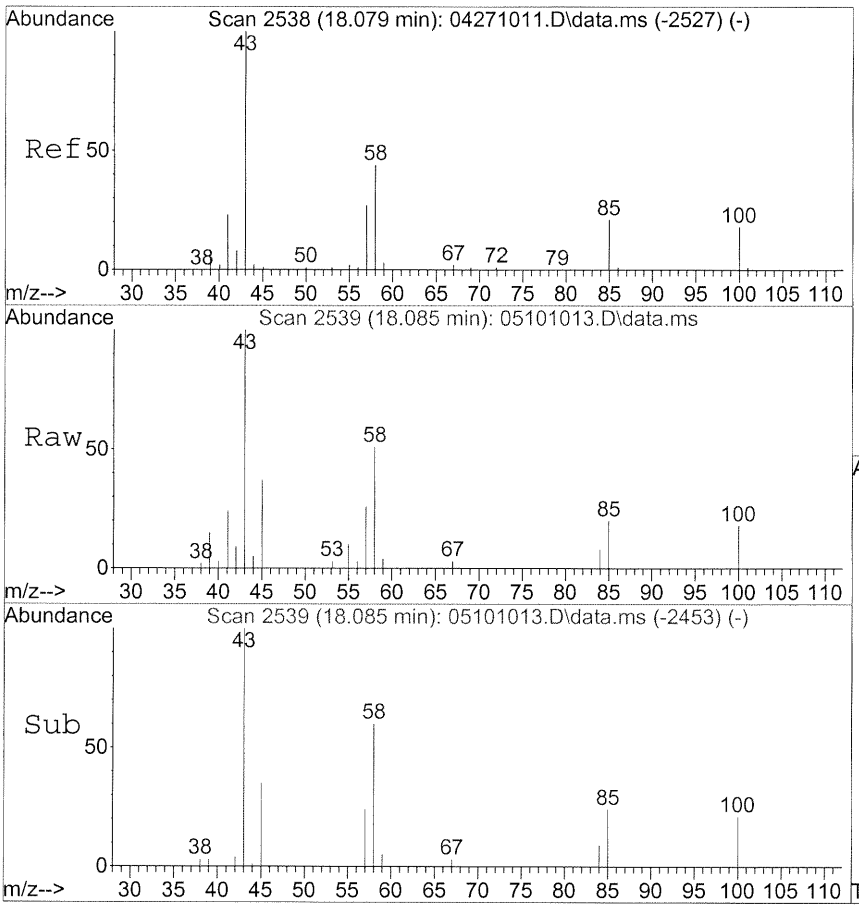


#51
n-Heptane
Concen: 0.82 ng
RT: 17.30 min Scan# 2401
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 71 Resp: 19804

Ion	Ratio	Lower	Upper
71	100		
57	83.4	74.9	114.9
100	32.2	5.0	45.0

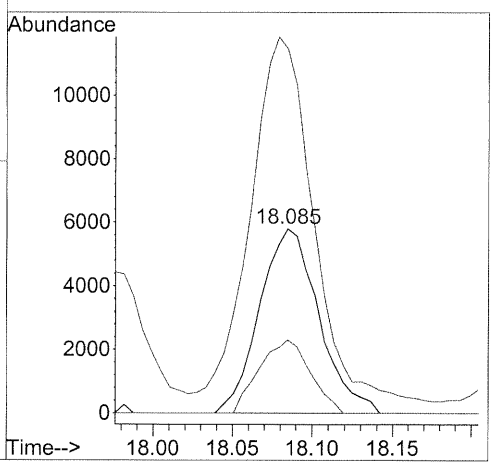


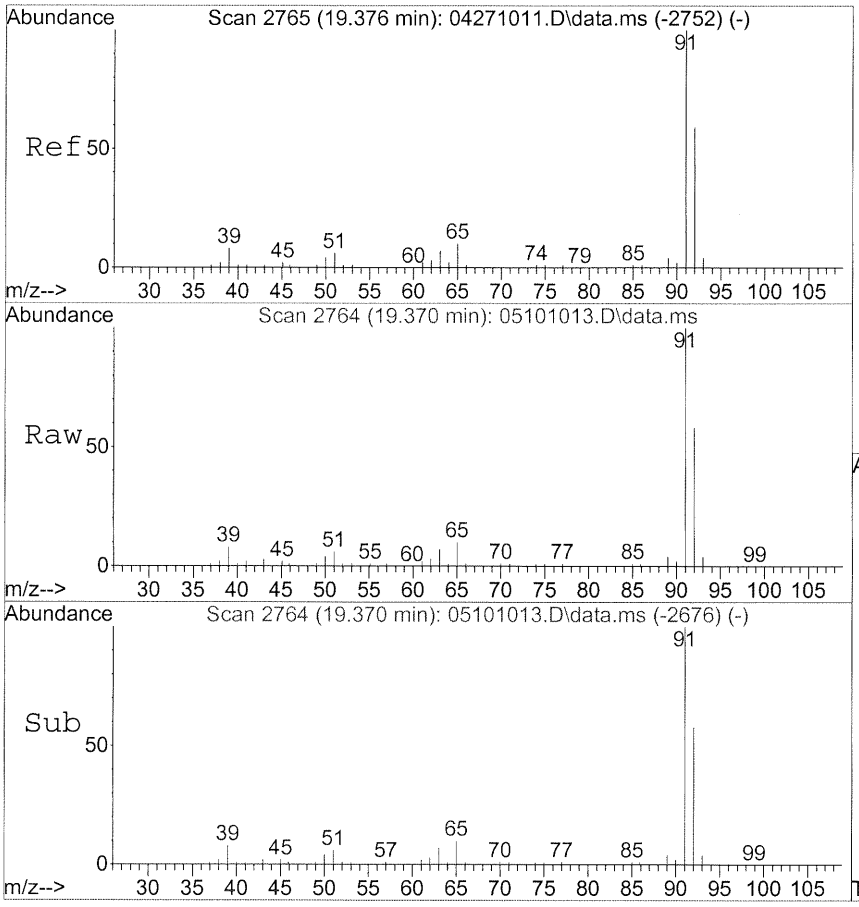


#53
4-Methyl-2-pentanone
Concen: 0.78 ng
RT: 18.08 min Scan# 2539
Delta R.T. -0.011 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 58 Resp: 14913

Ion	Ratio	Lower	Upper
58	100		
43	207.7	207.1	310.7
85	34.2	31.4	47.2

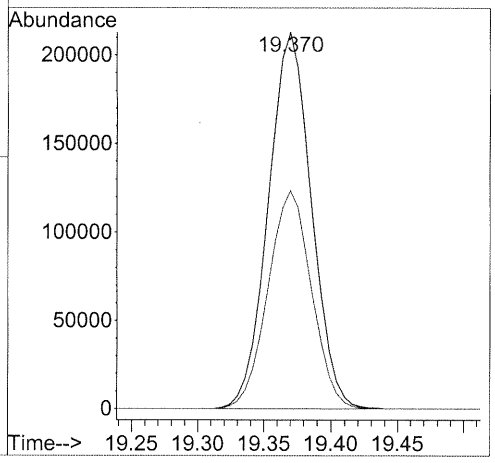


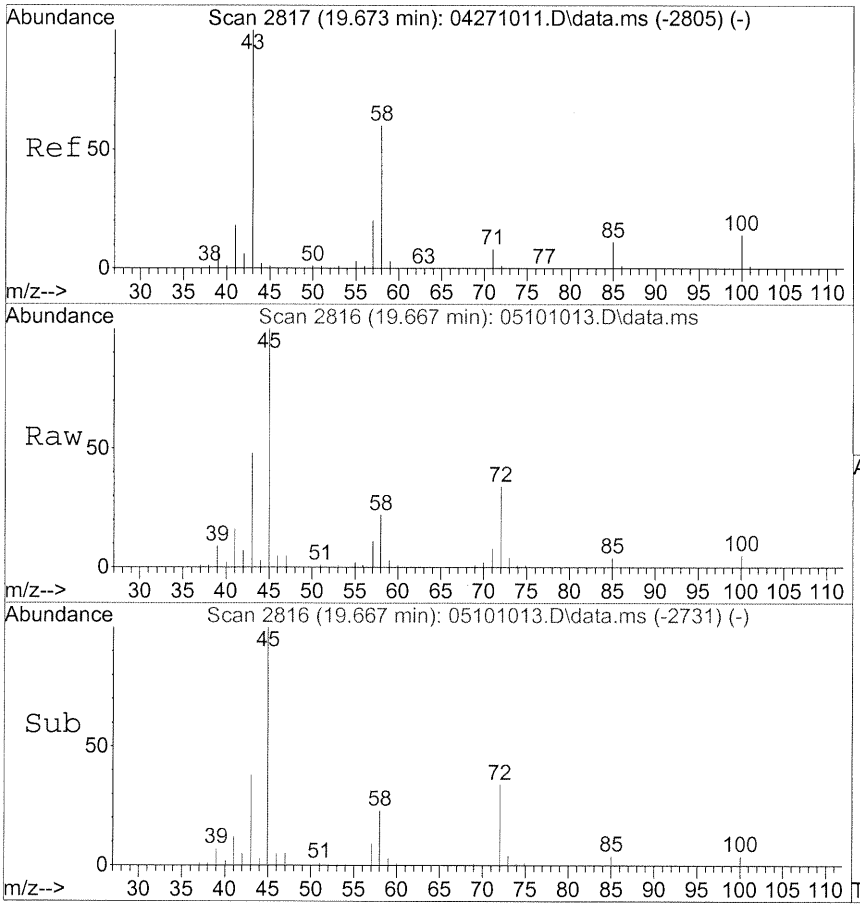


#58
Toluene
Concen: 4.45 ng
RT: 19.37 min Scan# 2764
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 91 Resp: 476377

Ion	Ratio	Lower	Upper
91	100		
92	58.6	37.6	77.6

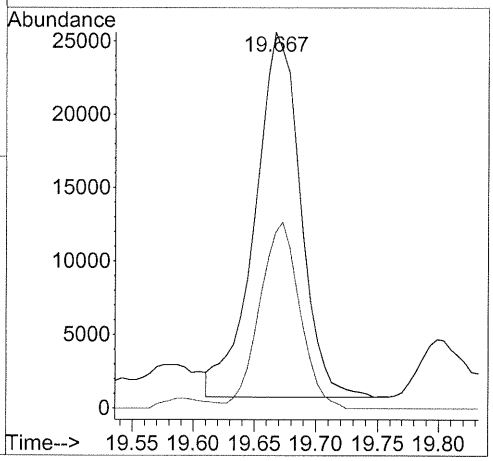


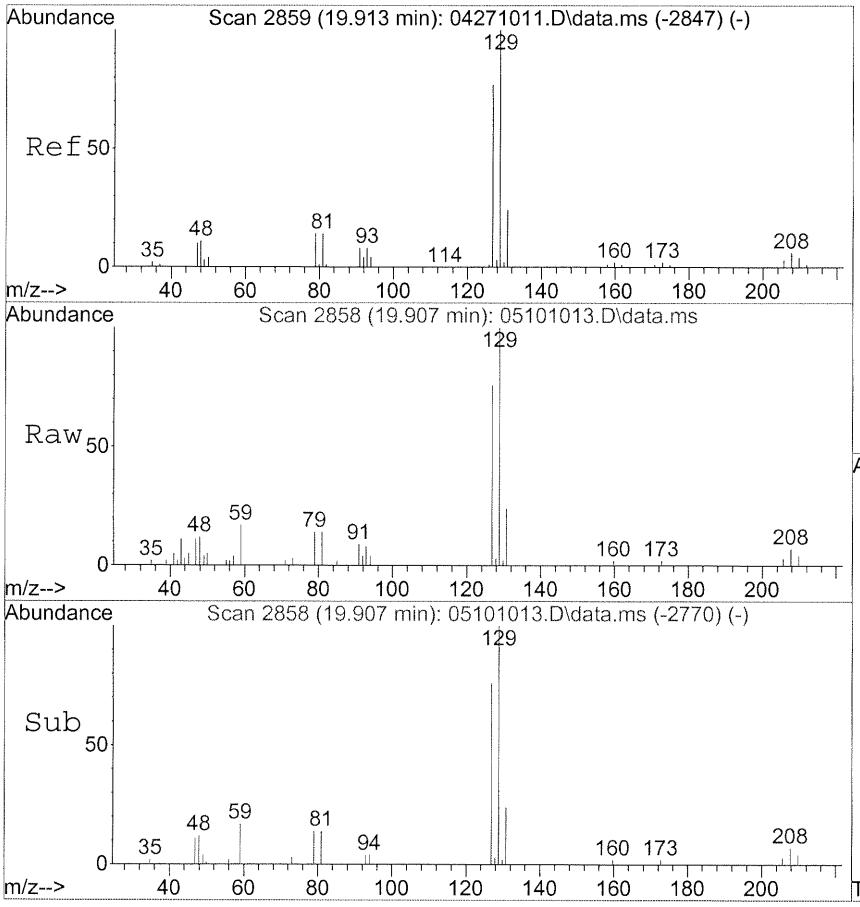


#59
2-Hexanone
Concen: 1.43 ng
RT: 19.67 min Scan# 2816
Delta R.T. -0.017 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 43 Resp: 64760

Ion	Ratio	Lower	Upper
43	100		
58	44.2	33.3	73.3

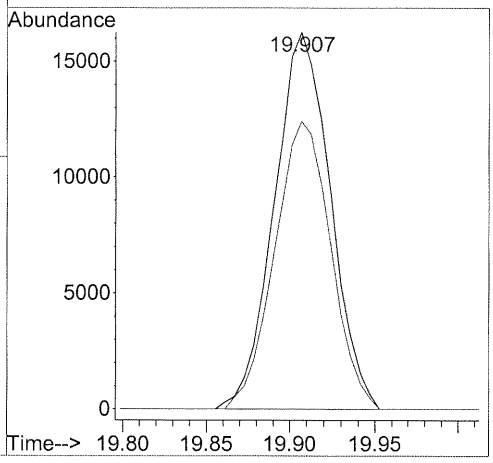


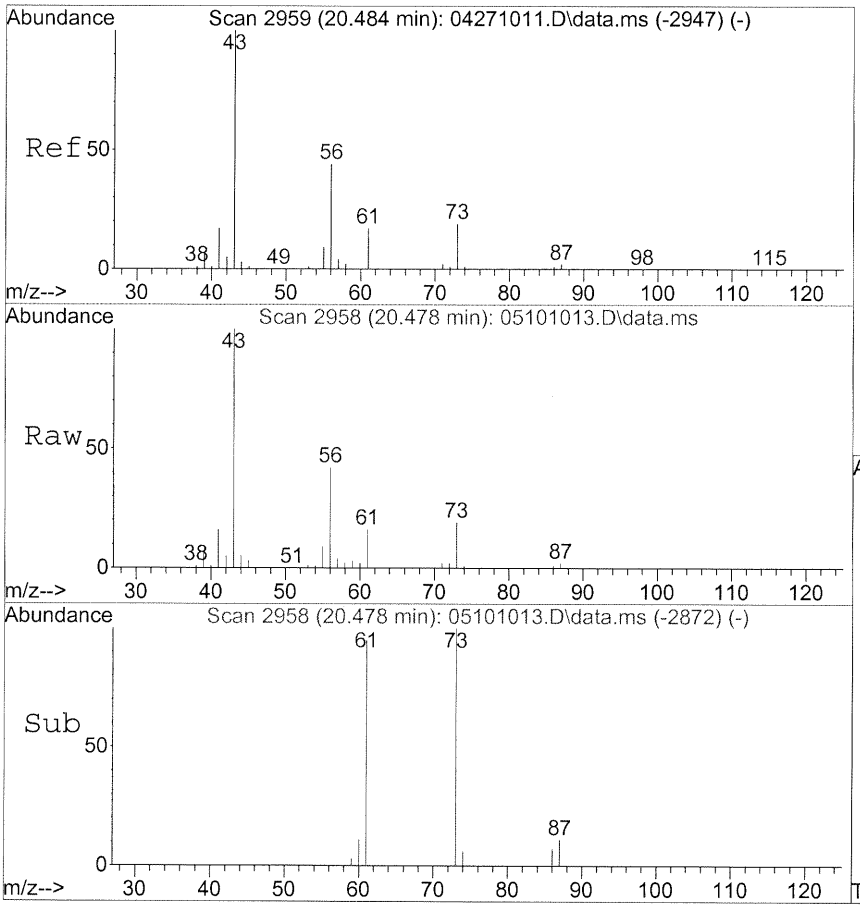


#60
Dibromochloromethane
Concen: 1.46 ng
RT: 19.91 min Scan# 2858
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:129 Resp: 37356

Ion	Ratio	Lower	Upper
129	100		
127	76.3	57.2	97.2

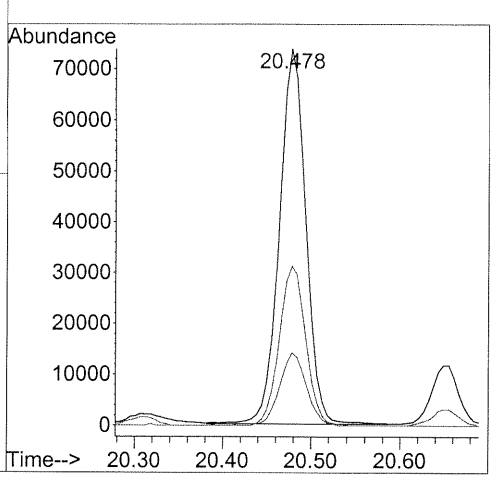


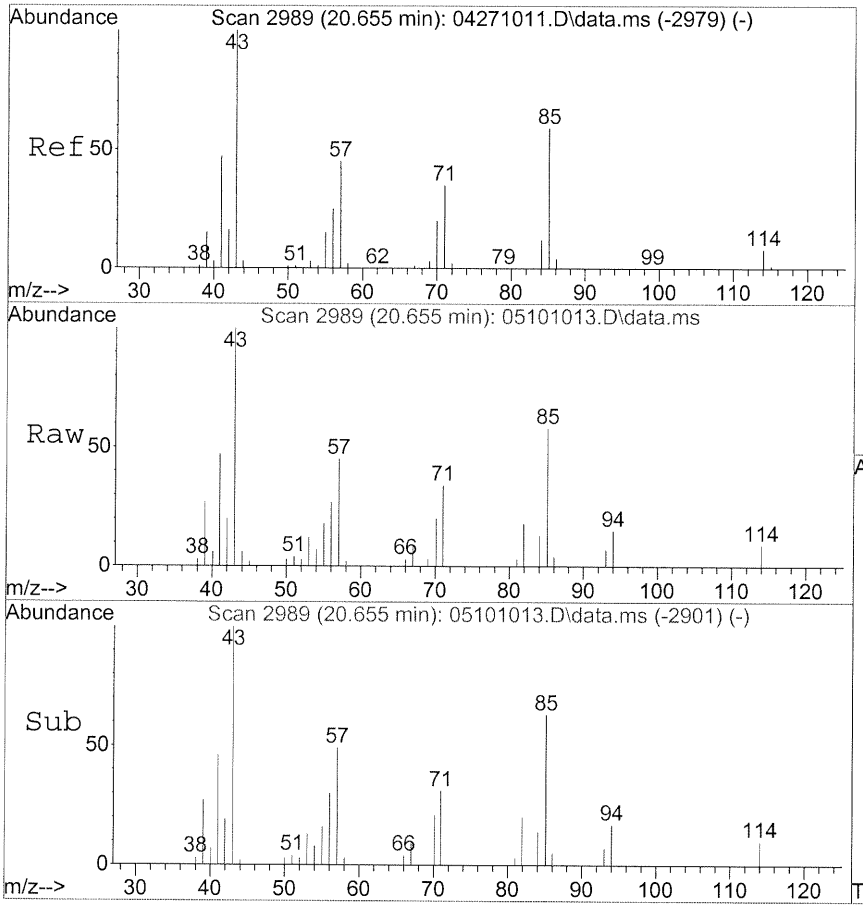


#62
n-Butyl Acetate
Concen: 2.95 ng
RT: 20.48 min Scan# 2958
Delta R.T. -0.011 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 43 Resp: 152509

Ion	Ratio	Lower	Upper
43	100		
56	42.4	19.7	59.7
73	19.4	0.0	34.2

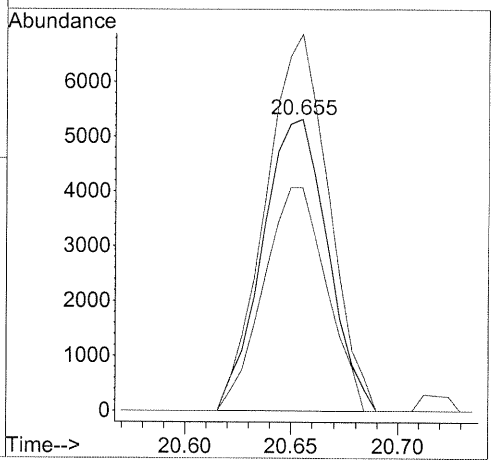


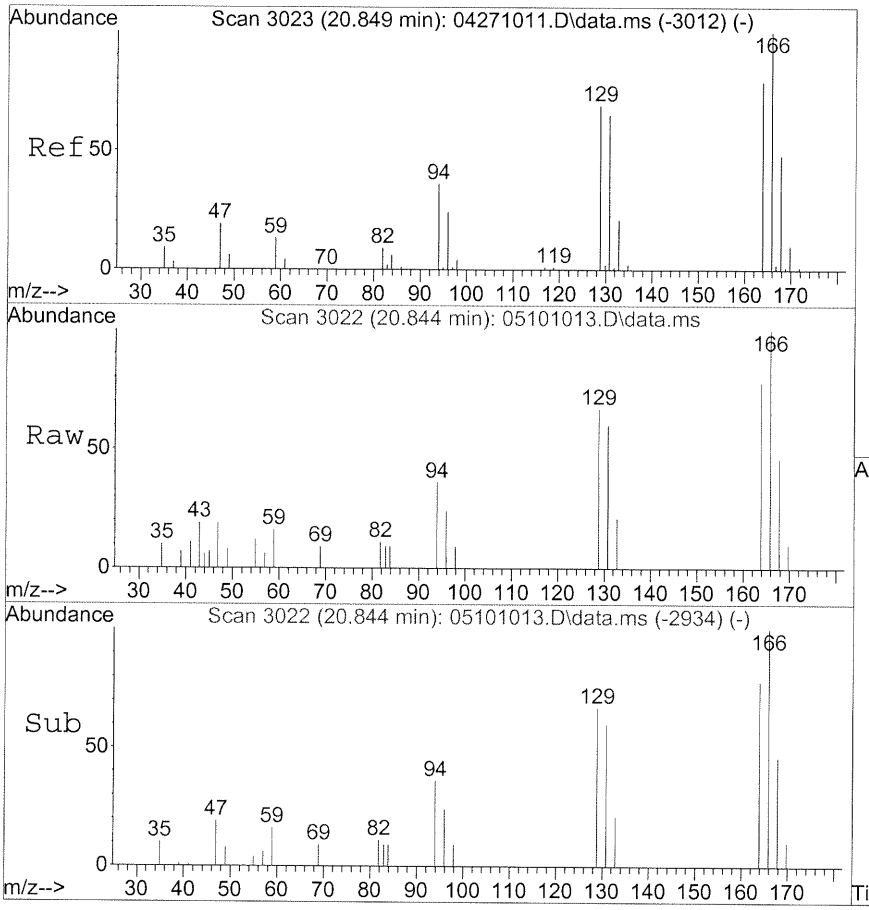


#63
n-Octane
Concen: 0.58 ng
RT: 20.66 min Scan# 2989
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 57 Resp: 11211

Ion	Ratio	Lower	Upper
57	100		
85	125.2	81.8	122.8#
71	74.2	55.0	82.6

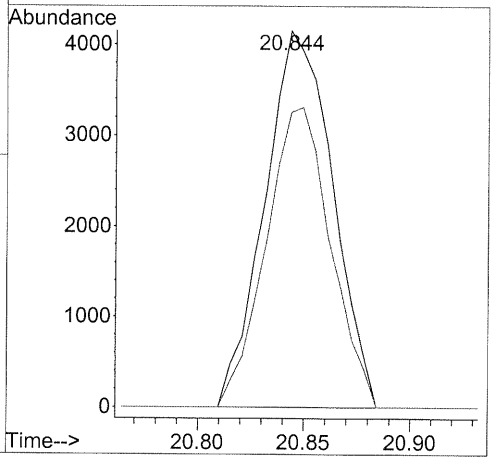


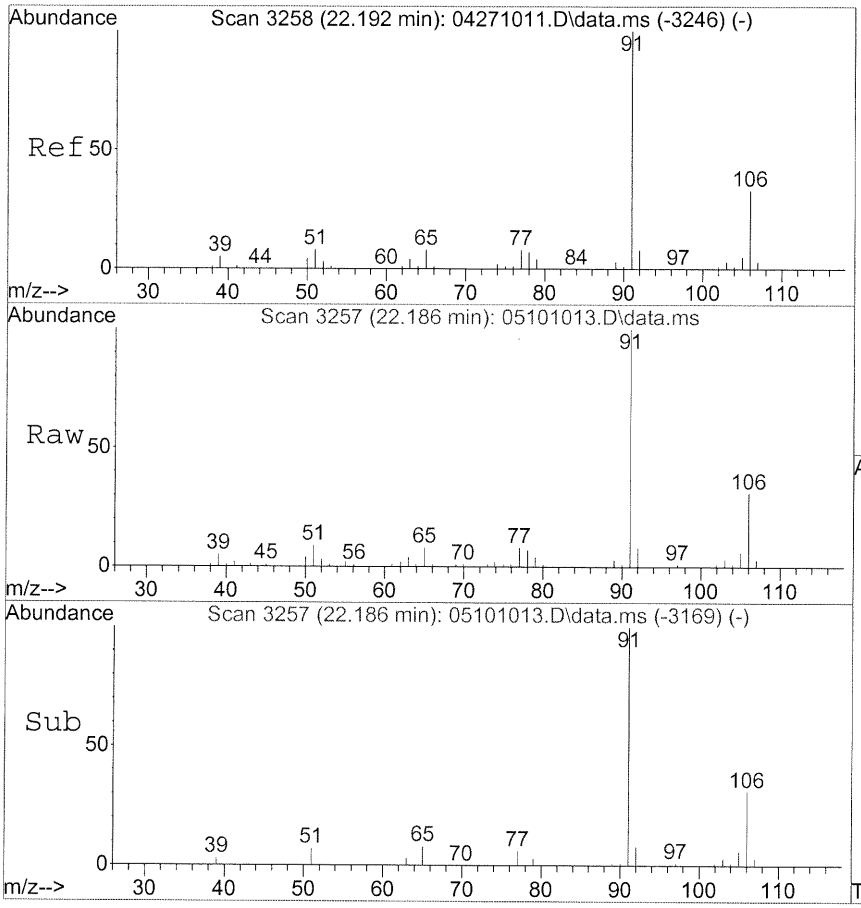


#64
Tetrachloroethene
Concen: 0.27 ng
RT: 20.84 min Scan# 3022
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:166 Resp: 9197

Ion	Ratio	Lower	Upper
166	100		
164	75.8	58.4	98.4

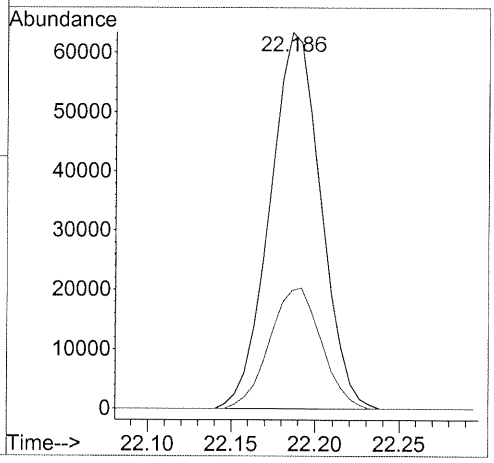


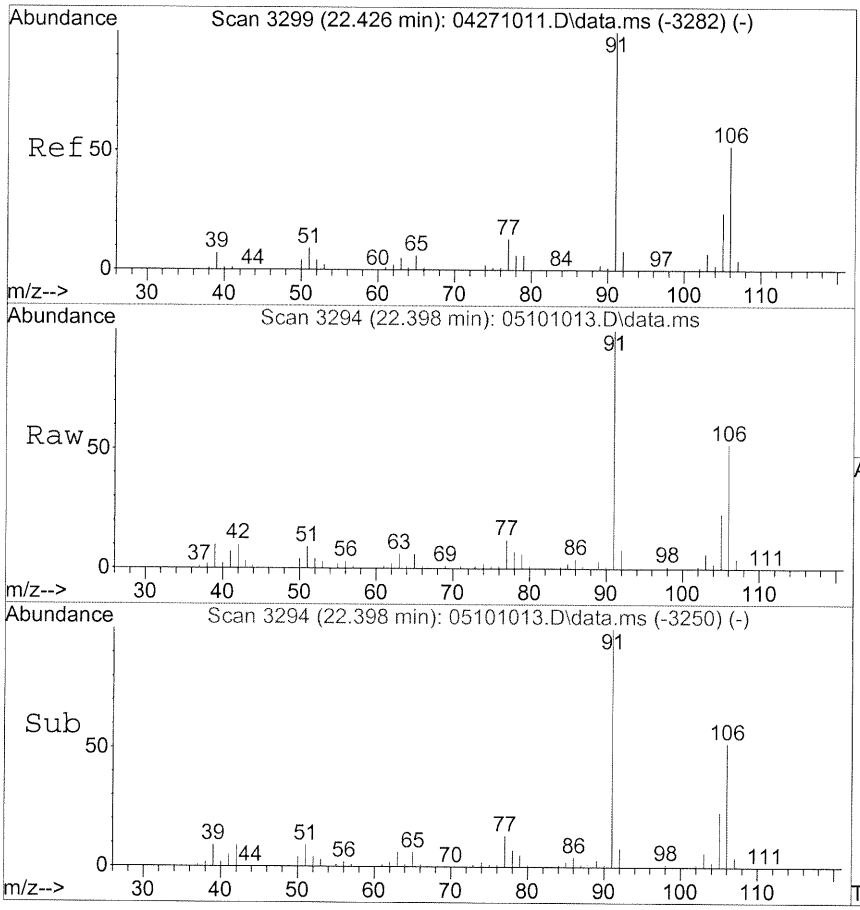


#66
Ethylbenzene
Concen: 1.13 ng
RT: 22.19 min Scan# 3257
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 91 Resp: 132969

Ion	Ratio	Lower	Upper
91	100		
106	32.4	9.8	49.8

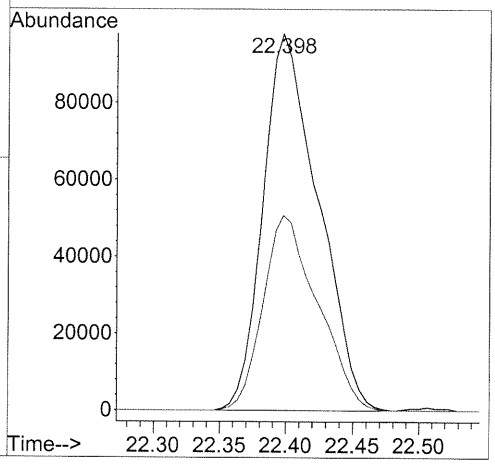


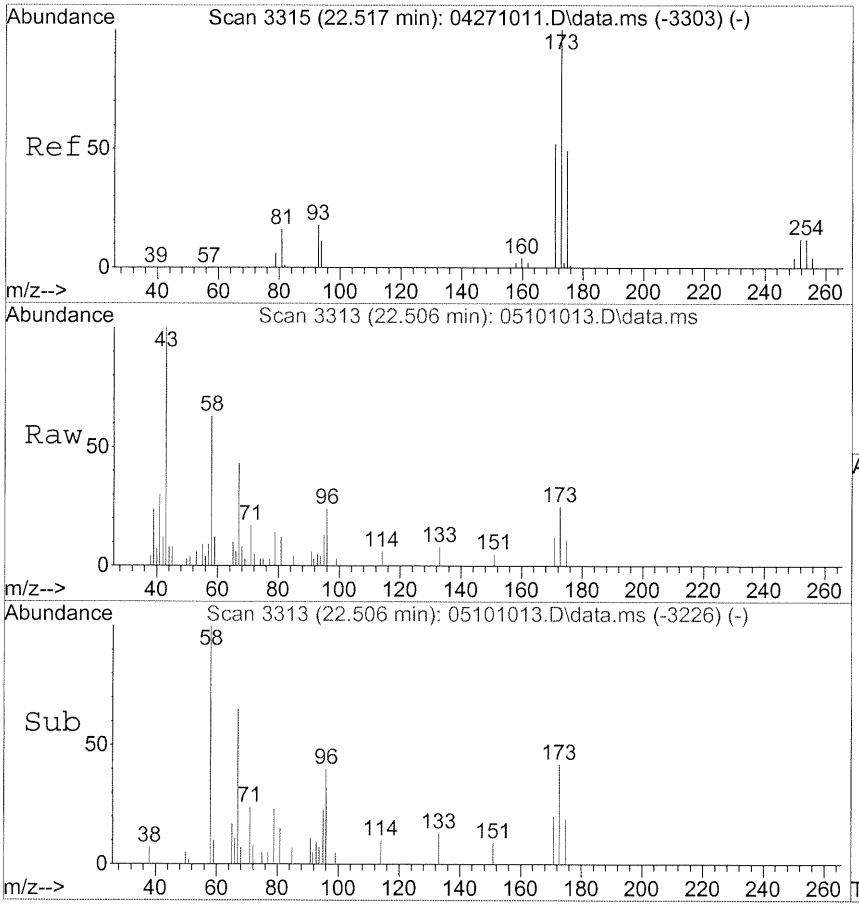


#67
m- & p-Xylenes
Concen: 3.05 ng
RT: 22.40 min Scan# 3294
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 91 Resp: 282764

Ion	Ratio	Lower	Upper
91	100		
106	51.2	26.8	66.8

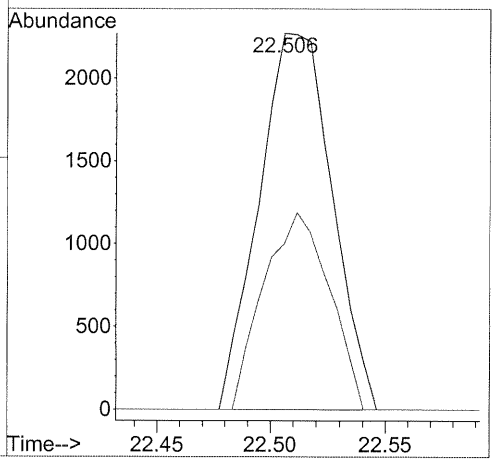


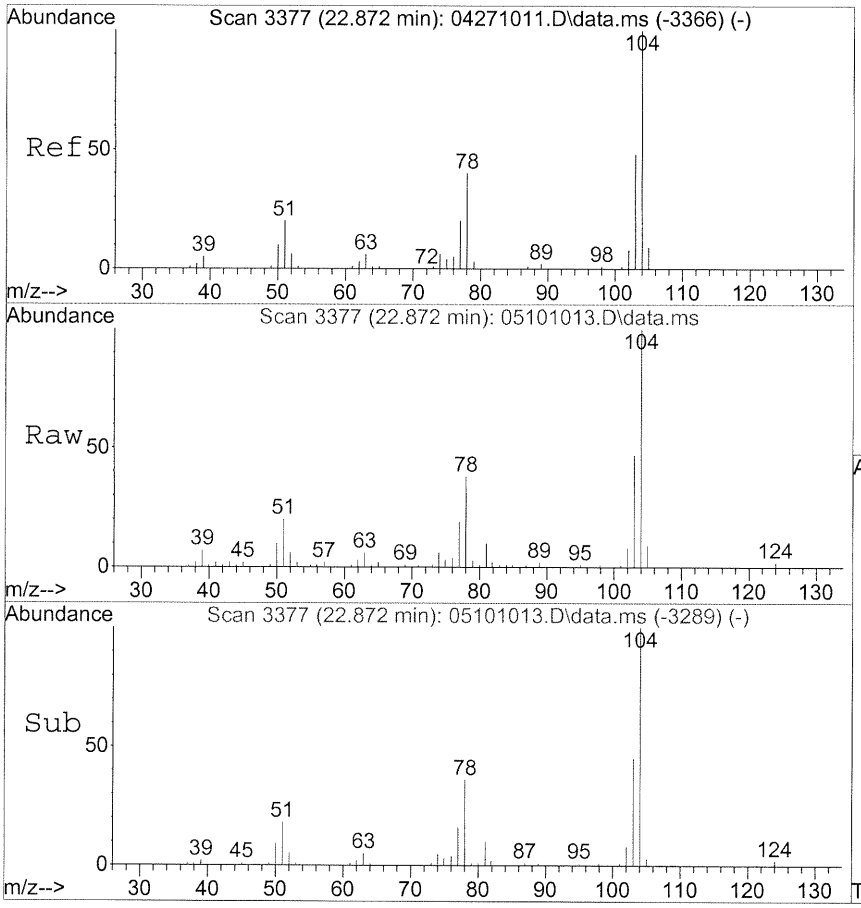


#68
Bromoform
Concen: 0.21 ng
RT: 22.51 min Scan# 3313
Delta R.T. -0.006 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:173 Resp: 5010

Ion	Ratio	Lower	Upper
173	100		
175	47.2	28.5	68.5

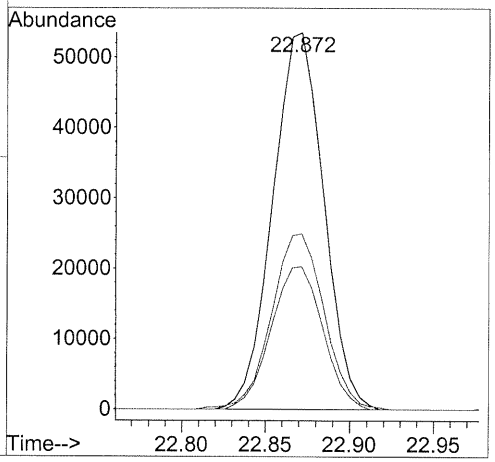


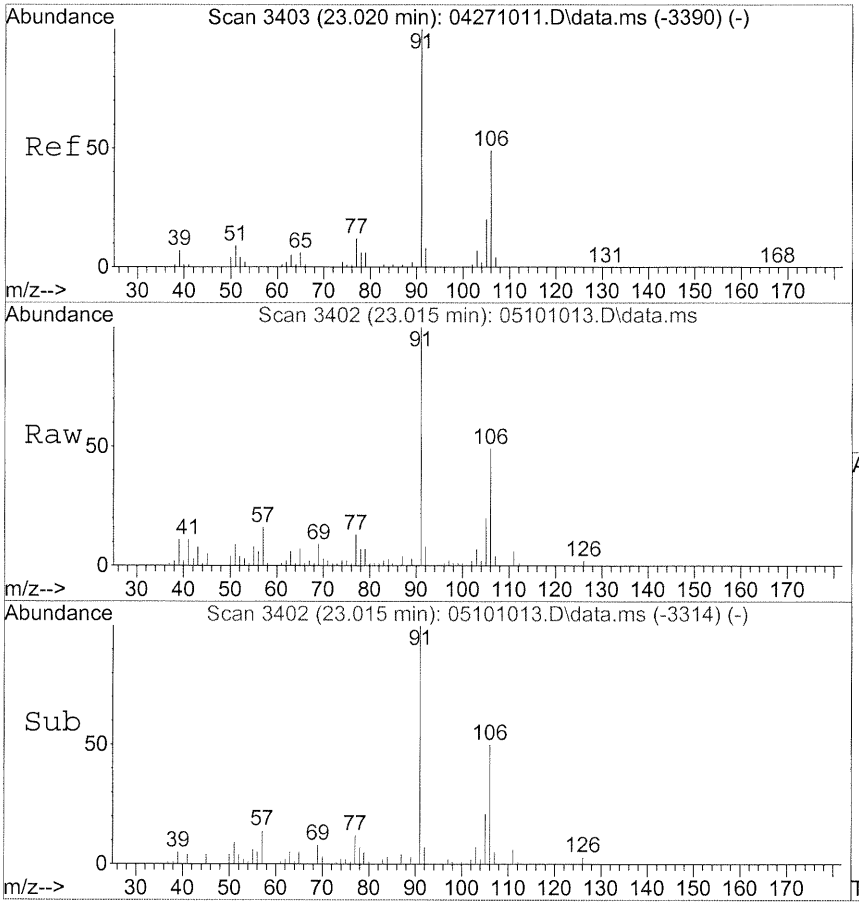


#69
Styrene
Concen: 1.54 ng
RT: 22.87 min Scan# 3377
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:104 Resp: 112490

Ion	Ratio	Lower	Upper
104	100		
78	38.5	26.1	66.1
103	48.1	28.7	68.7

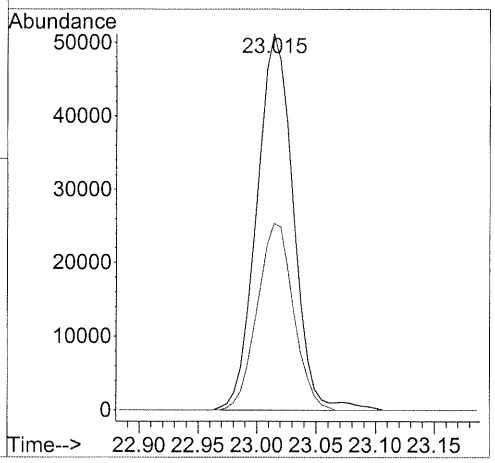


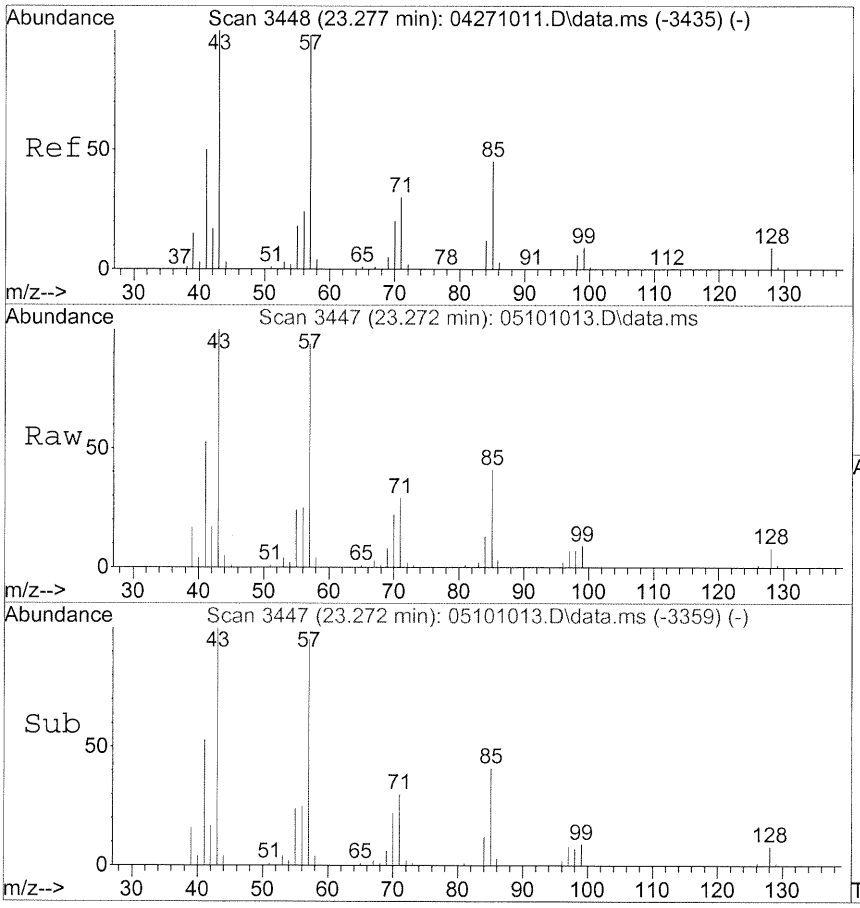


#70
o-Xylene
Concen: 1.16 ng
RT: 23.01 min Scan# 3402
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 91 Resp: 110116

Ion	Ratio	Lower	Upper
91	100		
106	49.0	24.4	64.4

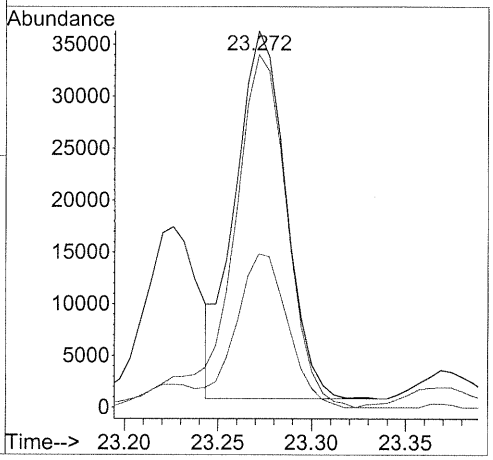


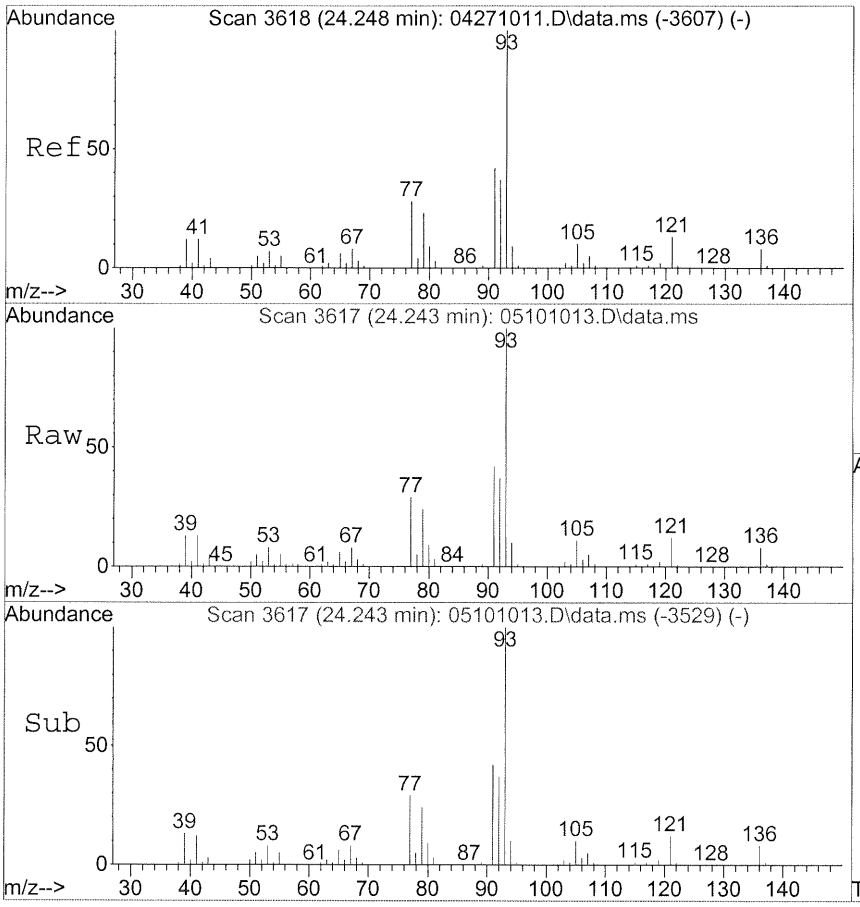


#71
n-Nonane
Concen: 1.63 ng
RT: 23.27 min Scan# 3447
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 43 Resp: 67072

Ion	Ratio	Lower	Upper
43	100		
57	104.8	65.6	105.6
85	43.2	9.9	49.9

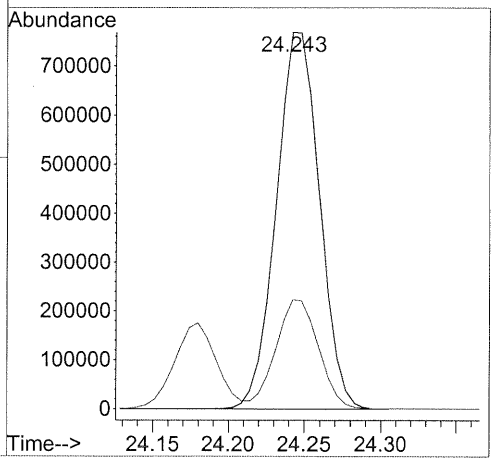


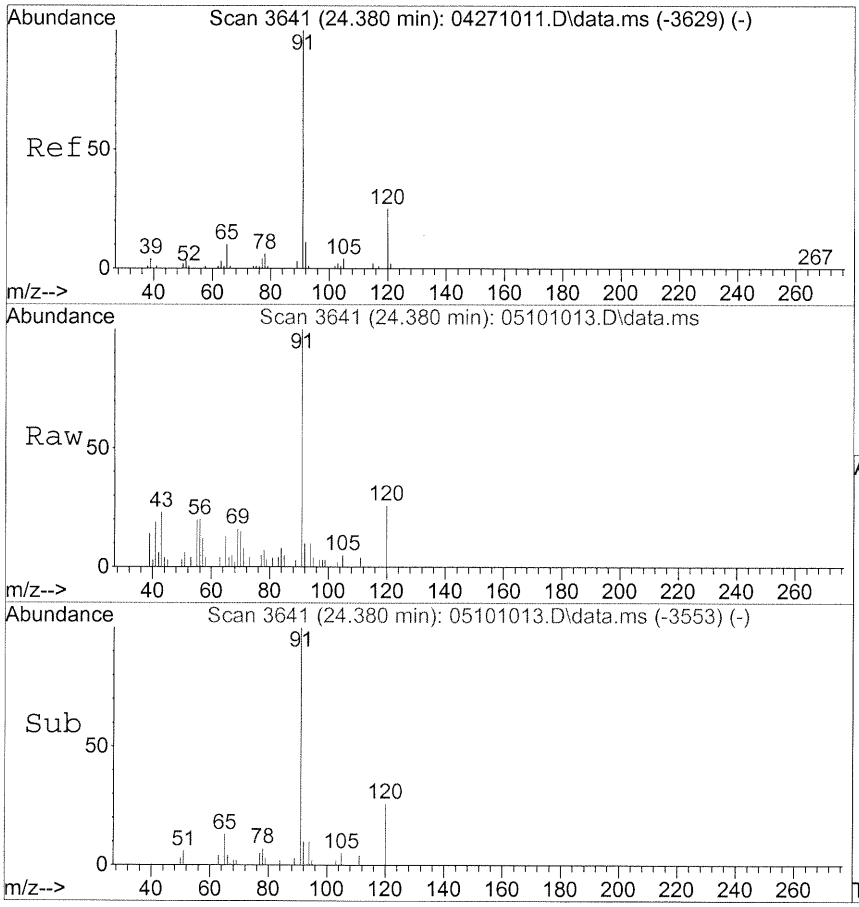


#75
alpha-Pinene
Concen: 25.14 ng
RT: 24.24 min Scan# 3617
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 93 Resp: 1506673

Ion	Ratio	Lower	Upper
93	100		
77	28.4	12.3	52.3

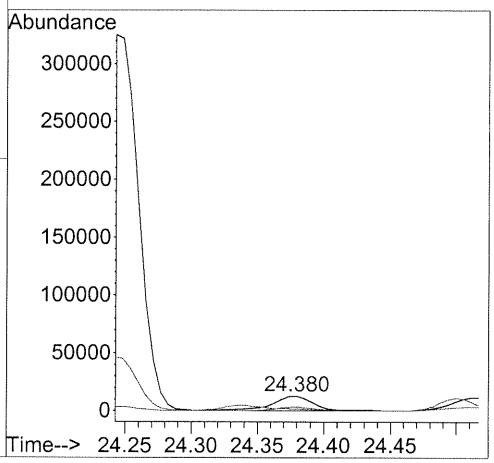


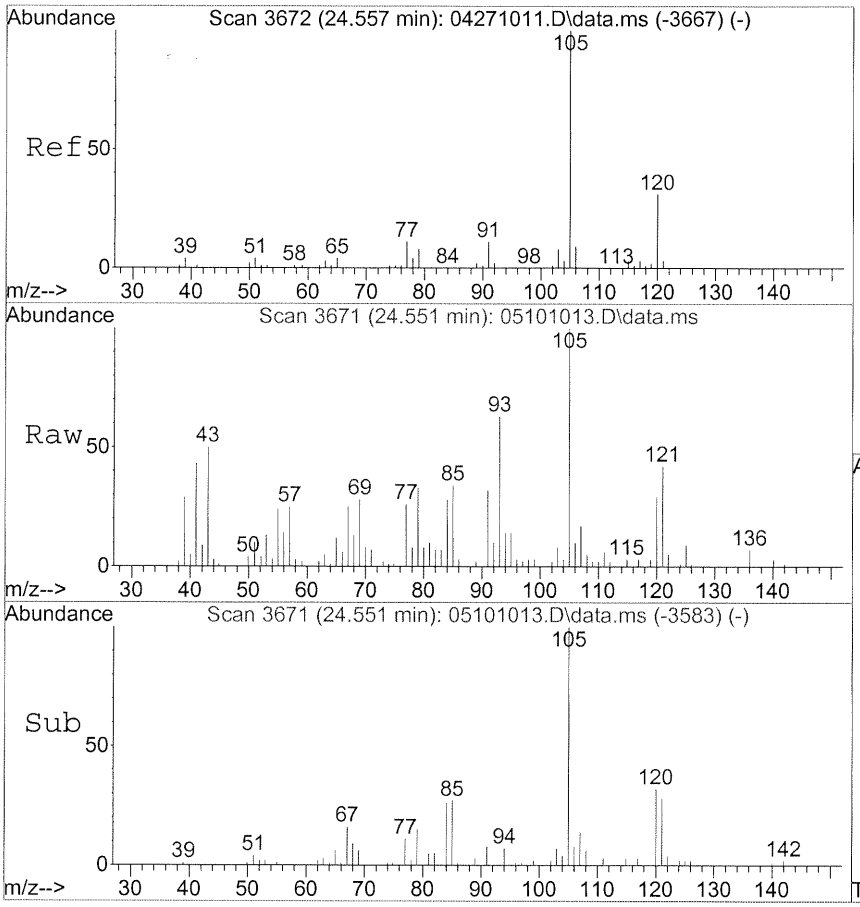


#76
n-Propylbenzene
Concen: 0.18 ng
RT: 24.38 min Scan# 3641
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion: 91 Resp: 26876

Ion	Ratio	Lower	Upper
91	100		
120	21.7	0.9	40.9
65	0.0	0.0	31.2

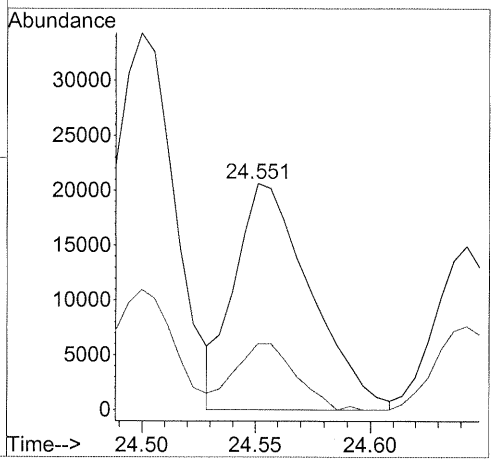


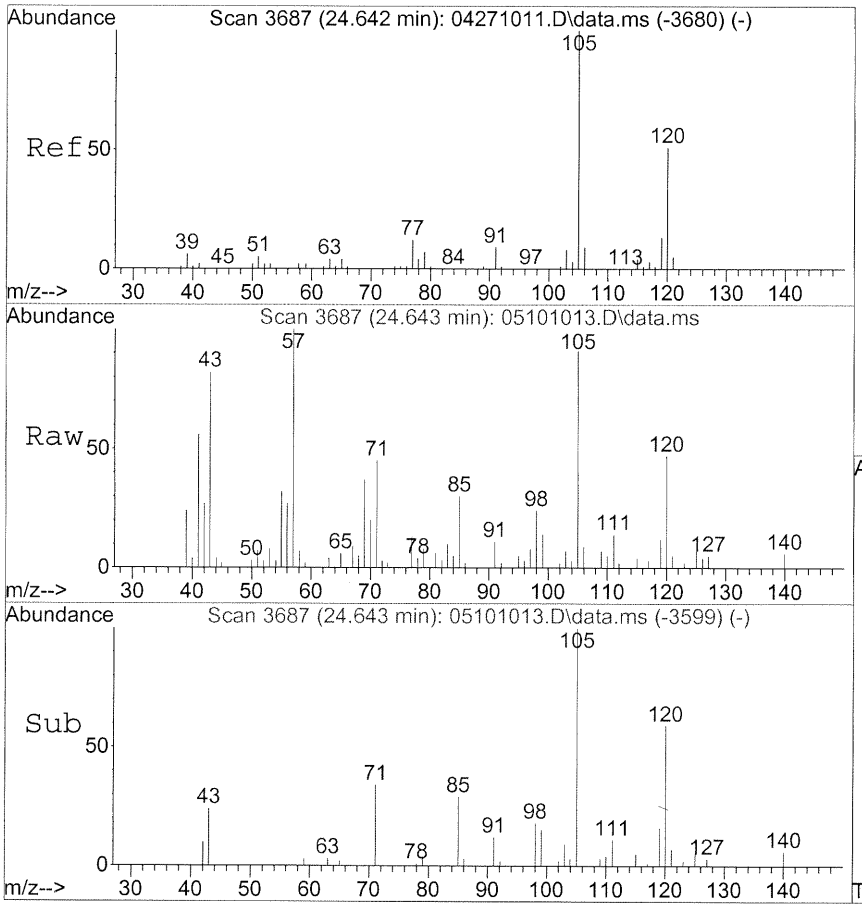


#78
4-Ethyltoluene
Concen: 0.40 ng
RT: 24.55 min Scan# 3671
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:105 Resp: 47621

Ion	Ratio	Lower	Upper
105	100		
120	23.6	8.2	48.2

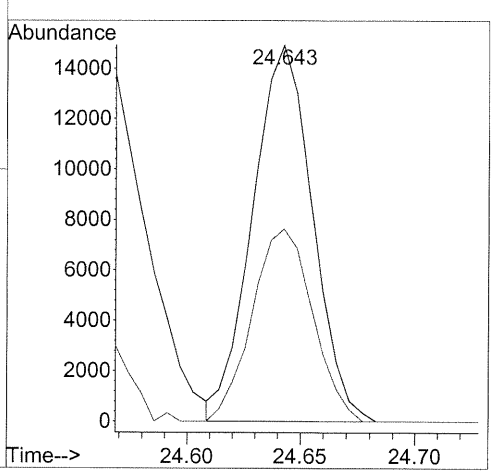


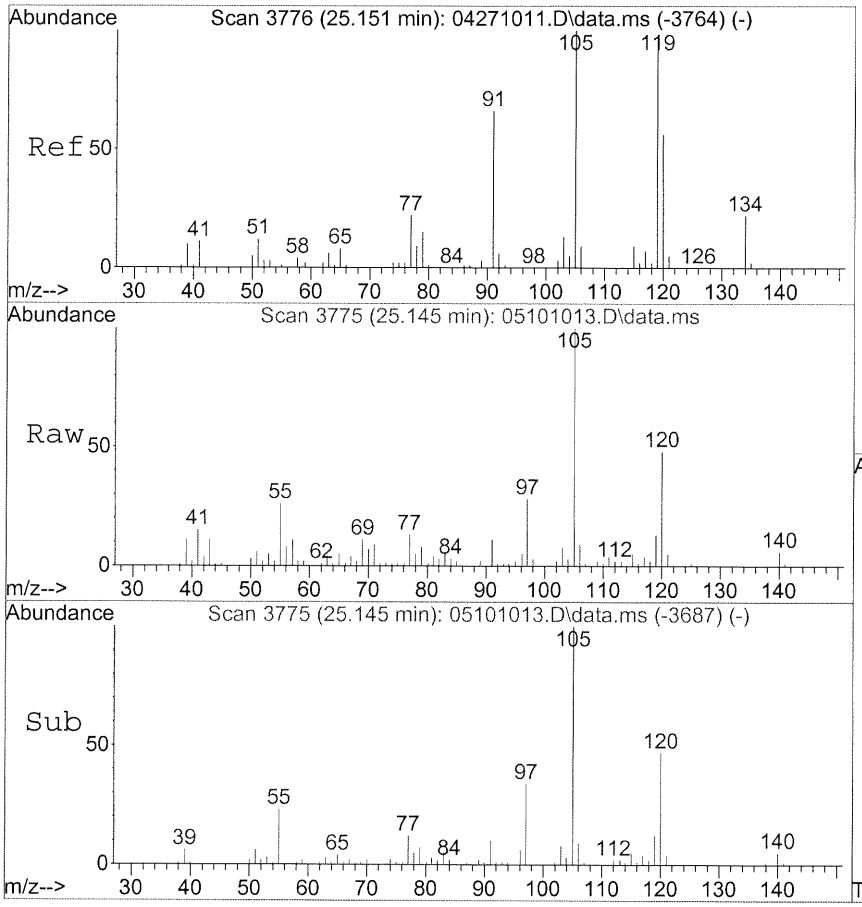


#79
1,3,5-Trimethylbenzene
Concen: 0.28 ng
RT: 24.64 min Scan# 3687
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:105 Resp: 27290

Ion	Ratio	Lower	Upper
105	100		
120	51.7	26.2	66.2

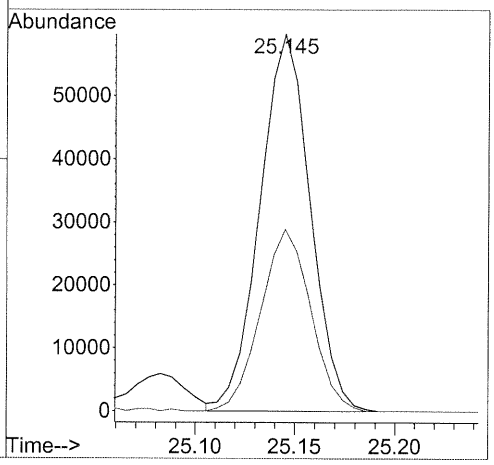


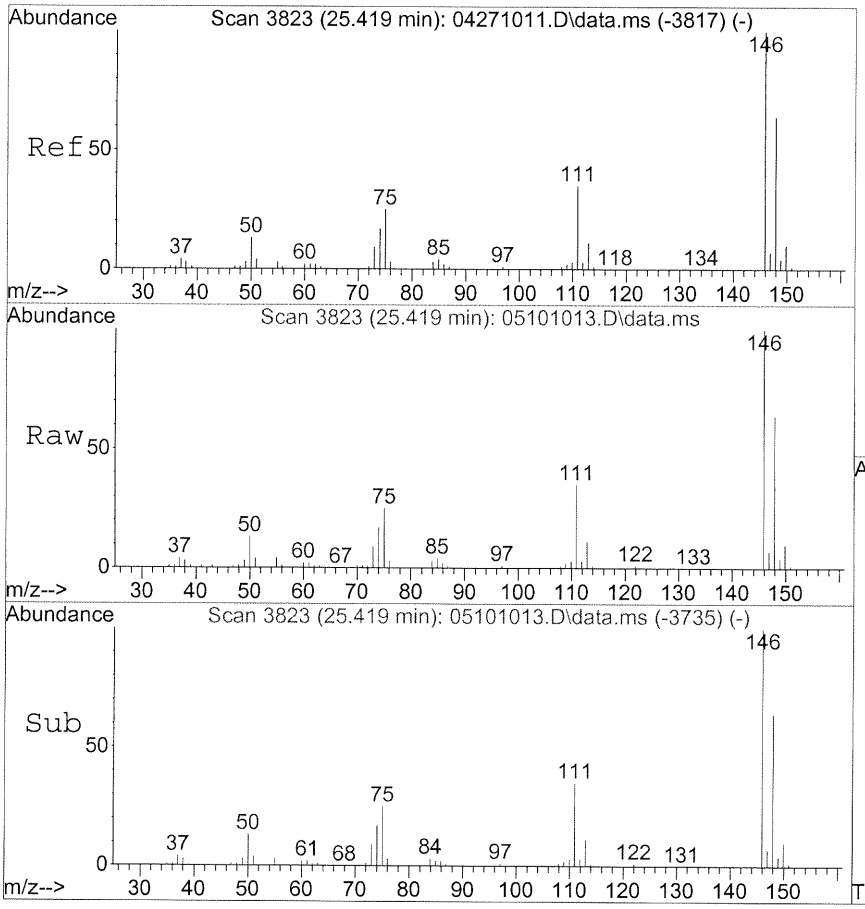


#82
1,2,4-Trimethylbenzene
Concen: 1.04 ng
RT: 25.15 min Scan# 3775
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:105 Resp: 104821

Ion	Ratio	Lower	Upper
105	100		
120	48.0	30.1	70.1

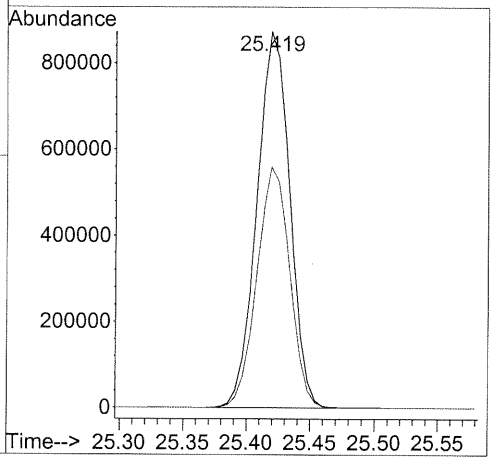


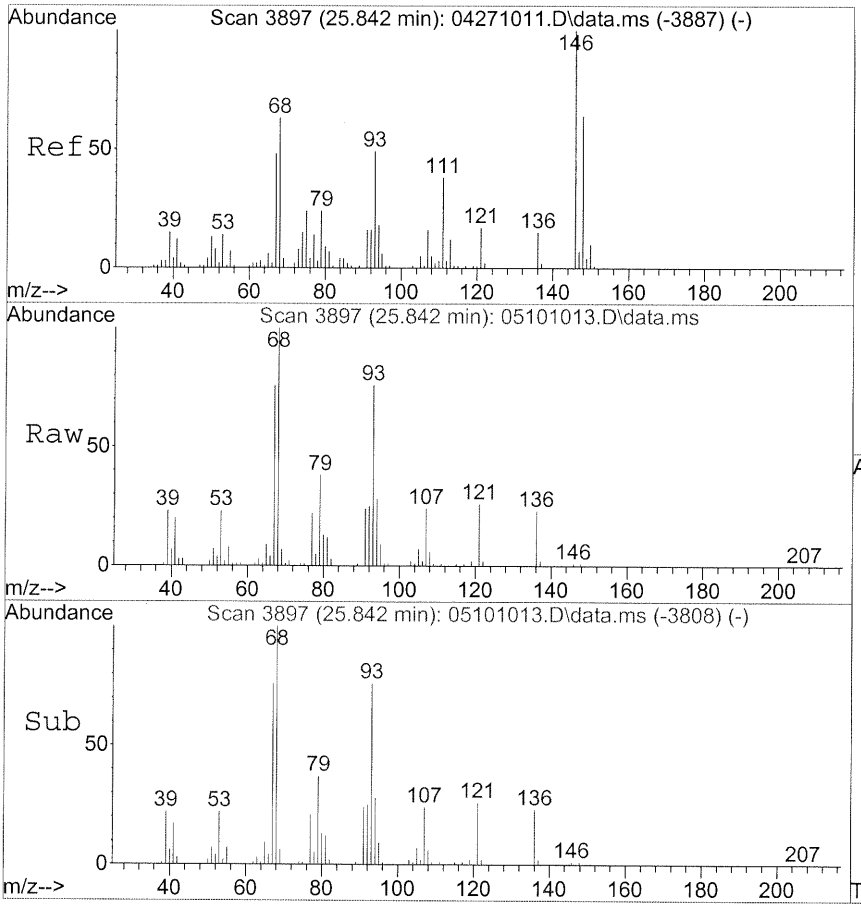


#86
1,4-Dichlorobenzene
Concen: 24.75 ng
RT: 25.42 min Scan# 3823
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:146 Resp: 1574043

Ion	Ratio	Lower	Upper
146	100		
148	64.0	43.8	83.8

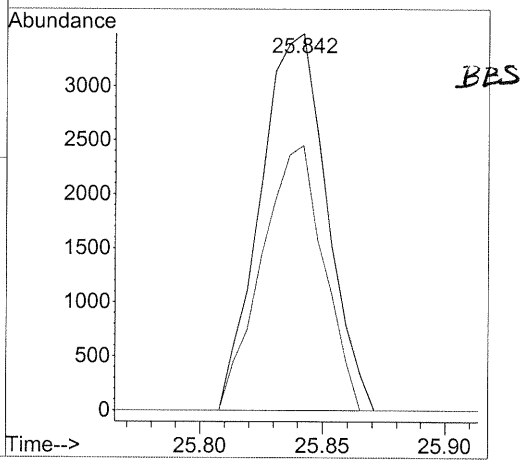


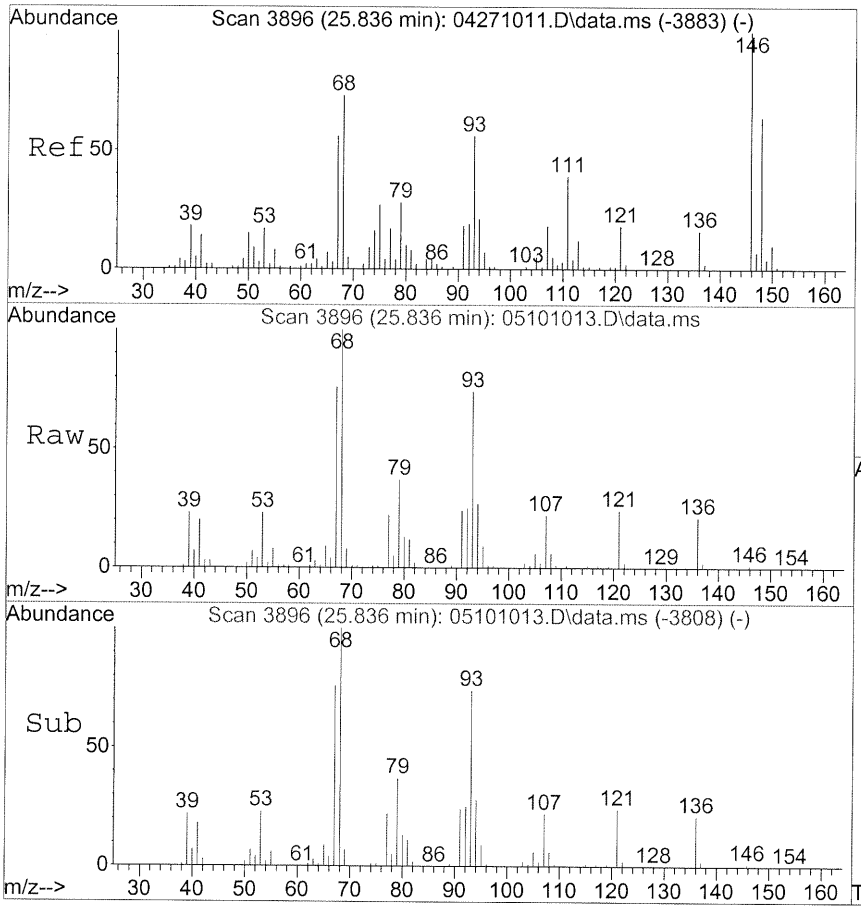


#90
1,2-Dichlorobenzene
Concen: 0.11 ng
RT: 25.84 min Scan# 3897
Delta R.T. 0.006 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:146 Resp: 6512

Ion	Ratio	Lower	Upper
146	100		
148	65.7	43.6	83.6

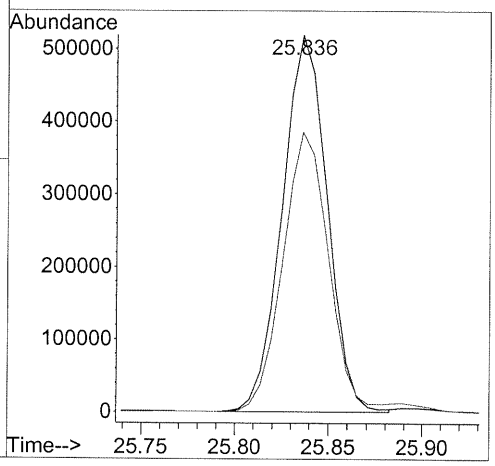




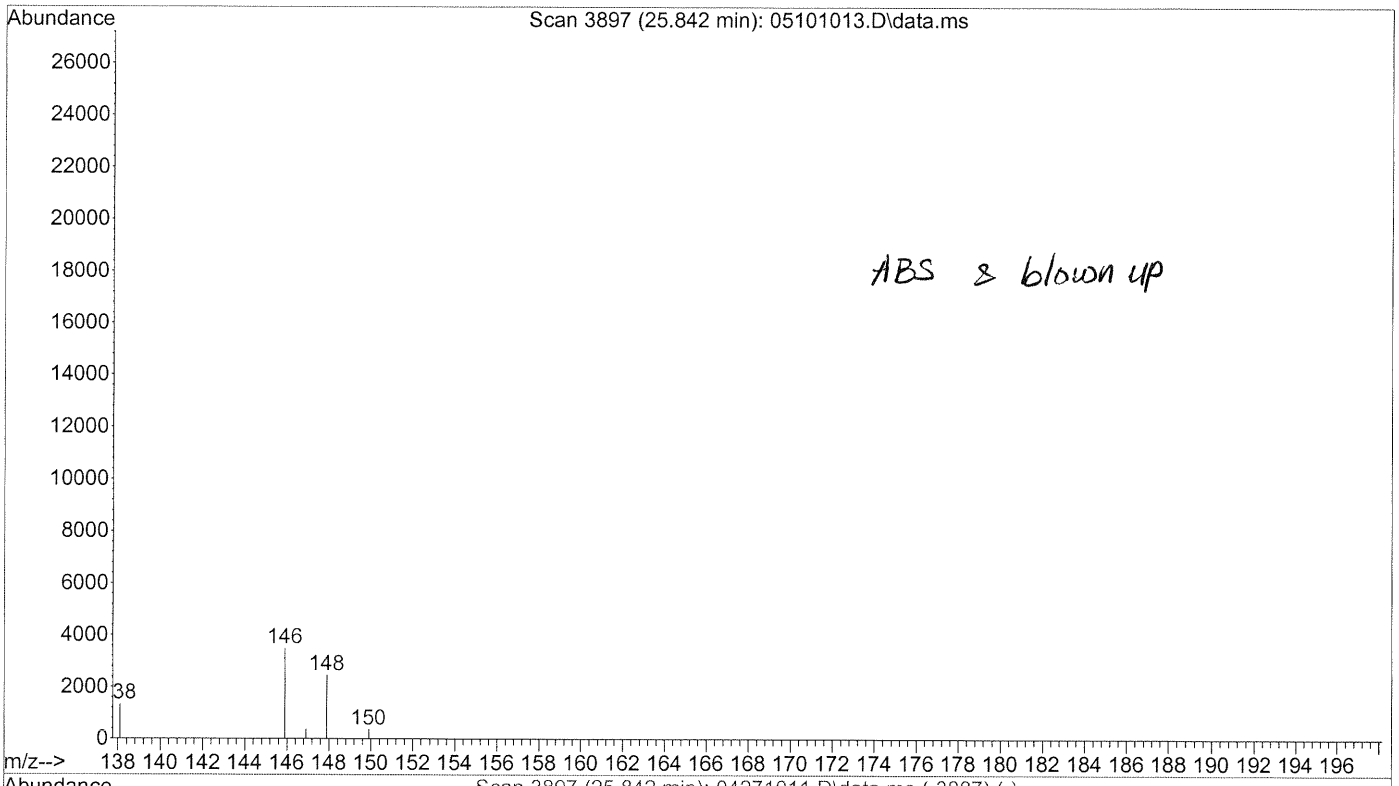
#91
d-Limonene
Concen: 24.67 ng
RT: 25.84 min Scan# 3896
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

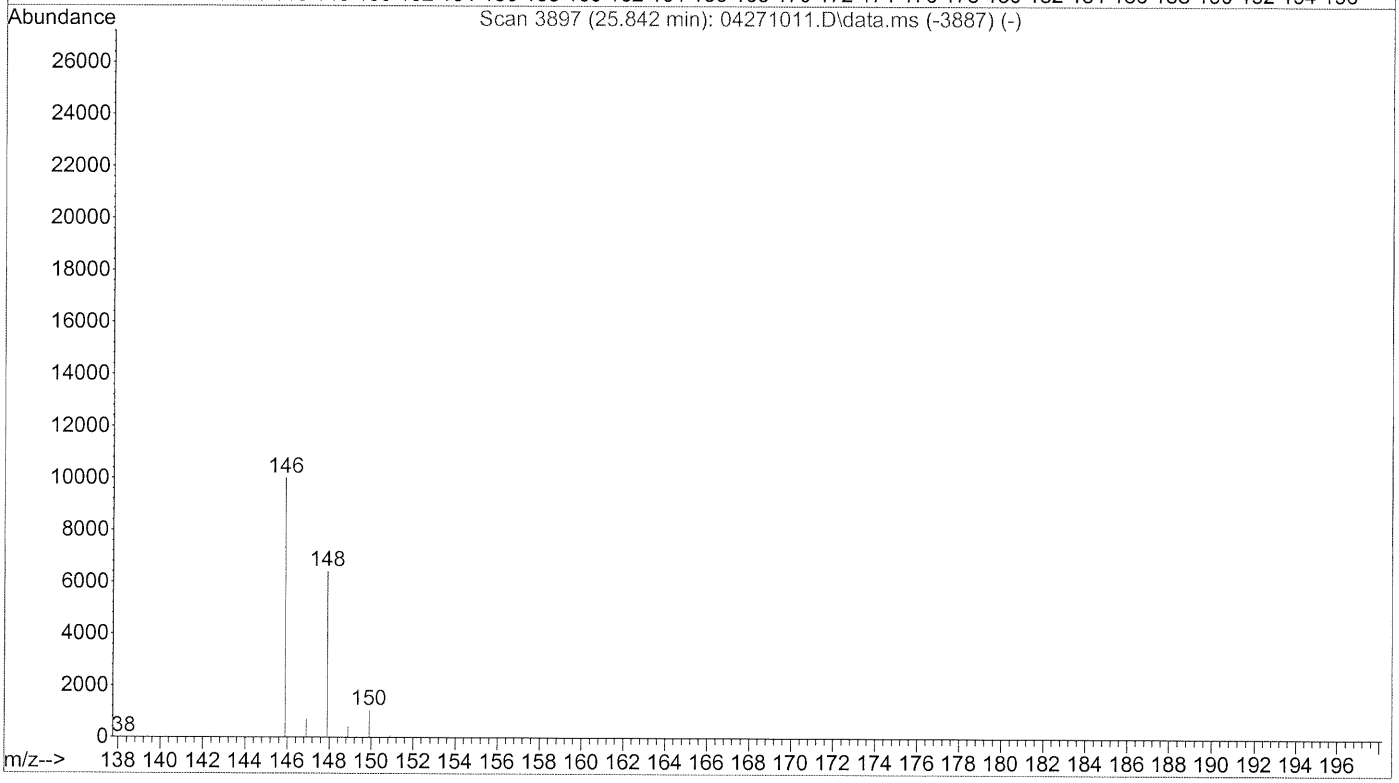
Tgt Ion: 68 Resp: 861498

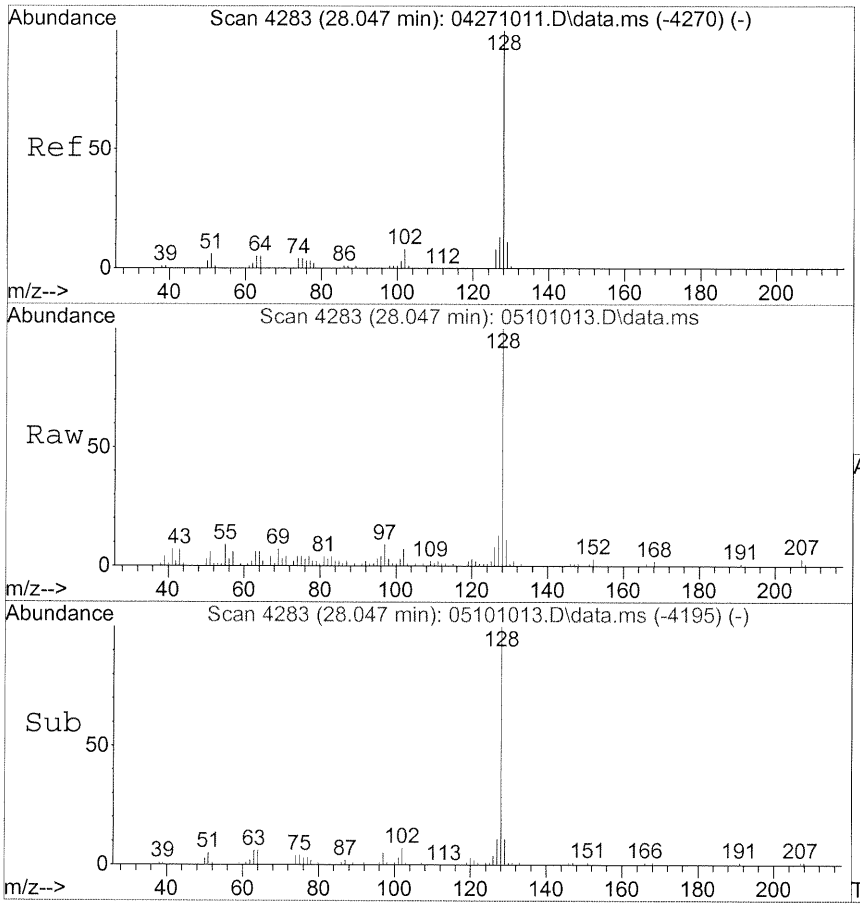
Ion	Ratio	Lower	Upper
68	100		
93	77.8	42.0	82.0



File :J:\MS09\Data\2010_05\10\05101013.D
Operator : WA
Acquired : 10 May 2010 20:48 using AcqMethod TO15LOW.M
Instrument : MS09
Sample Name: P1001603-001 Dup(1000mL)
Misc Info :
Vial Number: 5



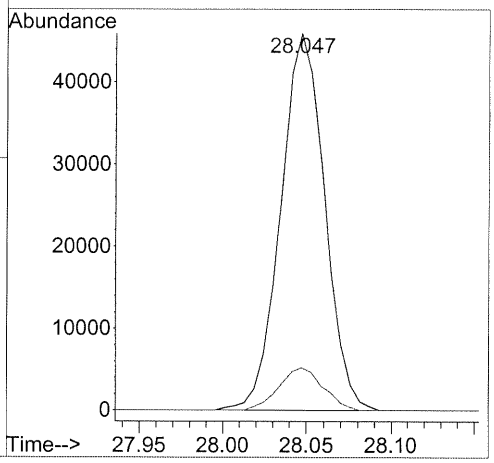




#95
Naphthalene
Concen: 0.65 ng
RT: 28.05 min Scan# 4283
Delta R.T. 0.000 min
Lab File: 05101013.D
Acq: 10 May 2010 20:48

Tgt Ion:128 Resp: 82720

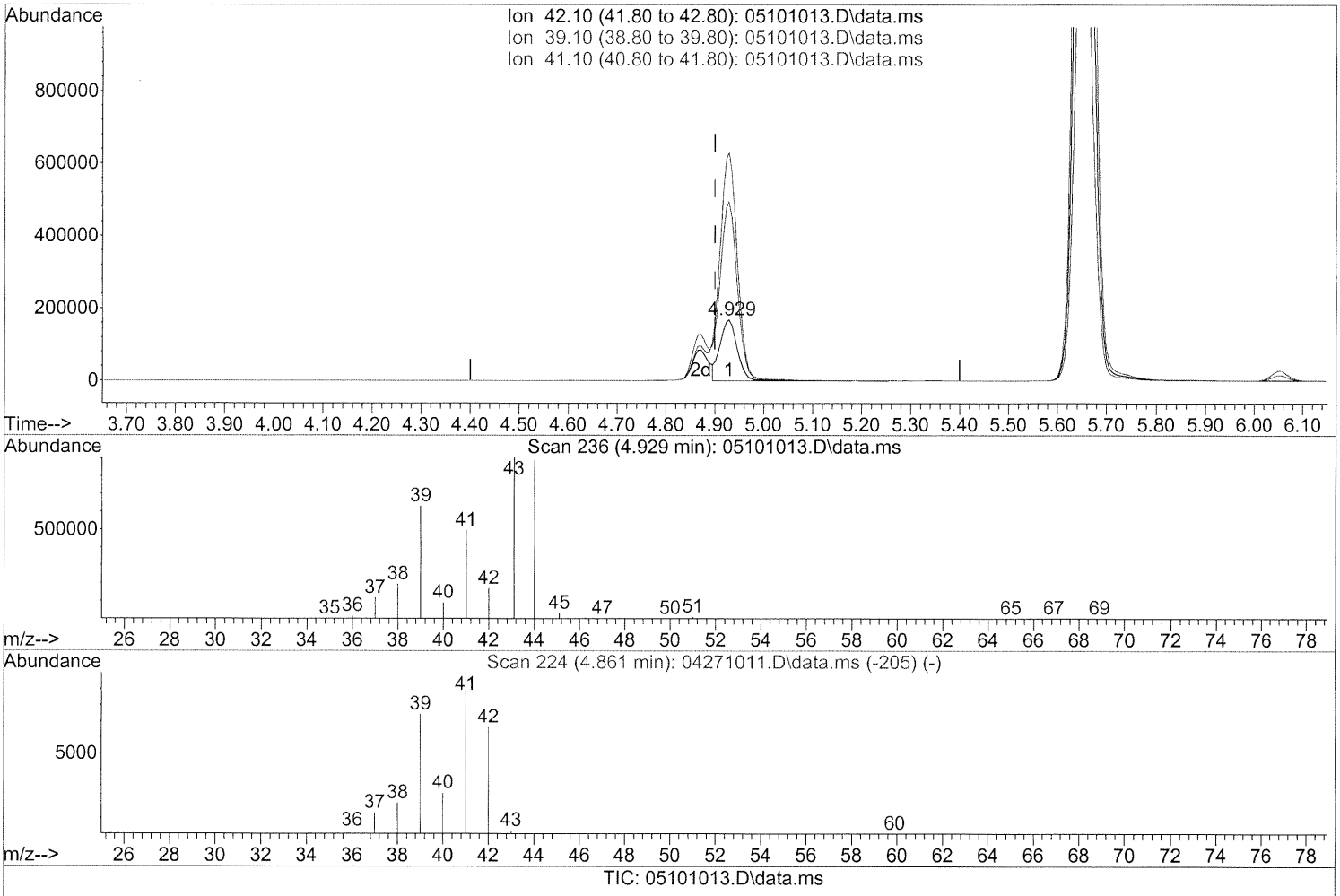
Ion	Ratio	Lower	Upper
128	100		
129	11.3	0.0	31.1



Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101013.D\data.ms

(2) Propene (T)

4.929min (+0.029) 19.49ng

response 416743

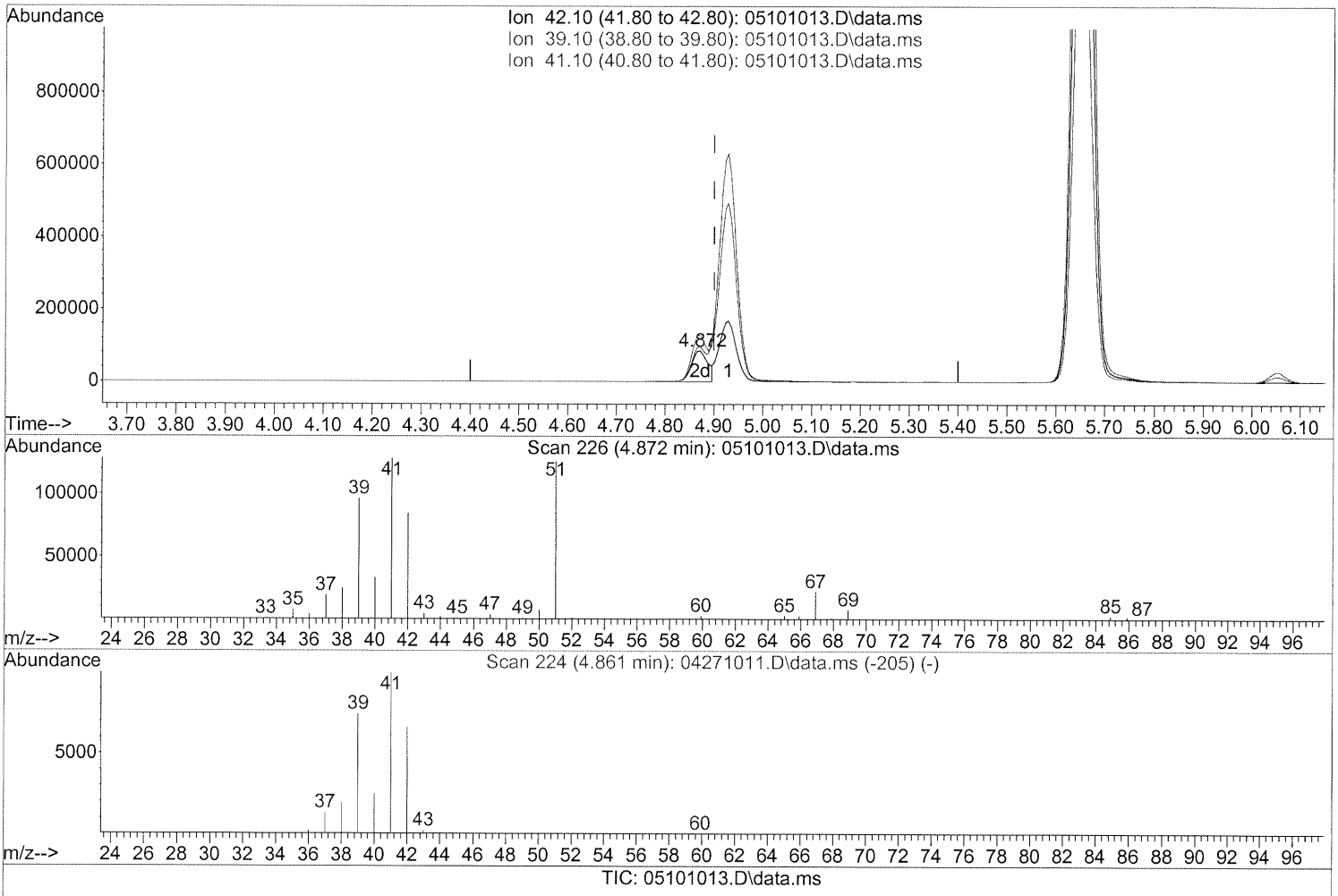
MP

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	389.11#
41.10	153.90	299.67#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



(2) Propene (T)

4.872min (-0.028) 9.13ng m

response 195170

Ion	Exp%	Act%
42.10	100	100
39.10	112.20	830.85#
41.10	153.90	639.87#
0.00	0.00	0.00

MP→IC

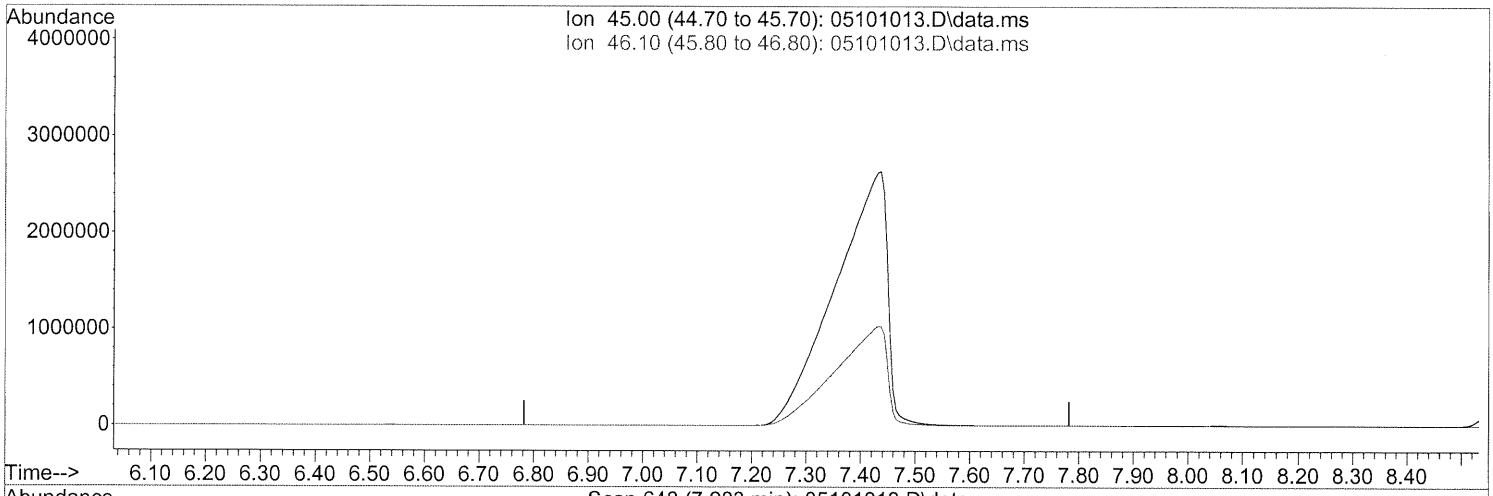
5/16/10

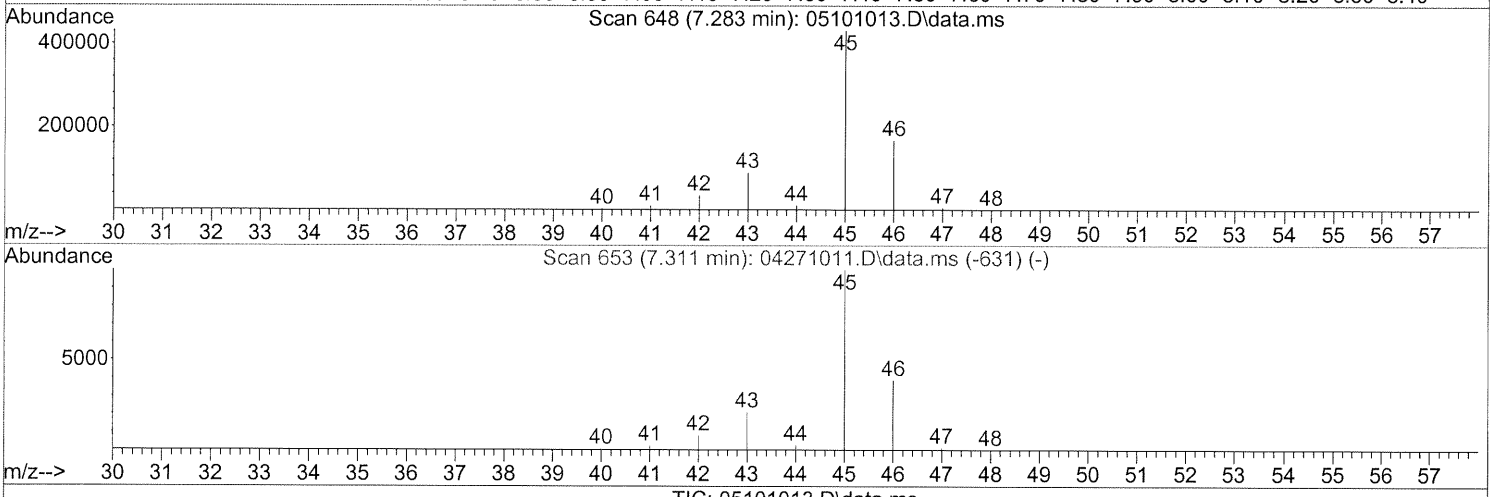
5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration





TIC: 05101013.D\data.ms

(10) Ethanol (T)

7.283min (-7.283) 0.00ng

response 0

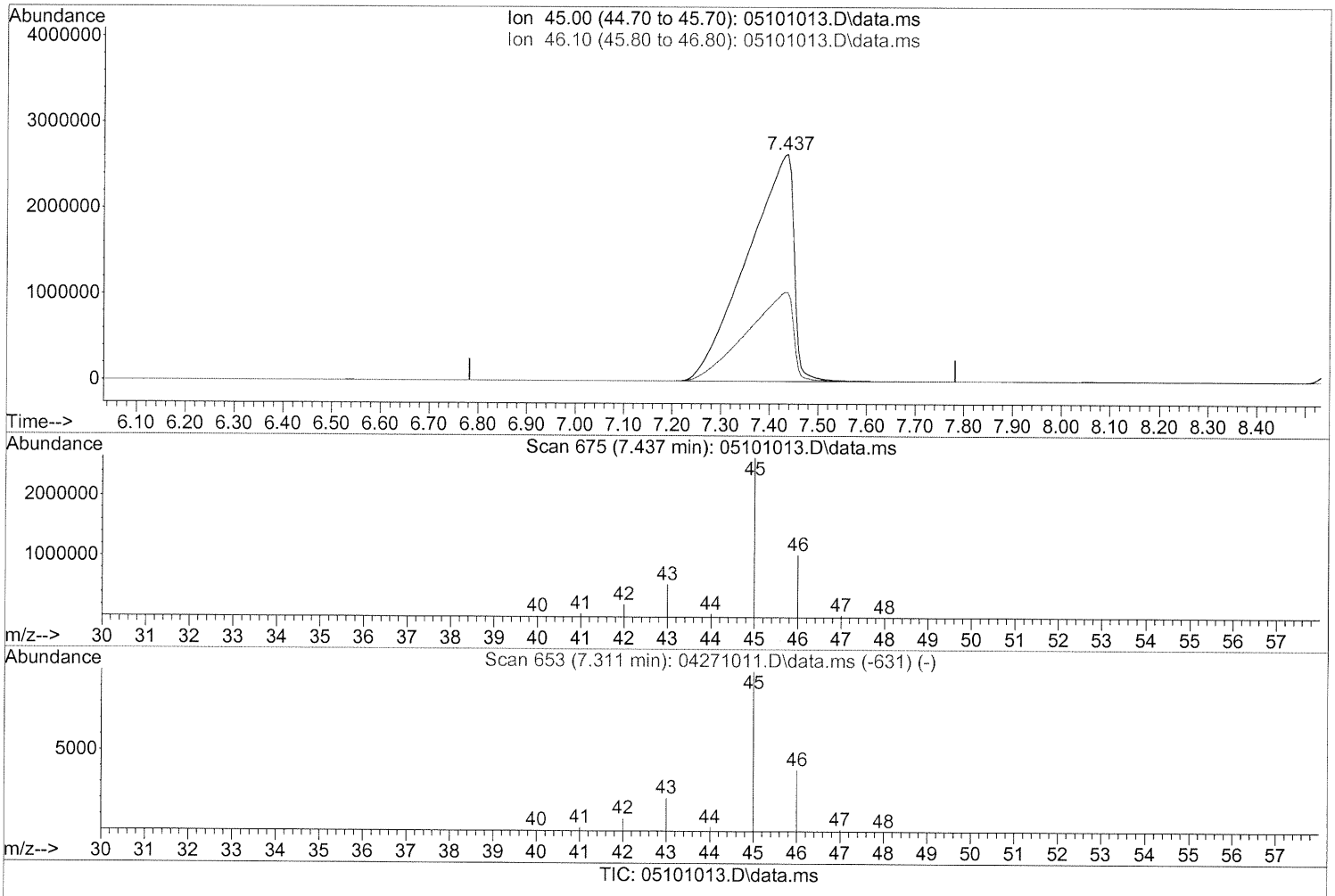
MP

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101013.D\data.ms

(10) Ethanol (T)

7.437min (+0.154) 1351.35ng m

response 17596600

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

MP-7 IC

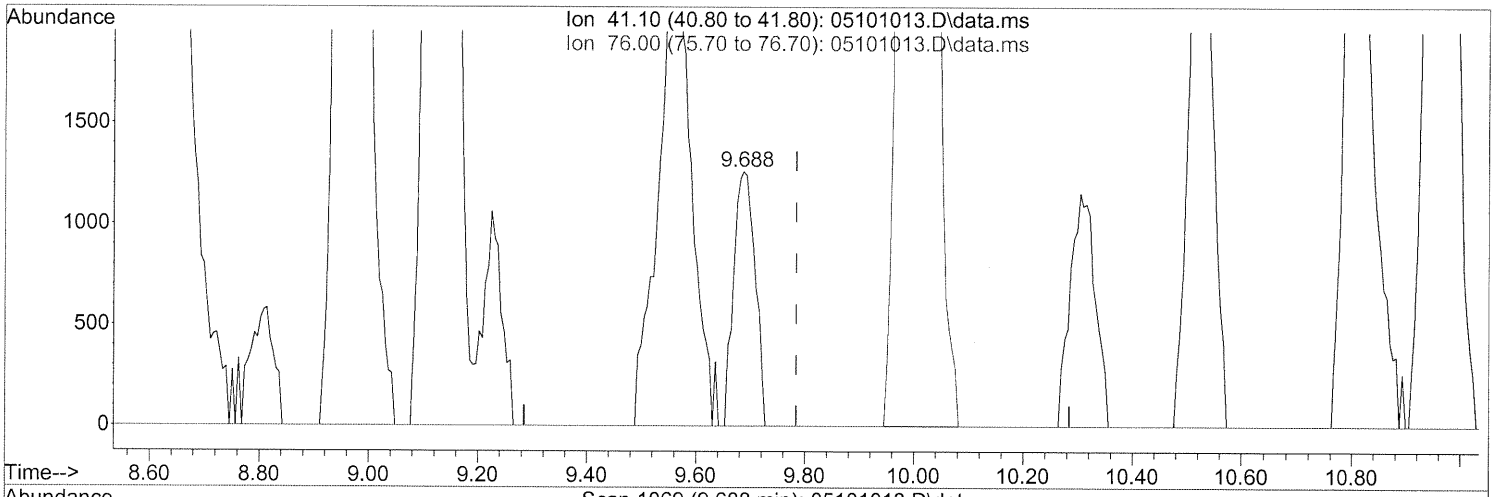
5/16/10

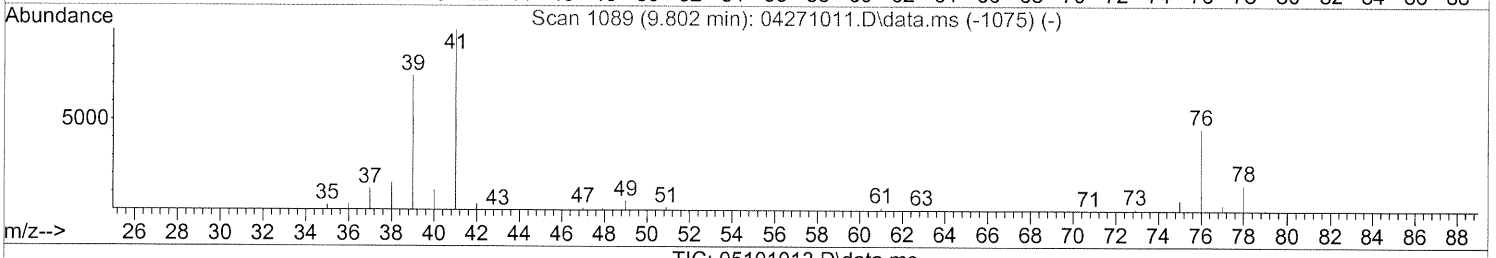
5/19/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration





TIC: 05101013.D\data.ms

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

9.688min (-0.097) 0.14ng

response 3433

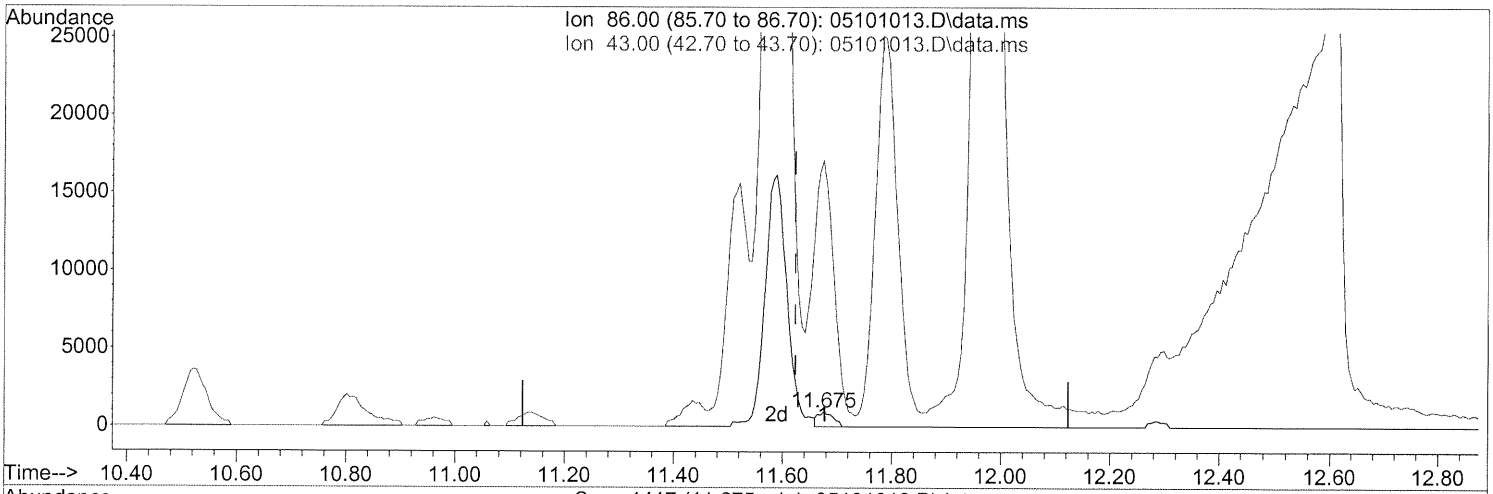
Ion	Exp%	Act%
41.10	100	100
76.00	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

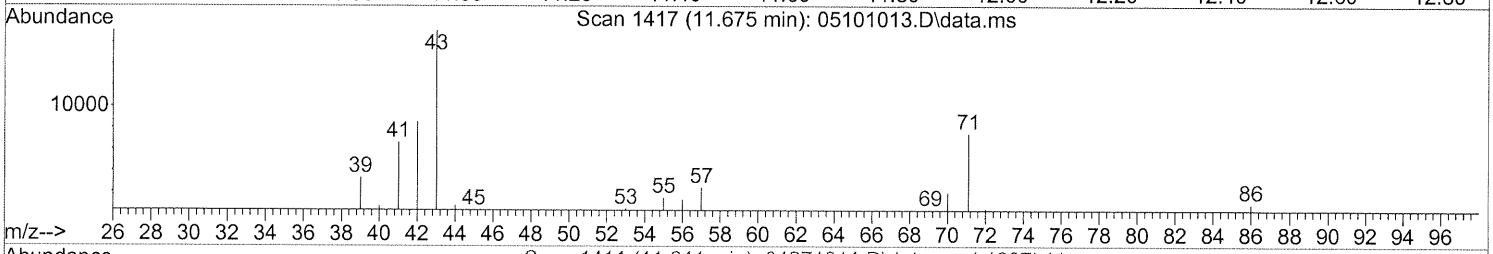
TP

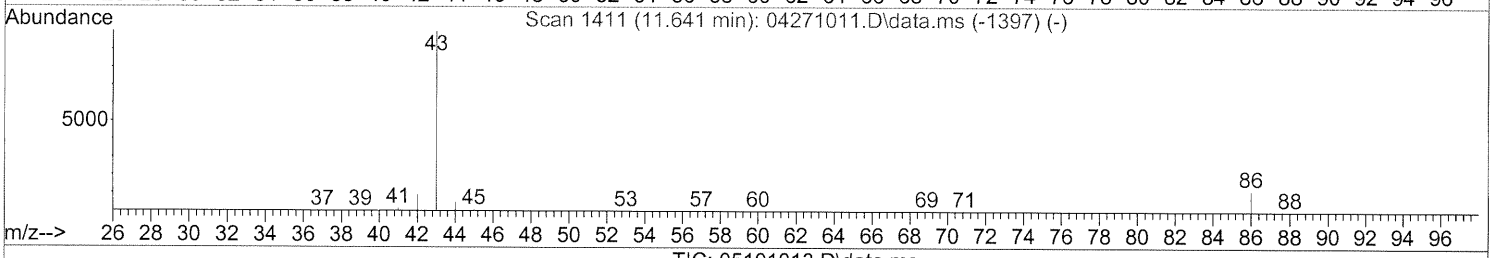
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101013.D\data.ms

(26) Vinyl Acetate (T)

11.675min (+0.052) 0.31ng

response 1806

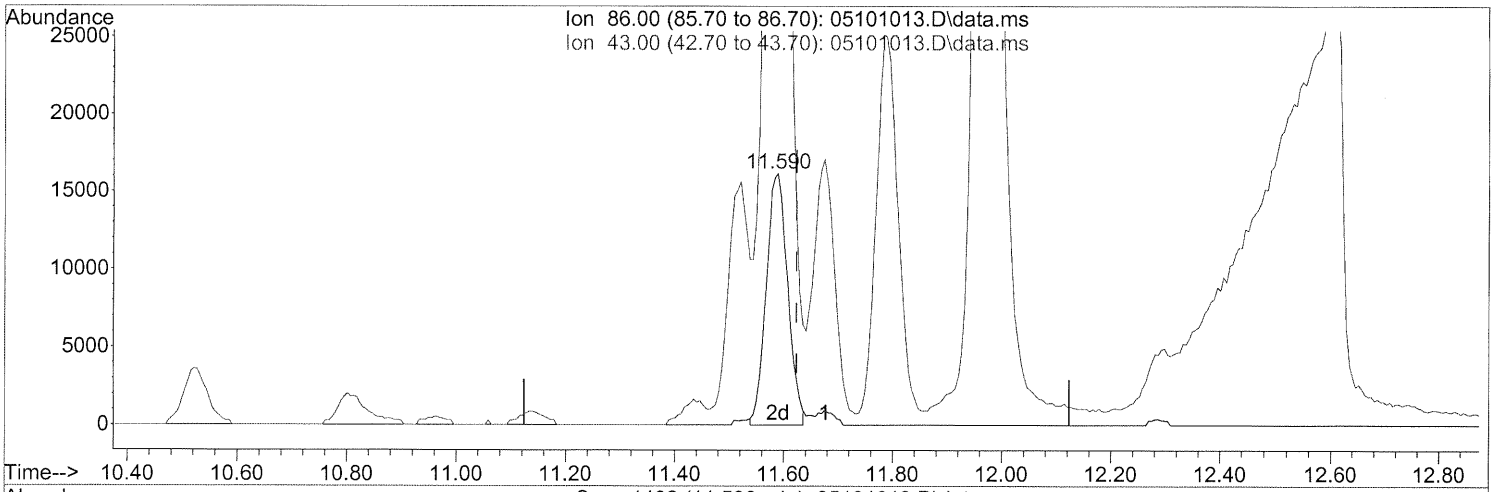
Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	2406.81#
0.00	0.00	0.00
0.00	0.00	0.00

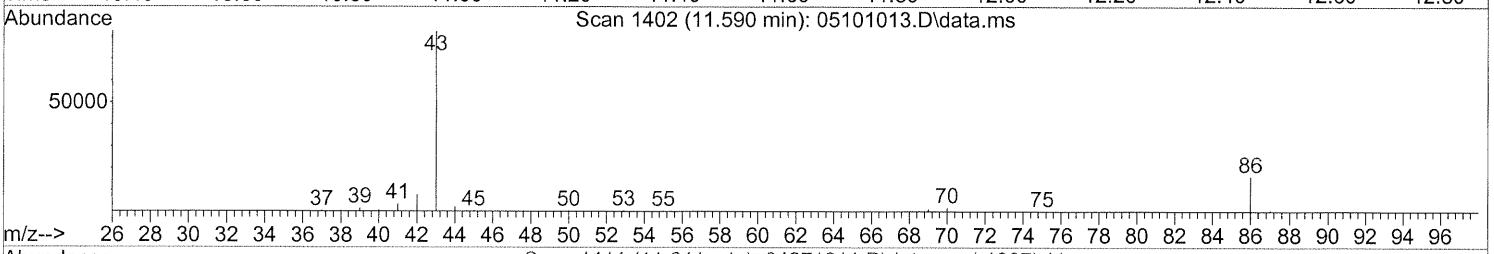
MTP

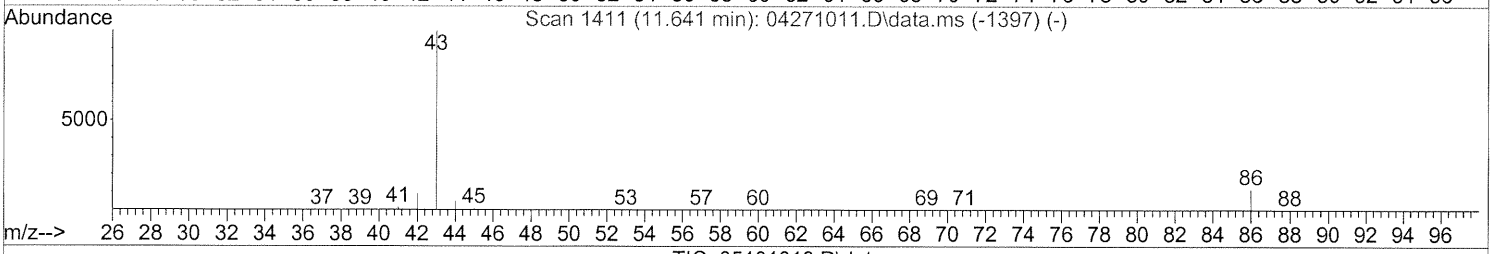
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101013.D\data.ms

(26) Vinyl Acetate (T)

11.590min (-0.034) 7.59ng m

response 43943

Ion	Exp%	Act%
86.00	100	100
43.00	1305.50	98.92#
0.00	0.00	0.00
0.00	0.00	0.00

MP → IC

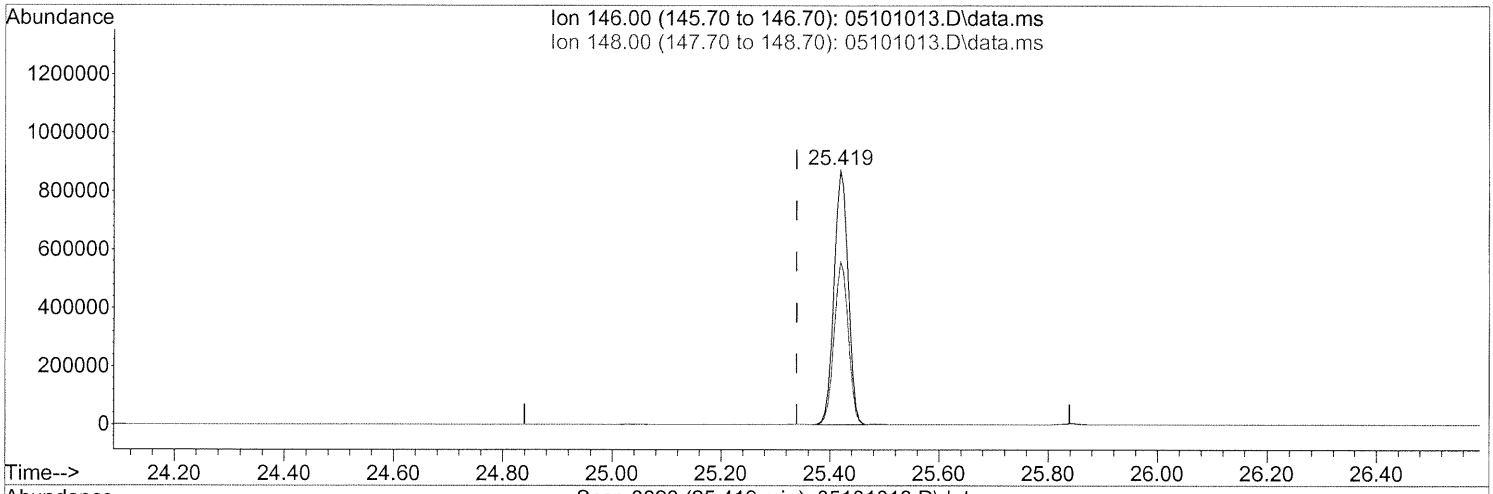
5/16/10

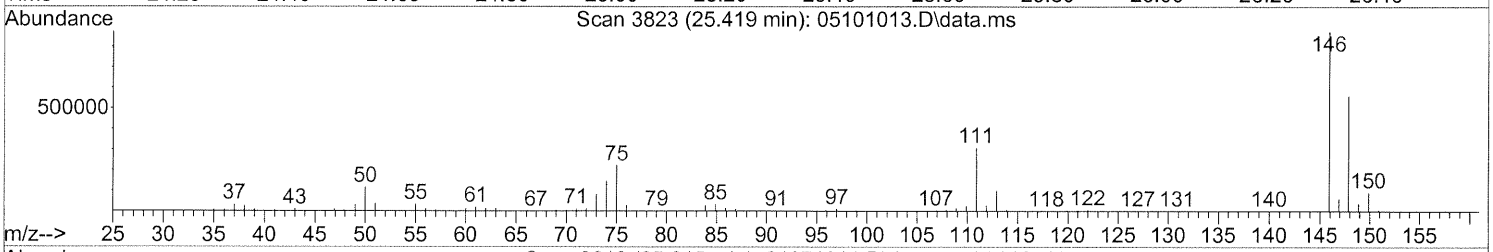
5/17/10

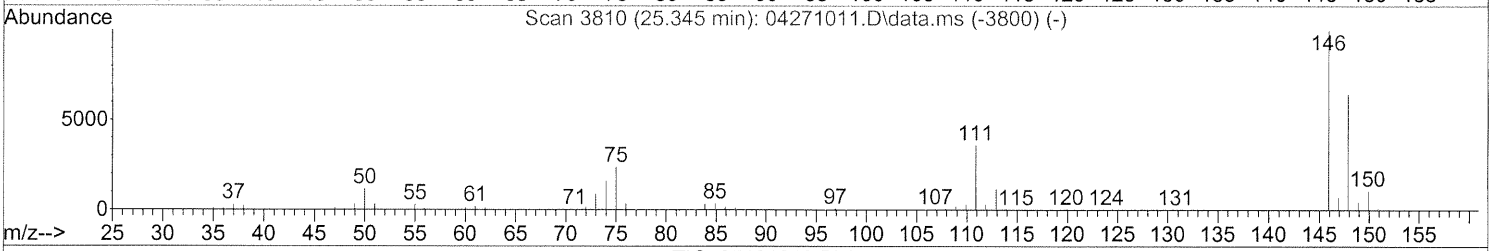
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101013.D\data.ms

(85) 1,3-Dichlorobenzene (T)

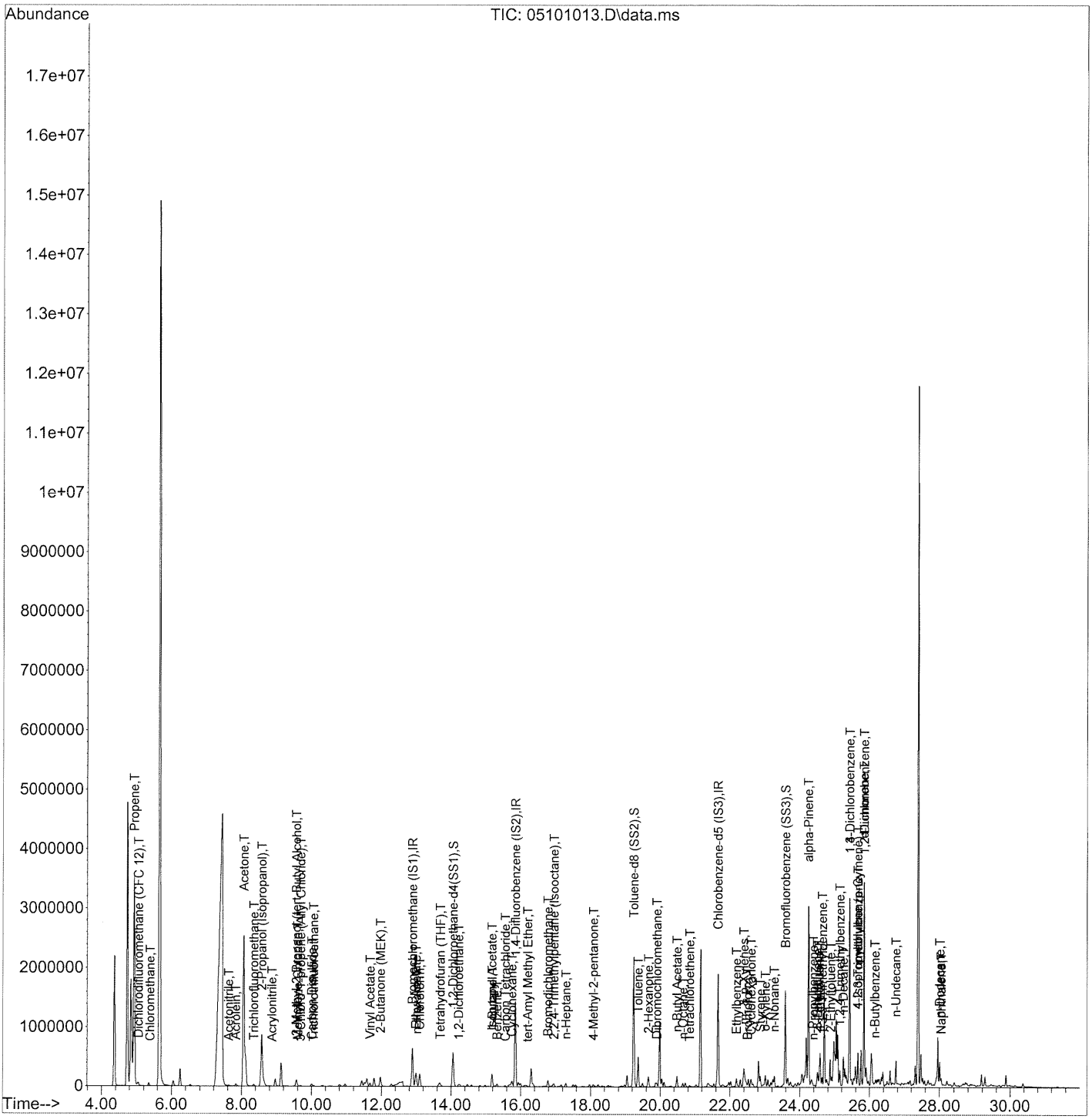
25.419min (+0.080) 25.66ng

response 1574043

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	64.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	377357	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.85	114	1774551	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.65	82	752672	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	559160	24.551	ng		0.00
Spiked Amount 25.000			Recovery =	98.20%			
57) Toluene-d8 (SS2)	19.24	98	1866911	24.592	ng		0.00
Spiked Amount 25.000			Recovery =	98.36%			
73) Bromofluorobenzene (SS3)	23.59	174	645224	24.265	ng		0.00
Spiked Amount 25.000			Recovery =	97.04%			
Target Compounds							Qvalue
2) Propene	4.93	42	416743	19.494	ng	#	1
3) Dichlorodifluoromethan...	5.05	85	60546	1.204	ng		100
4) Chloromethane	5.38	50	8522	0.280	ng		97
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	1335	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.13	54	1616	N.D.			
8) Bromomethane	6.63	94	676	N.D.			
9) Chloroethane	6.99	64	90	N.D.			
10) Ethanol	0.00	45	0	N.D.			
11) Acetonitrile	7.63	41	16496	0.523	ng		100
12) Acrolein	7.84	56	43063	3.353	ng		99
13) Acetone	8.06	58	1660660	99.802	ng	#	84
14) Trichlorofluoromethane	8.35	101	29920	0.654	ng		100
15) 2-Propanol (Isopropanol)	8.58	45	1867368	38.518	ng		99
16) Acrylonitrile	8.86	53	2811	0.111	ng	#	74
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.56	59	46865	0.819	ng	#	1
19) Methylene Chloride	9.60	84	4748	0.190	ng	#	73
20) 3-Chloro-1-propene (Al...	9.69	41	3433	0.136	ng	#	42
21) Trichlorotrifluoroethane	10.06	151	6869	0.300	ng	#	76
22) Carbon Disulfide	10.01	76	78767	0.974	ng		99
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	11.50	73	1119	N.D.			
26) Vinyl Acetate	11.68	86	1806	0.312	ng	#	1
27) 2-Butanone (MEK)	11.97	72	75133	4.916	ng	#	74
28) cis-1,2-Dichloroethene	12.61	61	1725	N.D.			
29) Diisopropyl Ether	12.99	87	1167	N.D.			
30) Ethyl Acetate	12.99	61	48461	5.970	ng		91
31) n-Hexane	13.01	57	36994	0.956	ng	#	97

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.10	83	230646	5.609 ng		99
34) Tetrahydrofuran (THF)	13.69	72	8472	0.571 ng	#	11
35) Ethyl tert-Butyl Ether	13.81	87	287	N.D.		
36) 1,2-Dichloroethane	14.22	62	35652	1.155 ng		100
38) 1,1,1-Trichloroethane	14.63	97	565	N.D.		
39) Isopropyl Acetate	15.17	61	2197	0.161 ng	#	1
40) 1-Butanol	15.18	56	179203	8.373 ng	#	74
41) Benzene	15.32	78	52377	0.518 ng		100
42) Carbon Tetrachloride	15.55	117	11798	0.380 ng		100
43) Cyclohexane	15.75	84	50332	1.338 ng	#	79
44) tert-Amyl Methyl Ether	16.20	73	7558	0.111 ng	#	46
45) 1,2-Dichloropropane	16.53	63	1219	N.D.		
46) Bromodichloromethane	16.78	83	85397	2.815 ng		99
47) Trichloroethene	16.86	130	718	N.D.		
48) 1,4-Dioxane	16.82	88	1621	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	59554	0.642 ng		94
50) Methyl Methacrylate	17.11	100	775	N.D.		
51) n-Heptane	17.30	71	19804	0.824 ng		88
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.08	58	14913	0.780 ng		74
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	476377	4.449 ng		99
59) 2-Hexanone	19.67	43	64760	1.429 ng		87
60) Dibromochloromethane	19.91	129	37356	1.460 ng		99
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	152509	2.948 ng		93
63) n-Octane	20.66	57	11211	0.584 ng	#	84
64) Tetrachloroethene	20.84	166	9197	0.275 ng		97
65) Chlorobenzene	21.71	112	2010	N.D.		
66) Ethylbenzene	22.19	91	132969	1.133 ng		95
67) m- & p-Xylenes	22.40	91	282764	3.050 ng		93
68) Bromoform	22.51	173	5010	0.208 ng		98
69) Styrene	22.87	104	112490	1.542 ng		94
70) o-Xylene	23.01	91	110116	1.165 ng		93
71) n-Nonane	23.27	43	67072	1.627 ng		78
72) 1,1,2,2-Tetrachloroethane	22.93	83	2617	N.D.		
74) Cumene	23.76	105	11410	N.D.		
75) alpha-Pinene	24.24	93	1506673	25.138 ng		93
76) n-Propylbenzene	24.38	91	26876	0.179 ng	#	89
77) 3-Ethyltoluene	24.50	105	66383	0.561 ng		98
78) 4-Ethyltoluene	24.55	105	47621	0.400 ng		91
79) 1,3,5-Trimethylbenzene	24.64	105	27290	0.281 ng		92

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101013.D
Acq On : 10 May 2010 20:48
Operator : WA
Sample : P1001603-001 Dup(1000mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

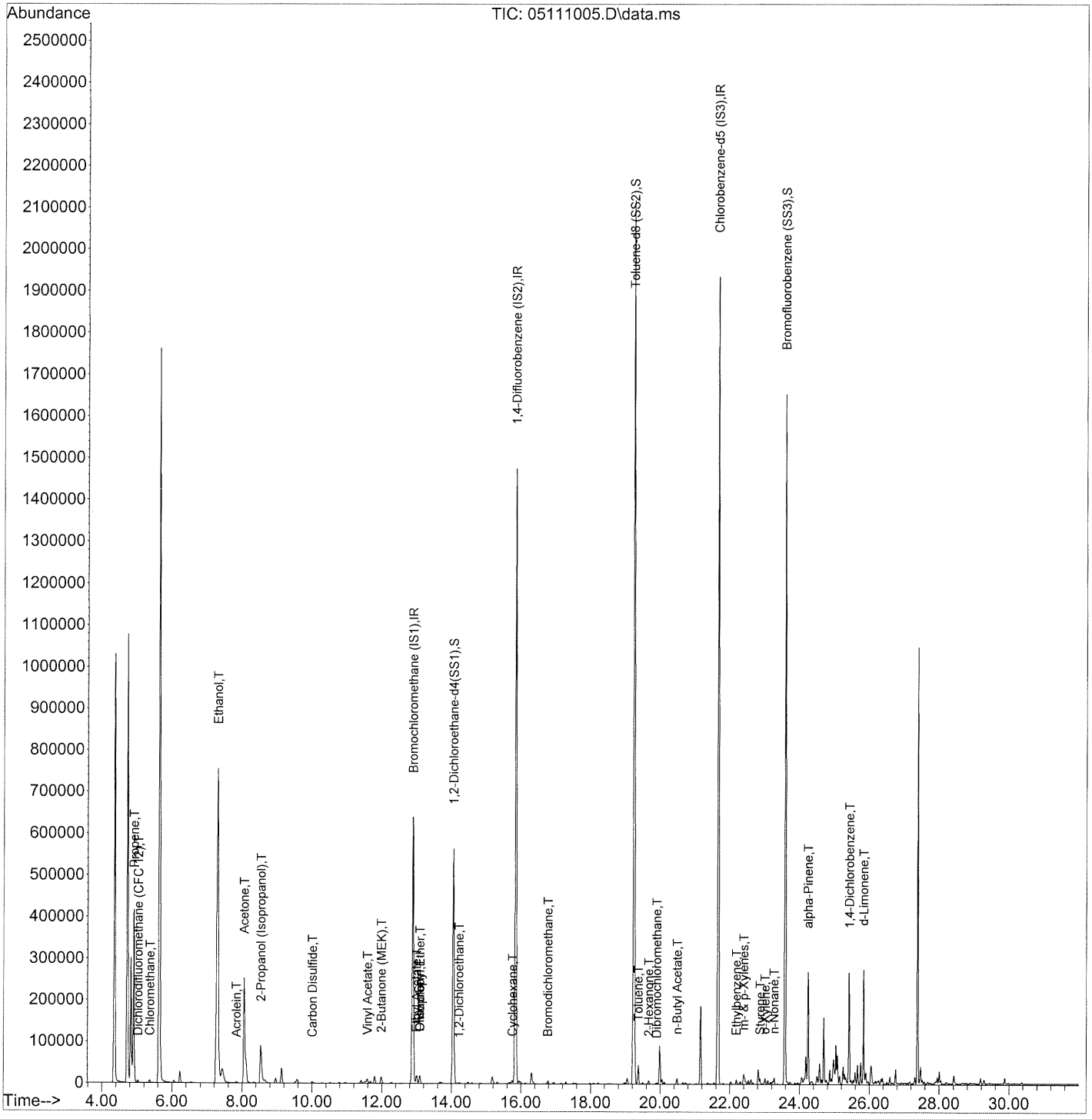
Quant Time: May 10 21:30:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	3219	N.D.			
81) 2-Ethyltoluene	24.88	105	28259	0.230	ng		95
82) 1,2,4-Trimethylbenzene	25.15	105	104821	1.042	ng		97
83) n-Decane	25.25	57	177219	3.866	ng		87
84) Benzyl Chloride	25.31	91	3207	N.D.			
85) 1,3-Dichlorobenzene	25.42	146	1574043	25.663	ng		100
86) 1,4-Dichlorobenzene	25.42	146	1574043	24.750	ng		100
87) sec-Butylbenzene	25.48	105	4985	N.D.			
88) 4-Isopropyltoluene (p-...	25.66	119	232382	1.789	ng		88
89) 1,2,3-Trimethylbenzene	25.67	105	37034	0.365	ng	#	29
90) 1,2-Dichlorobenzene	25.84	146	6512	0.111	ng		97
91) d-Limonene	25.84	68	861498	24.665	ng		79
92) 1,2-Dibromo-3-Chloropr...	26.76	157	924	N.D.			
93) n-Undecane	26.76	57	141249	3.112	ng		83
94) 1,2,4-Trichlorobenzene	27.90	180	974	N.D.			
95) Naphthalene	28.05	128	82720	0.648	ng		100
96) n-Dodecane	28.01	57	127235	2.703	ng		91
97) Hexachlorobutadiene	0.00	225	0	N.D.			
98) Cyclohexanone	22.60	55	66677	2.171	ng	#	86
99) tert-Butylbenzene	25.42	119	1781	N.D.			
100) n-Butylbenzene	26.16	91	15831	0.153	ng	#	48

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

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 17:49:20 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 17:49:20 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	378498	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1815886	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	768993	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	566734	24.809	ng		0.00
Spiked Amount 25.000			Recovery =	99.24%			✓
57) Toluene-d8 (SS2)	19.23	98	1918690	24.738	ng		0.00
Spiked Amount 25.000			Recovery =	98.96%			✓
73) Bromofluorobenzene (SS3)	23.58	174	649967	23.924	ng		0.00
Spiked Amount 25.000			Recovery =	95.68%			✓
Target Compounds							Qvalue
2) Propene	4.91	42	49454	2.306	ng	#	1
3) Dichlorodifluoromethan...	5.03	85	6271	0.124	ng	#	92
4) Chloromethane	5.37	50	2838	0.093	ng		87
10) Ethanol	7.29	45	1598680m	122.402	ng		
12) Acrolein	7.84	56	3543	0.275	ng		96
13) Acetone	8.05	58	154531	9.259	ng		87
15) 2-Propanol (Isopropanol)	8.53	45	207743	4.272	ng		97
22) Carbon Disulfide	10.01	76	8191	0.101	ng		81
26) Vinyl Acetate	11.59	86	3785	0.652	ng	#	1
27) 2-Butanone (MEK)	11.98	72	7594	0.495	ng	#	76
29) Diisopropyl Ether	13.09	87	2228	0.106	ng	#	1
30) Ethyl Acetate	12.99	61	3412	0.419	ng		93
32) Chloroform	13.09	83	21230	0.515	ng		99
36) 1,2-Dichloroethane	14.22	62	3098	0.100	ng		85
43) Cyclohexane	15.75	84	4397	0.114	ng	#	79
46) Bromodichloromethane	16.78	83	7464	0.240	ng		99
58) Toluene	19.37	91	44408	0.406	ng		98
59) 2-Hexanone	19.67	43	5388	0.116	ng		83
60) Dibromochloromethane	19.90	129	2927	0.112	ng		95
62) n-Butyl Acetate	20.48	43	12174	0.230	ng		95
66) Ethylbenzene	22.19	91	11726	0.098	ng		97
67) m- & p-Xylenes	22.40	91	24348	0.257	ng		93
69) Styrene	22.87	104	9683	0.130	ng		91
70) o-Xylene	23.01	91	9475	0.098	ng		94
71) n-Nonane	23.27	43	6382	0.151	ng		92
75) alpha-Pinene	24.24	93	131187	2.142	ng		93
86) 1,4-Dichlorobenzene	25.42	146	137052	2.109	ng		100
91) d-Limonene	25.84	68	67687	1.897	ng		79

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 17:49:20 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

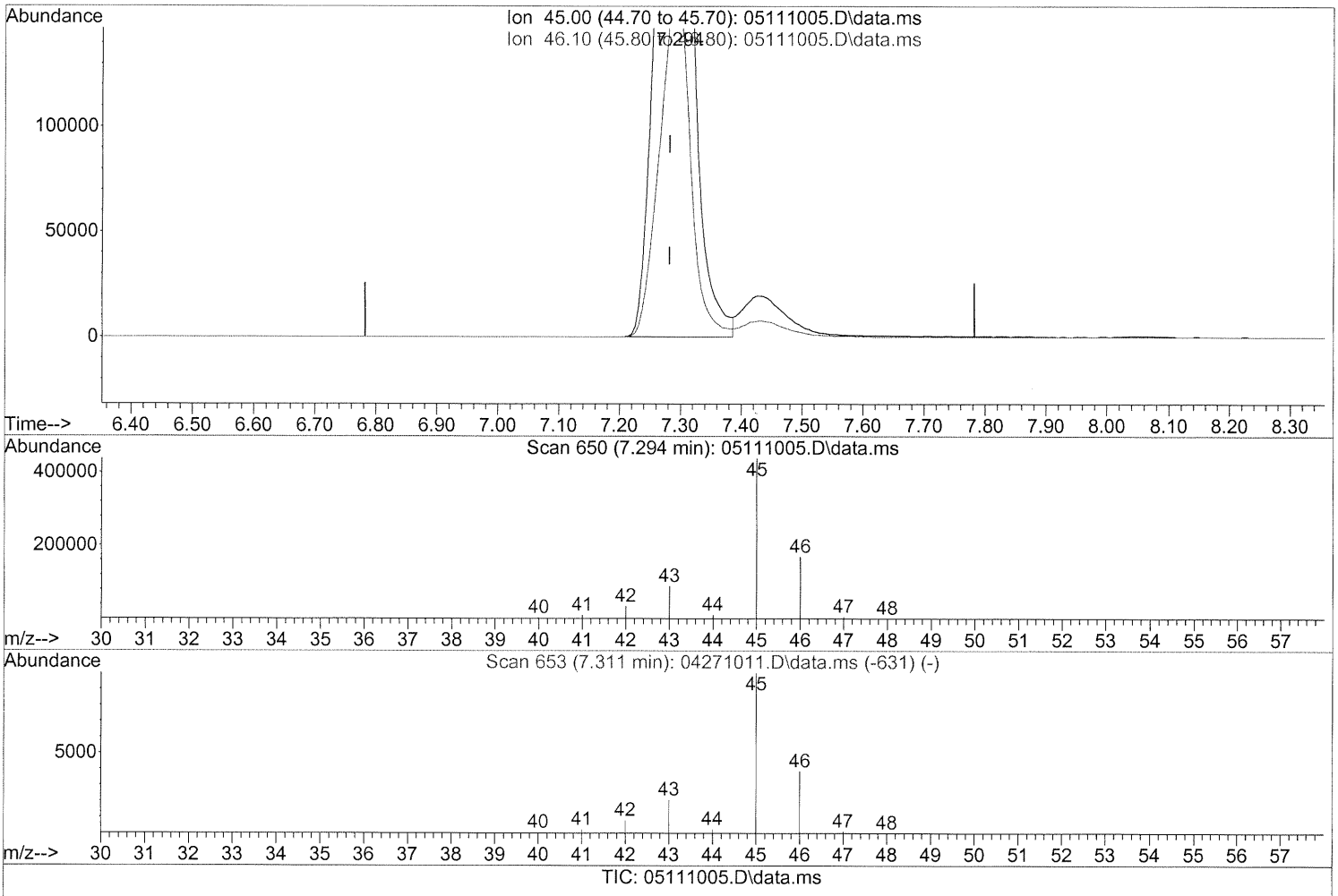
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



(10) Ethanol (T)

7.294min (+0.012) 114.81ng

response 1499472

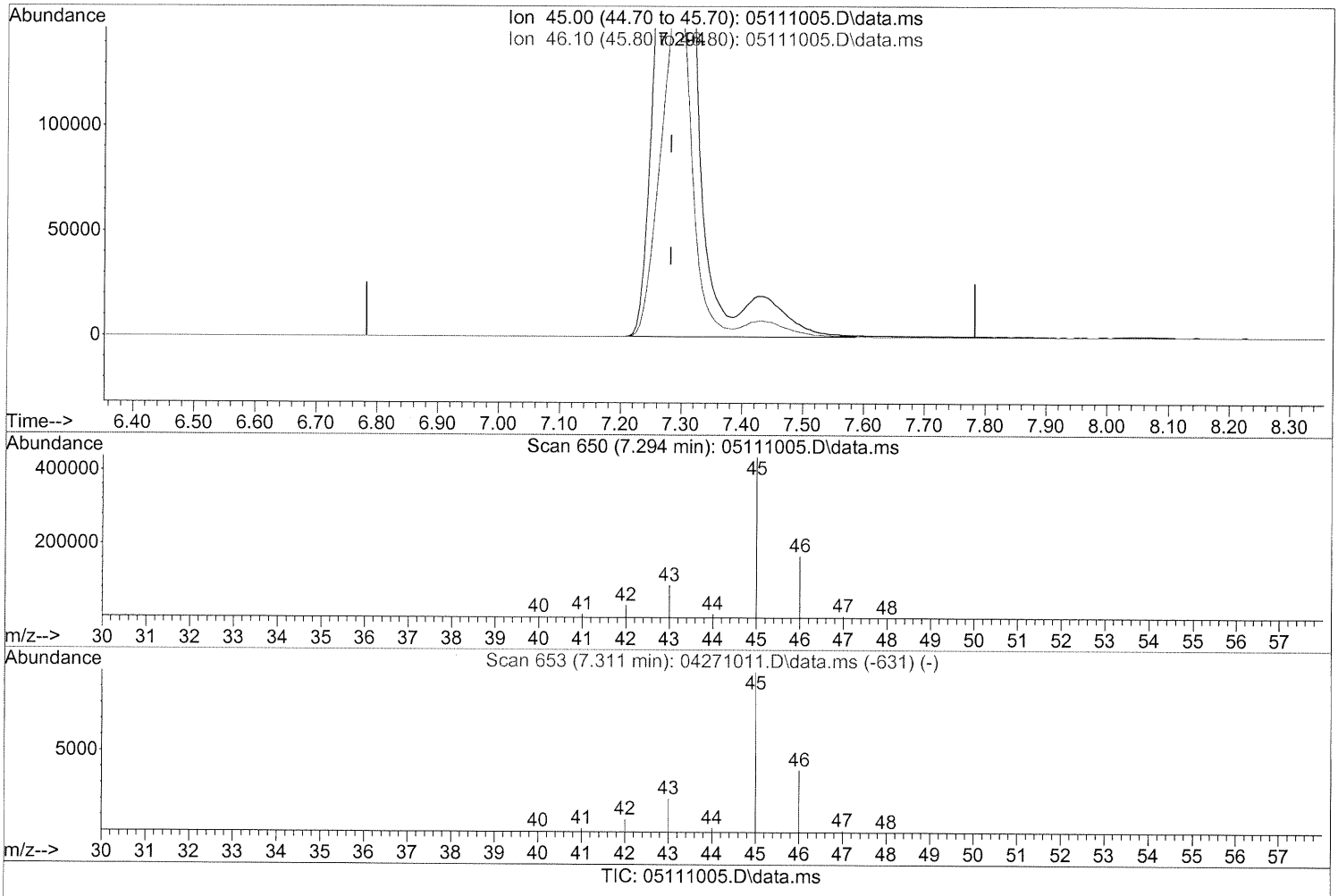
SP

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



(10) Ethanol (T)

7.294min (+0.012) 122.40ng m

response 1598680

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	36.22
0.00	0.00	0.00
0.00	0.00	0.00

SP-71C

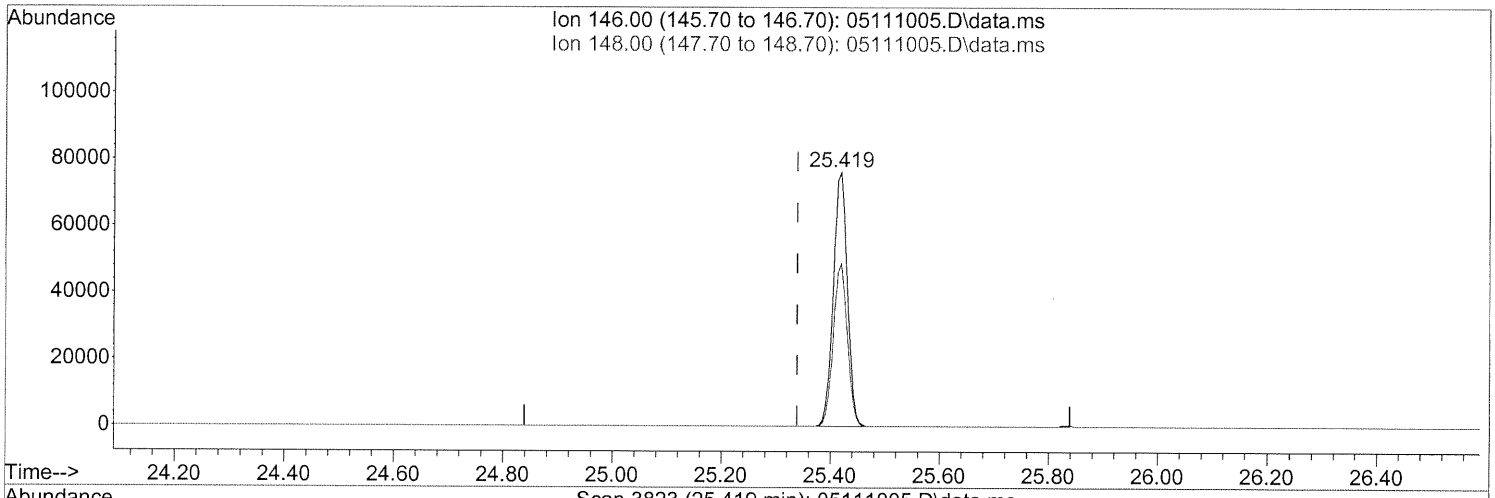
5/17/10

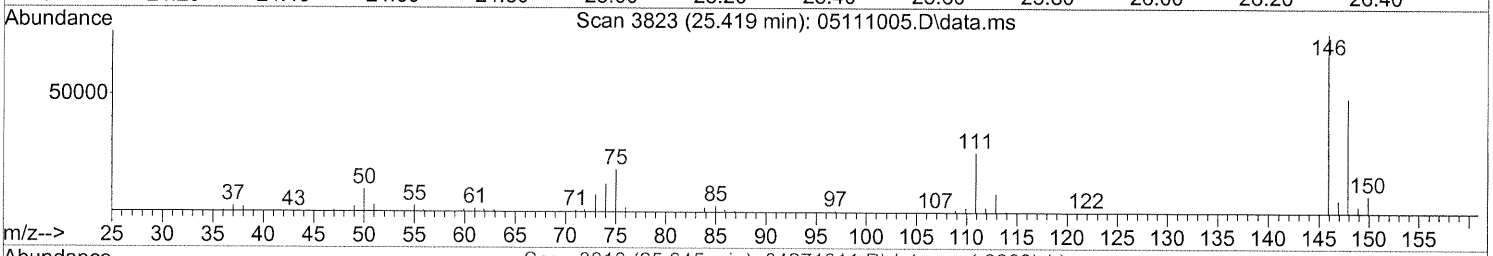
5/19/10

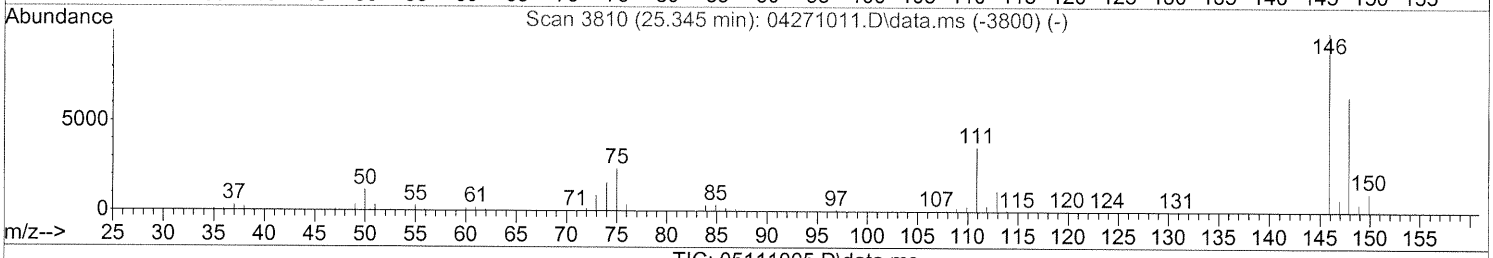
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05111005.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.419min (+0.080) 2.19ng

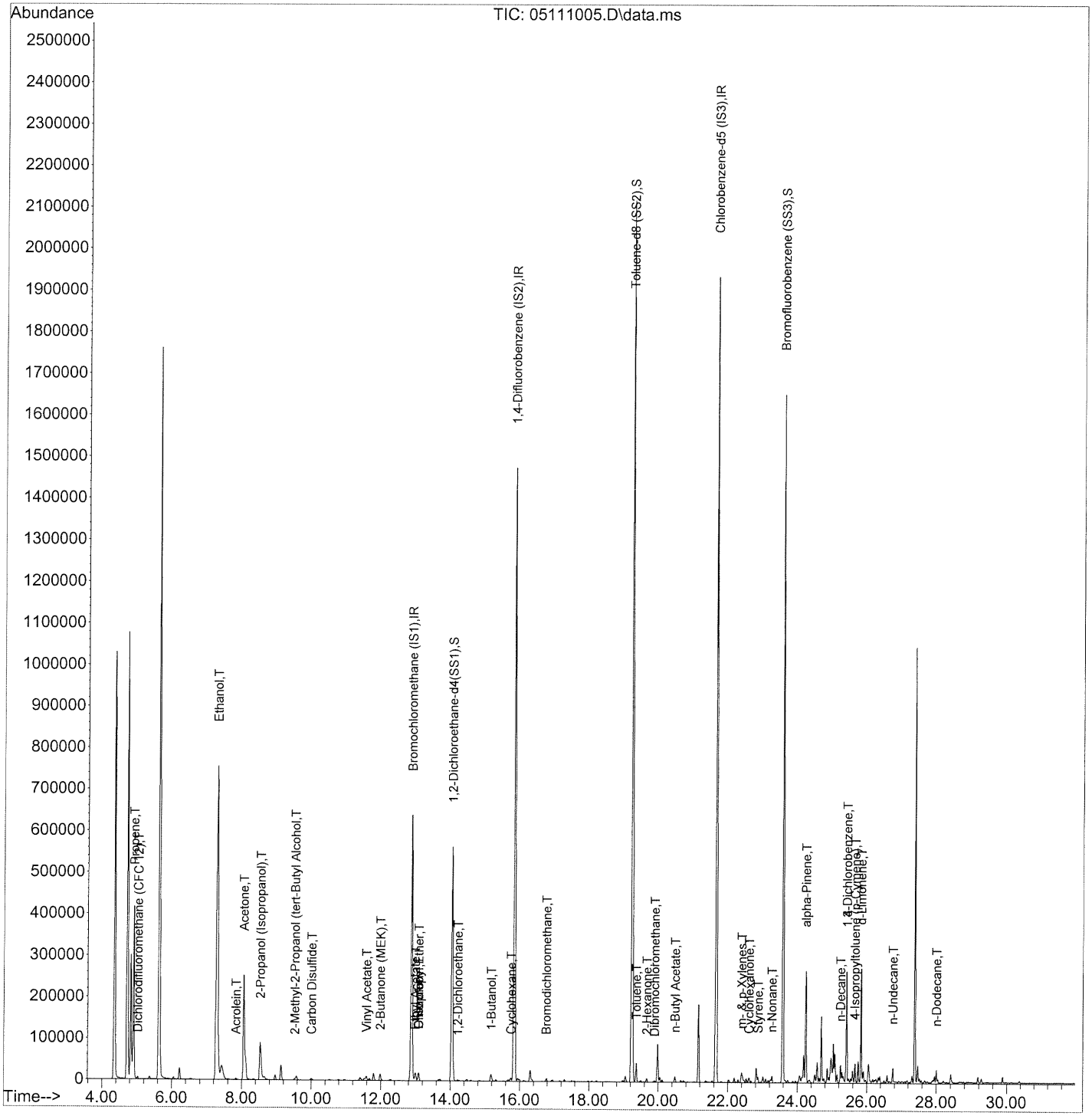
response 137052

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	63.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	378498	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.84	114	1815886	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	768993	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	566734	24.809	ng		0.00
Spiked Amount 25.000			Recovery = 99.24%				
57) Toluene-d8 (SS2)	19.23	98	1918690	24.738	ng		0.00
Spiked Amount 25.000			Recovery = 98.96%				
73) Bromofluorobenzene (SS3)	23.58	174	649967	23.924	ng		0.00
Spiked Amount 25.000			Recovery = 95.68%				
Target Compounds							Qvalue
2) Propene	4.91	42	49454	2.306	ng	#	1
3) Dichlorodifluoromethan...	5.03	85	6271	0.124	ng	#	92
4) Chloromethane	5.37	50	2838	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	7.29	45	1499472	114.806	ng		100
11) Acetonitrile	7.61	41	1315	N.D.			
12) Acrolein	7.84	56	3543	0.275	ng		96
13) Acetone	8.05	58	154531	9.259	ng		87
14) Trichlorofluoromethane	8.34	101	2629	N.D.			
15) 2-Propanol (Isopropanol)	8.53	45	207743	4.272	ng		97
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	10200	0.178	ng	#	75
19) Methylene Chloride	9.60	84	1008	N.D.			
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	10.06	151	198	N.D.			
22) Carbon Disulfide	10.01	76	8191	0.101	ng		81
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	11.59	86	3785	0.652	ng	#	1
27) 2-Butanone (MEK)	11.98	72	7594	0.495	ng	#	76
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.09	87	2228	0.106	ng	#	1
30) Ethyl Acetate	12.99	61	3412	0.419	ng		93
31) n-Hexane	13.01	57	3126	N.D.			

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.09	83	21230	0.515 ng		99
34) Tetrahydrofuran (THF)	13.71	72	569	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.22	62	3098	0.100 ng		85
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	14685	0.671 ng		79
41) Benzene	15.31	78	5279	N.D.		
42) Carbon Tetrachloride	15.54	117	808	N.D.		
43) Cyclohexane	15.75	84	4397	0.114 ng	#	79
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.78	83	7464	0.240 ng		99
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.95	57	5111	N.D.		
50) Methyl Methacrylate	17.30	100	274	N.D.		
51) n-Heptane	17.30	71	1502	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.09	58	729	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.37	91	44408	0.406 ng		98
59) 2-Hexanone	19.67	43	5388	0.116 ng		83
60) Dibromochloromethane	19.90	129	2927	0.112 ng		95
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	12174	0.230 ng		95
63) n-Octane	20.65	57	823	N.D.		
64) Tetrachloroethene	20.85	166	531	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.19	91	11726	N.D.		
67) m- & p-Xylenes	22.40	91	24348	0.257 ng		93
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.87	104	9683	0.130 ng		91
70) o-Xylene	23.01	91	9475	N.D.		
71) n-Nonane	23.27	43	6382	0.151 ng		92
72) 1,1,2,2-Tetrachloroethane	23.08	83	90	N.D.		
74) Cumene	23.75	105	885	N.D.		
75) alpha-Pinene	24.24	93	131187	2.142 ng		93
76) n-Propylbenzene	24.37	91	2139	N.D.		
77) 3-Ethyltoluene	24.50	105	5833	N.D.		
78) 4-Ethyltoluene	24.55	105	4040	N.D.		
79) 1,3,5-Trimethylbenzene	24.64	105	2461	N.D.		

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111005.D
Acq On : 11 May 2010 10:51
Operator : WA
Sample : P1001603-001 DupDil (100mL)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 12:39:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	25.04	118	989	N.D.			
81) 2-Ethyltoluene	24.88	105	2312	N.D.			
82) 1,2,4-Trimethylbenzene	25.15	105	9140	N.D.			
83) n-Decane	25.25	57	15563	0.332	ng		91
84) Benzyl Chloride	25.15	91	1005	N.D.			
85) 1,3-Dichlorobenzene	25.42	146	137052	2.187	ng		100
86) 1,4-Dichlorobenzene	25.42	146	137052	2.109	ng		100
87) sec-Butylbenzene	25.48	105	94	N.D.			
88) 4-Isopropyltoluene (p-...	25.66	119	19577	0.148	ng		88
89) 1,2,3-Trimethylbenzene	25.66	105	3094	N.D.			
90) 1,2-Dichlorobenzene	25.84	146	434	N.D.			
91) d-Limonene	25.84	68	67687	1.897	ng		79
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	26.76	57	13025	0.281	ng		93
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.			
95) Naphthalene	28.05	128	7684	N.D.			
96) n-Dodecane	28.01	57	10474	0.218	ng		92
97) Hexachlorobutadiene	0.00	225	0	N.D.			
98) Cyclohexanone	22.61	55	6193	0.197	ng	#	87
99) tert-Butylbenzene	25.04	119	1606	N.D.			
100) n-Butylbenzene	26.16	91	1293	N.D.			

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

INITIAL CALIBRATION STANDARDS

Method Path : J:\MS09\Methods\
Method File : R9042710.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Wed Apr 28 14:31:40 2010
Response Via : Initial Calibration

Calibration Files
0.1 =04271006.D 0.2 =04271007.D 0.5 =04271008.D 1.0 =04271009.D 5.0 =04271010.D 25 =04271011.D
50 =04271012.D 100 =04271013.D

		Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane...	----------ISTD----------									
2)	T	Propene	1.491	1.286	1.374	1.211	1.442	1.532	1.539	1.456	1.416	8.33
3)	T	Dichlorodifluo...	3.810	3.527	3.949	3.430	3.126	3.193	2.857	2.753	3.331	12.83
4)	T	Chloromethane	2.410	2.178	2.447	2.137	1.792	1.980	1.736	1.471	2.019	16.84
5)	T	1,2-Dichloro-1...	2.070	1.953	2.311	2.004	1.824	1.870	1.728	1.719	1.935	10.16
6)	T	Vinyl Chloride	2.393	2.246	2.674	2.306	2.152	2.226	2.054	2.041	2.262	9.07
7)	T	1,3-Butadiene	1.708	1.477	1.842	1.637	1.560	1.718	1.605	1.638	1.648	6.69
8)	T	Bromomethane	1.684	1.522	1.702	1.542	1.395	1.492	1.362	1.382	1.510	8.67
9)	T	Chloroethane	1.240	1.107	1.322	1.189	1.093	1.150	1.070	1.059	1.154	7.94
10)	T	Ethanol	0.795	0.748	0.950	0.836	0.783	0.974	0.903	0.912	0.863	9.68
11)	T	Acetonitrile	2.184	1.826	2.326	2.086	1.956	2.233	2.055	2.056	2.090	7.56
12)	T	Acrolein	1.239	0.881	0.931	0.779	0.715	0.791	0.728	0.743	0.851	20.47
13)	T	Acetone	1.275	1.149	1.302	1.117	0.990	1.042	0.961	0.983	1.102	12.01
14)	T	Trichlorofluor...	3.258	3.055	3.578	3.101	2.831	2.959	2.726	2.741	3.031	9.48
15)	T	2-Propanol (Is...	3.962	3.591	4.122	3.697	2.676	3.045	2.289	2.314	3.212	22.77
16)	T	Acrylonitrile	1.601	1.450	1.841	1.688	1.628	1.837	1.686	1.708	1.680	7.56
17)	T	1,1-Dichloroet...	1.544	1.477	1.761	1.554	1.421	1.552	1.428	1.432	1.521	7.39
18)	T	2-Methyl-2-Pro...	4.173	3.715	4.374	3.869	3.672	3.915	2.816		3.791	13.10
19)	T	Methylene Chlo...	2.066	1.768	1.893	1.631	1.475	1.568	1.430	1.433	1.658	14.04
20)	T	3-Chloro-1-pro...	1.586	1.465	1.802	1.642	1.622	1.842	1.706	1.732	1.675	7.28
21)	T	Trichlorotrifl...	1.633	1.524	1.773	1.542	1.408	1.513	1.382	1.380	1.519	8.92
22)	T	Carbon Disulfide	5.957	5.263	5.891	5.280	5.100	5.467	4.979	4.913	5.356	7.33
23)	T	trans-1,2-Dich...	1.954	1.930	2.278	2.006	1.905	2.096	1.929	1.940	2.005	6.28
24)	T	1,1-Dichloroet...	2.798	2.586	3.014	2.654	2.448	2.611	2.391	2.378	2.610	8.31
25)	T	Methyl tert-Bu...	5.019	4.564	5.261	4.664	4.438	4.722	4.340	4.336	4.668	7.05
26)	T	Vinyl Acetate	0.328	0.338	0.399	0.381	0.382	0.430	0.402	0.410	0.384	9.11
27)	T	2-Butanone (MEK)	0.978	0.958	1.148	1.034	1.016	1.083	0.993	0.892	1.013	7.74
28)	T	cis-1,2-Dichlo...	2.016	1.815	2.238	1.958	1.846	2.007	1.836	1.847	1.945	7.34
29)	T	Diisopropyl Ether	1.321	1.317	1.609	1.393	1.321	1.440	1.336	1.354	1.387	7.18
30)	T	Ethyl Acetate	0.442	0.481	0.597	0.540	0.528	0.595	0.554	0.564	0.538	10.00
31)	T	n-Hexane	2.793	2.545	2.862	2.550	2.379	2.566	2.385	2.425	2.563	7.03

4/28/10

Method Path : J:\MS09\Methods\
Method File : R9042710.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

32)	T	Chloroform	2.907	2.716	3.171	2.798	2.549	2.709	2.465	2.478	2.724	8.74
33)	S	1,2-Dichloroet...	1.524	1.542	1.528	1.526	1.520	1.491	1.477	1.464	1.509	1.85
34)	T	Tetrahydrofura...	0.974	0.994	1.092	1.005	0.950	1.027	0.909	0.918	0.984	6.10
35)	T	Ethyl tert-But...	2.099	1.913	2.282	2.044	1.944	2.105	1.941	1.990	2.040	5.97
36)	T	1,2-Dichloroet...	2.223	2.002	2.363	2.093	1.913	2.034	1.857	1.870	2.044	8.69
37)	IR	1,4-Difluorobenzen...	----------ISTD----------									
38)	T	1,1,1-Trichlor...	0.547	0.513	0.600	0.527	0.486	0.533	0.493	0.500	0.525	7.02
39)	T	Isopropyl Acetate	0.176	0.160	0.206	0.191	0.188	0.213	0.197	0.204	0.192	9.03
40)	T	1-Butanol	0.320	0.242	0.303	0.272	0.272	0.349	0.322	0.332	0.302	12.06
41)	T	Benzene	1.737	1.540	1.605	1.402	1.274	1.355	1.227	1.245	1.423	13.08
42)	T	Carbon Tetrach...	0.427	0.408	0.484	0.439	0.412	0.457	0.428	0.443	0.437	5.65
43)	T	Cyclohexane	0.564	0.503	0.601	0.533	0.499	0.539	0.492	0.508	0.530	7.09
44)	T	tert-Amyl Meth...	0.966	0.908	1.049	0.949	0.913	1.005	0.928	0.954	0.959	4.99
45)	T	1,2-Dichloropr...	0.332	0.299	0.353	0.309	0.289	0.316	0.289	0.292	0.310	7.46
46)	T	Bromodichlorom...	0.424	0.392	0.466	0.424	0.405	0.455	0.422	0.430	0.427	5.66
47)	T	Trichloroethene	0.433	0.383	0.452	0.401	0.363	0.399	0.370	0.377	0.397	7.89
48)	T	1,4-Dioxane	0.279	0.244	0.304	0.276	0.263	0.298	0.276	0.280	0.277	6.79
49)	T	2,2,4-Trimethy...	1.376	1.281	1.466	1.316	1.236	1.336	1.218	1.229	1.307	6.50
50)	T	Methyl Methacr...	0.138	0.127	0.161	0.150	0.148	0.166	0.155	0.162	0.151	8.70
51)	T	n-Heptane	0.332	0.313	0.388	0.338	0.322	0.354	0.324	0.337	0.339	6.98
52)	T	cis-1,3-Dichlo...	0.500	0.445	0.535	0.493	0.487	0.555	0.513	0.524	0.507	6.62
53)	T	4-Methyl-2-pen...	0.239	0.225	0.292	0.269	0.268	0.300	0.277	0.287	0.270	9.54
54)	T	trans-1,3-Dich...	0.414	0.392	0.494	0.439	0.446	0.516	0.477	0.491	0.459	9.40
55)	T	1,1,2-Trichlor...	0.320	0.309	0.379	0.336	0.311	0.341	0.311	0.316	0.328	7.23
56)	IR	Chlorobenzene-d5 (...	----------ISTD----------									
57)	S	Toluene-d8 (SS2)	2.540	2.525	2.530	2.531	2.514	2.510	2.508	2.515	2.521	0.45
58)	T	Toluene	3.995	3.524	4.061	3.585	3.304	3.543	3.221	3.215	3.556	9.15
59)	T	2-Hexanone	1.491	1.256	1.618	1.489	1.459	1.640	1.520	1.573	1.506	7.95
60)	T	Dibromochlorom...	0.808	0.734	0.910	0.813	0.813	0.940	0.877	0.905	0.850	8.12
61)	T	1,2-Dibromoethane	0.875	0.824	1.000	0.910	0.855	0.964	0.885	0.905	0.902	6.31
62)	T	n-Butyl Acetate	1.580	1.411	1.814	1.661	1.668	1.915	1.801	1.897	1.718	9.98
63)	T	n-Octane	0.577	0.588	0.704	0.654	0.608	0.680	0.630	0.663	0.638	7.02
64)	T	Tetrachloroethene	1.249	1.080	1.248	1.092	1.011	1.117	1.034	1.059	1.111	8.18
65)	T	Chlorobenzene	2.688	2.318	2.721	2.344	2.168	2.344	2.139	2.181	2.363	9.56
66)	T	Ethylbenzene	4.164	3.675	4.329	3.909	3.681	4.034	3.687	3.700	3.898	6.54
67)	T	m- & p-Xylenes	3.227	2.808	3.410	3.089	2.917	3.202	2.972	3.012	3.080	6.29
68)	T	Bromoform	0.661	0.614	0.822	0.743	0.765	0.939	0.898	0.946	0.798	15.63
69)	T	Styrene	2.416	2.120	2.562	2.384	2.338	2.626	2.442	2.495	2.423	6.36
70)	T	o-Xylene	3.352	2.851	3.445	3.141	2.941	3.255	3.025	3.109	3.140	6.47

4/28/10

Method Path : J:\MS09\Methods\
Method File : R9042710.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

71)	T	n-Nonane	1.389	1.257	1.491	1.359	1.297	1.419	1.332	1.414	1.370	5.45
72)	T	1,1,2,2-Tetrac...	1.250	1.171	1.452	1.321	1.270	1.422	1.320	1.372	1.322	7.02
73)	S	Bromofluoroben...	0.869	0.864	0.868	0.871	0.882	0.887	0.906	0.918	0.883	2.23
74)	T	Cumene	4.874	4.019	4.775	4.285	4.026	4.372	4.009	3.964	4.291	8.40
75)	T	alpha-Pinene	1.943	1.818	2.110	1.963	1.940	2.120	1.992	2.042	1.991	4.99
76)	T	n-Propylbenzene	5.229	4.538	5.574	5.059	4.799	5.201	4.772	4.644	4.977	7.02
77)	T	3-Ethyltoluene	4.047	3.451	4.301	3.966	3.757	4.154	3.896	3.863	3.929	6.58
78)	T	4-Ethyltoluene	4.130	3.568	4.420	4.055	3.836	4.162	3.789	3.714	3.959	7.07
79)	T	1,3,5-Trimethy...	3.406	2.840	3.465	3.218	3.084	3.422	3.196	3.217	3.231	6.39
80)	T	alpha-Methylst...	1.566	1.412	1.856	1.776	1.797	2.046	1.918	1.951	1.790	11.66
81)	T	2-Ethyltoluene	4.173	3.682	4.510	4.128	3.903	4.306	3.971	3.944	4.077	6.33
82)	T	1,2,4-Trimethy...	3.304	2.907	3.632	3.324	3.218	3.701	3.421	3.219	3.341	7.51
83)	T	n-Decane	1.509	1.321	1.604	1.504	1.445	1.630	1.543	1.625	1.523	6.86
84)	T	Benzyl Chloride	1.907	1.693	2.352	2.299	2.513	3.145	3.015	3.131	2.507	22.08
85)	T	1,3-Dichlorobe...	2.070	1.810	2.231	2.017	1.913	2.169	2.023	2.065	2.037	6.55
86)	T	1,4-Dichlorobe...	2.174	1.839	2.317	2.088	1.983	2.258	2.110	2.130	2.112	7.13
87)	T	sec-Butylbenzene	4.562	4.154	5.037	4.605	4.390	4.838	4.420	4.271	4.535	6.45
88)	T	4-Isopropyltol...	4.204	3.830	4.804	4.429	4.284	4.799	4.314	3.851	4.314	8.54
89)	T	1,2,3-Trimethy...	3.273	2.893	3.658	3.345	3.249	3.767	3.487	3.263	3.367	8.08
90)	T	1,2-Dichlorobe...	1.847	1.696	2.165	1.942	1.857	2.142	1.991	1.881	1.940	8.09
91)	T	d-Limonene	0.973	0.945	1.192	1.109	1.147	1.347	1.290	1.279	1.160	12.66
92)	T	1,2-Dibromo-3-...	0.480	0.455	0.603	0.581	0.601	0.768	0.730	0.775	0.624	19.82
93)	T	n-Undecane	1.415	1.271	1.527	1.422	1.433	1.686	1.608	1.700	1.508	9.93
94)	T	1,2,4-Trichlor...	1.271	1.110	1.394	1.261	1.254	1.599	1.518	1.571	1.372	12.86
95)	T	Naphthalene	4.185	3.267	4.048	3.843	3.798	5.220	4.866	4.716	4.243	15.22
96)	T	n-Dodecane	1.536	1.287	1.422	1.336	1.396	1.835	1.785	1.908	1.563	15.64
97)	T	Hexachlorobuta...	0.810	0.735	0.936	0.855	0.818	0.987	0.946	0.992	0.885	10.63
98)	T	Cyclohexanone	1.001	0.862	1.063	0.973	0.978	1.126	1.058	1.102	1.020	8.33
99)	T	tert-Butylbenzene	3.565	3.147	3.799	3.534	3.344	3.724	3.382	3.146	3.455	7.07
100)	T	n-Butylbenzene	3.357	2.976	3.725	3.469	3.349	3.768	3.475	3.409	3.441	7.14

(#) = Out of Range

BM 4/28/10

Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: S20-04191001
20ng/L Std. ID: S20-04261003
200ng/L Std. ID: S20-04191004
Dilution Factors: 5 50 250

Compounds	Source Std. mg/m³	Primary Working Standards 200ng/L	20ng/L	4ng/L
Propene	1.07	214	21.4	4.28
Dichlorodifluoromethane	1.05	210	21.0	4.20
Chloromethane	1.00	200	20.0	4.00
Freon-114	1.06	212	21.2	4.24
Vinyl Chloride	1.01	202	20.2	4.04
1,3-Butadiene	1.20	240	24.0	4.80
Bromomethane	1.02	204	20.4	4.08
Chloroethane	1.01	202	20.2	4.04
Ethanol	5.20	1040	104	20.8
Acetonitrile	1.05	210	21.0	4.20
Acrolein	1.08	216	21.6	4.32
Acetone	5.50	1100	110	22.0
Trichlorofluoromethane	1.05	210	21.0	4.20
Isopropanol	1.89	378	37.8	7.56
Acrylonitrile	1.06	212	21.2	4.24
1,1-Dichloroethene	1.10	220	22.0	4.40
tert-Butanol	2.02	404	40.4	8.08
Methylene Chloride	1.07	214	21.4	4.28
Allyl Chloride	1.08	216	21.6	4.32
Trichlorotrifluoroethane	1.10	220	22.0	4.40
Carbon Disulfide	1.07	214	21.4	4.28
trans-1,2-Dichloroethene	1.06	212	21.2	4.24
1,1-Dichloroethane	1.06	212	21.2	4.24
Methyl tert-Butyl Ether	1.09	218	21.8	4.36
Vinyl Acetate	5.02	1004	100	20.1
2-Butanone	1.10	220	22.0	4.40
cis-1,2-Dichloroethene	1.09	218	21.8	4.36
Diisopropyl Ether	1.07	214	21.4	4.28
Ethyl Acetate	2.13	426	42.6	8.52
n-Hexane	1.09	218	21.8	4.36
Chloroform	1.07	214	21.4	4.28
Tetrahydrofuran	1.10	220	22.0	4.40
Ethyl tert-Butyl Ether	1.03	206	20.6	4.12
1,2-Dichloroethane	1.06	212	21.2	4.24
1,1,1-Trichloroethane	1.05	210	21.0	4.20
Isopropyl Acetate	2.09	418	41.8	8.36
1-Butanol	2.07	414	41.4	8.28
Benzene	1.06	212	21.2	4.24
Carbon Tetrachloride	1.08	216	21.6	4.32
Cyclohexane	2.15	430	43.0	8.60
tert-Amyl Methyl Ether	1.04	208	20.8	4.16
1,2-Dichloropropane	1.05	210	21.0	4.20
Bromodichloromethane	1.08	216	21.6	4.32
Trichloroethene	1.06	212	21.2	4.24
1,4-Dioxane	1.07	214	21.4	4.28
Isooctane	1.04	208	20.8	4.16
Methyl Methacrylate	2.13	426	42.6	8.52
n-Heptane	1.06	212	21.2	4.24
cis-1,3-Dichloropropene	0.99	198	19.8	3.96
4-Methyl-2-pentanone	1.10	220	22.0	4.40
trans-1,3-Dichloropropene	1.10	220	22.0	4.40
1,1,2-Trichloroethane	1.05	210	21.0	4.20
Toluene	1.08	216	21.6	4.32
2-Hexanone	1.10	220	22.0	4.40
Dibromochloromethane	1.15	230	23.0	4.60
1,2-Dibromoethane	1.06	212	21.2	4.24
n-Butyl Acetate	1.10	220	22.0	4.40
n-Octane	1.07	214	21.4	4.28
Tetrachloroethene	1.02	204	20.4	4.08
Chlorobenzene	1.08	216	21.6	4.32
Ethylbenzene	1.06	212	21.2	4.24
m-&p-Xylene	2.08	416	41.6	8.32

Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source) 4	4	20	20	20	200	200	200
Injection (L):	0.025	0.05	0.025	0.050	0.25	0.125	0.25	0.50
ICAL Points:	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
	0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
	0.120	0.240	0.600	1.20	6.00	30.0	60.0	120
	0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
	0.520	1.040	2.60	5.20	26.0	130	260	520
	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
	0.550	1.100	2.75	5.50	27.5	138	275	550
	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
	0.189	0.378	0.945	1.89	9.45	47.3	94.5	189
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.202	0.404	1.01	2.02	10.1	50.5	101	202
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
	0.502	1.004	2.51	5.02	25.1	126	251	502
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.213	0.426	1.07	2.13	10.7	53.3	107	213
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
	0.209	0.418	1.05	2.09	10.5	52.3	105	209
	0.207	0.414	1.04	2.07	10.4	51.8	104	207
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
	0.215	0.430	1.08	2.15	10.8	53.8	108	215
	0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
	0.213	0.426	1.07	2.13	10.7	53.3	107	213
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.115	0.230	0.575	1.15	5.75	28.8	57.5	115
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.208	0.416	1.04	2.08	10.4	52.0	104	208

Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: S20-04191001
20ng/L Std. ID:
200ng/L Std. ID:
Dilution Factors: 5 50 250

Compounds	Source Std. mg/m³	Primary Working Standards 200ng/L	20ng/L	4ng/L
Bromoform	1.03	206	20.6	4.12
Styrene	1.07	214	21.4	4.28
o-Xylene	1.06	212	21.2	4.24
n-Nonane	1.06	212	21.2	4.24
1,1,2,2-Tetrachloroethane	1.07	214	21.4	4.28
Cumene	1.03	206	20.6	4.12
alpha-Pinene	1.01	202	20.2	4.04
n-Propylbenzene	1.03	206	20.6	4.12
3-Ethyltoluene	1.09	218	21.8	4.36
4-Ethyltoluene	1.09	218	21.8	4.36
1,3,5-Trimethylbenzene	1.09	218	21.8	4.36
alpha-Methylstyrene	1.07	214	21.4	4.28
2-Ethyltoluene	1.05	210	21.0	4.20
1,2,4-Trimethylbenzene	1.06	212	21.2	4.24
n-Decane	1.08	216	21.6	4.32
Benzyl Chloride	1.10	220	22.0	4.40
1,3-Dichlorobenzene	1.09	218	21.8	4.36
1,4-Dichlorobenzene	1.06	212	21.2	4.24
sec-Butylbenzene	1.06	212	21.2	4.24
p-Isopropyltoluene	1.03	206	20.6	4.12
1,2,3-Trimethylbenzene	1.07	214	21.4	4.28
1,2-Dichlorobenzene	1.06	212	21.2	4.24
d-Limonene	1.09	218	21.8	4.36
1,2-Dibromo-3-chloropropane	1.10	220	22.0	4.40
n-Undecane	1.09	218	21.8	4.36
1,2,4-Trichlorobenzene	1.12	224	22.4	4.48
Naphthalene	1.06	212	21.2	4.24
n-Dodecane	0.99	198	19.8	3.96
Hexachloro-1,3-butadiene	1.10	220	22.0	4.40
Methacrylonitrile	1.06	212	21.2	4.24
Cyclohexanone	0.98	196	19.6	3.92
tert-Butylbenzene	1.06	212	21.2	4.24
n-Butylbenzene	1.09	218	21.8	4.36

Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source)							
	4	4	20	20	20	200	200	200
Injection (L):	0.025	0.050	0.025	0.05	0.25	0.125	0.25	0.50
ICAL Points:	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng
	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
	0.112	0.224	0.560	1.12	5.60	28.0	56.0	112
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0
	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109

*Enter Information in the Solid Shaded Areas ONLY.

Calibration Status Report MS09

Method Path : J:\MS09\Methods\
Method File : R9042710.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Wed Apr 28 14:31:40 2010
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS09\Data\2010_04\27\04271006.D
2	0.2	0	25	J:\MS09\Data\2010_04\27\04271007.D
3	0.5	1	25	J:\MS09\Data\2010_04\27\04271008.D
4	1.0	1	25	J:\MS09\Data\2010_04\27\04271009.D
5	5.0	5	25	J:\MS09\Data\2010_04\27\04271010.D
6	25	27	25	J:\MS09\Data\2010_04\27\04271011.D
7	50	54	25	J:\MS09\Data\2010_04\27\04271012.D
8	100	107	25	J:\MS09\Data\2010_04\27\04271013.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Apr 28 14:31 2010	Apr 28 14:30 2010	27 Apr 2010 18:22
2	0.2	Apr 28 05:07 2010	Apr 27 20:54 2010	27 Apr 2010 19:03
3	0.5	Apr 28 05:07 2010	Apr 27 21:01 2010	27 Apr 2010 19:45
4	1.0	Apr 28 05:07 2010	Apr 27 21:04 2010	27 Apr 2010 20:27
5	5.0	Apr 28 05:08 2010	Apr 28 05:03 2010	27 Apr 2010 21:09
6	25	Apr 28 05:08 2010	Apr 28 05:04 2010	27 Apr 2010 21:51
7	50	Apr 28 05:08 2010	Apr 28 05:04 2010	27 Apr 2010 22:33
8	100	Apr 28 05:09 2010	Apr 28 05:05 2010	27 Apr 2010 23:15

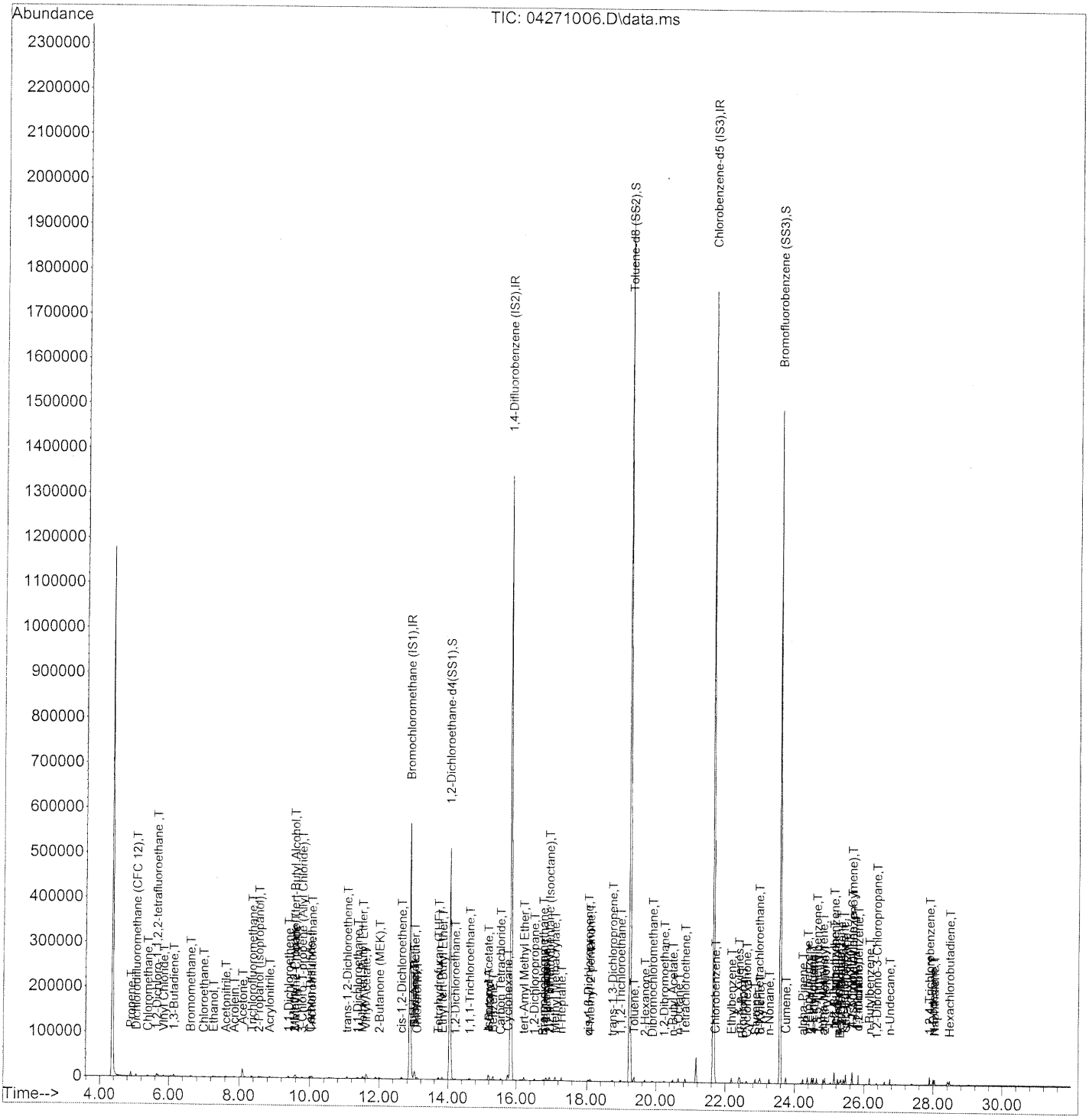
R9042710.M Wed Apr 28 14:48:25 2010

DH 4/28/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271006.D
Acq On : 27 Apr 2010 18:22
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 28 14:30:39 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271006.D
Acq On : 27 Apr 2010 18:22
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 28 14:30:39 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.88	130	341241	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	15.84	114	1655132	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	21.65	82	685249	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	519893	24.604	ng		-0.03
Spiked Amount 25.000			Recovery =	98.40%			
57) Toluene-d8 (SS2)	19.24	98	1740487	24.322	ng		-0.01
Spiked Amount 25.000			Recovery =	97.28%			
73) Bromofluorobenzene (SS3)	23.58	174	595195	22.725	ng		-0.01
Spiked Amount 25.000			Recovery =	90.88%			
Target Compounds							Qvalue
2) Propene	4.90	42	2177	0.151	ng		98
3) Dichlorodifluoromethan...	5.06	85	5460	0.140	ng	#	94
4) Chloromethane	5.39	50	3289	0.148	ng		91
5) 1,2-Dichloro-1,1,2,2-t...	5.65	135	2995	0.123	ng		90
6) Vinyl Chloride	5.85	62	3299	0.125	ng		93
7) 1,3-Butadiene	6.15	54	2798	0.162	ng		96
8) Bromomethane	6.63	94	2345	0.137	ng		99
9) Chloroethane	7.00	64	1710	0.137	ng	#	43
10) Ethanol	7.28	45	5643m	0.567	ng		
11) Acetonitrile	7.63	41	3130	0.134	ng		90
12) Acrolein	7.86	56	1827	0.209	ng		86
13) Acetone	8.09	58	9572m	0.767	ng		
14) Trichlorofluoromethane	8.36	101	4669	0.127	ng		95
15) 2-Propanol (Isopropanol)	8.56	45	10220	0.273	ng		92
16) Acrylonitrile	8.86	53	2317	0.125	ng		95
17) 1,1-Dichloroethene	9.40	96	2318	0.134	ng	#	71
18) 2-Methyl-2-Propanol (t...	9.57	59	11506	0.264	ng	#	79
19) Methylene Chloride	9.59	84	3018	0.162	ng	#	74
20) 3-Chloro-1-propene (Al...	9.78	41	2338	0.138	ng		99
21) Trichlorotrifluoroethane	10.06	151	2452	0.132	ng	#	73
22) Carbon Disulfide	10.01	76	8700	0.143	ng		87
23) trans-1,2-Dichloroethene	11.07	61	2827	0.124	ng	#	70
24) 1,1-Dichloroethane	11.37	63	4049	0.144	ng		87
25) Methyl tert-Butyl Ether	11.53	73	7468	0.137	ng		84
26) Vinyl Acetate	11.62	86	2247	0.807	ng	#	47
27) 2-Butanone (MEK)	12.01	72	1468	0.124	ng		94
28) cis-1,2-Dichloroethene	12.65	61	2999	0.135	ng		76
29) Diisopropyl Ether	13.02	87	1930	0.121	ng	#	51
30) Ethyl Acetate	13.01	61	1286	0.216	ng		88
31) n-Hexane	13.01	57	4155	0.150	ng	#	90

DM 4/28/10

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271006.D
Acq On : 27 Apr 2010 18:22
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 28 14:30:39 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.09	83	4245	0.136	ng		98
34) Tetrahydrofuran (THF)	13.72	72	1462	0.131	ng	#	85
35) Ethyl tert-Butyl Ether	13.83	87	2951	0.124	ng	#	74
36) 1,2-Dichloroethane	14.21	62	3217	0.132	ng		82
38) 1,1,1-Trichloroethane	14.63	97	3805	0.126	ng		91
39) Isopropyl Acetate	15.18	61	2436	0.241	ng	#	83
40) 1-Butanol	15.20	56	4387	0.246	ng		86
41) Benzene	15.32	78	12191	0.170	ng		94
42) Carbon Tetrachloride	15.54	117	3053	0.115	ng		99
43) Cyclohexane	15.75	84	8031	0.281	ng	#	77
44) tert-Amyl Methyl Ether	16.22	73	6654	0.125	ng		94
45) 1,2-Dichloropropane	16.52	63	2311	0.143	ng		90
46) Bromodichloromethane	16.78	83	3030	0.126	ng		99
47) Trichloroethene	16.85	130	3038	0.129	ng		98
48) 1,4-Dioxane	16.85	88	1978	0.128	ng	#	69
49) 2,2,4-Trimethylpentane...	16.95	57	9475	0.138	ng		97
50) Methyl Methacrylate	17.11	100	1944	0.228	ng	#	59
51) n-Heptane	17.30	71	2332	0.129	ng		85
52) cis-1,3-Dichloropropene	18.04	75	3279	0.117	ng		87
53) 4-Methyl-2-pentanone	18.10	58	1744	0.120	ng		97
54) trans-1,3-Dichloropropene	18.74	75	3017	0.117	ng		88
55) 1,1,2-Trichloroethane	18.98	97	2223	0.124	ng		90
58) Toluene	19.37	91	11826	0.141	ng		99
59) 2-Hexanone	19.68	43	4494	0.123	ng		99
60) Dibromochloromethane	19.91	129	2546	0.117	ng		98
61) 1,2-Dibromoethane	20.24	107	2542	0.116	ng		100
62) n-Butyl Acetate	20.49	43	4765	0.116	ng		99
63) n-Octane	20.66	57	1693	0.116	ng	#	67
64) Tetrachloroethene	20.84	166	3492	0.128	ng		97
65) Chlorobenzene	21.71	112	7958	0.139	ng		97
66) Ethylbenzene	22.19	91	12098	0.130	ng		98
67) m- & p-Xylenes	22.40	91	18399	0.246	ng		91
68) Bromoform	22.51	173	1867	0.087	ng		81
69) Styrene	22.87	104	7087	0.120	ng		93
70) o-Xylene	23.01	91	9739	0.128	ng		96
71) n-Nonane	23.27	43	4035	0.128	ng		91
72) 1,1,2,2-Tetrachloroethane	22.98	83	3665	0.127	ng		99
74) Cumene	23.75	105	13759	0.133	ng		100
75) alpha-Pinene	24.24	93	5378	0.110	ng		94
76) n-Propylbenzene	24.38	91	14763	0.124	ng		96
77) 3-Ethyltoluene	24.50	105	12090	0.126	ng		95
78) 4-Ethyltoluene	24.55	105	12338	0.128	ng		97
79) 1,3,5-Trimethylbenzene	24.64	105	10177	0.127	ng		98

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271006.D
Acq On : 27 Apr 2010 18:22
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 28 14:30:39 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

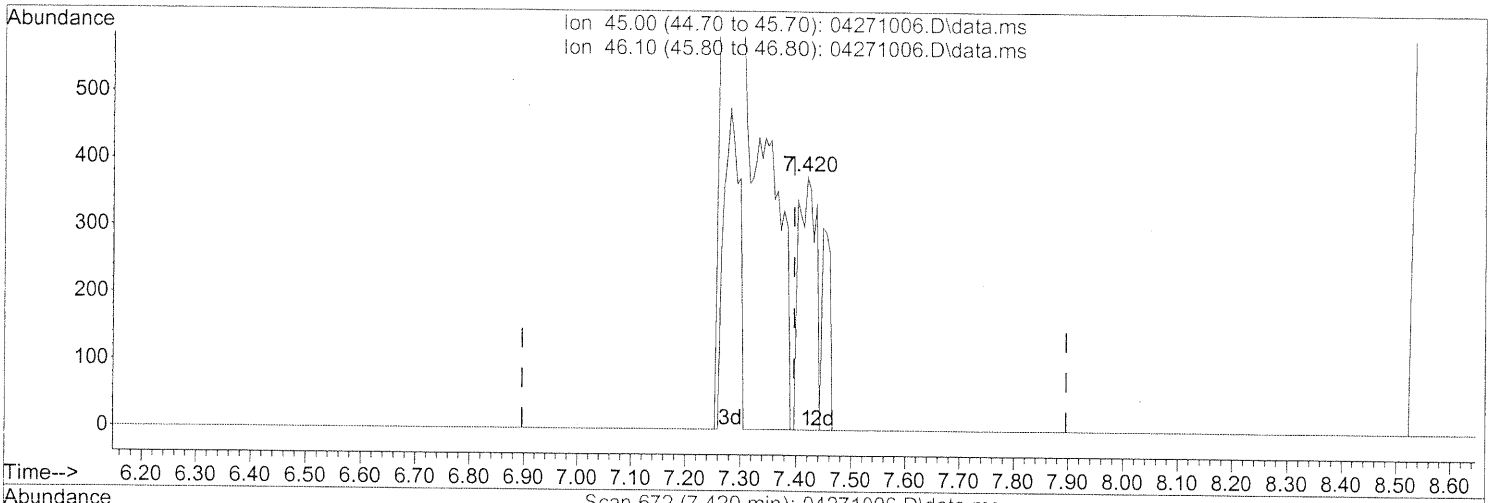
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	4592	0.101	ng		96
81) 2-Ethyltoluene	24.88	105	12009	0.120	ng		97
82) 1,2,4-Trimethylbenzene	25.15	105	9599	0.115	ng		96
83) n-Decane	25.25	57	4467	0.126	ng		91
84) Benzyl Chloride	25.31	91	5749	0.096	ng		97
85) 1,3-Dichlorobenzene	25.34	146	6184	0.120	ng		99
86) 1,4-Dichlorobenzene	25.42	146	6316	0.118	ng		99
87) sec-Butylbenzene	25.47	105	13255	0.119	ng		97
88) 4-Isopropyltoluene (p-...	25.66	119	11870	0.108	ng		95
89) 1,2,3-Trimethylbenzene	25.66	105	9598	0.113	ng		89
90) 1,2-Dichlorobenzene	25.84	146	5367	0.108	ng		99
91) d-Limonene	25.84	68	2906	0.103	ng		84
92) 1,2-Dibromo-3-Chloropr...	26.36	157	1447	0.092	ng	#	68
93) n-Undecane	26.75	57	4227	0.117	ng		91
94) 1,2,4-Trichlorobenzene	27.89	180	3902	0.106	ng		98
95) Naphthalene	28.05	128	12158	0.106	ng		94
96) n-Dodecane	28.00	57	4169	0.108	ng		89
97) Hexachlorobutadiene	28.47	225	2441	0.101	ng		93
98) Cyclohexanone	22.62	55	2688	0.106	ng	#	87
99) tert-Butylbenzene	25.15	119	10357	0.120	ng		98
100) n-Butylbenzene	26.16	91	10030	0.118	ng		96

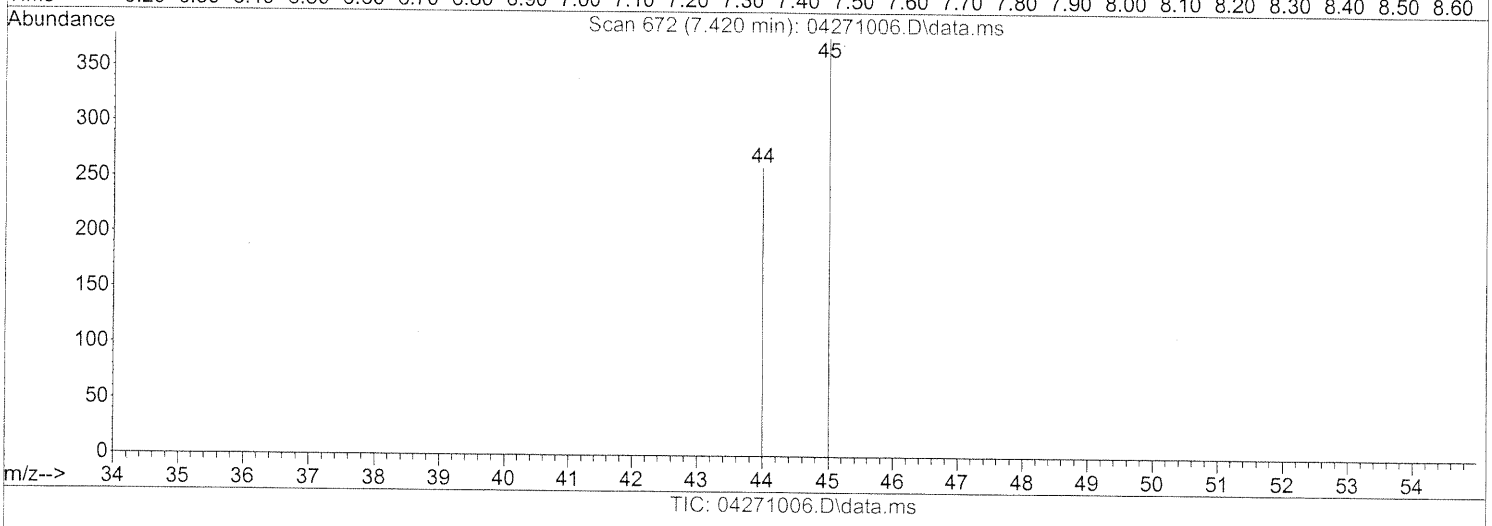
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271006.D
Acq On : 27 Apr 2010 18:22
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:45:23 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271006.D\data.ms

(10) Ethanol (T)

7.420min (+0.023) 0.08ng

response 794

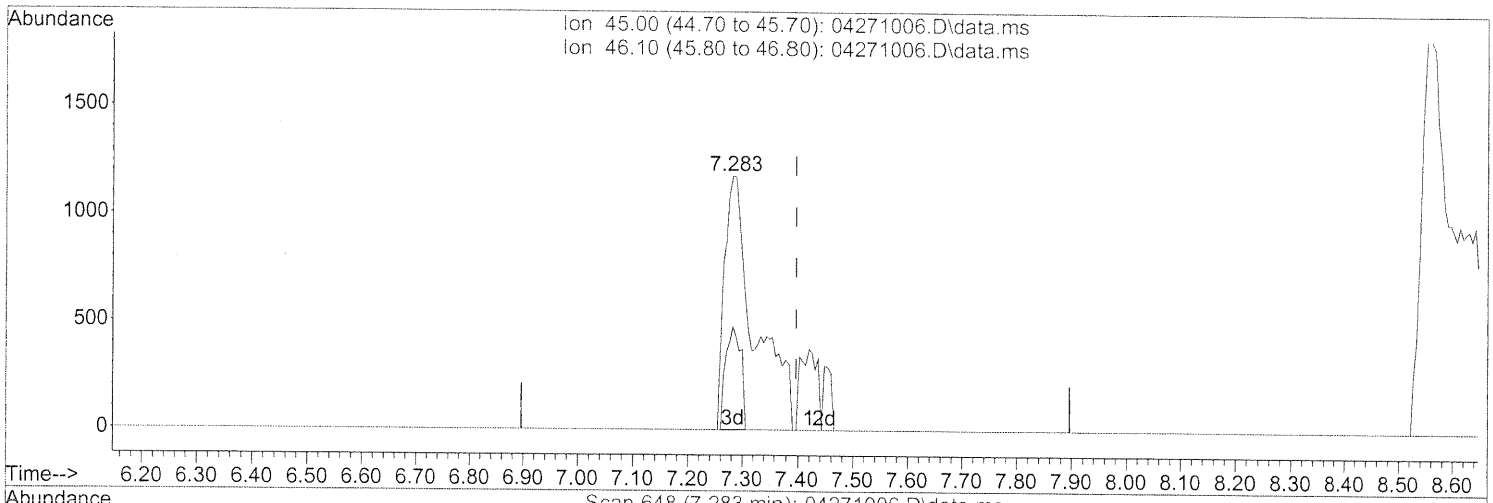
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45.00	100	100
46.10	38.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

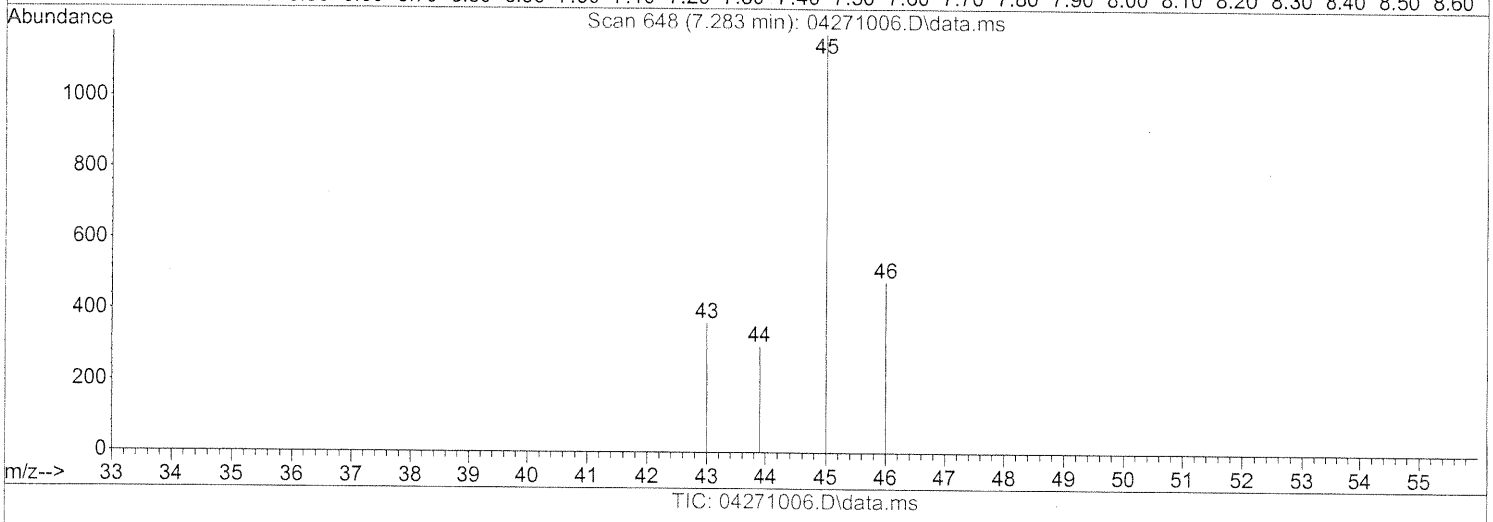
SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271006.D
Acq On : 27 Apr 2010 18:22
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:45:23 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271006.D\data.ms

(10) Ethanol (T)

7.283min (-0.114) 0.57ng m

response 5643

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

SP → IC

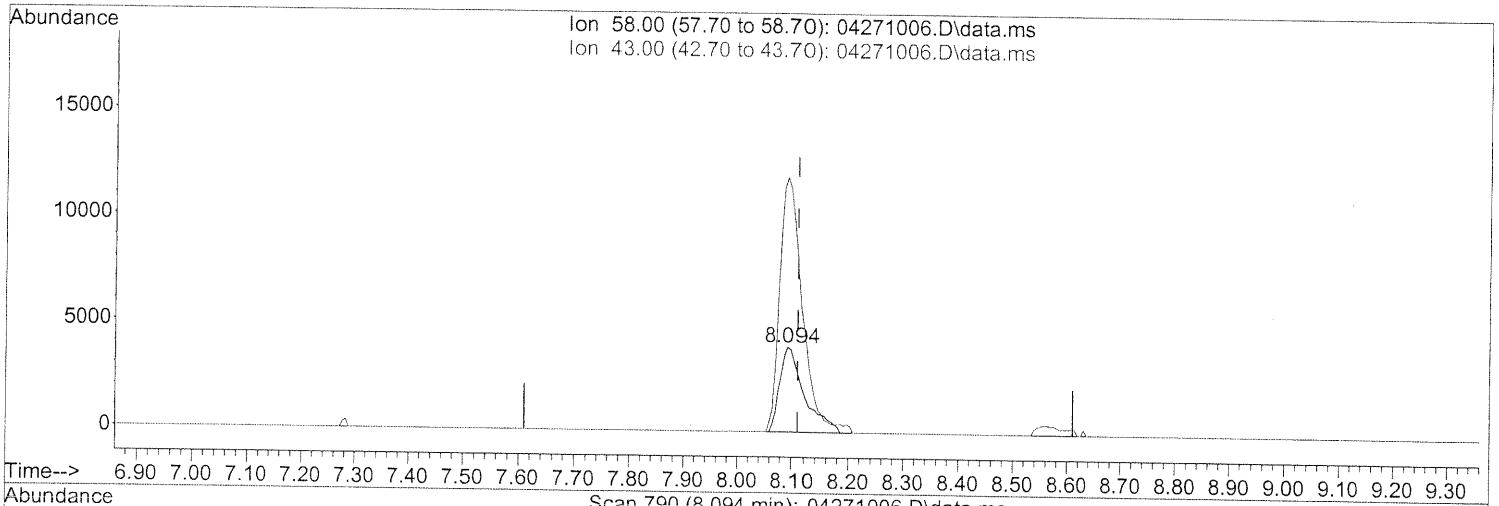
4/28/10

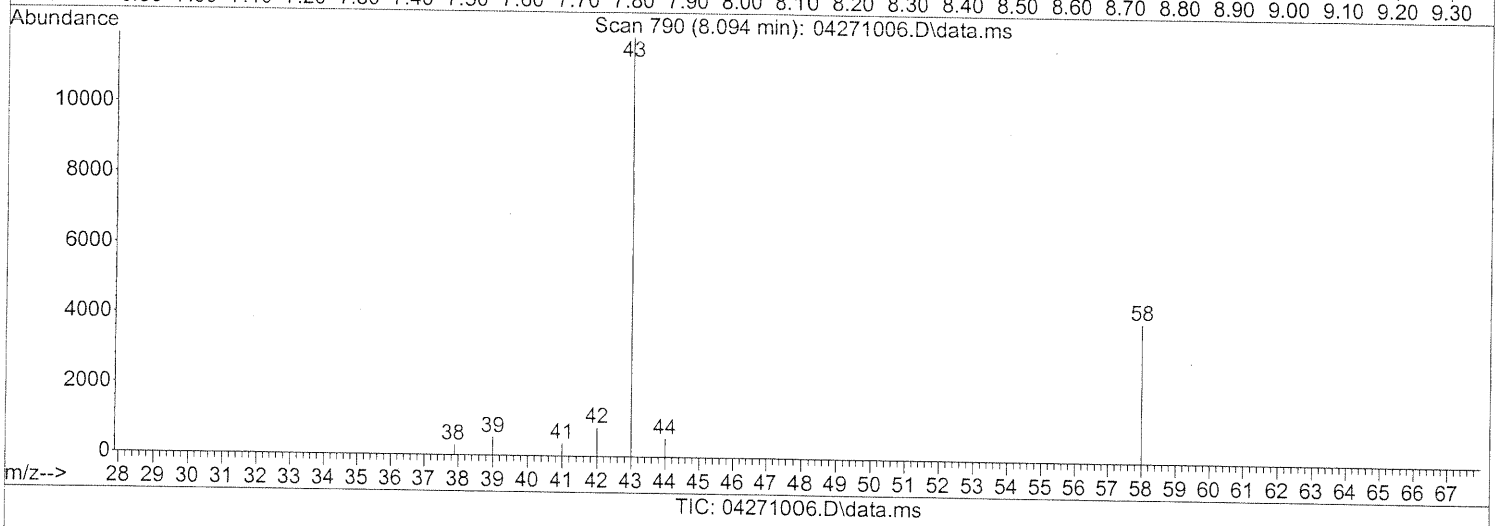
4/30/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271006.D
Acq On : 27 Apr 2010 18:22
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:46:23 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271006.D\data.ms

(13) Acetone (T)

8.094min (-0.017) 0.94ng

response 11717

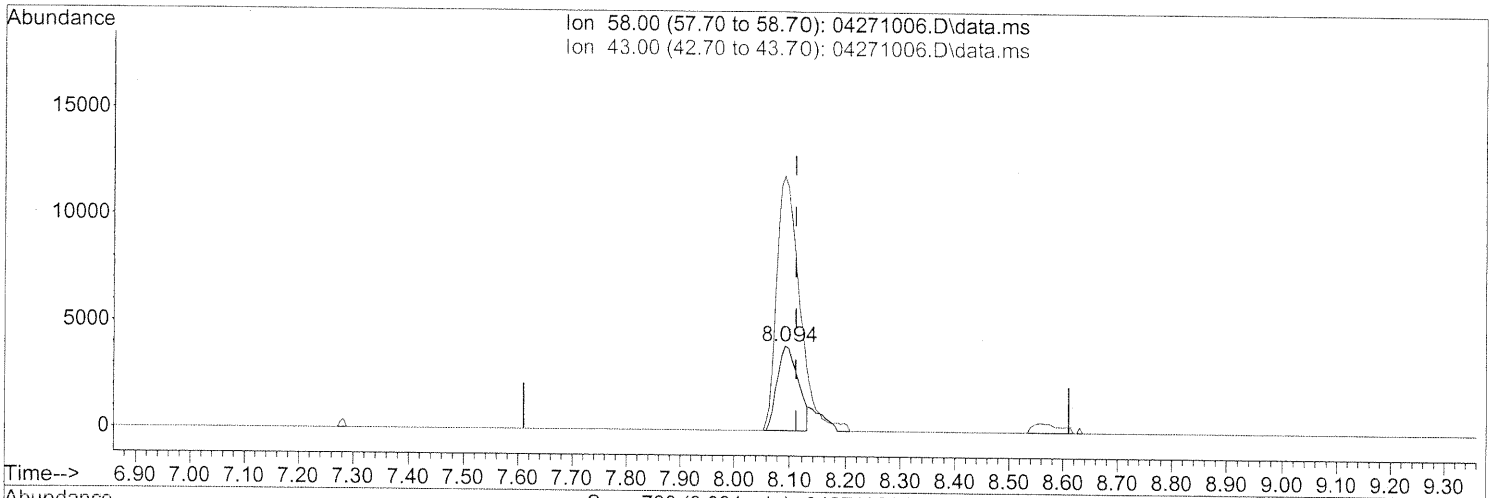
SH

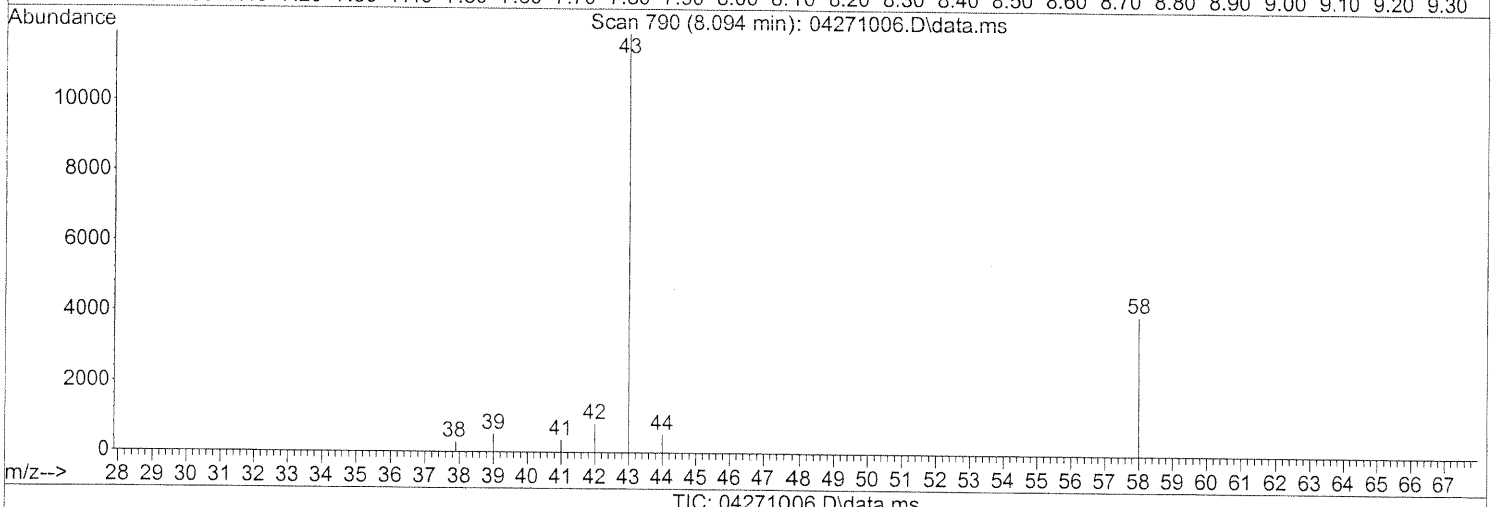
Ion	Exp%	Act%
58.00	100	100
43.00	325.00	276.43#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271006.D
Acq On : 27 Apr 2010 18:22
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:46:23 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271006.D\data.ms

(13) Acetone (T)

8.094min (-0.017) 0.77ng m

response 9572

Ion	Exp%	Act%
58.00	100	100
43.00	325.00	338.37
0.00	0.00	0.00
0.00	0.00	0.00

SH → IC

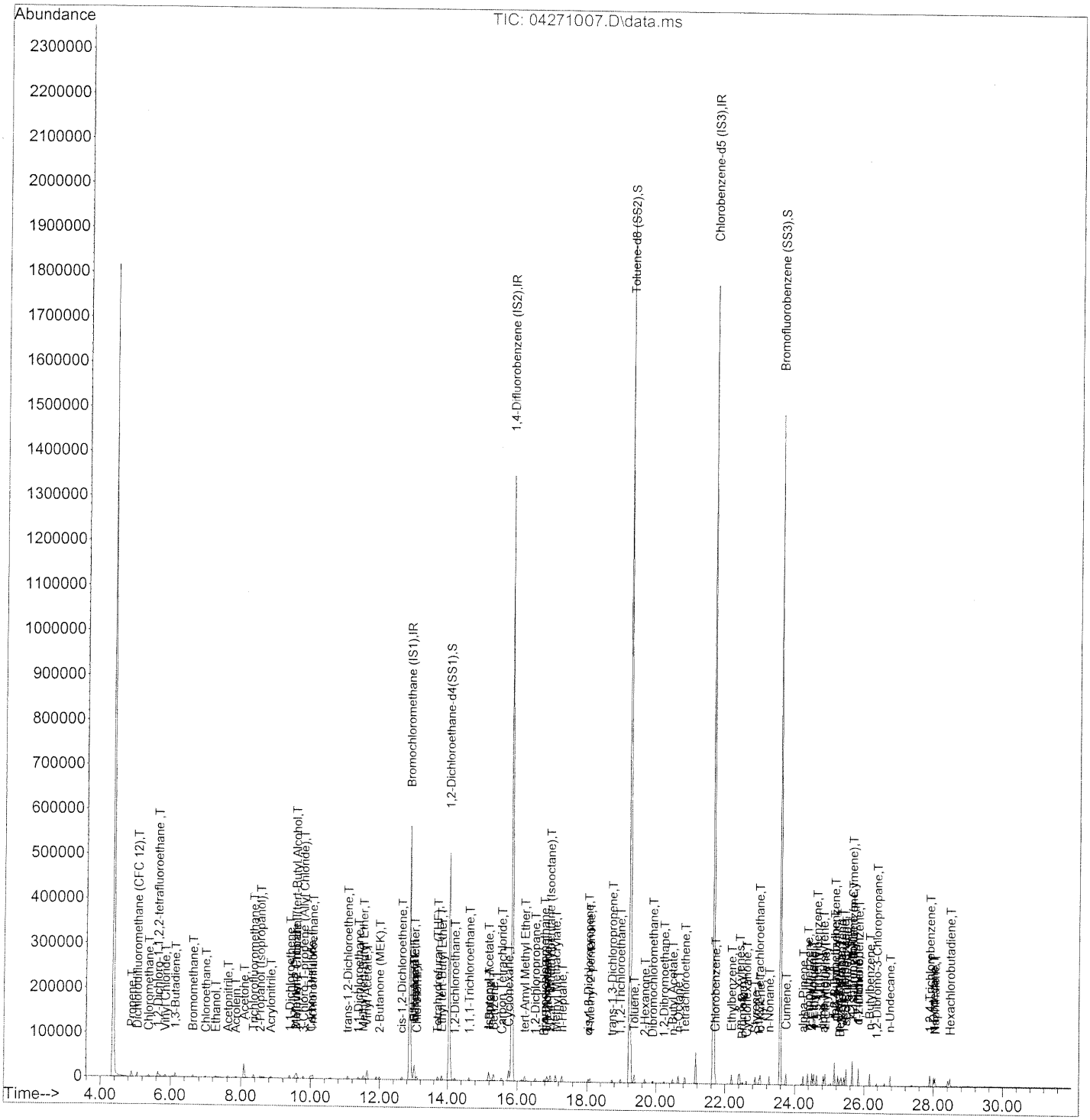
JBA 4/28/10

KR 4/30/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271007.D
Acq On : 27 Apr 2010 19:03
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:54:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271007.D
Acq On : 27 Apr 2010 19:03
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:54:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	337635	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	15.84	114	1652324	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	21.65	82	689145	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	520502	24.896	ng		-0.03
Spiked Amount 25.000			Recovery =	99.60%			
57) Toluene-d8 (SS2)	19.24	98	1740045	24.178	ng		-0.01
Spiked Amount 25.000			Recovery =	96.72%			
73) Bromofluorobenzene (SS3)	23.58	174	595676	22.615	ng		-0.01
Spiked Amount 25.000			Recovery =	90.44%			
Target Compounds							Qvalue
2) Propene	4.89	42	3716	0.260	ng		97
3) Dichlorodifluoromethan...	5.05	85	10004	0.259	ng		97
4) Chloromethane	5.39	50	5884	0.268	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.64	135	5593	0.231	ng		97
6) Vinyl Chloride	5.85	62	6127	0.235	ng		98
7) 1,3-Butadiene	6.14	54	4789	0.280	ng		96
8) Bromomethane	6.64	94	4192	0.247	ng		100
9) Chloroethane	7.00	64	3020	0.244	ng		88
10) Ethanol	7.28	45	10509m	1.067	ng		
11) Acetonitrile	7.62	41	5179	0.225	ng		92
12) Acrolein	7.85	56	2569	0.298	ng		94
13) Acetone	8.09	58	17074m	1.382	ng		
14) Trichlorofluoromethane	8.36	101	8663	0.237	ng		100
15) 2-Propanol (Isopropanol)	8.55	45	18331	0.495	ng		78
16) Acrylonitrile	8.85	53	4152	0.226	ng		99
17) 1,1-Dichloroethene	9.40	96	4388	0.256	ng	#	72
18) 2-Methyl-2-Propanol (t...	9.58	59	20272	0.470	ng		90
19) Methylene Chloride	9.58	84	5109	0.277	ng	#	74
20) 3-Chloro-1-propene (Al...	9.80	41	4275	0.254	ng		88
21) Trichlorotrifluoroethane	10.06	151	4529	0.247	ng	#	75
22) Carbon Disulfide	10.01	76	15211	0.253	ng		98
23) trans-1,2-Dichloroethene	11.06	61	5526	0.245	ng		80
24) 1,1-Dichloroethane	11.38	63	7403	0.267	ng		97
25) Methyl tert-Butyl Ether	11.52	73	13436	0.249	ng		90
26) Vinyl Acetate	11.63	86	4583	1.664	ng	#	29
27) 2-Butanone (MEK)	12.00	72	2846	0.244	ng	#	84
28) cis-1,2-Dichloroethene	12.65	61	5344	0.244	ng	#	74
29) Diisopropyl Ether	13.02	87	3807	0.242	ng	#	38
30) Ethyl Acetate	13.01	61	2767	0.470	ng		96
31) n-Hexane	13.02	57	7494	0.274	ng		98

DH 4/28/10

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271007.D
Acq On : 27 Apr 2010 19:03
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:54:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.09	83	7849	0.254	ng		100
34) Tetrahydrofuran (THF)	13.71	72	2952	0.267	ng	#	76
35) Ethyl tert-Butyl Ether	13.83	87	5322	0.225	ng	#	77
36) 1,2-Dichloroethane	14.21	62	5732	0.238	ng		97
38) 1,1,1-Trichloroethane	14.63	97	7117	0.236	ng		93
39) Isopropyl Acetate	15.18	61	4433	0.439	ng	#	92
40) 1-Butanol	15.20	56	6627	0.373	ng	#	78
41) Benzene	15.32	78	21577	0.301	ng		96
42) Carbon Tetrachloride	15.55	117	5829	0.221	ng		99
43) Cyclohexane	15.75	84	14291	0.501	ng	#	81
44) tert-Amyl Methyl Ether	16.22	73	12481	0.236	ng		92
45) 1,2-Dichloropropane	16.52	63	4144	0.256	ng		95
46) Bromodichloromethane	16.78	83	5600	0.233	ng		98
47) Trichloroethene	16.86	130	5362	0.229	ng		98
48) 1,4-Dioxane	16.84	88	3448	0.224	ng	#	76
49) 2,2,4-Trimethylpentane...	16.95	57	17614	0.257	ng		99
50) Methyl Methacrylate	17.12	100	3589	0.422	ng	#	65
51) n-Heptane	17.30	71	4382	0.242	ng		87
52) cis-1,3-Dichloropropene	18.04	75	5820	0.207	ng		99
53) 4-Methyl-2-pentanone	18.10	58	3274	0.226	ng		97
54) trans-1,3-Dichloropropene	18.73	75	5693	0.220	ng		99
55) 1,1,2-Trichloroethane	18.97	97	4288	0.239	ng		93
58) Toluene	19.37	91	20984	0.250	ng		100
59) 2-Hexanone	19.68	43	7617	0.208	ng		94
60) Dibromochloromethane	19.91	129	4656	0.212	ng		94
61) 1,2-Dibromoethane	20.23	107	4816	0.218	ng		100
62) n-Butyl Acetate	20.48	43	8555	0.207	ng		92
63) n-Octane	20.65	57	3471	0.236	ng	#	81
64) Tetrachloroethene	20.85	166	6071	0.222	ng		97
65) Chlorobenzene	21.71	112	13804	0.240	ng		99
66) Ethylbenzene	22.19	91	21479	0.229	ng		97
67) m- & p-Xylenes	22.42	91	32195	0.429	ng		91
68) Bromoform	22.50	173	3485	0.161	ng		97
69) Styrene	22.87	104	12509	0.210	ng		89
70) o-Xylene	23.01	91	16660	0.218	ng		94
71) n-Nonane	23.27	43	7344	0.232	ng		90
72) 1,1,2,2-Tetrachloroethane	22.98	83	6906	0.237	ng		99
74) Cumene	23.75	105	22821	0.220	ng		97
75) alpha-Pinene	24.24	93	10121	0.206	ng		93
76) n-Propylbenzene	24.38	91	25769	0.215	ng		94
77) 3-Ethyltoluene	24.50	105	20739	0.215	ng		95
78) 4-Ethyltoluene	24.55	105	21442	0.221	ng		96
79) 1,3,5-Trimethylbenzene	24.64	105	17064	0.211	ng		94

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271007.D
Acq On : 27 Apr 2010 19:03
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:54:40 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

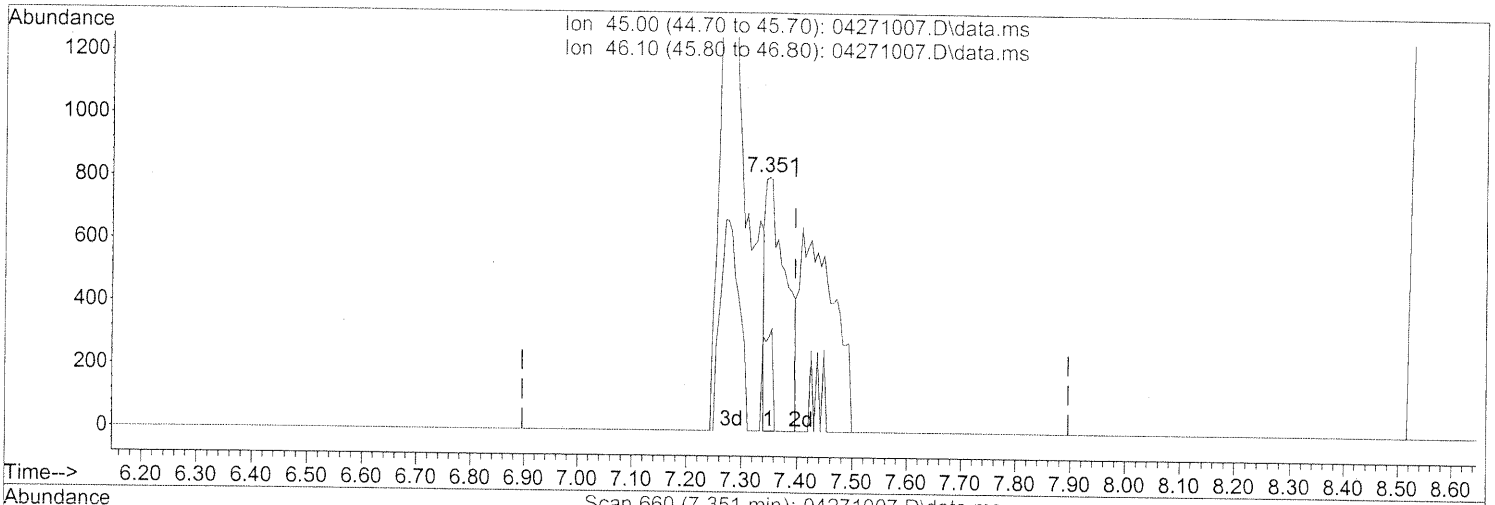
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	8332	0.182	ng		96
81) 2-Ethyltoluene	24.88	105	21313	0.212	ng		97
82) 1,2,4-Trimethylbenzene	25.15	105	16987	0.202	ng		93
83) n-Decane	25.25	57	7863	0.220	ng		90
84) Benzyl Chloride	25.31	91	10269	0.171	ng		94
85) 1,3-Dichlorobenzene	25.34	146	10877	0.210	ng		99
86) 1,4-Dichlorobenzene	25.42	146	10749	0.200	ng		99
87) sec-Butylbenzene	25.48	105	24274	0.217	ng		96
88) 4-Isopropyltoluene (p-...	25.66	119	21750	0.197	ng		94
89) 1,2,3-Trimethylbenzene	25.67	105	17065	0.200	ng		89
90) 1,2-Dichlorobenzene	25.84	146	9909	0.198	ng		99
91) d-Limonene	25.84	68	5680	0.201	ng		85
92) 1,2-Dibromo-3-Chloropr...	26.36	157	2758	0.174	ng	#	64
93) n-Undecane	26.75	57	7635	0.210	ng		90
94) 1,2,4-Trichlorobenzene	27.89	180	6853	0.184	ng		98
95) Naphthalene	28.05	128	19090	0.165	ng		97
96) n-Dodecane	28.00	57	7025	0.182	ng		91
97) Hexachlorobutadiene	28.48	225	4457	0.184	ng		99
98) Cyclohexanone	22.61	55	4655	0.182	ng	#	89
99) tert-Butylbenzene	25.15	119	18392	0.212	ng		95
100) n-Butylbenzene	26.16	91	17882	0.209	ng		95

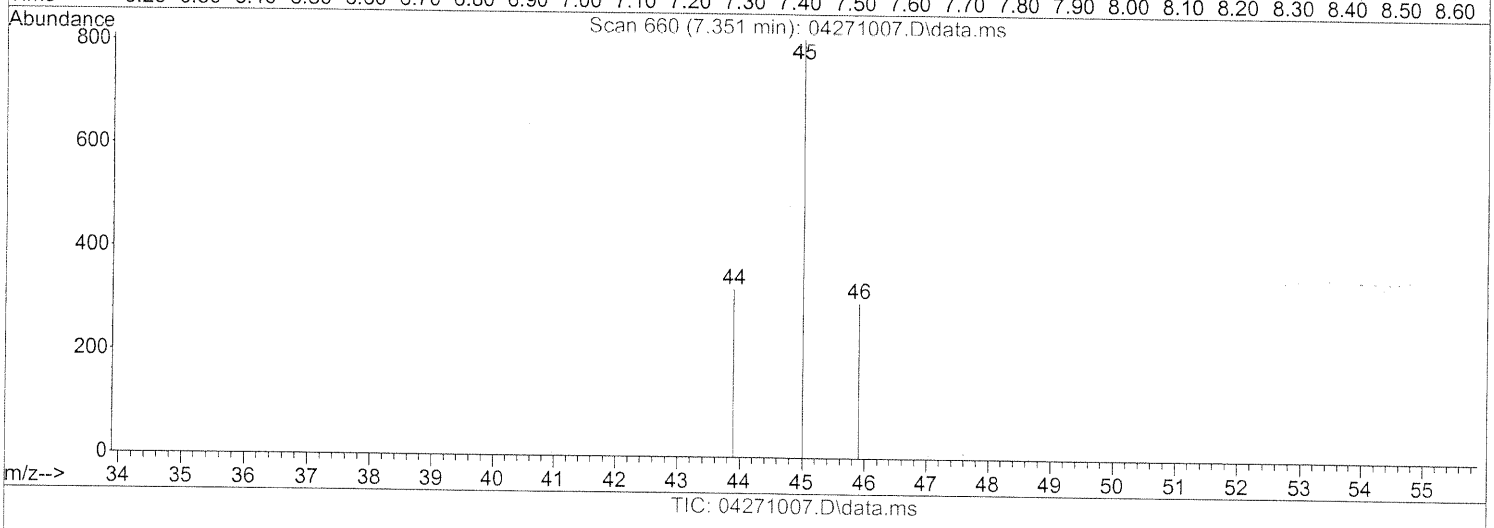
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271007.D
Acq On : 27 Apr 2010 19:03
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:51:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271007.D\data.ms

(10) Ethanol (T)

7.351min (-0.046) 0.21ng

response 2044

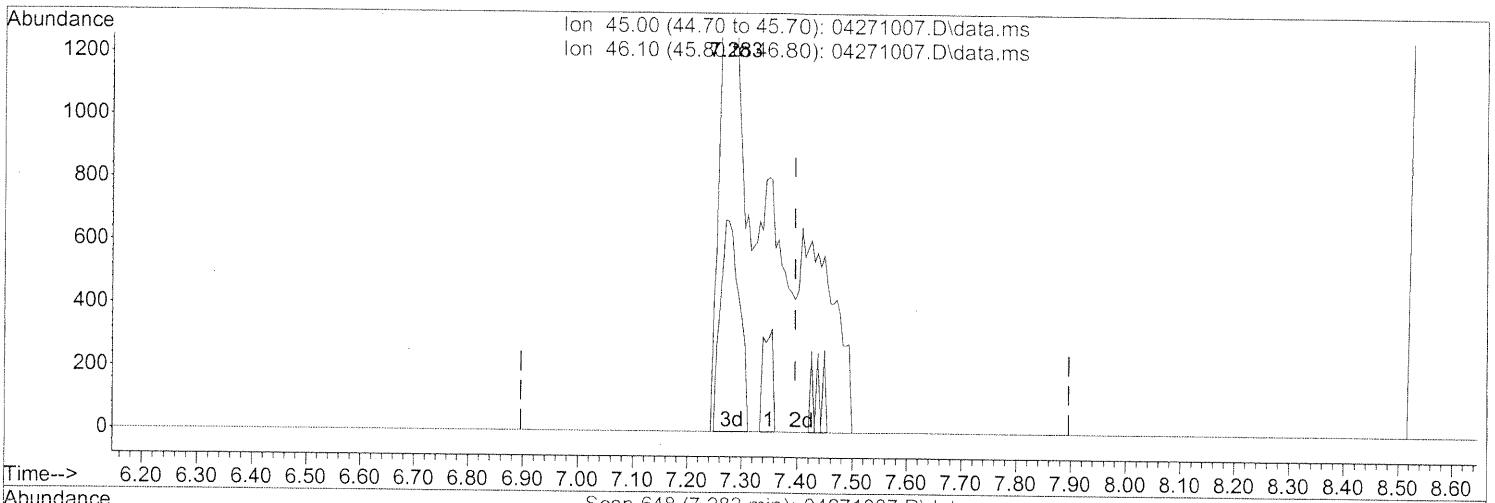
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	20.30
0.00	0.00	0.00
0.00	0.00	0.00

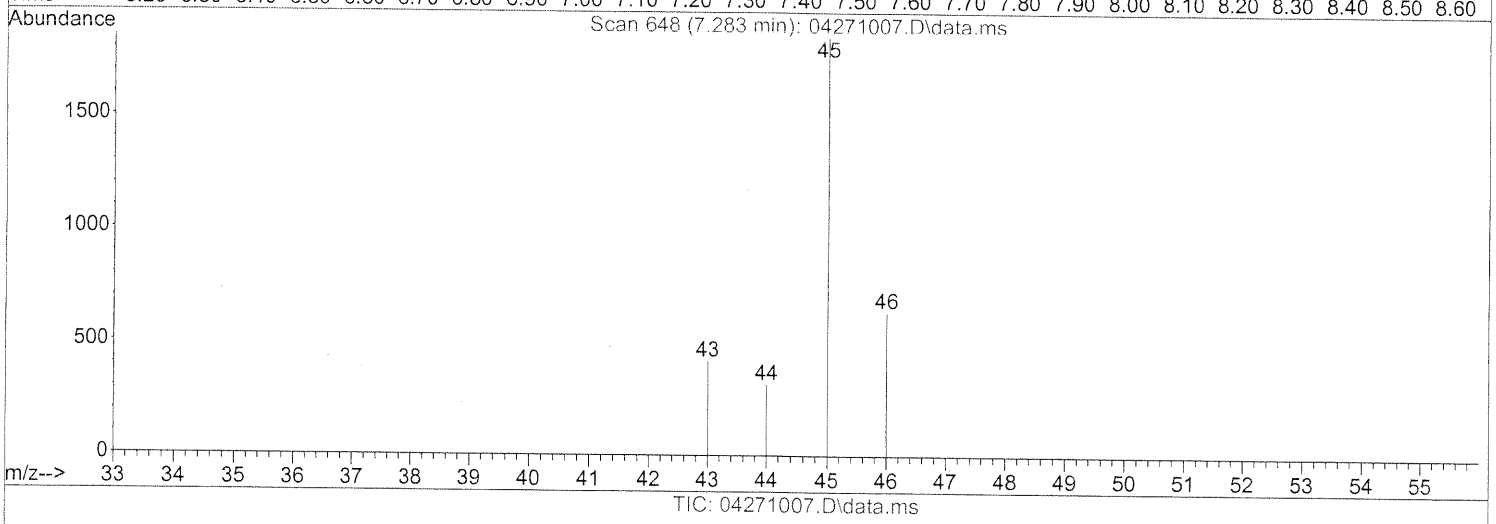
SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271007.D
Acq On : 27 Apr 2010 19:03
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:51:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271007.D\data.ms

(10) Ethanol (T)

7.283min (-0.114) 1.07ng m

response 10509

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	3.95#
0.00	0.00	0.00
0.00	0.00	0.00

SP-71C

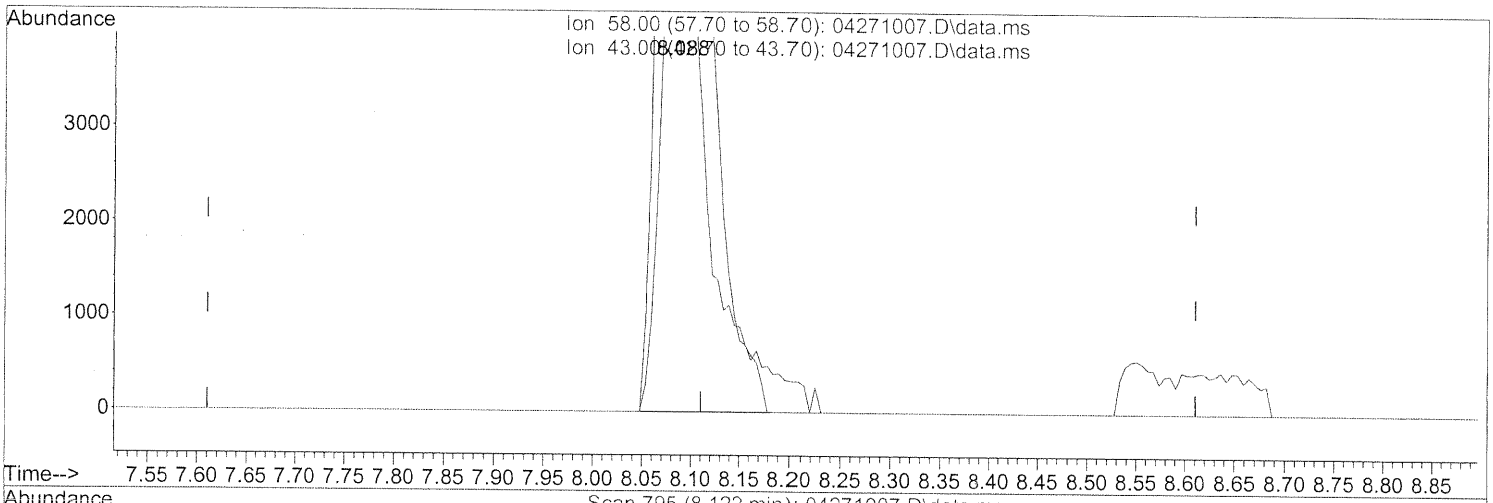
DA 4/28/10

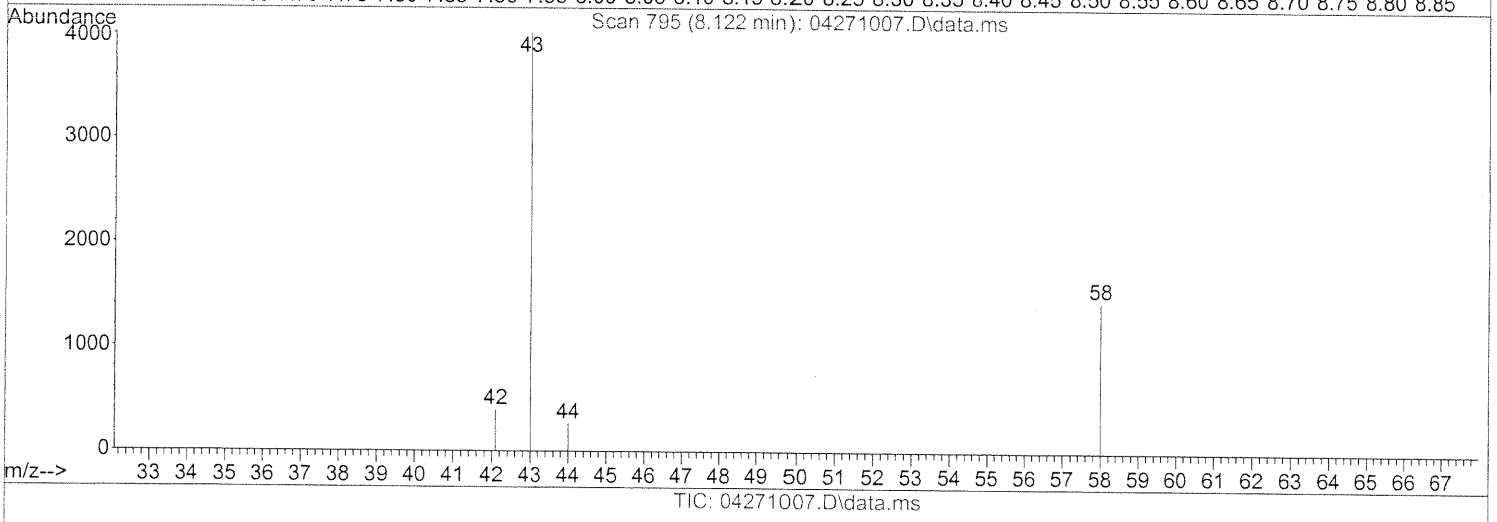
KR 4/30/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271007.D
Acq On : 27 Apr 2010 19:03
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:51:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271007.D\data.ms

(13) Acetone (T)

8.088min (-0.023) 1.52ng

response 18799

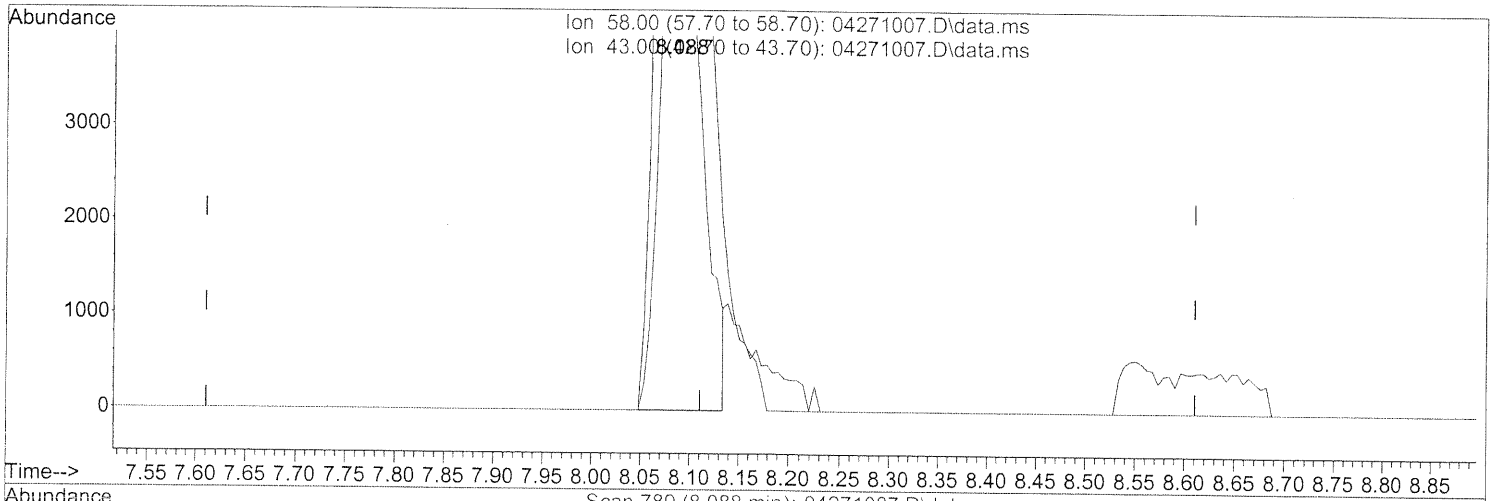
Ion	Exp%	Act%
58.00	100	100
43.00	325.00	285.77#
0.00	0.00	0.00
0.00	0.00	0.00

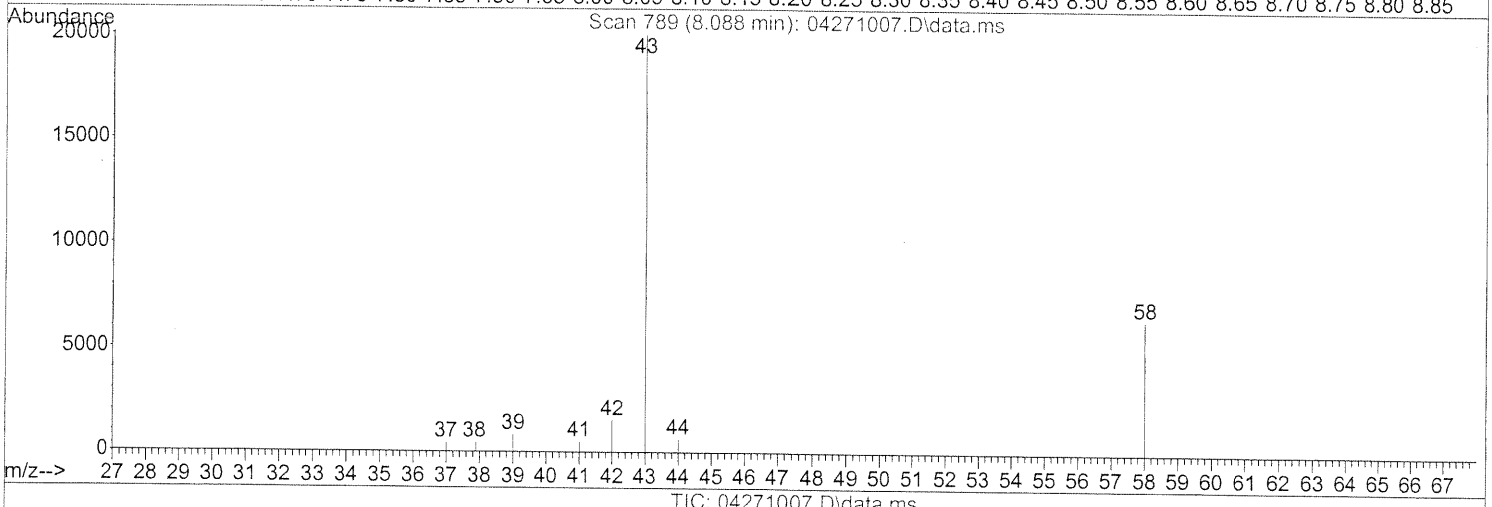
SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271007.D
Acq On : 27 Apr 2010 19:03
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191001
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 27 20:51:55 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271007.D\data.ms

(13) Acetone (T)

8.088min (-0.023) 1.38ng m

response 17074

Ion	Exp%	Act%
58.00	100	100
43.00	325.00	314.64
0.00	0.00	0.00
0.00	0.00	0.00

SR — 7IC

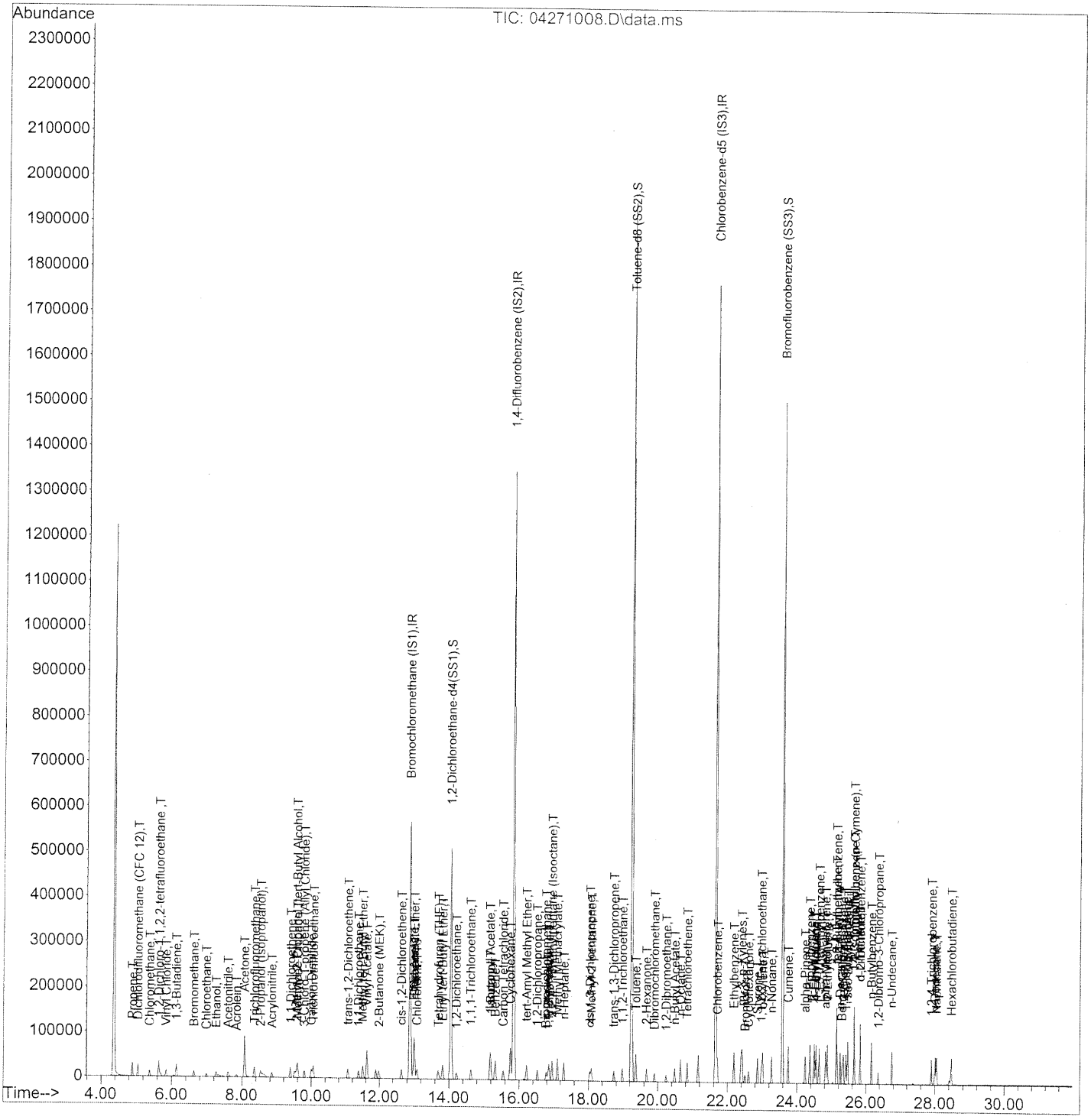
KA 4/28/10

KR 4/30/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271008.D
Acq On : 27 Apr 2010 19:45
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:01:47 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271008.D
Acq On : 27 Apr 2010 19:45
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:01:47 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	340216	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	15.84	114	1652267	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	21.65	82	687159	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	519935	24.680	ng		-0.03
Spiked Amount 25.000			Recovery =	98.72%			
57) Toluene-d8 (SS2)	19.24	98	1738318	24.224	ng		-0.01
Spiked Amount 25.000			Recovery =	96.88%			
73) Bromofluorobenzene (SS3)	23.58	174	596217	22.701	ng		-0.01
Spiked Amount 25.000			Recovery =	90.80%			
Target Compounds							Qvalue
2) Propene	4.89	42	10007	0.695	ng		98
3) Dichlorodifluoromethan...	5.05	85	28211	0.725	ng		99
4) Chloromethane	5.38	50	16651	0.752	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.64	135	16667	0.684	ng		100
6) Vinyl Chloride	5.84	62	18379	0.699	ng		99
7) 1,3-Butadiene	6.13	54	15037	0.872	ng		93
8) Bromomethane	6.63	94	11811	0.691	ng		99
9) Chloroethane	6.99	64	9085	0.728	ng		97
10) Ethanol	7.27	45	33607m	3.385	ng		
11) Acetonitrile	7.61	41	16617	0.716	ng		99
12) Acrolein	7.84	56	6840	0.786	ng		97
13) Acetone	8.07	58	48736	3.916	ng		90
14) Trichlorofluoromethane	8.36	101	25564	0.695	ng		100
15) 2-Propanol (Isopropanol)	8.53	45	53004	1.421	ng		92
16) Acrylonitrile	8.85	53	13276	0.718	ng		98
17) 1,1-Dichloroethene	9.40	96	13177	0.762	ng	#	72
18) 2-Methyl-2-Propanol (t...	9.57	59	60126	1.384	ng		98
19) Methylene Chloride	9.59	84	13784	0.741	ng	#	74
20) 3-Chloro-1-propene (Al...	9.79	41	13240	0.782	ng		81
21) Trichlorotrifluoroethane	10.06	151	13270	0.719	ng	#	76
22) Carbon Disulfide	10.00	76	42889	0.709	ng		99
23) trans-1,2-Dichloroethene	11.07	61	16430	0.722	ng		76
24) 1,1-Dichloroethane	11.38	63	21737	0.777	ng		99
25) Methyl tert-Butyl Ether	11.50	73	39016	0.717	ng		91
26) Vinyl Acetate	11.63	86	13615	4.905	ng	#	31
27) 2-Butanone (MEK)	11.99	72	8595	0.730	ng	#	73
28) cis-1,2-Dichloroethene	12.65	61	16595	0.751	ng		77
29) Diisopropyl Ether	13.01	87	11717	0.739	ng	#	29
30) Ethyl Acetate	12.99	61	8695	1.464	ng		88
31) n-Hexane	13.02	57	21226	0.770	ng	#	96

4/28/10

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271008.D
Acq On : 27 Apr 2010 19:45
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:01:47 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.09	83	23084	0.740	ng		100
34) Tetrahydrofuran (THF)	13.70	72	8172	0.734	ng	#	79
35) Ethyl tert-Butyl Ether	13.82	87	15991	0.672	ng	#	74
36) 1,2-Dichloroethane	14.21	62	17043	0.703	ng		99
38) 1,1,1-Trichloroethane	14.62	97	20824	0.691	ng		96
39) Isopropyl Acetate	15.17	61	14285	1.414	ng		93
40) 1-Butanol	15.19	56	20796	1.169	ng	#	77
41) Benzene	15.32	78	56224	0.785	ng		97
42) Carbon Tetrachloride	15.55	117	17272	0.654	ng		96
43) Cyclohexane	15.75	84	42886	1.502	ng	#	77
44) tert-Amyl Methyl Ether	16.21	73	36044	0.681	ng		93
45) 1,2-Dichloropropane	16.52	63	12255	0.758	ng		97
46) Bromodichloromethane	16.78	83	16637	0.691	ng		98
47) Trichloroethene	16.86	130	15846	0.676	ng		100
48) 1,4-Dioxane	16.83	88	10756	0.700	ng		82
49) 2,2,4-Trimethylpentane...	16.95	57	50383	0.734	ng		98
50) Methyl Methacrylate	17.11	100	11352	1.335	ng	#	61
51) n-Heptane	17.30	71	13603	0.752	ng		88
52) cis-1,3-Dichloropropene	18.04	75	17512	0.624	ng		98
53) 4-Methyl-2-pentanone	18.08	58	10600	0.731	ng	#	89
54) trans-1,3-Dichloropropene	18.73	75	17971	0.695	ng		99
55) 1,1,2-Trichloroethane	18.98	97	13139	0.733	ng		93
58) Toluene	19.37	91	60277	0.719	ng		99
59) 2-Hexanone	19.67	43	24463	0.669	ng		91
60) Dibromochloromethane	19.91	129	14388	0.658	ng		100
61) 1,2-Dibromoethane	20.24	107	14562	0.660	ng		98
62) n-Butyl Acetate	20.48	43	27417	0.666	ng		94
63) n-Octane	20.65	57	10347	0.706	ng	#	78
64) Tetrachloroethene	20.84	166	17494	0.640	ng		100
65) Chlorobenzene	21.71	112	40381	0.706	ng		99
66) Ethylbenzene	22.19	91	63067	0.674	ng		95
67) m- & p-Xylenes	22.41	91	97470	1.302	ng		92
68) Bromoform	22.51	173	11634	0.538	ng		96
69) Styrene	22.87	104	37678	0.634	ng		94
70) o-Xylene	23.01	91	50189	0.660	ng		92
71) n-Nonane	23.27	43	21714	0.687	ng		87
72) 1,1,2,2-Tetrachloroethane	22.98	83	21357	0.736	ng		97
74) Cumene	23.75	105	67590	0.652	ng		97
75) alpha-Pinene	24.24	93	29284	0.599	ng		94
76) n-Propylbenzene	24.37	91	78907	0.660	ng		94
77) 3-Ethyltoluene	24.50	105	64424	0.668	ng		96
78) 4-Ethyltoluene	24.55	105	66213	0.685	ng		95
79) 1,3,5-Trimethylbenzene	24.64	105	51902	0.644	ng		92

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271008.D
Acq On : 27 Apr 2010 19:45
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:01:47 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

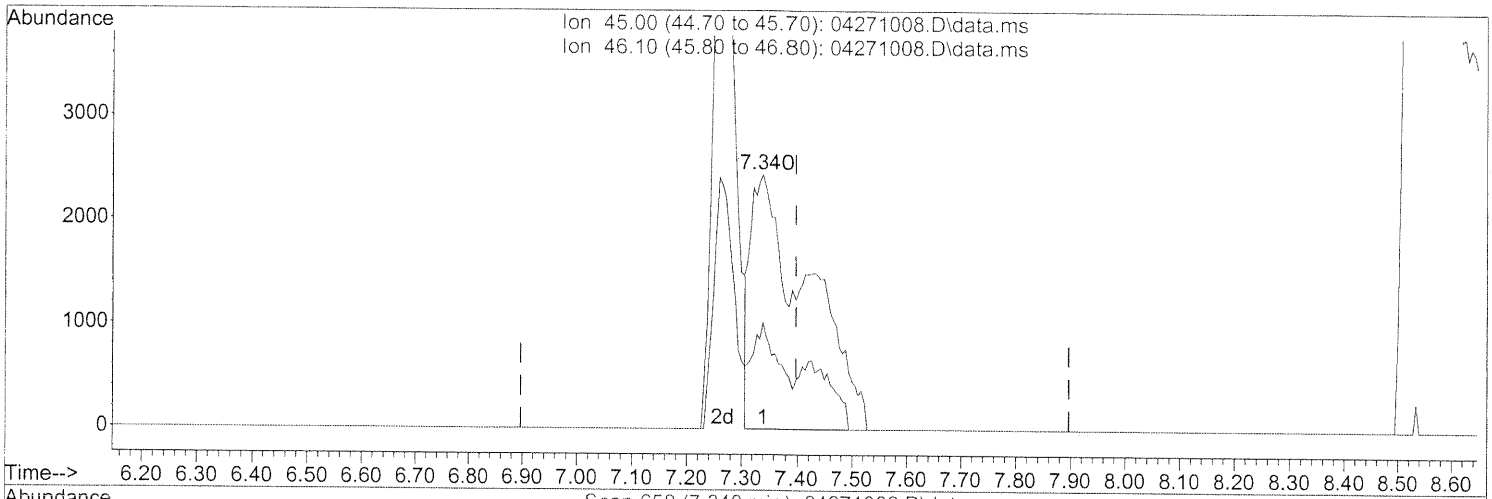
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	27289	0.597	ng		97
81) 2-Ethyltoluene	24.88	105	65077	0.648	ng		95
82) 1,2,4-Trimethylbenzene	25.15	105	52917	0.632	ng		92
83) n-Decane	25.25	57	23805	0.669	ng		87
84) Benzyl Chloride	25.31	91	35549	0.592	ng		92
85) 1,3-Dichlorobenzene	25.34	146	33418	0.648	ng		98
86) 1,4-Dichlorobenzene	25.42	146	33748	0.629	ng		99
87) sec-Butylbenzene	25.47	105	73382	0.657	ng		95
88) 4-Isopropyltoluene (p-...	25.66	119	68007	0.618	ng		92
89) 1,2,3-Trimethylbenzene	25.66	105	53786	0.633	ng		90
90) 1,2-Dichlorobenzene	25.84	146	31535	0.633	ng		99
91) d-Limonene	25.83	68	17852	0.633	ng		82
92) 1,2-Dibromo-3-Chloropr...	26.36	157	9110	0.577	ng	#	70
93) n-Undecane	26.75	57	22871	0.631	ng		90
94) 1,2,4-Trichlorobenzene	27.90	180	21460	0.579	ng		99
95) Naphthalene	28.05	128	58965	0.511	ng		99
96) n-Dodecane	28.00	57	19352	0.502	ng		89
97) Hexachlorobutadiene	28.48	225	14156	0.586	ng		100
98) Cyclohexanone	22.61	55	14314	0.563	ng	#	87
99) tert-Butylbenzene	25.15	119	55346	0.641	ng		95
100) n-Butylbenzene	26.16	91	55804	0.653	ng	#	96

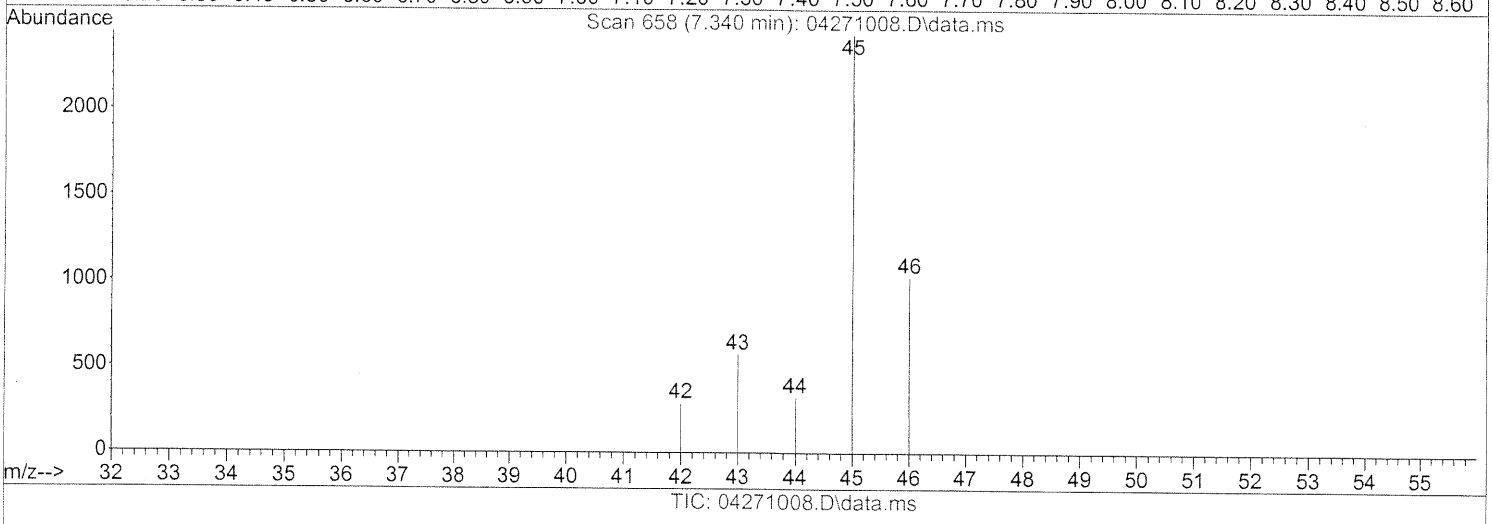
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271008.D
Acq On : 27 Apr 2010 19:45
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:01:03 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271008.D\data.ms

(10) Ethanol (T)

7.340min (-0.057) 1.79ng

response 17731

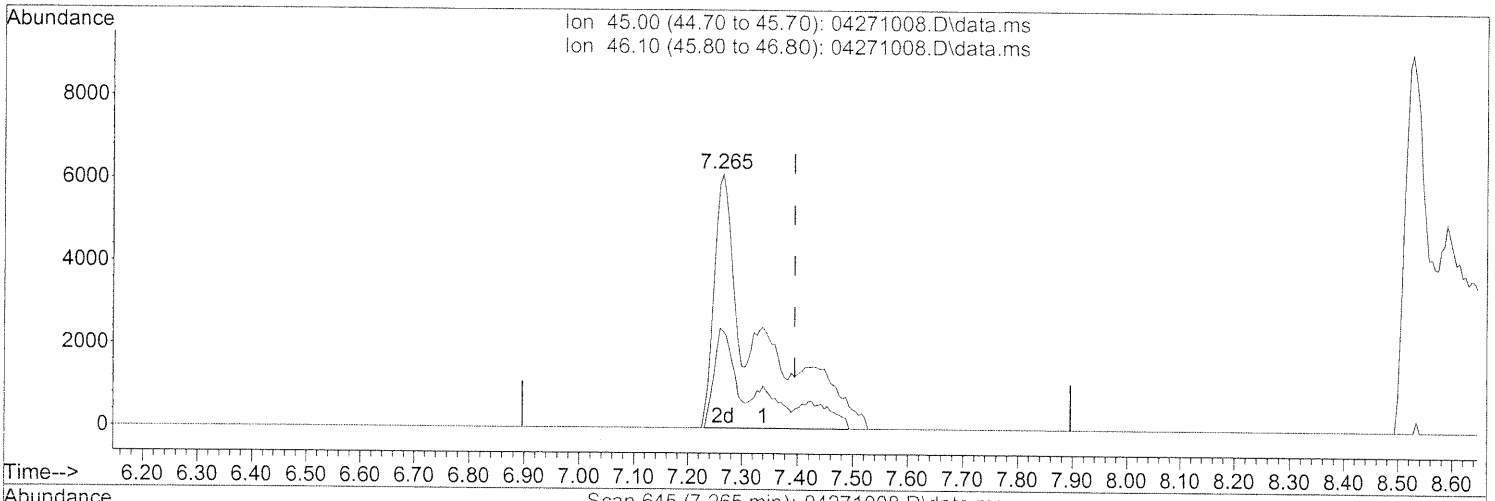
SP

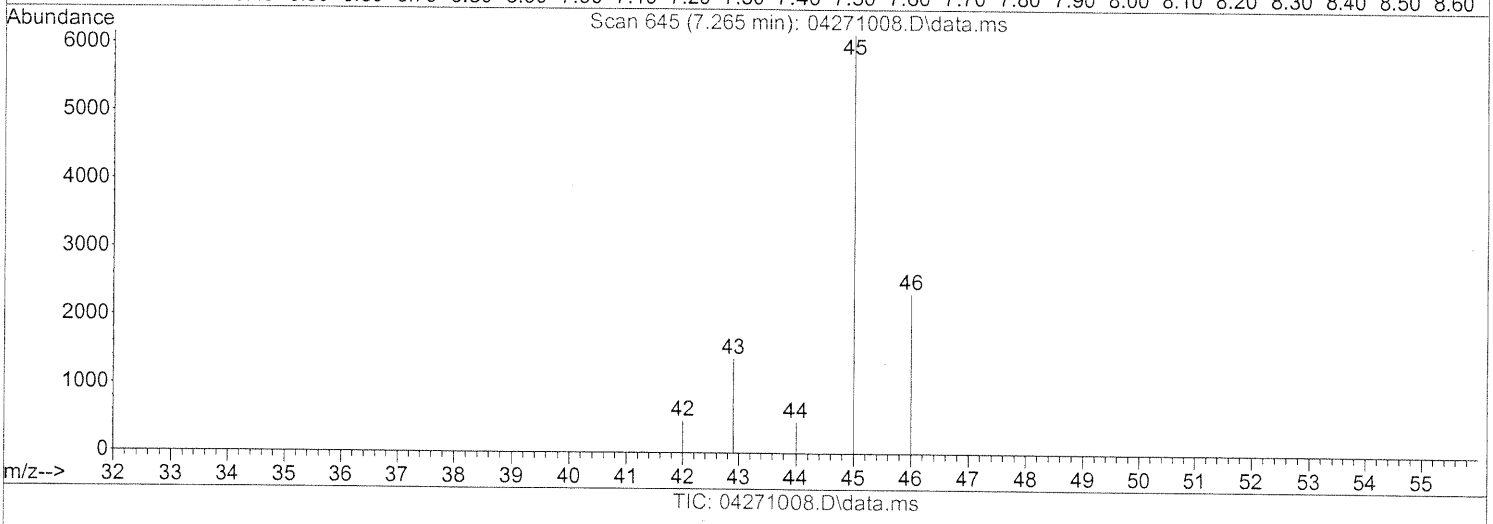
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	19.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271008.D
Acq On : 27 Apr 2010 19:45
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:01:03 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271008.D\data.ms

(10) Ethanol (T)

7.265min (-0.132) 3.39ng m

response 33607

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	10.22#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

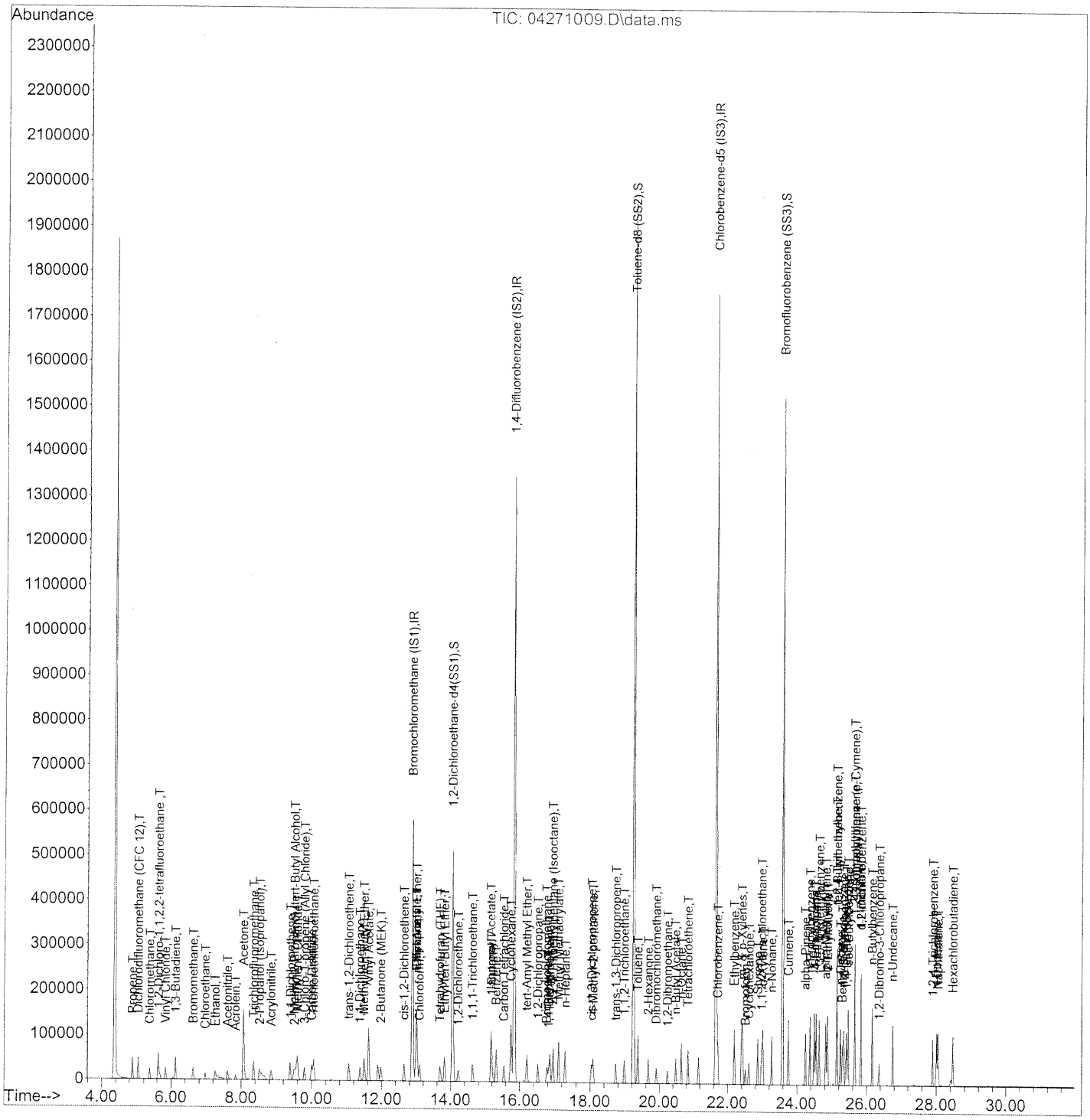
JDH 4/28/10

KE 4/30/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271009.D
Acq On : 27 Apr 2010 20:27
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:04:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271009.D
Acq On : 27 Apr 2010 20:27
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:04:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	341944	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	15.84	114	1655237	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	21.65	82	686435	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	521722	24.640	ng		-0.03
Spiked Amount 25.000			Recovery =	98.56%			
57) Toluene-d8 (SS2)	19.24	98	1737091	24.232	ng		-0.01
Spiked Amount 25.000			Recovery =	96.92%			
73) Bromofluorobenzene (SS3)	23.58	174	598169	22.799	ng		-0.01
Spiked Amount 25.000			Recovery =	91.20%			
Target Compounds							Qvalue
2) Propene	4.88	42	17718	1.224	ng		98
3) Dichlorodifluoromethan...	5.04	85	49258	1.259	ng		99
4) Chloromethane	5.37	50	29235	1.313	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.64	135	29058	1.187	ng		99
6) Vinyl Chloride	5.84	62	31857	1.206	ng		99
7) 1,3-Butadiene	6.13	54	26872	1.550	ng		92
8) Bromomethane	6.63	94	21512	1.251	ng		100
9) Chloroethane	6.98	64	16420	1.309	ng		98
10) Ethanol	7.26	45	59459m	5.959	ng		
11) Acetonitrile	7.61	41	29965	1.284	ng		95
12) Acrolein	7.84	56	11507	1.316	ng		99
13) Acetone	8.06	58	84009	6.716	ng		91
14) Trichlorofluoromethane	8.35	101	44540	1.205	ng		99
15) 2-Propanol (Isopropanol)	8.52	45	95580	2.550	ng		93
16) Acrylonitrile	8.85	53	24480	1.317	ng		98
17) 1,1-Dichloroethene	9.40	96	23378	1.344	ng	#	70
18) 2-Methyl-2-Propanol (t...	9.51	59	106891	2.447	ng	#	77
19) Methylene Chloride	9.59	84	23873	1.277	ng	#	72
20) 3-Chloro-1-propene (Al...	9.80	41	24250	1.425	ng		82
21) Trichlorotrifluoroethane	10.06	151	23199	1.250	ng	#	75
22) Carbon Disulfide	10.00	76	77277	1.271	ng		99
23) trans-1,2-Dichloroethene	11.06	61	29079	1.271	ng		75
24) 1,1-Dichloroethane	11.38	63	38481	1.369	ng		100
25) Methyl tert-Butyl Ether	11.50	73	69531	1.271	ng		92
26) Vinyl Acetate	11.62	86	26175	9.383	ng	#	26
27) 2-Butanone (MEK)	11.98	72	15554	1.314	ng	#	69
28) cis-1,2-Dichloroethene	12.65	61	29198	1.315	ng	#	75
29) Diisopropyl Ether	13.01	87	20394	1.280	ng	#	35
30) Ethyl Acetate	12.99	61	15731	2.636	ng		91
31) n-Hexane	13.01	57	38015	1.373	ng	#	96

DH 4/28/10

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271009.D
Acq On : 27 Apr 2010 20:27
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:04:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.09	83	40955	1.307	ng		99
34) Tetrahydrofuran (THF)	13.69	72	15116	1.351	ng	#	77
35) Ethyl tert-Butyl Ether	13.82	87	28801	1.204	ng	#	74
36) 1,2-Dichloroethane	14.22	62	30349	1.246	ng		98
38) 1,1,1-Trichloroethane	14.63	97	36634	1.213	ng		95
39) Isopropyl Acetate	15.17	61	26364	2.605	ng	#	90
40) 1-Butanol	15.18	56	37277	2.092	ng		79
41) Benzene	15.32	78	98364	1.370	ng		98
42) Carbon Tetrachloride	15.55	117	31361	1.186	ng		100
43) Cyclohexane	15.75	84	75898	2.654	ng	#	78
44) tert-Amyl Methyl Ether	16.21	73	65349	1.232	ng		93
45) 1,2-Dichloropropane	16.53	63	21461	1.325	ng		98
46) Bromodichloromethane	16.78	83	30327	1.257	ng		99
47) Trichloroethene	16.86	130	28127	1.198	ng		99
48) 1,4-Dioxane	16.82	88	19565	1.271	ng		81
49) 2,2,4-Trimethylpentane...	16.95	57	90583	1.318	ng		98
50) Methyl Methacrylate	17.11	100	21112	2.479	ng	#	60
51) n-Heptane	17.30	71	23720	1.308	ng		89
52) cis-1,3-Dichloropropene	18.04	75	32345	1.151	ng		100
53) 4-Methyl-2-pentanone	18.08	58	19593	1.349	ng	#	88
54) trans-1,3-Dichloropropene	18.74	75	31973	1.235	ng		99
55) 1,1,2-Trichloroethane	18.98	97	23350	1.300	ng		91
58) Toluene	19.37	91	106298	1.270	ng		99
59) 2-Hexanone	19.67	43	44979	1.231	ng		91
60) Dibromochloromethane	19.91	129	25678	1.175	ng		97
61) 1,2-Dibromoethane	20.24	107	26475	1.202	ng		98
62) n-Butyl Acetate	20.48	43	50177	1.221	ng		93
63) n-Octane	20.65	57	19222	1.314	ng	#	82
64) Tetrachloroethene	20.85	166	30585	1.120	ng		99
65) Chlorobenzene	21.71	112	69510	1.216	ng		99
66) Ethylbenzene	22.19	91	113785	1.217	ng		96
67) m- & p-Xylenes	22.40	91	176430	2.359	ng		93
68) Bromoform	22.51	173	21016	0.974	ng		100
69) Styrene	22.87	104	70042	1.179	ng		93
70) o-Xylene	23.01	91	91418	1.203	ng		94
71) n-Nonane	23.27	43	39553	1.252	ng		85
72) 1,1,2,2-Tetrachloroethane	22.98	83	38812	1.338	ng		97
74) Cumene	23.75	105	121198	1.171	ng		96
75) alpha-Pinene	24.24	93	54425	1.114	ng		95
76) n-Propylbenzene	24.37	91	143084	1.199	ng		95
77) 3-Ethyltoluene	24.50	105	118692	1.233	ng		98
78) 4-Ethyltoluene	24.55	105	121369	1.256	ng		96
79) 1,3,5-Trimethylbenzene	24.64	105	96313	1.196	ng		94

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271009.D
Acq On : 27 Apr 2010 20:27
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:04:38 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

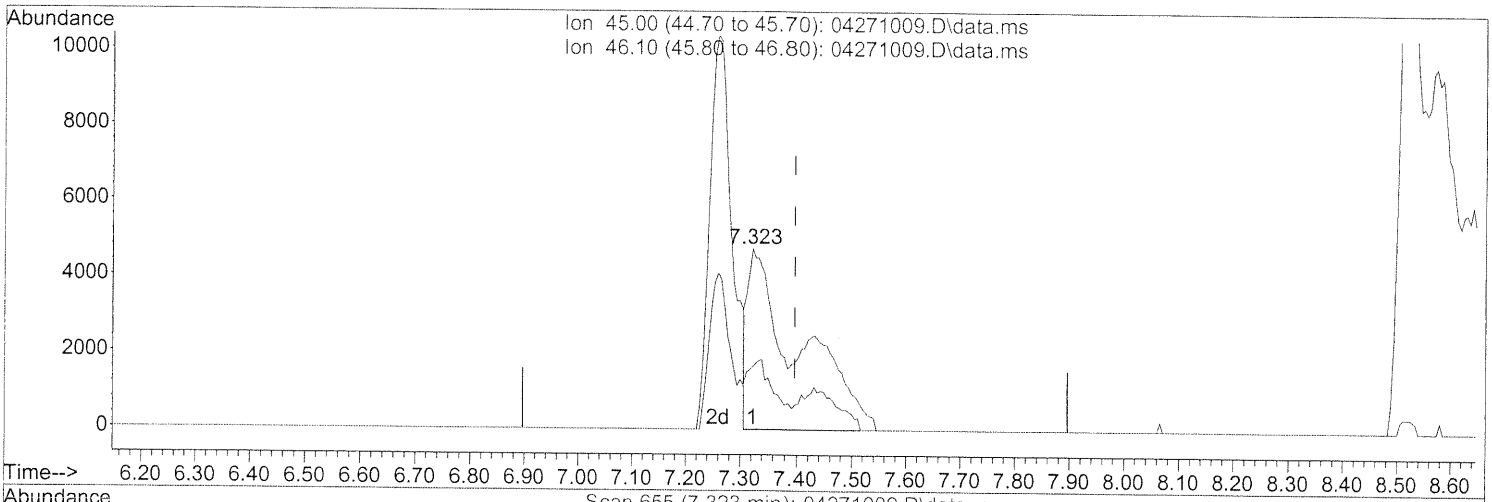
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	52189	1.143	ng		95
81) 2-Ethyltoluene	24.88	105	119022	1.187	ng		95
82) 1,2,4-Trimethylbenzene	25.15	105	96735	1.157	ng		91
83) n-Decane	25.24	57	44585	1.255	ng		88
84) Benzyl Chloride	25.31	91	69445	1.158	ng		92
85) 1,3-Dichlorobenzene	25.34	146	60363	1.172	ng		99
86) 1,4-Dichlorobenzene	25.42	146	60782	1.135	ng		100
87) sec-Butylbenzene	25.47	105	134038	1.202	ng		95
88) 4-Isopropyltoluene (p-...	25.66	119	125254	1.140	ng		93
89) 1,2,3-Trimethylbenzene	25.67	105	98266	1.157	ng		90
90) 1,2-Dichlorobenzene	25.84	146	56516	1.135	ng		98
91) d-Limonene	25.84	68	33192	1.178	ng		80
92) 1,2-Dibromo-3-Chloropr...	26.36	157	17539	1.111	ng	#	65
93) n-Undecane	26.75	57	42560	1.176	ng		88
94) 1,2,4-Trichlorobenzene	27.90	180	38770	1.047	ng		99
95) Naphthalene	28.05	128	111848	0.971	ng		99
96) n-Dodecane	28.00	57	36323	0.943	ng		88
97) Hexachlorobutadiene	28.47	225	25823	1.071	ng		100
98) Cyclohexanone	22.61	55	26177	1.030	ng	#	88
99) tert-Butylbenzene	25.15	119	102870	1.192	ng		96
100) n-Butylbenzene	26.16	91	103825	1.217	ng	#	96

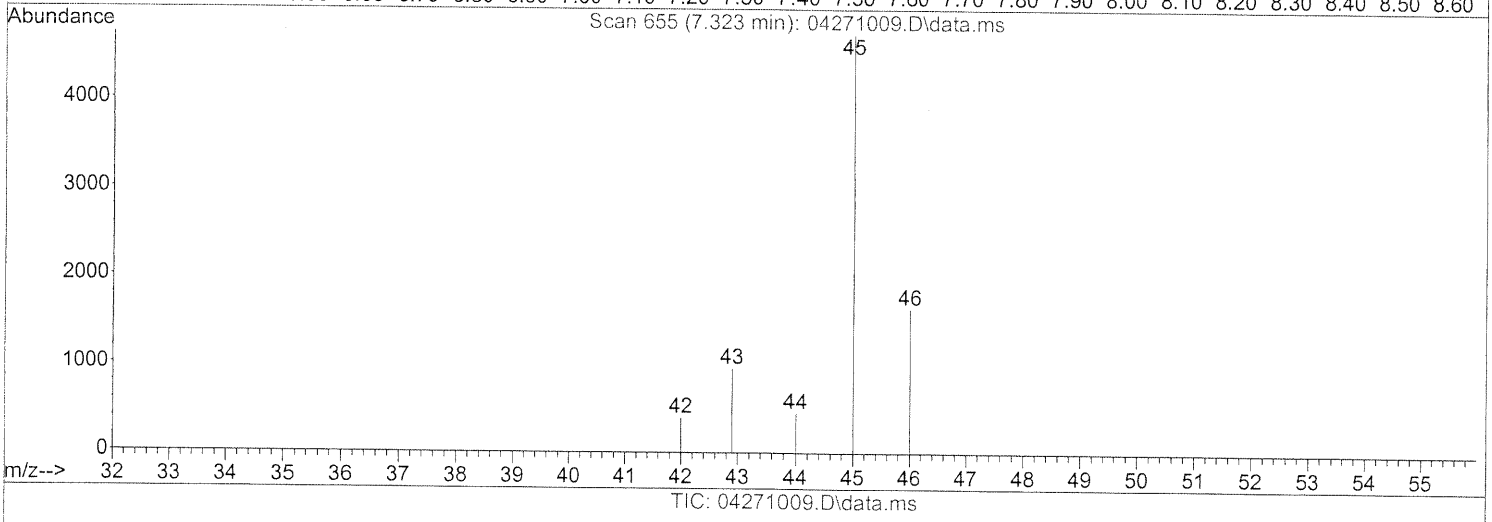
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271009.D
Acq On : 27 Apr 2010 20:27
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:03:58 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271009.D\data.ms

(10) Ethanol (T)

7.323min (-0.074) 3.04ng

response 30334

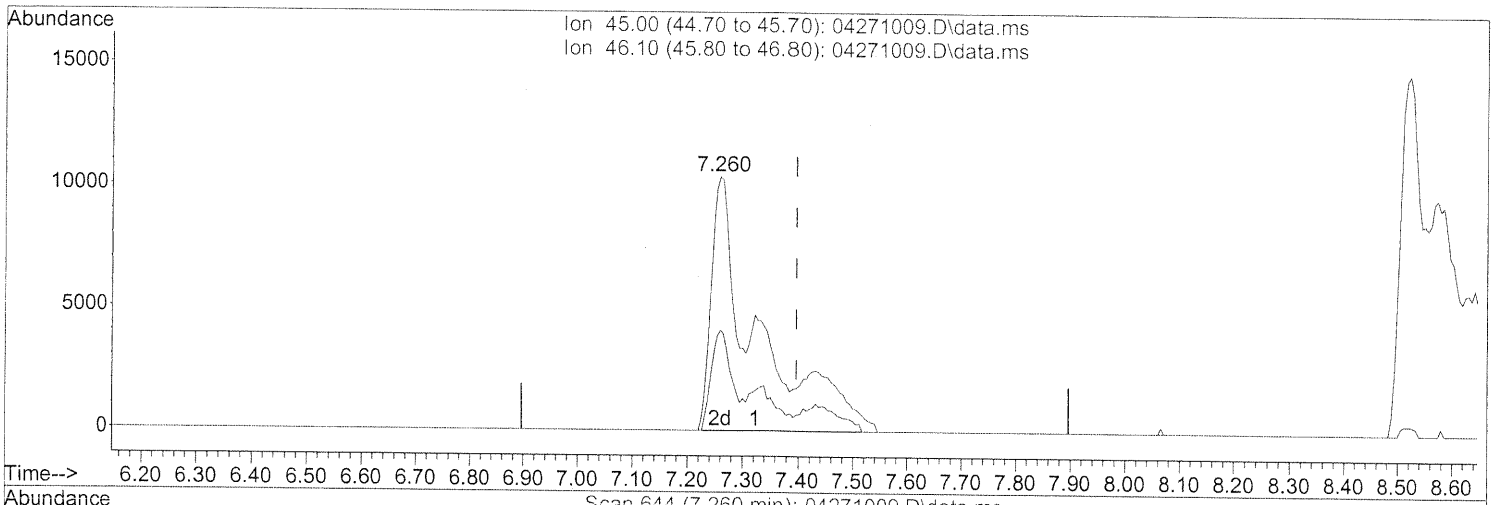
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	20.75
0.00	0.00	0.00
0.00	0.00	0.00

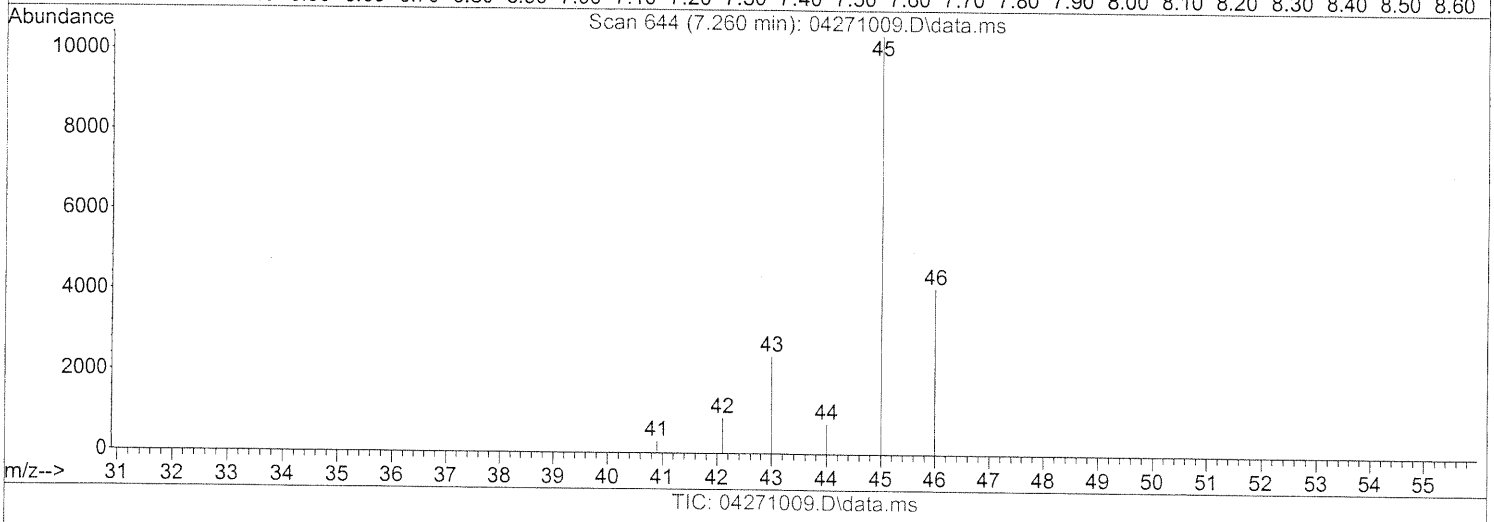
SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271009.D
Acq On : 27 Apr 2010 20:27
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 21:03:58 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271009.D\data.ms

(10) Ethanol (T)

7.260min (-0.137) 5.96ng m

response 59459

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	10.59#
0.00	0.00	0.00
0.00	0.00	0.00

SP—7 IC

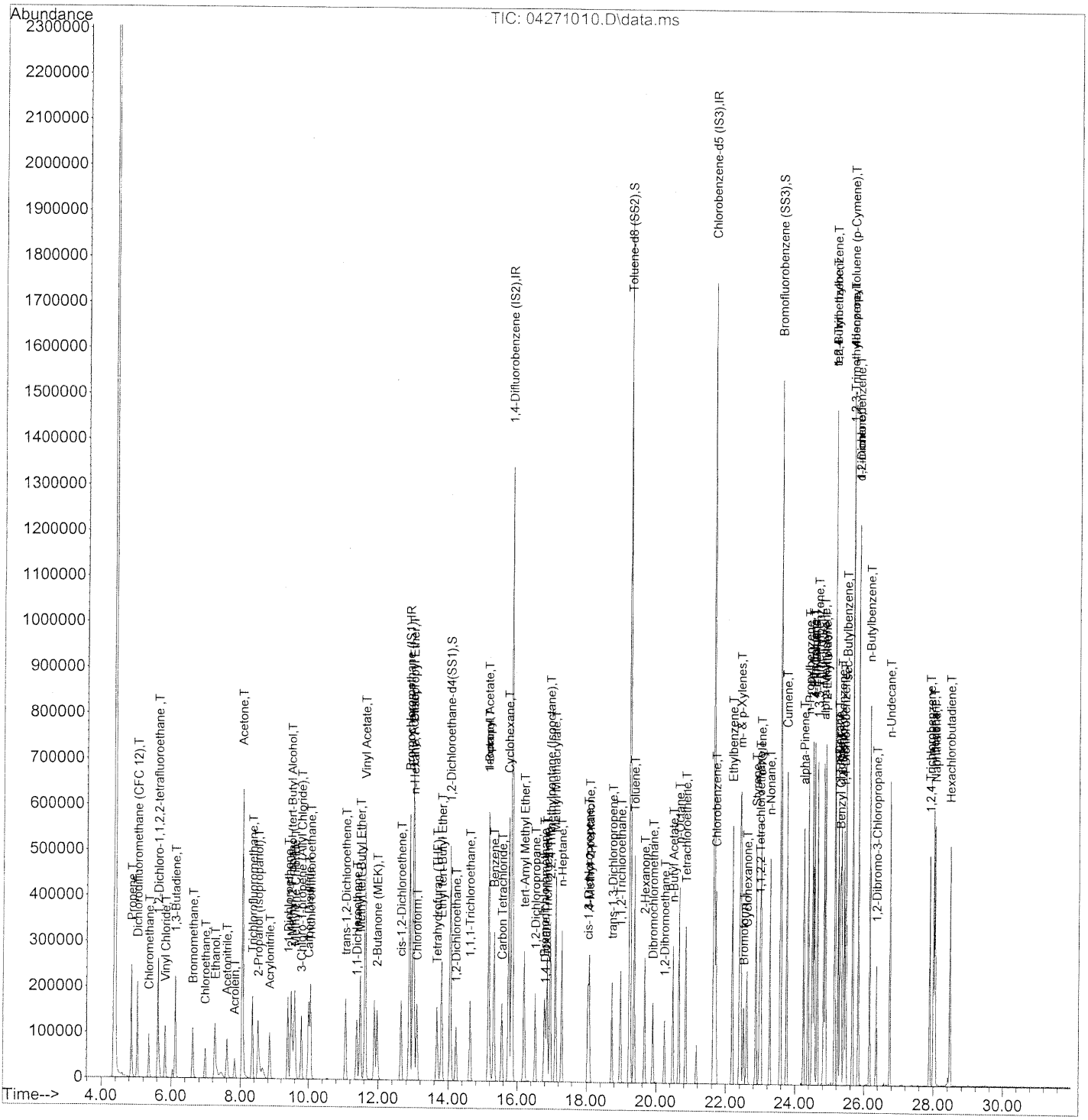
4/28/10

KR 4/30/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271010.D
Acq On : 27 Apr 2010 21:09
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:03:03 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271010.D
Acq On : 27 Apr 2010 21:09
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:03:03 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.89	130	340569	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.85	114	1653155	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.66	82	690075	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.05	65	517691	24.548	ng		-0.03
Spiked Amount 25.000			Recovery =	98.20%			
57) Toluene-d8 (SS2)	19.24	98	1734831	24.073	ng		-0.01
Spiked Amount 25.000			Recovery =	96.28%			
73) Bromofluorobenzene (SS3)	23.58	174	608654	23.076	ng		-0.01
Spiked Amount 25.000			Recovery =	92.32%			
Target Compounds							Qvalue
2) Propene	4.86	42	105090	7.291	ng		99
3) Dichlorodifluoromethan...	5.03	85	223597	5.737	ng		99
4) Chloromethane	5.36	50	122084	5.506	ng		100
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	131668	5.399	ng		100
6) Vinyl Chloride	5.83	62	148023	5.627	ng		99
7) 1,3-Butadiene	6.12	54	127471	7.385	ng		92
8) Bromomethane	6.62	94	96951	5.663	ng		99
9) Chloroethane	6.97	64	75213	6.019	ng		99
10) Ethanol	7.27	45	277405m	27.914	ng		
11) Acetonitrile	7.60	41	139902	6.018	ng		99
12) Acrolein	7.83	56	52583	6.040	ng		99
13) Acetone	8.05	58	370824	29.766	ng		89
14) Trichlorofluoromethane	8.35	101	202490	5.499	ng		100
15) 2-Propanol (Isopropanol)	8.52	45	344507m	9.228	ng		
16) Acrylonitrile	8.85	53	117564	6.348	ng		99
17) 1,1-Dichloroethene	9.39	96	106488	6.148	ng	#	73
18) 2-Methyl-2-Propanol (t...	9.49	59	505214	11.613	ng		97
19) Methylene Chloride	9.60	84	107505	5.773	ng	#	73
20) 3-Chloro-1-propene (Al...	9.79	41	119315	7.038	ng		79
21) Trichlorotrifluoroethane	10.06	151	105487	5.706	ng	#	75
22) Carbon Disulfide	10.00	76	371662	6.136	ng		99
23) trans-1,2-Dichloroethene	11.07	61	137577	6.040	ng		76
24) 1,1-Dichloroethane	11.38	63	176782	6.313	ng		100
25) Methyl tert-Butyl Ether	11.48	73	329483	6.045	ng		92
26) Vinyl Acetate	11.62	86	130636	47.016	ng	#	25
27) 2-Butanone (MEK)	11.97	72	76094	6.456	ng	#	65
28) cis-1,2-Dichloroethene	12.65	61	137024	6.197	ng		75
29) Diisopropyl Ether	13.00	87	96272	6.066	ng	#	35
30) Ethyl Acetate	12.98	61	76940	12.943	ng		90
31) n-Hexane	13.01	57	176596	6.403	ng	#	98

DA 4/28/10

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271010.D
Acq On : 27 Apr 2010 21:09
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:03:03 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.10	83	185811	5.954	ng		99
34) Tetrahydrofuran (THF)	13.67	72	71198	6.389	ng	#	75
35) Ethyl tert-Butyl Ether	13.81	87	136383	5.723	ng	#	75
36) 1,2-Dichloroethane	14.22	62	138089	5.693	ng		99
38) 1,1,1-Trichloroethane	14.62	97	168830	5.599	ng		95
39) Isopropyl Acetate	15.16	61	130344	12.897	ng	#	89
40) 1-Butanol	15.17	56	187014	10.509	ng		84
41) Benzene	15.32	78	446527	6.227	ng		98
42) Carbon Tetrachloride	15.55	117	147245	5.576	ng		99
43) Cyclohexane	15.75	84	356144	12.469	ng	#	78
44) tert-Amyl Methyl Ether	16.20	73	314005	5.929	ng		92
45) 1,2-Dichloropropane	16.53	63	100345	6.202	ng		98
46) Bromodichloromethane	16.78	83	144509	5.998	ng		99
47) Trichloroethene	16.86	130	127267	5.430	ng		99
48) 1,4-Dioxane	16.81	88	93054	6.052	ng		81
49) 2,2,4-Trimethylpentane...	16.95	57	425143	6.194	ng		95
50) Methyl Methacrylate	17.11	100	104465	12.281	ng	#	62
51) n-Heptane	17.30	71	112932	6.237	ng		88
52) cis-1,3-Dichloropropene	18.04	75	159554	5.684	ng		100
53) 4-Methyl-2-pentanone	18.07	58	97321	6.711	ng	#	86
54) trans-1,3-Dichloropropene	18.74	75	162299	6.275	ng		99
55) 1,1,2-Trichloroethane	18.98	97	107914	6.016	ng		93
58) Toluene	19.37	91	492555	5.852	ng		99
59) 2-Hexanone	19.67	43	221509	6.032	ng		91
60) Dibromochloromethane	19.91	129	129023	5.873	ng		99
61) 1,2-Dibromoethane	20.24	107	125096	5.649	ng		99
62) n-Butyl Acetate	20.48	43	253244	6.128	ng		93
63) n-Octane	20.65	57	89851	6.108	ng	#	78
64) Tetrachloroethene	20.85	166	142343	5.187	ng		99
65) Chlorobenzene	21.71	112	323187	5.623	ng		99
66) Ethylbenzene	22.19	91	538548	5.729	ng		95
67) m- & p-Xylenes	22.42	91	837523	11.141	ng		92
68) Bromoform	22.51	173	108704	5.010	ng		100
69) Styrene	22.87	104	345330	5.784	ng		93
70) o-Xylene	23.01	91	430186	5.633	ng		92
71) n-Nonane	23.27	43	189789	5.977	ng		85
72) 1,1,2,2-Tetrachloroethane	22.98	83	187595	6.433	ng		98
74) Cumene	23.75	105	572369	5.501	ng		96
75) alpha-Pinene	24.24	93	270414	5.504	ng		93
76) n-Propylbenzene	24.37	91	682216	5.686	ng		94
77) 3-Ethyltoluene	24.50	105	565246	5.841	ng		96
78) 4-Ethyltoluene	24.55	105	577024	5.942	ng		95
79) 1,3,5-Trimethylbenzene	24.64	105	463943	5.729	ng		92

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271010.D
Acq On : 27 Apr 2010 21:09
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:03:03 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

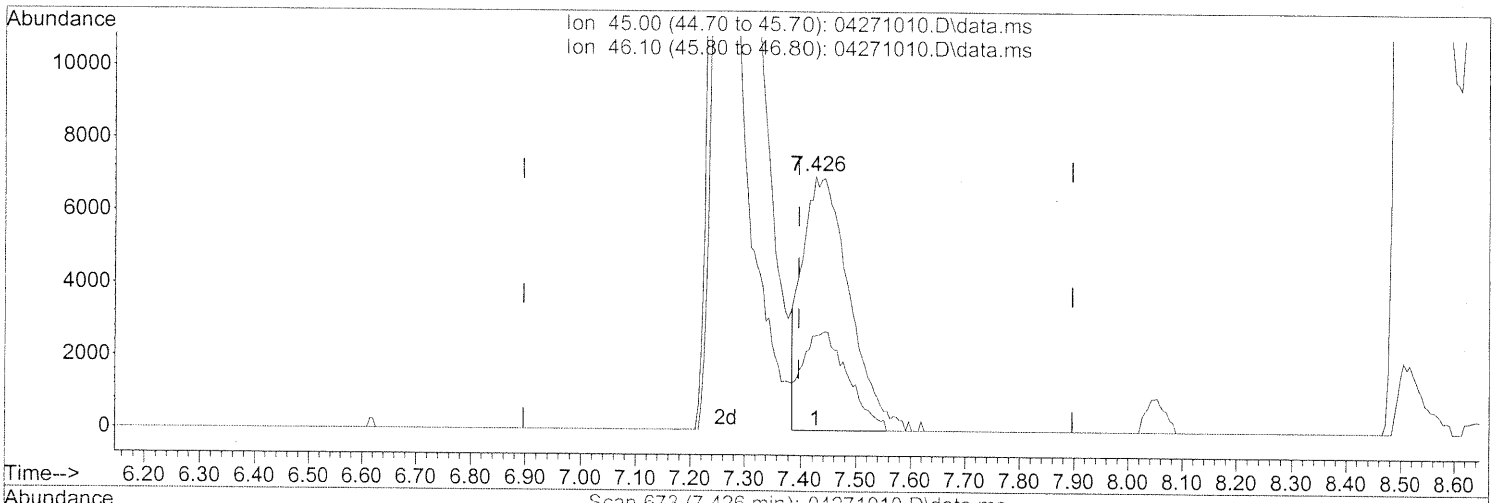
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	265369	5.781	ng		96
81) 2-Ethyltoluene	24.88	105	565608	5.611	ng		95
82) 1,2,4-Trimethylbenzene	25.15	105	470849	5.600	ng		91
83) n-Decane	25.24	57	215422	6.030	ng		89
84) Benzyl Chloride	25.31	91	381582	6.328	ng		91
85) 1,3-Dichlorobenzene	25.34	146	287740	5.558	ng		99
86) 1,4-Dichlorobenzene	25.42	146	290111	5.387	ng		100
87) sec-Butylbenzene	25.48	105	642300	5.727	ng		94
88) 4-Isopropyltoluene (p-...	25.66	119	608944	5.514	ng		93
89) 1,2,3-Trimethylbenzene	25.67	105	479871	5.619	ng		90
90) 1,2-Dichlorobenzene	25.84	146	271657	5.428	ng		99
91) d-Limonene	25.84	68	172524	6.089	ng		81
92) 1,2-Dibromo-3-Chloropr...	26.36	157	91309	5.756	ng	#	62
93) n-Undecane	26.75	57	215640	5.928	ng		88
94) 1,2,4-Trichlorobenzene	27.89	180	193868	5.208	ng		99
95) Naphthalene	28.05	128	555692	4.799	ng		99
96) n-Dodecane	28.00	57	190681	4.927	ng		88
97) Hexachlorobutadiene	28.47	225	124198	5.124	ng		99
98) Cyclohexanone	22.60	55	132236	5.176	ng	#	87
99) tert-Butylbenzene	25.15	119	489176	5.639	ng		95
100) n-Butylbenzene	26.16	91	503826	5.873	ng	#	96

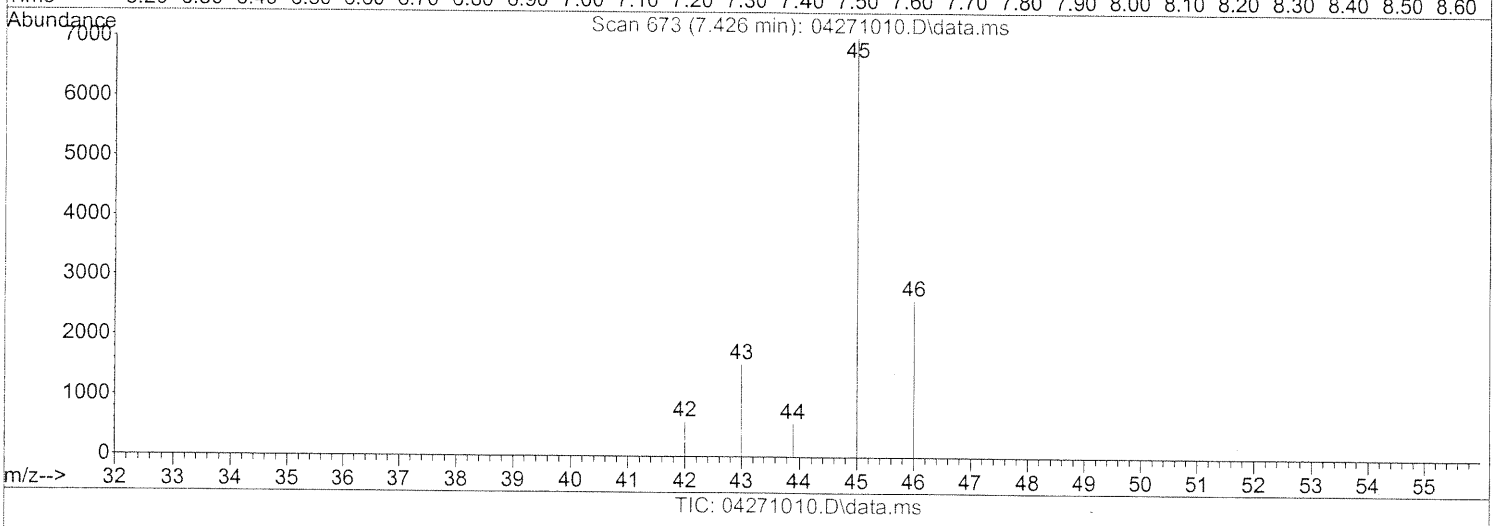
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271010.D
Acq On : 27 Apr 2010 21:09
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:02:12 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271010.D\data.ms

(10) Ethanol (T)

7.426min (+0.029) 4.19ng

response 41637

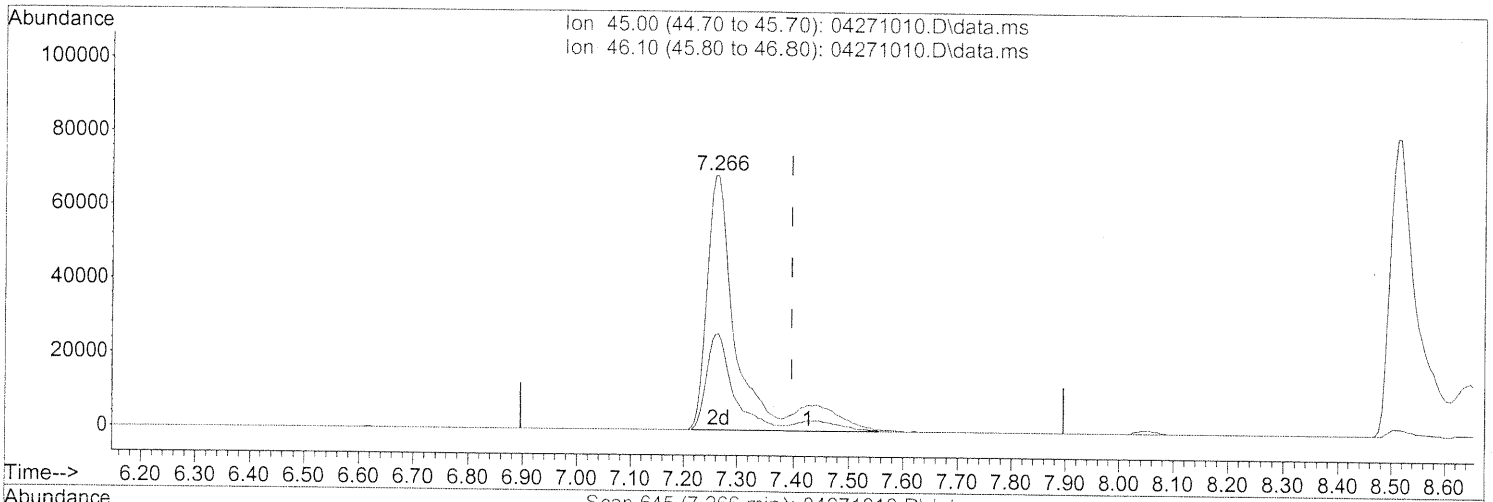
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	36.44
0.00	0.00	0.00
0.00	0.00	0.00

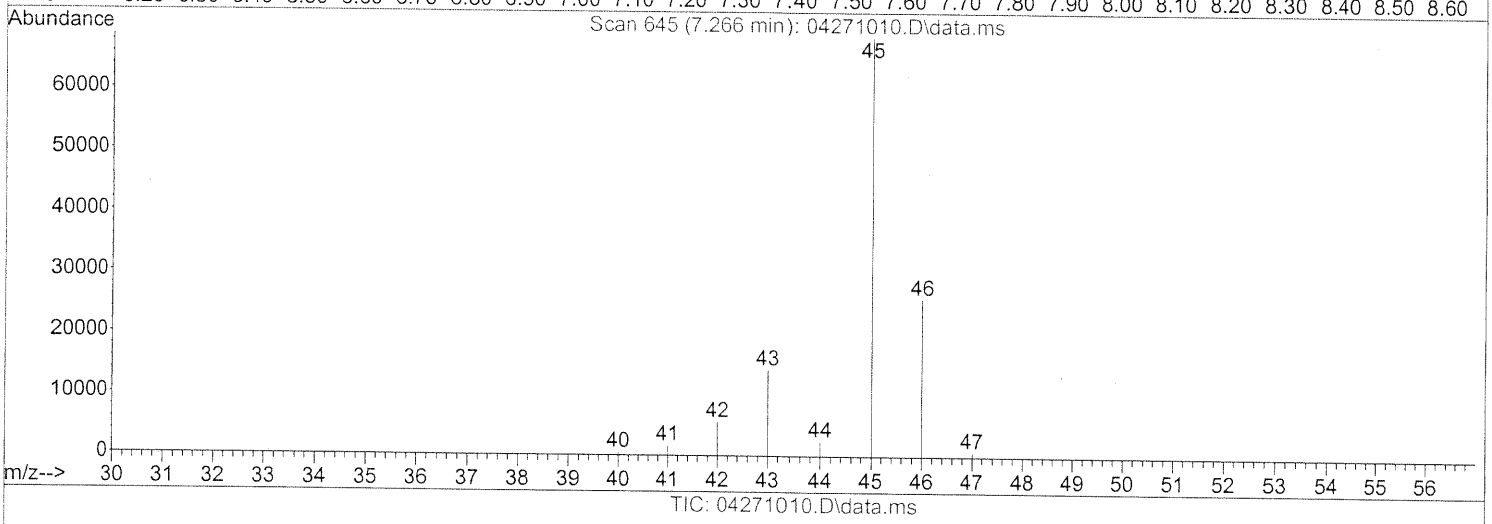
SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271010.D
Acq On : 27 Apr 2010 21:09
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:02:12 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271010.D\data.ms

(10) Ethanol (T)

7.266min (-0.131) 27.91ng m

response 277405

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	5.47#
0.00	0.00	0.00
0.00	0.00	0.00

SP—7 IC

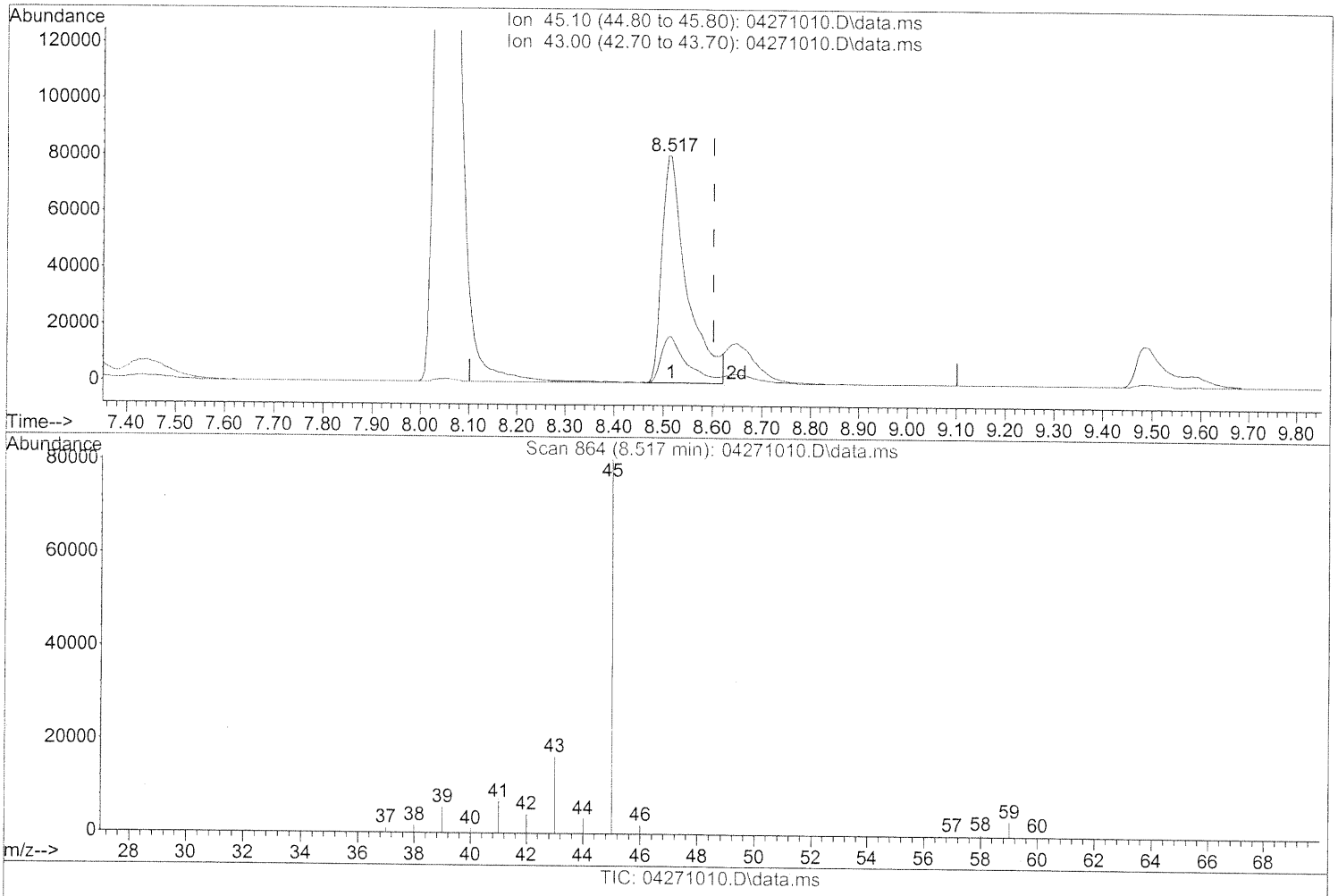
DA 4/28/10

KR 4/30/10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271010.D
Acq On : 27 Apr 2010 21:09
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:02:12 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



TIC: 04271010.D\data.ms

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

8.517min (-0.085) 7.61ng

response 284204

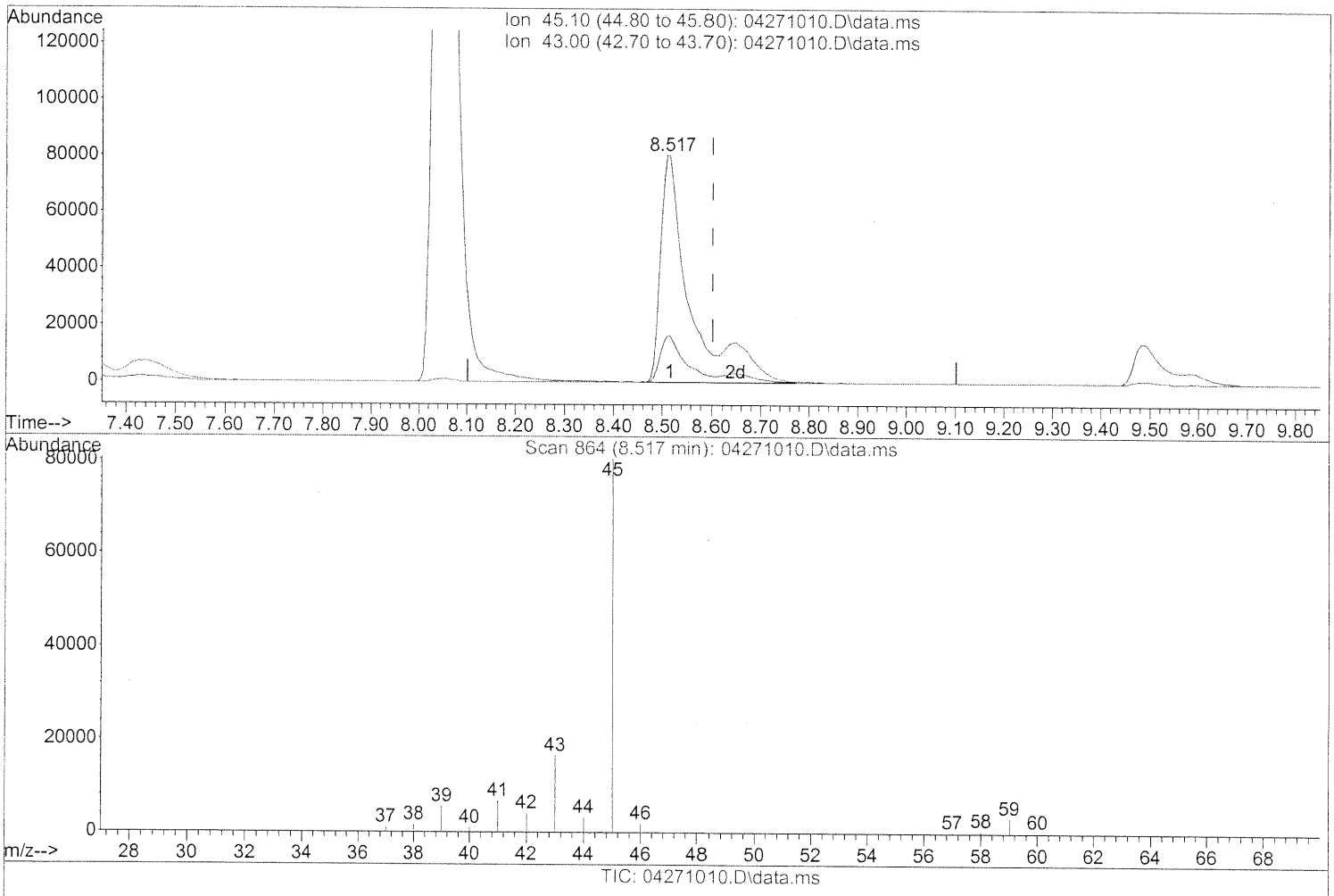
Ion	Exp%	Act%
45.10	100	100
43.00	19.20	26.05
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271010.D
Acq On : 27 Apr 2010 21:09
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-04261002/S20-04261003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:02:12 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



TIC: 04271010.D\data.ms

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

8.517min (-0.085) 9.23ng m

response 344507

Ion	Exp%	Act%
45.10	100	100
43.00	19.20	21.49
0.00	0.00	0.00
0.00	0.00	0.00

SP—7 IC

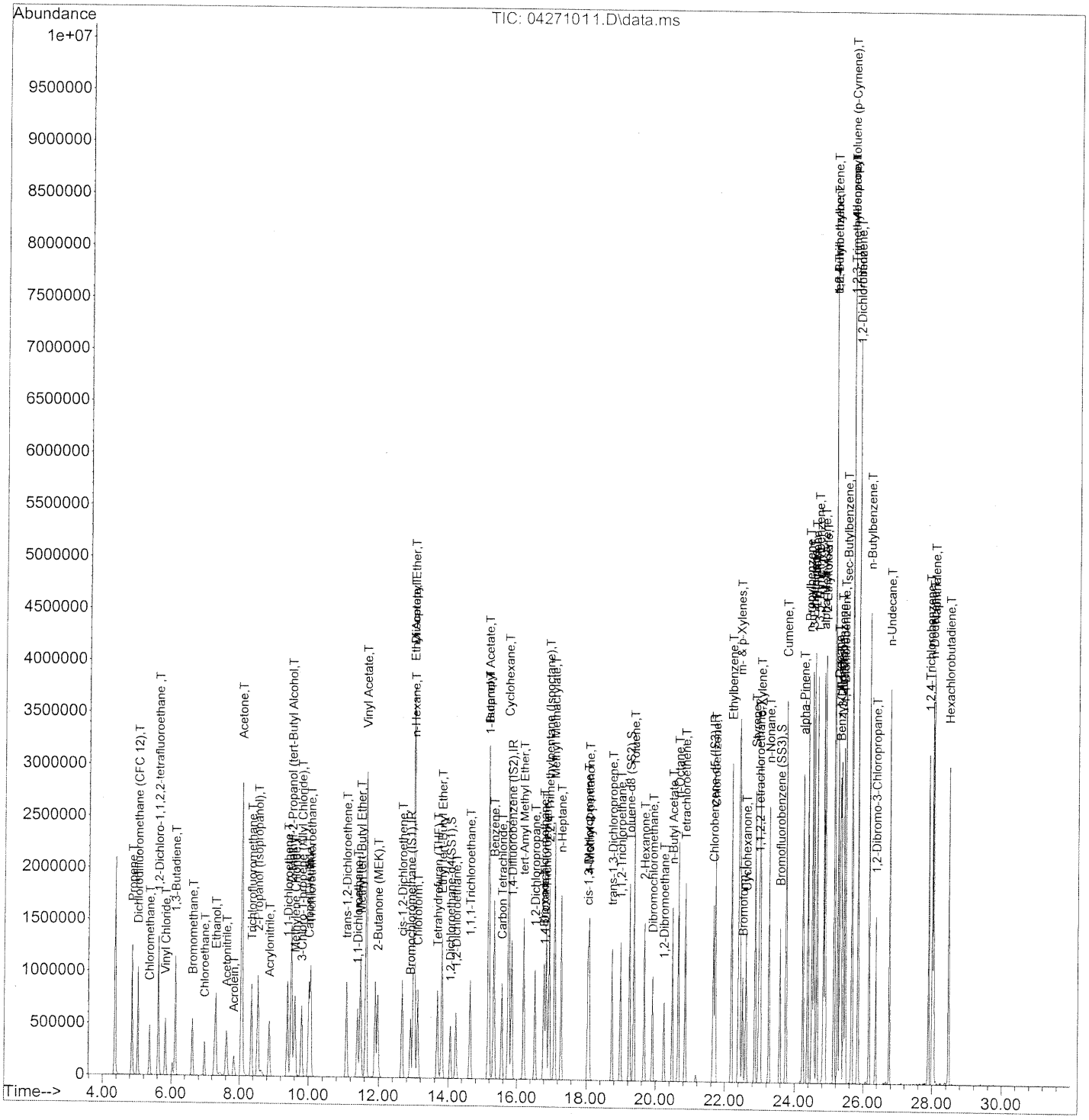
IDA 4/28/10

KR 4/30/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271011.D
Acq On : 27 Apr 2010 21:51
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:04:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271011.D
Acq On : 27 Apr 2010 21:51
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:04:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.90	130	342838	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.85	114	1635526	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.66	82	676507	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.06	65	511052	24.073	ng		-0.02
Spiked Amount 25.000			Recovery =	96.28%			
57) Toluene-d8 (SS2)	19.24	98	1697857	24.033	ng		0.00
Spiked Amount 25.000			Recovery =	96.12%			
73) Bromofluorobenzene (SS3)	23.59	174	600398	23.220	ng		0.00
Spiked Amount 25.000			Recovery =	92.88%			
Target Compounds							Qvalue
2) Propene	4.86	42	562972	38.802	ng		98
3) Dichlorodifluoromethan...	5.03	85	1151705	29.354	ng		99
4) Chloromethane	5.36	50	678930	30.417	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	679597	27.684	ng		100
6) Vinyl Chloride	5.83	62	772224	29.160	ng		99
7) 1,3-Butadiene	6.12	54	706900	40.681	ng		92
8) Bromomethane	6.63	94	521589	30.263	ng		99
9) Chloroethane	6.97	64	398847	31.706	ng		99
10) Ethanol	7.31	45	1737013m	173.631	ng		
11) Acetonitrile	7.62	41	805479	34.418	ng		99
12) Acrolein	7.84	56	292996	33.431	ng		99
13) Acetone	8.07	58	1971959	157.242	ng		87
14) Trichlorofluoromethane	8.35	101	1067297	28.790	ng		99
15) 2-Propanol (Isopropanol)	8.54	45	1975150	52.556	ng		98
16) Acrylonitrile	8.86	53	667518	35.807	ng		99
17) 1,1-Dichloroethene	9.40	96	585269	33.566	ng	#	72
18) 2-Methyl-2-Propanol (t...	9.51	59	2711551	61.918	ng		96
19) Methylene Chloride	9.61	84	576279	30.743	ng	#	73
20) 3-Chloro-1-propene (Al...	9.80	41	682152	39.973	ng		78
21) Trichlorotrifluoroethane	10.06	151	570587	30.661	ng	#	74
22) Carbon Disulfide	10.01	76	2009264	32.953	ng		98
23) trans-1,2-Dichloroethene	11.08	61	761627	33.215	ng		76
24) 1,1-Dichloroethane	11.40	63	948858	33.660	ng		100
25) Methyl tert-Butyl Ether	11.48	73	1767712	32.217	ng		93
26) Vinyl Acetate	11.64	86	742326	265.398	ng	#	20
27) 2-Butanone (MEK)	11.97	72	408257	34.410	ng	#	64
28) cis-1,2-Dichloroethene	12.66	61	751282	33.750	ng		75
29) Diisopropyl Ether	13.00	87	529198	33.123	ng	#	34
30) Ethyl Acetate	12.99	61	435082	72.707	ng		89
31) n-Hexane	13.02	57	960805	34.604	ng	#	97

4/28/10

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271011.D
Acq On : 27 Apr 2010 21:51
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:04:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.11	83	995789	31.697	ng		99
34) Tetrahydrofuran (THF)	13.67	72	387477	34.539	ng	#	74
35) Ethyl tert-Butyl Ether	13.81	87	744646	31.043	ng	#	75
36) 1,2-Dichloroethane	14.23	62	739083	30.271	ng		99
38) 1,1,1-Trichloroethane	14.63	97	917594	30.759	ng		95
39) Isopropyl Acetate	15.17	61	730412	73.049	ng	#	88
40) 1-Butanol	15.18	56	1183785	67.240	ng		92
41) Benzene	15.33	78	2349594	33.121	ng		99
42) Carbon Tetrachloride	15.56	117	807524	30.910	ng		99
43) Cyclohexane	15.75	84	1897074	67.133	ng	#	79
44) tert-Amyl Methyl Ether	16.20	73	1709634	32.630	ng		92
45) 1,2-Dichloropropane	16.53	63	543434	33.948	ng		98
46) Bromodichloromethane	16.79	83	804391	33.749	ng		98
47) Trichloroethene	16.87	130	691763	29.830	ng		99
48) 1,4-Dioxane	16.81	88	522317	34.338	ng		81
49) 2,2,4-Trimethylpentane...	16.95	57	2272343	33.461	ng		96
50) Methyl Methacrylate	17.11	100	580549	68.983	ng	#	62
51) n-Heptane	17.31	71	613481	34.247	ng		87
52) cis-1,3-Dichloropropene	18.04	75	899646	32.397	ng		99
53) 4-Methyl-2-pentanone	18.08	58	539631	37.612	ng	#	84
54) trans-1,3-Dichloropropene	18.74	75	928790	36.296	ng		100
55) 1,1,2-Trichloroethane	18.98	97	586000	33.021	ng		93
58) Toluene	19.38	91	2588915	31.374	ng		98
59) 2-Hexanone	19.67	43	1220199	33.897	ng		90
60) Dibromochloromethane	19.91	129	732514	34.012	ng		100
61) 1,2-Dibromoethane	20.24	107	690937	31.828	ng		99
62) n-Butyl Acetate	20.48	43	1424906	35.173	ng		92
63) n-Octane	20.66	57	493057	34.192	ng	#	79
64) Tetrachloroethene	20.85	166	770817	28.652	ng		100
65) Chlorobenzene	21.72	112	1712304	30.390	ng		99
66) Ethylbenzene	22.19	91	2892835	31.391	ng		95
67) m- & p-Xylenes	22.43	91	4506256	61.148	ng		92
68) Bromoform	22.52	173	655295	30.805	ng		99
69) Styrene	22.87	104	1904161	32.531	ng		94
70) o-Xylene	23.02	91	2334187	31.179	ng		93
71) n-Nonane	23.28	43	1017811	32.695	ng		84
72) 1,1,2,2-Tetrachloroethane	22.99	83	1031454	36.082	ng		98
74) Cumene	23.76	105	3052111	29.920	ng		95
75) alpha-Pinene	24.25	93	1451272	30.129	ng		94
76) n-Propylbenzene	24.38	91	3631239	30.870	ng		93
77) 3-Ethyltoluene	24.50	105	3068845	32.345	ng		95
78) 4-Ethyltoluene	24.56	105	3074612	32.294	ng		94
79) 1,3,5-Trimethylbenzene	24.64	105	2527676	31.838	ng		92

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271011.D
Acq On : 27 Apr 2010 21:51
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:04:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

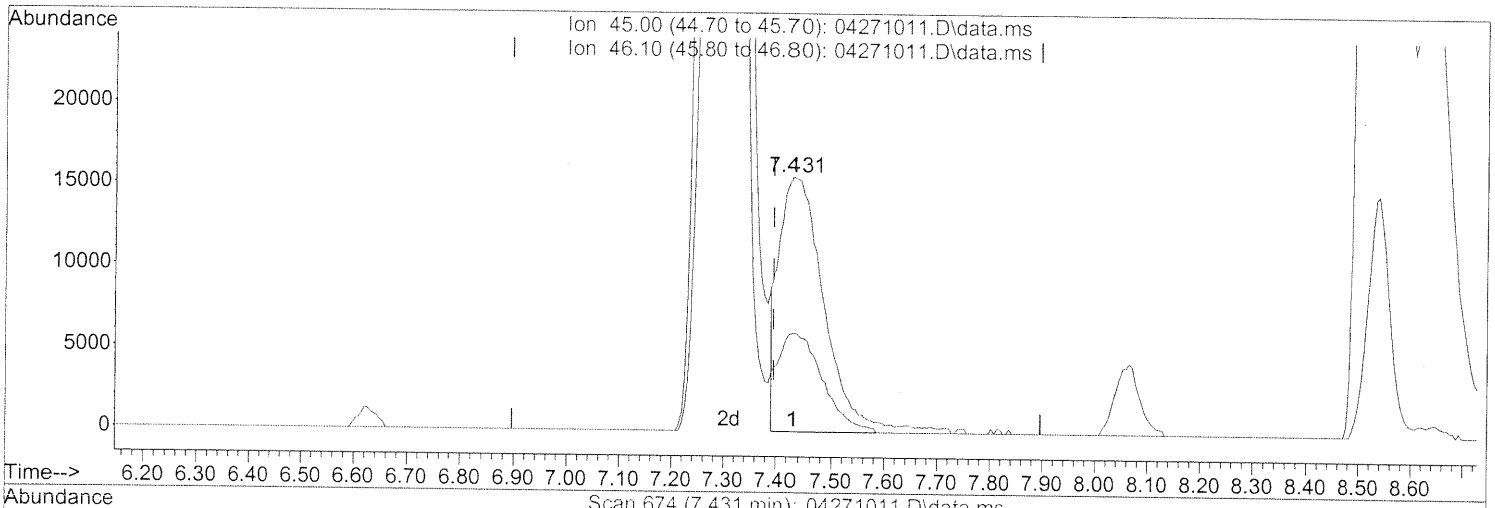
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	1483768	32.972	ng		96
81) 2-Ethyltoluene	24.88	105	3064811	31.016	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	2654059	32.201	ng		92
83) n-Decane	25.25	57	1190747	34.000	ng		88
84) Benzyl Chloride	25.31	91	2340111	39.584	ng		90
85) 1,3-Dichlorobenzene	25.35	146	1602615	31.579	ng		100
86) 1,4-Dichlorobenzene	25.42	146	1619299	30.671	ng		100
87) sec-Butylbenzene	25.48	105	3469325	31.555	ng		94
88) 4-Isopropyltoluene (p-...	25.66	119	3350141	30.944	ng		94
89) 1,2,3-Trimethylbenzene	25.66	105	2732068	32.634	ng		91
90) 1,2-Dichlorobenzene	25.84	146	1535941	31.305	ng		99
91) d-Limonene	25.84	68	995130	35.825	ng		81
92) 1,2-Dibromo-3-Chloropr...	26.36	157	571382	36.740	ng	#	60
93) n-Undecane	26.76	57	1245336	34.922	ng		88
94) 1,2,4-Trichlorobenzene	27.90	180	1211353	33.197	ng		100
95) Naphthalene	28.05	128	3743446	32.980	ng		100
96) n-Dodecane	28.00	57	1231459	32.457	ng		88
97) Hexachlorobutadiene	28.48	225	734788	30.921	ng		99
98) Cyclohexanone	22.61	55	746213	29.792	ng	#	86
99) tert-Butylbenzene	25.15	119	2670654	31.403	ng		95
100) n-Butylbenzene	26.17	91	2783567	33.101	ng	#	95

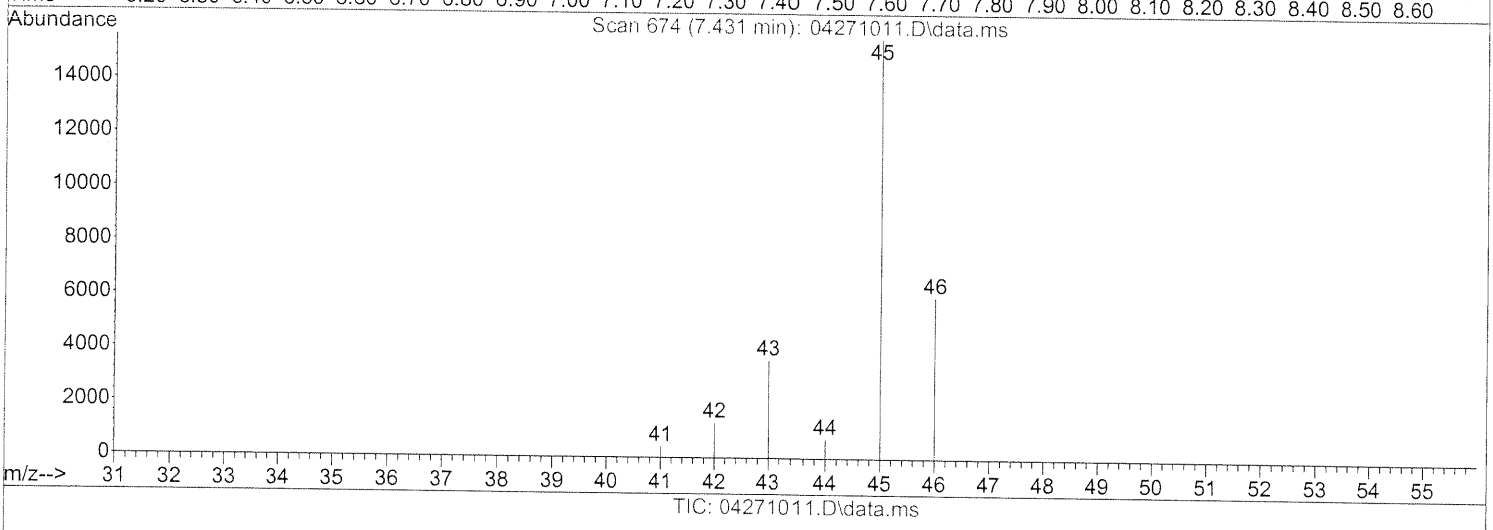
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271011.D
Acq On : 27 Apr 2010 21:51
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:03:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271011.D\data.ms

(10) Ethanol (T)

7.431min (+0.034) 8.81ng

response 88108

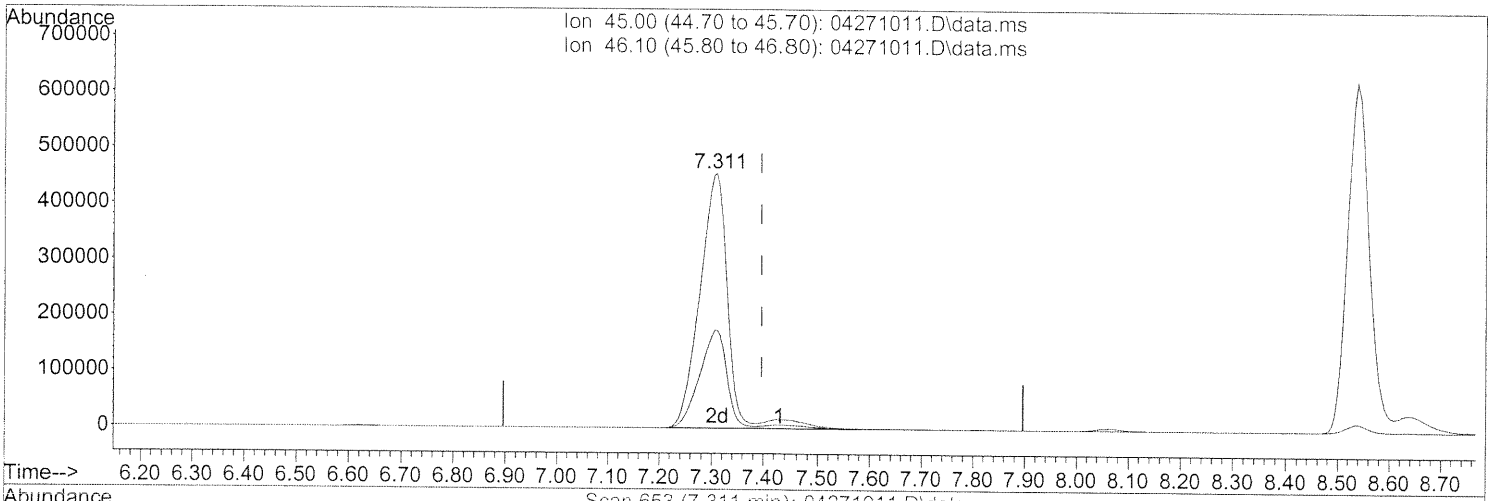
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	39.12
0.00	0.00	0.00
0.00	0.00	0.00

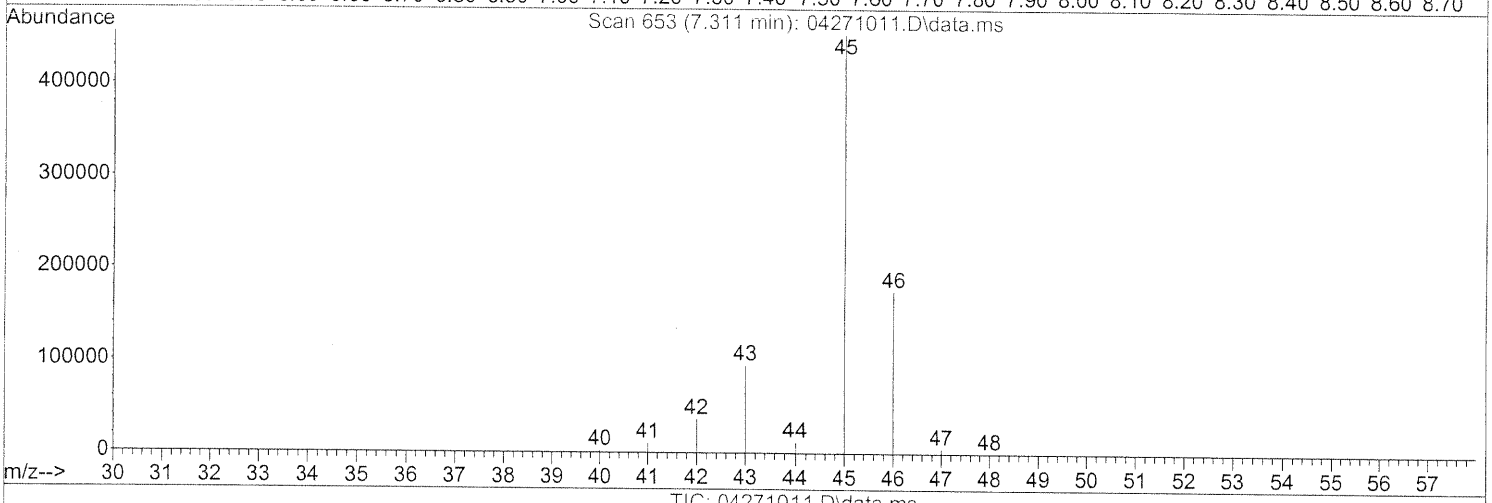
SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271011.D
Acq On : 27 Apr 2010 21:51
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:03:41 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration





TIC: 04271011.D\data.ms

(10) Ethanol (T)

7.311min (-0.086) 173.63ng m

response 1737013

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	1.98#
0.00	0.00	0.00
0.00	0.00	0.00

SP-71C

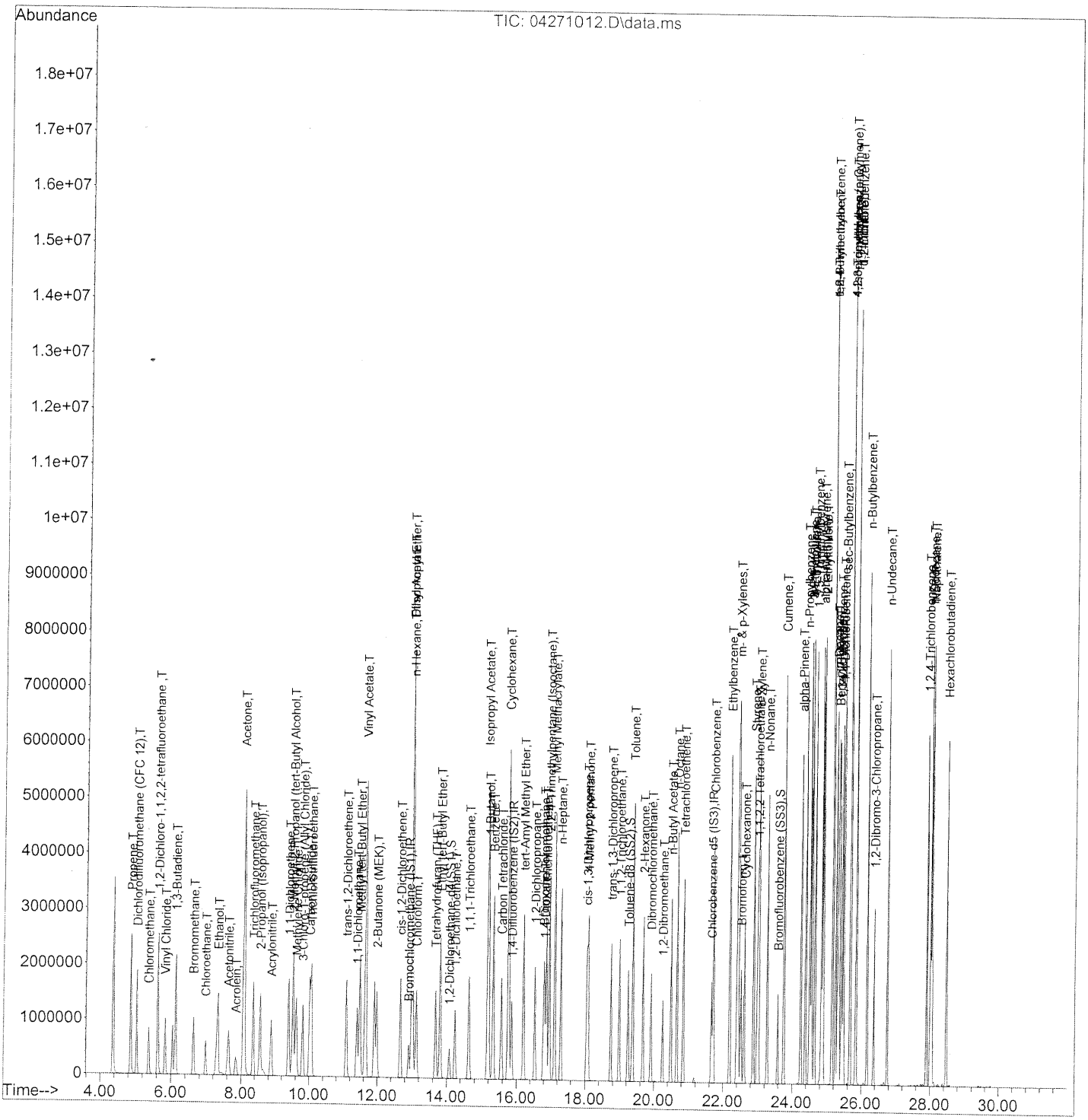
LSA 4/28/10

KA 4/30/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271012.D
Acq On : 27 Apr 2010 22:33
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:04:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271012.D
Acq On : 27 Apr 2010 22:33
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:04:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.92	130	367033	25.000	ng		-0.01
37) 1,4-Difluorobenzene (IS2)	15.86	114	1741510	25.000	ng		-0.01
56) Chlorobenzene-d5 (IS3)	21.66	82	715986	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.07	65	542266	23.859	ng		0.00
Spiked Amount 25.000			Recovery =	95.44%			
57) Toluene-d8 (SS2)	19.24	98	1795778	24.017	ng		0.00
Spiked Amount 25.000			Recovery =	96.08%			
73) Bromofluorobenzene (SS3)	23.59	174	648773	23.707	ng		0.00
Spiked Amount 25.000			Recovery =	94.84%			
Target Compounds							Qvalue
2) Propene	4.87	42	1209133	77.843	ng		99
3) Dichlorodifluoromethan...	5.04	85	2202106	52.426	ng		99
4) Chloromethane	5.37	50	1274406	53.332	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	1344721	51.167	ng		100
6) Vinyl Chloride	5.84	62	1523218	53.727	ng		99
7) 1,3-Butadiene	6.13	54	1413645	75.989	ng		92
8) Bromomethane	6.63	94	1019682	55.263	ng		99
9) Chloroethane	6.99	64	793420	58.914	ng		99
10) Ethanol	7.35	45	3446137	321.766	ng		100
11) Acetonitrile	7.64	41	1583821	63.215	ng		99
12) Acrolein	7.85	56	576772	61.471	ng		99
13) Acetone	8.08	58	3878802	288.904	ng	#	84
14) Trichlorofluoromethane	8.36	101	2100940	52.937	ng		99
15) 2-Propanol (Isopropanol)	8.56	45	3175165	78.918	ng		100
16) Acrylonitrile	8.88	53	1311637	65.721	ng		99
17) 1,1-Dichloroethene	9.40	96	1153197	61.778	ng	#	72
18) 2-Methyl-2-Propanol (t...	9.53	59	4174991	89.051	ng		96
19) Methylene Chloride	9.62	84	1123308	55.976	ng	#	73
20) 3-Chloro-1-propene (Al...	9.81	41	1352758	74.044	ng		78
21) Trichlorotrifluoroethane	10.07	151	1115578	55.995	ng	#	75
22) Carbon Disulfide	10.01	76	3910462	59.906	ng		98
23) trans-1,2-Dichloroethene	11.09	61	1501351	61.159	ng		76
24) 1,1-Dichloroethane	11.40	63	1860629	61.653	ng		99
25) Methyl tert-Butyl Ether	11.49	73	3472831	59.121	ng		93
26) Vinyl Acetate	11.66	86	1480282	494.347	ng	#	16
27) 2-Butanone (MEK)	11.99	72	801422	63.095	ng	#	62
28) cis-1,2-Dichloroethene	12.68	61	1468787	61.634	ng		75
29) Diisopropyl Ether	13.01	87	1049511	61.360	ng	#	33
30) Ethyl Acetate	13.01	61	870404	135.866	ng		88
31) n-Hexane	13.02	57	1908011	64.189	ng	#	97

4/28/10

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271012.D
Acq On : 27 Apr 2010 22:33
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:04:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.13	83	1935781	57.555	ng		99
34) Tetrahydrofuran (THF)	13.68	72	733950	61.110	ng	#	74
35) Ethyl tert-Butyl Ether	13.82	87	1467742	57.153	ng	#	74
36) 1,2-Dichloroethane	14.23	62	1445111	55.286	ng		99
38) 1,1,1-Trichloroethane	14.64	97	1802084	56.733	ng		95
39) Isopropyl Acetate	15.18	61	1444343	135.658	ng	#	86
40) 1-Butanol	15.21	56	2330694	124.329	ng		93
41) Benzene	15.34	78	4531404	59.989	ng		99
42) Carbon Tetrachloride	15.57	117	1608411	57.819	ng		99
43) Cyclohexane	15.77	84	3703895	123.095	ng	#	80
44) tert-Amyl Methyl Ether	16.21	73	3362379	60.270	ng		91
45) 1,2-Dichloropropane	16.54	63	1057658	62.051	ng		99
46) Bromodichloromethane	16.79	83	1587953	62.569	ng		98
47) Trichloroethene	16.87	130	1365143	55.285	ng		99
48) 1,4-Dioxane	16.82	88	1027690	63.450	ng		82
49) 2,2,4-Trimethylpentane...	16.96	57	4412283	61.018	ng		96
50) Methyl Methacrylate	17.13	100	1152332	128.591	ng	#	61
51) n-Heptane	17.31	71	1195236	62.663	ng		87
52) cis-1,3-Dichloropropene	18.04	75	1768467	59.808	ng		99
53) 4-Methyl-2-pentanone	18.08	58	1060137	69.394	ng	#	84
54) trans-1,3-Dichloropropene	18.74	75	1825787	67.007	ng		100
55) 1,1,2-Trichloroethane	18.99	97	1137788	60.212	ng		93
58) Toluene	19.38	91	4981631	57.042	ng		98
59) 2-Hexanone	19.68	43	2393939	62.836	ng		90
60) Dibromochloromethane	19.91	129	1444599	63.377	ng		100
61) 1,2-Dibromoethane	20.24	107	1343552	58.478	ng		99
62) n-Butyl Acetate	20.48	43	2836114	66.148	ng		92
63) n-Octane	20.66	57	965475	63.260	ng	#	79
64) Tetrachloroethene	20.86	166	1510188	53.041	ng		100
65) Chlorobenzene	21.72	112	3308382	55.479	ng		99
66) Ethylbenzene	22.19	91	5597153	57.387	ng		94
67) m- & p-Xylenes	22.43	91	8853378	113.512	ng		92
68) Bromoform	22.52	173	1324041	58.810	ng		99
69) Styrene	22.88	104	3741894	60.402	ng		95
70) o-Xylene	23.03	91	4591140	57.944	ng		93
71) n-Nonane	23.28	43	2021206	61.346	ng		84
72) 1,1,2,2-Tetrachloroethane	22.99	83	2021992	66.833	ng		98
74) Cumene	23.76	105	5913286	54.771	ng		94
75) alpha-Pinene	24.25	93	2880800	56.510	ng		95
76) n-Propylbenzene	24.38	91	7037689	56.530	ng		93
77) 3-Ethyltoluene	24.51	105	6080941	60.559	ng		95
78) 4-Ethyltoluene	24.56	105	5913658	58.690	ng		94
79) 1,3,5-Trimethylbenzene	24.65	105	4989124	59.377	ng		92

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271012.D
Acq On : 27 Apr 2010 22:33
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:04:51 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

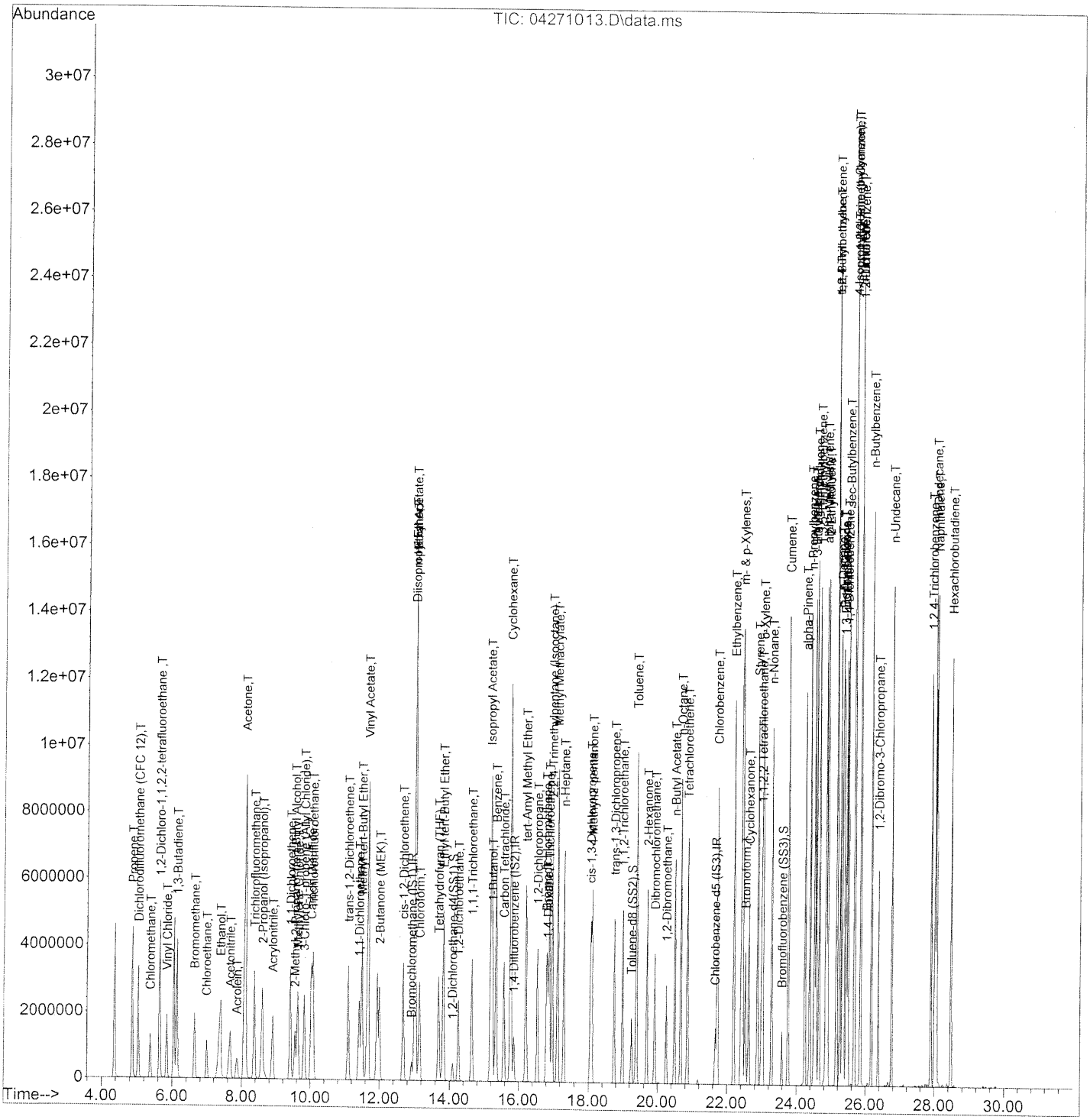
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.84	118	2938058	61.688	ng		97
81) 2-Ethyltoluene	24.89	105	5971157	57.096	ng		93
82) 1,2,4-Trimethylbenzene	25.16	105	5193210	59.534	ng		93
83) n-Decane	25.25	57	2386501	64.385	ng		88
84) Benzyl Chloride	25.32	91	4749408	75.908	ng		89
85) 1,3-Dichlorobenzene	25.35	146	3157575	58.788	ng		99
86) 1,4-Dichlorobenzene	25.43	146	3202932	57.322	ng		99
87) sec-Butylbenzene	25.48	105	6709645	57.662	ng		94
88) 4-Isopropyltoluene (p-...	25.67	119	6363361	55.535	ng		95
89) 1,2,3-Trimethylbenzene	25.67	105	5343285	60.305	ng		93
90) 1,2-Dichlorobenzene	25.84	146	3022438	58.206	ng		99
91) d-Limonene	25.84	68	2012828	68.467	ng		82
92) 1,2-Dibromo-3-Chloropr...	26.37	157	1150531	69.900	ng	#	60
93) n-Undecane	26.76	57	2509312	66.486	ng		87
94) 1,2,4-Trichlorobenzene	27.90	180	2435331	63.059	ng		100
95) Naphthalene	28.05	128	7386713	61.488	ng		99
96) n-Dodecane	28.01	57	2530214	63.010	ng		87
97) Hexachlorobutadiene	28.48	225	1490326	59.257	ng		99
98) Cyclohexanone	22.61	55	1484865	56.013	ng	#	86
99) tert-Butylbenzene	25.16	119	5133083	57.030	ng		94
100) n-Butylbenzene	26.17	91	5423222	60.934	ng	#	94

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271013.D
Acq On : 27 Apr 2010 23:15
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:05:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271013.D
Acq On : 27 Apr 2010 23:15
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:05:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.92	130	360915	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.86	114	1700346	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.66	82	696767	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.08	65	528201	23.634	ng		0.00
Spiked Amount 25.000			Recovery =	94.52%			
57) Toluene-d8 (SS2)	19.25	98	1752242	24.081	ng		0.00
Spiked Amount 25.000			Recovery =	96.32%			
73) Bromofluorobenzene (SS3)	23.59	174	639716	24.021	ng		0.00
Spiked Amount 25.000			Recovery =	96.08%			
Target Compounds							Qvalue
2) Propene	4.87	42	2249068	147.248	ng		99
3) Dichlorodifluoromethan...	5.04	85	4173863	101.052	ng		98
4) Chloromethane	5.37	50	2122960	90.349	ng		98
5) 1,2-Dichloro-1,1,2,2-t...	5.64	135	2630324	101.782	ng		100
6) Vinyl Chloride	5.84	62	2975979	106.749	ng		99
7) 1,3-Butadiene	6.13	54	2837818	155.131	ng		93
8) Bromomethane	6.64	94	2035628	112.194	ng		99
9) Chloroethane	6.99	64	1544720	116.645	ng		98
10) Ethanol	7.39	45	6846635	650.107	ng		100
11) Acetonitrile	7.67	41	3116625	126.502	ng		99
12) Acrolein	7.86	56	1158215	125.532	ng		99
13) Acetone	8.11	58	7805655	591.242	ng	#	80
14) Trichlorofluoromethane	8.36	101	4155205	106.472	ng		99
15) 2-Propanol (Isopropanol)	8.60	45	6313001	159.568	ng		100
16) Acrylonitrile	8.90	53	2614210	133.209	ng		100
17) 1,1-Dichloroethene	9.41	96	2274129	123.893	ng	#	72
18) 2-Methyl-2-Propanol (t...	9.55	59	2660238	57.704	ng		97
19) Methylene Chloride	9.63	84	2212939	112.142	ng	#	72
20) 3-Chloro-1-propene (Al...	9.82	41	2700790	150.335	ng		78
21) Trichlorotrifluoroethane	10.08	151	2191234	111.850	ng	#	74
22) Carbon Disulfide	10.02	76	7589952	118.244	ng		97
23) trans-1,2-Dichloroethene	11.10	61	2968781	122.985	ng		76
24) 1,1-Dichloroethane	11.41	63	3638722	122.615	ng		99
25) Methyl tert-Butyl Ether	11.49	73	6823569	118.133	ng		94
26) Vinyl Acetate	11.68	86	2970643	1008.876	ng	#	8
27) 2-Butanone (MEK)	12.01	72	1415952	113.365	ng	#	61
28) cis-1,2-Dichloroethene	12.68	61	2906812	124.044	ng		75
29) Diisopropyl Ether	13.01	87	2092303	124.400	ng	#	30
30) Ethyl Acetate	13.02	61	1735800	275.543	ng		85
31) n-Hexane	13.03	57	3815962	130.552	ng	#	96

4/28/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271013.D
Acq On : 27 Apr 2010 23:15
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 05:05:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.15	83	3827154	115.719	ng		98
34) Tetrahydrofuran (THF)	13.69	72	1458347	123.482	ng	#	74
35) Ethyl tert-Butyl Ether	13.82	87	2959039	117.177	ng	#	73
36) 1,2-Dichloroethane	14.25	62	2861339	111.324	ng		99
38) 1,1,1-Trichloroethane	14.65	97	3572924	115.205	ng		95
39) Isopropyl Acetate	15.19	61	2905069	279.461	ng	#	82
40) 1-Butanol	15.24	56	4677126	255.538	ng	#	4
41) Benzene	15.34	78	8978510	121.740	ng		100
42) Carbon Tetrachloride	15.57	117	3257038	119.918	ng		100
43) Cyclohexane	15.77	84	7430460	252.923	ng	#	81
44) tert-Amyl Methyl Ether	16.21	73	6746900	123.864	ng		91
45) 1,2-Dichloropropane	16.55	63	2082784	125.152	ng		99
46) Bromodichloromethane	16.81	83	3158415	127.462	ng		98
47) Trichloroethene	16.88	130	2716444	112.674	ng		100
48) 1,4-Dioxane	16.83	88	2034478	128.651	ng		83
49) 2,2,4-Trimethylpentane...	16.97	57	8696481	123.176	ng		97
50) Methyl Methacrylate	17.14	100	2348262	268.391	ng	#	60
51) n-Heptane	17.32	71	2432821	130.634	ng		88
52) cis-1,3-Dichloropropene	18.05	75	3530571	122.291	ng		99
53) 4-Methyl-2-pentanone	18.10	58	2143767	143.724	ng	#	82
54) trans-1,3-Dichloropropene	18.75	75	3676600	138.198	ng		99
55) 1,1,2-Trichloroethane	18.99	97	2260061	122.498	ng		93
58) Toluene	19.39	91	9677930	113.874	ng		96
59) 2-Hexanone	19.69	43	4821401	130.043	ng		90
60) Dibromochloromethane	19.92	129	2899562	130.718	ng		99
61) 1,2-Dibromoethane	20.26	107	2673955	119.595	ng		99
62) n-Butyl Acetate	20.50	43	5816871	139.411	ng		91
63) n-Octane	20.67	57	1977087	133.117	ng	#	79
64) Tetrachloroethene	20.86	166	3010453	108.649	ng		99
65) Chlorobenzene	21.72	112	6566365	113.150	ng		99
66) Ethylbenzene	22.20	91	10929927	115.155	ng		93
67) m- & p-Xylenes	22.44	91	17458032	230.009	ng		92
68) Bromoform	22.52	173	2716675	123.996	ng		99
69) Styrene	22.88	104	7439957	123.410	ng		96
70) o-Xylene	23.03	91	9184634	119.116	ng		92
71) n-Nonane	23.28	43	4177662	130.294	ng		84
72) 1,1,2,2-Tetrachloroethane	23.00	83	4091877	138.979	ng		98
74) Cumene	23.76	105	11380254	108.316	ng		92
75) alpha-Pinene	24.25	93	5749038	115.883	ng		96
76) n-Propylbenzene	24.39	91	13330079	110.028	ng		92
77) 3-Ethyltoluene	24.51	105	11734542	120.085	ng		93
78) 4-Ethyltoluene	24.57	105	11283148	115.067	ng		91
79) 1,3,5-Trimethylbenzene	24.65	105	9771660	119.503	ng		91

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271013.D
Acq On : 27 Apr 2010 23:15
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-04261002/S20-04191004
ALS Vial : 1 Sample Multiplier: 1

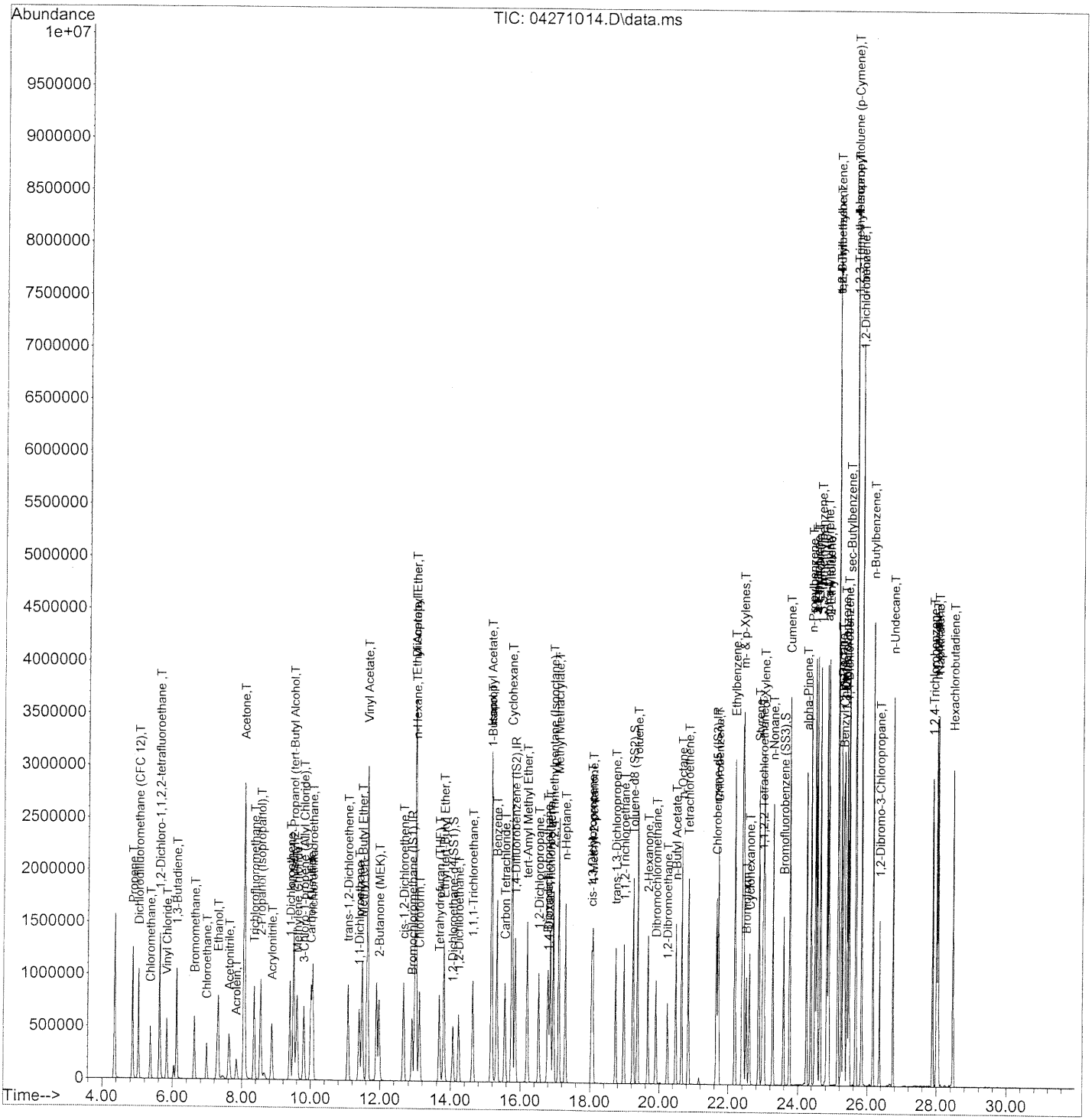
Quant Time: Apr 28 05:05:35 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Mar 25 17:36:17 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.84	118	5819383	125.555	ng		99
81) 2-Ethyltoluene	24.89	105	11543187	113.419	ng		91
82) 1,2,4-Trimethylbenzene	25.16	105	9510244	112.030	ng		93
83) n-Decane	25.26	57	4892301	135.629	ng		88
84) Benzyl Chloride	25.33	91	9598530	157.641	ng		87
85) 1,3-Dichlorobenzene	25.36	146	6274013	120.031	ng		99
86) 1,4-Dichlorobenzene	25.44	146	6291631	115.705	ng		99
87) sec-Butylbenzene	25.49	105	12618376	111.433	ng		93
88) 4-Isopropyltoluene (p-...	25.67	119	11055939	99.151	ng		97
89) 1,2,3-Trimethylbenzene	25.68	105	9730781	112.853	ng		94
90) 1,2-Dichlorobenzene	25.85	146	5557858	109.984	ng		99
91) d-Limonene	25.84	68	3885080	135.797	ng		82
92) 1,2-Dibromo-3-Chloropr...	26.37	157	2376026	148.336	ng	#	60
93) n-Undecane	26.76	57	5164544	140.614	ng		88
94) 1,2,4-Trichlorobenzene	27.90	180	4902547	130.446	ng		99
95) Naphthalene	28.06	128	13931534	119.167	ng		97
96) n-Dodecane	28.01	57	5265464	134.744	ng		87
97) Hexachlorobutadiene	28.48	225	3042512	124.310	ng		99
98) Cyclohexanone	22.63	55	3009443	116.655	ng	#	86
99) tert-Butylbenzene	25.16	119	9293320	106.099	ng		93
100) n-Butylbenzene	26.17	91	10356286	119.571	ng	#	92

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

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:41:26 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:41:26 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.90	130	362266	25.000	ng		0.02
37) 1,4-Difluorobenzene (IS2)	15.85	114	1711720	25.000	ng		0.01
56) Chlorobenzene-d5 (IS3)	21.66	82	714768	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.06	65	533772	24.413	ng		0.02
Spiked Amount 25.000			Recovery =	97.64%			
57) Toluene-d8 (SS2)	19.24	98	1775300	24.626	ng		0.00
Spiked Amount 25.000			Recovery =	98.52%			
73) Bromofluorobenzene (SS3)	23.59	174	651238	25.790	ng		0.00
Spiked Amount 25.000			Recovery =	103.16%			
Target Compounds							Qvalue
2) Propene	4.86	42	571057	27.825	ng		99
3) Dichlorodifluoromethan...	5.03	85	1170544	24.253	ng		99
4) Chloromethane	5.36	50	704494	24.080	ng		98
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	713965	25.464	ng		100
6) Vinyl Chloride	5.83	62	806143	24.599	ng		99
7) 1,3-Butadiene	6.12	54	648930	27.171	ng		93
8) Bromomethane	6.63	94	562606	25.710	ng		99
9) Chloroethane	6.98	64	414666	24.802	ng		99
10) Ethanol	7.31	45	1706057m	136.476	ng		
11) Acetonitrile	7.63	41	788463	26.030	ng		99
12) Acrolein	7.84	56	292760	23.747	ng		99
13) Acetone	8.07	58	1934975	121.132	ng		88
14) Trichlorofluoromethane	8.35	101	1066370	24.278	ng		99
15) 2-Propanol (Isopropanol)	8.54	45	1960729m	42.129	ng		
16) Acrylonitrile	8.86	53	664781	27.308	ng		99
17) 1,1-Dichloroethene	9.40	96	601229	27.278	ng	#	72
18) 2-Methyl-2-Propanol (t...	9.50	59	2643685	48.129	ng		95
19) Methylene Chloride	9.61	84	586540	24.413	ng	#	72
20) 3-Chloro-1-propene (Al...	9.80	41	692113	28.520	ng		79
21) Trichlorotrifluoroethane	10.06	151	591854	26.883	ng	#	74
22) Carbon Disulfide	10.01	76	1976178	25.461	ng		98
23) trans-1,2-Dichloroethene	11.08	61	751093	25.855	ng		75
24) 1,1-Dichloroethane	11.40	63	959184	25.361	ng		100
25) Methyl tert-Butyl Ether	11.48	73	1755418	25.952	ng		93
26) Vinyl Acetate	11.64	86	758411	136.430	ng	#	19
27) 2-Butanone (MEK)	11.98	72	400311	27.284	ng	#	62
28) cis-1,2-Dichloroethene	12.66	61	751934	26.676	ng	#	74
29) Diisopropyl Ether	13.00	87	527204	26.238	ng	#	30
30) Ethyl Acetate	12.99	61	414078	53.139	ng		87
31) n-Hexane	13.02	57	932553	25.109	ng	#	97

4/28/10

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:41:26 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.11	83	1006896	25.508	ng		99
34) Tetrahydrofuran (THF)	13.67	72	376226m	26.396	ng		
35) Ethyl tert-Butyl Ether	13.81	87	752049	25.444	ng	#	73
36) 1,2-Dichloroethane	14.23	62	752003	25.385	ng		99
38) 1,1,1-Trichloroethane	14.63	97	941819	26.201	ng		95
39) Isopropyl Acetate	15.17	61	720320	54.797	ng	#	86
40) 1-Butanol	15.18	56	1058593	51.279	ng		88
41) Benzene	15.33	78	2364699	24.267	ng		99
42) Carbon Tetrachloride	15.56	117	830617	27.742	ng		99
43) Cyclohexane	15.75	84	1852407	51.056	ng	#	79
44) tert-Amyl Methyl Ether	16.20	73	1709255	26.030	ng		91
45) 1,2-Dichloropropane	16.53	63	538106	25.366	ng		98
46) Bromodichloromethane	16.79	83	787440	26.914	ng		98
47) Trichloroethene	16.87	130	705443	25.941	ng		99
48) 1,4-Dioxane	16.81	88	494832	26.048	ng		81
49) 2,2,4-Trimethylpentane...	16.96	57	2224828	24.855	ng		96
50) Methyl Methacrylate	17.11	100	589940	57.137	ng	#	60
51) n-Heptane	17.31	71	594892	25.662	ng		87
52) cis-1,3-Dichloropropene	18.04	75	906367	26.130	ng		99
53) 4-Methyl-2-pentanone	18.08	58	504237	27.326	ng	#	84
54) trans-1,3-Dichloropropene	18.74	75	943745	30.049	ng		100
55) 1,1,2-Trichloroethane	18.98	97	590787	26.324	ng		92
58) Toluene	19.38	91	2628852	25.856	ng		98
59) 2-Hexanone	19.67	43	1129619	26.241	ng		91
60) Dibromochloromethane	19.91	129	734552	30.224	ng		100
61) 1,2-Dibromoethane	20.24	107	702842	27.250	ng		99
62) n-Butyl Acetate	20.48	43	1330160	27.075	ng		92
63) n-Octane	20.66	57	484065	26.532	ng	#	77
64) Tetrachloroethene	20.85	166	792087	24.932	ng		100
65) Chlorobenzene	21.72	112	1740853	25.768	ng		99
66) Ethylbenzene	22.19	91	2934363	26.333	ng		94
67) m- & p-Xylenes	22.43	91	4620066	52.471	ng		92
68) Bromoform	22.51	173	657477	28.802	ng		100
69) Styrene	22.87	104	1935996	27.946	ng		94
70) o-Xylene	23.02	91	2370198	26.404	ng		93
71) n-Nonane	23.28	43	1015378	25.929	ng		84
72) 1,1,2,2-Tetrachloroethane	22.99	83	1029651	27.236	ng		98
74) Cumene	23.76	105	3093088	25.215	ng		95
75) alpha-Pinene	24.25	93	1451756	25.506	ng		94
76) n-Propylbenzene	24.38	91	3652858	25.671	ng		93
77) 3-Ethyltoluene	24.50	105	3110521	27.688	ng		95
78) 4-Ethyltoluene	24.56	105	3047817	26.925	ng		95
79) 1,3,5-Trimethylbenzene	24.64	105	2584481	27.978	ng		92

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:41:26 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

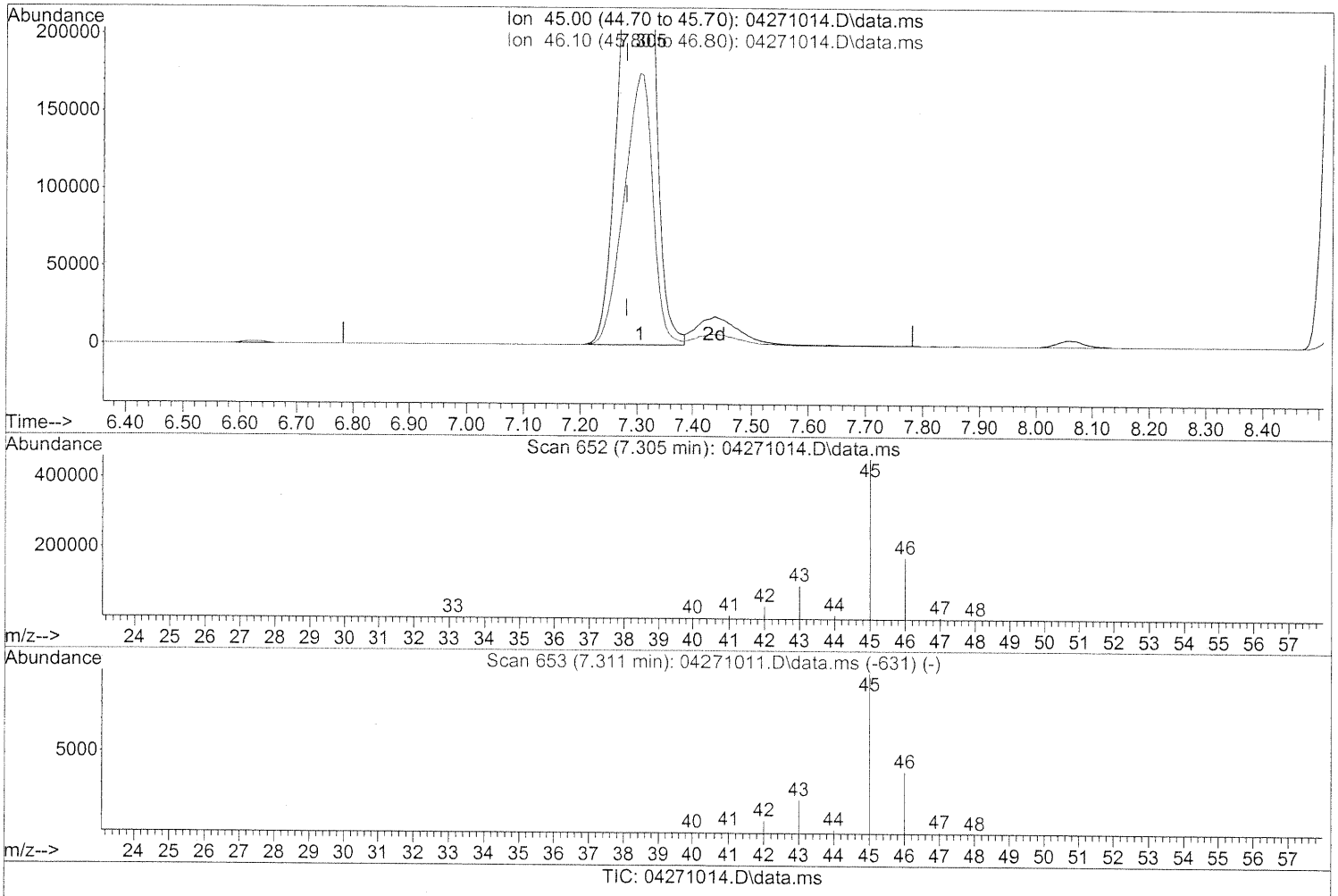
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	1481270	28.940	ng		97
81) 2-Ethyltoluene	24.88	105	3088583	26.495	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	2695636	28.222	ng		92
83) n-Decane	25.25	57	1190545	27.350	ng		88
84) Benzyl Chloride	25.31	91	2286062	31.896	ng		89
85) 1,3-Dichlorobenzene	25.35	146	1630643	27.996	ng		99
86) 1,4-Dichlorobenzene	25.42	146	1648402	27.294	ng		100
87) sec-Butylbenzene	25.48	105	3469923	26.763	ng		94
88) 4-Isopropyltoluene (p-...	25.66	119	3358069	27.223	ng		94
89) 1,2,3-Trimethylbenzene	25.66	105	2716206	28.217	ng		91
90) 1,2-Dichlorobenzene	25.84	146	1551238	27.966	ng		99
91) d-Limonene	25.84	68	985181	29.702	ng		81
92) 1,2-Dibromo-3-Chloropr...	26.36	157	558308	31.290	ng	#	60
93) n-Undecane	26.76	57	1211208	28.100	ng		88
94) 1,2,4-Trichlorobenzene	27.90	180	1140300	29.065	ng		100
95) Naphthalene	28.05	128	3302071	27.221	ng		100
96) n-Dodecane	28.00	57	1128131	25.242	ng		87
97) Hexachlorobutadiene	28.48	225	726228	28.702	ng		99
98) Cyclohexanone	22.61	55	657321	22.537	ng	#	86
99) tert-Butylbenzene	25.15	119	2682801	27.158	ng		94
100) n-Butylbenzene	26.17	91	2756812	28.022	ng	#	95

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:34:27 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 04271014.D\data.ms

(10) Ethanol (T)

7.305min (+0.023) 129.07ng

response 1613423

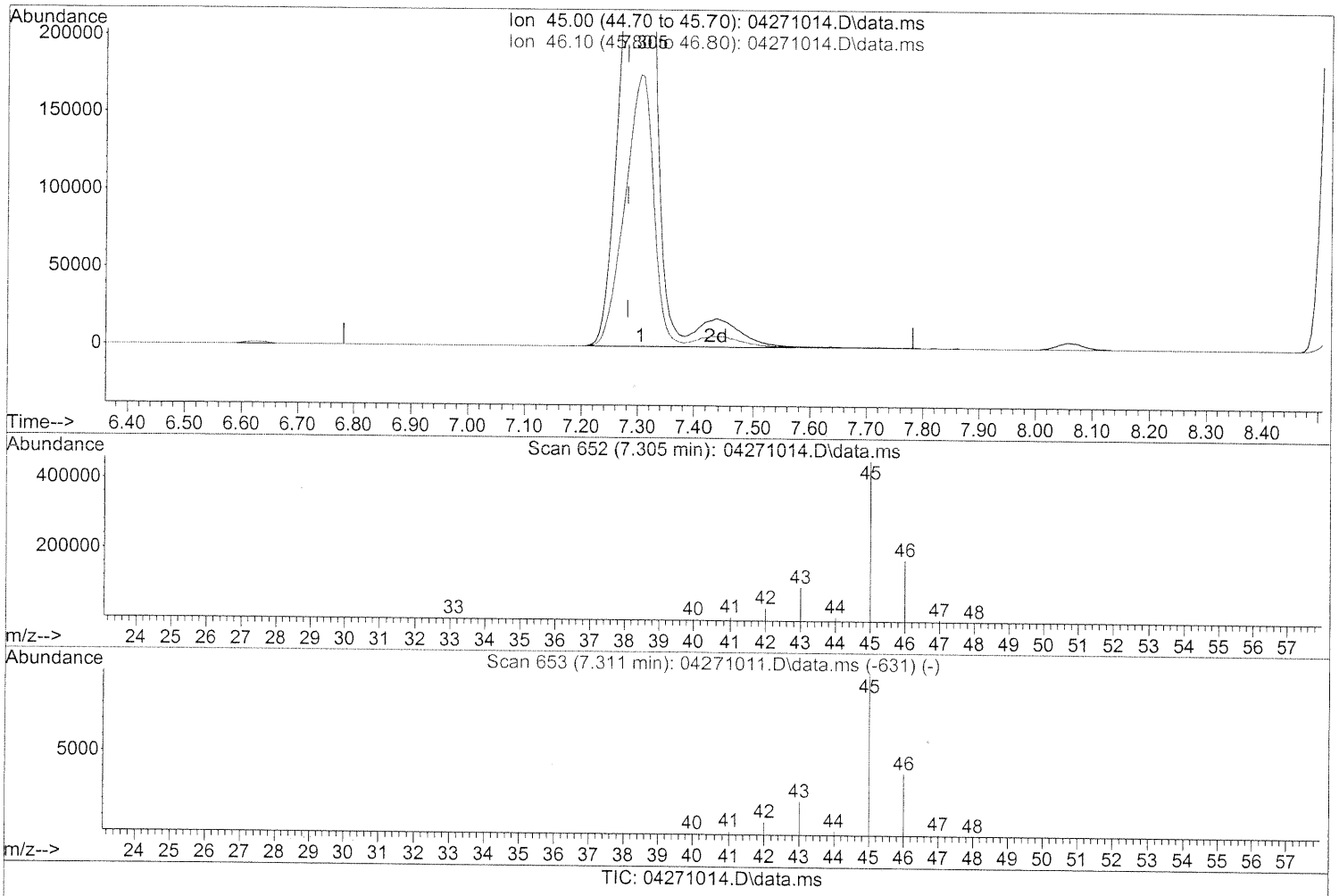
SP

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:34:27 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



(10) Ethanol (T)

7.305min (+0.023) 136.48ng m

response 1706057

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	36.37
0.00	0.00	0.00
0.00	0.00	0.00

SP→IC

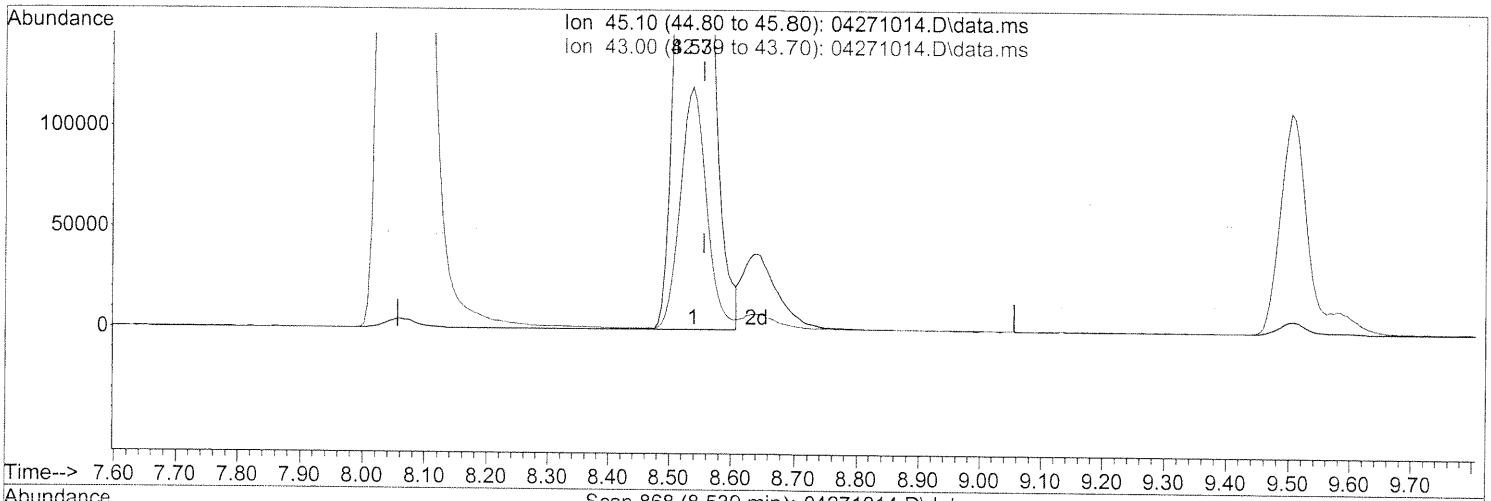
MM 4/28/10

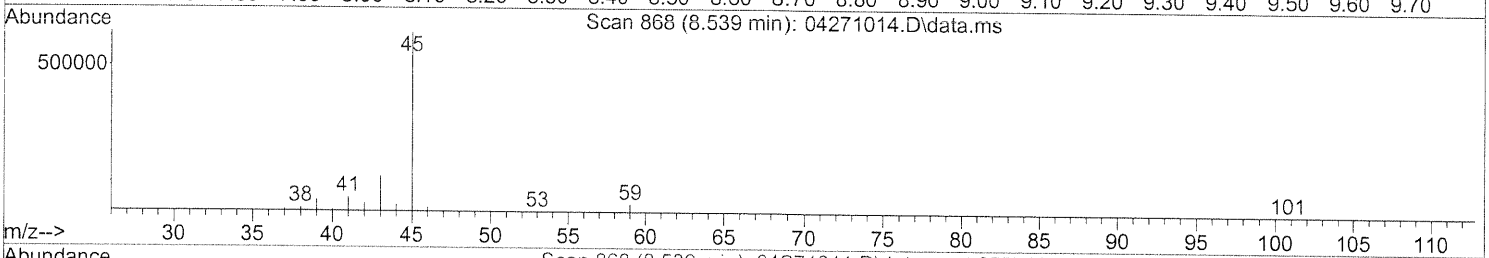
KR 4/30/10

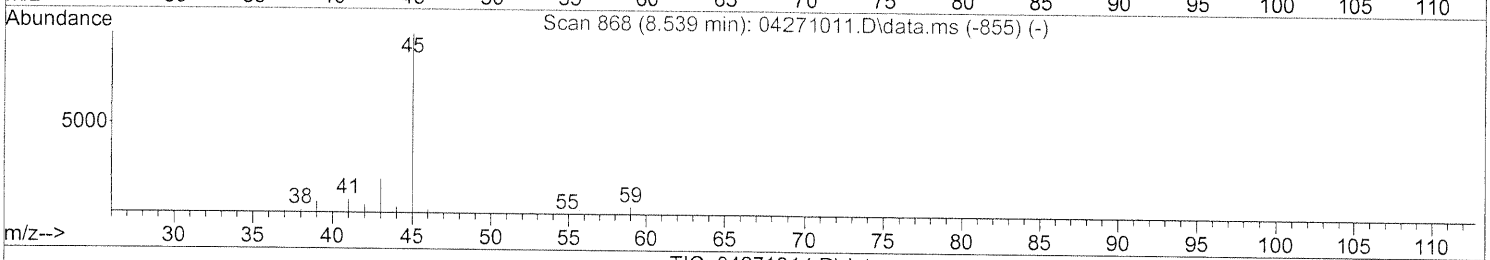
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:34:27 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 04271014.D\data.ms

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

8.539min (-0.017) 38.94ng

response 1812276

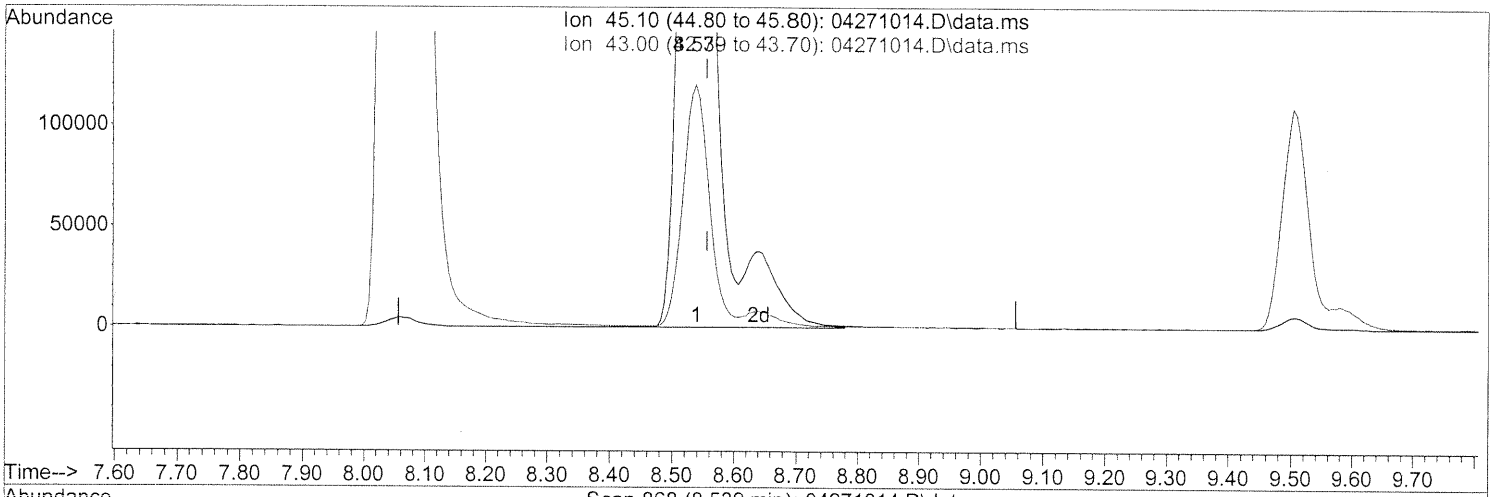
Ion	Exp%	Act%
45.10	100	100
43.00	19.20	19.49
0.00	0.00	0.00
0.00	0.00	0.00

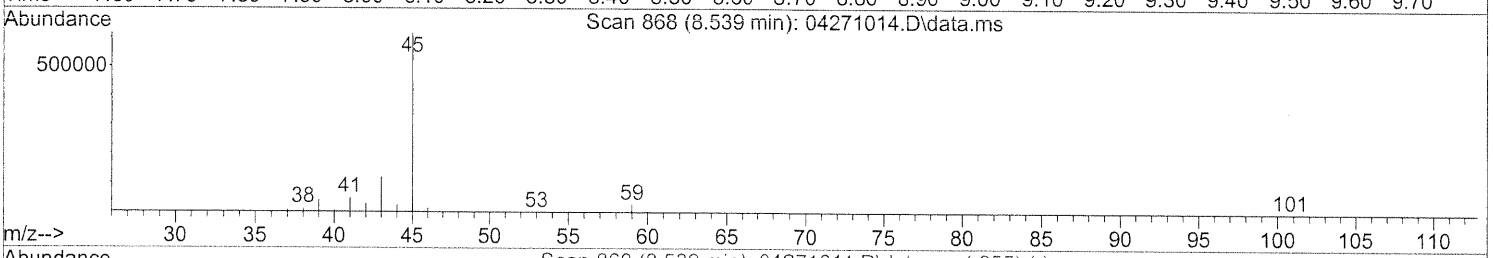
SP

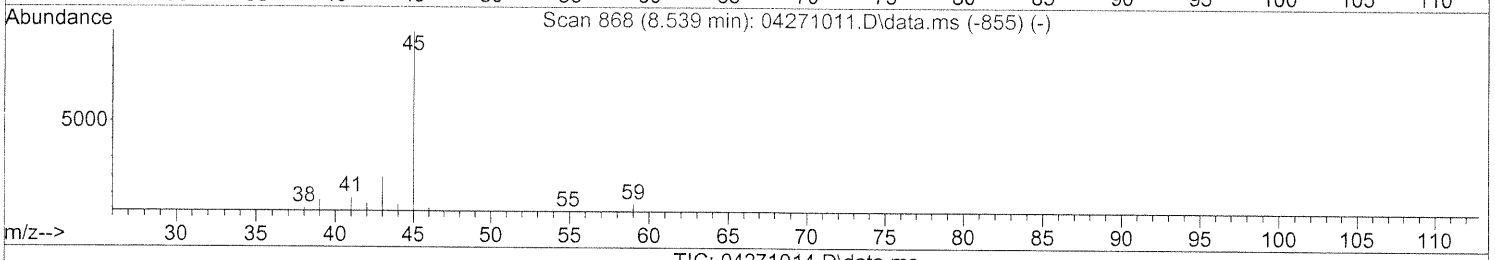
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:34:27 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 04271014.D\data.ms

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

8.539min (-0.017) 42.13ng m

response 1960729

Ion	Exp%	Act%
45.10	100	100
43.00	19.20	18.02
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

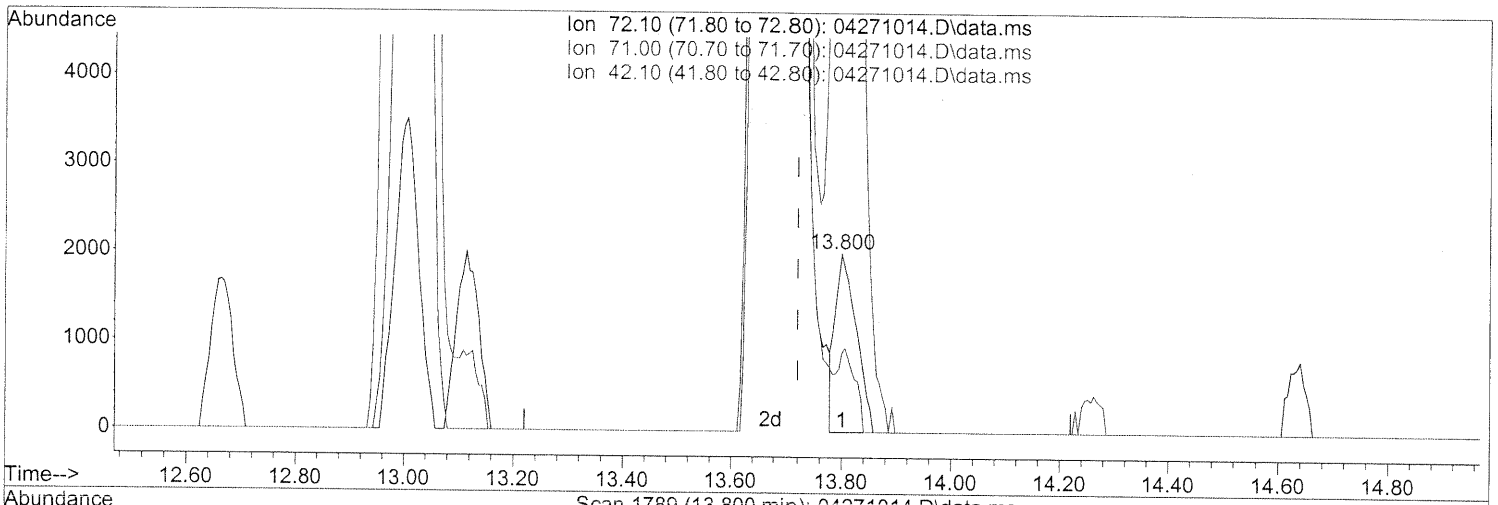
4/28/10

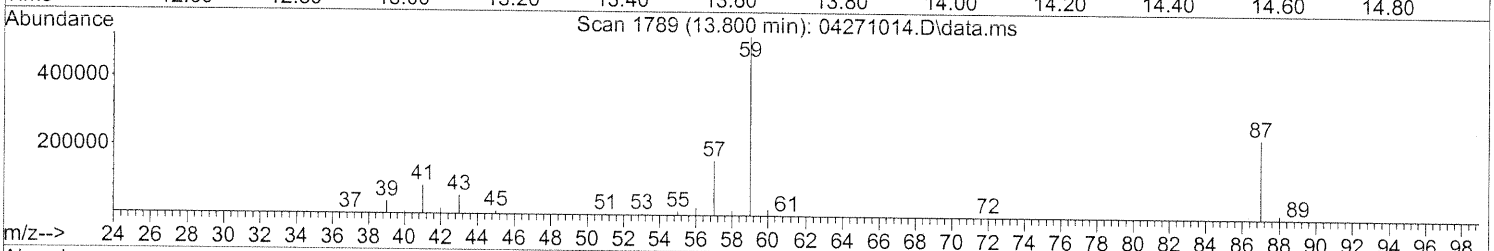
4/30/10

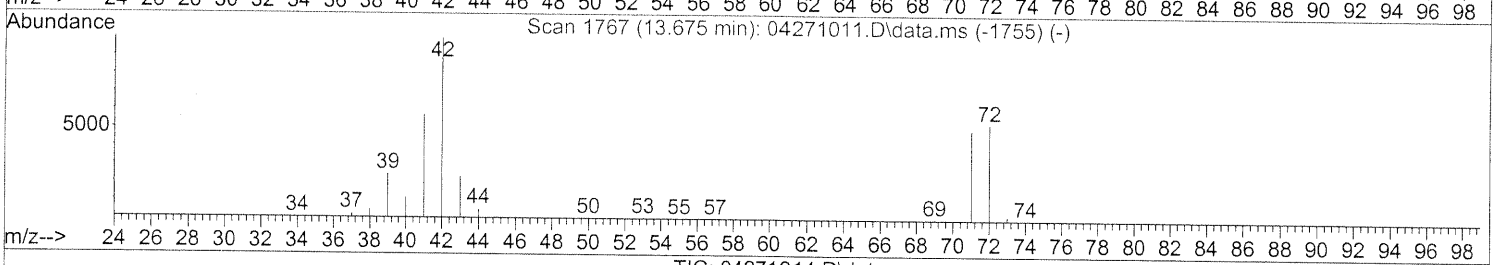
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:35:33 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 04271014.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.800min (+0.080) 0.38ng

response 5425

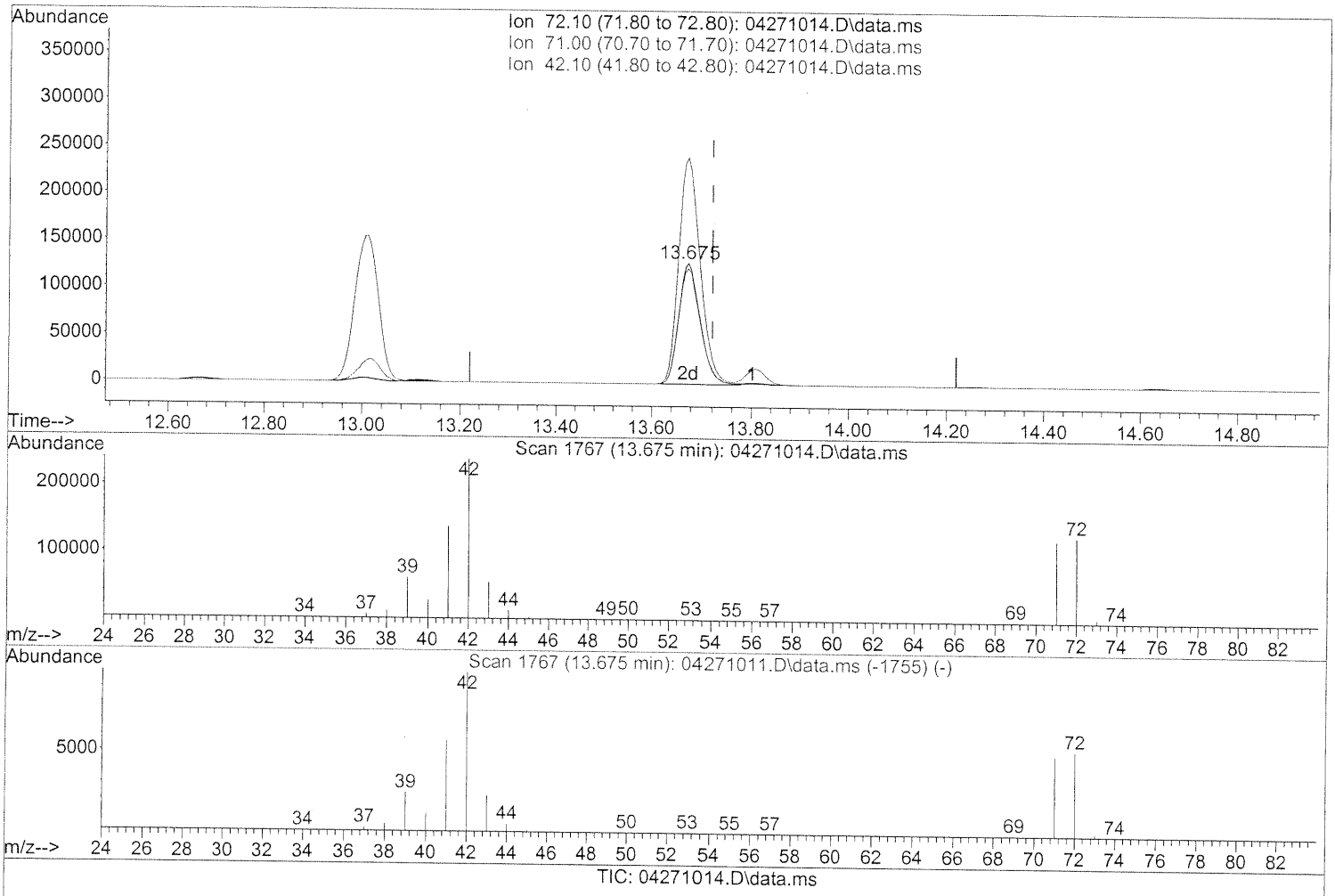
MP

Ion	Exp%	Act%
72.10	100	100
71.00	96.00	35.48#
42.10	251.90	926.91#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271014.D
Acq On : 27 Apr 2010 23:57
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-04261002/S20-04231001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 14:35:33 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 04271014.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.675min (-0.046) 26.40ng m

response 376226

Ion	Exp%	Act%
72.10	100	100
71.00	96.00	0.51#
42.10	251.90	13.37#
0.00	0.00	0.00

MP → IC

4/28/10

KR 4/30/10

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 04271014.D
Data File Path: J:\MS09\Data\2010_04\27\
Operator: WA
Date Acquired: 4/27/10 23:57

Acq. Method File: TO15LOW.M
Name: 25ng TO-15 ICV STD
Misc Info: S20-04261002/S20-04231001
Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.86	27.8	26.3	105.7	70	130	*
3)	Dichlorodifluoromethane (CFC	5.03	24.3	26.0	93.5	70	130	*
4)	Chloromethane	5.36	24.1	25.0	96.4	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro(	5.63	25.5	26.0	98.1	70	130	*
6)	Vinyl Chloride	5.83	24.6	25.3	97.2	70	130	*
7)	1,3-Butadiene	6.12	27.2	26.8	101.5	70	130	*
8)	Bromomethane	6.63	25.7	25.8	99.6	70	130	*
9)	Chloroethane	6.98	24.8	25.5	97.3	70	130	*
10)	Ethanol	7.31	136.5	130.0	105.0	70	130	*
11)	Acetonitrile	7.63	26.0	26.0	100.0	70	130	*
12)	Acrolein	7.84	23.7	26.3	90.1	70	130	*
13)	Acetone	8.07	121.1	132.0	91.7	70	130	*
14)	Trichlorofluoromethane	8.35	24.3	26.3	92.4	70	130	*
15)	2-Propanol (Isopropanol)	8.54	42.1	48.0	87.7	70	130	*
16)	Acrylonitrile	8.86	27.3	25.8	105.8	70	130	*
17)	1,1-Dichloroethene	9.40	27.3	27.5	99.3	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.50	48.1	50.0	96.2	70	130	*
19)	Methylene Chloride	9.61	24.4	26.8	91.0	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.80	28.5	27.0	105.6	70	130	*
21)	Trichlorotrifluoroethane	10.06	26.9	27.5	97.8	70	130	*
22)	Carbon Disulfide	10.01	25.5	26.0	98.1	70	130	*
23)	trans-1,2-Dichloroethene	11.08	25.9	25.5	101.6	70	130	*
24)	1,1-Dichloroethane	11.40	25.4	26.5	95.8	70	130	*
25)	Methyl tert-Butyl Ether	11.48	26.0	26.3	98.9	70	130	*
26)	Vinyl Acetate	11.64	136.4	126.0	108.3	70	130	*
27)	2-Butanone (MEK)	11.98	27.3	26.8	101.9	70	130	*
28)	cis-1,2-Dichloroethene	12.66	26.7	27.0	98.9	70	130	*
29)	Diisopropyl Ether	13.00	26.2	26.5	98.9	70	130	*
30)	Ethyl Acetate	12.99	53.1	52.0	102.1	70	130	*
31)	n-Hexane	13.02	25.1	26.0	96.5	70	130	*
32)	Chloroform	13.11	25.5	27.5	92.7	70	130	*
34)	Tetrahydrofuran (THF)	13.67	26.4	26.5	99.6	70	130	*
35)	Ethyl tert-Butyl Ether	13.81	25.4	25.5	99.6	70	130	*
36)	1,2-Dichloroethane	14.23	25.4	26.3	96.6	70	130	*
38)	1,1,1-Trichloroethane	14.63	26.2	26.0	100.8	70	130	*
39)	Isopropyl Acetate	15.17	54.8	52.3	104.8	70	130	*
40)	1-Butanol	15.18	51.3	52.8	97.2	70	130	*
41)	Benzene	15.33	24.3	25.8	94.2	70	130	*
42)	Carbon Tetrachloride	15.56	27.7	26.3	105.3	70	130	*
43)	Cyclohexane	15.75	51.1	51.8	98.6	70	130	*
44)	tert-Amyl Methyl Ether	16.20	26.0	25.5	102.0	70	130	*
45)	1,2-Dichloropropane	16.53	25.4	26.0	97.7	70	130	*
46)	Bromodichloromethane	16.79	26.9	26.3	102.3	70	130	*
47)	Trichloroethene	16.87	25.9	25.8	100.4	70	130	*
48)	1,4-Dioxane	16.81	26.0	26.0	100.0	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.96	24.9	25.8	96.5	70	130	*
50)	Methyl Methacrylate	17.11	57.1	52.8	108.1	70	130	*

J:\MS09\0-Instrument Info\0-Security Certificates\ICV_07240903.CRT

4/28/10 2:44 PM

DH 4/28/10

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 04271014.D
Data File Path: J:\MS09\Data\2010_04\27\
Operator: WA
Date Acquired: 4/27/10 23:57

Acq. Method File: TO15LOW.M
Name: 25ng TO-15 ICV STD
Misc Info: S20-04261002/S20-04231001
Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	17.31	25.7	25.8	99.6	70	130	*
52)	cis-1,3-Dichloropropene	18.04	26.1	24.5	106.5	70	130	*
53)	4-Methyl-2-pentanone	18.08	27.3	26.8	101.9	70	130	*
54)	trans-1,3-Dichloropropene	18.74	30.0	27.0	111.1	70	130	*
55)	1,1,2-Trichloroethane	18.98	26.3	26.0	101.2	70	130	*
58)	Toluene	19.38	25.9	26.8	96.6	70	130	*
59)	2-Hexanone	19.67	26.2	27.0	97.0	70	130	*
60)	Dibromochloromethane	19.91	30.2	28.3	106.7	70	130	*
61)	1,2-Dibromoethane	20.24	27.2	26.3	103.4	70	130	*
62)	n-Butyl Acetate	20.48	27.1	27.5	98.5	70	130	*
63)	n-Octane	20.66	26.5	26.3	100.8	70	130	*
64)	Tetrachloroethene	20.85	24.9	25.3	98.4	70	130	*
65)	Chlorobenzene	21.72	25.8	26.5	97.4	70	130	*
66)	Ethylbenzene	22.19	26.3	26.3	100.0	70	130	*
67)	m- & p-Xylenes	22.43	52.5	51.5	101.9	70	130	*
68)	Bromoform	22.51	28.8	26.5	108.7	70	130	*
69)	Styrene	22.87	27.9	26.3	106.1	70	130	*
70)	o-Xylene	23.02	26.4	26.0	101.5	70	130	*
71)	n-Nonane	23.28	25.9	25.8	100.4	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.99	27.2	27.0	100.7	70	130	*
74)	Cumene	23.76	25.2	25.3	99.6	70	130	*
75)	alpha-Pinene	24.25	25.5	24.8	102.8	70	130	*
76)	n-Propylbenzene	24.38	25.7	25.3	101.6	70	130	*
77)	3-Ethyltoluene	24.50	27.7	26.3	105.3	70	130	*
78)	4-Ethyltoluene	24.56	26.9	26.3	102.3	70	130	*
79)	1,3,5-Trimethylbenzene	24.64	28.0	26.5	105.7	70	130	*
80)	alpha-Methylstyrene	24.83	28.9	26.0	111.2	70	130	*
81)	2-Ethyltoluene	24.88	26.5	26.0	101.9	70	130	*
82)	1,2,4-Trimethylbenzene	25.15	28.2	25.5	110.6	70	130	*
83)	n-Decane	25.25	27.3	26.3	103.8	70	130	*
84)	Benzyl Chloride	25.31	31.9	26.8	119.0	70	130	*
85)	1,3-Dichlorobenzene	25.35	28.0	26.0	107.7	70	130	*
86)	1,4-Dichlorobenzene	25.42	27.3	26.3	103.8	70	130	*
87)	sec-Butylbenzene	25.48	26.8	25.8	103.9	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.66	27.2	25.0	108.8	70	130	*
89)	1,2,3-Trimethylbenzene	25.66	28.2	26.0	108.5	70	130	*
90)	1,2-Dichlorobenzene	25.84	28.0	25.8	108.5	70	130	*
91)	d-Limonene	25.84	29.7	26.5	112.1	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.36	31.3	27.0	115.9	70	130	*
93)	n-Undecane	26.76	28.1	26.3	106.8	70	130	*
94)	1,2,4-Trichlorobenzene	27.90	29.1	27.3	106.6	70	130	*
95)	Naphthalene	28.05	27.2	25.0	108.8	70	130	*
96)	n-Dodecane	28.00	25.2	24.3	103.7	70	130	*
97)	Hexachlorobutadiene	28.48	28.7	26.8	107.1	70	130	*
98)	Cyclohexanone	22.61	22.5	24.8	90.7	70	130	*
99)	tert-Butylbenzene	25.15	27.2	26.5	102.6	70	130	*
100)	n-Butylbenzene	26.17	28.0	26.5	105.7	70	130	*

* Denotes Passing Criterion

J:\MS09\0-Instrument Info\0-Security Certificates\ICV_07240903.CRT

4/28/10 2:44 PM

4/28/10

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	114	0.02
2	T	Propene	1.416	1.592	-12.4	119	-0.04
3	T	Dichlorodifluoromethane (CF	3.331	2.867	13.9	103	-0.03
4	T	Chloromethane	2.019	1.762	12.7	102	-0.02
5	T	1,2-Dichloro-1,1,2,2-tetraf	1.935	1.657	14.4	101	-0.02
6	T	Vinyl Chloride	2.262	1.972	12.8	101	-0.01
7	T	1,3-Butadiene	1.648	1.531	7.1	102	-0.02
8	T	Bromomethane	1.510	1.333	11.7	102	0.00
9	T	Chloroethane	1.154	1.032	10.6	103	-0.02
10	T	Ethanol	0.863	0.888	-2.9	104	0.03
11	T	Acetonitrile	2.090	2.036	2.6	104	0.00
12	T	Acrolein	0.851	0.718	15.6	104	-0.02
13	T	Acetone	1.102	0.960	12.9	105	-0.03
14	T	Trichlorofluoromethane	3.031	2.665	12.1	103	0.00
15	T	2-Propanol (Isopropanol)	3.212	2.349	26.9	88	-0.01
16	T	Acrylonitrile	1.680	1.673	0.4	104	0.01
17	T	1,1-Dichloroethene	1.521	1.399	8.0	103	0.00
18	T	2-Methyl-2-Propanol (tert-B	3.791	3.549	6.4	104	-0.06
19	T	Methylene Chloride	1.658	1.412	14.8	103	0.02
20	T	3-Chloro-1-propene (Allyl C	1.675	1.700	-1.5	105	0.02
21	T	Trichlorotrifluoroethane	1.519	1.361	10.4	103	0.00
22	T	Carbon Disulfide	5.356	4.928	8.0	103	0.00
23	T	trans-1,2-Dichloroethene	2.005	1.884	6.0	103	0.02
24	T	1,1-Dichloroethane	2.610	2.365	9.4	104	0.02
25	T	Methyl tert-Butyl Ether	4.668	4.282	8.3	104	-0.05
26	T	Vinyl Acetate	0.384	0.369	3.9	98	0.02
27	T	2-Butanone (MEK)	1.013	0.988	2.5	104	-0.03
28	T	cis-1,2-Dichloroethene	1.945	1.803	7.3	103	0.02
29	T	Diisopropyl Ether	1.387	1.299	6.3	103	-0.02
30	T	Ethyl Acetate	0.538	0.535	0.6	103	-0.02
31	T	n-Hexane	2.563	2.306	10.0	103	0.00
32	T	Chloroform	2.724	2.433	10.7	103	0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.509	1.469	2.7	113	0.02
34	T	Tetrahydrofuran (THF)	0.984	0.910	7.5	101	0.00
35	T	Ethyl tert-Butyl Ether	2.040	1.908	6.5	104	-0.02
36	T	1,2-Dichloroethane	2.044	1.821	10.9	102	0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	113	0.01
38	T	1,1,1-Trichloroethane	0.525	0.486	7.4	103	0.00

5/10/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	0.192	0.194	-1.0	103	-0.02
40	T	1-Butanol	0.302	0.316	-4.6	102	-0.02
41	T	Benzene	1.423	1.230	13.6	103	0.01
42	T	Carbon Tetrachloride	0.437	0.422	3.4	104	0.02
43	T	Cyclohexane	0.530	0.489	7.7	102	0.00
44	T	tert-Amyl Methyl Ether	0.959	0.921	4.0	104	-0.02
45	T	1,2-Dichloropropane	0.310	0.286	7.7	102	0.01
46	T	Bromodichloromethane	0.427	0.414	3.0	103	0.01
47	T	Trichloroethene	0.397	0.365	8.1	103	0.02
48	T	1,4-Dioxane	0.277	0.268	3.2	102	-0.03
49	T	2,2,4-Trimethylpentane (Iso	1.307	1.215	7.0	103	0.00
50	T	Methyl Methacrylate	0.151	0.152	-0.7	103	0.00
51	T	n-Heptane	0.339	0.322	5.0	103	0.00
52	T	cis-1,3-Dichloropropene	0.507	0.504	0.6	103	0.00
53	T	4-Methyl-2-pentanone	0.270	0.272	-0.7	103	-0.02
54	T	trans-1,3-Dichloropropene	0.459	0.468	-2.0	103	0.00
55	T	1,1,2-Trichloroethane	0.328	0.309	5.8	103	0.00
56	IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	114	0.00
57	S	Toluene-d8 (SS2)	2.521	2.516	0.2	114	0.00
58	T	Toluene	3.556	3.224	9.3	103	0.00
59	T	2-Hexanone	1.506	1.495	0.7	104	-0.01
60	T	Dibromochloromethane	0.850	0.860	-1.2	104	0.00
61	T	1,2-Dibromoethane	0.902	0.869	3.7	103	0.00
62	T	n-Butyl Acetate	1.718	1.732	-0.8	103	-0.01
63	T	n-Octane	0.638	0.617	3.3	103	0.00
64	T	Tetrachloroethene	1.111	1.007	9.4	102	0.00
65	T	Chlorobenzene	2.363	2.122	10.2	103	0.00
66	T	Ethylbenzene	3.898	3.661	6.1	103	0.00
67	T	m- & p-Xylenes	3.080	2.920	5.2	104	0.03
68	T	Bromoform	0.798	0.867	-8.6	105	0.00
69	T	Styrene	2.423	2.388	1.4	103	0.00
70	T	o-Xylene	3.140	2.950	6.1	103	0.00
71	T	n-Nonane	1.370	1.304	4.8	104	0.00
72	T	1,1,2,2-Tetrachloroethane	1.322	1.285	2.8	103	0.00
73	S	Bromofluorobenzene (SS3)	0.883	0.884	-0.1	113	0.00
74	T	Cumene	4.291	3.970	7.5	103	0.00
75	T	alpha-Pinene	1.991	1.927	3.2	103	0.00
76	T	n-Propylbenzene	4.977	4.737	4.8	104	0.00

DH 5/10/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	3.929	3.751	4.5	103	0.00
78	T	4-Ethyltoluene	3.959	3.781	4.5	103	0.00
79	T	1,3,5-Trimethylbenzene	3.231	3.090	4.4	103	0.00
80	T	alpha-Methylstyrene	1.790	1.819	-1.6	101	0.00
81	T	2-Ethyltoluene	4.077	3.878	4.9	102	0.00
82	T	1,2,4-Trimethylbenzene	3.341	3.306	1.0	102	0.00
83	T	n-Decane	1.523	1.470	3.5	102	0.00
84	T	Benzyl Chloride	2.507	2.784	-11.0	101	0.00
85	T	1,3-Dichlorobenzene	2.037	1.938	4.9	102	0.00
86	T	1,4-Dichlorobenzene	2.112	2.027	4.0	102	0.00
87	T	sec-Butylbenzene	4.535	4.327	4.6	102	0.00
88	T	4-Isopropyltoluene (p-Cymen	4.314	4.273	1.0	101	0.00
89	T	1,2,3-Trimethylbenzene	3.367	3.354	0.4	101	0.00
90	T	1,2-Dichlorobenzene	1.940	1.913	1.4	101	0.00
91	T	d-Limonene	1.160	1.197	-3.2	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.624	0.688	-10.3	102	0.00
93	T	n-Undecane	1.508	1.526	-1.2	103	0.00
94	T	1,2,4-Trichlorobenzene	1.372	1.463	-6.6	104	0.00
95	T	Naphthalene	4.243	4.812	-13.4	105	0.00
96	T	n-Dodecane	1.563	1.691	-8.2	105	0.00
97	T	Hexachlorobutadiene	0.885	0.888	-0.3	102	0.00
98	T	Cyclohexanone	1.020	1.012	0.8	102	-0.01
99	T	tert-Butylbenzene	3.455	3.331	3.6	102	0.00
100	T	n-Butylbenzene	3.441	3.380	1.8	102	0.00

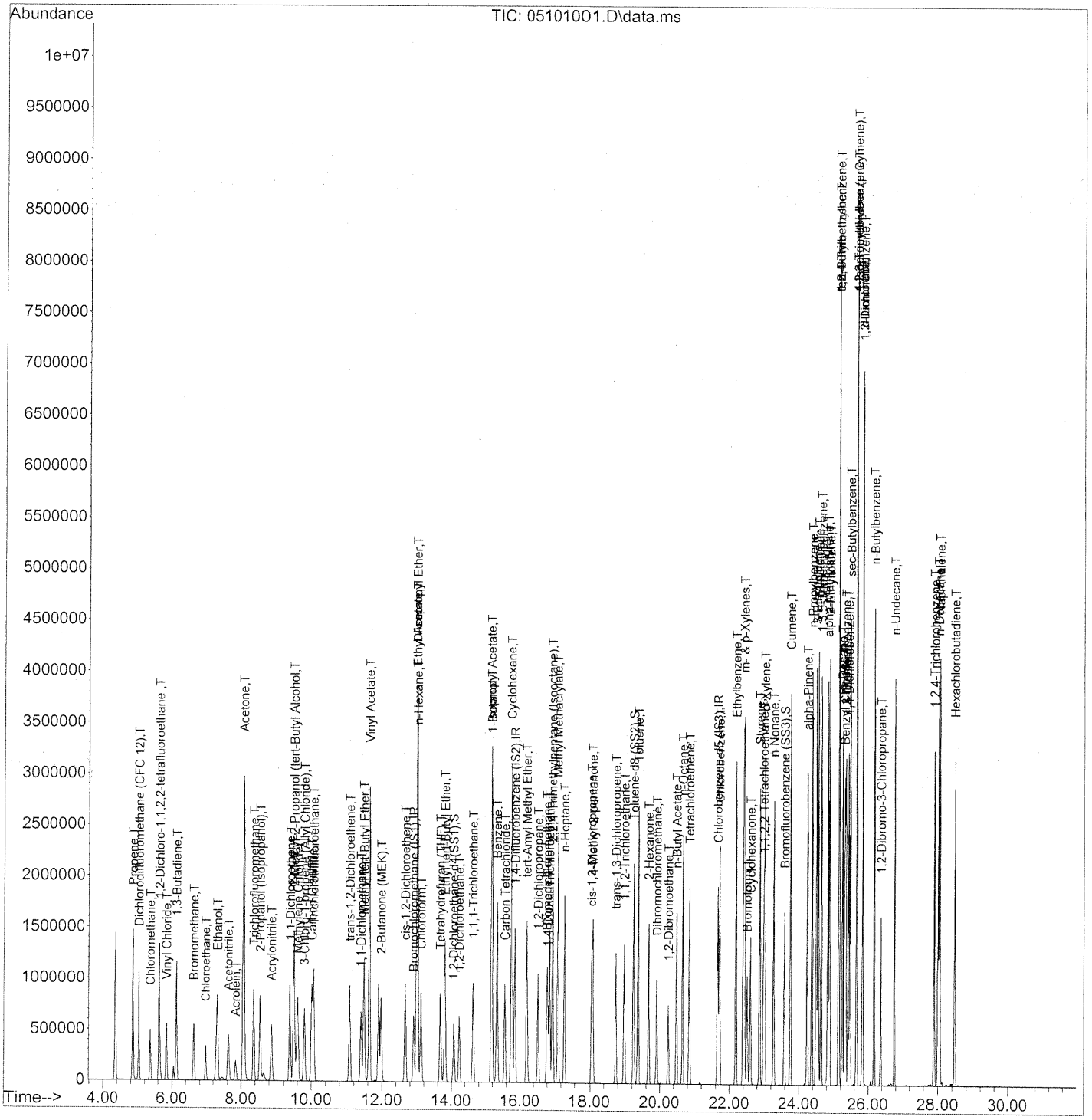
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BM 5/10/10

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.90	130	391752	25.000	ng		0.02
37) 1,4-Difluorobenzene (IS2)	15.85	114	1849075	25.000	ng		0.01
56) Chlorobenzene-d5 (IS3)	21.66	82	768821	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.06	65	575502	24.340	ng		0.02
Spiked Amount 25.000			Recovery =	97.36%			
57) Toluene-d8 (SS2)	19.24	98	1934708	24.950	ng		0.00
Spiked Amount 25.000			Recovery =	99.80%			
73) Bromofluorobenzene (SS3)	23.59	174	679838	25.029	ng		0.00
Spiked Amount 25.000			Recovery =	100.12%			
Target Compounds							Qvalue
2) Propene	4.86	42	668408	30.117	ng		99
3) Dichlorodifluoromethan...	5.03	85	1181429	22.636	ng		99
4) Chloromethane	5.37	50	690159	21.815	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	688078	22.694	ng		100
6) Vinyl Chloride	5.84	62	781906	22.064	ng		100
7) 1,3-Butadiene	6.13	54	719850	27.872	ng		93
8) Bromomethane	6.63	94	532566	22.506	ng		99
9) Chloroethane	6.98	64	408948	22.619	ng		99
10) Ethanol	7.32	45	1808420m	133.776	ng		
11) Acetonitrile	7.63	41	838982	25.613	ng		99
12) Acrolein	7.84	56	303647	22.776	ng		98
13) Acetone	8.07	58	2075872	120.171	ng		86
14) Trichlorofluoromethane	8.36	101	1098371	23.124	ng		99
15) 2-Propanol (Isopropanol)	8.55	45	1741134m	34.595	ng		
16) Acrylonitrile	8.87	53	694848	26.395	ng		99
17) 1,1-Dichloroethene	9.40	96	602957	25.297	ng	#	71
18) 2-Methyl-2-Propanol (t...	9.51	59	2808653	47.284	ng		95
19) Methylene Chloride	9.61	84	593181	22.831	ng	#	73
20) 3-Chloro-1-propene (Al...	9.80	41	719181	27.405	ng		79
21) Trichlorotrifluoroethane	10.06	151	586452	24.633	ng	#	75
22) Carbon Disulfide	10.01	76	2069664	24.659	ng		98
23) trans-1,2-Dichloroethene	11.09	61	782200	24.899	ng		76
24) 1,1-Dichloroethane	11.40	63	982254	24.016	ng		100
25) Methyl tert-Butyl Ether	11.48	73	1831820	25.043	ng		93
26) Vinyl Acetate	11.64	86	728353	121.161	ng	#	20
27) 2-Butanone (MEK)	11.98	72	425630	26.827	ng	#	64
28) cis-1,2-Dichloroethene	12.66	61	771294	25.303	ng		75
29) Diisopropyl Ether	13.00	87	545529	25.107	ng	#	34
30) Ethyl Acetate	13.00	61	446504	52.987	ng		89
31) n-Hexane	13.02	57	986640	24.566	ng	#	97

5/10/10

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:09:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.12	83	1021716	23.936	ng		99
34) Tetrahydrofuran (THF)	13.67	72	392056	25.437	ng	#	75
35) Ethyl tert-Butyl Ether	13.81	87	771554	24.139	ng	#	75
36) 1,2-Dichloroethane	14.23	62	756147	23.603	ng		99
38) 1,1,1-Trichloroethane	14.63	97	946112	24.366	ng		95
39) Isopropyl Acetate	15.17	61	750553	52.855	ng	#	88
40) 1-Butanol	15.18	56	1212019	54.350	ng		93
41) Benzene	15.33	78	2411194	22.906	ng		99
42) Carbon Tetrachloride	15.56	117	842800	26.058	ng		99
43) Cyclohexane	15.75	84	1944060	49.602	ng	#	79
44) tert-Amyl Methyl Ether	16.20	73	1770597	24.961	ng		91
45) 1,2-Dichloropropane	16.53	63	555383	24.236	ng		99
46) Bromodichloromethane	16.79	83	826526	26.151	ng		98
47) Trichloroethene	16.87	130	715354	24.351	ng		99
48) 1,4-Dioxane	16.81	88	531006	25.876	ng		82
49) 2,2,4-Trimethylpentane...	16.95	57	2336211	24.161	ng		95
50) Methyl Methacrylate	17.11	100	600607	53.849	ng	#	62
51) n-Heptane	17.30	71	632022	25.238	ng		88
52) cis-1,3-Dichloropropene	18.04	75	924835	24.681	ng		99
53) 4-Methyl-2-pentanone	18.08	58	553390	27.762	ng	#	84
54) trans-1,3-Dichloropropene	18.74	75	952755	28.082	ng		100
55) 1,1,2-Trichloroethane	18.98	97	601514	24.811	ng		93
58) Toluene	19.38	91	2677033	24.479	ng		98
59) 2-Hexanone	19.67	43	1264046	27.300	ng		90
60) Dibromochloromethane	19.91	129	761481	29.129	ng		100
61) 1,2-Dibromoethane	20.24	107	708342	25.532	ng		99
62) n-Butyl Acetate	20.48	43	1464545	27.715	ng		92
63) n-Octane	20.66	57	508850	25.930	ng	#	79
64) Tetrachloroethene	20.85	166	789966	23.117	ng		100
65) Chlorobenzene	21.72	112	1762099	24.249	ng		99
66) Ethylbenzene	22.19	91	2983785	24.894	ng		95
67) m- & p-Xylenes	22.43	91	4668995	49.298	ng		92
68) Bromoform	22.51	173	687786	28.012	ng		100
69) Styrene	22.87	104	1968202	26.413	ng		94
70) o-Xylene	23.02	91	2403889	24.896	ng		93
71) n-Nonane	23.28	43	1062934	25.235	ng		84
72) 1,1,2,2-Tetrachloroethane	22.99	83	1059355	26.052	ng		98
74) Cumene	23.76	105	3149582	23.870	ng		95
75) alpha-Pinene	24.25	93	1499540	24.493	ng		94
76) n-Propylbenzene	24.38	91	3758533	24.556	ng		93
77) 3-Ethyltoluene	24.51	105	3149511	26.064	ng		95
78) 4-Ethyltoluene	24.56	105	3174722	26.074	ng		95
79) 1,3,5-Trimethylbenzene	24.64	105	2593914	26.106	ng		92

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

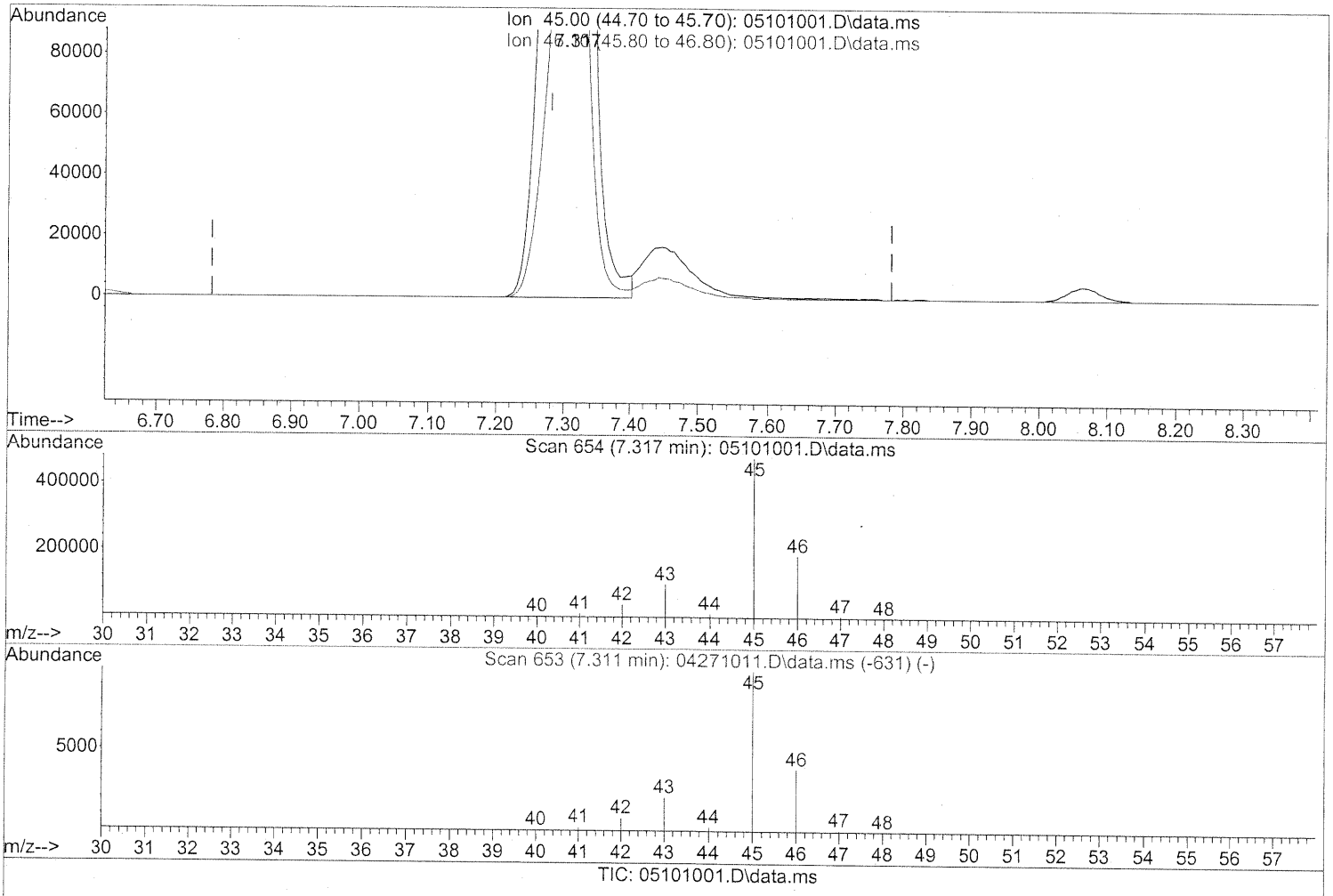
Quant Time: May 10 14:09:04 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	1498903	27.225	ng		97
81) 2-Ethyltoluene	24.88	105	3136694	25.016	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	2694562	26.227	ng		92
83) n-Decane	25.25	57	1220304	26.062	ng		88
84) Benzyl Chloride	25.31	91	2354501	30.541	ng		89
85) 1,3-Dichlorobenzene	25.35	146	1626772	25.966	ng		99
86) 1,4-Dichlorobenzene	25.43	146	1651903	25.429	ng		100
87) sec-Butylbenzene	25.48	105	3526518	25.287	ng		94
88) 4-Isopropyltoluene (p-...	25.67	119	3389974	25.550	ng		94
89) 1,2,3-Trimethylbenzene	25.67	105	2764378	26.699	ng		91
90) 1,2-Dichlorobenzene	25.84	146	1558878	26.128	ng		99
91) d-Limonene	25.84	68	1005281	28.177	ng		82
92) 1,2-Dibromo-3-Chloropr...	26.36	157	582227	30.336	ng	#	60
93) n-Undecane	26.76	57	1280855	27.626	ng		88
94) 1,2,4-Trichlorobenzene	27.90	180	1259845	29.854	ng		100
95) Naphthalene	28.05	128	3921412	30.054	ng		100
96) n-Dodecane	28.01	57	1289951	26.833	ng		88
97) Hexachlorobutadiene	28.48	225	750903	27.590	ng		99
98) Cyclohexanone	22.61	55	762768	24.314	ng	#	87
99) tert-Butylbenzene	25.15	119	2714671	25.549	ng		95
100) n-Butylbenzene	26.17	91	2837778	26.817	ng	#	95

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

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:08:36 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101001.D\data.ms

(10) Ethanol (T)

7.317min (+0.034) 127.39ng

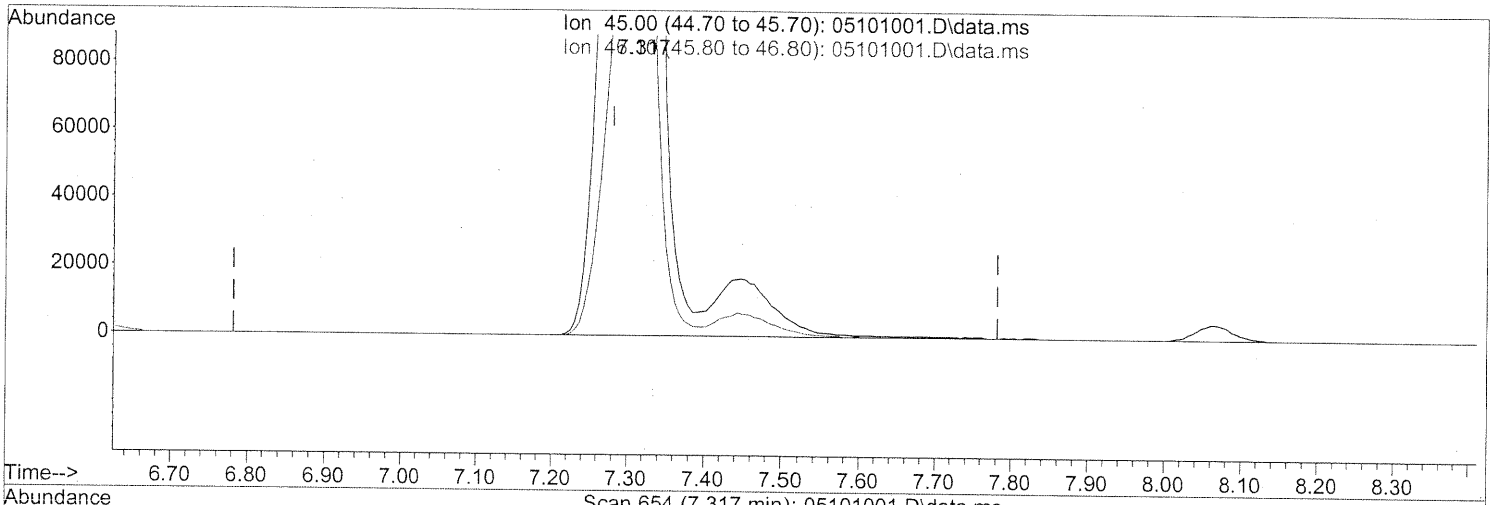
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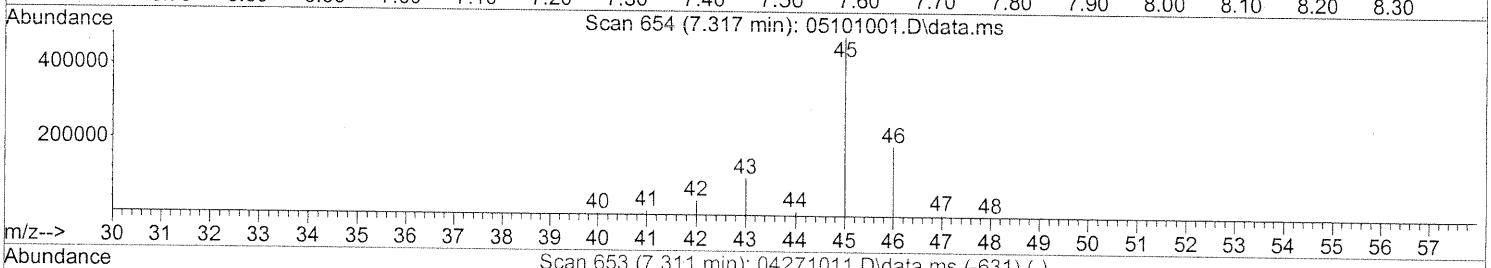
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46.10	38.40	38.49
0.00	0.00	0.00
0.00	0.00	0.00

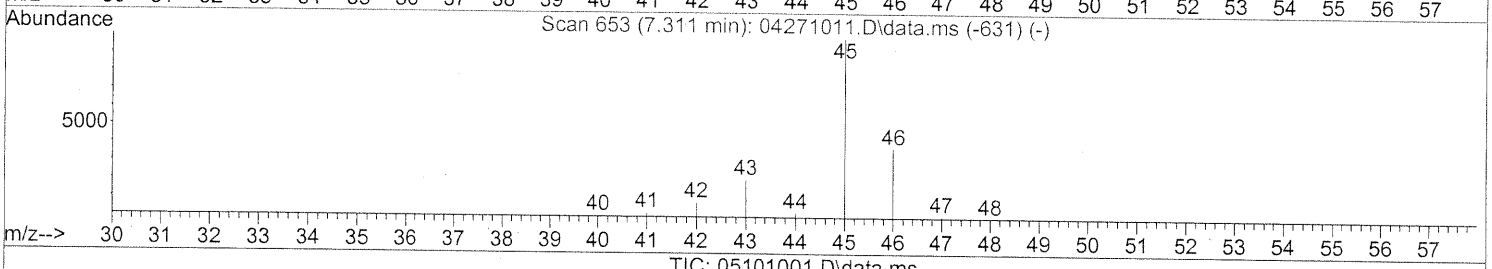
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Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:08:36 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05101001.D\data.ms

(10) Ethanol (T)

7.317min (+0.034) 133.78ng m

response 1808420

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	36.66
0.00	0.00	0.00
0.00	0.00	0.00

SP-71C

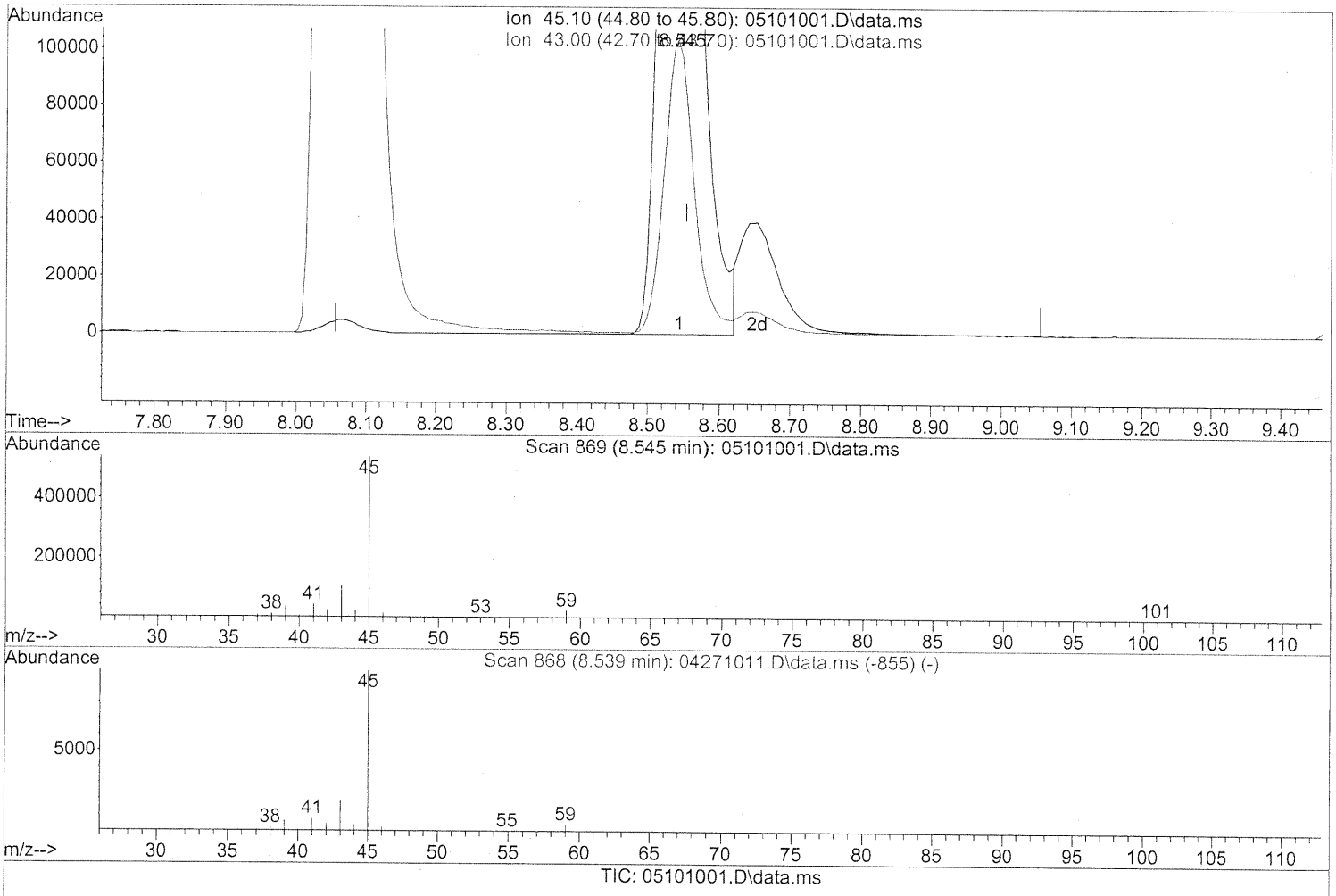
DA 5/10/10

CC
5-11-10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:08:36 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration



TIC: 05101001.D\data.ms

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

8.545min (-0.011) 31.51ng

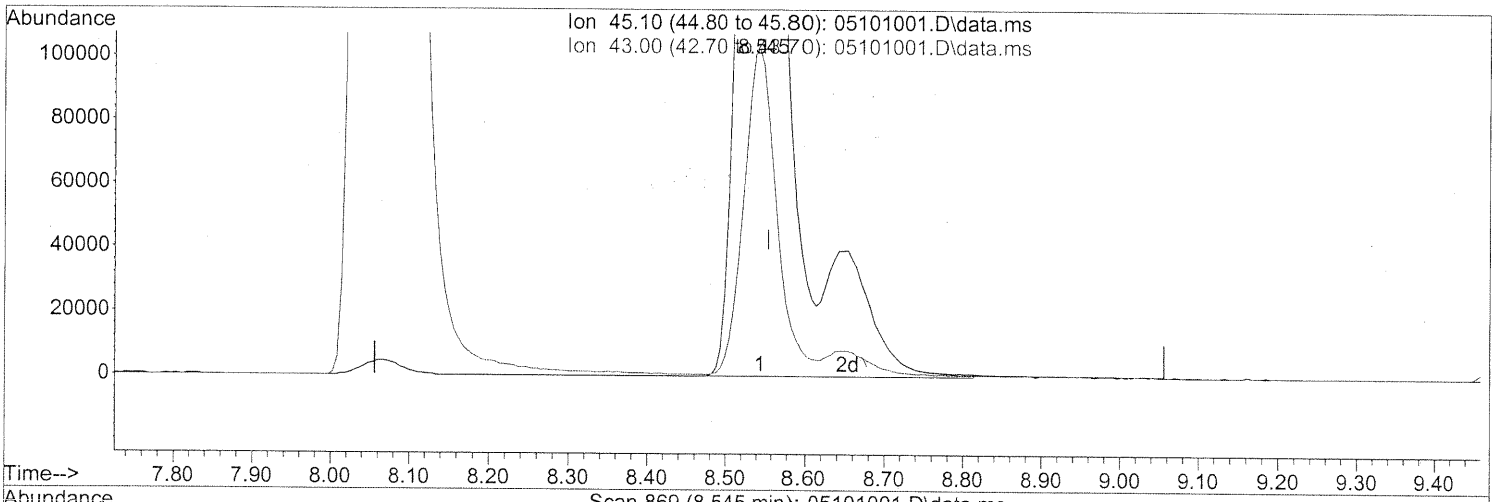
response 1585955

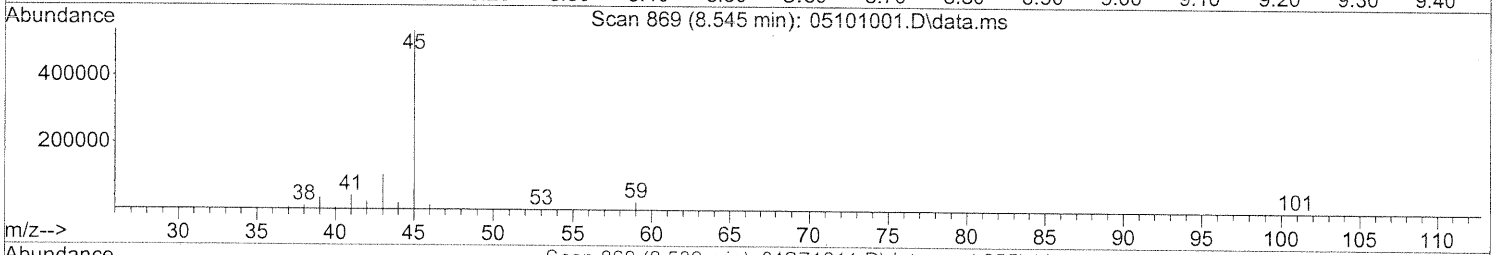
SP

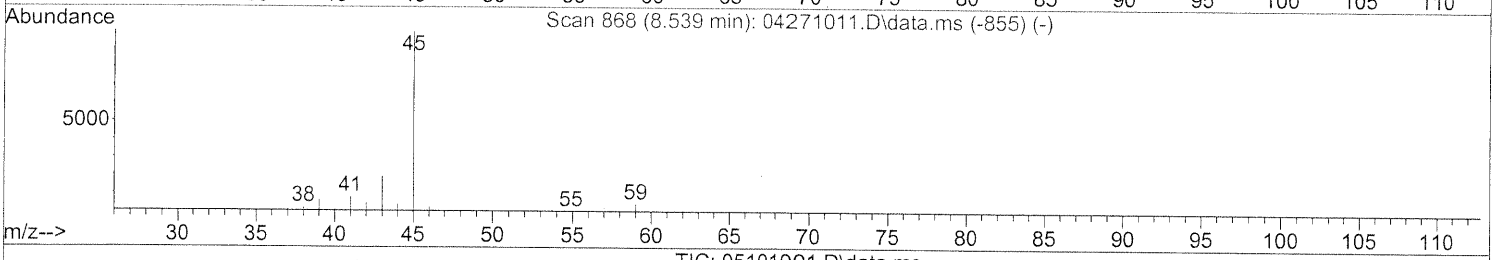
Ion	Exp%	Act%
45.10	100	100
43.00	19.20	19.29
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 14:08:36 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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TIC: 05101001.D\data.ms

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

8.545min (-0.011) 34.59ng m

response 1741134

Ion	Exp%	Act%
45.10	100	100
43.00	19.20	17.57
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

DA 5/10/10

CC
5-11-10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 09:11:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	116	0.02
2	T	Propene	1.416	1.625	-14.8	123	-0.04
3	T	Dichlorodifluoromethane (CF	3.331	2.844	14.6	103	-0.03
4	T	Chloromethane	2.019	1.777	12.0	104	-0.02
5	T	1,2-Dichloro-1,1,2,2-tetraf	1.935	1.643	15.1	102	-0.02
6	T	Vinyl Chloride	2.262	1.984	12.3	103	-0.02
7	T	1,3-Butadiene	1.648	1.539	6.6	104	-0.02
8	T	Bromomethane	1.510	1.325	12.3	103	0.00
9	T	Chloroethane	1.154	1.053	8.8	106	-0.02
10	T	Ethanol	0.863	0.896	-3.8	107	0.03
11	T	Acetonitrile	2.090	2.075	0.7	108	0.00
12	T	Acrolein	0.851	0.726	14.7	106	-0.02
13	T	Acetone	1.102	0.964	12.5	107	-0.03
14	T	Trichlorofluoromethane	3.031	2.662	12.2	104	-0.01
15	T	2-Propanol (Isopropanol)	3.212	2.324	27.6	89	-0.02
16	T	Acrylonitrile	1.680	1.695	-0.9	107	0.00
17	T	1,1-Dichloroethene	1.521	1.407	7.5	105	0.00
18	T	2-Methyl-2-Propanol (tert-B	3.791	3.530	6.9	105	-0.06
19	T	Methylene Chloride	1.658	1.426	14.0	105	0.02
20	T	3-Chloro-1-propene (Allyl C	1.675	1.729	-3.2	109	0.02
21	T	Trichlorotrifluoroethane	1.519	1.355	10.8	104	0.00
22	T	Carbon Disulfide	5.356	4.994	6.8	106	0.00
23	T	trans-1,2-Dichloroethene	2.005	1.907	4.9	106	0.01
24	T	1,1-Dichloroethane	2.610	2.384	8.7	106	0.02
25	T	Methyl tert-Butyl Ether	4.668	4.297	7.9	106	-0.05
26	T	Vinyl Acetate	0.384	0.355	7.6	96	0.02
27	T	2-Butanone (MEK)	1.013	0.985	2.8	106	-0.04
28	T	cis-1,2-Dichloroethene	1.945	1.801	7.4	104	0.02
29	T	Diisopropyl Ether	1.387	1.295	6.6	104	-0.02
30	T	Ethyl Acetate	0.538	0.536	0.4	104	-0.02
31	T	n-Hexane	2.563	2.337	8.8	106	0.00
32	T	Chloroform	2.724	2.411	11.5	103	0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.509	1.467	2.8	114	0.02
34	T	Tetrahydrofuran (THF)	0.984	0.915	7.0	103	0.00
35	T	Ethyl tert-Butyl Ether	2.040	1.909	6.4	105	-0.02
36	T	1,2-Dichloroethane	2.044	1.804	11.7	103	0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	115	0.01
38	T	1,1,1-Trichloroethane	0.525	0.480	8.6	104	0.00

5/11/10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 09:11:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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	0.192	0.195	-1.6	105	-0.02
40	T	1-Butanol	0.302	0.317	-5.0	104	-0.02
41	T	Benzene	1.423	1.231	13.5	105	0.01
42	T	Carbon Tetrachloride	0.437	0.416	4.8	105	0.02
43	T	Cyclohexane	0.530	0.491	7.4	105	0.00
44	T	tert-Amyl Methyl Ether	0.959	0.918	4.3	105	-0.02
45	T	1,2-Dichloropropane	0.310	0.287	7.4	105	0.01
46	T	Bromodichloromethane	0.427	0.409	4.2	103	0.01
47	T	Trichloroethene	0.397	0.362	8.8	104	0.02
48	T	1,4-Dioxane	0.277	0.268	3.2	104	-0.03
49	T	2,2,4-Trimethylpentane (Iso	1.307	1.225	6.3	106	0.00
50	T	Methyl Methacrylate	0.151	0.152	-0.7	105	0.00
51	T	n-Heptane	0.339	0.323	4.7	105	0.01
52	T	cis-1,3-Dichloropropene	0.507	0.503	0.8	104	0.00
53	T	4-Methyl-2-pentanone	0.270	0.275	-1.9	105	-0.02
54	T	trans-1,3-Dichloropropene	0.459	0.467	-1.7	104	0.00
55	T	1,1,2-Trichloroethane	0.328	0.310	5.5	105	0.00
56	IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	116	0.00
57	S	Toluene-d8 (SS2)	2.521	2.512	0.4	116	0.00
58	T	Toluene	3.556	3.195	10.2	105	0.00
59	T	2-Hexanone	1.506	1.487	1.3	105	-0.01
60	T	Dibromochloromethane	0.850	0.844	0.7	104	0.00
61	T	1,2-Dibromoethane	0.902	0.863	4.3	104	0.00
62	T	n-Butyl Acetate	1.718	1.731	-0.8	105	0.00
63	T	n-Octane	0.638	0.618	3.1	106	0.00
64	T	Tetrachloroethene	1.111	0.991	10.8	103	0.00
65	T	Chlorobenzene	2.363	2.101	11.1	104	0.00
66	T	Ethylbenzene	3.898	3.628	6.9	105	0.00
67	T	m- & p-Xylenes	3.080	2.881	6.5	105	0.03
68	T	Bromoform	0.798	0.838	-5.0	104	0.00
69	T	Styrene	2.423	2.348	3.1	104	0.00
70	T	o-Xylene	3.140	2.899	7.7	104	0.00
71	T	n-Nonane	1.370	1.297	5.3	106	0.00
72	T	1,1,2,2-Tetrachloroethane	1.322	1.258	4.8	103	0.00
73	S	Bromofluorobenzene (SS3)	0.883	0.868	1.7	114	0.00
74	T	Cumene	4.291	3.897	9.2	104	0.00
75	T	alpha-Pinene	1.991	1.892	5.0	104	0.00
76	T	n-Propylbenzene	4.977	4.640	6.8	104	0.00

5/11/10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 09:11:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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%

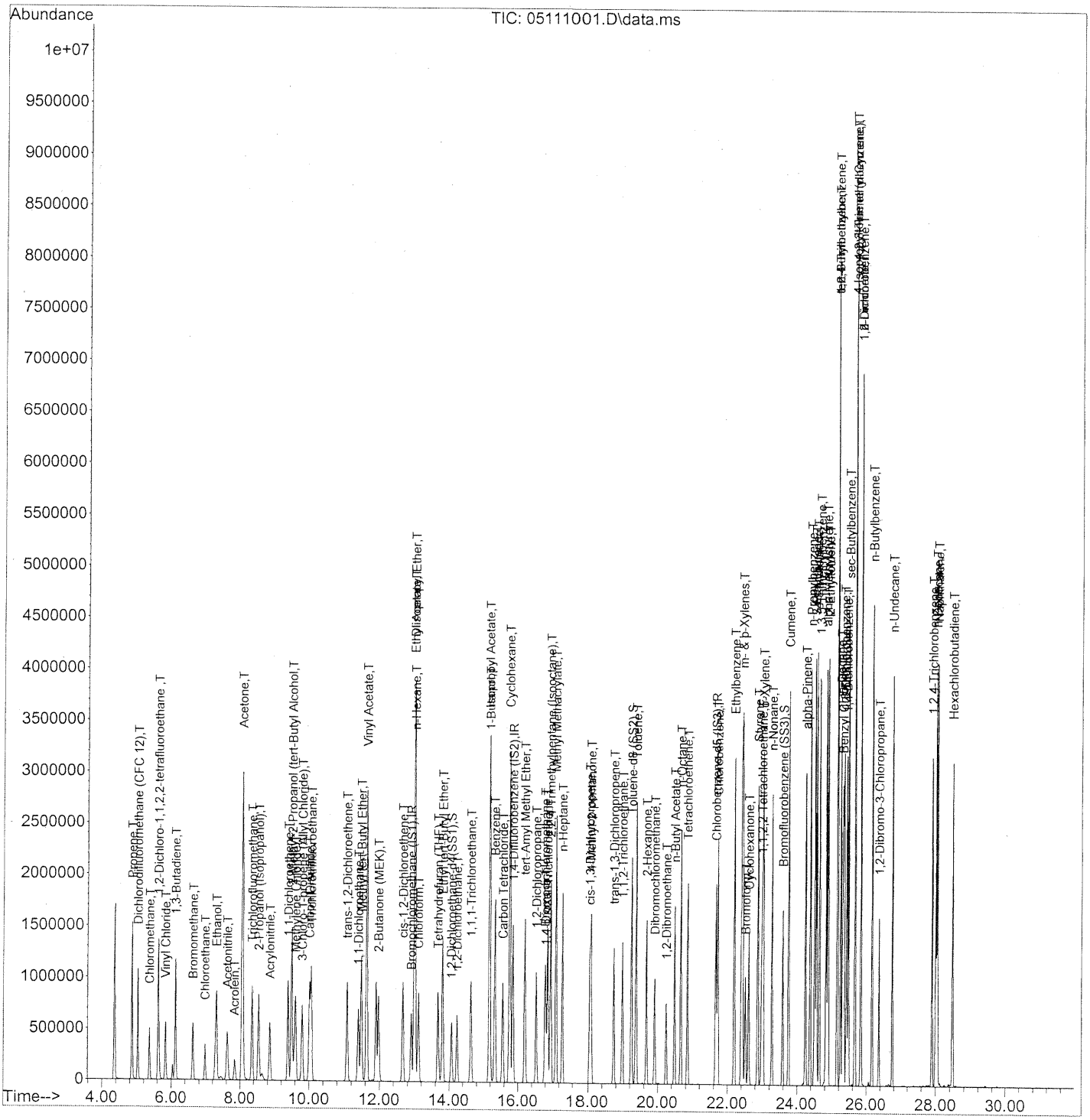
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	T	3-Ethyltoluene	3.929	3.661	6.8	103	0.00
78	T	4-Ethyltoluene	3.959	3.697	6.6	103	0.00
79	T	1,3,5-Trimethylbenzene	3.231	3.018	6.6	103	0.00
80	T	alpha-Methylstyrene	1.790	1.782	0.4	101	0.00
81	T	2-Ethyltoluene	4.077	3.792	7.0	102	0.00
82	T	1,2,4-Trimethylbenzene	3.341	3.226	3.4	101	0.00
83	T	n-Decane	1.523	1.458	4.3	104	0.00
84	T	Benzyl Chloride	2.507	2.694	-7.5	100	0.00
85	T	1,3-Dichlorobenzene	2.037	1.896	6.9	102	0.00
86	T	1,4-Dichlorobenzene	2.112	1.986	6.0	102	0.00
87	T	sec-Butylbenzene	4.535	4.241	6.5	102	0.00
88	T	4-Isopropyltoluene (p-Cymen	4.314	4.174	3.2	101	0.00
89	T	1,2,3-Trimethylbenzene	3.367	3.282	2.5	101	0.00
90	T	1,2-Dichlorobenzene	1.940	1.860	4.1	101	0.00
91	T	d-Limonene	1.160	1.173	-1.1	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.624	0.664	-6.4	101	0.00
93	T	n-Undecane	1.508	1.501	0.5	104	0.00
94	T	1,2,4-Trichlorobenzene	1.372	1.403	-2.3	102	0.00
95	T	Naphthalene	4.243	4.664	-9.9	104	0.00
96	T	n-Dodecane	1.563	1.651	-5.6	105	0.00
97	T	Hexachlorobutadiene	0.885	0.860	2.8	101	0.00
98	T	Cyclohexanone	1.020	1.001	1.9	104	-0.01
99	T	tert-Butylbenzene	3.455	3.249	6.0	101	0.00
100	T	n-Butylbenzene	3.441	3.302	4.0	102	0.00

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

DA 5/11/10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 09:11:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
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Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.90	130	397578	25.000	ng		0.02
37) 1,4-Difluorobenzene (IS2)	15.85	114	1882667	25.000	ng		0.01
56) Chlorobenzene-d5 (IS3)	21.66	82	786986	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.06	65	583279	24.308	ng		0.02
Spiked Amount 25.000			Recovery =	97.24%			
57) Toluene-d8 (SS2)	19.24	98	1977277	24.911	ng		0.00
Spiked Amount 25.000			Recovery =	99.64%			
73) Bromofluorobenzene (SS3)	23.59	174	683129	24.570	ng		0.00
Spiked Amount 25.000			Recovery =	98.28%			
Target Compounds							Qvalue
2) Propene	4.86	42	692604	30.750	ng		99
3) Dichlorodifluoromethan...	5.03	85	1189532	22.457	ng		99
4) Chloromethane	5.37	50	706358	21.999	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.63	135	692264	22.497	ng		100
6) Vinyl Chloride	5.83	62	798410	22.200	ng		100
7) 1,3-Butadiene	6.12	54	734440	28.021	ng		92
8) Bromomethane	6.63	94	537241	22.371	ng		99
9) Chloroethane	6.98	64	423532	23.082	ng		99
10) Ethanol	7.31	45	1852953m	135.062	ng		
11) Acetonitrile	7.63	41	867848	26.106	ng		99
12) Acrolein	7.84	56	311852	23.049	ng		99
13) Acetone	8.07	58	2116137	120.707	ng	#	85
14) Trichlorofluoromethane	8.35	101	1113454	23.099	ng		99
15) 2-Propanol (Isopropanol)	8.54	45	1748271m	34.227	ng		
16) Acrylonitrile	8.87	53	714518	26.744	ng		99
17) 1,1-Dichloroethene	9.40	96	615298	25.437	ng	#	72
18) 2-Methyl-2-Propanol (t...	9.51	59	2835241	47.032	ng		95
19) Methylene Chloride	9.61	84	607638	23.044	ng	#	73
20) 3-Chloro-1-propene (Al...	9.80	41	742383	27.875	ng		79
21) Trichlorotrifluoroethane	10.06	151	592722	24.531	ng	#	75
22) Carbon Disulfide	10.01	76	2128453	24.988	ng		98
23) trans-1,2-Dichloroethene	11.08	61	803823	25.212	ng		77
24) 1,1-Dichloroethane	11.40	63	1004729	24.206	ng		100
25) Methyl tert-Butyl Ether	11.48	73	1865763	25.133	ng		94
26) Vinyl Acetate	11.64	86	711588	116.638	ng	#	21
27) 2-Butanone (MEK)	11.97	72	430841	26.757	ng	#	64
28) cis-1,2-Dichloroethene	12.66	61	782015	25.279	ng		75
29) Diisopropyl Ether	13.00	87	552028	25.033	ng	#	35
30) Ethyl Acetate	13.00	61	454468	53.142	ng		89
31) n-Hexane	13.02	57	1014703	24.894	ng	#	97

5/11/10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 09:11:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.12	83	1027609	23.721	ng		98
34) Tetrahydrofuran (THF)	13.67	72	400034	25.574	ng	#	75
35) Ethyl tert-Butyl Ether	13.81	87	783391	24.150	ng	#	75
36) 1,2-Dichloroethane	14.23	62	760332	23.386	ng		99
38) 1,1,1-Trichloroethane	14.63	97	951327	24.063	ng		95
39) Isopropyl Acetate	15.17	61	768602	53.160	ng	#	87
40) 1-Butanol	15.18	56	1236849	54.474	ng		93
41) Benzene	15.33	78	2455710	22.912	ng		99
42) Carbon Tetrachloride	15.56	117	846053	25.692	ng		99
43) Cyclohexane	15.75	84	1988645	49.834	ng	#	80
44) tert-Amyl Methyl Ether	16.20	73	1797914	24.894	ng		91
45) 1,2-Dichloropropane	16.53	63	568326	24.358	ng		99
46) Bromodichloromethane	16.79	83	832226	25.862	ng		98
47) Trichloroethene	16.87	130	721483	24.122	ng		99
48) 1,4-Dioxane	16.81	88	541316	25.908	ng		82
49) 2,2,4-Trimethylpentane...	16.95	57	2398055	24.358	ng		95
50) Methyl Methacrylate	17.11	100	609357	53.659	ng	#	62
51) n-Heptane	17.31	71	643636	25.243	ng		88
52) cis-1,3-Dichloropropene	18.04	75	939969	24.638	ng		100
53) 4-Methyl-2-pentanone	18.08	58	569123	28.042	ng	#	84
54) trans-1,3-Dichloropropene	18.74	75	966359	27.975	ng		100
55) 1,1,2-Trichloroethane	18.98	97	614385	24.890	ng		93
58) Toluene	19.38	91	2715649	24.259	ng		98
59) 2-Hexanone	19.67	43	1287143	27.157	ng		90
60) Dibromochloromethane	19.91	129	765183	28.595	ng		100
61) 1,2-Dibromoethane	20.24	107	719889	25.349	ng		99
62) n-Butyl Acetate	20.48	43	1498913	27.710	ng		92
63) n-Octane	20.66	57	521428	25.958	ng	#	80
64) Tetrachloroethene	20.85	166	795211	22.733	ng		100
65) Chlorobenzene	21.72	112	1785705	24.006	ng		99
66) Ethylbenzene	22.19	91	3026272	24.665	ng		95
67) m- & p-Xylenes	22.43	91	4715504	48.640	ng		92
68) Bromoform	22.52	173	680480	27.074	ng		99
69) Styrene	22.87	104	1980865	25.970	ng		94
70) o-Xylene	23.02	91	2418669	24.471	ng		93
71) n-Nonane	23.28	43	1081689	25.088	ng		84
72) 1,1,2,2-Tetrachloroethane	22.99	83	1061363	25.499	ng		98
74) Cumene	23.76	105	3165330	23.436	ng		95
75) alpha-Pinene	24.25	93	1506542	24.040	ng		94
76) n-Propylbenzene	24.38	91	3768340	24.052	ng		93
77) 3-Ethyltoluene	24.51	105	3146430	25.438	ng		95
78) 4-Ethyltoluene	24.56	105	3176971	25.491	ng		94
79) 1,3,5-Trimethylbenzene	24.64	105	2593806	25.503	ng		92

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

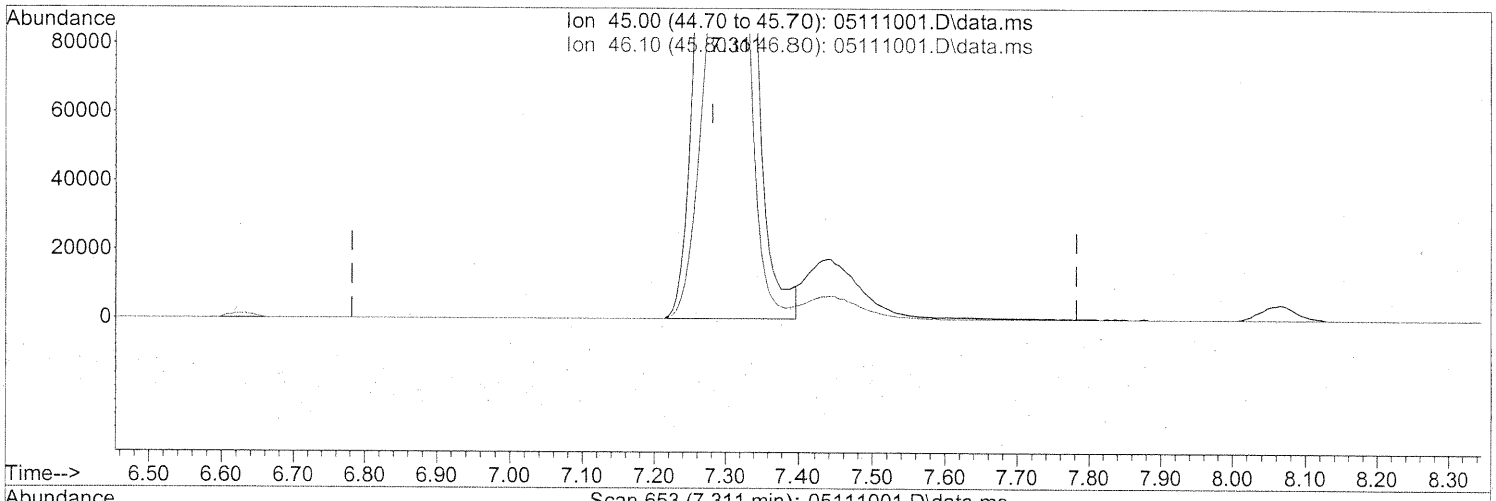
Quant Time: May 11 09:11:52 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration

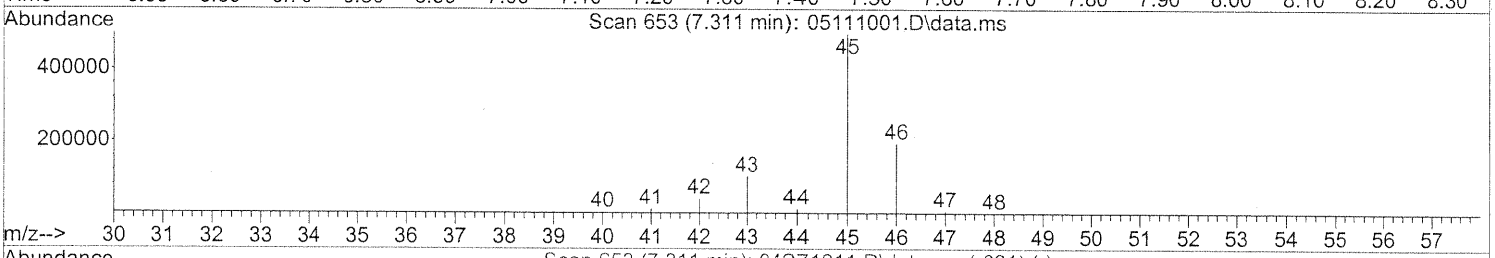
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.83	118	1503259	26.674	ng		97
81) 2-Ethyltoluene	24.88	105	3139369	24.460	ng		94
82) 1,2,4-Trimethylbenzene	25.15	105	2691343	25.591	ng		92
83) n-Decane	25.25	57	1239274	25.857	ng		89
84) Benzyl Chloride	25.31	91	2332546	29.558	ng		89
85) 1,3-Dichlorobenzene	25.35	146	1629050	25.402	ng		99
86) 1,4-Dichlorobenzene	25.43	146	1656613	24.913	ng		100
87) sec-Butylbenzene	25.48	105	3537600	24.781	ng		94
88) 4-Isopropyltoluene (p-...	25.67	119	3390123	24.961	ng		94
89) 1,2,3-Trimethylbenzene	25.67	105	2769272	26.129	ng		91
90) 1,2-Dichlorobenzene	25.84	146	1551633	25.406	ng		99
91) d-Limonene	25.84	68	1008257	27.608	ng		82
92) 1,2-Dibromo-3-Chloropr...	26.36	157	575081	29.272	ng	#	60
93) n-Undecane	26.76	57	1289729	27.176	ng		88
94) 1,2,4-Trichlorobenzene	27.90	180	1236805	28.632	ng		99
95) Naphthalene	28.05	128	3891053	29.133	ng		100
96) n-Dodecane	28.01	57	1288918	26.193	ng		88
97) Hexachlorobutadiene	28.48	225	744086	26.709	ng		99
98) Cyclohexanone	22.61	55	772362	24.051	ng	#	86
99) tert-Butylbenzene	25.15	119	2710255	24.918	ng		95
100) n-Butylbenzene	26.17	91	2837936	26.200	ng	#	95

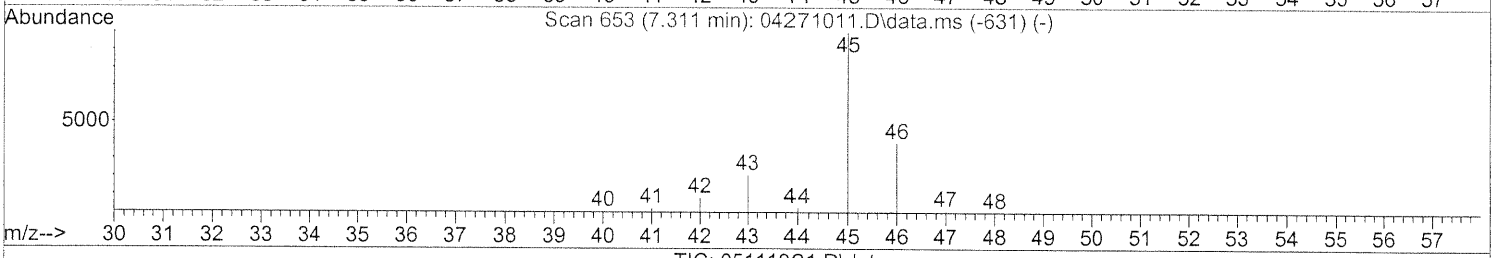
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 09:11:07 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05111001.D\data.ms

(10) Ethanol (T)

7.311min (+0.029) 128.55ng

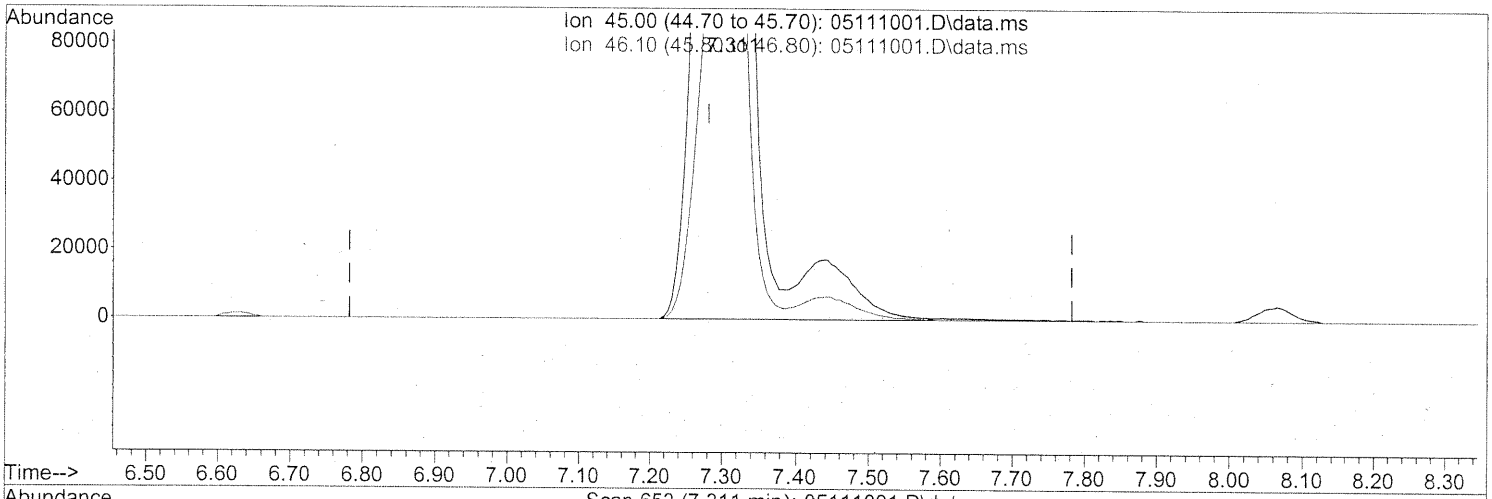
response 1763668

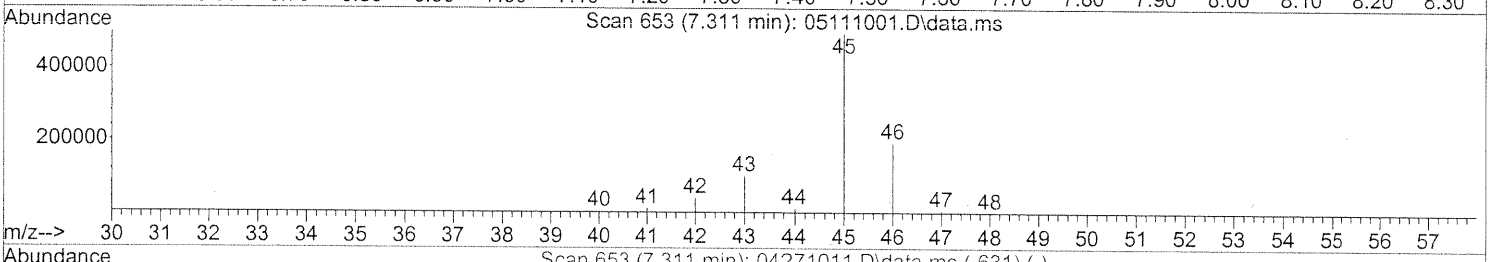
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.71
0.00	0.00	0.00
0.00	0.00	0.00

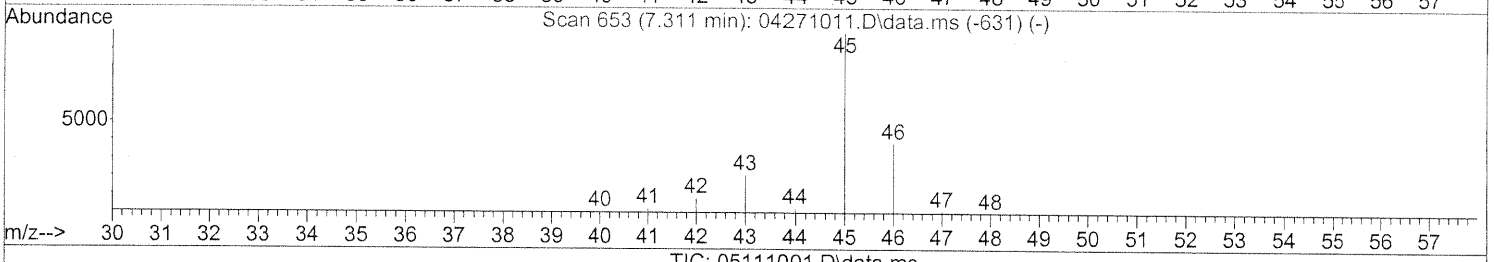
SP

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 09:11:07 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05111001.D\data.ms

(10) Ethanol (T)

7.311min (+0.029) 135.06ng m

response 1852953

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	36.84
0.00	0.00	0.00
0.00	0.00	0.00

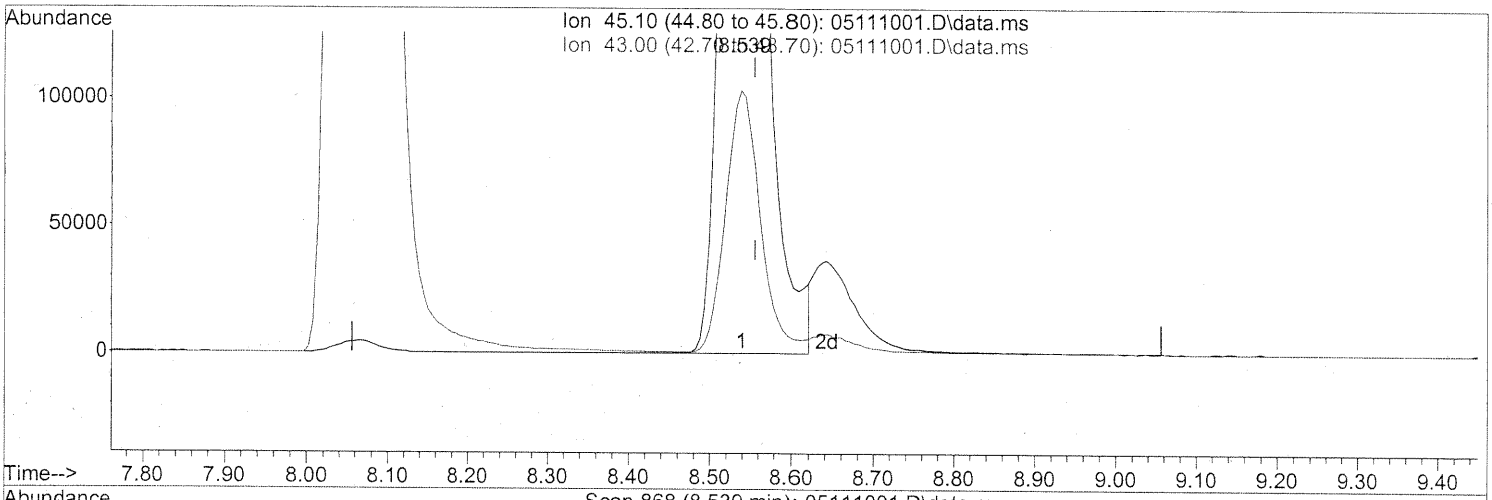
SP → IC

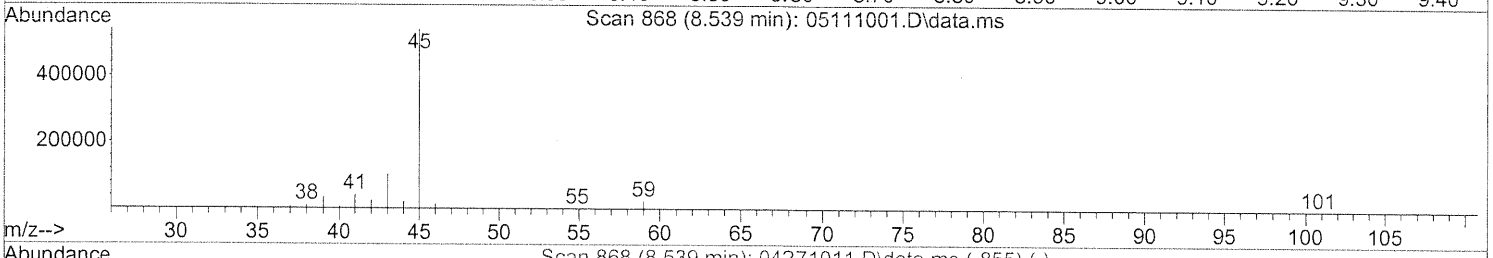
JSH 5/11/10

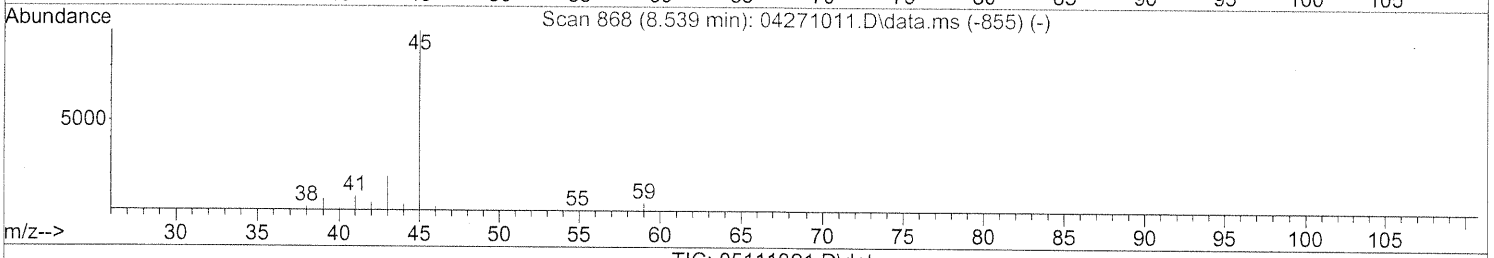
5/11/10

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 09:11:07 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05111001.D\data.ms

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

8.539min (-0.017) 31.62ng

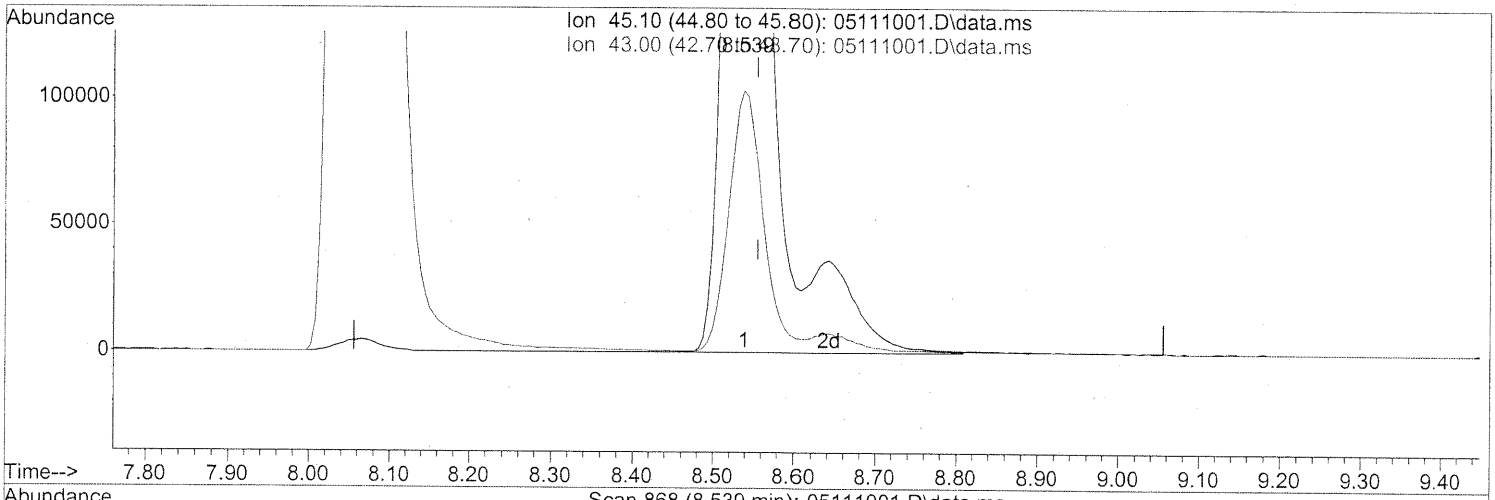
response 1615163

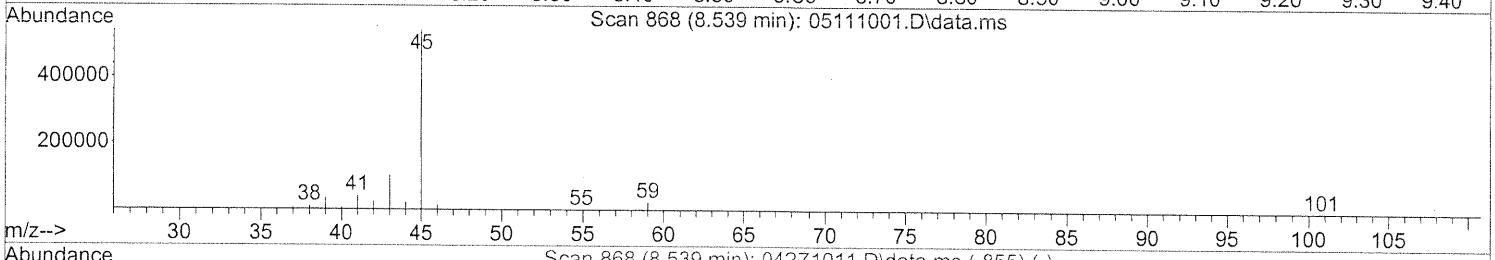
SP

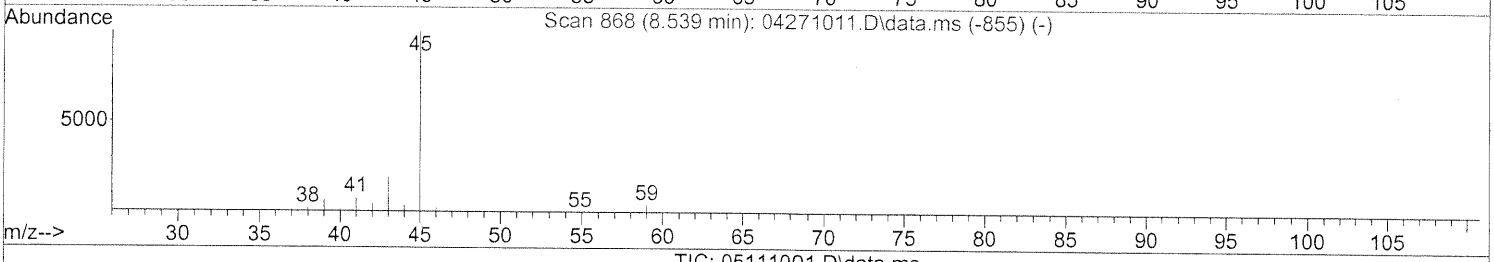
Ion	Exp%	Act%
45.10	100	100
43.00	19.20	19.07
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 09:11:07 2010
Quant Method : J:\MS09\Methods\R9042710.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Apr 28 14:31:40 2010
Response via : Initial Calibration







TIC: 05111001.D\data.ms

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

8.539min (-0.017) 34.23ng m

response 1748271

Ion	Exp%	Act%
45.10	100	100
43.00	19.20	17.62
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

5/11/10

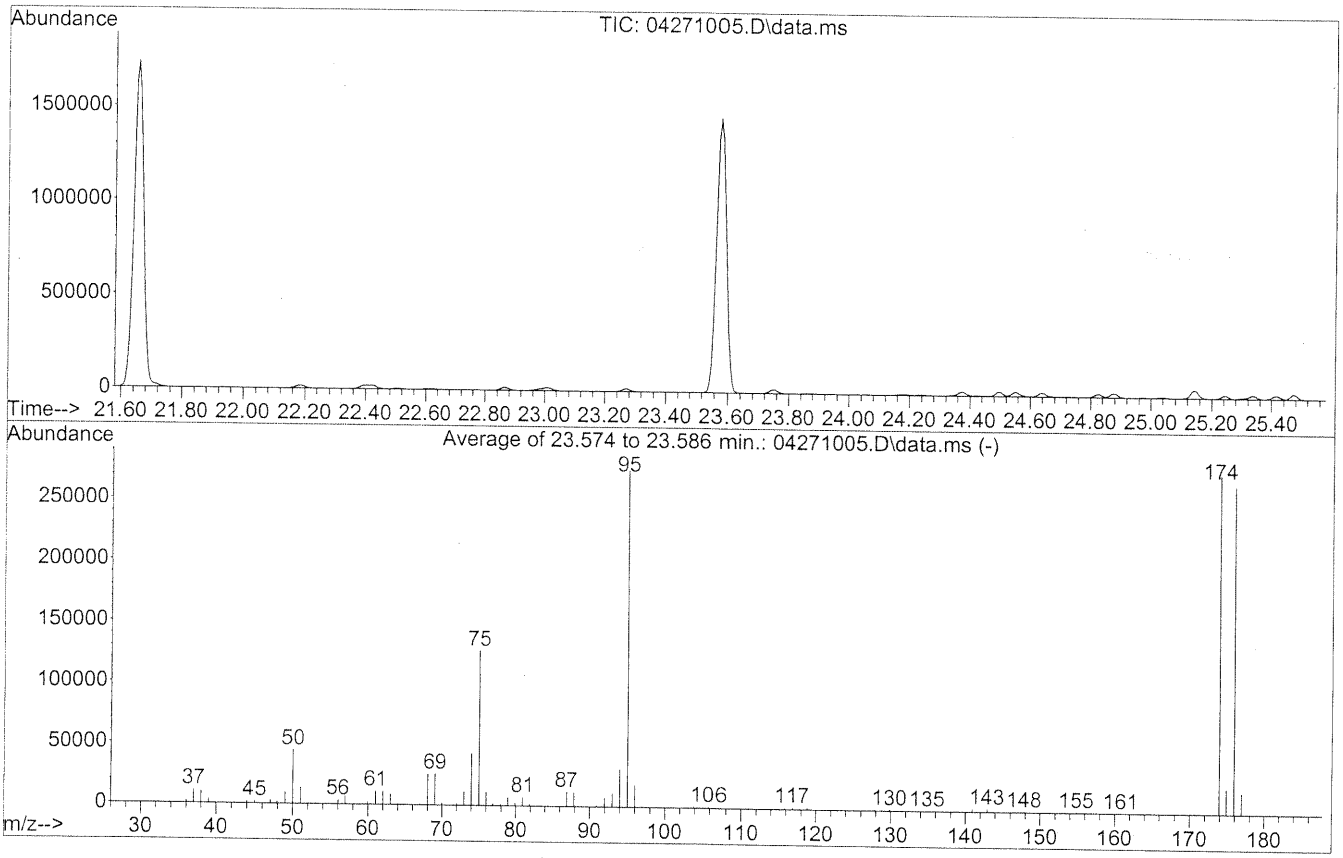
5/11/10

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS09\Data\2010_04\27\
Data File : 04271005.D
Acq On : 27 Apr 2010 17:40
Operator : WA
Sample : 25ng TO-15 BFB STD
Misc : S20-04261002
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9042710.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Wed Apr 28 14:31:40 2010



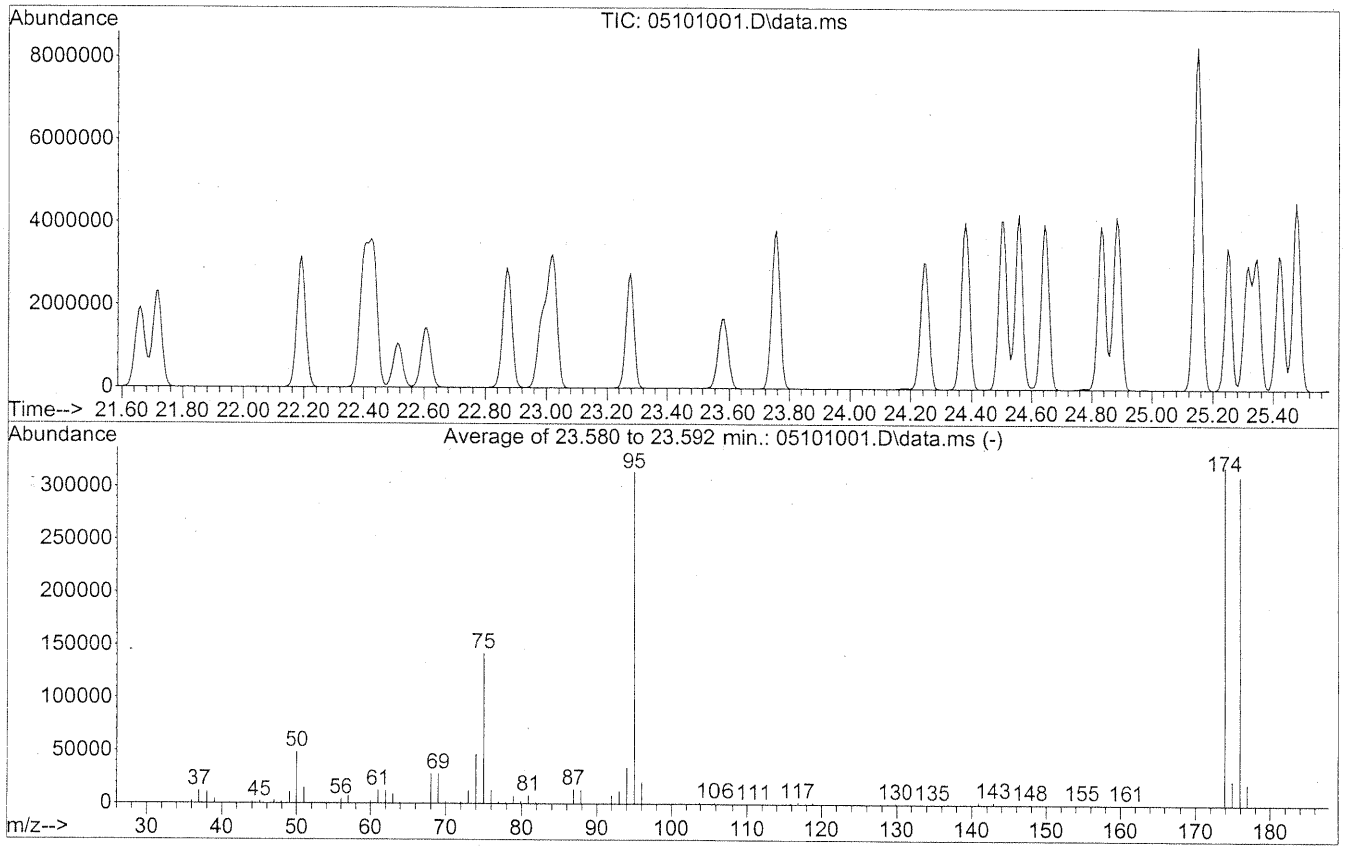
AutoFind: Scans 3500, 3501, 3502; Background Corrected with Scan 3490

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.0	44192	PASS
75	95	30	66	46.0	126891	PASS
95	95	100	100	100.0	275776	PASS
96	95	5	9	6.5	17932	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	100.4	276800	PASS
175	174	4	9	7.3	20304	PASS
176	174	93	101	96.8	267861	PASS
177	176	5	9	6.4	17173	PASS

Data Path : J:\MS09\Data\2010_05\10\
Data File : 05101001.D
Acq On : 10 May 2010 11:48
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9042710.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Wed Apr 28 14:31:40 2010



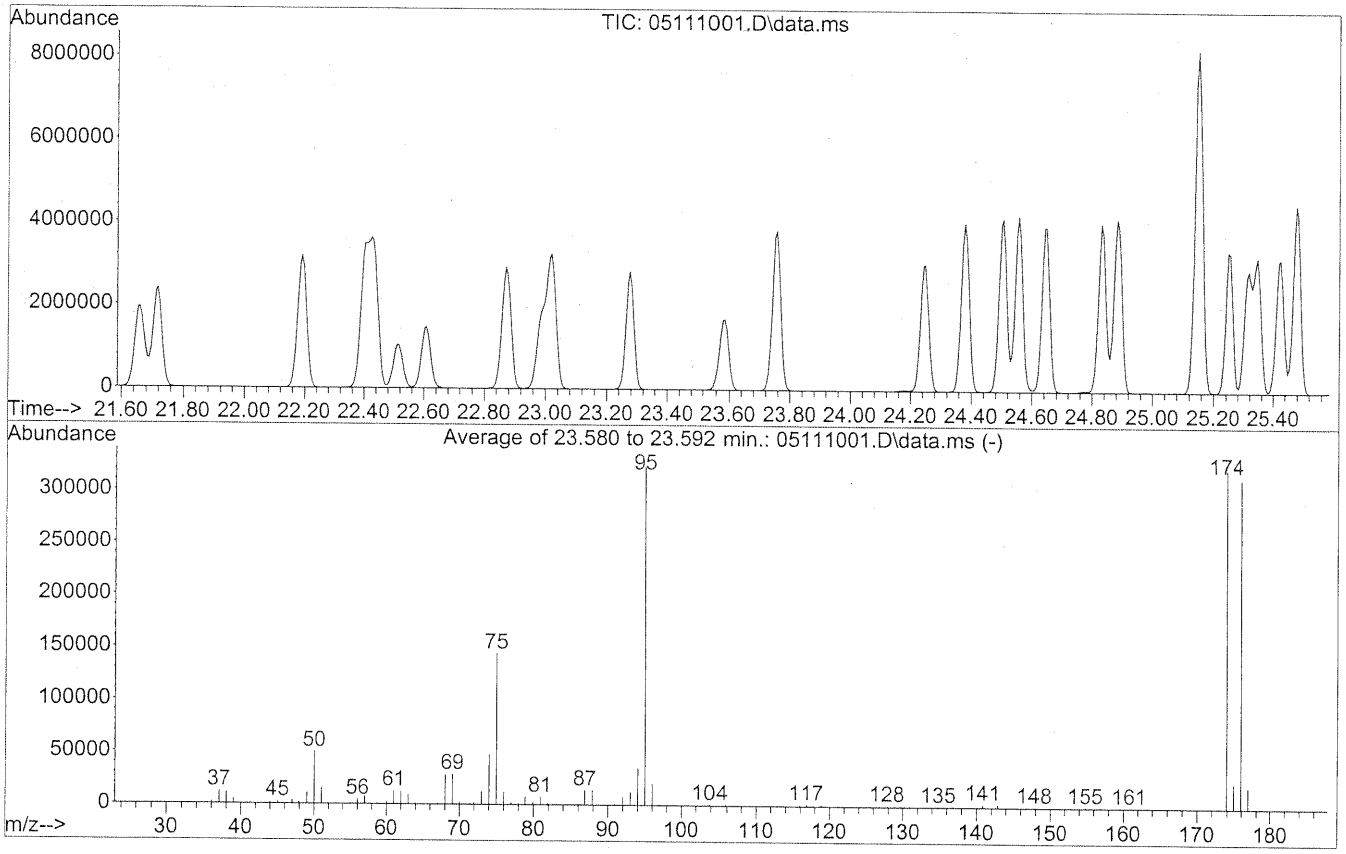
AutoFind: Scans 3501, 3502, 3503; Background Corrected with Scan 3490

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.4	48547	PASS
75	95	30	66	45.1	141779	PASS
95	95	100	100	100.0	314283	PASS
96	95	5	9	6.4	20062	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	101.9	320256	PASS
175	174	4	9	7.2	22984	PASS
176	174	93	101	97.3	311573	PASS
177	176	5	9	6.4	19971	PASS

Data Path : J:\MS09\Data\2010_05\11\
Data File : 05111001.D
Acq On : 11 May 2010 7:57
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-04261002/S20-04211005
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9042710.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Wed Apr 28 14:31:40 2010



AutoFind: Scans 3501, 3502, 3503; Background Corrected with Scan 3490

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.4	49704	PASS
75	95	30	66	44.5	143877	PASS
95	95	100	100	100.0	323029	PASS
96	95	5	9	6.4	20531	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	100.0	323008	PASS
175	174	4	9	7.4	23757	PASS
176	174	93	101	97.2	313813	PASS
177	176	5	9	6.5	20264	PASS

RUN LOGS

ASI 4/28/10

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	04/27/10 14:49	04271001.D	TO-15 STD Check (2.5)	S20-04261002/S20-04191001	WA	1	
2	04/27/10 15:30	04271002.D	TO-15 STD Check (0.1)	S20-04261002/S20-04261003	WA	13	
3	04/27/10 16:17	04271003.D	25ng TO-15 BFB STD	S20-04261002	WA	4	
4	04/27/10 16:58	04271004.D	0.1ng TO-15 ICAL STD	S20-04261002/S20-04191001	WA	13	
5	04/27/10 17:40	04271005.D	25ng TO-15 BFB STD	S20-04261002	WA	4	*Pass*
6	04/27/10 18:22	04271006.D	0.1ng TO-15 ICAL STD	S20-04261002/S20-04191001	WA	13	
7	04/27/10 19:03	04271007.D	0.2ng TO-15 ICAL STD	S20-04261002/S20-04191001	WA	13	
8	04/27/10 19:45	04271008.D	0.5ng TO-15 ICAL STD	S20-04261002/S20-04261003	WA	1	
9	04/27/10 20:27	04271009.D	1.0ng TO-15 ICAL STD	S20-04261002/S20-04261003	WA	1	
10	04/27/10 21:09	04271010.D	5.0ng TO-15 ICAL STD	S20-04261002/S20-04261003	WA	1	
11	04/27/10 21:51	04271011.D	25ng TO-15 ICAL STD	S20-04261002/S20-04191004	WA	1	
12	04/27/10 22:33	04271012.D	50ng TO-15 ICAL STD	S20-04261002/S20-04191004	WA	1	
13	04/27/10 23:15	04271013.D	100ng TO-15 ICAL STD	S20-04261002/S20-04191004	WA	1	
	ICALsaved as R9042710.M; good from 0.1ng ---> 100ng; except: tert-Butanol: 0.2ng ---> 100ng						
14	04/27/10 23:57	04271014.D	25ng TO-15 ICV STD	S20-04261002/S20-04231001	WA	3	Pass all cmpds

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/10/10 11:48	05101001.D	25ng TO-15 CCV STD	S20-04261002/S20-04211005	WA	4	Passed
2	05/10/10 12:30	05101002.D	2.5ng TO-15 Custom STD	S20-04261002/S20-04191004	WA	2	Passed
3	05/10/10 13:28	05101003.D	TO-15 Method Blank (1000mL)	S20-04261002	WA	4	Passed
4	05/10/10 14:25	05101004.D	P1001583-001 (0.05mL)		WA	1	case file
5	05/10/10 15:07	05101005.D	Blank		WA	1	
6	05/10/10 15:52	05101006.D	P1001583-001 (0.12mL)		WA	1	case file
7	05/10/10 16:37	05101007.D	P1001583-001 (0.10mL)		WA	1	
8	05/10/10 17:19	05101008.D	P1001583-001 Dup (0.10mL)		WA	1	case file
9	05/10/10 18:01	05101009.D	25ng TO-15 LCS STD	S20-04261002/S20-04231001	WA	3	Passed
10	05/10/10 18:42	05101010.D	25ng TO-15 LCSD STD	S20-04261002/S20-04231001	WA	3	Passed
11	05/10/10 19:24	05101011.D	P1001603-006 Dil (100mL)		WA	10	
12	05/10/10 20:06	05101012.D	P1001603-001 (1000mL)		WA	5	
13	05/10/10 20:48	05101013.D	P1001603-001 Dup(1000mL)		WA	5	Passed
14	05/10/10 21:30	05101014.D	P1001603-002 (1000mL)		WA	6	
15	05/10/10 22:12	05101015.D	P1001603-003 (1000mL)		WA	7	
16	05/10/10 22:54	05101016.D	P1001603-004 (1000mL)		WA	8	
17	05/10/10 23:35	05101017.D	P1001603-005 (1000mL)		WA	9	
18	05/11/10 0:17	05101018.D	P1001603-007 (1000mL)		WA	11	
19	05/11/10 0:59	05101019.D	P1001603-008 (1000mL)		WA	12	
20	05/11/10 1:40	05101020.D	P1001603-009 (1000mL)		WA	13	
21	05/11/10 2:22	05101021.D	Blank		WA	1	
22	05/11/10 3:04	05101022.D	P1001603-010 (1000mL)		WA	14	
23	05/11/10 3:46	05101023.D	P1001603-006 (1000mL)		WA	10	
24	05/11/10 4:28	05101024.D	P1001603-002 Dil (100mL)		WA	6	
25	05/11/10 5:10	05101025.D	P1001603-004 Dil (100mL)		WA	8	
26	05/11/10 5:52	05101026.D	P1001603-007 Dil (100mL)		WA	11	
27	05/11/10 6:34	05101027.D	P1001603-009 Dil (100mL)		WA	13	
28	05/11/10 7:15	05101028.D	blank		WA	1	

Dt 5/11/10

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/11/10 7:57	05111001.D	25ng TO-15 CCV STD	S20-04261002/S20-04211005	WA	4	Passed
2	05/11/10 8:39	05111002.D	2.5ng TO-15 Custom STD	S20-04261002/S20-04191004	WA	2	Passed
3	05/11/10 9:21	05111003.D	TO-15 Method Blank (1000mL)	S20-04261002	WA	4	Passed
4	05/11/10 10:09	05111004.D	P1001603-001 Dil (100mL)		WA	5	
5	05/11/10 10:51	05111005.D	P1001603-001 DupDil (100mL)		WA	5	
6	05/11/10 11:33	05111006.D	P1001589-007 Dil (50mL)		WA	16	
7	05/11/10 12:19	05111007.D	Test Dil-Bag		WA	13	
8	05/11/10 13:01	05111008.D	25ng TO-15 LCS STD	S20-04261002/S20-04231001	WA	3	Passed
9	05/11/10 13:43	05111009.D	P1001567-002 (0.15mL)		WA	1	
10	05/11/10 14:25	05111010.D	P1001567-003 (3.0mL)		WA	1	
11	05/11/10 15:07	05111011.D	P1001567-004 (7.0mL)		WA	1	
12	05/11/10 16:08	05111012.D	test 1627-004	5ml	WA	1	Test

cont next page

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment	
13	05/11/10 16:50	05111013.D	P1001627-004 (8.0mL)		WA	1		
14	05/11/10 17:31	05111014.D	P1001567-004 (40mL)		WA	12		
15	05/11/10 18:14	05111015.D	P1001567-005 (150mL)		WA	6		
16	05/11/10 18:55	05111016.D	P1001567-001 (100mL)		WA	5	*case file*	
17	05/11/10 19:37	05111017.D	P1001627-017 (60mL)		WA	8		
18	05/11/10 20:19	05111018.D	P1001627-017 Dil (15mL)		WA	8		
19	05/11/10 21:01	05111019.D	P1001567-005 Dup (150mL)		WA	6		
20	05/11/10 21:43	05111020.D	P1001627-001 (300mL)		WA	11		
21	05/11/10 22:25	05111021.D	P1001627-002 (50mL)		WA	13		
22	05/11/10 23:07	05111022.D	P1001627-002 Dil (10mL)		WA	13	*case file*	
23	05/11/10 23:49	05111023.D	P1001627-003 (250mL)		WA	14		
24	05/12/10 0:31	05111024.D	P1001627-018 (250mL)		WA	5		
25	05/12/10 1:13	05111025.D	P1001567-001 (250mL)		WA	12		
26	05/12/10 1:54	05111026.D	P1001567-004 Dil (15mL)		WA	3		
27	05/12/10 2:36	05111027.D	25ng TO-15 LSCD STD	S20-04261002/S20-04231001	WA	1	Passed	5/12/10