LABORATORY REPORT

October 19, 2011

Melissa Schuetz
ARCADIS U.S., Inc.
320 Commerce St, Suite 200
Irvine, CA 92602

RE: Jones Chemical Torrance / CM010270

Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on September 23, 2011. For your reference, these analyses have been assigned our service request number P1103662.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-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.

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-R2; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-11-2; Minnesota Department of Health, NELAP Certificate No. 219474; Washington State Department of Ecology, ELAP Lab ID: C946. 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 Digitally signed by Kate Aguilera
Date: 2011.10.19 12:34:19 -07'00'

Kate Aguilera
Project Manager

Client: ARCADIS U.S., Inc. CAS Project No: P1103662
Project: Jones Chemical Torrance / CM010270

CASE NARRATIVE

The samples were received intact under chain of custody on September 23, 2011 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 in Scan and SIM modes for 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.

Use of Columbia Analytical Services, Inc. (CAS) Name. Client shall not use CAS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to CAS any test result, tolerance or specification derived from CAS's data ("Attribution") without CAS's prior written consent, which may be withheld by CAS for any reason in its sole discretion. To request CAS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If CAS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use CAS's name or trademark in any Materials or Attribution shall be deemed denied. CAS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of CAS's name or trademark may cause CAS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

DETAIL SUMMARY REPORT

Client: ARCADIS U.S., Inc.
Service Request: P1103662
Project ID: Jones Chemical Torrance / CM010270

Date Received: 9/23/2011
Time Received: 16:28

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans	TO-15 - VOC SIM
AUS-IA-1	P1103662-001	Air	9/23/2011	13:50	AC00812	-3.37	3.50	X	X
AUS-IA-2	P1103662-002	Air	9/23/2011	13:55	AC01555	-3.56	3.55	X	X
AUS-IA-3	P1103662-003	Air	9/23/2011	11:10	AC01373	-1.63	3.50	X	X
AUS-IA-4	P1103662-004	Air	9/23/2011	11:16	AC01206	-0.66	3.50	X	X
AUS-IA-5	P1103662-005	Air	9/23/2011	14:32	AC00640	-1.93	3.83	X	X
AUS-IA-6	P1103662-006	Air	9/23/2011	14:35	AC01601	-2.78	3.67	X	X
AUG-IA-AMB-1	P1103662-007	Air	9/23/2011	14:15	AC00468	-2.56	3.50	X	X
AUG-IA-AMB-2	P1103662-008	Air	9/23/2011	14:28	AC00603	-3.15	3.50	X	X
AUS-IA-DUP	P1103662-009	Air	9/23/2011	14:35	AC00710	-1.27	3.50	X	X

Columbia Analytical Services
2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Air - Chain of Custody Record & Analytical Service Request

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No. P1103662

CAS Contact: Nicole Renoue Bryson

Company Name & Address (Reporting Information): ARCADIS U.S. Inc. 320 Commerce, Suite 200 ~~Costa Mesa, CA~~ Irvine, CA

Project Name: Jones Chemical Torrance

Project Number: CM010270

Project Manager: Melissa Schuetz

P.O. # / Billing Information: CM010270

Phone: 714-730-9052

Fax: –

Email Address for Result Reporting: melissa.schuetz@arcadis-us.com

Sampler (Print & Sign): James Gonzales

Analysis Method: TO-15

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	TO-15		Comments e.g. Actual Preservative or specific instructions
AUS-1A-1	1 -3.17	9/22 – 9/23/11	Start(S): 1413 End(E): 1350	AC00812	FCA00291	29	7		X		
AUS-1A-2	2 -3.38		S: 1414 E: 1355	AC01555	FCA00042	29.5	6.5		X		
AUS-1A-3	3 -1.40		S: 1419 E: 1110	AC01373	FCA00284	30	3		X		
AUS-1A-4	4 -0.33		S: 1439 E: 1116	AC01206	FCA00304	30	2		X		
AUS-1A-5	5 -1.72		S: 1450 E: 1432	AC00640	FCA00239	30+	7.5		X		
AUS-1A-6	6 -2.59		S: 1454 E: 1435	AC01601	FCA00296	30+	6.5		X		
AUG-1A-AMB-1	7 -2.35		S: 1429 E: 1415	AC00468	FCA00280	29	6		X		
AUG-1A-AMB-2	8 -3.00		S: 1448 E: 1428	AC00603	FCA00009	29.5	6.5		X		
AUS-1A-DUP	9 -1.04		S: 1454 E: 1435	AC00710	FCA00355	30	6		X		

End of Record
James Gonzales

Report Tier Levels - please select
Tier I - Results (Default if not specified) ____
Tier II (Results + QC Summaries) ____
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Data Validation Package) 10% Surcharge X

EDD required Yes / No
Type: ____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
James Gonzales	9/23	1438	[signature]	9/23	1438
			[signature]	9/23/11	1628

Cooler / Blank Temperature ____°C

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Sample Acceptance Check Form

Client: ARCADIS U.S., Inc. Work order: P1103662

Project: Jones Chemical Torrance / CM010270

Sample(s) received on: 9/23/11 Date opened: 9/23/11 by: MZAMORA

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	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	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?	☐	☐	☒
11	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?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**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
P1103662-001.01	6.0 L Ambient Can					
P1103662-002.01	6.0 L Ambient Can					
P1103662-003.01	6.0 L Ambient Can					
P1103662-004.01	6.0 L Ambient Can					
P1103662-005.01	6.0 L Ambient Can					
P1103662-006.01	6.0 L Ambient Can					
P1103662-007.01	6.0 L Ambient Can					
P1103662-008.01	6.0 L Ambient Can					

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

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

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Sample Acceptance Check Form

Client: ARCADIS U.S., Inc. Work order: P1103662

Project: Jones Chemical Torrance / CM010270

Sample(s) received on: 9/23/11 Date opened: 9/23/11 by: MZAMORA

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1103662-009.01	6.0 L Ambient Can					

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

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-1** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-001

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00812

Initial Pressure (psig): -3.37 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.16	**0.40**	0.033	
74-87-3	Chloromethane	**0.22**	0.16	**0.11**	0.078	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.063	
74-83-9	Bromomethane	ND	0.16	ND	0.041	
75-00-3	Chloroethane	ND	0.16	ND	0.061	
75-69-4	Trichlorofluoromethane	**1.0**	0.16	**0.18**	0.029	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	**0.39**	0.16	**0.11**	0.046	
76-13-1	Trichlorotrifluoroethane	**0.46**	0.16	**0.060**	0.021	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.045	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.041	
67-66-3	Chloroform	**0.53**	0.16	**0.11**	0.033	
107-06-2	1,2-Dichloroethane	ND	0.16	ND	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.030	
71-43-2	Benzene	**0.39**	0.16	**0.12**	0.050	
56-23-5	Carbon Tetrachloride	**0.41**	0.16	**0.065**	0.026	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.035	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-1** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-001

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00812

Initial Pressure (psig): -3.370 Final Pressure (psig): 3.500

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	**0.17**	0.16	**0.031**	0.030	
123-91-1	1,4-Dioxane	ND	0.16	ND	0.045	
10061-01-5	cis-1,3-Dichloropropene	ND	0.16	ND	0.035	
10061-02-6	trans-1,3-Dichloropropene	ND	0.16	ND	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.030	
108-88-3	Toluene	**1.7**	0.16	**0.44**	0.043	
106-93-4	1,2-Dibromoethane	ND	0.016	ND	0.0021	
127-18-4	Tetrachloroethene	**0.68**	0.16	**0.10**	0.024	
108-90-7	Chlorobenzene	ND	0.16	ND	0.035	
100-41-4	Ethylbenzene	**0.23**	0.16	**0.052**	0.037	
179601-23-1	m,p-Xylenes	**0.59**	0.16	**0.14**	0.037	
95-47-6	o-Xylene	**0.23**	0.16	**0.053**	0.037	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.16	ND	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.027	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	ND	0.022	
87-68-3	Hexachlorobutadiene	ND	0.16	ND	0.015	

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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-2** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-002

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01555

Initial Pressure (psig): -3.56 Final Pressure (psig): 3.55

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.16	**0.39**	0.033	
74-87-3	Chloromethane	**0.24**	0.16	**0.12**	0.079	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.064	
74-83-9	Bromomethane	ND	0.16	ND	0.042	
75-00-3	Chloroethane	ND	0.16	ND	0.062	
75-69-4	Trichlorofluoromethane	**1.1**	0.16	**0.19**	0.029	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	**0.38**	0.16	**0.11**	0.047	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.16	**0.059**	0.021	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.046	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.041	
67-66-3	Chloroform	**0.62**	0.16	**0.13**	0.034	
107-06-2	1,2-Dichloroethane	ND	0.16	ND	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.030	
71-43-2	Benzene	**0.45**	0.16	**0.14**	0.051	
56-23-5	Carbon Tetrachloride	**0.41**	0.16	**0.066**	0.026	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.035	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-2** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-002

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01555

Initial Pressure (psig): -3.560 Final Pressure (psig): 3.550

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	**0.22**	0.16	**0.041**	0.031	
123-91-1	1,4-Dioxane	ND	0.16	ND	0.046	
10061-01-5	cis-1,3-Dichloropropene	ND	0.16	ND	0.036	
10061-02-6	trans-1,3-Dichloropropene	ND	0.16	ND	0.036	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.030	
108-88-3	Toluene	**2.2**	0.16	**0.59**	0.044	
106-93-4	1,2-Dibromoethane	ND	0.016	ND	0.0021	
127-18-4	Tetrachloroethene	**0.89**	0.16	**0.13**	0.024	
108-90-7	Chlorobenzene	ND	0.16	ND	0.036	
100-41-4	Ethylbenzene	**0.25**	0.16	**0.058**	0.038	
179601-23-1	m,p-Xylenes	**0.66**	0.16	**0.15**	0.038	
95-47-6	o-Xylene	**0.25**	0.16	**0.058**	0.038	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.16	ND	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.027	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	ND	0.022	
87-68-3	Hexachlorobutadiene	ND	0.16	ND	0.015	

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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-3** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-003

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01373

Initial Pressure (psig): -1.63 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.14	**0.39**	0.028	
74-87-3	Chloromethane	**0.25**	0.14	**0.12**	0.067	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
74-83-9	Bromomethane	ND	0.14	ND	0.036	
75-00-3	Chloroethane	ND	0.14	ND	0.053	
75-69-4	Trichlorofluoromethane	**1.0**	0.14	**0.18**	0.025	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	**0.41**	0.14	**0.12**	0.040	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.14	**0.059**	0.018	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	ND	0.039	
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
67-66-3	Chloroform	**0.50**	0.14	**0.10**	0.028	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	**0.44**	0.14	**0.14**	0.044	
56-23-5	Carbon Tetrachloride	**0.41**	0.14	**0.065**	0.022	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-3** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-003

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01373

Initial Pressure (psig): -1.630 Final Pressure (psig): 3.500

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	**0.15**	0.14	**0.027**	0.026	
123-91-1	1,4-Dioxane	ND	0.14	ND	0.039	
10061-01-5	cis-1,3-Dichloropropene	ND	0.14	ND	0.031	
10061-02-6	trans-1,3-Dichloropropene	ND	0.14	ND	0.031	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	**2.4**	0.14	**0.63**	0.037	
106-93-4	1,2-Dibromoethane	ND	0.014	ND	0.0018	
127-18-4	Tetrachloroethene	**0.92**	0.14	**0.14**	0.021	
108-90-7	Chlorobenzene	ND	0.14	ND	0.030	
100-41-4	Ethylbenzene	**0.27**	0.14	**0.063**	0.032	
179601-23-1	m,p-Xylenes	**0.69**	0.14	**0.16**	0.032	
95-47-6	o-Xylene	**0.27**	0.14	**0.061**	0.032	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
541-73-1	1,3-Dichlorobenzene	ND	0.14	ND	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.14	ND	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.14	ND	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	0.14	ND	0.019	
87-68-3	Hexachlorobutadiene	ND	0.14	ND	0.013	

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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-4** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-004

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01206

Initial Pressure (psig): -0.66 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.30

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.13	**0.40**	0.026	
74-87-3	Chloromethane	**0.27**	0.13	**0.13**	0.063	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.051	
74-83-9	Bromomethane	ND	0.13	ND	0.033	
75-00-3	Chloroethane	ND	0.13	ND	0.049	
75-69-4	Trichlorofluoromethane	**0.99**	0.13	**0.18**	0.023	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.033	
75-09-2	Methylene Chloride	**0.38**	0.13	**0.11**	0.037	
76-13-1	Trichlorotrifluoroethane	**0.46**	0.13	**0.059**	0.017	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.033	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.036	
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.033	
67-66-3	Chloroform	ND	0.13	ND	0.027	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.024	
71-43-2	Benzene	**0.35**	0.13	**0.11**	0.041	
56-23-5	Carbon Tetrachloride	**0.40**	0.13	**0.064**	0.021	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.028	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-4** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-004

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01206

Initial Pressure (psig): -0.660 Final Pressure (psig): 3.500

Canister Dilution Factor: 1.30

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.024	
123-91-1	1,4-Dioxane	ND	0.13	ND	0.036	
10061-01-5	cis-1,3-Dichloropropene	ND	0.13	ND	0.029	
10061-02-6	trans-1,3-Dichloropropene	ND	0.13	ND	0.029	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.024	
108-88-3	Toluene	**1.1**	0.13	**0.30**	0.035	
106-93-4	1,2-Dibromoethane	ND	0.013	ND	0.0017	
127-18-4	Tetrachloroethene	**0.36**	0.13	**0.052**	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.028	
100-41-4	Ethylbenzene	**0.16**	0.13	**0.037**	0.030	
179601-23-1	m,p-Xylenes	**0.40**	0.13	**0.092**	0.030	
95-47-6	o-Xylene	**0.15**	0.13	**0.035**	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.13	ND	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	0.13	ND	0.018	
87-68-3	Hexachlorobutadiene	ND	0.13	ND	0.012	

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

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-5** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-005

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00640

Initial Pressure (psig): -1.93 Final Pressure (psig): 3.83

Canister Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.15	**0.40**	0.029	
74-87-3	Chloromethane	**0.25**	0.15	**0.12**	0.070	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
74-83-9	Bromomethane	ND	0.15	ND	0.037	
75-00-3	Chloroethane	ND	0.15	ND	0.055	
75-69-4	Trichlorofluoromethane	**1.1**	0.15	**0.20**	0.026	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	**0.40**	0.15	**0.11**	0.042	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.15	**0.058**	0.019	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.040	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
67-66-3	Chloroform	**0.40**	0.15	**0.082**	0.030	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	**0.40**	0.15	**0.13**	0.045	
56-23-5	Carbon Tetrachloride	**0.47**	0.15	**0.074**	0.023	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.031	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-5** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-005

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00640

Initial Pressure (psig): -1.930 Final Pressure (psig): 3.830

Canister Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.15	ND	0.040	
10061-01-5	cis-1,3-Dichloropropene	ND	0.15	ND	0.032	
10061-02-6	trans-1,3-Dichloropropene	ND	0.15	ND	0.032	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	**1.4**	0.15	**0.37**	0.038	
106-93-4	1,2-Dibromoethane	ND	0.015	ND	0.0019	
127-18-4	Tetrachloroethene	**0.27**	0.15	**0.040**	0.021	
108-90-7	Chlorobenzene	ND	0.15	ND	0.031	
100-41-4	Ethylbenzene	**0.19**	0.15	**0.045**	0.033	
179601-23-1	m,p-Xylenes	**0.53**	0.15	**0.12**	0.033	
95-47-6	o-Xylene	**0.20**	0.15	**0.046**	0.033	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	ND	0.020	
87-68-3	Hexachlorobutadiene	ND	0.15	ND	0.014	

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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-6** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-006

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/7/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01601

Initial Pressure (psig): -2.78 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.15	**0.39**	0.031	
74-87-3	Chloromethane	**0.17**	0.15	**0.084**	0.075	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.060	
74-83-9	Bromomethane	ND	0.15	ND	0.040	
75-00-3	Chloroethane	ND	0.15	ND	0.058	
75-69-4	Trichlorofluoromethane	**1.0**	0.15	**0.18**	0.027	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.039	
75-09-2	Methylene Chloride	**0.40**	0.15	**0.11**	0.044	
76-13-1	Trichlorotrifluoroethane	**0.43**	0.15	**0.056**	0.020	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.043	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.039	
67-66-3	Chloroform	**0.30**	0.15	**0.061**	0.032	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	Benzene	**0.38**	0.15	**0.12**	0.048	
56-23-5	Carbon Tetrachloride	**0.48**	0.15	**0.076**	0.024	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.033	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-6** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-006

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/7/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01601

Initial Pressure (psig): -2.780 Final Pressure (psig): 3.670

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	0.15	ND	0.023	
79-01-6	Trichloroethene	ND	0.15	ND	0.029	
123-91-1	1,4-Dioxane	ND	0.15	ND	0.043	
10061-01-5	cis-1,3-Dichloropropene	ND	0.15	ND	0.034	
10061-02-6	trans-1,3-Dichloropropene	ND	0.15	ND	0.034	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	**1.4**	0.15	**0.37**	0.041	
106-93-4	1,2-Dibromoethane	ND	0.015	ND	0.0020	
127-18-4	Tetrachloroethene	**0.26**	0.15	**0.039**	0.023	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	**0.17**	0.15	**0.040**	0.035	
179601-23-1	m,p-Xylenes	**0.46**	0.15	**0.11**	0.035	
95-47-6	o-Xylene	**0.18**	0.15	**0.041**	0.035	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.026	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	ND	0.021	
87-68-3	Hexachlorobutadiene	ND	0.15	ND	0.014	

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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUG-IA-AMB-1** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-007

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00468
Initial Pressure (psig): -2.56 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.15	**0.40**	0.030	
74-87-3	Chloromethane	**0.27**	0.15	**0.13**	0.073	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.059	
74-83-9	Bromomethane	ND	0.15	ND	0.039	
75-00-3	Chloroethane	ND	0.15	ND	0.057	
75-69-4	Trichlorofluoromethane	**0.99**	0.15	**0.18**	0.027	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	**0.36**	0.15	**0.10**	0.043	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.15	**0.059**	0.020	
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	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
67-66-3	Chloroform	ND	0.15	ND	0.031	
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	**0.39**	0.15	**0.12**	0.047	
56-23-5	Carbon Tetrachloride	**0.38**	0.15	**0.060**	0.024	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUG-IA-AMB-1** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-007

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00468

Initial Pressure (psig): -2.560 Final Pressure (psig): 3.500

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
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	0.15	ND	0.042	
10061-01-5	cis-1,3-Dichloropropene	ND	0.15	ND	0.033	
10061-02-6	trans-1,3-Dichloropropene	ND	0.15	ND	0.033	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	**1.2**	0.15	**0.31**	0.040	
106-93-4	1,2-Dibromoethane	ND	0.015	ND	0.0020	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	**0.16**	0.15	**0.038**	0.035	
179601-23-1	m,p-Xylenes	**0.42**	0.15	**0.097**	0.035	
95-47-6	o-Xylene	**0.16**	0.15	**0.037**	0.035	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	ND	0.020	
87-68-3	Hexachlorobutadiene	ND	0.15	ND	0.014	

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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUG-IA-AMB-2** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-008

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00603

Initial Pressure (psig): -3.15 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.16	**0.41**	0.032	
74-87-3	Chloromethane	**0.26**	0.16	**0.13**	0.077	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.062	
74-83-9	Bromomethane	ND	0.16	ND	0.041	
75-00-3	Chloroethane	ND	0.16	ND	0.060	
75-69-4	Trichlorofluoromethane	**1.0**	0.16	**0.18**	0.028	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.040	
75-09-2	Methylene Chloride	**0.39**	0.16	**0.11**	0.045	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.16	**0.059**	0.021	
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	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.040	
67-66-3	Chloroform	**0.17**	0.16	**0.035**	0.032	
107-06-2	1,2-Dichloroethane	ND	0.16	ND	0.039	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.029	
71-43-2	Benzene	**0.37**	0.16	**0.12**	0.049	
56-23-5	Carbon Tetrachloride	**0.42**	0.16	**0.067**	0.025	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.034	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUG-IA-AMB-2** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-008

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00603

Initial Pressure (psig): -3.150 Final Pressure (psig): 3.500

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	ND	0.16	ND	0.029	
123-91-1	1,4-Dioxane	ND	0.16	ND	0.044	
10061-01-5	cis-1,3-Dichloropropene	ND	0.16	ND	0.035	
10061-02-6	trans-1,3-Dichloropropene	ND	0.16	ND	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.029	
108-88-3	Toluene	**1.1**	0.16	**0.28**	0.042	
106-93-4	1,2-Dibromoethane	ND	0.016	ND	0.0021	
127-18-4	Tetrachloroethene	ND	0.16	ND	0.023	
108-90-7	Chlorobenzene	ND	0.16	ND	0.034	
100-41-4	Ethylbenzene	**0.17**	0.16	**0.038**	0.036	
179601-23-1	m,p-Xylenes	**0.44**	0.16	**0.10**	0.036	
95-47-6	o-Xylene	**0.17**	0.16	**0.039**	0.036	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.16	ND	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.026	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	ND	0.021	
87-68-3	Hexachlorobutadiene	ND	0.16	ND	0.015	

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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-DUP** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-009

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00710

Initial Pressure (psig): -1.27 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.14	**0.40**	0.028	
74-87-3	Chloromethane	**0.26**	0.14	**0.12**	0.066	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
74-83-9	Bromomethane	ND	0.14	ND	0.035	
75-00-3	Chloroethane	ND	0.14	ND	0.052	
75-69-4	Trichlorofluoromethane	**1.0**	0.14	**0.18**	0.024	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	**0.37**	0.14	**0.11**	0.039	
76-13-1	Trichlorotrifluoroethane	**0.44**	0.14	**0.057**	0.018	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	ND	0.038	
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
67-66-3	Chloroform	**0.27**	0.14	**0.055**	0.028	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	**0.37**	0.14	**0.12**	0.043	
56-23-5	Carbon Tetrachloride	**0.46**	0.14	**0.073**	0.022	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.029	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-DUP** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-009

Test Code: EPA TO-15 SIM Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: 9/23/11
Analyst: Karen Ryan Date Analyzed: 10/6/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00710

Initial Pressure (psig): -1.270 Final Pressure (psig): 3.500

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	0.14	ND	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.14	ND	0.038	
10061-01-5	cis-1,3-Dichloropropene	ND	0.14	ND	0.030	
10061-02-6	trans-1,3-Dichloropropene	ND	0.14	ND	0.030	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	**1.3**	0.14	**0.36**	0.036	
106-93-4	1,2-Dibromoethane	ND	0.014	ND	0.0018	
127-18-4	Tetrachloroethene	**0.25**	0.14	**0.037**	0.020	
108-90-7	Chlorobenzene	ND	0.14	ND	0.030	
100-41-4	Ethylbenzene	**0.17**	0.14	**0.039**	0.031	
179601-23-1	m,p-Xylenes	**0.45**	0.14	**0.10**	0.031	
95-47-6	o-Xylene	**0.17**	0.14	**0.039**	0.031	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
541-73-1	1,3-Dichlorobenzene	ND	0.14	ND	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.14	ND	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.14	ND	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	0.14	ND	0.018	
87-68-3	Hexachlorobutadiene	ND	0.14	ND	0.013	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **Method Blank** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P111006-MB

Test Code: EPA TO-15 SIM Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: NA
Analyst: Karen Ryan Date Analyzed: 10/6/11
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
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.10	ND	0.020	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.10	ND	0.029	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
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	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
67-66-3	Chloroform	ND	0.10	ND	0.020	
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	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	

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.

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **Method Blank** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P111006-MB

Test Code: EPA TO-15 SIM Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: NA
Analyst: Karen Ryan Date Analyzed: 10/6/11
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
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	0.10	ND	0.028	
10061-01-5	cis-1,3-Dichloropropene	ND	0.10	ND	0.022	
10061-02-6	trans-1,3-Dichloropropene	ND	0.10	ND	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.10	ND	0.027	
106-93-4	1,2-Dibromoethane	ND	0.010	ND	0.0013	
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	0.10	ND	0.023	
179601-23-1	m,p-Xylenes	ND	0.10	ND	0.023	
95-47-6	o-Xylene	ND	0.10	ND	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
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	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	ND	0.013	
87-68-3	Hexachlorobutadiene	ND	0.10	ND	0.0094	

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

SURROGATE SPIKE RECOVERY RESULTS

Client: **ARCADIS U.S., Inc.**
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Project ID: P1103662

Test Code: EPA TO-15 SIM
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date(s) Collected: 9/23/11
Analyst: Karen Ryan Date(s) Received: 9/23/11
Sampling Media: 6.0 L Summa Canister(s) Date(s) Analyzed: 10/6 - 10/7/11
Test Notes:

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4 % Recovered	Toluene-d8 % Recovered	Bromofluorobenzene % Recovered	Acceptance Limits	Data Qualifier
Method Blank	P111006-MB	**97**	**101**	**93**	70-130	
Lab Control Sample	P111006-LCS	**100**	**98**	**100**	70-130	
AUS-IA-1	P1103662-001	**99**	**99**	**97**	70-130	
AUS-IA-2	P1103662-002	**95**	**103**	**96**	70-130	
AUS-IA-3	P1103662-003	**95**	**103**	**98**	70-130	
AUS-IA-4	P1103662-004	**98**	**100**	**99**	70-130	
AUS-IA-5	P1103662-005	**96**	**103**	**100**	70-130	
AUS-IA-6	P1103662-006	**96**	**105**	**96**	70-130	
AUG-IA-AMB-1	P1103662-007	**98**	**102**	**97**	70-130	
AUG-IA-AMB-2	P1103662-008	**98**	**101**	**99**	70-130	
AUS-IA-DUP	P1103662-009	**96**	**102**	**97**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P111006-LCS

Test Code: EPA TO-15 SIM Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: NA
Analyst: Karen Ryan Date Analyzed: 10/06/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	CAS Acceptance Limits	**Data Qualifier**
75-71-8	Dichlorodifluoromethane (CFC 12)	3.92	**3.38**	**86**	58-131	
74-87-3	Chloromethane	3.80	**3.29**	**87**	55-129	
75-01-4	Vinyl Chloride	3.88	**3.05**	**79**	56-127	
74-83-9	Bromomethane	3.88	**3.70**	**95**	59-139	
75-00-3	Chloroethane	3.92	**3.31**	**84**	51-130	
75-69-4	Trichlorofluoromethane	4.04	**3.08**	**76**	58-143	
75-35-4	1,1-Dichloroethene	4.24	**3.53**	**83**	59-131	
75-09-2	Methylene Chloride	4.12	**3.09**	**75**	50-134	
76-13-1	Trichlorotrifluoroethane	4.12	**3.38**	**82**	61-130	
156-60-5	trans-1,2-Dichloroethene	3.92	**3.05**	**78**	60-128	
75-34-3	1,1-Dichloroethane	4.00	**3.54**	**89**	58-133	
1634-04-4	Methyl tert-Butyl Ether	3.96	**2.96**	**75**	61-122	
156-59-2	cis-1,2-Dichloroethene	4.12	**3.36**	**82**	62-130	
67-66-3	Chloroform	4.28	**3.22**	**75**	53-142	
107-06-2	1,2-Dichloroethane	4.00	**3.32**	**83**	51-140	
71-55-6	1,1,1-Trichloroethane	3.96	**3.01**	**76**	57-132	
71-43-2	Benzene	3.96	**3.18**	**80**	56-125	
56-23-5	Carbon Tetrachloride	4.04	**3.01**	**75**	57-132	
78-87-5	1,2-Dichloropropane	3.96	**3.48**	**88**	51-134	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P111006-LCS

Test Code: EPA TO-15 SIM Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7 Date Received: NA
Analyst: Karen Ryan Date Analyzed: 10/06/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	CAS Acceptance Limits	**Data Qualifier**
75-27-4	Bromodichloromethane	3.96	**3.15**	**80**	46-144	
79-01-6	Trichloroethene	3.88	**3.21**	**83**	51-127	
123-91-1	1,4-Dioxane	4.00	**3.01**	**75**	48-123	
10061-01-5	cis-1,3-Dichloropropene	3.76	**2.87**	**76**	58-125	
10061-02-6	trans-1,3-Dichloropropene	4.20	**3.00**	**71**	59-131	
79-00-5	1,1,2-Trichloroethane	3.92	**3.29**	**84**	49-137	
108-88-3	Toluene	4.04	**3.22**	**80**	56-130	
106-93-4	1,2-Dibromoethane	4.00	**3.11**	**78**	55-133	
127-18-4	Tetrachloroethene	3.68	**2.96**	**80**	58-134	
108-90-7	Chlorobenzene	4.04	**3.38**	**84**	60-128	
100-41-4	Ethylbenzene	3.96	**3.08**	**78**	56-126	
179601-23-1	m,p-Xylenes	7.84	**6.03**	**77**	55-129	
95-47-6	o-Xylene	3.88	**3.05**	**79**	57-132	
79-34-5	1,1,2,2-Tetrachloroethane	3.84	**3.17**	**83**	53-148	
541-73-1	1,3-Dichlorobenzene	4.00	**3.20**	**80**	51-138	
106-46-7	1,4-Dichlorobenzene	4.12	**3.27**	**79**	52-141	
95-50-1	1,2-Dichlorobenzene	3.96	**3.15**	**80**	51-144	
120-82-1	1,2,4-Trichlorobenzene	3.92	**2.73**	**70**	40-148	
87-68-3	Hexachlorobutadiene	4.04	**3.08**	**76**	47-152	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-1**
Client Project ID: **Jones Chemical Torrance / CM010270**

CAS Project ID: P1103662
CAS Sample ID: P1103662-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00812

Date Collected: 9/23/11
Date Received: 9/23/11
Date Analyzed: 10/6/11
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.37 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.81	ND	0.12	
106-99-0	1,3-Butadiene	ND	0.32	ND	0.15	
64-17-5	Ethanol	**19**	8.1	**9.9**	4.3	
67-64-1	Acetone	**18**	8.1	**7.4**	3.4	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.4**	1.6	**0.98**	0.66	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.051	
75-15-0	Carbon Disulfide	ND	8.1	ND	2.6	
108-05-4	Vinyl Acetate	ND	8.1	ND	2.3	
78-93-3	2-Butanone (MEK)	ND	8.1	ND	2.7	
110-54-3	n-Hexane	ND	0.81	ND	0.23	
109-99-9	Tetrahydrofuran (THF)	ND	0.81	ND	0.27	
110-82-7	Cyclohexane	ND	1.6	ND	0.47	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	ND	0.81	ND	0.17	
142-82-5	n-Heptane	ND	0.81	ND	0.20	
108-10-1	4-Methyl-2-pentanone	ND	0.81	ND	0.20	
591-78-6	2-Hexanone	ND	0.81	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
75-25-2	Bromoform	ND	0.81	ND	0.078	
100-42-5	Styrene	ND	0.81	ND	0.19	
98-82-8	Cumene	ND	0.81	ND	0.16	
103-65-1	n-Propylbenzene	ND	0.81	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.81	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.81	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	ND	0.81	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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-2**
Client Project ID: **Jones Chemical Torrance / CM010270**

CAS Project ID: P1103662
CAS Sample ID: P1103662-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01555

Date Collected: 9/23/11
Date Received: 9/23/11
Date Analyzed: 10/6/11
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.56 Final Pressure (psig): 3.55

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.82	ND	0.12	
106-99-0	1,3-Butadiene	ND	0.33	ND	0.15	
64-17-5	Ethanol	**31**	8.2	**16**	4.4	
67-64-1	Acetone	**19**	8.2	**8.0**	3.5	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.0**	1.6	**1.2**	0.67	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.052	
75-15-0	Carbon Disulfide	ND	8.2	ND	2.6	
108-05-4	Vinyl Acetate	ND	8.2	ND	2.3	
78-93-3	2-Butanone (MEK)	ND	8.2	ND	2.8	
110-54-3	n-Hexane	ND	0.82	ND	0.23	
109-99-9	Tetrahydrofuran (THF)	ND	0.82	ND	0.28	
110-82-7	Cyclohexane	ND	1.6	ND	0.48	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	ND	0.82	ND	0.18	
142-82-5	n-Heptane	ND	0.82	ND	0.20	
108-10-1	4-Methyl-2-pentanone	ND	0.82	ND	0.20	
591-78-6	2-Hexanone	ND	0.82	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
75-25-2	Bromoform	ND	0.82	ND	0.079	
100-42-5	Styrene	ND	0.82	ND	0.19	
98-82-8	Cumene	ND	0.82	ND	0.17	
103-65-1	n-Propylbenzene	ND	0.82	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.82	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.82	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	ND	0.82	ND	0.17	

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

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-3**
Client Project ID: **Jones Chemical Torrance / CM010270**

CAS Project ID: P1103662
CAS Sample ID: P1103662-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01373

Date Collected: 9/23/11
Date Received: 9/23/11
Date Analyzed: 10/6/11
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.63 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.70	ND	0.099	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
64-17-5	Ethanol	**55**	7.0	**29**	3.7	
67-64-1	Acetone	**30**	7.0	**13**	2.9	
67-63-0	2-Propanol (Isopropyl Alcohol)	**9.3**	1.4	**3.8**	0.57	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.044	
75-15-0	Carbon Disulfide	ND	7.0	ND	2.2	
108-05-4	Vinyl Acetate	ND	7.0	ND	2.0	
78-93-3	2-Butanone (MEK)	ND	7.0	ND	2.4	
110-54-3	n-Hexane	**0.82**	0.70	**0.23**	0.20	
109-99-9	Tetrahydrofuran (THF)	**1.1**	0.70	**0.38**	0.24	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	**0.73**	0.70	**0.16**	0.15	
142-82-5	n-Heptane	ND	0.70	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	0.70	ND	0.17	
591-78-6	2-Hexanone	ND	0.70	ND	0.17	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
75-25-2	Bromoform	ND	0.70	ND	0.067	
100-42-5	Styrene	ND	0.70	ND	0.16	
98-82-8	Cumene	ND	0.70	ND	0.14	
103-65-1	n-Propylbenzene	ND	0.70	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.70	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.70	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.70	ND	0.14	

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

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-4**
Client Project ID: **Jones Chemical Torrance / CM010270**

CAS Project ID: P1103662
CAS Sample ID: P1103662-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01206

Date Collected: 9/23/11
Date Received: 9/23/11
Date Analyzed: 10/6/11
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.66 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.30

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	ND	0.093	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
64-17-5	Ethanol	**9.5**	6.5	**5.0**	3.5	
67-64-1	Acetone	**12**	6.5	**5.0**	2.7	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.3	ND	0.53	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.042	
75-15-0	Carbon Disulfide	ND	6.5	ND	2.1	
108-05-4	Vinyl Acetate	ND	6.5	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	6.5	ND	2.2	
110-54-3	n-Hexane	ND	0.65	ND	0.18	
109-99-9	Tetrahydrofuran (THF)	ND	0.65	ND	0.22	
110-82-7	Cyclohexane	ND	1.3	ND	0.38	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	ND	0.65	ND	0.14	
142-82-5	n-Heptane	ND	0.65	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.65	ND	0.16	
591-78-6	2-Hexanone	ND	0.65	ND	0.16	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
75-25-2	Bromoform	ND	0.65	ND	0.063	
100-42-5	Styrene	ND	0.65	ND	0.15	
98-82-8	Cumene	ND	0.65	ND	0.13	
103-65-1	n-Propylbenzene	ND	0.65	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.65	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.65	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.65	ND	0.13	

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

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-5**
Client Project ID: **Jones Chemical Torrance / CM010270**

CAS Project ID: P1103662
CAS Sample ID: P1103662-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00640

Date Collected: 9/23/11
Date Received: 9/23/11
Date Analyzed: 10/6/11
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.93 Final Pressure (psig): 3.83

Canister Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	ND	0.10	
106-99-0	1,3-Butadiene	ND	0.29	ND	0.13	
64-17-5	Ethanol	**18**	7.3	**9.8**	3.8	
67-64-1	Acetone	**23**	7.3	**9.5**	3.1	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.2**	1.5	**0.88**	0.59	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.046	
75-15-0	Carbon Disulfide	ND	7.3	ND	2.3	
108-05-4	Vinyl Acetate	ND	7.3	ND	2.1	
78-93-3	2-Butanone (MEK)	ND	7.3	ND	2.5	
110-54-3	n-Hexane	ND	0.73	ND	0.21	
109-99-9	Tetrahydrofuran (THF)	ND	0.73	ND	0.25	
110-82-7	Cyclohexane	ND	1.5	ND	0.42	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	ND	0.73	ND	0.16	
142-82-5	n-Heptane	ND	0.73	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.73	ND	0.18	
591-78-6	2-Hexanone	**1.1**	0.73	**0.28**	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
75-25-2	Bromoform	ND	0.73	ND	0.070	
100-42-5	Styrene	ND	0.73	ND	0.17	
98-82-8	Cumene	ND	0.73	ND	0.15	
103-65-1	n-Propylbenzene	ND	0.73	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.73	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.73	ND	0.15	

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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-6**
Client Project ID: **Jones Chemical Torrance / CM010270**

CAS Project ID: P1103662
CAS Sample ID: P1103662-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01601

Date Collected: 9/23/11
Date Received: 9/23/11
Date Analyzed: 10/6/11
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.78 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.77	ND	0.11	
106-99-0	1,3-Butadiene	ND	0.31	ND	0.14	
64-17-5	Ethanol	**14**	7.7	**7.4**	4.1	
67-64-1	Acetone	**11**	7.7	**4.5**	3.2	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.5	ND	0.63	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.049	
75-15-0	Carbon Disulfide	ND	7.7	ND	2.5	
108-05-4	Vinyl Acetate	ND	7.7	ND	2.2	
78-93-3	2-Butanone (MEK)	ND	7.7	ND	2.6	
110-54-3	n-Hexane	ND	0.77	ND	0.22	
109-99-9	Tetrahydrofuran (THF)	ND	0.77	ND	0.26	
110-82-7	Cyclohexane	ND	1.5	ND	0.45	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	ND	0.77	ND	0.16	
142-82-5	n-Heptane	ND	0.77	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	0.77	ND	0.19	
591-78-6	2-Hexanone	ND	0.77	ND	0.19	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
75-25-2	Bromoform	ND	0.77	ND	0.075	
100-42-5	Styrene	ND	0.77	ND	0.18	
98-82-8	Cumene	ND	0.77	ND	0.16	
103-65-1	n-Propylbenzene	ND	0.77	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.77	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.77	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	ND	0.77	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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUG-IA-AMB-1**
Client Project ID: **Jones Chemical Torrance / CM010270**

CAS Project ID: P1103662
CAS Sample ID: P1103662-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00468

Date Collected: 9/23/11
Date Received: 9/23/11
Date Analyzed: 10/7/11
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.56 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
106-99-0	1,3-Butadiene	ND	0.30	ND	0.14	
64-17-5	Ethanol	ND	7.5	ND	4.0	
67-64-1	Acetone	**9.6**	7.5	**4.0**	3.2	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.5	ND	0.61	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
75-15-0	Carbon Disulfide	ND	7.5	ND	2.4	
108-05-4	Vinyl Acetate	ND	7.5	ND	2.1	
78-93-3	2-Butanone (MEK)	ND	7.5	ND	2.5	
110-54-3	n-Hexane	ND	0.75	ND	0.21	
109-99-9	Tetrahydrofuran (THF)	ND	0.75	ND	0.25	
110-82-7	Cyclohexane	ND	1.5	ND	0.44	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	ND	0.75	ND	0.16	
142-82-5	n-Heptane	ND	0.75	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.75	ND	0.18	
591-78-6	2-Hexanone	ND	0.75	ND	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
75-25-2	Bromoform	ND	0.75	ND	0.073	
100-42-5	Styrene	ND	0.75	ND	0.18	
98-82-8	Cumene	ND	0.75	ND	0.15	
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	

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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUG-IA-AMB-2**
Client Project ID: **Jones Chemical Torrance / CM010270**

CAS Project ID: P1103662
CAS Sample ID: P1103662-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00603

Date Collected: 9/23/11
Date Received: 9/23/11
Date Analyzed: 10/7/11
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.79	ND	0.11	
106-99-0	1,3-Butadiene	ND	0.32	ND	0.14	
64-17-5	Ethanol	ND	7.9	ND	4.2	
67-64-1	Acetone	**9.7**	7.9	**4.1**	3.3	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.6	ND	0.64	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.050	
75-15-0	Carbon Disulfide	ND	7.9	ND	2.5	
108-05-4	Vinyl Acetate	ND	7.9	ND	2.2	
78-93-3	2-Butanone (MEK)	ND	7.9	ND	2.7	
110-54-3	n-Hexane	ND	0.79	ND	0.22	
109-99-9	Tetrahydrofuran (THF)	ND	0.79	ND	0.27	
110-82-7	Cyclohexane	ND	1.6	ND	0.46	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	ND	0.79	ND	0.17	
142-82-5	n-Heptane	ND	0.79	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	0.79	ND	0.19	
591-78-6	2-Hexanone	ND	0.79	ND	0.19	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
75-25-2	Bromoform	ND	0.79	ND	0.076	
100-42-5	Styrene	ND	0.79	ND	0.19	
98-82-8	Cumene	ND	0.79	ND	0.16	
103-65-1	n-Propylbenzene	ND	0.79	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.79	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.79	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	ND	0.79	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.

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **AUS-IA-DUP** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P1103662-009

Test Code: EPA TO-15 Date Collected: 9/23/11
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 9/23/11
Analyst: Elsa Moctezuma Date Analyzed: 10/7/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00710

Initial Pressure (psig): -1.27 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
106-99-0	1,3-Butadiene	ND	0.27	ND	0.12	
64-17-5	Ethanol	**16**	6.8	**8.4**	3.6	
67-64-1	Acetone	**15**	6.8	**6.1**	2.9	
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.5**	1.4	**0.62**	0.55	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.043	
75-15-0	Carbon Disulfide	ND	6.8	ND	2.2	
108-05-4	Vinyl Acetate	ND	6.8	ND	1.9	
78-93-3	2-Butanone (MEK)	ND	6.8	ND	2.3	
110-54-3	n-Hexane	ND	0.68	ND	0.19	
109-99-9	Tetrahydrofuran (THF)	ND	0.68	ND	0.23	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	ND	0.68	ND	0.15	
142-82-5	n-Heptane	ND	0.68	ND	0.17	
108-10-1	4-Methyl-2-pentanone	**0.80**	0.68	**0.19**	0.17	
591-78-6	2-Hexanone	ND	0.68	ND	0.17	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
75-25-2	Bromoform	ND	0.68	ND	0.066	
100-42-5	Styrene	ND	0.68	ND	0.16	
98-82-8	Cumene	ND	0.68	ND	0.14	
103-65-1	n-Propylbenzene	ND	0.68	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.68	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.68	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.68	ND	0.14	

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

RESULTS OF ANALYSIS

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **Method Blank** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P111006-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Elsa Moctezuma Date Analyzed: 10/6/11
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
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
106-99-0	1,3-Butadiene	ND	0.20	ND	0.090	
64-17-5	Ethanol	ND	5.0	ND	2.7	
67-64-1	Acetone	ND	5.0	ND	2.1	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	ND	0.50	ND	0.11	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
98-82-8	Cumene	ND	0.50	ND	0.10	
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	

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.

SURROGATE SPIKE RECOVERY RESULTS

Client: **ARCADIS U.S., Inc.**
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Project ID: P1103662

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 9/23/11
Analyst: Elsa Moctezuma Date(s) Received: 9/23/11
Sampling Media: 6.0 L Summa Canister(s) Date(s) Analyzed: 10/6 - 10/7/11
Test Notes:

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P111006-MB	**98**	**100**	**102**	70-130	
Lab Control Sample	P111006-LCS	**99**	**100**	**102**	70-130	
AUS-IA-1	P1103662-001	**100**	**100**	**103**	70-130	
AUS-IA-2	P1103662-002	**99**	**99**	**101**	70-130	
AUS-IA-3	P1103662-003	**100**	**100**	**101**	70-130	
AUS-IA-4	P1103662-004	**99**	**100**	**101**	70-130	
AUS-IA-5	P1103662-005	**99**	**100**	**101**	70-130	
AUS-IA-6	P1103662-006	**100**	**100**	**102**	70-130	
AUG-IA-AMB-1	P1103662-007	**97**	**101**	**102**	70-130	
AUG-IA-AMB-2	P1103662-008	**97**	**100**	**102**	70-130	
AUS-IA-DUP	P1103662-009	**98**	**100**	**102**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ARCADIS U.S., Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1103662
Client Project ID: **Jones Chemical Torrance / CM010270** CAS Sample ID: P111006-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: NA
Analyst: Elsa Moctezuma Date Analyzed: 10/06/11
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

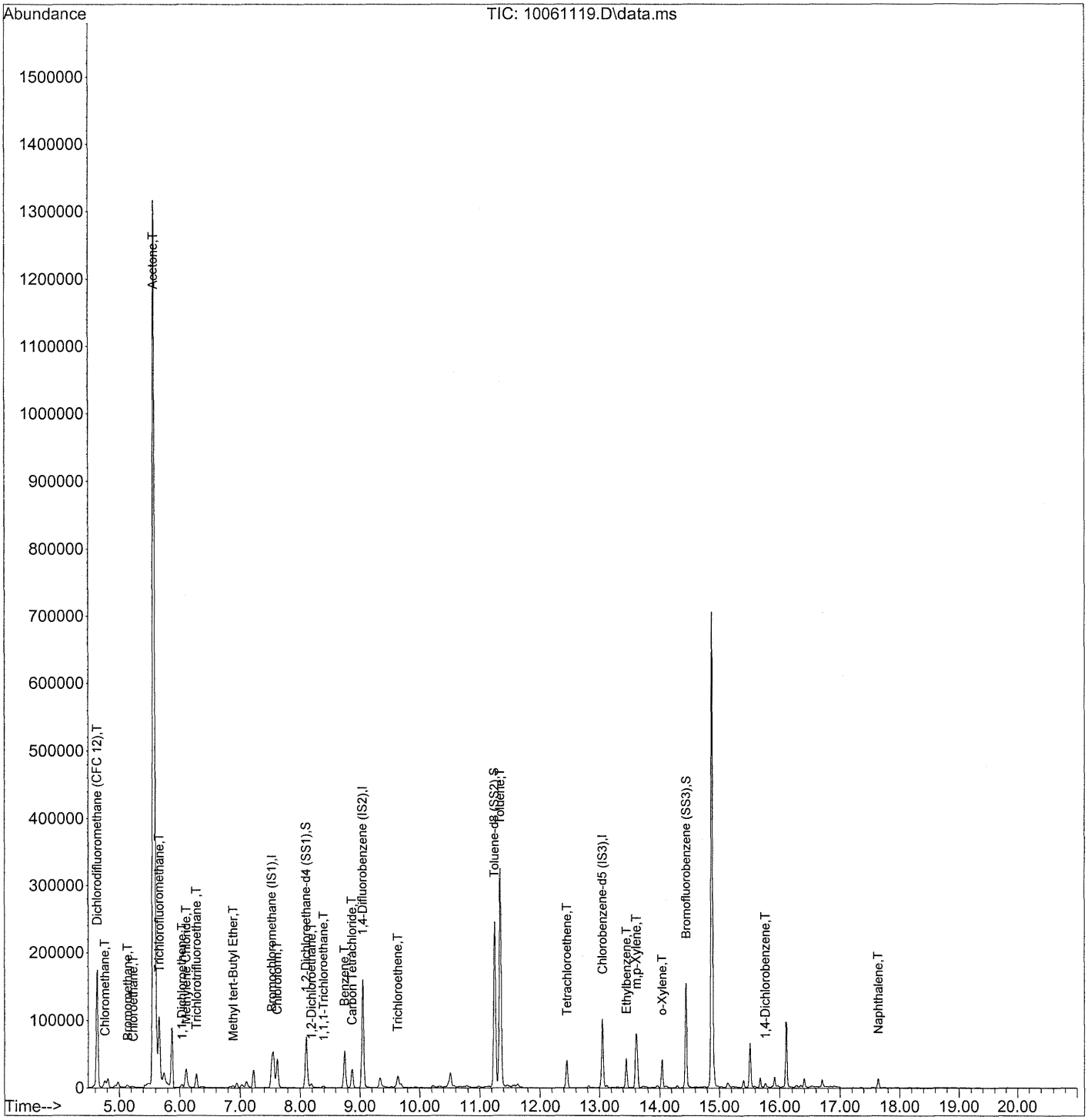
CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	CAS Acceptance Limits	Data Qualifier
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	200	**182**	**91**	64-113	
106-99-0	1,3-Butadiene	204	**206**	**101**	74-142	
64-17-5	Ethanol	928	**822**	**89**	67-127	
67-64-1	Acetone	1,010	**868**	**86**	67-106	
67-63-0	2-Propanol (Isopropyl Alcohol)	382	**335**	**88**	56-112	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	208	**207**	**100**	76-142	
75-15-0	Carbon Disulfide	208	**188**	**90**	71-112	
108-05-4	Vinyl Acetate	952	**904**	**95**	51-150	
78-93-3	2-Butanone (MEK)	206	**195**	**95**	80-130	
110-54-3	n-Hexane	198	**182**	**92**	68-109	
109-99-9	Tetrahydrofuran (THF)	202	**190**	**94**	57-130	
110-82-7	Cyclohexane	390	**370**	**95**	73-111	
540-84-1	2,2,4-Trimethylpentane (Isooctane)	196	**186**	**95**	73-113	
142-82-5	n-Heptane	196	**189**	**96**	75-114	
108-10-1	4-Methyl-2-pentanone	204	**199**	**98**	79-128	
591-78-6	2-Hexanone	222	**204**	**92**	73-120	
124-48-1	Dibromochloromethane	206	**204**	**99**	72-137	
75-25-2	Bromoform	208	**195**	**94**	79-150	
100-42-5	Styrene	200	**193**	**97**	74-127	
98-82-8	Cumene	190	**178**	**94**	68-119	
103-65-1	n-Propylbenzene	192	**184**	**96**	69-119	
622-96-8	4-Ethyltoluene	198	**184**	**93**	68-121	
108-67-8	1,3,5-Trimethylbenzene	200	**190**	**95**	67-118	
95-63-6	1,2,4-Trimethylbenzene	194	**191**	**98**	66-122	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:26:03 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

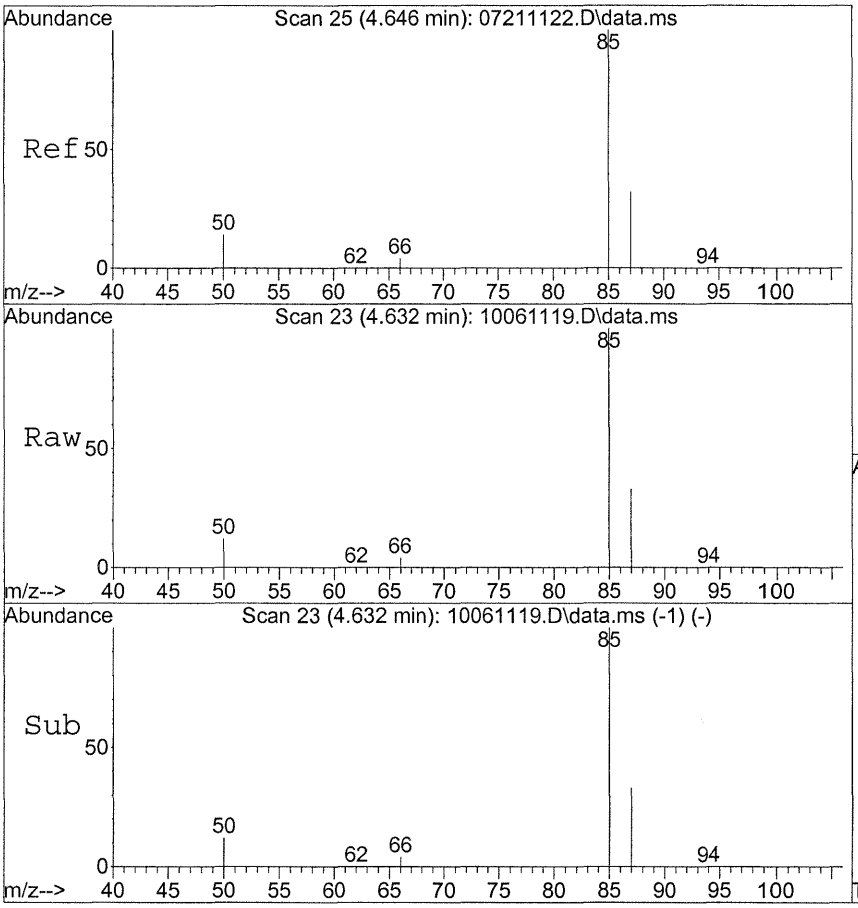
Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:26:03 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	62200	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	296466	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	143304	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.10	65	119862	985.66	pg		0.00
Spiked Amount 1000.000			Recovery = 98.57%				
30) Toluene-d8 (SS2)	11.25	98	318862	989.37	pg		0.00
Spiked Amount 1000.000			Recovery = 98.94%				
40) Bromofluorobenzene (SS3)	14.45	174	111048	973.28	pg		0.00
Spiked Amount 1000.000			Recovery = 97.33%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.63	85	222154	1216.42	pg		98
3) Chloromethane	4.76	52	6245m	138.66	pg		
5) Bromomethane	5.14	94	3552	49.22	pg		100
6) Chloroethane	5.23	64	2197m	26.15	pg		
7) Acetone	5.57	58	709533	9895.09	pg	#	86
8) Trichlorofluoromethane	5.66	101	108909	636.91	pg		98
9) 1,1-Dichloroethene	6.04	96	2775	34.07	pg	#	78
10) Methylene Chloride	6.11	84	23367	240.15	pg		93
11) Trichlorotrifluoroethane	6.28	151	22355	284.22	pg		99
14) Methyl tert-Butyl Ether	6.89	73	4498	14.91	pg		99
16) Chloroform	7.62	83	56503	326.95	pg		98
18) 1,2-Dichloroethane	8.19	62	3798	27.39	pg		98
19) 1,1,1-Trichloroethane	8.39	97	2861	18.67	pg		99
20) Benzene	8.75	78	97965	243.60	pg		100
21) Carbon Tetrachloride	8.87	117	30293	252.46	pg		99
25) Trichloroethene	9.64	130	10740	103.10	pg		97
31) Toluene	11.35	91	409637	1025.88	pg		100
33) Tetrachloroethene	12.45	166	46944	420.11	pg		100
36) Ethylbenzene	13.46	91	60270	140.25	pg		99
37) m,p-Xylene	13.62	91	127708	365.01	pg		99
38) o-Xylene	14.04	91	50936	142.71	pg		97
42) 1,4-Dichlorobenzene	15.77	146	4956	23.27	pg		99
45) Naphthalene	17.64	128	21677	41.39	pg		94

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

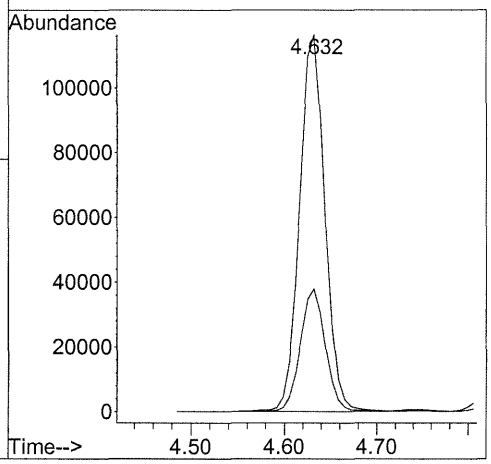
10/7/11

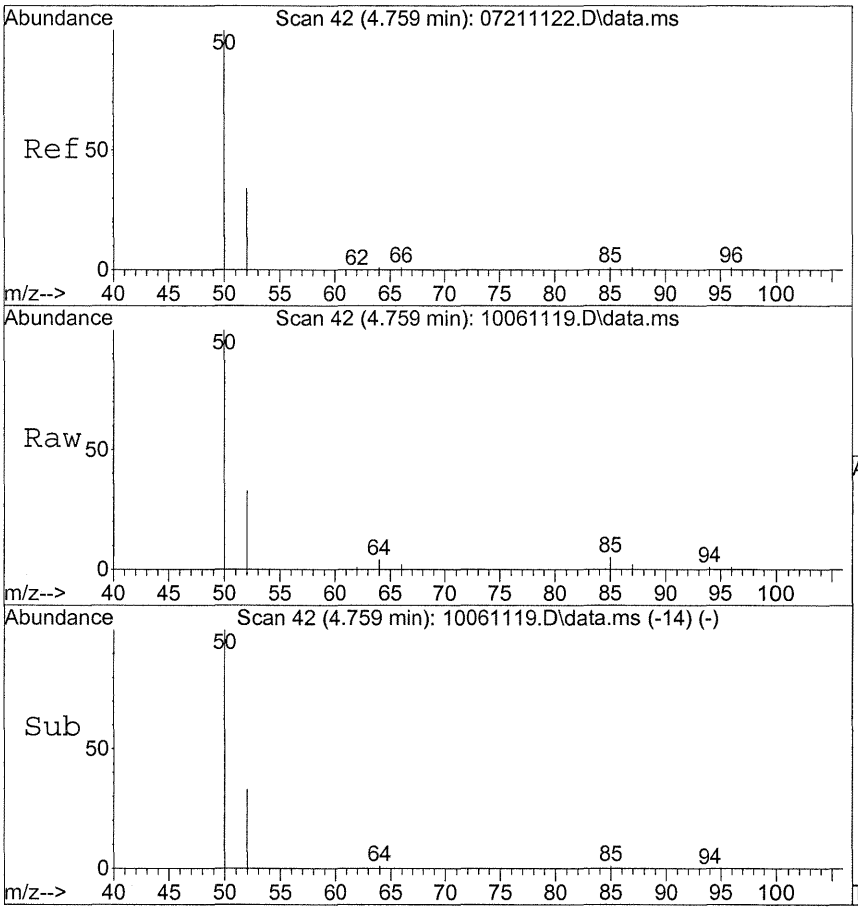


#2
Dichlorodifluoromethane (CFC
Concen: 1216.42 pg
RT: 4.63 min Scan# 23
Delta R.T. -0.014 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 85 Resp: 222154

Ion	Ratio	Lower	Upper
85	100		
87	32.4	13.3	53.3

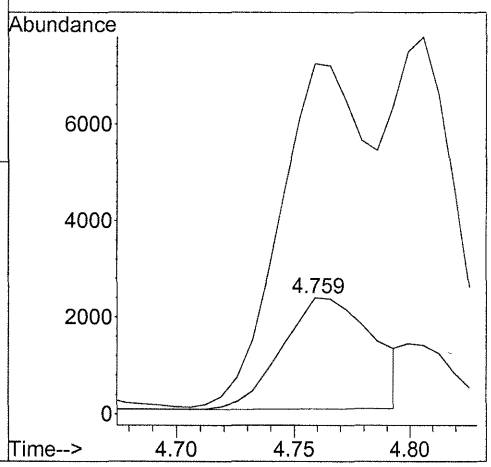


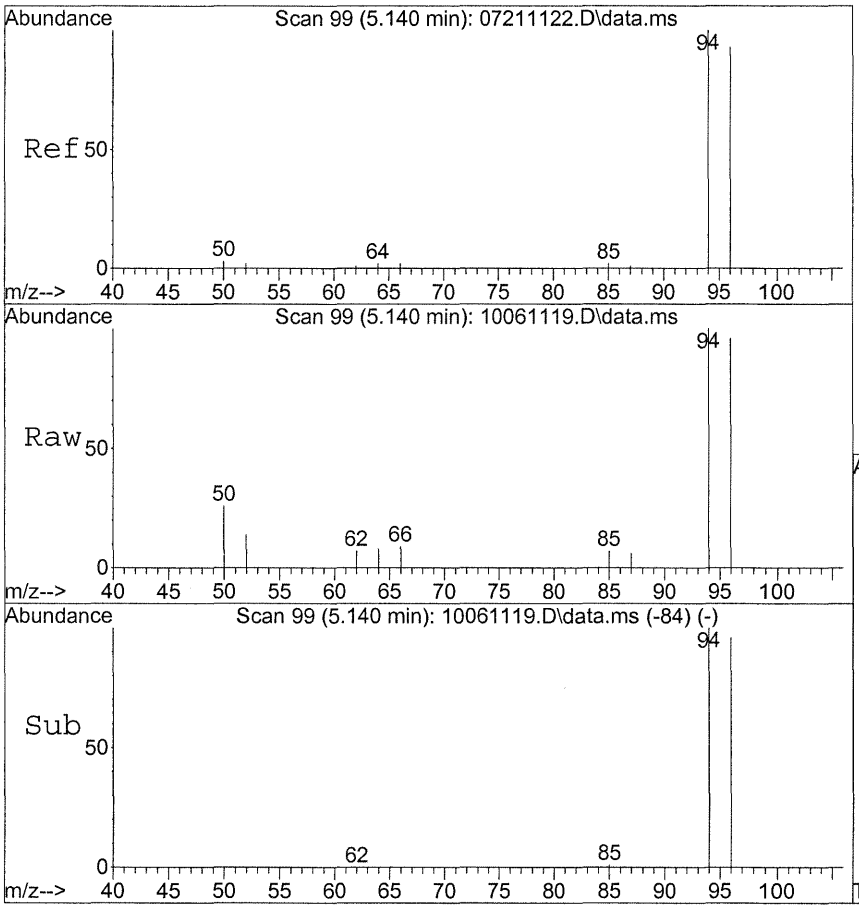


#3
Chloromethane
Concen: 138.66 pg m
RT: 4.76 min Scan# 42
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 52 Resp: 6245

Ion	Ratio	Lower	Upper
52	100		
50	300.5	285.3	325.3

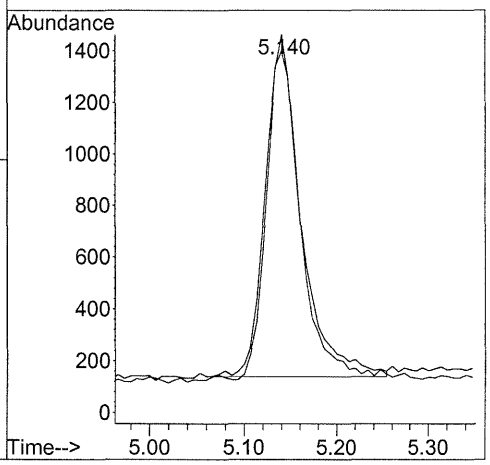


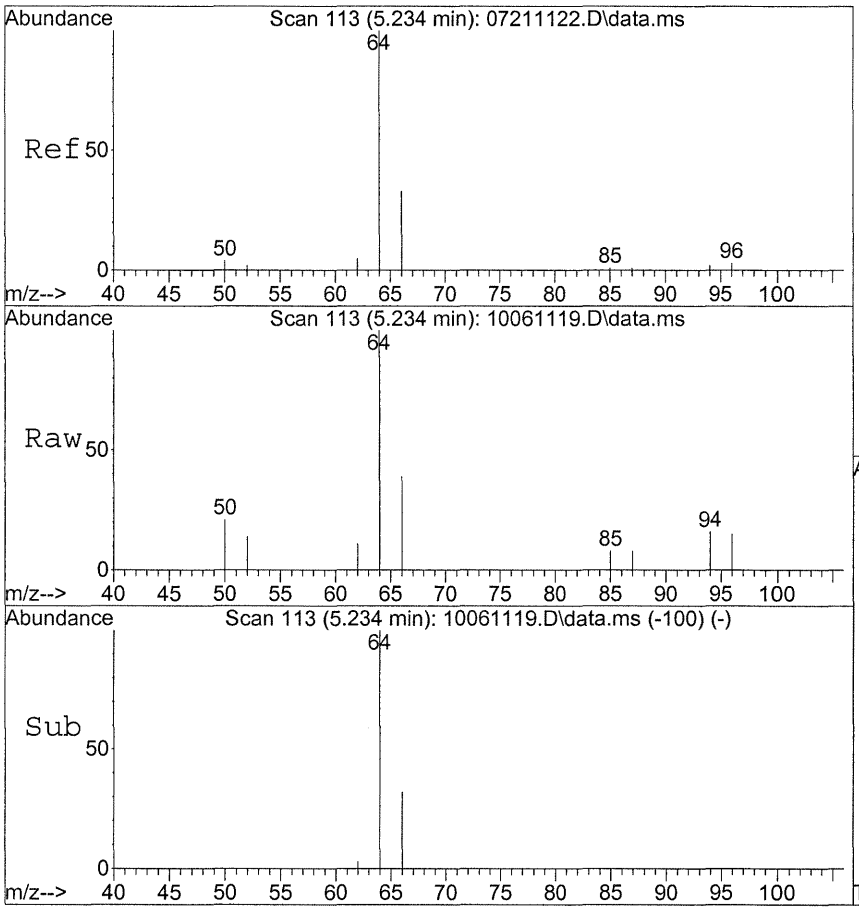


#5
Bromomethane
Concen: 49.22 pg
RT: 5.14 min Scan# 99
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 94 Resp: 3552

Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.2	111.4

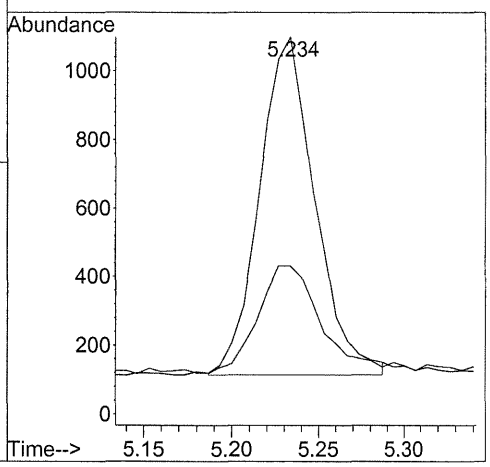


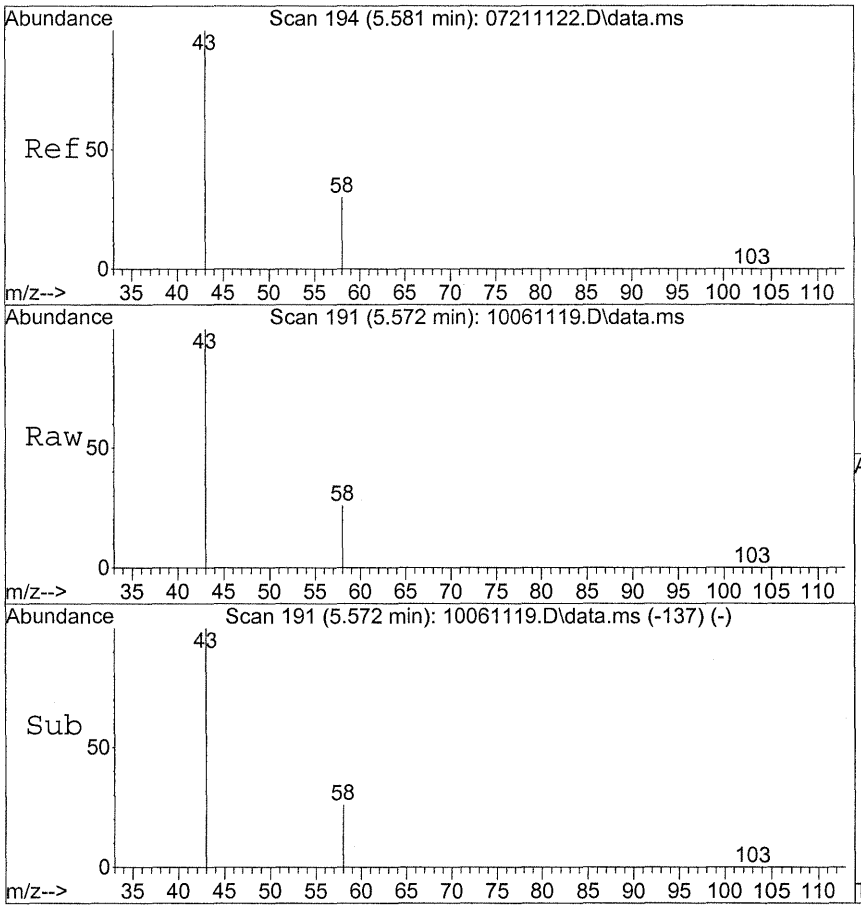


#6
Chloroethane
Concen: 26.15 pg m
RT: 5.23 min Scan# 113
Delta R.T. -0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 64 Resp: 2197

Ion	Ratio	Lower	Upper
64	100		
66	51.1	12.0	52.0

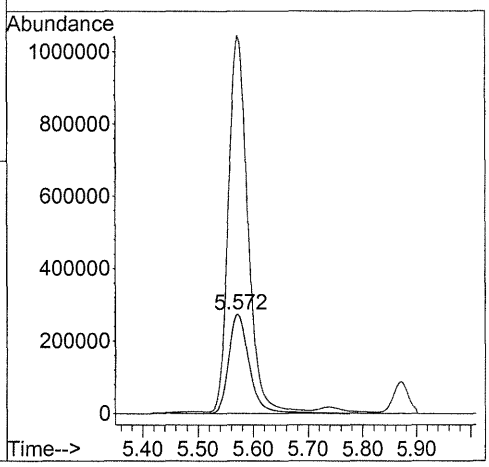


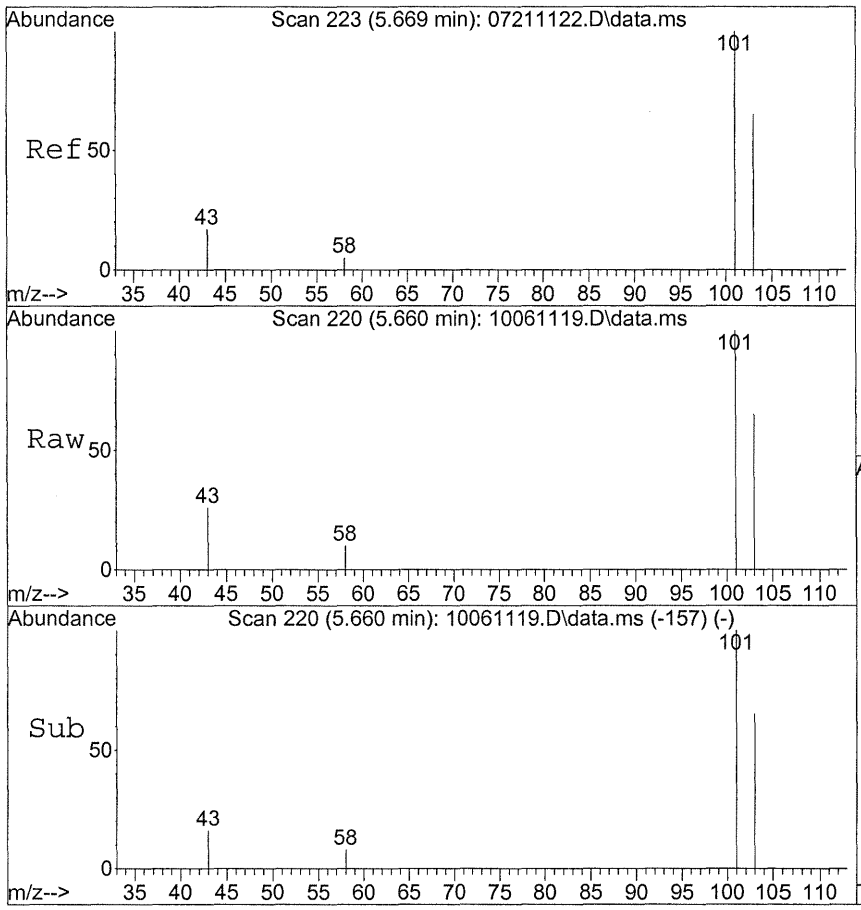


#7
Acetone
Concen: 9895.09 pg
RT: 5.57 min Scan# 191
Delta R.T. -0.009 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 58 Resp: 709533

Ion	Ratio	Lower	Upper
58	100		
43	356.2	307.2	347.2#

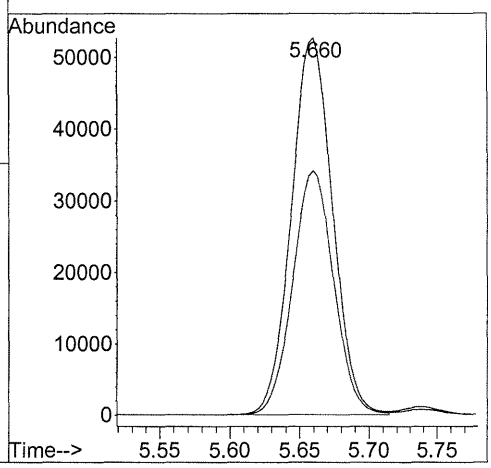


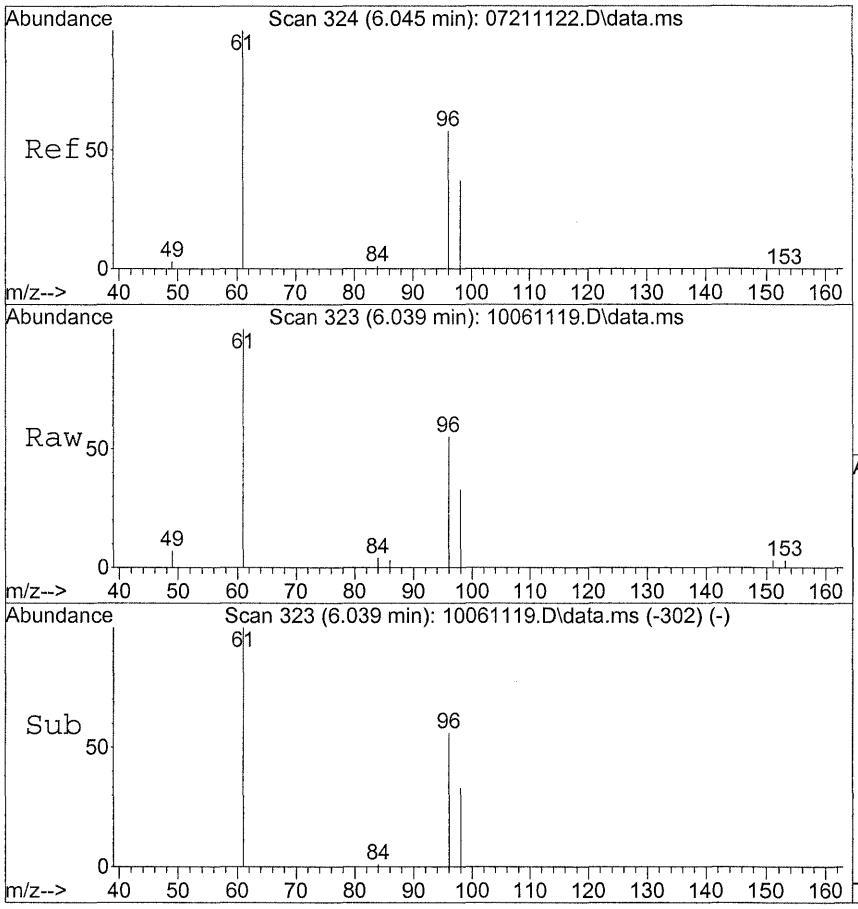


#8
Trichlorofluoromethane
Concen: 636.91 pg
RT: 5.66 min Scan# 220
Delta R.T. -0.009 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion:101 Resp: 108909

Ion	Ratio	Lower	Upper
101	100		
103	64.6	50.6	75.8

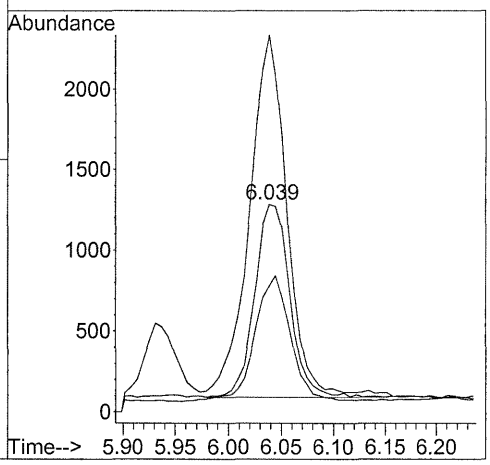


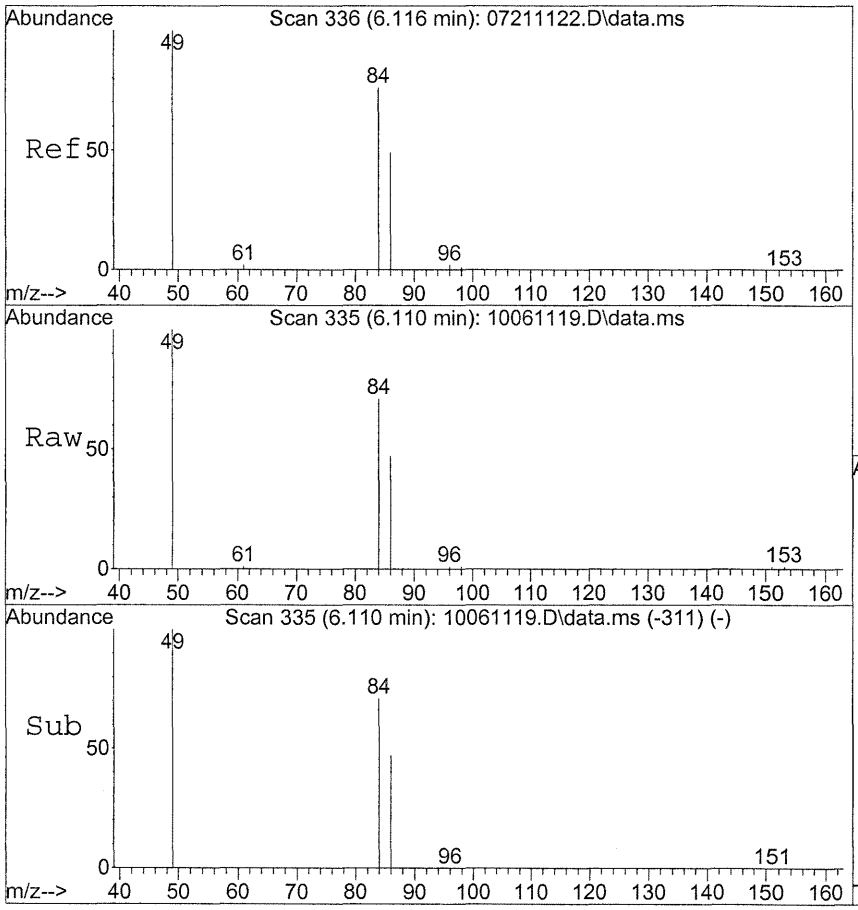


#9
1,1-Dichloroethene
Concen: 34.07 pg
RT: 6.04 min Scan# 323
Delta R.T. -0.006 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 96 Resp: 2775

Ion	Ratio	Lower	Upper
96	100		
98	67.2	43.8	83.8
61	204.1	145.1	185.1#

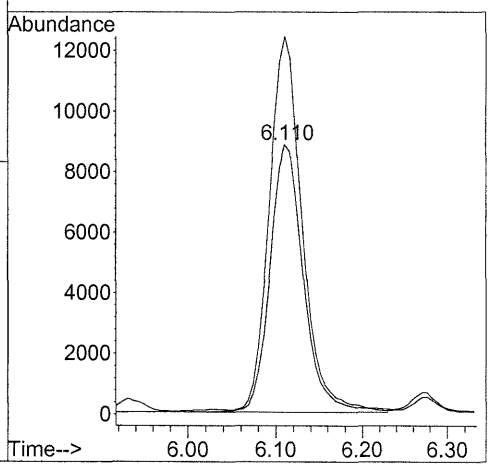


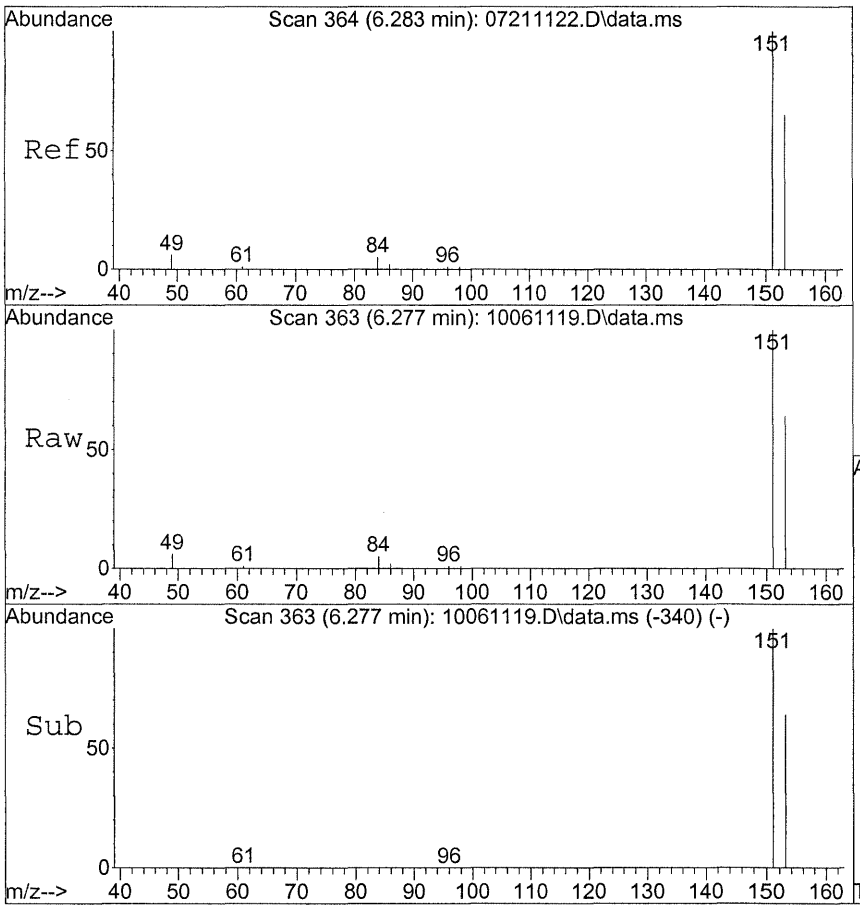


#10
Methylene Chloride
Concen: 240.15 pg
RT: 6.11 min Scan# 335
Delta R.T. -0.006 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 84 Resp: 23367

Ion	Ratio	Lower	Upper
84	100		
49	136.4	107.9	147.9

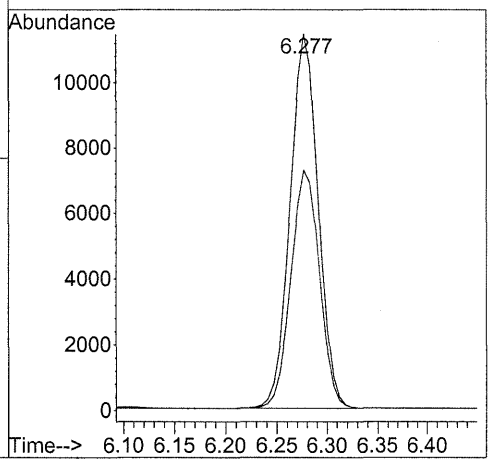


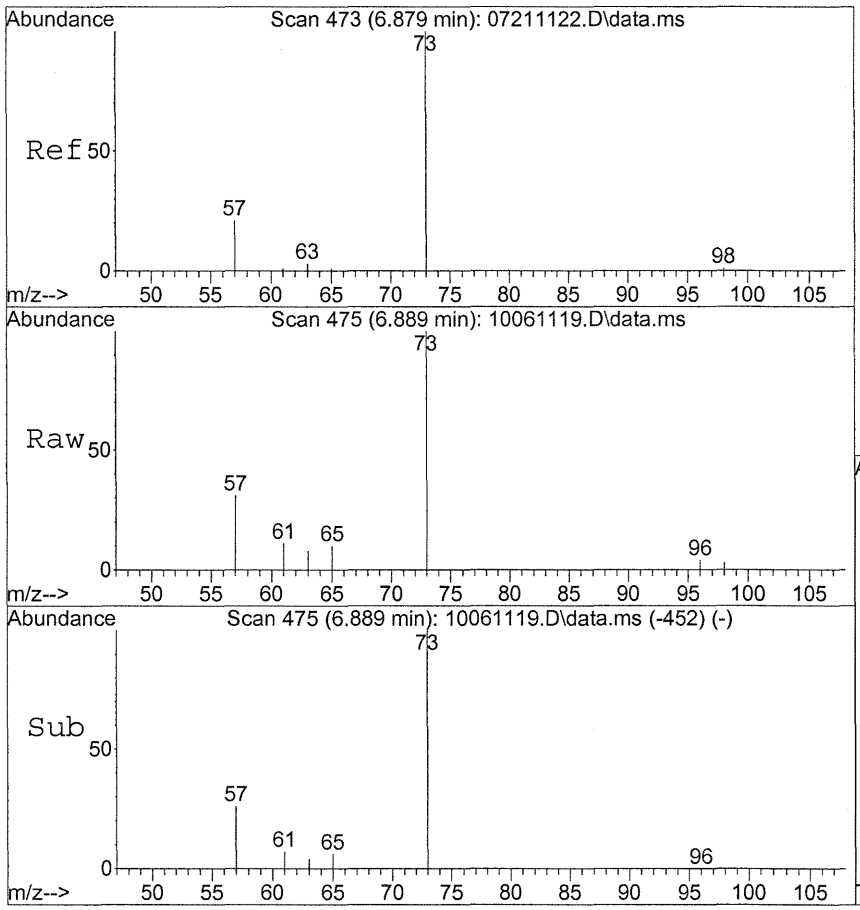


#11
Trichlorotrifluoroethane
Concen: 284.22 pg
RT: 6.28 min Scan# 363
Delta R.T. -0.006 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion:151 Resp: 22355

Ion	Ratio	Lower	Upper
151	100		
153	64.8	44.1	84.1

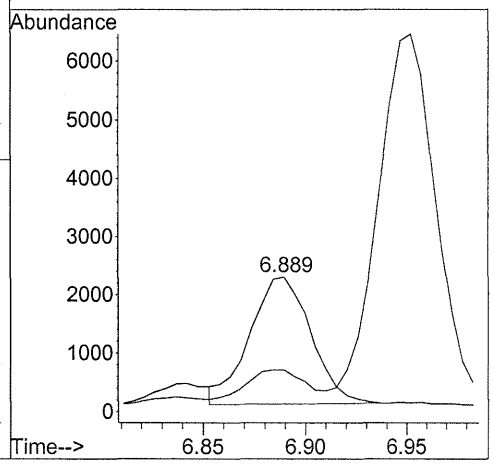


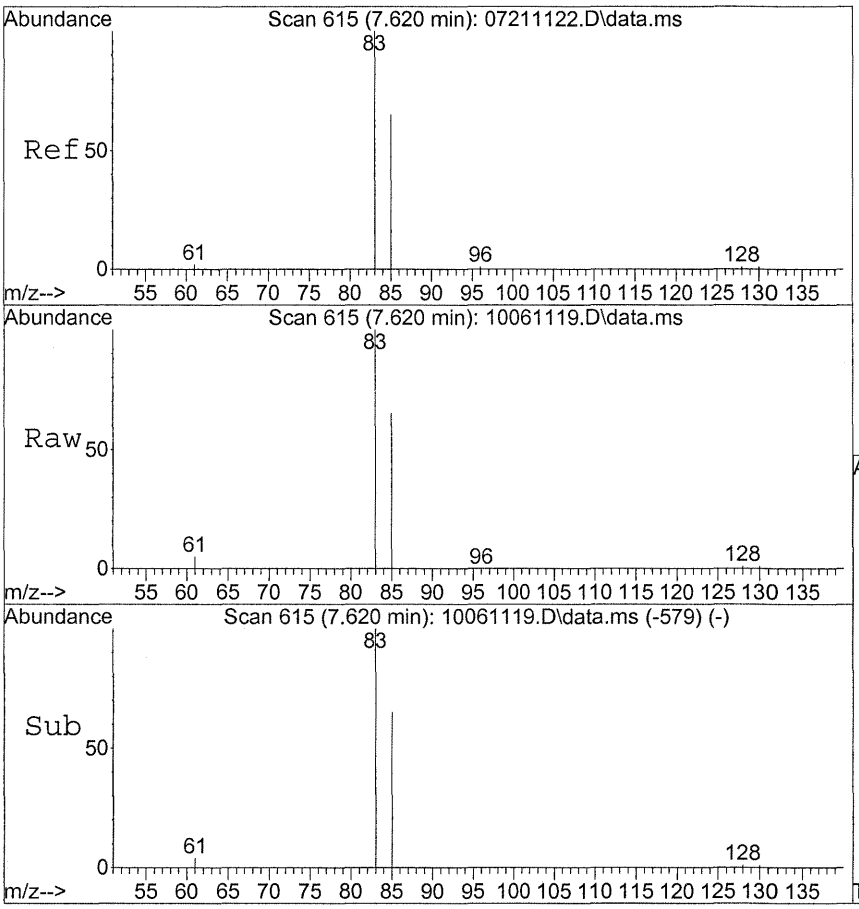


#14
Methyl tert-Butyl Ether
Concen: 14.91 pg
RT: 6.89 min Scan# 475
Delta R.T. 0.010 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 73 Resp: 4498

Ion	Ratio	Lower	Upper
73	100		
57	21.9	1.2	41.2

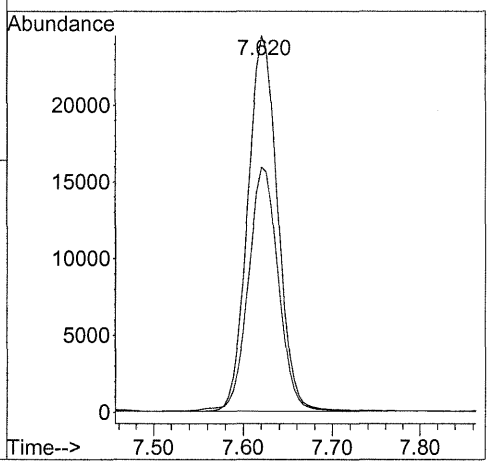


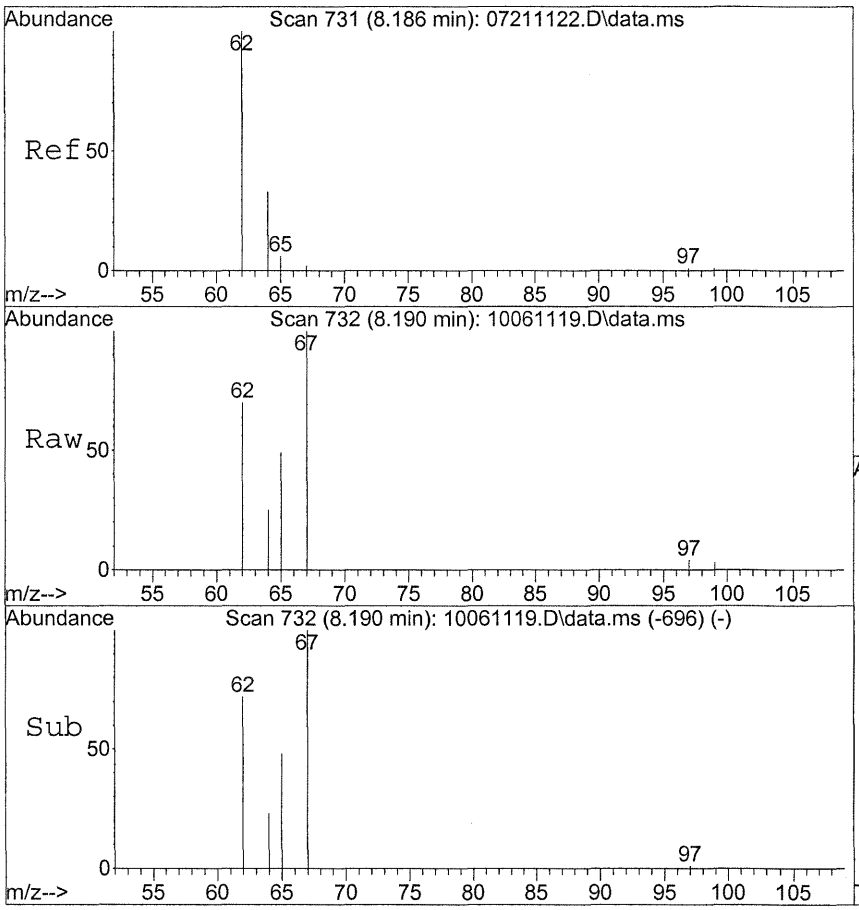


#16
Chloroform
Concen: 326.95 pg
RT: 7.62 min Scan# 615
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 83 Resp: 56503

Ion	Ratio	Lower	Upper
83	100		
85	65.8	44.4	84.4

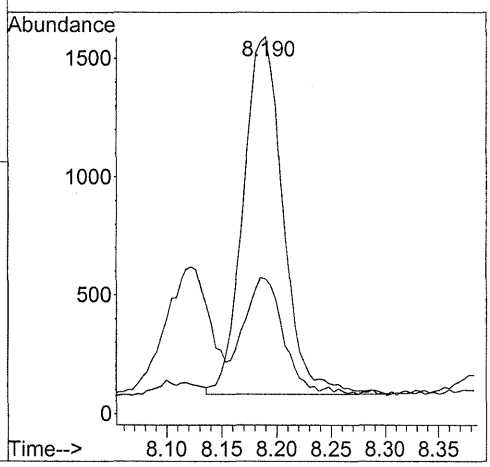


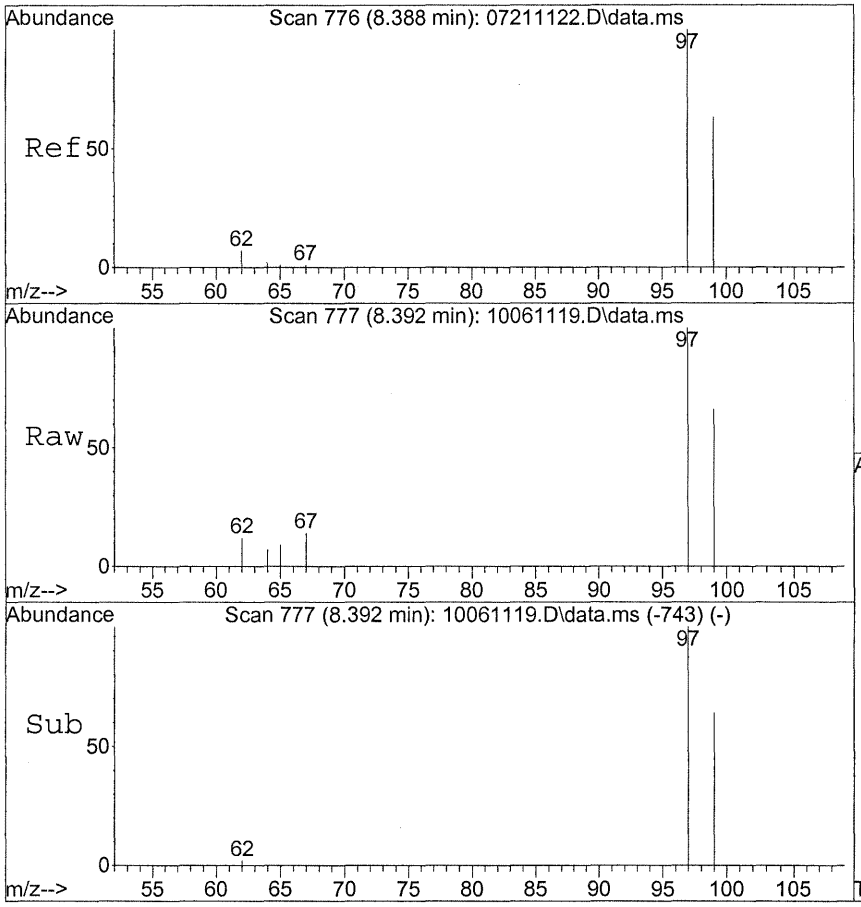


#18
1,2-Dichloroethane
Concen: 27.39 pg
RT: 8.19 min Scan# 732
Delta R.T. 0.004 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 62 Resp: 3798

Ion	Ratio	Lower	Upper
62	100		
64	31.2	10.3	50.3

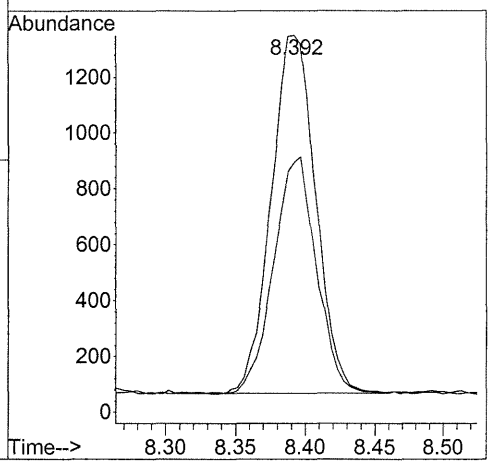


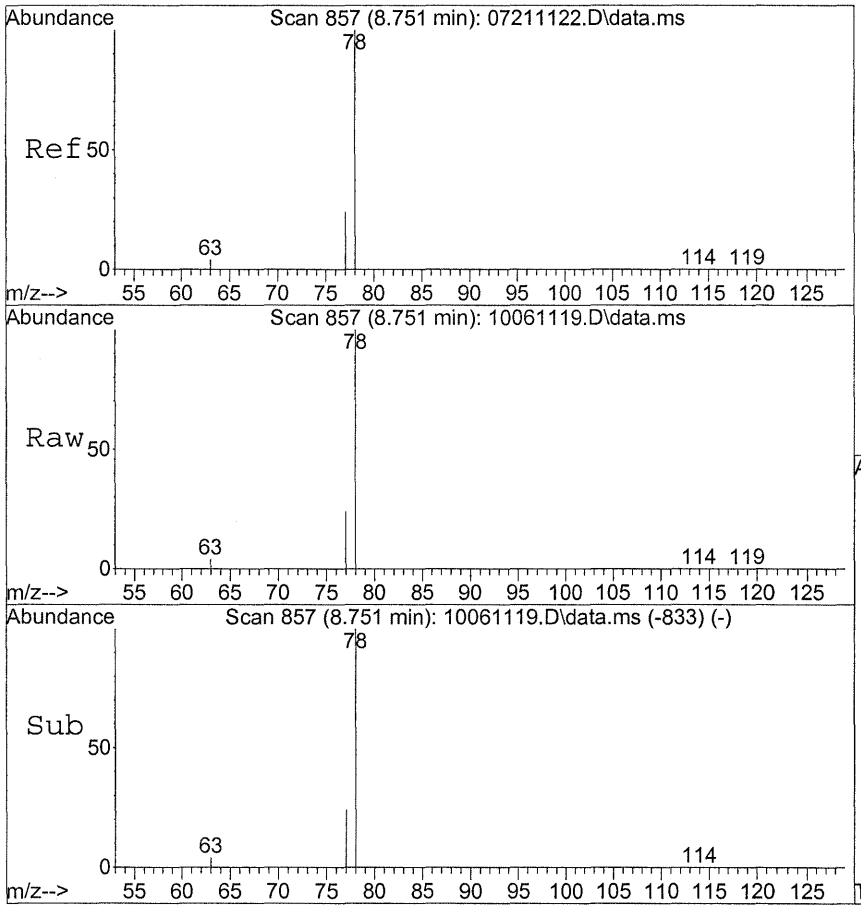


#19
1,1,1-Trichloroethane
Concen: 18.67 pg
RT: 8.39 min Scan# 777
Delta R.T. 0.004 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 97 Resp: 2861

Ion	Ratio	Lower	Upper
97	100		
99	64.1	45.2	85.2

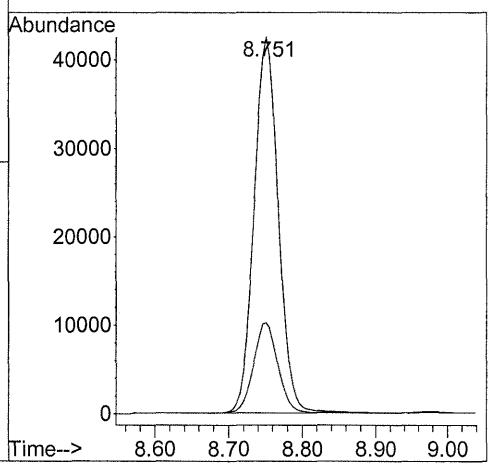


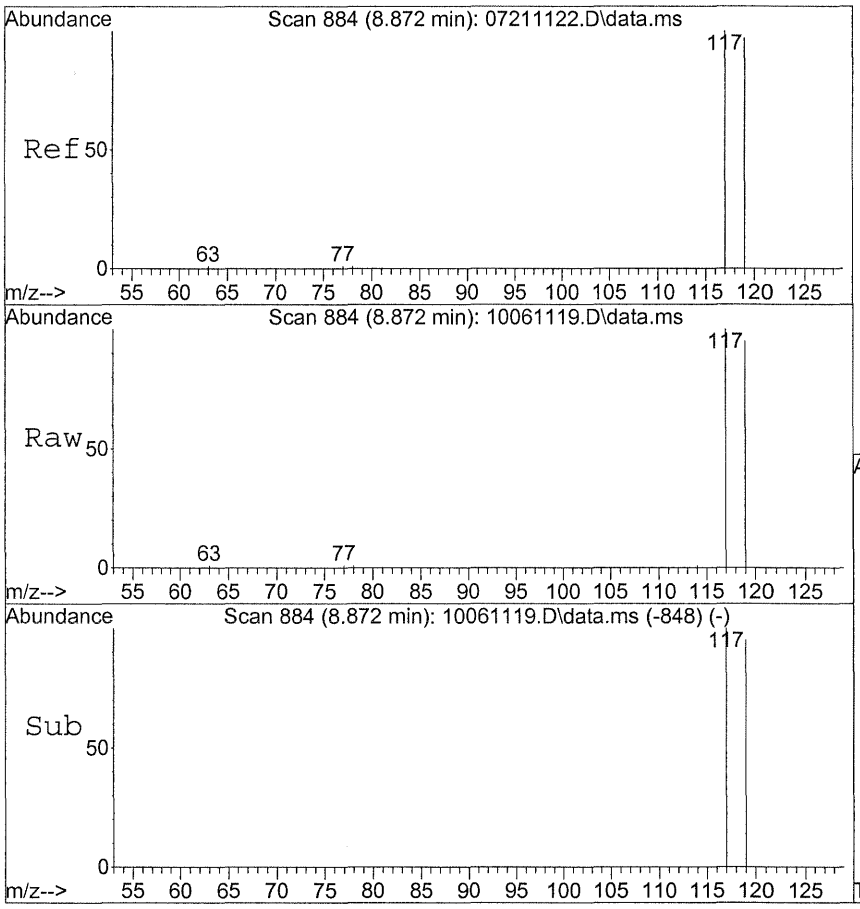


#20
Benzene
Concen: 243.60 pg
RT: 8.75 min Scan# 857
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 78 Resp: 97965

Ion	Ratio	Lower	Upper
78	100		
77	24.1	4.0	44.0

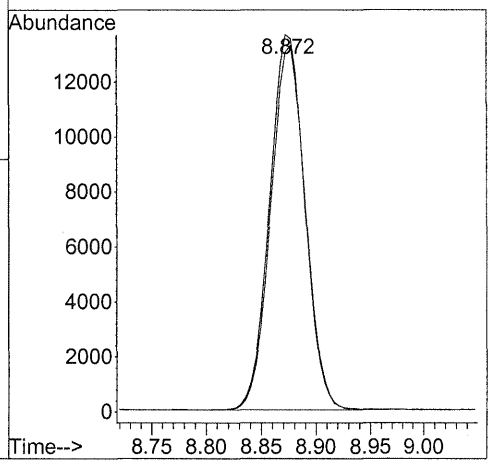


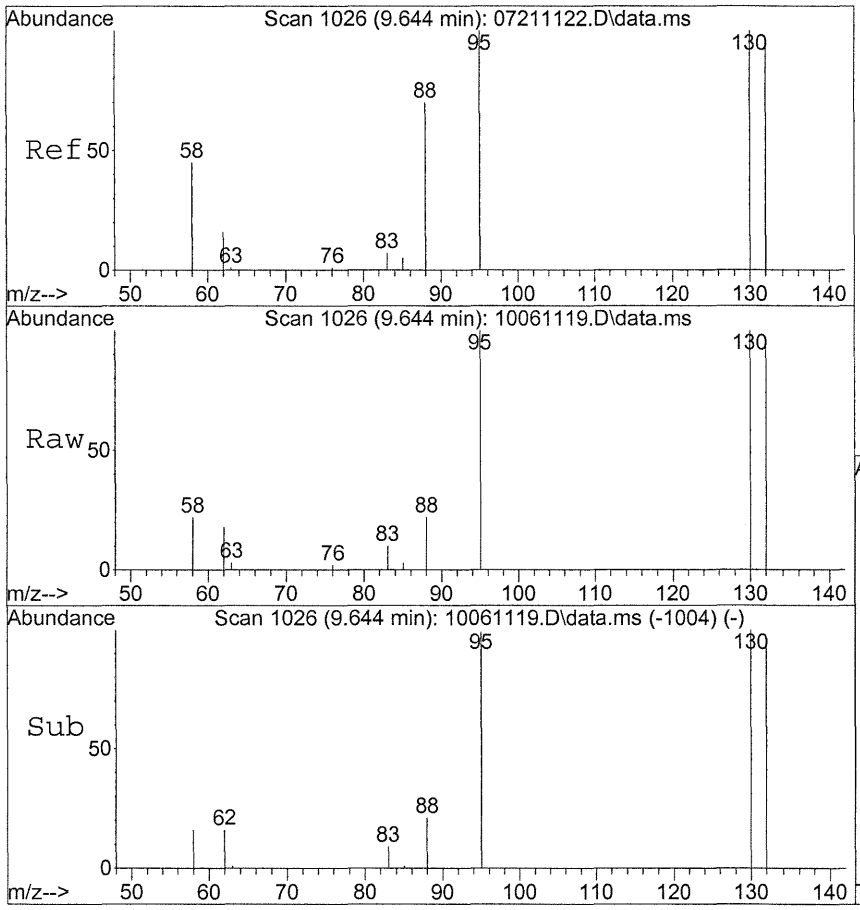


#21
Carbon Tetrachloride
Concen: 252.46 pg
RT: 8.87 min Scan# 884
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion:117 Resp: 30293

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.5	117.5

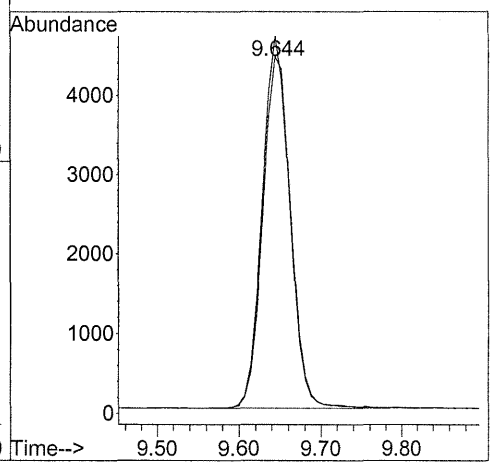


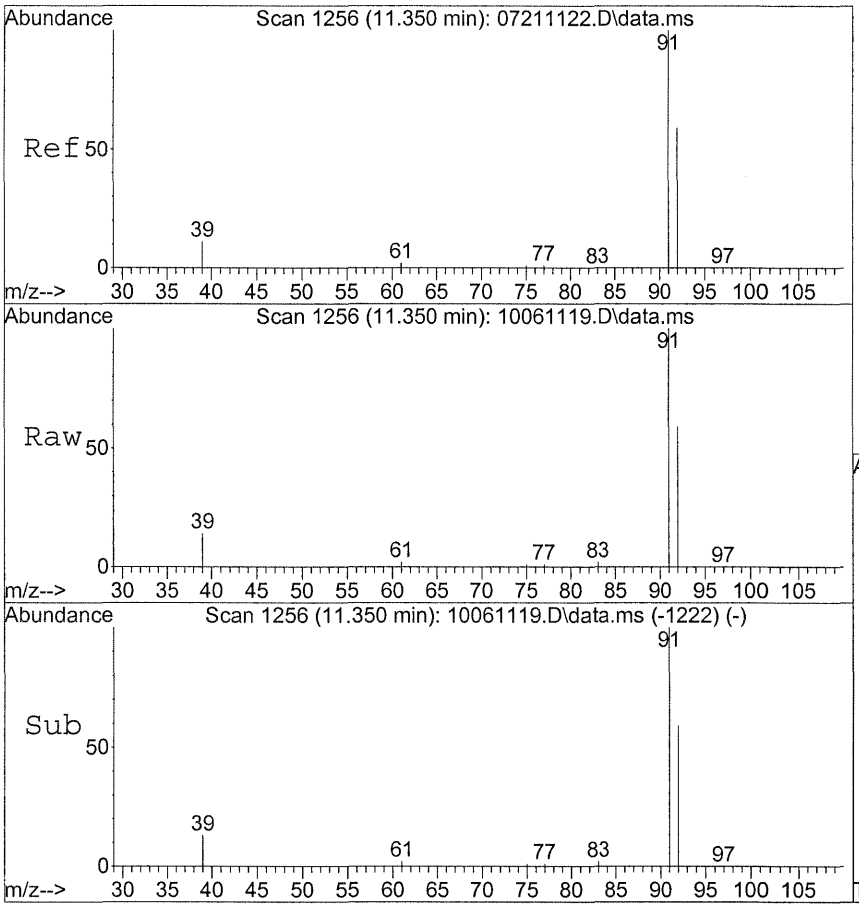


#25
Trichloroethene
Concen: 103.10 pg
RT: 9.64 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion:130 Resp: 10740

Ion	Ratio	Lower	Upper
130	100		
132	97.3	74.7	114.7

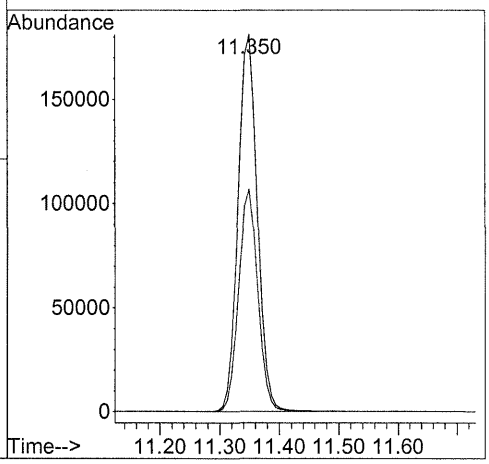


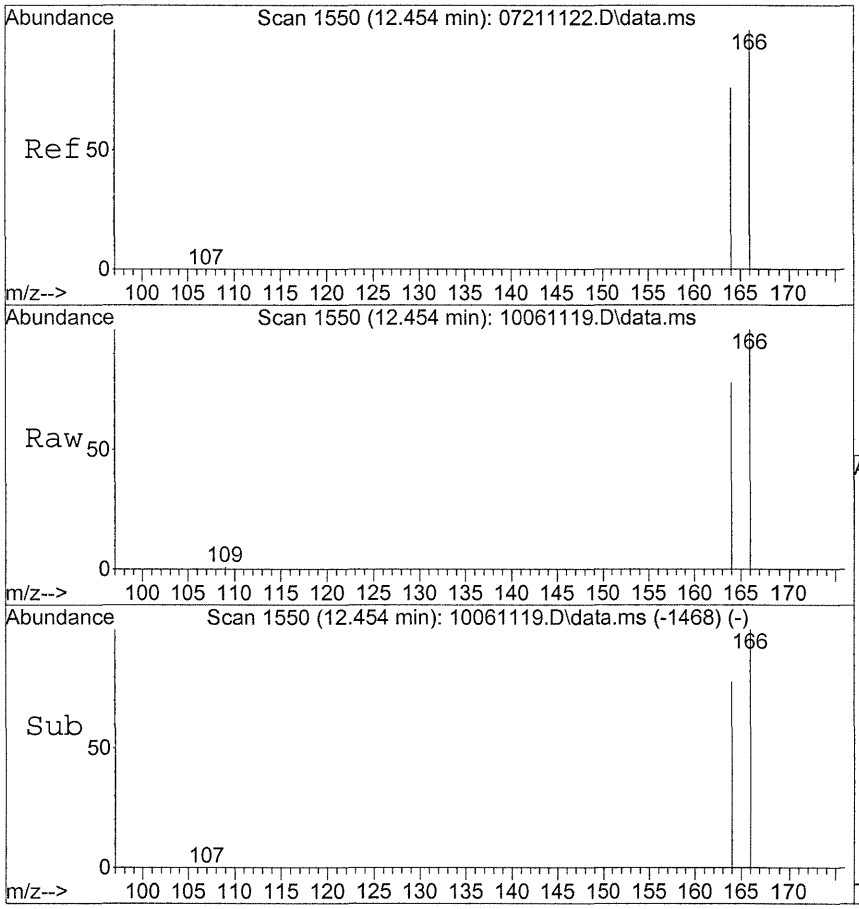


#31
Toluene
Concen: 1025.88 pg
RT: 11.35 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 91 Resp: 409637

Ion	Ratio	Lower	Upper
91	100		
92	58.5	38.2	78.2

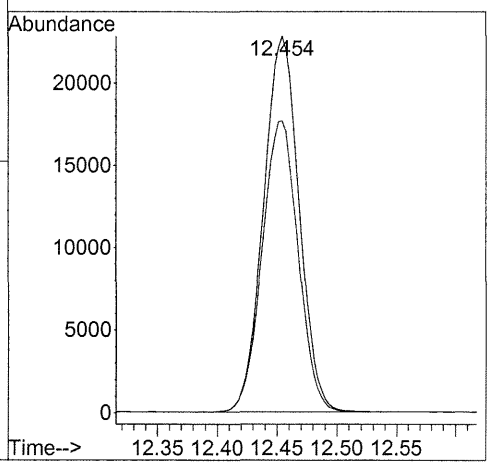


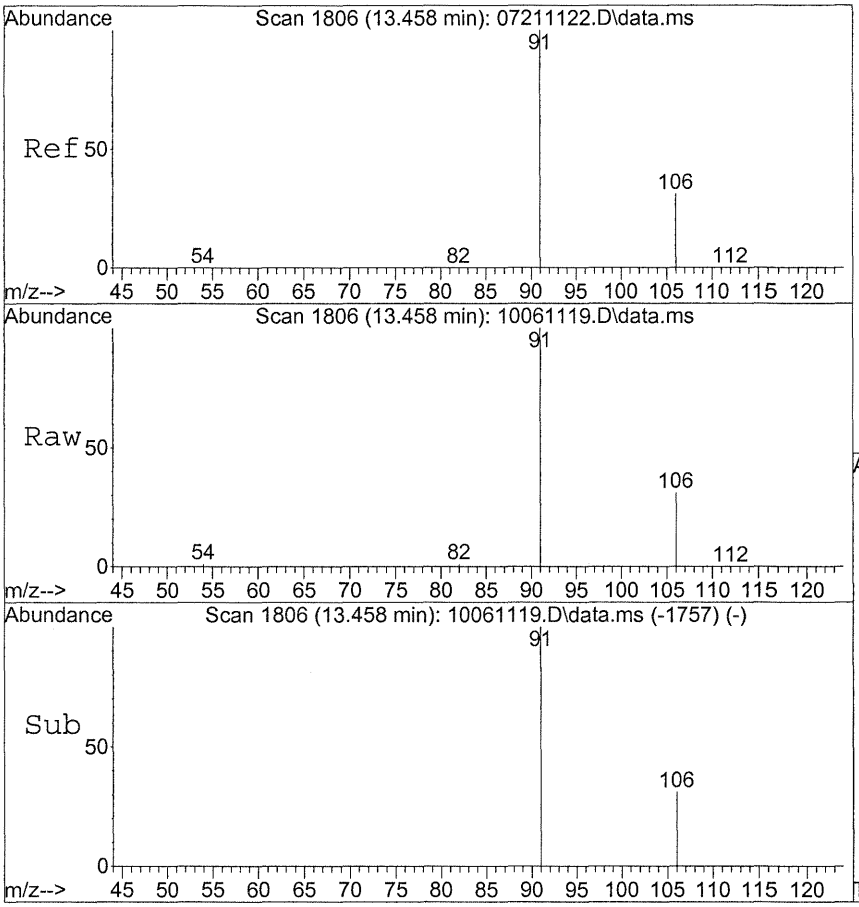


#33
Tetrachloroethene
Concen: 420.11 pg
RT: 12.45 min Scan# 1550
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion:166 Resp: 46944

Ion	Ratio	Lower	Upper
166	100		
164	78.4	58.2	98.2

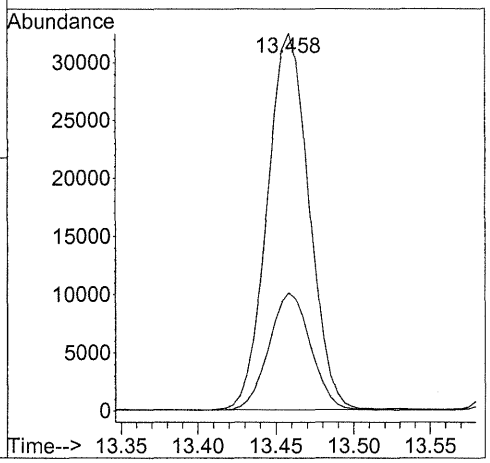


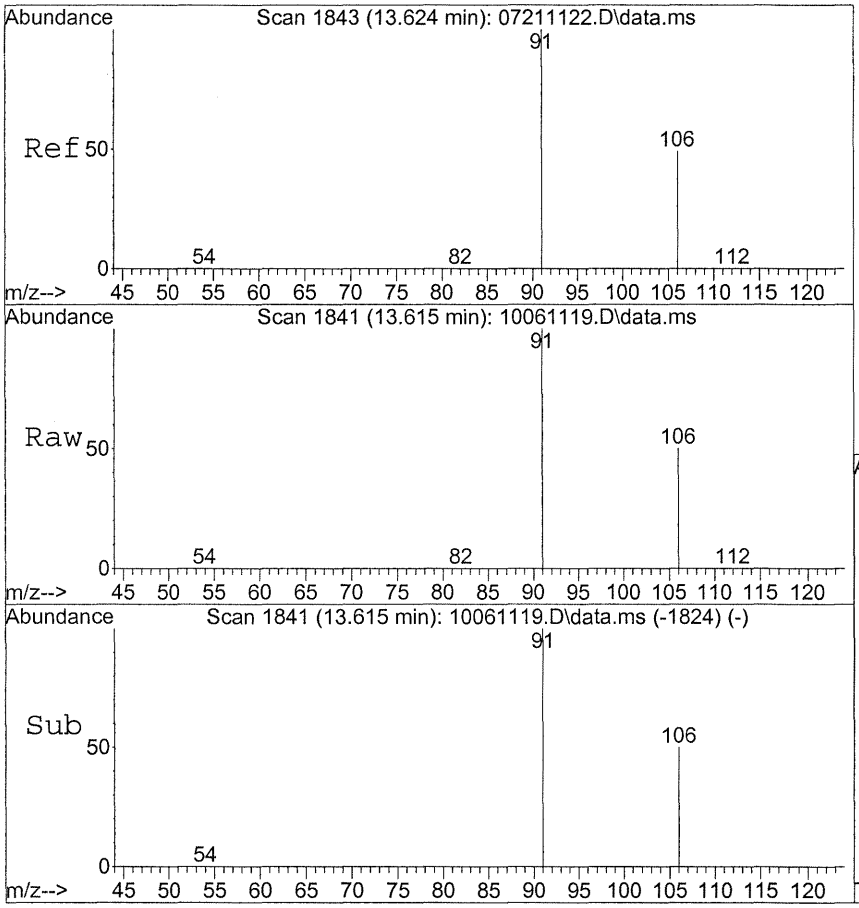


#36
Ethylbenzene
Concen: 140.25 pg
RT: 13.46 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 91 Resp: 60270

Ion	Ratio	Lower	Upper
91	100		
106	31.1	11.9	51.9

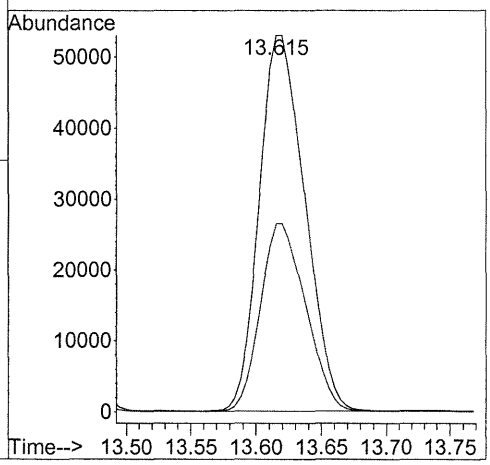


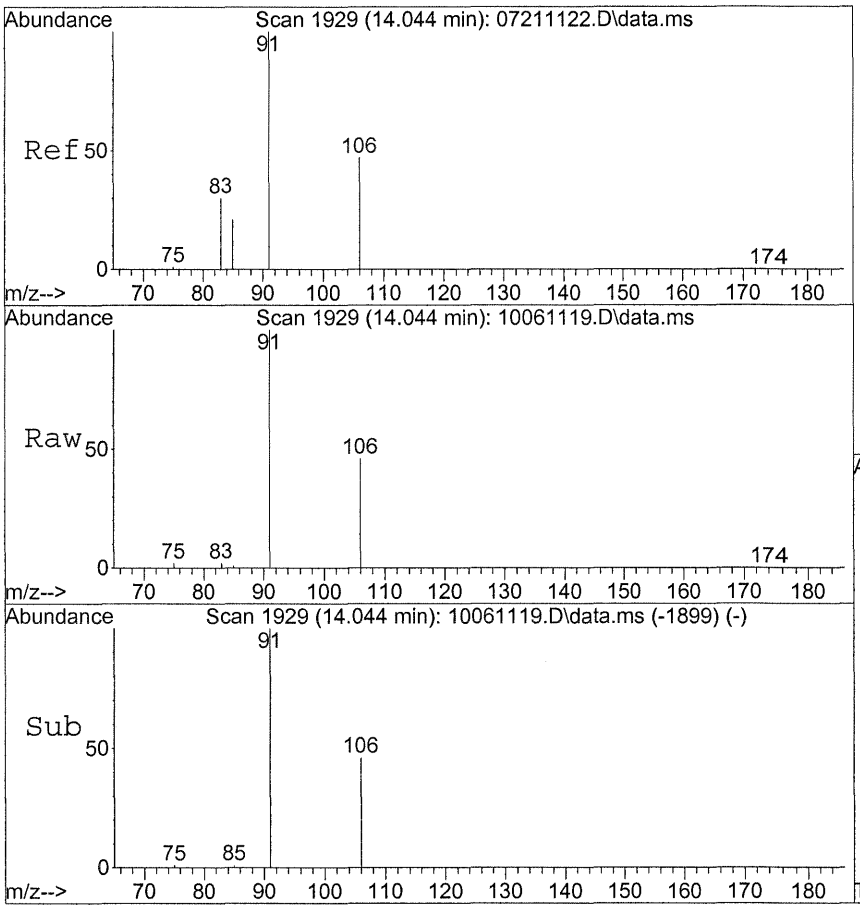


#37
m,p-Xylene
Concen: 365.01 pg
RT: 13.62 min Scan# 1841
Delta R.T. -0.009 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 91 Resp: 127708

Ion	Ratio	Lower	Upper
91	100		
106	49.6	30.3	70.3

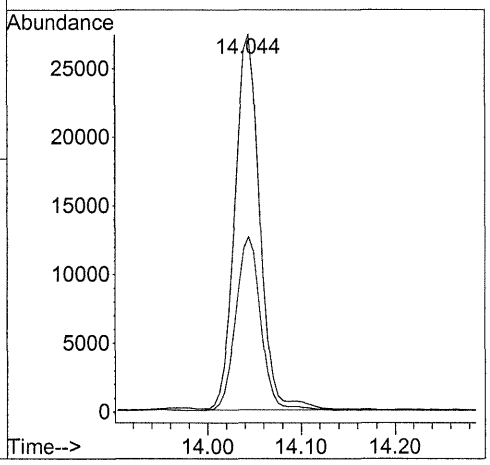


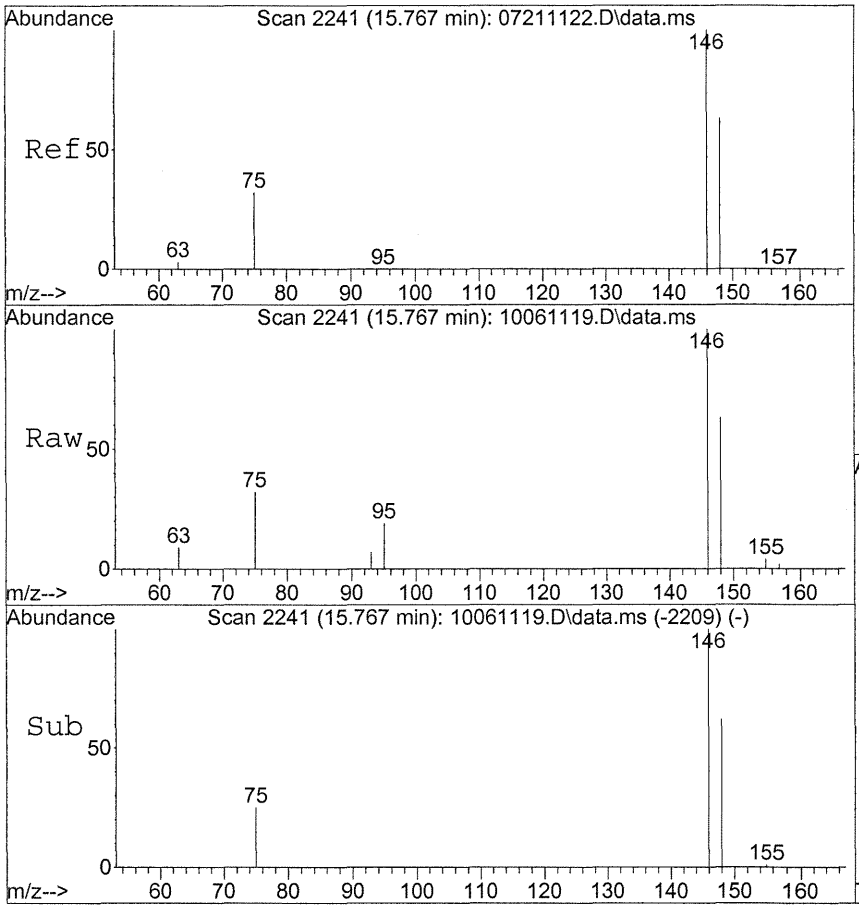


#38
o-Xylene
Concen: 142.71 pg
RT: 14.04 min Scan# 1929
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion: 91 Resp: 50936

Ion	Ratio	Lower	Upper
91	100		
106	46.6	28.4	68.4

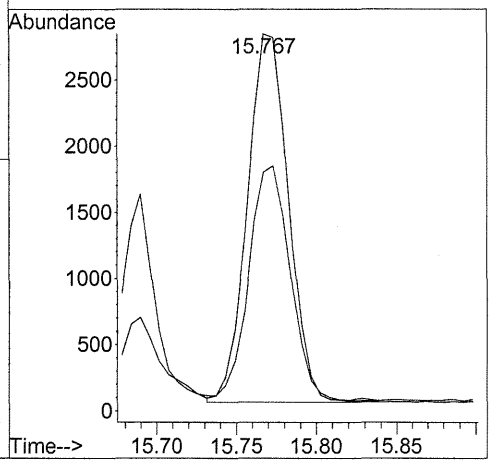


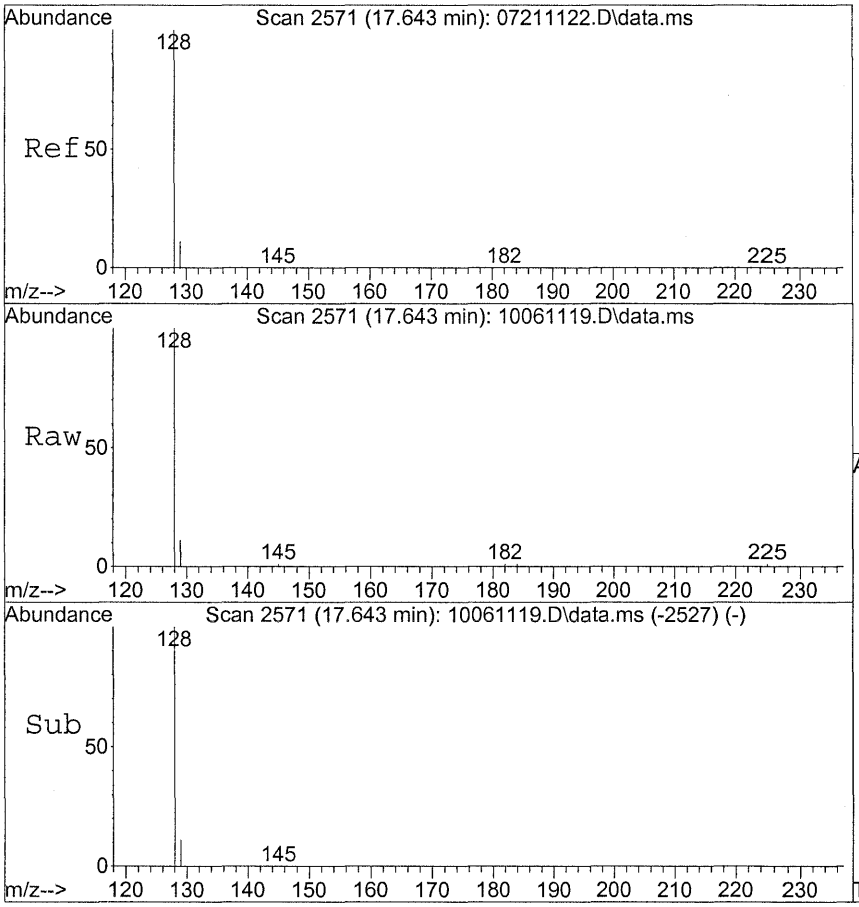


#42
1,4-Dichlorobenzene
Concen: 23.27 pg
RT: 15.77 min Scan# 2241
Delta R.T. 0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion:146 Resp: 4956

Ion	Ratio	Lower	Upper
146	100		
148	63.7	42.9	82.9

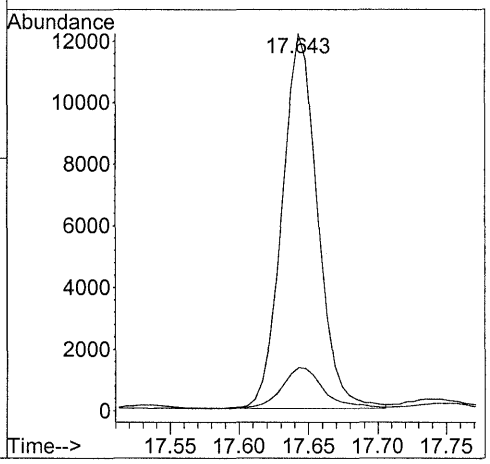




#45
Naphthalene
Concen: 41.39 pg
RT: 17.64 min Scan# 2571
Delta R.T. -0.000 min
Lab File: 10061119.D
Acq: 6 Oct 2011 17:22

Tgt Ion:128 Resp: 21677

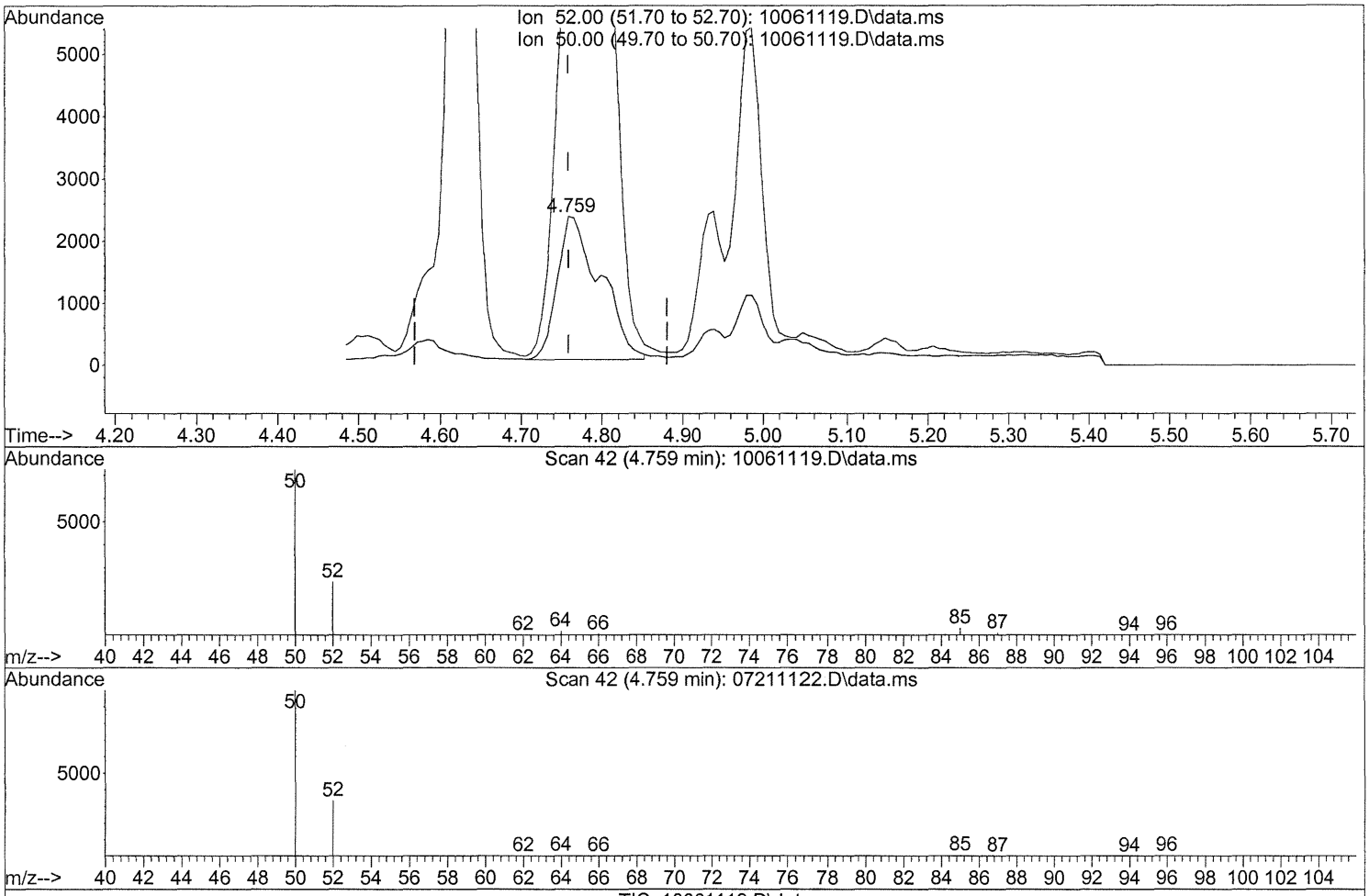
Ion	Ratio	Lower	Upper
128	100		
129	13.0	0.0	30.9



Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:29:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061119.D\data.ms

(3) Chloromethane (T)

4.759min (+0.000) 189.73pg

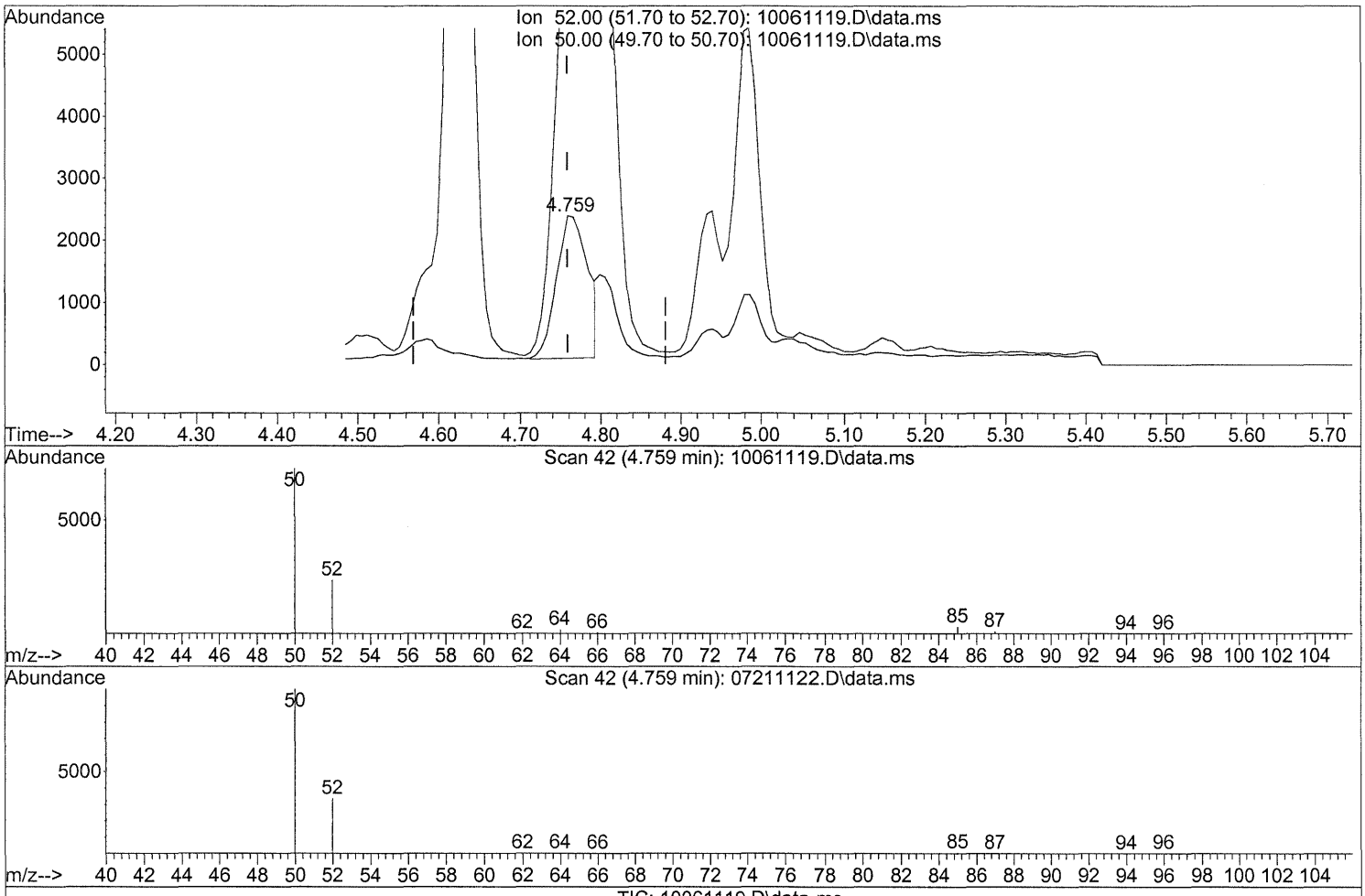
response 8545

Ion	Exp%	Act%
52.00	100	100
50.00	305.30	219.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:29:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061119.D\data.ms

(3) Chloromethane (T)

4.759min (+0.000) 138.66pg m

response 6245

Ion	Exp%	Act%
52.00	100	100
50.00	305.30	300.54
0.00	0.00	0.00
0.00	0.00	0.00

RC

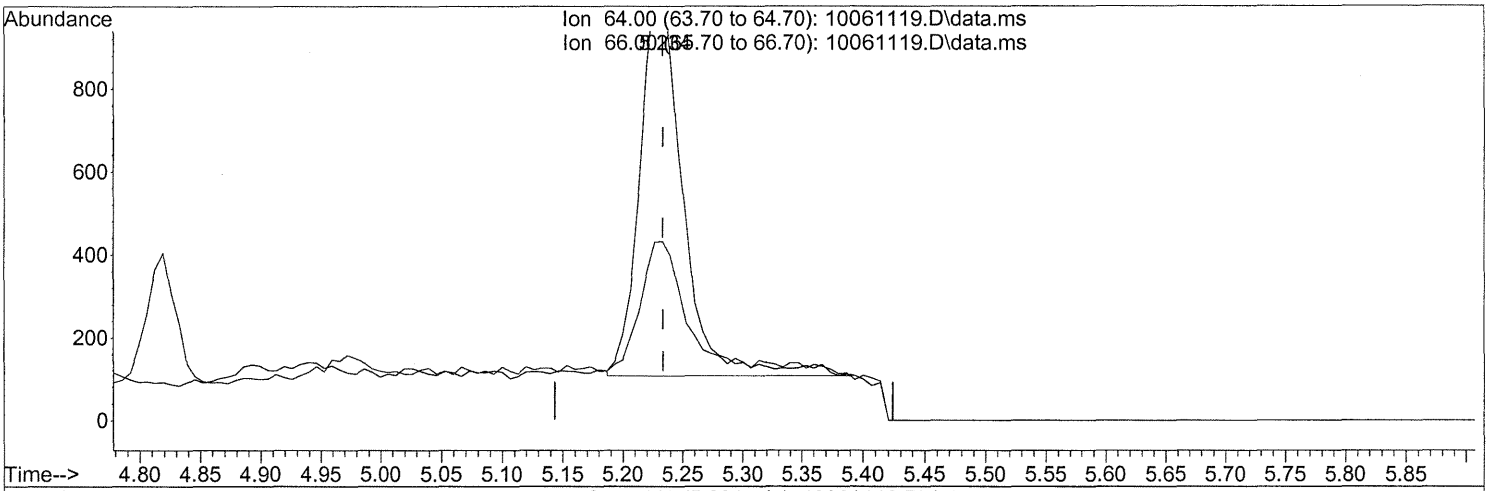
10/7/11

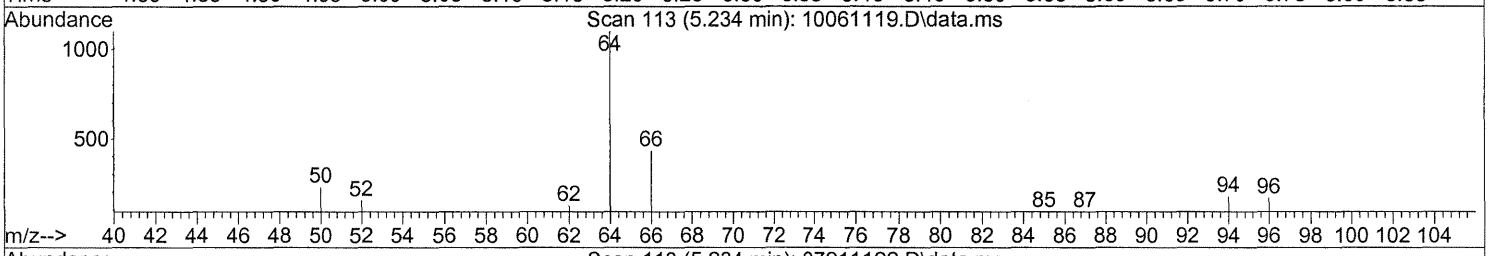
10/7/11

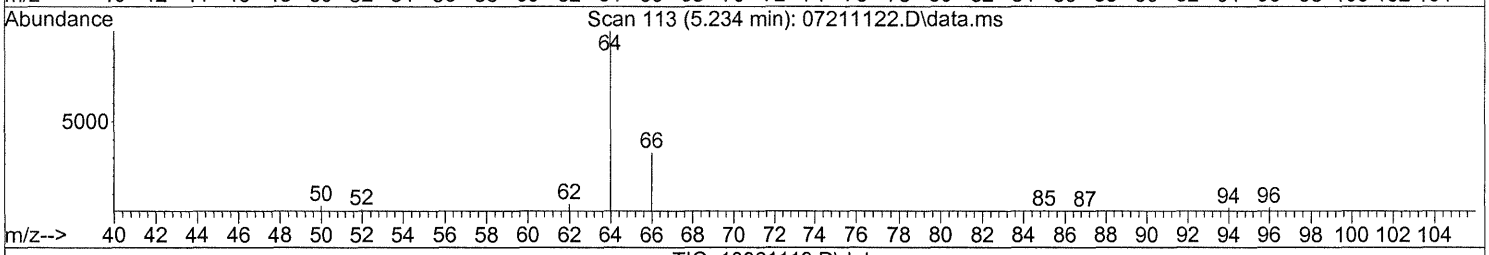
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:29:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061119.D\data.ms

(6) Chloroethane (T)

5.234min (-0.000) 28.00pg

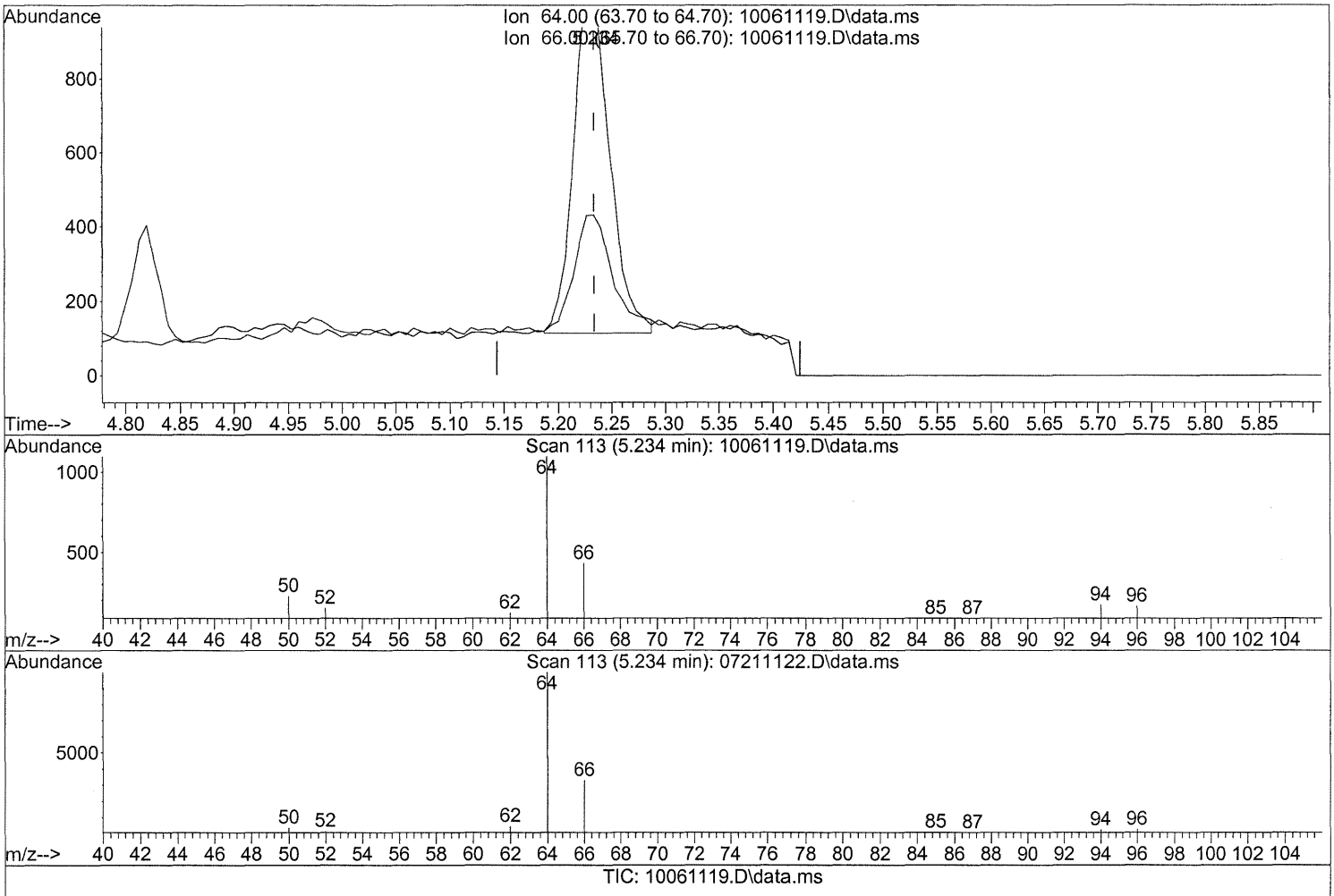
response 2352

Ion	Exp%	Act%
64.00	100	100
66.00	32.00	47.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:29:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



(6) Chloroethane (T)

5.234min (-0.000) 26.15pg m

response 2197

Ion	Exp%	Act%
64.00	100	100
66.00	32.00	51.07
0.00	0.00	0.00
0.00	0.00	0.00

BLC

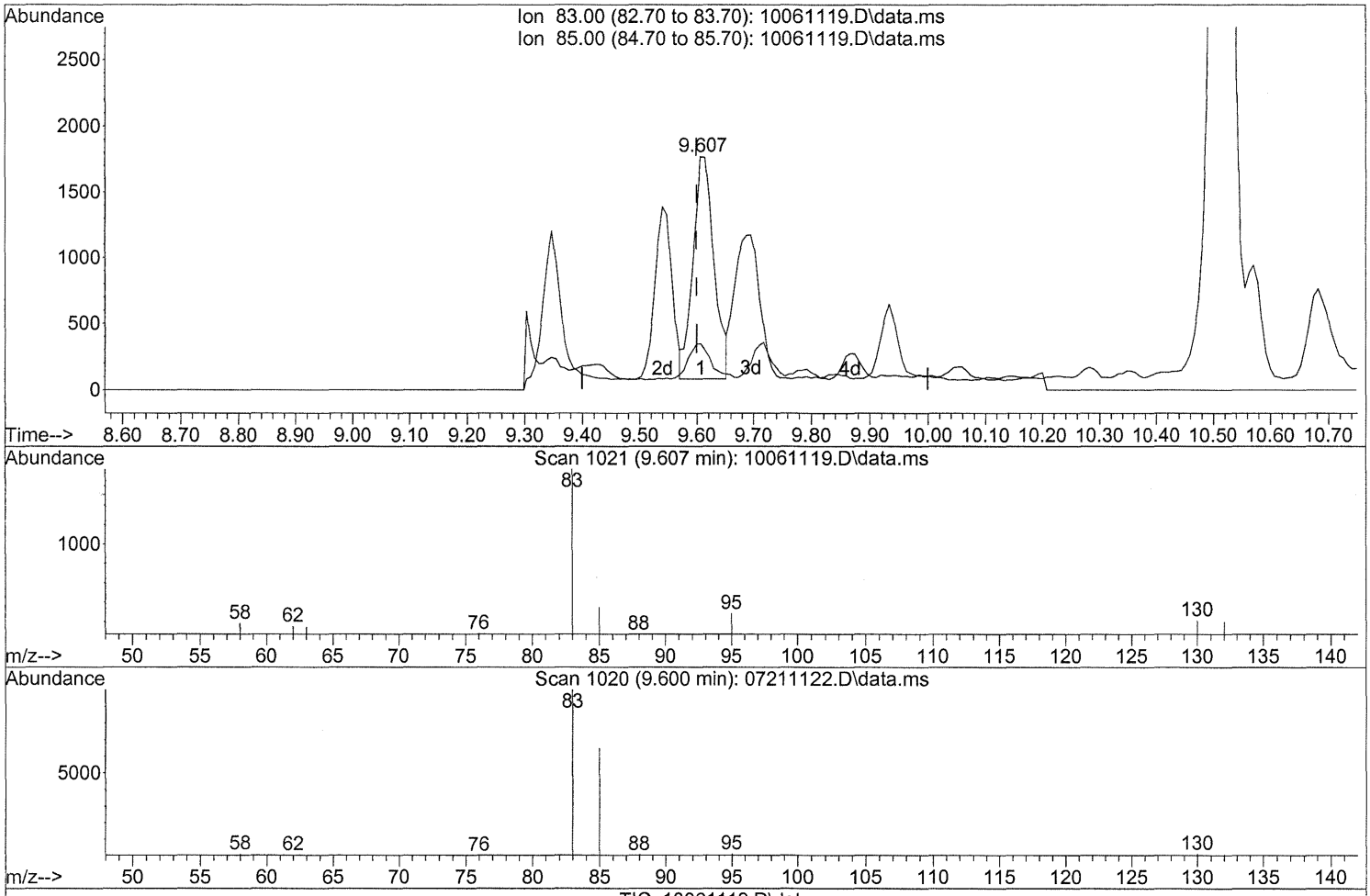
DA 10/7/11

LH 10/7/11

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:29:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061119.D\data.ms

(24) Bromodichloromethane (T)

9.607min (+0.007) 35.26pg

response 4302

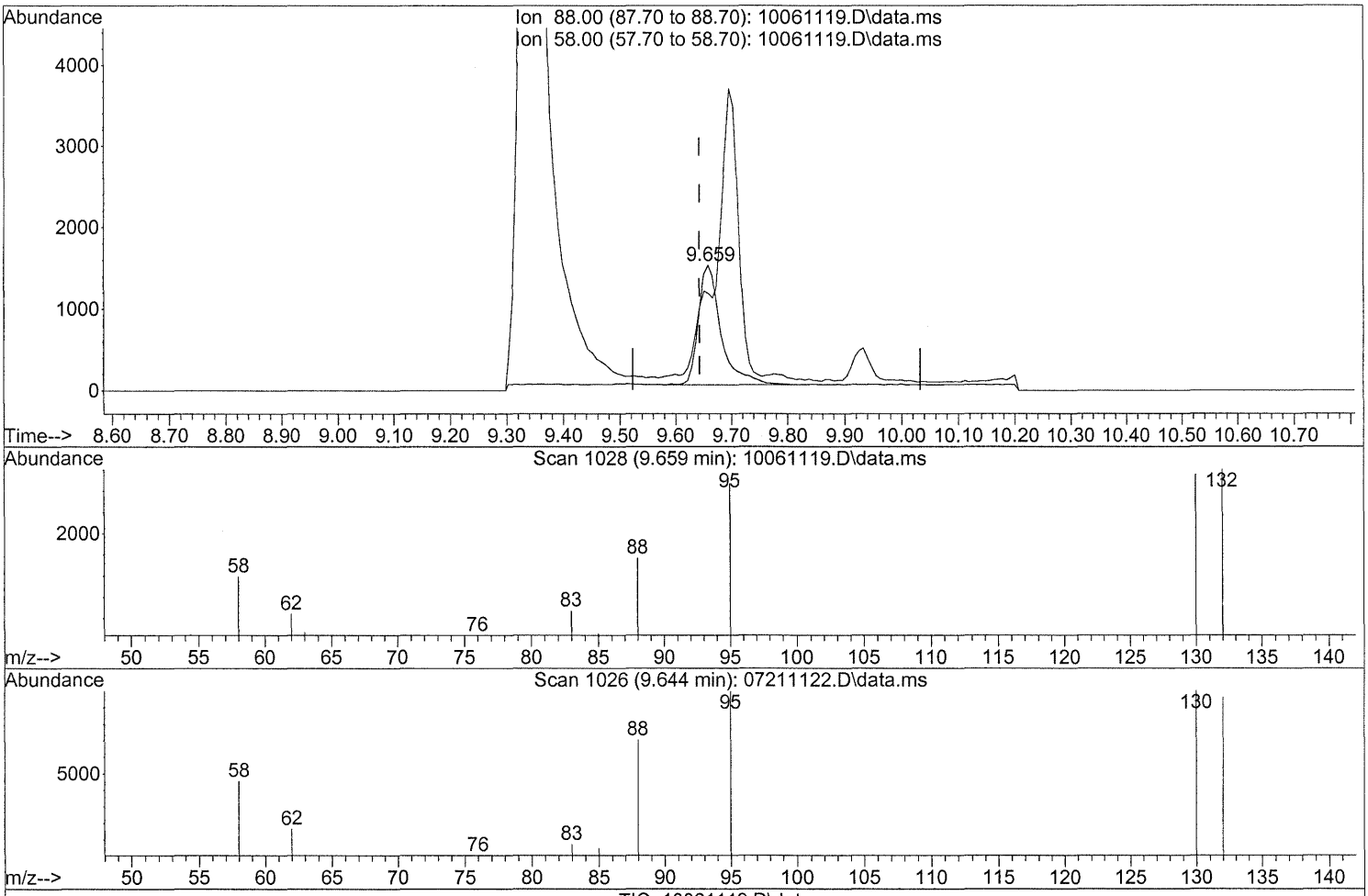
Ion	Exp%	Act%
83.00	100	100
85.00	63.50	18.76#
0.00	0.00	0.00
0.00	0.00	0.00

TP

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:33:16 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061119.D\data.ms

(26) 1,4-Dioxane (T)

9.659min (+0.015) 52.37pg

response 4119

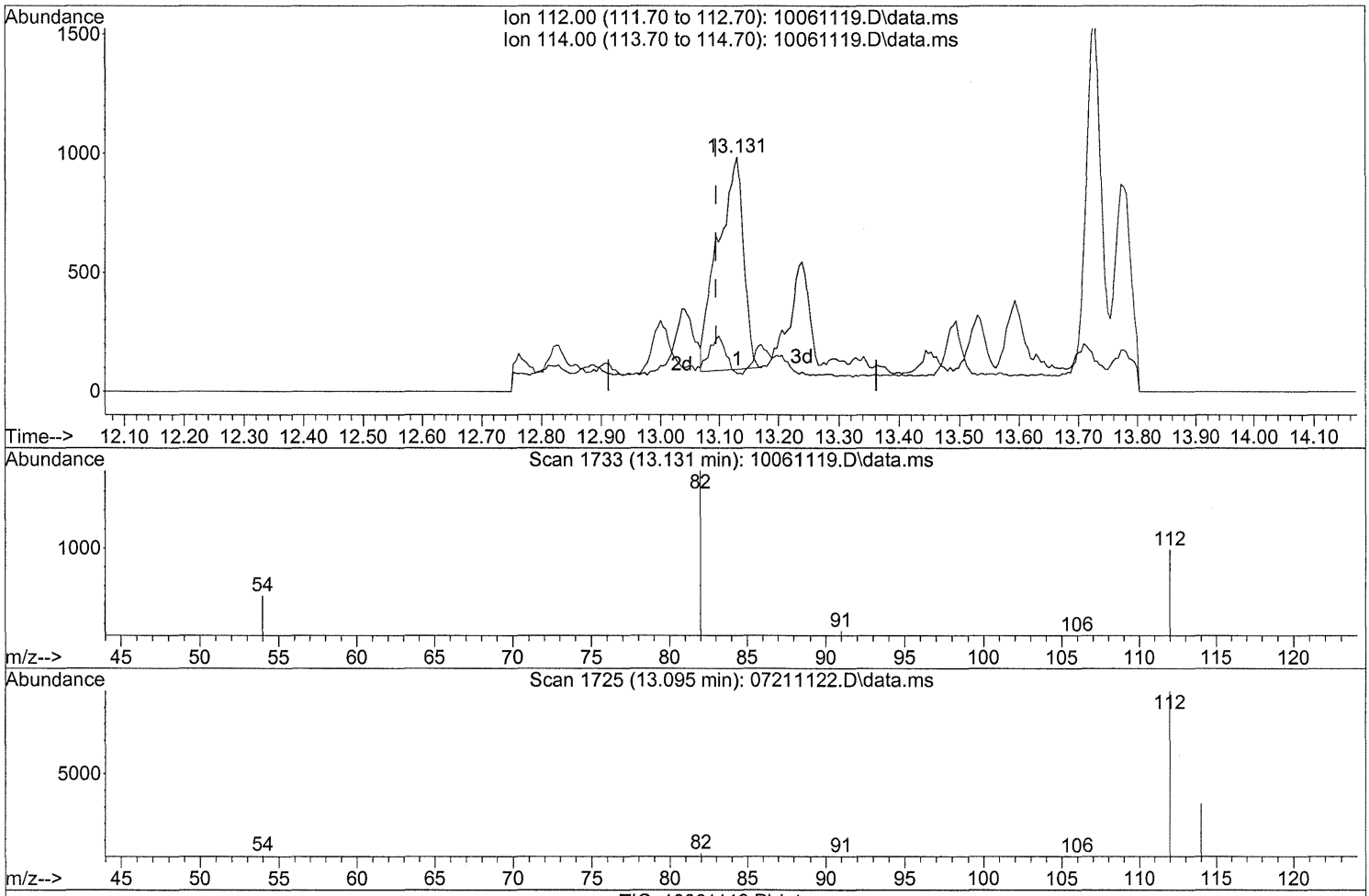
FP

Ion	Exp%	Act%
88.00	100	100
58.00	63.80	240.08#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:29:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061119.D\data.ms

(35) Chlorobenzene (T)

13.131min (+0.036) 10.96pg

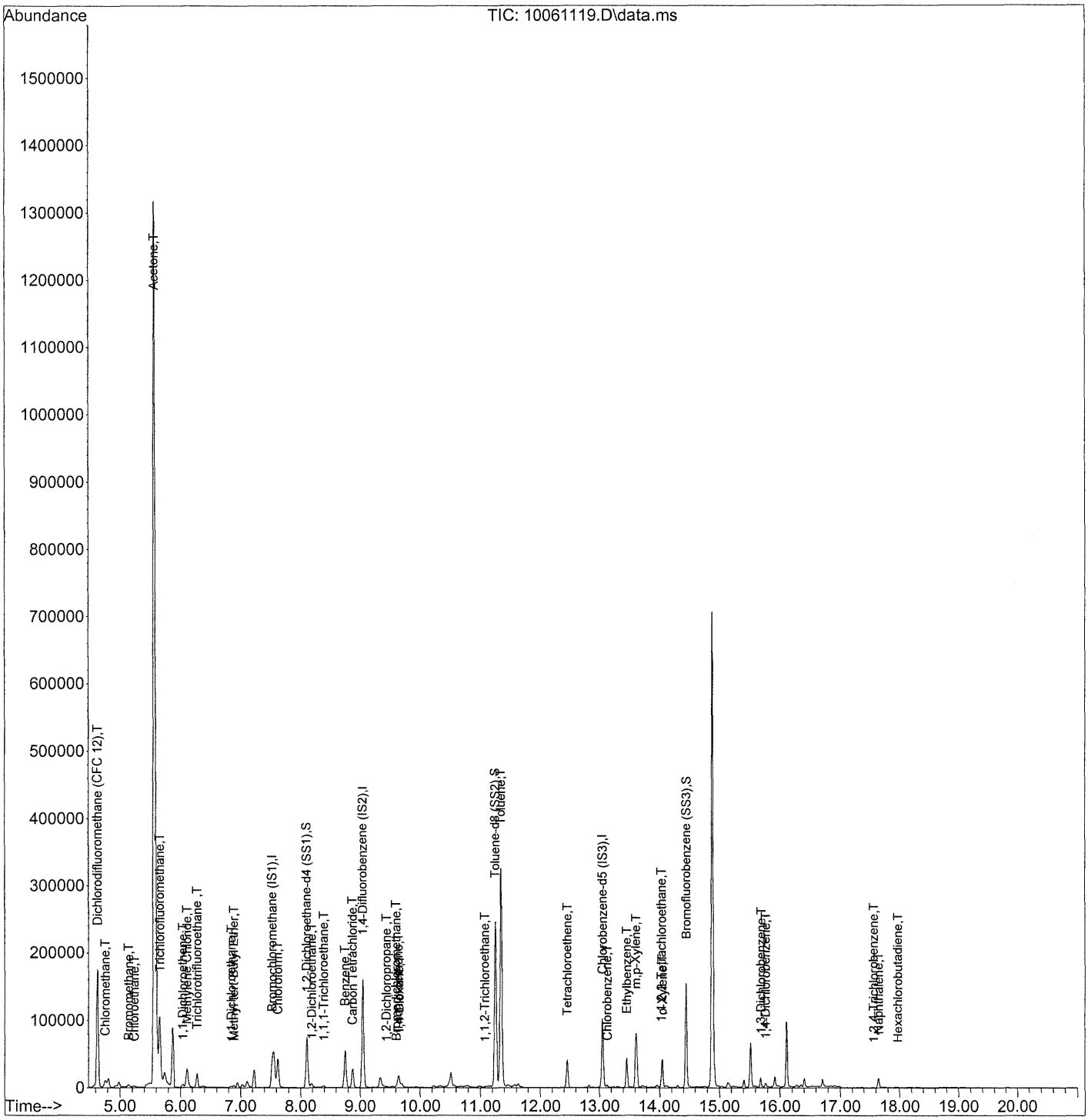
response 2677

Ion	Exp%	Act%
112.00	100	100
114.00	31.90	12.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:29:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:29:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	62200	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	296466	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	143304	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.10	65	119862	985.66	pg		0.00
Spiked Amount 1000.000			Recovery = 98.57%				
30) Toluene-d8 (SS2)	11.25	98	318862	989.37	pg		0.00
Spiked Amount 1000.000			Recovery = 98.94%				
40) Bromofluorobenzene (SS3)	14.45	174	111048	973.28	pg		0.00
Spiked Amount 1000.000			Recovery = 97.33%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.63	85	222154	1216.42	pg		98
3) Chloromethane	4.76	52	8545	189.73	pg	#	57
4) Vinyl Chloride	4.90	62	251	N.D.			
5) Bromomethane	5.14	94	3552	49.22	pg		100
6) Chloroethane	5.23	64	2352	28.00	pg		72
7) Acetone	5.57	58	709533	9895.09	pg	#	86
8) Trichlorofluoromethane	5.66	101	108909	636.91	pg		98
9) 1,1-Dichloroethene	6.04	96	2775	34.07	pg	#	78
10) Methylene Chloride	6.11	84	23367	240.15	pg		93
11) Trichlorotrifluoroethane	6.28	151	22355	284.22	pg		99
12) trans-1,2-Dichloroethene	6.70	96	245	N.D.			
13) 1,1-Dichloroethane	6.85	63	756	5.15	pg	#	1
14) Methyl tert-Butyl Ether	6.89	73	4498	14.91	pg		99
15) cis-1,2-Dichloroethene	7.42	96	148	N.D.			
16) Chloroform	7.62	83	56503	326.95	pg		98
18) 1,2-Dichloroethane	8.19	62	3798	27.39	pg		98
19) 1,1,1-Trichloroethane	8.39	97	2861	18.67	pg		99
20) Benzene	8.75	78	97965	243.60	pg		100
21) Carbon Tetrachloride	8.87	117	30293	252.46	pg		99
23) 1,2-Dichloropropane	9.44	63	586	6.29	pg		98
24) Bromodichloromethane	9.61	83	4302	35.26	pg	#	43
25) Trichloroethene	9.64	130	10740	103.10	pg		97
26) 1,4-Dioxane	9.66	88	4119	52.37	pg	#	1
27) cis-1,3-Dichloropropene	10.43	75	453	N.D.			
28) trans-1,3-Dichloropropene	10.93	75	356	N.D.			
29) 1,1,2-Trichloroethane	11.08	83	481	6.48	pg	#	12
31) Toluene	11.35	91	409637	1025.88	pg		100
32) 1,2-Dibromoethane	11.99	107	95	N.D.			
33) Tetrachloroethene	12.45	166	46944	420.11	pg		100
35) Chlorobenzene	13.13	112	2677	10.96	pg		65

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061119.D
Acq On : 6 Oct 2011 17:22
Operator : KR
Sample : P1103662-001 (1000mL)
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 20:29:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

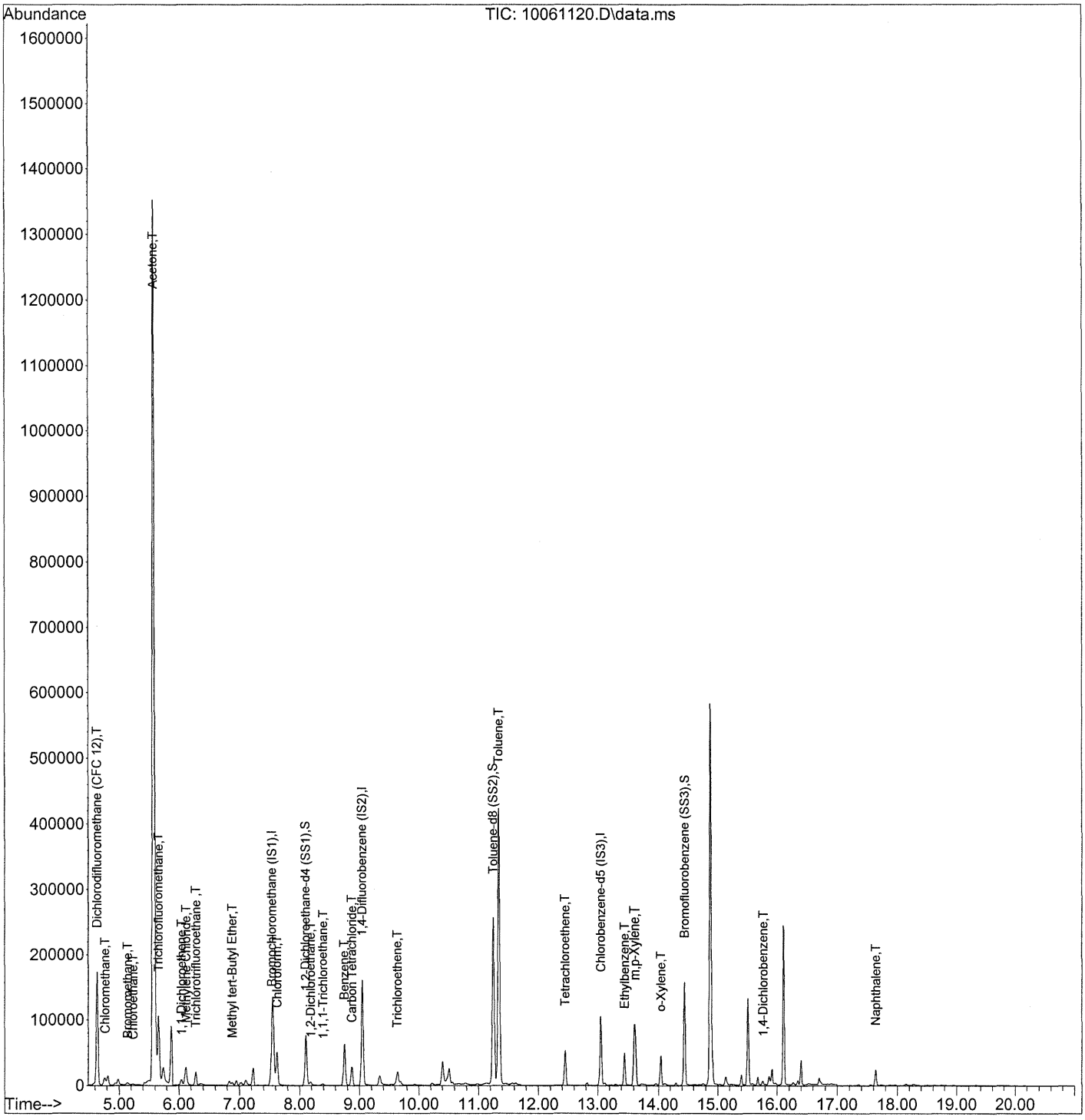
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Ethylbenzene	13.46	91	60270	140.25	pg		99
37) m,p-Xylene	13.62	91	127708	365.01	pg		99
38) o-Xylene	14.04	91	50936	142.71	pg		97
39) 1,1,2,2-Tetrachloroethane	14.03	83	925	5.86	pg		93
41) 1,3-Dichlorobenzene	15.69	146	1131	5.34	pg	#	1
42) 1,4-Dichlorobenzene	15.77	146	4956	23.27	pg		99
43) 1,2-Dichlorobenzene	16.07	146	271	N.D.			
44) 1,2,4-Trichlorobenzene	17.56	182	741	5.15	pg		96
45) Naphthalene	17.64	128	21677	41.39	pg		94
46) Hexachlorobutadiene	17.97	225	656	7.83	pg		96

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:36:07 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

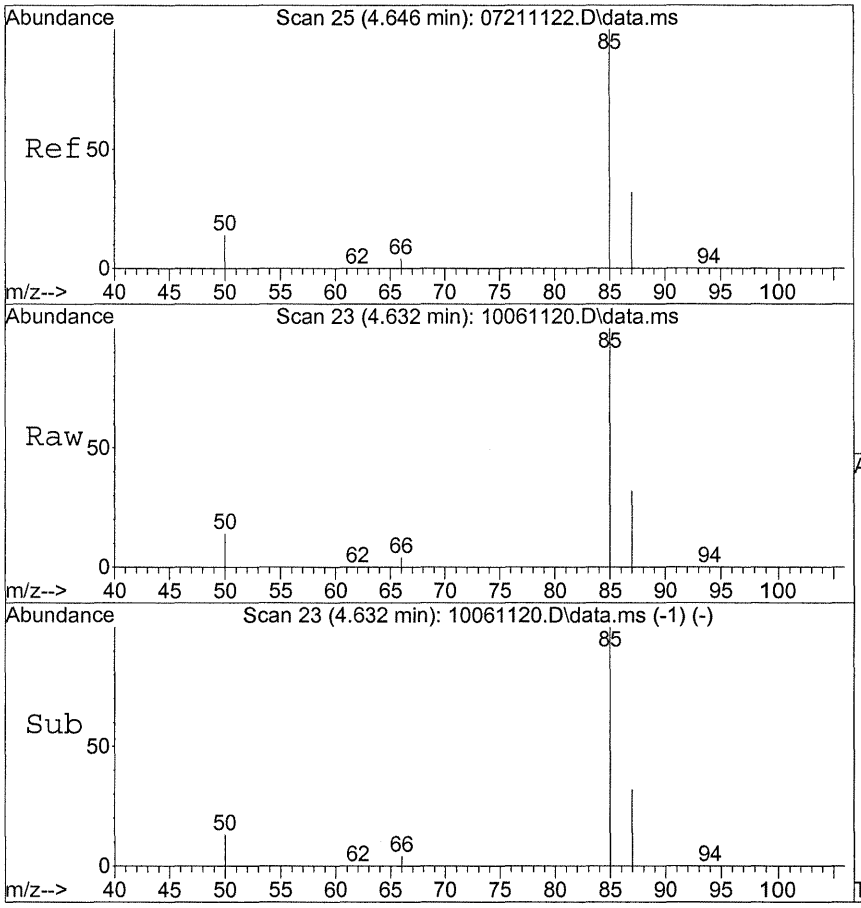
Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:36:07 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	63514	1000.00	pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	298015	1000.00	pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	149063	1000.00	pg	0.00
System Monitoring Compounds						
17) 1,2-Dichloroethane-d4 ...	8.10	65	118227	952.10	pg	0.00
Spiked Amount 1000.000			Recovery = 95.21%			
30) Toluene-d8 (SS2)	11.25	98	332295	1025.69	pg	0.00
Spiked Amount 1000.000			Recovery = 102.57%			
40) Bromofluorobenzene (SS3)	14.45	174	113926	959.92	pg	0.00
Spiked Amount 1000.000			Recovery = 95.99%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	4.63	85	220282	1181.21	pg	98
3) Chloromethane	4.77	52	6767m	147.14	pg	
5) Bromomethane	5.14	94	3595	48.79	pg	98
6) Chloroethane	5.23	64	1866m	21.75	pg	
7) Acetone	5.58	58	708583	9677.40	pg	# 86
8) Trichlorofluoromethane	5.66	101	113201	648.31	pg	99
9) 1,1-Dichloroethene	6.04	96	5320	63.97	pg	90
10) Methylene Chloride	6.12	84	22977	231.26	pg	94
11) Trichlorotrifluoroethane	6.28	151	21954	273.35	pg	99
14) Methyl tert-Butyl Ether	6.88	73	5567	18.08	pg	92
16) Chloroform	7.63	83	67060	380.01	pg	99
18) 1,2-Dichloroethane	8.19	62	3814	26.93	pg	99
19) 1,1,1-Trichloroethane	8.40	97	2854	18.24	pg	99
20) Benzene	8.75	78	112961	275.07	pg	100
21) Carbon Tetrachloride	8.88	117	31004	253.04	pg	99
25) Trichloroethene	9.64	130	14172	135.34	pg	99
31) Toluene	11.35	91	542467	1351.47	pg	100
33) Tetrachloroethene	12.45	166	60656	540.00	pg	100
36) Ethylbenzene	13.46	91	68598	153.46	pg	98
37) m,p-Xylene	13.62	91	147539	405.40	pg	99
38) o-Xylene	14.04	91	56896	153.25	pg	97
42) 1,4-Dichlorobenzene	15.77	146	5010	22.61	pg	98
45) Naphthalene	17.64	128	37009	67.93	pg	96

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

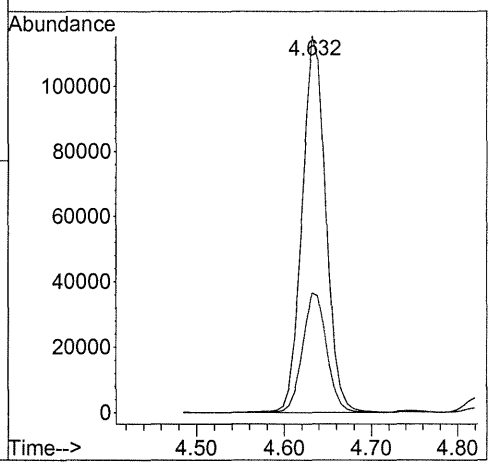
10/7/11

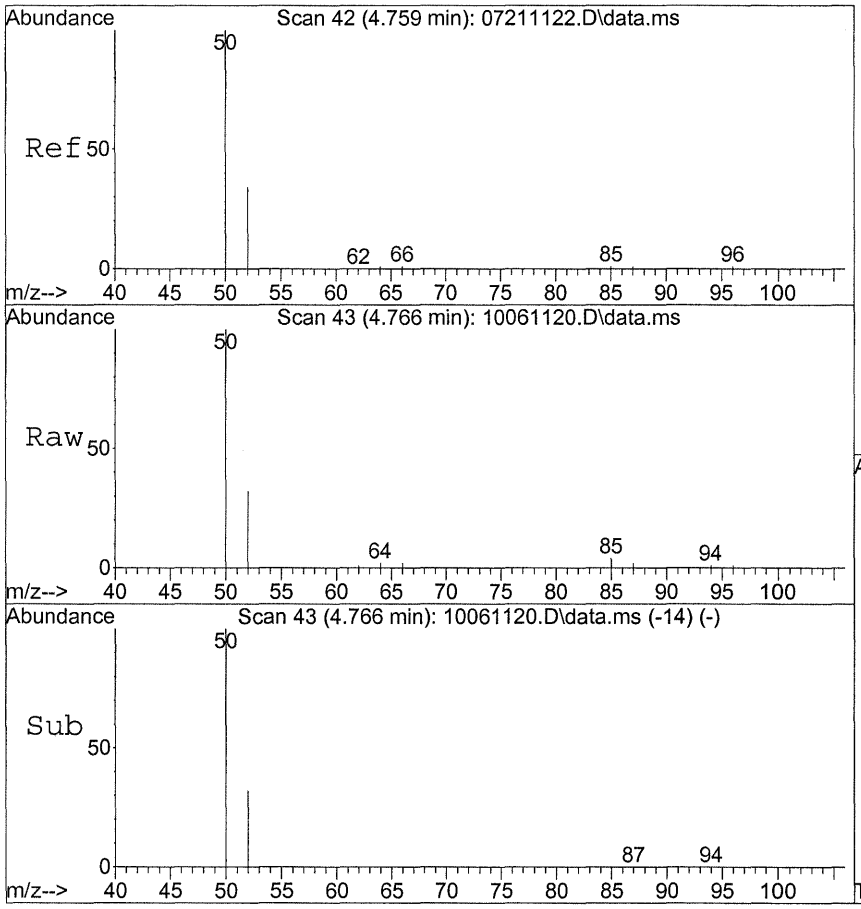


#2
Dichlorodifluoromethane (CFC
Concen: 1181.21 pg
RT: 4.63 min Scan# 23
Delta R.T. -0.014 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 85 Resp: 220282

Ion	Ratio	Lower	Upper
85	100		
87	32.2	13.3	53.3

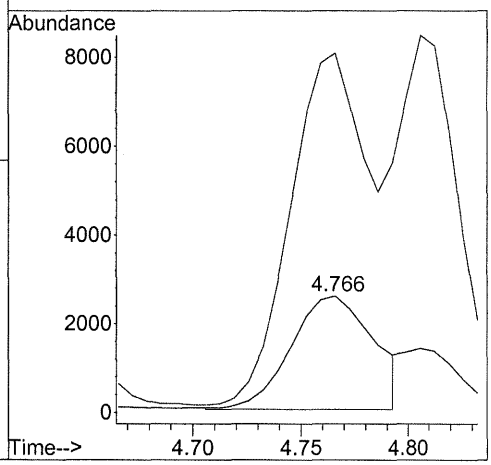


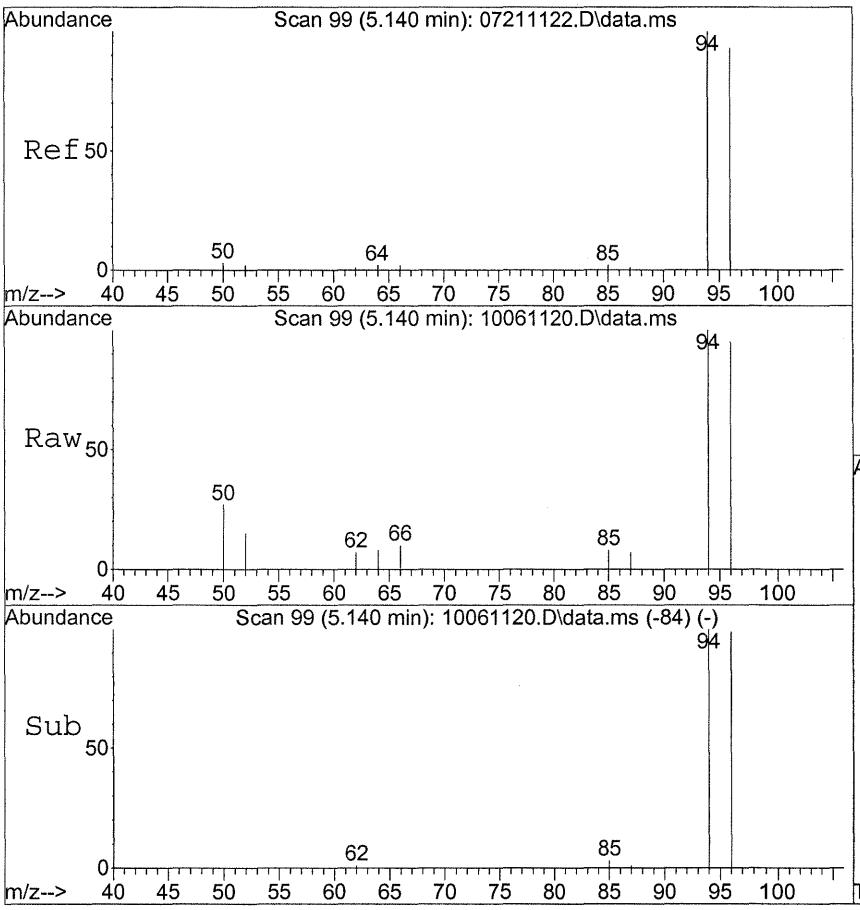


#3
Chloromethane
Concen: 147.14 pg m
RT: 4.77 min Scan# 43
Delta R.T. 0.007 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 52 Resp: 6767

Ion	Ratio	Lower	Upper
52	100		
50	288.9	285.3	325.3

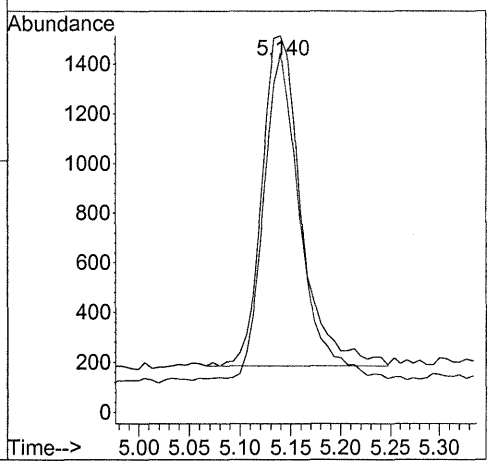


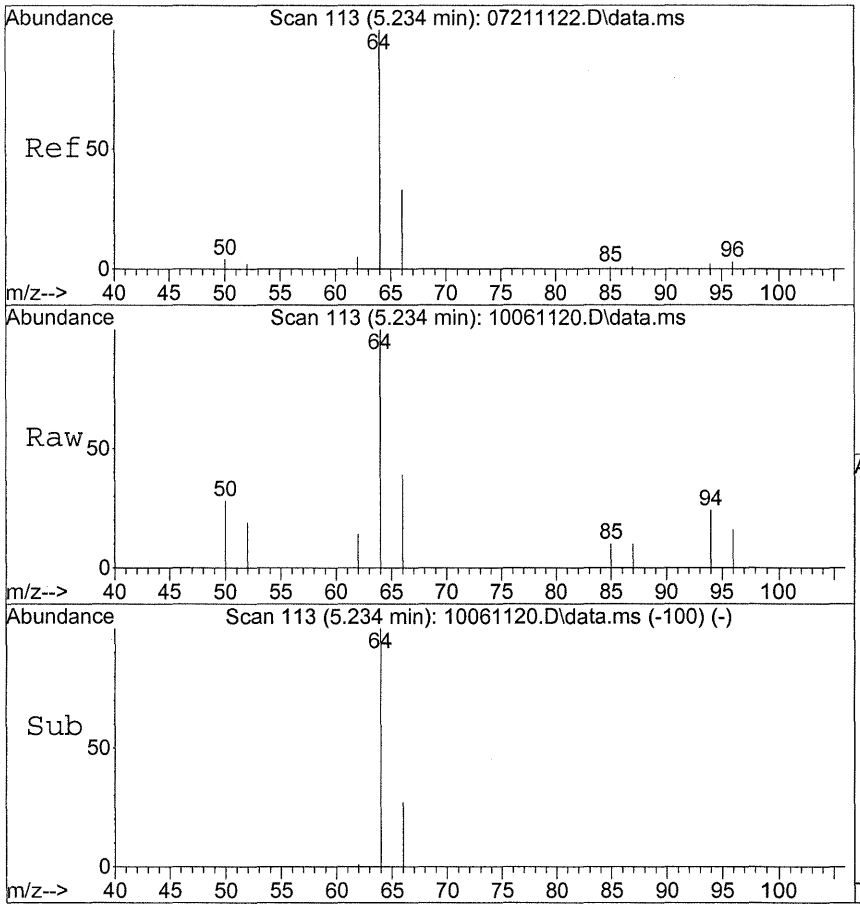


#5
Bromomethane
Concen: 48.79 pg
RT: 5.14 min Scan# 99
Delta R.T. 0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 94 Resp: 3595

Ion	Ratio	Lower	Upper
94	100		
96	94.4	74.2	111.4

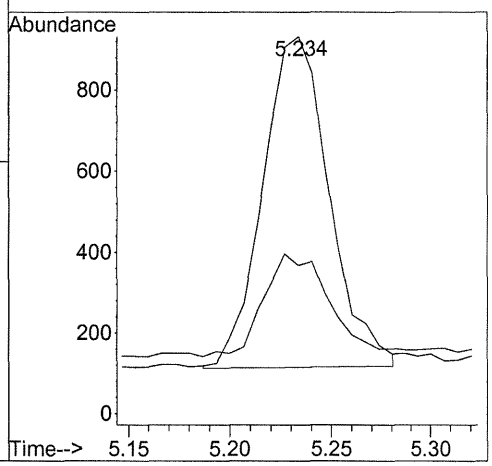


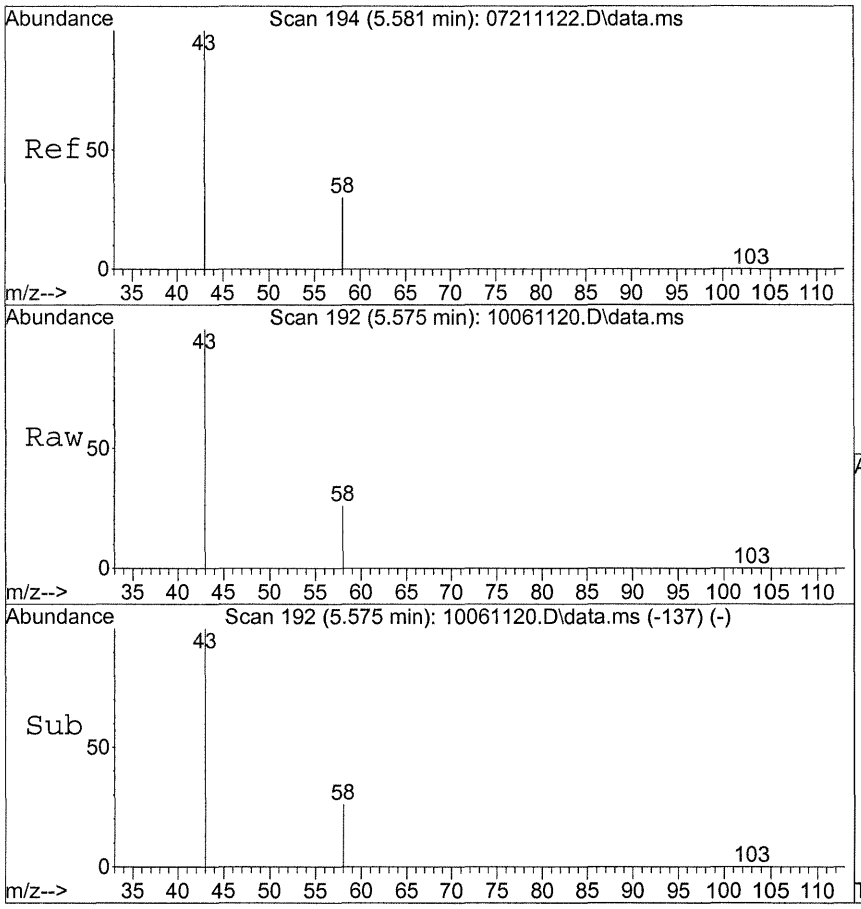


#6
Chloroethane
Concen: 21.75 pg m
RT: 5.23 min Scan# 113
Delta R.T. -0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 64 Resp: 1866

Ion	Ratio	Lower	Upper
64	100		
66	52.4	12.0	52.0#

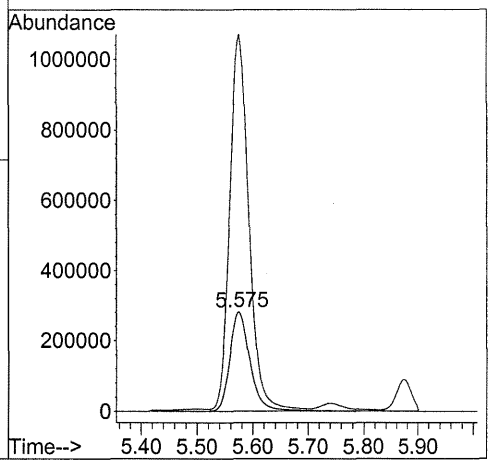


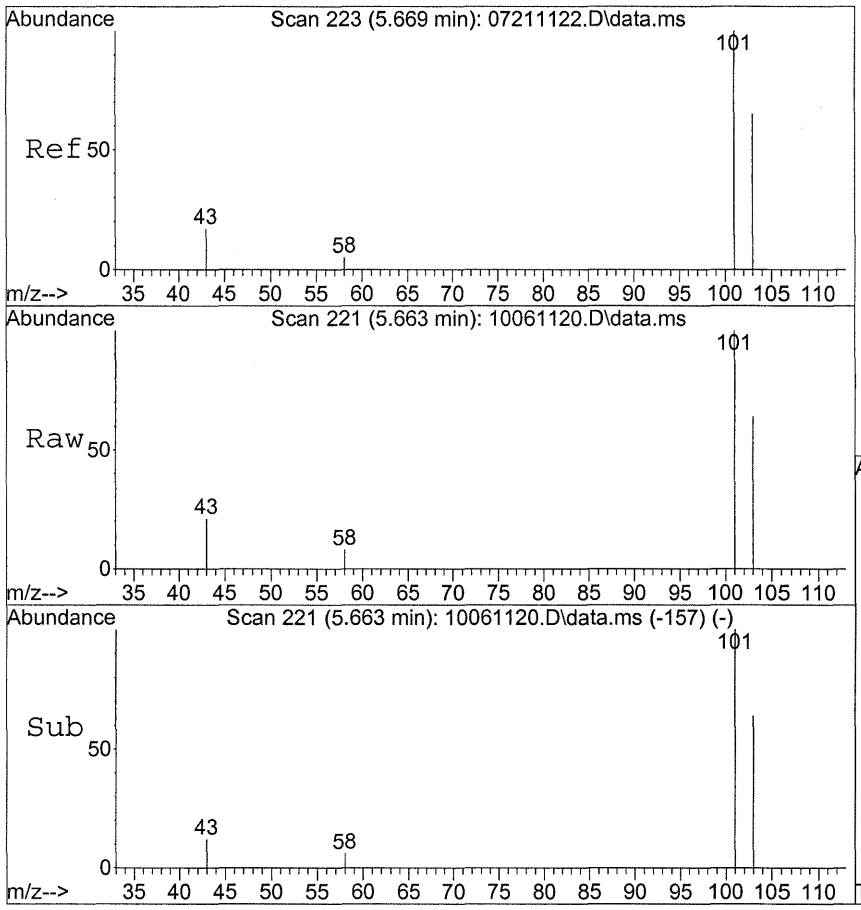


#7
Acetone
Concen: 9677.40 pg
RT: 5.58 min Scan# 192
Delta R.T. -0.006 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 58 Resp: 708583

Ion	Ratio	Lower	Upper
58	100		
43	356.0	307.2	347.2#

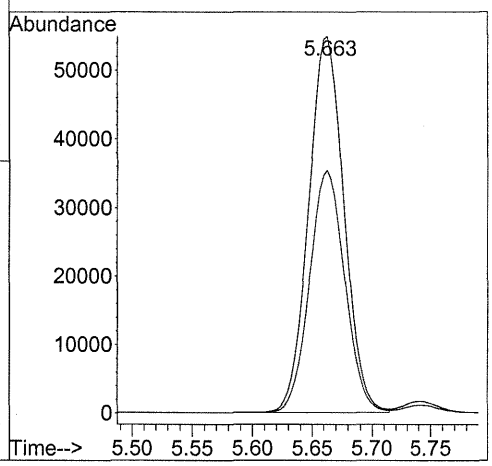


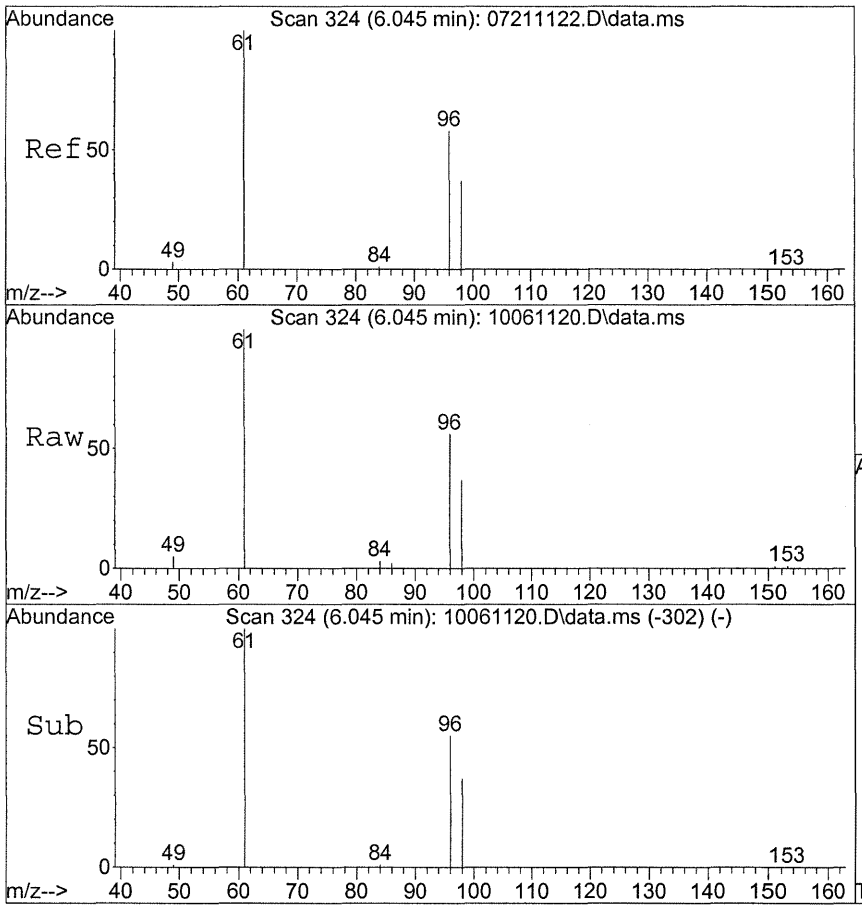


#8
Trichlorofluoromethane
Concen: 648.31 pg
RT: 5.66 min Scan# 221
Delta R.T. -0.006 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion:101 Resp: 113201

Ion	Ratio	Lower	Upper
101	100		
103	64.2	50.6	75.8

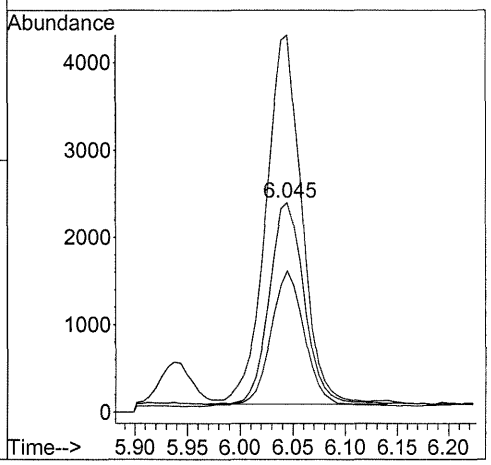


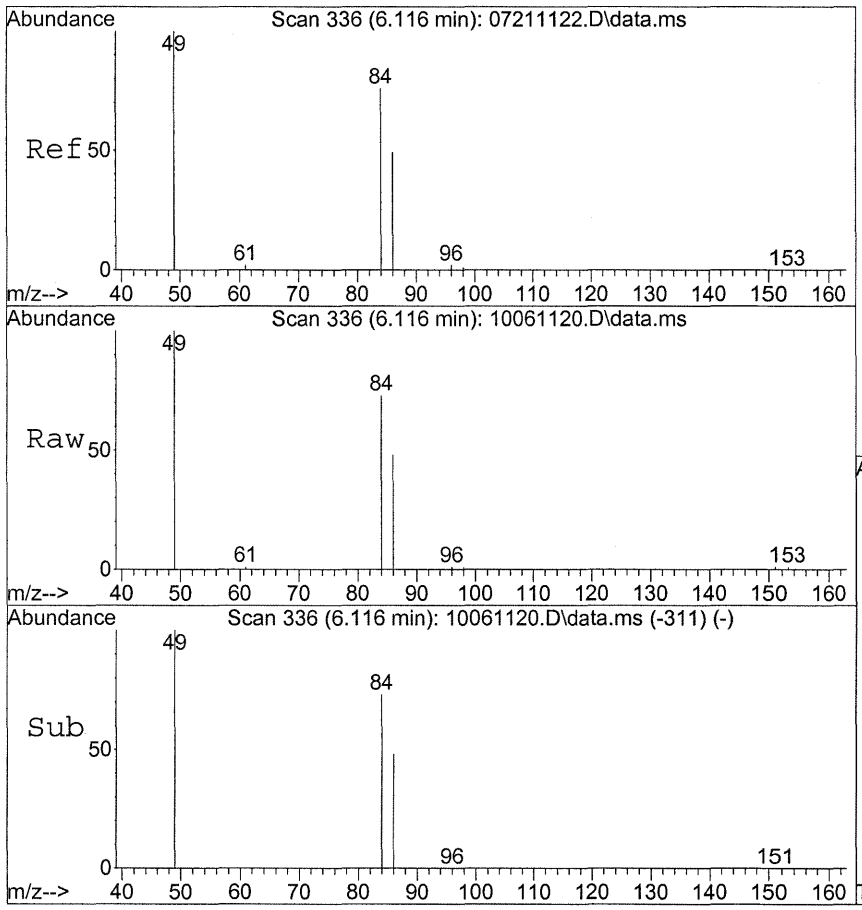


#9
1,1-Dichloroethene
Concen: 63.97 pg
RT: 6.04 min Scan# 324
Delta R.T. -0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 96 Resp: 5320

Ion	Ratio	Lower	Upper
96	100		
98	66.0	43.8	83.8
61	182.4	145.1	185.1

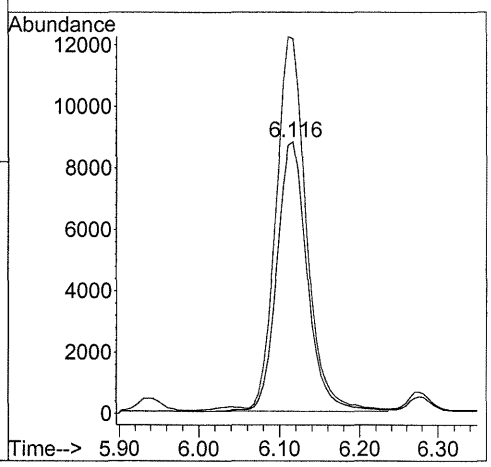


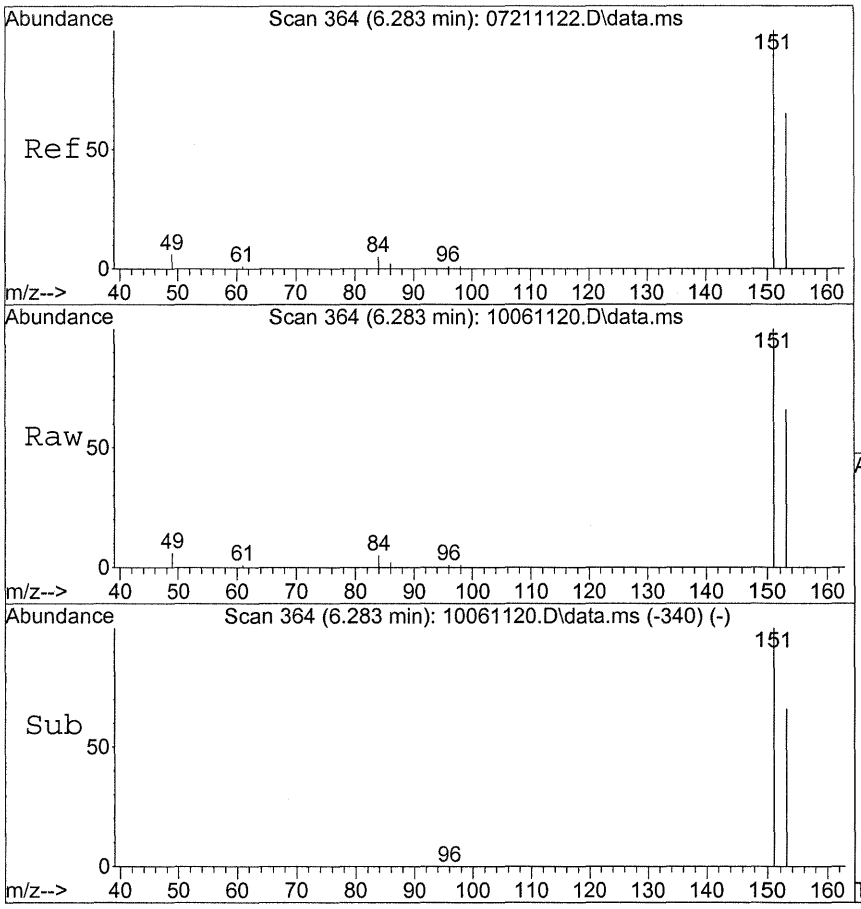


#10
Methylene Chloride
Concen: 231.26 pg
RT: 6.12 min Scan# 336
Delta R.T. 0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 84 Resp: 22977

Ion	Ratio	Lower	Upper
84	100		
49	135.1	107.9	147.9

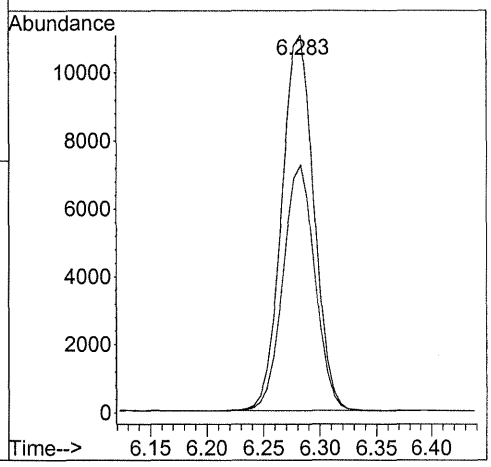


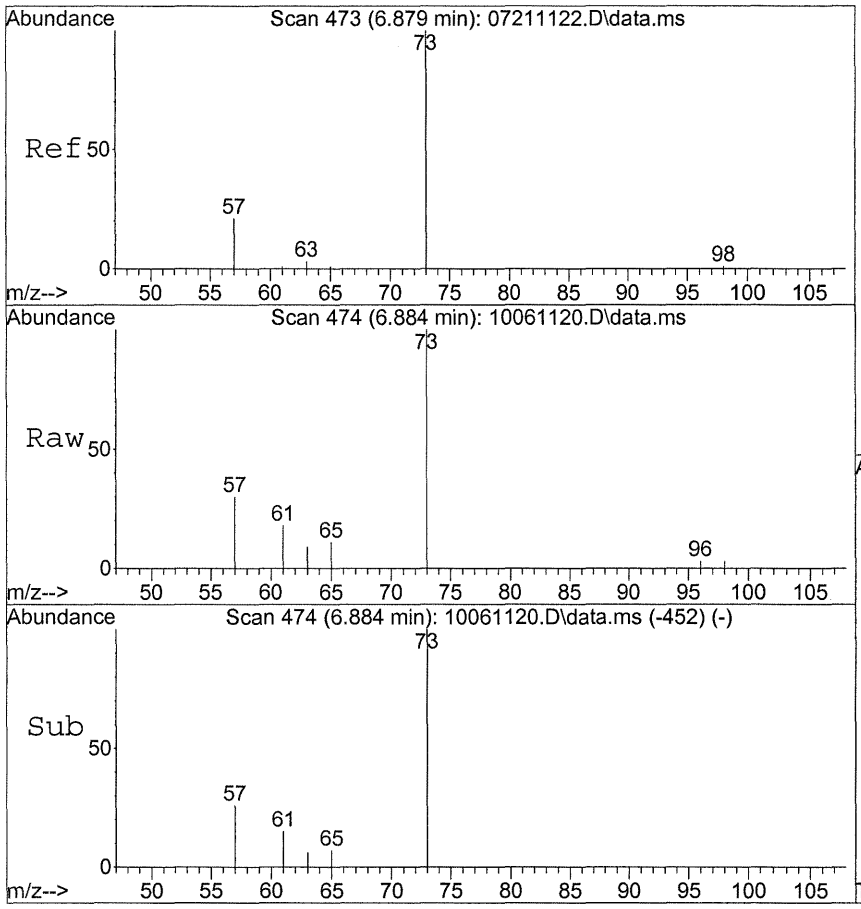


#11
Trichlorotrifluoroethane
Concen: 273.35 pg
RT: 6.28 min Scan# 364
Delta R.T. -0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion:151 Resp: 21954

Ion	Ratio	Lower	Upper
151	100		
153	64.8	44.1	84.1

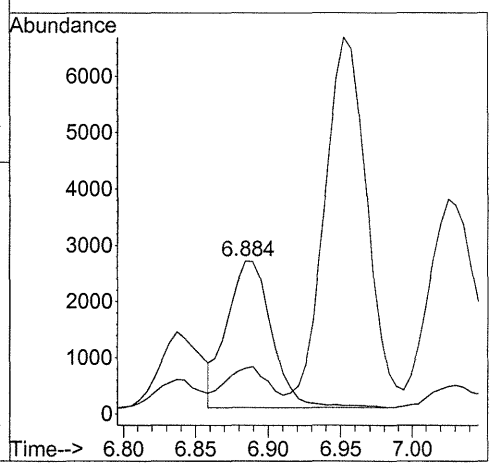


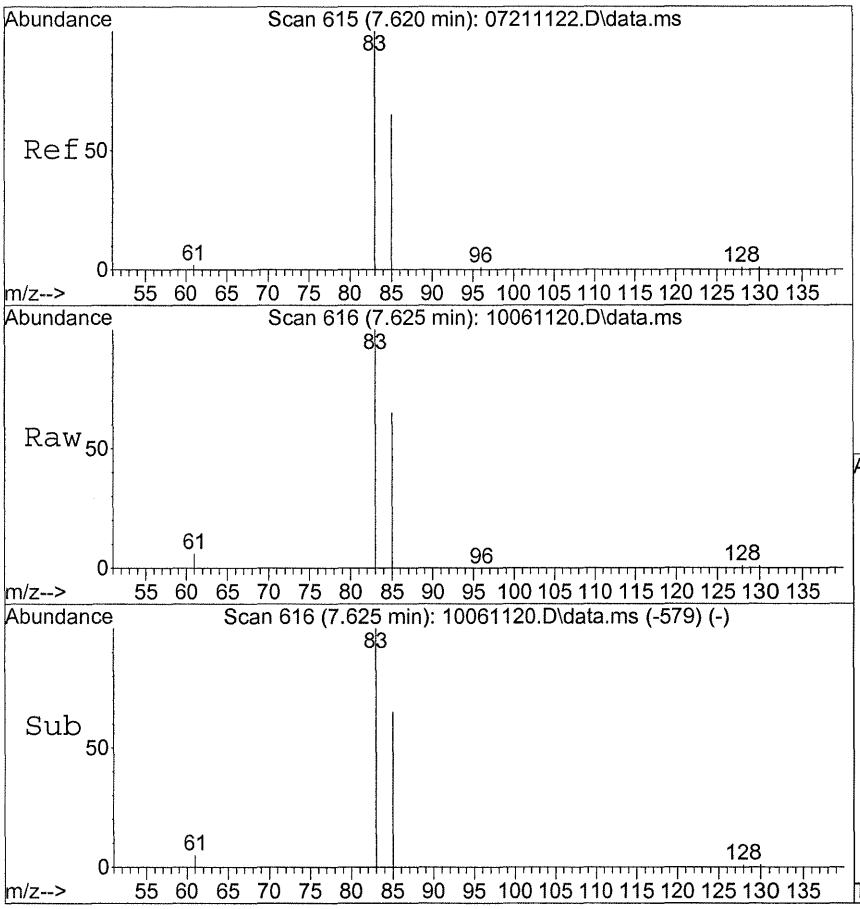


#14
Methyl tert-Butyl Ether
Concen: 18.08 pg
RT: 6.88 min Scan# 474
Delta R.T. 0.005 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 73 Resp: 5567

Ion	Ratio	Lower	Upper
73	100		
57	17.6	1.2	41.2

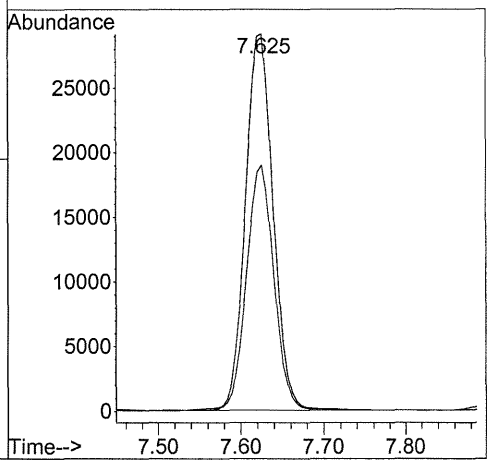


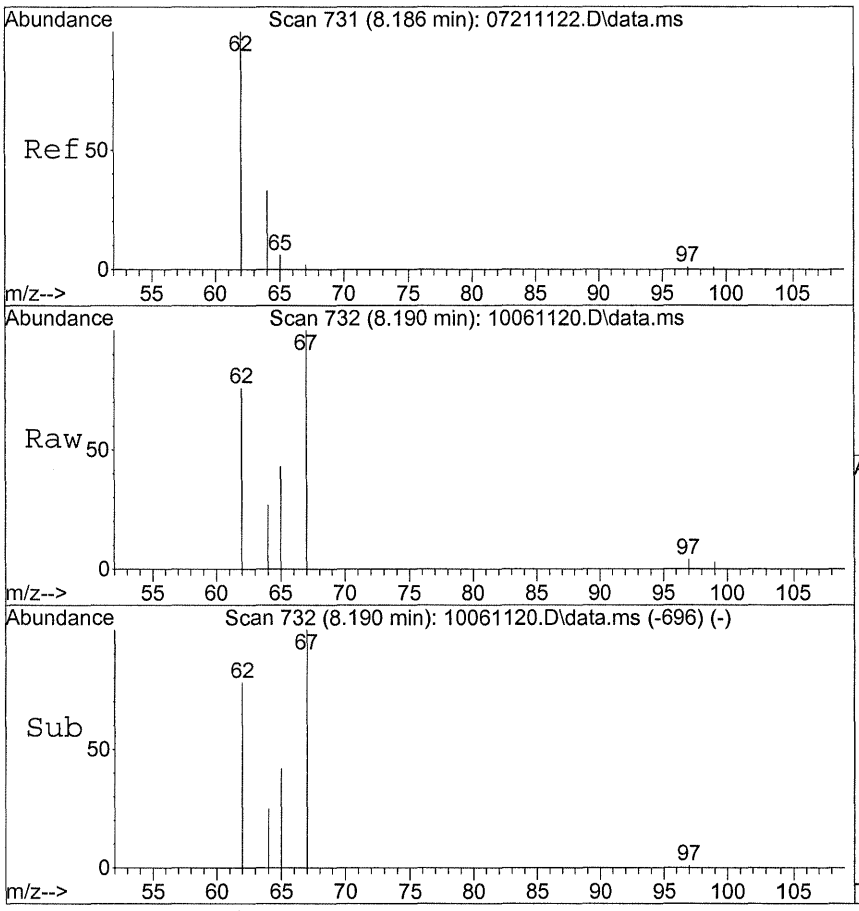


#16
Chloroform
Concen: 380.01 pg
RT: 7.63 min Scan# 616
Delta R.T. 0.005 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 83 Resp: 67060

Ion	Ratio	Lower	Upper
83	100		
85	64.9	44.4	84.4

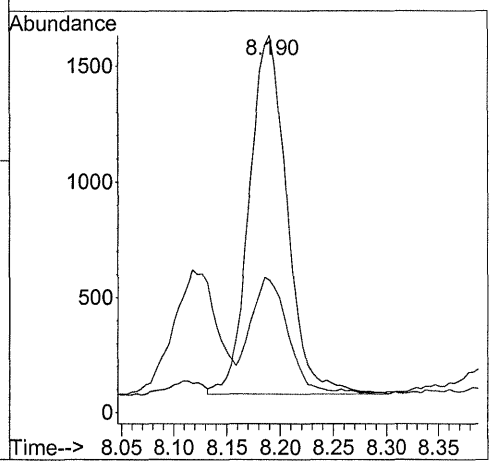


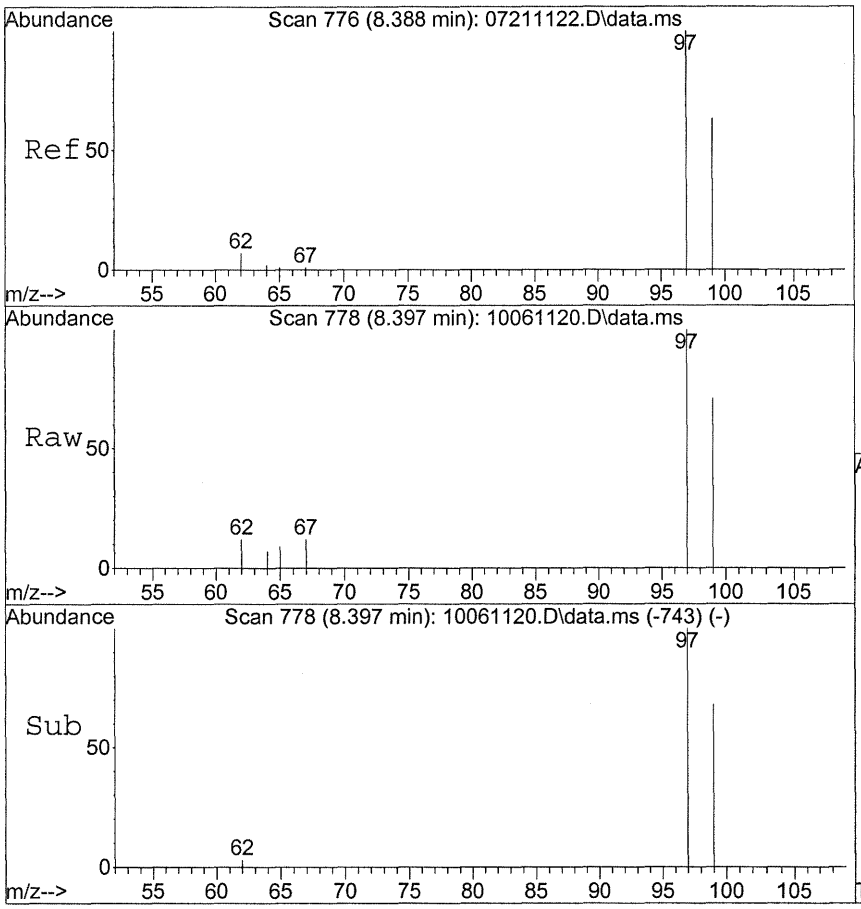


#18
1,2-Dichloroethane
Concen: 26.93 pg
RT: 8.19 min Scan# 732
Delta R.T. 0.004 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 62 Resp: 3814

Ion	Ratio	Lower	Upper
62	100		
64	30.9	10.3	50.3

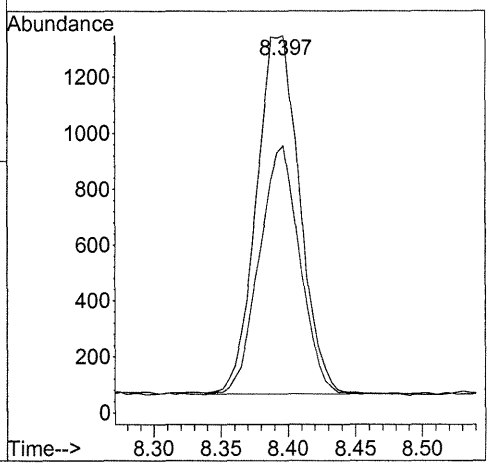


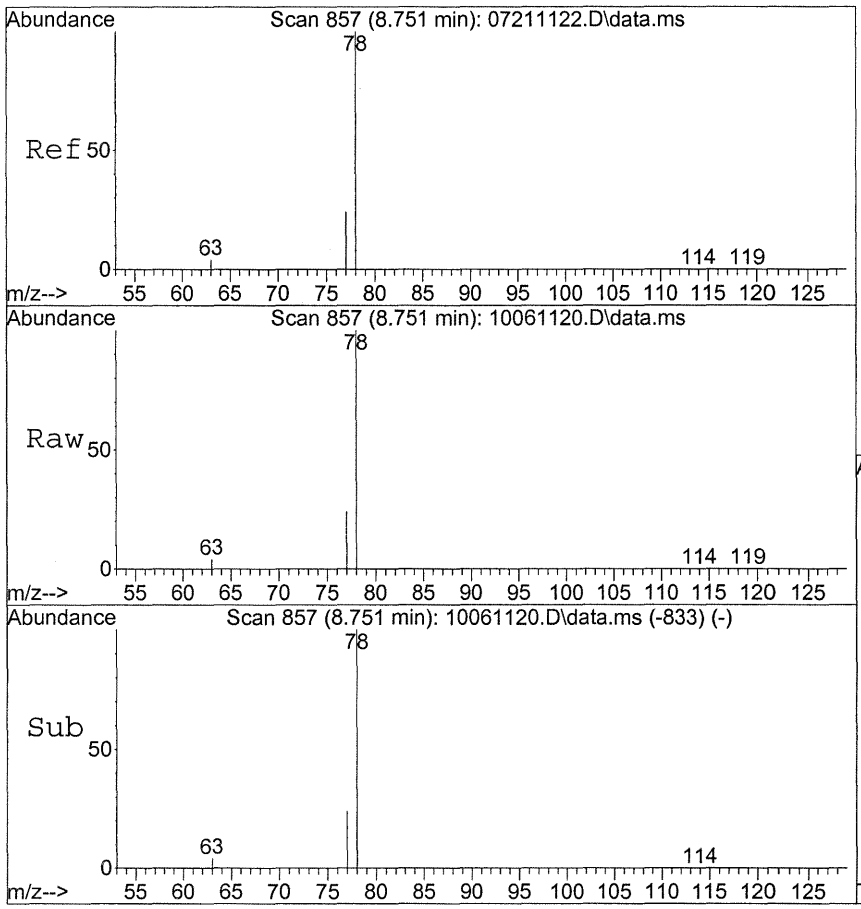


#19
1,1,1-Trichloroethane
Concen: 18.24 pg
RT: 8.40 min Scan# 778
Delta R.T. 0.009 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 97 Resp: 2854

Ion	Ratio	Lower	Upper
97	100		
99	65.8	45.2	85.2

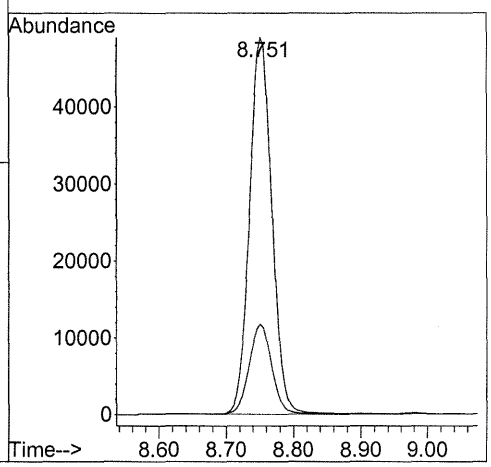


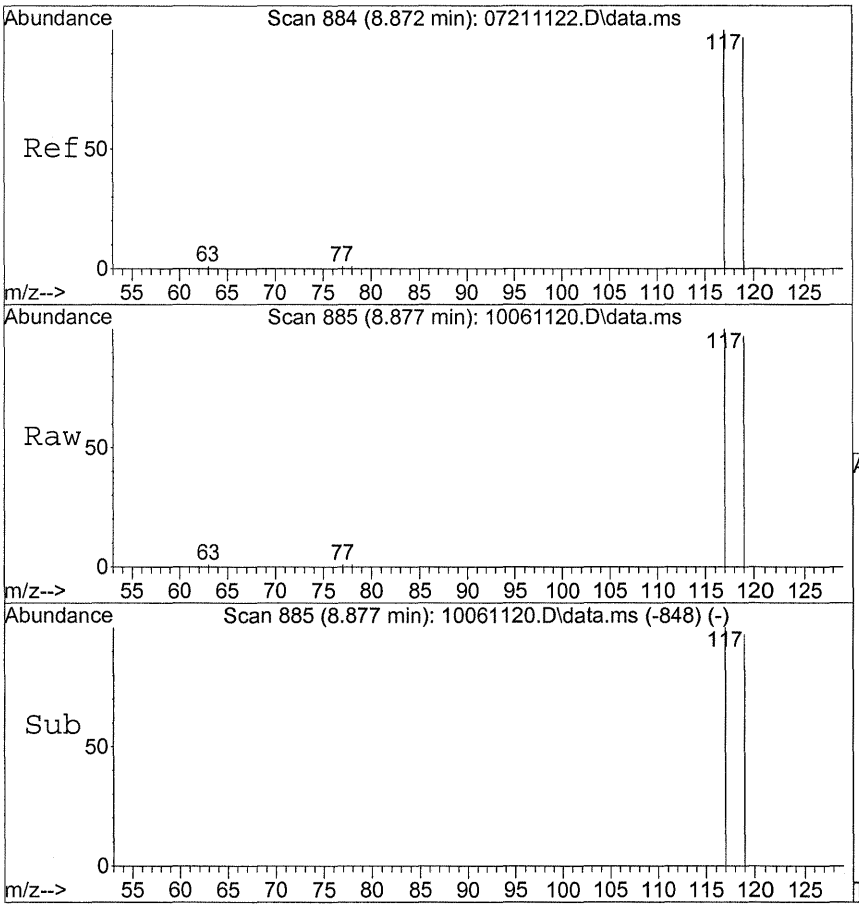


#20
Benzene
Concen: 275.07 pg
RT: 8.75 min Scan# 857
Delta R.T. 0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 78 Resp: 112961

Ion	Ratio	Lower	Upper
78	100		
77	24.1	4.0	44.0

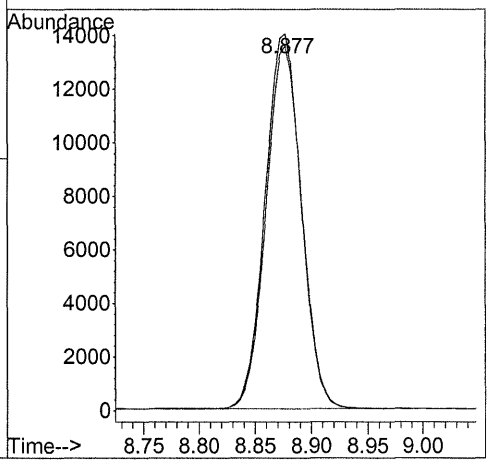


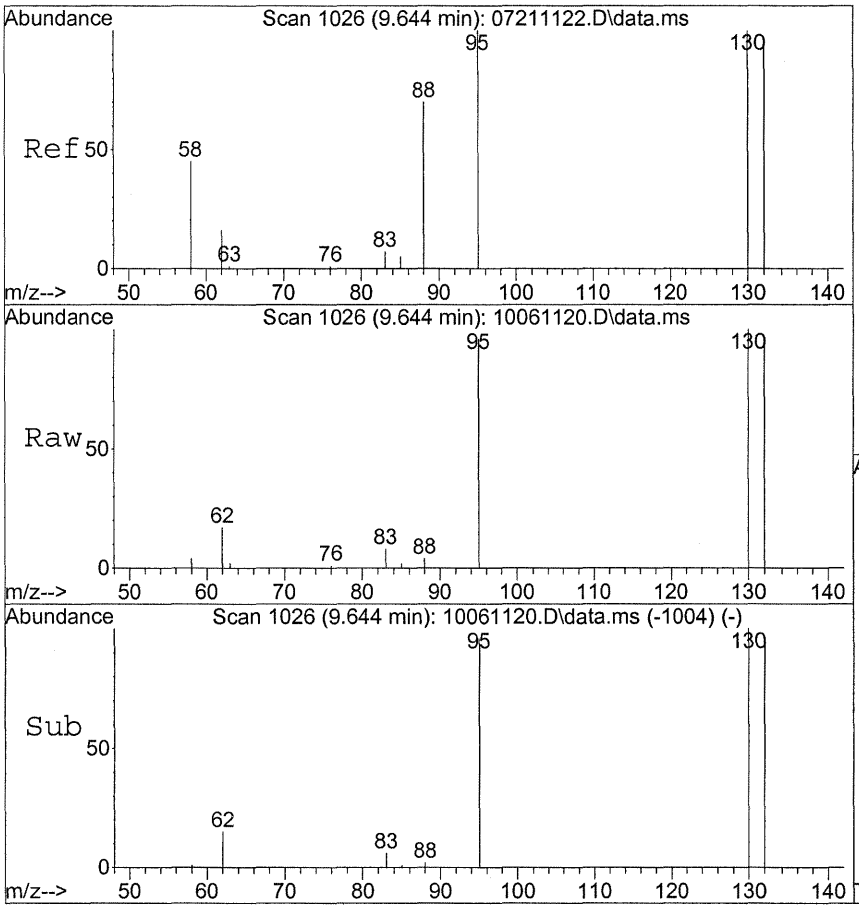


#21
Carbon Tetrachloride
Concen: 253.04 pg
RT: 8.88 min Scan# 885
Delta R.T. 0.005 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion:117 Resp: 31004

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.5	117.5

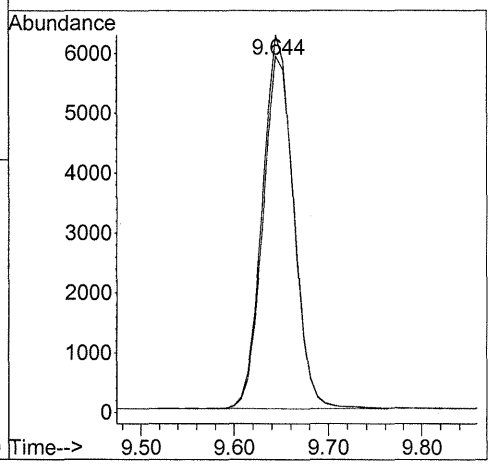


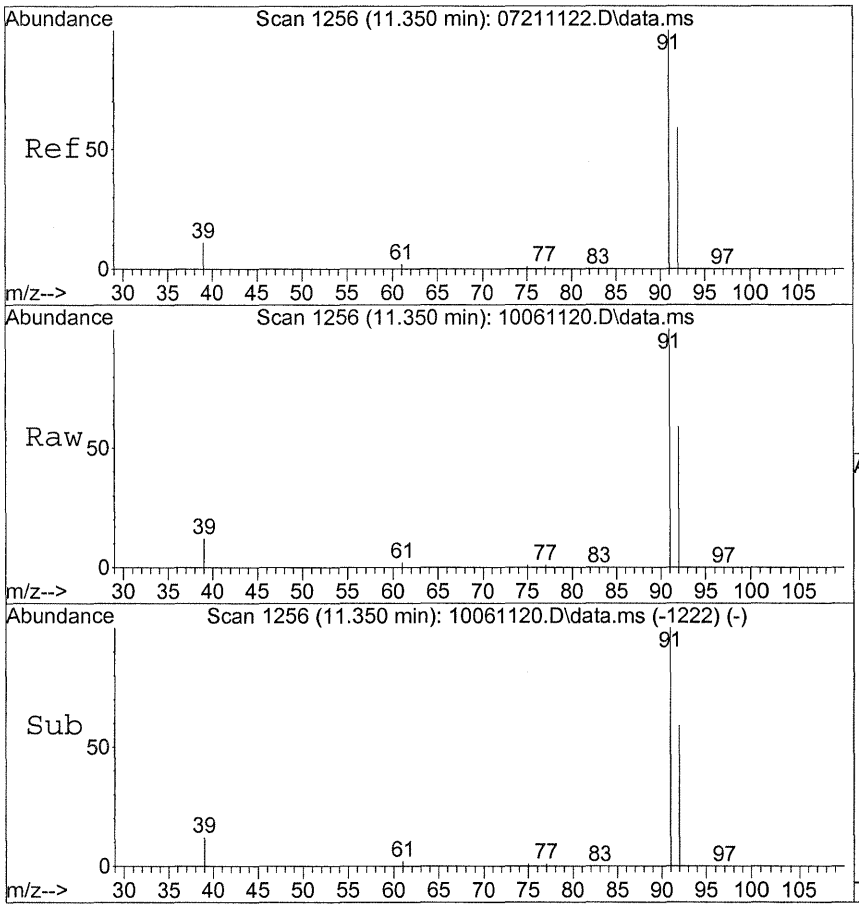


#25
Trichloroethene
Concen: 135.34 pg
RT: 9.64 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion:130 Resp: 14172

Ion	Ratio	Lower	Upper
130	100		
132	95.5	74.7	114.7

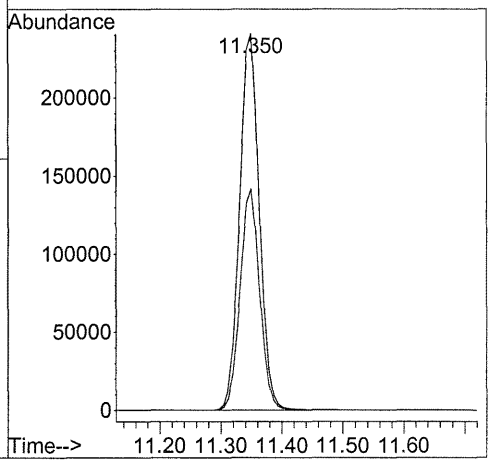


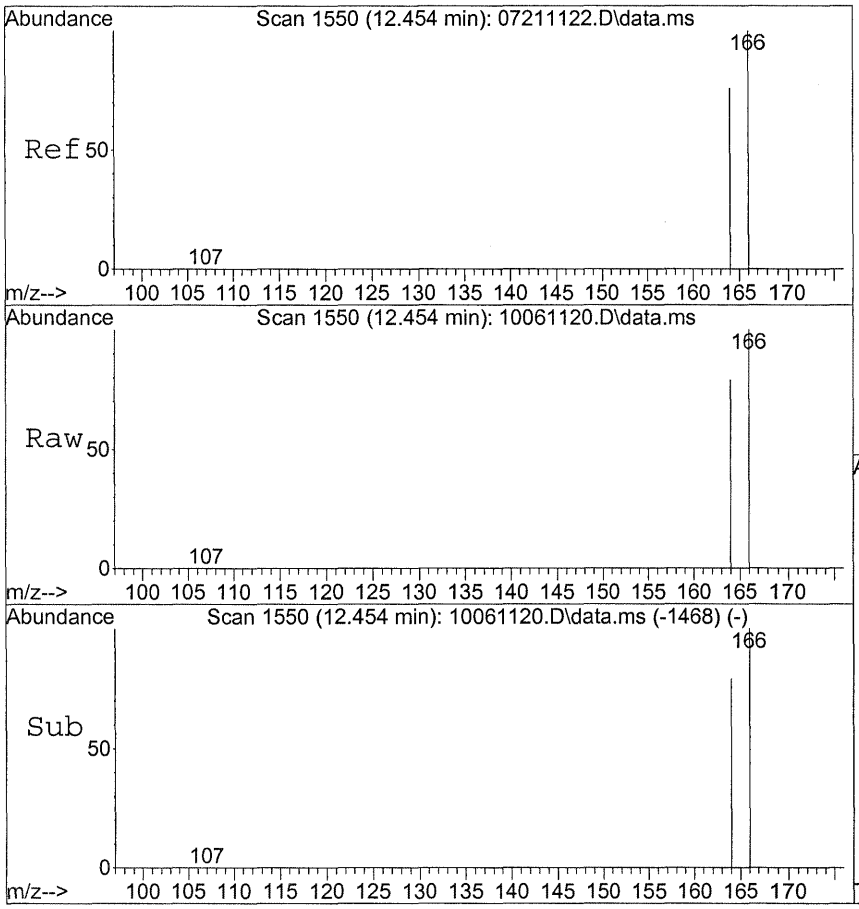


#31
Toluene
Concen: 1351.47 pg
RT: 11.35 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 91 Resp: 542467

Ion	Ratio	Lower	Upper
91	100		
92	58.4	38.2	78.2

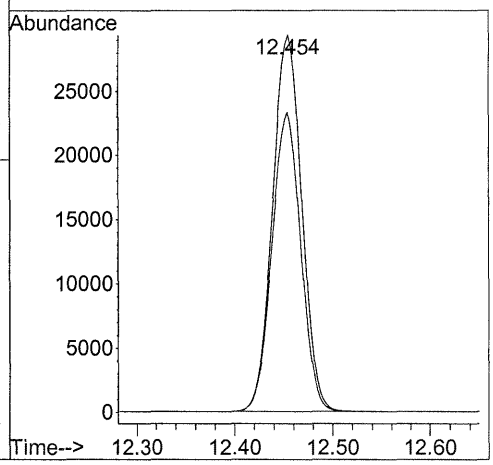


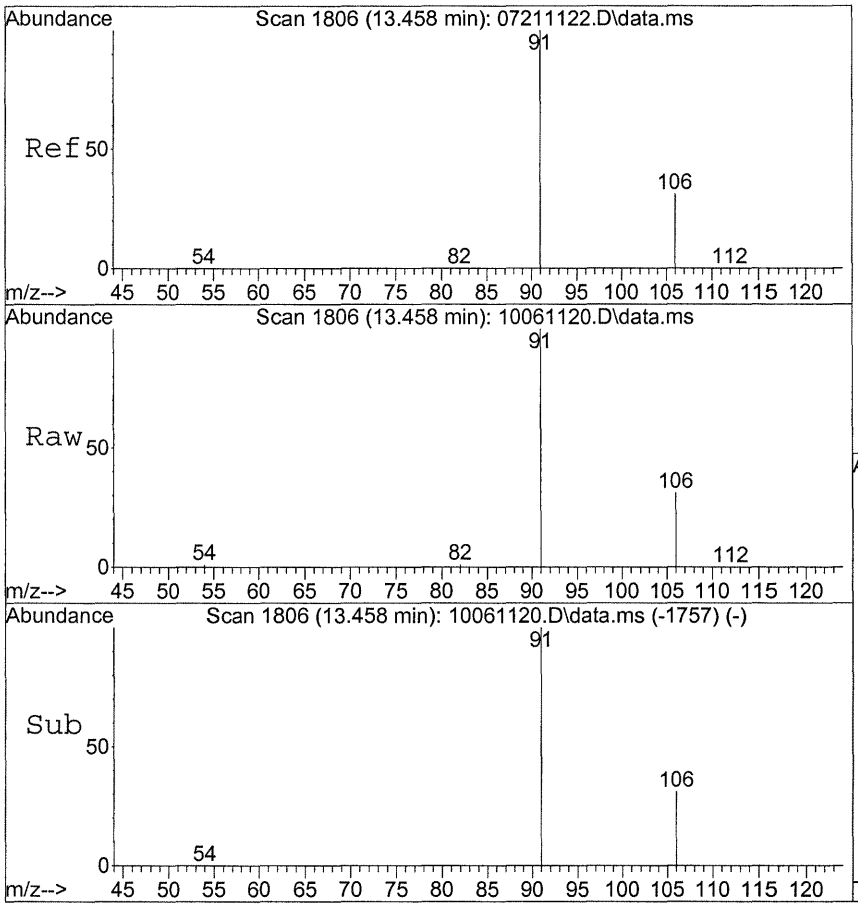


#33
Tetrachloroethene
Concen: 540.00 pg
RT: 12.45 min Scan# 1550
Delta R.T. 0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion:166 Resp: 60656

Ion	Ratio	Lower	Upper
166	100		
164	78.5	58.2	98.2

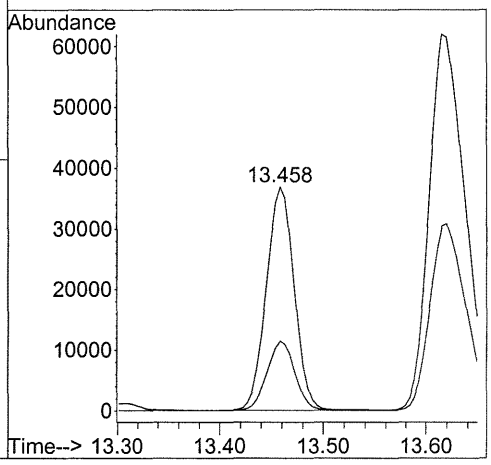


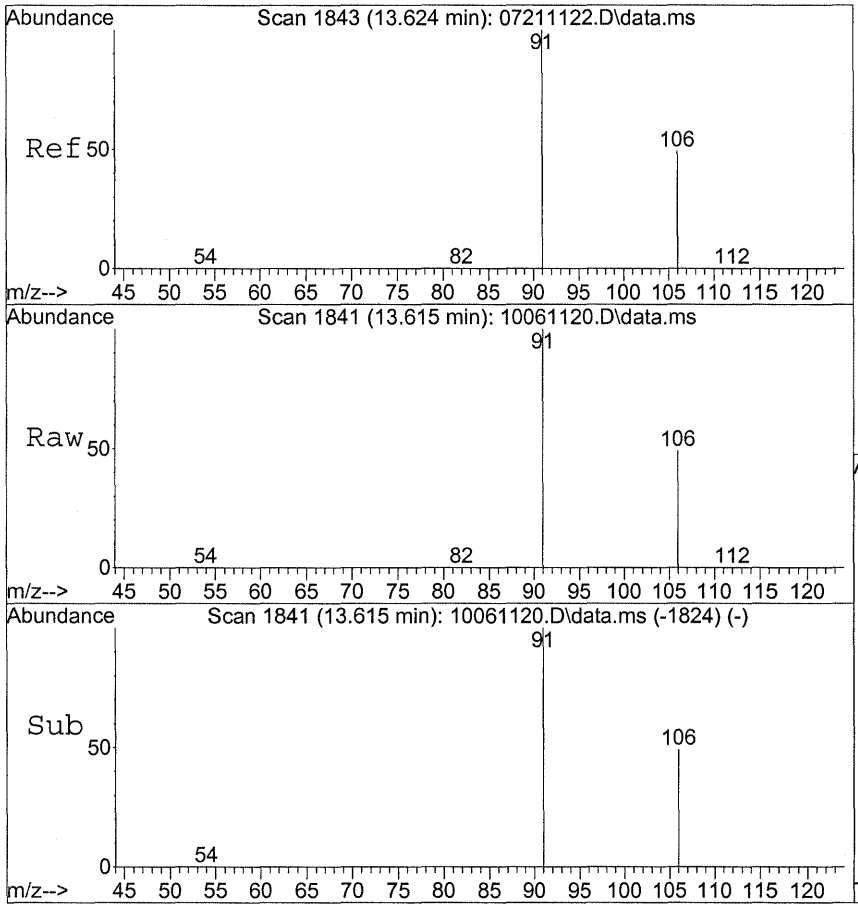


#36
Ethylbenzene
Concen: 153.46 pg
RT: 13.46 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 91 Resp: 68598

Ion	Ratio	Lower	Upper
91	100		
106	30.8	11.9	51.9

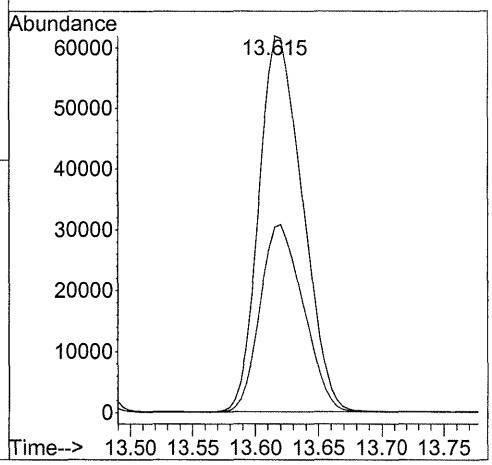


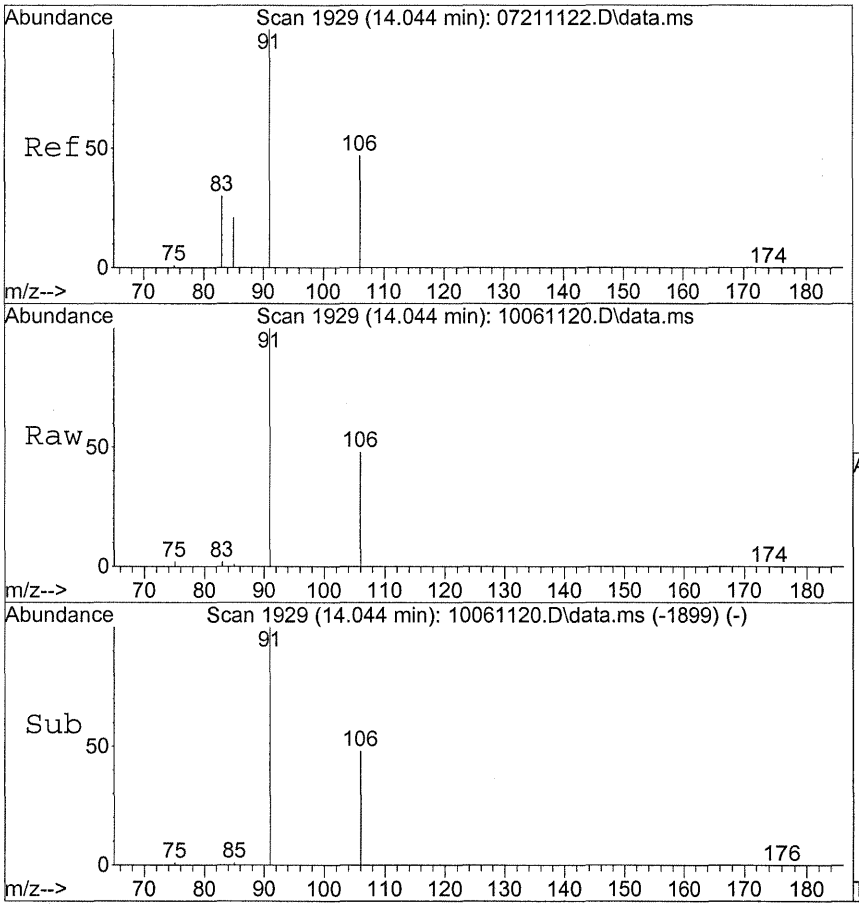


#37
m,p-Xylene
Concen: 405.40 pg
RT: 13.62 min Scan# 1841
Delta R.T. -0.009 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 91 Resp: 147539

Ion	Ratio	Lower	Upper
91	100		
106	49.5	30.3	70.3

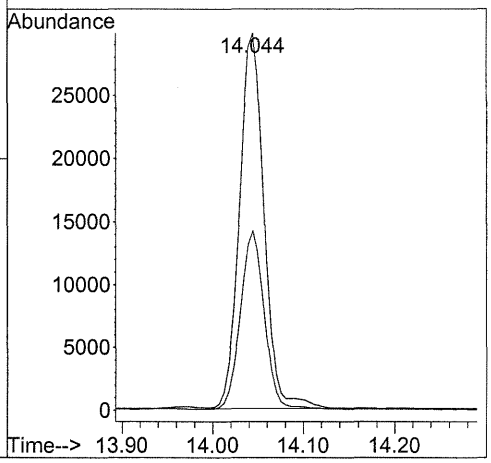


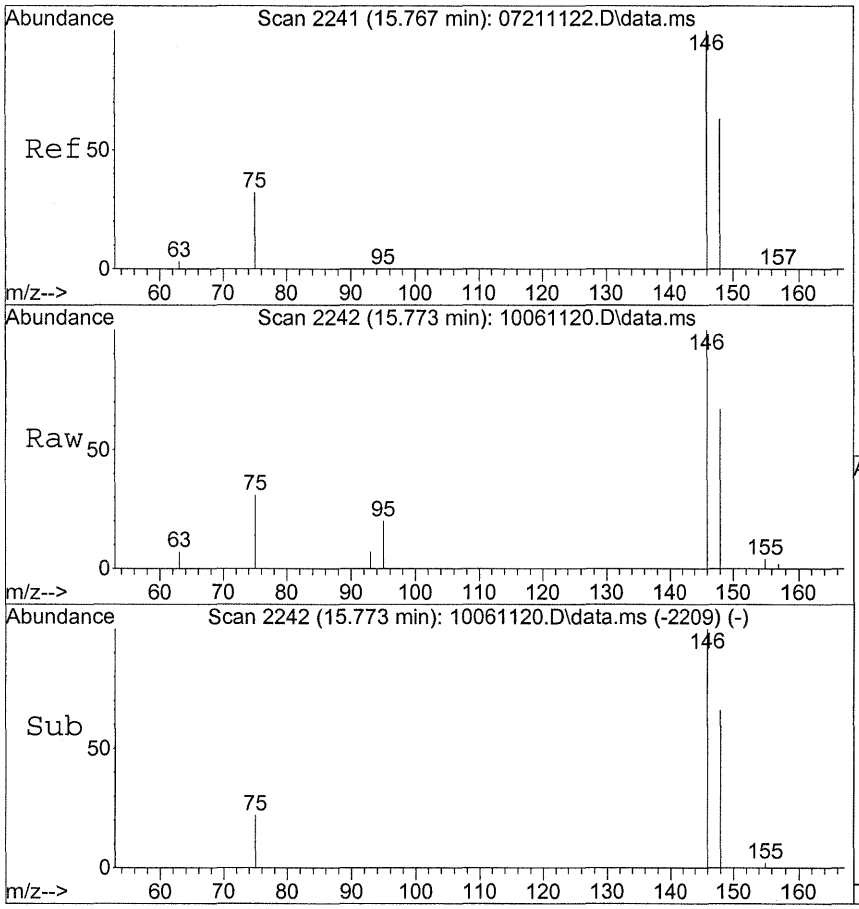


#38
o-Xylene
Concen: 153.25 pg
RT: 14.04 min Scan# 1929
Delta R.T. 0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion: 91 Resp: 56896

Ion	Ratio	Lower	Upper
91	100		
106	46.3	28.4	68.4

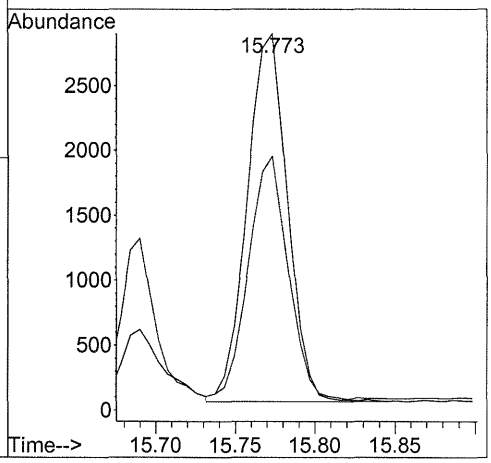


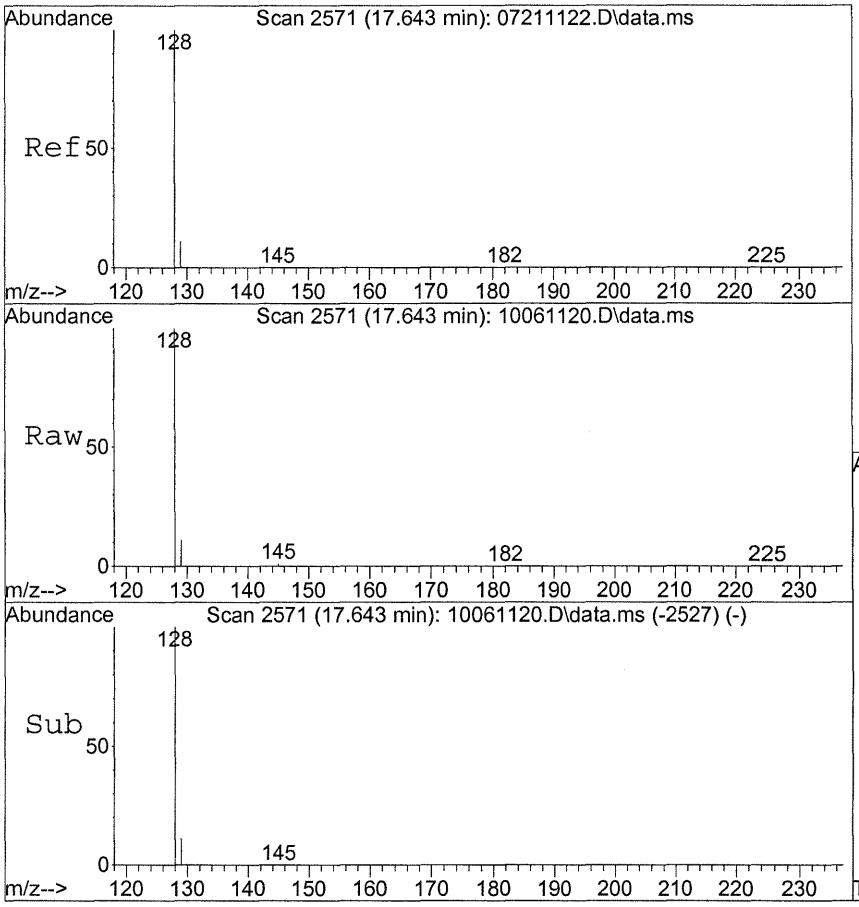


#42
1,4-Dichlorobenzene
Concen: 22.61 pg
RT: 15.77 min Scan# 2242
Delta R.T. 0.006 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion:146 Resp: 5010

Ion	Ratio	Lower	Upper
146	100		
148	64.8	42.9	82.9

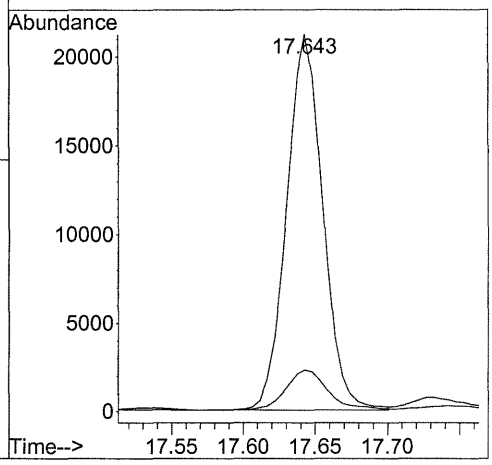




#45
Naphthalene
Concen: 67.93 pg
RT: 17.64 min Scan# 2571
Delta R.T. 0.000 min
Lab File: 10061120.D
Acq: 6 Oct 2011 17:54

Tgt Ion:128 Resp: 37009

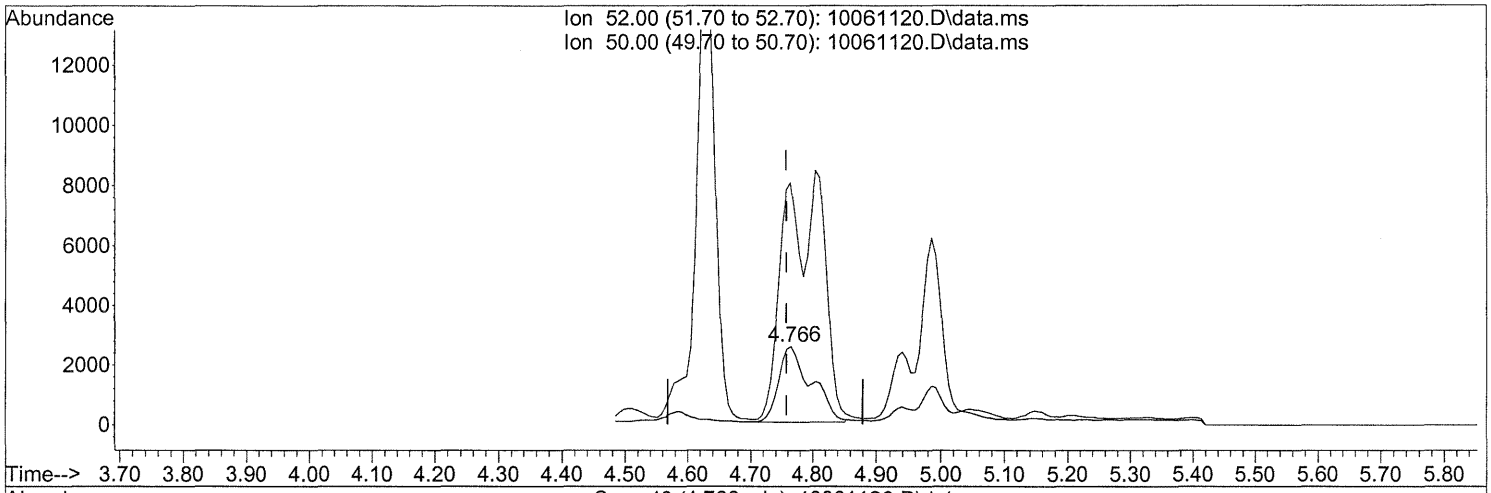
Ion	Ratio	Lower	Upper
128	100		
129	12.3	0.0	30.9

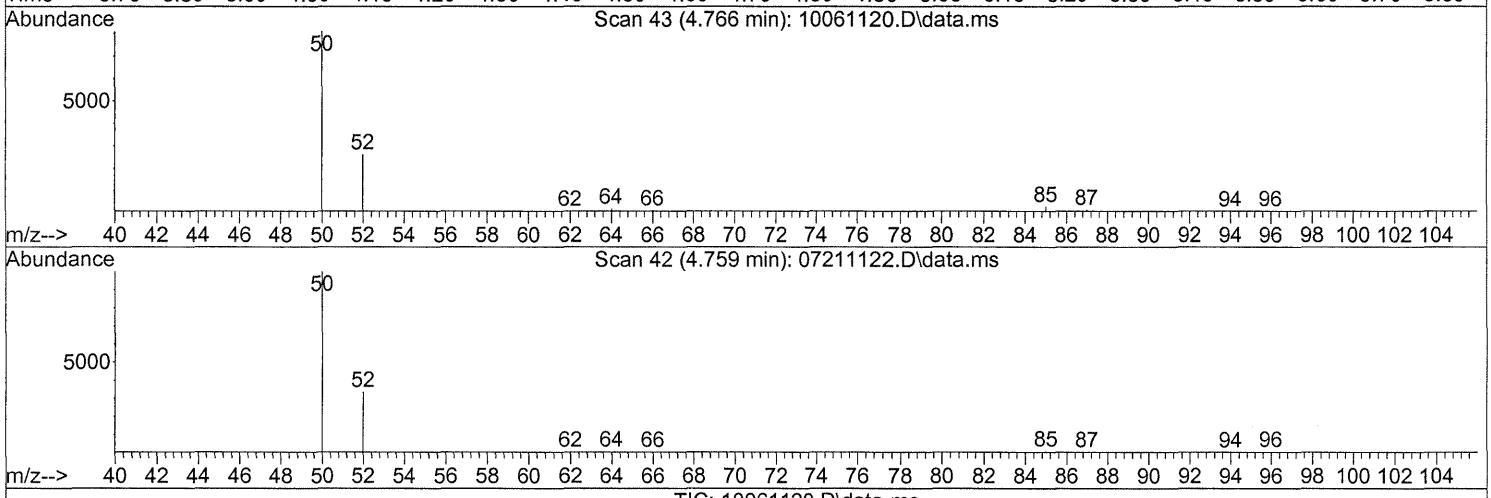


Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration





TIC: 10061120.D\data.ms

(3) Chloromethane (T)

4.766min (+0.007) 200.37pg

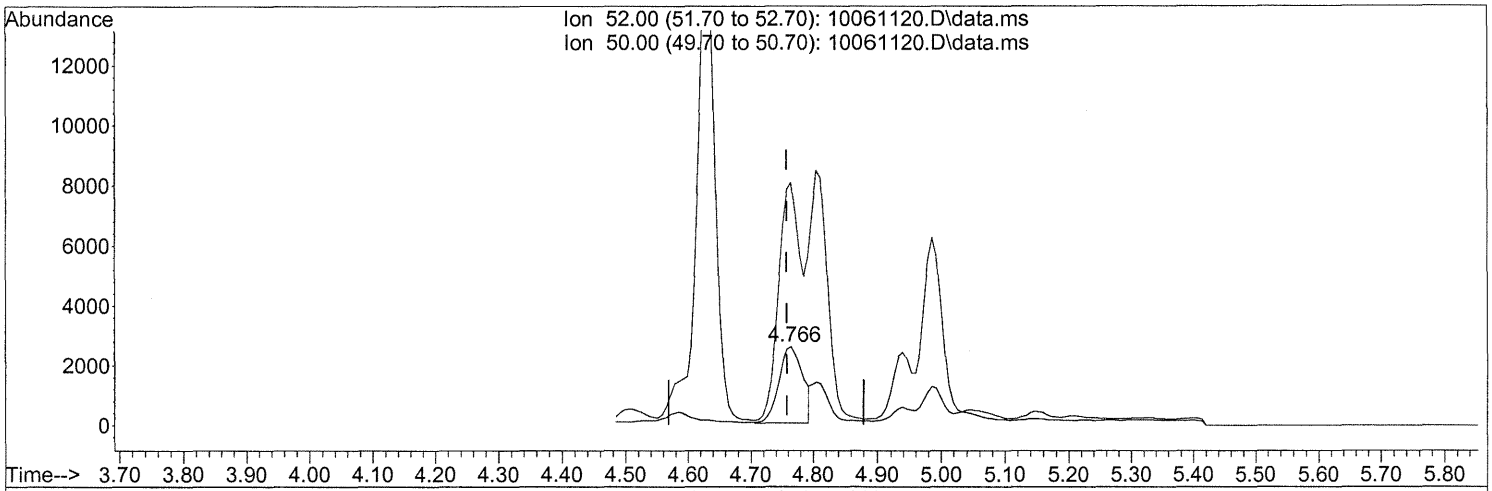
response 9215

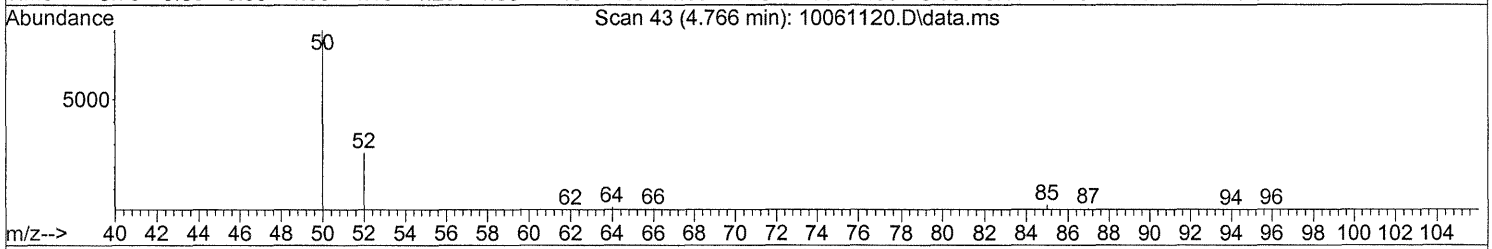
Ion	Exp%	Act%
52.00	100	100
50.00	305.30	212.18#
0.00	0.00	0.00
0.00	0.00	0.00

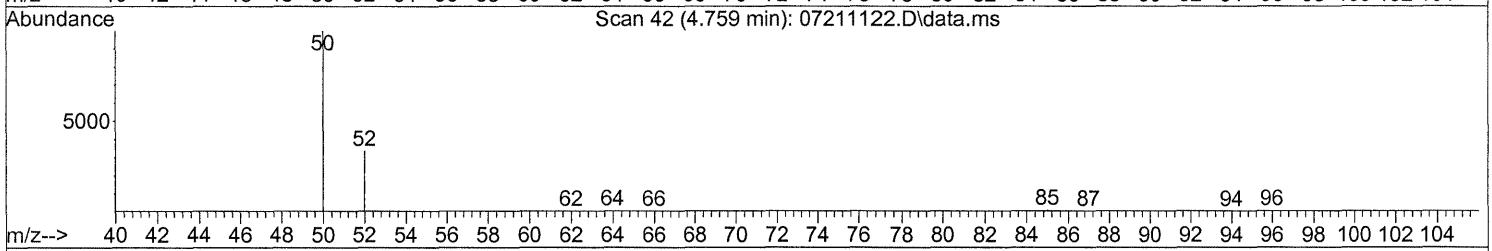
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061120.D\data.ms

(3) Chloromethane (T)

4.766min (+0.007) 147.14pg m

response 6767

Ion	Exp%	Act%
52.00	100	100
50.00	305.30	288.93
0.00	0.00	0.00
0.00	0.00	0.00

IPC

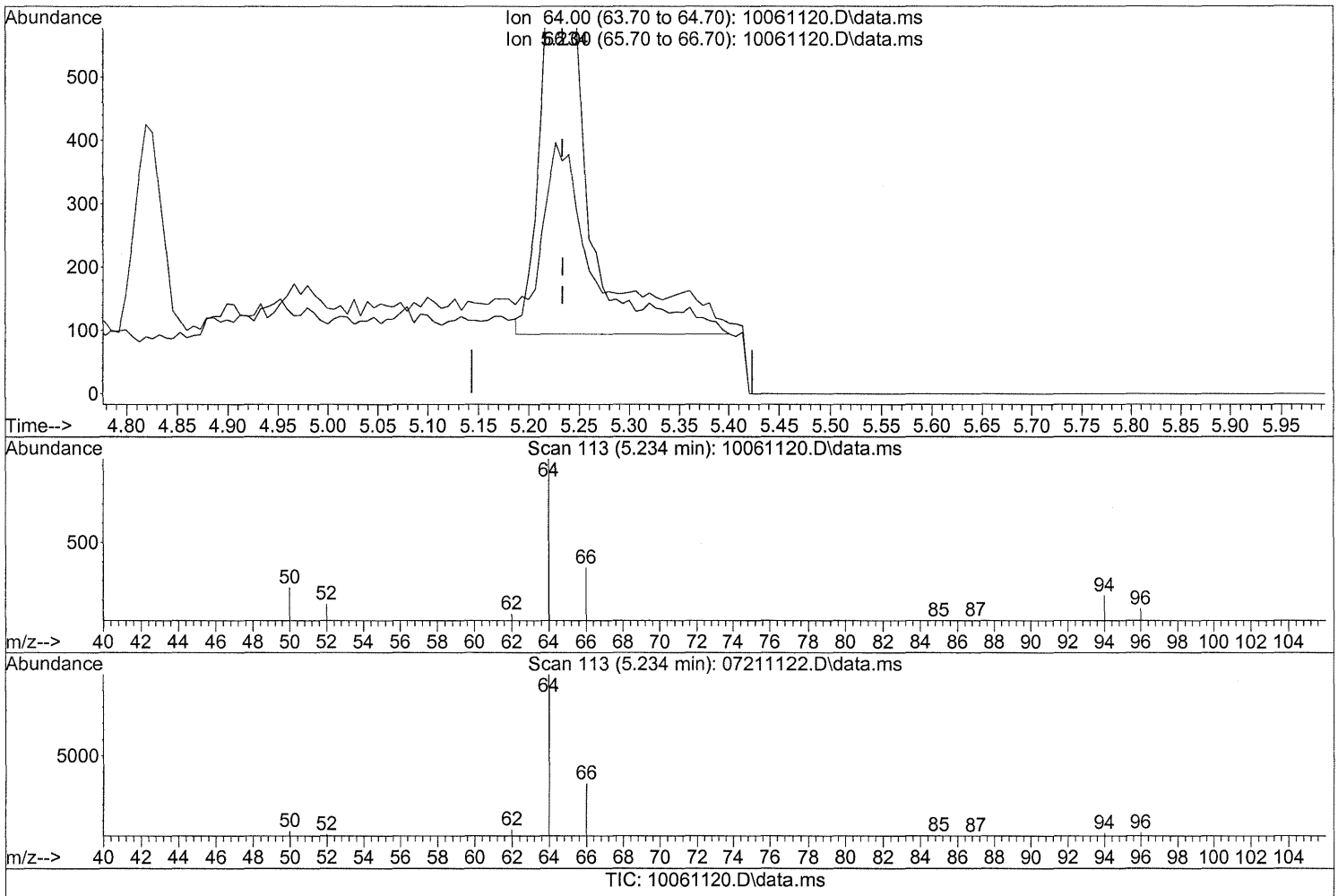
10/7/11

10/7/11

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061120.D\data.ms

(6) Chloroethane (T)

5.234min (-0.000) 25.91pg

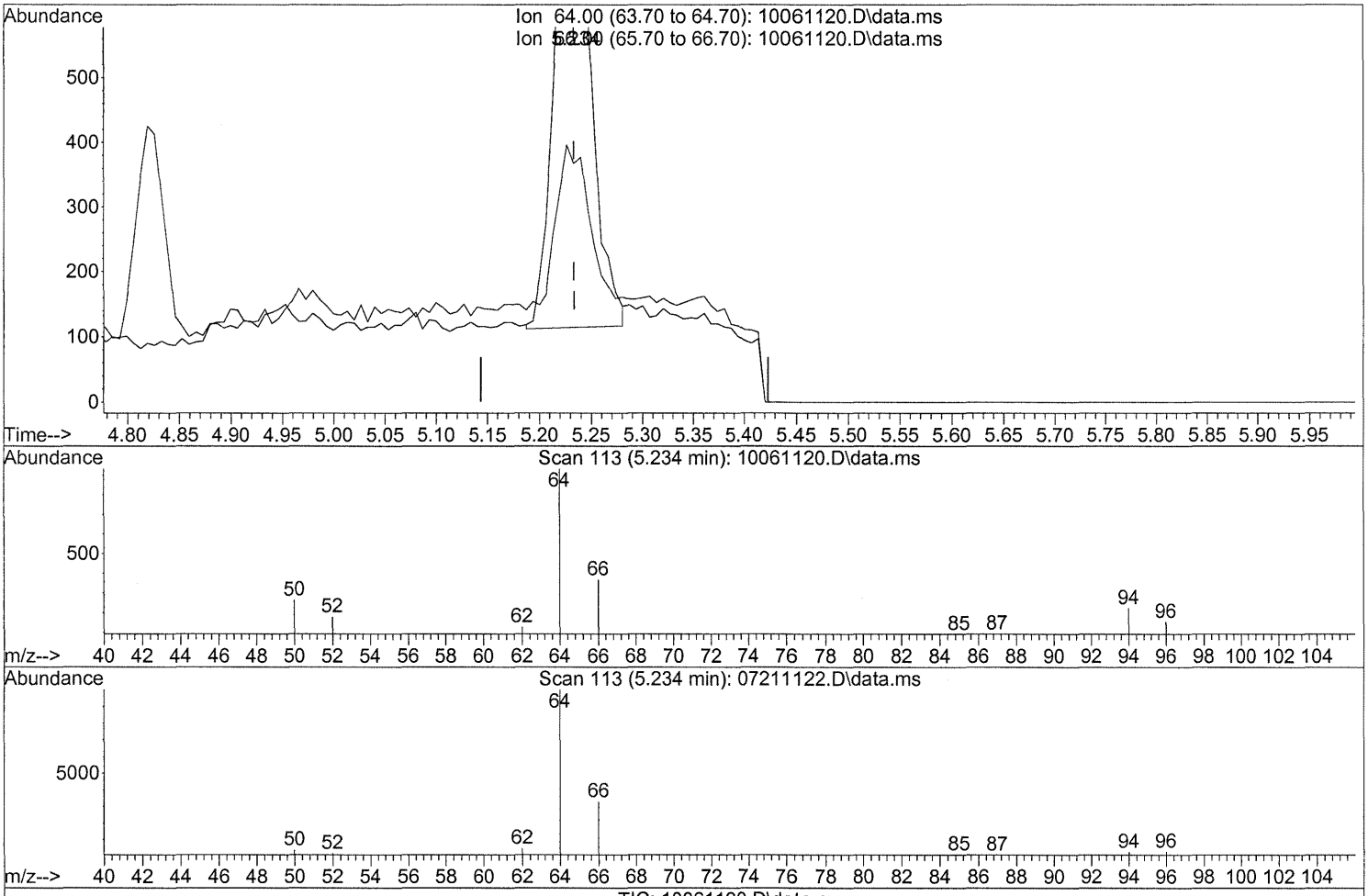
response 2223

Ion	Exp%	Act%
64.00	100	100
66.00	32.00	43.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061120.D\data.ms

(6) Chloroethane (T)

5.234min (-0.000) 21.75pg m

response 1866

Ion	Exp%	Act%
64.00	100	100
66.00	32.00	52.36#
0.00	0.00	0.00
0.00	0.00	0.00

BJC

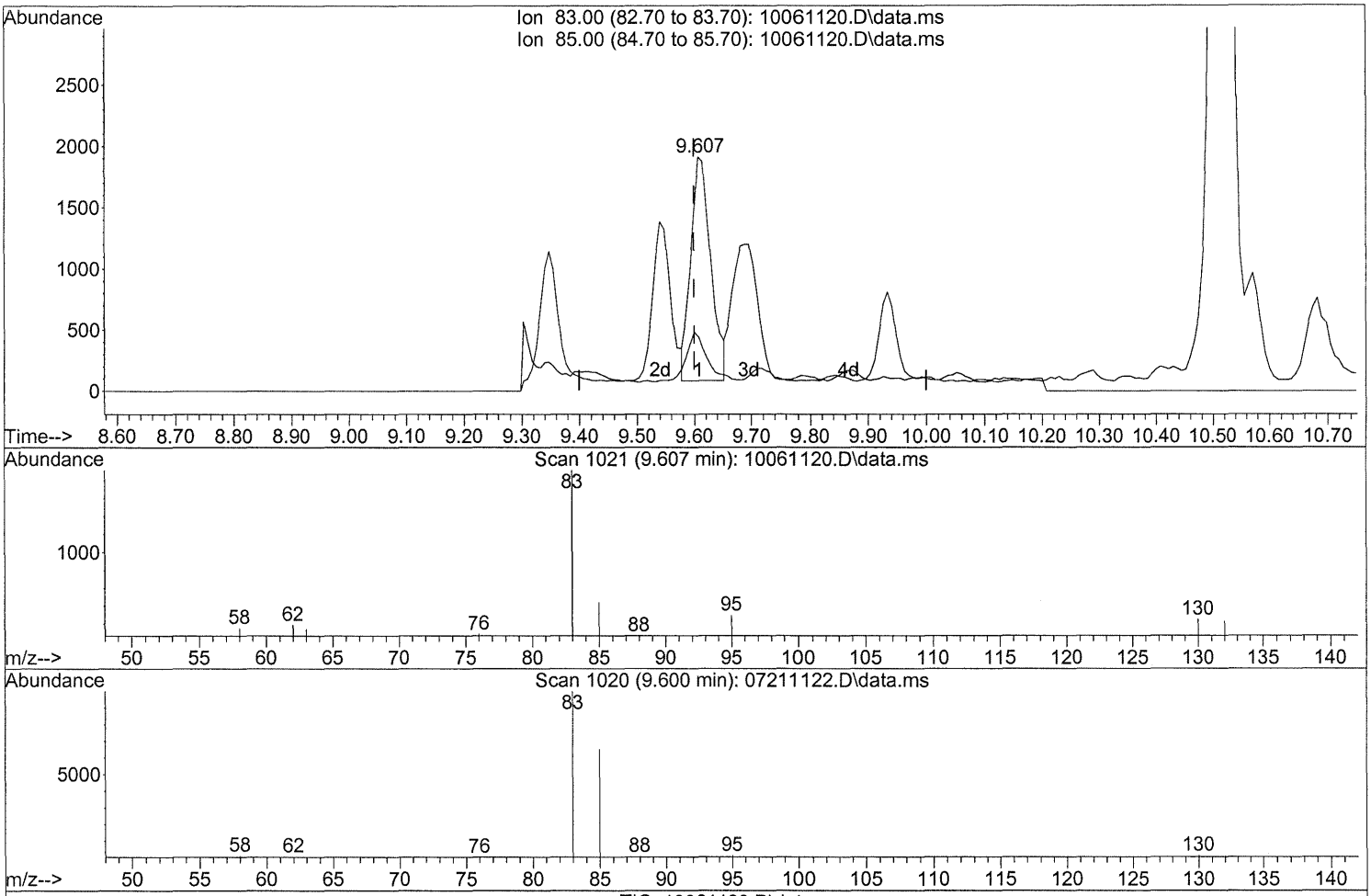
10/7/11

KR 10/7/11

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061120.D\data.ms

(24) Bromodichloromethane (T)

9.607min (+0.007) 36.47pg

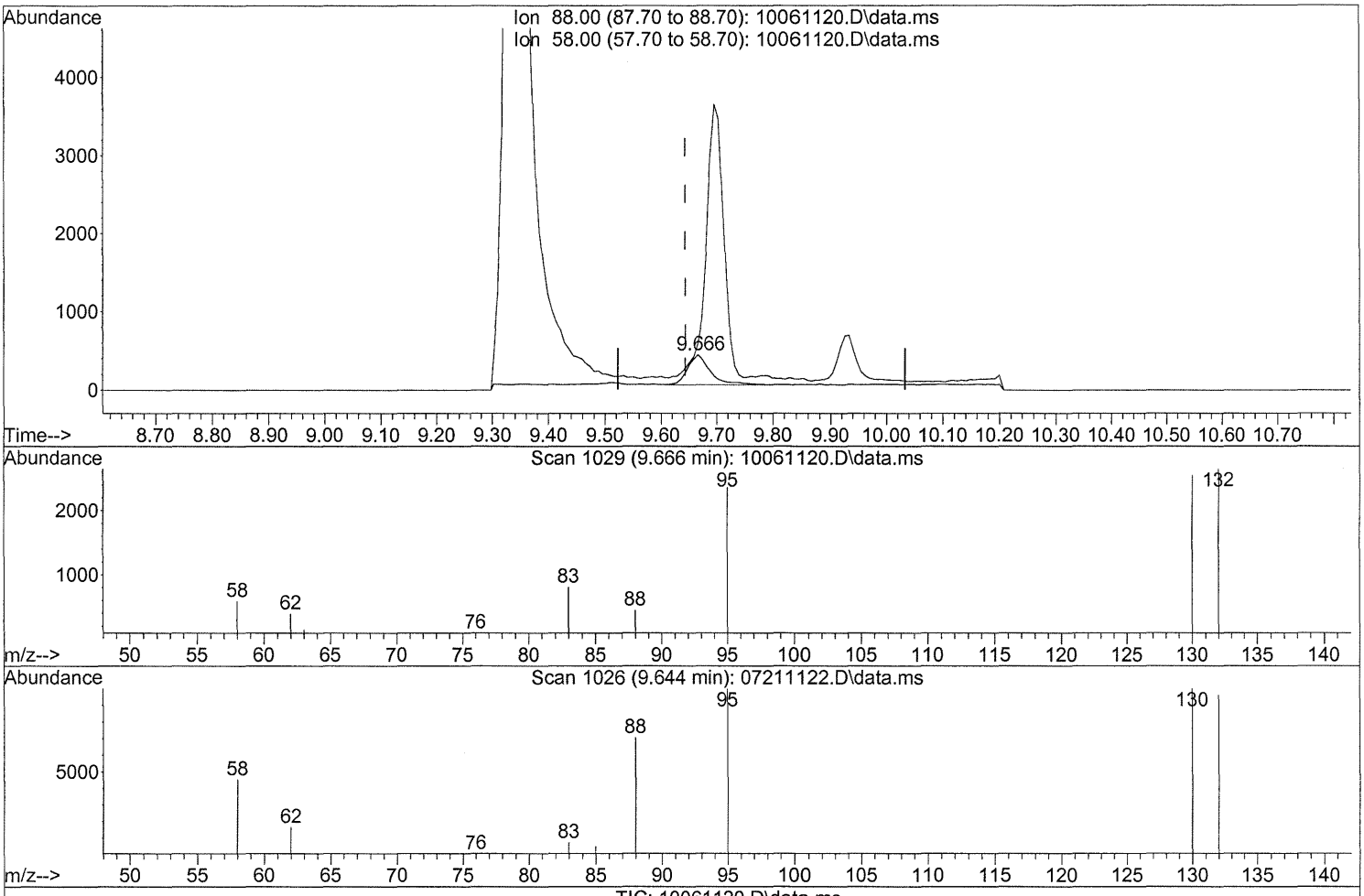
response 4473

Ion	Exp%	Act%
83.00	100	100
85.00	63.50	23.30#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061120.D\data.ms

(26) 1,4-Dioxane (T)

9.666min (+0.022) 13.65pg

response 1079

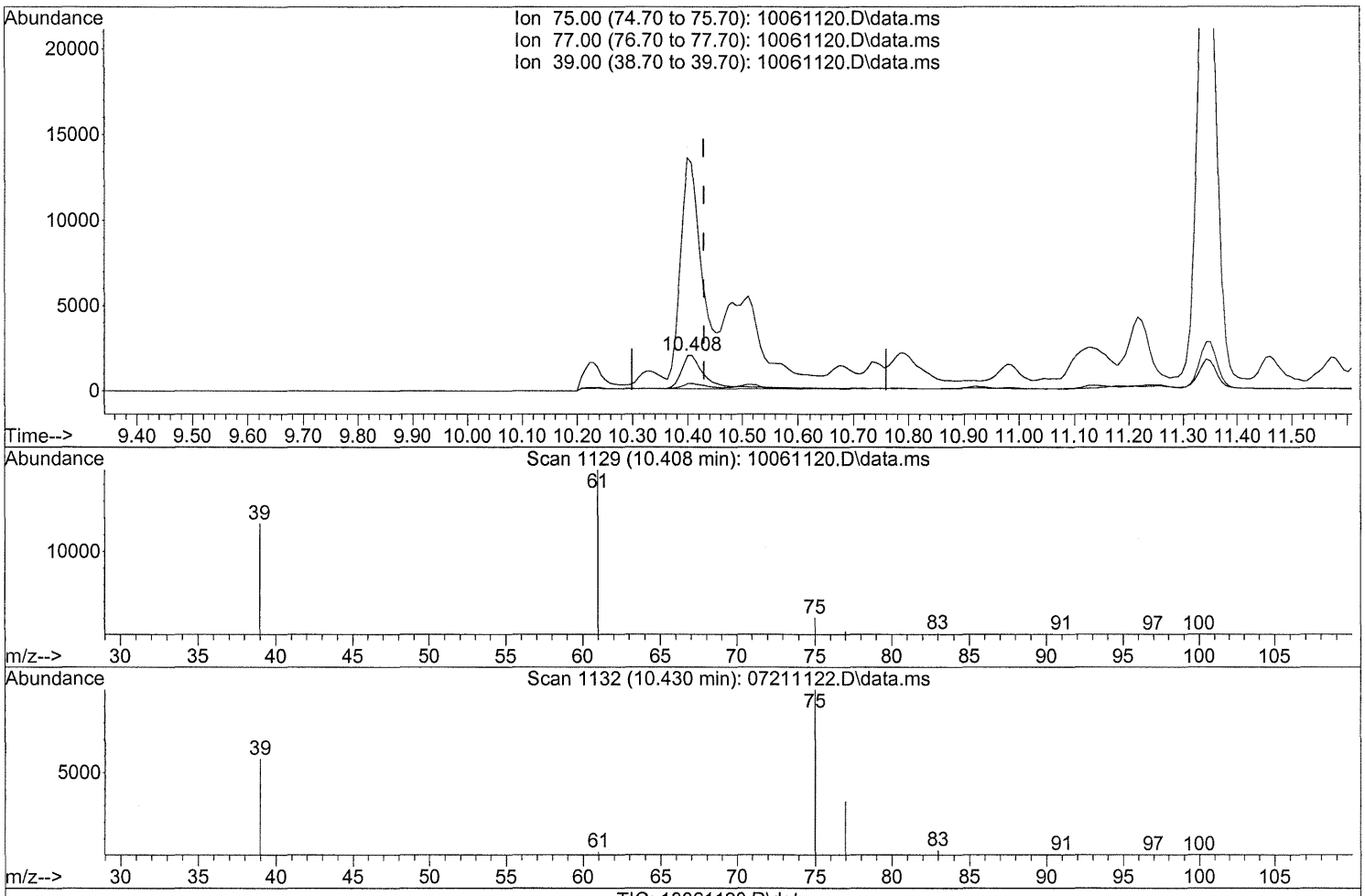
Ion	Exp%	Act%
88.00	100	100
58.00	63.80	722.43#
0.00	0.00	0.00
0.00	0.00	0.00

FP

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061120.D\data.ms

(27) cis-1,3-Dichloropropene (T)

10.408min (-0.022) 40.46pg

response 5962

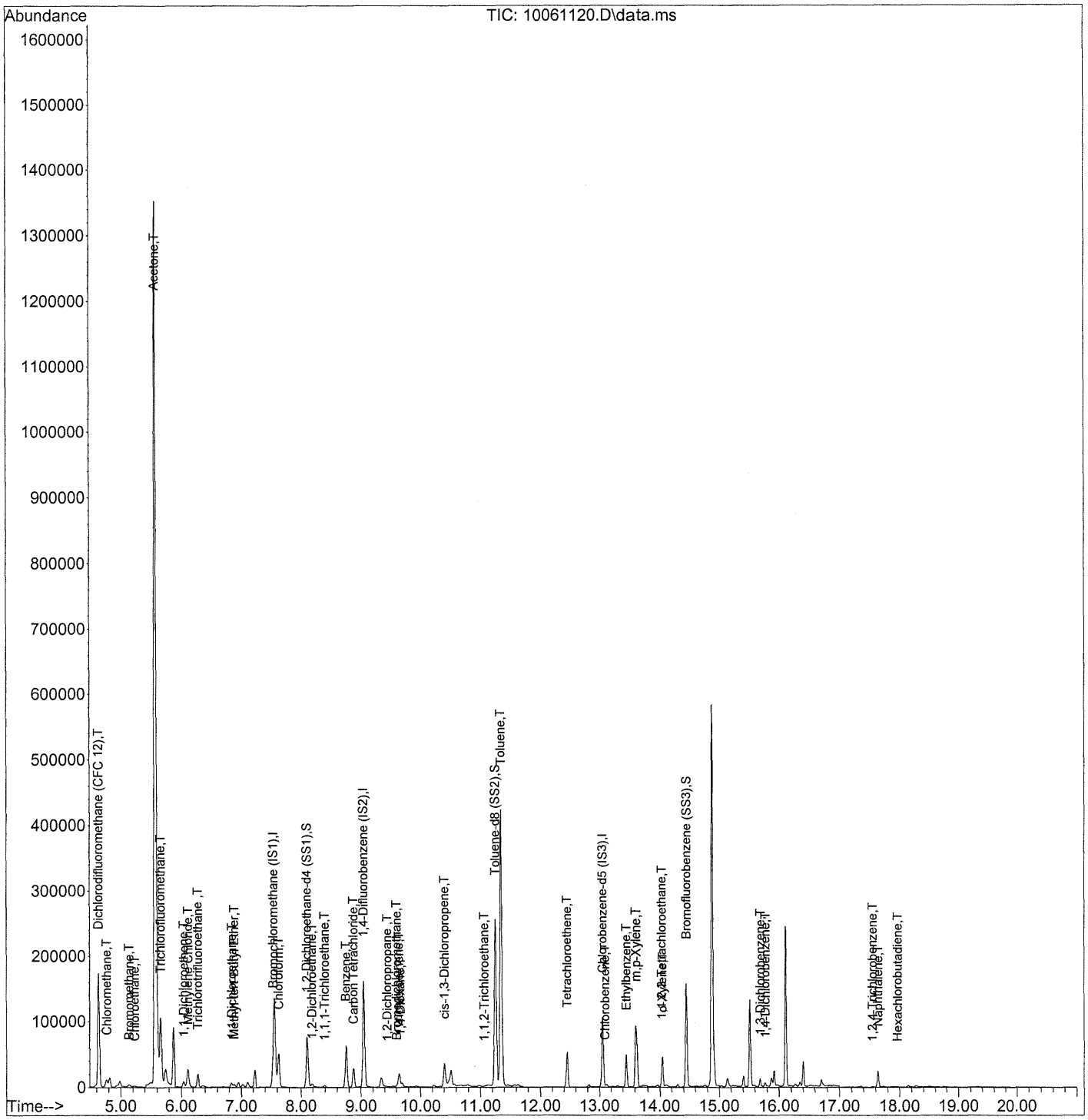
Ion	Exp%	Act%
75.00	100	100
77.00	32.40	16.37
39.00	55.40	580.39#
0.00	0.00	0.00

FP

Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	63514	1000.00 pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	298015	1000.00 pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	149063	1000.00 pg		0.00
System Monitoring Compounds						
17) 1,2-Dichloroethane-d4 ...	8.10	65	118227	952.10 pg		0.00
Spiked Amount 1000.000			Recovery = 95.21%			
30) Toluene-d8 (SS2)	11.25	98	332295	1025.69 pg		0.00
Spiked Amount 1000.000			Recovery = 102.57%			
40) Bromofluorobenzene (SS3)	14.45	174	113926	959.92 pg		0.00
Spiked Amount 1000.000			Recovery = 95.99%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	4.63	85	220282	1181.21 pg		98
3) Chloromethane	4.77	52	9215	200.37 pg	#	53
4) Vinyl Chloride	4.90	62	299	N.D.		
5) Bromomethane	5.14	94	3595	48.79 pg		98
6) Chloroethane	5.23	64	2223	25.91 pg		79
7) Acetone	5.58	58	708583	9677.40 pg	#	86
8) Trichlorofluoromethane	5.66	101	113201	648.31 pg		99
9) 1,1-Dichloroethene	6.04	96	5320	63.97 pg		90
10) Methylene Chloride	6.12	84	22977	231.26 pg		94
11) Trichlorotrifluoroethane	6.28	151	21954	273.35 pg		99
12) trans-1,2-Dichloroethene	6.71	96	236	N.D.		
13) 1,1-Dichloroethane	6.85	63	1057	7.05 pg	#	14
14) Methyl tert-Butyl Ether	6.88	73	5567	18.08 pg		92
15) cis-1,2-Dichloroethene	7.42	96	143	N.D.		
16) Chloroform	7.63	83	67060	380.01 pg		99
18) 1,2-Dichloroethane	8.19	62	3814	26.93 pg		99
19) 1,1,1-Trichloroethane	8.40	97	2854	18.24 pg		99
20) Benzene	8.75	78	112961	275.07 pg		100
21) Carbon Tetrachloride	8.88	117	31004	253.04 pg		99
23) 1,2-Dichloropropane	9.44	63	566	6.04 pg	#	58
24) Bromodichloromethane	9.61	83	4473	36.47 pg	#	48
25) Trichloroethene	9.64	130	14172	135.34 pg		99
26) 1,4-Dioxane	9.67	88	1079	13.65 pg	#	1
27) cis-1,3-Dichloropropene	10.41	75	5962	40.46 pg	#	1
28) trans-1,3-Dichloropropene	10.92	75	389	N.D.		
29) 1,1,2-Trichloroethane	11.07	83	601	8.05 pg	#	6
31) Toluene	11.35	91	542467	1351.47 pg		100
32) 1,2-Dibromoethane	11.98	107	20	N.D.		
33) Tetrachloroethene	12.45	166	60656	540.00 pg		100
35) Chlorobenzene	13.10	112	1613	6.35 pg		87

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061120.D
Acq On : 6 Oct 2011 17:54
Operator : KR
Sample : P1103662-002 (1000mL)
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 20:29:58 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

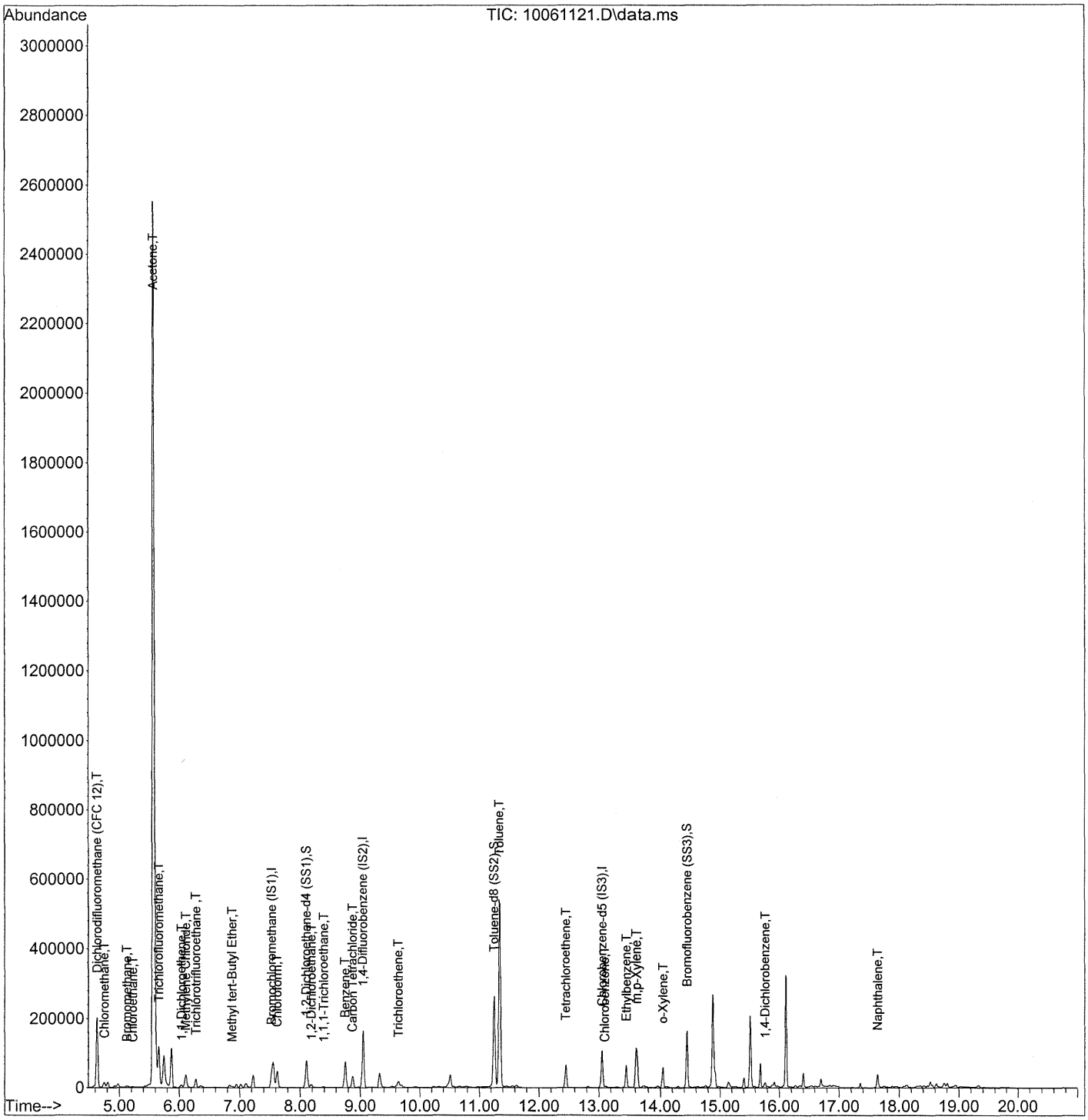
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Ethylbenzene	13.46	91	68598	153.46	pg		98
37) m,p-Xylene	13.62	91	147539	405.40	pg		99
38) o-Xylene	14.04	91	56896	153.25	pg		97
39) 1,1,2,2-Tetrachloroethane	14.03	83	727	4.43	pg		76
41) 1,3-Dichlorobenzene	15.69	146	1032	4.68	pg	#	1
42) 1,4-Dichlorobenzene	15.77	146	5010	22.61	pg		98
43) 1,2-Dichlorobenzene	16.07	146	308	N.D.			
44) 1,2,4-Trichlorobenzene	17.55	182	948	6.33	pg		96
45) Naphthalene	17.64	128	37009	67.93	pg		96
46) Hexachlorobutadiene	17.97	225	609	6.99	pg		96

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:39:00 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

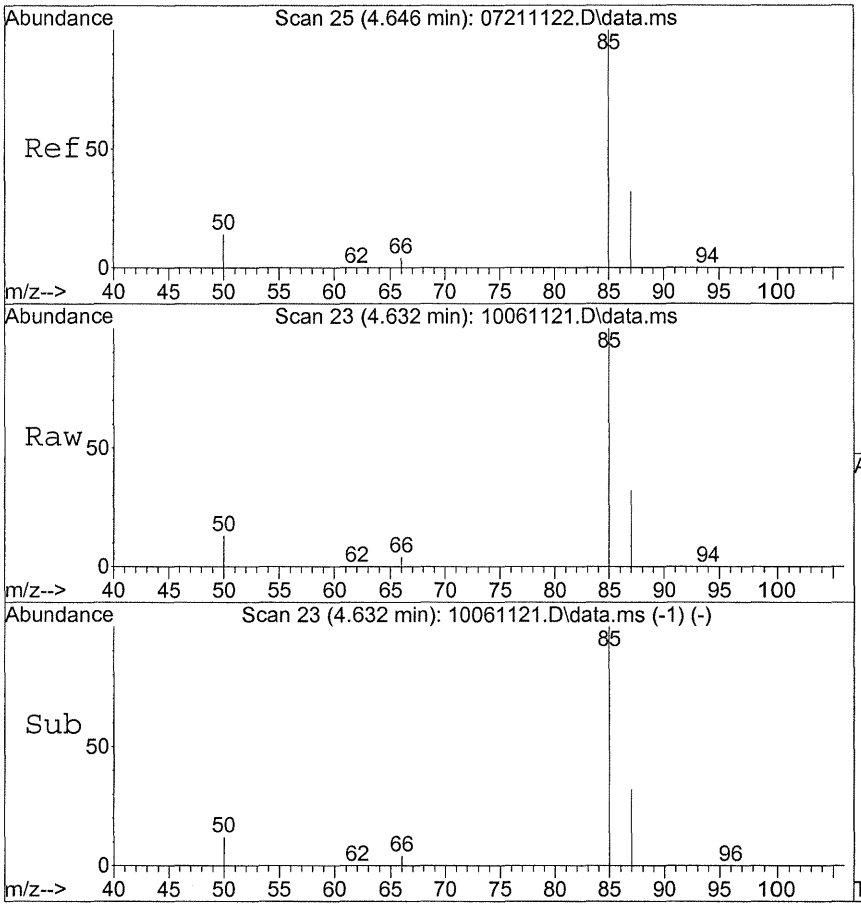
Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:39:00 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	63744	1000.00	pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	298436	1000.00	pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	148944	1000.00	pg	0.00
System Monitoring Compounds						
17) 1,2-Dichloroethane-d4 ...	8.10	65	118416	950.18	pg	0.00
Spiked Amount 1000.000			Recovery = 95.02%			
30) Toluene-d8 (SS2)	11.25	98	332679	1025.43	pg	0.00
Spiked Amount 1000.000			Recovery = 102.54%			
40) Bromofluorobenzene (SS3)	14.45	174	116098	979.01	pg	0.00
Spiked Amount 1000.000			Recovery = 97.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	4.63	85	256674	1371.39	pg	98
3) Chloromethane	4.75	52	8313	180.10	pg	95
5) Bromomethane	5.13	94	4123	55.75	pg	98
6) Chloroethane	5.22	64	2280	26.48	pg	87
7) Acetone	5.57	58	1355973	18452.25	pg	93
8) Trichlorofluoromethane	5.66	101	127884	729.76	pg	99
9) 1,1-Dichloroethene	6.04	96	4315	51.70	pg	91
10) Methylene Chloride	6.11	84	29072	291.55	pg	94
11) Trichlorotrifluoroethane	6.28	151	26217	325.25	pg	100
14) Methyl tert-Butyl Ether	6.87	73	4453m	14.41	pg	
16) Chloroform	7.62	83	63124	356.41	pg	98
18) 1,2-Dichloroethane	8.19	62	6520	45.87	pg	98
19) 1,1,1-Trichloroethane	8.39	97	3202	20.39	pg	98
20) Benzene	8.75	78	131608	319.32	pg	100
21) Carbon Tetrachloride	8.87	117	36004	292.79	pg	99
25) Trichloroethene	9.64	130	11095	105.81	pg	98
31) Toluene	11.34	91	685376	1705.10	pg	100
33) Tetrachloroethene	12.45	166	74556	662.81	pg	99
35) Chlorobenzene	13.10	112	2806m	11.06	pg	
36) Ethylbenzene	13.46	91	87613	196.16	pg	98
37) m,p-Xylene	13.62	91	179981	494.94	pg	99
38) o-Xylene	14.04	91	71105	191.67	pg	98
42) 1,4-Dichlorobenzene	15.77	146	10468	47.29	pg	99
45) Naphthalene	17.64	128	60069	110.35	pg	89

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

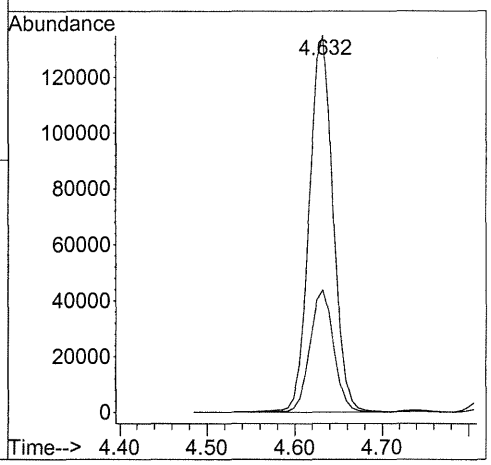
10/7/11

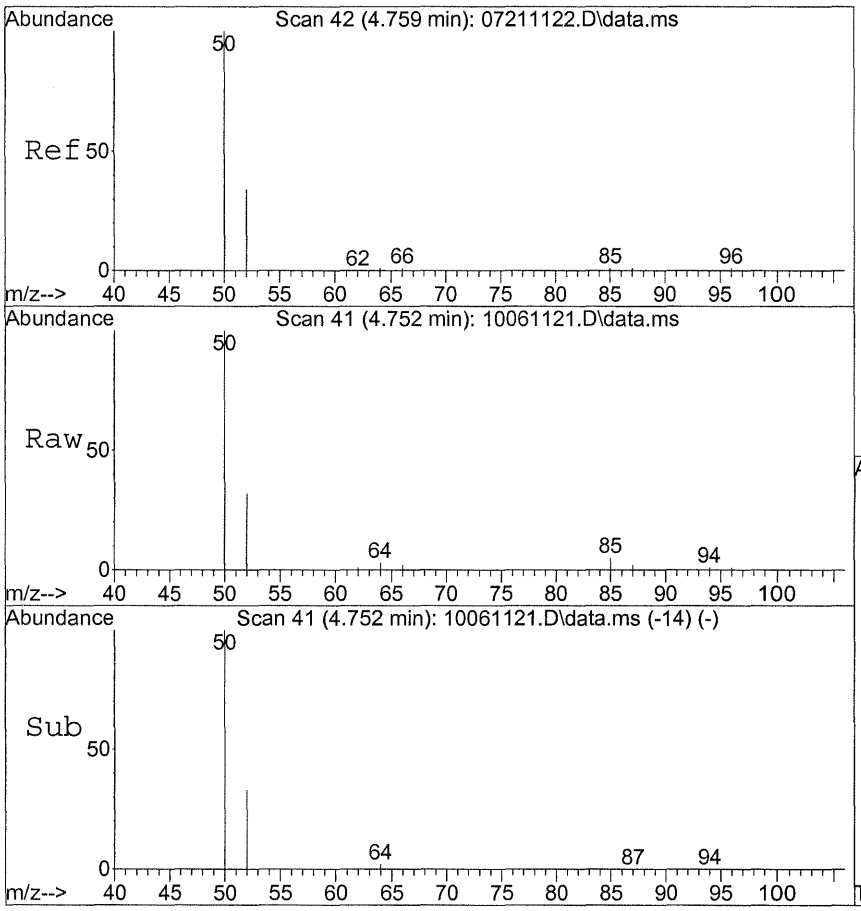


#2
Dichlorodifluoromethane (CFC
Concen: 1371.39 pg
RT: 4.63 min Scan# 23
Delta R.T. -0.014 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 85 Resp: 256674

Ion	Ratio	Lower	Upper
85	100		
87	32.3	13.3	53.3

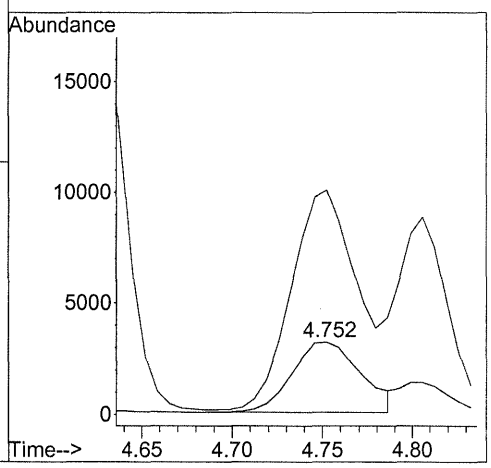


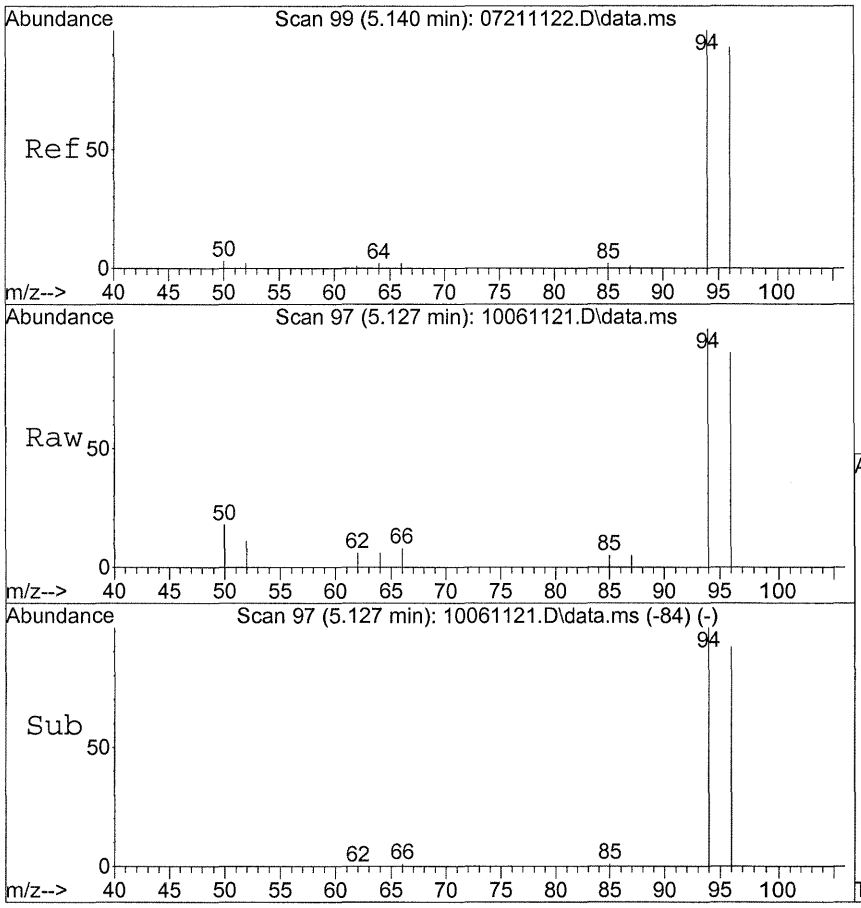


#3
Chloromethane
Concen: 180.10 pg
RT: 4.75 min Scan# 41
Delta R.T. -0.007 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 52 Resp: 8313

Ion	Ratio	Lower	Upper
52	100		
50	296.4	285.3	325.3

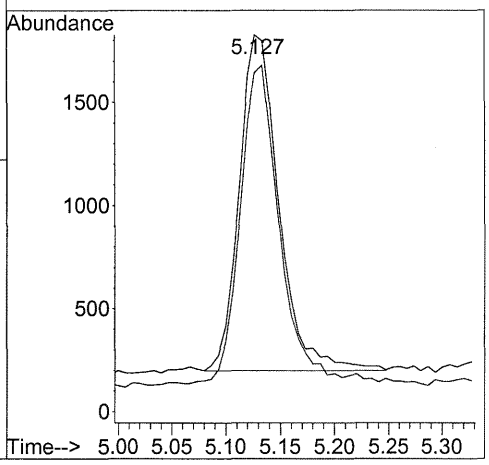


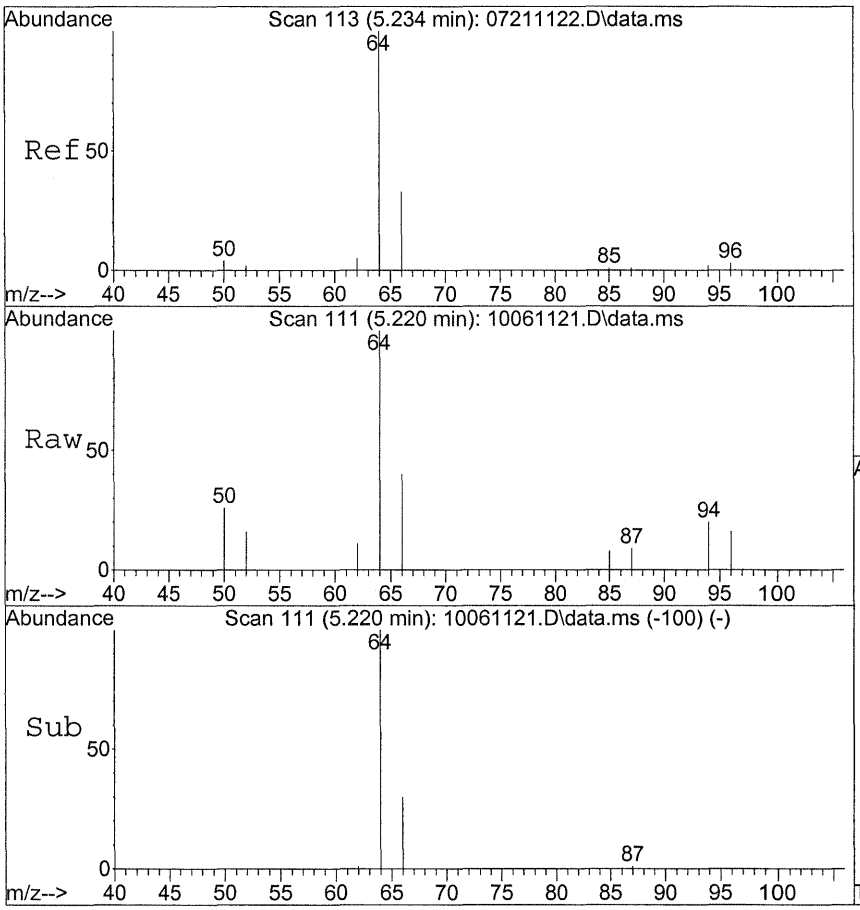


#5
Bromomethane
Concen: 55.75 pg
RT: 5.13 min Scan# 97
Delta R.T. -0.013 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 94 Resp: 4123

Ion	Ratio	Lower	Upper
94	100		
96	94.4	74.2	111.4

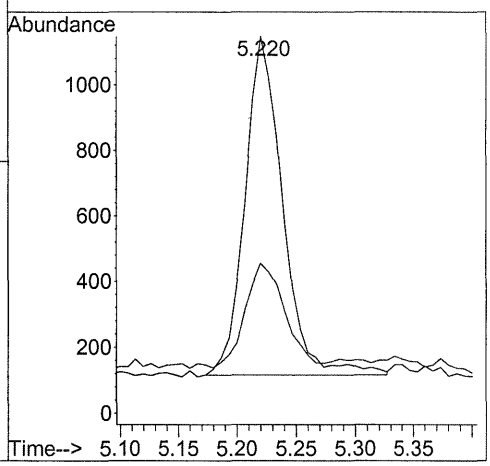


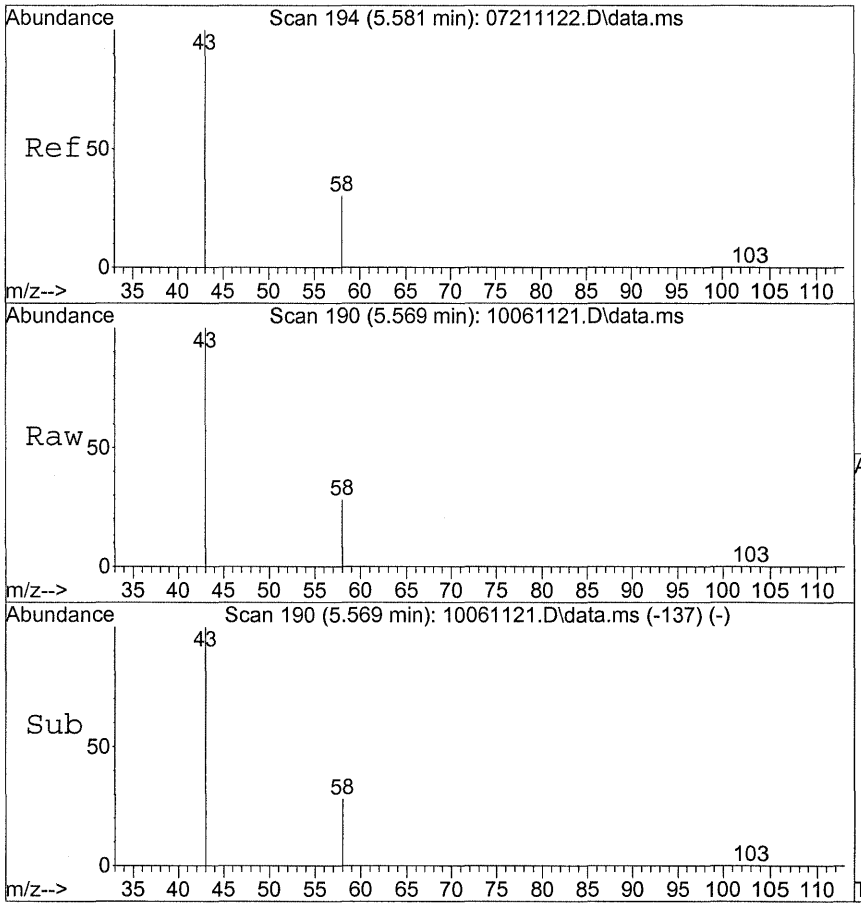


#6
Chloroethane
Concen: 26.48 pg
RT: 5.22 min Scan# 111
Delta R.T. -0.014 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 64 Resp: 2280

Ion	Ratio	Lower	Upper
64	100		
66	39.3	12.0	52.0

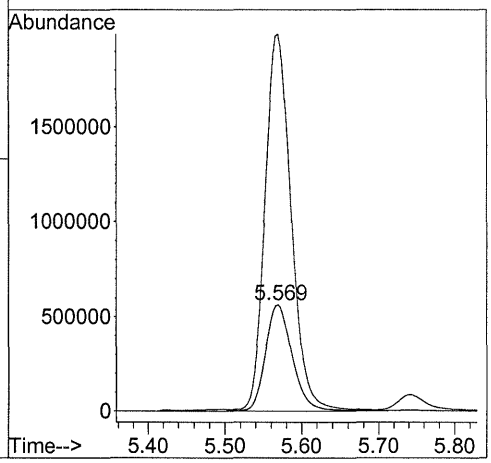


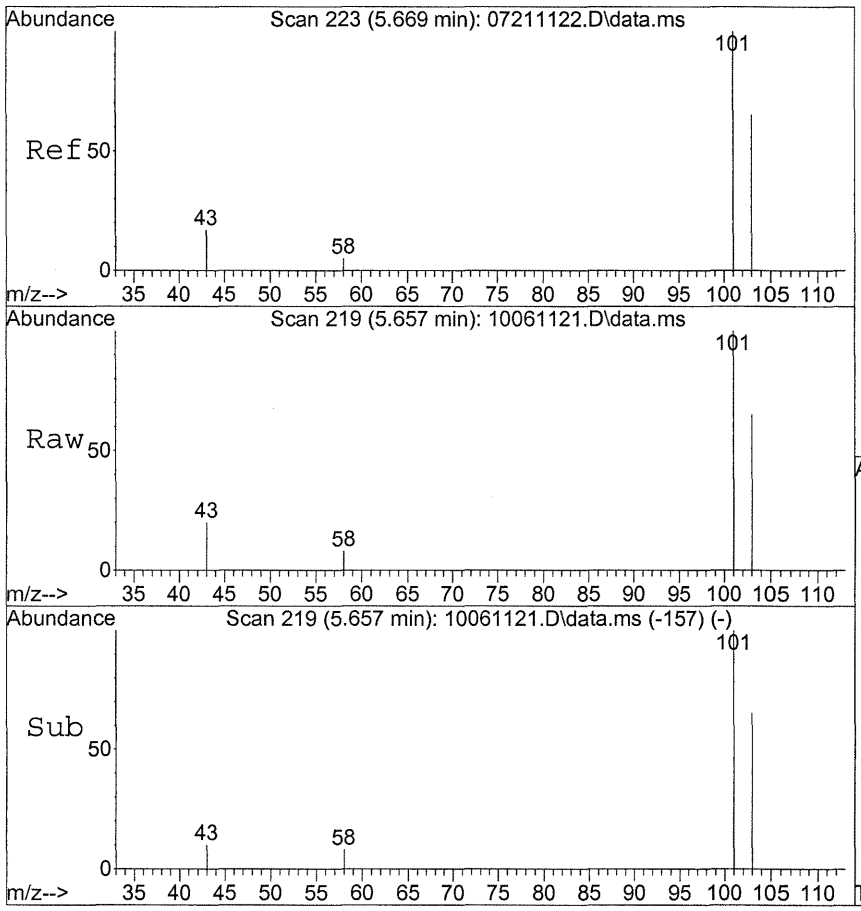


#7
Acetone
Concen: 18452.25 pg
RT: 5.57 min Scan# 190
Delta R.T. -0.012 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 58 Resp: 1355973

Ion	Ratio	Lower	Upper
58	100		
43	341.4	307.2	347.2

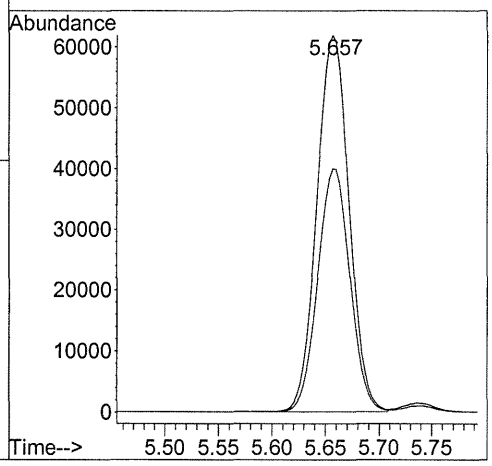


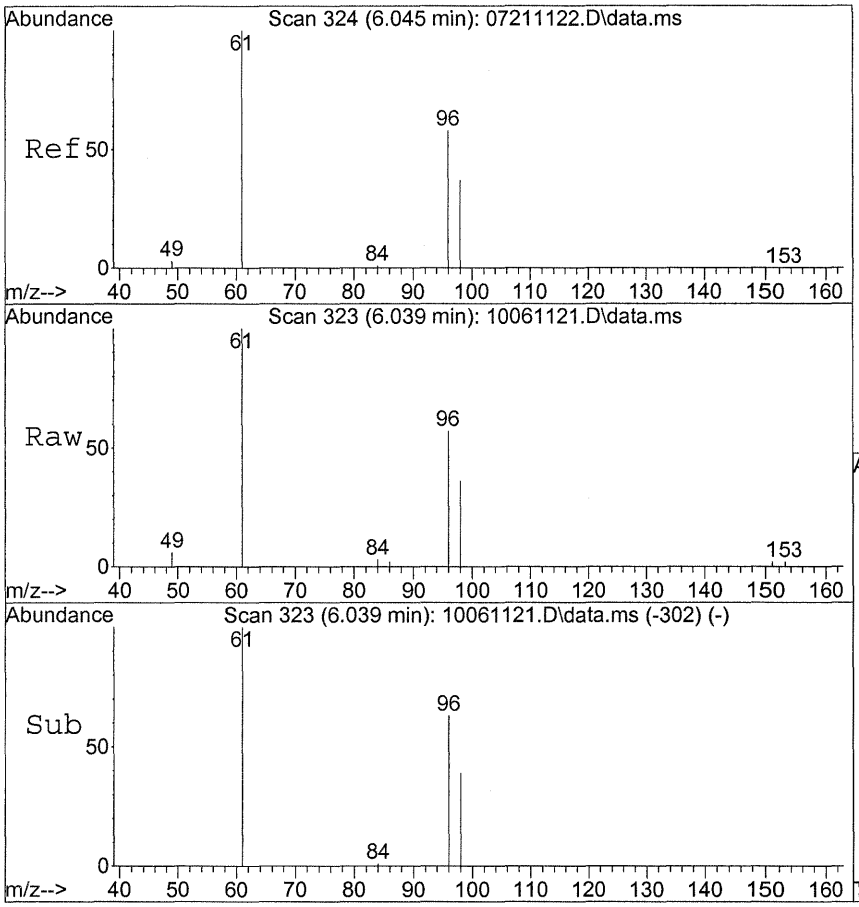


#8
Trichlorofluoromethane
Concen: 729.76 pg
RT: 5.66 min Scan# 219
Delta R.T. -0.012 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion:101 Resp: 127884

Ion	Ratio	Lower	Upper
101	100		
103	64.2	50.6	75.8

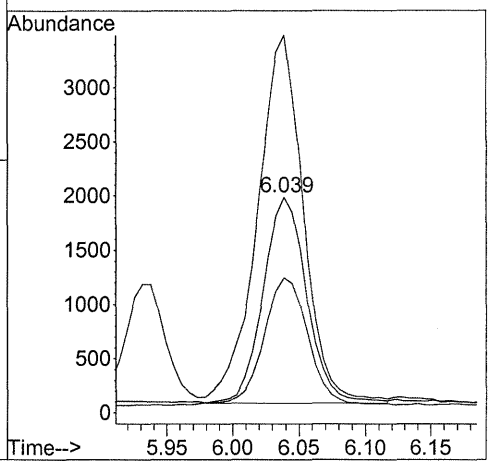


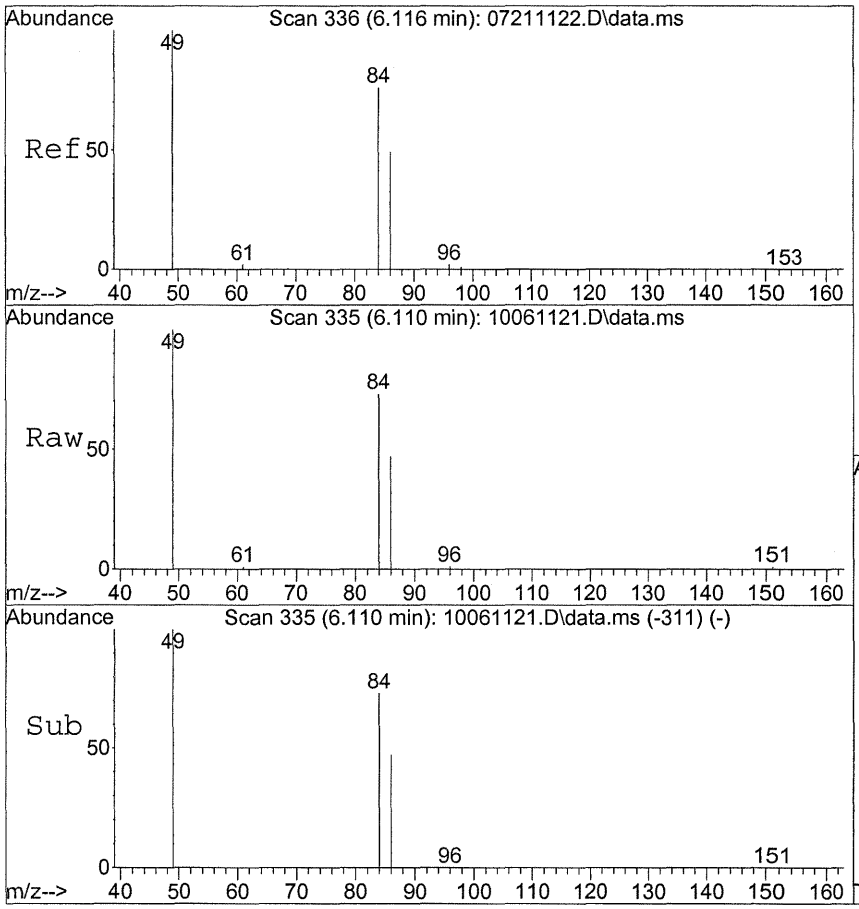


#9
1,1-Dichloroethene
Concen: 51.70 pg
RT: 6.04 min Scan# 323
Delta R.T. -0.006 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 96 Resp: 4315

Ion	Ratio	Lower	Upper
96	100		
98	64.0	43.8	83.8
61	181.8	145.1	185.1

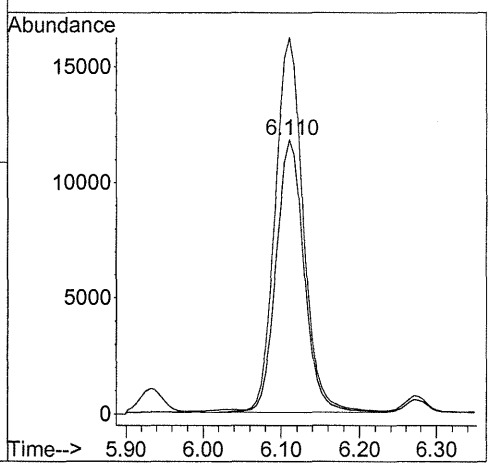


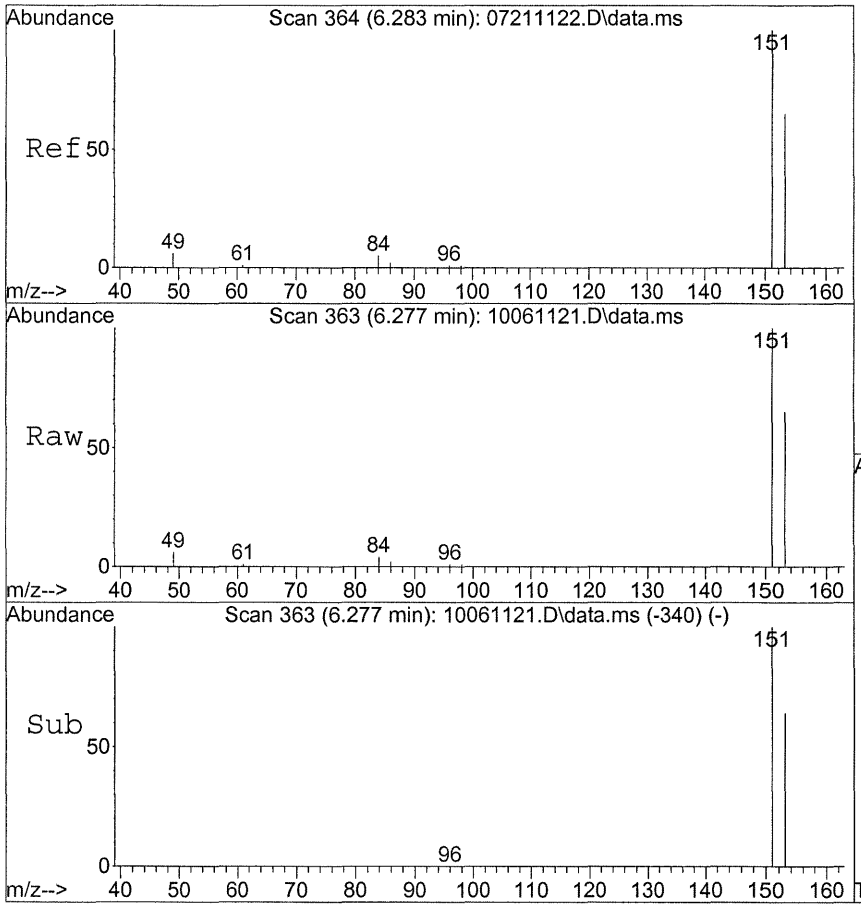


#10
Methylene Chloride
Concen: 291.55 pg
RT: 6.11 min Scan# 335
Delta R.T. -0.006 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 84 Resp: 29072

Ion	Ratio	Lower	Upper
84	100		
49	134.9	107.9	147.9

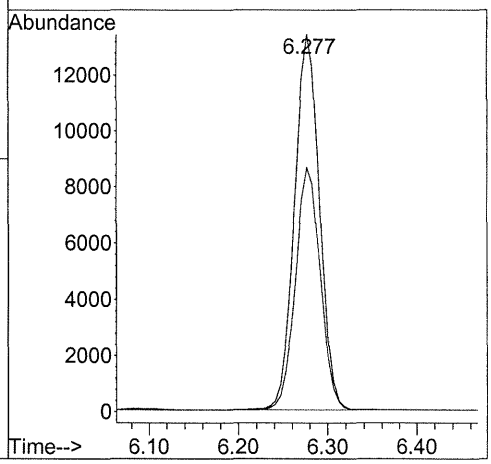


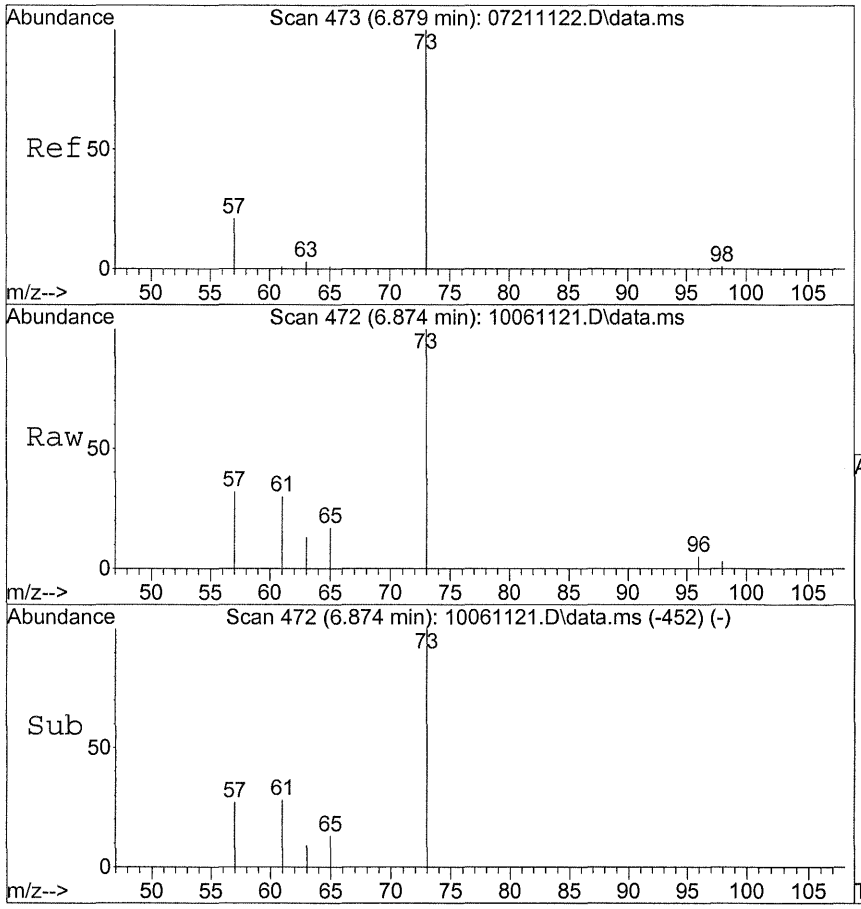


#11
Trichlorotrifluoroethane
Concen: 325.25 pg
RT: 6.28 min Scan# 363
Delta R.T. -0.006 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion:151 Resp: 26217

Ion	Ratio	Lower	Upper
151	100		
153	64.2	44.1	84.1

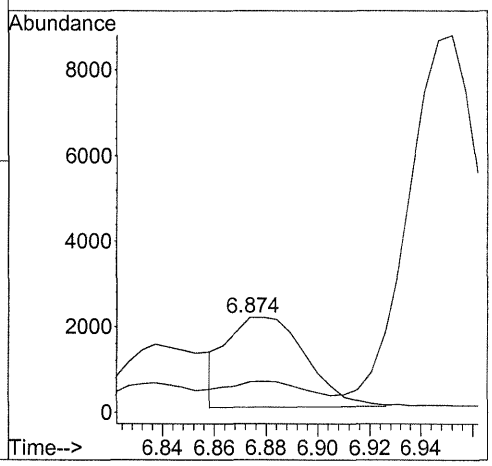


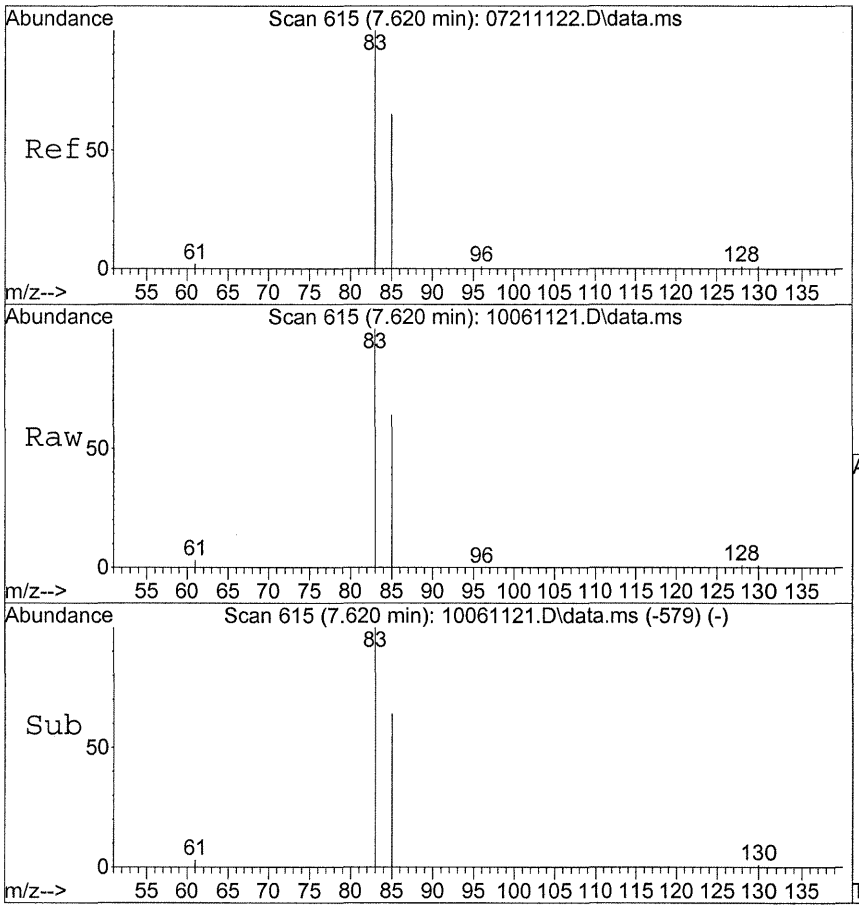


#14
Methyl tert-Butyl Ether
Concen: 14.41 pg m
RT: 6.87 min Scan# 472
Delta R.T. -0.005 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 73 Resp: 4453

Ion	Ratio	Lower	Upper
73	100		
57	19.8	1.2	41.2

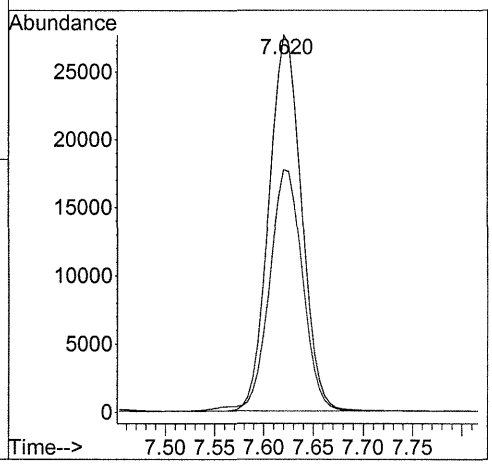


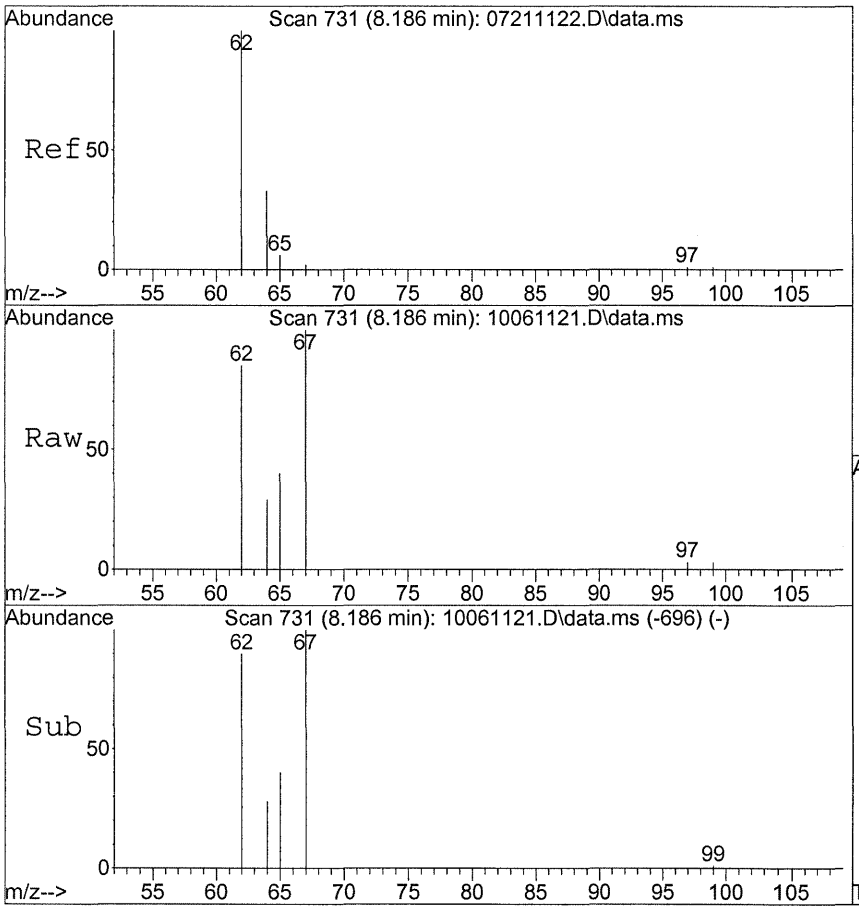


#16
Chloroform
Concen: 356.41 pg
RT: 7.62 min Scan# 615
Delta R.T. 0.000 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 83 Resp: 63124

Ion	Ratio	Lower	Upper
83	100		
85	65.9	44.4	84.4

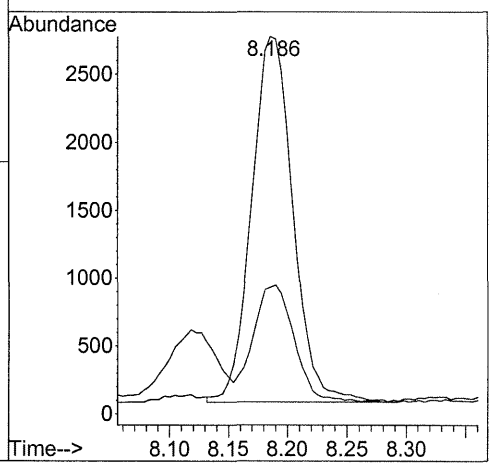


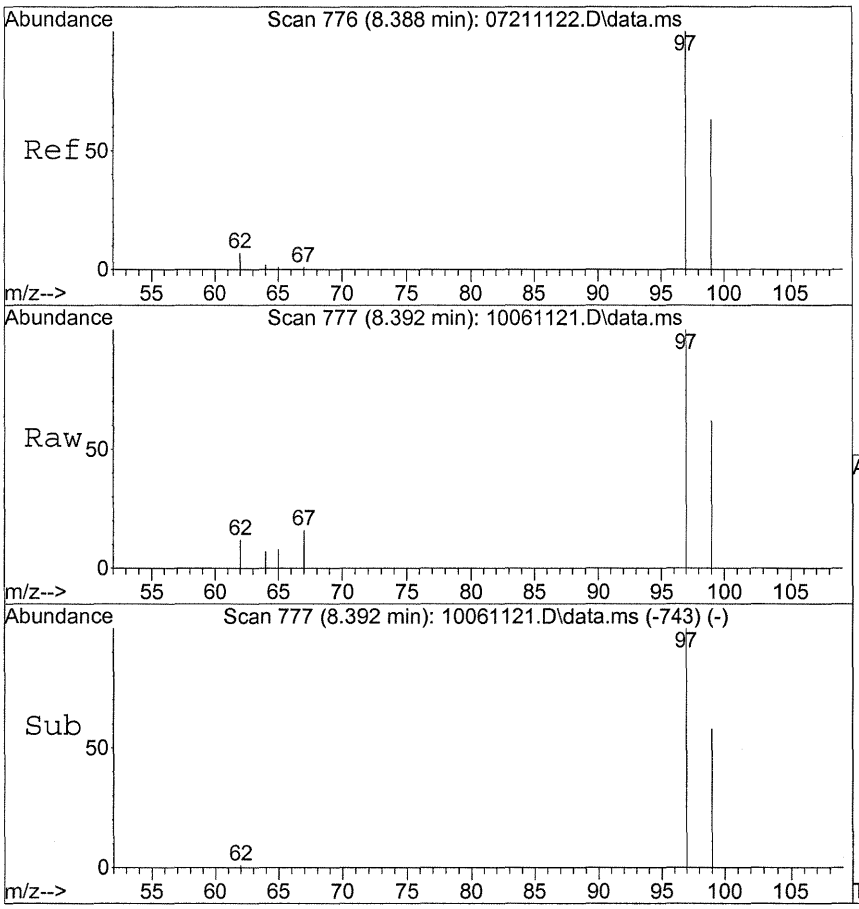


#18
1,2-Dichloroethane
Concen: 45.87 pg
RT: 8.19 min Scan# 731
Delta R.T. -0.000 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 62 Resp: 6520

Ion	Ratio	Lower	Upper
62	100		
64	31.3	10.3	50.3

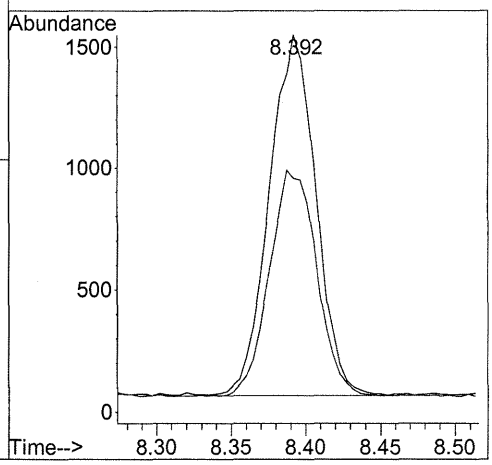


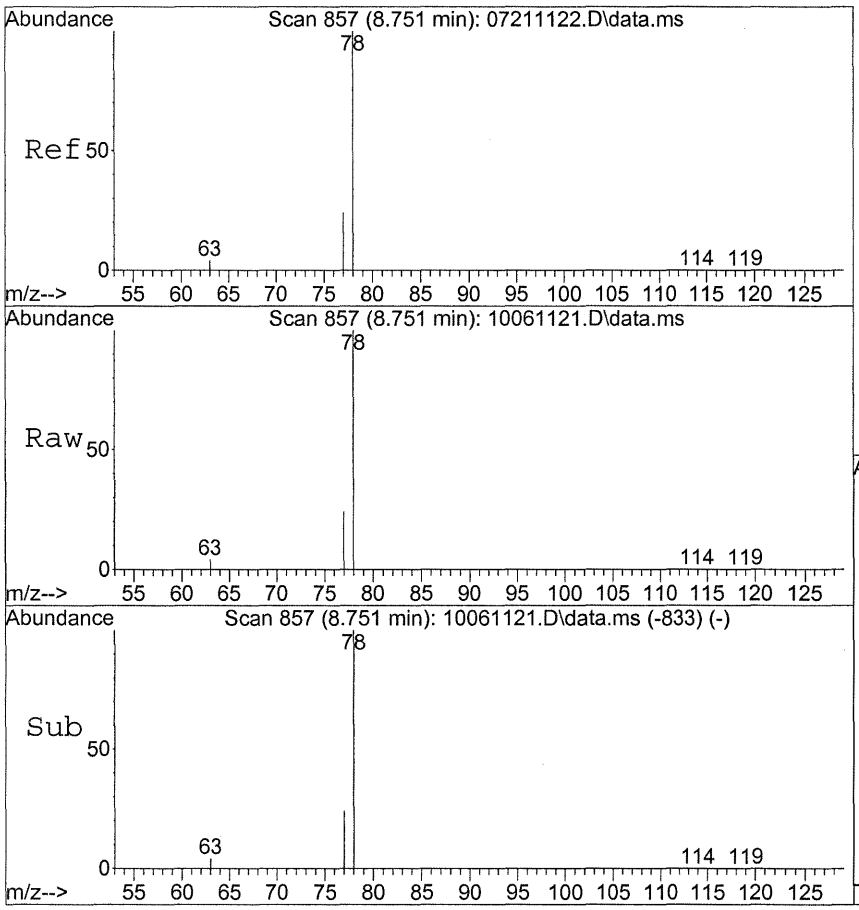


#19
1,1,1-Trichloroethane
Concen: 20.39 pg
RT: 8.39 min Scan# 777
Delta R.T. 0.004 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 97 Resp: 3202

Ion	Ratio	Lower	Upper
97	100		
99	63.6	45.2	85.2

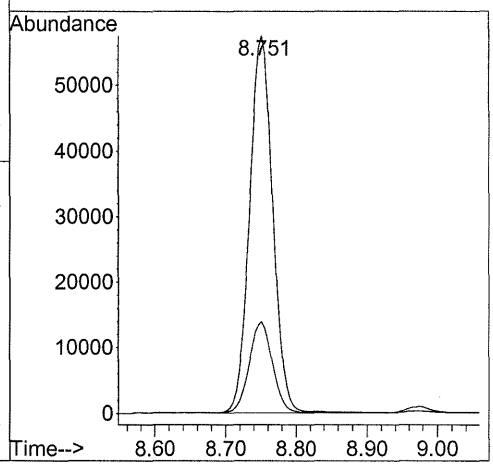


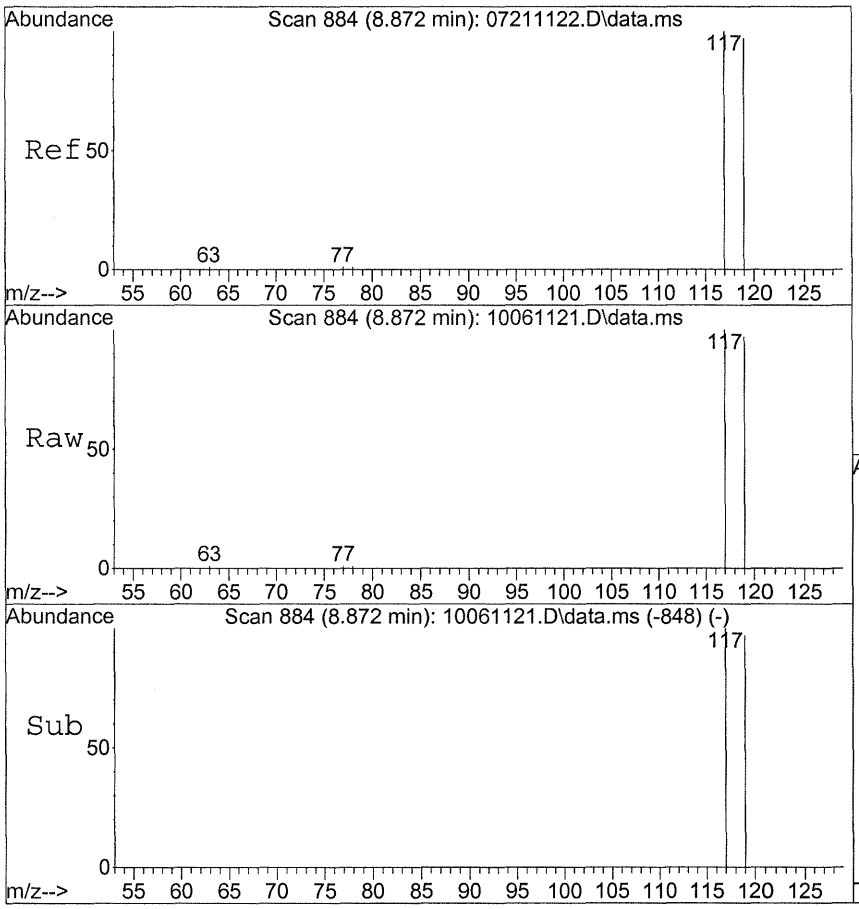


#20
Benzene
Concen: 319.32 pg
RT: 8.75 min Scan# 857
Delta R.T. 0.000 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 78 Resp: 131608

Ion	Ratio	Lower	Upper
78	100		
77	24.1	4.0	44.0

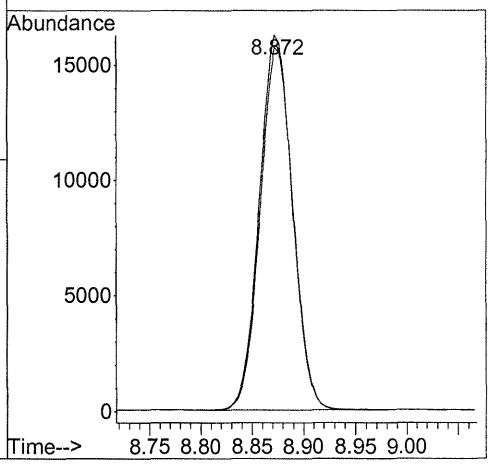


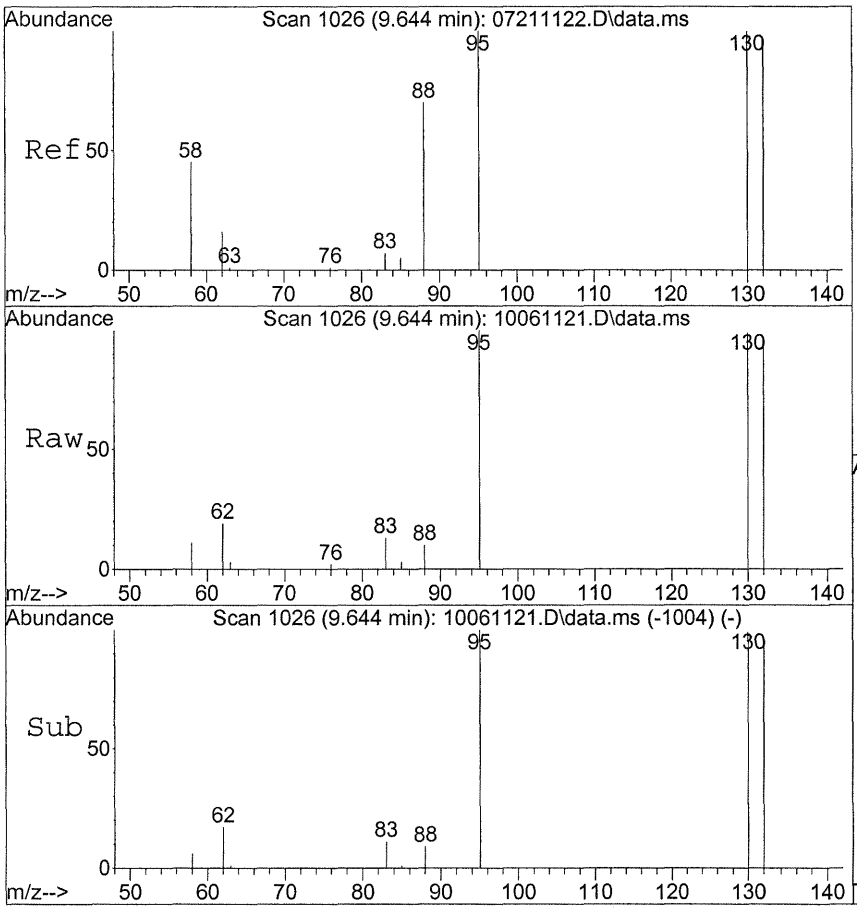


#21
Carbon Tetrachloride
Concen: 292.79 pg
RT: 8.87 min Scan# 884
Delta R.T. 0.000 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion:117 Resp: 36004

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.5	117.5

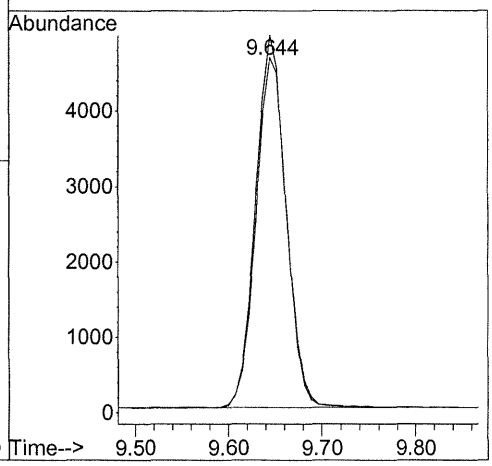


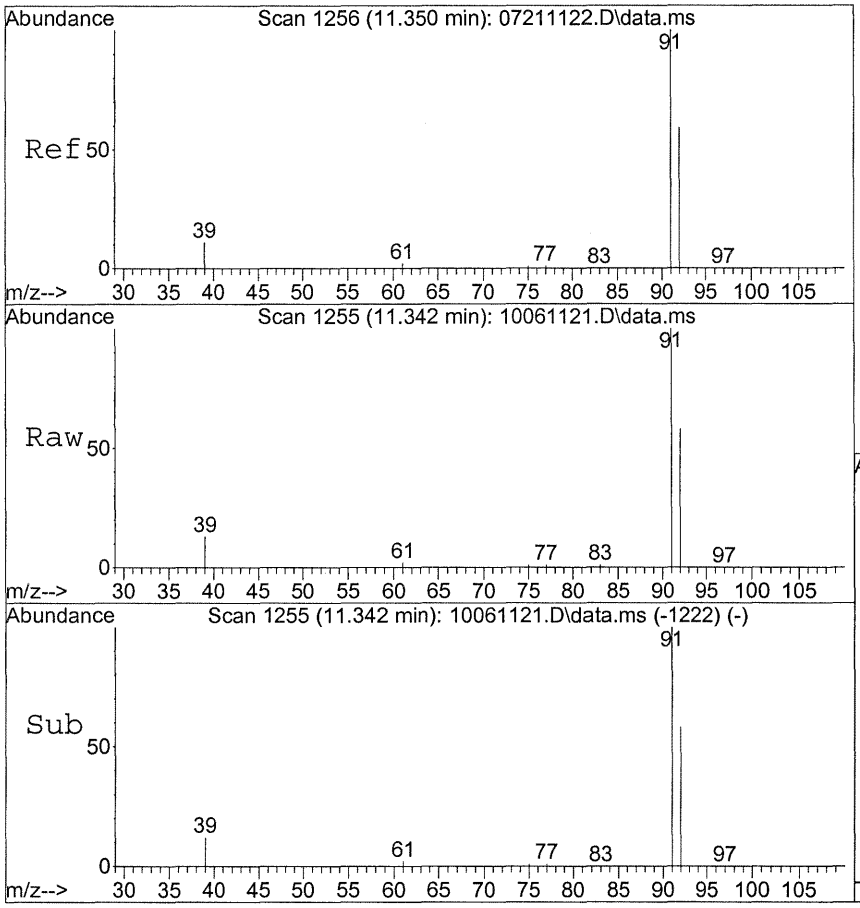


#25
Trichloroethene
Concen: 105.81 pg
RT: 9.64 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion:130 Resp: 11095

Ion	Ratio	Lower	Upper
130	100		
132	96.5	74.7	114.7

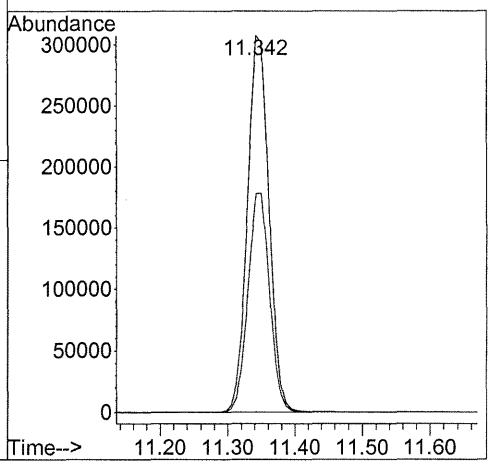


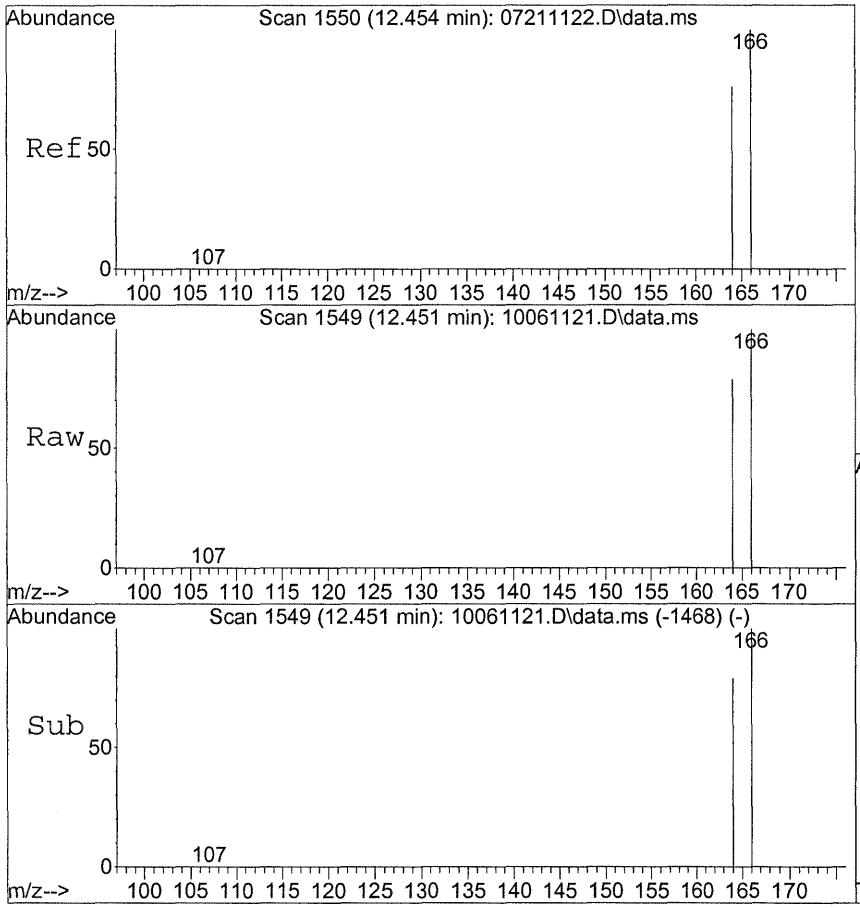


#31
Toluene
Concen: 1705.10 pg
RT: 11.34 min Scan# 1255
Delta R.T. -0.008 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 91 Resp: 685376

Ion	Ratio	Lower	Upper
91	100		
92	58.4	38.2	78.2

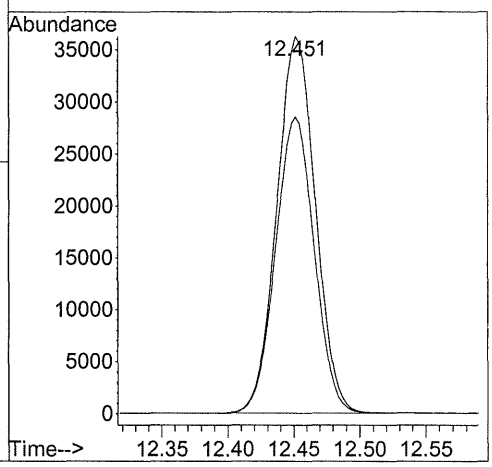


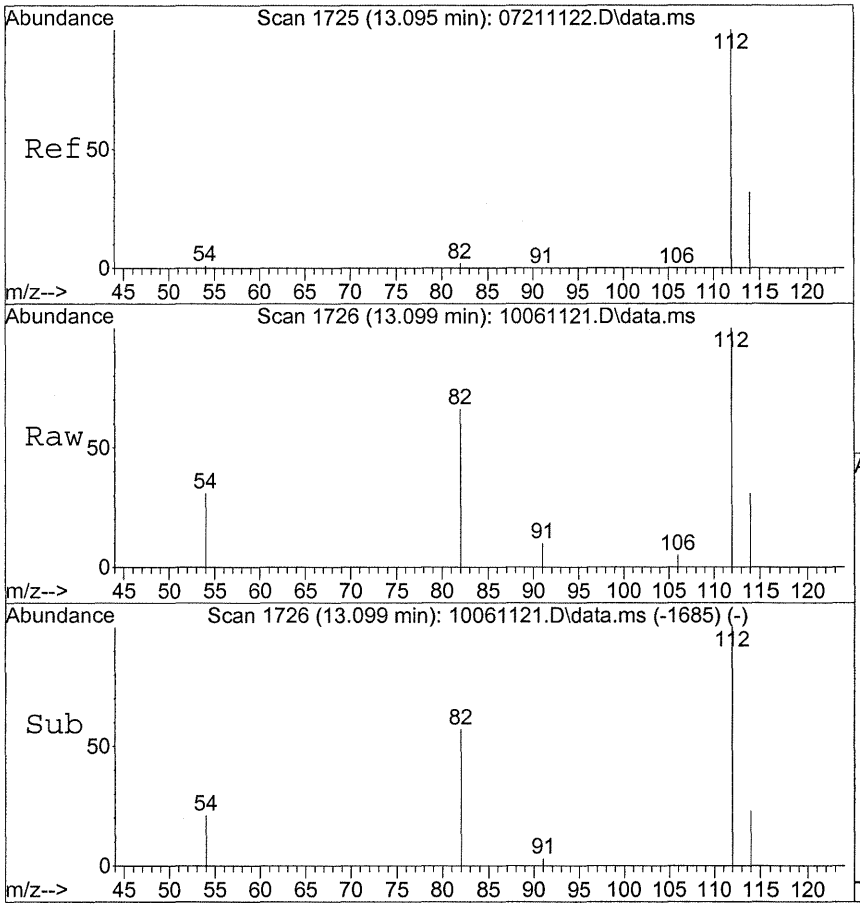


#33
Tetrachloroethene
Concen: 662.81 pg
RT: 12.45 min Scan# 1549
Delta R.T. -0.003 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion:166 Resp: 74556

Ion	Ratio	Lower	Upper
166	100		
164	78.8	58.2	98.2

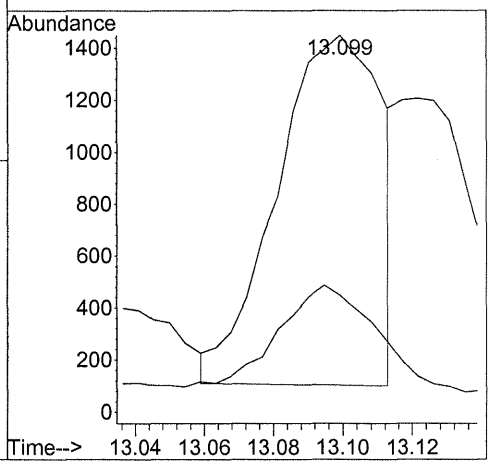


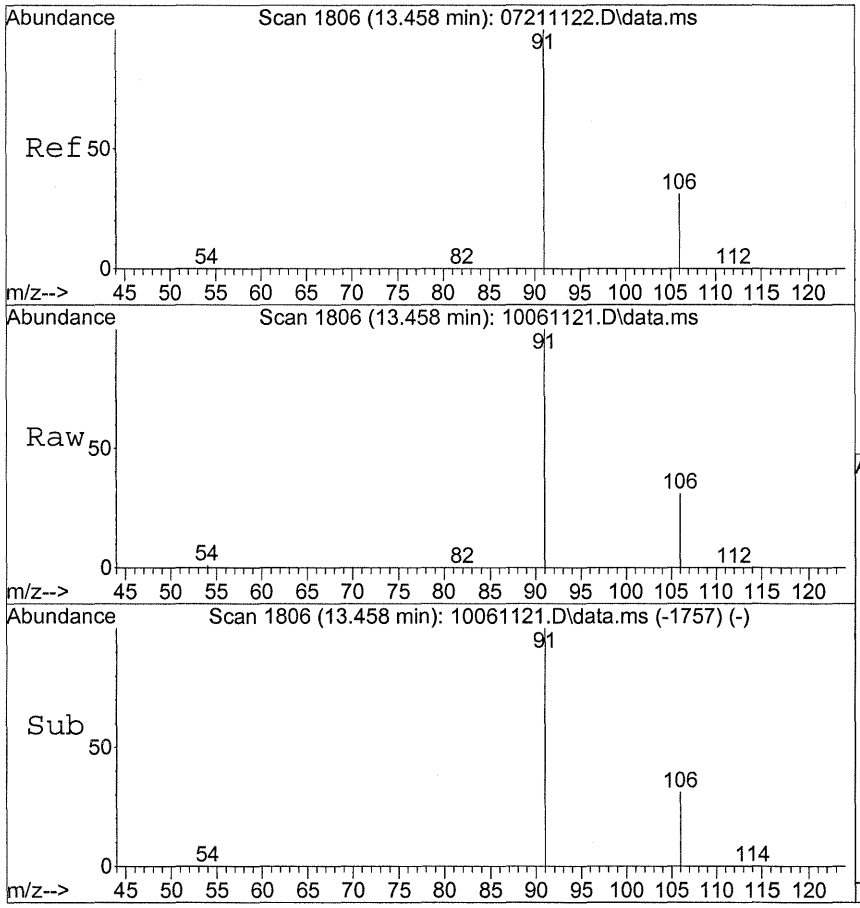


#35
Chlorobenzene
Concen: 11.06 pg m
RT: 13.10 min Scan# 1726
Delta R.T. 0.004 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion:112 Resp: 2806

Ion	Ratio	Lower	Upper
112	100		
114	30.9	11.9	51.9

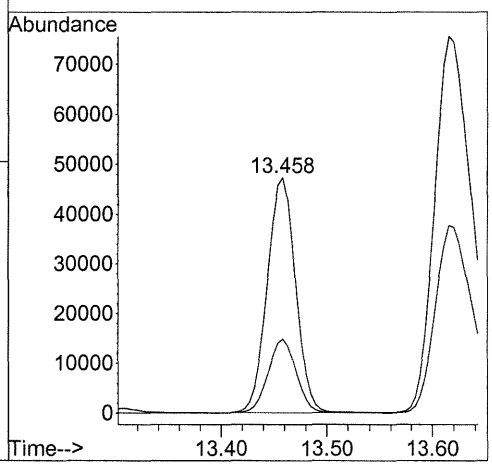


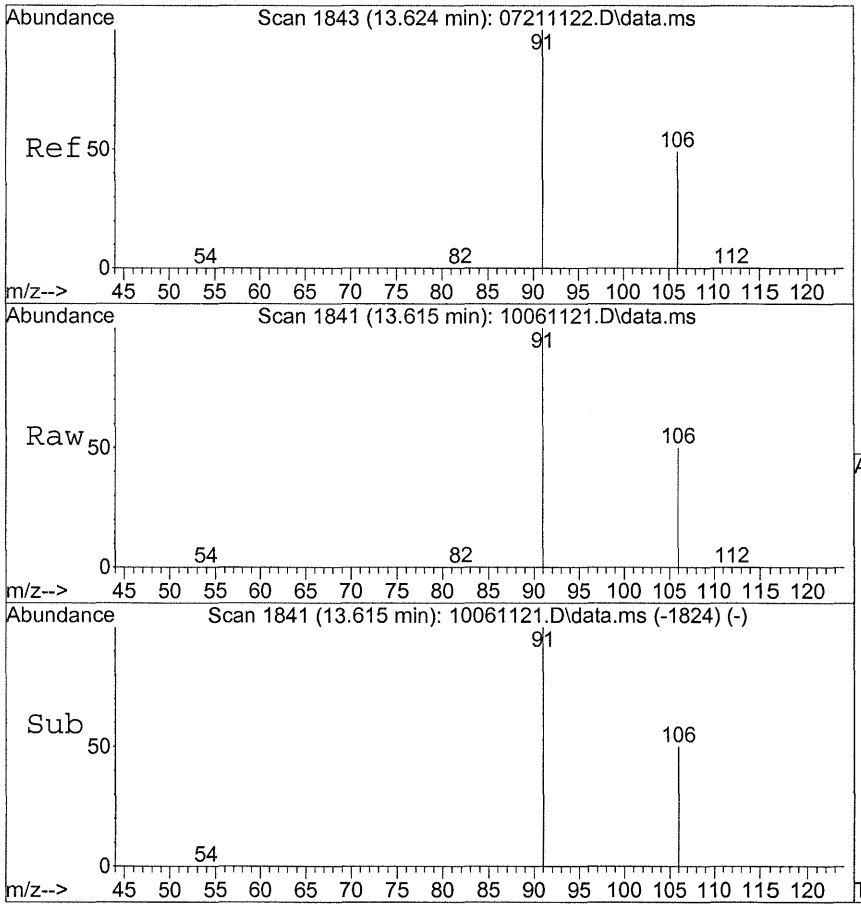


#36
Ethylbenzene
Concen: 196.16 pg
RT: 13.46 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 91 Resp: 87613

Ion	Ratio	Lower	Upper
91	100		
106	30.9	11.9	51.9

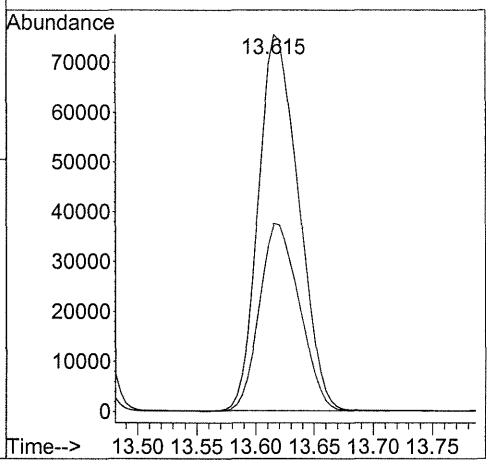


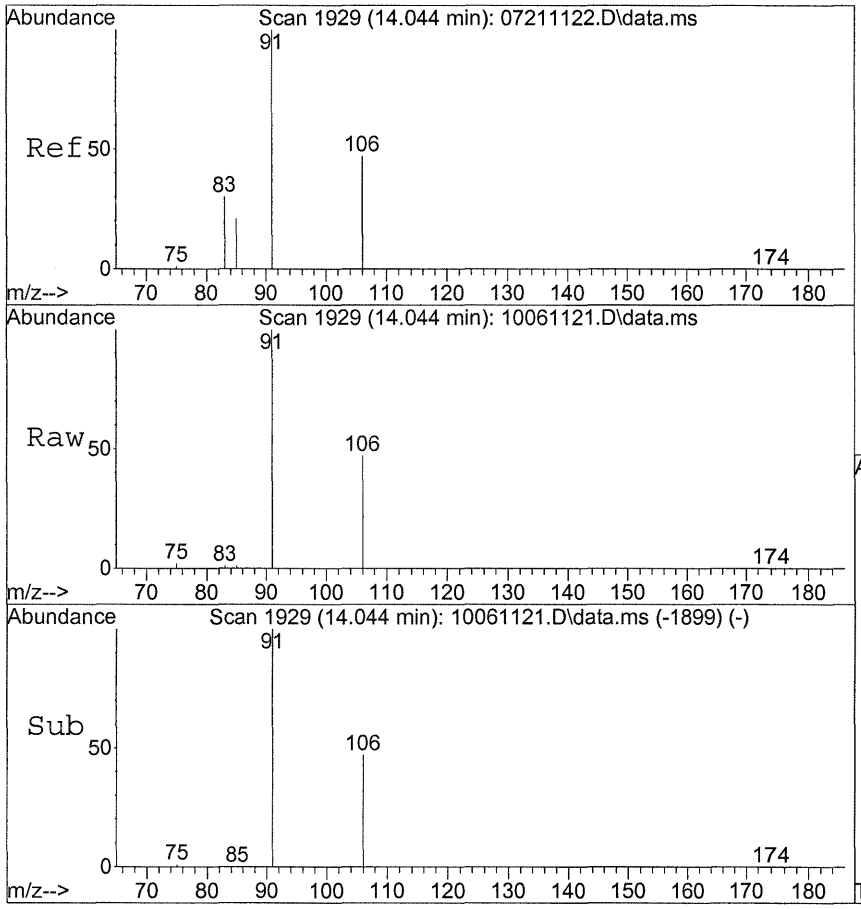


#37
m,p-Xylene
Concen: 494.94 pg
RT: 13.62 min Scan# 1841
Delta R.T. -0.009 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 91 Resp: 179981

Ion	Ratio	Lower	Upper
91	100		
106	49.6	30.3	70.3

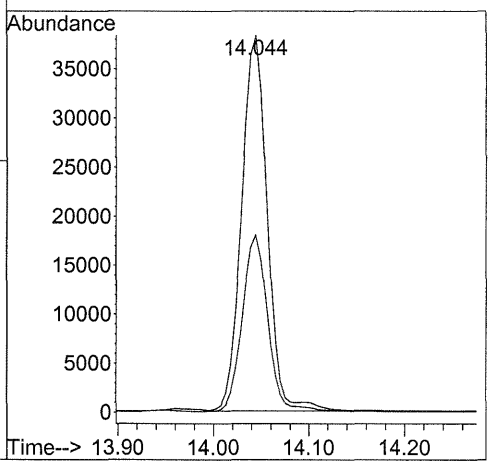


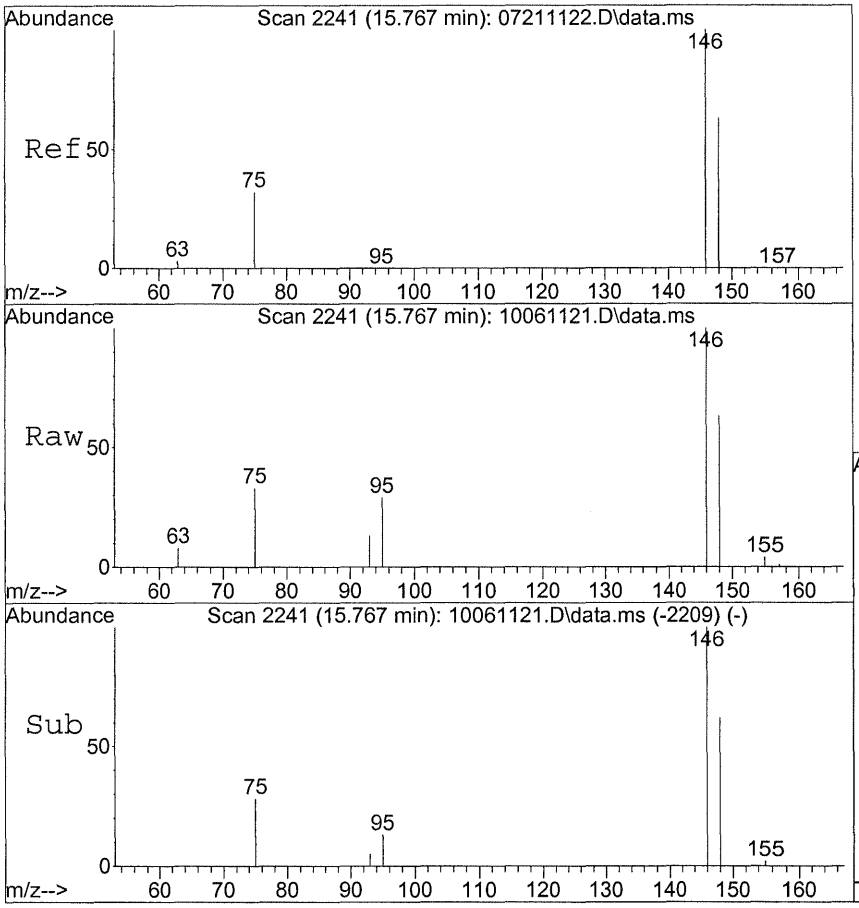


#38
o-Xylene
Concen: 191.67 pg
RT: 14.04 min Scan# 1929
Delta R.T. 0.000 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion: 91 Resp: 71105

Ion	Ratio	Lower	Upper
91	100		
106	46.9	28.4	68.4

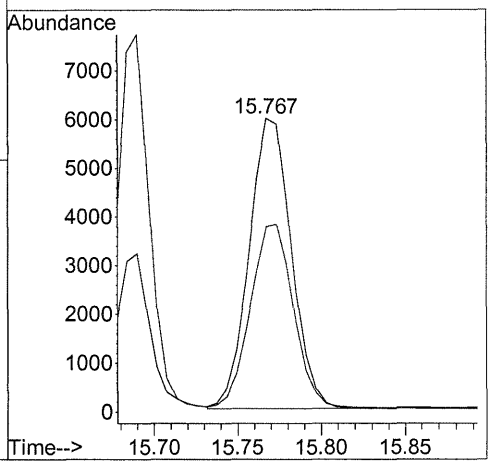


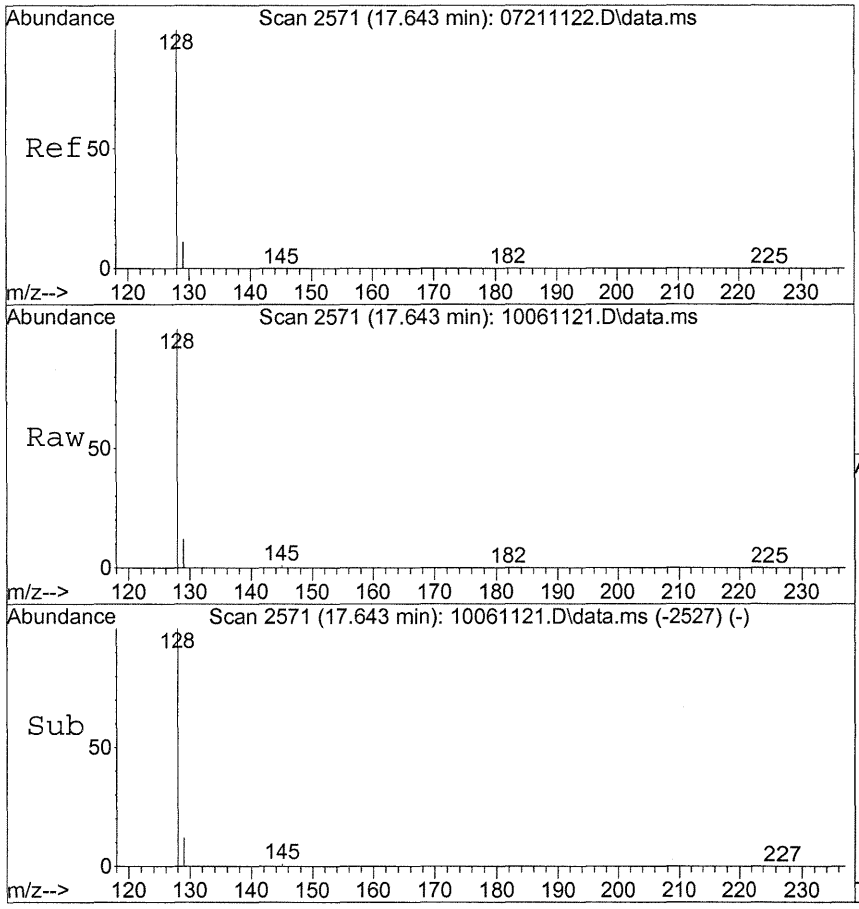


#42
1,4-Dichlorobenzene
Concen: 47.29 pg
RT: 15.77 min Scan# 2241
Delta R.T. 0.000 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion:146 Resp: 10468

Ion	Ratio	Lower	Upper
146	100		
148	63.9	42.9	82.9

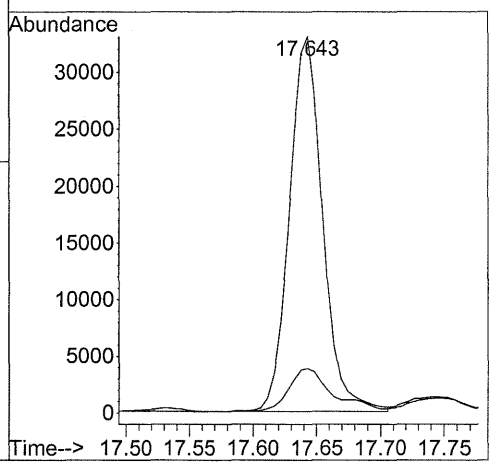




#45
Naphthalene
Concen: 110.35 pg
RT: 17.64 min Scan# 2571
Delta R.T. -0.000 min
Lab File: 10061121.D
Acq: 6 Oct 2011 18:27

Tgt Ion:128 Resp: 60069

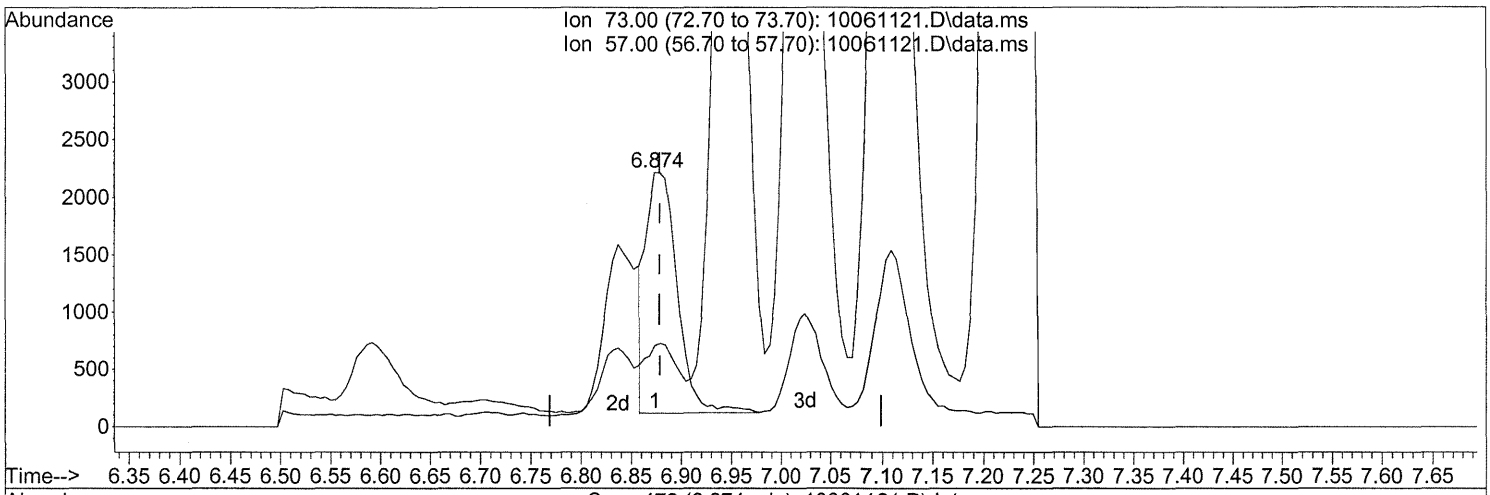
Ion	Ratio	Lower	Upper
128	100		
129	15.2	0.0	30.9

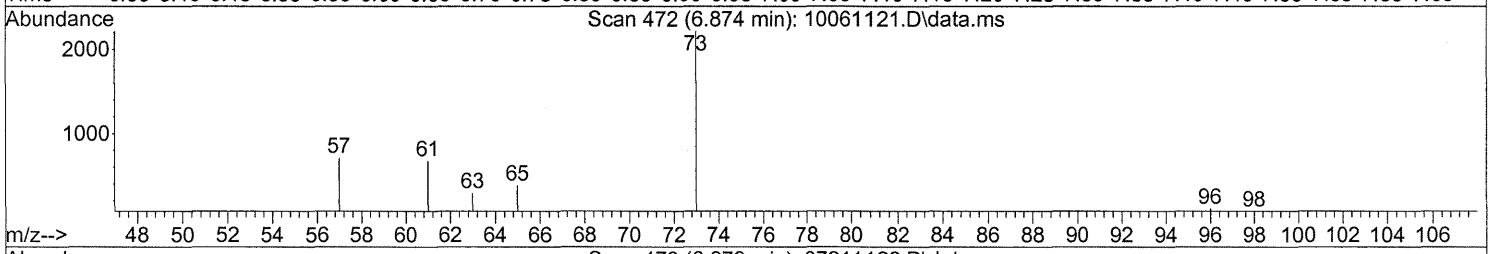


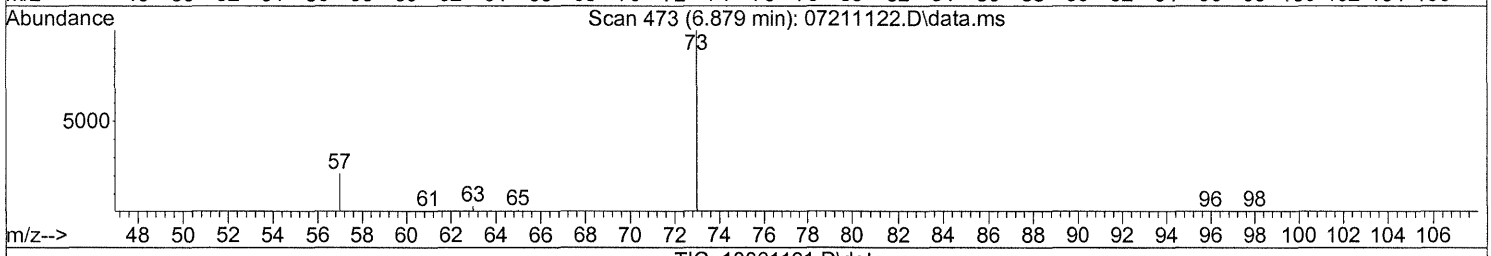
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061121.D\data.ms

(14) Methyl tert-Butyl Ether (T)

6.874min (-0.005) 14.83pg

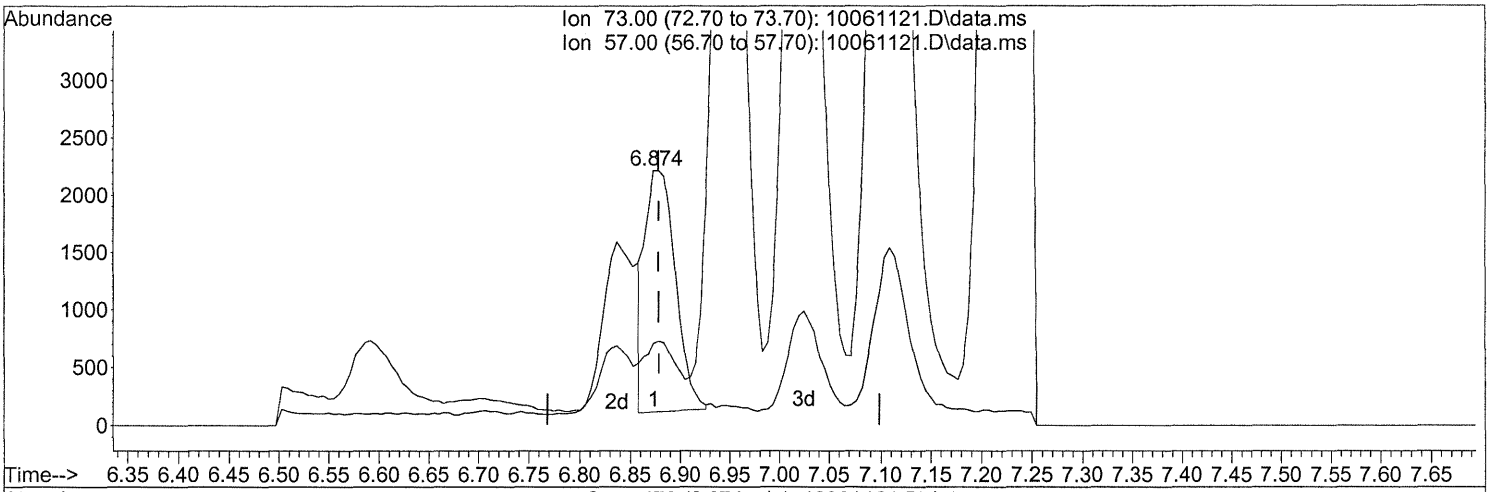
response 4585

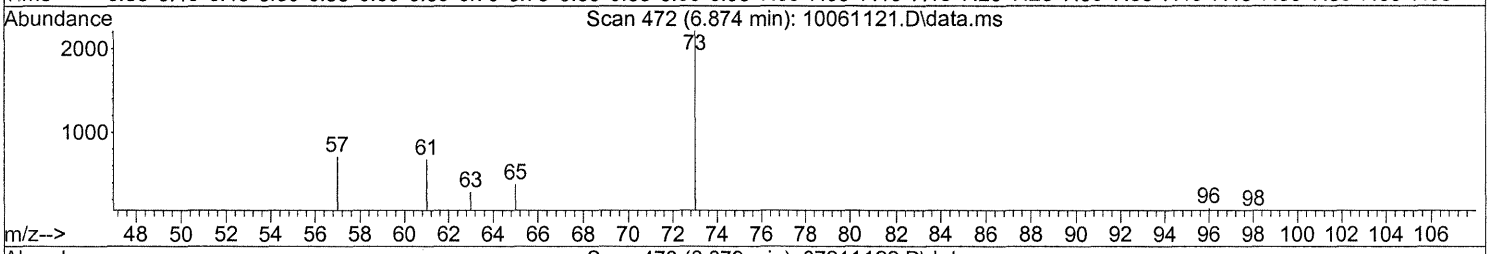
Ion	Exp%	Act%
73.00	100	100
57.00	21.20	19.21
0.00	0.00	0.00
0.00	0.00	0.00

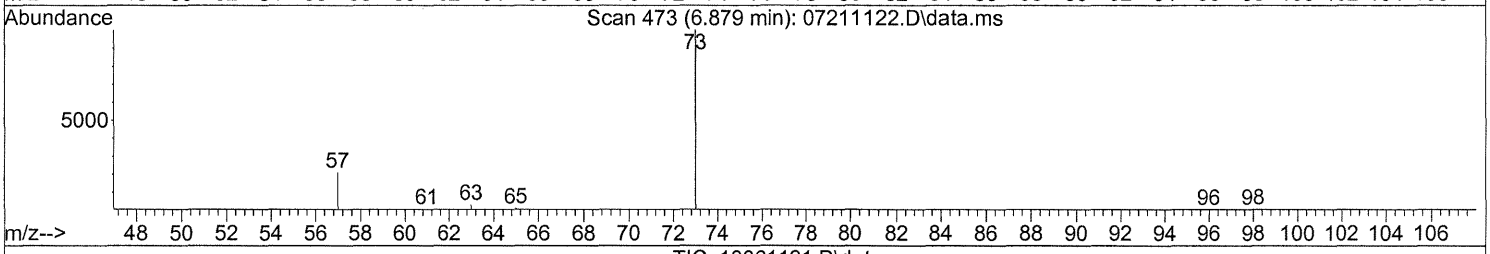
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061121.D\data.ms

(14) Methyl tert-Butyl Ether (T)

6.874min (-0.005) 14.41pg m

response 4453

Ion	Exp%	Act%
73.00	100	100
57.00	21.20	19.78
0.00	0.00	0.00
0.00	0.00	0.00

BLC

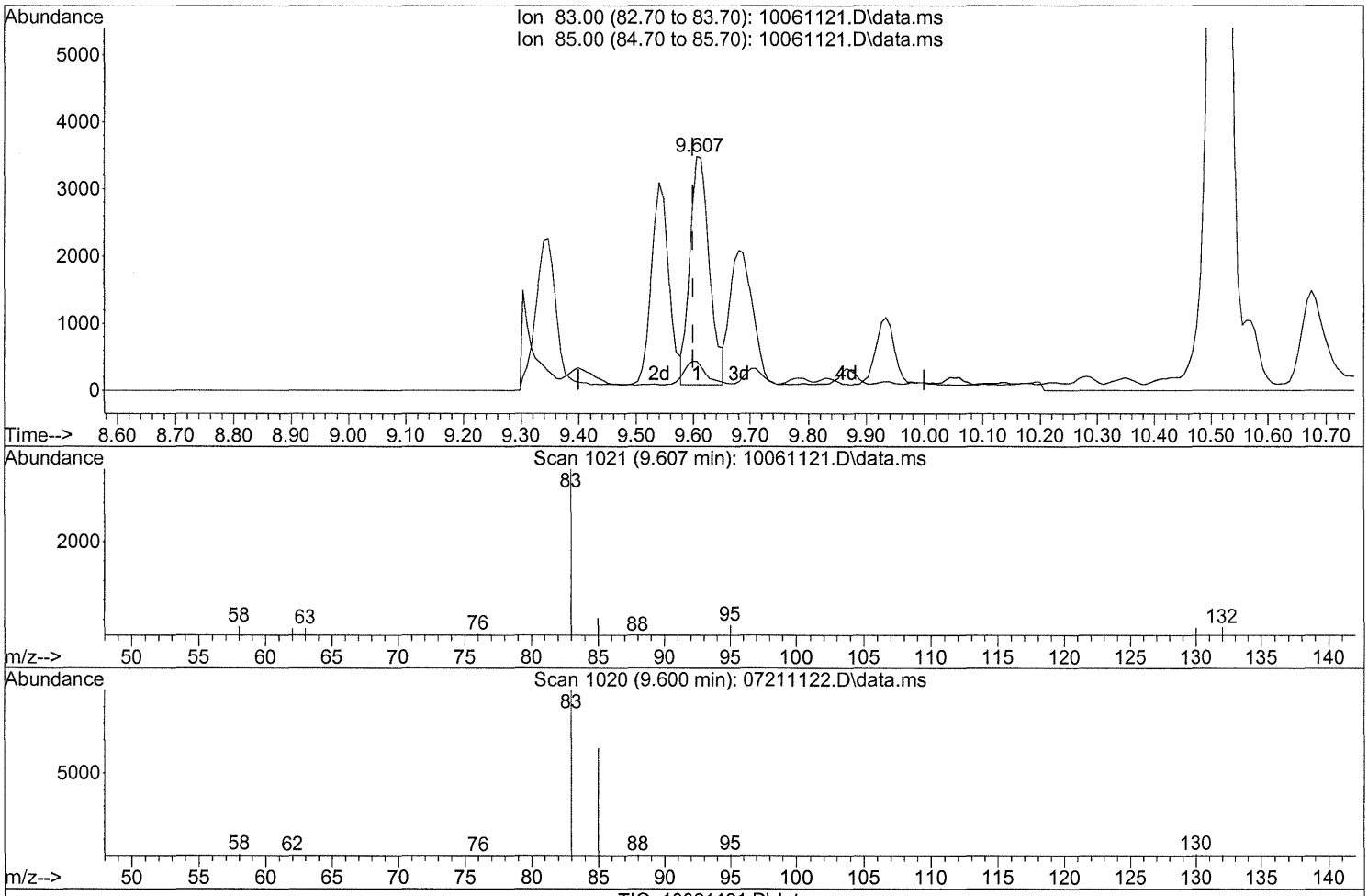
RBA 10/7/11

MR 10/7/11

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061121.D\data.ms

(24) Bromodichloromethane (T)

9.607min (+0.007) 66.08pg

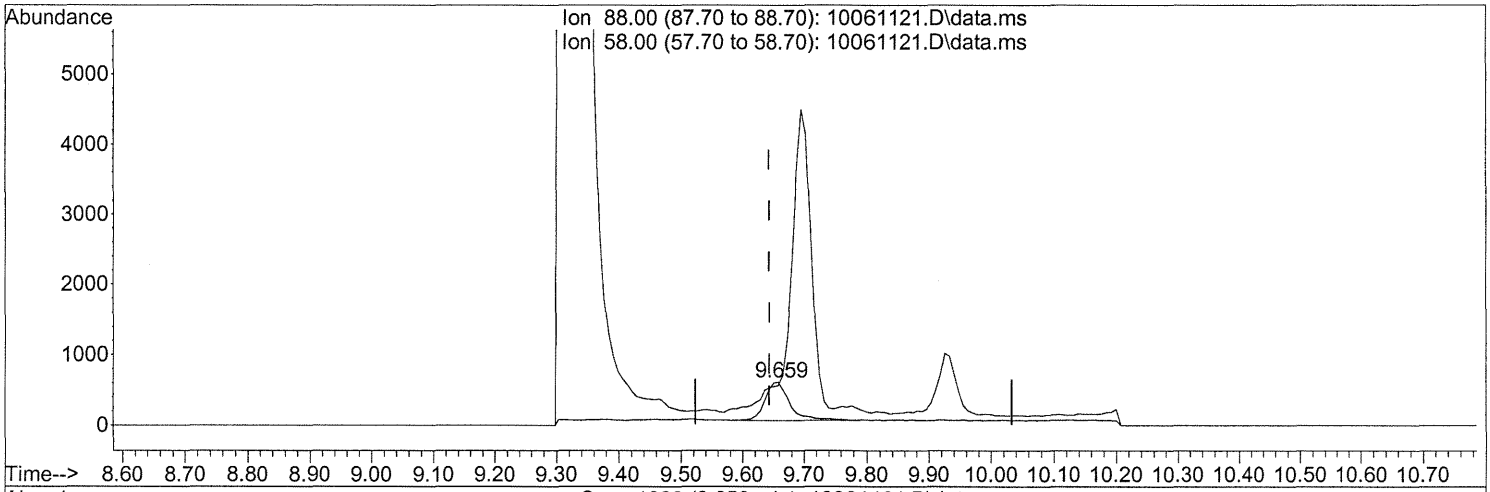
response 8117

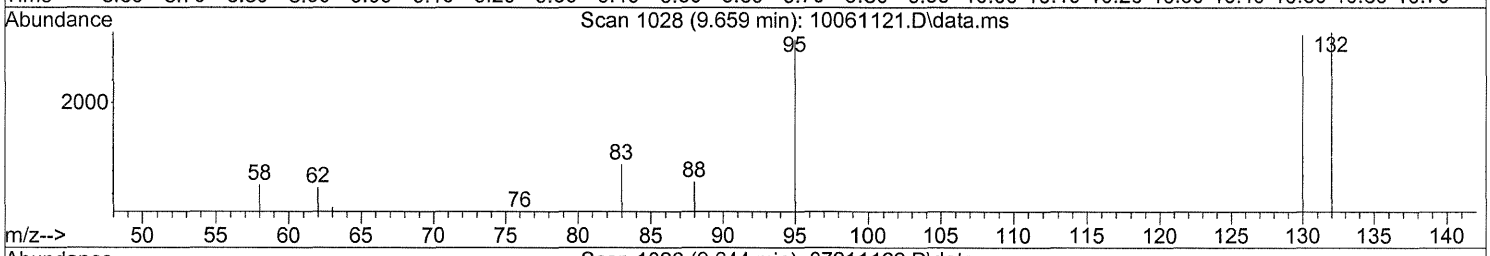
Ion	Exp%	Act%
83.00	100	100
85.00	63.50	11.78#
0.00	0.00	0.00
0.00	0.00	0.00

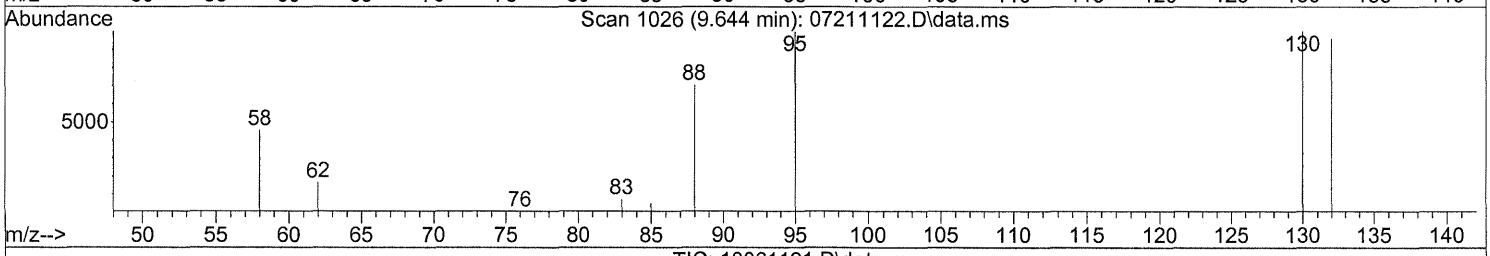
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061121.D\data.ms

(26) 1,4-Dioxane (T)

9.659min (+0.015) 19.44pg

response 1539

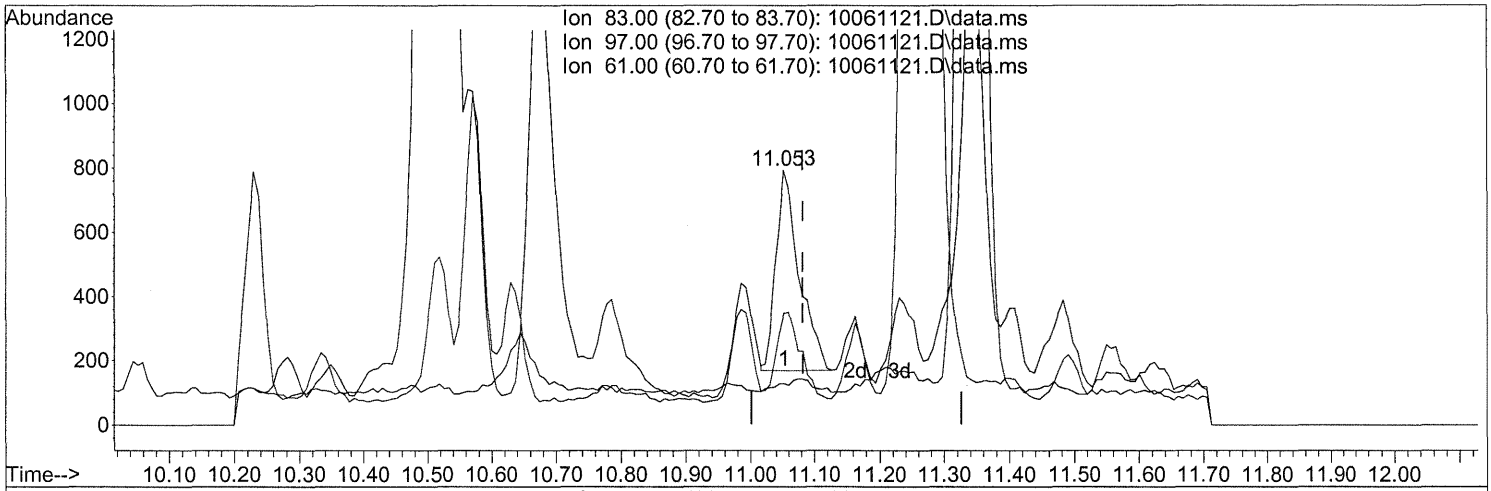
FP

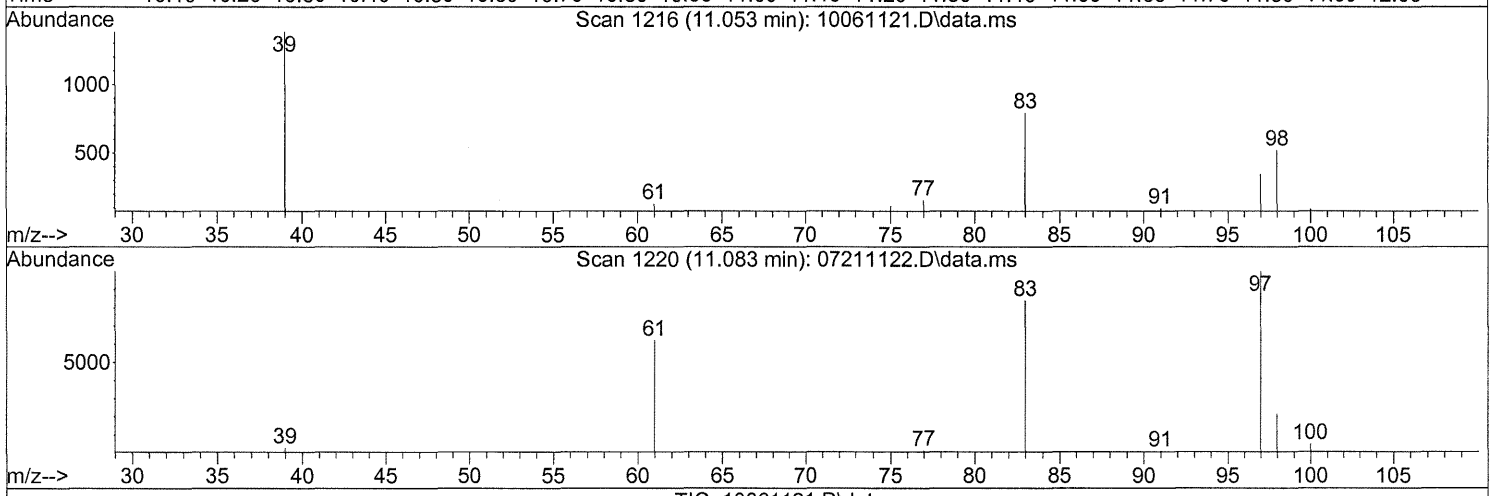
Ion	Exp%	Act%
88.00	100	100
58.00	63.80	646.33#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration





TIC: 10061121.D\data.ms

(29) 1,1,2-Trichloroethane (T)

11.053min (-0.030) 21.20pg

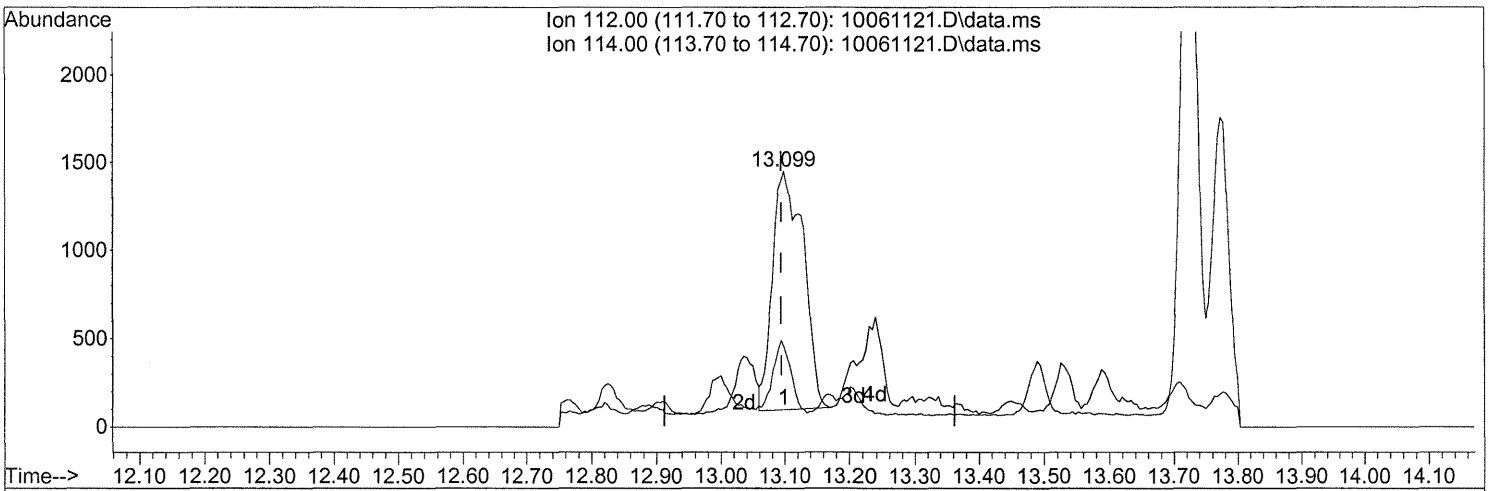
response 1584

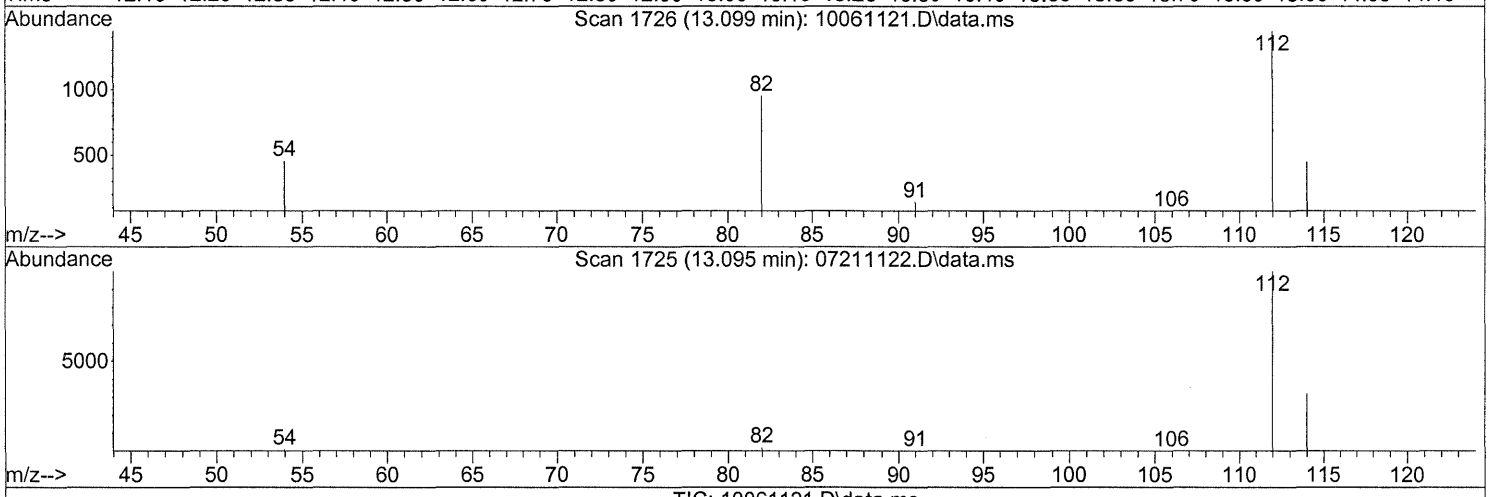
Ion	Exp%	Act%
83.00	100	100
97.00	120.30	0.00#
61.00	77.00	8.96#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration





TIC: 10061121.D\data.ms

(35) Chlorobenzene (T)

13.099min (+0.004) 18.06pg

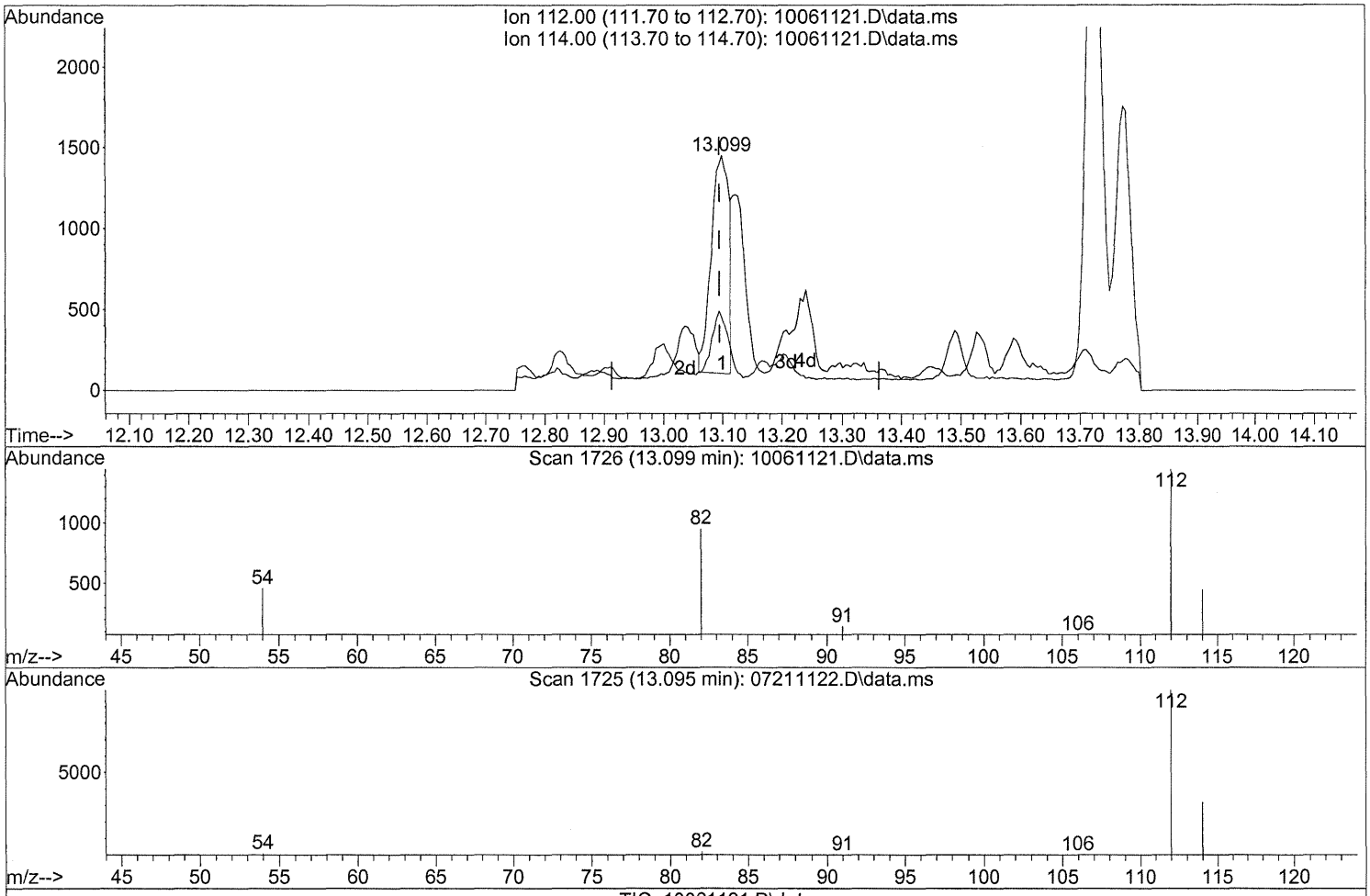
response 4584

Ion	Exp%	Act%
112.00	100	100
114.00	31.90	18.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061121.D\data.ms

(35) Chlorobenzene (T)

13.099min (+0.004) 11.06pg m

response 2806

Ion	Exp%	Act%
112.00	100	100
114.00	31.90	30.93
0.00	0.00	0.00
0.00	0.00	0.00

IPC

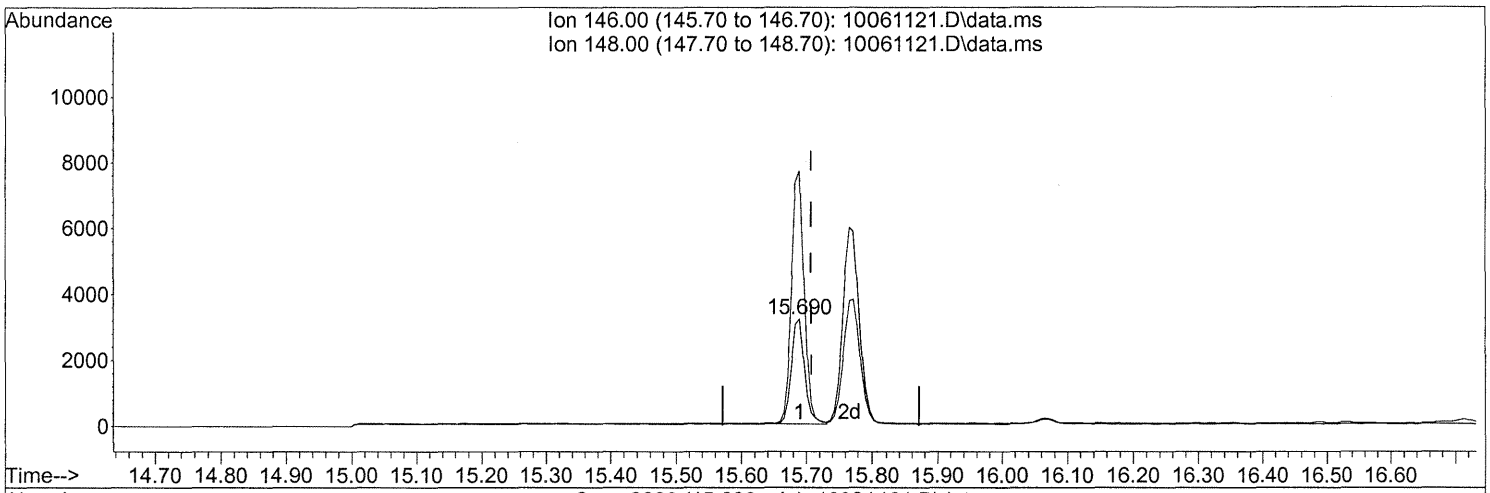
10/7/11

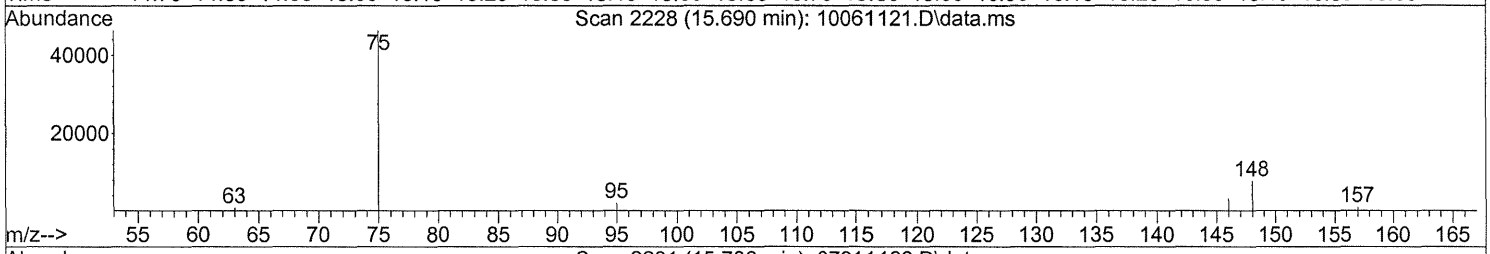
10/7/11

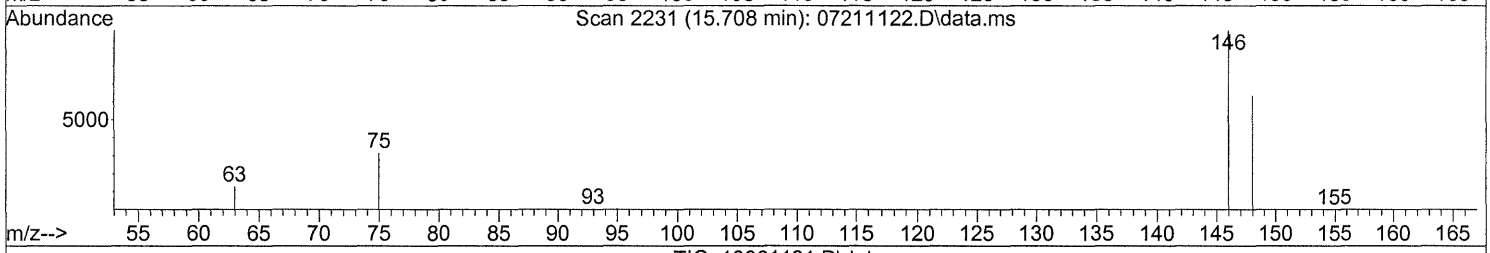
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061121.D\data.ms

(41) 1,3-Dichlorobenzene (T)

15.690min (-0.018) 20.50pg

response 4516

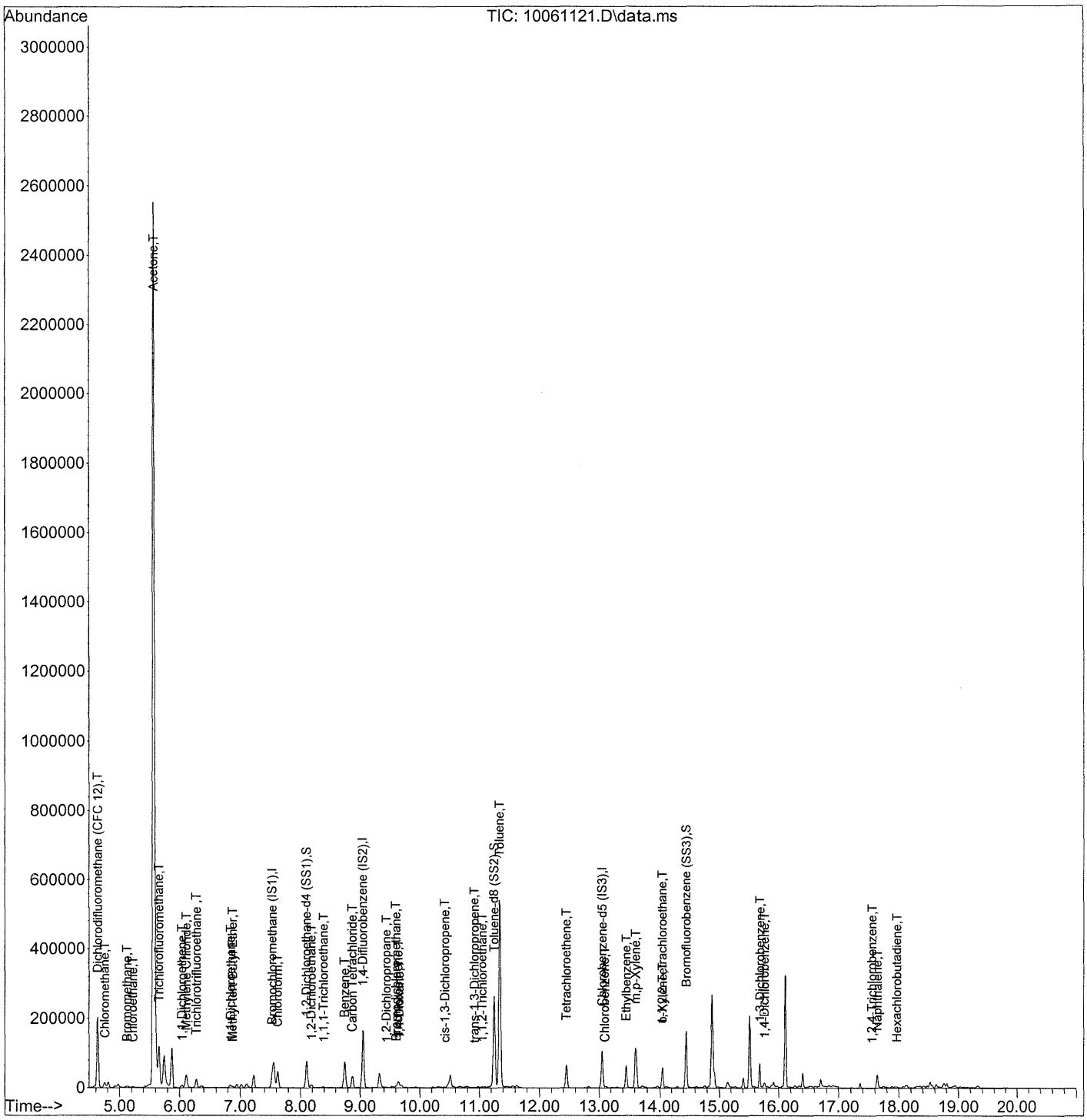
Ion	Exp%	Act%
146.00	100	100
148.00	64.10	227.88#
0.00	0.00	0.00
0.00	0.00	0.00

FP

Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	63744	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	298436	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	148944	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.10	65	118416	950.18	pg		0.00
Spiked Amount 1000.000			Recovery = 95.02%				
30) Toluene-d8 (SS2)	11.25	98	332679	1025.43	pg		0.00
Spiked Amount 1000.000			Recovery = 102.54%				
40) Bromofluorobenzene (SS3)	14.45	174	116098	979.01	pg		0.00
Spiked Amount 1000.000			Recovery = 97.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.63	85	256674	1371.39	pg		98
3) Chloromethane	4.75	52	8313	180.10	pg		95
4) Vinyl Chloride	4.89	62	399	N.D.			
5) Bromomethane	5.13	94	4123	55.75	pg		98
6) Chloroethane	5.22	64	2280	26.48	pg		87
7) Acetone	5.57	58	1355973	18452.25	pg		93
8) Trichlorofluoromethane	5.66	101	127884	729.76	pg		99
9) 1,1-Dichloroethene	6.04	96	4315	51.70	pg		91
10) Methylene Chloride	6.11	84	29072	291.55	pg		94
11) Trichlorotrifluoroethane	6.28	151	26217	325.25	pg		100
12) trans-1,2-Dichloroethene	6.71	96	241	N.D.			
13) 1,1-Dichloroethane	6.85	63	1201	7.98	pg	#	1
14) Methyl tert-Butyl Ether	6.87	73	4585	14.83	pg		96
15) cis-1,2-Dichloroethene	7.42	96	191	N.D.			
16) Chloroform	7.62	83	63124	356.41	pg		98
18) 1,2-Dichloroethane	8.19	62	6520	45.87	pg		98
19) 1,1,1-Trichloroethane	8.39	97	3202	20.39	pg		98
20) Benzene	8.75	78	131608	319.32	pg		100
21) Carbon Tetrachloride	8.87	117	36004	292.79	pg		99
23) 1,2-Dichloropropane	9.44	63	636	6.78	pg		96
24) Bromodichloromethane	9.61	83	8117	66.08	pg	#	34
25) Trichloroethene	9.64	130	11095	105.81	pg		98
26) 1,4-Dioxane	9.66	88	1539	19.44	pg	#	1
27) cis-1,3-Dichloropropene	10.43	75	651	4.41	pg	#	49
28) trans-1,3-Dichloropropene	10.92	75	497	3.66	pg		90
29) 1,1,2-Trichloroethane	11.05	83	1584	21.20	pg	#	3
31) Toluene	11.34	91	685376	1705.10	pg		100
32) 1,2-Dibromoethane	11.98	107	74	N.D.			
33) Tetrachloroethene	12.45	166	74556	662.81	pg		99
35) Chlorobenzene	13.10	112	4584	18.06	pg		77

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061121.D
Acq On : 6 Oct 2011 18:27
Operator : KR
Sample : P1103662-003 (1000mL)
Misc :
ALS Vial : 14 Sample Multiplier: 1

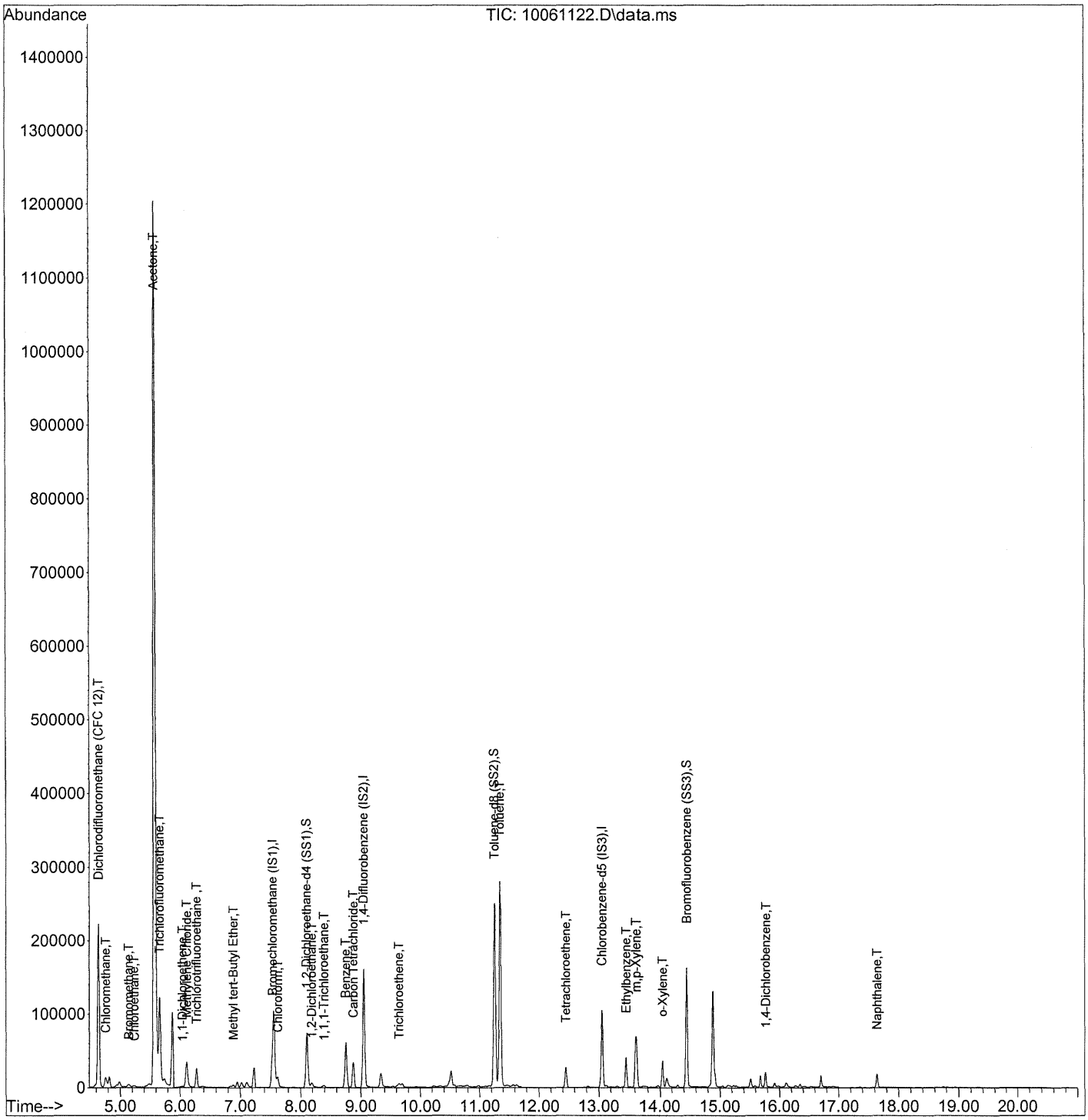
Quant Time: Oct 06 20:30:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Ethylbenzene	13.46	91	87613	196.16	pg		98
37) m,p-Xylene	13.62	91	179981	494.94	pg		99
38) o-Xylene	14.04	91	71105	191.67	pg		98
39) 1,1,2,2-Tetrachloroethane	14.04	83	578	3.52	pg		77
41) 1,3-Dichlorobenzene	15.69	146	4516	20.50	pg	#	1
42) 1,4-Dichlorobenzene	15.77	146	10468	47.29	pg		99
43) 1,2-Dichlorobenzene	16.07	146	327	N.D.			
44) 1,2,4-Trichlorobenzene	17.55	182	672	4.49	pg	#	69
45) Naphthalene	17.64	128	60069	110.35	pg		89
46) Hexachlorobutadiene	17.97	225	432	4.96	pg		99

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

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061122.D
Acq On : 6 Oct 2011 18:59
Operator : KR
Sample : P1103662-004 (1000mL)
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 20:41:14 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

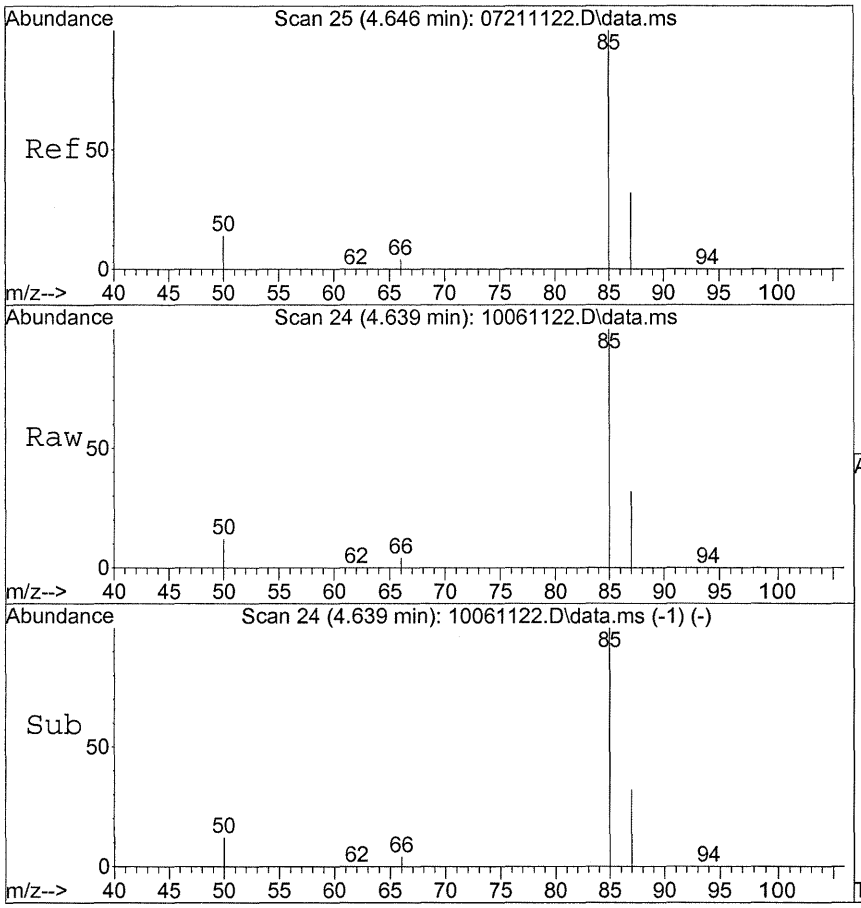
Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061122.D
Acq On : 6 Oct 2011 18:59
Operator : KR
Sample : P1103662-004 (1000mL)
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 20:41:14 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	62880	1000.00 pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	303517	1000.00 pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	148364	1000.00 pg		0.00
System Monitoring Compounds						
17) 1,2-Dichloroethane-d4 ...	8.10	65	120904	983.48 pg		0.00
Spiked Amount 1000.000			Recovery =	98.35%		
30) Toluene-d8 (SS2)	11.25	98	328778	996.44 pg		0.00
Spiked Amount 1000.000			Recovery =	99.64%		
40) Bromofluorobenzene (SS3)	14.45	174	116367	985.11 pg		0.00
Spiked Amount 1000.000			Recovery =	98.51%		
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	4.64	85	283718	1536.72 pg		98
3) Chloromethane	4.76	52	9526	209.22 pg	#	71
5) Bromomethane	5.14	94	4086	56.01 pg		99
6) Chloroethane	5.23	64	2466	29.04 pg		99
7) Acetone	5.58	58	617637	8520.37 pg	#	81
8) Trichlorofluoromethane	5.66	101	132216	764.84 pg		98
9) 1,1-Dichloroethene	6.04	96	795	9.66 pg	#	51
10) Methylene Chloride	6.12	84	28805	292.84 pg		92
11) Trichlorotrifluoroethane	6.28	151	27857	350.35 pg		100
14) Methyl tert-Butyl Ether	6.89	73	4695	15.40 pg		99
16) Chloroform	7.63	83	15793	90.40 pg		95
18) 1,2-Dichloroethane	8.19	62	5433	38.75 pg		96
19) 1,1,1-Trichloroethane	8.39	97	3267	21.09 pg		98
20) Benzene	8.75	78	108907	267.87 pg		100
21) Carbon Tetrachloride	8.88	117	37400	308.32 pg		99
25) Trichloroethene	9.64	130	3062	28.71 pg		100
31) Toluene	11.35	91	353130	863.82 pg		100
33) Tetrachloroethene	12.45	166	31290	273.51 pg		99
36) Ethylbenzene	13.46	91	55515	124.78 pg		98
37) m,p-Xylene	13.62	91	111369	307.46 pg		99
38) o-Xylene	14.04	91	43497	117.71 pg		100
42) 1,4-Dichlorobenzene	15.77	146	17632	79.96 pg		98
45) Naphthalene	17.64	128	28564	52.68 pg		96

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

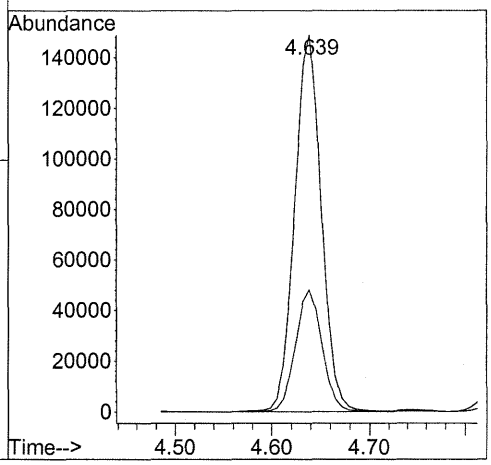
10/7/11

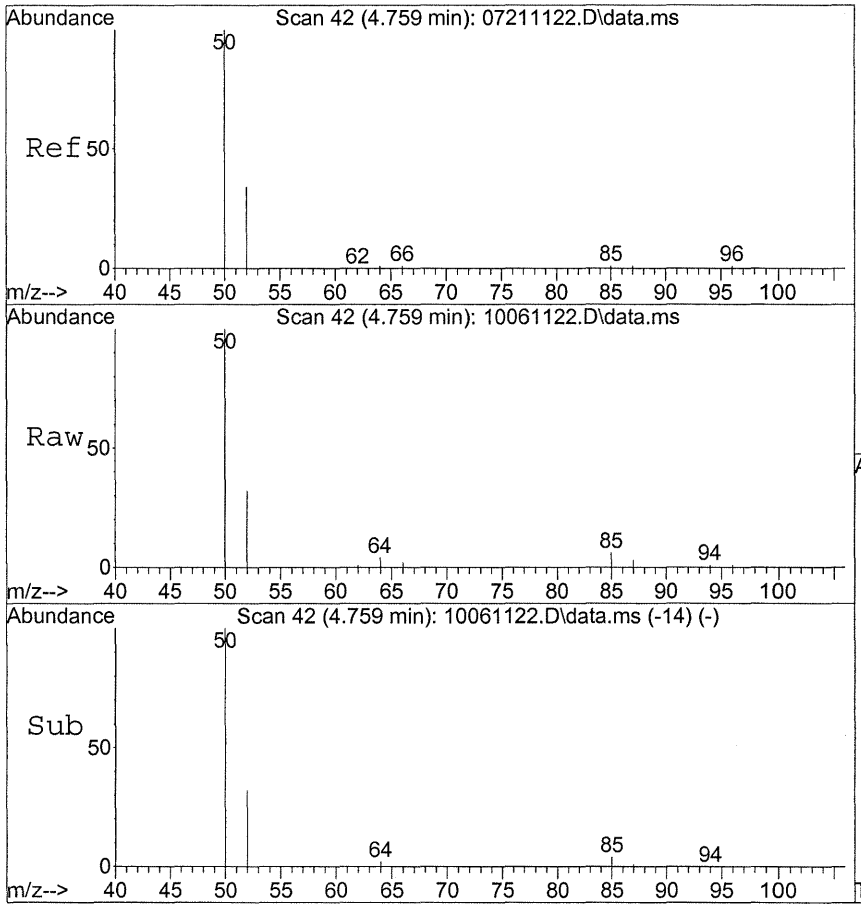


#2
Dichlorodifluoromethane (CFC
Concen: 1536.72 pg
RT: 4.64 min Scan# 24
Delta R.T. -0.007 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 85 Resp: 283718

Ion	Ratio	Lower	Upper
85	100		
87	32.3	13.3	53.3

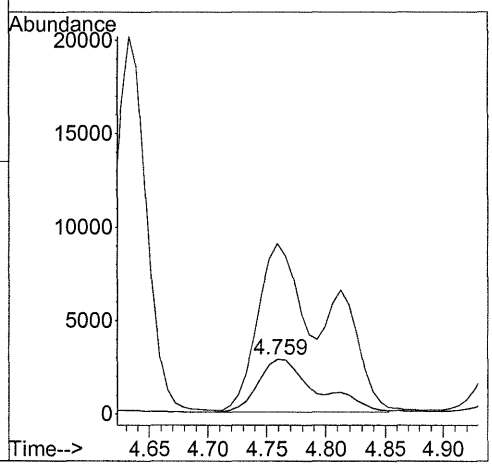


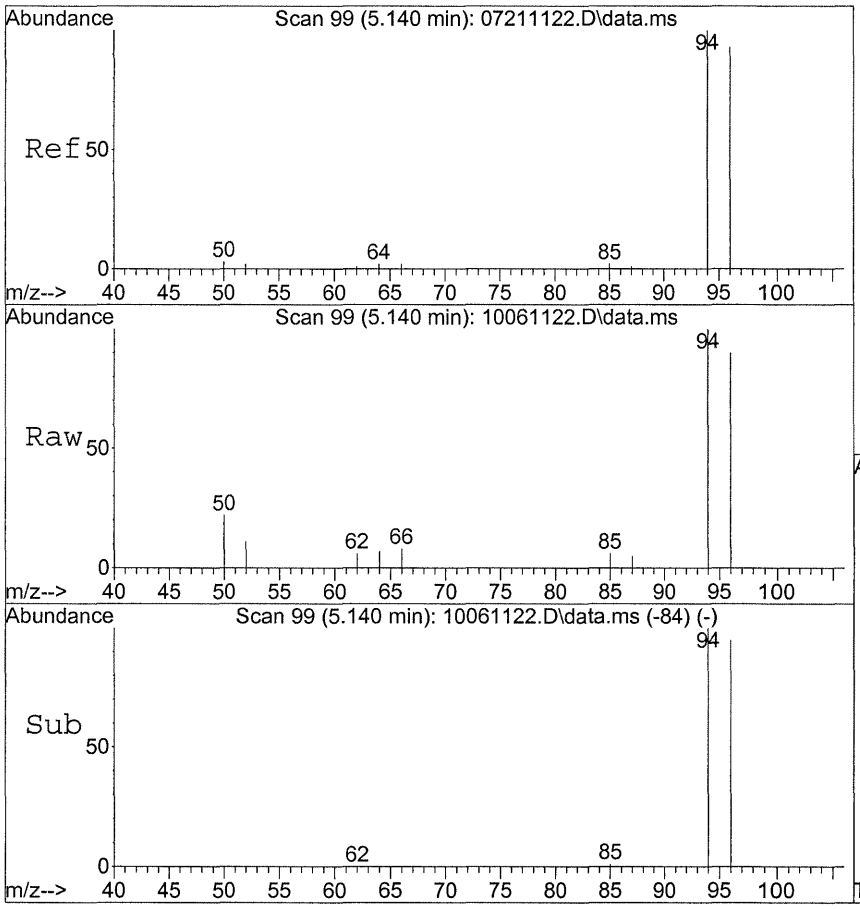


#3
Chloromethane
Concen: 209.22 pg
RT: 4.76 min Scan# 42
Delta R.T. 0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 52 Resp: 9526

Ion	Ratio	Lower	Upper
52	100		
50	247.0	285.3	325.3#

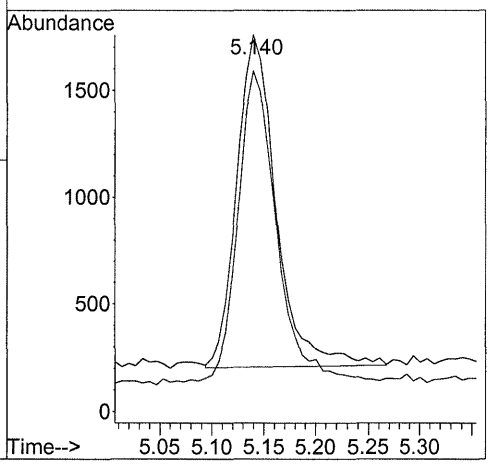


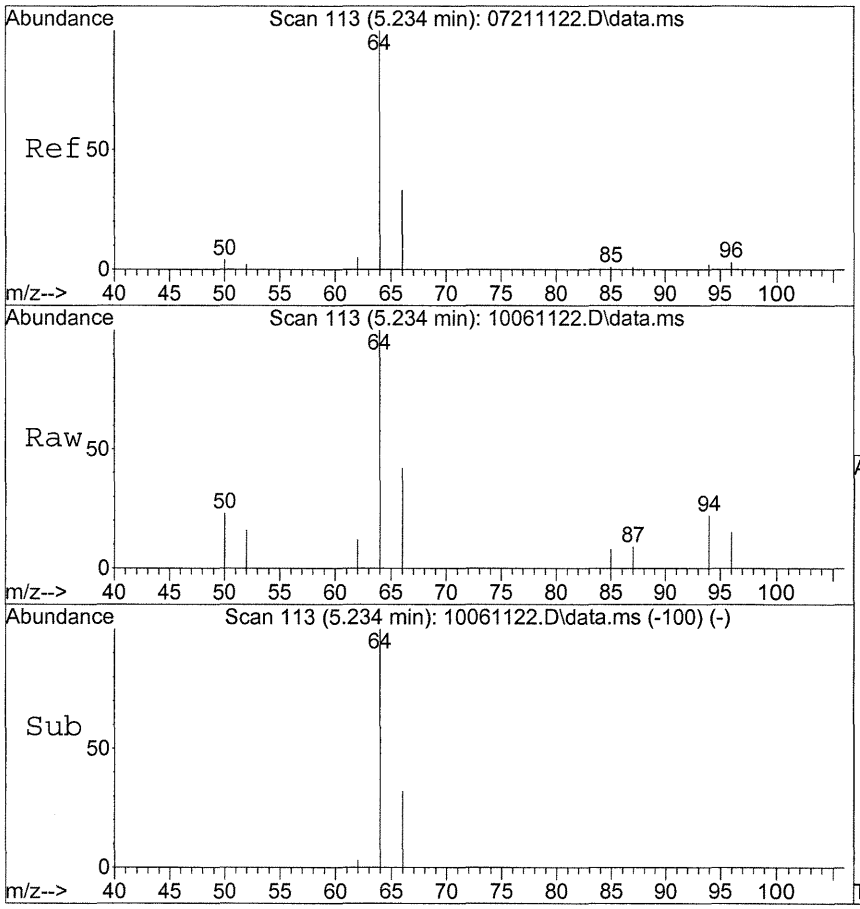


#5
Bromomethane
Concen: 56.01 pg
RT: 5.14 min Scan# 99
Delta R.T. 0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 94 Resp: 4086

Ion	Ratio	Lower	Upper
94	100		
96	92.3	74.2	111.4

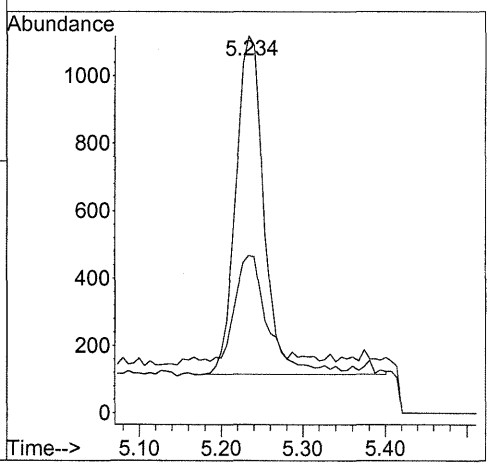


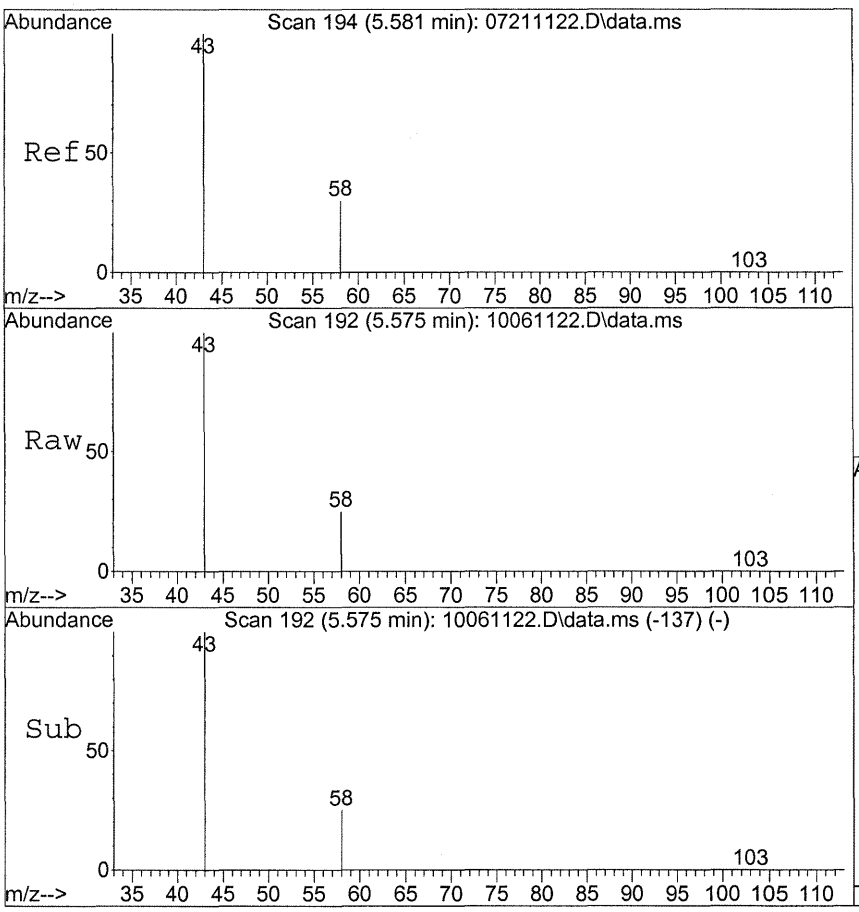


#6
Chloroethane
Concen: 29.04 pg
RT: 5.23 min Scan# 113
Delta R.T. -0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 64 Resp: 2466

Ion	Ratio	Lower	Upper
64	100		
66	31.4	12.0	52.0

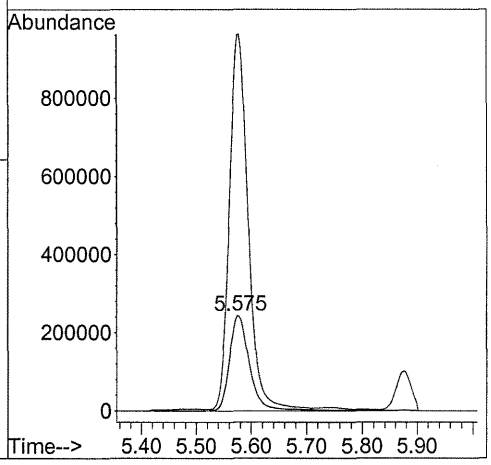


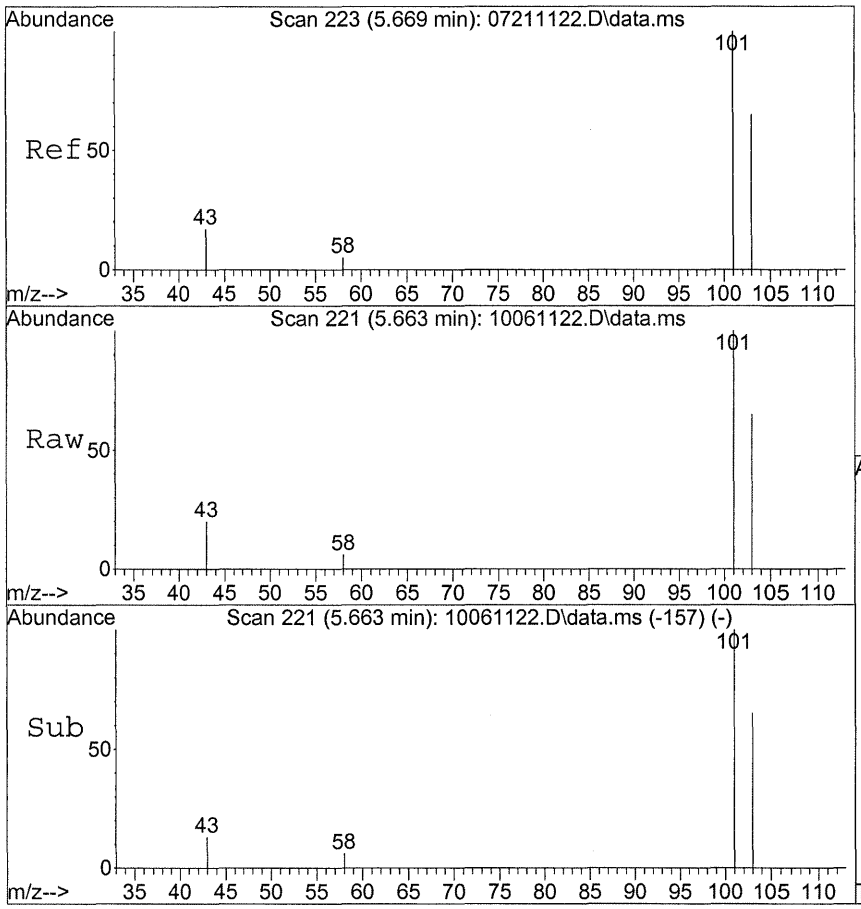


#7
Acetone
Concen: 8520.37 pg
RT: 5.58 min Scan# 192
Delta R.T. -0.006 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 58 Resp: 617637

Ion	Ratio	Lower	Upper
58	100		
43	365.7	307.2	347.2#

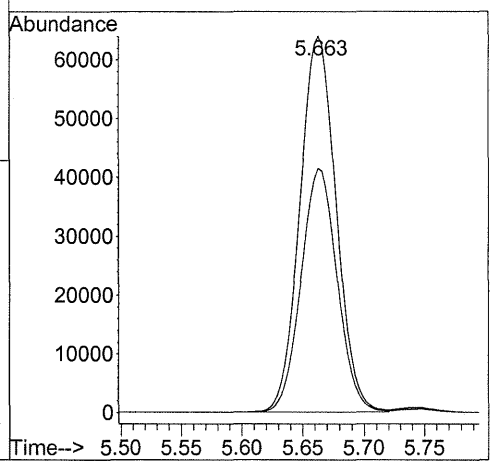


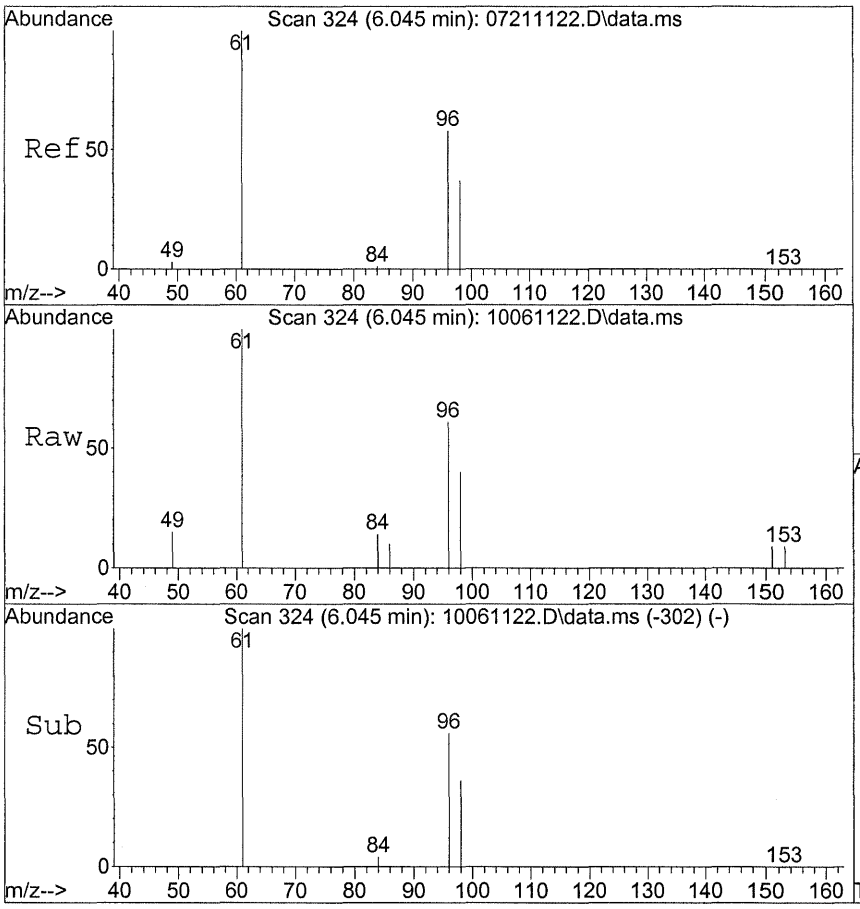


#8
Trichlorofluoromethane
Concen: 764.84 pg
RT: 5.66 min Scan# 221
Delta R.T. -0.006 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion:101 Resp: 132216

Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.6	75.8

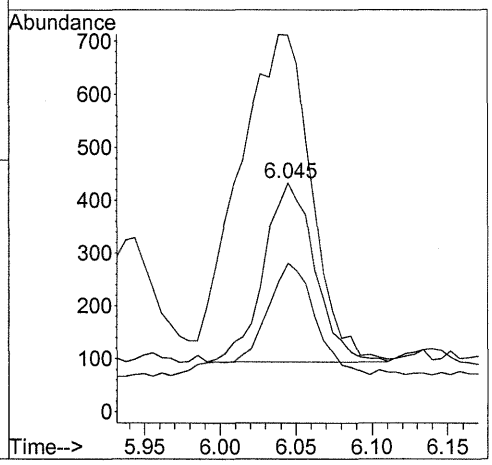


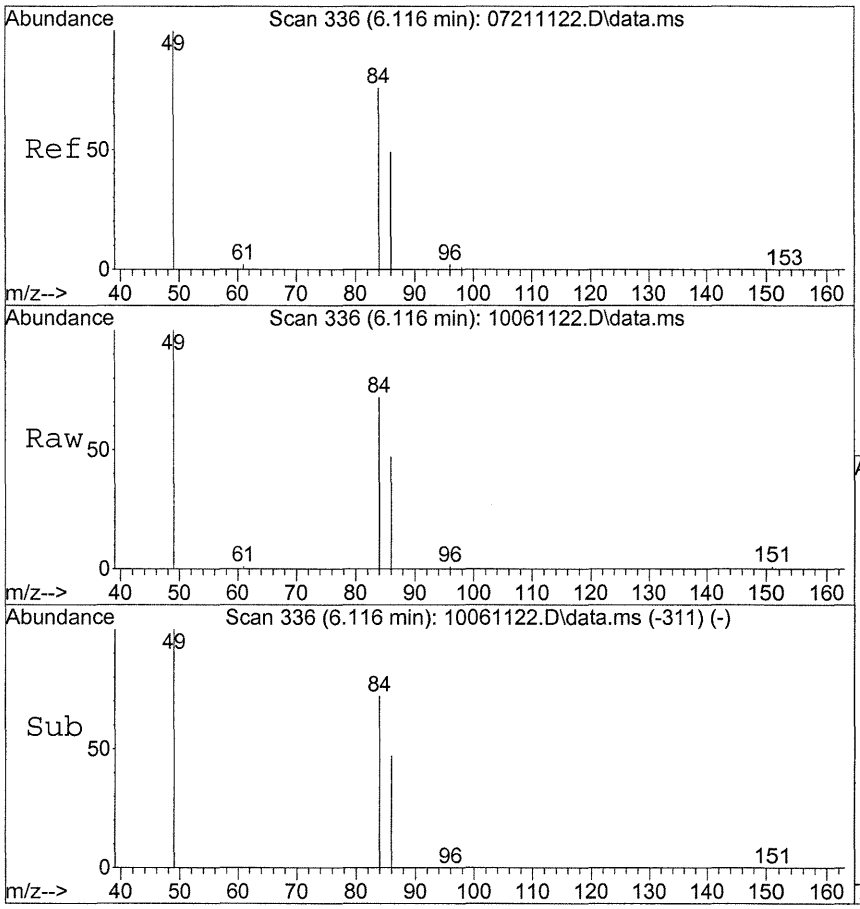


#9
1,1-Dichloroethene
Concen: 9.66 pg
RT: 6.04 min Scan# 324
Delta R.T. -0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 96 Resp: 795

Ion	Ratio	Lower	Upper
96	100		
98	68.3	43.8	83.8
61	252.7	145.1	185.1#

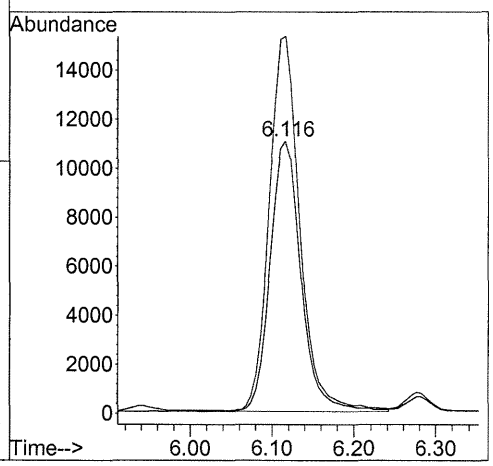


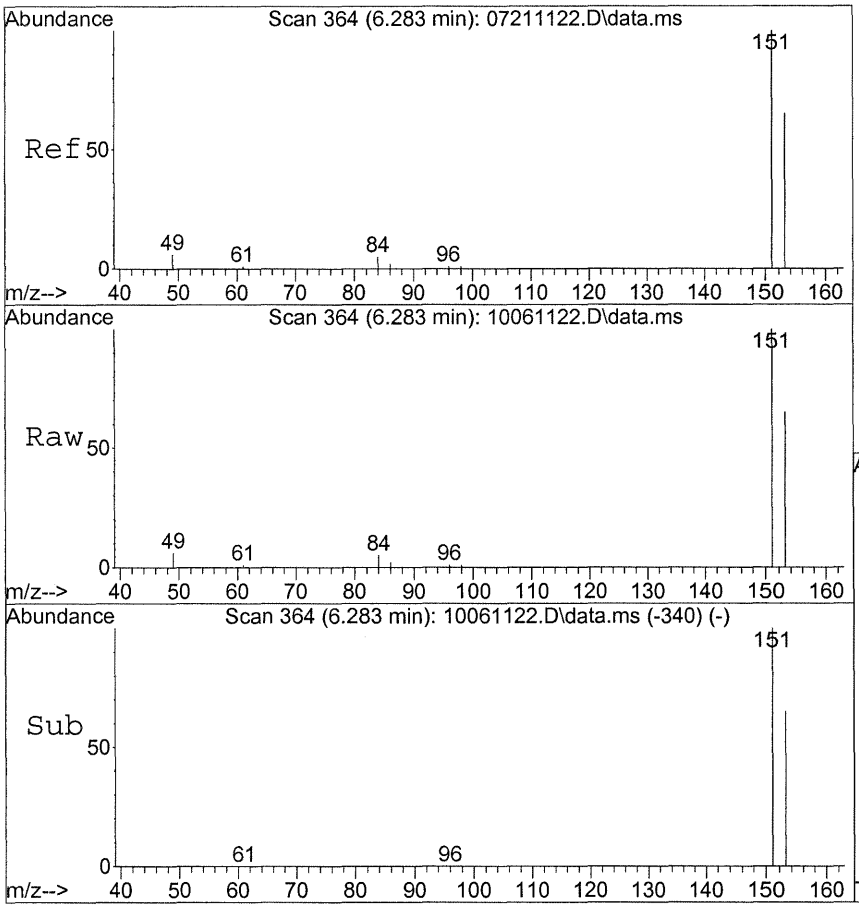


#10
Methylene Chloride
Concen: 292.84 pg
RT: 6.12 min Scan# 336
Delta R.T. 0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 84 Resp: 28805

Ion	Ratio	Lower	Upper
84	100		
49	136.6	107.9	147.9

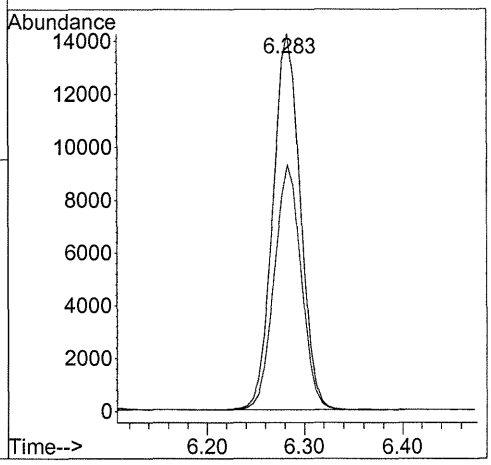


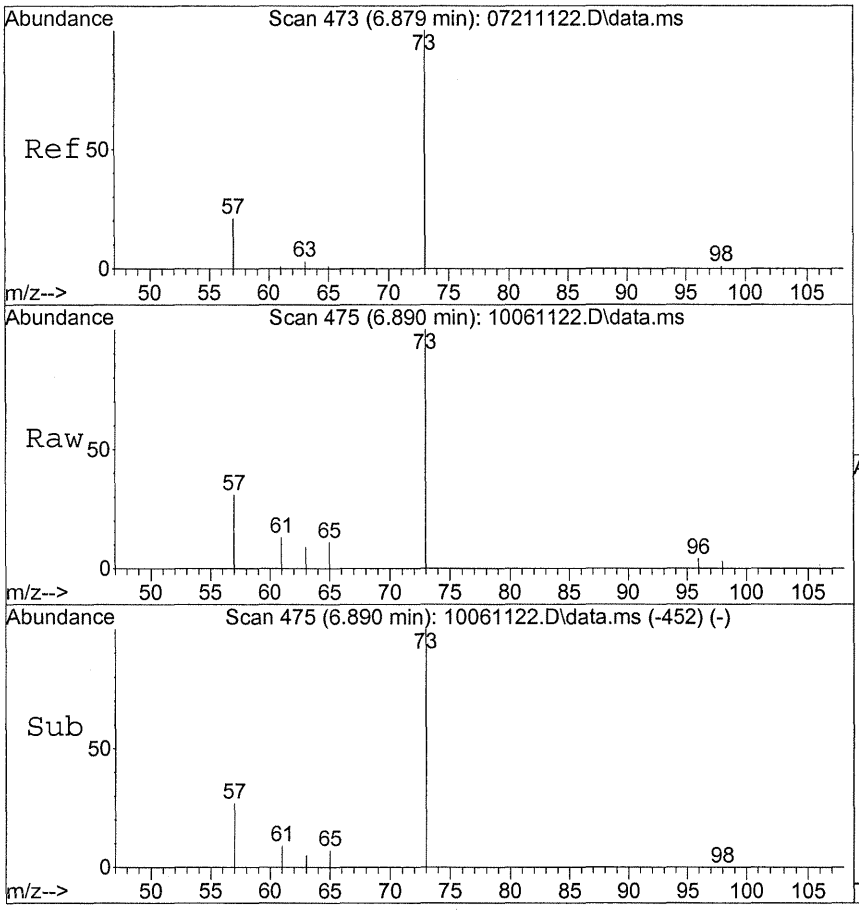


#11
Trichlorotrifluoroethane
Concen: 350.35 pg
RT: 6.28 min Scan# 364
Delta R.T. -0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion:151 Resp: 27857

Ion	Ratio	Lower	Upper
151	100		
153	64.1	44.1	84.1

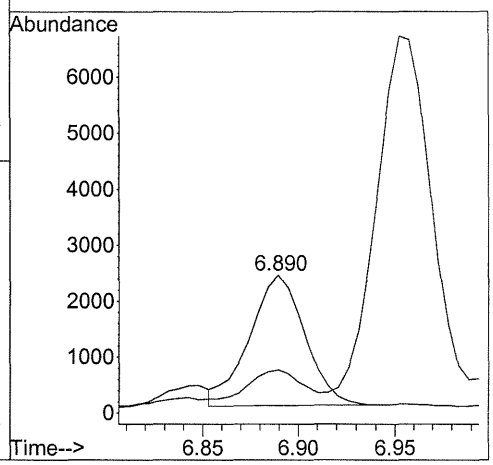


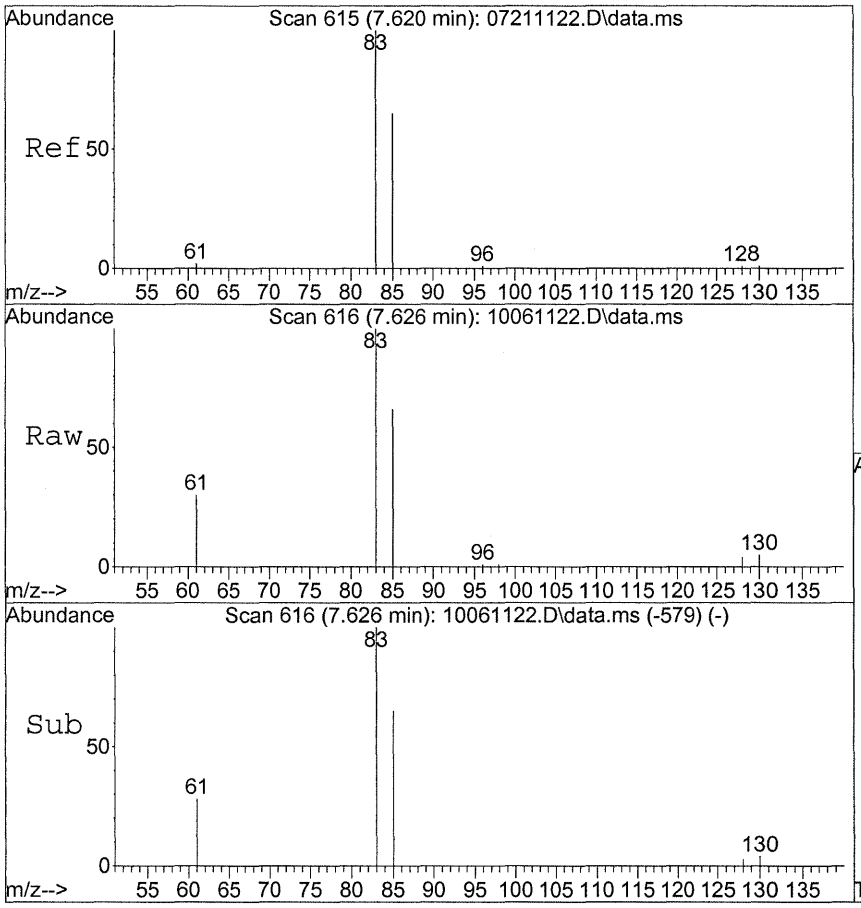


#14
Methyl tert-Butyl Ether
Concen: 15.40 pg
RT: 6.89 min Scan# 475
Delta R.T. 0.011 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 73 Resp: 4695

Ion	Ratio	Lower	Upper
73	100		
57	21.4	1.2	41.2

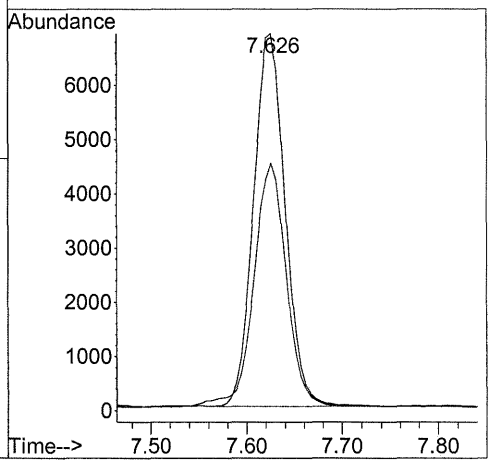


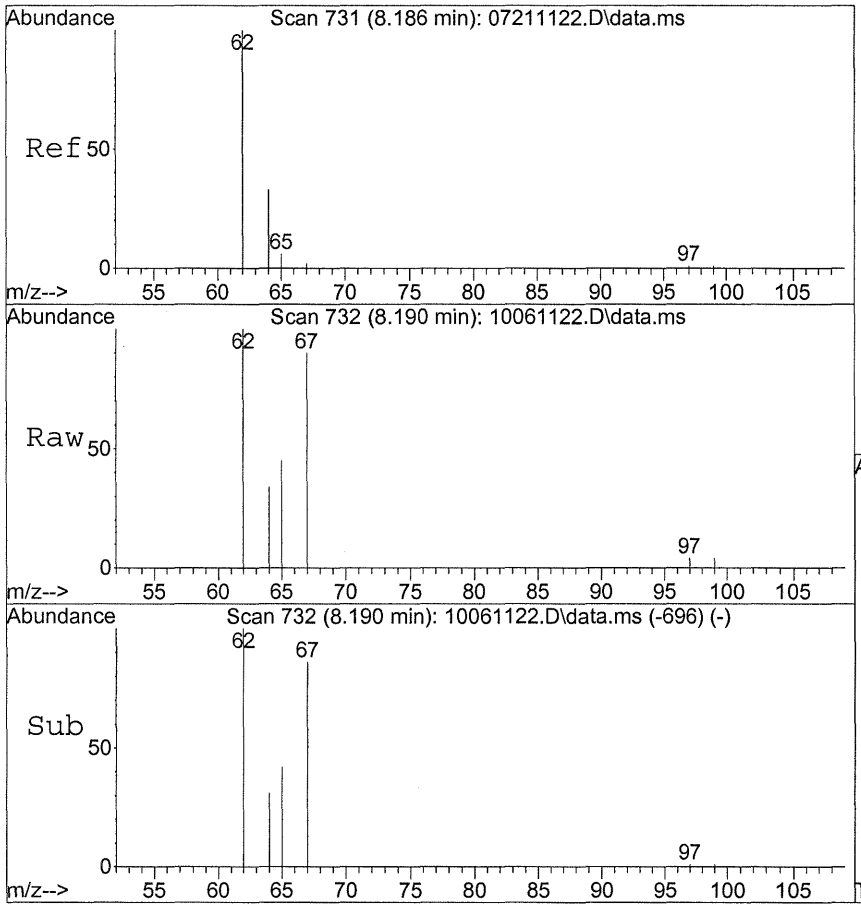


#16
Chloroform
Concen: 90.40 pg
RT: 7.63 min Scan# 616
Delta R.T. 0.006 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 83 Resp: 15793

Ion	Ratio	Lower	Upper
83	100		
85	68.3	44.4	84.4

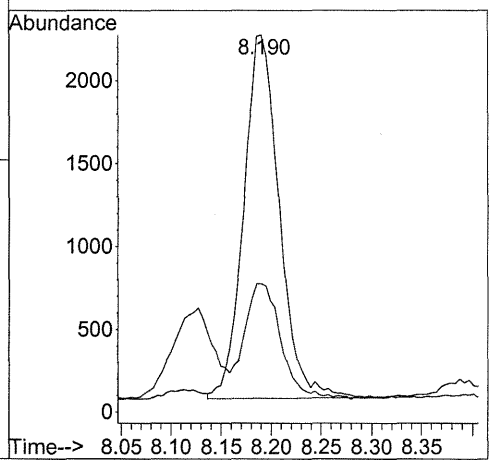


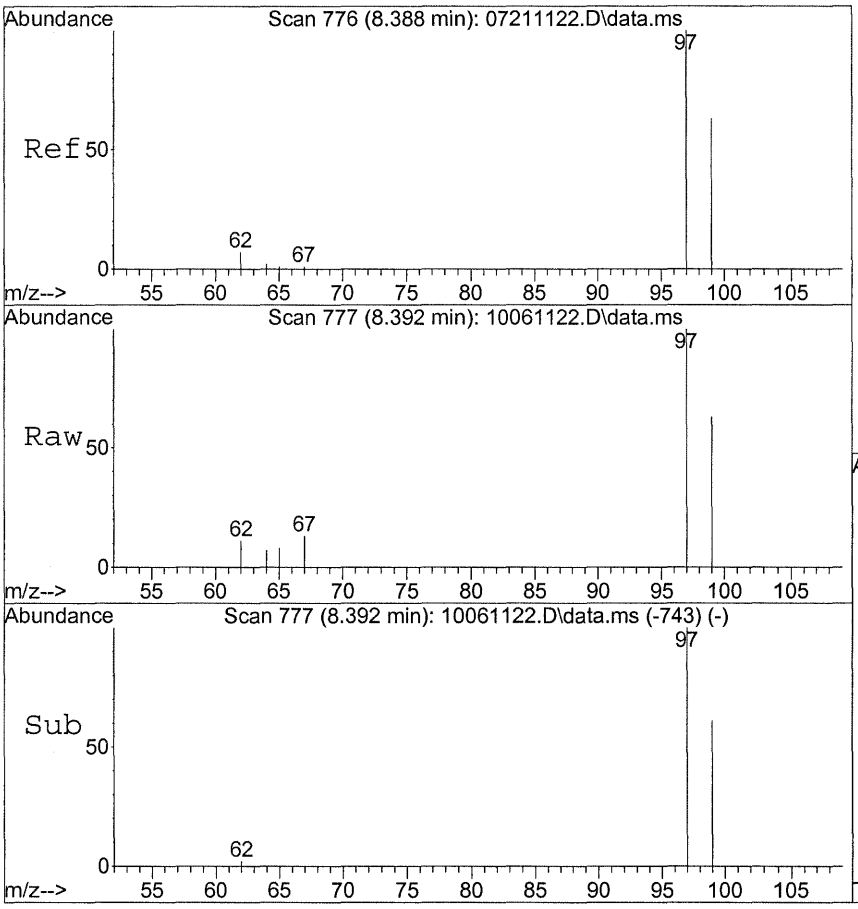


#18
1,2-Dichloroethane
Concen: 38.75 pg
RT: 8.19 min Scan# 732
Delta R.T. 0.004 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 62 Resp: 5433

Ion	Ratio	Lower	Upper
62	100		
64	32.7	10.3	50.3

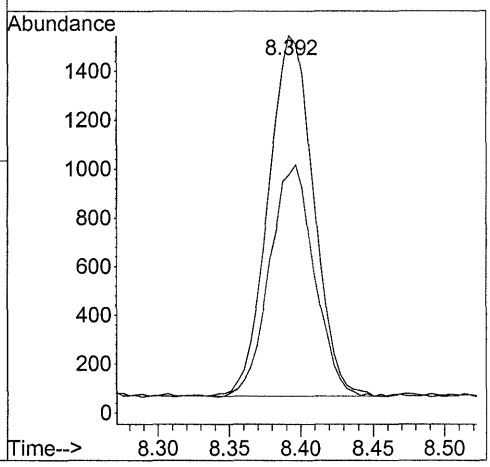


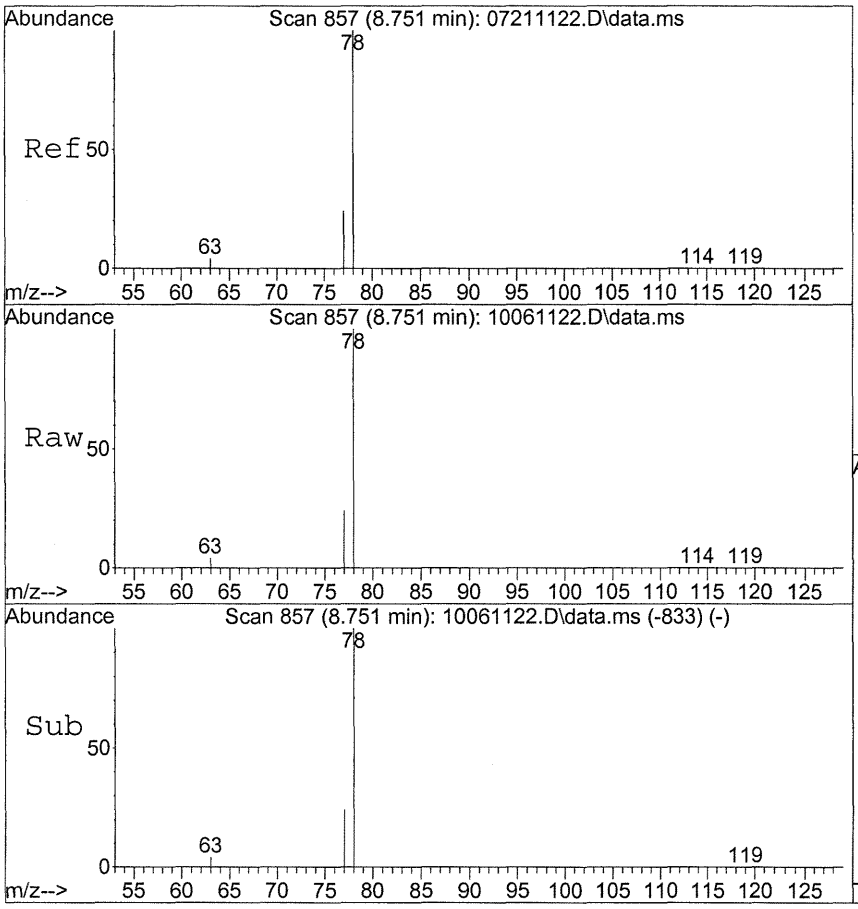


#19
1,1,1-Trichloroethane
Concen: 21.09 pg
RT: 8.39 min Scan# 777
Delta R.T. 0.004 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 97 Resp: 3267

Ion	Ratio	Lower	Upper
97	100		
99	63.6	45.2	85.2

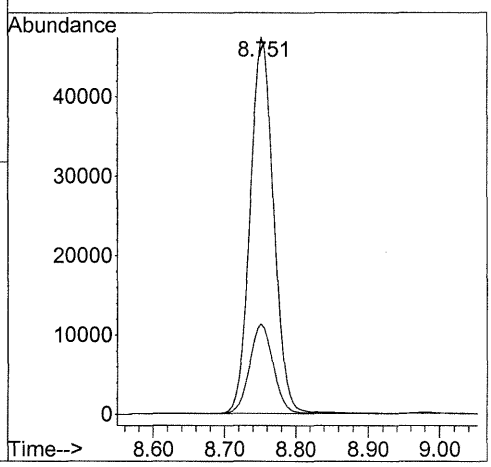


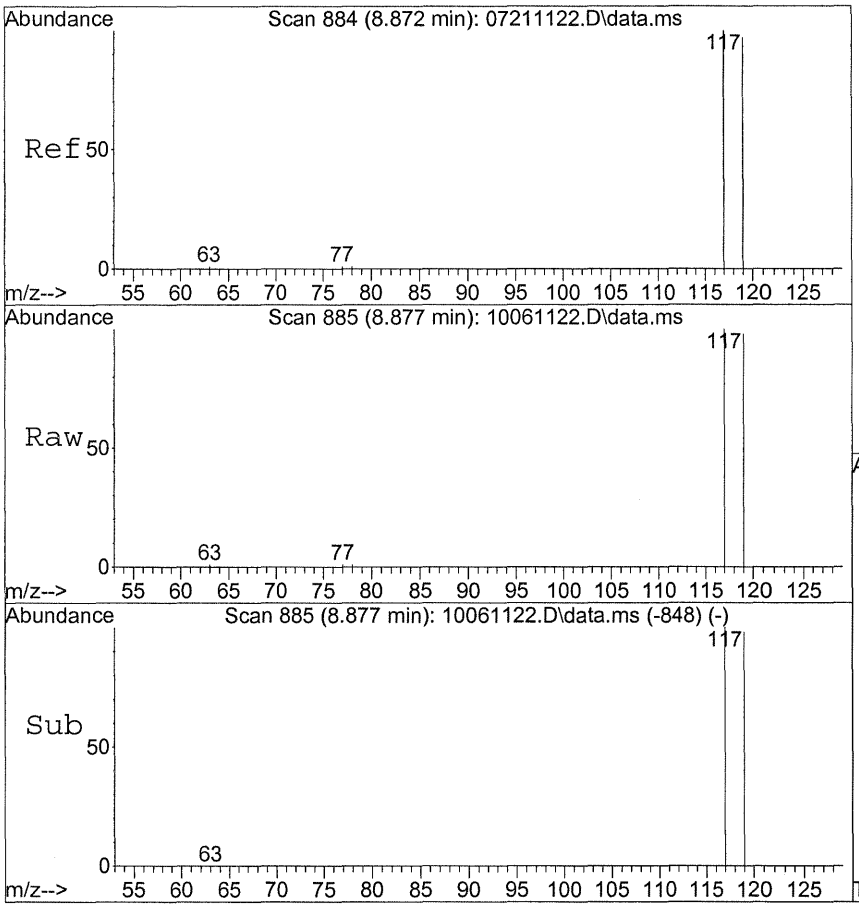


#20
Benzene
Concen: 267.87 pg
RT: 8.75 min Scan# 857
Delta R.T. 0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 78 Resp: 108907

Ion	Ratio	Lower	Upper
78	100		
77	23.9	4.0	44.0

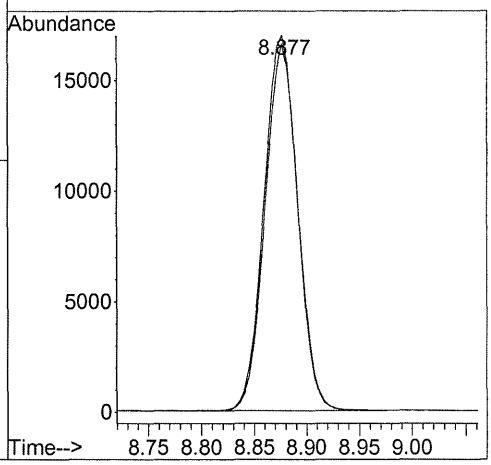


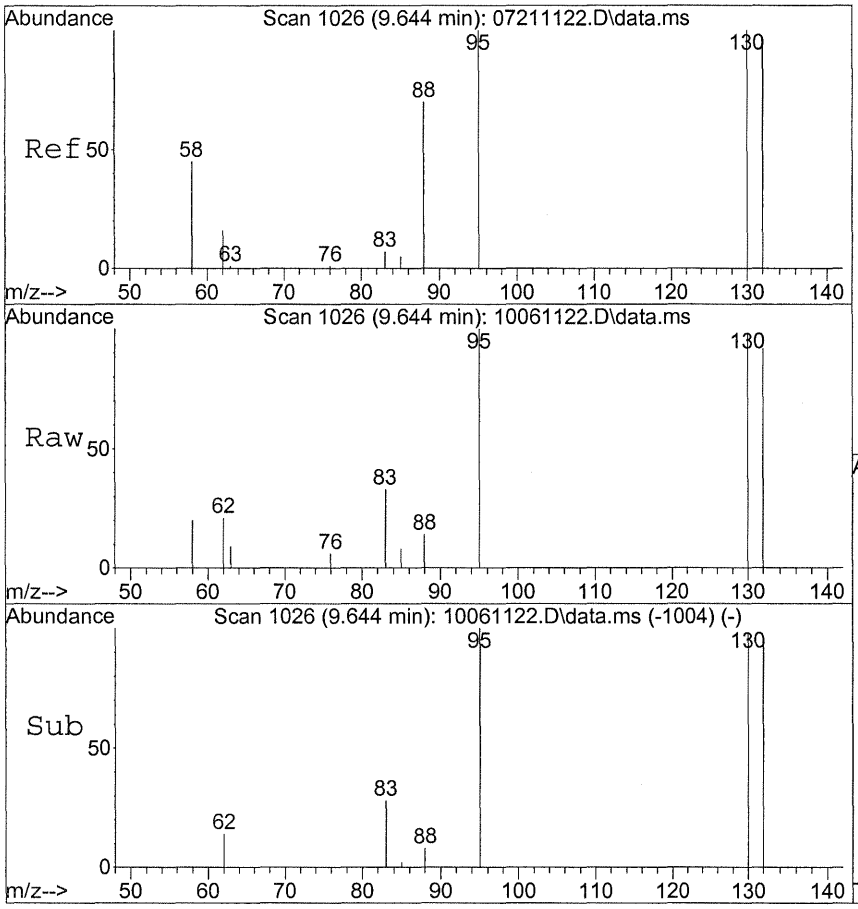


#21
Carbon Tetrachloride
Concen: 308.32 pg
RT: 8.88 min Scan# 885
Delta R.T. 0.005 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion:117 Resp: 37400

Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.5	117.5

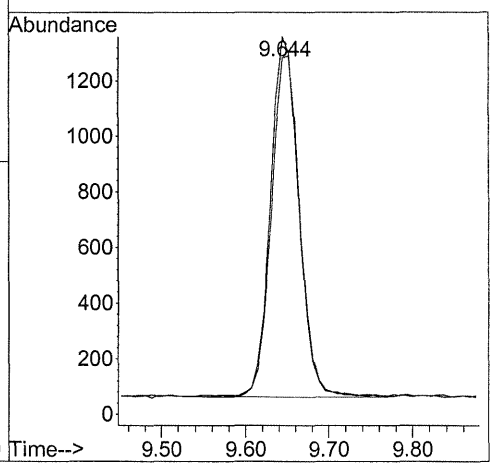


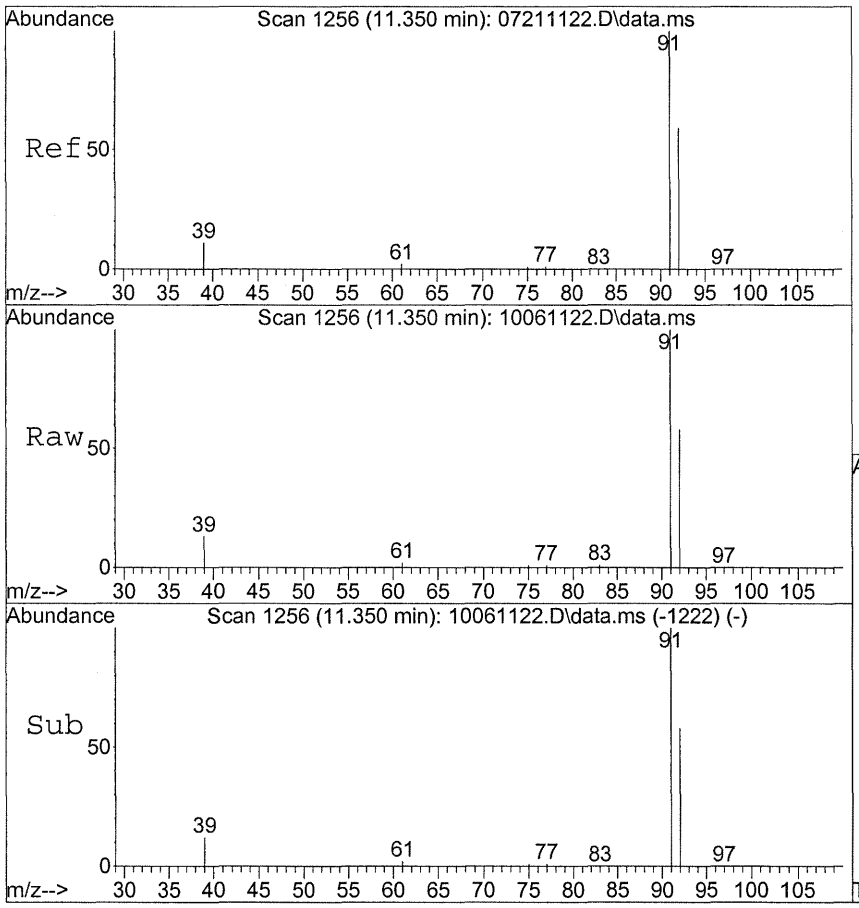


#25
Trichloroethene
Concen: 28.71 pg
RT: 9.64 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion:130 Resp: 3062

Ion	Ratio	Lower	Upper
130	100		
132	94.9	74.7	114.7

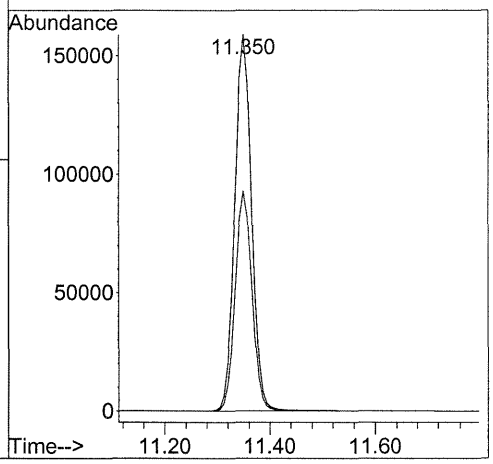


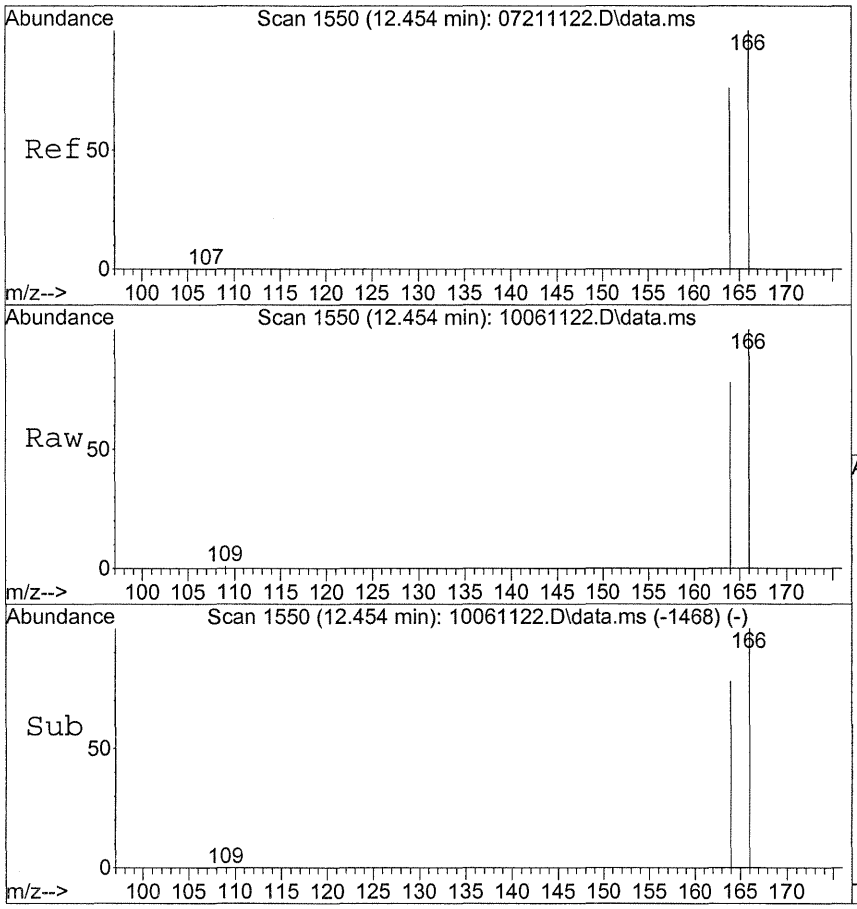


#31
Toluene
Concen: 863.82 pg
RT: 11.35 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 91 Resp: 353130

Ion	Ratio	Lower	Upper
91	100		
92	58.4	38.2	78.2

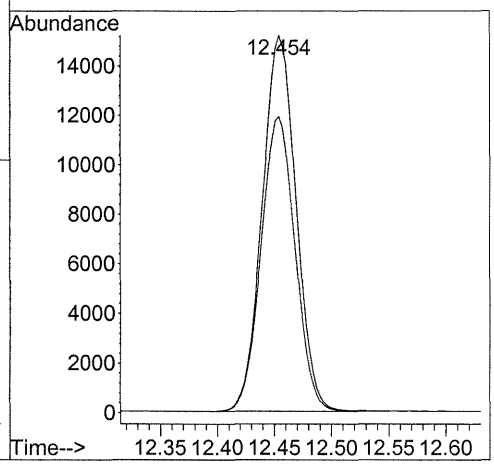


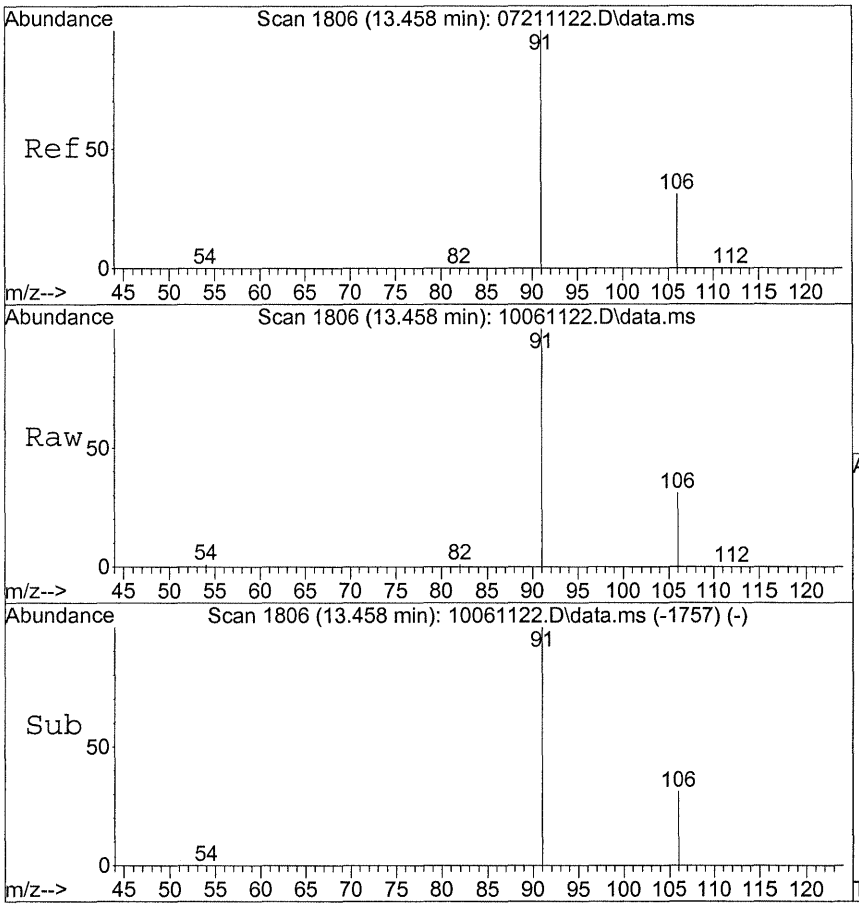


#33
Tetrachloroethene
Concen: 273.51 pg
RT: 12.45 min Scan# 1550
Delta R.T. 0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion:166 Resp: 31290

Ion	Ratio	Lower	Upper
166	100		
164	78.8	58.2	98.2

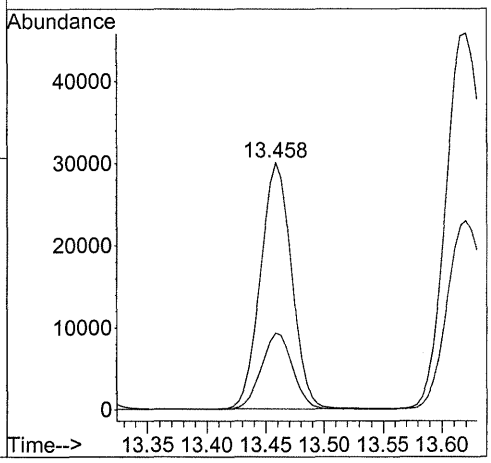


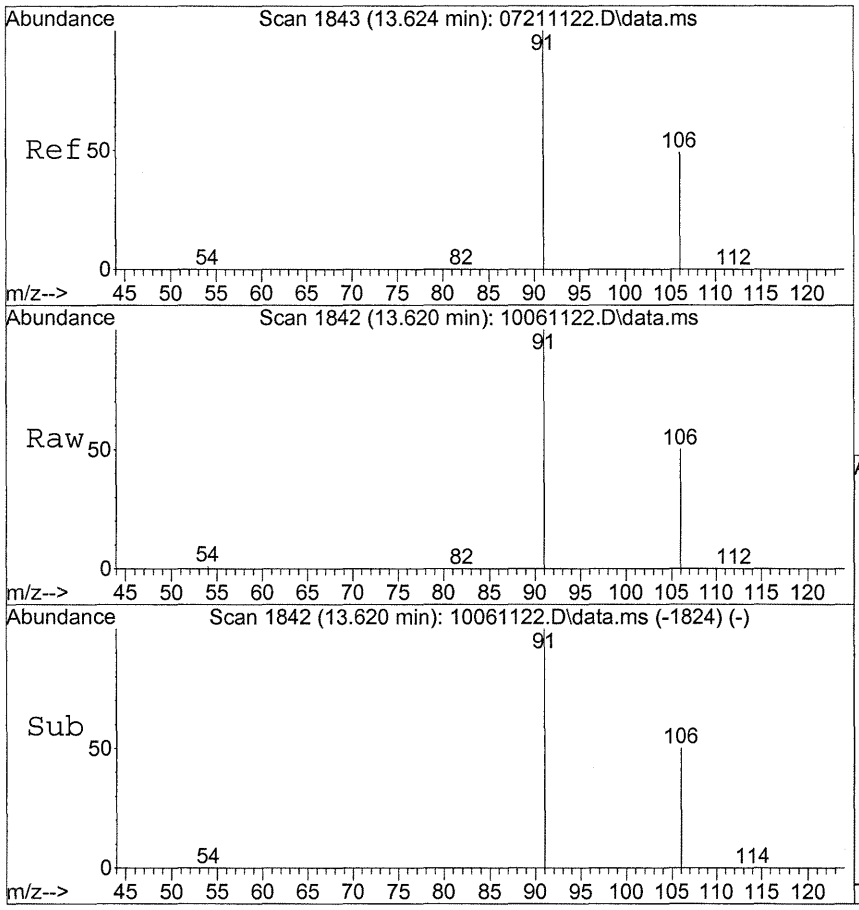


#36
Ethylbenzene
Concen: 124.78 pg
RT: 13.46 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 91 Resp: 55515

Ion	Ratio	Lower	Upper
91	100		
106	31.0	11.9	51.9

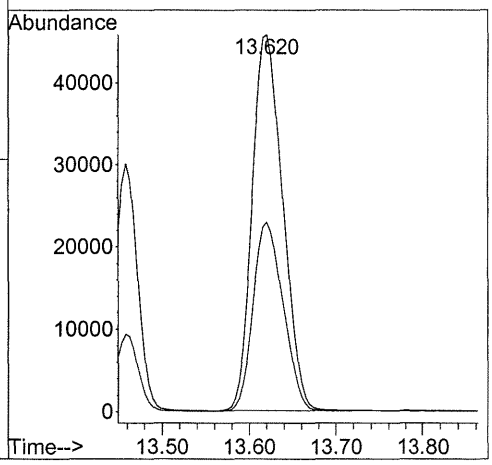


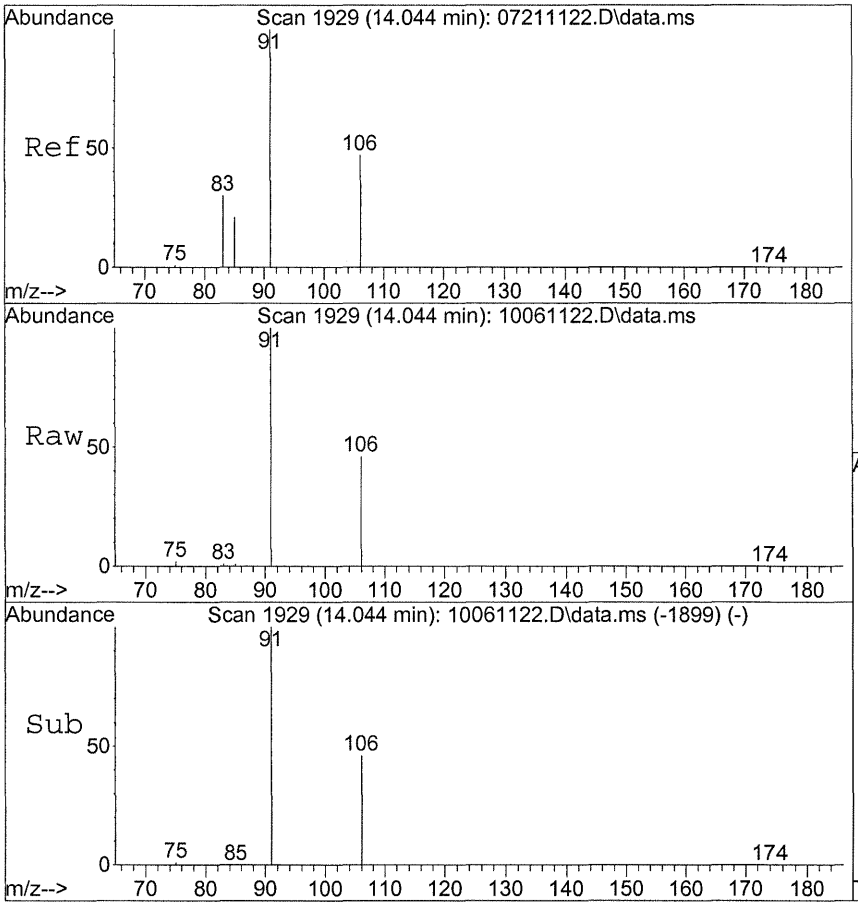


#37
m,p-Xylene
Concen: 307.46 pg
RT: 13.62 min Scan# 1842
Delta R.T. -0.004 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 91 Resp: 111369

Ion	Ratio	Lower	Upper
91	100		
106	49.4	30.3	70.3

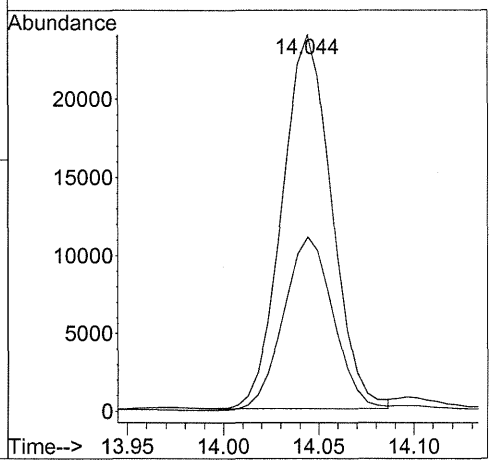


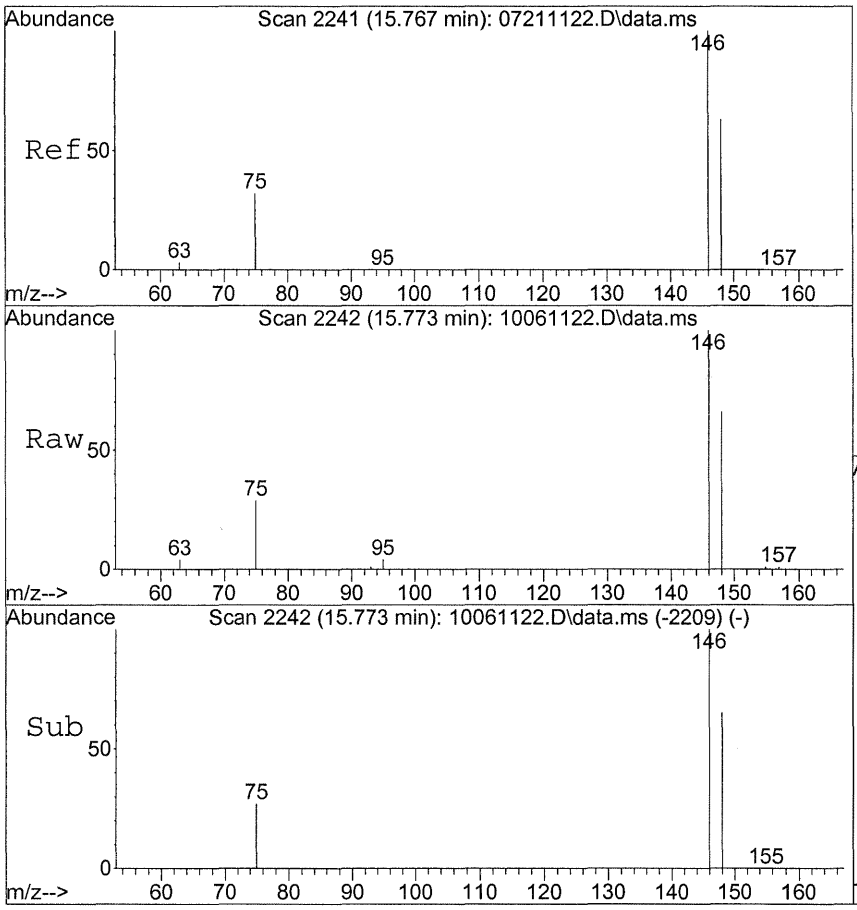


#38
o-Xylene
Concen: 117.71 pg
RT: 14.04 min Scan# 1929
Delta R.T. 0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion: 91 Resp: 43497

Ion	Ratio	Lower	Upper
91	100		
106	48.2	28.4	68.4

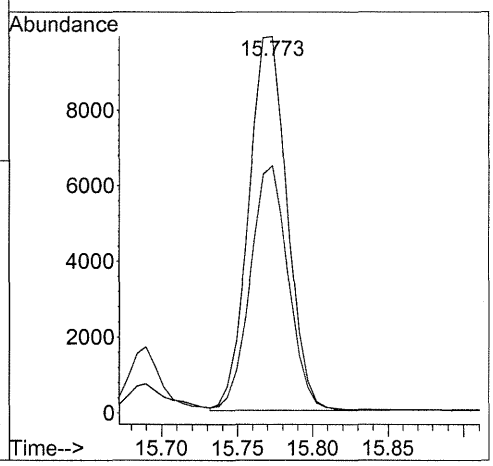


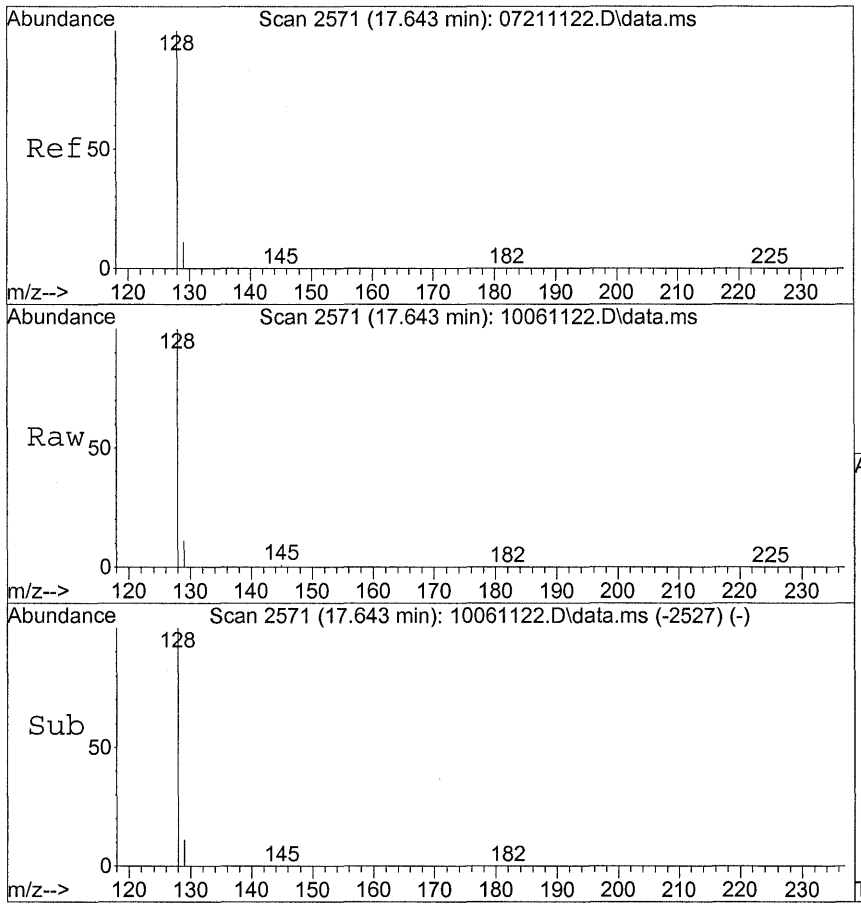


#42
1,4-Dichlorobenzene
Concen: 79.96 pg
RT: 15.77 min Scan# 2242
Delta R.T. 0.006 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion:146 Resp: 17632

Ion	Ratio	Lower	Upper
146	100		
148	64.1	42.9	82.9

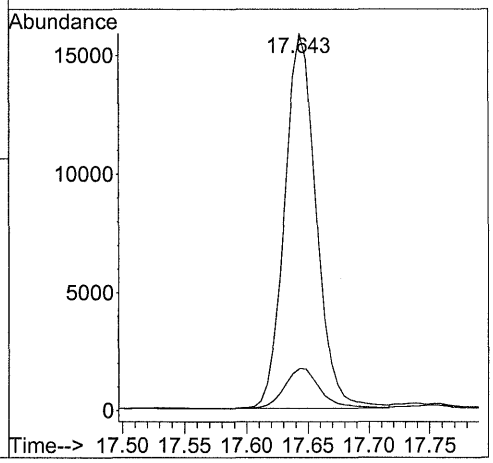




#45
Naphthalene
Concen: 52.68 pg
RT: 17.64 min Scan# 2571
Delta R.T. 0.000 min
Lab File: 10061122.D
Acq: 6 Oct 2011 18:59

Tgt Ion:128 Resp: 28564

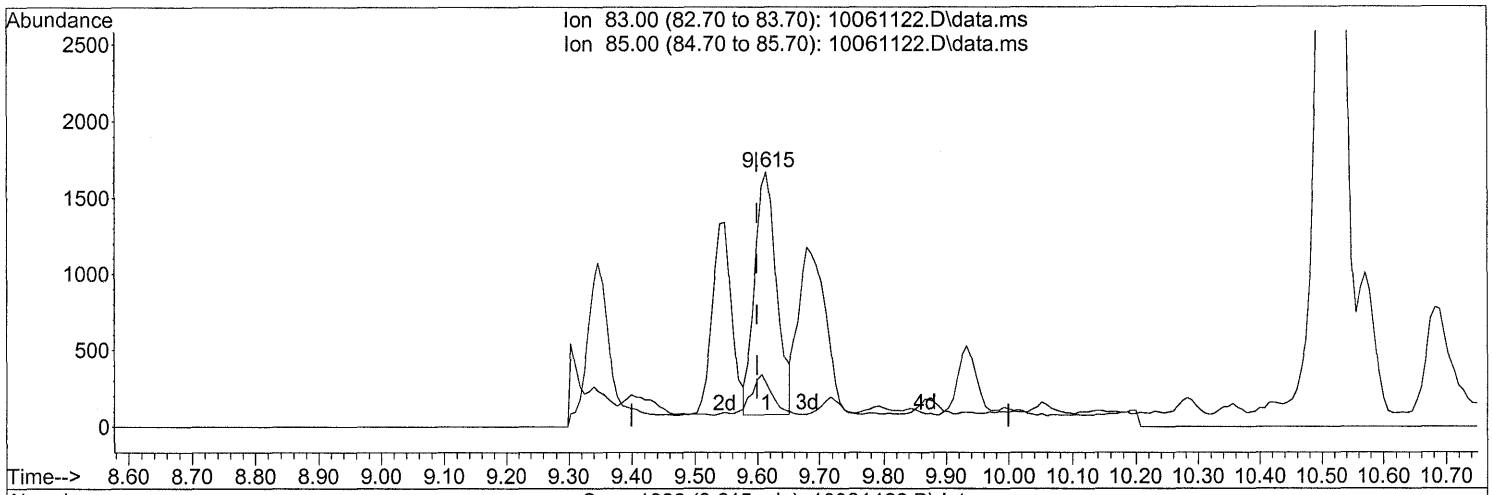
Ion	Ratio	Lower	Upper
128	100		
129	12.3	0.0	30.9

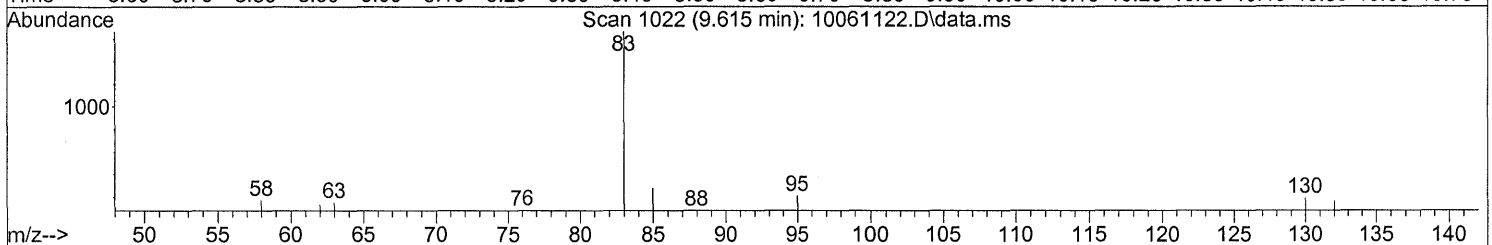


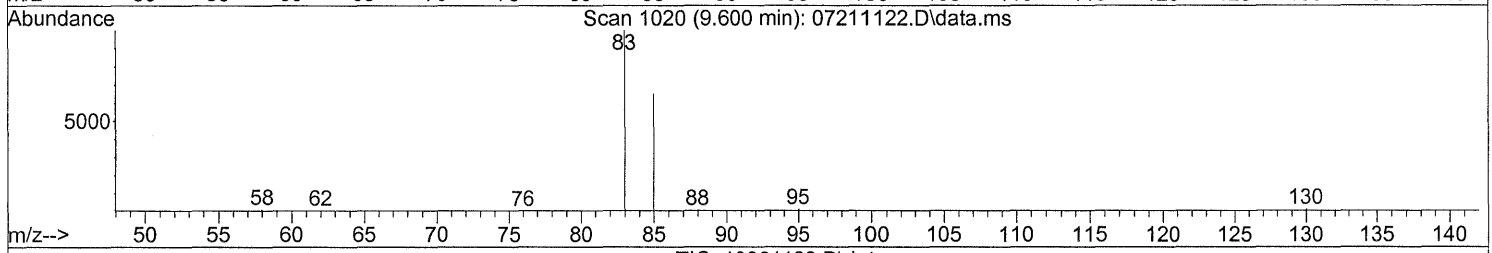
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061122.D
Acq On : 6 Oct 2011 18:59
Operator : KR
Sample : P1103662-004 (1000mL)
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 20:30:03 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061122.D\data.ms

(24) Bromodichloromethane (T)

9.615min (+0.015) 31.44pg

response 3927

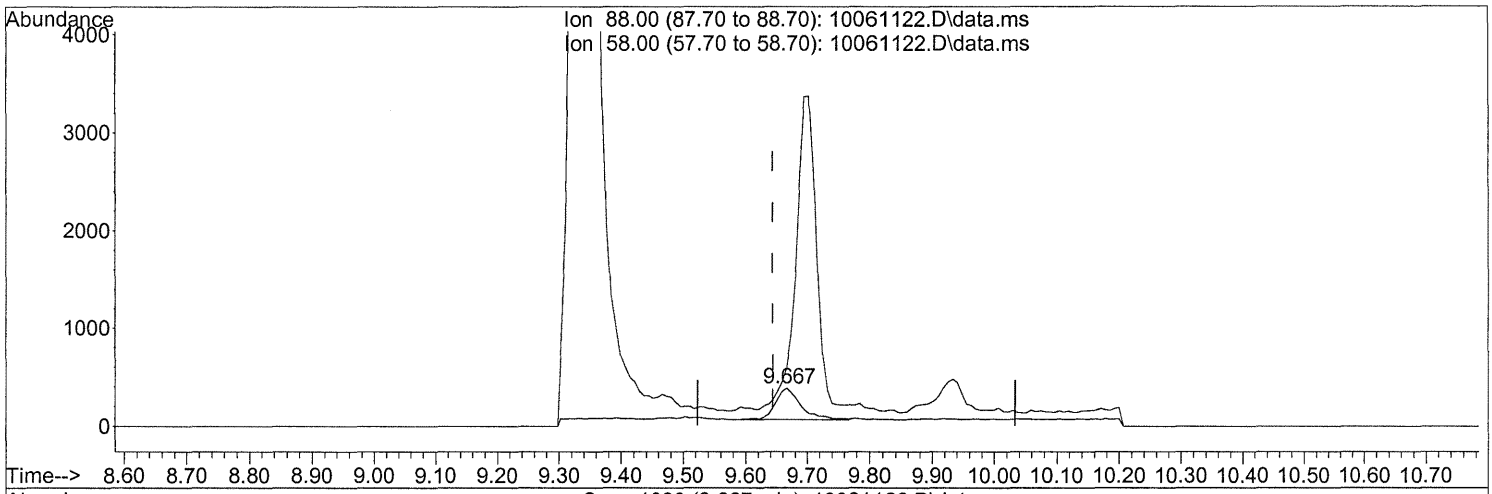
Ion	Exp%	Act%
83.00	100	100
85.00	63.50	16.04#
0.00	0.00	0.00
0.00	0.00	0.00

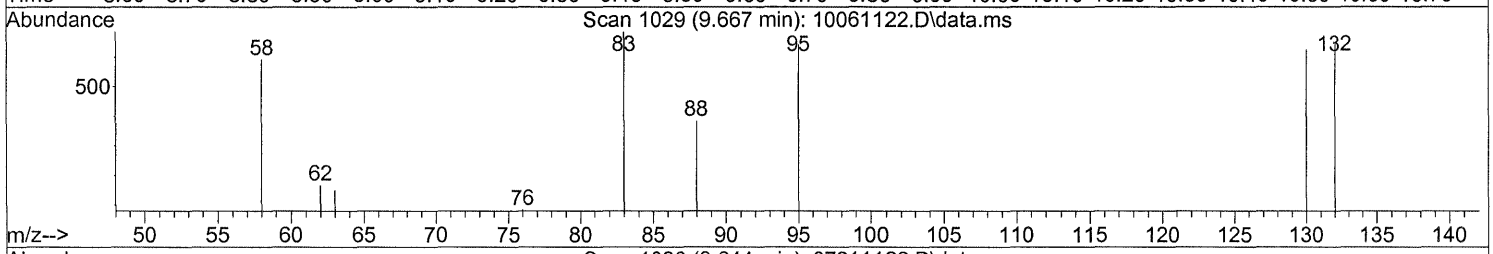
FP

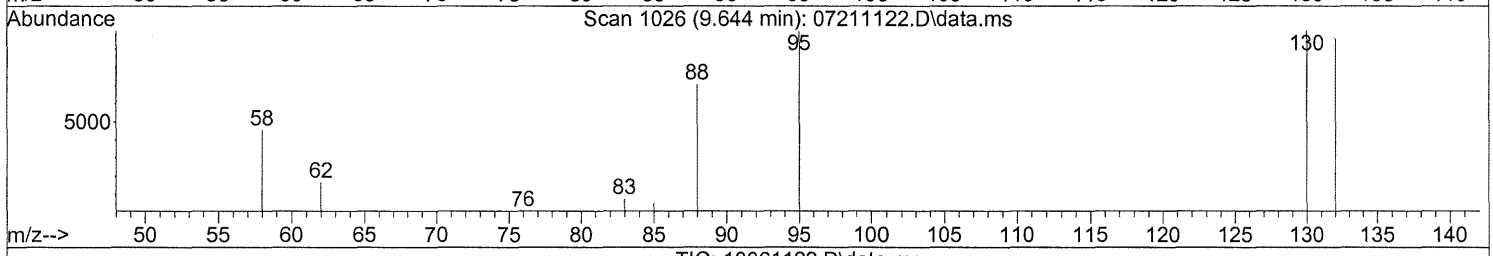
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061122.D
Acq On : 6 Oct 2011 18:59
Operator : KR
Sample : P1103662-004 (1000mL)
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 20:30:03 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061122.D\data.ms

(26) 1,4-Dioxane (T)

9.667min (+0.023) 11.13pg

response 896

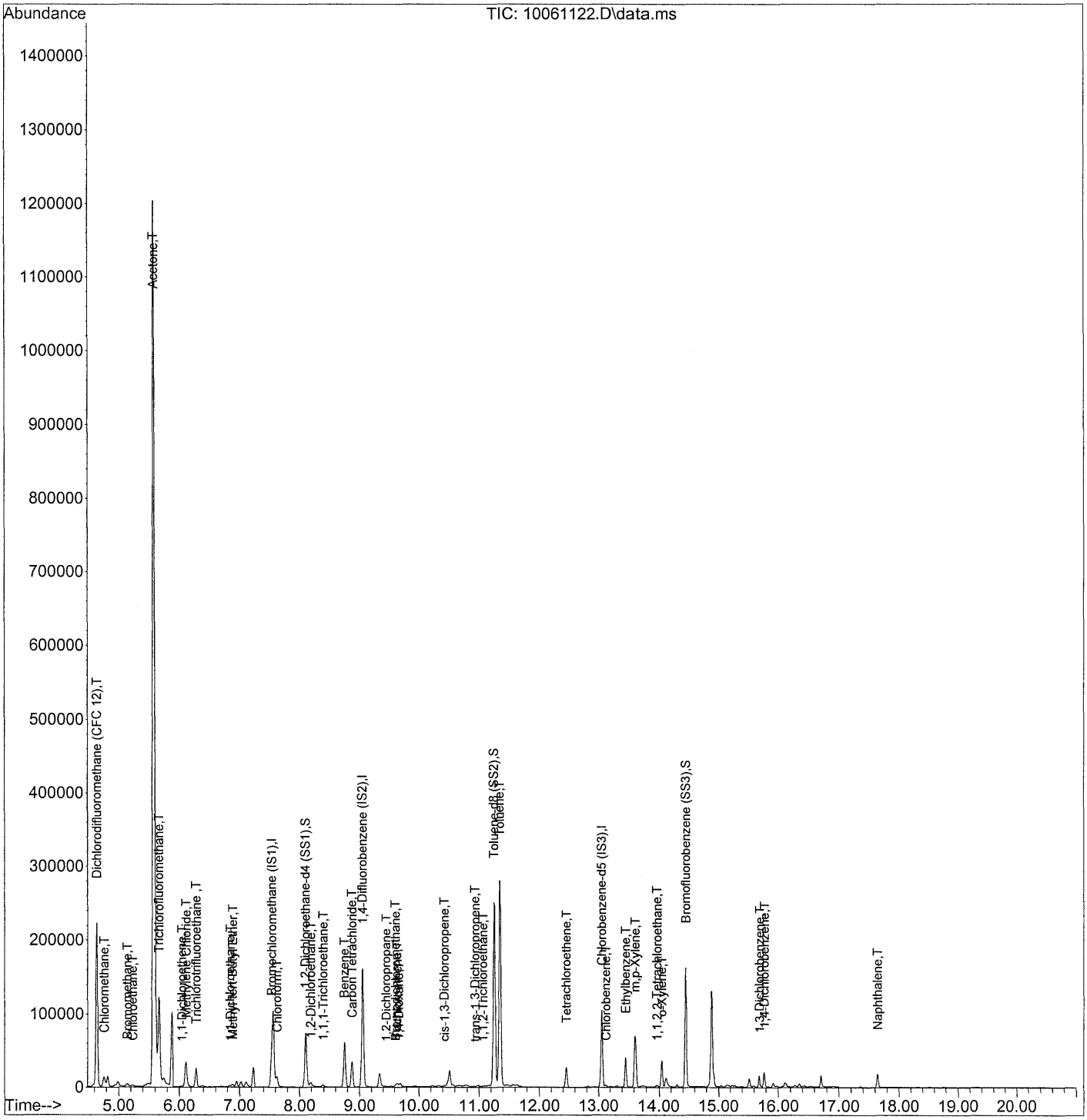
Ion	Exp%	Act%
88.00	100	100
58.00	63.80	884.82#
0.00	0.00	0.00
0.00	0.00	0.00

#p

Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061122.D
Acq On : 6 Oct 2011 18:59
Operator : KR
Sample : P1103662-004 (1000mL)
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 20:30:03 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061122.D
Acq On : 6 Oct 2011 18:59
Operator : KR
Sample : P1103662-004 (1000mL)
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 20:30:03 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	62880	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	303517	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	148364	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.10	65	120904	983.48	pg		0.00
Spiked Amount 1000.000			Recovery = 98.35%				
30) Toluene-d8 (SS2)	11.25	98	328778	996.44	pg		0.00
Spiked Amount 1000.000			Recovery = 99.64%				
40) Bromofluorobenzene (SS3)	14.45	174	116367	985.11	pg		0.00
Spiked Amount 1000.000			Recovery = 98.51%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.64	85	283718	1536.72	pg		98
3) Chloromethane	4.76	52	9526	209.22	pg	#	71
4) Vinyl Chloride	4.91	62	265	N.D.			
5) Bromomethane	5.14	94	4086	56.01	pg		99
6) Chloroethane	5.23	64	2466	29.04	pg		99
7) Acetone	5.58	58	617637	8520.37	pg	#	81
8) Trichlorofluoromethane	5.66	101	132216	764.84	pg		98
9) 1,1-Dichloroethene	6.04	96	795	9.66	pg	#	51
10) Methylene Chloride	6.12	84	28805	292.84	pg		92
11) Trichlorotrifluoroethane	6.28	151	27857	350.35	pg		100
12) trans-1,2-Dichloroethene	6.71	96	290	N.D.			
13) 1,1-Dichloroethane	6.85	63	685	4.61	pg	#	1
14) Methyl tert-Butyl Ether	6.89	73	4695	15.40	pg		99
15) cis-1,2-Dichloroethene	7.42	96	259	N.D.			
16) Chloroform	7.63	83	15793	90.40	pg		95
18) 1,2-Dichloroethane	8.19	62	5433	38.75	pg		96
19) 1,1,1-Trichloroethane	8.39	97	3267	21.09	pg		98
20) Benzene	8.75	78	108907	267.87	pg		100
21) Carbon Tetrachloride	8.88	117	37400	308.32	pg		99
23) 1,2-Dichloropropane	9.45	63	719	7.54	pg		93
24) Bromodichloromethane	9.61	83	3927	31.44	pg	#	39
25) Trichloroethene	9.64	130	3062	28.71	pg		100
26) 1,4-Dioxane	9.67	88	896	11.13	pg	#	1
27) cis-1,3-Dichloropropene	10.43	75	741	4.94	pg	#	1
28) trans-1,3-Dichloropropene	10.93	75	676	4.90	pg		99
29) 1,1,2-Trichloroethane	11.07	83	633	8.33	pg	#	12
31) Toluene	11.35	91	353130	863.82	pg		100
32) 1,2-Dibromoethane	11.99	107	219	N.D.			
33) Tetrachloroethene	12.45	166	31290	273.51	pg		99
35) Chlorobenzene	13.13	112	2380	9.41	pg		71

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061122.D
Acq On : 6 Oct 2011 18:59
Operator : KR
Sample : P1103662-004 (1000mL)
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 20:30:03 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

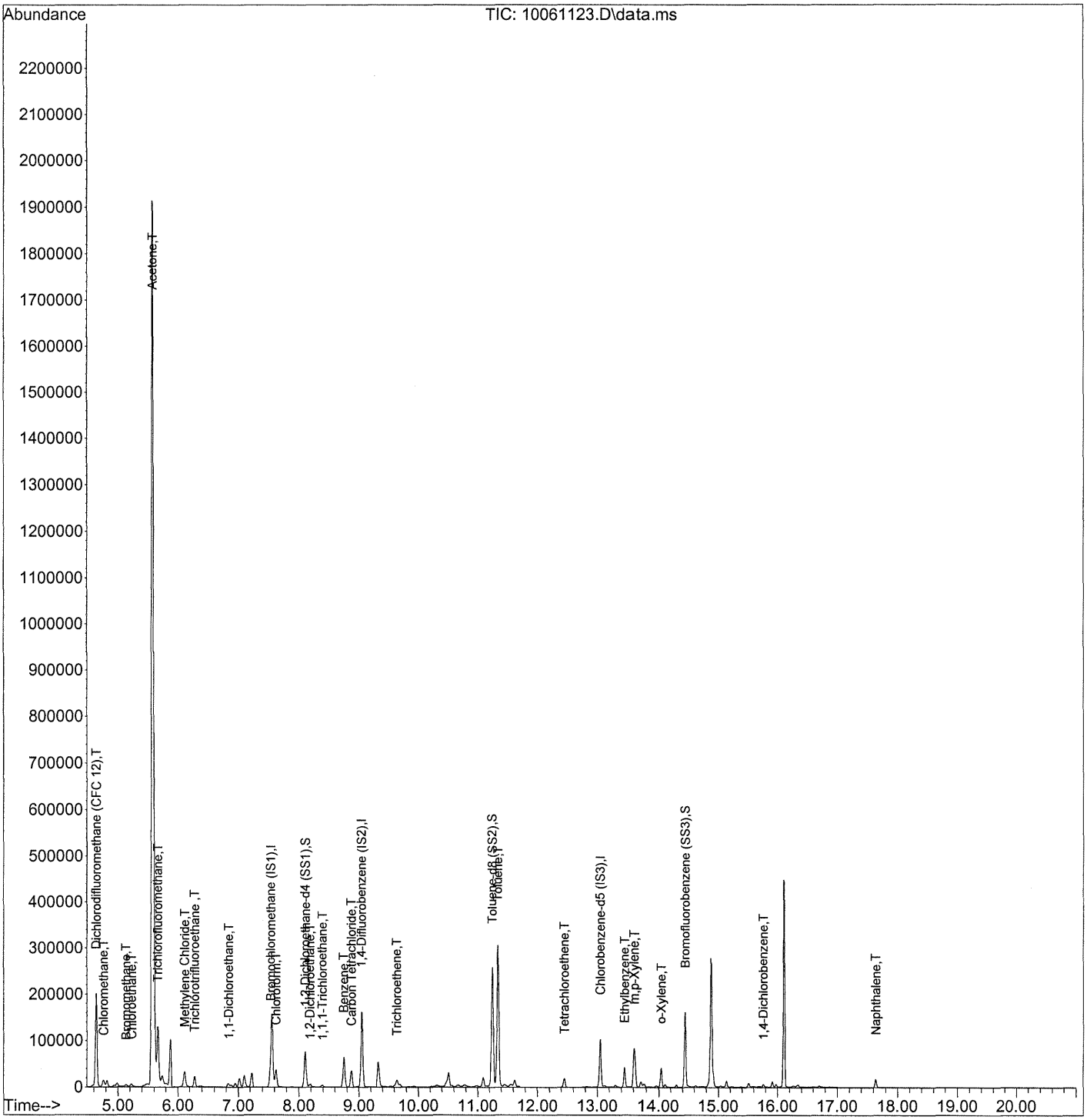
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Ethylbenzene	13.46	91	55515	124.78	pg		98
37) m,p-Xylene	13.62	91	111369	307.46	pg		99
38) o-Xylene	14.04	91	43497	117.71	pg		100
39) 1,1,2,2-Tetrachloroethane	13.97	83	1293	7.91	pg	#	1
41) 1,3-Dichlorobenzene	15.69	146	1330	6.06	pg	#	1
42) 1,4-Dichlorobenzene	15.77	146	17632	79.96	pg		98
43) 1,2-Dichlorobenzene	16.07	146	285	N.D.			
44) 1,2,4-Trichlorobenzene	17.55	182	351	N.D.			
45) Naphthalene	17.64	128	28564	52.68	pg		96
46) Hexachlorobutadiene	17.97	225	64	N.D.			

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061123.D
Acq On : 6 Oct 2011 19:31
Operator : KR
Sample : P1103662-005 (1000mL)
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 20:43:33 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

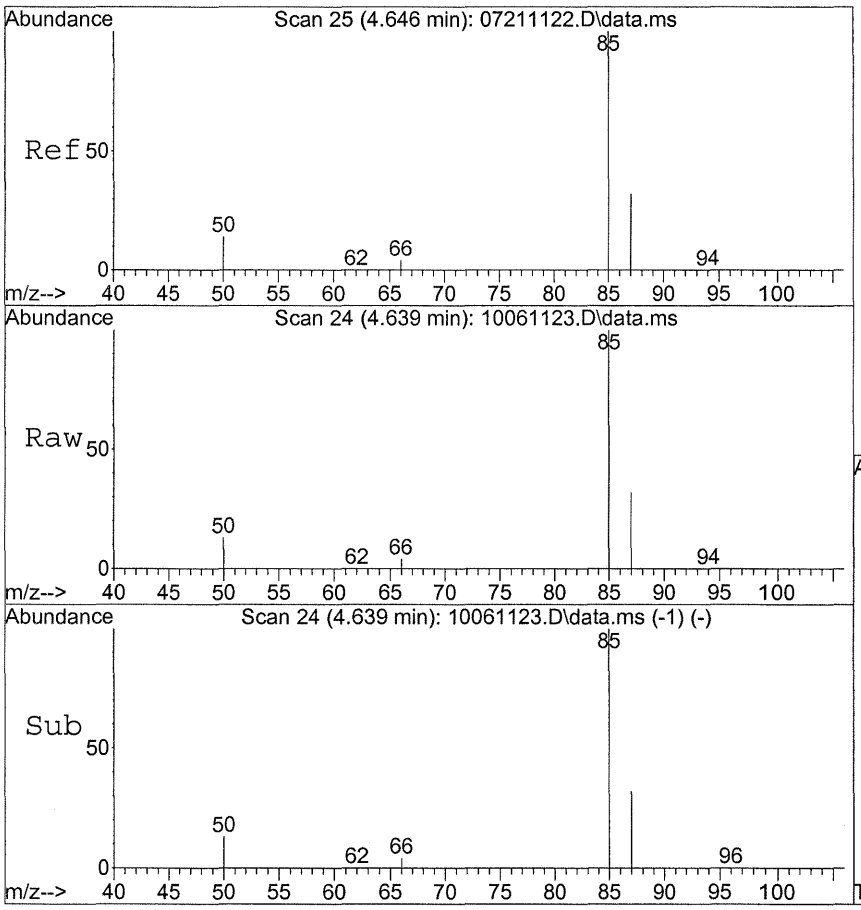
Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061123.D
Acq On : 6 Oct 2011 19:31
Operator : KR
Sample : P1103662-005 (1000mL)
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 20:43:33 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	62968	1000.00	pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	298847	1000.00	pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	145248	1000.00	pg	0.00
System Monitoring Compounds						
17) 1,2-Dichloroethane-d4 ...	8.11	65	117875	957.50	pg	0.00
Spiked Amount 1000.000			Recovery = 95.75%			
30) Toluene-d8 (SS2)	11.25	98	332999	1025.00	pg	0.00
Spiked Amount 1000.000			Recovery = 102.50%			
40) Bromofluorobenzene (SS3)	14.45	174	115391	997.80	pg	0.00
Spiked Amount 1000.000			Recovery = 99.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	4.64	85	252532	1365.89	pg	98
3) Chloromethane	4.76	52	7854	172.26	pg	100
5) Bromomethane	5.13	94	4443	60.82	pg	97
6) Chloroethane	5.23	64	8469	99.58	pg	98
7) Acetone	5.58	58	1080981	14891.41	pg	100
8) Trichlorofluoromethane	5.66	101	136828	790.42	pg	98
10) Methylene Chloride	6.12	84	26852	272.61	pg	91
11) Trichlorotrifluoroethane	6.28	151	24568	308.55	pg	100
13) 1,1-Dichloroethane	6.84	63	1436	9.66	pg	# 51
16) Chloroform	7.63	83	48506	277.25	pg	98
18) 1,2-Dichloroethane	8.19	62	4243	30.22	pg	96
19) 1,1,1-Trichloroethane	8.39	97	3989	25.71	pg	99
20) Benzene	8.75	78	112552	276.45	pg	99
21) Carbon Tetrachloride	8.88	117	38977	320.87	pg	98
25) Trichloroethene	9.64	130	9004	85.75	pg	99
31) Toluene	11.35	91	381861	948.70	pg	100
33) Tetrachloroethene	12.45	166	21190	188.12	pg	100
36) Ethylbenzene	13.46	91	58426	134.14	pg	99
37) m,p-Xylene	13.62	91	130513	368.04	pg	99
38) o-Xylene	14.04	91	49511	136.86	pg	98
42) 1,4-Dichlorobenzene	15.77	146	4656	21.57	pg	100
45) Naphthalene	17.64	128	28024	52.79	pg	98

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

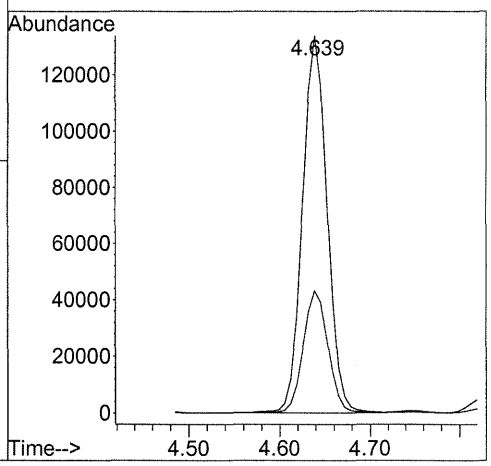
10/7/11

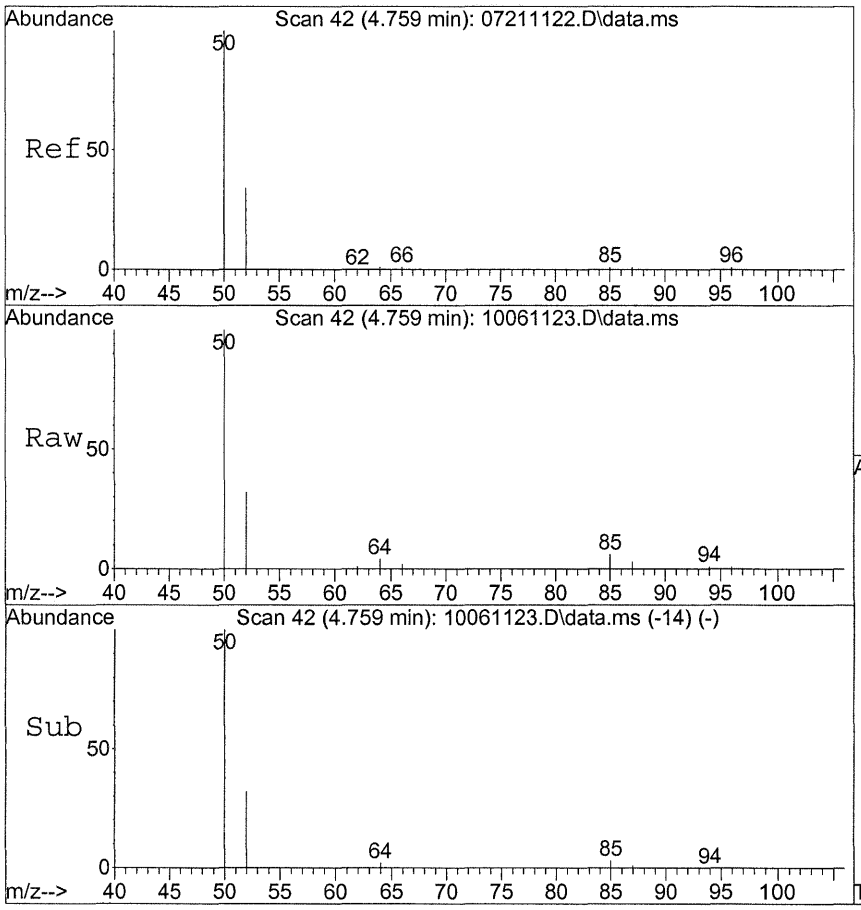


#2
Dichlorodifluoromethane (CFC
Concen: 1365.89 pg
RT: 4.64 min Scan# 24
Delta R.T. -0.007 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 85 Resp: 252532

Ion	Ratio	Lower	Upper
85	100		
87	32.4	13.3	53.3

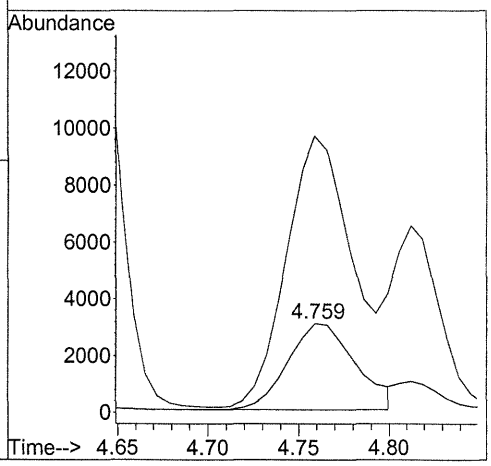


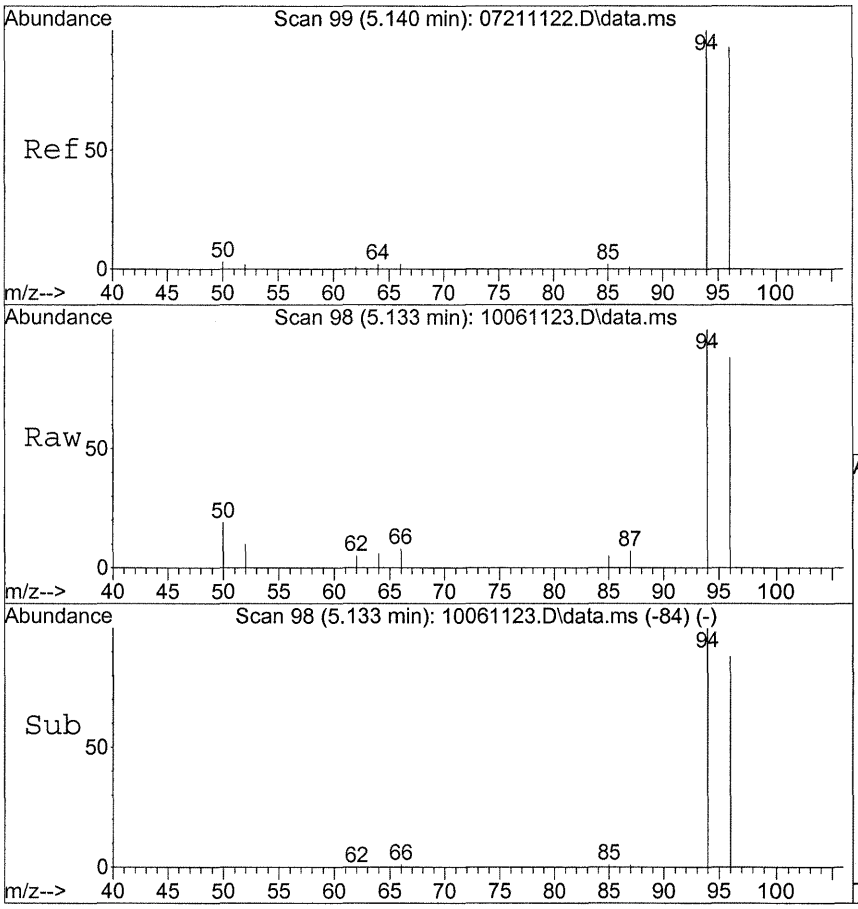


#3
Chloromethane
Concen: 172.26 pg
RT: 4.76 min Scan# 42
Delta R.T. 0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 52 Resp: 7854

Ion	Ratio	Lower	Upper
52	100		
50	304.9	285.3	325.3

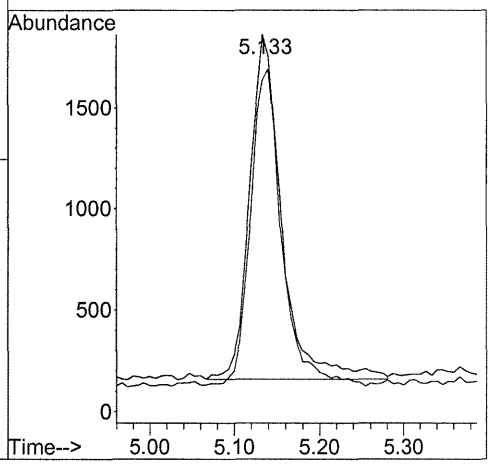


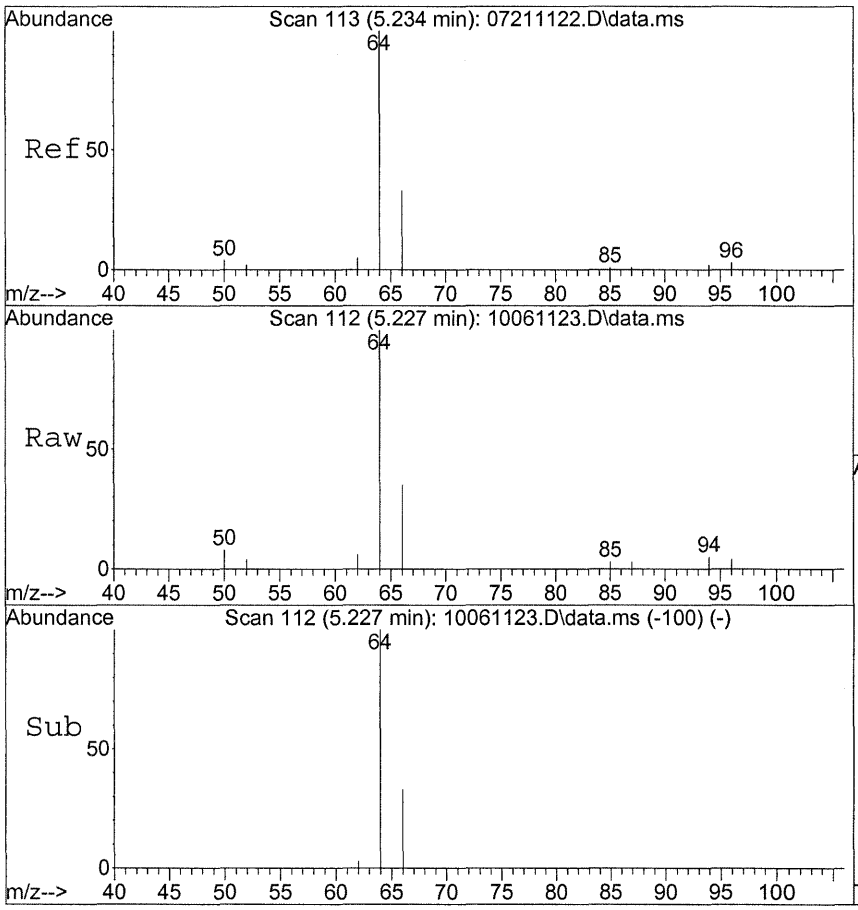


#5
Bromomethane
Concen: 60.82 pg
RT: 5.13 min Scan# 98
Delta R.T. -0.007 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 94 Resp: 4443

Ion	Ratio	Lower	Upper
94	100		
96	89.9	74.2	111.4

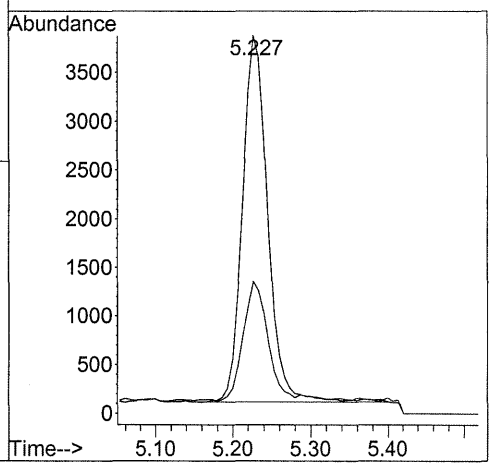


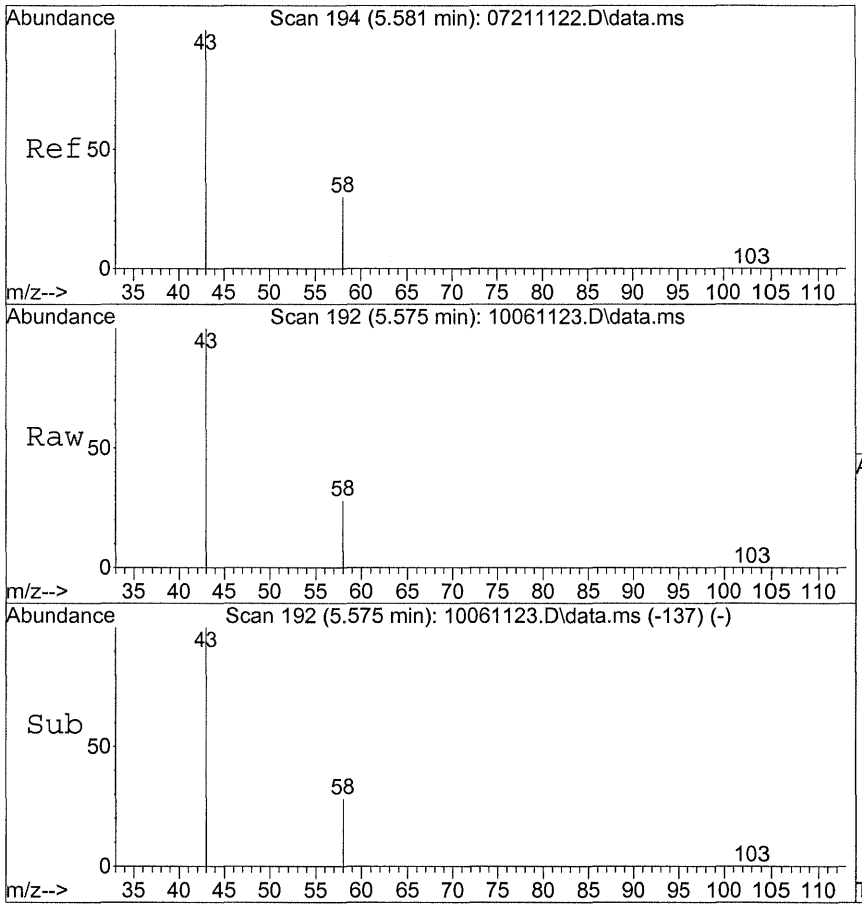


#6
Chloroethane
Concen: 99.58 pg
RT: 5.23 min Scan# 112
Delta R.T. -0.007 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 64 Resp: 8469

Ion	Ratio	Lower	Upper
64	100		
66	33.4	12.0	52.0

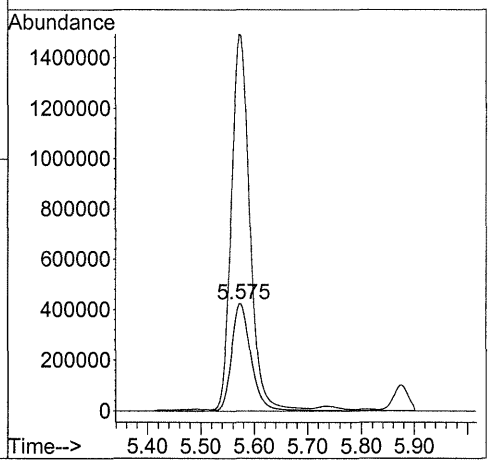


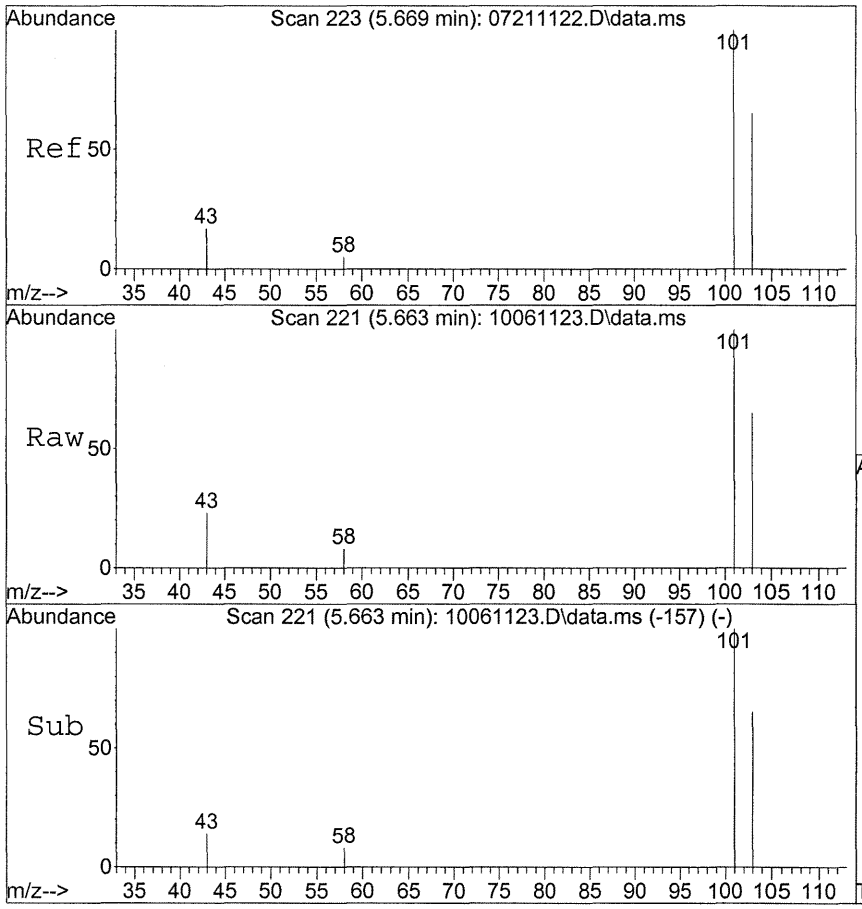


#7
Acetone
Concen: 14891.41 pg
RT: 5.58 min Scan# 192
Delta R.T. -0.006 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 58 Resp: 1080981

Ion	Ratio	Lower	Upper
58	100		
43	328.0	307.2	347.2

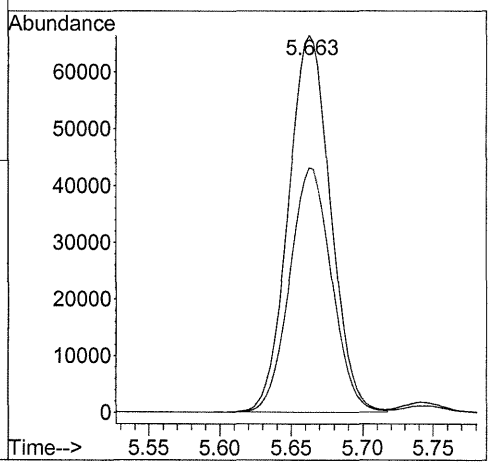


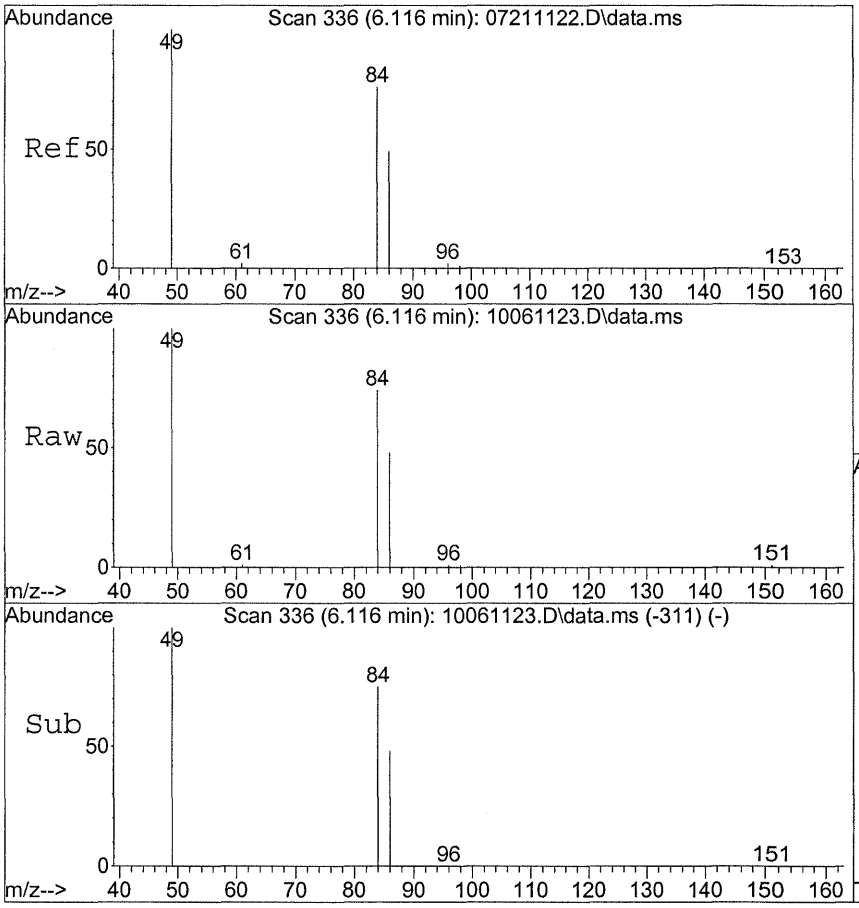


#8
Trichlorofluoromethane
Concen: 790.42 pg
RT: 5.66 min Scan# 221
Delta R.T. -0.006 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion:101 Resp: 136828

Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.6	75.8

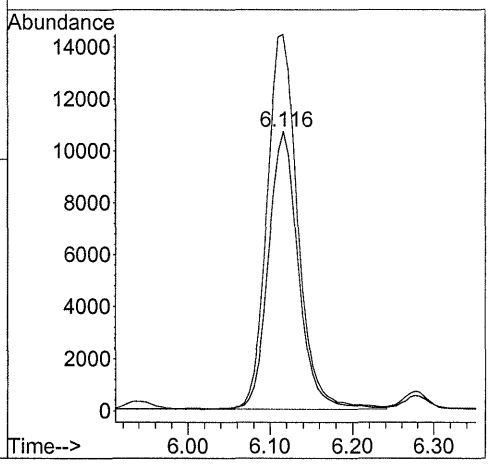


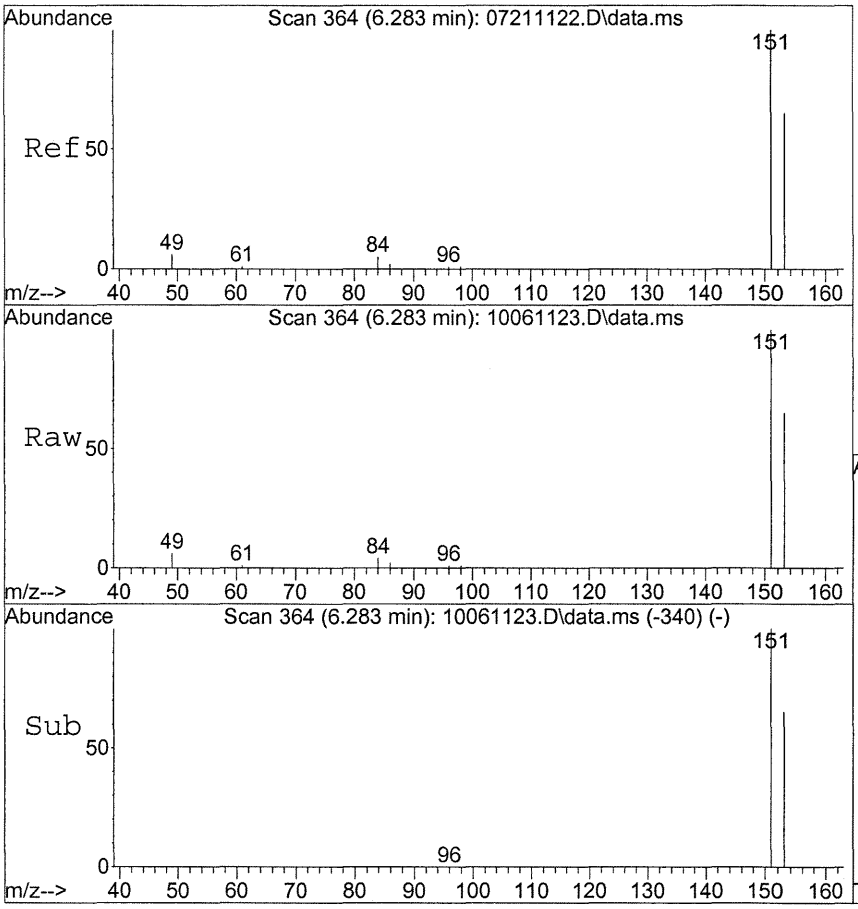


#10
Methylene Chloride
Concen: 272.61 pg
RT: 6.12 min Scan# 336
Delta R.T. 0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 84 Resp: 26852

Ion	Ratio	Lower	Upper
84	100		
49	137.9	107.9	147.9

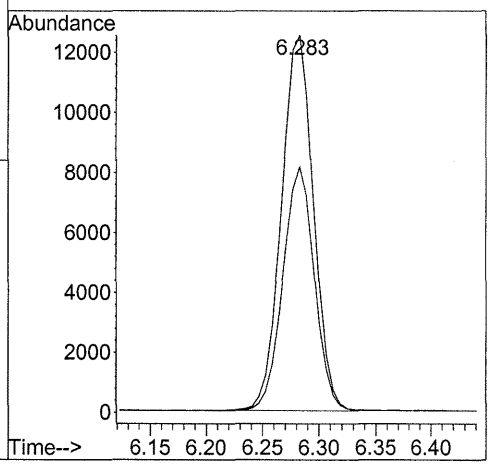


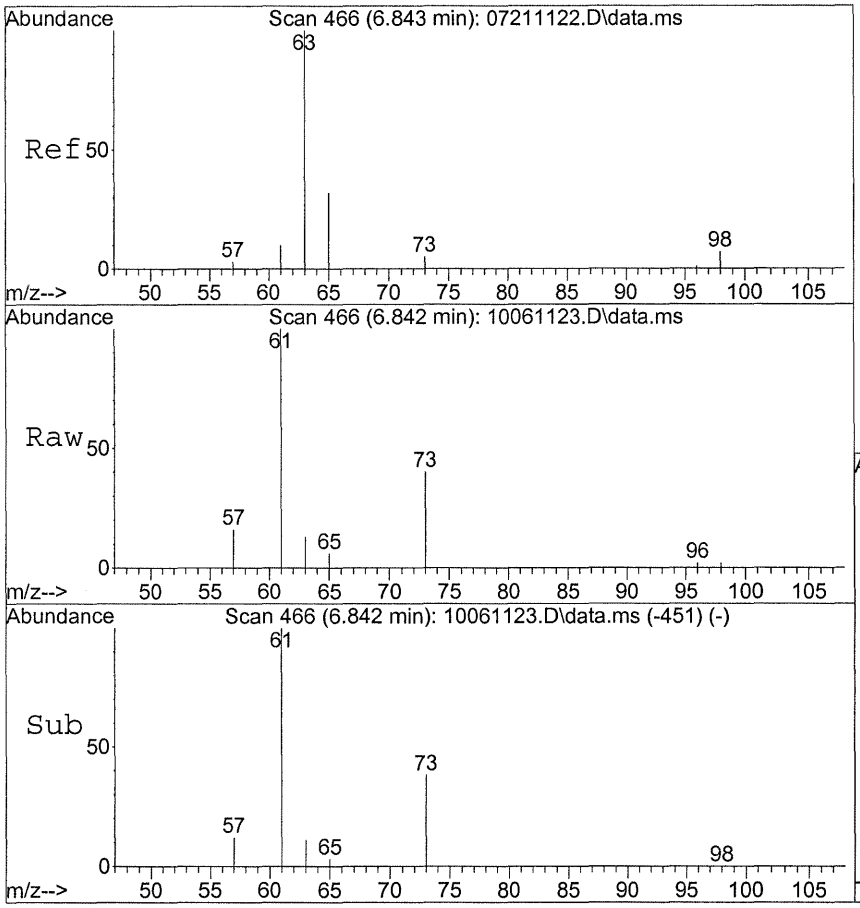


#11
Trichlorotrifluoroethane
Concen: 308.55 pg
RT: 6.28 min Scan# 364
Delta R.T. -0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion:151 Resp: 24568

Ion	Ratio	Lower	Upper
151	100		
153	64.0	44.1	84.1

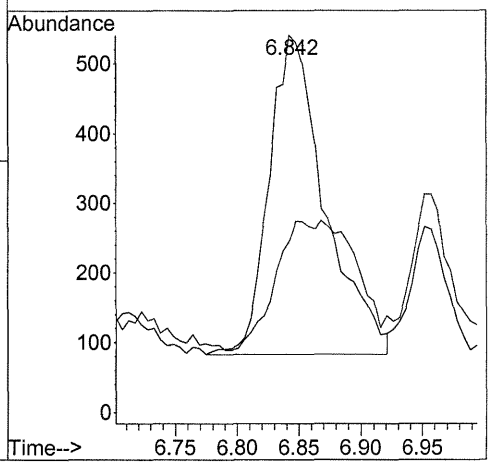


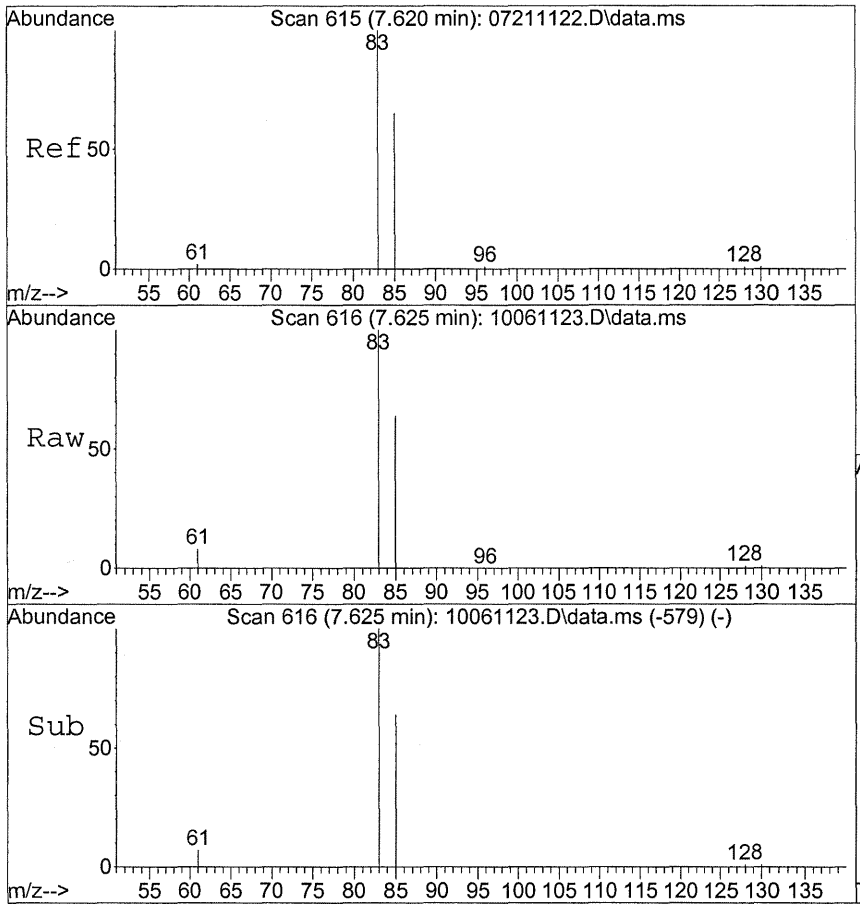


#13
1,1-Dichloroethane
Concen: 9.66 pg
RT: 6.84 min Scan# 466
Delta R.T. -0.001 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 63 Resp: 1436

Ion	Ratio	Lower	Upper
63	100		
65	59.1	11.8	51.8#

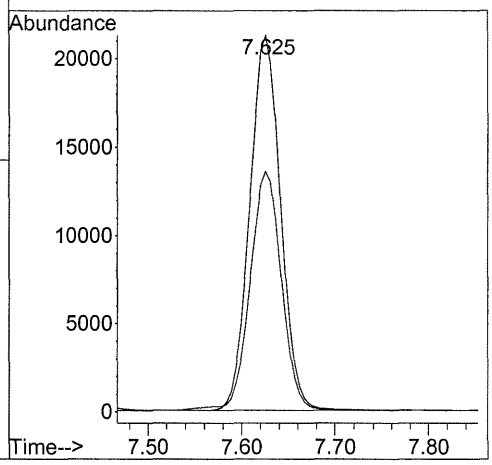


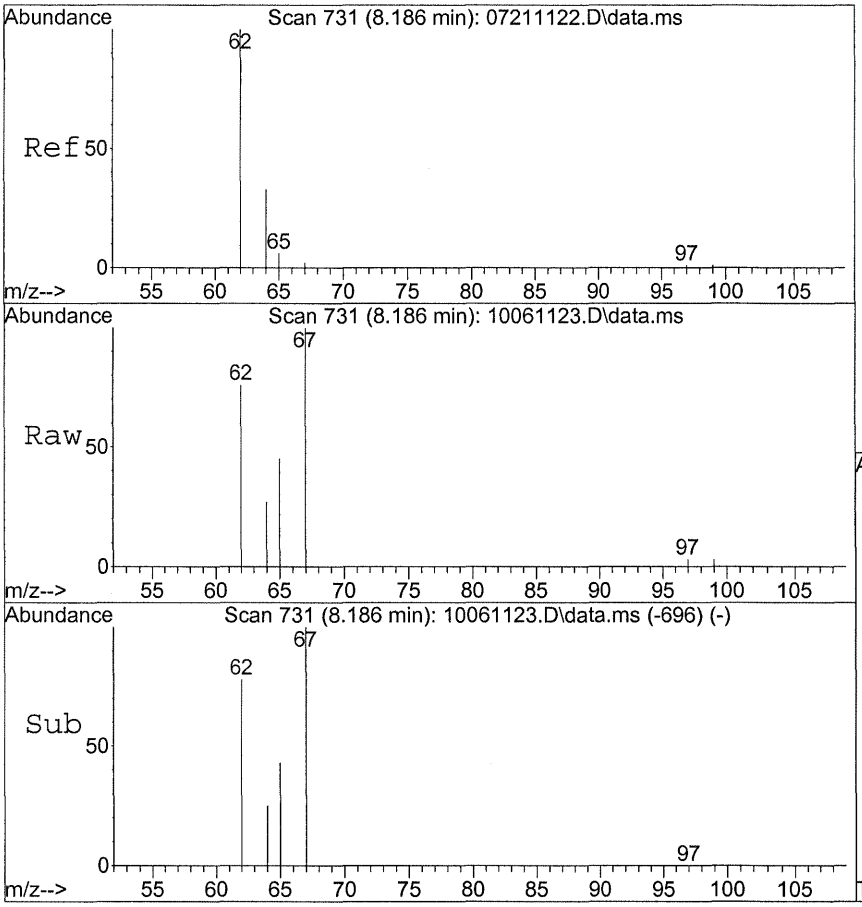


#16
Chloroform
Concen: 277.25 pg
RT: 7.63 min Scan# 616
Delta R.T. 0.005 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 83 Resp: 48506

Ion	Ratio	Lower	Upper
83	100		
85	65.6	44.4	84.4

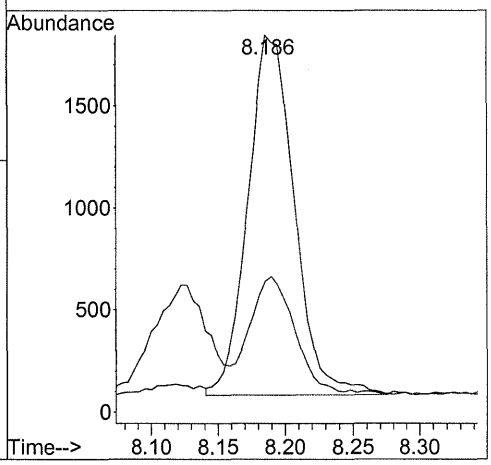


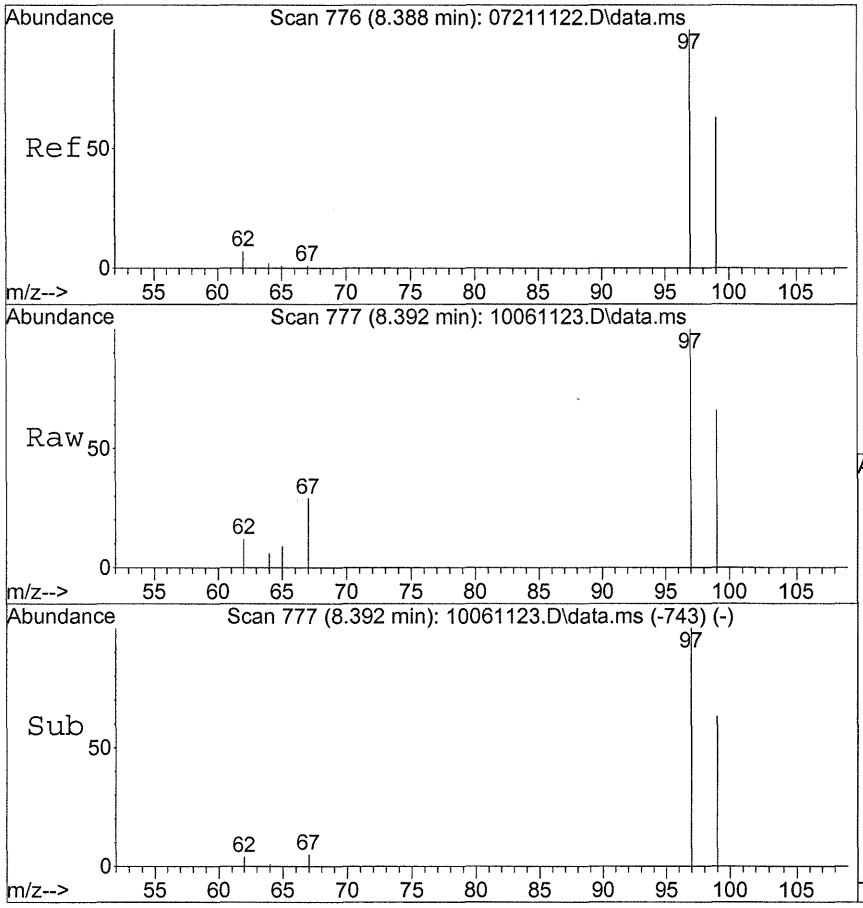


#18
1,2-Dichloroethane
Concen: 30.22 pg
RT: 8.19 min Scan# 731
Delta R.T. -0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 62 Resp: 4243

Ion	Ratio	Lower	Upper
62	100		
64	32.5	10.3	50.3

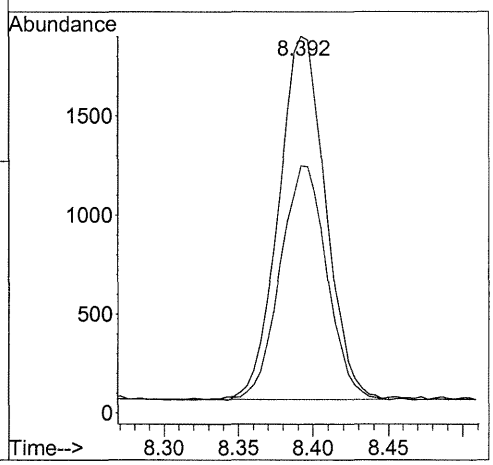


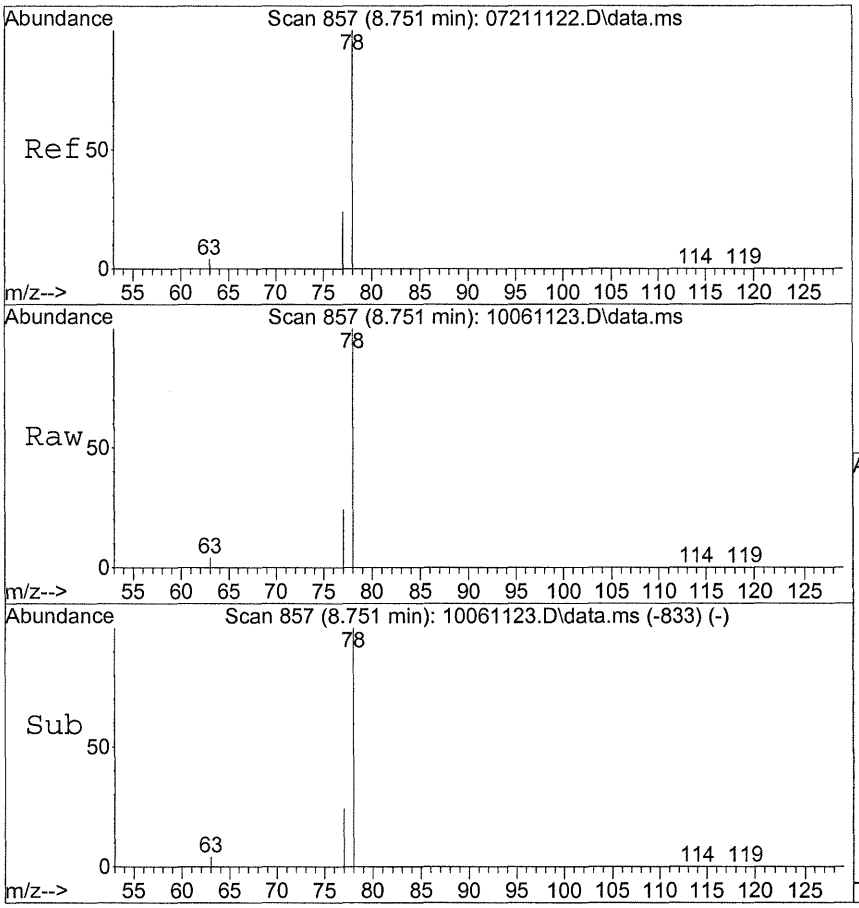


#19
1,1,1-Trichloroethane
Concen: 25.71 pg
RT: 8.39 min Scan# 777
Delta R.T. 0.004 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 97 Resp: 3989

Ion	Ratio	Lower	Upper
97	100		
99	64.3	45.2	85.2

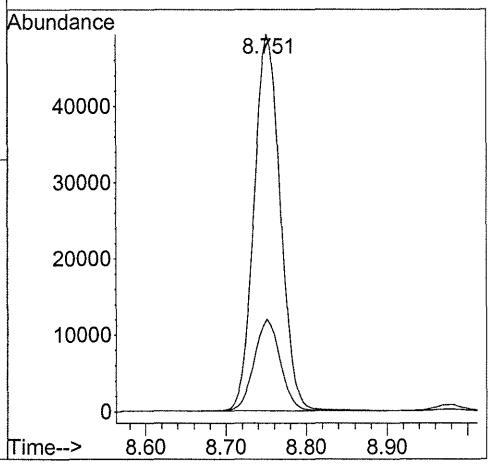


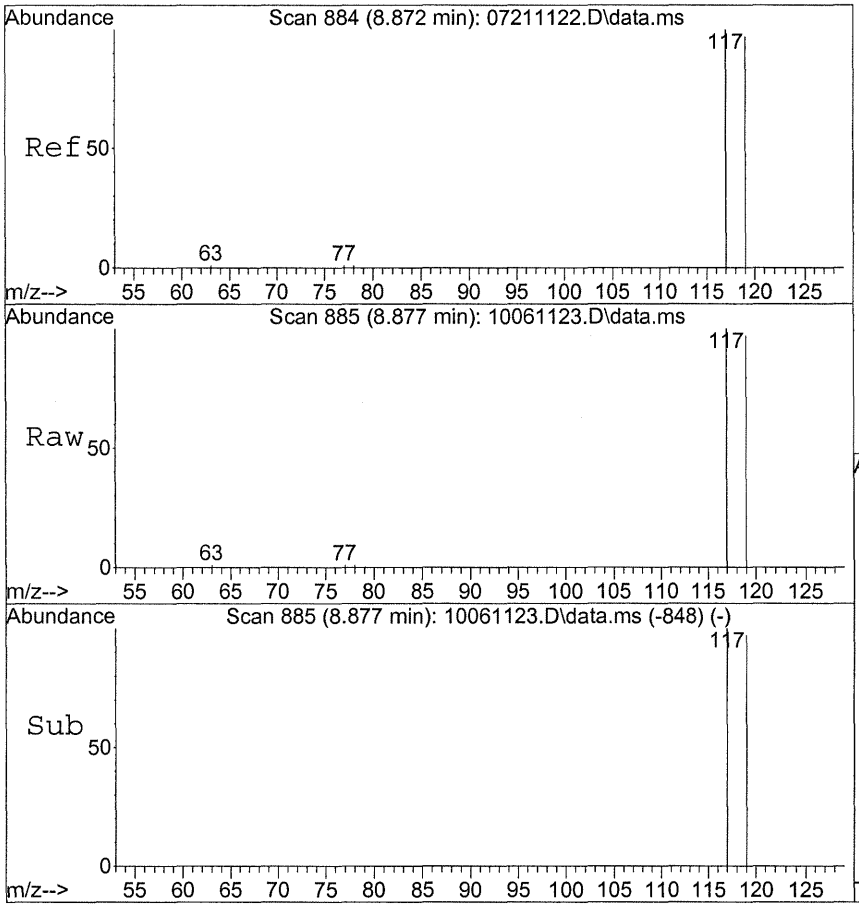


#20
Benzene
Concen: 276.45 pg
RT: 8.75 min Scan# 857
Delta R.T. 0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 78 Resp: 112552

Ion	Ratio	Lower	Upper
78	100		
77	24.2	4.0	44.0

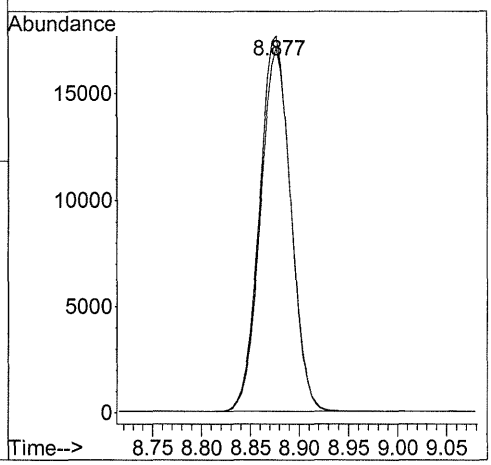


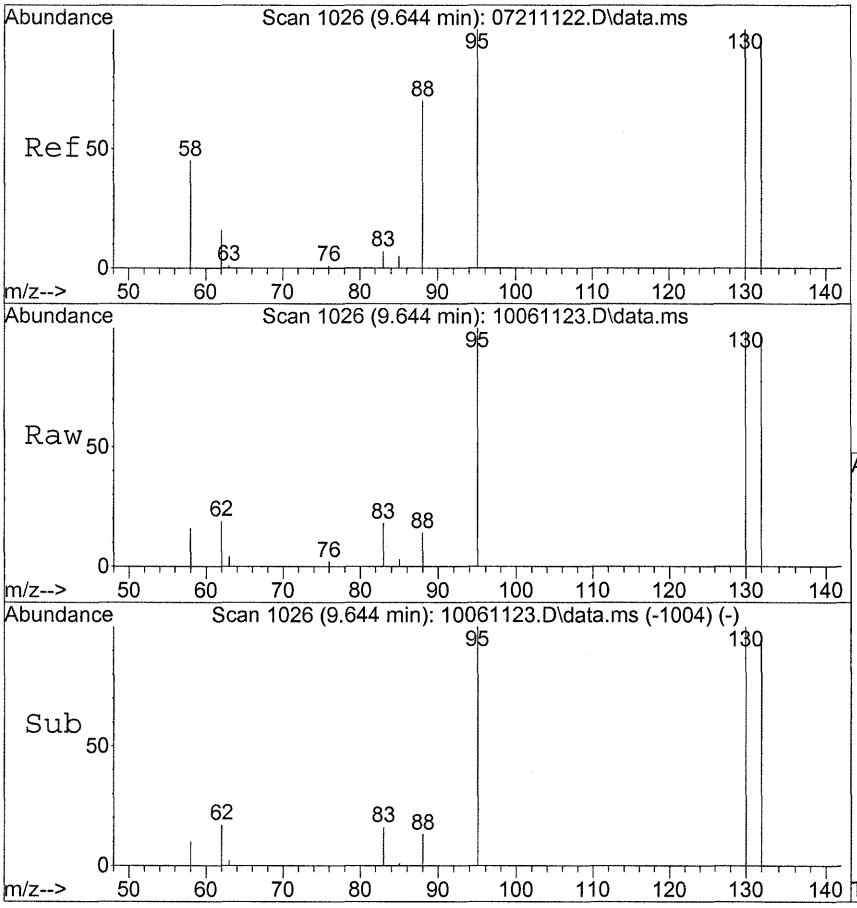


#21
Carbon Tetrachloride
Concen: 320.87 pg
RT: 8.88 min Scan# 885
Delta R.T. 0.005 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion:117 Resp: 38977

Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.5	117.5

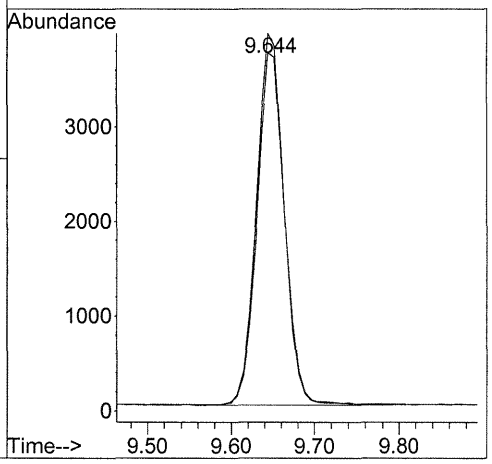


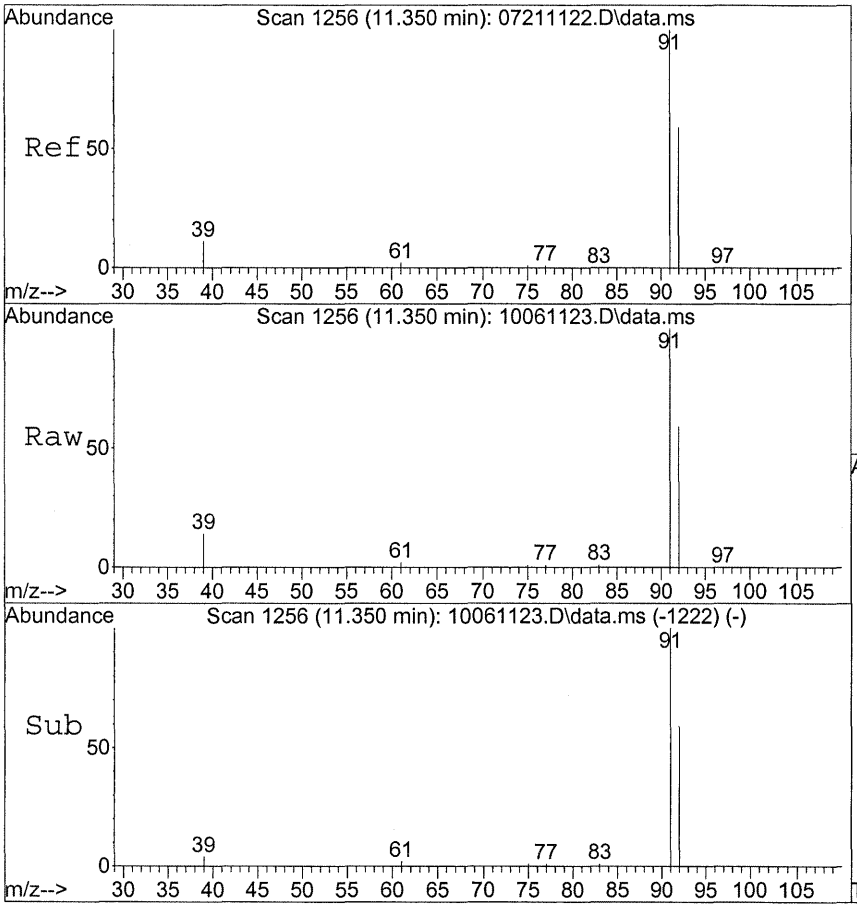


#25
Trichloroethene
Concen: 85.75 pg
RT: 9.64 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion:130 Resp: 9004

Ion	Ratio	Lower	Upper
130	100		
132	95.4	74.7	114.7

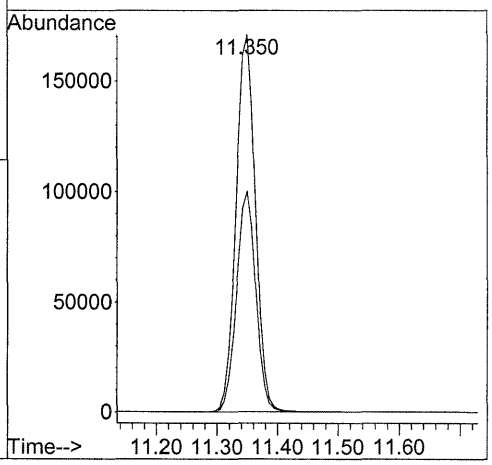


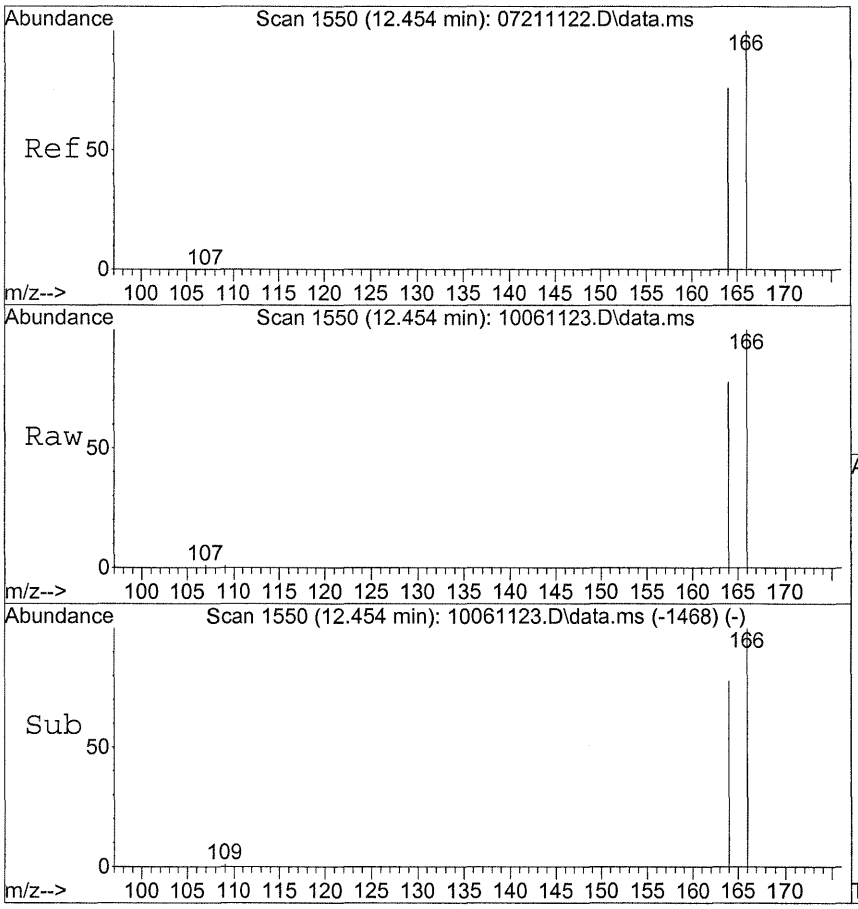


#31
Toluene
Concen: 948.70 pg
RT: 11.35 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 91 Resp: 381861

Ion	Ratio	Lower	Upper
91	100		
92	58.4	38.2	78.2

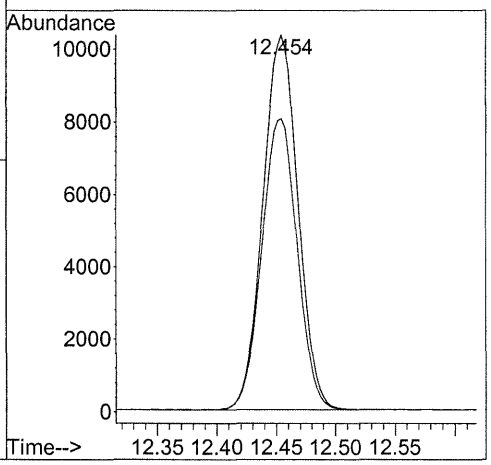


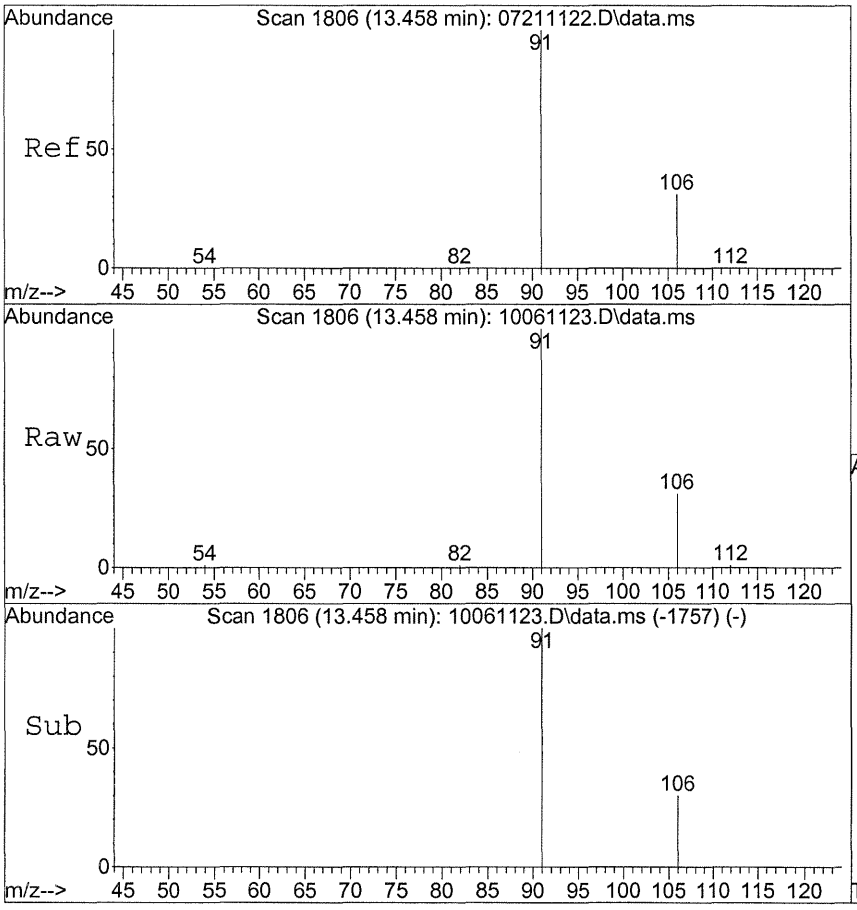


#33
Tetrachloroethene
Concen: 188.12 pg
RT: 12.45 min Scan# 1550
Delta R.T. 0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion:166 Resp: 21190

Ion	Ratio	Lower	Upper
166	100		
164	78.6	58.2	98.2

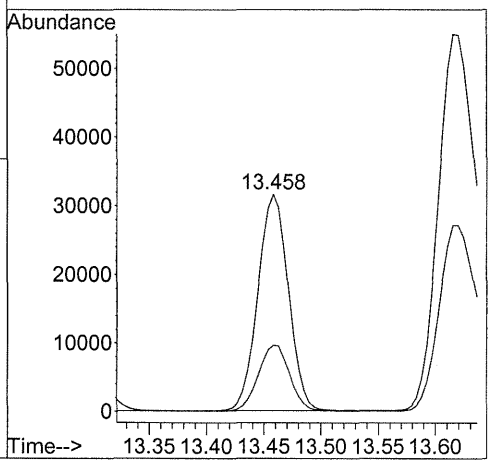


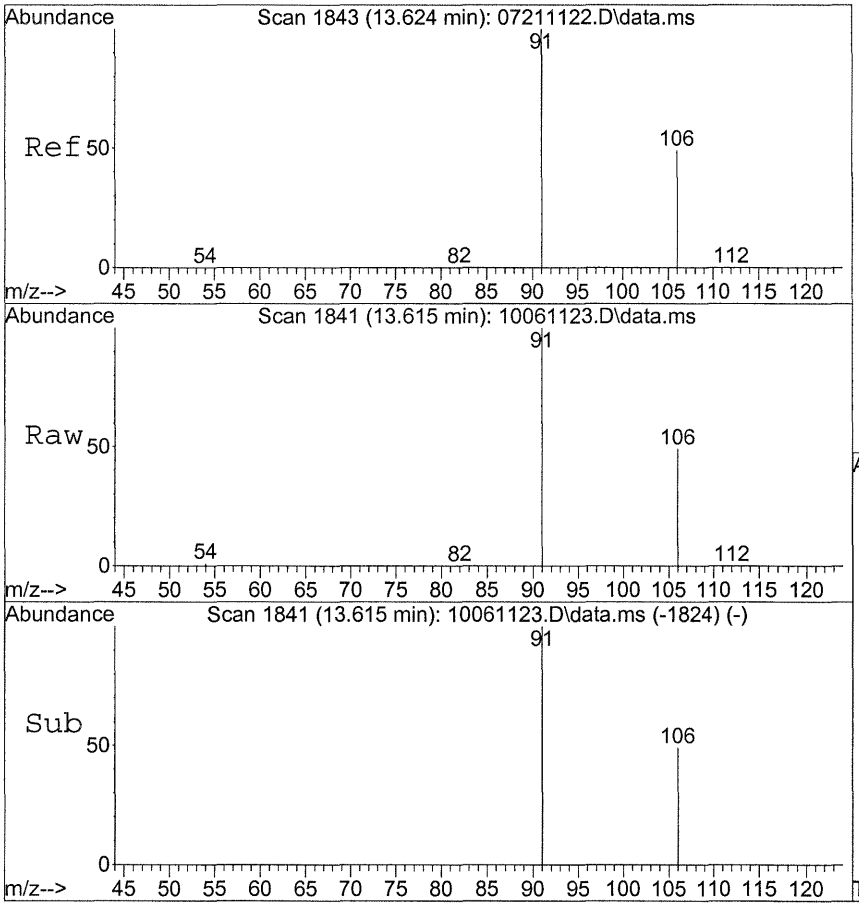


#36
Ethylbenzene
Concen: 134.14 pg
RT: 13.46 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 91 Resp: 58426

Ion	Ratio	Lower	Upper
91	100		
106	31.1	11.9	51.9

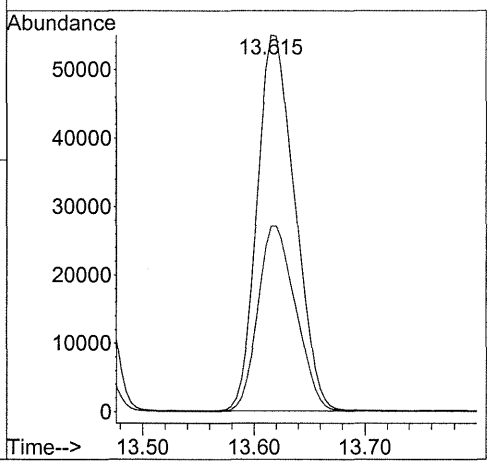


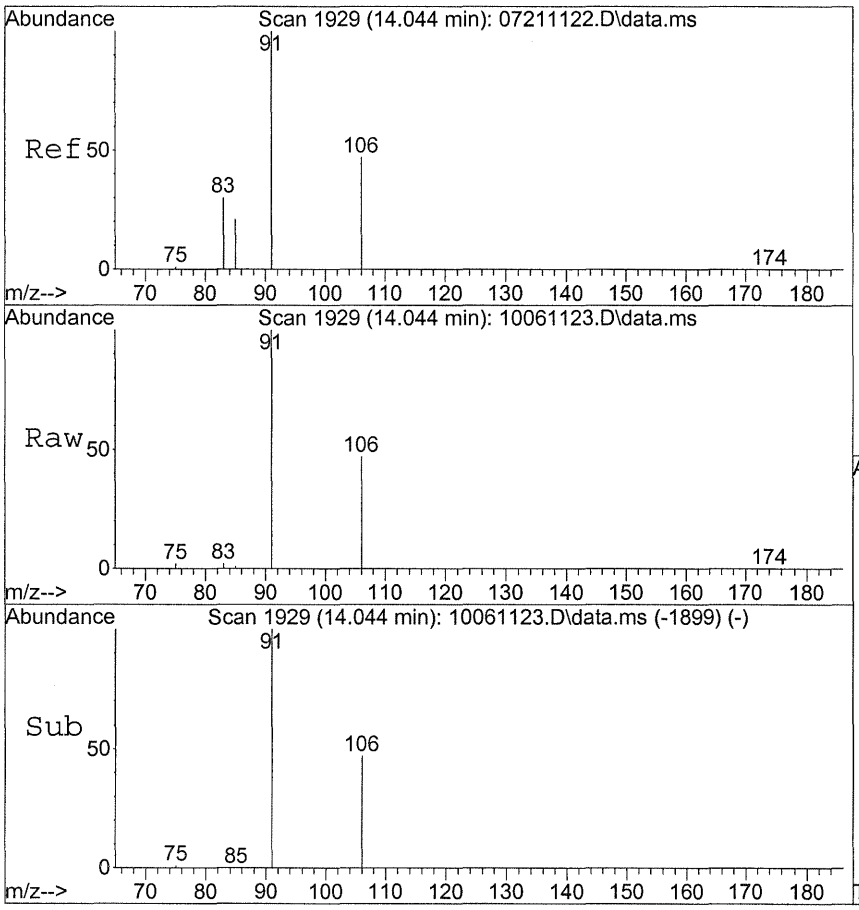


#37
m,p-Xylene
Concen: 368.04 pg
RT: 13.62 min Scan# 1841
Delta R.T. -0.009 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 91 Resp: 130513

Ion	Ratio	Lower	Upper
91	100		
106	49.5	30.3	70.3

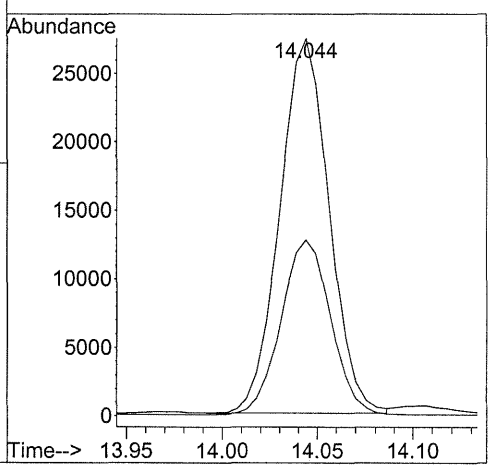


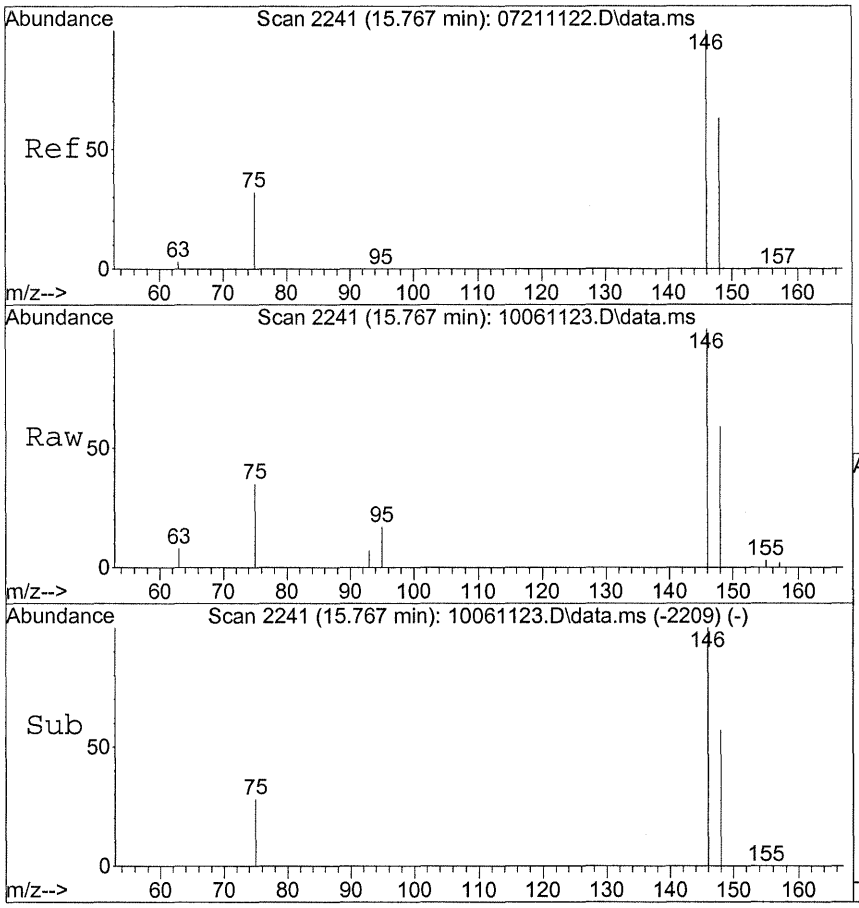


#38
o-Xylene
Concen: 136.86 pg
RT: 14.04 min Scan# 1929
Delta R.T. 0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion: 91 Resp: 49511

Ion	Ratio	Lower	Upper
91	100		
106	47.0	28.4	68.4

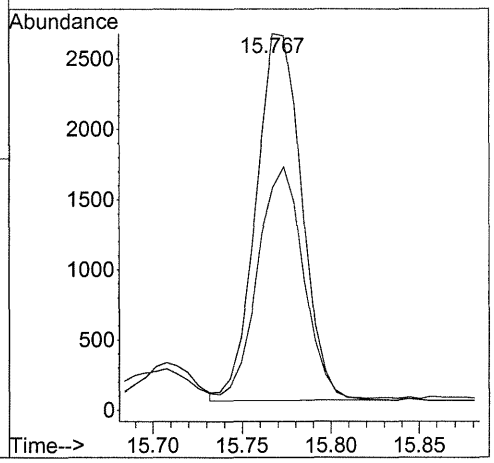


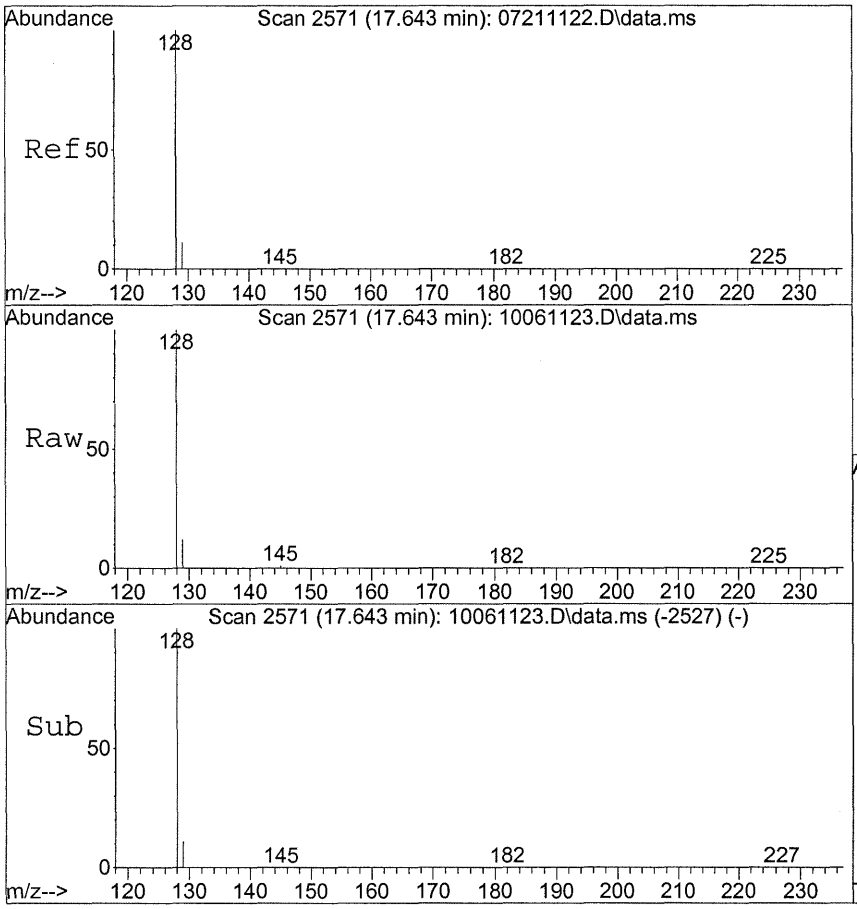


#42
1,4-Dichlorobenzene
Concen: 21.57 pg
RT: 15.77 min Scan# 2241
Delta R.T. 0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion:146 Resp: 4656

Ion	Ratio	Lower	Upper
146	100		
148	62.7	42.9	82.9

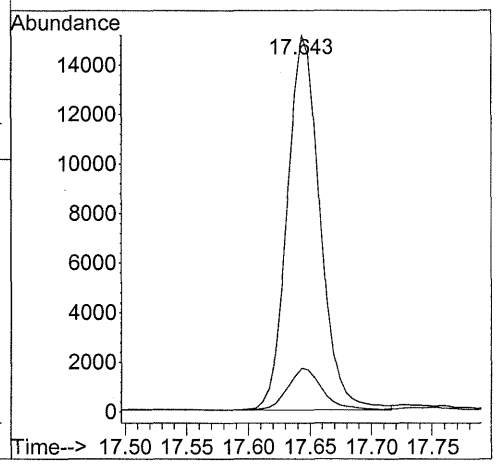




#45
Naphthalene
Concen: 52.79 pg
RT: 17.64 min Scan# 2571
Delta R.T. -0.000 min
Lab File: 10061123.D
Acq: 6 Oct 2011 19:31

Tgt Ion:128 Resp: 28024

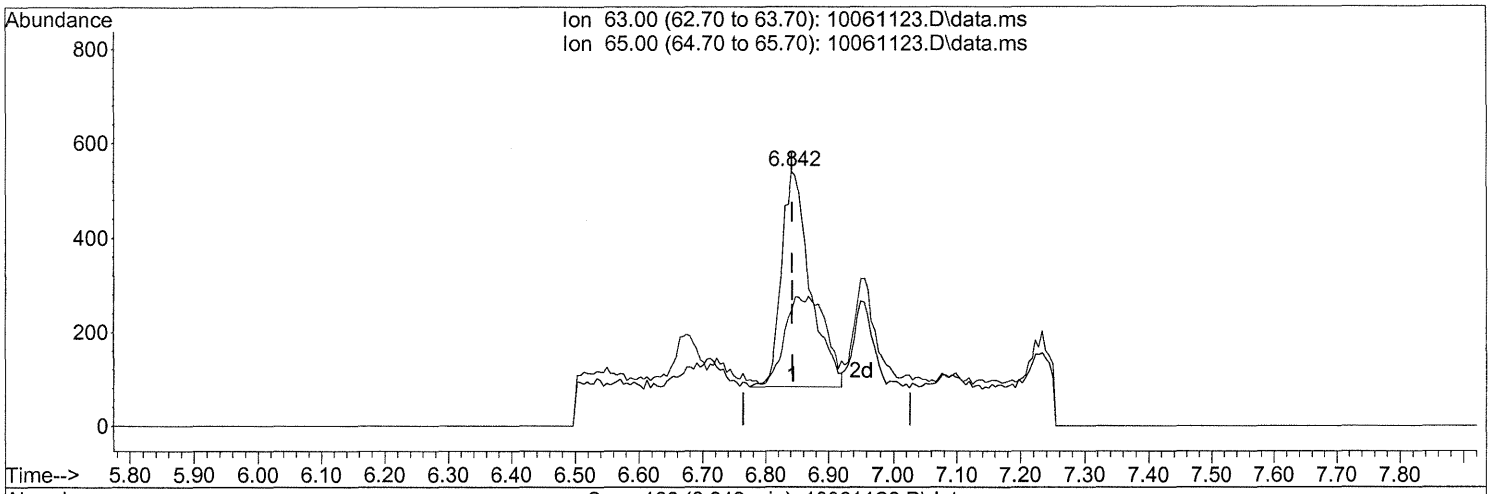
Ion	Ratio	Lower	Upper
128	100		
129	11.6	0.0	30.9

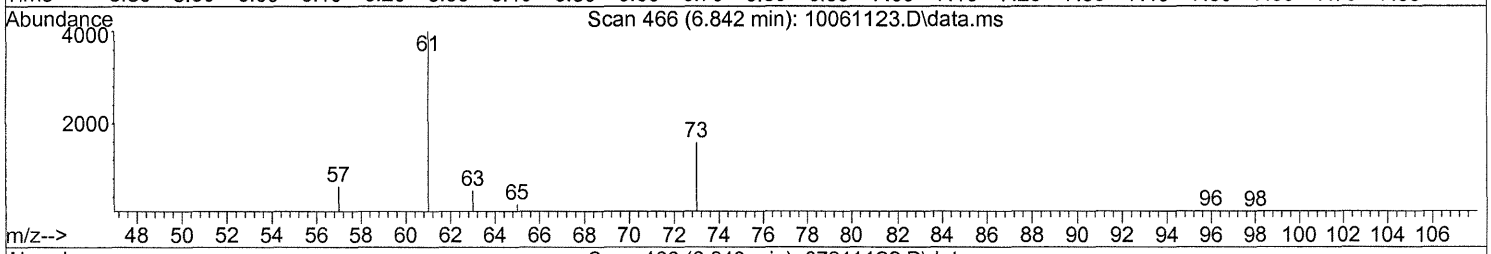


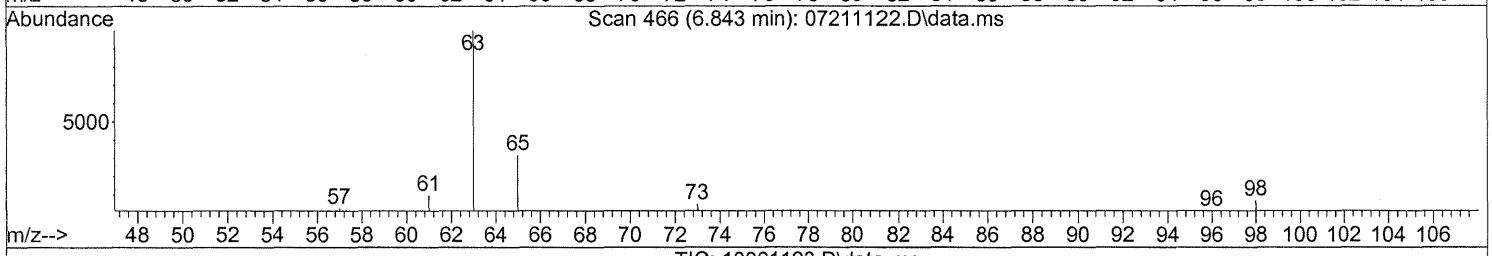
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061123.D
Acq On : 6 Oct 2011 19:31
Operator : KR
Sample : P1103662-005 (1000mL)
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 20:30:06 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061123.D\data.ms

(13) 1,1-Dichloroethane (T)

6.842min (-0.001) 9.66pg

response 1436

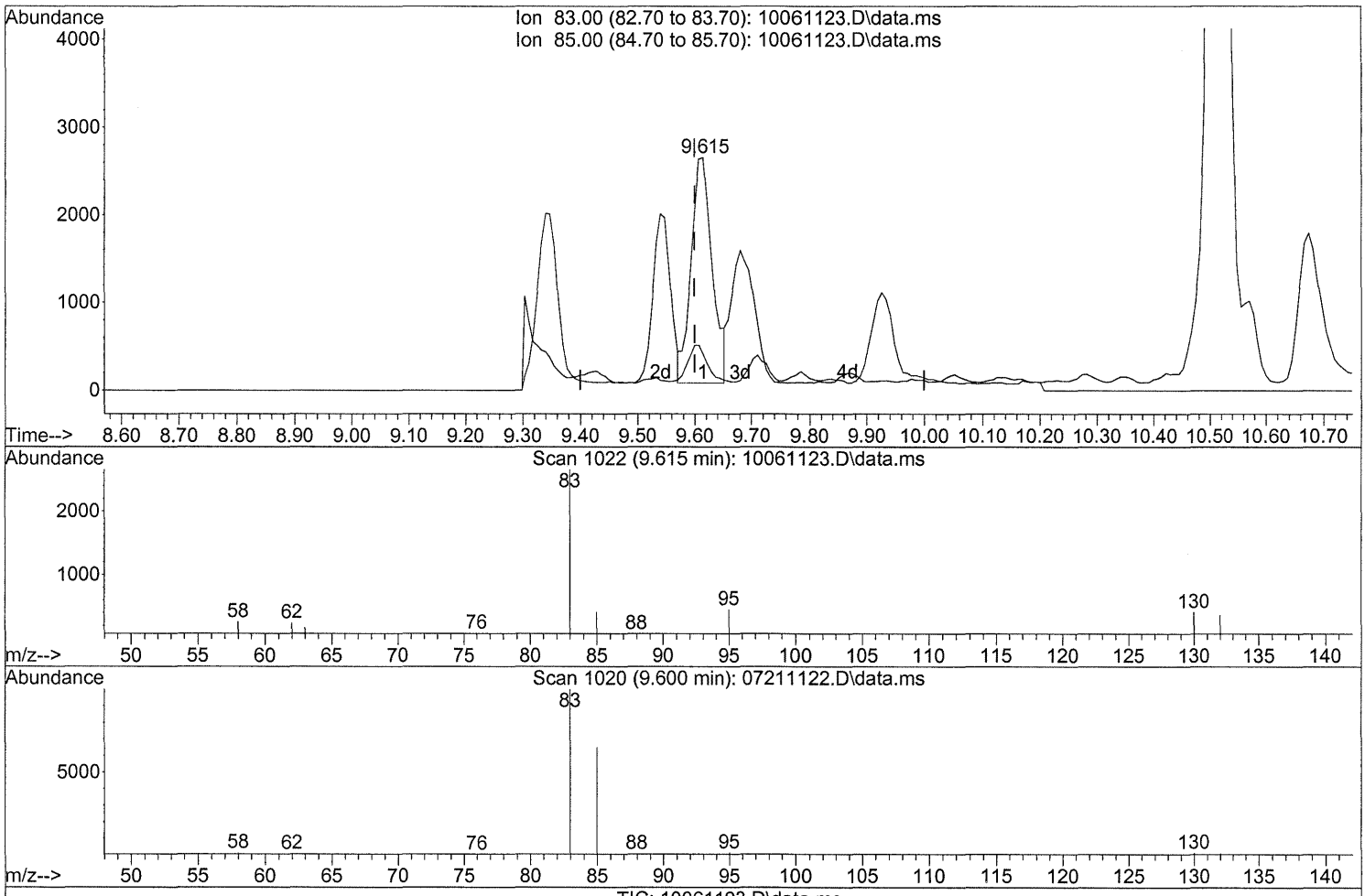
Ion	Exp%	Act%
63.00	100	100
65.00	31.80	59.05#
0.00	0.00	0.00
0.00	0.00	0.00

TP

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061123.D
Acq On : 6 Oct 2011 19:31
Operator : KR
Sample : P1103662-005 (1000mL)
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 20:30:06 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061123.D\data.ms

(24) Bromodichloromethane (T)

9.615min (+0.015) 53.88pg

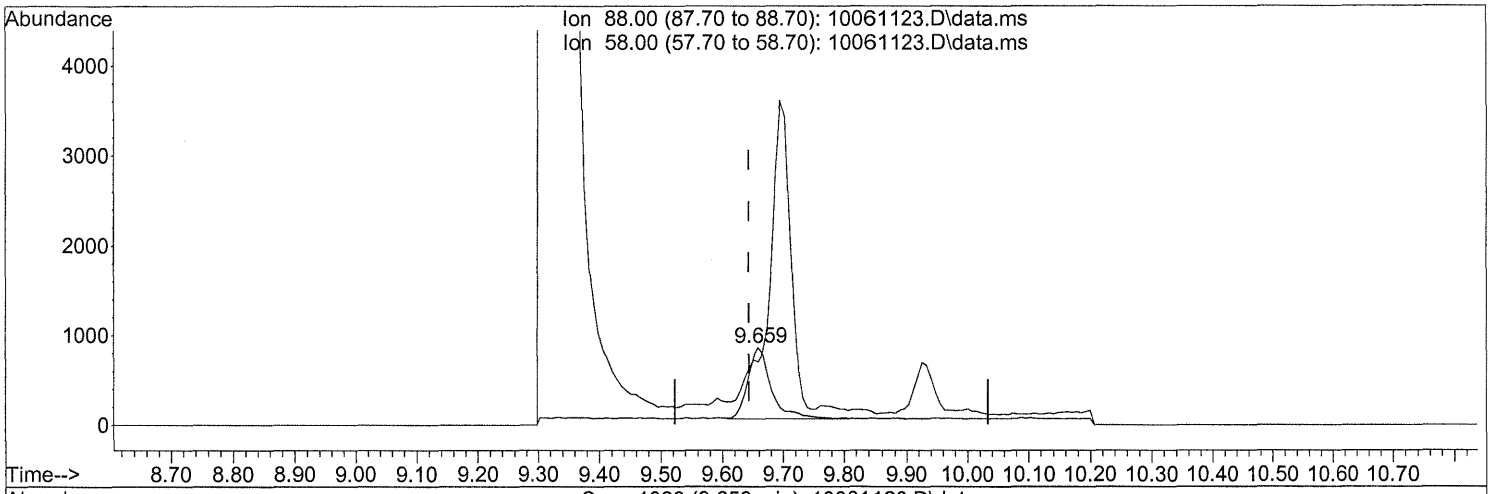
response 6627

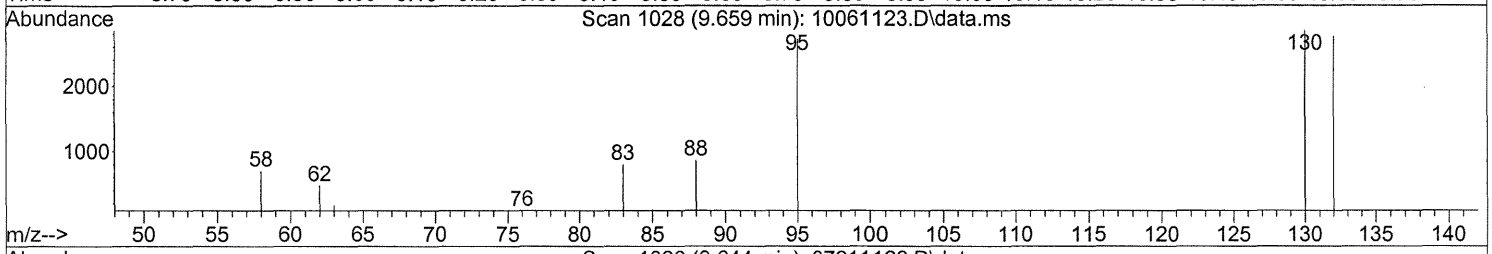
Ion	Exp%	Act%
83.00	100	100
85.00	63.50	14.58#
0.00	0.00	0.00
0.00	0.00	0.00

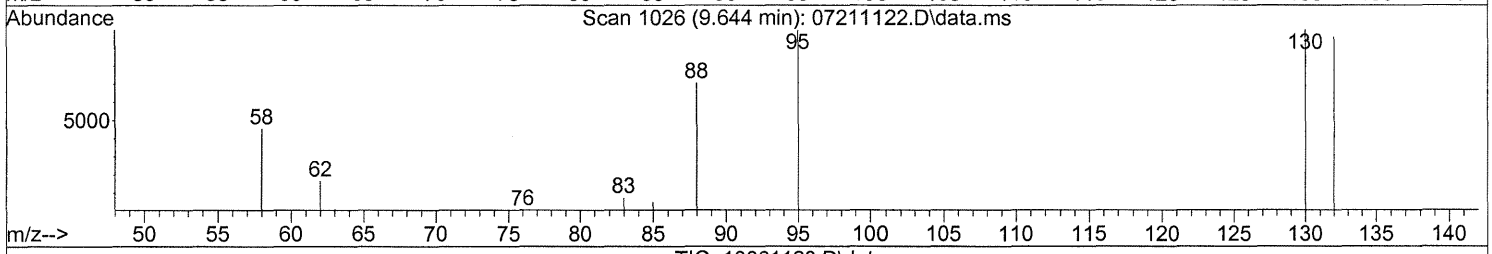
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061123.D
Acq On : 6 Oct 2011 19:31
Operator : KR
Sample : P1103662-005 (1000mL)
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 20:30:06 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061123.D\data.ms

(26) 1,4-Dioxane (T)

9.659min (+0.015) 26.65pg

response 2113

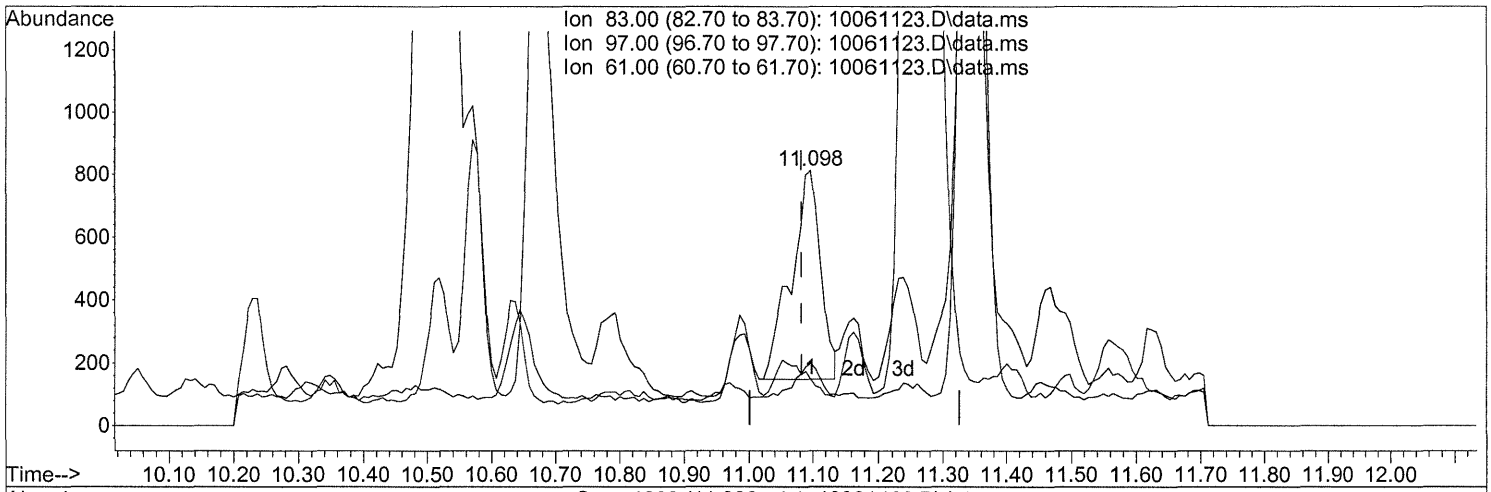
Ion	Exp%	Act%
88.00	100	100
58.00	63.80	394.18#
0.00	0.00	0.00
0.00	0.00	0.00

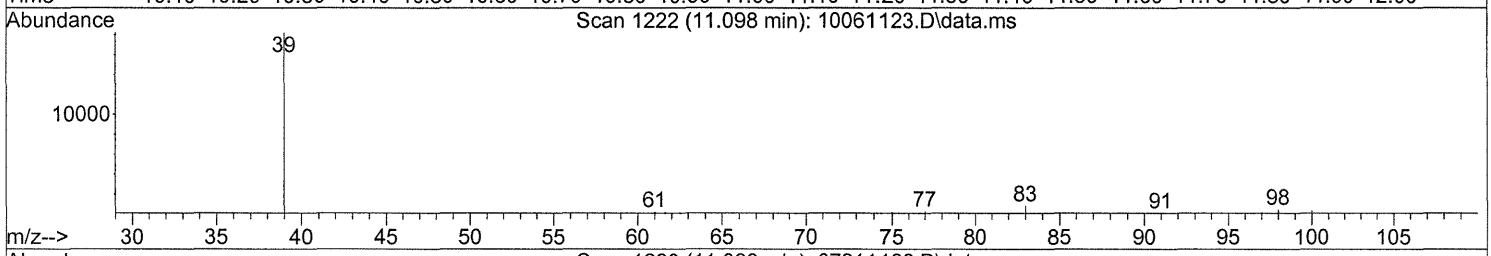
FP

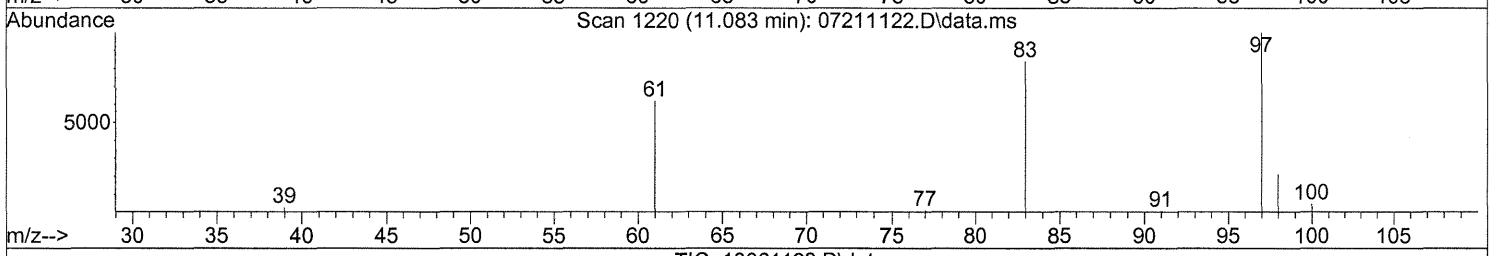
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061123.D
Acq On : 6 Oct 2011 19:31
Operator : KR
Sample : P1103662-005 (1000mL)
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 20:30:06 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061123.D\data.ms

(29) 1,1,2-Trichloroethane (T)

11.098min (+0.014) 28.44pg

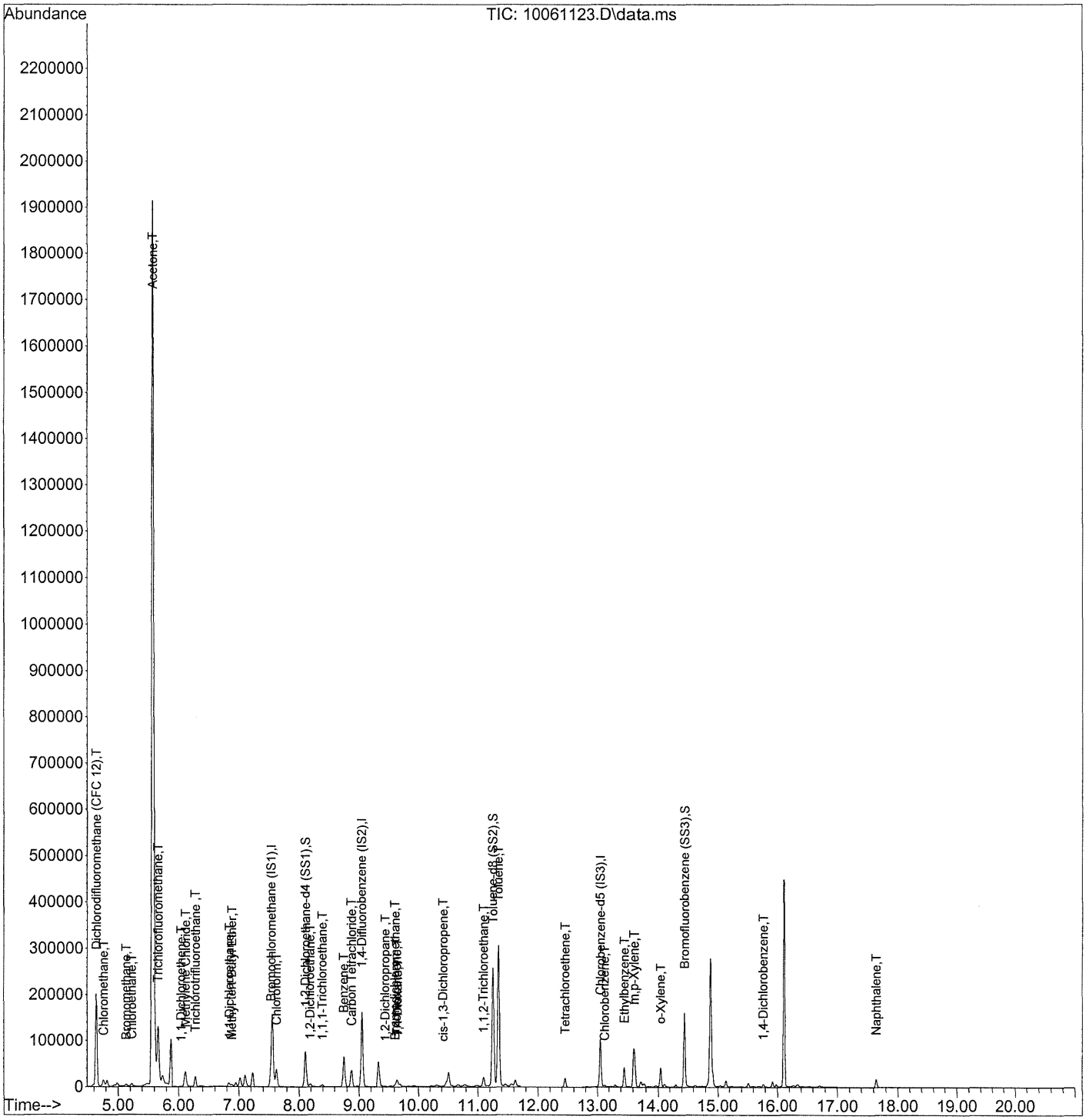
response 2128

Ion	Exp%	Act%
83.00	100	100
97.00	120.30	0.00#
61.00	77.00	13.63#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061123.D
Acq On : 6 Oct 2011 19:31
Operator : KR
Sample : P1103662-005 (1000mL)
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 20:30:06 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061123.D
Acq On : 6 Oct 2011 19:31
Operator : KR
Sample : P1103662-005 (1000mL)
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 20:30:06 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	62968	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	298847	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	145248	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.11	65	117875	957.50	pg		0.00
Spiked Amount 1000.000			Recovery = 95.75%				
30) Toluene-d8 (SS2)	11.25	98	332999	1025.00	pg		0.00
Spiked Amount 1000.000			Recovery = 102.50%				
40) Bromofluorobenzene (SS3)	14.45	174	115391	997.80	pg		0.00
Spiked Amount 1000.000			Recovery = 99.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.64	85	252532	1365.89	pg		98
3) Chloromethane	4.76	52	7854	172.26	pg		100
4) Vinyl Chloride	4.90	62	292	N.D.			
5) Bromomethane	5.13	94	4443	60.82	pg		97
6) Chloroethane	5.23	64	8469	99.58	pg		98
7) Acetone	5.58	58	1080981	14891.41	pg		100
8) Trichlorofluoromethane	5.66	101	136828	790.42	pg		98
9) 1,1-Dichloroethene	6.04	96	528	6.40	pg		90
10) Methylene Chloride	6.12	84	26852	272.61	pg		91
11) Trichlorotrifluoroethane	6.28	151	24568	308.55	pg		100
12) trans-1,2-Dichloroethene	6.71	96	237	N.D.			
13) 1,1-Dichloroethane	6.84	63	1436	9.66	pg	#	51
14) Methyl tert-Butyl Ether	6.88	73	5474	17.93	pg	#	1
15) cis-1,2-Dichloroethene	7.41	96	199	N.D.			
16) Chloroform	7.63	83	48506	277.25	pg		98
18) 1,2-Dichloroethane	8.19	62	4243	30.22	pg		96
19) 1,1,1-Trichloroethane	8.39	97	3989	25.71	pg		99
20) Benzene	8.75	78	112552	276.45	pg		99
21) Carbon Tetrachloride	8.88	117	38977	320.87	pg		98
23) 1,2-Dichloropropane	9.44	63	784	8.35	pg		94
24) Bromodichloromethane	9.61	83	6627	53.88	pg	#	37
25) Trichloroethene	9.64	130	9004	85.75	pg		99
26) 1,4-Dioxane	9.66	88	2113	26.65	pg	#	1
27) cis-1,3-Dichloropropene	10.42	75	533	3.61	pg	#	43
28) trans-1,3-Dichloropropene	10.92	75	455	N.D.			
29) 1,1,2-Trichloroethane	11.10	83	2128	28.44	pg	#	5
31) Toluene	11.35	91	381861	948.70	pg		100
32) 1,2-Dibromoethane	11.97	107	19	N.D.			
33) Tetrachloroethene	12.45	166	21190	188.12	pg		100
35) Chlorobenzene	13.13	112	2671	10.79	pg	#	62

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061123.D
Acq On : 6 Oct 2011 19:31
Operator : KR
Sample : P1103662-005 (1000mL)
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 20:30:06 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

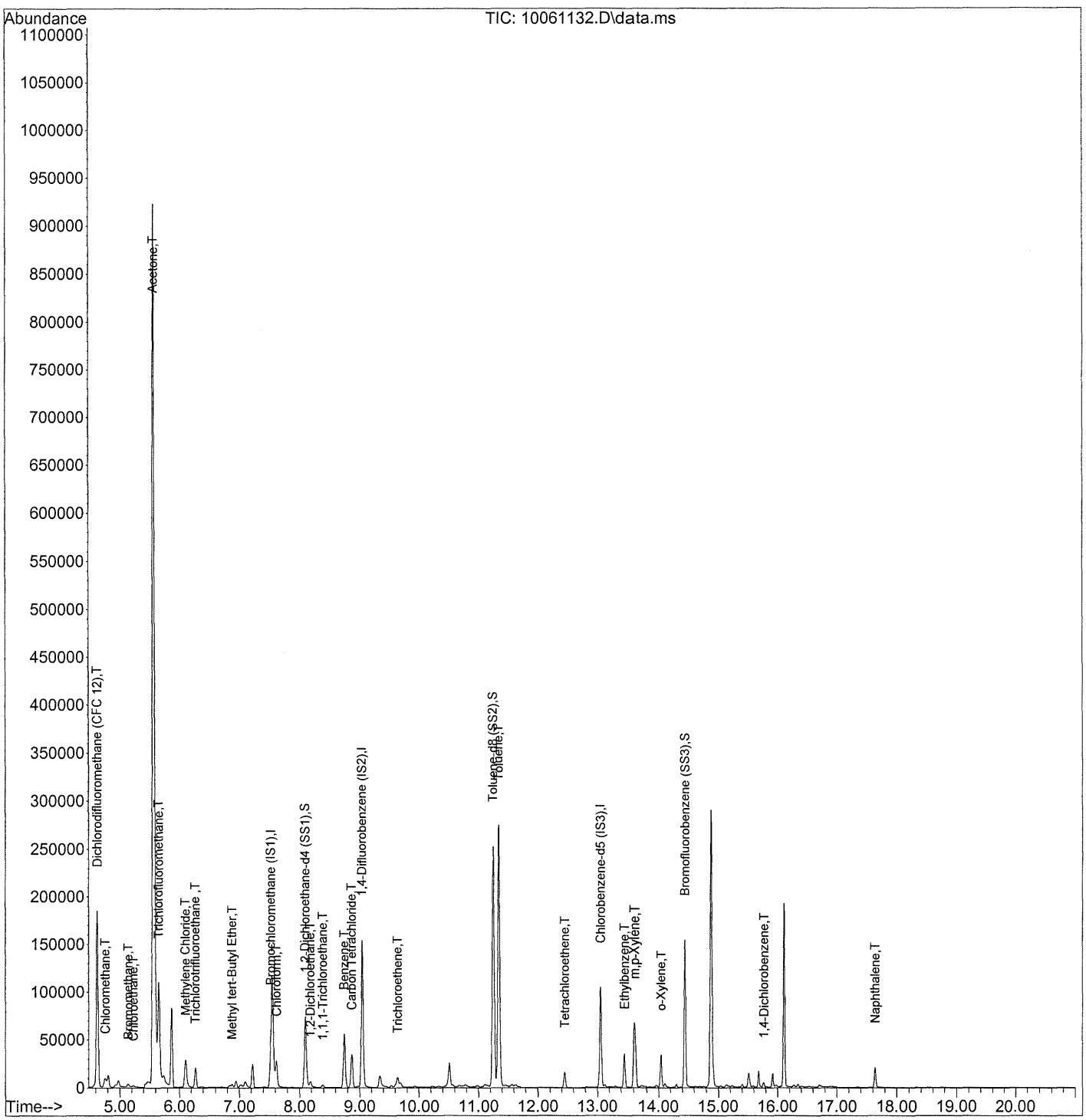
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Ethylbenzene	13.46	91	58426	134.14 pg	99
37) m,p-Xylene	13.62	91	130513	368.04 pg	99
38) o-Xylene	14.04	91	49511	136.86 pg	98
39) 1,1,2,2-Tetrachloroethane	14.04	83	443	N.D.	
41) 1,3-Dichlorobenzene	15.71	146	540	N.D.	
42) 1,4-Dichlorobenzene	15.77	146	4656	21.57 pg	100
43) 1,2-Dichlorobenzene	16.07	146	273	N.D.	
44) 1,2,4-Trichlorobenzene	17.56	182	217	N.D.	
45) Naphthalene	17.64	128	28024	52.79 pg	98
46) Hexachlorobutadiene	17.97	225	183	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 08:23:38 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

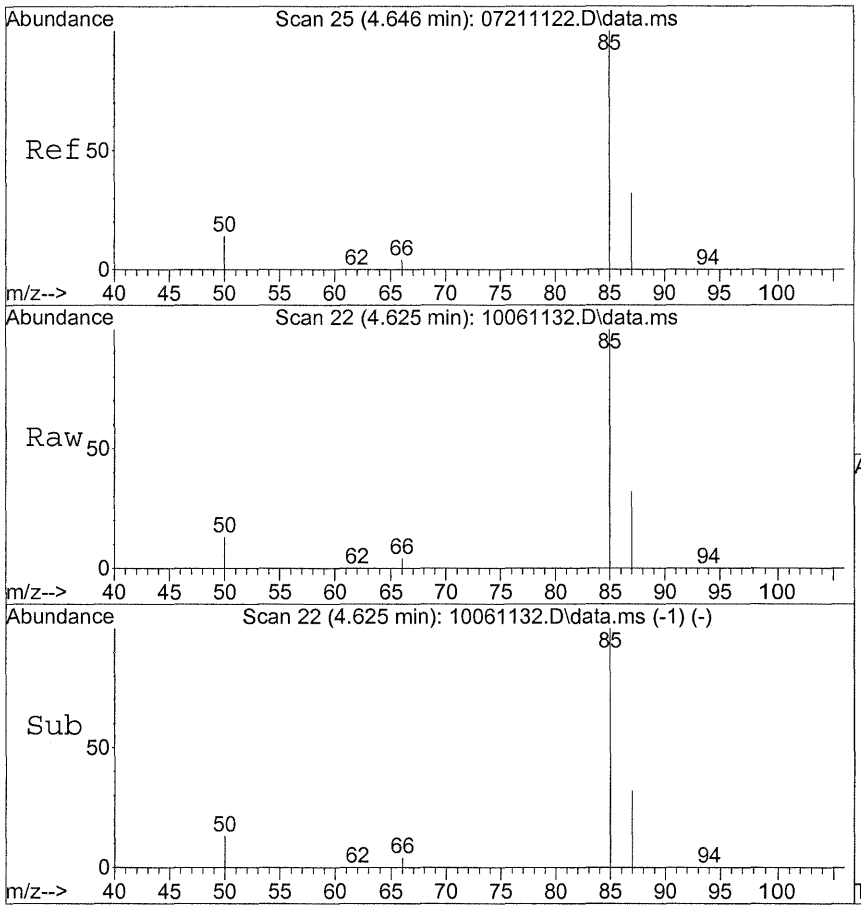
Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 08:23:38 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	63577	1000.00	pg		-0.01
22) 1,4-Difluorobenzene (IS2)	9.04	114	289932	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	147208	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.10	65	119349	960.19	pg		0.00
Spiked Amount 1000.000			Recovery = 96.02%				
30) Toluene-d8 (SS2)	11.25	98	329294	1044.76	pg		0.00
Spiked Amount 1000.000			Recovery = 104.48%				
40) Bromofluorobenzene (SS3)	14.45	174	112221	957.47	pg		0.00
Spiked Amount 1000.000			Recovery = 95.75%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.63	85	234868	1258.18	pg		98
3) Chloromethane	4.76	52	5168m	112.26	pg		
5) Bromomethane	5.14	94	3640	49.35	pg		96
6) Chloroethane	5.23	64	2087	24.31	pg		71
7) Acetone	5.57	58	489815	6682.97	pg	#	79
8) Trichlorofluoromethane	5.65	101	116863	668.62	pg		98
10) Methylene Chloride	6.10	84	25555	256.95	pg		92
11) Trichlorotrifluoroethane	6.27	151	22573	280.78	pg		100
14) Methyl tert-Butyl Ether	6.88	73	4829m	15.66	pg		
16) Chloroform	7.61	83	33941	192.14	pg		98
18) 1,2-Dichloroethane	8.18	62	3988	28.13	pg		100
19) 1,1,1-Trichloroethane	8.39	97	3244	20.71	pg		99
20) Benzene	8.75	78	100301	244.00	pg		100
21) Carbon Tetrachloride	8.87	117	38233	311.73	pg		99
25) Trichloroethene	9.64	130	6975	68.47	pg		99
31) Toluene	11.35	91	357157	914.61	pg		100
33) Tetrachloroethene	12.45	166	18531	169.57	pg		100
36) Ethylbenzene	13.46	91	49418	111.95	pg		98
37) m,p-Xylene	13.62	91	106940	297.55	pg		99
38) o-Xylene	14.04	91	42407	115.66	pg		95
42) 1,4-Dichlorobenzene	15.77	146	4142	18.93	pg		98
45) Naphthalene	17.64	128	33839	62.89	pg		98

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

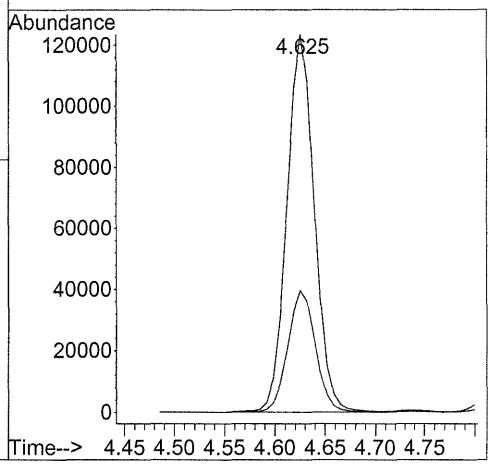
10/7/11

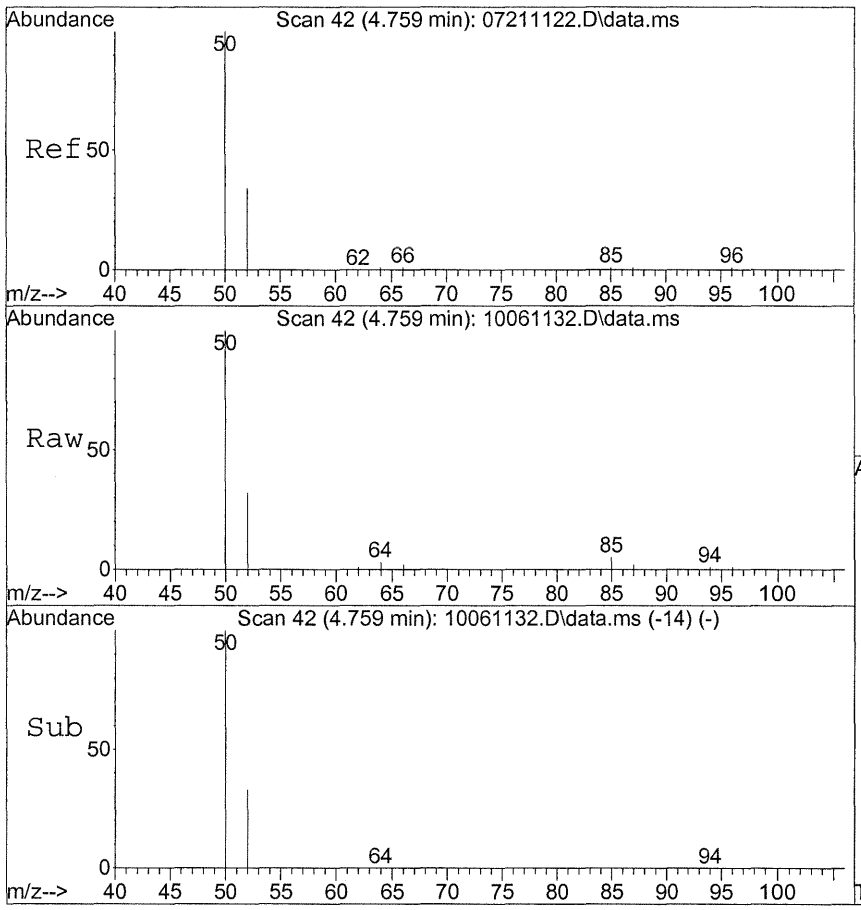


#2
Dichlorodifluoromethane (CFC
Concen: 1258.18 pg
RT: 4.63 min Scan# 22
Delta R.T. -0.021 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 85 Resp: 234868

Ion	Ratio	Lower	Upper
85	100		
87	32.3	13.3	53.3

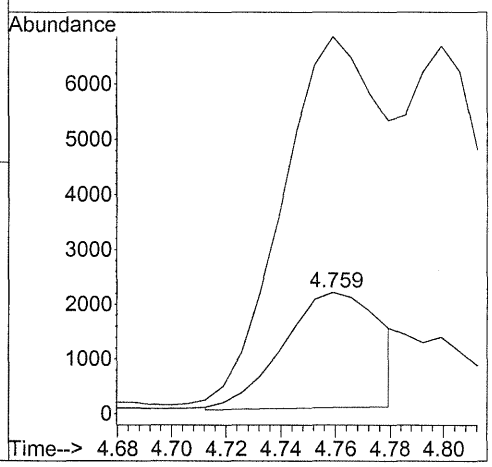


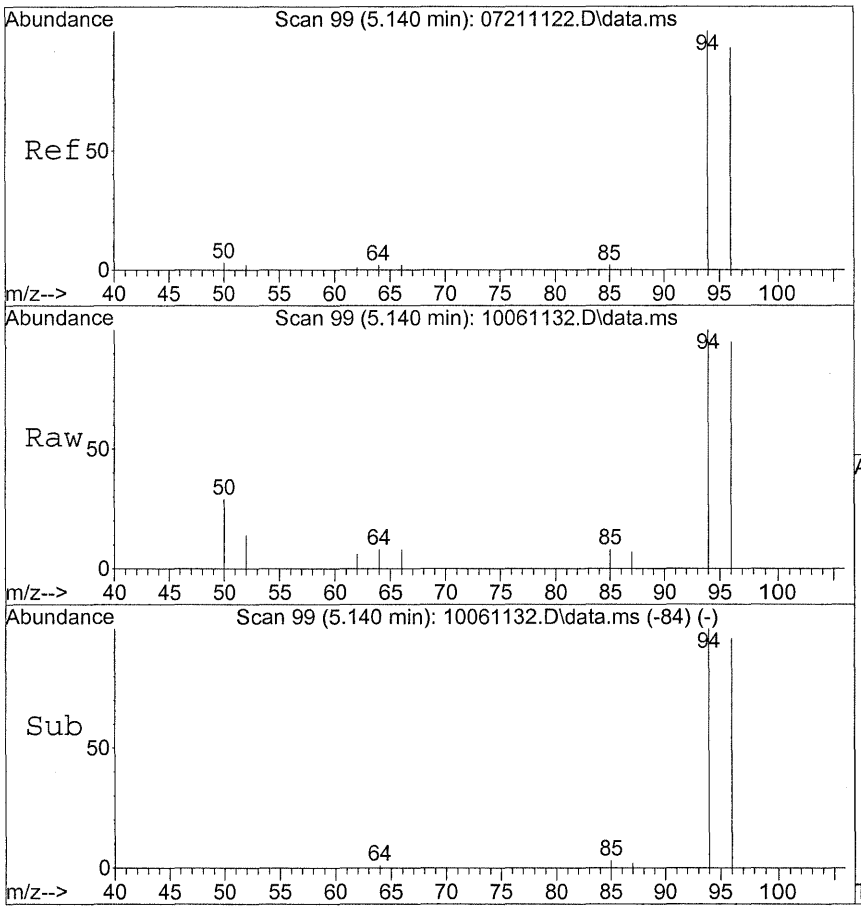


#3
Chloromethane
Concen: 112.26 pg m
RT: 4.76 min Scan# 42
Delta R.T. 0.000 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 52 Resp: 5168

Ion	Ratio	Lower	Upper
52	100		
50	325.3	285.3	325.3

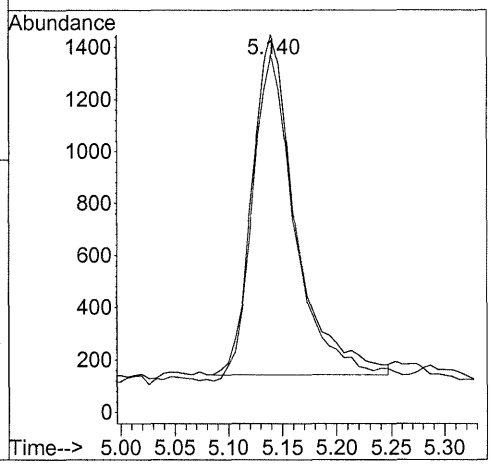


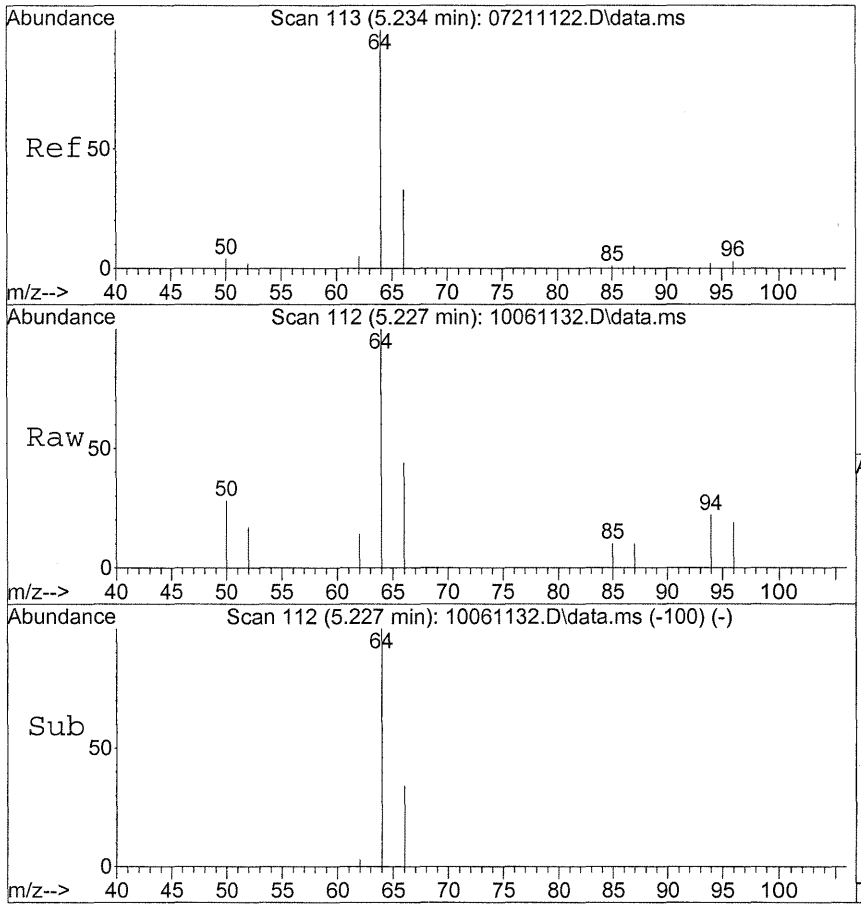


#5
Bromomethane
Concen: 49.35 pg
RT: 5.14 min Scan# 99
Delta R.T. 0.000 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 94 Resp: 3640

Ion	Ratio	Lower	Upper
94	100		
96	96.7	74.2	111.4

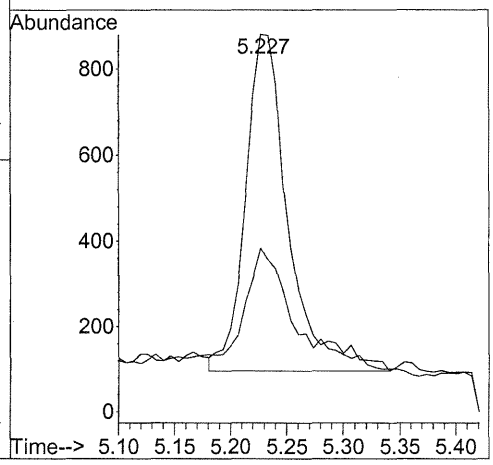


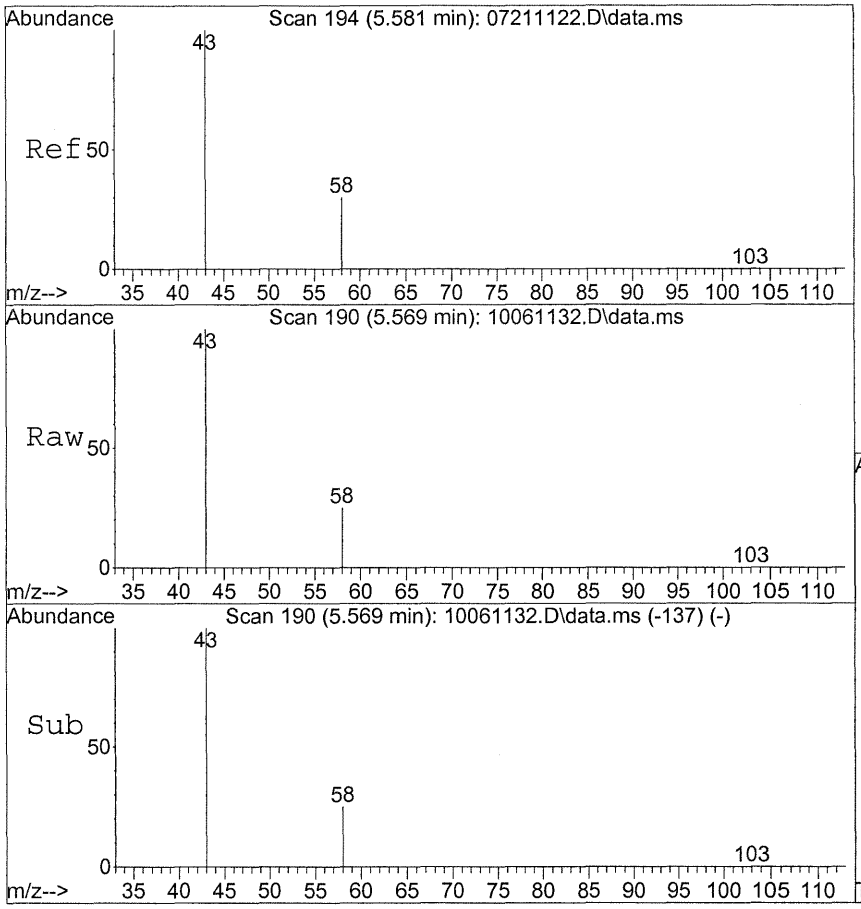


#6
Chloroethane
Concen: 24.31 pg
RT: 5.23 min Scan# 112
Delta R.T. -0.007 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 64 Resp: 2087

Ion	Ratio	Lower	Upper
64	100		
66	48.3	12.0	52.0

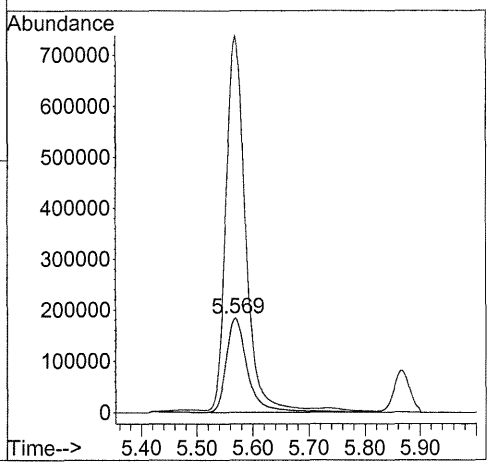


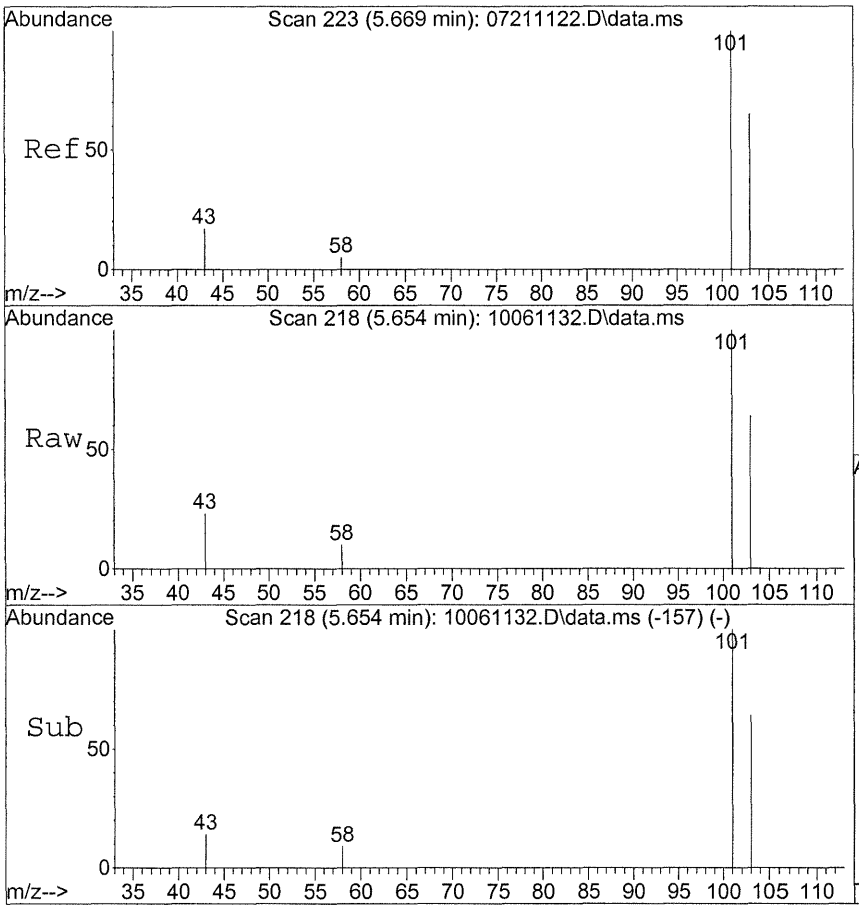


#7
Acetone
Concen: 6682.97 pg
RT: 5.57 min Scan# 190
Delta R.T. -0.012 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 58 Resp: 489815

Ion	Ratio	Lower	Upper
58	100		
43	371.1	307.2	347.2#

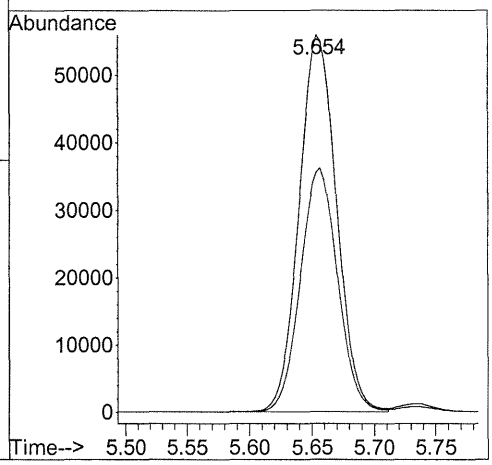


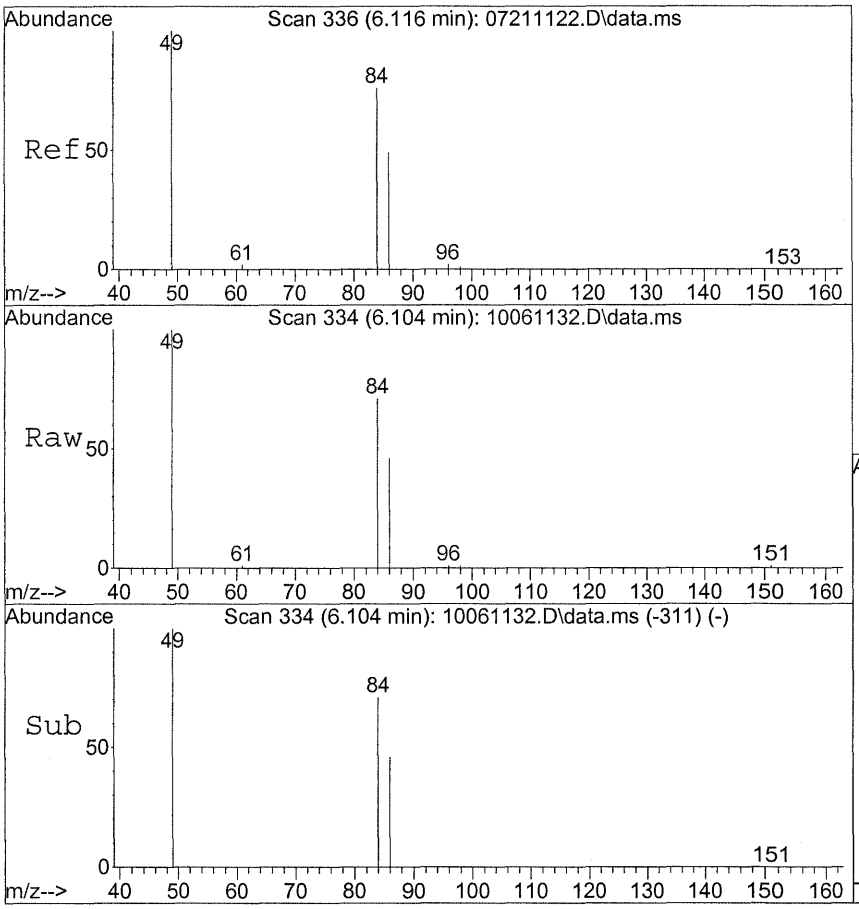


#8
Trichlorofluoromethane
Concen: 668.62 pg
RT: 5.65 min Scan# 218
Delta R.T. -0.015 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion:101 Resp: 116863

Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.6	75.8

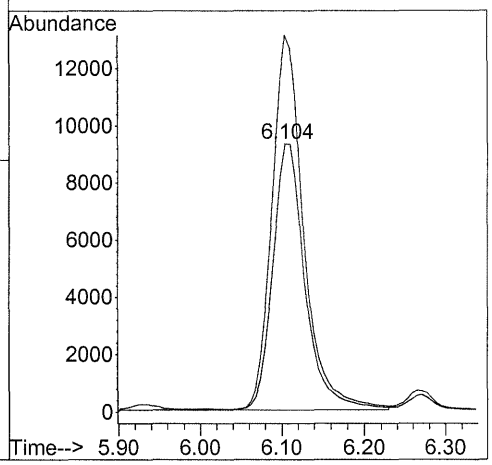


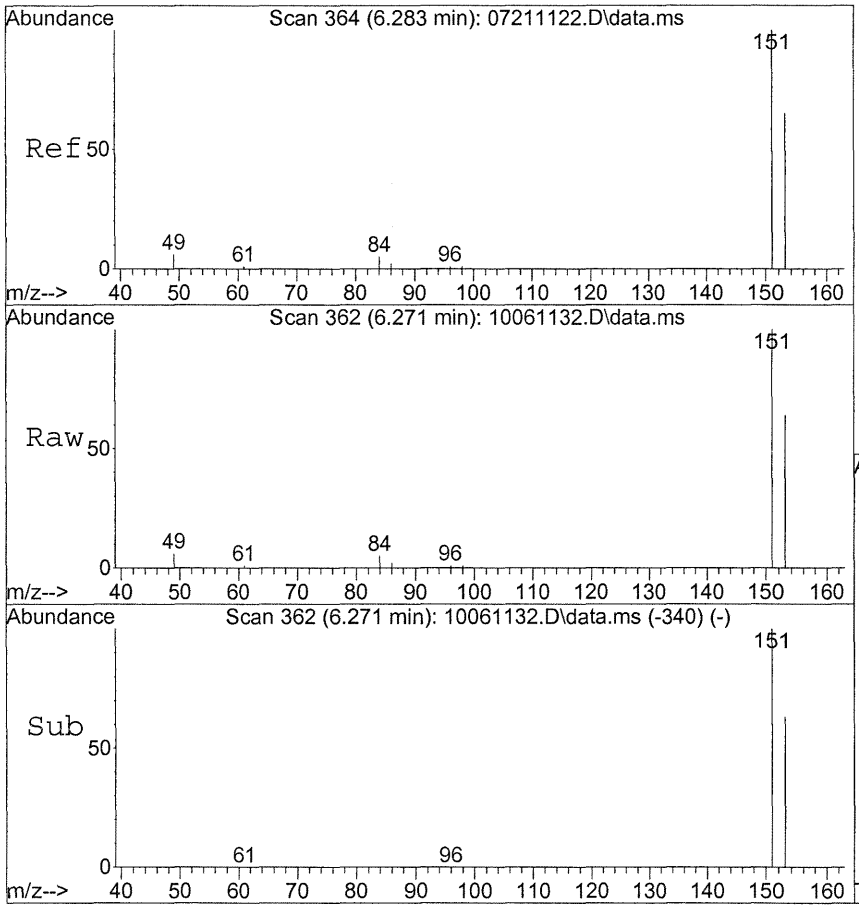


#10
Methylene Chloride
Concen: 256.95 pg
RT: 6.10 min Scan# 334
Delta R.T. -0.012 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 84 Resp: 25555

Ion	Ratio	Lower	Upper
84	100		
49	137.2	107.9	147.9

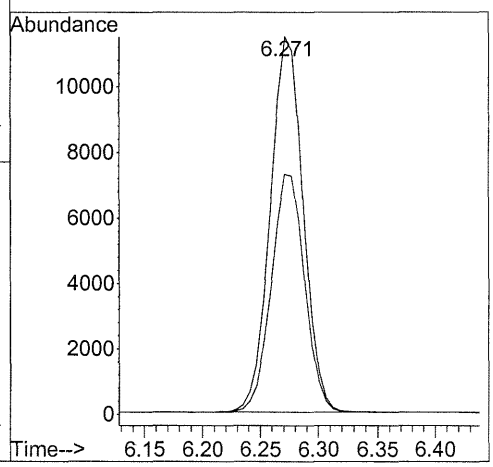


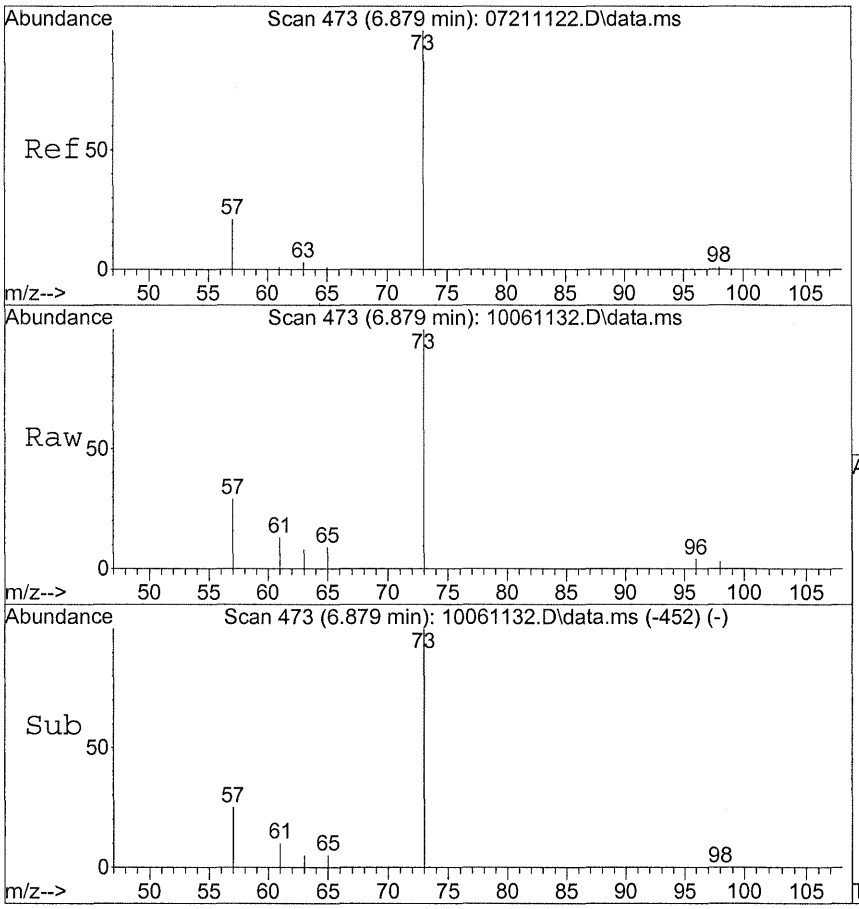


#11
Trichlorotrifluoroethane
Concen: 280.78 pg
RT: 6.27 min Scan# 362
Delta R.T. -0.012 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion:151 Resp: 22573

Ion	Ratio	Lower	Upper
151	100		
153	64.4	44.1	84.1

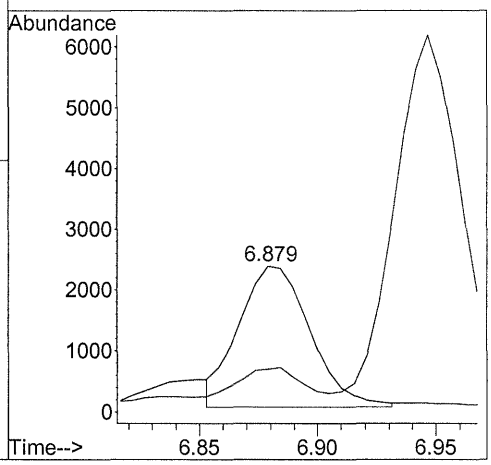


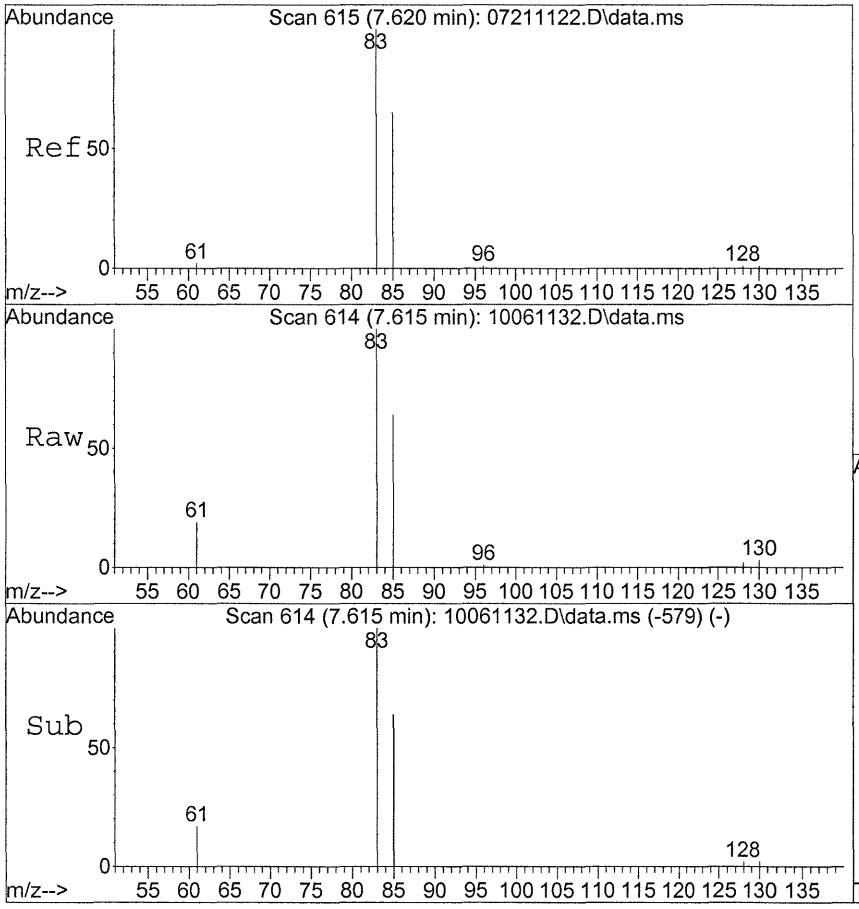


#14
Methyl tert-Butyl Ether
Concen: 15.66 pg m
RT: 6.88 min Scan# 473
Delta R.T. -0.000 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 73 Resp: 4829

Ion	Ratio	Lower	Upper
73	100		
57	17.1	1.2	41.2

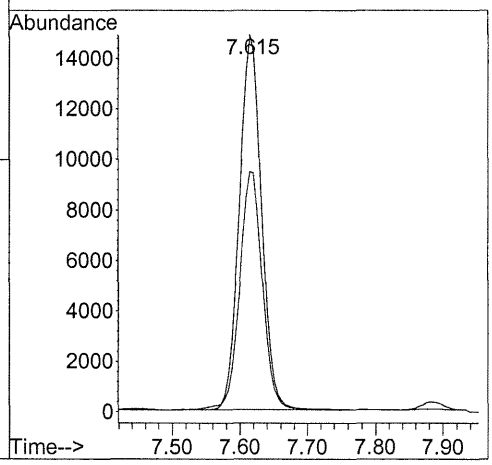


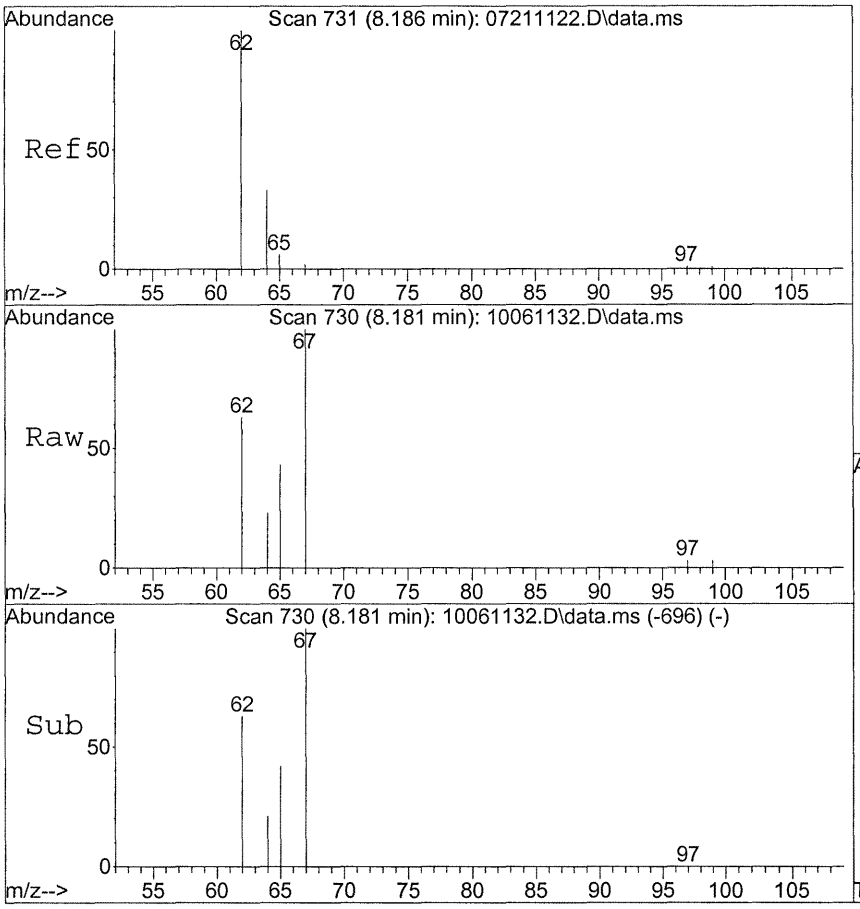


#16
Chloroform
Concen: 192.14 pg
RT: 7.61 min Scan# 614
Delta R.T. -0.005 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 83 Resp: 33941

Ion	Ratio	Lower	Upper
83	100		
85	65.7	44.4	84.4

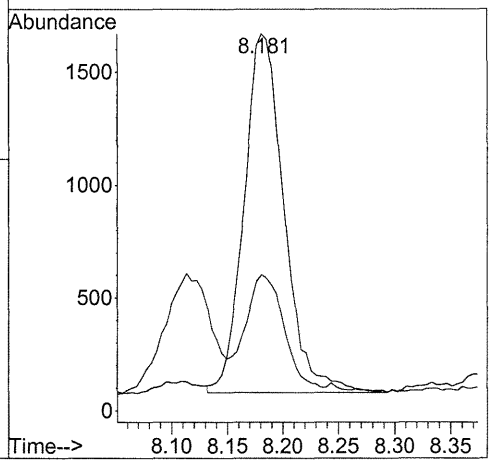


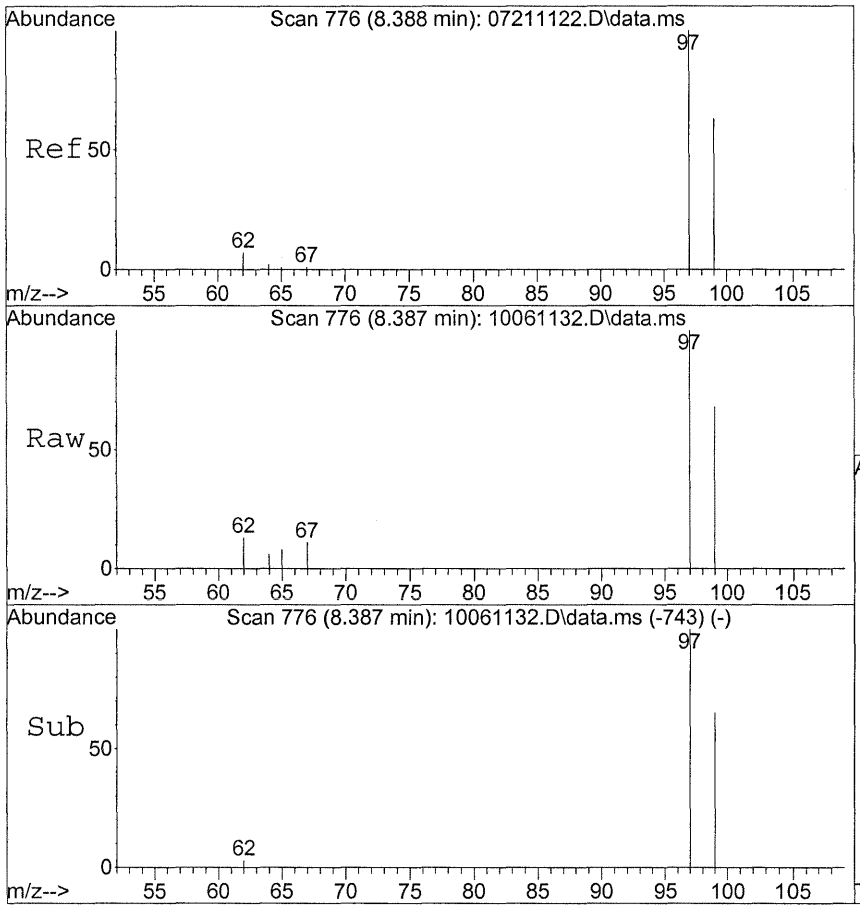


#18
1,2-Dichloroethane
Concen: 28.13 pg
RT: 8.18 min Scan# 730
Delta R.T. -0.005 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 62 Resp: 3988

Ion	Ratio	Lower	Upper
62	100		
64	30.5	10.3	50.3

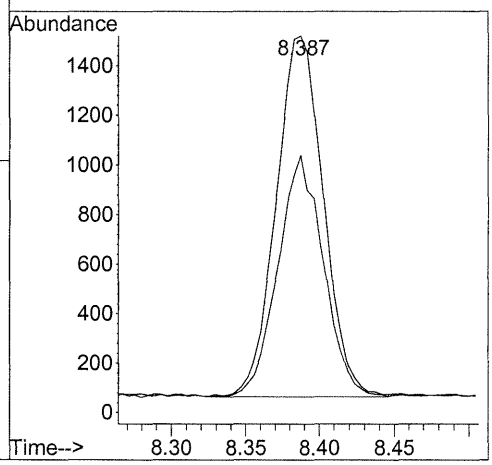


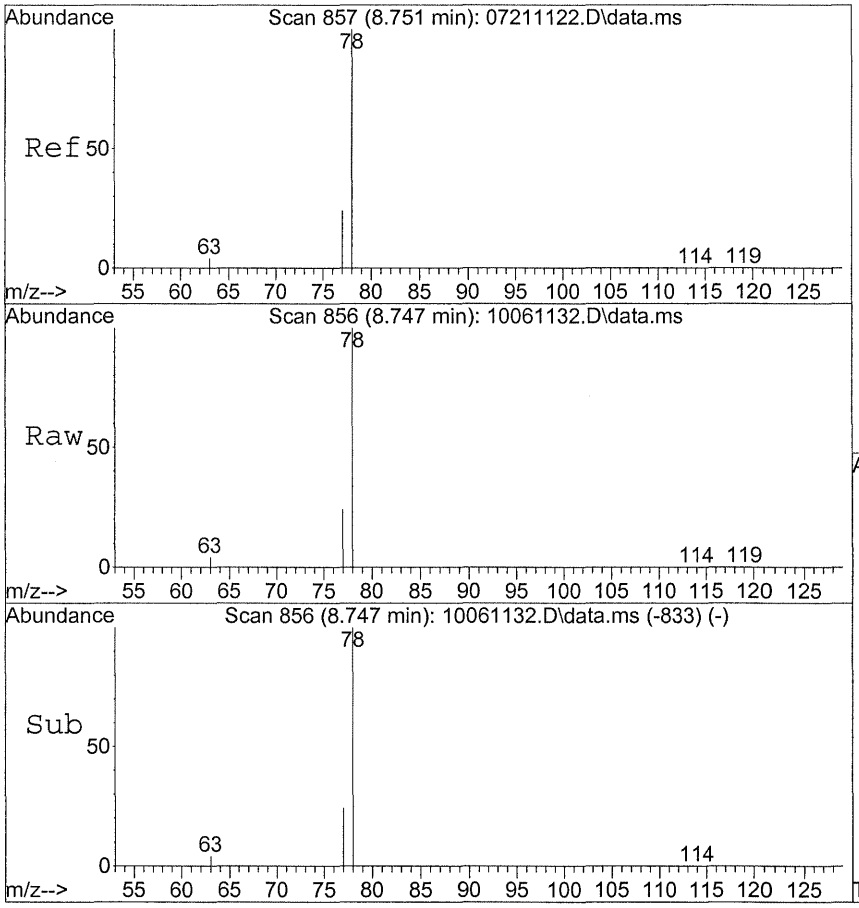


#19
1,1,1-Trichloroethane
Concen: 20.71 pg
RT: 8.39 min Scan# 776
Delta R.T. -0.001 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 97 Resp: 3244

Ion	Ratio	Lower	Upper
97	100		
99	64.5	45.2	85.2

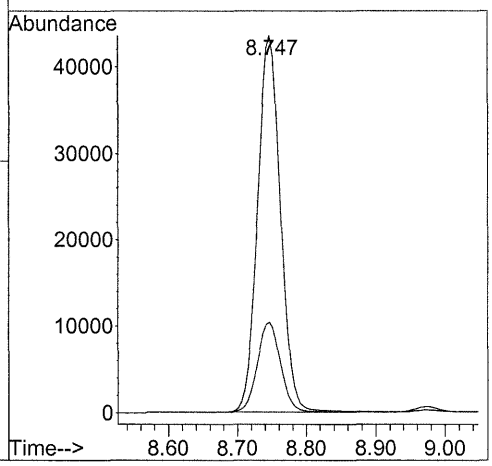


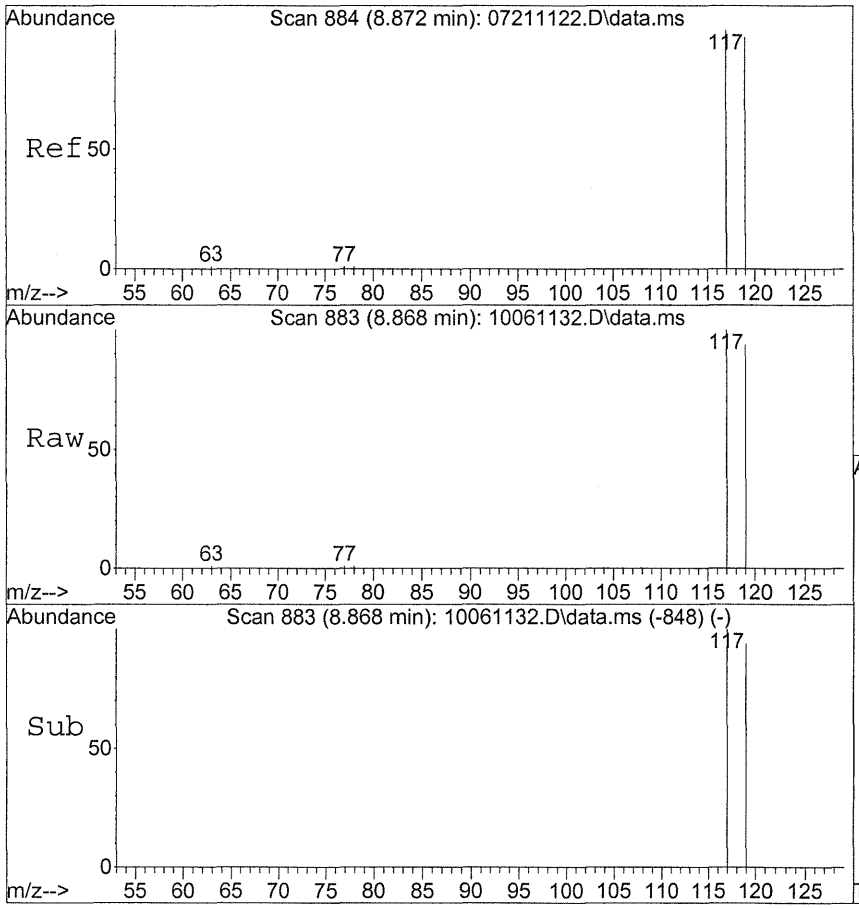


#20
Benzene
Concen: 244.00 pg
RT: 8.75 min Scan# 856
Delta R.T. -0.004 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 78 Resp: 100301

Ion	Ratio	Lower	Upper
78	100		
77	24.2	4.0	44.0

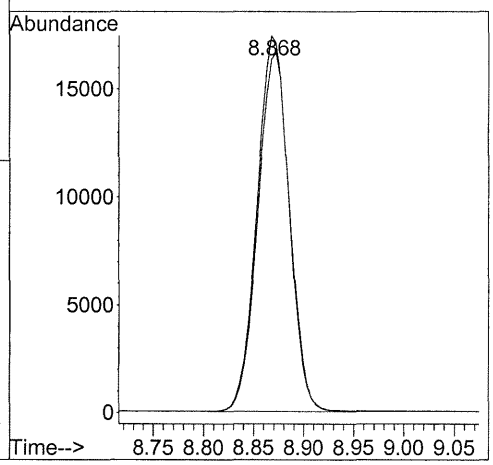


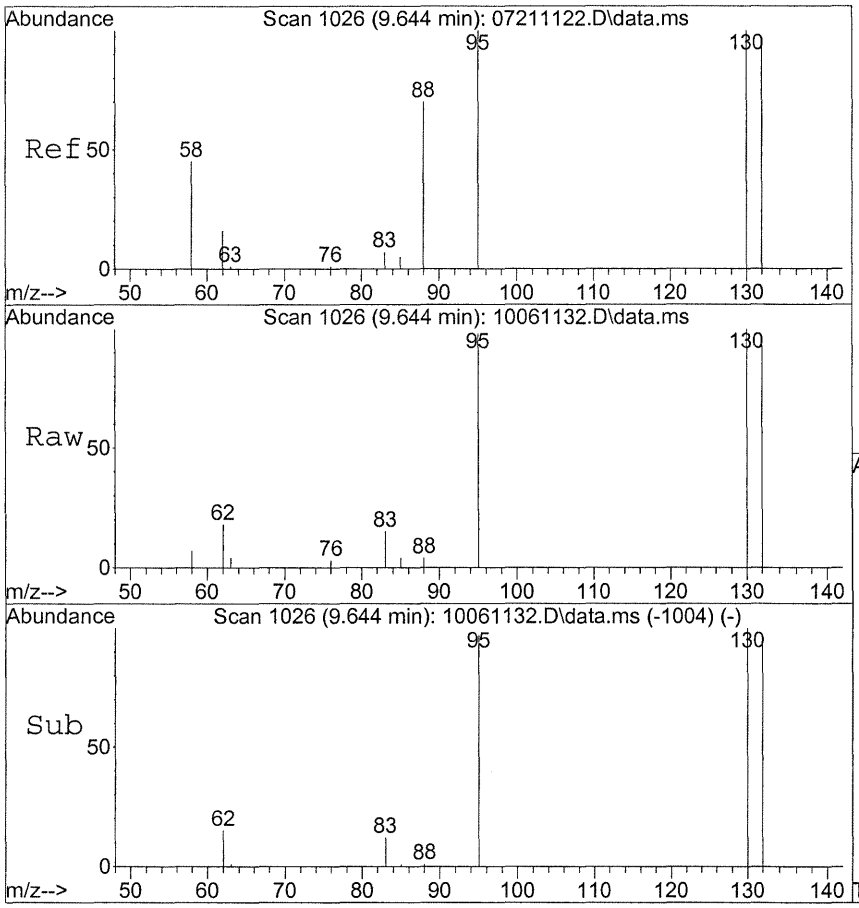


#21
Carbon Tetrachloride
Concen: 311.73 pg
RT: 8.87 min Scan# 883
Delta R.T. -0.004 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion:117 Resp: 38233

Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.5	117.5

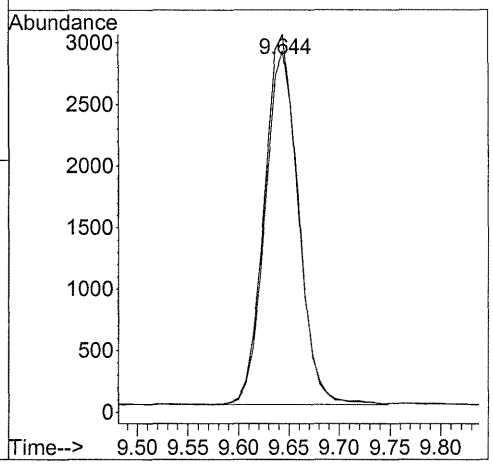


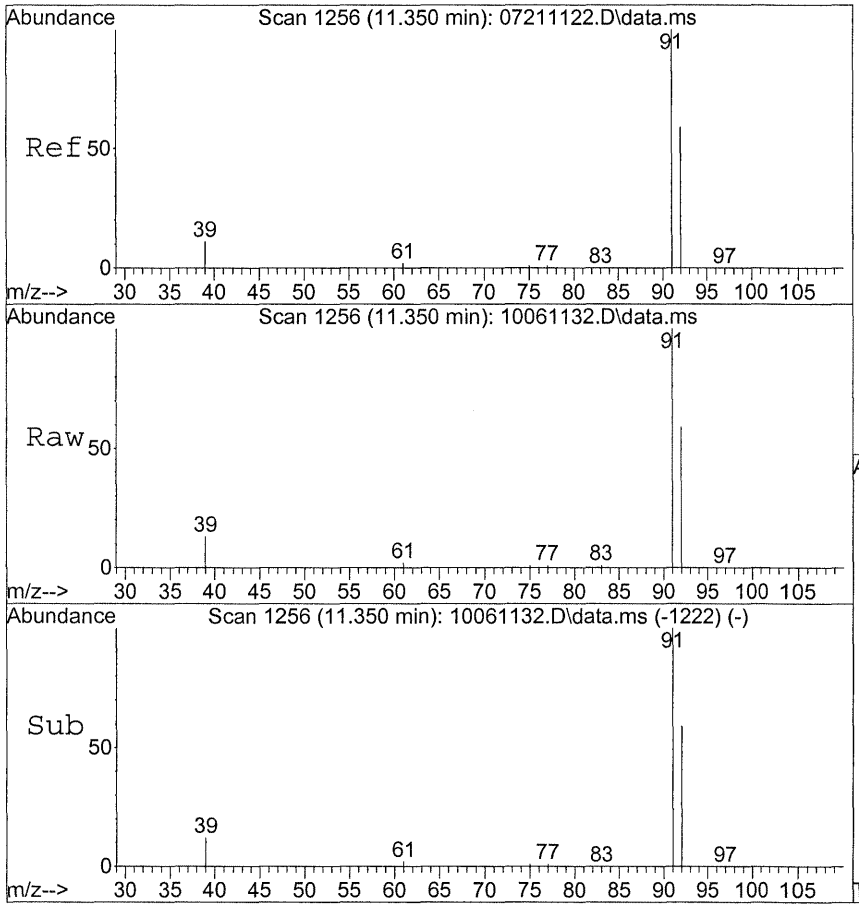


#25
Trichloroethene
Concen: 68.47 pg
RT: 9.64 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion:130 Resp: 6975

Ion	Ratio	Lower	Upper
130	100		
132	96.0	74.7	114.7

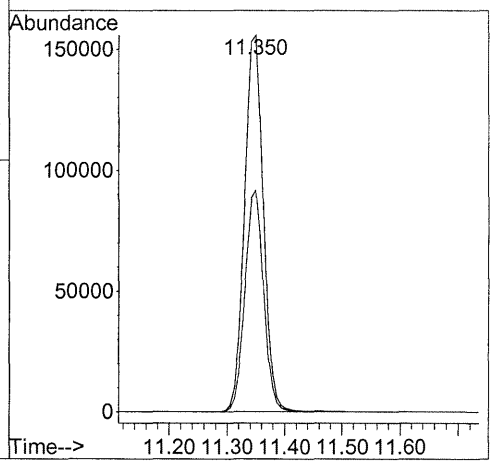


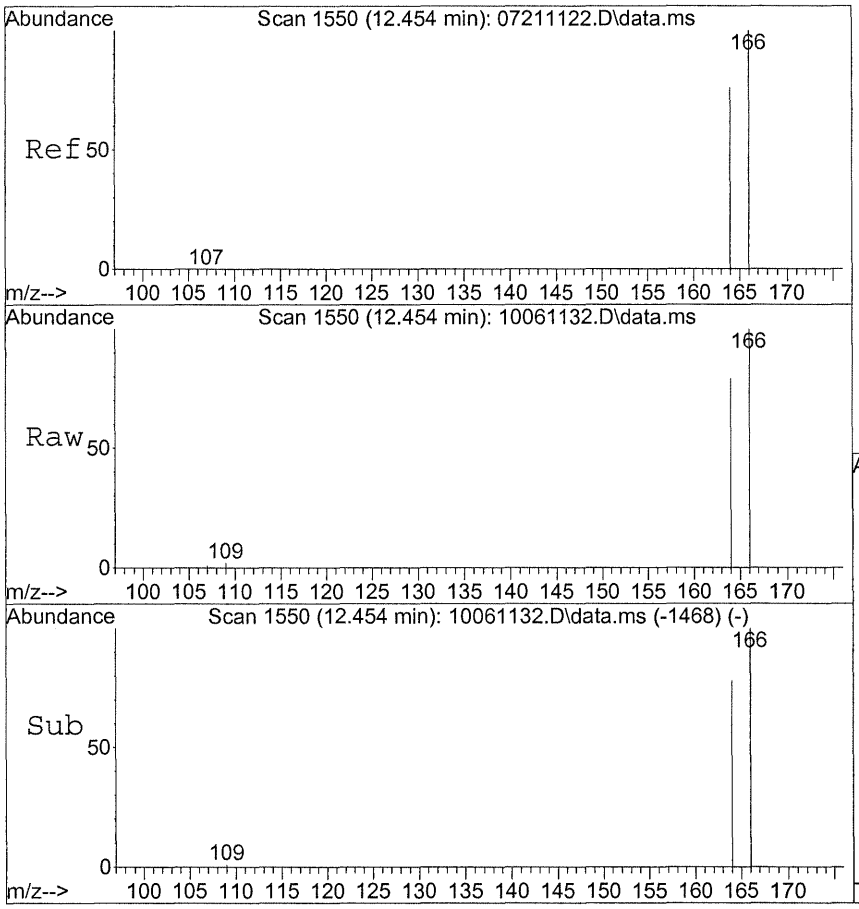


#31
Toluene
Concen: 914.61 pg
RT: 11.35 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 91 Resp: 357157

Ion	Ratio	Lower	Upper
91	100		
92	58.4	38.2	78.2

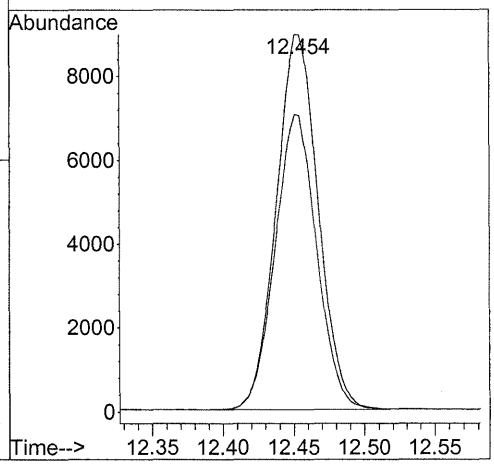


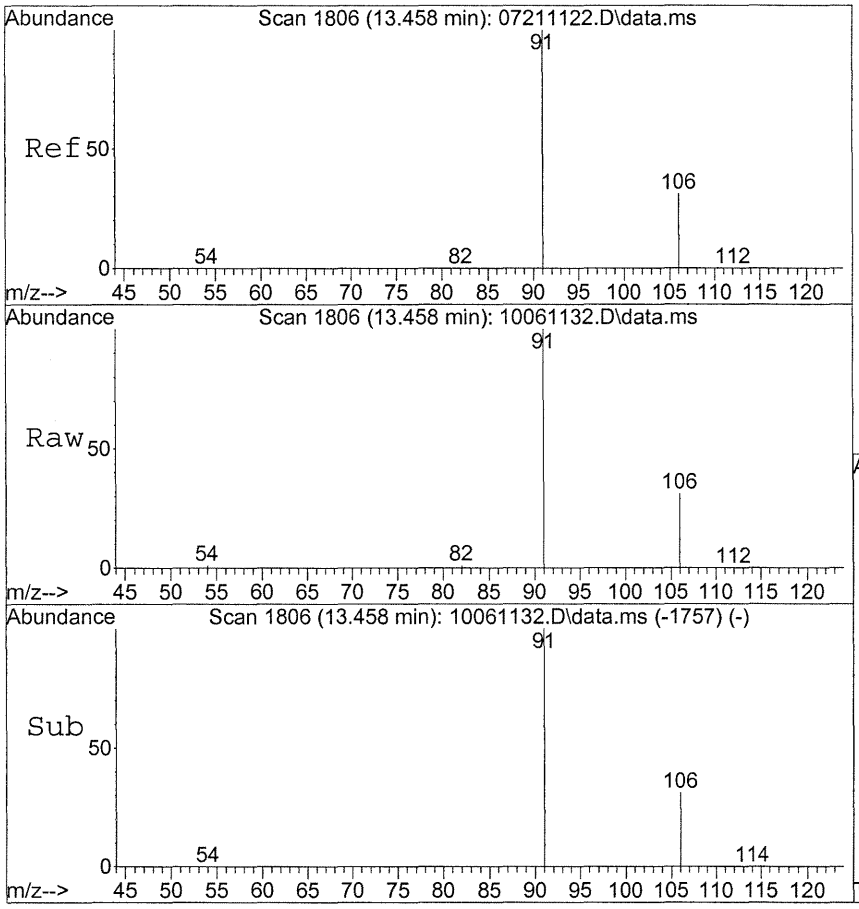


#33
Tetrachloroethene
Concen: 169.57 pg
RT: 12.45 min Scan# 1550
Delta R.T. 0.000 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion:166 Resp: 18531

Ion	Ratio	Lower	Upper
166	100		
164	78.2	58.2	98.2

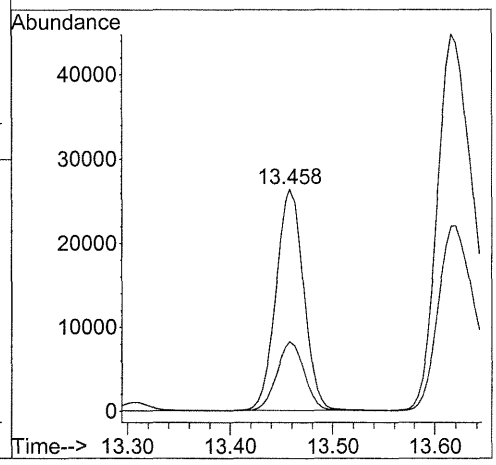


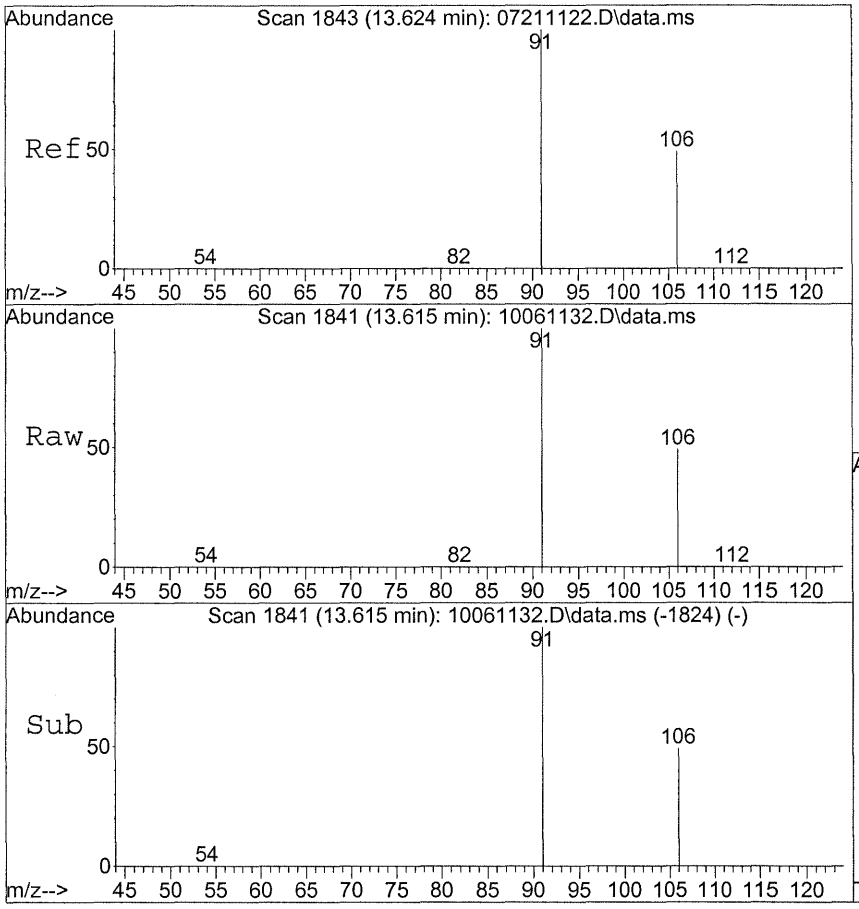


#36
Ethylbenzene
Concen: 111.95 pg
RT: 13.46 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 91 Resp: 49418

Ion	Ratio	Lower	Upper
91	100		
106	30.9	11.9	51.9

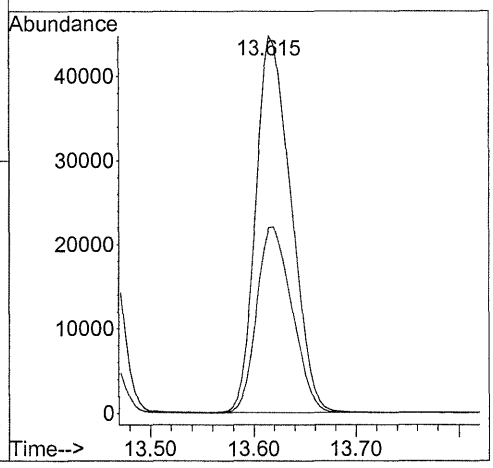


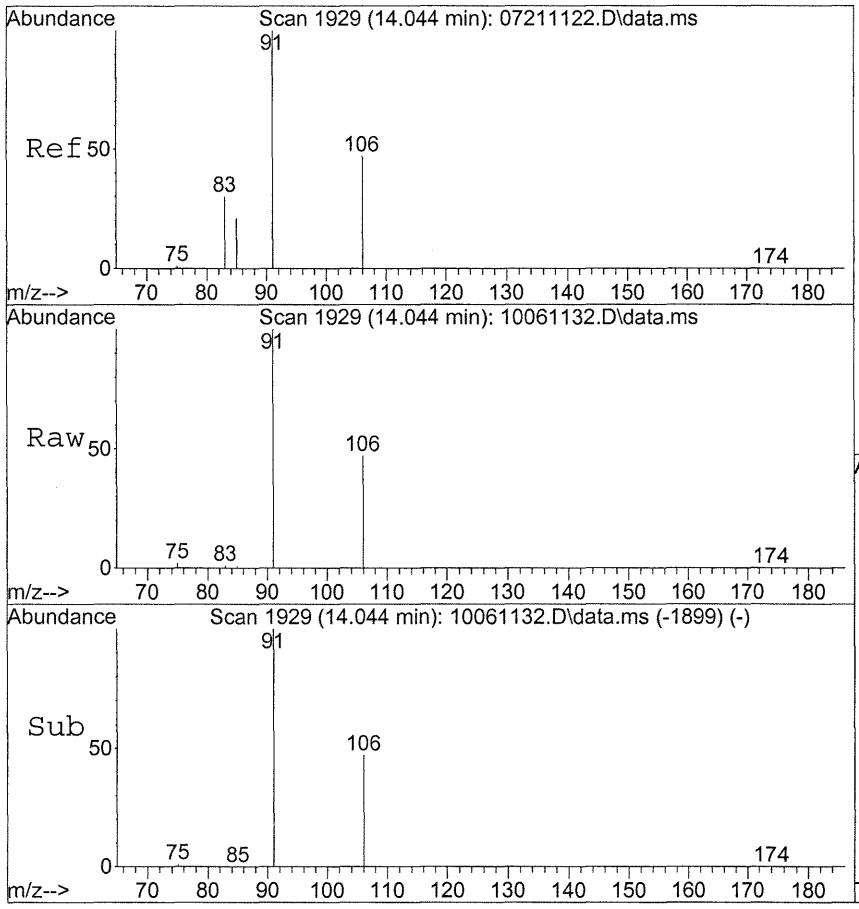


#37
m,p-Xylene
Concen: 297.55 pg
RT: 13.62 min Scan# 1841
Delta R.T. -0.009 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 91 Resp: 106940

Ion	Ratio	Lower	Upper
91	100		
106	49.6	30.3	70.3

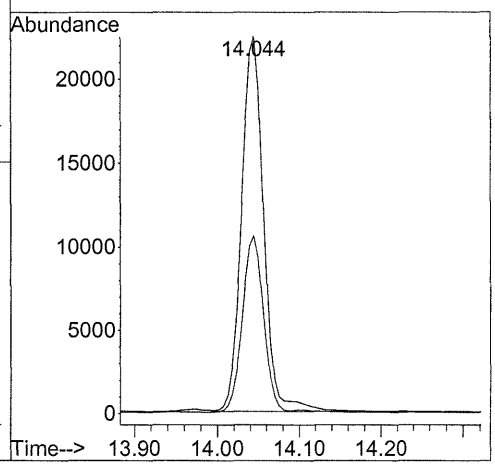


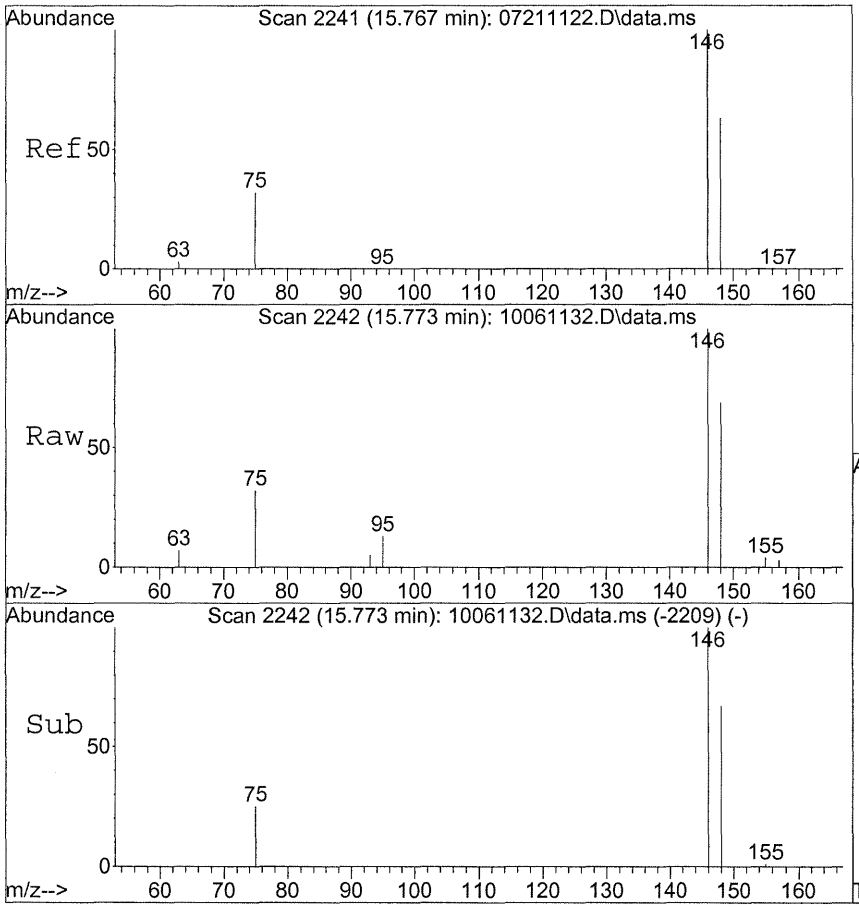


#38
o-Xylene
Concen: 115.66 pg
RT: 14.04 min Scan# 1929
Delta R.T. 0.000 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion: 91 Resp: 42407

Ion	Ratio	Lower	Upper
91	100		
106	45.2	28.4	68.4

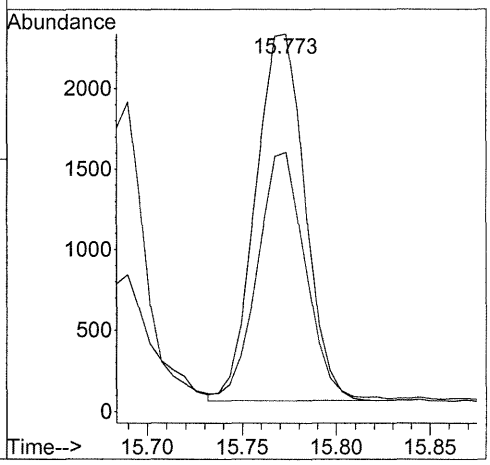


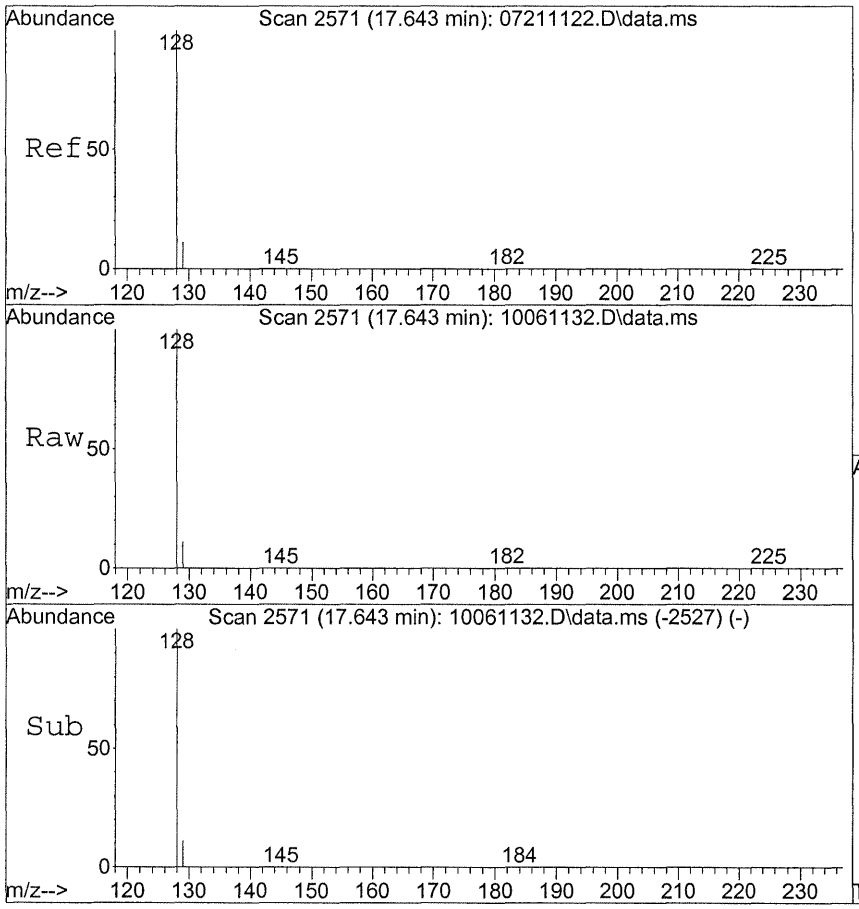


#42
1,4-Dichlorobenzene
Concen: 18.93 pg
RT: 15.77 min Scan# 2242
Delta R.T. 0.006 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion:146 Resp: 4142

Ion	Ratio	Lower	Upper
146	100		
148	64.5	42.9	82.9

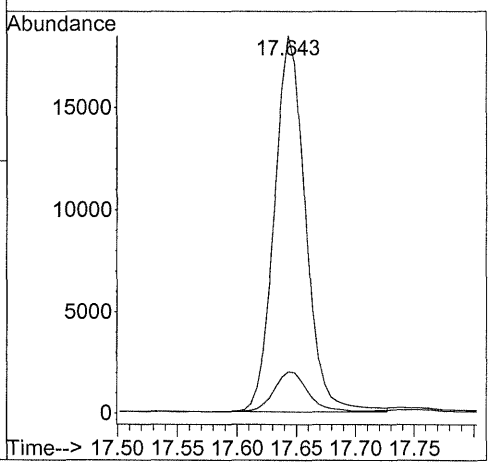




#45
Naphthalene
Concen: 62.89 pg
RT: 17.64 min Scan# 2571
Delta R.T. -0.000 min
Lab File: 10061132.D
Acq: 7 Oct 2011 6:44

Tgt Ion:128 Resp: 33839

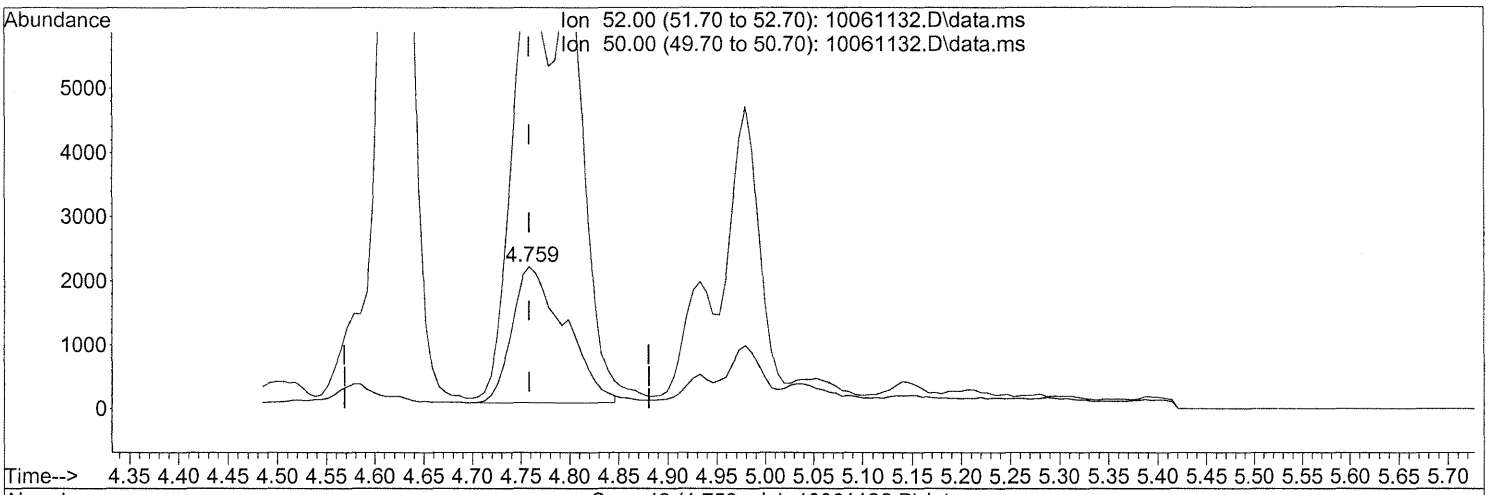
Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	30.9

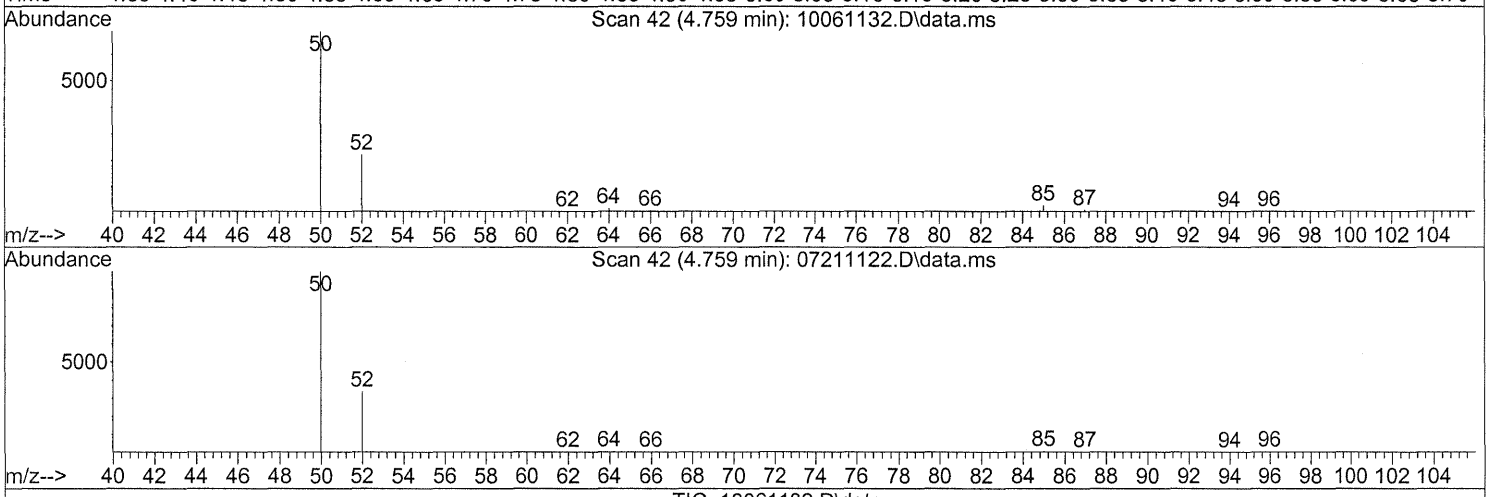


Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 08:22:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration





TIC: 10061132.D\data.ms

(3) Chloromethane (T)

4.759min (+0.000) 174.52pg

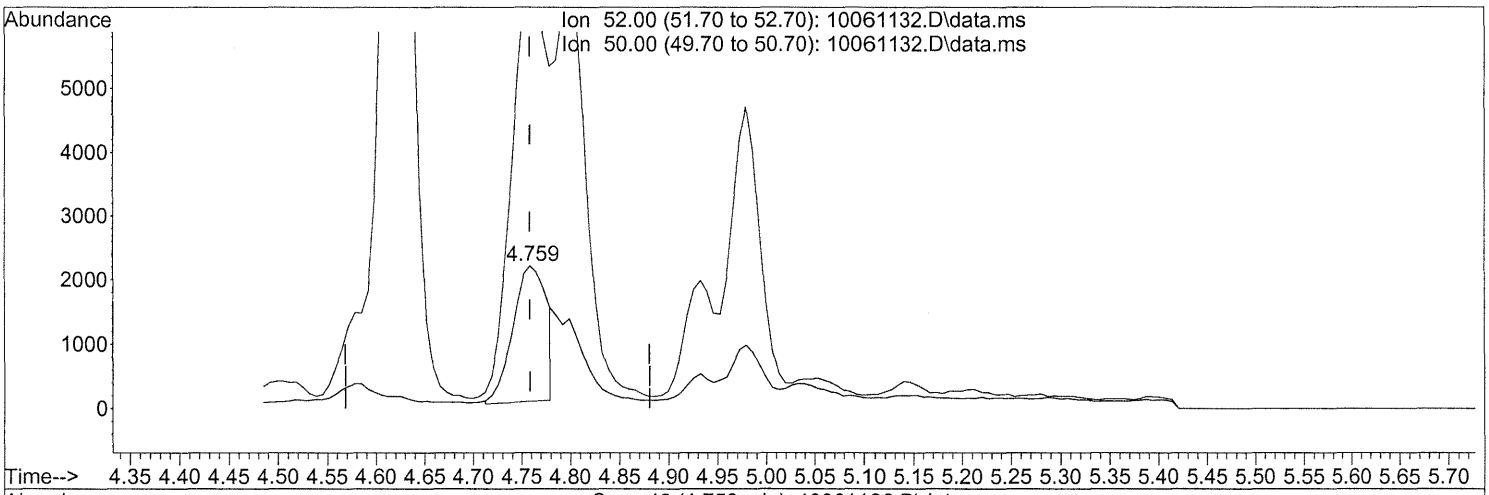
response 8034

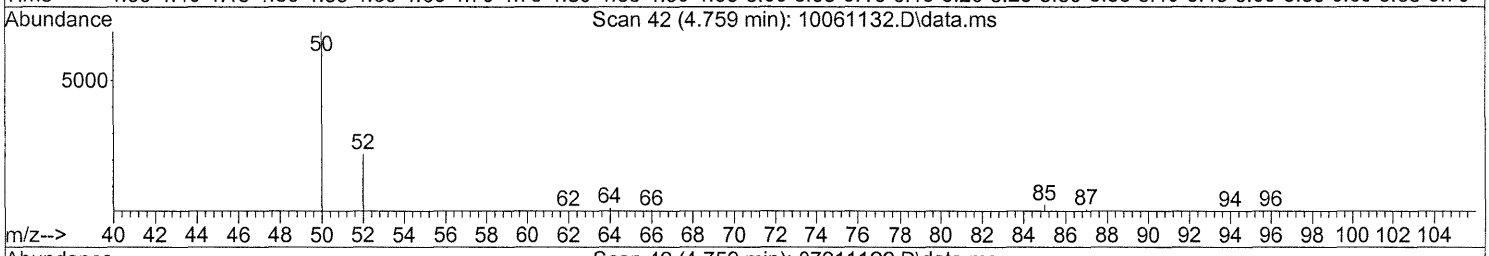
Ion	Exp%	Act%
52.00	100	100
50.00	305.30	209.25#
0.00	0.00	0.00
0.00	0.00	0.00

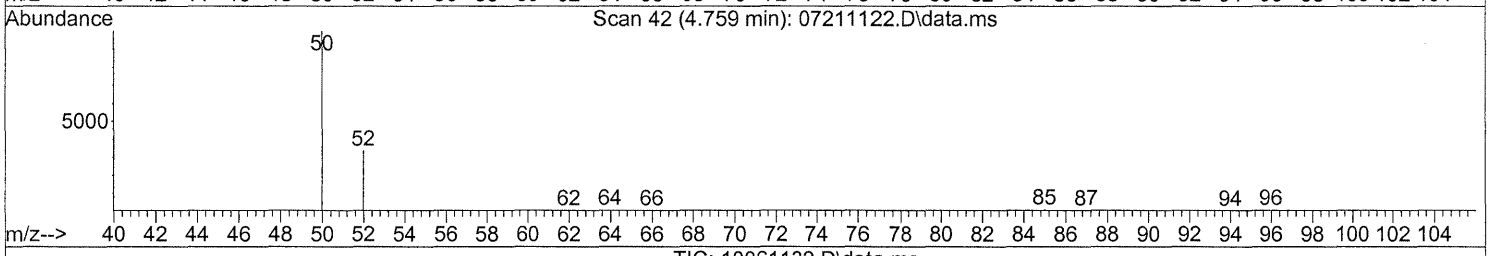
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 08:22:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061132.D\data.ms

(3) Chloromethane (T)

4.759min (+0.000) 112.26pg m

response 5168

Ion	Exp%	Act%
52.00	100	100
50.00	305.30	325.29
0.00	0.00	0.00
0.00	0.00	0.00

IPC

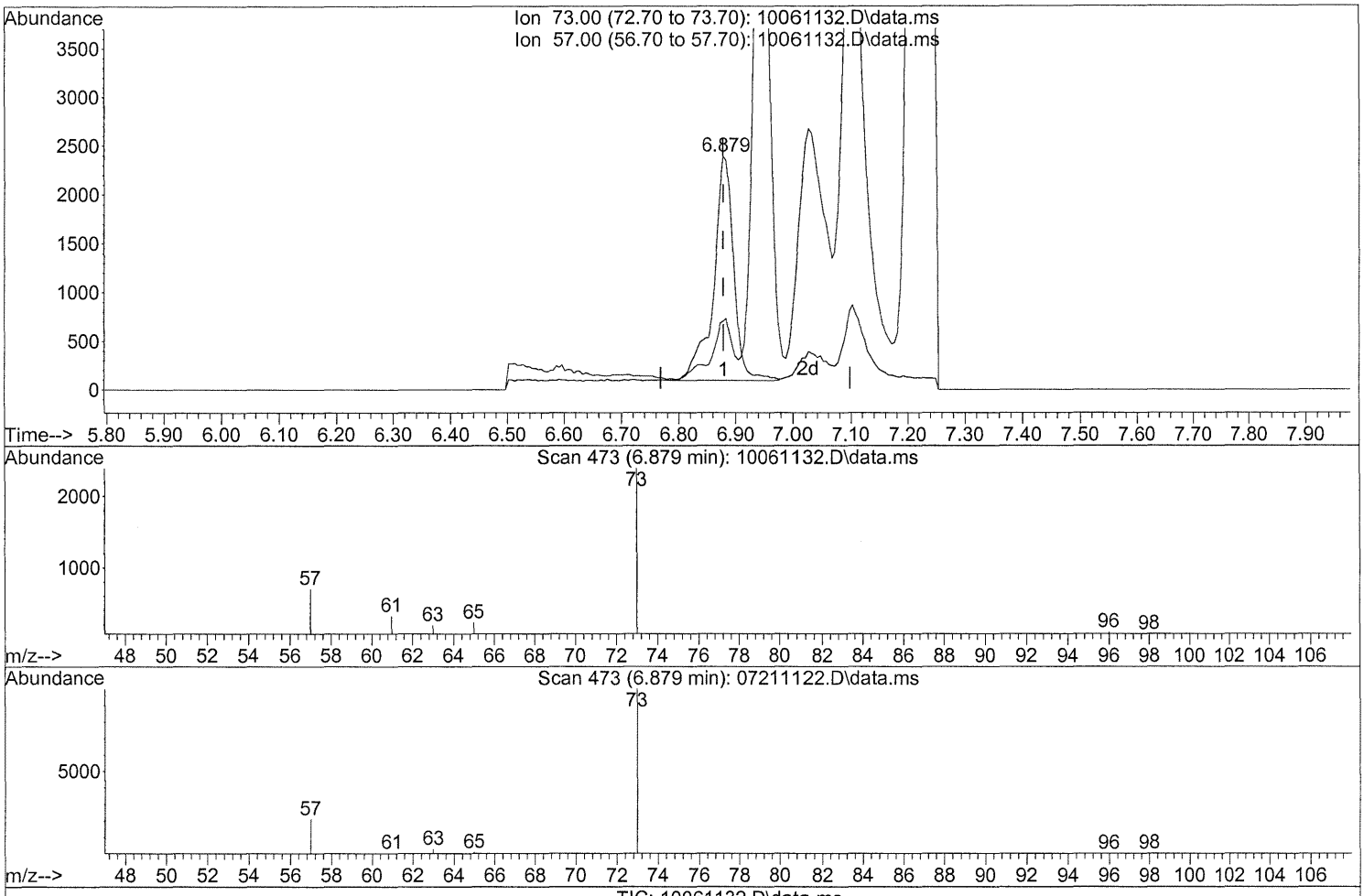
DA 10/7/11

LM 10/7/11

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 08:22:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061132.D\data.ms

(14) Methyl tert-Butyl Ether (T)

6.879min (-0.000) 18.58pg

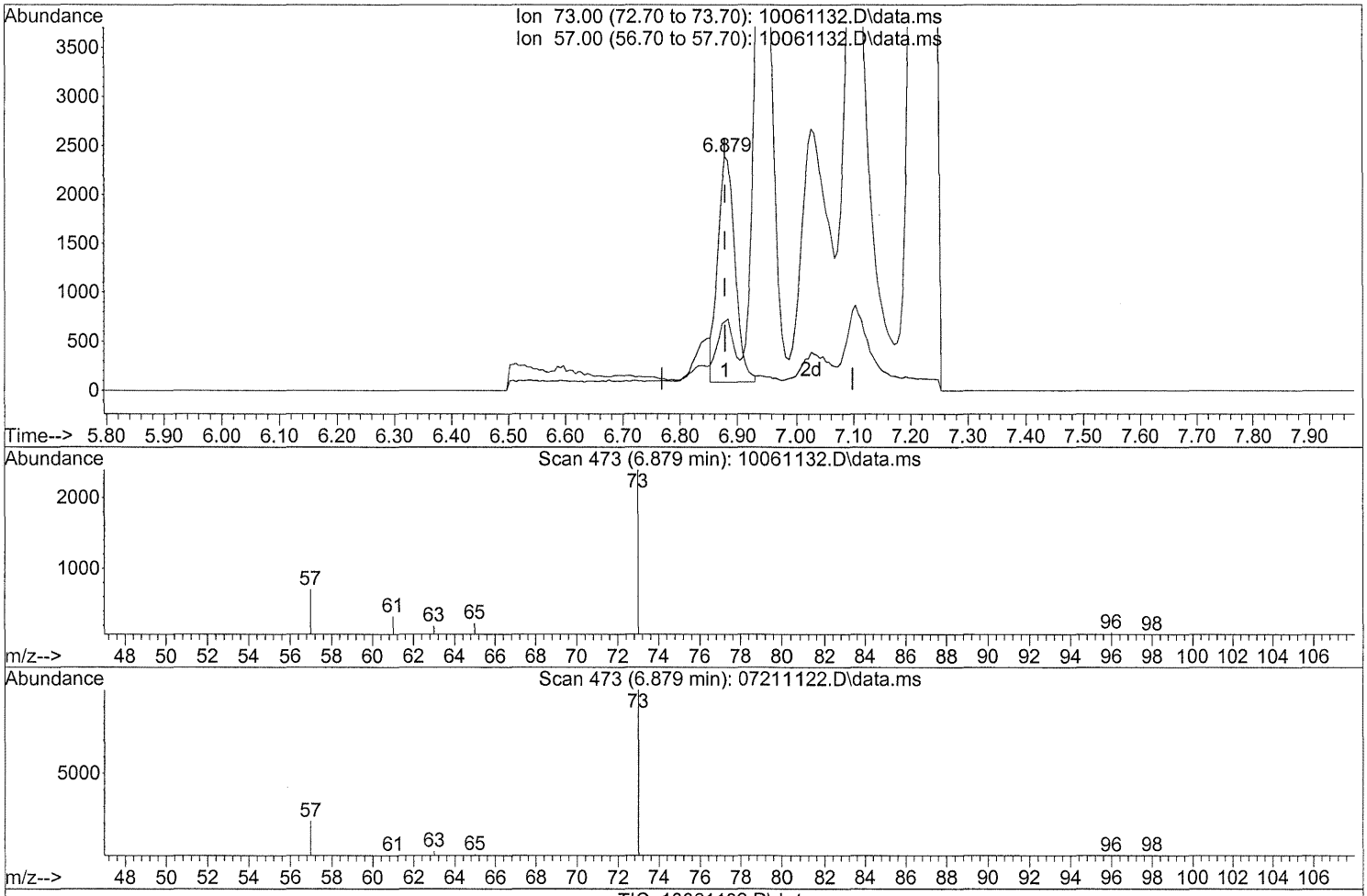
response 5727

Ion	Exp%	Act%
73.00	100	100
57.00	21.20	14.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 08:22:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061132.D\data.ms

(14) Methyl tert-Butyl Ether (T)

6.879min (-0.000) 15.66pg m

response 4829

Ion	Exp%	Act%
73.00	100	100
57.00	21.20	17.06
0.00	0.00	0.00
0.00	0.00	0.00

IPC

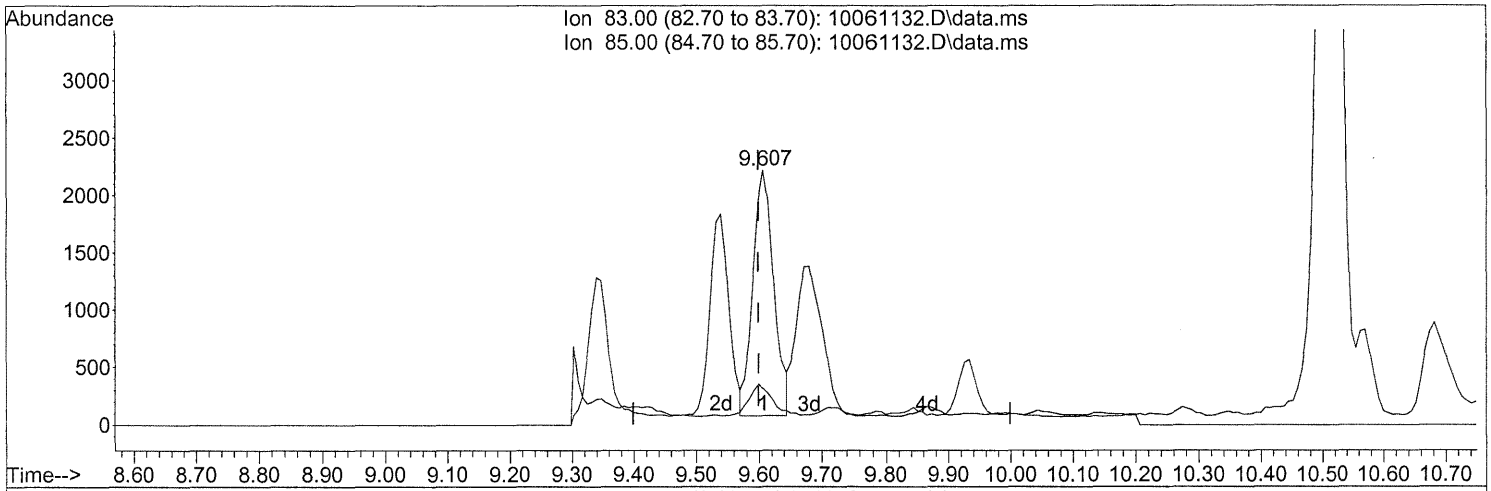
10/7/11

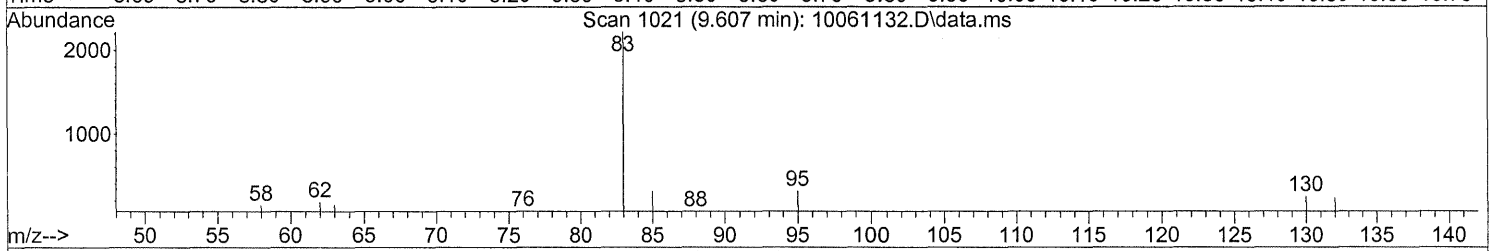
10/7/11

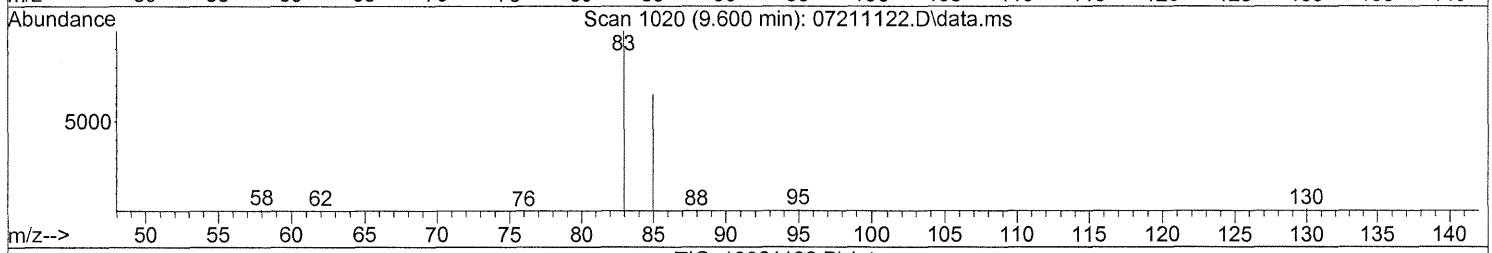
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 08:22:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061132.D\data.ms

(24) Bromodichloromethane (T)

9.607min (+0.007) 41.42pg

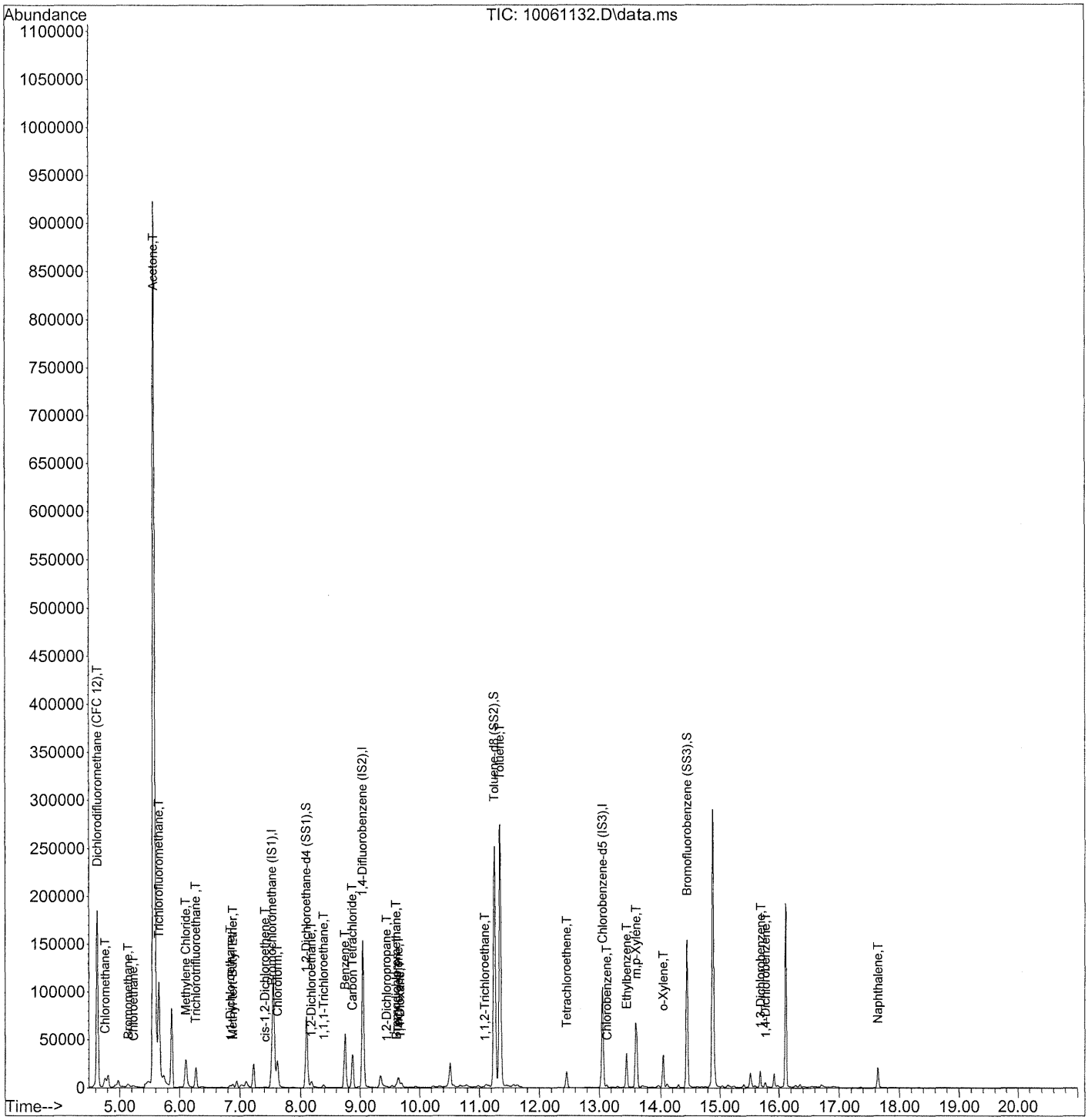
response 4943

Ion	Exp%	Act%
83.00	100	100
85.00	63.50	14.24#
0.00	0.00	0.00
0.00	0.00	0.00

FP

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 08:22:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 08:22:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	63577	1000.00	pg		-0.01
22) 1,4-Difluorobenzene (IS2)	9.04	114	289932	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	147208	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.10	65	119349	960.19	pg		0.00
Spiked Amount 1000.000			Recovery = 96.02%				
30) Toluene-d8 (SS2)	11.25	98	329294	1044.76	pg		0.00
Spiked Amount 1000.000			Recovery = 104.48%				
40) Bromofluorobenzene (SS3)	14.45	174	112221	957.47	pg		0.00
Spiked Amount 1000.000			Recovery = 95.75%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.63	85	234868	1258.18	pg		98
3) Chloromethane	4.76	52	8034	174.52	pg	#	52
4) Vinyl Chloride	4.89	62	253	N.D.			
5) Bromomethane	5.14	94	3640	49.35	pg		96
6) Chloroethane	5.23	64	2087	24.31	pg		71
7) Acetone	5.57	58	489815	6682.97	pg	#	79
8) Trichlorofluoromethane	5.65	101	116863	668.62	pg		98
9) 1,1-Dichloroethene	6.04	96	320	N.D.			
10) Methylene Chloride	6.10	84	25555	256.95	pg		92
11) Trichlorotrifluoroethane	6.27	151	22573	280.78	pg		100
12) trans-1,2-Dichloroethene	6.70	96	295	N.D.			
13) 1,1-Dichloroethane	6.84	63	876	5.84	pg	#	31
14) Methyl tert-Butyl Ether	6.88	73	5727	18.58	pg		86
15) cis-1,2-Dichloroethene	7.41	96	609	6.11	pg	#	26
16) Chloroform	7.61	83	33941	192.14	pg		98
18) 1,2-Dichloroethane	8.18	62	3988	28.13	pg		100
19) 1,1,1-Trichloroethane	8.39	97	3244	20.71	pg		99
20) Benzene	8.75	78	100301	244.00	pg		100
21) Carbon Tetrachloride	8.87	117	38233	311.73	pg		99
23) 1,2-Dichloropropane	9.44	63	656	7.20	pg		90
24) Bromodichloromethane	9.61	83	4943	41.42	pg	#	37
25) Trichloroethene	9.64	130	6975	68.47	pg		99
26) 1,4-Dioxane	9.67	88	555	7.22	pg	#	1
27) cis-1,3-Dichloropropene	10.44	75	591	N.D.			
28) trans-1,3-Dichloropropene	10.93	75	509	N.D.			
29) 1,1,2-Trichloroethane	11.09	83	444	6.12	pg	#	15
31) Toluene	11.35	91	357157	914.61	pg		100
32) 1,2-Dibromoethane	11.97	107	50	N.D.			
33) Tetrachloroethene	12.45	166	18531	169.57	pg		100
35) Chlorobenzene	13.13	112	2134	8.51	pg		65

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061132.D
Acq On : 7 Oct 2011 6:44
Operator : KR
Sample : P1103662-006 (1000mL)
Misc :
ALS Vial : 3 Sample Multiplier: 1

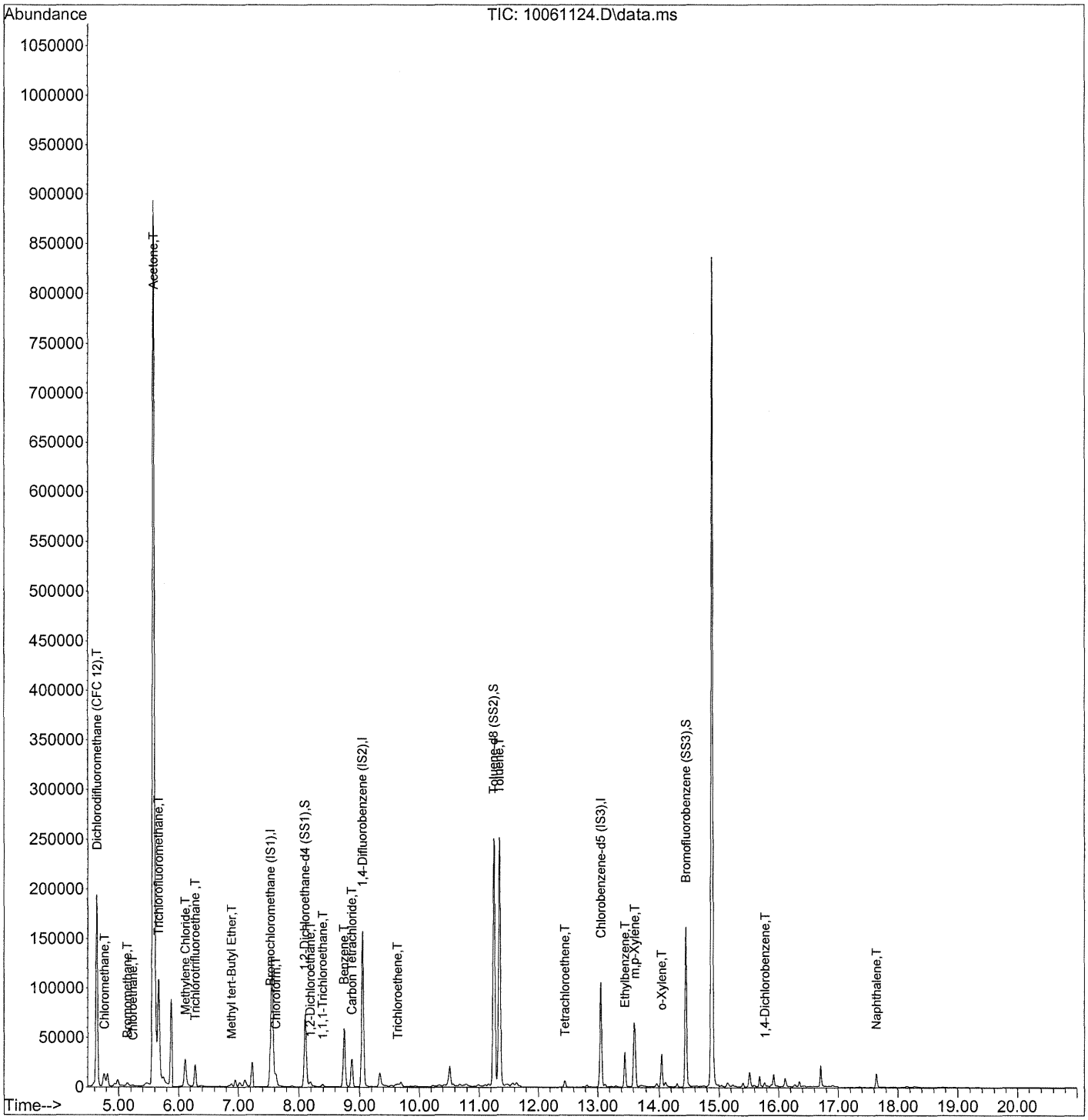
Quant Time: Oct 07 08:22:01 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Ethylbenzene	13.46	91	49418	111.95	pg		98
37) m,p-Xylene	13.62	91	106940	297.55	pg		99
38) o-Xylene	14.04	91	42407	115.66	pg		95
39) 1,1,2,2-Tetrachloroethane	14.03	83	212	N.D.			
41) 1,3-Dichlorobenzene	15.69	146	1354	6.22	pg	#	1
42) 1,4-Dichlorobenzene	15.77	146	4142	18.93	pg		98
43) 1,2-Dichlorobenzene	16.06	146	306	N.D.			
44) 1,2,4-Trichlorobenzene	17.55	182	258	N.D.			
45) Naphthalene	17.64	128	33839	62.89	pg		98
46) Hexachlorobutadiene	17.97	225	57	N.D.			

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

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 20:46:14 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

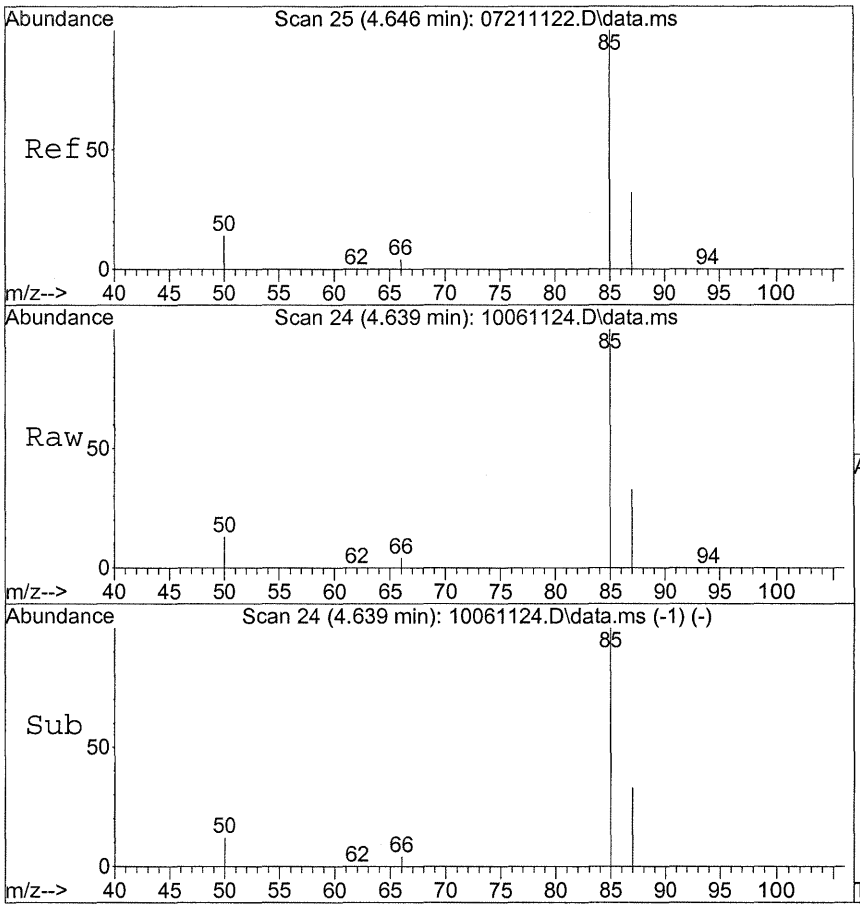
Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 20:46:14 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	63239	1000.00 pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	298273	1000.00 pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	149457	1000.00 pg	0.00
System Monitoring Compounds					
17) 1,2-Dichloroethane-d4 ...	8.10	65	121568	983.27 pg	0.00
Spiked Amount 1000.000				Recovery = 98.33%	
30) Toluene-d8 (SS2)	11.25	98	330876	1020.43 pg	0.00
Spiked Amount 1000.000				Recovery = 102.04%	
40) Bromofluorobenzene (SS3)	14.45	174	115806	973.19 pg	0.00
Spiked Amount 1000.000				Recovery = 97.32%	
Target Compounds					Qvalue
2) Dichlorodifluoromethan...	4.64	85	247330	1332.02 pg	98
3) Chloromethane	4.77	52	8255m	180.28 pg	
5) Bromomethane	5.14	94	3691	50.31 pg	100
6) Chloroethane	5.23	64	1255m	14.69 pg	
7) Acetone	5.58	58	454242	6230.74 pg	# 77
8) Trichlorofluoromethane	5.66	101	115241	662.86 pg	98
10) Methylene Chloride	6.12	84	24009	242.70 pg	92
11) Trichlorotrifluoroethane	6.28	151	23998	300.10 pg	99
14) Methyl tert-Butyl Ether	6.89	73	4598	14.99 pg	85
16) Chloroform	7.62	83	12600	71.71 pg	96
18) 1,2-Dichloroethane	8.19	62	3608	25.59 pg	91
19) 1,1,1-Trichloroethane	8.39	97	2806	18.01 pg	98
20) Benzene	8.75	78	104999	256.80 pg	100
21) Carbon Tetrachloride	8.88	117	30726	251.86 pg	99
25) Trichloroethene	9.64	130	1452	13.85 pg	97
31) Toluene	11.35	91	315143	784.45 pg	100
33) Tetrachloroethene	12.45	166	7189	63.95 pg	99
36) Ethylbenzene	13.46	91	49011	109.35 pg	99
37) m,p-Xylene	13.62	91	102082	279.76 pg	99
38) o-Xylene	14.04	91	39907	107.20 pg	96
42) 1,4-Dichlorobenzene	15.77	146	3429	15.44 pg	96
45) Naphthalene	17.64	128	21210	38.83 pg	96

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

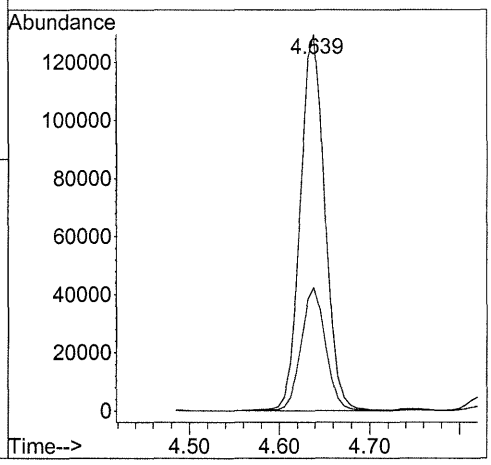
10/7/11

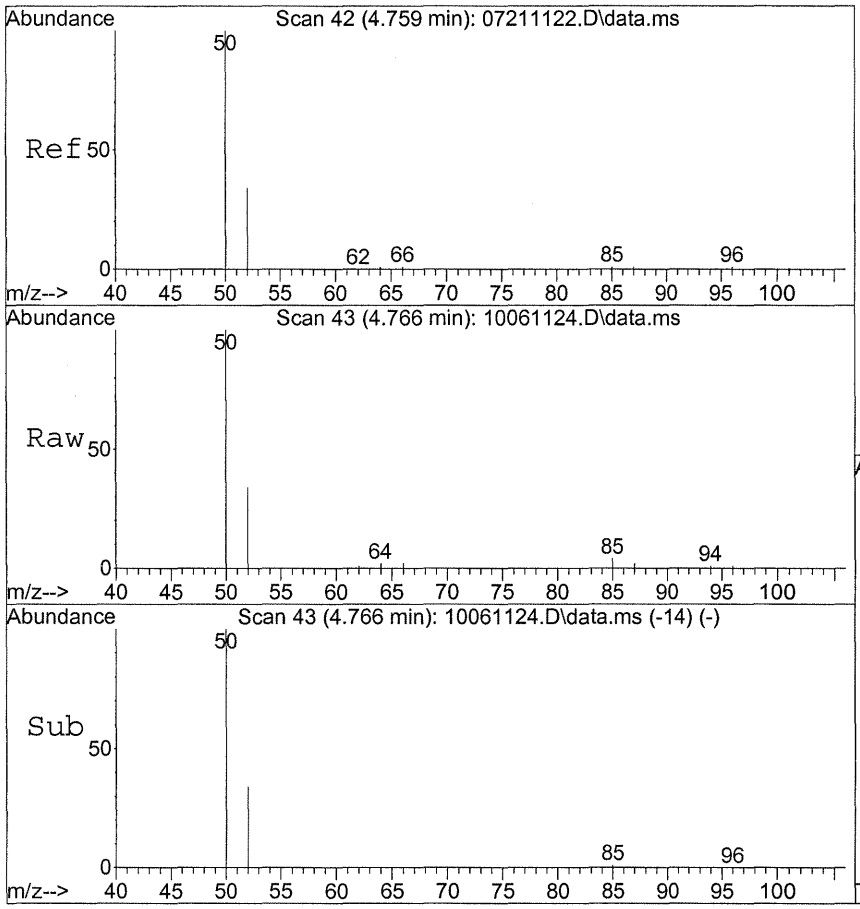


#2
Dichlorodifluoromethane (CFC
Concen: 1332.02 pg
RT: 4.64 min Scan# 24
Delta R.T. -0.007 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 85 Resp: 247330

Ion	Ratio	Lower	Upper
85	100		
87	32.4	13.3	53.3

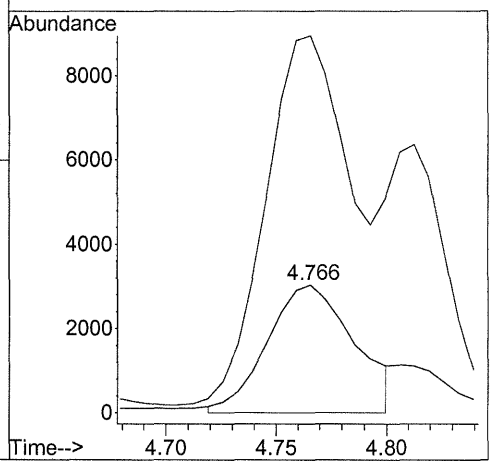


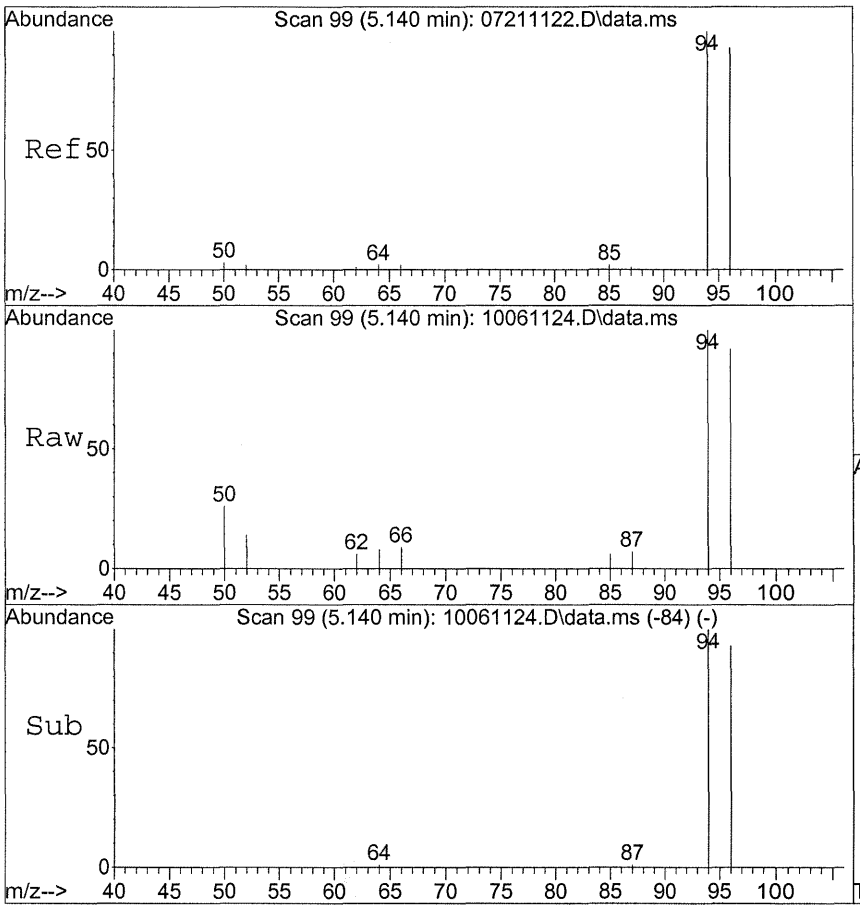


#3
Chloromethane
Concen: 180.28 pg m
RT: 4.77 min Scan# 43
Delta R.T. 0.007 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 52 Resp: 8255

Ion	Ratio	Lower	Upper
52	100		
50	282.2	285.3	325.3#

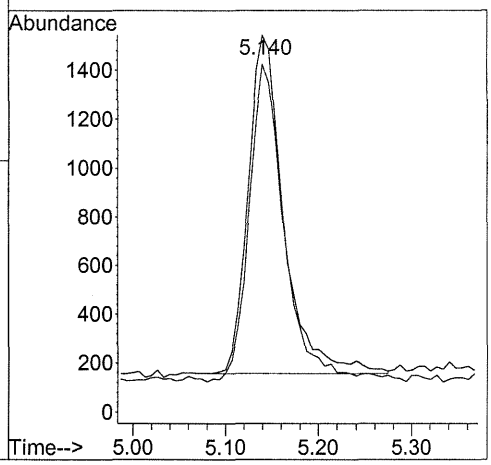


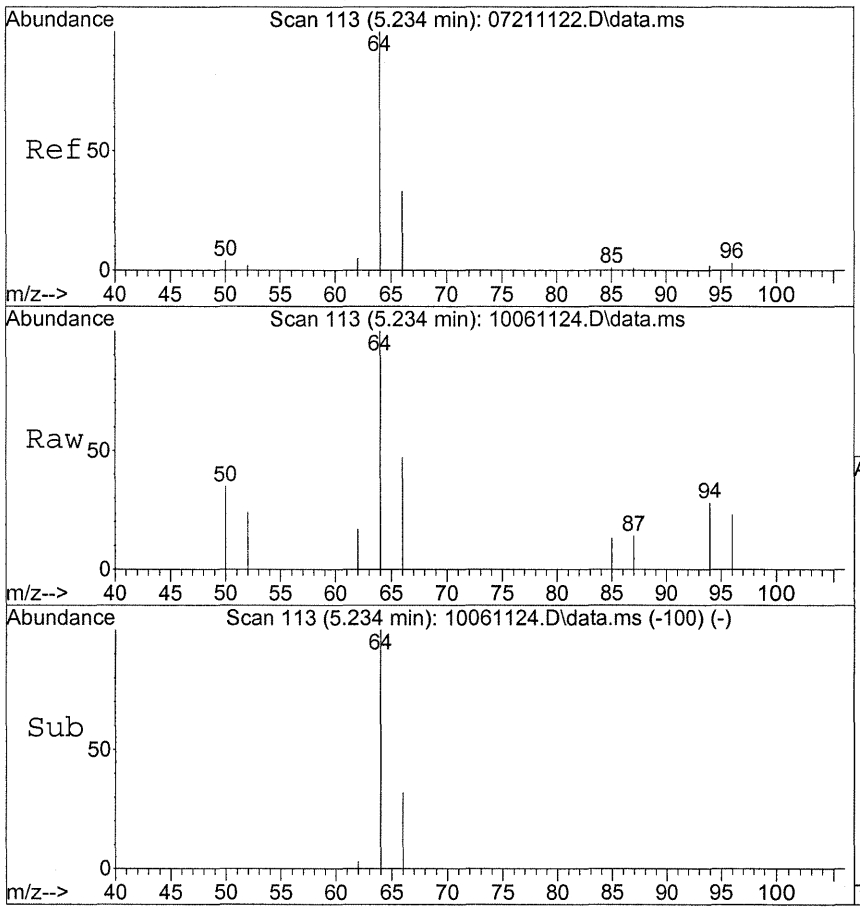


#5
Bromomethane
Concen: 50.31 pg
RT: 5.14 min Scan# 99
Delta R.T. 0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 94 Resp: 3691

Ion	Ratio	Lower	Upper
94	100		
96	92.6	74.2	111.4

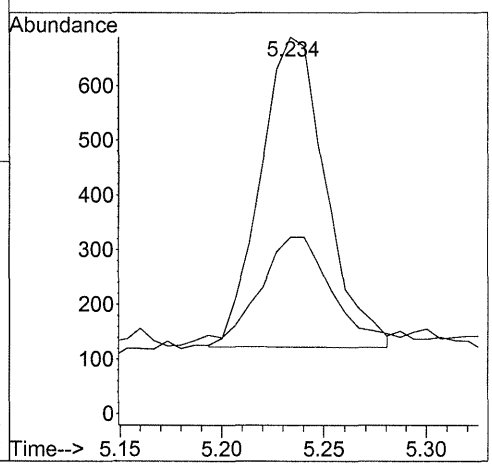


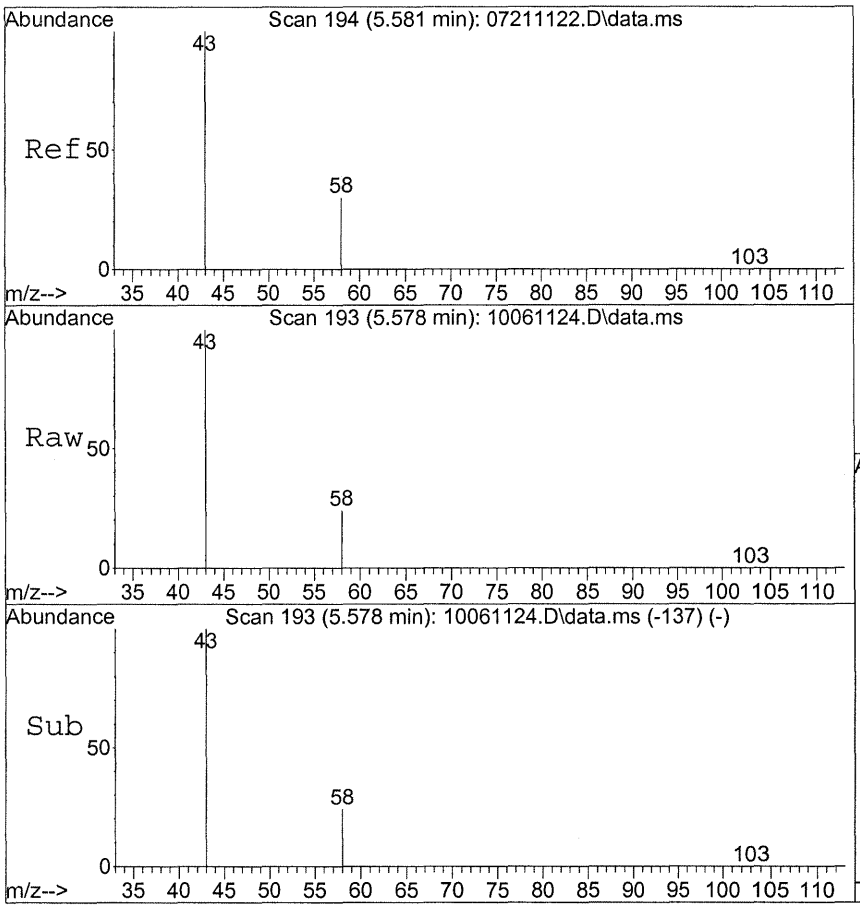


#6
Chloroethane
Concen: 14.69 pg m
RT: 5.23 min Scan# 113
Delta R.T. -0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 64 Resp: 1255

Ion	Ratio	Lower	Upper
64	100		
66	33.1	12.0	52.0

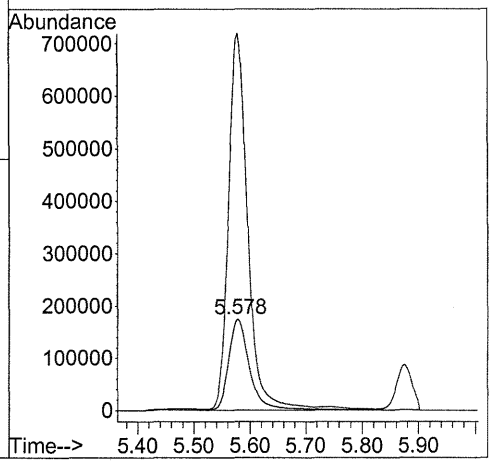


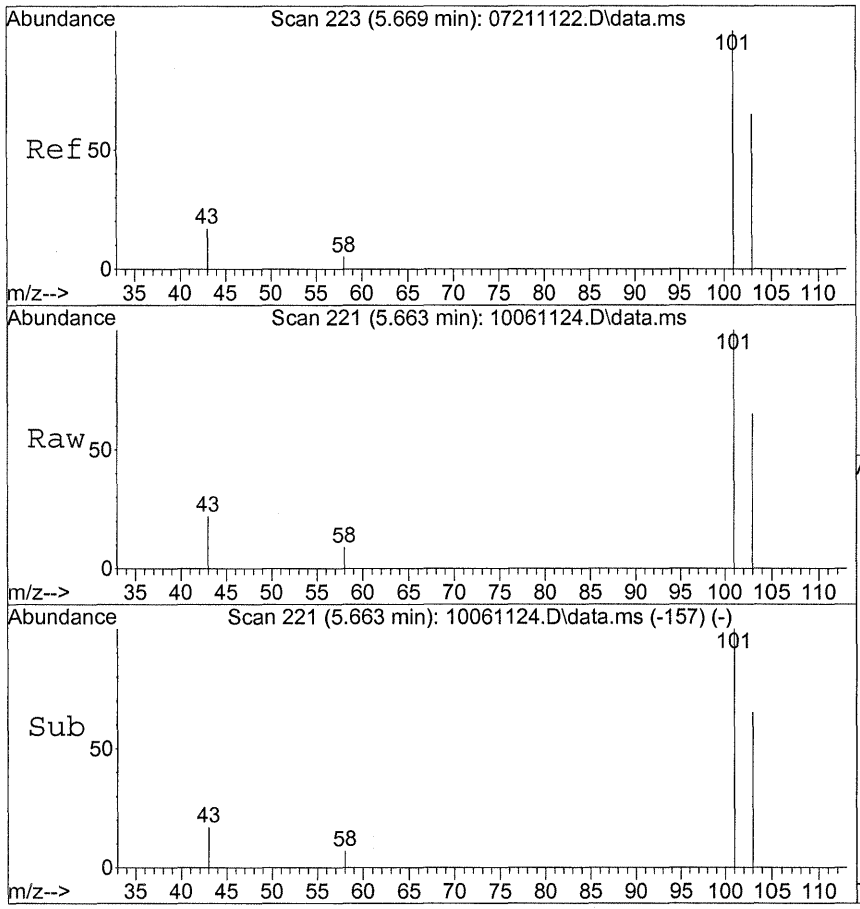


#7
Acetone
Concen: 6230.74 pg
RT: 5.58 min Scan# 193
Delta R.T. -0.003 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 58 Resp: 454242

Ion	Ratio	Lower	Upper
58	100		
43	374.2	307.2	347.2#

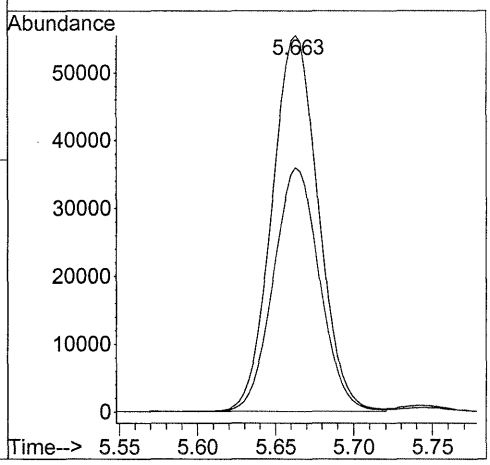


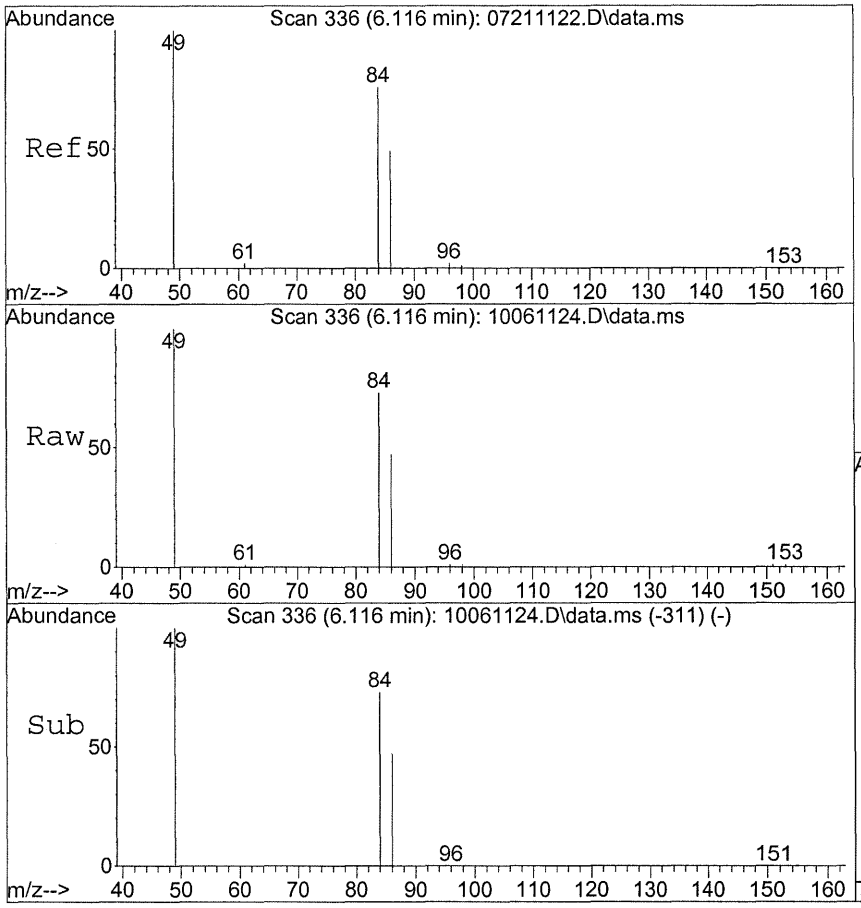


#8
Trichlorofluoromethane
Concen: 662.86 pg
RT: 5.66 min Scan# 221
Delta R.T. -0.006 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion:101 Resp: 115241

Ion	Ratio	Lower	Upper
101	100		
103	64.5	50.6	75.8

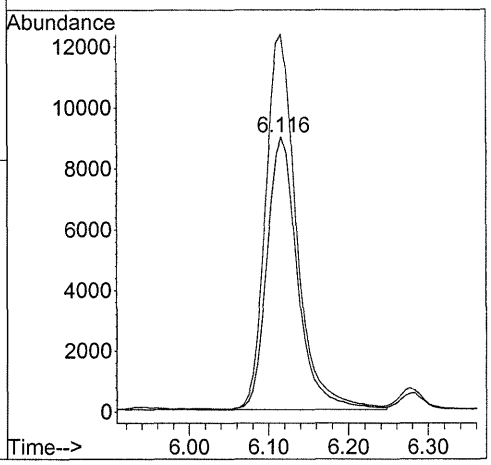


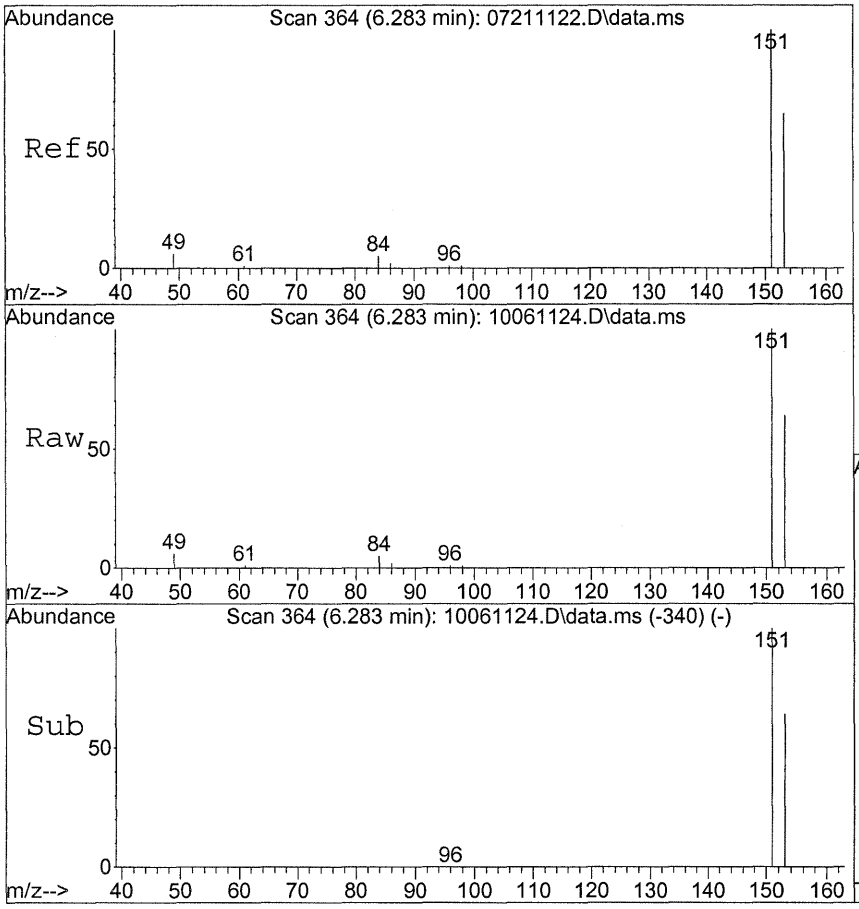


#10
Methylene Chloride
Concen: 242.70 pg
RT: 6.12 min Scan# 336
Delta R.T. 0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 84 Resp: 24009

Ion	Ratio	Lower	Upper
84	100		
49	137.7	107.9	147.9

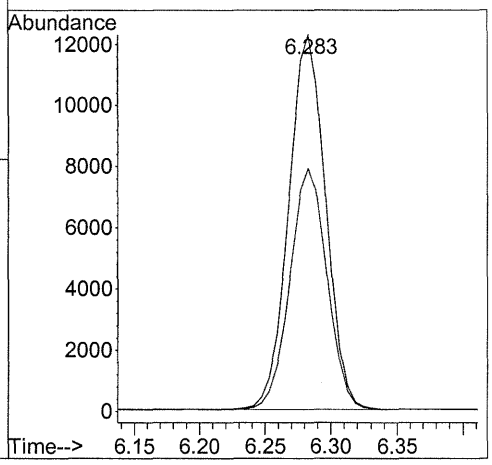


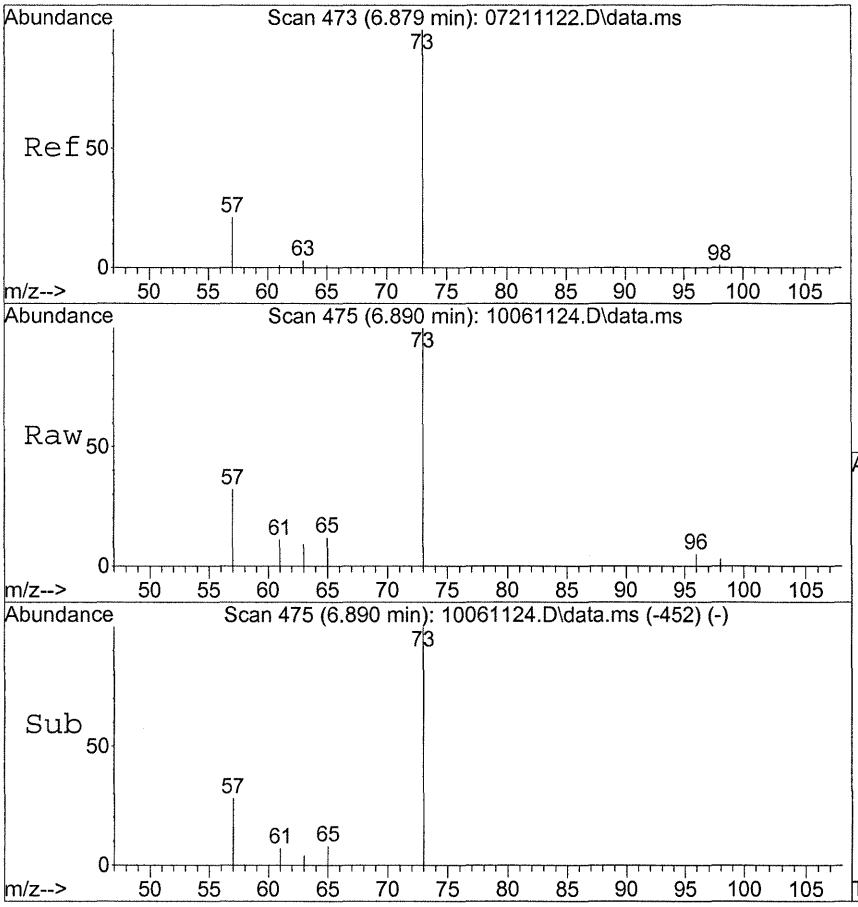


#11
Trichlorotrifluoroethane
Concen: 300.10 pg
RT: 6.28 min Scan# 364
Delta R.T. -0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion:151 Resp: 23998

Ion	Ratio	Lower	Upper
151	100		
153	64.6	44.1	84.1

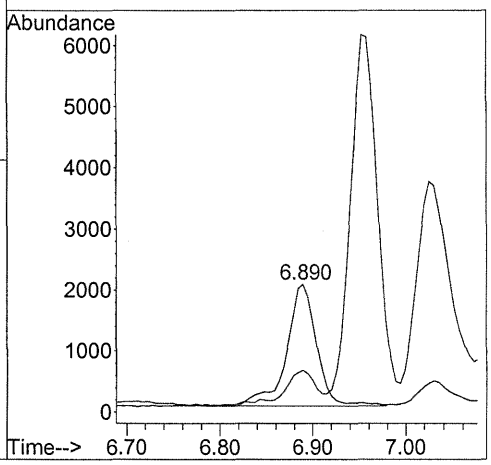


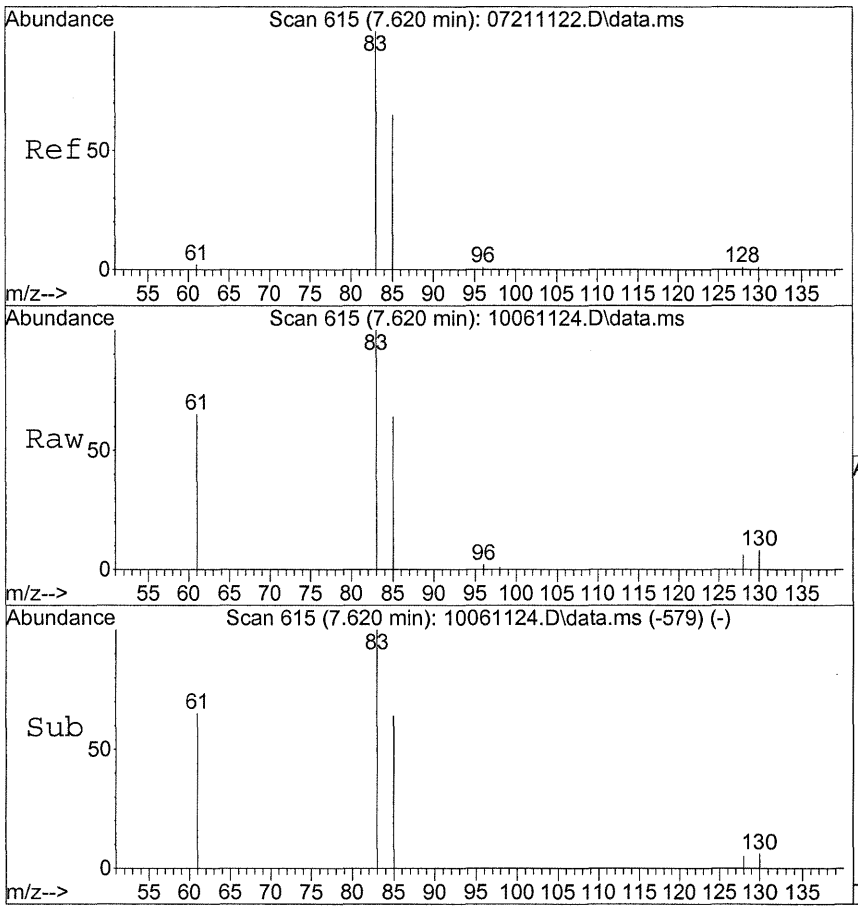


#14
Methyl tert-Butyl Ether
Concen: 14.99 pg
RT: 6.89 min Scan# 475
Delta R.T. 0.011 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 73 Resp: 4598

Ion	Ratio	Lower	Upper
73	100		
57	28.1	1.2	41.2

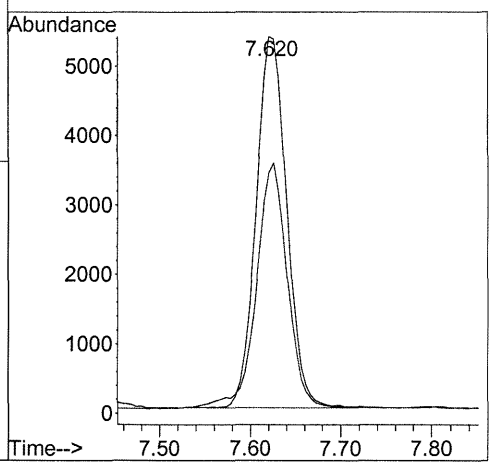


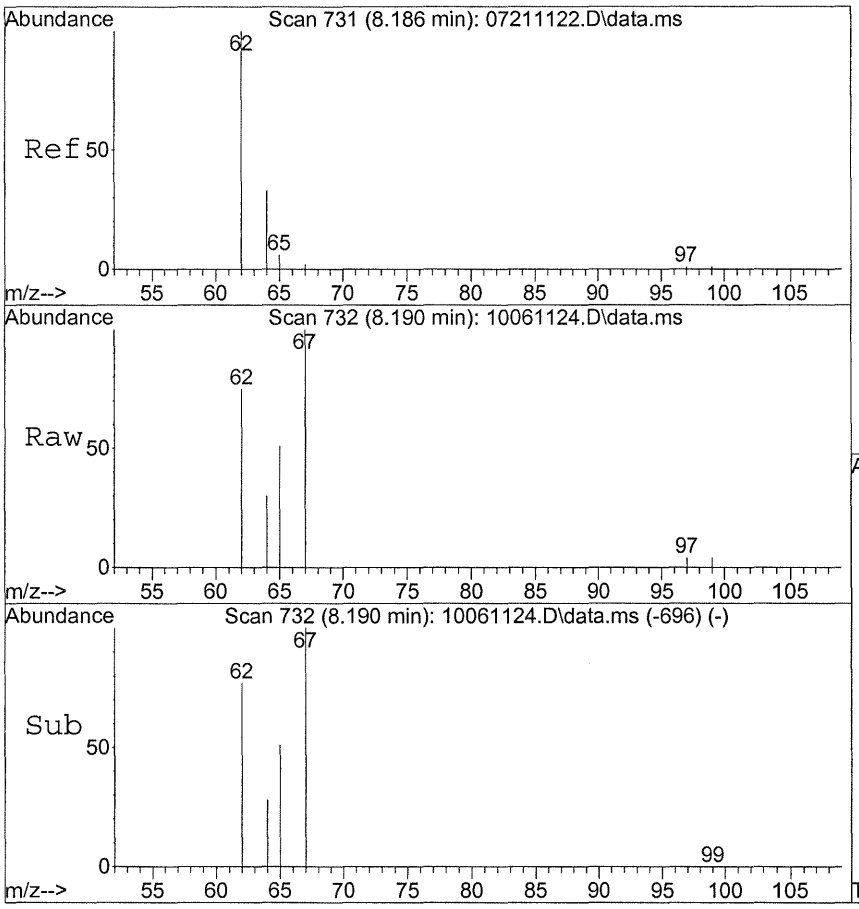


#16
Chloroform
Concen: 71.71 pg
RT: 7.62 min Scan# 615
Delta R.T. 0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 83 Resp: 12600

Ion	Ratio	Lower	Upper
83	100		
85	67.6	44.4	84.4

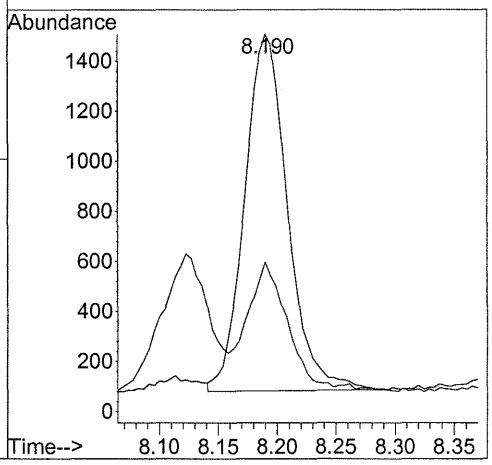


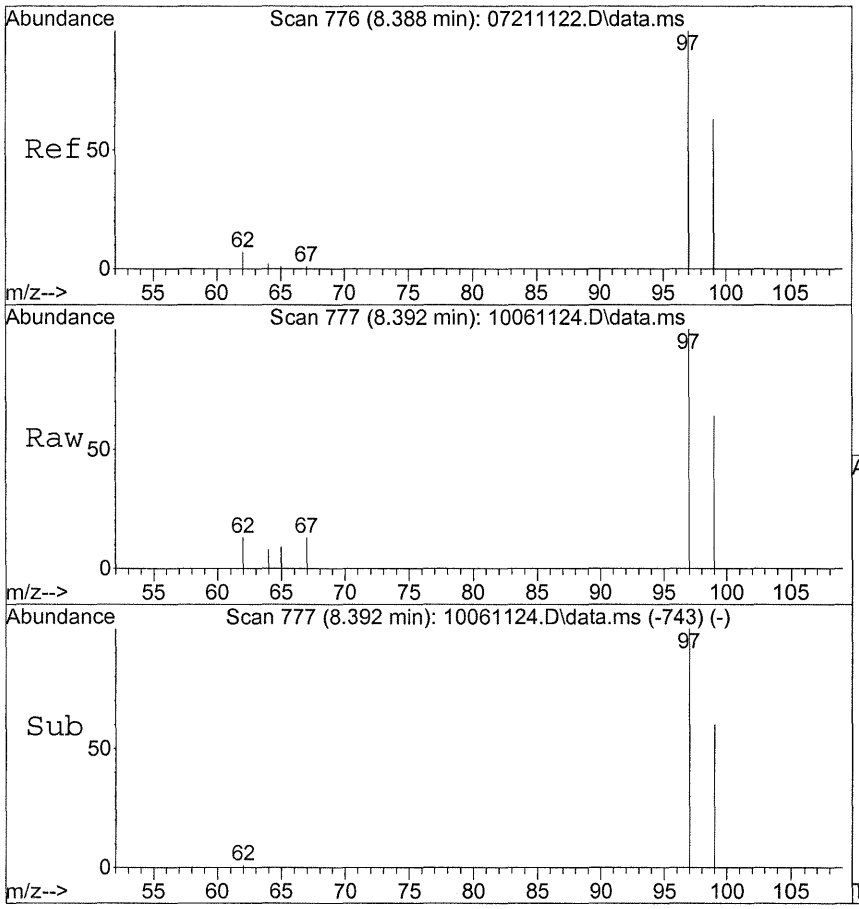


#18
1,2-Dichloroethane
Concen: 25.59 pg
RT: 8.19 min Scan# 732
Delta R.T. 0.004 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 62 Resp: 3608

Ion	Ratio	Lower	Upper
62	100		
64	35.4	10.3	50.3

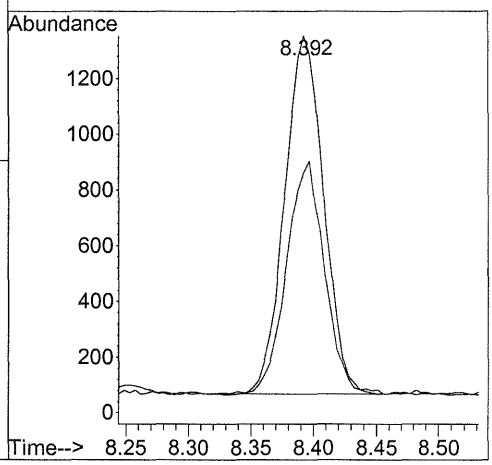


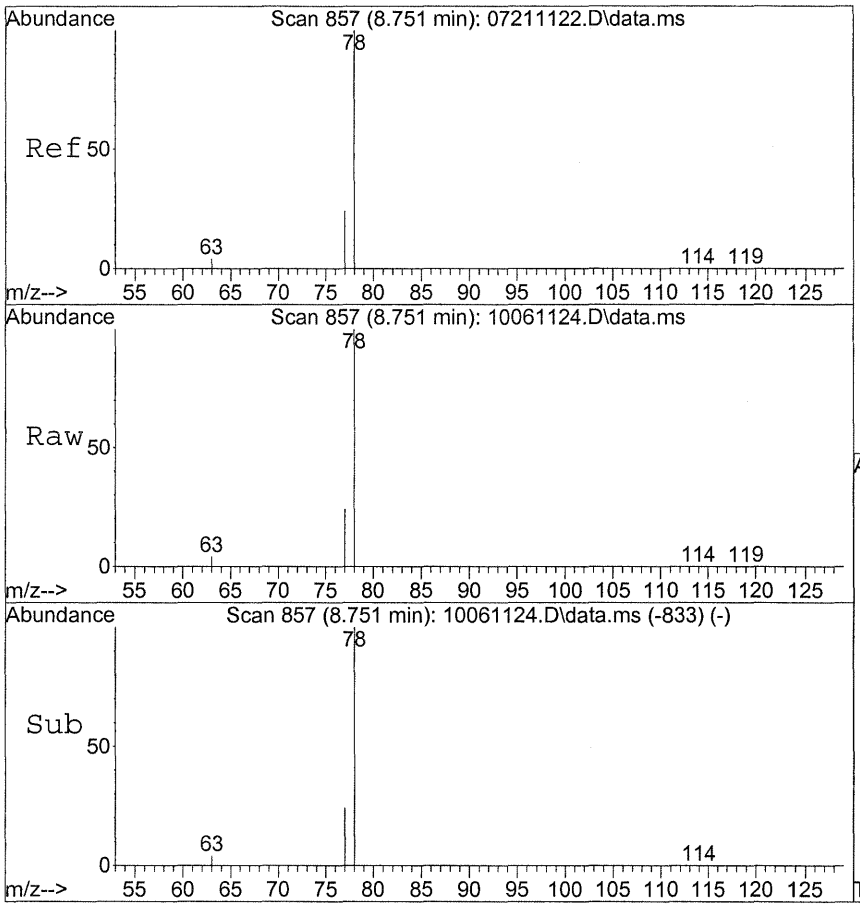


#19
1,1,1-Trichloroethane
Concen: 18.01 pg
RT: 8.39 min Scan# 777
Delta R.T. 0.004 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 97 Resp: 2806

Ion	Ratio	Lower	Upper
97	100		
99	63.6	45.2	85.2

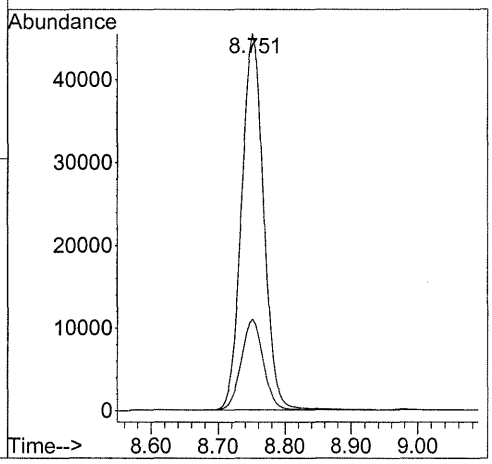


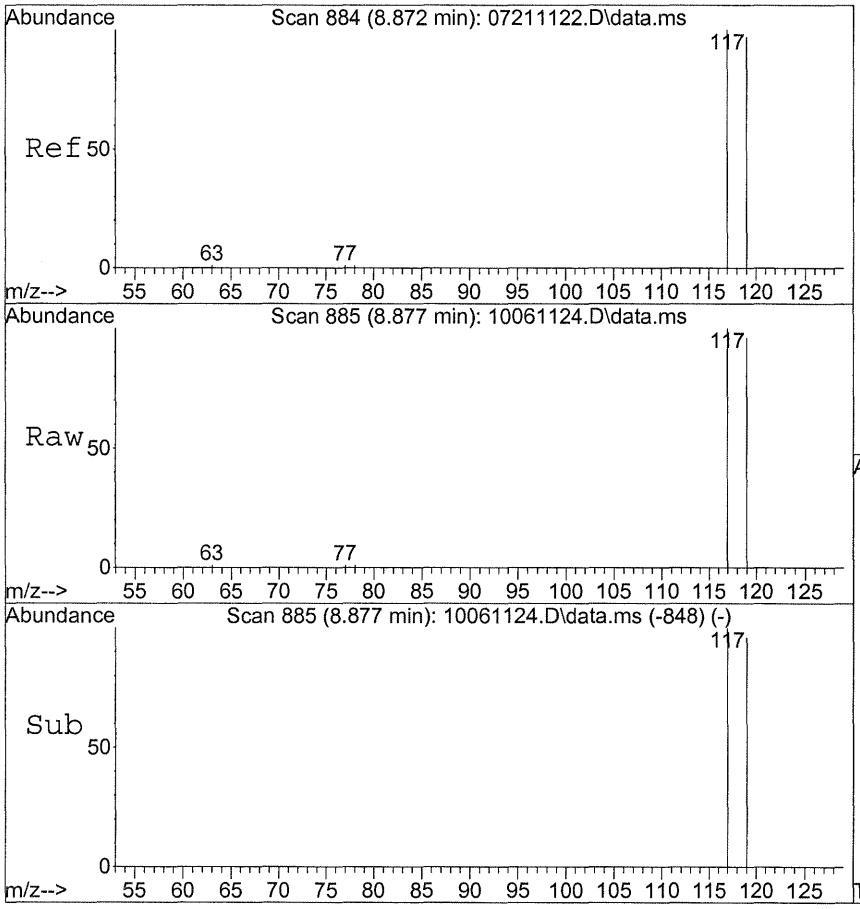


#20
Benzene
Concen: 256.80 pg
RT: 8.75 min Scan# 857
Delta R.T. 0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 78 Resp: 104999

Ion	Ratio	Lower	Upper
78	100		
77	24.2	4.0	44.0

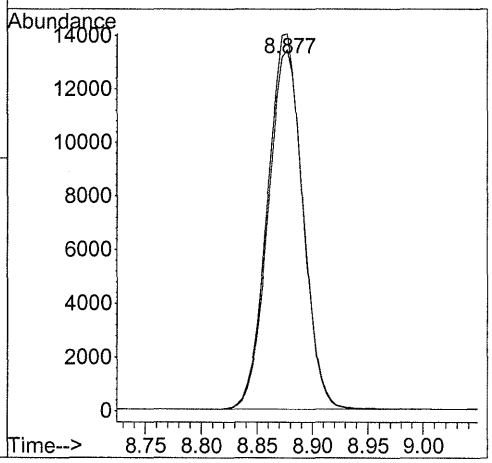


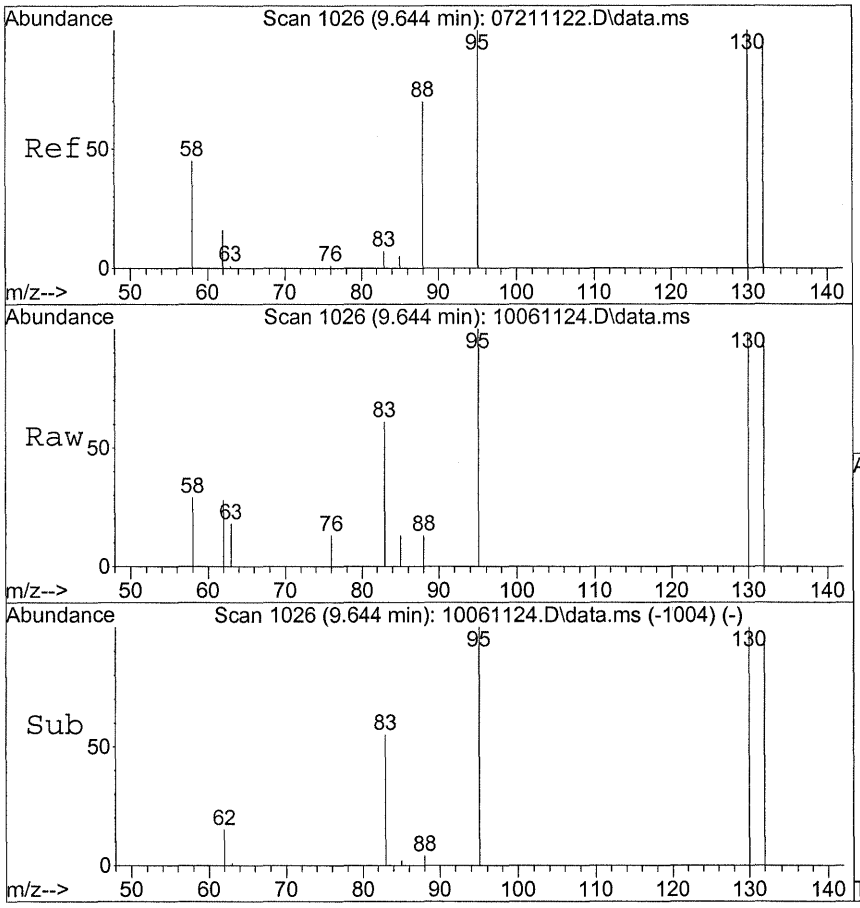


#21
Carbon Tetrachloride
Concen: 251.86 pg
RT: 8.88 min Scan# 885
Delta R.T. 0.005 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion:117 Resp: 30726

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.5	117.5

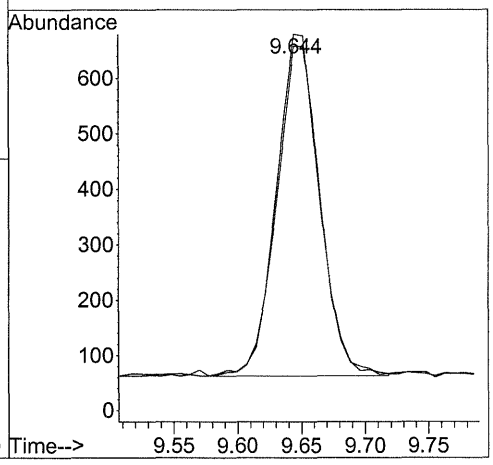


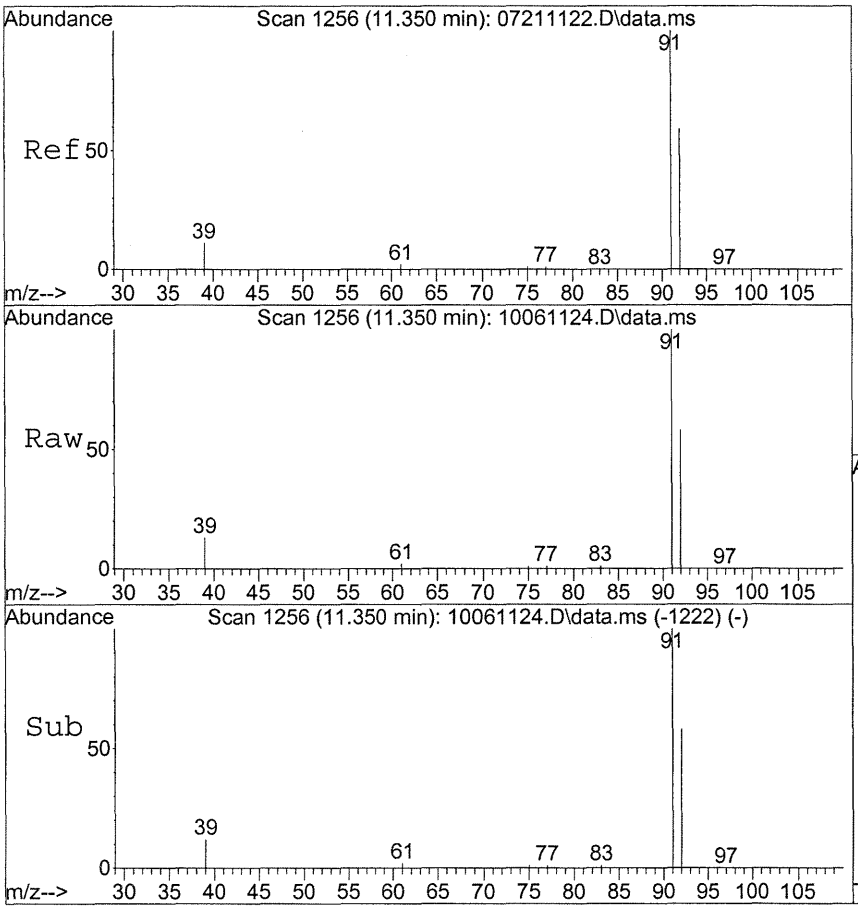


#25
Trichloroethene
Concen: 13.85 pg
RT: 9.64 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion:130 Resp: 1452

Ion	Ratio	Lower	Upper
130	100		
132	97.7	74.7	114.7

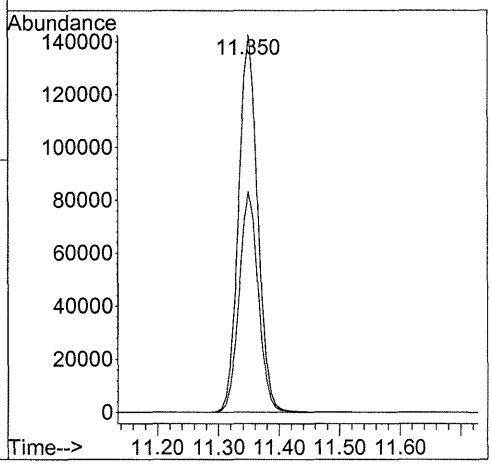


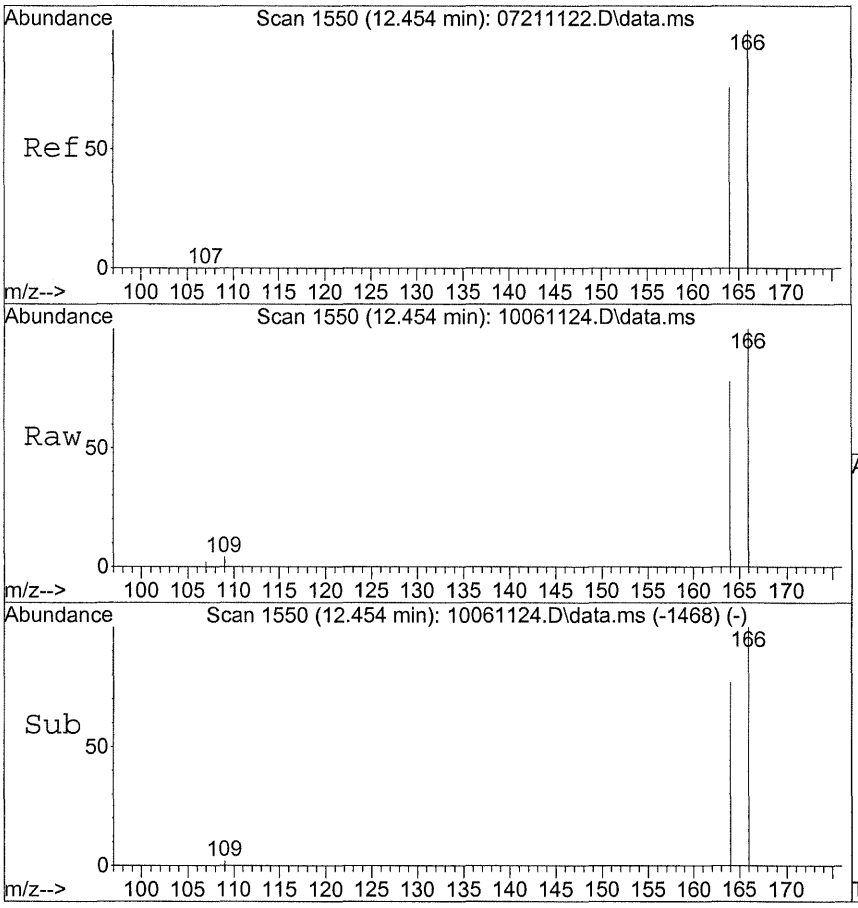


#31
Toluene
Concen: 784.45 pg
RT: 11.35 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 91 Resp: 315143

Ion	Ratio	Lower	Upper
91	100		
92	58.5	38.2	78.2

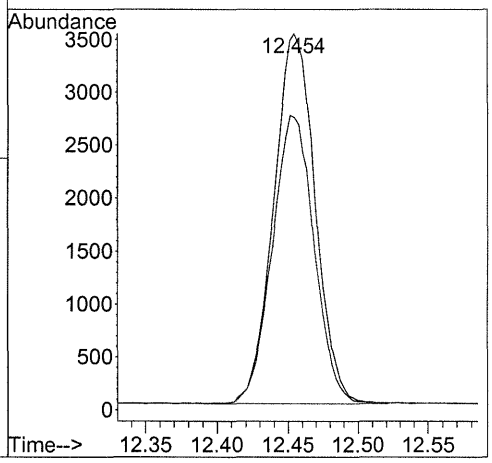


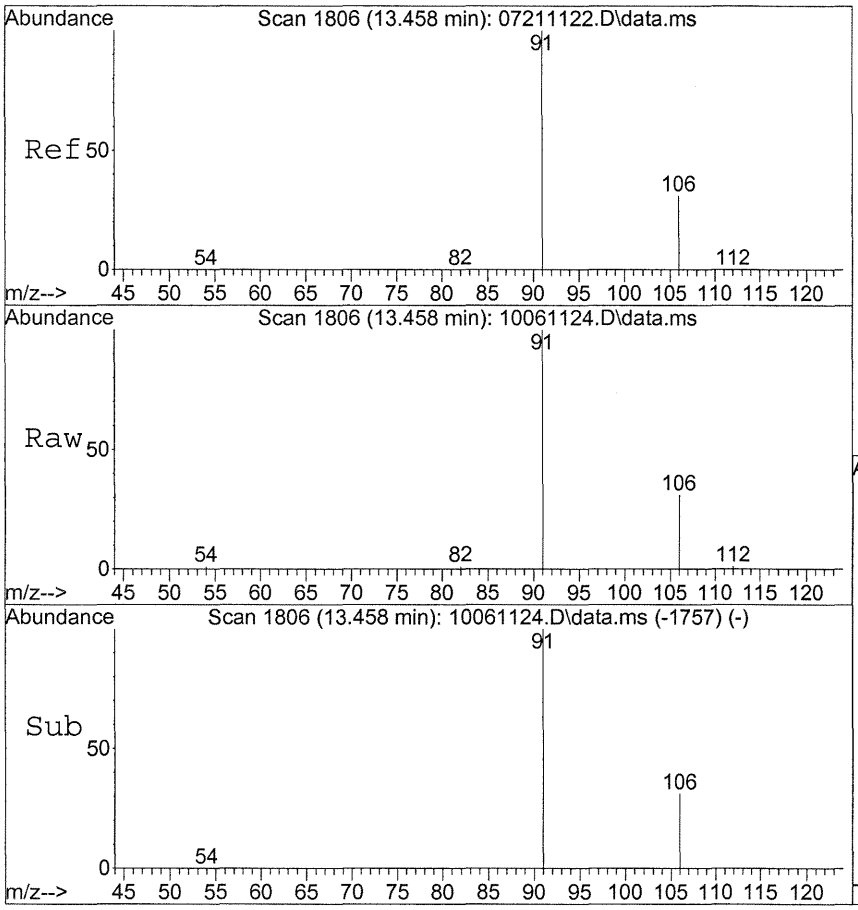


#33
Tetrachloroethene
Concen: 63.95 pg
RT: 12.45 min Scan# 1550
Delta R.T. 0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion:166 Resp: 7189

Ion	Ratio	Lower	Upper
166	100		
164	78.8	58.2	98.2

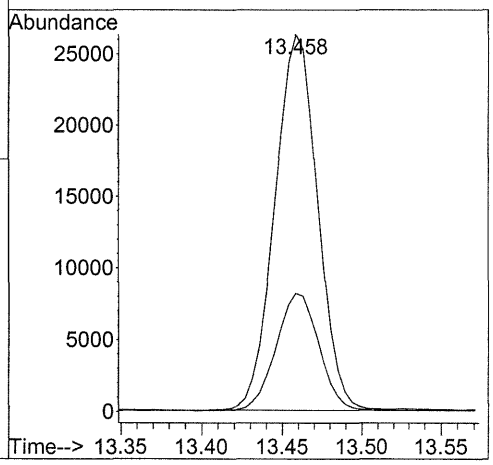


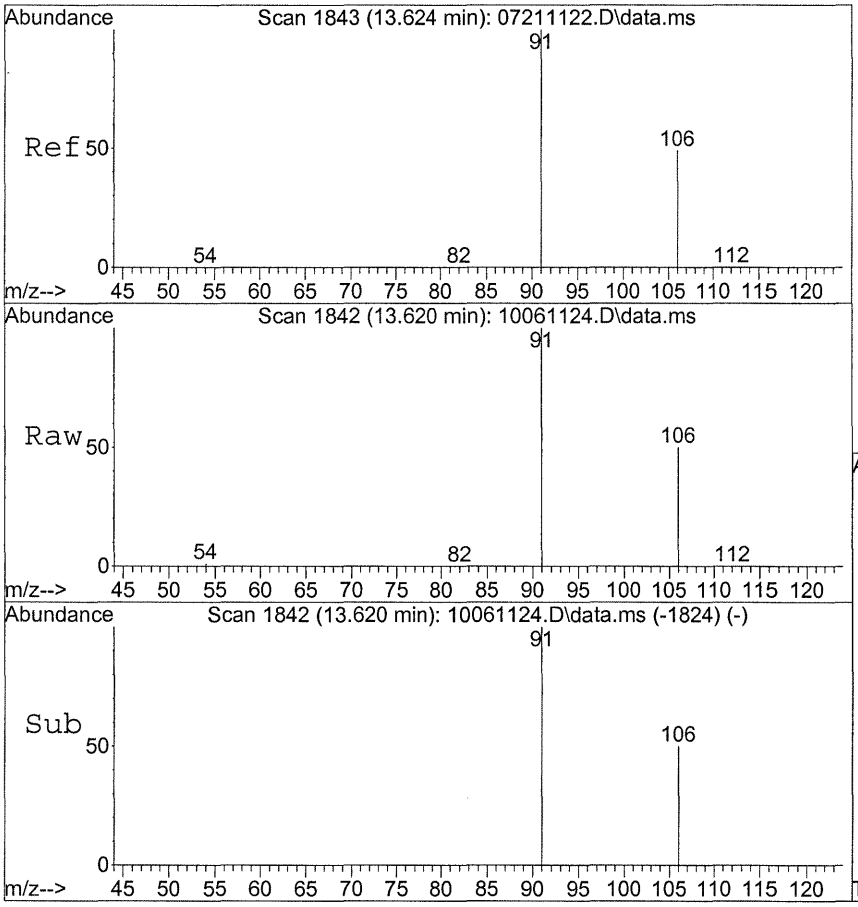


#36
Ethylbenzene
Concen: 109.35 pg
RT: 13.46 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 91 Resp: 49011

Ion	Ratio	Lower	Upper
91	100		
106	31.1	11.9	51.9

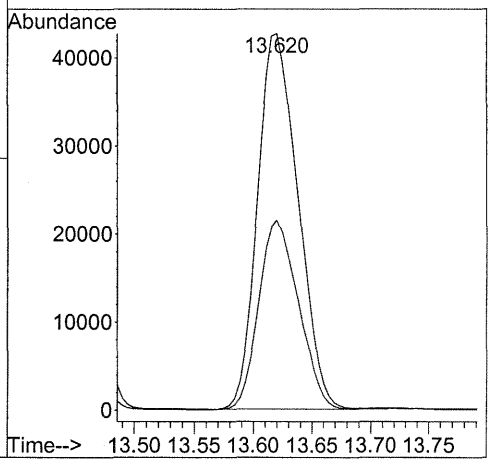


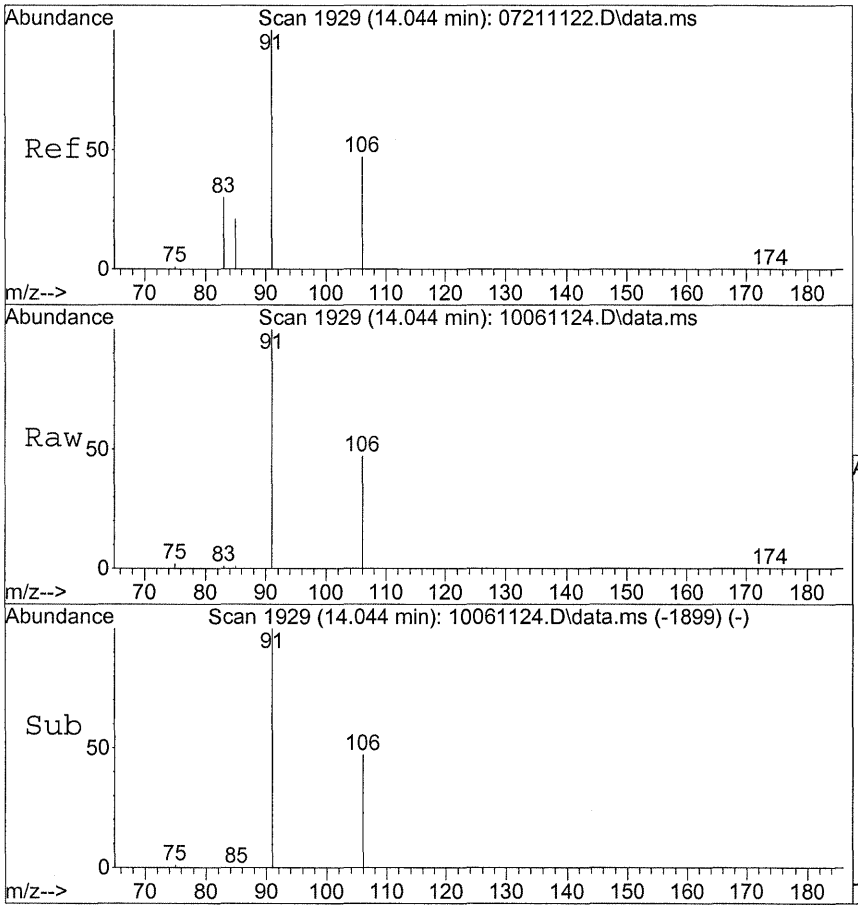


#37
m,p-Xylene
Concen: 279.76 pg
RT: 13.62 min Scan# 1842
Delta R.T. -0.004 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 91 Resp: 102082

Ion	Ratio	Lower	Upper
91	100		
106	49.6	30.3	70.3

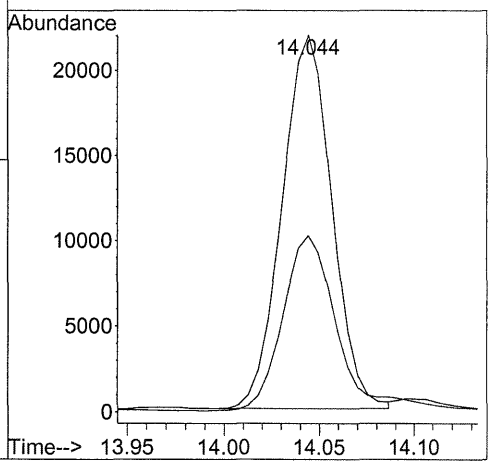


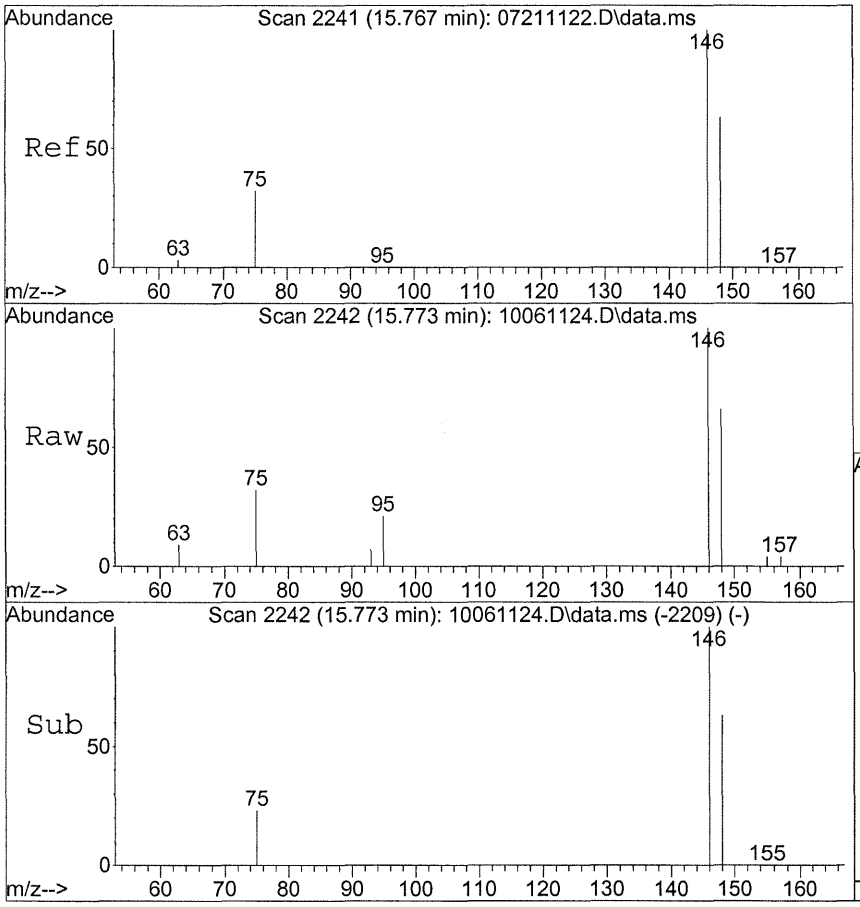


#38
o-Xylene
Concen: 107.20 pg
RT: 14.04 min Scan# 1929
Delta R.T. 0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion: 91 Resp: 39907

Ion	Ratio	Lower	Upper
91	100		
106	51.4	28.4	68.4

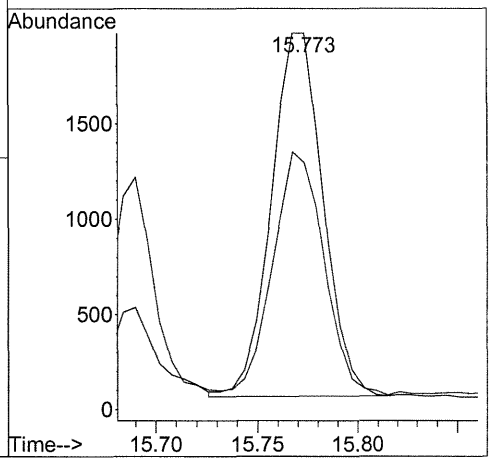


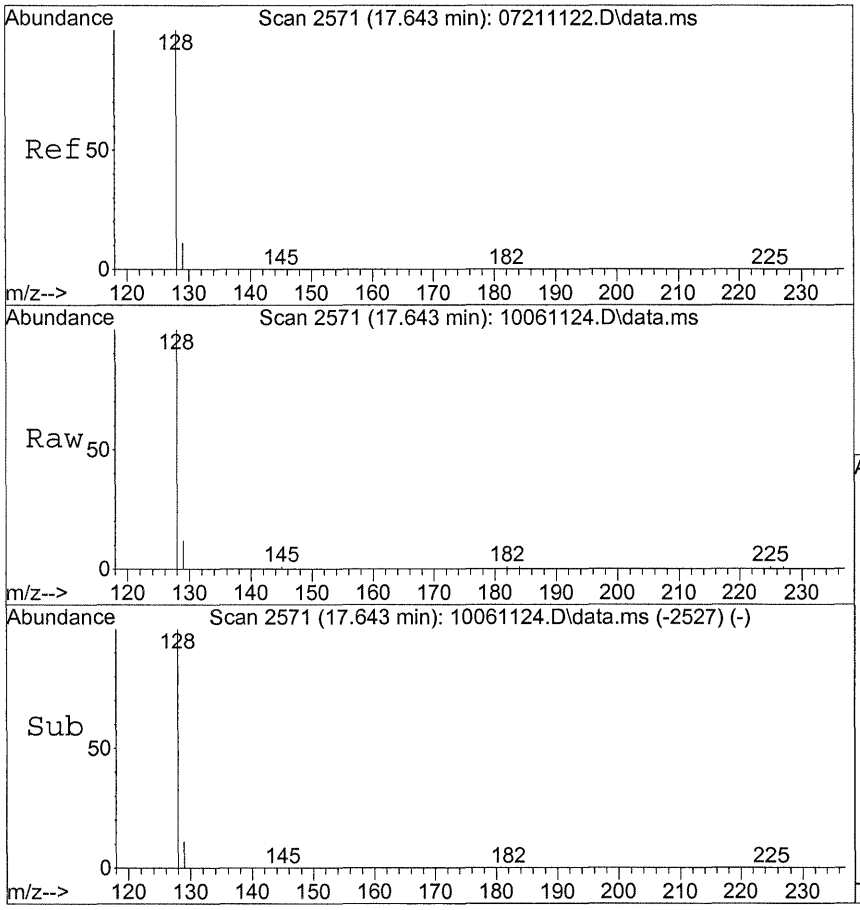


#42
1,4-Dichlorobenzene
Concen: 15.44 pg
RT: 15.77 min Scan# 2242
Delta R.T. 0.006 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion:146 Resp: 3429

Ion	Ratio	Lower	Upper
146	100		
148	66.1	42.9	82.9

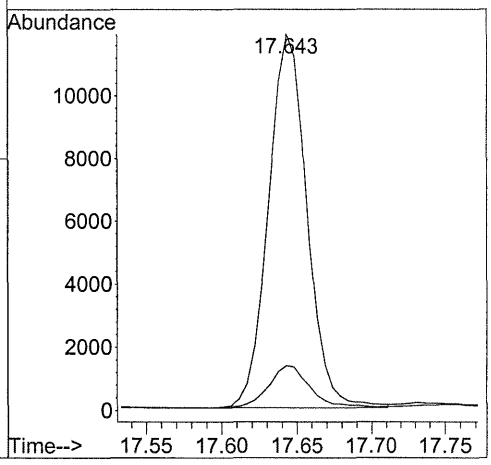




#45
Naphthalene
Concen: 38.83 pg
RT: 17.64 min Scan# 2571
Delta R.T. 0.000 min
Lab File: 10061124.D
Acq: 6 Oct 2011 20:03

Tgt Ion:128 Resp: 21210

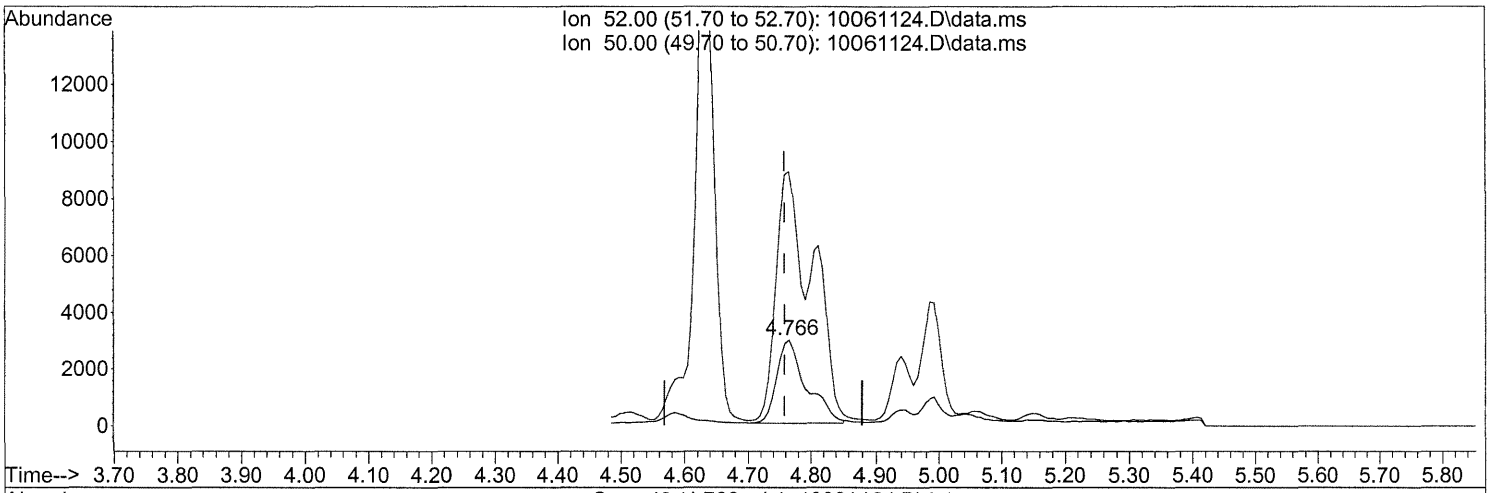
Ion	Ratio	Lower	Upper
128	100		
129	12.3	0.0	30.9

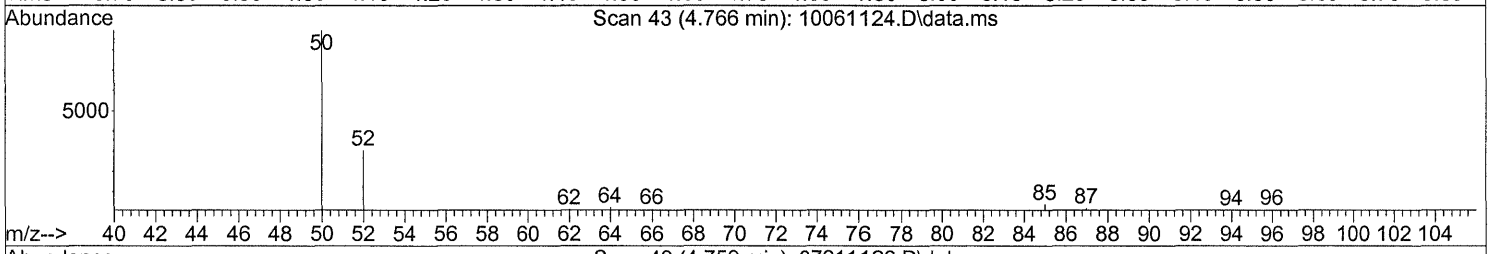


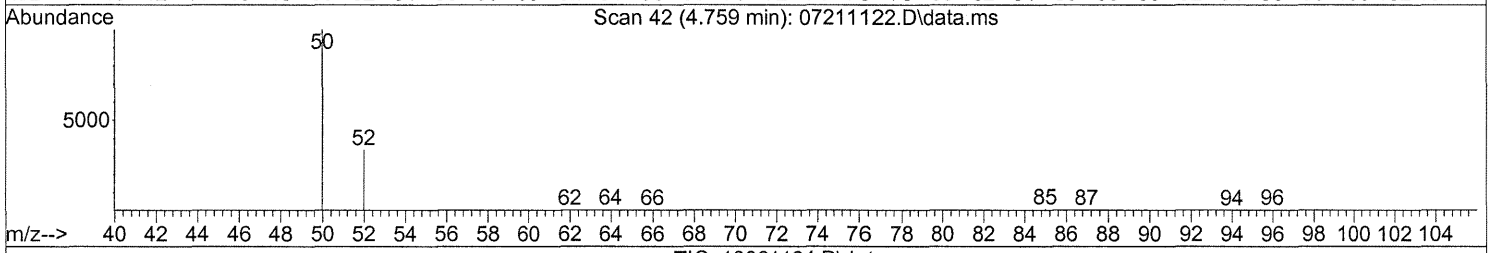
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 20:30:09 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061124.D\data.ms

(3) Chloromethane (T)

4.766min (+0.007) 209.23pg

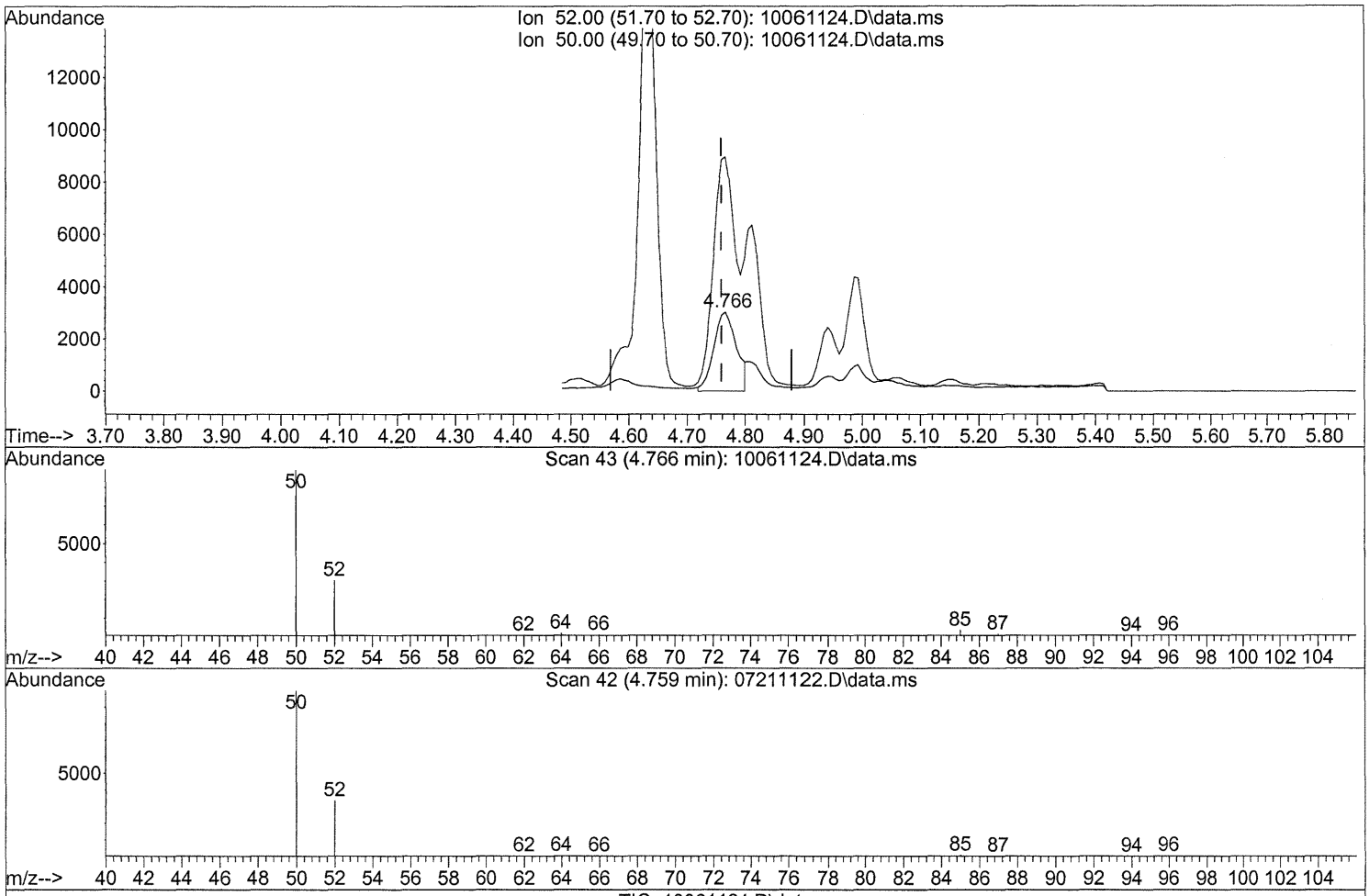
response 9581

Ion	Exp%	Act%
52.00	100	100
50.00	305.30	243.13#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 20:30:09 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061124.D\data.ms

(3) Chloromethane (T)

4.766min (+0.007) 180.28pg m

response 8255

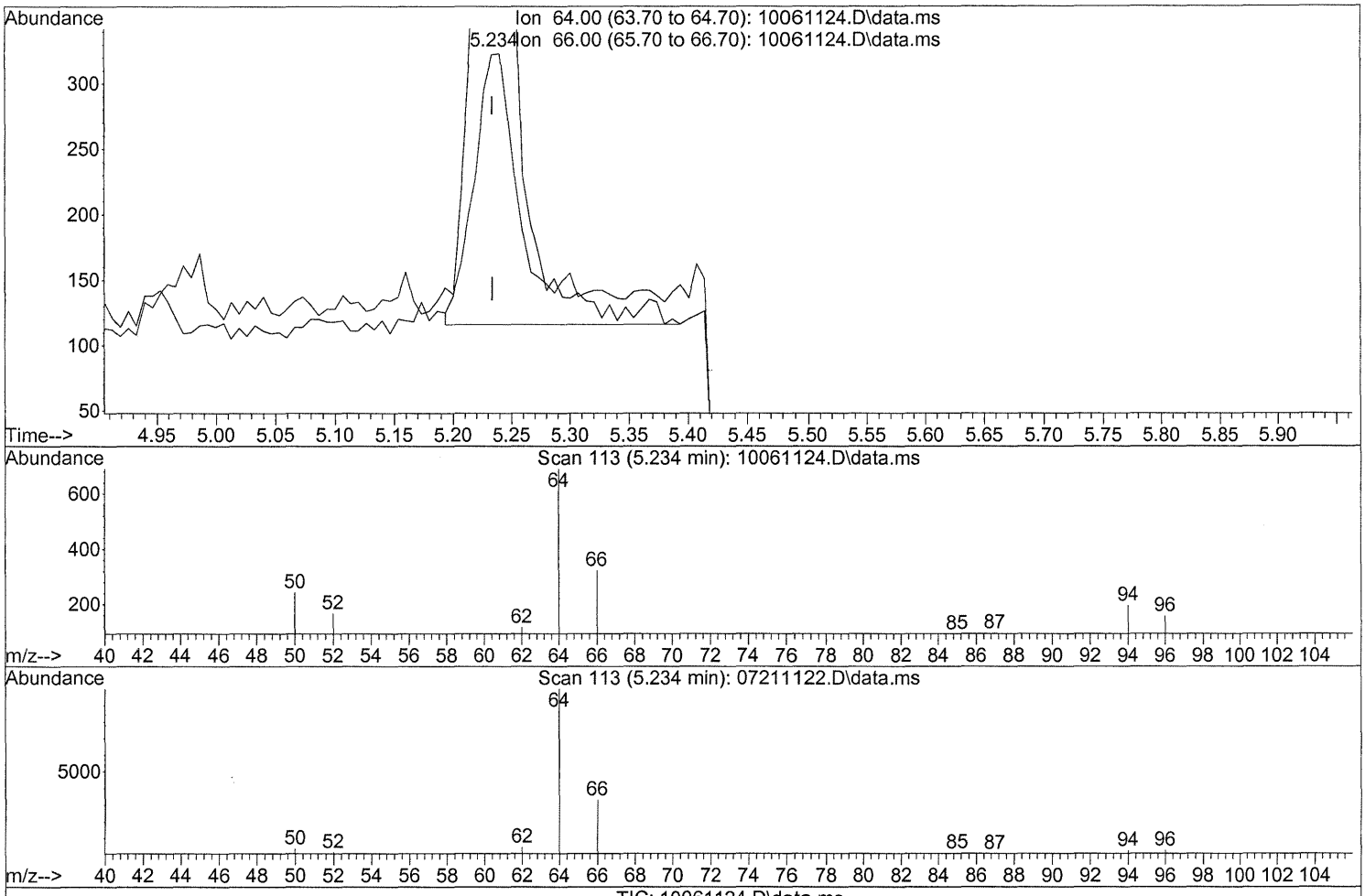
Ion	Exp%	Act%
52.00	100	100
50.00	305.30	282.18#
0.00	0.00	0.00
0.00	0.00	0.00

IPC
10A 10/7/11
131 10/7/11

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 20:30:09 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061124.D\data.ms

(6) Chloroethane (T)

5.234min (-0.000) 16.13pg

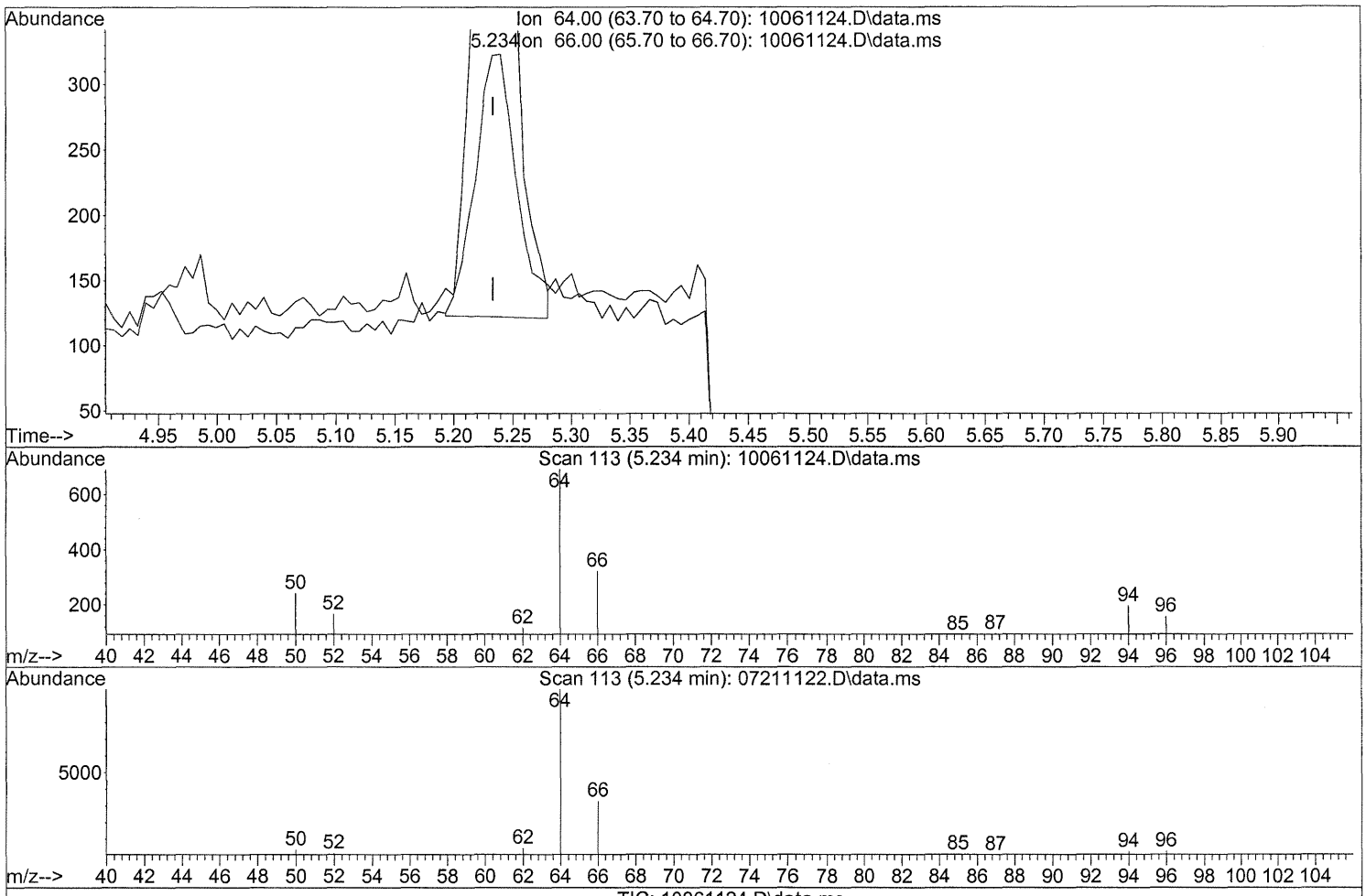
response 1378

Ion	Exp%	Act%
64.00	100	100
66.00	32.00	30.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 20:30:09 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061124.D\data.ms

(6) Chloroethane (T)

5.234min (-0.000) 14.69pg m

response 1255

Ion	Exp%	Act%
64.00	100	100
66.00	32.00	33.07
0.00	0.00	0.00
0.00	0.00	0.00

BLC

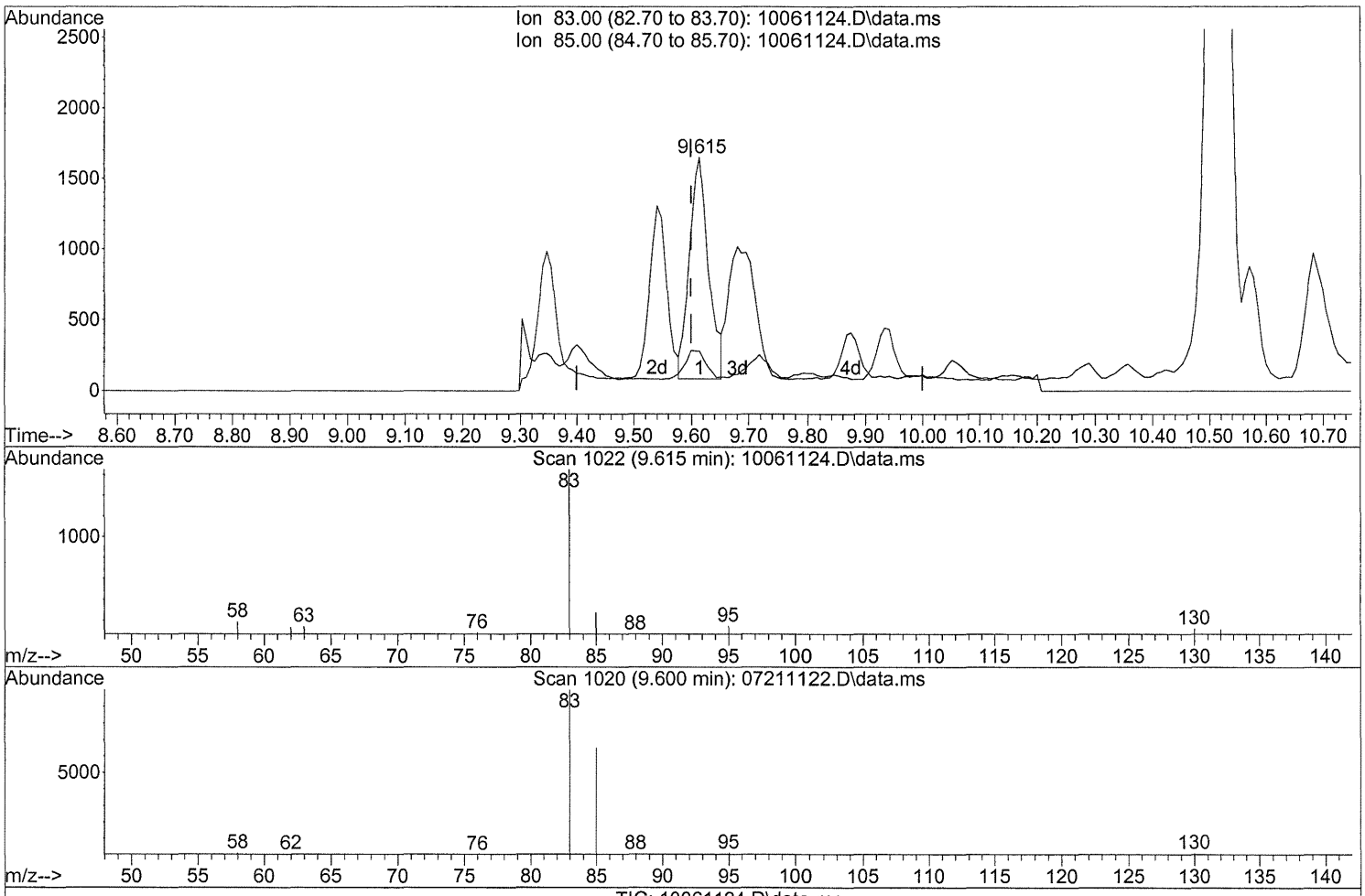
LDA 10/7/11

LM 10/7/11

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 20:30:09 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061124.D\data.ms

(24) Bromodichloromethane (T)

9.615min (+0.015) 29.28pg

response 3595

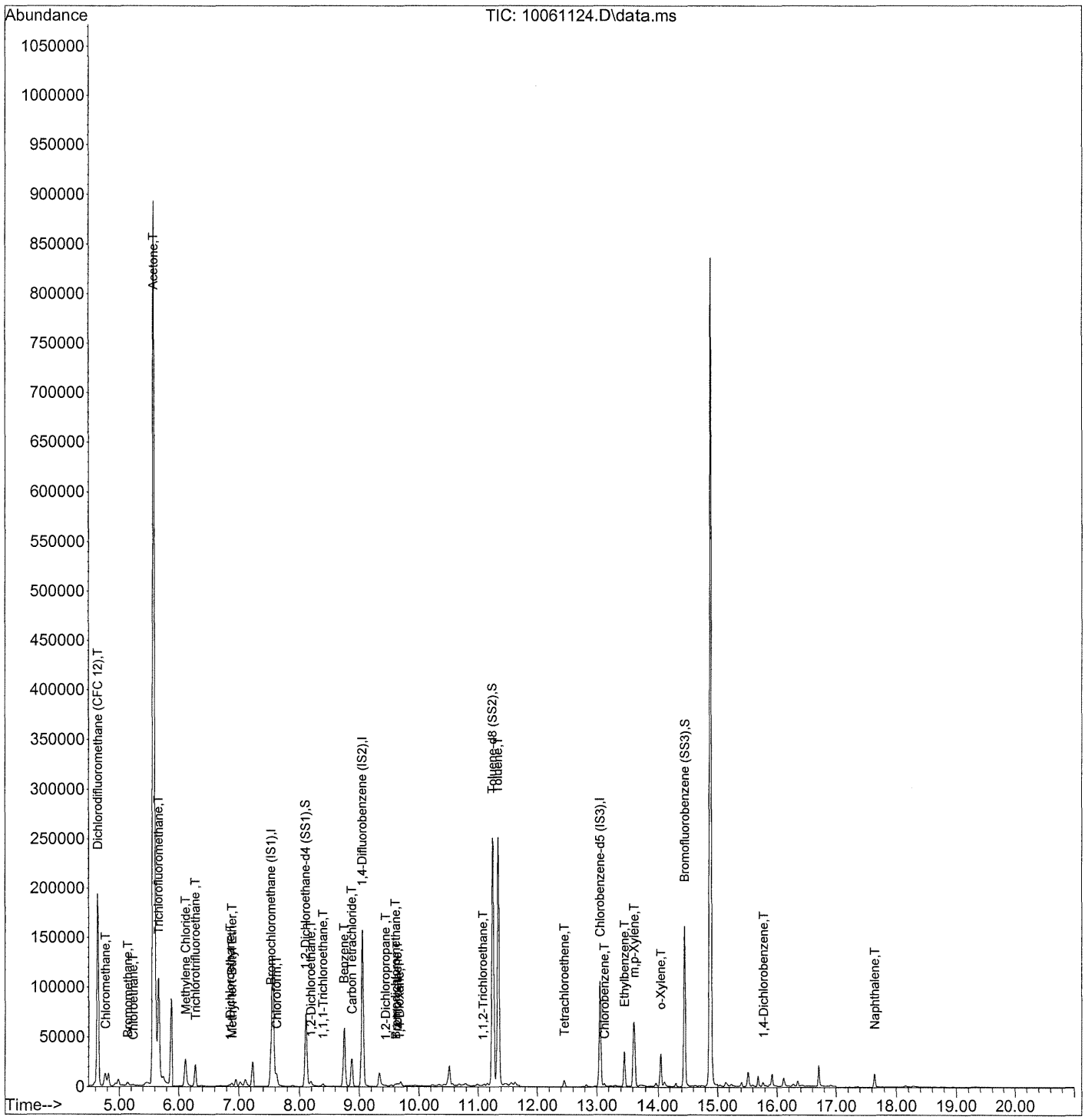
FP

Ion	Exp%	Act%
83.00	100	100
85.00	63.50	15.16#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 20:30:09 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 20:30:09 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	63239	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	298273	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	149457	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.10	65	121568	983.27	pg		0.00
Spiked Amount 1000.000			Recovery = 98.33%				
30) Toluene-d8 (SS2)	11.25	98	330876	1020.43	pg		0.00
Spiked Amount 1000.000			Recovery = 102.04%				
40) Bromofluorobenzene (SS3)	14.45	174	115806	973.19	pg		0.00
Spiked Amount 1000.000			Recovery = 97.32%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.64	85	247330	1332.02	pg		98
3) Chloromethane	4.77	52	9581	209.23	pg	#	69
4) Vinyl Chloride	4.91	62	207	N.D.			
5) Bromomethane	5.14	94	3691	50.31	pg		100
6) Chloroethane	5.23	64	1378	16.13	pg		97
7) Acetone	5.58	58	454242	6230.74	pg	#	77
8) Trichlorofluoromethane	5.66	101	115241	662.86	pg		98
9) 1,1-Dichloroethene	6.04	96	172	N.D.			
10) Methylene Chloride	6.12	84	24009	242.70	pg		92
11) Trichlorotrifluoroethane	6.28	151	23998	300.10	pg		99
12) trans-1,2-Dichloroethene	6.70	96	83	N.D.			
13) 1,1-Dichloroethane	6.86	63	554	3.71	pg	#	1
14) Methyl tert-Butyl Ether	6.89	73	4598	14.99	pg		85
15) cis-1,2-Dichloroethene	7.41	96	22	N.D.			
16) Chloroform	7.62	83	12600	71.71	pg		96
18) 1,2-Dichloroethane	8.19	62	3608	25.59	pg		91
19) 1,1,1-Trichloroethane	8.39	97	2806	18.01	pg		98
20) Benzene	8.75	78	104999	256.80	pg		100
21) Carbon Tetrachloride	8.88	117	30726	251.86	pg		99
23) 1,2-Dichloropropane	9.44	63	597	6.37	pg		96
24) Bromodichloromethane	9.61	83	3595	29.28	pg	#	38
25) Trichloroethene	9.64	130	1452	13.85	pg		97
26) 1,4-Dioxane	9.67	88	524	6.62	pg	#	1
27) cis-1,3-Dichloropropene	10.42	75	449	N.D.			
28) trans-1,3-Dichloropropene	10.93	75	363	N.D.			
29) 1,1,2-Trichloroethane	11.08	83	488	6.53	pg	#	10
31) Toluene	11.35	91	315143	784.45	pg		100
32) 1,2-Dibromoethane	12.00	107	29	N.D.			
33) Tetrachloroethene	12.45	166	7189	63.95	pg		99
35) Chlorobenzene	13.13	112	2314	9.09	pg		65

Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061124.D
Acq On : 6 Oct 2011 20:03
Operator : KR
Sample : P1103662-007 (1000mL)
Misc :
ALS Vial : 11 Sample Multiplier: 1

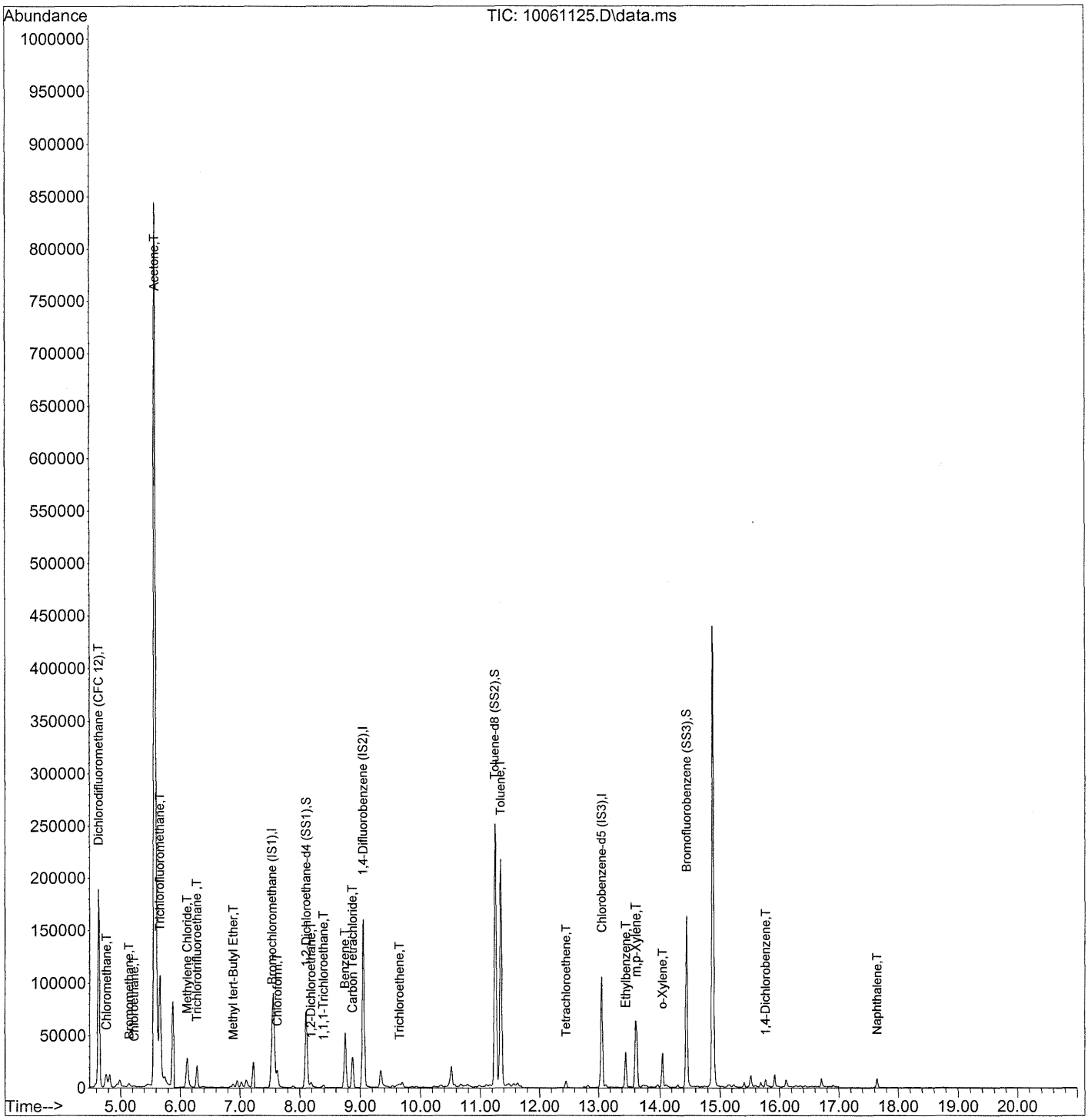
Quant Time: Oct 06 20:30:09 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Ethylbenzene	13.46	91	49011	109.35 pg	99
37) m,p-Xylene	13.62	91	102082	279.76 pg	99
38) o-Xylene	14.04	91	39907	107.20 pg	96
39) 1,1,2,2-Tetrachloroethane	14.03	83	182	N.D.	
41) 1,3-Dichlorobenzene	15.69	146	766	N.D.	
42) 1,4-Dichlorobenzene	15.77	146	3429	15.44 pg	96
43) 1,2-Dichlorobenzene	16.07	146	140	N.D.	
44) 1,2,4-Trichlorobenzene	17.55	182	225	N.D.	
45) Naphthalene	17.64	128	21210	38.83 pg	96
46) Hexachlorobutadiene	17.97	225	51	N.D.	

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

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:39:35 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

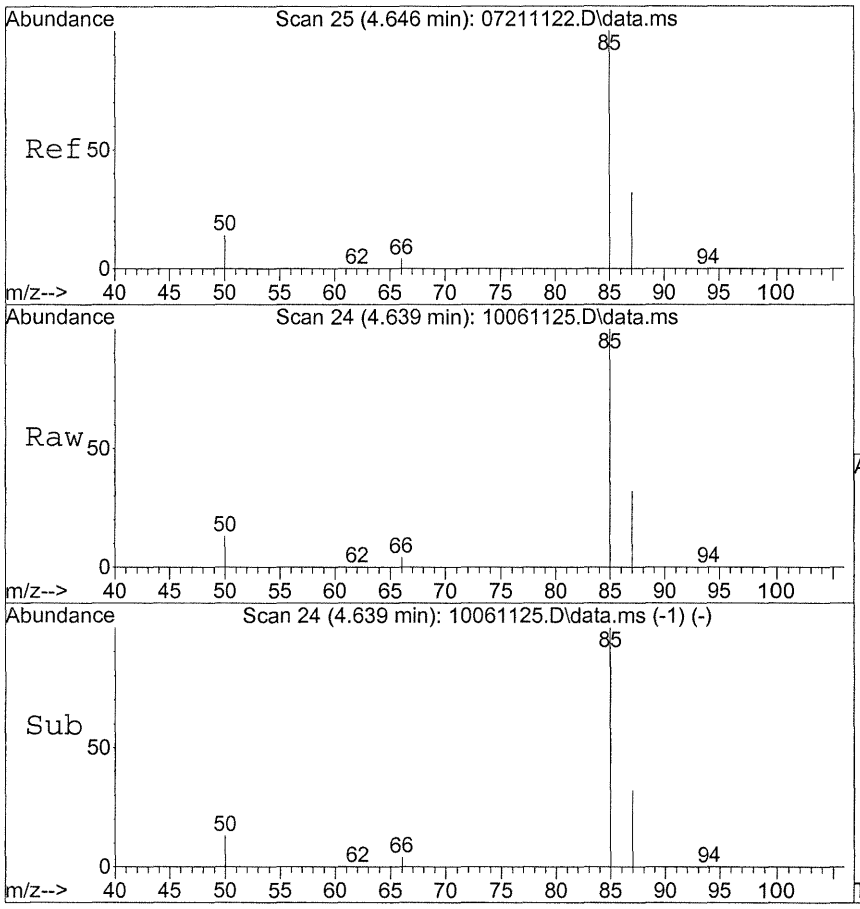
Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:39:35 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	63221	1000.00 pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	302884	1000.00 pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	148267	1000.00 pg	0.00
System Monitoring Compounds					
17) 1,2-Dichloroethane-d4 ...	8.11	65	121228	980.79 pg	0.00
Spiked Amount 1000.000			Recovery =	98.08%	
30) Toluene-d8 (SS2)	11.25	98	331390	1006.45 pg	0.00
Spiked Amount 1000.000			Recovery =	100.65%	
40) Bromofluorobenzene (SS3)	14.45	174	117204	992.84 pg	0.00
Spiked Amount 1000.000			Recovery =	99.28%	
Target Compounds					Qvalue
2) Dichlorodifluoromethan...	4.64	85	239308	1289.18 pg	98
3) Chloromethane	4.77	52	7485m	163.51 pg	
5) Bromomethane	5.14	94	3704	50.50 pg	97
6) Chloroethane	5.23	64	1096	12.84 pg	91
7) Acetone	5.58	58	438639	6018.43 pg	# 79
8) Trichlorofluoromethane	5.66	101	113021	650.28 pg	98
10) Methylene Chloride	6.12	84	24493	247.66 pg	92
11) Trichlorotrifluoroethane	6.28	151	22787	285.04 pg	99
14) Methyl tert-Butyl Ether	6.89	73	4720m	15.40 pg	
16) Chloroform	7.63	83	18808	107.07 pg	97
18) 1,2-Dichloroethane	8.19	62	3540	25.11 pg	94
19) 1,1,1-Trichloroethane	8.39	97	2716	17.44 pg	99
20) Benzene	8.75	78	95098	232.65 pg	100
21) Carbon Tetrachloride	8.88	117	32295	264.80 pg	99
25) Trichloroethene	9.65	130	1649	15.49 pg	96
31) Toluene	11.35	91	272687	668.43 pg	100
33) Tetrachloroethene	12.45	166	7063	61.87 pg	99
36) Ethylbenzene	13.46	91	46452	104.48 pg	98
37) m,p-Xylene	13.62	91	101640	280.78 pg	99
38) o-Xylene	14.04	91	39529	107.04 pg	96
42) 1,4-Dichlorobenzene	15.77	146	5963	27.06 pg	98
45) Naphthalene	17.64	128	13506	24.92 pg	95

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

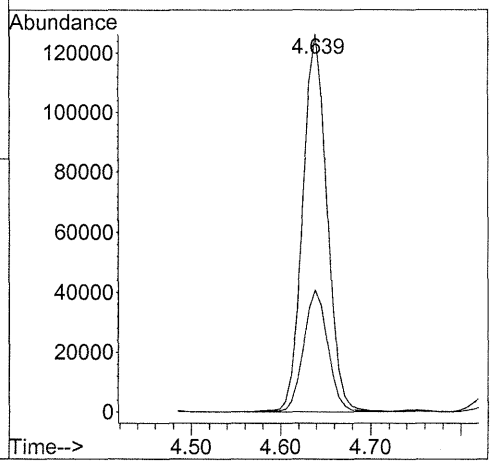
10/7/11

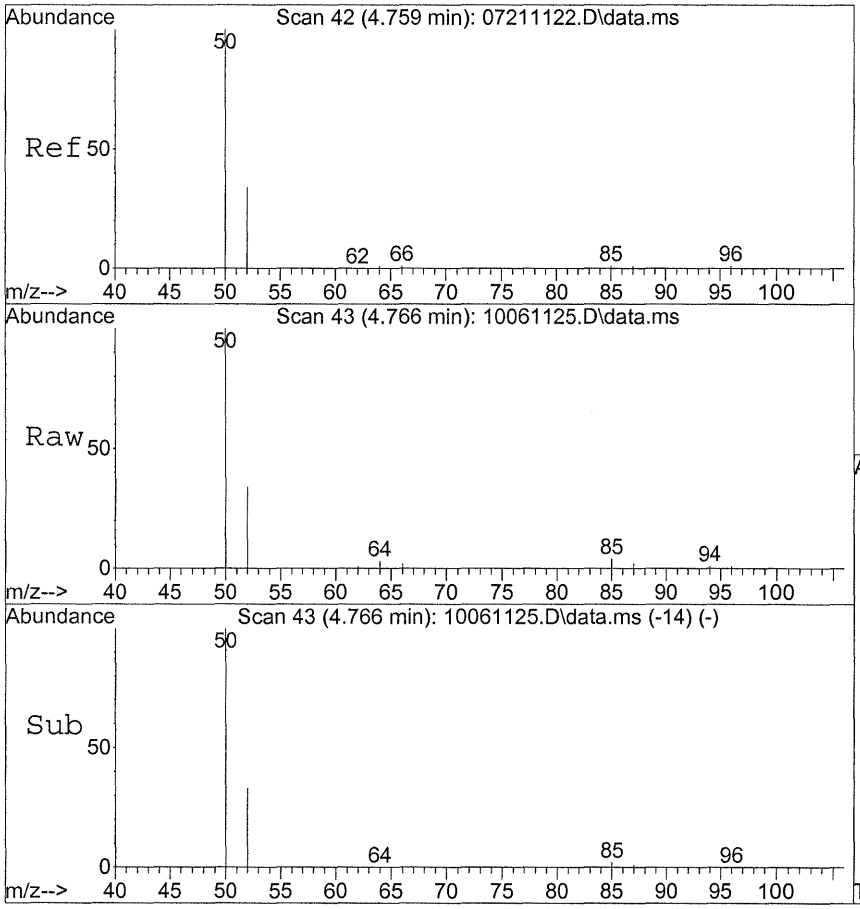


#2
Dichlorodifluoromethane (CFC
Concen: 1289.18 pg
RT: 4.64 min Scan# 24
Delta R.T. -0.007 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 85 Resp: 239308

Ion	Ratio	Lower	Upper
85	100		
87	32.2	13.3	53.3

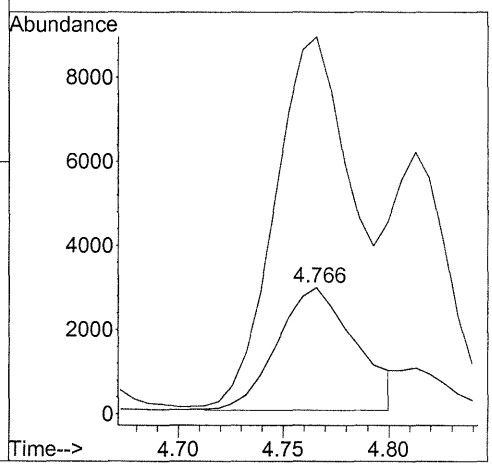


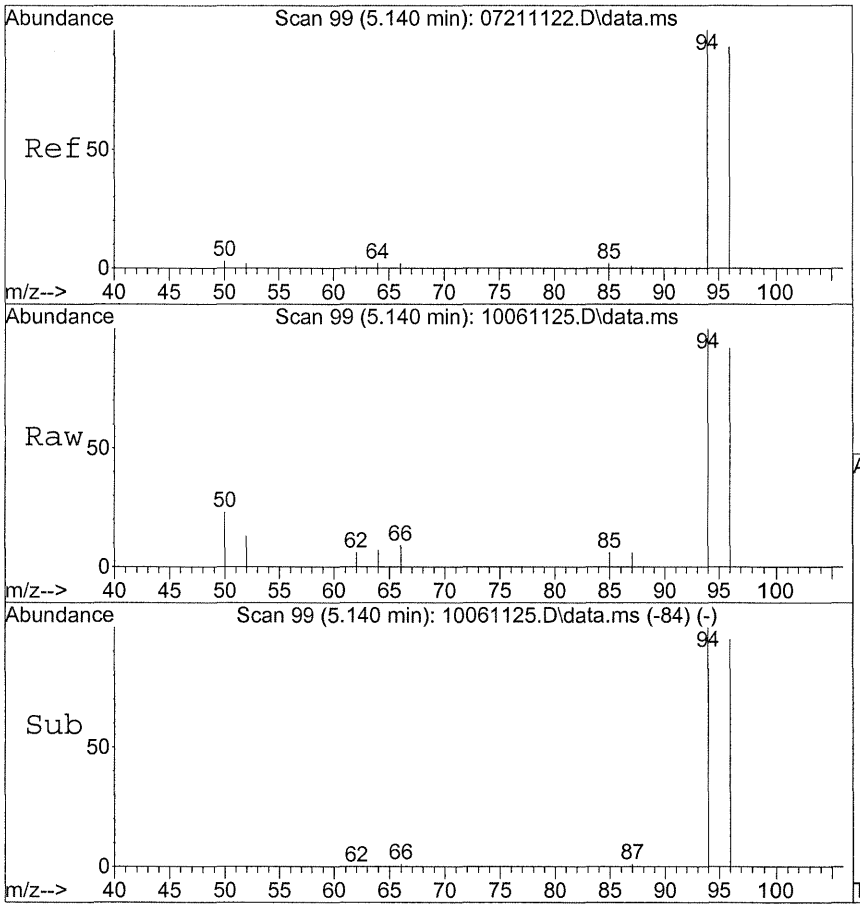


#3
Chloromethane
Concen: 163.51 pg m
RT: 4.77 min Scan# 43
Delta R.T. 0.007 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 52 Resp: 7485

Ion	Ratio	Lower	Upper
52	100		
50	297.3	285.3	325.3

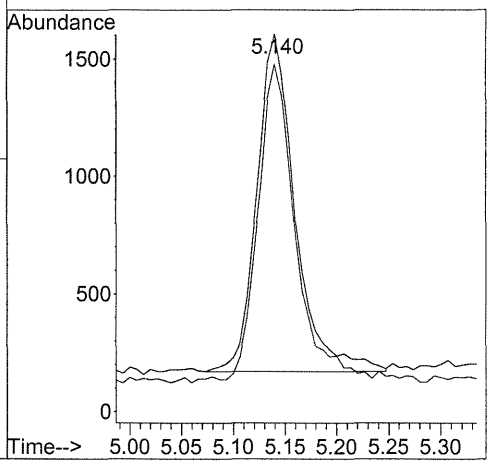


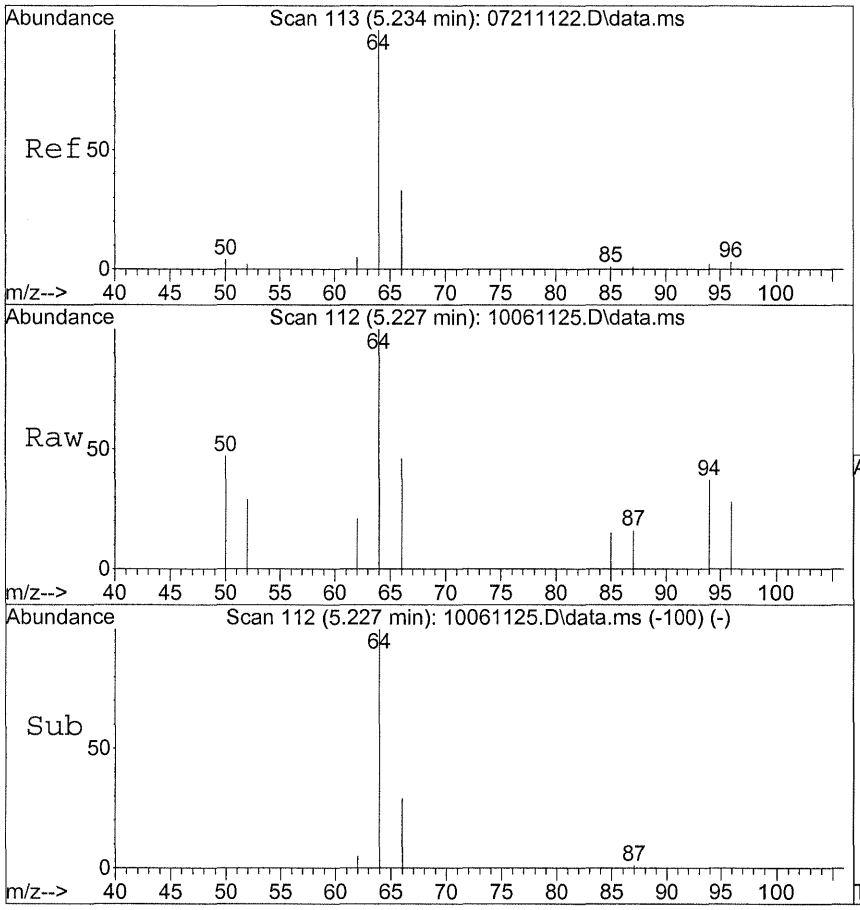


#5
Bromomethane
Concen: 50.50 pg
RT: 5.14 min Scan# 99
Delta R.T. 0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 94 Resp: 3704

Ion	Ratio	Lower	Upper
94	100		
96	89.7	74.2	111.4

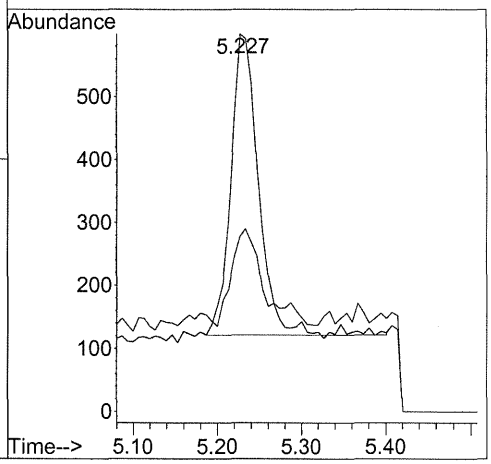


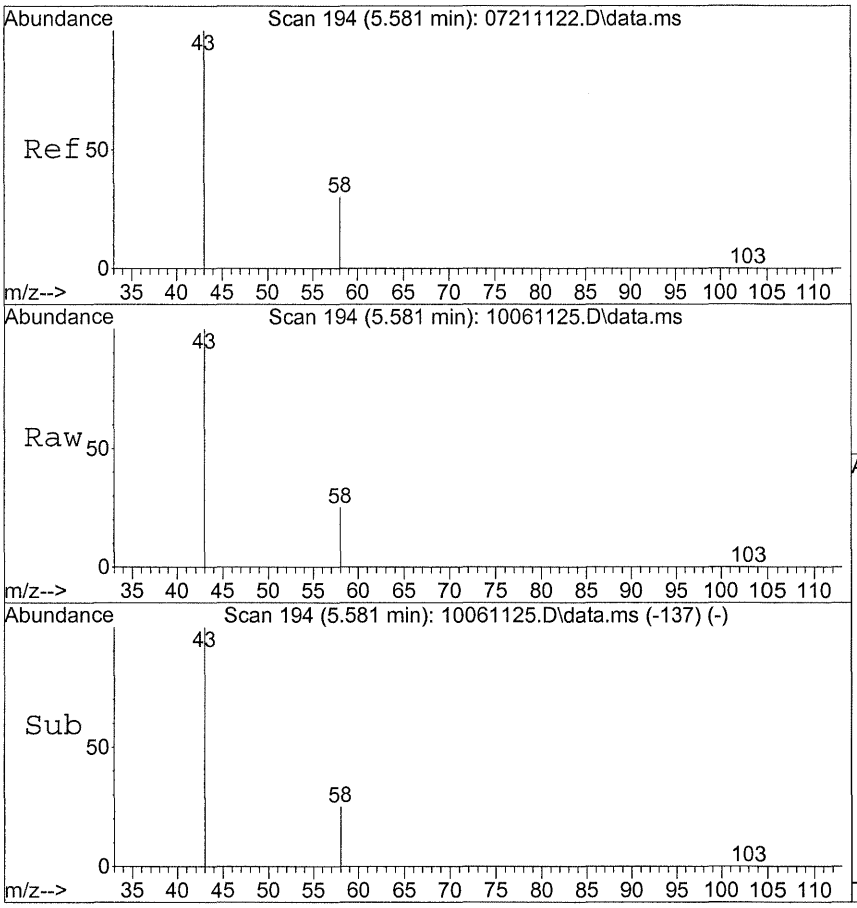


#6
Chloroethane
Concen: 12.84 pg
RT: 5.23 min Scan# 112
Delta R.T. -0.007 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 64 Resp: 1096

Ion	Ratio	Lower	Upper
64	100		
66	37.1	12.0	52.0

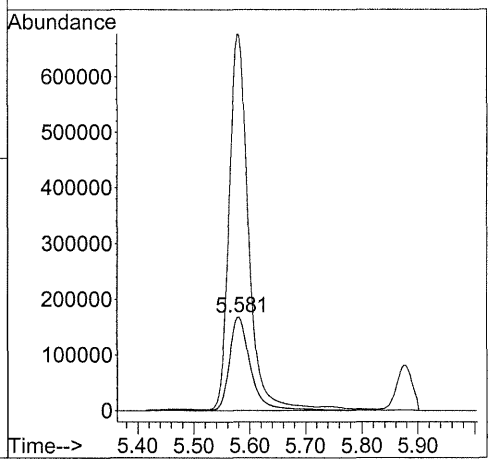


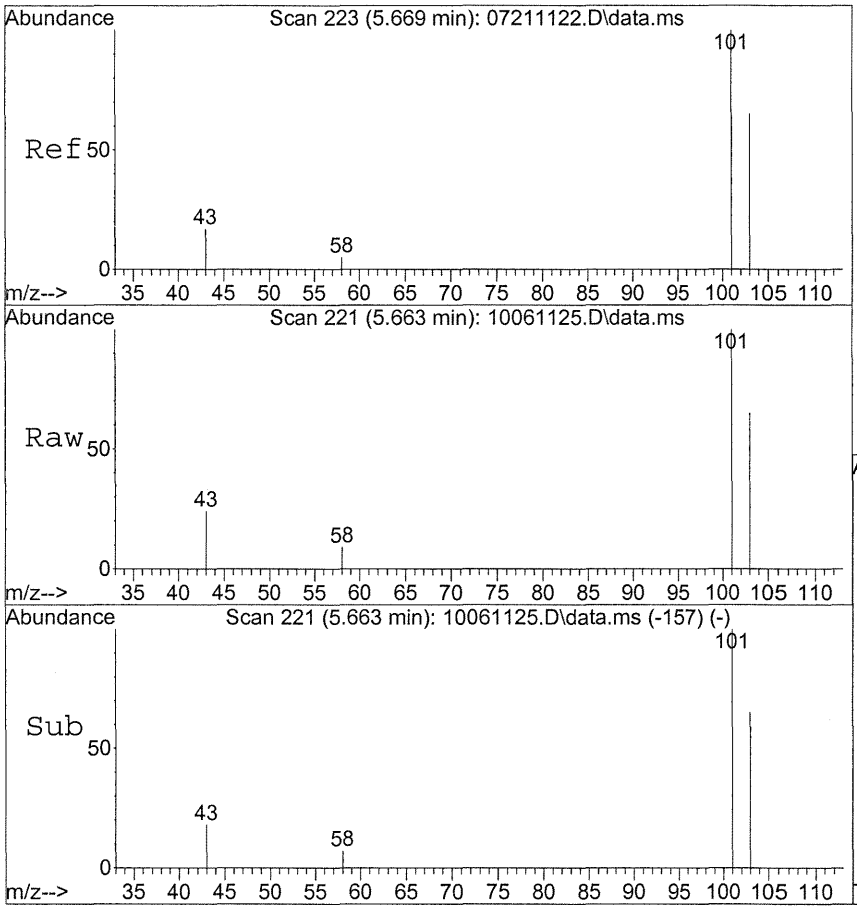


#7
Acetone
Concen: 6018.43 pg
RT: 5.58 min Scan# 194
Delta R.T. 0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 58 Resp: 438639

Ion	Ratio	Lower	Upper
58	100		
43	370.7	307.2	347.2#

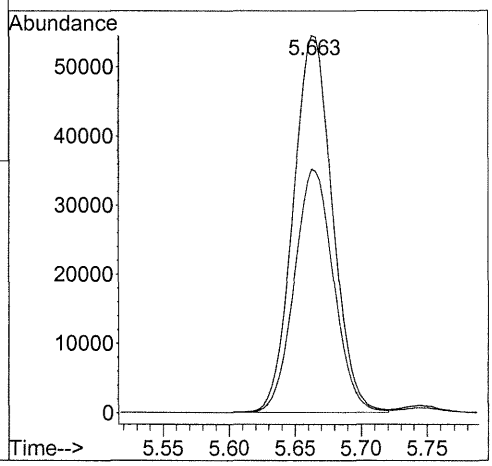


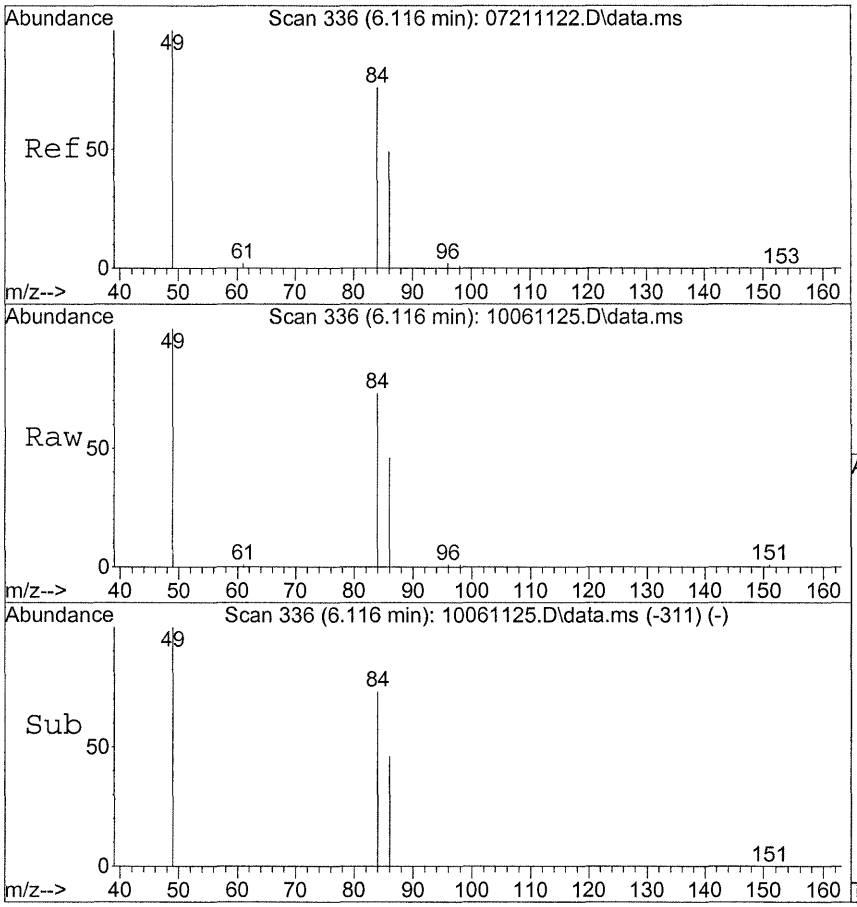


#8
Trichlorofluoromethane
Concen: 650.28 pg
RT: 5.66 min Scan# 221
Delta R.T. -0.006 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion:101 Resp: 113021

Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.6	75.8

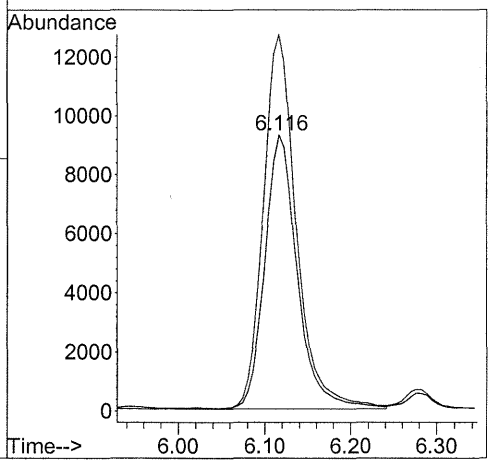


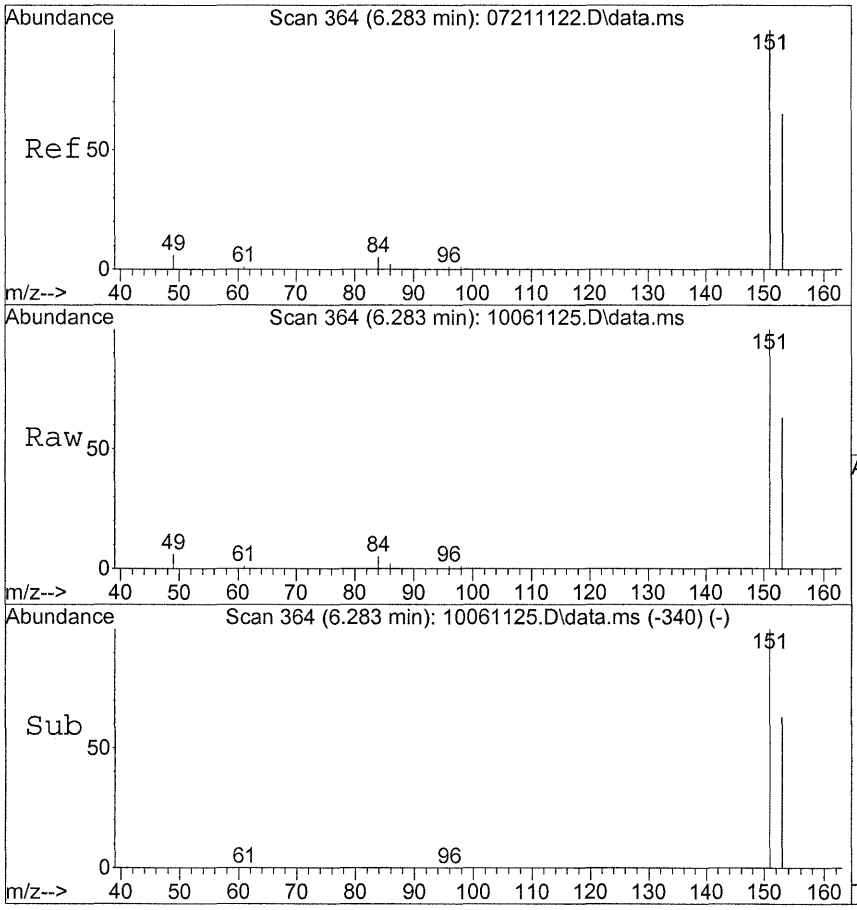


#10
Methylene Chloride
Concen: 247.66 pg
RT: 6.12 min Scan# 336
Delta R.T. 0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 84 Resp: 24493

Ion	Ratio	Lower	Upper
84	100		
49	137.4	107.9	147.9

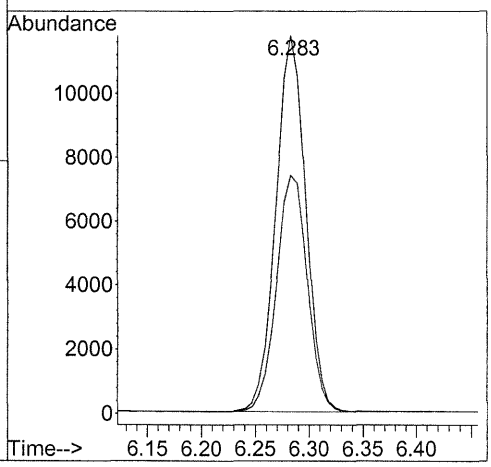


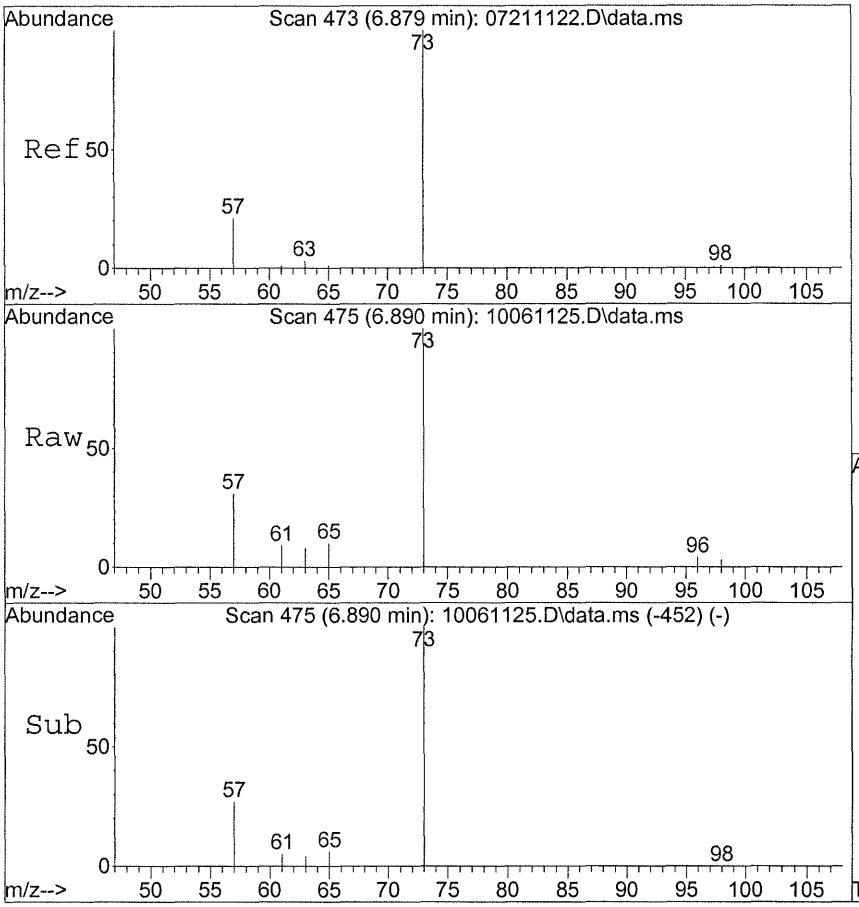


#11
Trichlorotrifluoroethane
Concen: 285.04 pg
RT: 6.28 min Scan# 364
Delta R.T. -0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion:151 Resp: 22787

Ion	Ratio	Lower	Upper
151	100		
153	64.8	44.1	84.1

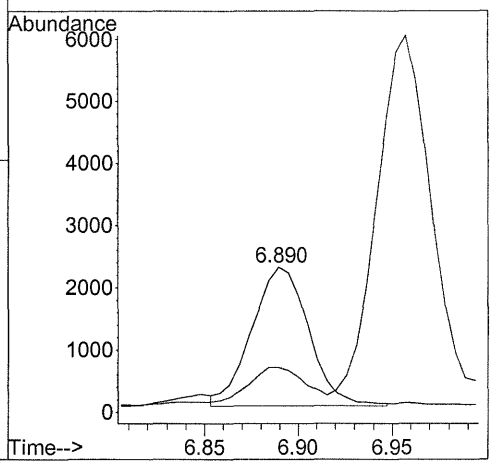


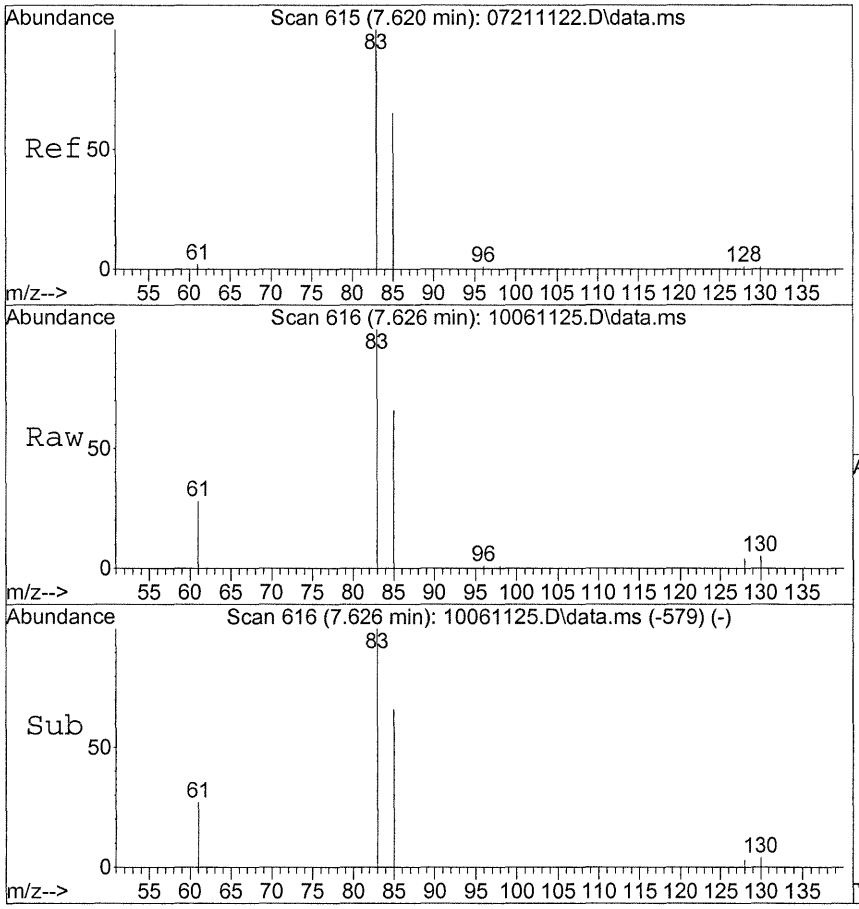


#14
Methyl tert-Butyl Ether
Concen: 15.40 pg m
RT: 6.89 min Scan# 475
Delta R.T. 0.011 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 73 Resp: 4720

Ion	Ratio	Lower	Upper
73	100		
57	29.5	1.2	41.2

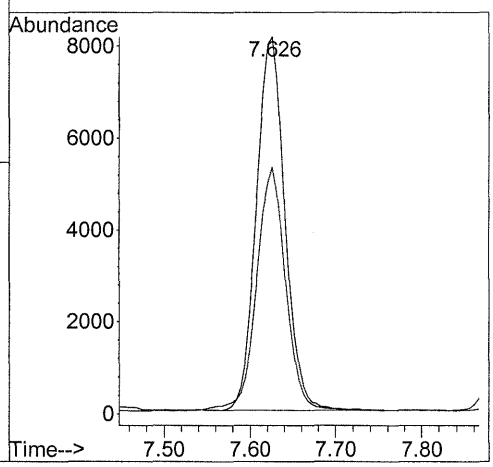


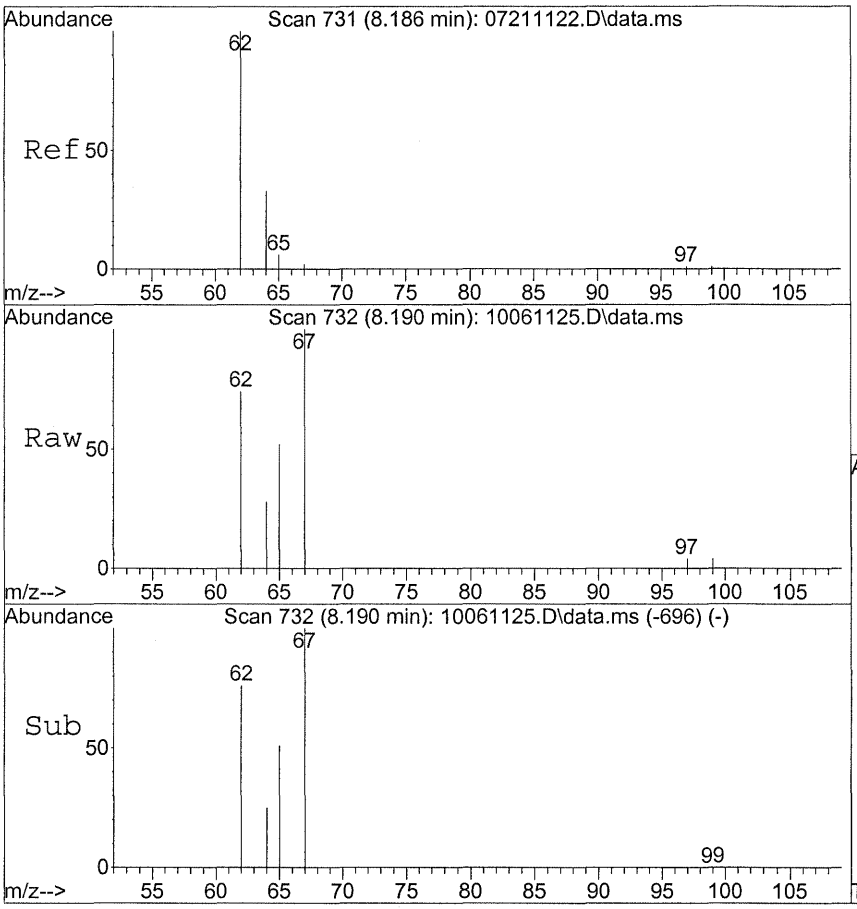


#16
Chloroform
Concen: 107.07 pg
RT: 7.63 min Scan# 616
Delta R.T. 0.006 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 83 Resp: 18808

Ion	Ratio	Lower	Upper
83	100		
85	66.8	44.4	84.4

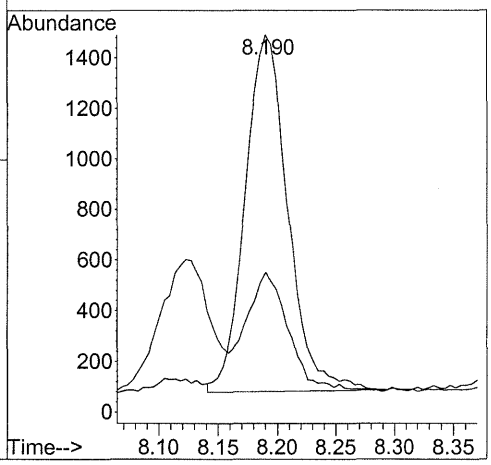


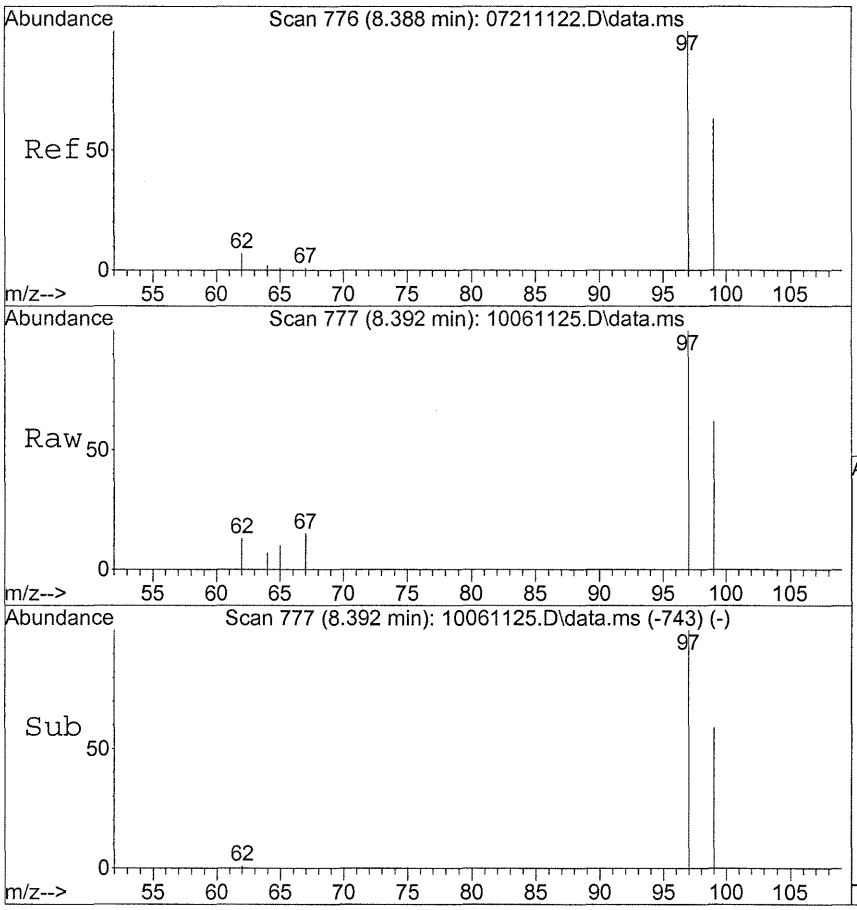


#18
1,2-Dichloroethane
Concen: 25.11 pg
RT: 8.19 min Scan# 732
Delta R.T. 0.004 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 62 Resp: 3540

Ion	Ratio	Lower	Upper
62	100		
64	33.5	10.3	50.3

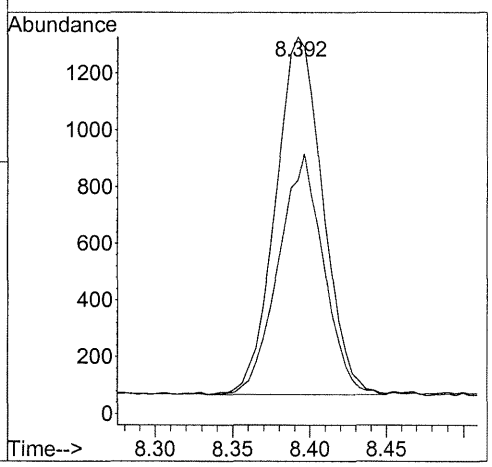


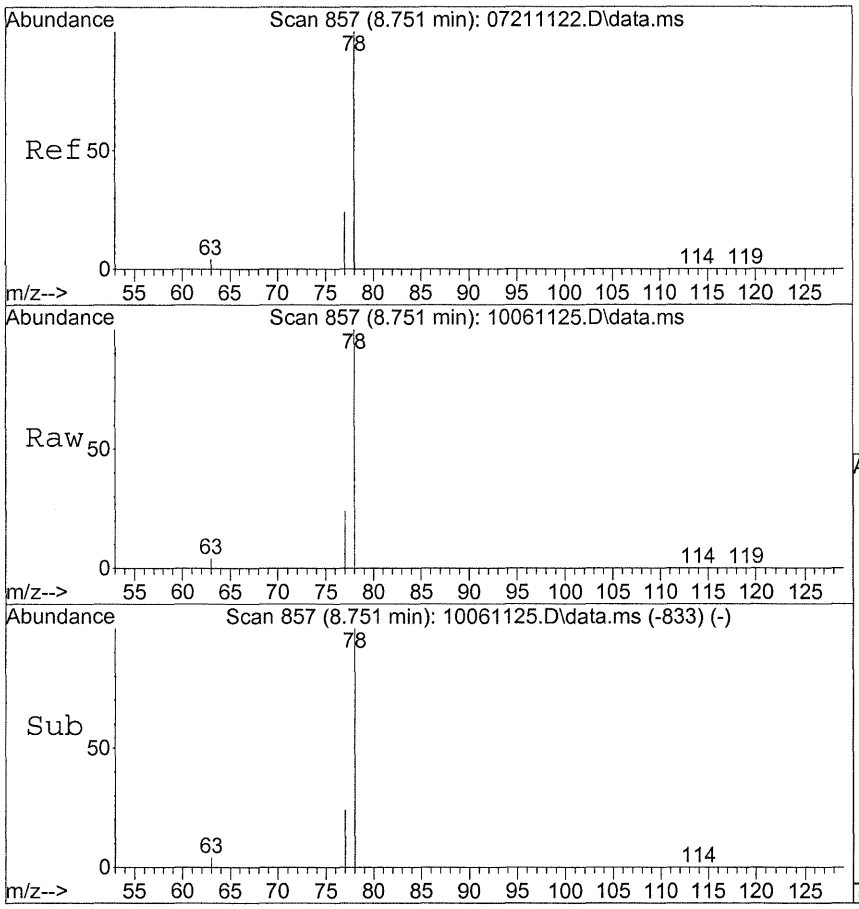


#19
1,1,1-Trichloroethane
Concen: 17.44 pg
RT: 8.39 min Scan# 777
Delta R.T. 0.004 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 97 Resp: 2716

Ion	Ratio	Lower	Upper
97	100		
99	64.4	45.2	85.2

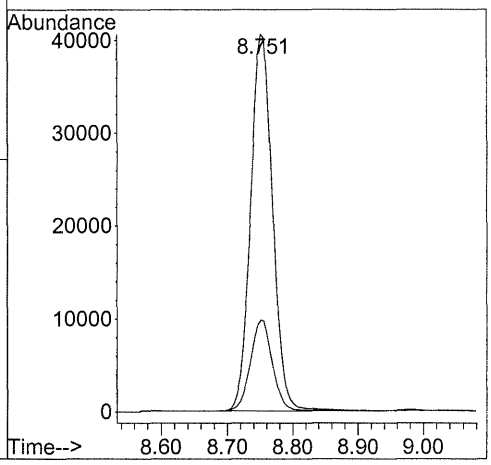


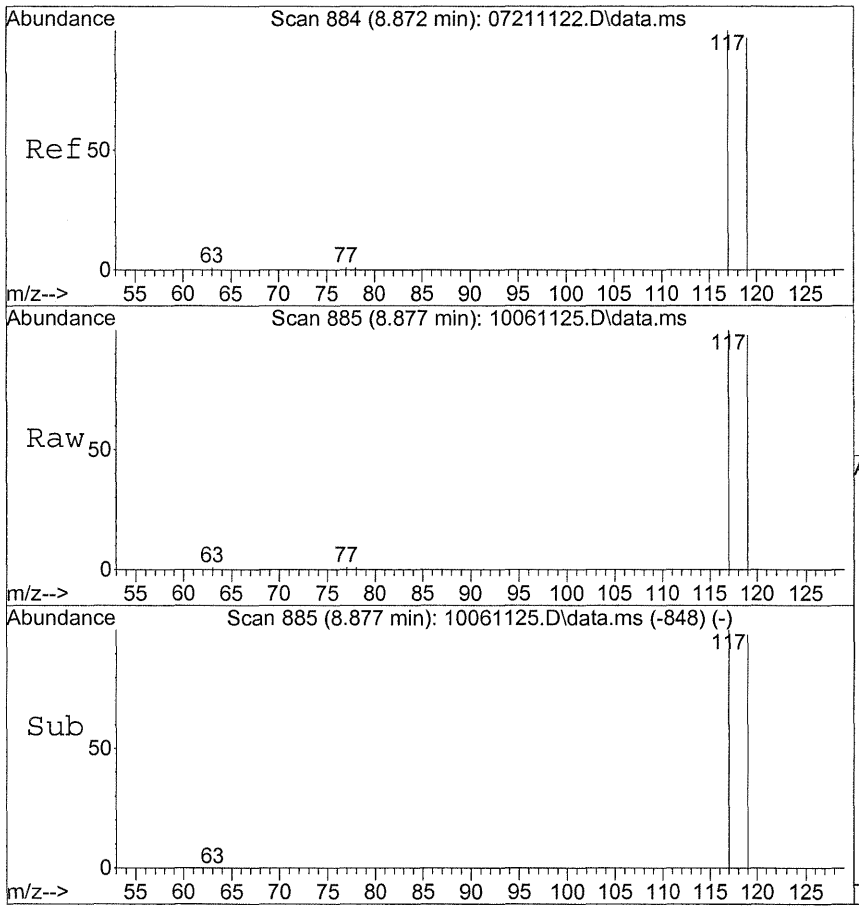


#20
Benzene
Concen: 232.65 pg
RT: 8.75 min Scan# 857
Delta R.T. 0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 78 Resp: 95098

Ion	Ratio	Lower	Upper
78	100		
77	24.0	4.0	44.0

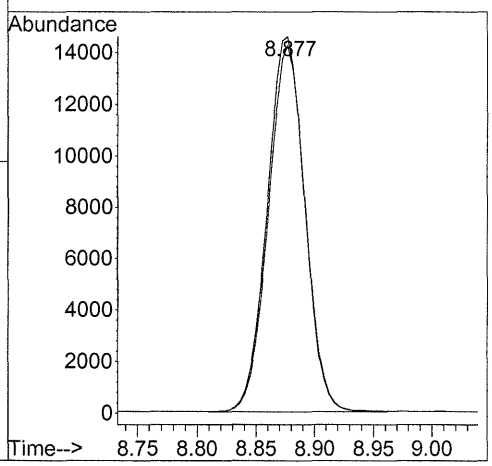


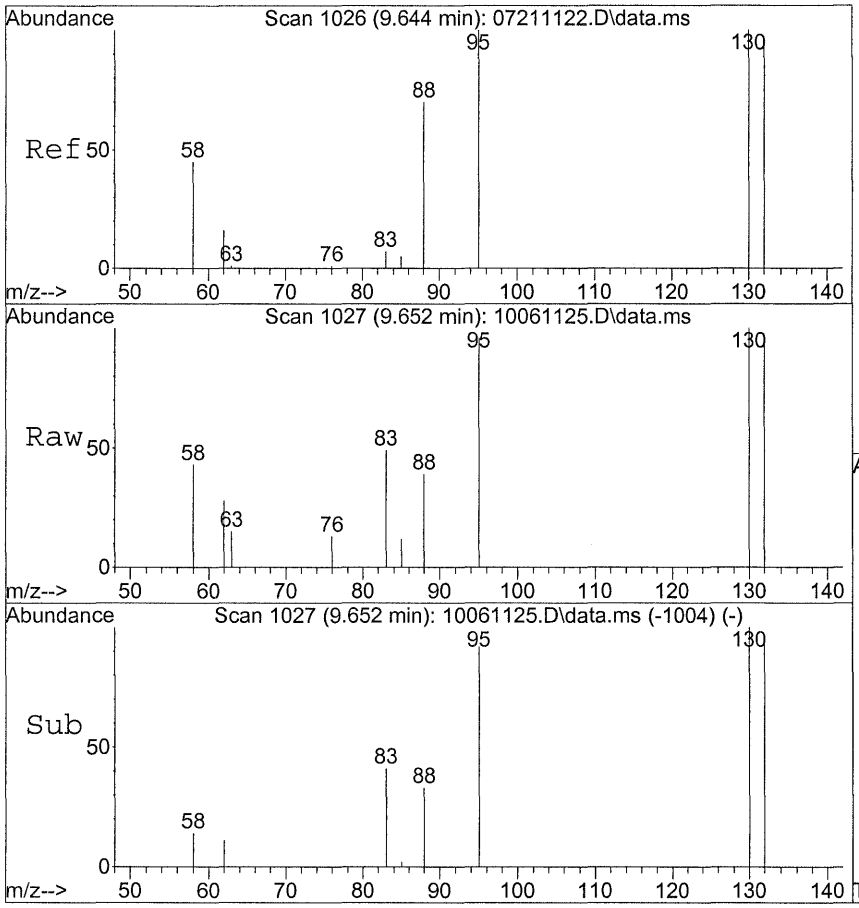


#21
Carbon Tetrachloride
Concen: 264.80 pg
RT: 8.88 min Scan# 885
Delta R.T. 0.005 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion:117 Resp: 32295

Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.5	117.5

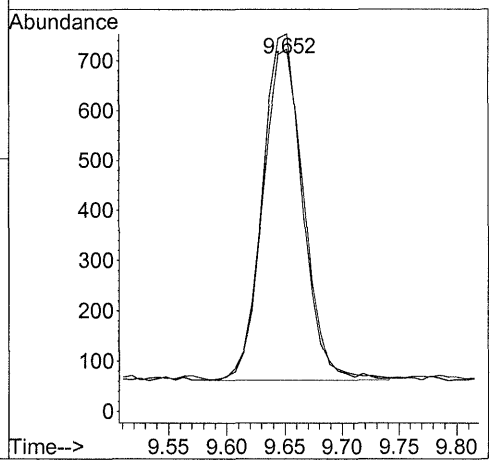


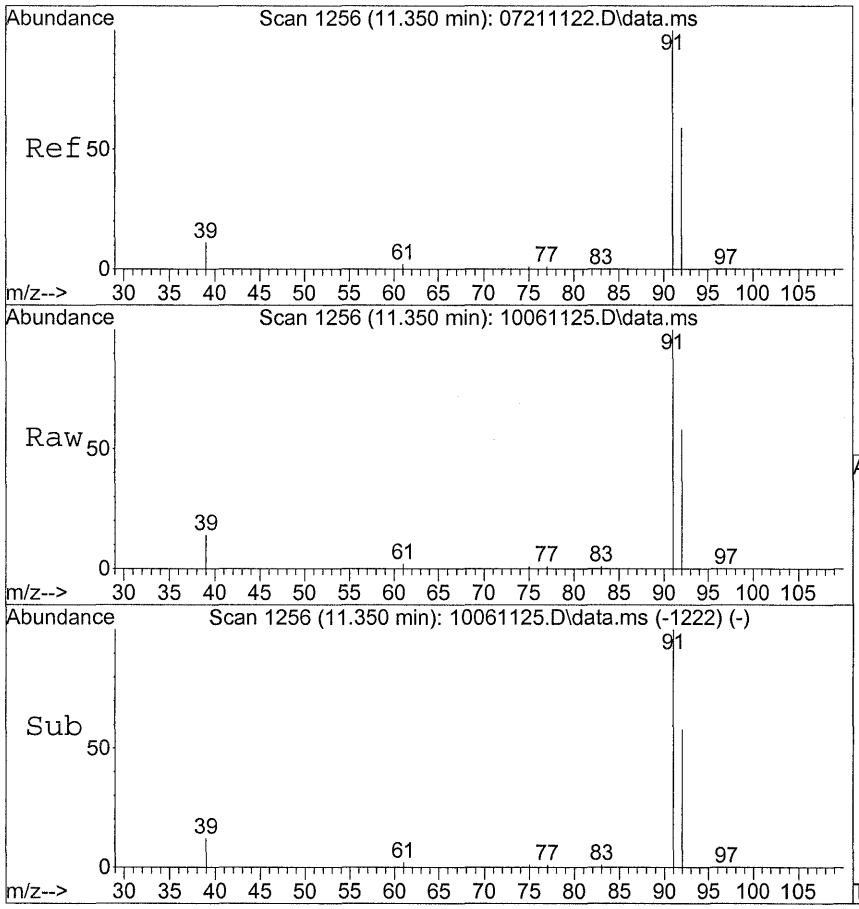


#25
Trichloroethene
Concen: 15.49 pg
RT: 9.65 min Scan# 1027
Delta R.T. 0.008 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion:130 Resp: 1649

Ion	Ratio	Lower	Upper
130	100		
132	98.8	74.7	114.7

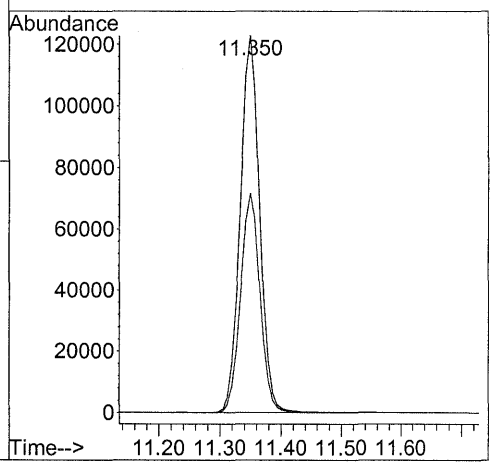


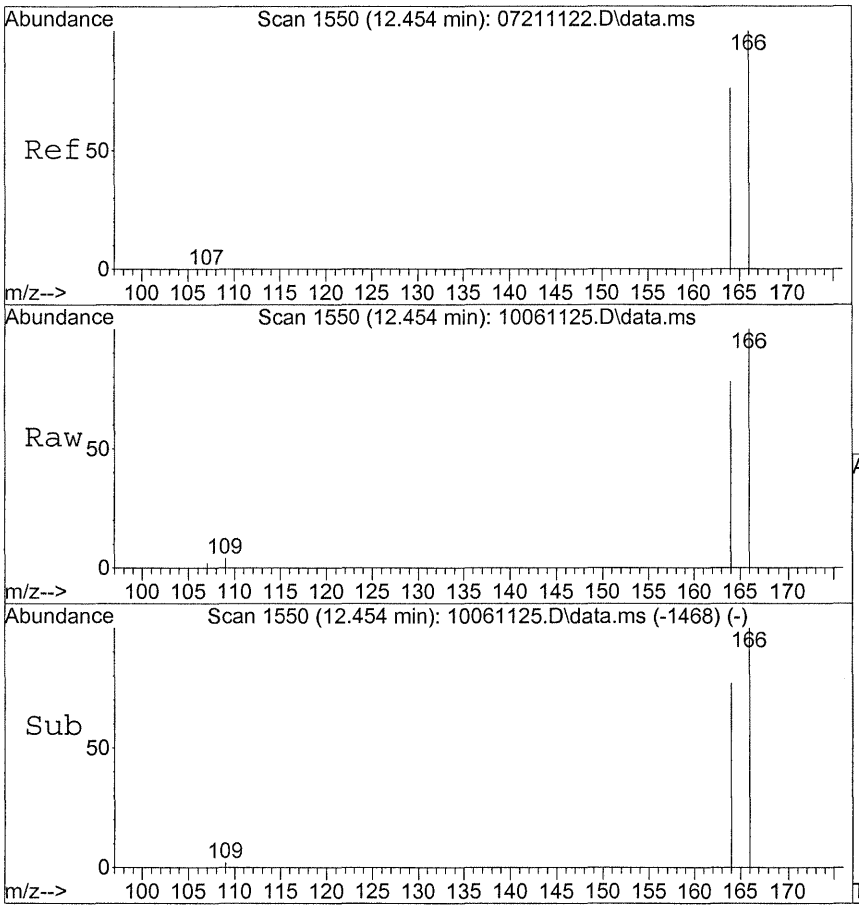


#31
Toluene
Concen: 668.43 pg
RT: 11.35 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 91 Resp: 272687

Ion	Ratio	Lower	Upper
91	100		
92	58.3	38.2	78.2

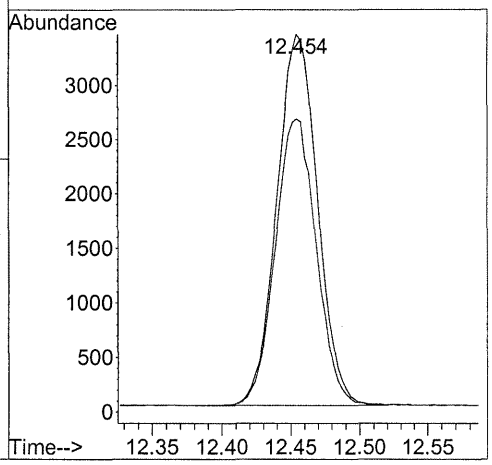


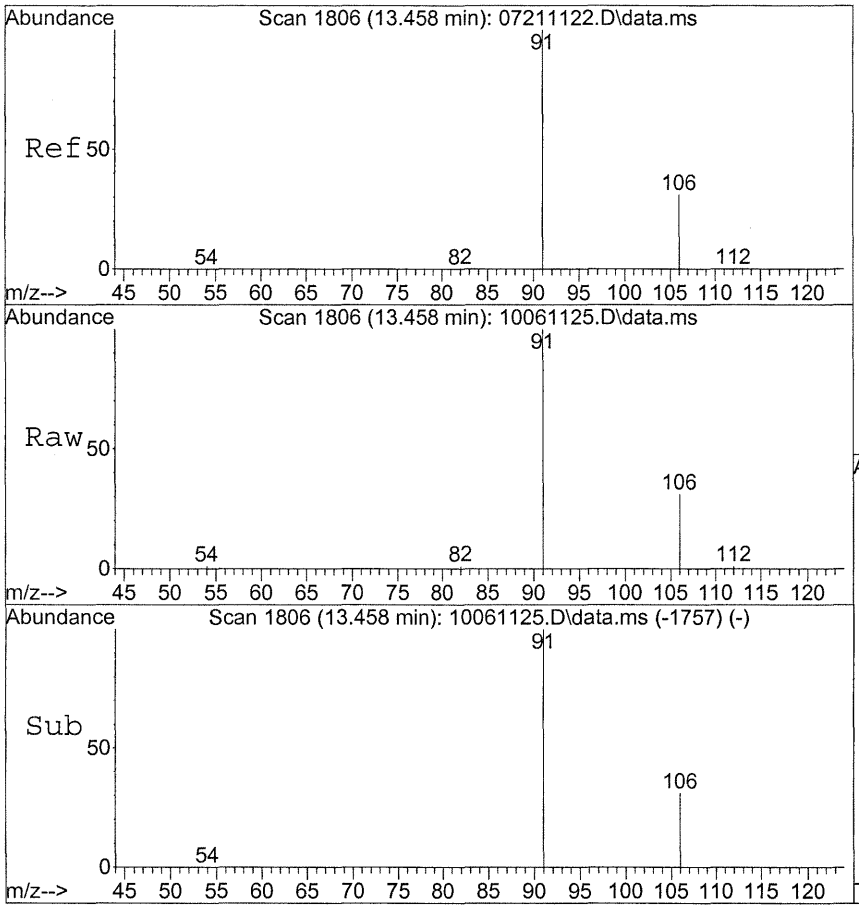


#33
Tetrachloroethene
Concen: 61.87 pg
RT: 12.45 min Scan# 1550
Delta R.T. 0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion:166 Resp: 7063

Ion	Ratio	Lower	Upper
166	100		
164	77.7	58.2	98.2

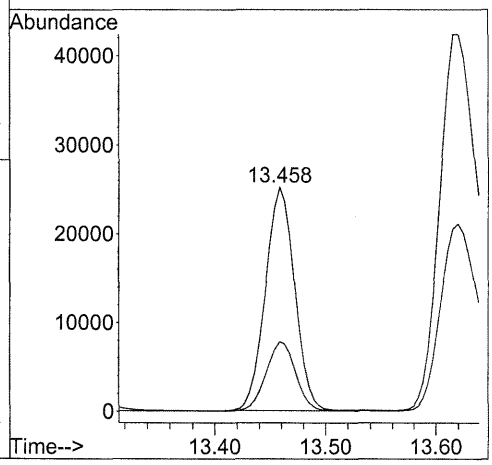


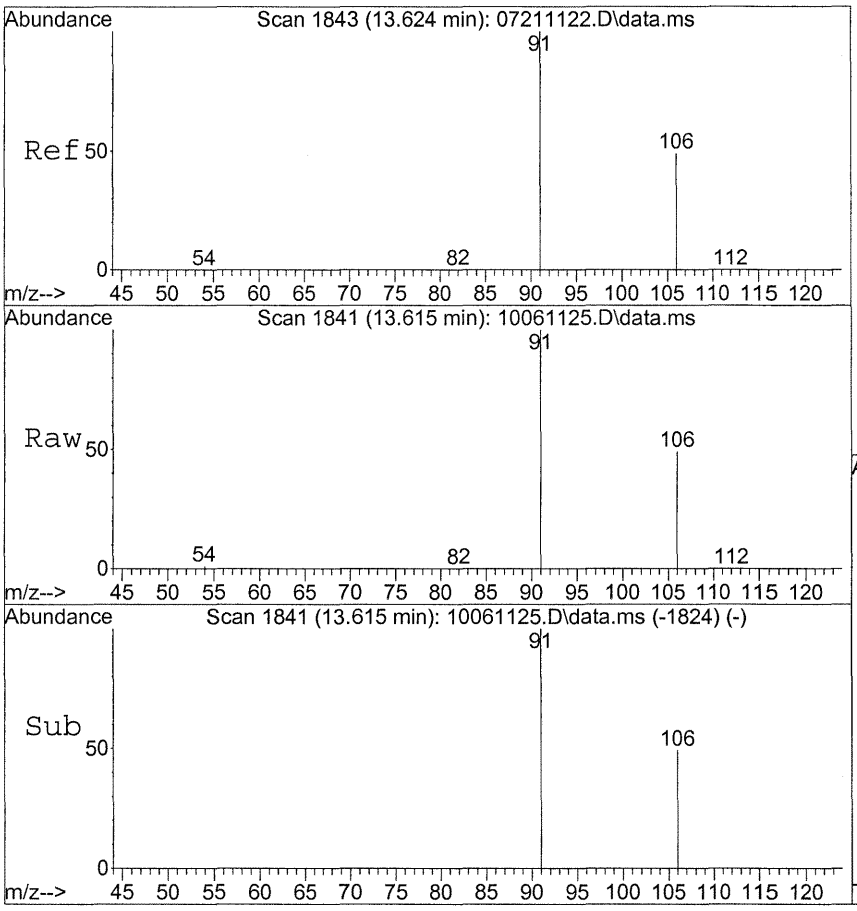


#36
Ethylbenzene
Concen: 104.48 pg
RT: 13.46 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 91 Resp: 46452

Ion	Ratio	Lower	Upper
91	100		
106	30.8	11.9	51.9

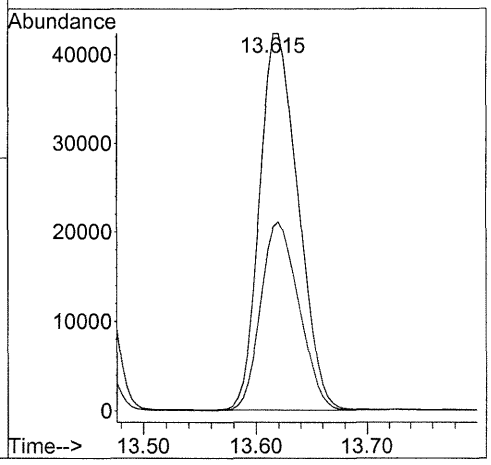


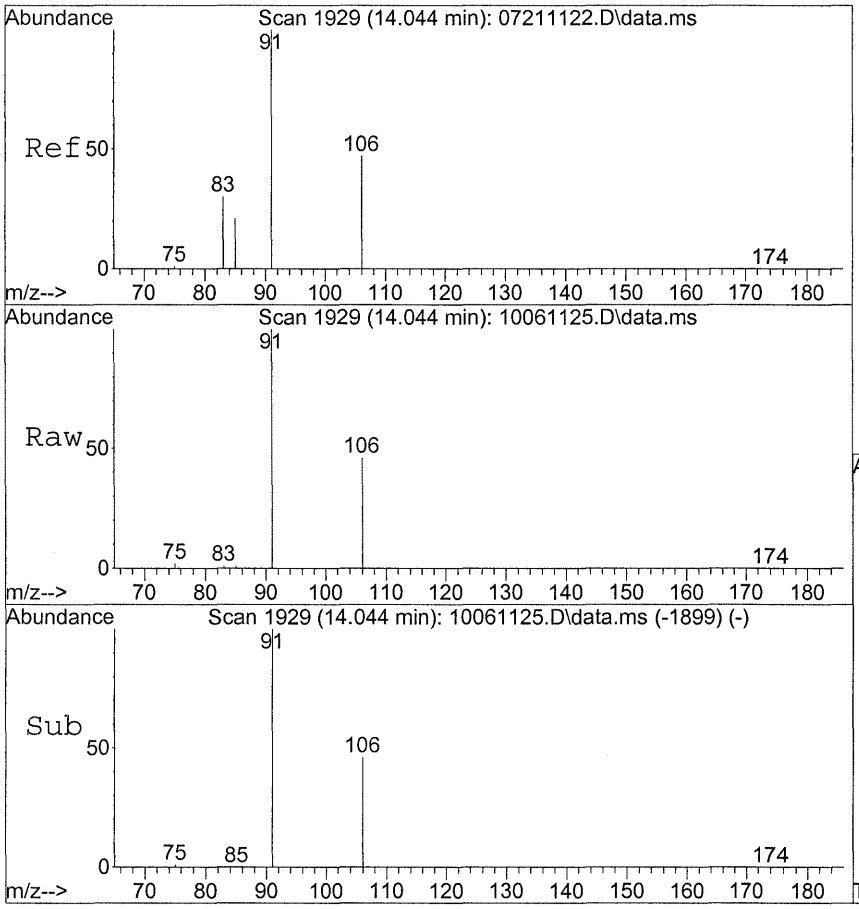


#37
m,p-Xylene
Concen: 280.78 pg
RT: 13.62 min Scan# 1841
Delta R.T. -0.009 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 91 Resp: 101640

Ion	Ratio	Lower	Upper
91	100		
106	49.4	30.3	70.3

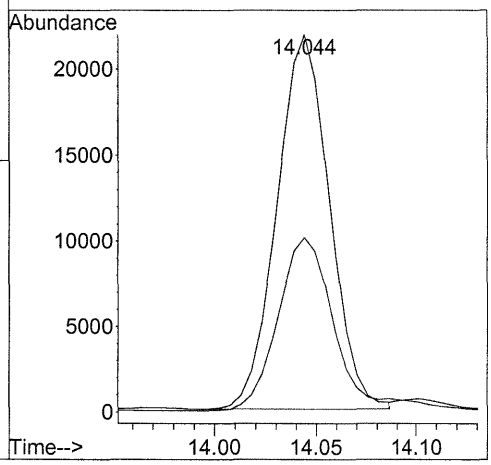


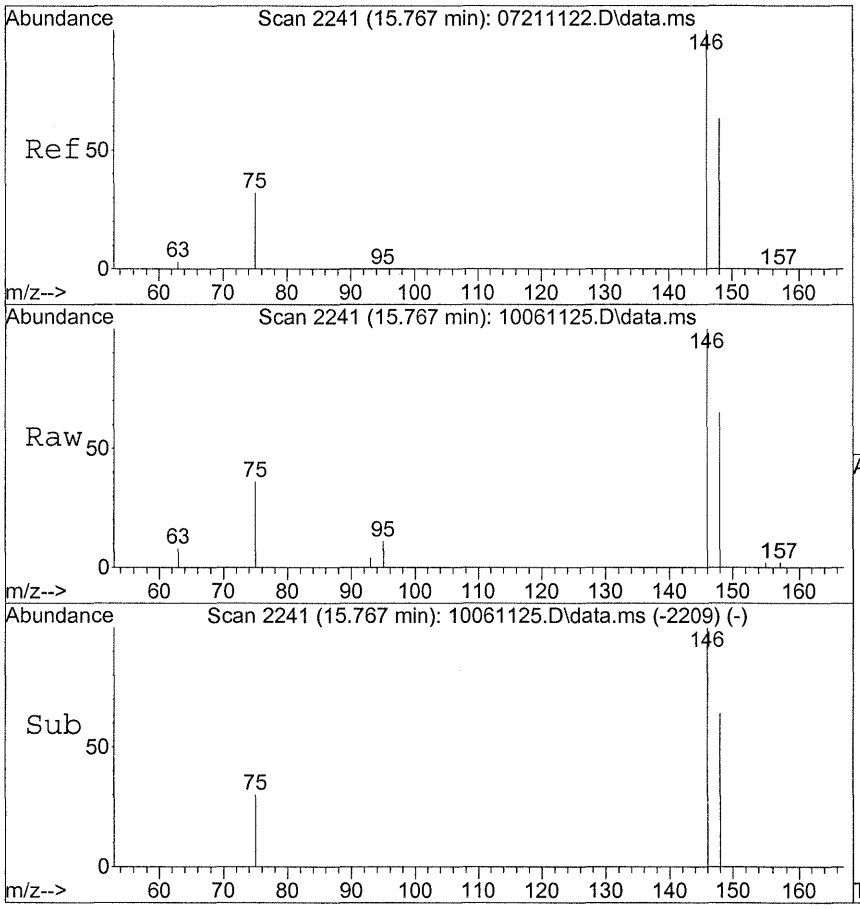


#38
o-Xylene
Concen: 107.04 pg
RT: 14.04 min Scan# 1929
Delta R.T. 0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion: 91 Resp: 39529

Ion	Ratio	Lower	Upper
91	100		
106	51.2	28.4	68.4

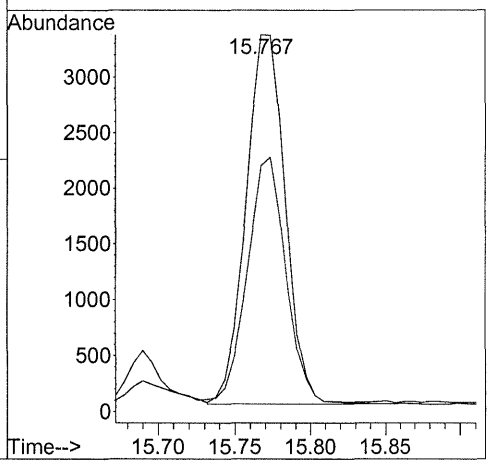


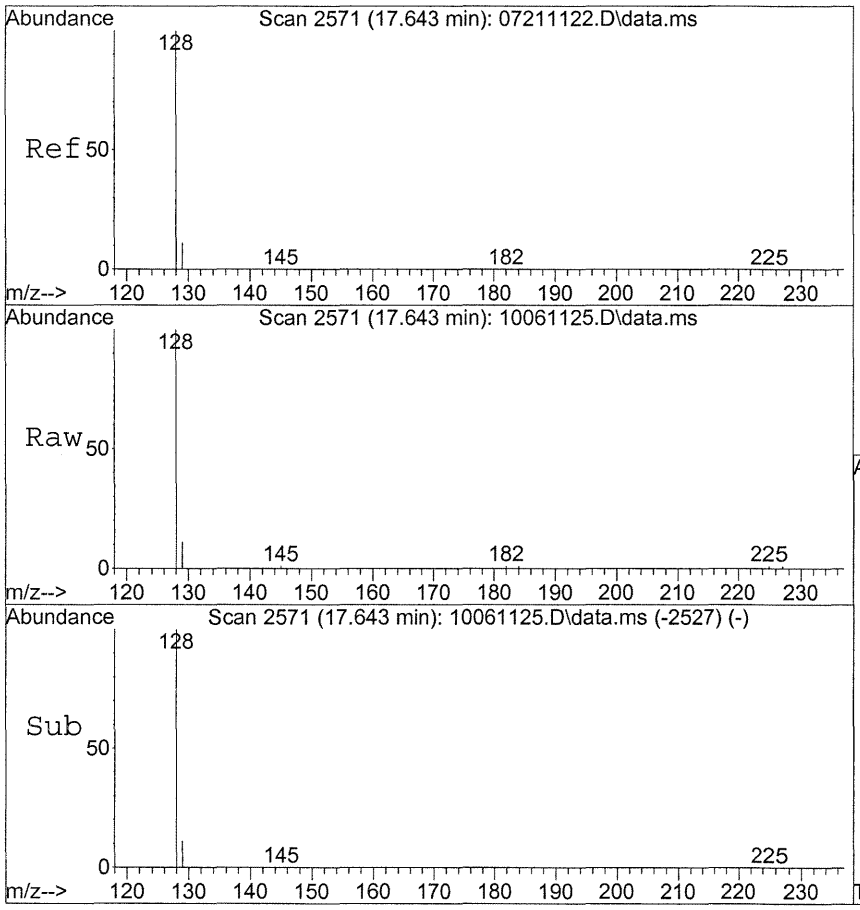


#42
1,4-Dichlorobenzene
Concen: 27.06 pg
RT: 15.77 min Scan# 2241
Delta R.T. 0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion:146 Resp: 5963

Ion	Ratio	Lower	Upper
146	100		
148	64.6	42.9	82.9

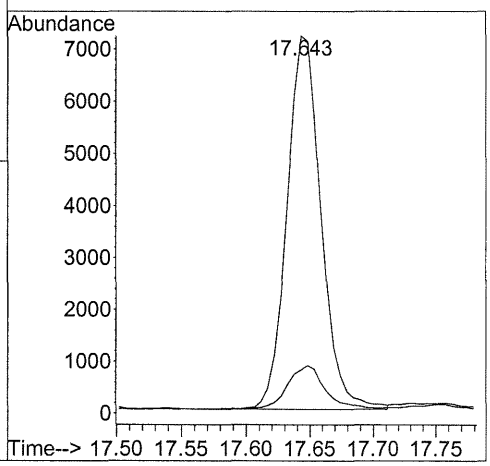




#45
Naphthalene
Concen: 24.92 pg
RT: 17.64 min Scan# 2571
Delta R.T. 0.000 min
Lab File: 10061125.D
Acq: 6 Oct 2011 20:35

Tgt Ion:128 Resp: 13506

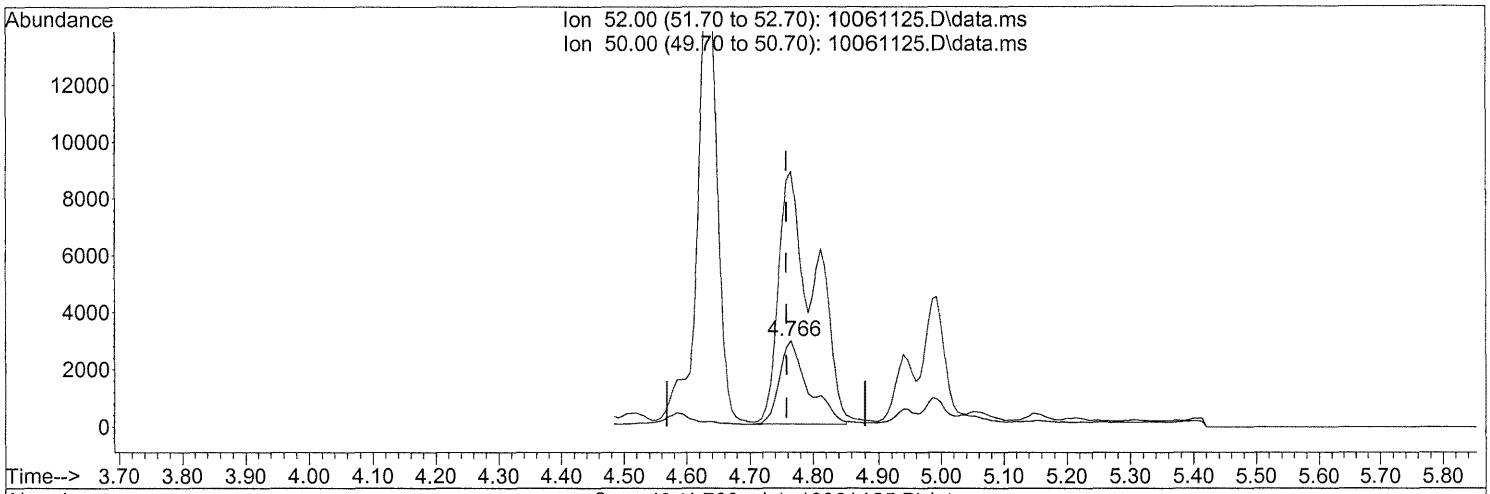
Ion	Ratio	Lower	Upper
128	100		
129	12.9	0.0	30.9

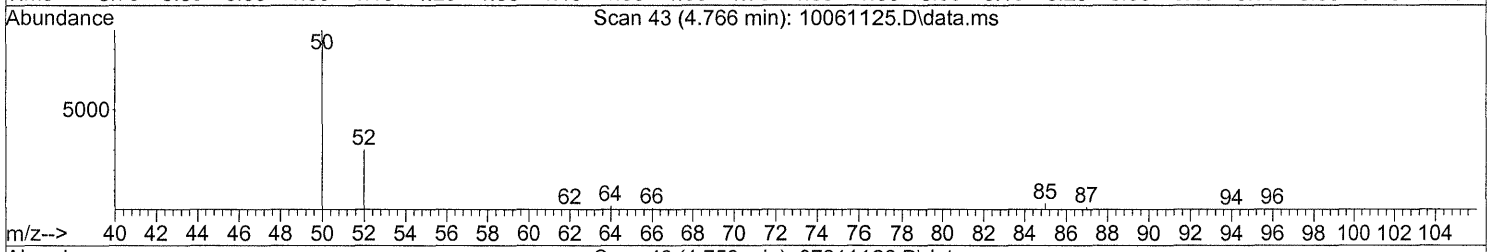


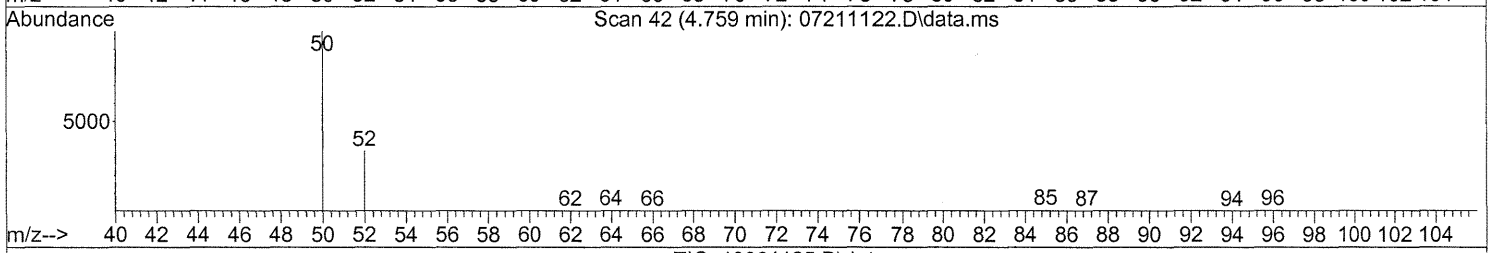
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:07:12 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061125.D\data.ms

(3) Chloromethane (T)

4.766min (+0.007) 199.33pg

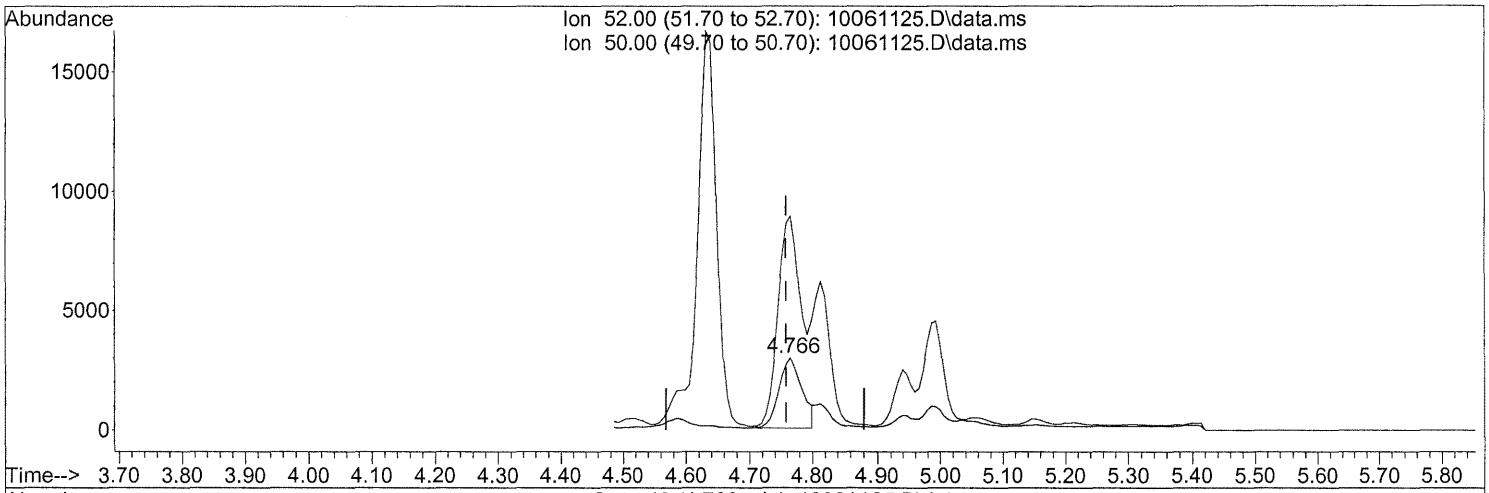
response 9125

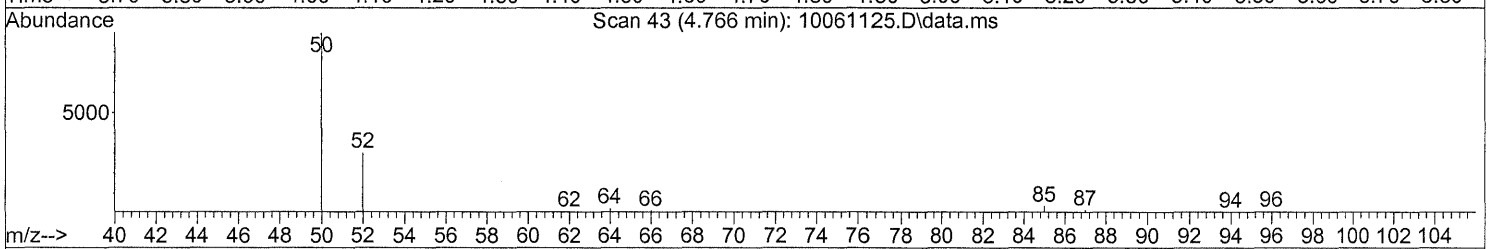
Ion	Exp%	Act%
52.00	100	100
50.00	305.30	243.90#
0.00	0.00	0.00
0.00	0.00	0.00

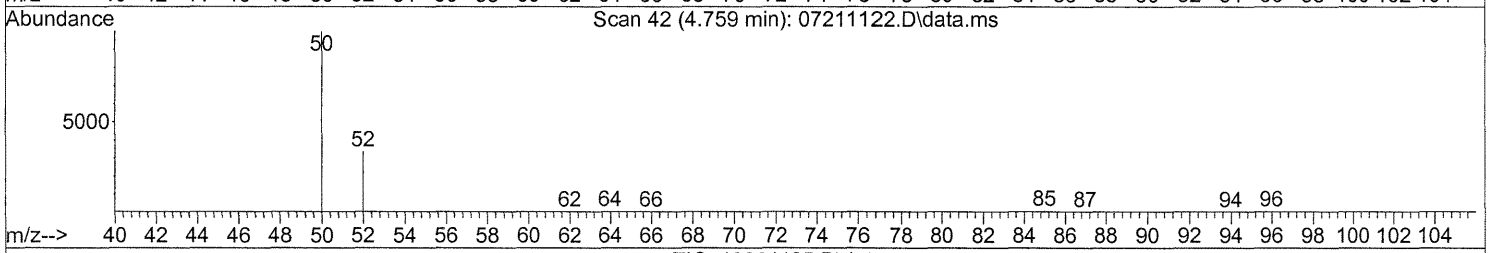
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:07:12 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061125.D\data.ms

(3) Chloromethane (T)

4.766min (+0.007) 163.51pg m

response 7485

Ion	Exp%	Act%
52.00	100	100
50.00	305.30	297.34
0.00	0.00	0.00
0.00	0.00	0.00

IPC

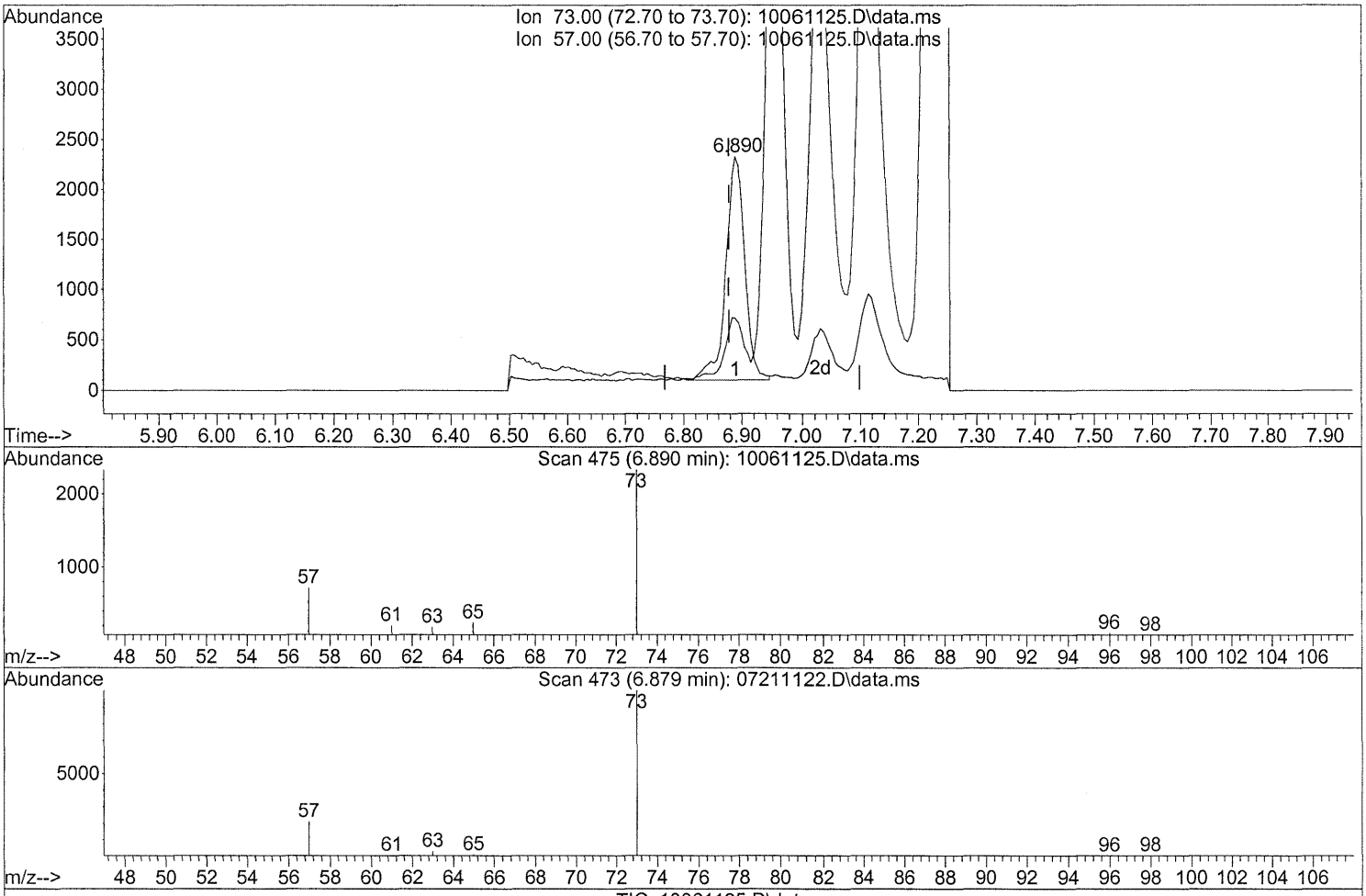
DA 10/7/11

LM 10/7/11

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:07:12 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061125.D\data.ms

(14) Methyl tert-Butyl Ether (T)

6.890min (+0.011) 16.27pg

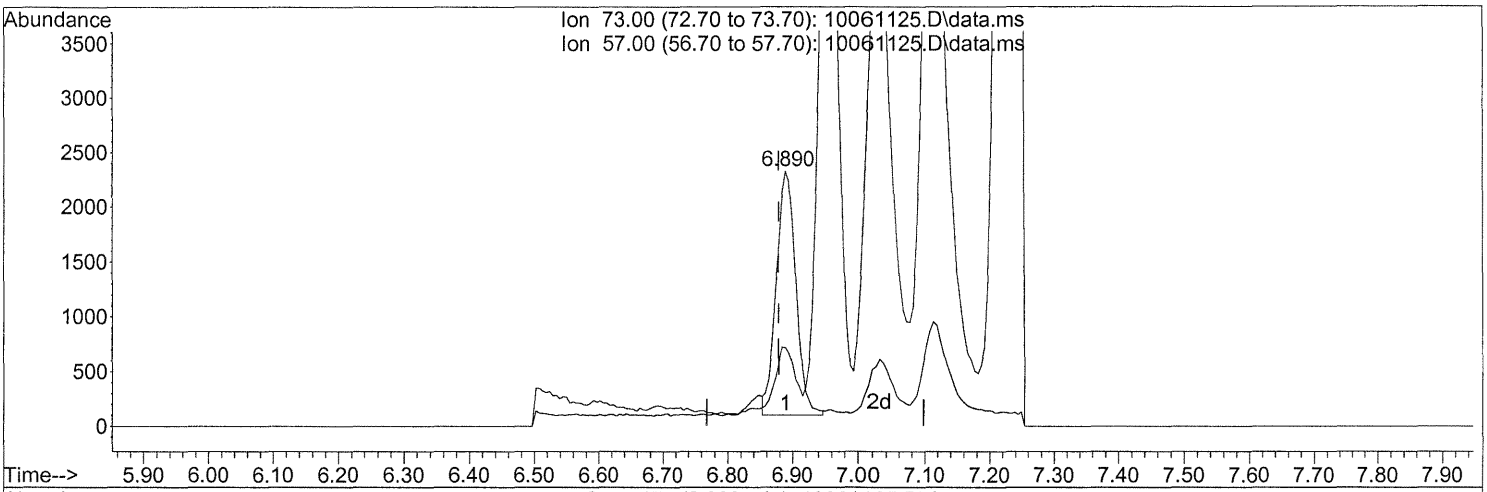
response 4987

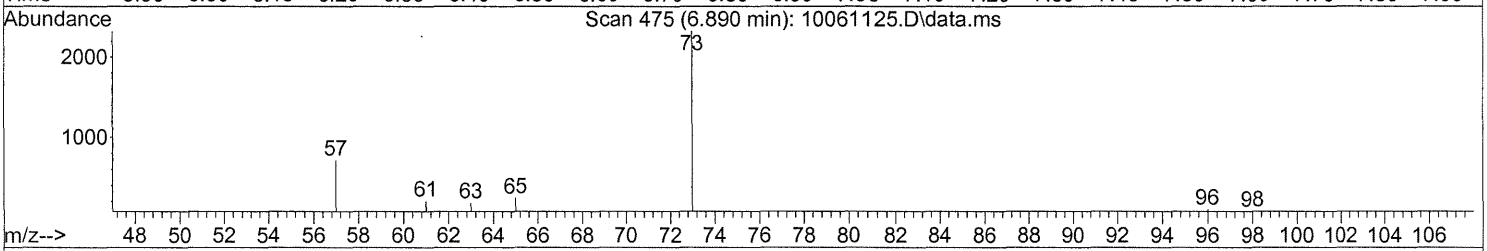
Ion	Exp%	Act%
73.00	100	100
57.00	21.20	27.93
0.00	0.00	0.00
0.00	0.00	0.00

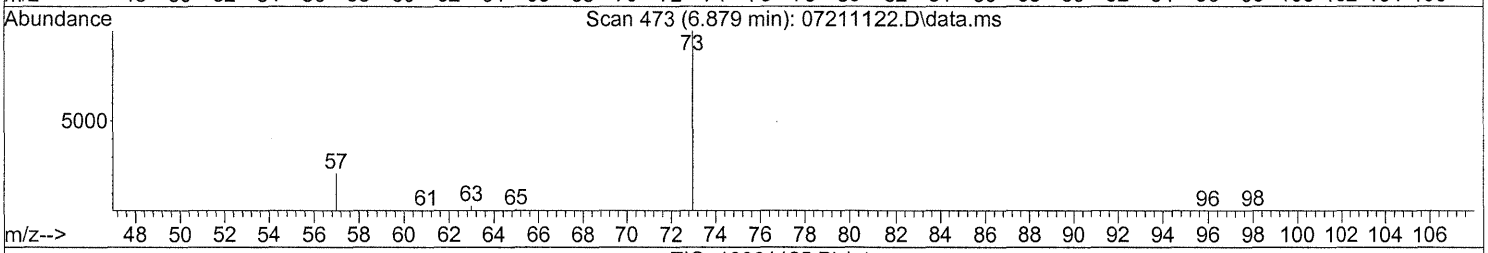
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:07:12 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061125.D\data.ms

(14) Methyl tert-Butyl Ether (T)

6.890min (+0.011) 15.40pg m

response 4720

Ion	Exp%	Act%
73.00	100	100
57.00	21.20	29.51
0.00	0.00	0.00
0.00	0.00	0.00

IPC

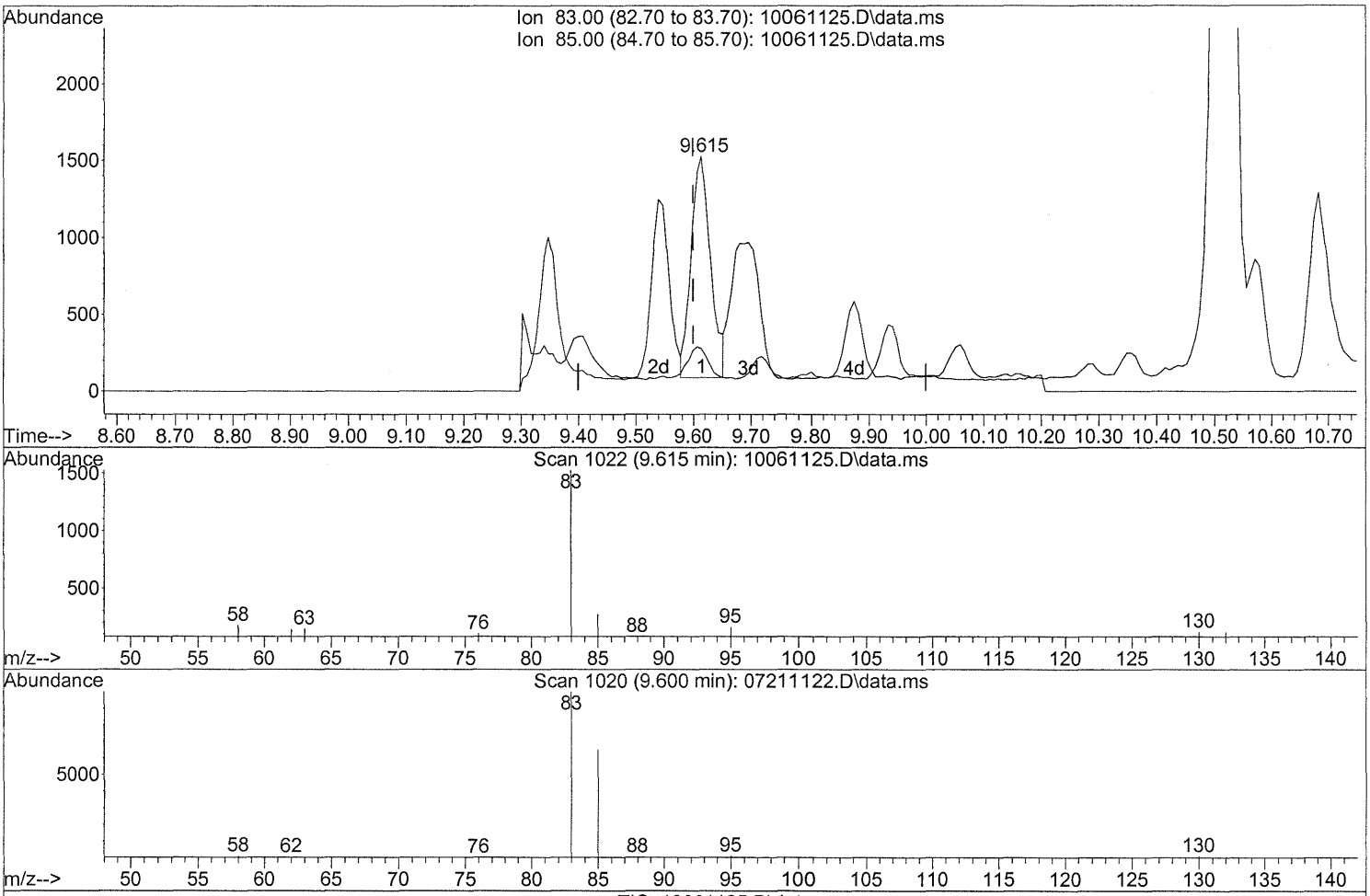
10/7/11

10/7/11

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:07:12 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061125.D\data.ms

(24) Bromodichloromethane (T)

9.615min (+0.015) 27.43pg

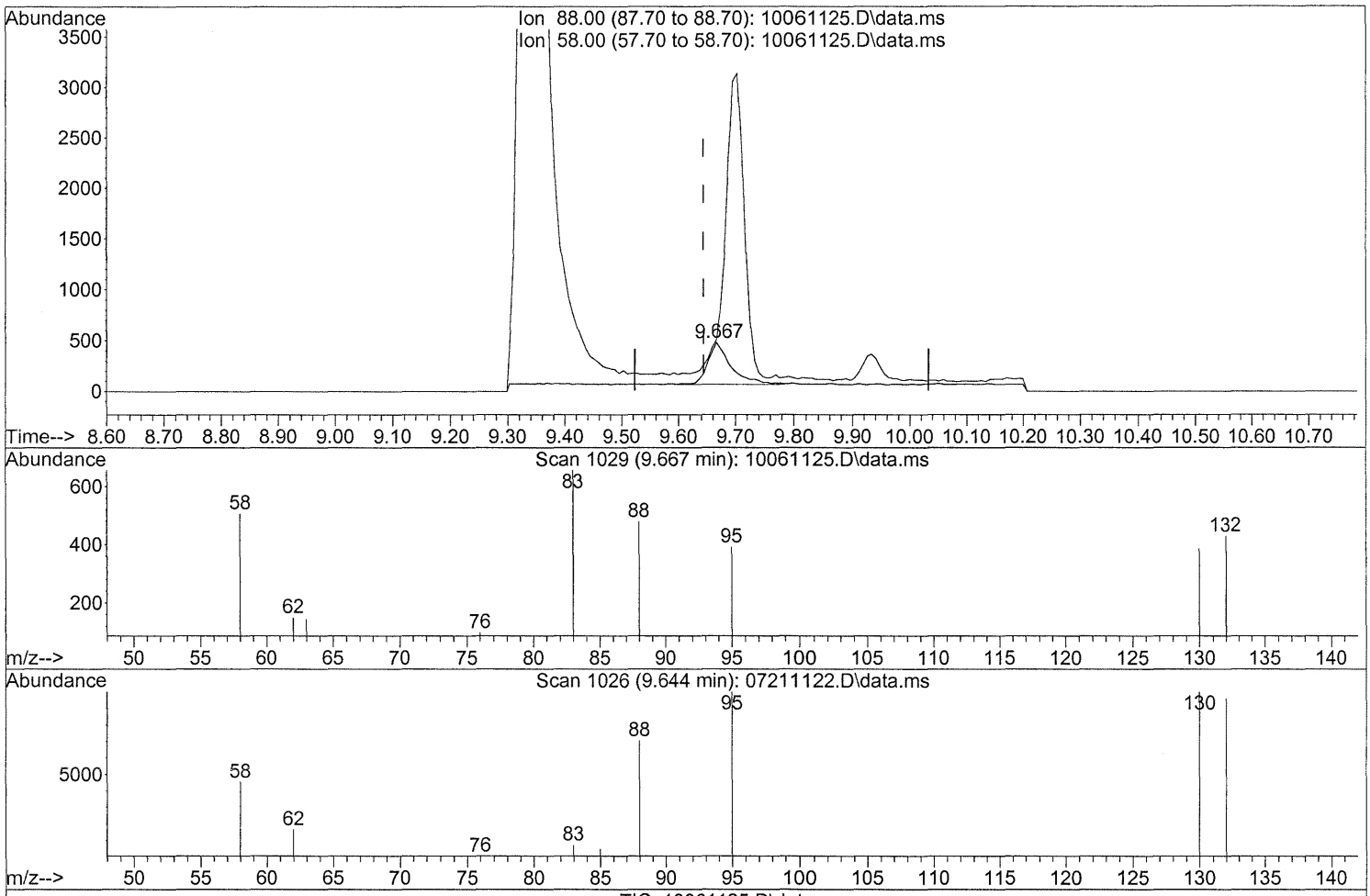
response 3420

Ion	Exp%	Act%
83.00	100	100
85.00	63.50	15.61#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:07:12 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061125.D\data.ms

(26) 1,4-Dioxane (T)

9.667min (+0.023) 14.31pg

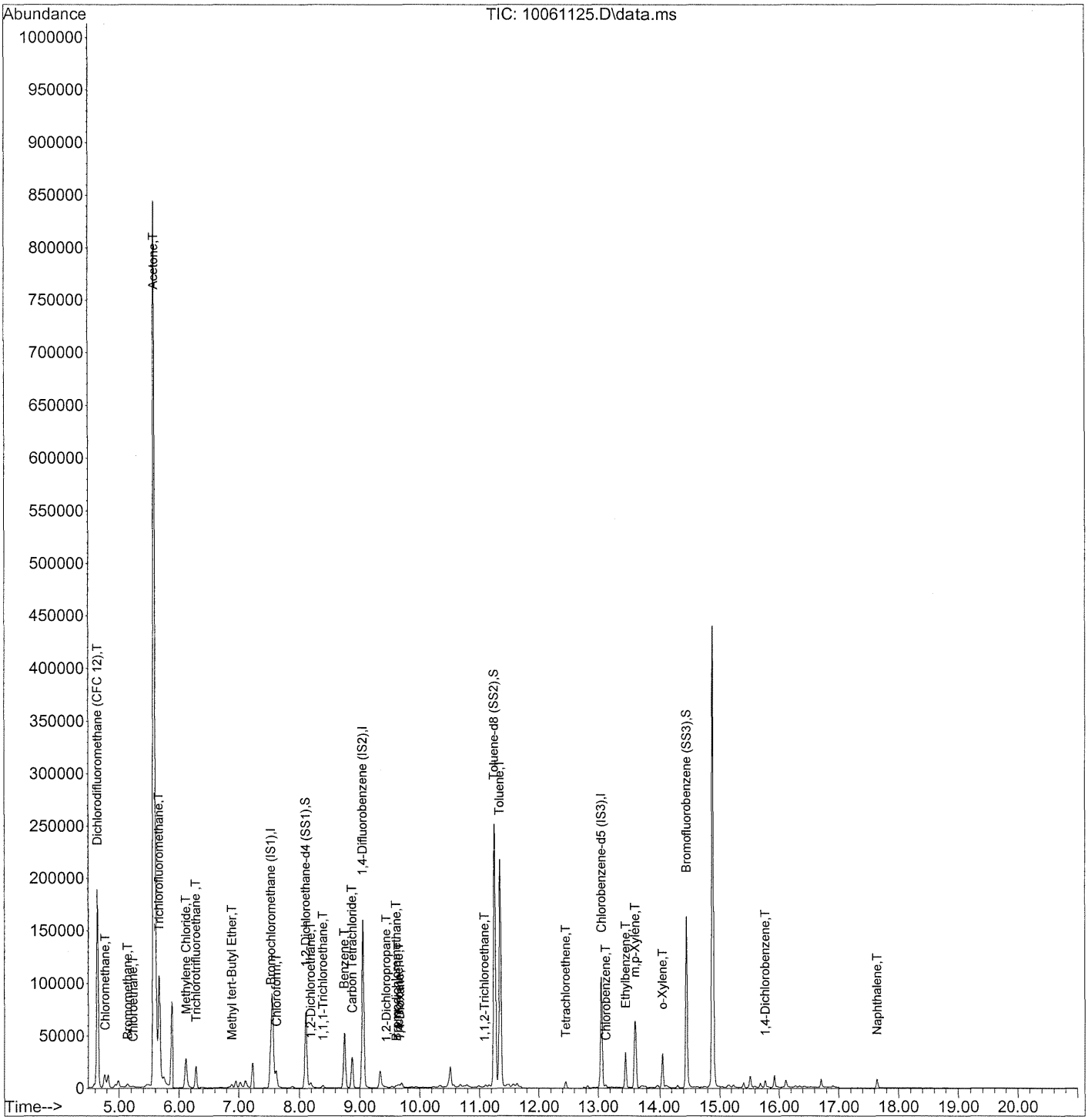
response 1150

Ion	Exp%	Act%
88.00	100	100
58.00	63.80	598.52#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:07:12 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 06:07:12 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	63221	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	302884	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	148267	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.11	65	121228	980.79	pg		0.00
Spiked Amount 1000.000			Recovery = 98.08%				
30) Toluene-d8 (SS2)	11.25	98	331390	1006.45	pg		0.00
Spiked Amount 1000.000			Recovery = 100.65%				
40) Bromofluorobenzene (SS3)	14.45	174	117204	992.84	pg		0.00
Spiked Amount 1000.000			Recovery = 99.28%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.64	85	239308	1289.18	pg		98
3) Chloromethane	4.77	52	9125	199.33	pg	#	69
4) Vinyl Chloride	4.90	62	291	N.D.			
5) Bromomethane	5.14	94	3704	50.50	pg		97
6) Chloroethane	5.23	64	1096	12.84	pg		91
7) Acetone	5.58	58	438639	6018.43	pg	#	79
8) Trichlorofluoromethane	5.66	101	113021	650.28	pg		98
9) 1,1-Dichloroethene	6.05	96	160	N.D.			
10) Methylene Chloride	6.12	84	24493	247.66	pg		92
11) Trichlorotrifluoroethane	6.28	151	22787	285.04	pg		99
12) trans-1,2-Dichloroethene	6.71	96	155	N.D.			
13) 1,1-Dichloroethane	6.85	63	512	N.D.			
14) Methyl tert-Butyl Ether	6.89	73	4987	16.27	pg		86
15) cis-1,2-Dichloroethene	7.41	96	34	N.D.			
16) Chloroform	7.63	83	18808	107.07	pg		97
18) 1,2-Dichloroethane	8.19	62	3540	25.11	pg		94
19) 1,1,1-Trichloroethane	8.39	97	2716	17.44	pg		99
20) Benzene	8.75	78	95098	232.65	pg		100
21) Carbon Tetrachloride	8.88	117	32295	264.80	pg		99
23) 1,2-Dichloropropane	9.44	63	527	5.53	pg		96
24) Bromodichloromethane	9.61	83	3420	27.43	pg	#	39
25) Trichloroethene	9.65	130	1649	15.49	pg		96
26) 1,4-Dioxane	9.67	88	1150	14.31	pg	#	1
27) cis-1,3-Dichloropropene	10.43	75	495	N.D.			
28) trans-1,3-Dichloropropene	10.93	75	330	N.D.			
29) 1,1,2-Trichloroethane	11.08	83	500	6.59	pg	#	9
31) Toluene	11.35	91	272687	668.43	pg		100
32) 1,2-Dibromoethane	11.99	107	14	N.D.			
33) Tetrachloroethene	12.45	166	7063	61.87	pg		99
35) Chlorobenzene	13.13	112	1919	7.59	pg	#	61

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061125.D
Acq On : 6 Oct 2011 20:35
Operator : KR
Sample : P1103662-008 (1000mL)
Misc :
ALS Vial : 10 Sample Multiplier: 1

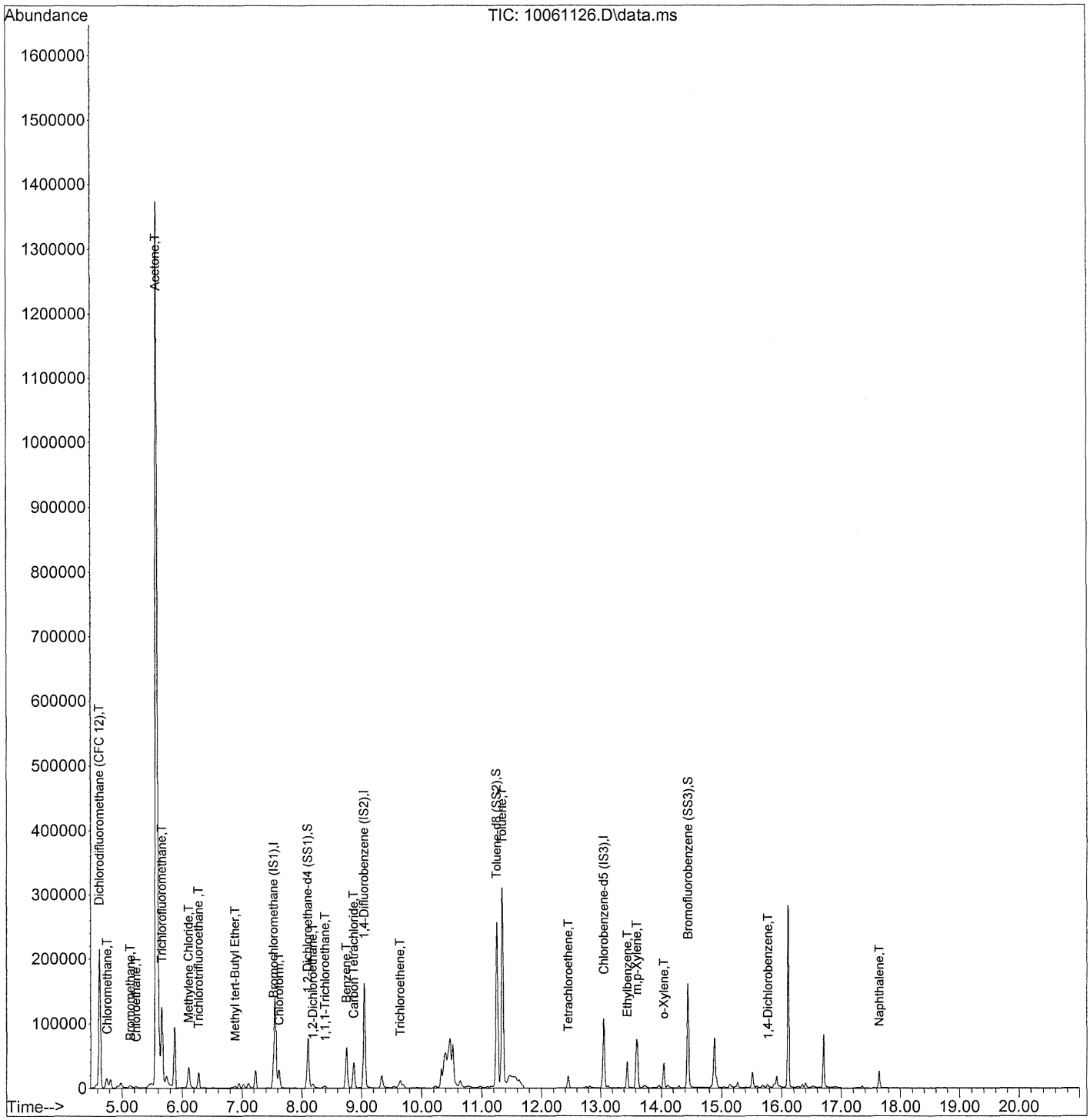
Quant Time: Oct 07 06:07:12 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	46452	104.48	pg	98
37) m,p-Xylene	13.62	91	101640	280.78	pg	99
38) o-Xylene	14.04	91	39529	107.04	pg	96
39) 1,1,2,2-Tetrachloroethane	14.04	83	114	N.D.		
41) 1,3-Dichlorobenzene	15.69	146	425	N.D.		
42) 1,4-Dichlorobenzene	15.77	146	5963	27.06	pg	98
43) 1,2-Dichlorobenzene	16.07	146	137	N.D.		
44) 1,2,4-Trichlorobenzene	17.55	182	177	N.D.		
45) Naphthalene	17.64	128	13506	24.92	pg	95
46) Hexachlorobutadiene	17.97	225	59	N.D.		

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

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:41:29 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

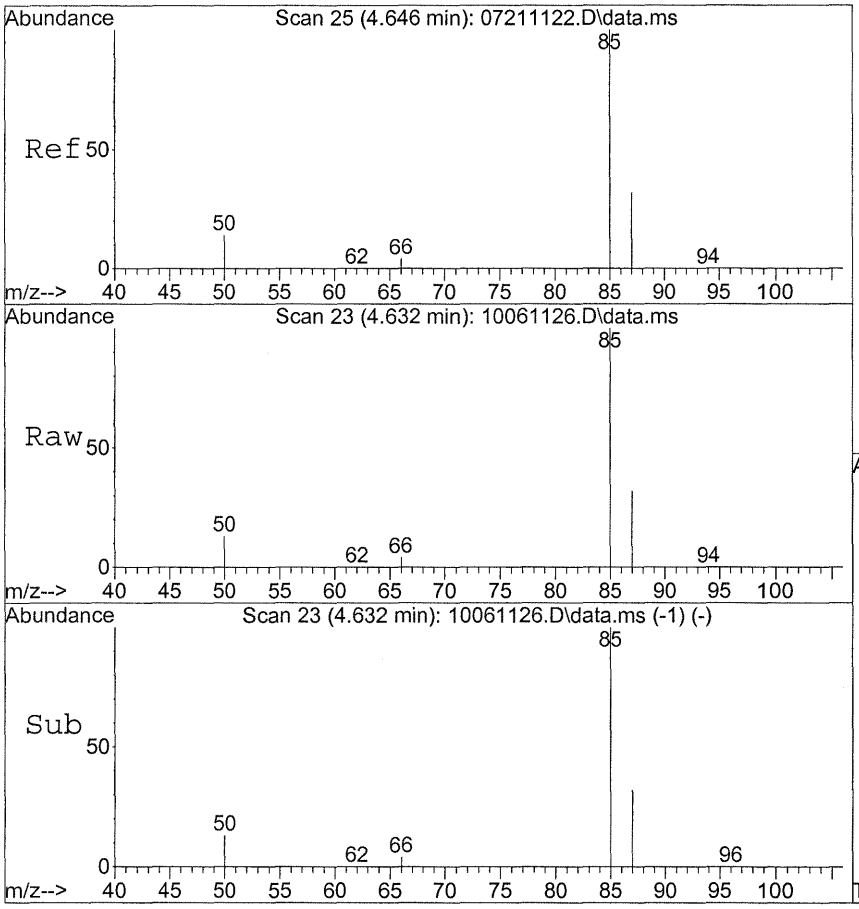
Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:41:29 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	63897	1000.00 pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	297342	1000.00 pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	149075	1000.00 pg	0.00
System Monitoring Compounds					
17) 1,2-Dichloroethane-d4 ...	8.10	65	119363	955.49 pg	0.00
Spiked Amount 1000.000			Recovery =	95.55%	
30) Toluene-d8 (SS2)	11.25	98	329125	1018.20 pg	0.00
Spiked Amount 1000.000			Recovery =	101.82%	
40) Bromofluorobenzene (SS3)	14.45	174	115487	973.00 pg	0.00
Spiked Amount 1000.000			Recovery =	97.30%	
Target Compounds					Qvalue
2) Dichlorodifluoromethan...	4.63	85	273096	1455.64 pg	98
3) Chloromethane	4.76	52	8733m	188.75 pg	
5) Bromomethane	5.13	94	3964	53.47 pg	95
6) Chloroethane	5.23	64	2519	29.19 pg	95
7) Acetone	5.57	58	728949	9895.88 pg	# 87
8) Trichlorofluoromethane	5.66	101	133651	760.84 pg	99
10) Methylene Chloride	6.11	84	27159	271.71 pg	92
11) Trichlorotrifluoroethane	6.28	151	26007	321.87 pg	100
14) Methyl tert-Butyl Ether	6.88	73	4883	15.76 pg	91
16) Chloroform	7.62	83	35268	198.65 pg	97
18) 1,2-Dichloroethane	8.19	62	4642	32.58 pg	96
19) 1,1,1-Trichloroethane	8.39	97	3607	22.91 pg	98
20) Benzene	8.75	78	112637	272.64 pg	100
21) Carbon Tetrachloride	8.87	117	41865	339.63 pg	89
25) Trichloroethene	9.64	130	7275	69.63 pg	97
31) Toluene	11.35	91	395361	987.21 pg	100
33) Tetrachloroethene	12.45	166	20535	183.23 pg	100
36) Ethylbenzene	13.46	91	55856	124.95 pg	98
37) m,p-Xylene	13.62	91	119361	327.95 pg	99
38) o-Xylene	14.04	91	45669	123.00 pg	98
42) 1,4-Dichlorobenzene	15.77	146	4292	19.37 pg	98
45) Naphthalene	17.64	128	40123	73.64 pg	97

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

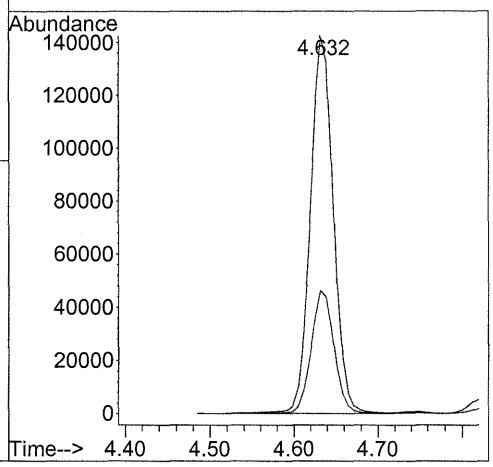
10/7/11

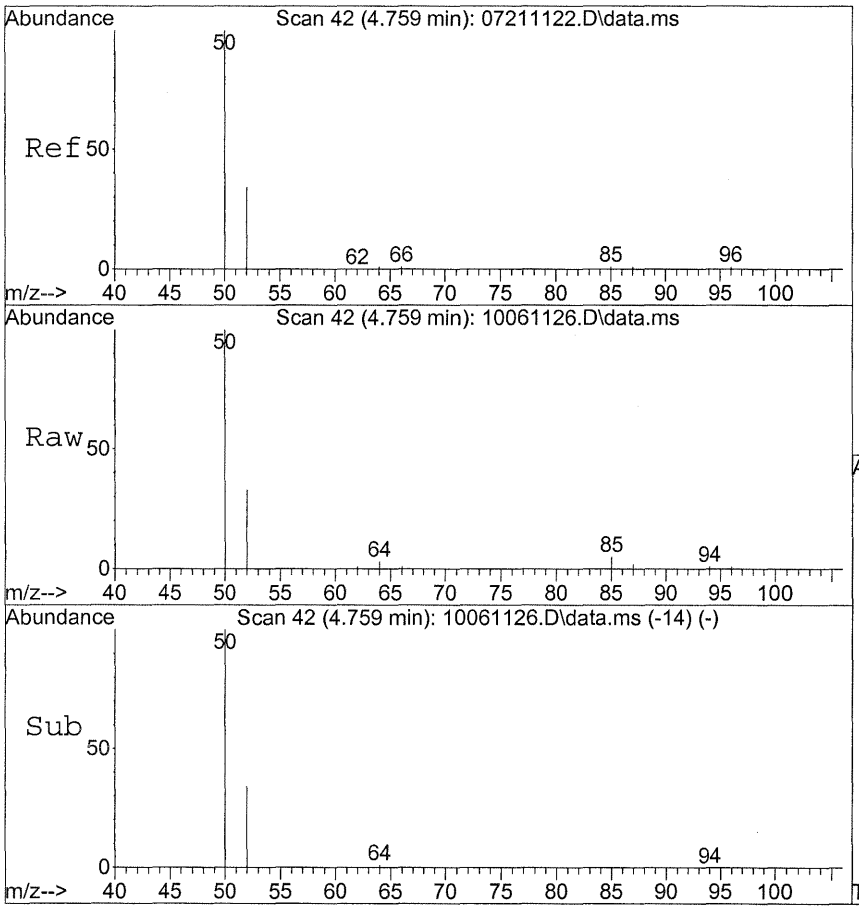


#2
Dichlorodifluoromethane (CFC
Concen: 1455.64 pg
RT: 4.63 min Scan# 23
Delta R.T. -0.014 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 85 Resp: 273096

Ion	Ratio	Lower	Upper
85	100		
87	32.4	13.3	53.3

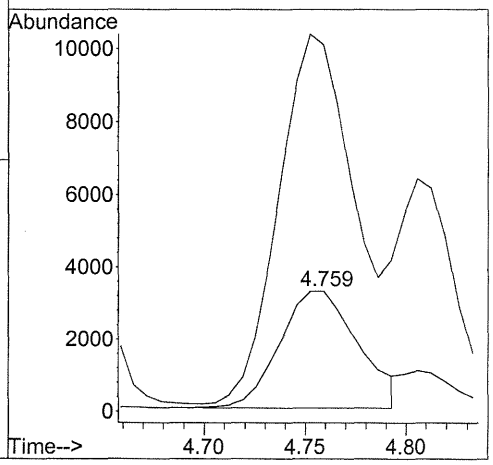


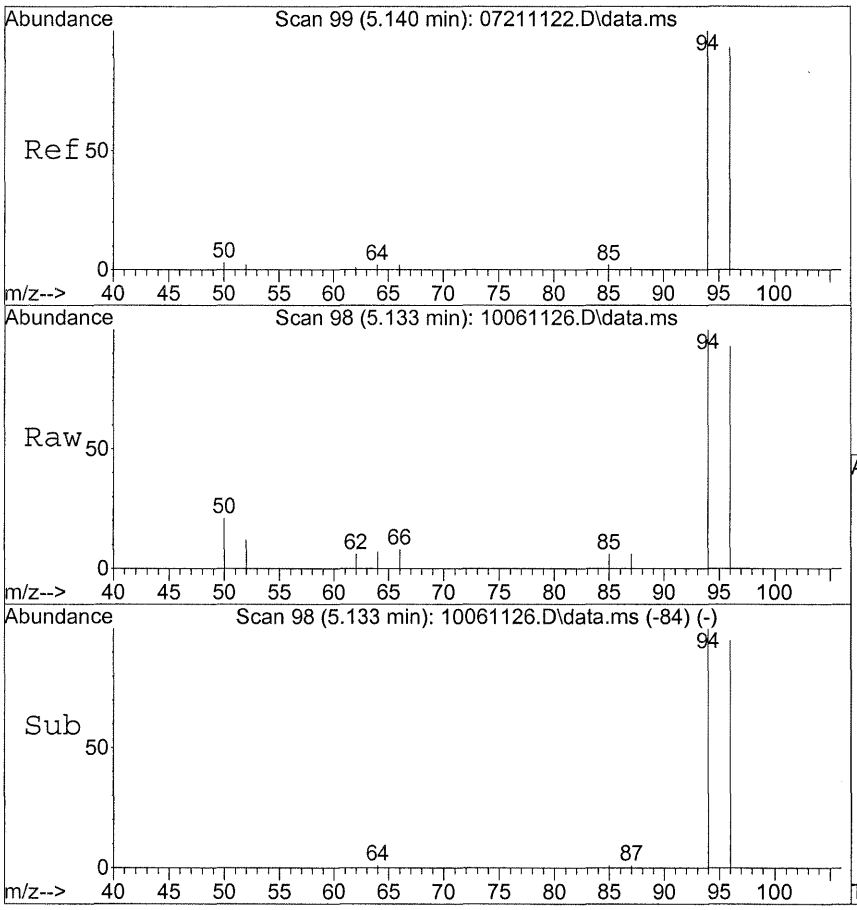


#3
Chloromethane
Concen: 188.75 pg m
RT: 4.76 min Scan# 42
Delta R.T. 0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 52 Resp: 8733

Ion	Ratio	Lower	Upper
52	100		
50	299.7	285.3	325.3

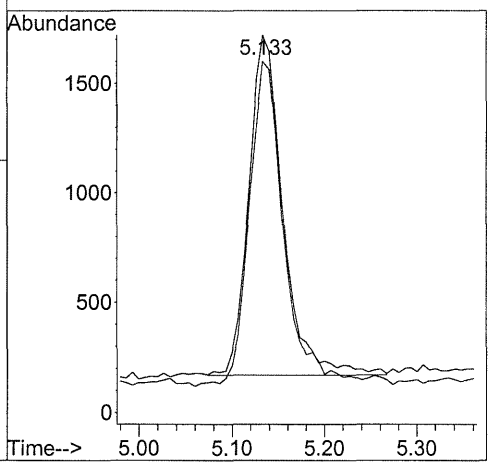


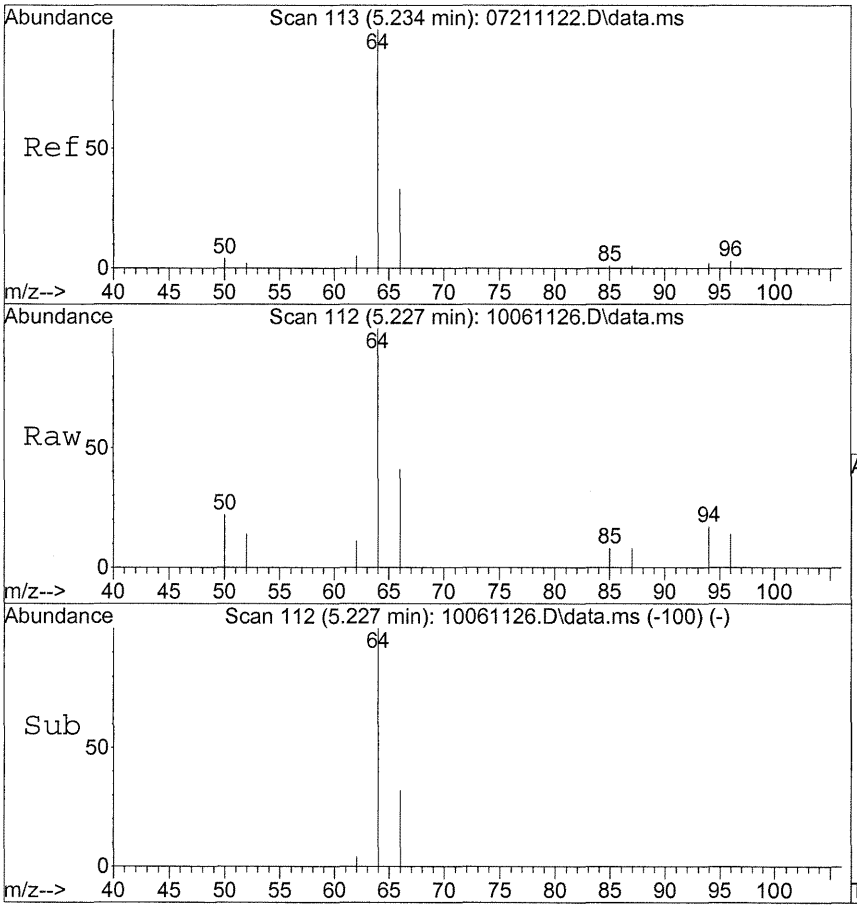


#5
Bromomethane
Concen: 53.47 pg
RT: 5.13 min Scan# 98
Delta R.T. -0.007 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 94 Resp: 3964

Ion	Ratio	Lower	Upper
94	100		
96	97.9	74.2	111.4

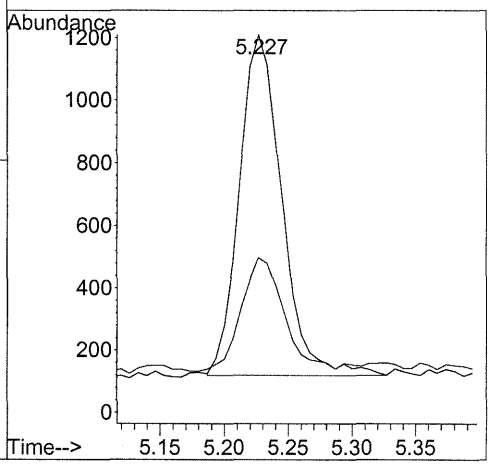


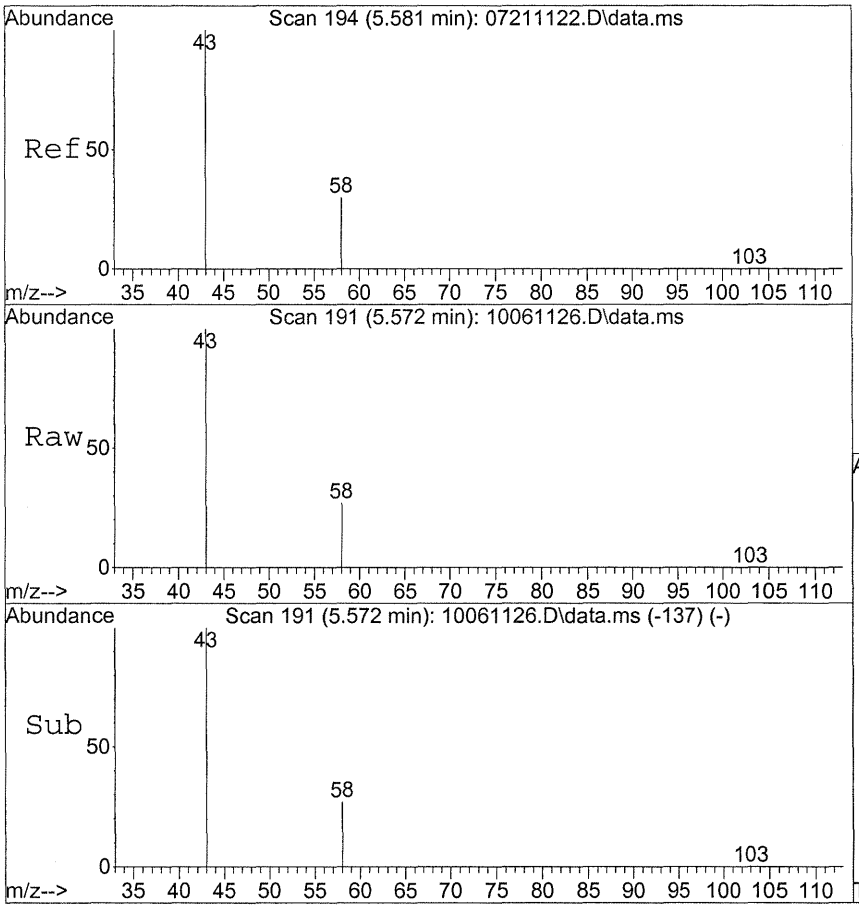


#6
Chloroethane
Concen: 29.19 pg
RT: 5.23 min Scan# 112
Delta R.T. -0.007 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 64 Resp: 2519

Ion	Ratio	Lower	Upper
64	100		
66	34.9	12.0	52.0

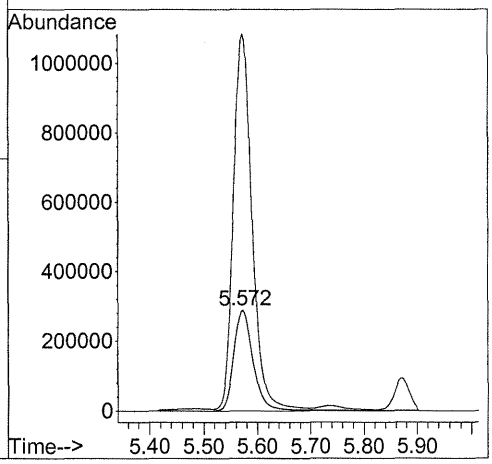


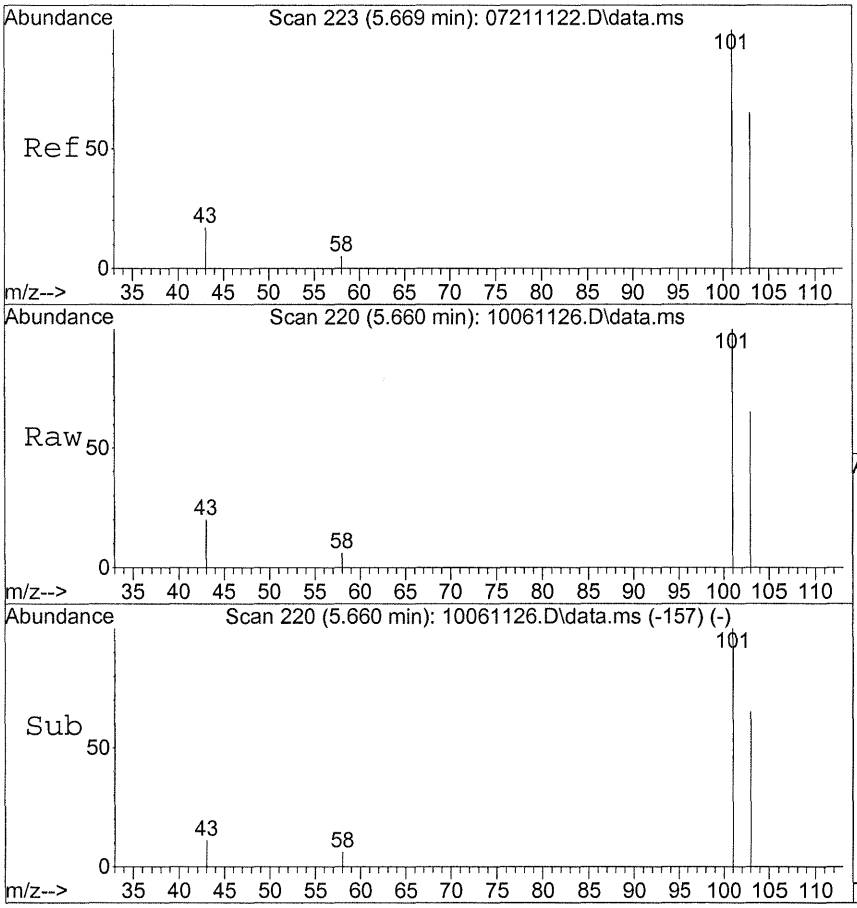


#7
Acetone
Concen: 9895.88 pg
RT: 5.57 min Scan# 191
Delta R.T. -0.009 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 58 Resp: 728949

Ion	Ratio	Lower	Upper
58	100		
43	354.4	307.2	347.2#

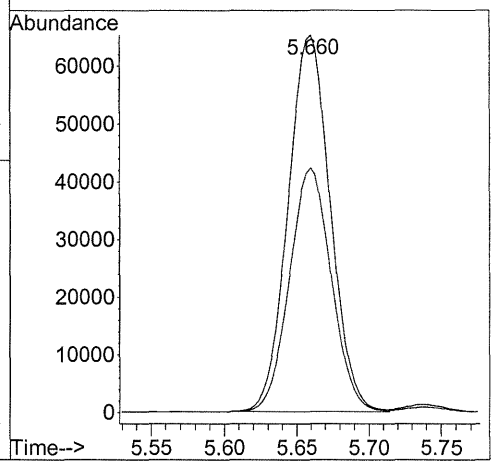


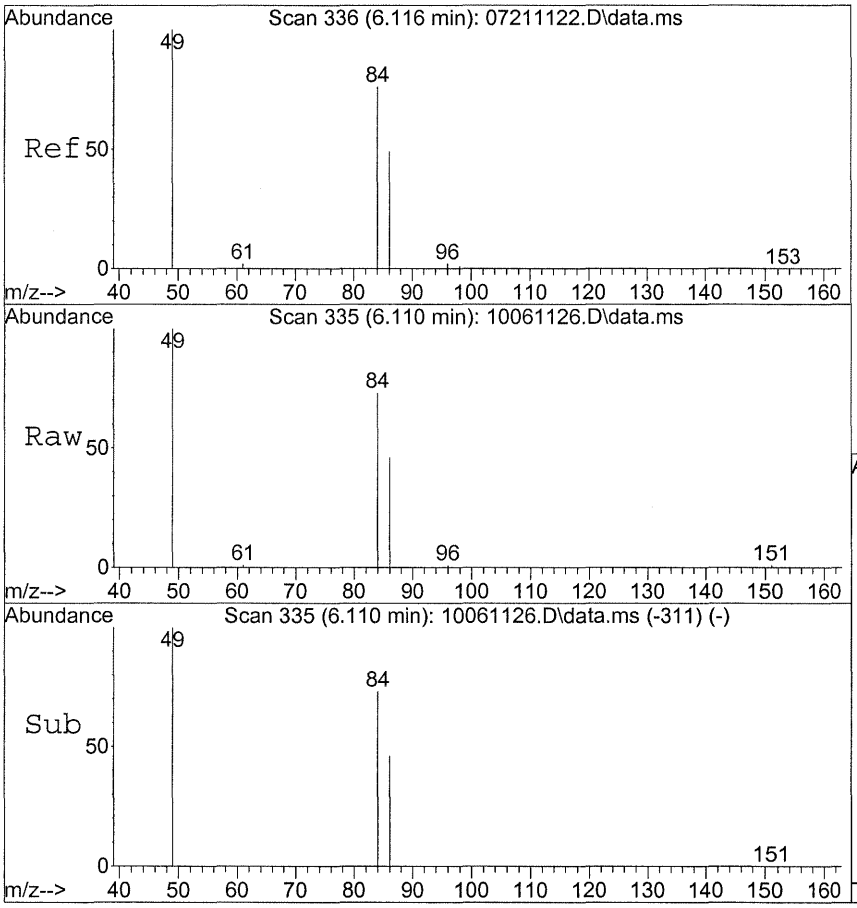


#8
Trichlorofluoromethane
Concen: 760.84 pg
RT: 5.66 min Scan# 220
Delta R.T. -0.009 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion:101 Resp: 133651

Ion	Ratio	Lower	Upper
101	100		
103	64.3	50.6	75.8

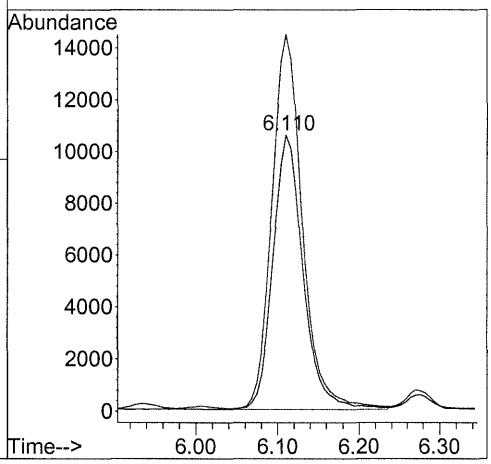


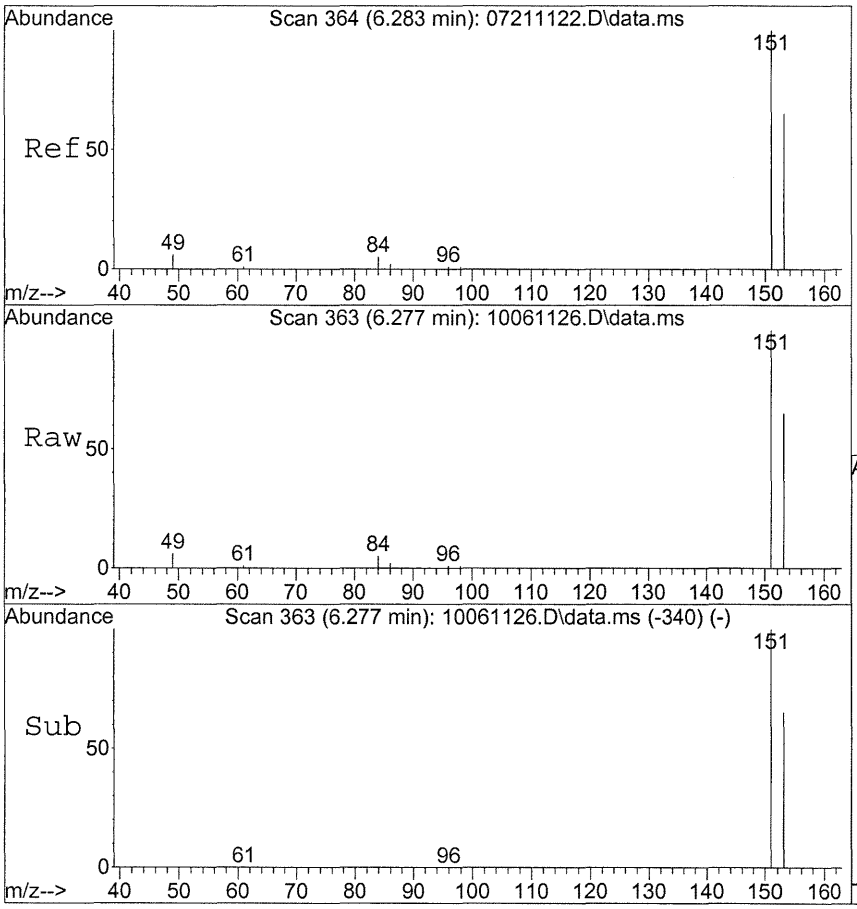


#10
Methylene Chloride
Concen: 271.71 pg
RT: 6.11 min Scan# 335
Delta R.T. -0.006 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 84 Resp: 27159

Ion	Ratio	Lower	Upper
84	100		
49	137.1	107.9	147.9

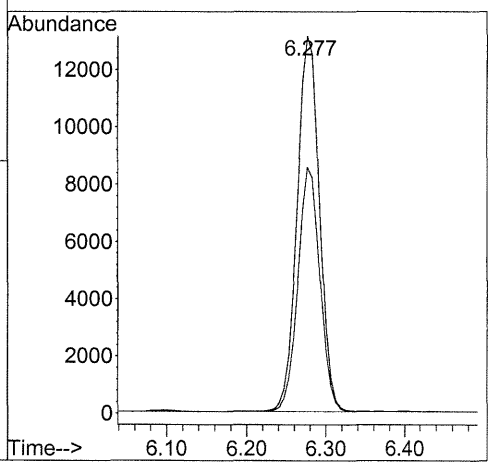


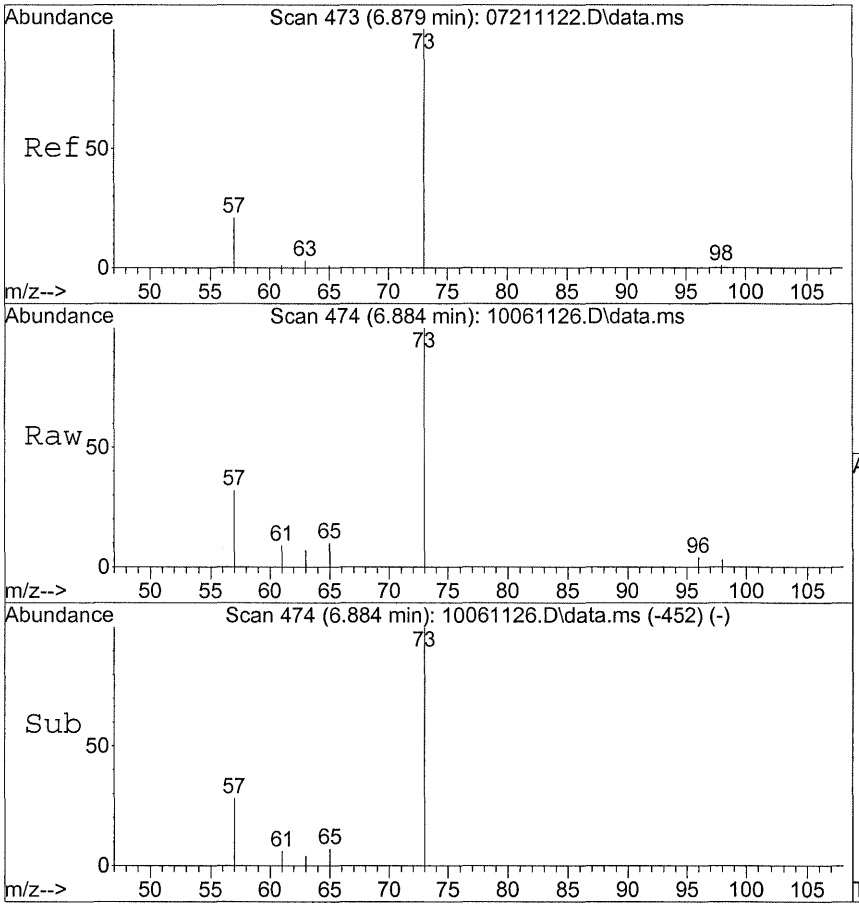


#11
Trichlorotrifluoroethane
Concen: 321.87 pg
RT: 6.28 min Scan# 363
Delta R.T. -0.006 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion:151 Resp: 26007

Ion	Ratio	Lower	Upper
151	100		
153	64.0	44.1	84.1

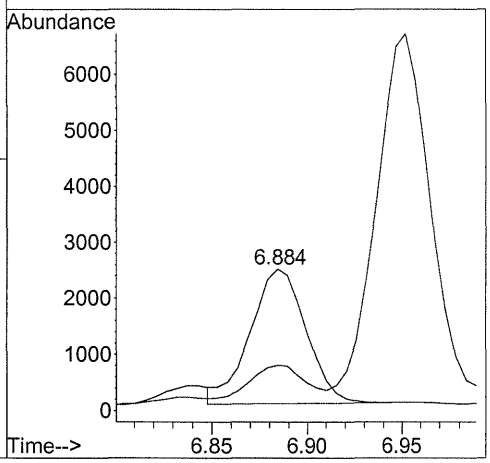


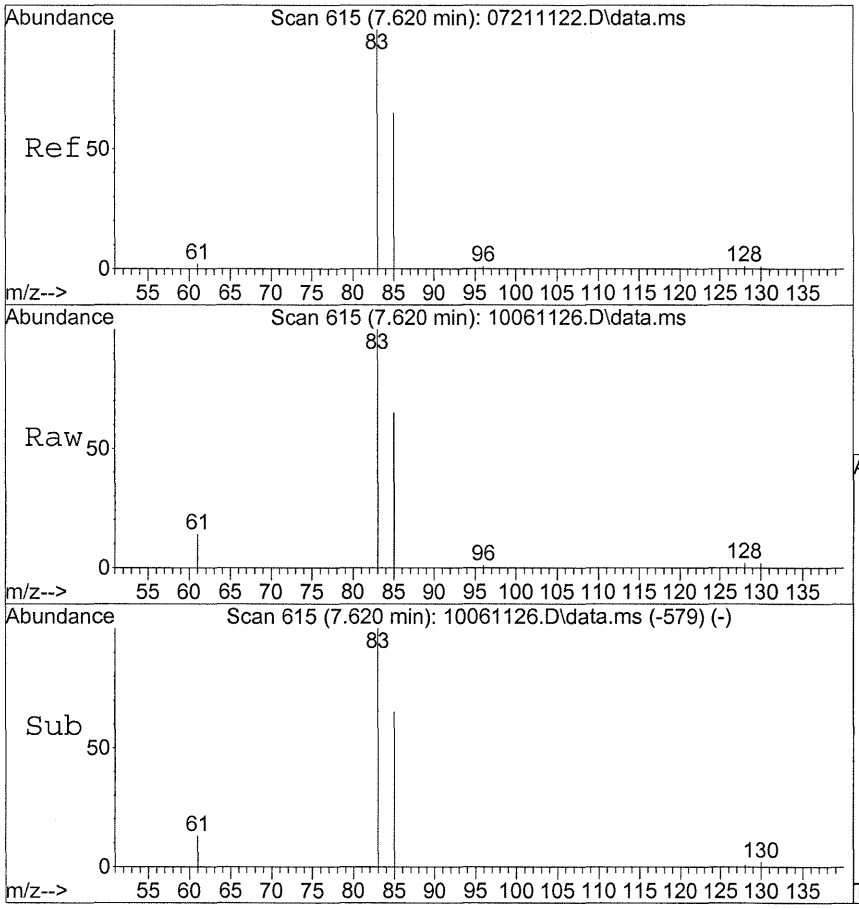


#14
Methyl tert-Butyl Ether
Concen: 15.76 pg
RT: 6.88 min Scan# 474
Delta R.T. 0.005 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 73 Resp: 4883

Ion	Ratio	Lower	Upper
73	100		
57	25.2	1.2	41.2

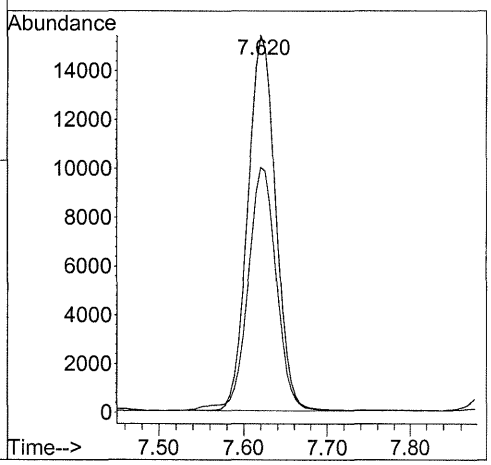


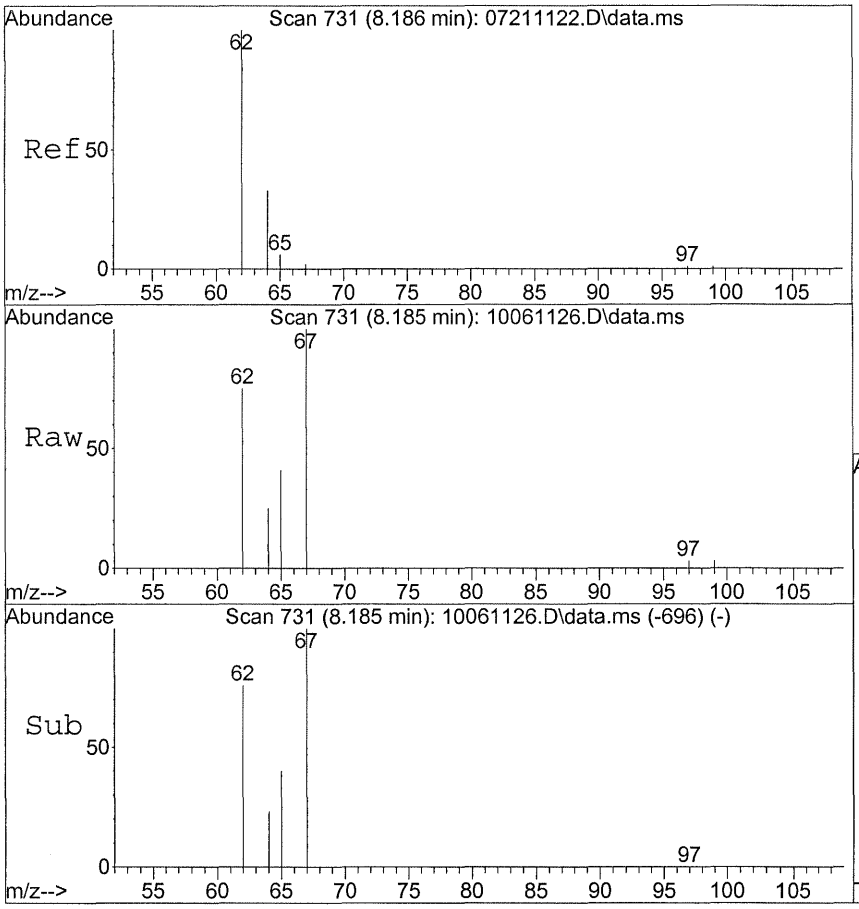


#16
Chloroform
Concen: 198.65 pg
RT: 7.62 min Scan# 615
Delta R.T. 0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 83 Resp: 35268

Ion	Ratio	Lower	Upper
83	100		
85	66.4	44.4	84.4

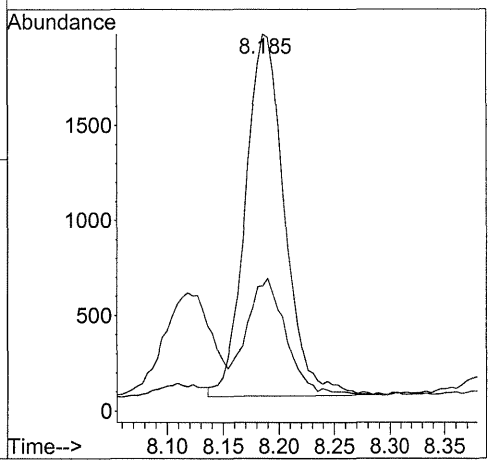


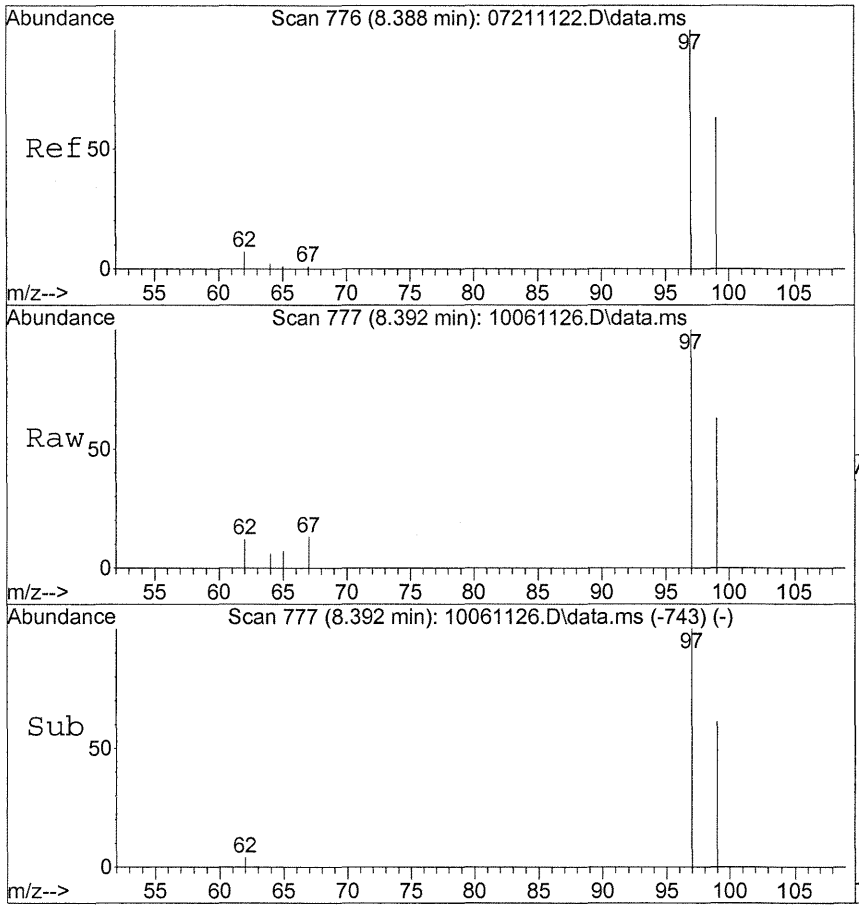


#18
1,2-Dichloroethane
Concen: 32.58 pg
RT: 8.19 min Scan# 731
Delta R.T. -0.001 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 62 Resp: 4642

Ion	Ratio	Lower	Upper
62	100		
64	32.7	10.3	50.3

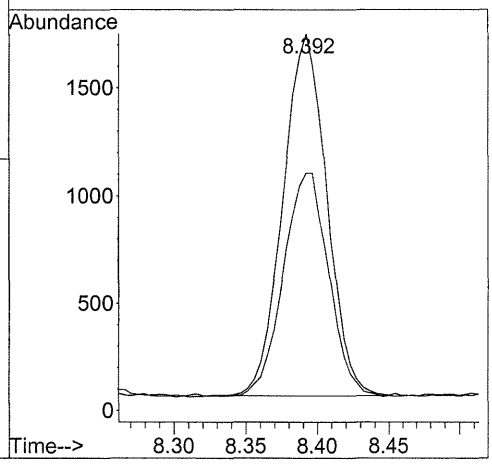


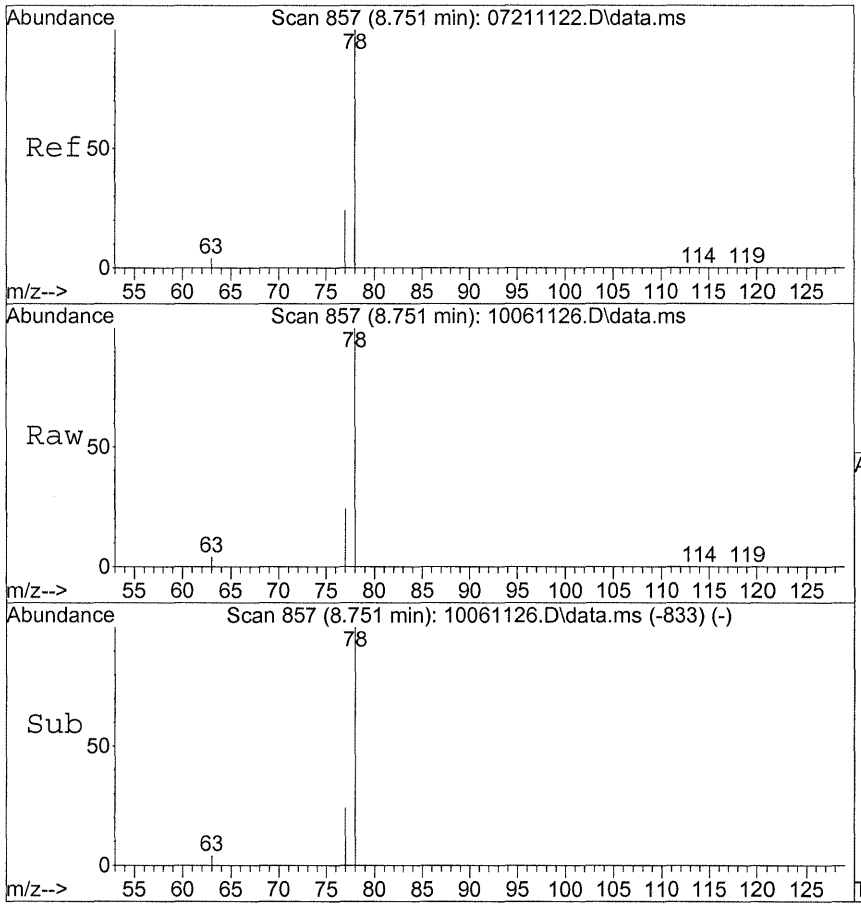


#19
1,1,1-Trichloroethane
Concen: 22.91 pg
RT: 8.39 min Scan# 777
Delta R.T. 0.004 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 97 Resp: 3607

Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.2	85.2

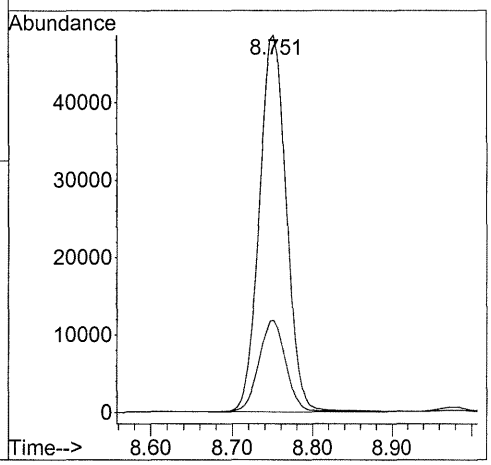


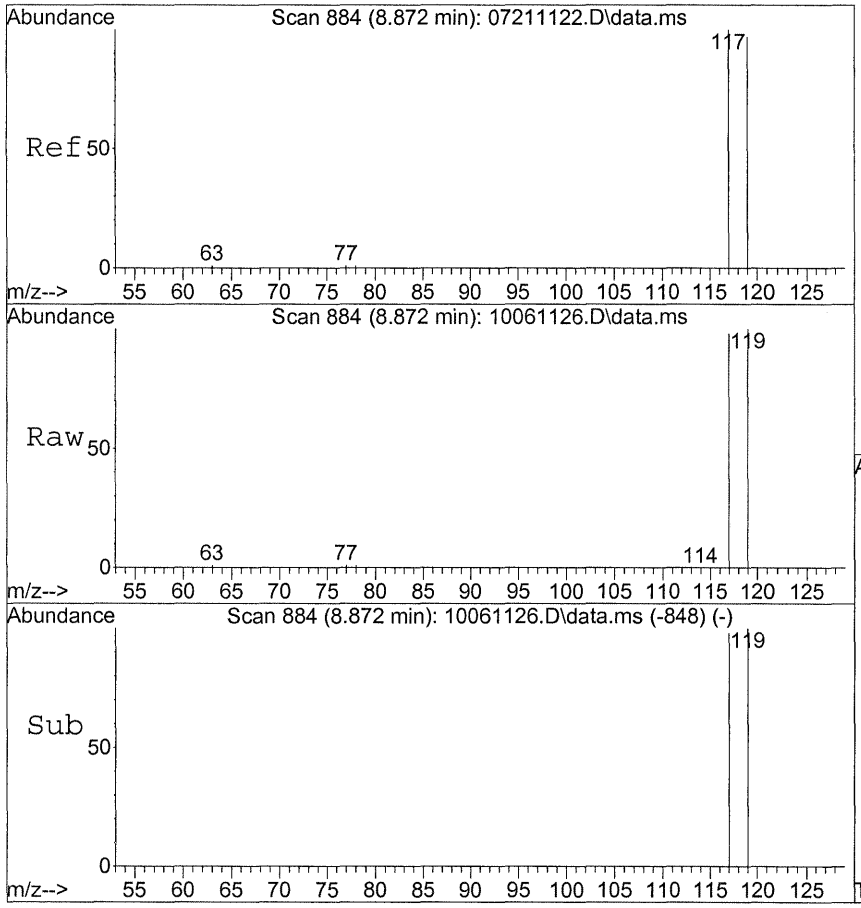


#20
Benzene
Concen: 272.64 pg
RT: 8.75 min Scan# 857
Delta R.T. 0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 78 Resp: 112637

Ion	Ratio	Lower	Upper
78	100		
77	24.0	4.0	44.0

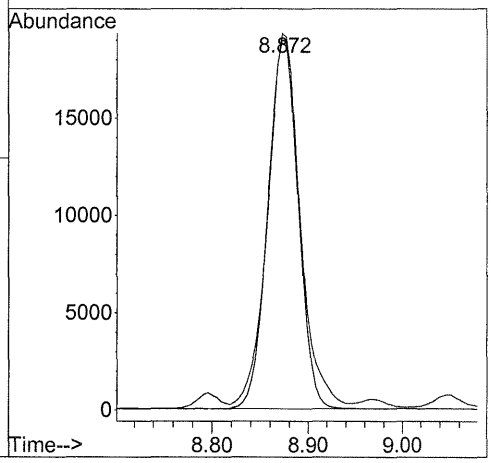


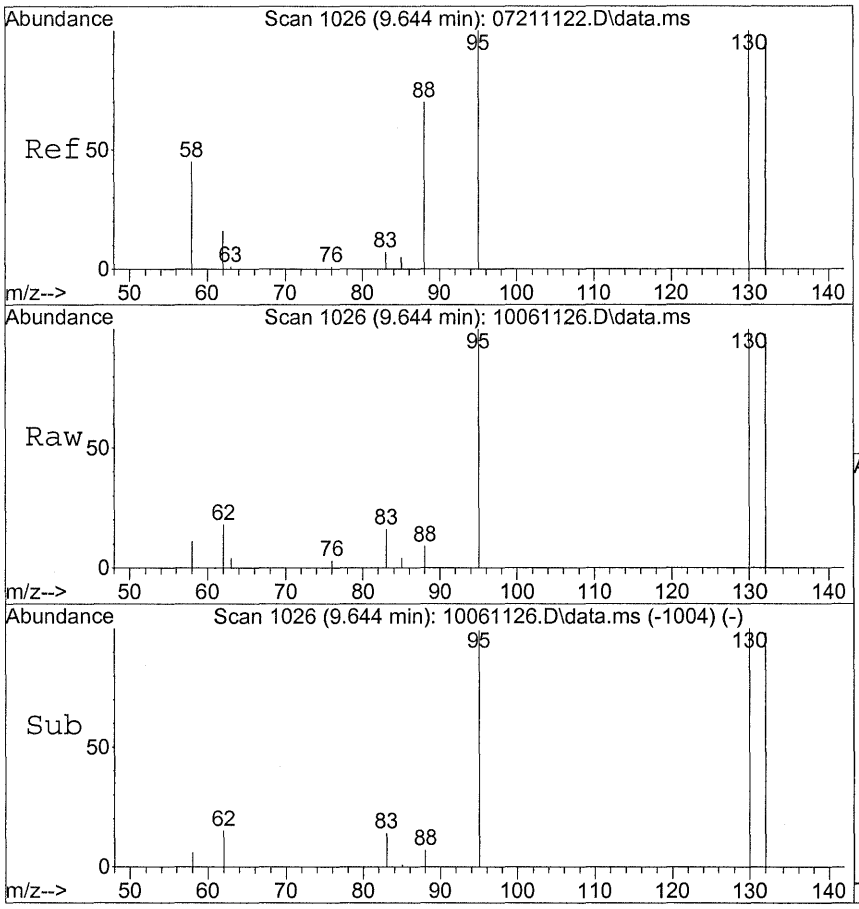


#21
Carbon Tetrachloride
Concen: 339.63 pg
RT: 8.87 min Scan# 884
Delta R.T. 0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion:117 Resp: 41865

Ion	Ratio	Lower	Upper
117	100		
119	108.3	77.5	117.5

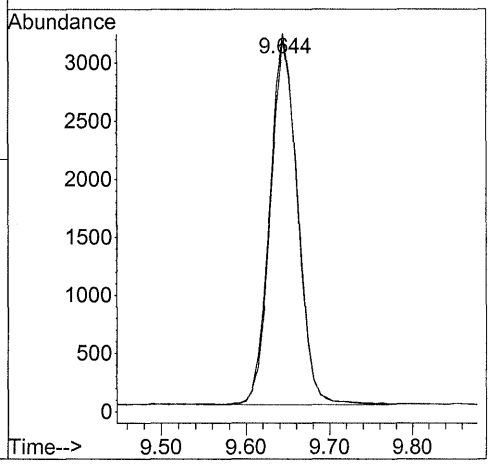


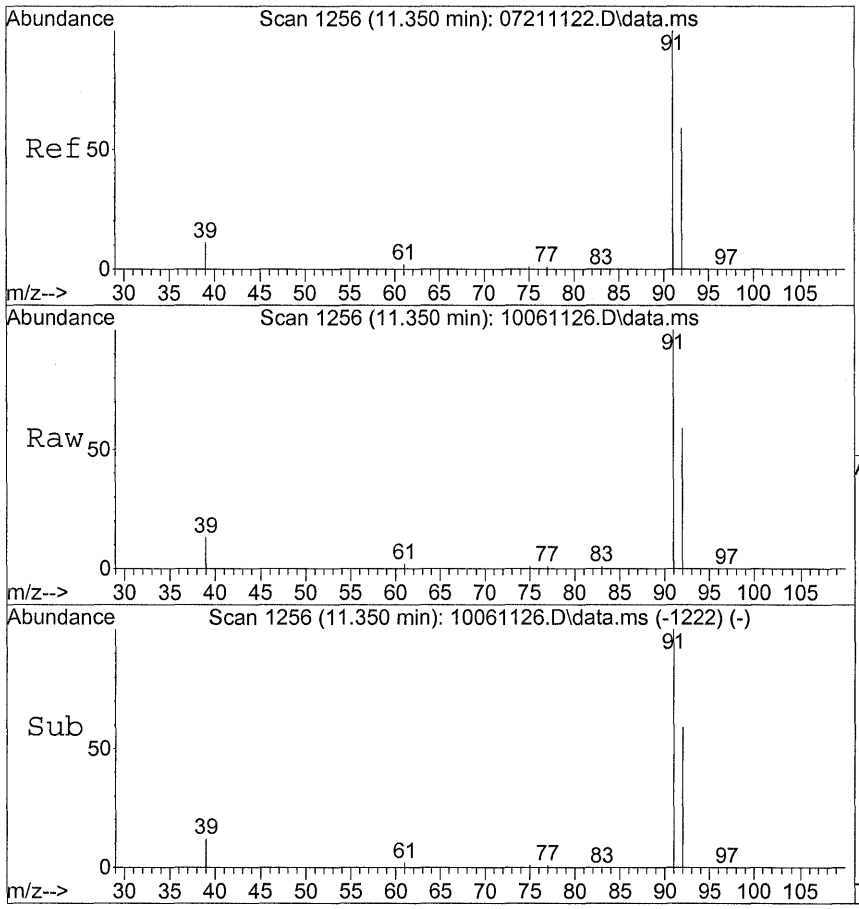


#25
Trichloroethene
Concen: 69.63 pg
RT: 9.64 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion:130 Resp: 7275

Ion	Ratio	Lower	Upper
130	100		
132	97.7	74.7	114.7

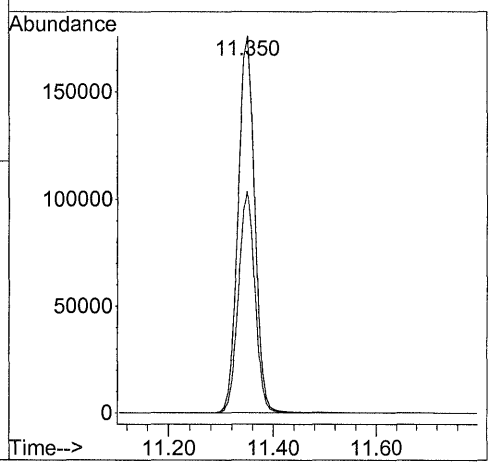


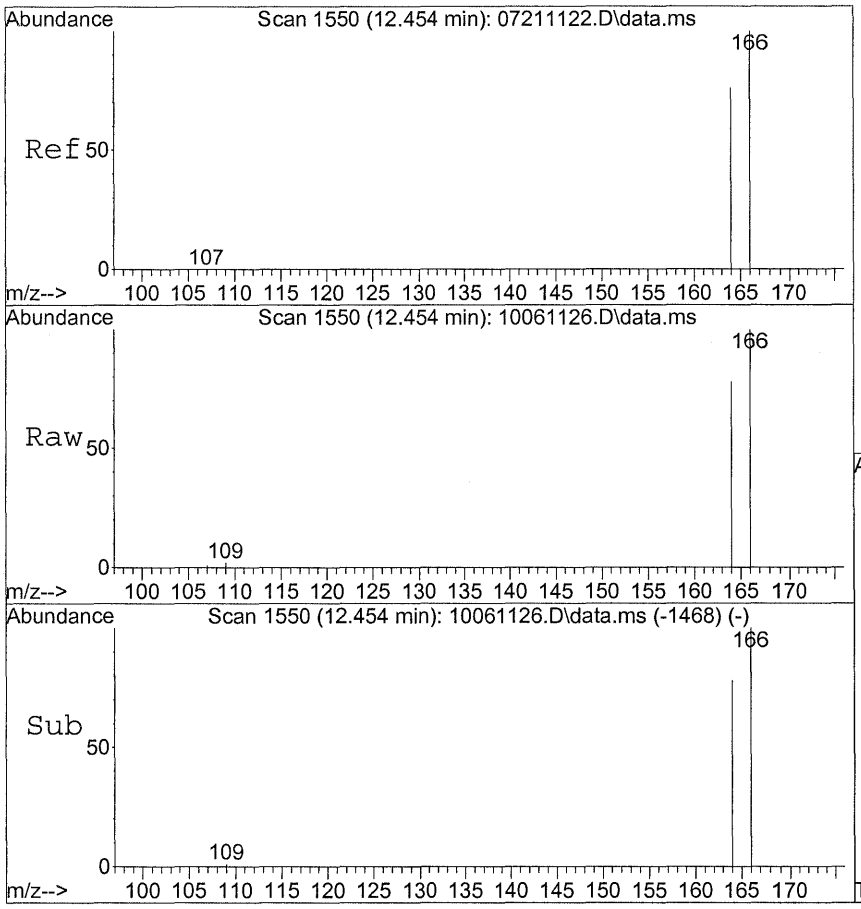


#31
Toluene
Concen: 987.21 pg
RT: 11.35 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 91 Resp: 395361

Ion	Ratio	Lower	Upper
91	100		
92	58.4	38.2	78.2

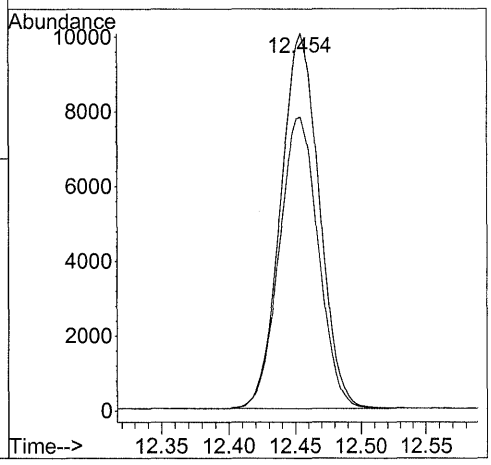


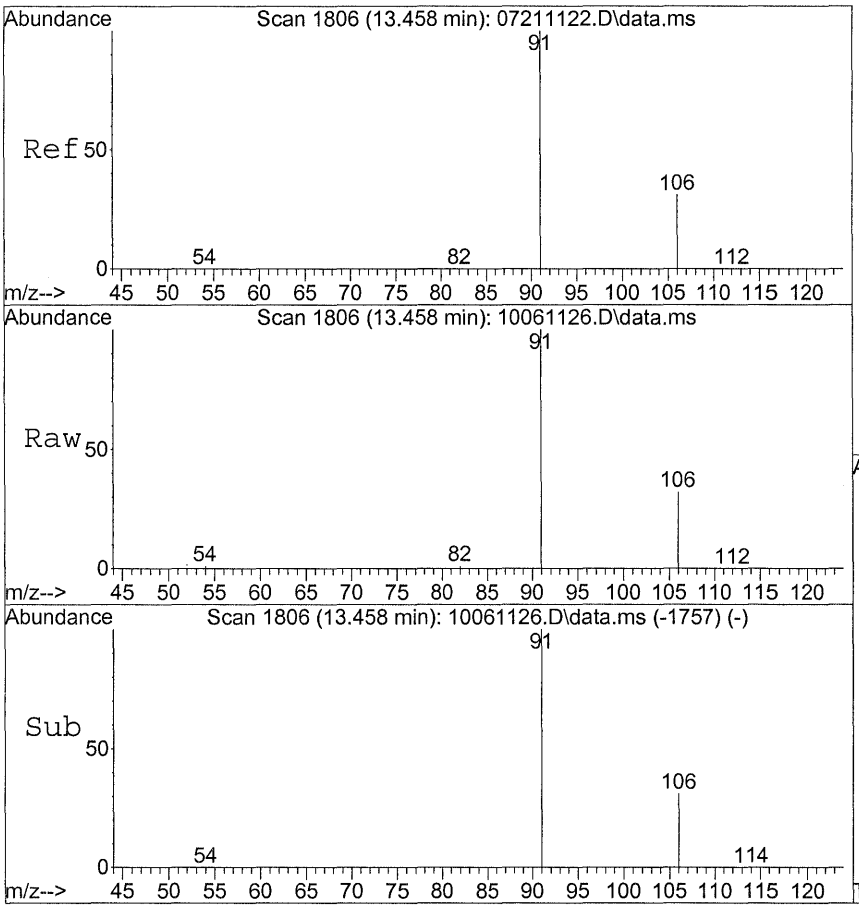


#33
Tetrachloroethene
Concen: 183.23 pg
RT: 12.45 min Scan# 1550
Delta R.T. 0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion:166 Resp: 20535

Ion	Ratio	Lower	Upper
166	100		
164	78.5	58.2	98.2

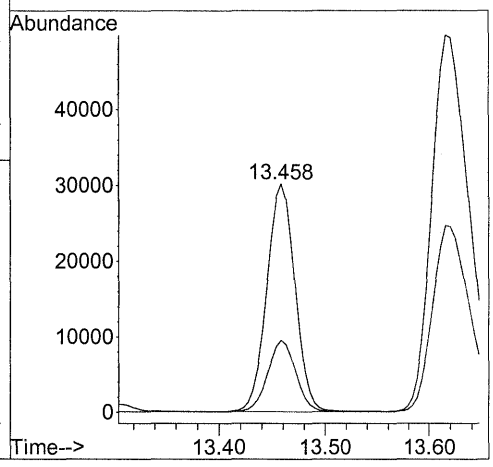


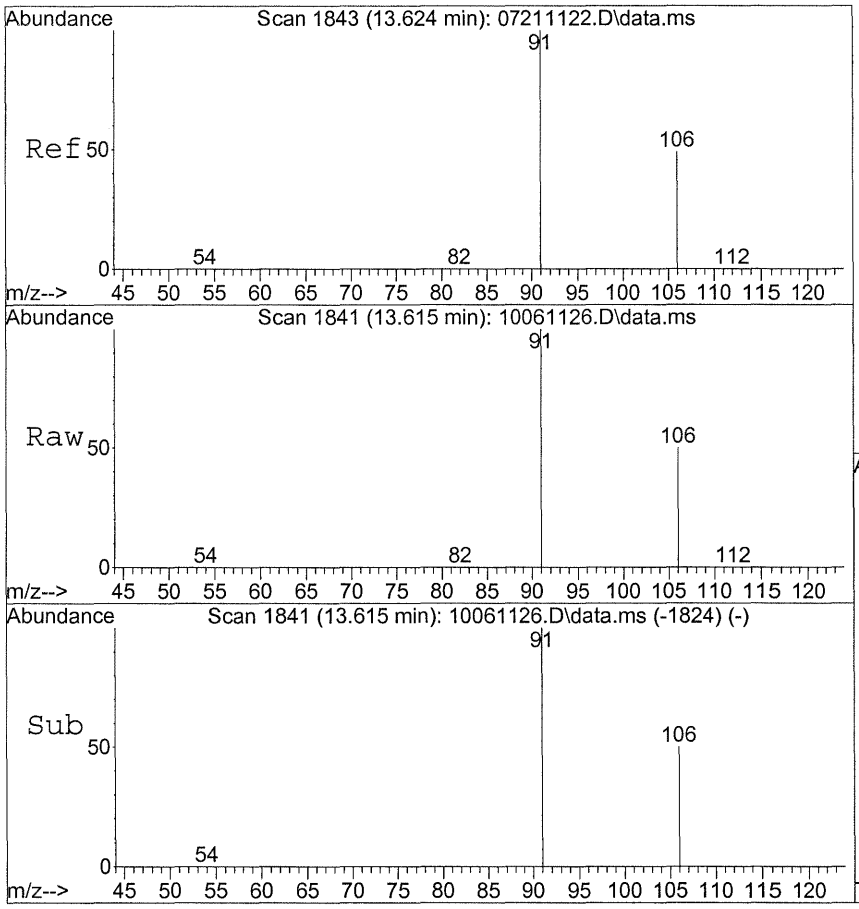


#36
Ethylbenzene
Concen: 124.95 pg
RT: 13.46 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 91 Resp: 55856

Ion	Ratio	Lower	Upper
91	100		
106	31.0	11.9	51.9

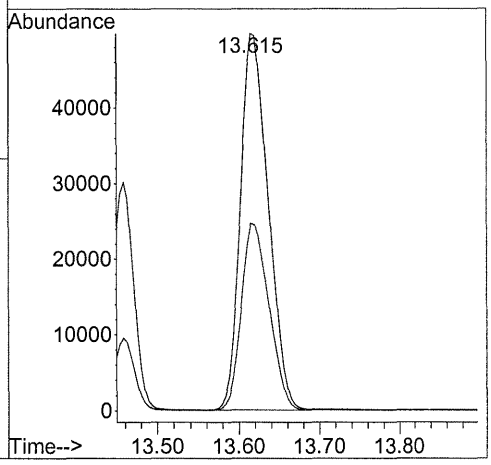


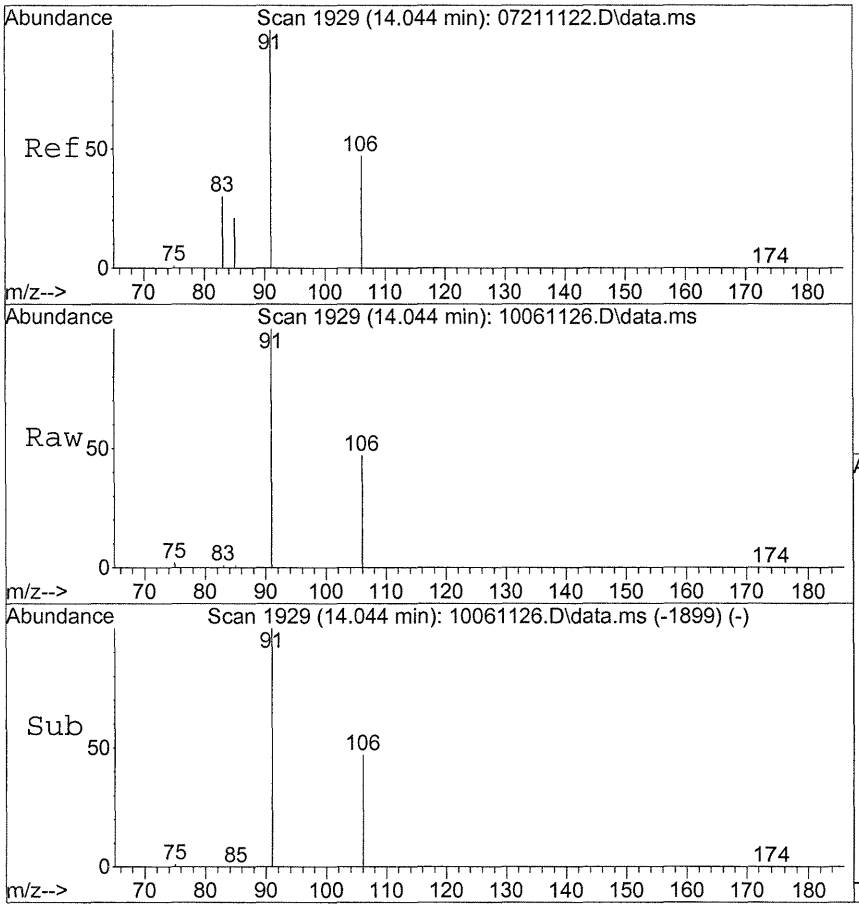


#37
m,p-Xylene
Concen: 327.95 pg
RT: 13.62 min Scan# 1841
Delta R.T. -0.009 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 91 Resp: 119361

Ion	Ratio	Lower	Upper
91	100		
106	49.3	30.3	70.3

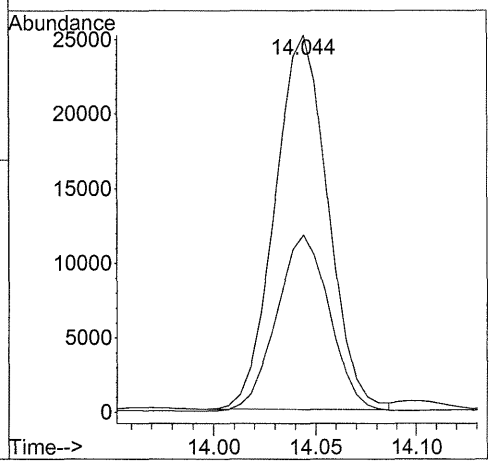


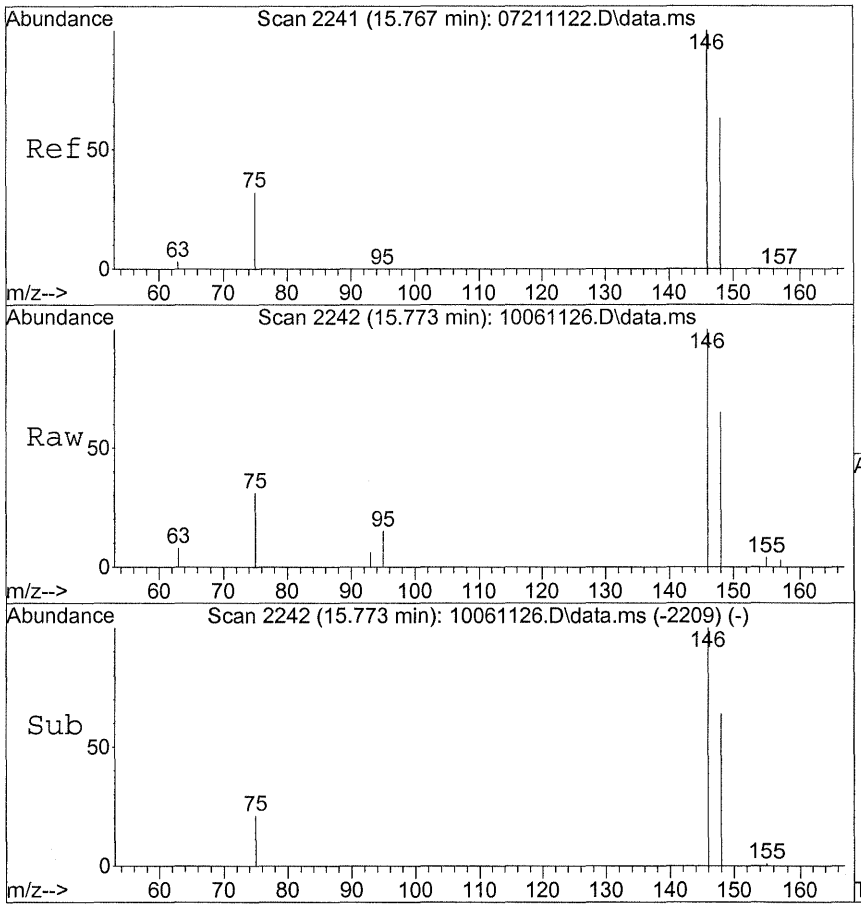


#38
o-Xylene
Concen: 123.00 pg
RT: 14.04 min Scan# 1929
Delta R.T. 0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion: 91 Resp: 45669

Ion	Ratio	Lower	Upper
91	100		
106	47.0	28.4	68.4

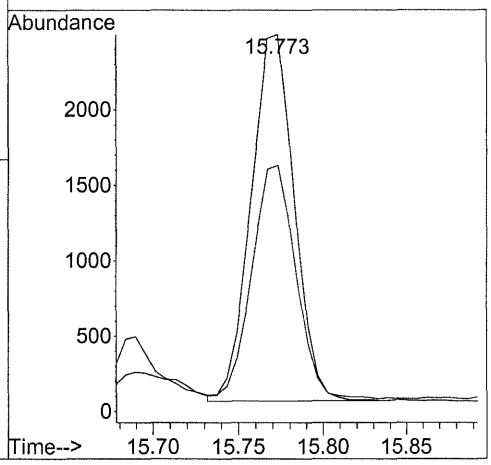


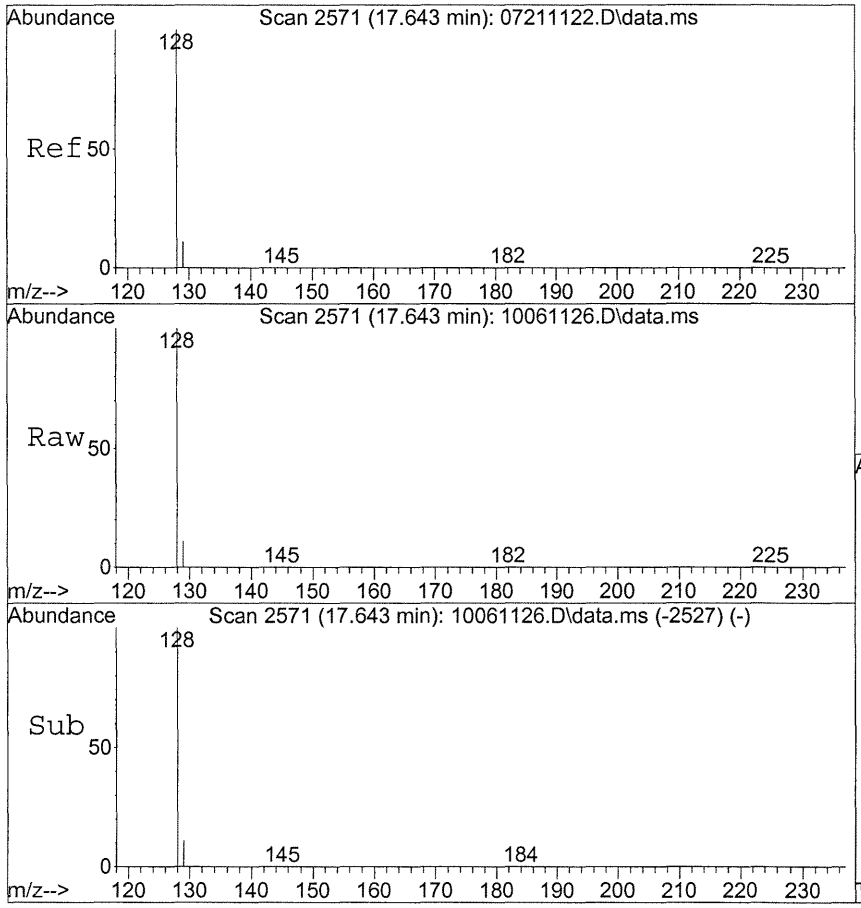


#42
1,4-Dichlorobenzene
Concen: 19.37 pg
RT: 15.77 min Scan# 2242
Delta R.T. 0.006 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion:146 Resp: 4292

Ion	Ratio	Lower	Upper
146	100		
148	64.8	42.9	82.9

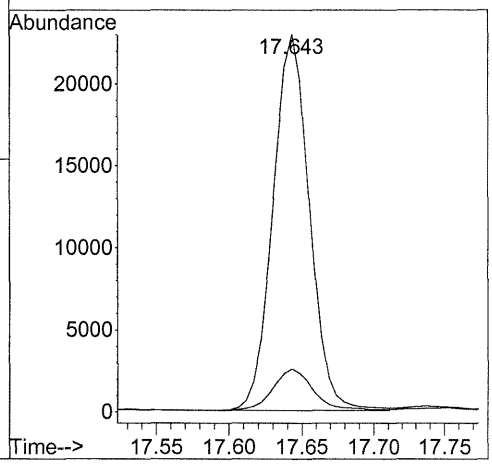




#45
Naphthalene
Concen: 73.64 pg
RT: 17.64 min Scan# 2571
Delta R.T. -0.000 min
Lab File: 10061126.D
Acq: 6 Oct 2011 21:06

Tgt Ion:128 Resp: 40123

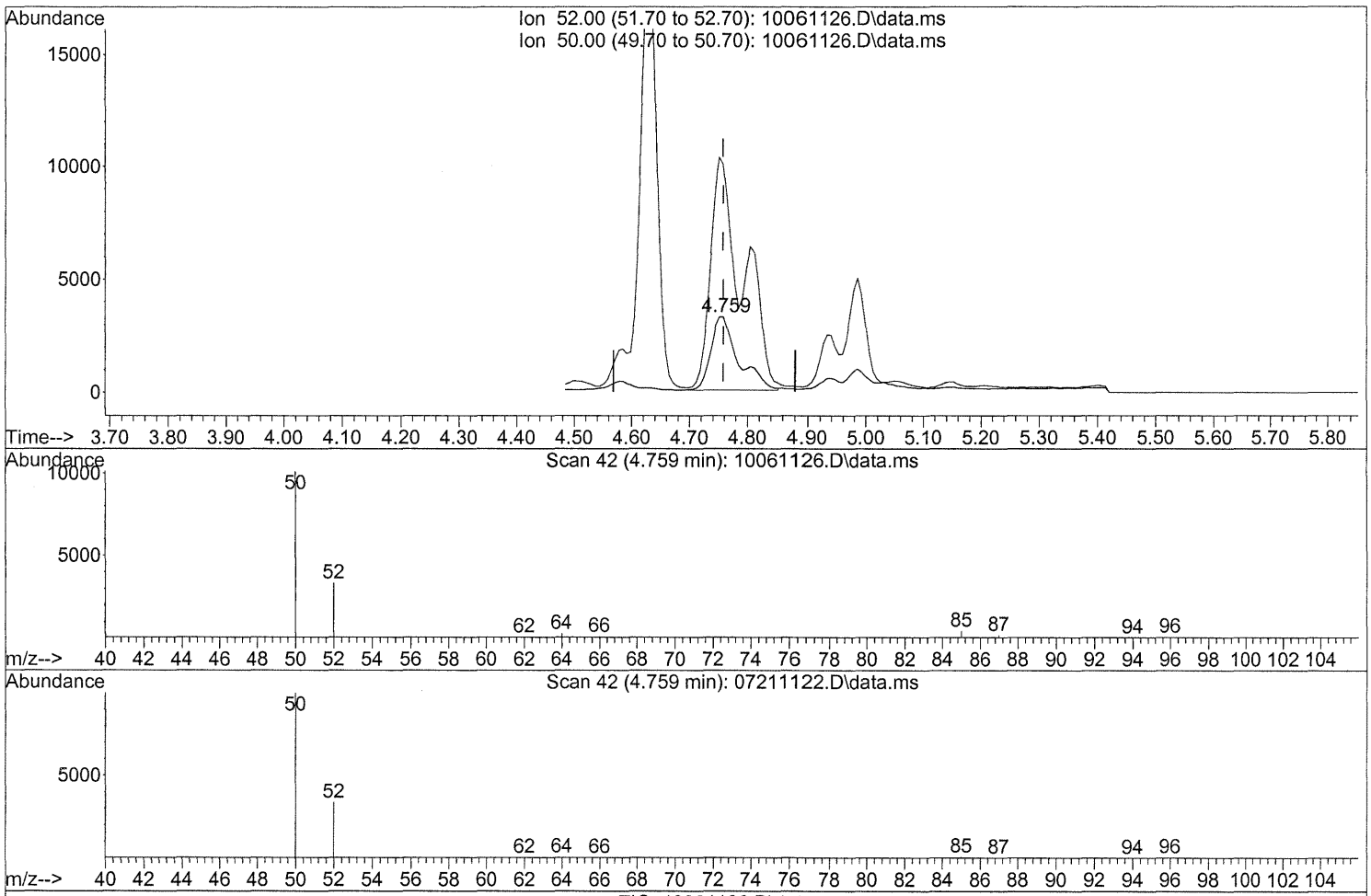
Ion	Ratio	Lower	Upper
128	100		
129	11.9	0.0	30.9



Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:07:15 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061126.D\data.ms

(3) Chloromethane (T)

4.759min (+0.000) 230.94pg

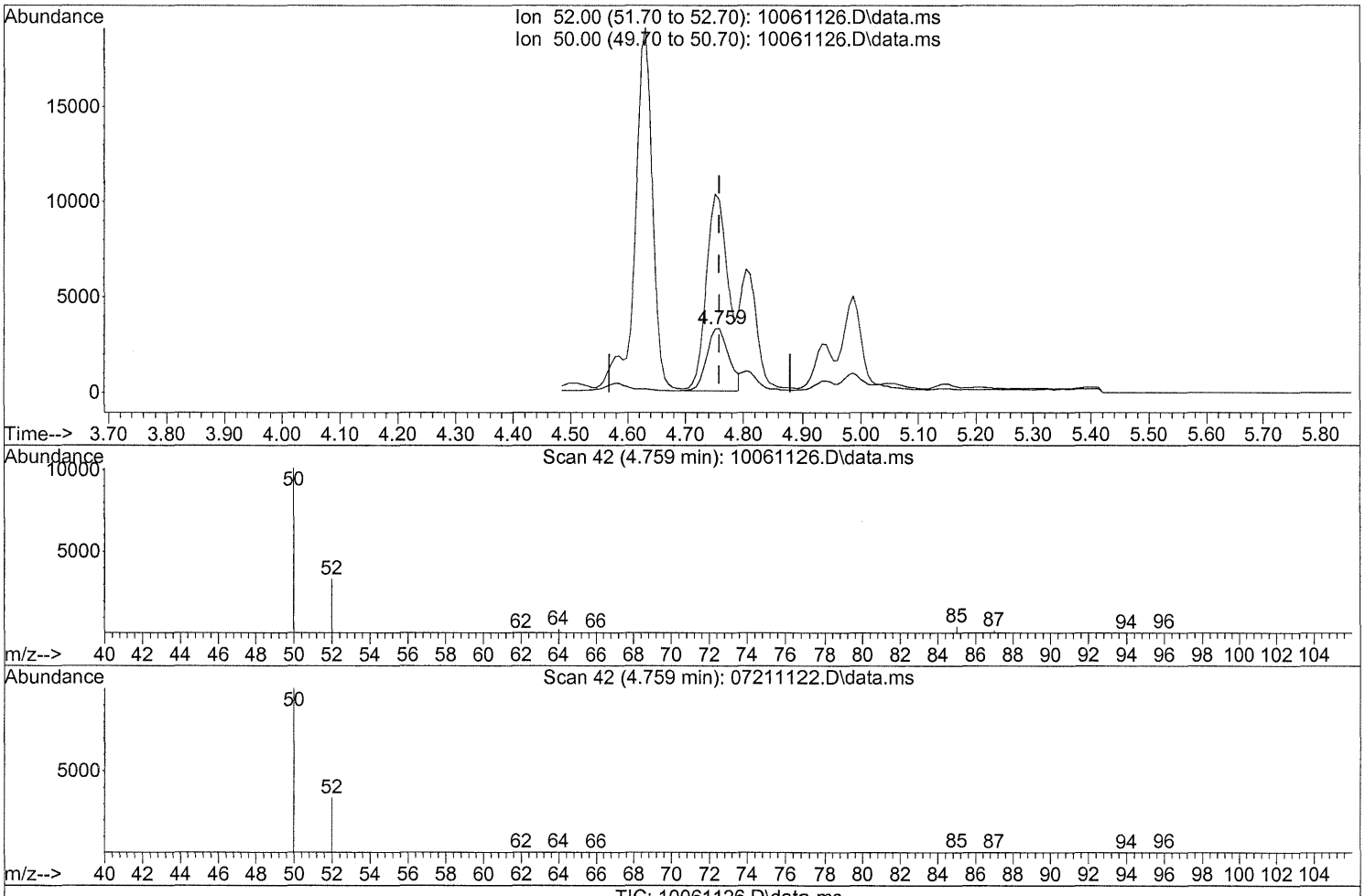
response 10685

Ion	Exp%	Act%
52.00	100	100
50.00	305.30	244.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:07:15 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



TIC: 10061126.D\data.ms

(3) Chloromethane (T)

4.759min (+0.000) 188.75pg m

response 8733

Ion	Exp%	Act%
52.00	100	100
50.00	305.30	299.67
0.00	0.00	0.00
0.00	0.00	0.00

IPC

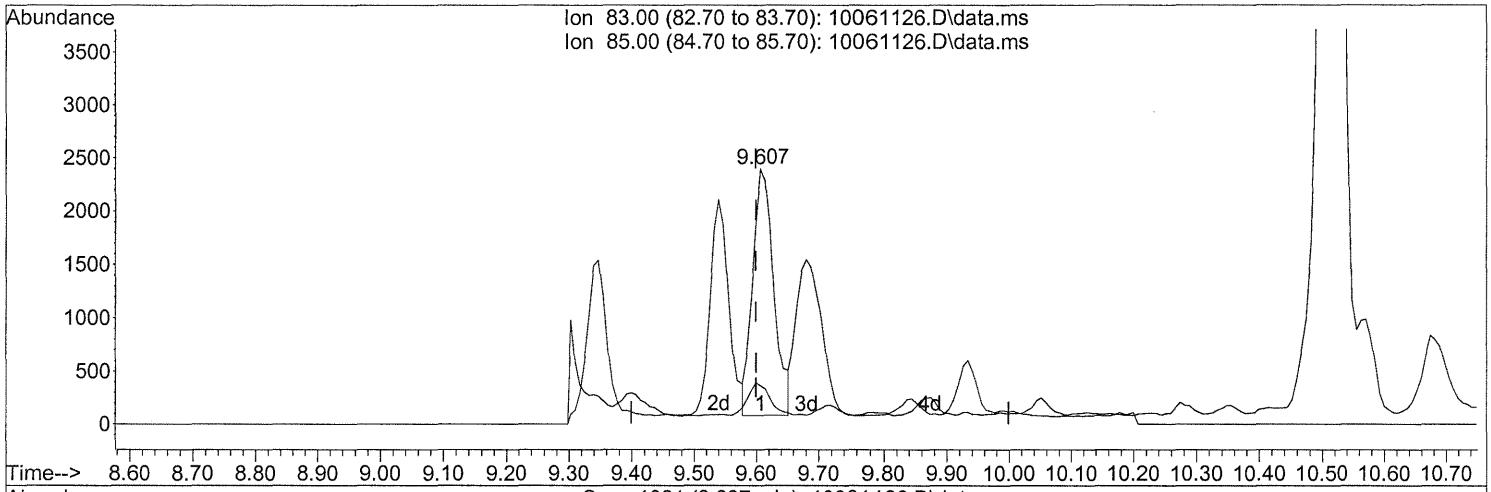
10/7/11

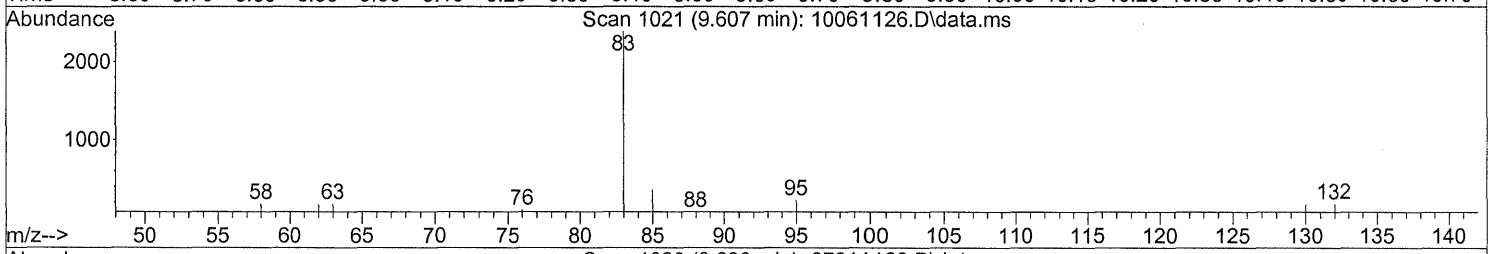
10/7/11

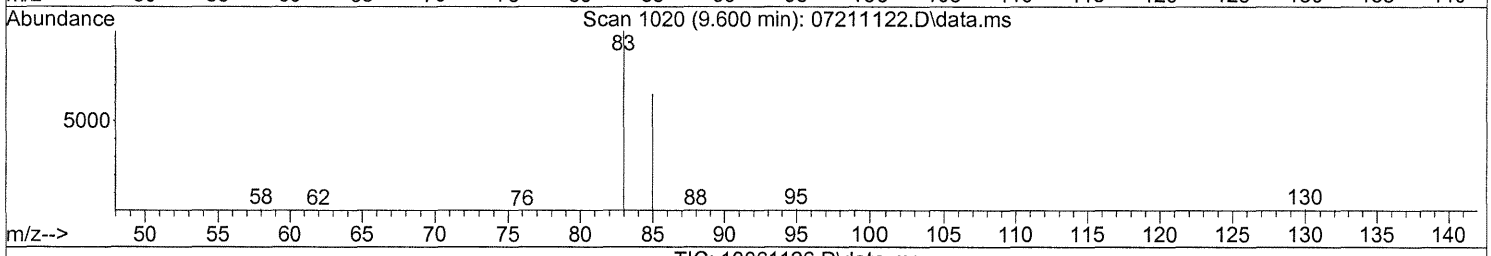
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:07:15 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061126.D\data.ms

(24) Bromodichloromethane (T)

9.607min (+0.007) 44.99pg

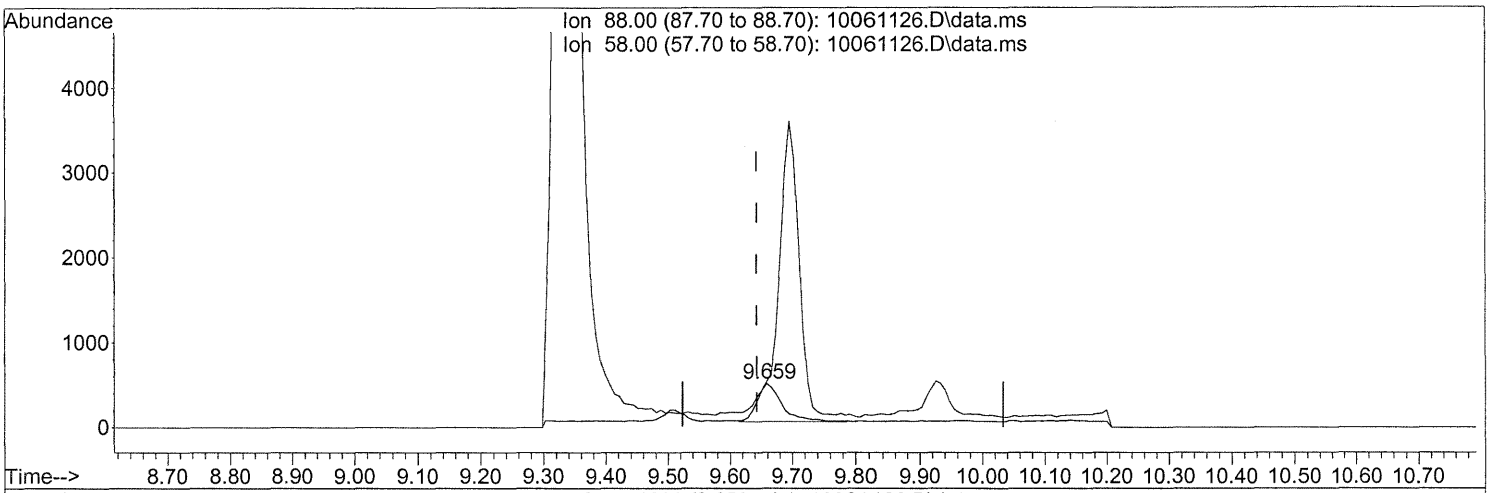
response 5506

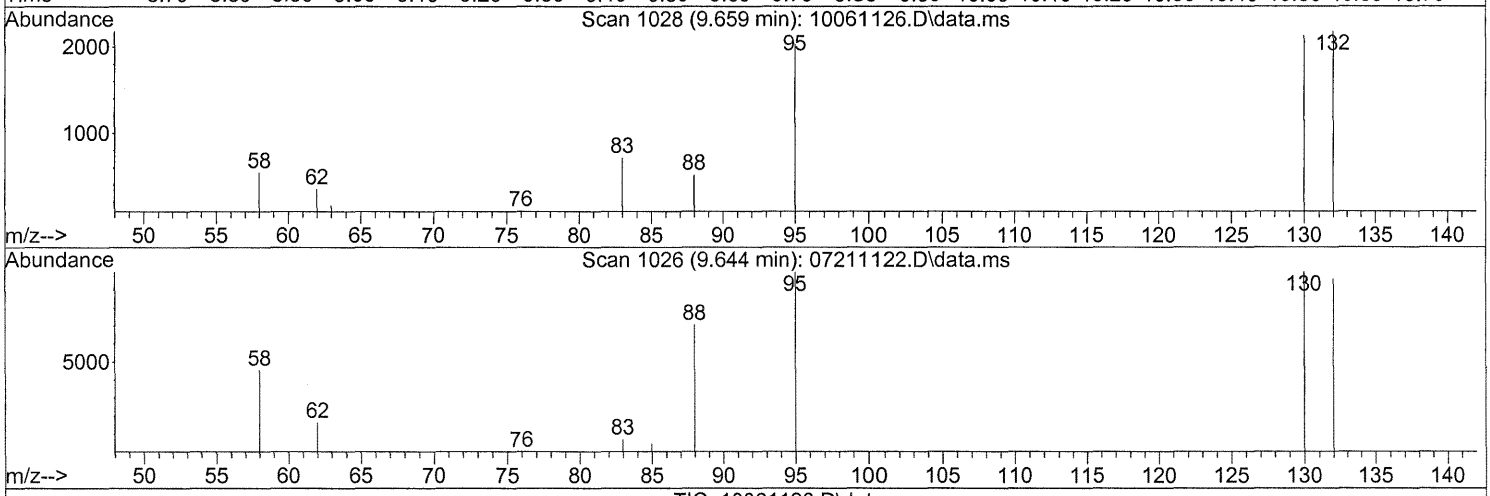
Ion	Exp%	Act%
83.00	100	100
85.00	63.50	13.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:07:15 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration





TIC: 10061126.D\data.ms

(26) 1,4-Dioxane (T)

9.659min (+0.015) 15.54pg

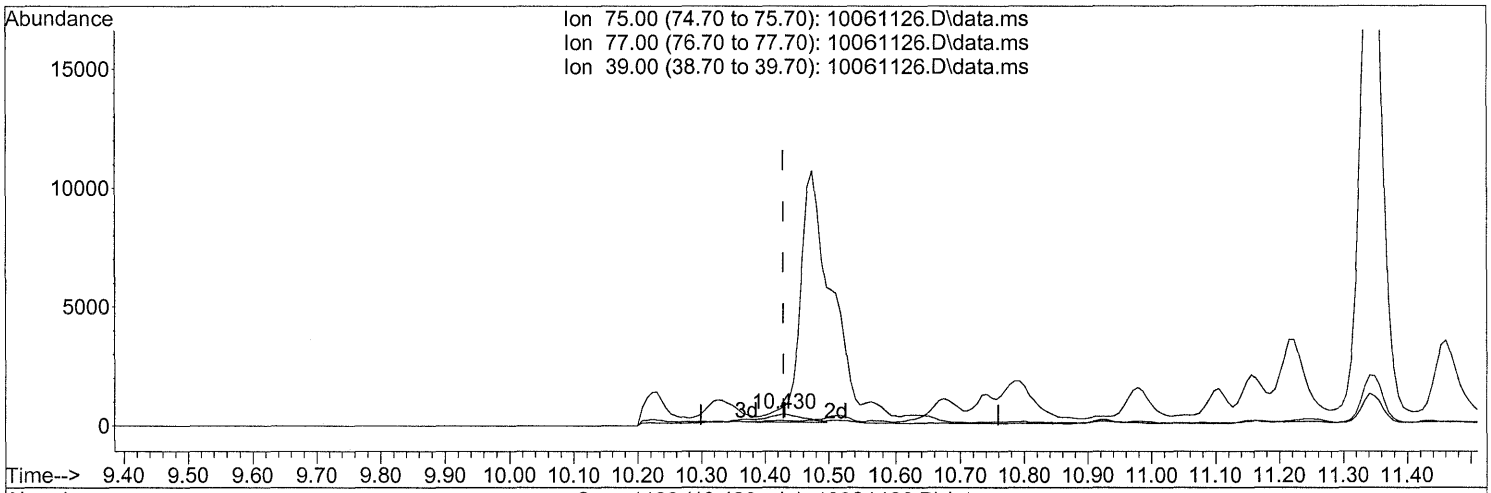
response 1226

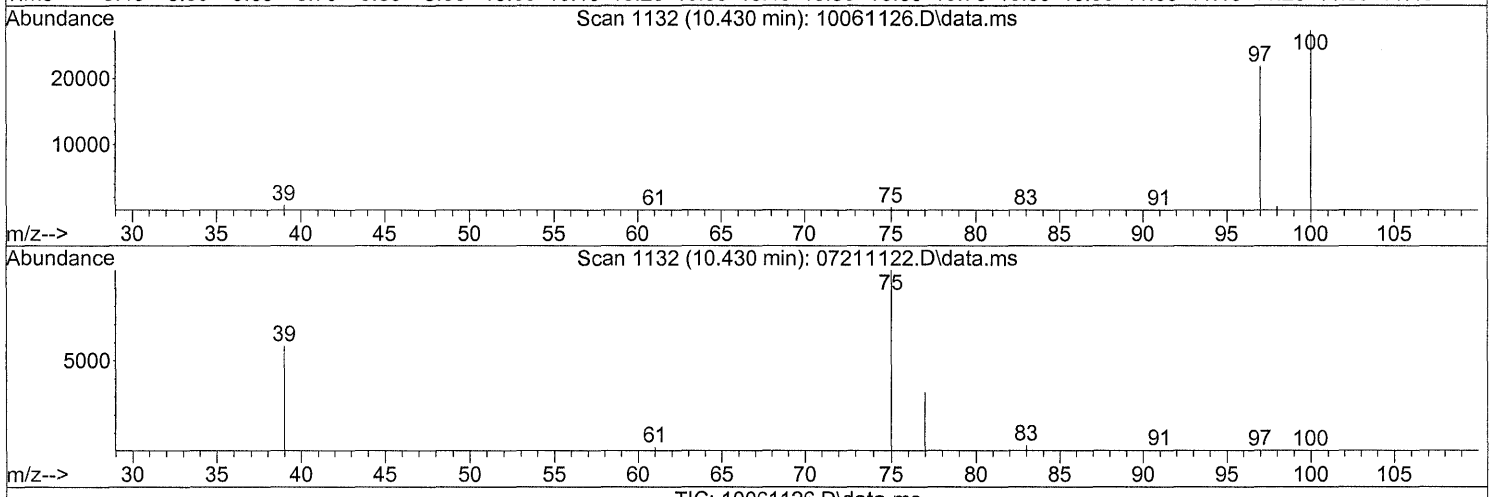
Ion	Exp%	Act%
88.00	100	100
58.00	63.80	634.99#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:07:15 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration





TIC: 10061126.D\data.ms

(27) cis-1,3-Dichloropropene (T)

10.430min (+0.000) 9.23pg

response 1357

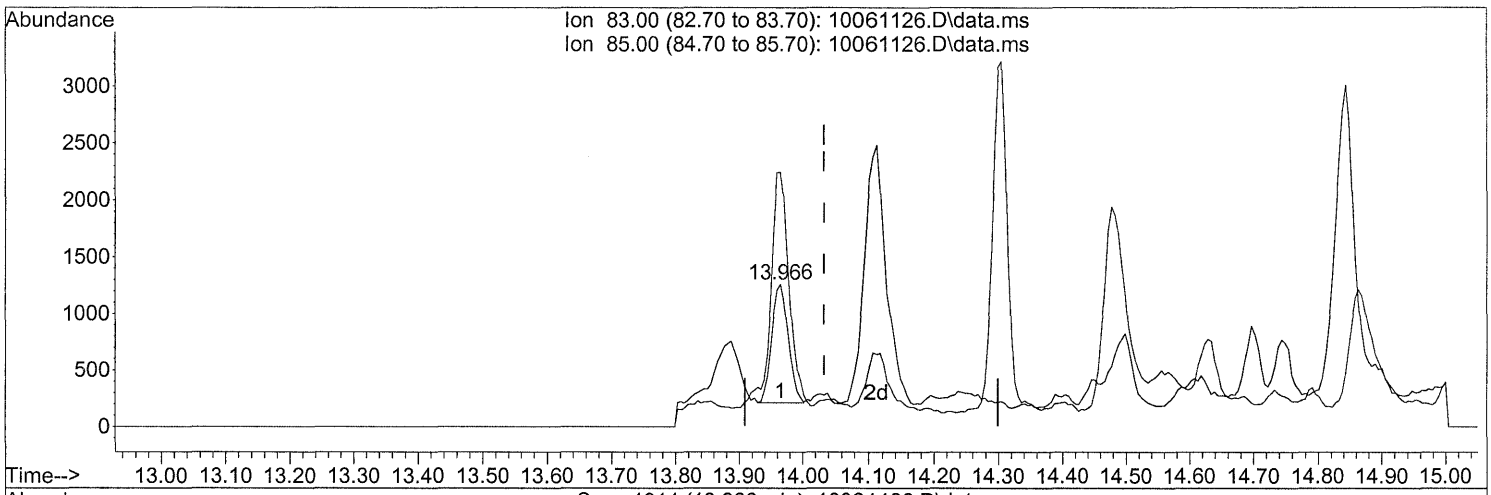
Ion	Exp%	Act%
75.00	100	100
77.00	32.40	17.02
39.00	55.40	0.00#
0.00	0.00	0.00

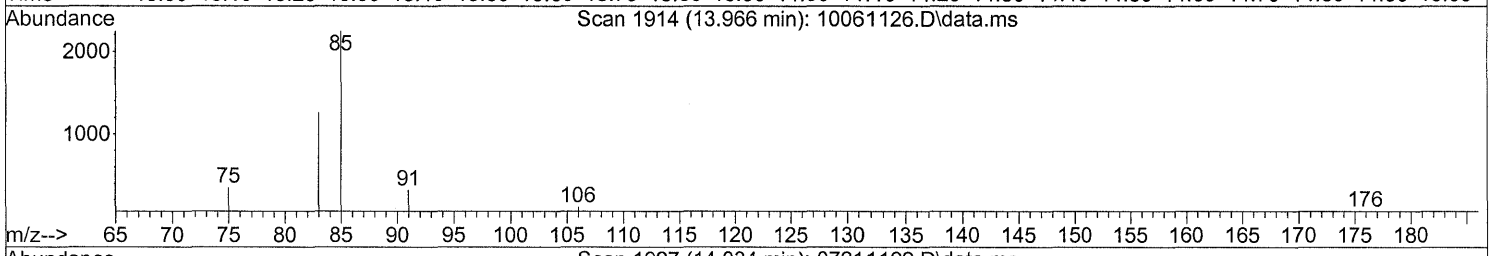
FP

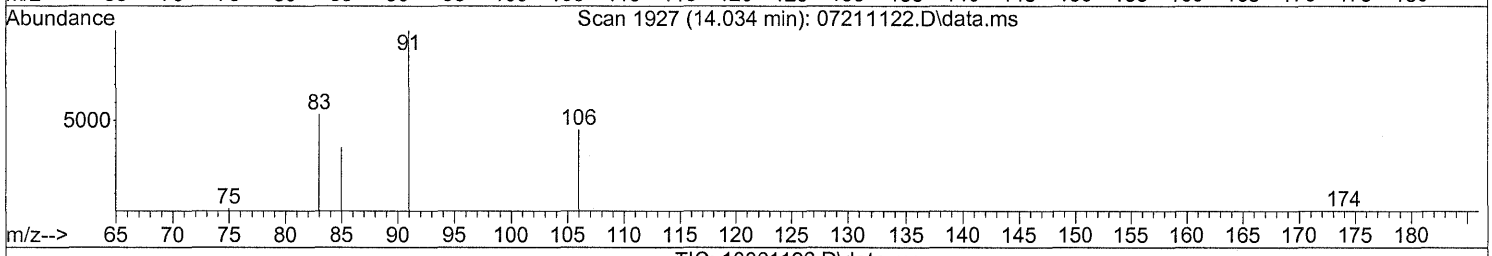
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:07:15 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061126.D\data.ms

(39) 1,1,2,2-Tetrachloroethane (T)

13.966min (-0.068) 11.61pg

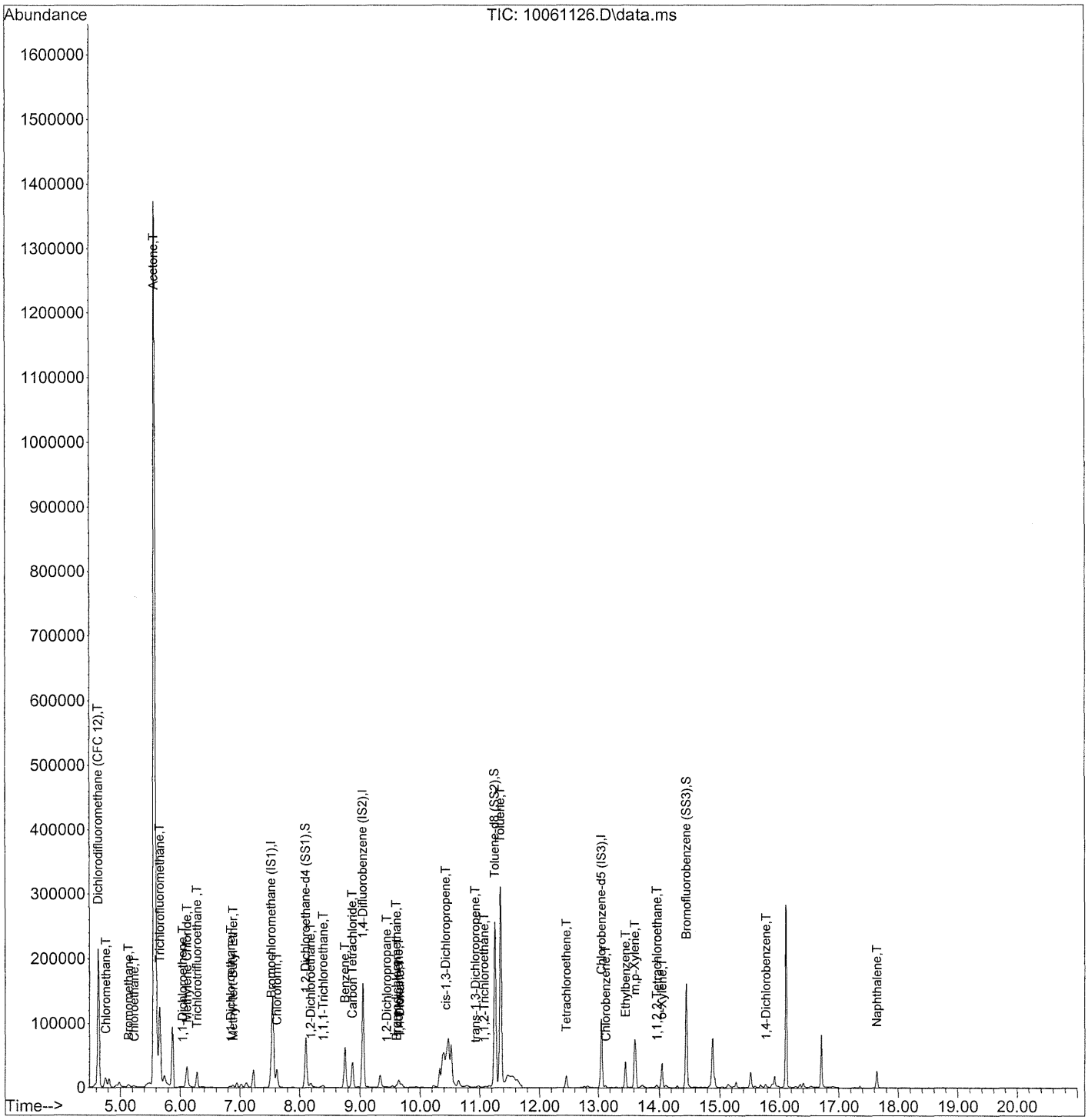
response 1906

Ion	Exp%	Act%
83.00	100	100
85.00	62.70	214.27#
0.00	0.00	0.00
0.00	0.00	0.00

TP

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:07:15 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:07:15 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	63897	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	297342	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	149075	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.10	65	119363	955.49	pg		0.00
Spiked Amount 1000.000			Recovery = 95.55%				
30) Toluene-d8 (SS2)	11.25	98	329125	1018.20	pg		0.00
Spiked Amount 1000.000			Recovery = 101.82%				
40) Bromofluorobenzene (SS3)	14.45	174	115487	973.00	pg		0.00
Spiked Amount 1000.000			Recovery = 97.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.63	85	273096	1455.64	pg		98
3) Chloromethane	4.76	52	10685	230.94	pg	#	70
4) Vinyl Chloride	4.90	62	297	N.D.			
5) Bromomethane	5.13	94	3964	53.47	pg		95
6) Chloroethane	5.23	64	2519	29.19	pg		95
7) Acetone	5.57	58	728949	9895.88	pg	#	87
8) Trichlorofluoromethane	5.66	101	133651	760.84	pg		99
9) 1,1-Dichloroethene	6.04	96	340	4.06	pg	#	10
10) Methylene Chloride	6.11	84	27159	271.71	pg		92
11) Trichlorotrifluoroethane	6.28	151	26007	321.87	pg		100
12) trans-1,2-Dichloroethene	6.71	96	198	N.D.			
13) 1,1-Dichloroethane	6.85	63	882	5.85	pg	#	7
14) Methyl tert-Butyl Ether	6.88	73	4883	15.76	pg		91
15) cis-1,2-Dichloroethene	7.41	96	143	N.D.			
16) Chloroform	7.62	83	35268	198.65	pg		97
18) 1,2-Dichloroethane	8.19	62	4642	32.58	pg		96
19) 1,1,1-Trichloroethane	8.39	97	3607	22.91	pg		98
20) Benzene	8.75	78	112637	272.64	pg		100
21) Carbon Tetrachloride	8.87	117	41865	339.63	pg		89
23) 1,2-Dichloropropane	9.44	63	723	7.73	pg	#	78
24) Bromodichloromethane	9.61	83	5506	44.99	pg	#	36
25) Trichloroethene	9.64	130	7275	69.63	pg		97
26) 1,4-Dioxane	9.66	88	1226	15.54	pg	#	1
27) cis-1,3-Dichloropropene	10.43	75	1357	9.23	pg	#	42
28) trans-1,3-Dichloropropene	10.93	75	538	3.98	pg	#	82
29) 1,1,2-Trichloroethane	11.08	83	475	6.38	pg	#	10
31) Toluene	11.35	91	395361	987.21	pg		100
32) 1,2-Dibromoethane	11.99	107	116	N.D.			
33) Tetrachloroethene	12.45	166	20535	183.23	pg		100
35) Chlorobenzene	13.13	112	2204	8.68	pg	#	60

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061126.D
Acq On : 6 Oct 2011 21:06
Operator : KR
Sample : P1103662-009 (1000mL)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 06:07:15 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

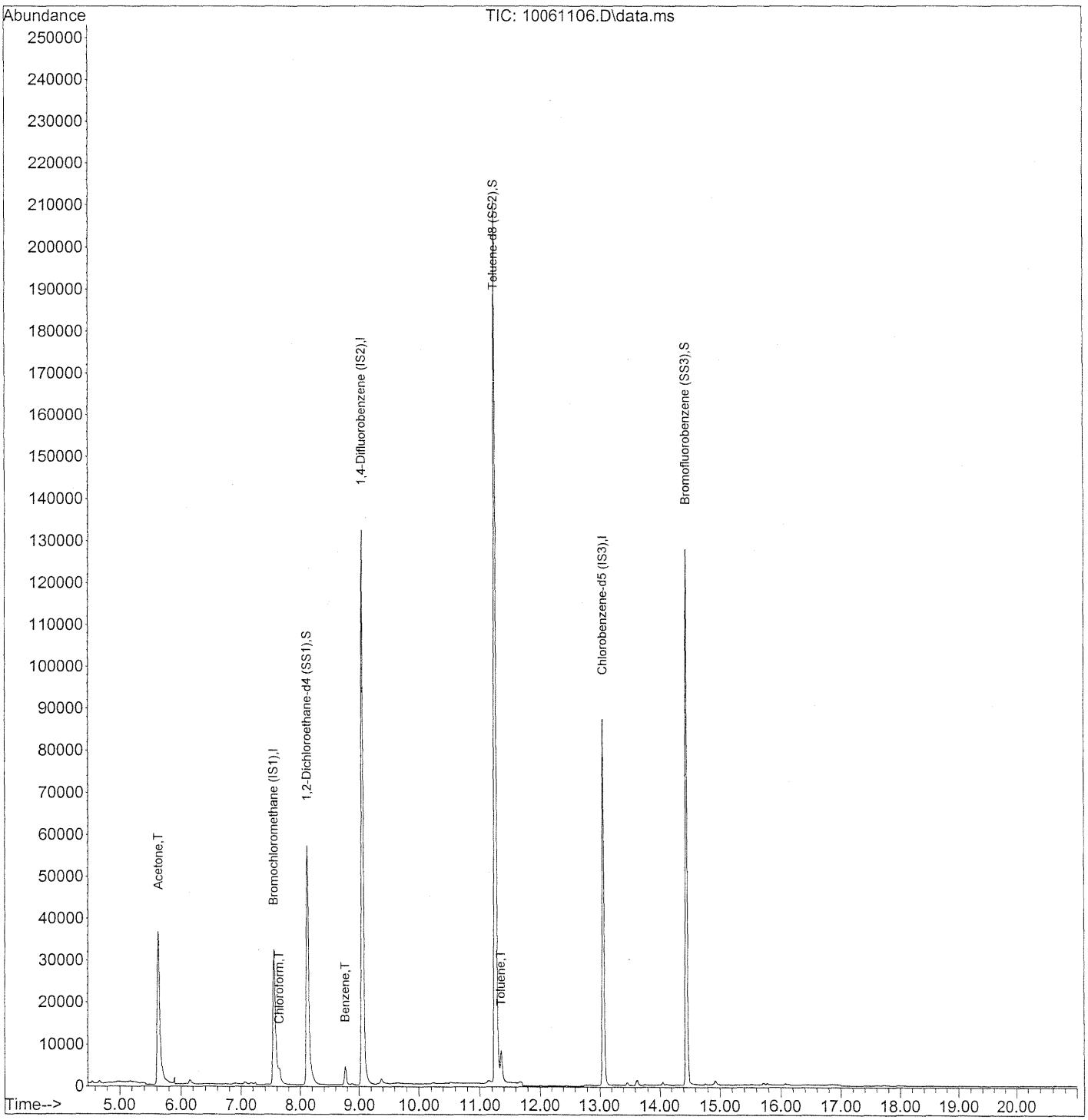
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Ethylbenzene	13.46	91	55856	124.95	pg		98
37) m,p-Xylene	13.62	91	119361	327.95	pg		99
38) o-Xylene	14.04	91	45669	123.00	pg		98
39) 1,1,2,2-Tetrachloroethane	13.97	83	1906	11.61	pg	#	1
41) 1,3-Dichlorobenzene	15.69	146	501	N.D.			
42) 1,4-Dichlorobenzene	15.77	146	4292	19.37	pg		98
43) 1,2-Dichlorobenzene	16.06	146	253	N.D.			
44) 1,2,4-Trichlorobenzene	17.56	182	241	N.D.			
45) Naphthalene	17.64	128	40123	73.64	pg		97
46) Hexachlorobutadiene	17.97	225	55	N.D.			

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061106.D
Acq On : 6 Oct 2011 9:03
Operator : KR
Sample : TO-15/SIM Method Blank(1000mL)
Misc : S25-09061101
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 06:17:55 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061106.D
Acq On : 6 Oct 2011 9:03
Operator : KR
Sample : TO-15/SIM Method Blank(1000mL)
Misc : S25-09061101
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 06:17:55 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane (IS1)	7.55	130	58491	1000.00 pg	0.02
22) 1,4-Difluorobenzene (IS2)	9.06	114	265288	1000.00 pg	0.01
34) Chlorobenzene-d5 (IS3)	13.06	82	129910	1000.00 pg	0.00
System Monitoring Compounds					
17) 1,2-Dichloroethane-d4 ...	8.12	65	110916	969.93 pg	0.02
Spiked Amount 1000.000			Recovery	= 96.99%	
30) Toluene-d8 (SS2)	11.26	98	291458	1010.62 pg	0.00
Spiked Amount 1000.000			Recovery	= 101.06%	
40) Bromofluorobenzene (SS3)	14.45	174	96559	933.54 pg	0.00
Spiked Amount 1000.000			Recovery	= 93.35%	
Target Compounds					Qvalue
2) Dichlorodifluoromethan...	4.67	85	830	N.D.	
3) Chloromethane	4.80	52	135	N.D.	
4) Vinyl Chloride	4.94	62	171	N.D.	
5) Bromomethane	5.17	94	258	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Acetone	5.63	58	30228	448.29 pg	# 79
8) Trichlorofluoromethane	5.70	101	381	N.D.	
9) 1,1-Dichloroethene	6.04	96	19	N.D.	
10) Methylene Chloride	6.15	84	900	N.D.	
11) Trichlorotrifluoroethane	6.31	151	126	N.D.	
12) trans-1,2-Dichloroethene	6.74	96	123	N.D.	
13) 1,1-Dichloroethane	6.86	63	58	N.D.	
14) Methyl tert-Butyl Ether	6.88	73	115	N.D.	
15) cis-1,2-Dichloroethene	7.43	96	129	N.D.	
16) Chloroform	7.64	83	2925	18.00 pg	100
18) 1,2-Dichloroethane	8.21	62	177	N.D.	
19) 1,1,1-Trichloroethane	8.41	97	126	N.D.	
20) Benzene	8.77	78	8441	22.32 pg	99
21) Carbon Tetrachloride	8.89	117	309	N.D.	
23) 1,2-Dichloropropane	9.47	63	113	N.D.	
24) Bromodichloromethane	9.62	83	176	N.D.	
25) Trichloroethene	9.66	130	171	N.D.	
26) 1,4-Dioxane	9.65	88	4	N.D.	
27) cis-1,3-Dichloropropene	10.45	75	167	N.D.	
28) trans-1,3-Dichloropropene	10.96	75	171	N.D.	
29) 1,1,2-Trichloroethane	11.10	83	85	N.D.	
31) Toluene	11.36	91	9148	25.60 pg	99
32) 1,2-Dibromoethane	12.00	107	126	N.D.	
33) Tetrachloroethene	12.46	166	147	N.D.	
35) Chlorobenzene	13.10	112	413	N.D.	

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061106.D
Acq On : 6 Oct 2011 9:03
Operator : KR
Sample : TO-15/SIM Method Blank(1000mL)
Misc : S25-09061101
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 06:17:55 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

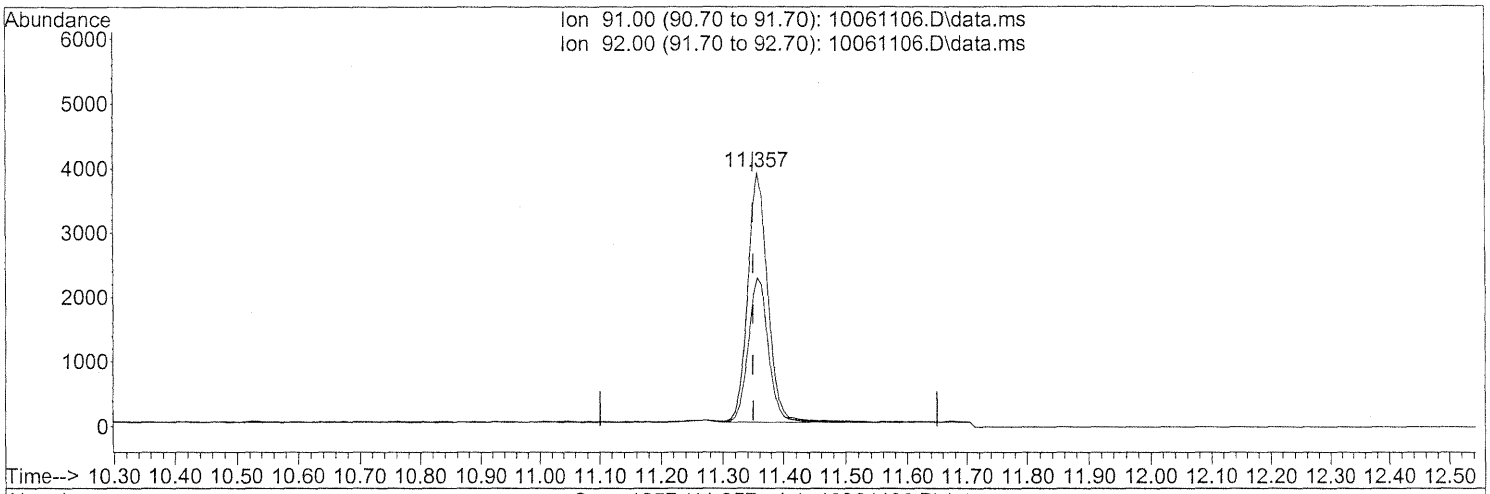
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Ethylbenzene	13.47	91	1017	N.D.	
37) m,p-Xylene	13.63	91	2187	N.D.	
38) o-Xylene	14.05	91	751	N.D.	
39) 1,1,2,2-Tetrachloroethane	14.04	83	190	N.D.	
41) 1,3-Dichlorobenzene	15.73	146	370	N.D.	
42) 1,4-Dichlorobenzene	15.79	146	395	N.D.	
43) 1,2-Dichlorobenzene	16.08	146	311	N.D.	
44) 1,2,4-Trichlorobenzene	17.61	182	253	N.D.	
45) Naphthalene	17.73	128	752	N.D.	
46) Hexachlorobutadiene	17.97	225	129	N.D.	

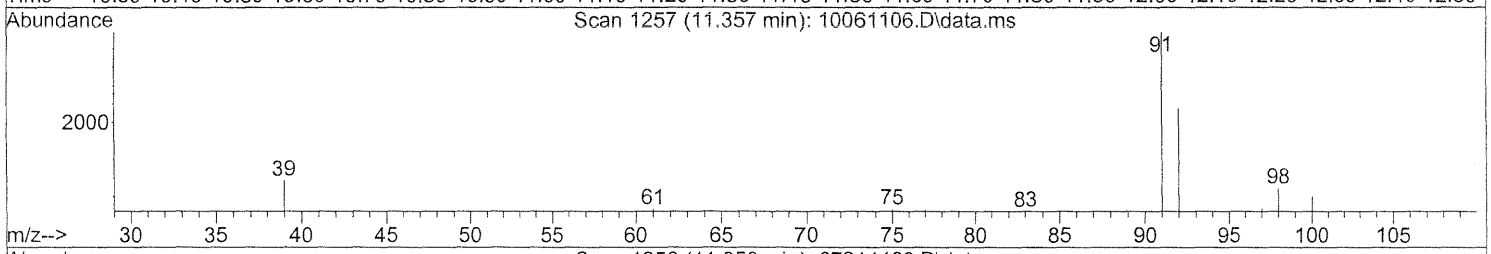
(#) = qualifier out of range (m) = manual integration (+) = signals summed

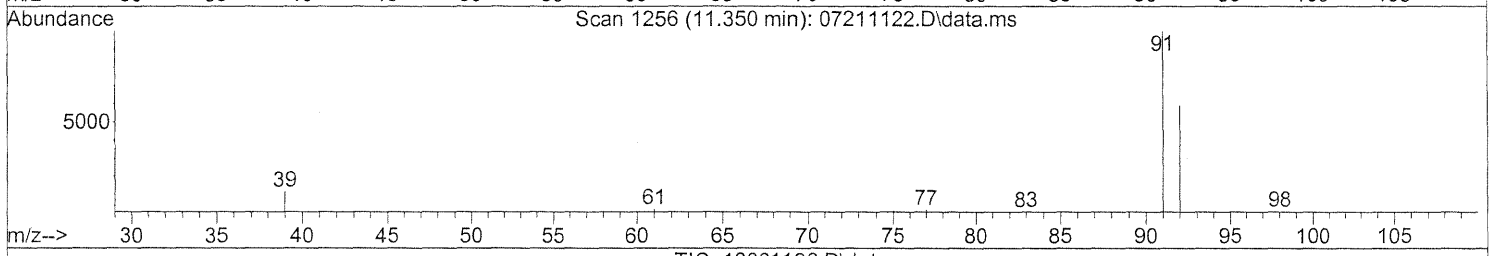
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061106.D
Acq On : 6 Oct 2011 9:03
Operator : KR
Sample : TO-15/SIM Method Blank(1000mL)
Misc : S25-09061101
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 06:17:55 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration







TIC: 10061106.D\data.ms

(31) Toluene (T)

11.357min (+0.007) 25.60pg

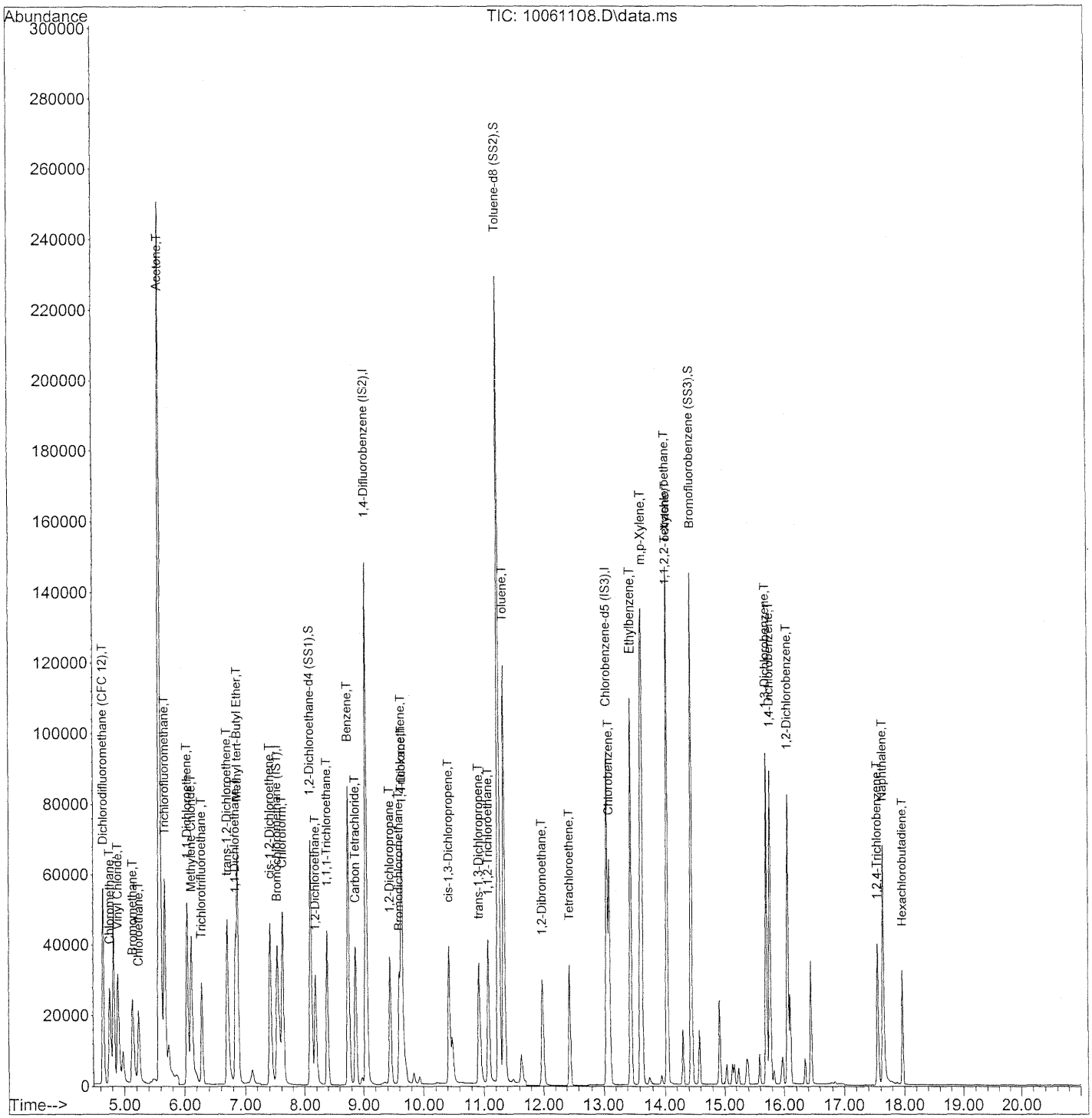
response 9148

Ion	Exp%	Act%
91.00	100	100
92.00	58.20	57.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 11:06
Operator : KR
Sample : 500pg TO-15/SIM LCS STD (125mL)
Misc : S25-09061101/S25-09231111
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 07 06:09:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 11:06
Operator : KR
Sample : 500pg TO-15/SIM LCS STD (125mL)
Misc : S25-09061101/S25-09231111
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 07 06:09:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	60054	1000.00 pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	280270	1000.00 pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	133904	1000.00 pg	0.00
System Monitoring Compounds					
17) 1,2-Dichloroethane-d4 ...	8.10	65	117677	1002.27 pg	0.00
Spiked Amount 1000.000			Recovery = 100.23%		
30) Toluene-d8 (SS2)	11.25	98	298333	979.16 pg	0.00
Spiked Amount 1000.000			Recovery = 97.92%		
40) Bromofluorobenzene (SS3)	14.45	174	106181	995.95 pg	0.00
Spiked Amount 1000.000			Recovery = 99.59%		
Target Compounds					Qvalue
2) Dichlorodifluoromethan...	4.65	85	74484	422.42 pg	98
3) Chloromethane	4.76	52	17874	411.04 pg	96
4) Vinyl Chloride	4.89	62	59466	380.78 pg	98
5) Bromomethane	5.14	94	32214	462.38 pg	99
6) Chloroethane	5.24	64	33518	413.25 pg	99
7) Acetone	5.58	58	152475	2202.39 pg	94
8) Trichlorofluoromethane	5.67	101	63545	384.89 pg	99
9) 1,1-Dichloroethene	6.05	96	34662	440.82 pg	94
10) Methylene Chloride	6.12	84	36240	385.77 pg	84
11) Trichlorotrifluoroethane	6.28	151	32121	422.98 pg	99
12) trans-1,2-Dichloroethene	6.71	96	35162	381.50 pg	95
13) 1,1-Dichloroethane	6.84	63	62749	442.58 pg	99
14) Methyl tert-Butyl Ether	6.88	73	107756	370.03 pg	96
15) cis-1,2-Dichloroethene	7.42	96	39495	419.65 pg	96
16) Chloroform	7.62	83	67093	402.10 pg	99
18) 1,2-Dichloroethane	8.19	62	55606	415.27 pg	97
19) 1,1,1-Trichloroethane	8.39	97	55585	375.71 pg	99
20) Benzene	8.75	78	154567	398.07 pg	100
21) Carbon Tetrachloride	8.87	117	43652	376.79 pg	99
23) 1,2-Dichloropropane	9.44	63	38376	435.57 pg	98
24) Bromodichloromethane	9.60	83	45406	393.63 pg	99
25) Trichloroethene	9.64	130	39485	400.96 pg	99
26) 1,4-Dioxane	9.65	88	27930	375.64 pg	96
27) cis-1,3-Dichloropropene	10.43	75	49748	358.97 pg	99
28) trans-1,3-Dichloropropene	10.93	75	47885	375.55 pg	100
29) 1,1,2-Trichloroethane	11.08	83	28887	411.65 pg	97
31) Toluene	11.35	91	151975	402.59 pg	100
32) 1,2-Dibromoethane	11.99	107	37576	388.35 pg	98
33) Tetrachloroethene	12.45	166	39084	369.98 pg	100
35) Chlorobenzene	13.09	112	96351	422.24 pg	99

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 11:06
Operator : KR
Sample : 500pg TO-15/SIM LCS STD (125mL)
Misc : S25-09061101/S25-09231111
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 07 06:09:56 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	154777	385.45	pg	99
37) m,p-Xylene	13.63	91	246317	753.44	pg	97
38) o-Xylene	14.04	91	127357	381.86	pg	97
39) 1,1,2,2-Tetrachloroethane	14.03	83	58432	396.19	pg	98
41) 1,3-Dichlorobenzene	15.71	146	79347	400.60	pg	99
42) 1,4-Dichlorobenzene	15.77	146	81287	408.43	pg	100
43) 1,2-Dichlorobenzene	16.07	146	74913	393.46	pg	99
44) 1,2,4-Trichlorobenzene	17.55	182	45943	341.69	pg	100
45) Naphthalene	17.64	128	134476	274.78	pg	100
46) Hexachlorobutadiene	17.97	225	30134	384.88	pg	100

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

Response Factor Report MS07

Method : J:\Ms07\METHODS\X7072111A.M (RTE Integrator)
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Calibration Files
10 =07211118.D 25 =07211119.D 75 =07211120.D 100 =07211121.D 500 =07211122.D
1000 =07211123.D 2500 =07211124.D 9999 =07211125.D 20K =07211126.D =

		Compound	10	25	75	100	500	1000	2500	9999	20K	Avg	%RSD
1)	I	Bromochloromethan	ISTD										
2)	T	Dichlorodifluorom		3.408	3.219	3.800	3.075	2.969	2.801	2.217	2.001	2.936	20.27
3)	T	Chloromethane		1.167	0.738	0.973	0.697	0.616	0.422	0.620	0.560	0.724	32.97
4)	T	Vinyl Chloride	4.203	2.946	2.585	3.061	2.454	2.371	2.160	1.885	1.739	2.600	28.60
5)	T	Bromomethane		1.129	0.809	1.658	1.191	1.116	0.981	1.248	1.149	1.160	21.00
6)	T	Chloroethane		1.730	1.533	1.653	1.302	1.273	1.182	1.121	1.011	1.351	19.25
7)	T	Acetone				1.854	1.150	1.072	0.965	0.982	0.894	1.153	30.80
8)	T	Trichlorofluorome		2.956	2.694	3.268	2.671	2.653	2.555	2.713	2.482	2.749	9.13
9)	T	1,1-Dichloroethen		1.419	1.286	1.555	1.289	1.233	1.209	1.269	1.215	1.309	9.12
10)	T	Methylene Chlorid		2.234	1.718	1.817	1.396	1.376	1.336	1.375	1.262	1.564	21.34
11)	T	Trichlorotrifluor		1.388	1.317	1.469	1.237	1.192	1.179	1.175	1.160	1.265	9.09
12)	T	trans-1,2-Dichlor		1.644	1.547	1.838	1.494	1.479	1.421	1.488	1.368	1.535	9.59
13)	T	1,1-Dichloroethan		2.418	2.263	2.904	2.227	2.255	2.149	2.399	2.272	2.361	10.02
14)	T	Methyl tert-Butyl		5.376	4.905	5.885	4.724	4.683	4.416	4.592	4.213	4.849	11.18
15)	T	cis-1,2-Dichloroe		1.696	1.508	1.968	1.522	1.509	1.411	1.503	1.419	1.567	11.73
16)	T	Chloroform				4.719	2.657	2.459	2.199	2.426	2.211	2.778	34.76
17)	S	1,2-Dichloroethan	2.019	2.020	1.974	2.040	2.040	1.942	1.947	1.848	1.767	1.955	4.79
18)	T	1,2-Dichloroethan		2.352	2.254	2.722	2.203	2.213	2.039	2.114	1.941	2.230	10.61
19)	T	1,1,1-Trichloroet		2.717	2.560	2.968	2.419	2.357	2.209	2.305	2.174	2.464	11.01
20)	T	Benzene			8.190	9.391	6.040	5.767	5.316	5.509	5.047	6.466	25.61
21)	T	Carbon Tetrachlor		2.116	1.938	2.261	1.838	1.836	1.739	1.901	1.803	1.929	9.09
22)	I	1,4-Difluorobenze	ISTD										
23)	T	1,2-Dichloropropa		0.340	0.319	0.380	0.307	0.299	0.279	0.303	0.287	0.314	10.39
24)	T	Bromodichlorometh		0.431	0.408	0.482	0.398	0.385	0.373	0.413	0.404	0.412	8.10
25)	T	Trichloroethene	0.476	0.372	0.328	0.404	0.321	0.316	0.298	0.330	0.317	0.351	16.17
26)	T	1,4-Dioxane		0.330	0.278	0.308	0.243	0.237	0.229	0.255	0.242	0.265	13.82
27)	T	cis-1,3-Dichlorop		0.502	0.482	0.567	0.470	0.463	0.460	0.511	0.499	0.494	7.09
28)	T	trans-1,3-Dichlor		0.459	0.433	0.514	0.431	0.434	0.425	0.487	0.457	0.455	6.91

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MS07

Method : J:\Ms07\METHODS\X7072111A.M (RTE Integrator)
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Calibration Files
10 =07211118.D 25 =07211119.D 75 =07211120.D 100 =07211121.D 500 =07211122.D
1000 =07211123.D 2500 =07211124.D 9999 =07211125.D 20K =07211126.D =

		Compound	10	25	75	100	500	1000	2500	9999	20K	Avg	%RSD
29)	T	1,1,2-Trichloroet		0.270	0.248	0.301	0.242	0.235	0.225	0.251	0.231	0.250	9.88
30)	S	Toluene-d8 (SS2)	1.118	1.095	1.109	1.055	1.079	1.061	1.094	1.079	1.093	1.087	1.88
31)	T	Toluene		1.658	1.389	1.569	1.254	1.207	1.179	1.280	1.239	1.347	13.16
32)	T	1,2-Dibromoethane	0.422	0.355	0.329	0.390	0.319	0.317	0.304	0.346	0.326	0.345	11.09
33)	T	Tetrachloroethene	0.496	0.392	0.358	0.416	0.343	0.330	0.324	0.367	0.367	0.377	14.11
34)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	----------	----------		
35)	T	Chlorobenzene		1.801	1.679	2.013	1.659	1.601	1.514	1.706	1.660	1.704	8.76
36)	T	Ethylbenzene		3.276	2.954	3.521	2.859	2.816	2.670	3.013	2.881	2.999	9.15
37)	T	m,p-Xylene		2.654	2.368	2.842	2.293	2.273	2.203	2.492	2.407	2.441	8.78
38)	T	o-Xylene		2.577	2.373	2.923	2.339	2.296	2.285	2.593	2.539	2.491	8.64
39)	T	1,1,2,2-Tetrachlo		1.116	1.041	1.228	1.075	1.041	0.989	1.153	1.168	1.101	7.19
40)	S	Bromofluorobenzen	0.755	0.753	0.766	0.758	0.756	0.766	0.790	0.874	0.949	0.796	8.64
41)	T	1,3-Dichlorobenze		1.456	1.384	1.636	1.379	1.345	1.316	1.666	1.651	1.479	10.02
42)	T	1,4-Dichlorobenze		1.483	1.374	1.610	1.399	1.354	1.342	1.665	1.664	1.486	9.43
43)	T	1,2-Dichlorobenze		1.367	1.327	1.550	1.323	1.288	1.288	1.623	1.607	1.422	10.26
44)	T	1,2,4-Trichlorobe		1.031	0.981	1.101	0.899	0.879	0.875	1.109	1.158	1.004	11.20
45)	T	Naphthalene		3.492	3.417	3.912	3.340	3.317	3.312	4.280	4.168	3.655	11.01
46)	T	Hexachlorobutadie		0.596	0.560	0.660	0.518	0.503	0.503	0.655	0.683	0.585	12.77

(#) = Out of Range ### Number of calibration levels exceeded format ###

TO-15 (SIM) INITIAL CALIBRATION CONCENTRATIONS

0.2ng/L Working Standard ID: **S25-07191108**
4ng/L Working Standard ID: **S25-07191106**
5ng/L Working Standard ID: **0**
20ng/L Working Standard ID: **0**
50ng/L Working Standard ID: **0**
200ng/L Working Standard ID: **S25-07181105**

Std. Canister Utilized (ng/L)	0.2	0.2	0.2	4	4	4	4	200	200
Injection Amt(mL)	**50**	**125**	**375**	**25**	**125**	**250**	**625**	**50**	**100**
Compound Name	**Conc. 10pg**	**Conc. 25pg**	**Conc. 75pg**	**Conc. 100pg**	**Conc. 500pg**	**Conc. 1000pg**	**Conc. 2500pg**	**Conc. 10,000pg**	**Conc. 20,000pg**
Freon-12	9.90	24.8	74.3	99.0	495	990	2480	9900	19800
Chloromethane	9.60	24.0	72.0	96.0	480	960	2400	9600	19200
Vinyl Chloride	9.70	24.3	72.8	97.0	485	970	2430	9700	19400
Bromomethane	9.70	24.3	72.8	97.0	485	970	2430	9700	19400
Chloroethane	9.70	24.3	72.8	97.0	485	970	2430	9700	19400
Acetone	52.2	131	392	522	2610	5220	13100	52200	104000
Freon-11	9.90	24.8	74.3	99.0	495	990	2480	9900	19800
1,1-Dichloroethene	10.7	26.8	80.3	107	535	1070	2680	10700	21400
Methylene Chloride	10.4	26.0	78.0	104	520	1040	2600	10400	20800
Freon-113	10.4	26.0	78.0	104	520	1040	2600	10400	20800
trans-1,2-Dichloroethene	10.2	25.5	76.5	102	510	1020	2550	10200	20400
1,1-Dichloroethane	10.1	25.3	75.8	101	505	1010	2530	10100	20200
Methyl tert-Butyl Ether	10.3	25.8	77.3	103	515	1030	2580	10300	20600
cis-1,2-Dichloroethene	10.4	26.0	78.0	104	520	1040	2600	10400	20800
Chloroform	10.4	26.0	78.0	104	520	1040	2600	10400	20800
1,2-Dichloroethane	10.1	25.3	75.8	101	505	1010	2530	10100	20200
1,1,1-Trichloroethane	10.0	25.0	75.0	100	500	1000	2500	10000	20000
Benzene	10.5	26.3	78.8	105	525	1050	2630	10500	21000
Carbon Tetrachloride	10.6	26.5	79.5	106	530	1060	2650	10600	21200
1,2-Dichloropropane	10.0	25.0	75.0	100	500	1000	2500	10000	20000
Bromodichloromethane	10.3	25.8	77.3	103	515	1030	2580	10300	20600
Trichloroethene	9.90	24.8	74.3	99.0	495	990	2480	9900	19800
1,4-Dioxane	10.4	26.0	78.0	104	520	1040	2600	10400	20800
cis-1,3-Dichloropropene	9.50	23.8	71.3	95.0	475	950	2380	9500	19000
trans-1,3-Dichloropropene	10.6	26.5	79.5	106	530	1060	2650	10600	21200
1,1,2-Trichloroethane	9.90	24.8	74.3	99.0	495	990	2480	9900	19800
Toluene	10.2	25.5	76.5	102	510	1020	2550	10200	20400
1,2-Dibromoethane	10.1	25.3	75.8	101	505	1010	2530	10100	20200
Tetrachloroethene	9.30	23.3	69.8	93.0	465	930	2330	9300	18600
Chlorobenzene	10.2	25.5	76.5	102	510	1020	2550	10200	20400
Ethylbenzene	10.0	25.0	75.0	100	500	1000	2500	10000	20000
m,p-Xylenes	19.8	49.5	149	198	990	1980	4950	19800	39600
o-Xylene	9.80	24.5	73.5	98.0	490	980	2450	9800	19600
1,1,2,2-Tetrachloroethane	9.50	23.8	71.3	95.0	475	950	2380	9500	19000
1,3-Dichlorobenzene	10.3	25.8	77.3	103	515	1030	2580	10300	20600
1,4-Dichlorobenzene	10.3	25.8	77.3	103	515	1030	2580	10300	20600
1,2-Dichlorobenzene	10.0	25.0	75.0	100	500	1000	2500	10000	20000
1,2,4-Trichlorobenzene	10.2	25.5	76.5	102	510	1020	2550	10200	20400
Naphthalene	9.10	22.8	68.3	91.0	455	910	2280	9100	18200
Hexachloro-1,3-butadiene	10.3	25.8	77.3	103	515	1030	2580	10300	20600

Calibration Status Report MS07

Method : J:\Ms07\METHODS\X7072111A.M (RTE Integrator)
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	10	10	1000	J:\Ms07\DATA\2011_07\21\07211118.D
2	25	25	1000	J:\Ms07\DATA\2011_07\21\07211119.D
3	75	74	1000	J:\Ms07\DATA\2011_07\21\07211120.D
4	100	99	1000	J:\Ms07\DATA\2011_07\21\07211121.D
5	500	495	1000	J:\Ms07\DATA\2011_07\21\07211122.D
6	1000	990	1000	J:\Ms07\DATA\2011_07\21\07211123.D
7	2500	2480	1000	J:\Ms07\DATA\2011_07\21\07211124.D
8	9999	9900	1000	J:\Ms07\DATA\2011_07\21\07211125.D
9	20K	19800	1000	J:\Ms07\DATA\2011_07\21\07211126.D

#	ID	Update Time	Quant Time	Acquisition Time
1	10	Oct 06 11:07 2011	Jul 22 07:26 2011	21 Jul 2011 8:10 pm
2	25	Jul 22 08:33 2011	Jul 22 07:27 2011	21 Jul 2011 8:39 pm
3	75	Jul 22 08:33 2011	Jul 22 07:25 2011	21 Jul 2011 9:08 pm
4	100	Jul 22 08:33 2011	Jul 22 07:25 2011	21 Jul 2011 9:42 pm
5	500	Jul 22 08:33 2011	Jul 22 07:25 2011	21 Jul 2011 10:11 pm
6	1000	Jul 22 08:34 2011	Jul 22 07:25 2011	21 Jul 2011 10:41 pm
7	2500	Jul 22 08:34 2011	Jul 22 07:25 2011	21 Jul 2011 11:10 pm
8	9999	Jul 22 08:34 2011	Jul 22 07:25 2011	21 Jul 2011 11:44 pm
9	20K	Jul 22 08:34 2011	Jul 22 07:36 2011	22 Jul 2011 12:13 am

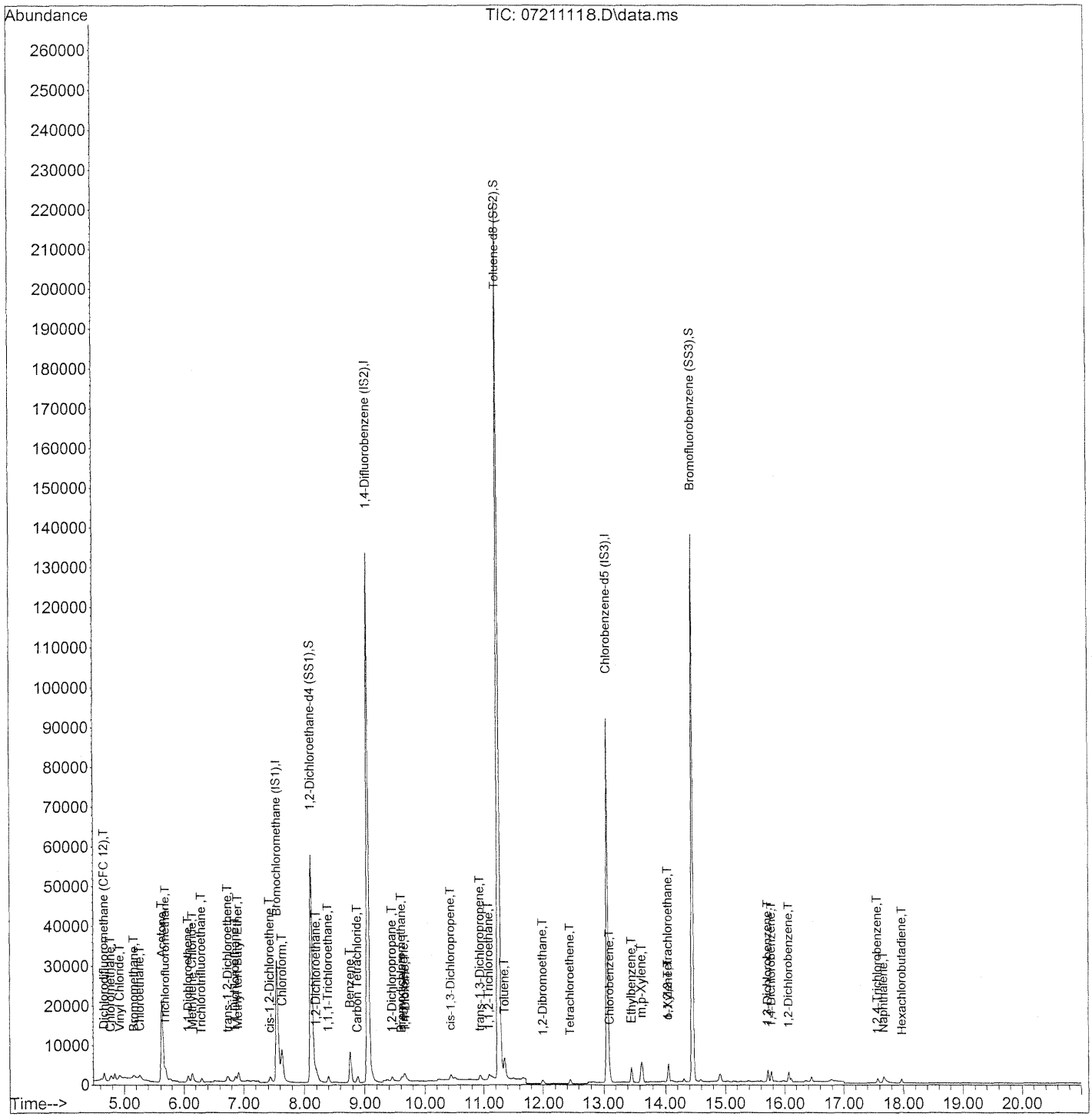
X7072111A.M Fri Oct 07 15:28:40 2011

10/7/11

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211118.D
Acq On : 21 Jul 2011 8:10 pm
Operator : KR
Sample : 10pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:26:04 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211118.D
Acq On : 21 Jul 2011 8:10 pm
Operator : KR
Sample : 10pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:26:04 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.55	130	54155	1000.00	pg		0.02
22) 1,4-Difluorobenzene (IS2)	9.06	114	264570	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.06	82	133100	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.12	65	109354	1220.32	pg		0.01
Spiked Amount 1000.000			Recovery = 122.03%				
30) Toluene-d8 (SS2)	11.26	98	295674	1121.25	pg		0.00
Spiked Amount 1000.000			Recovery = 112.13%				
40) Bromofluorobenzene (SS3)	14.45	174	100432	850.61	pg		0.00
Spiked Amount 1000.000			Recovery = 85.06%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.67	85	2809	20.37	pg		96
3) Chloromethane	4.77	52	811	23.90	pg	#	77
4) Vinyl Chloride	4.93	62	2208	21.84	pg		92
5) Bromomethane	5.17	94	1090m	17.95	pg		
6) Chloroethane	5.26	64	1352m	23.34	pg		
7) Acetone	5.63	58	18698	362.24	pg	#	65
8) Trichlorofluoromethane	5.69	101	2214	17.74	pg		98
9) 1,1-Dichloroethene	6.07	96	1185	19.97	pg		97
10) Methylene Chloride	6.15	84	2009	28.38	pg		95
11) Trichlorotrifluoroethane	6.30	151	1139	17.74	pg		97
12) trans-1,2-Dichloroethene	6.74	96	1199	18.34	pg		96
13) 1,1-Dichloroethane	6.86	63	1967	18.28	pg		100
14) Methyl tert-Butyl Ether	6.91	73	4064	23.36	pg		98
15) cis-1,2-Dichloroethene	7.43	96	1114	17.30	pg		89
16) Chloroform	7.64	83	10268	91.11	pg		100
18) 1,2-Dichloroethane	8.20	62	1734	18.82	pg		96
19) 1,1,1-Trichloroethane	8.40	97	2075	20.19	pg		98
20) Benzene	8.76	78	14632	52.13	pg		100
21) Carbon Tetrachloride	8.88	117	1769	20.15	pg		99
23) 1,2-Dichloropropane	9.46	63	1191	15.71	pg		94
24) Bromodichloromethane	9.61	83	1599	15.78	pg		94
25) Trichloroethene	9.66	130	1246	12.95	pg		92
26) 1,4-Dioxane	9.68	88	1271	19.93	pg	#	67
27) cis-1,3-Dichloropropene	10.45	75	1615	15.41	pg		85
28) trans-1,3-Dichloropropene	10.94	75	1576	17.44	pg	#	87
29) 1,1,2-Trichloroethane	11.09	83	1012	15.62	pg		90
31) Toluene	11.36	91	6236	20.34	pg		98
32) 1,2-Dibromoethane	12.00	107	1127	14.07	pg		100
33) Tetrachloroethene	12.46	166	1220	12.32	pg		99
35) Chlorobenzene	13.10	112	3002	13.14	pg		98

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211118.D
Acq On : 21 Jul 2011 8:10 pm
Operator : KR
Sample : 10pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:26:04 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

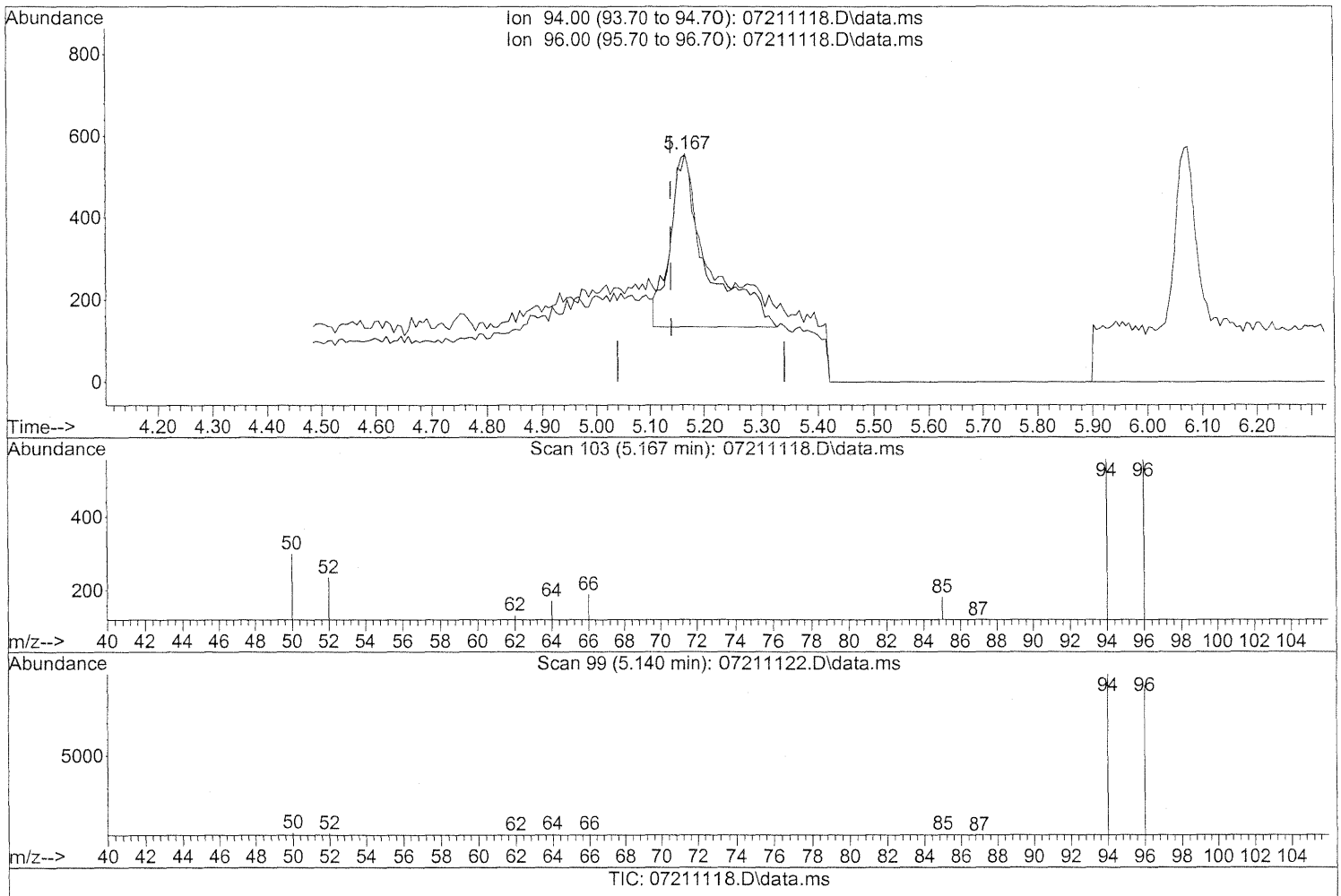
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.47	91	5402	15.91	pg	100
37) m,p-Xylene	13.63	91	9234	33.47	pg	96
38) o-Xylene	14.05	91	4132	14.31	pg	97
39) 1,1,2,2-Tetrachloroethane	14.04	83	1632	11.24	pg	95
41) 1,3-Dichlorobenzene	15.71	146	2484	11.14	pg	100
42) 1,4-Dichlorobenzene	15.78	146	2394	11.00	pg	95
43) 1,2-Dichlorobenzene	16.07	146	2195	10.51	pg	98
44) 1,2,4-Trichlorobenzene	17.56	182	1619	12.55	pg	97
45) Naphthalene	17.67	128	5050	15.51	pg	98
46) Hexachlorobutadiene	17.98	225	867	8.40	pg	99

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

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211118.D
Acq On : 21 Jul 2011 8:10 pm
Operator : KR
Sample : 10pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:24:59 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



TIC: 07211118.D\data.ms

(5) Bromomethane (T)

5.167min (+0.027) 31.50pg

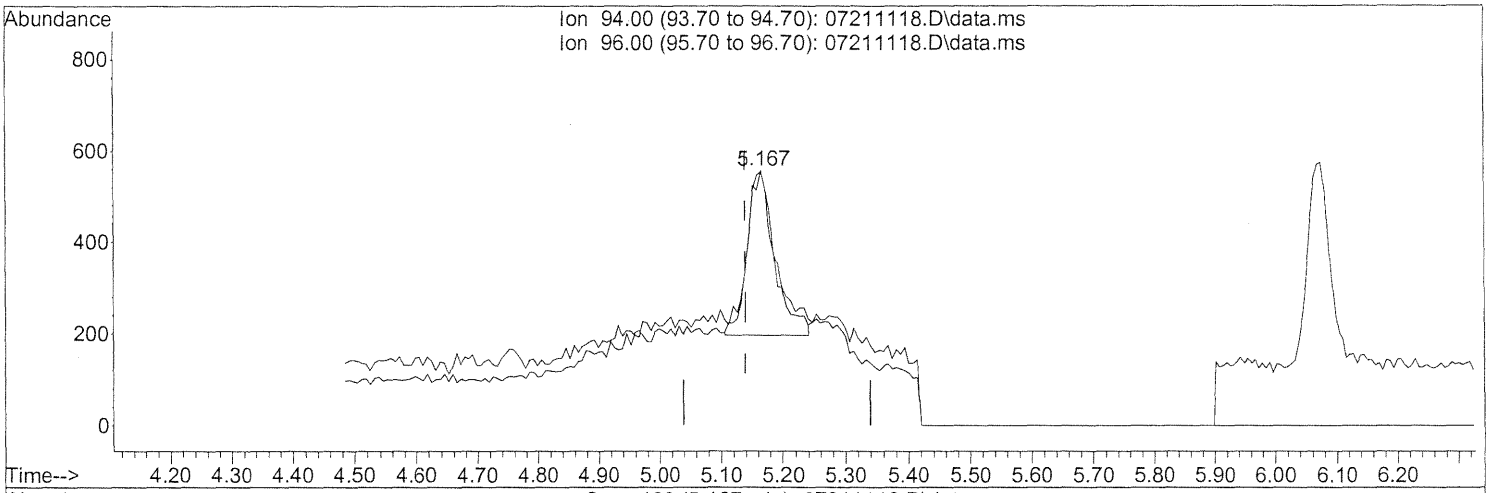
response 1913

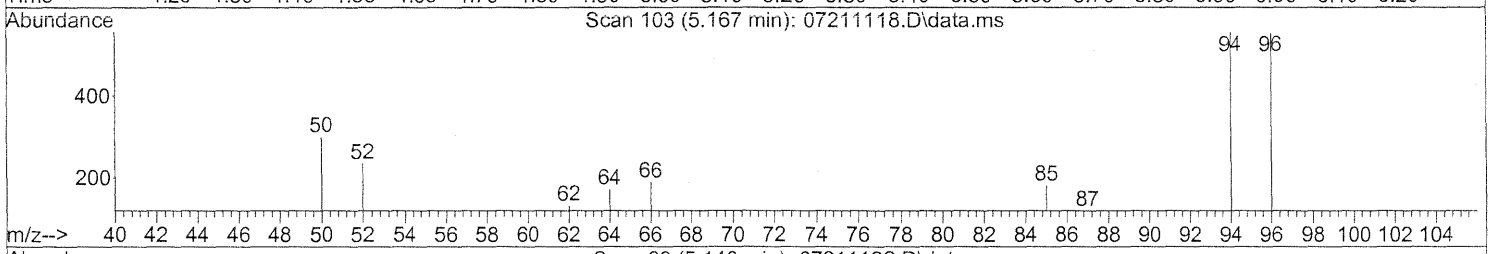
Ion	Exp%	Act%
94.00	100	100
96.00	92.80	53.27#
0.00	0.00	0.00
0.00	0.00	0.00

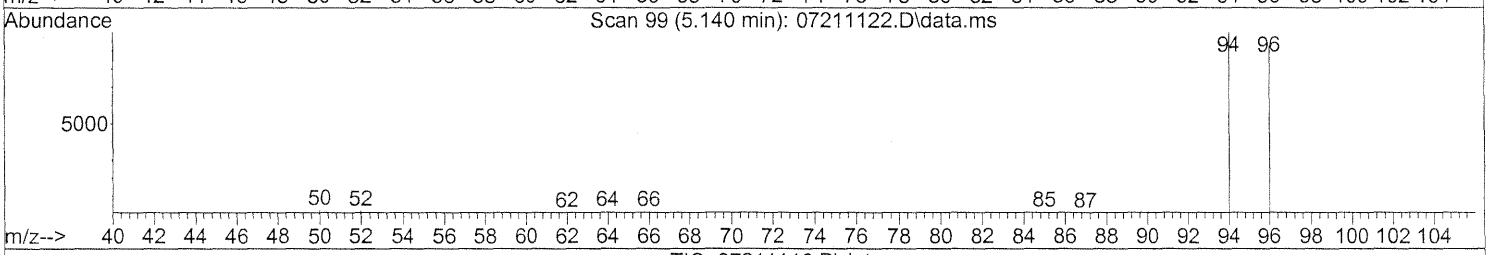
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211118.D
Acq On : 21 Jul 2011 8:10 pm
Operator : KR
Sample : 10pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:24:59 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration







TIC: 07211118.D\data.ms

(5) Bromomethane (T)

5.167min (+0.027) 17.95pg m

response 1090

Ion	Exp%	Act%
94.00	100	100
96.00	92.80	93.49
0.00	0.00	0.00
0.00	0.00	0.00

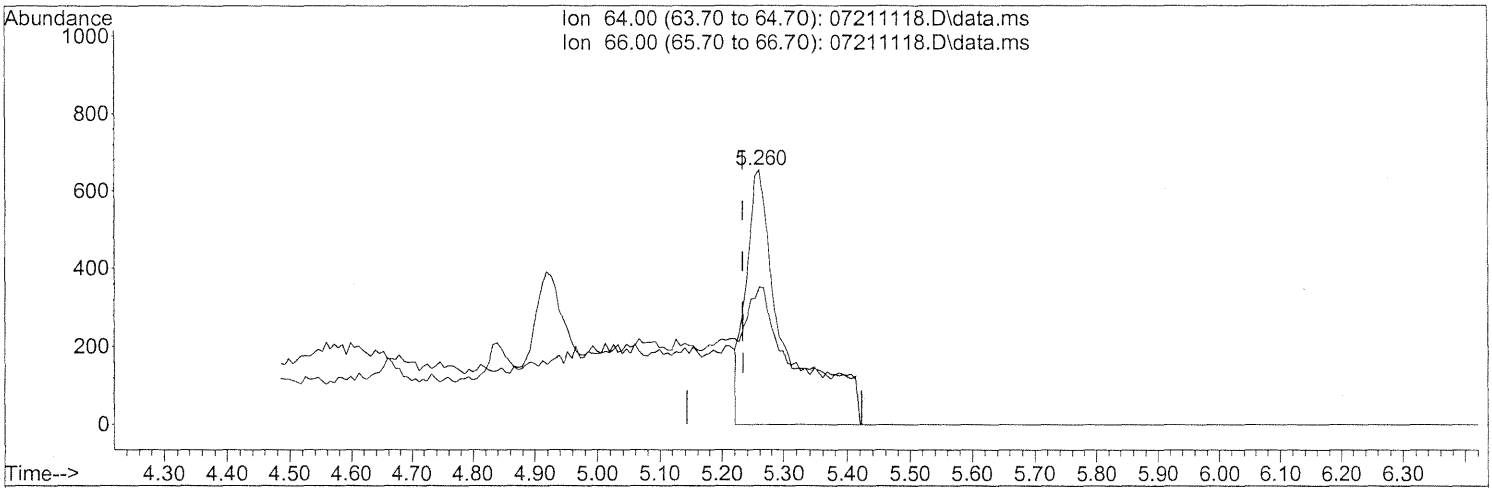
BLC KL 7/22/11

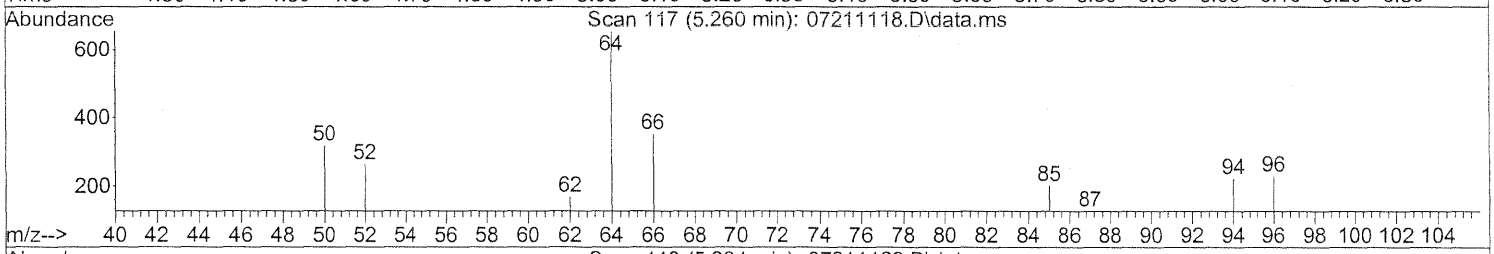
7/25/11

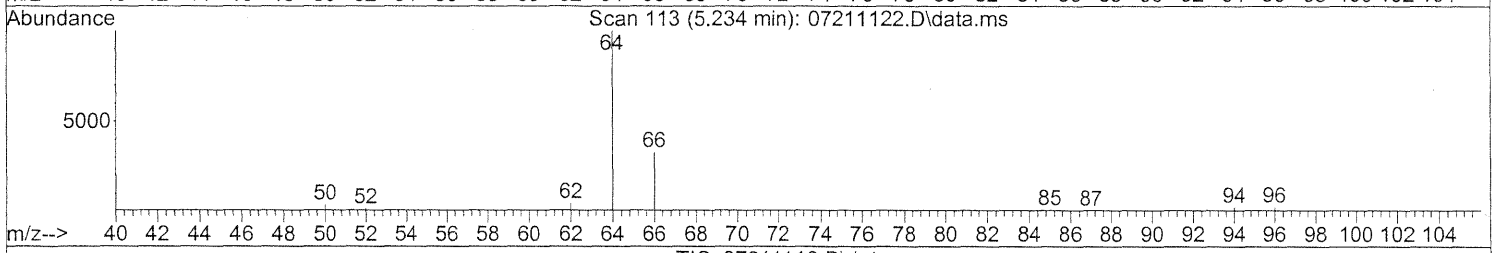
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211118.D
Acq On : 21 Jul 2011 8:10 pm
Operator : KR
Sample : 10pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:24:59 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration







TIC: 07211118.D\data.ms

(6) Chloroethane (T)

5.260min (+0.027) 49.74pg

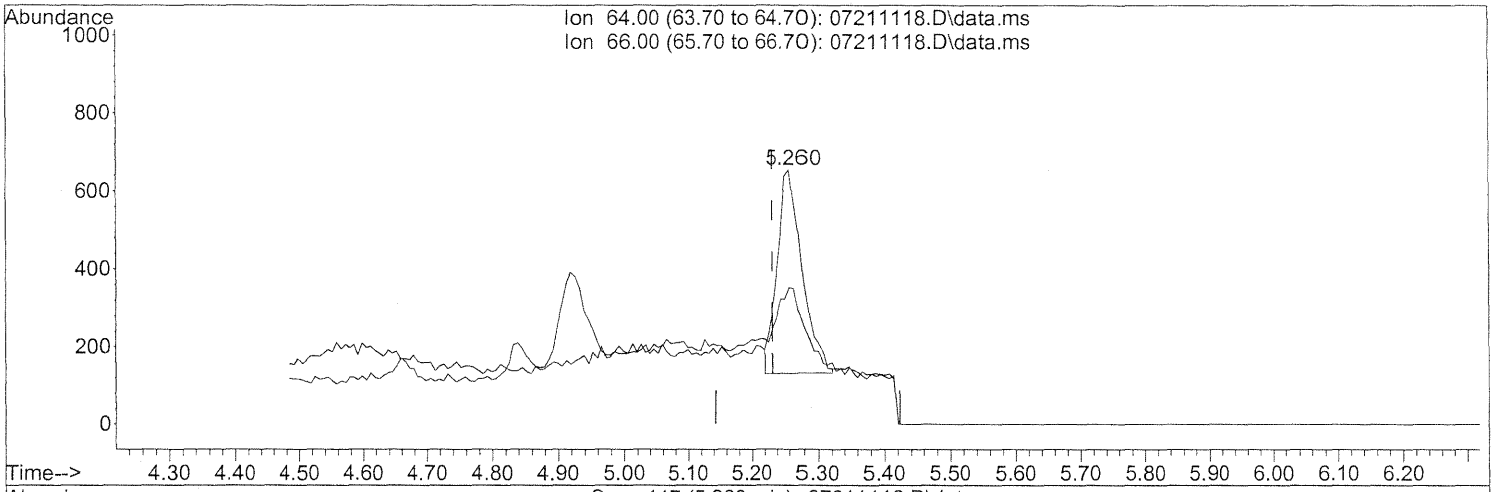
response 2881

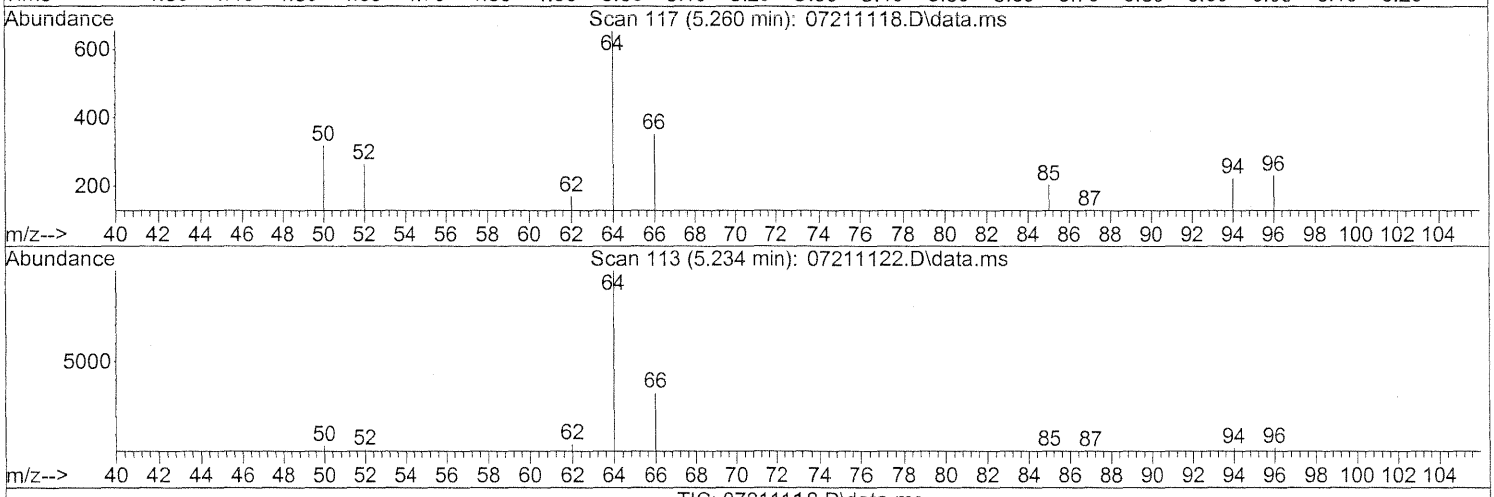
Ion	Exp%	Act%
64.00	100	100
66.00	32.00	73.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211118.D
Acq On : 21 Jul 2011 8:10 pm
Operator : KR
Sample : 10pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:24:59 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration





TIC: 07211118.D\data.ms

(6) Chloroethane (T)

5.260min (+0.027) 23.34pg m

response 1352

Ion	Exp%	Act%
64.00	100	100
66.00	32.00	157.25#
0.00	0.00	0.00
0.00	0.00	0.00

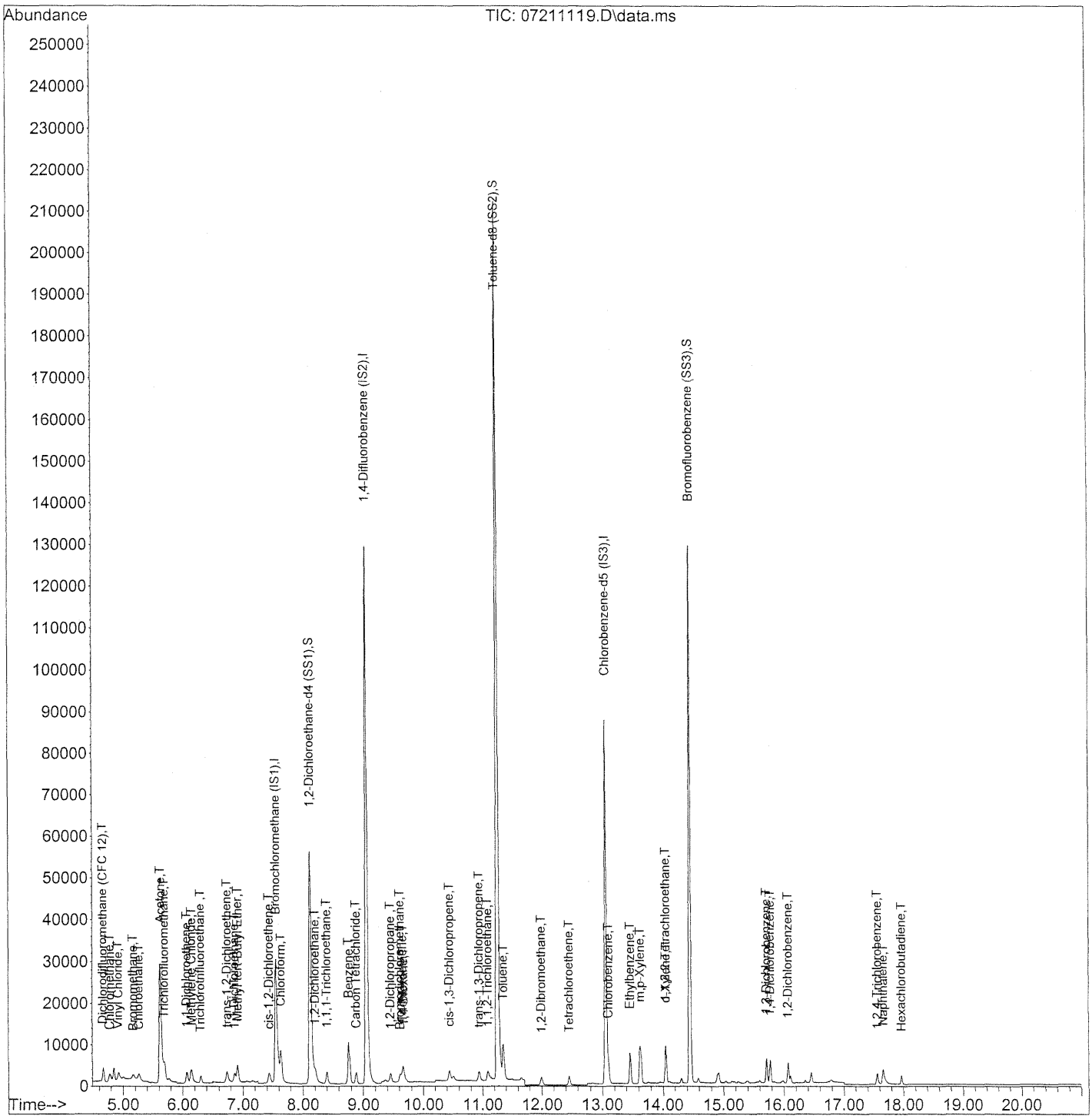
BLC
KR 7/22/11

KR 7/25/11

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211119.D
Acq On : 21 Jul 2011 8:39 pm
Operator : KR
Sample : 25pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:27:38 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211119.D
Acq On : 21 Jul 2011 8:39 pm
Operator : KR
Sample : 25pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:27:38 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.55	130	52109	1000.00	pg		0.02
22) 1,4-Difluorobenzene (IS2)	9.06	114	257144	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.06	82	126803	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.12	65	105247	1220.60	pg		0.02
Spiked Amount 1000.000			Recovery = 122.06%				
30) Toluene-d8 (SS2)	11.26	98	281648	1098.91	pg		0.00
Spiked Amount 1000.000			Recovery = 109.89%				
40) Bromofluorobenzene (SS3)	14.45	174	95459	848.64	pg		0.00
Spiked Amount 1000.000			Recovery = 84.86%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.67	85	4404	33.18	pg		99
3) Chloromethane	4.78	52	1459	44.68	pg		95
4) Vinyl Chloride	4.92	62	3731	38.35	pg		93
5) Bromomethane	5.17	94	1430m	24.47	pg		
6) Chloroethane	5.26	64	2190m	39.29	pg		
7) Acetone	5.63	58	23770	478.59	pg	#	76
8) Trichlorofluoromethane	5.69	101	3820	31.82	pg		97
9) 1,1-Dichloroethene	6.07	96	1981	34.70	pg		96
10) Methylene Chloride	6.15	84	3027	44.44	pg		96
11) Trichlorotrifluoroethane	6.30	151	1881	30.45	pg		95
12) trans-1,2-Dichloroethene	6.74	96	2184	34.72	pg		97
13) 1,1-Dichloroethane	6.86	63	3188	30.80	pg		99
14) Methyl tert-Butyl Ether	6.92	73	7227	43.17	pg		100
15) cis-1,2-Dichloroethene	7.44	96	2298	37.09	pg		96
16) Chloroform	7.64	83	9719	89.63	pg		99
18) 1,2-Dichloroethane	8.20	62	3101	34.98	pg		94
19) 1,1,1-Trichloroethane	8.40	97	3540	35.81	pg		99
20) Benzene	8.76	78	18770	69.49	pg		99
21) Carbon Tetrachloride	8.89	117	2922	34.59	pg		99
23) 1,2-Dichloropropane	9.46	63	2188	29.70	pg		98
24) Bromodichloromethane	9.61	83	2859	29.03	pg		96
25) Trichloroethene	9.66	130	2372	25.37	pg		97
26) 1,4-Dioxane	9.67	88	2209	35.64	pg	#	67
27) cis-1,3-Dichloropropene	10.45	75	3074	30.18	pg		92
28) trans-1,3-Dichloropropene	10.94	75	3130	35.63	pg		99
29) 1,1,2-Trichloroethane	11.09	83	1723	27.37	pg		95
31) Toluene	11.36	91	10869	36.48	pg		98
32) 1,2-Dibromoethane	12.00	107	2309	29.65	pg		98
33) Tetrachloroethene	12.46	166	2349	24.41	pg		99
35) Chlorobenzene	13.10	112	5822	26.75	pg		97

7/22/11

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211119.D
Acq On : 21 Jul 2011 8:39 pm
Operator : KR
Sample : 25pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:27:38 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

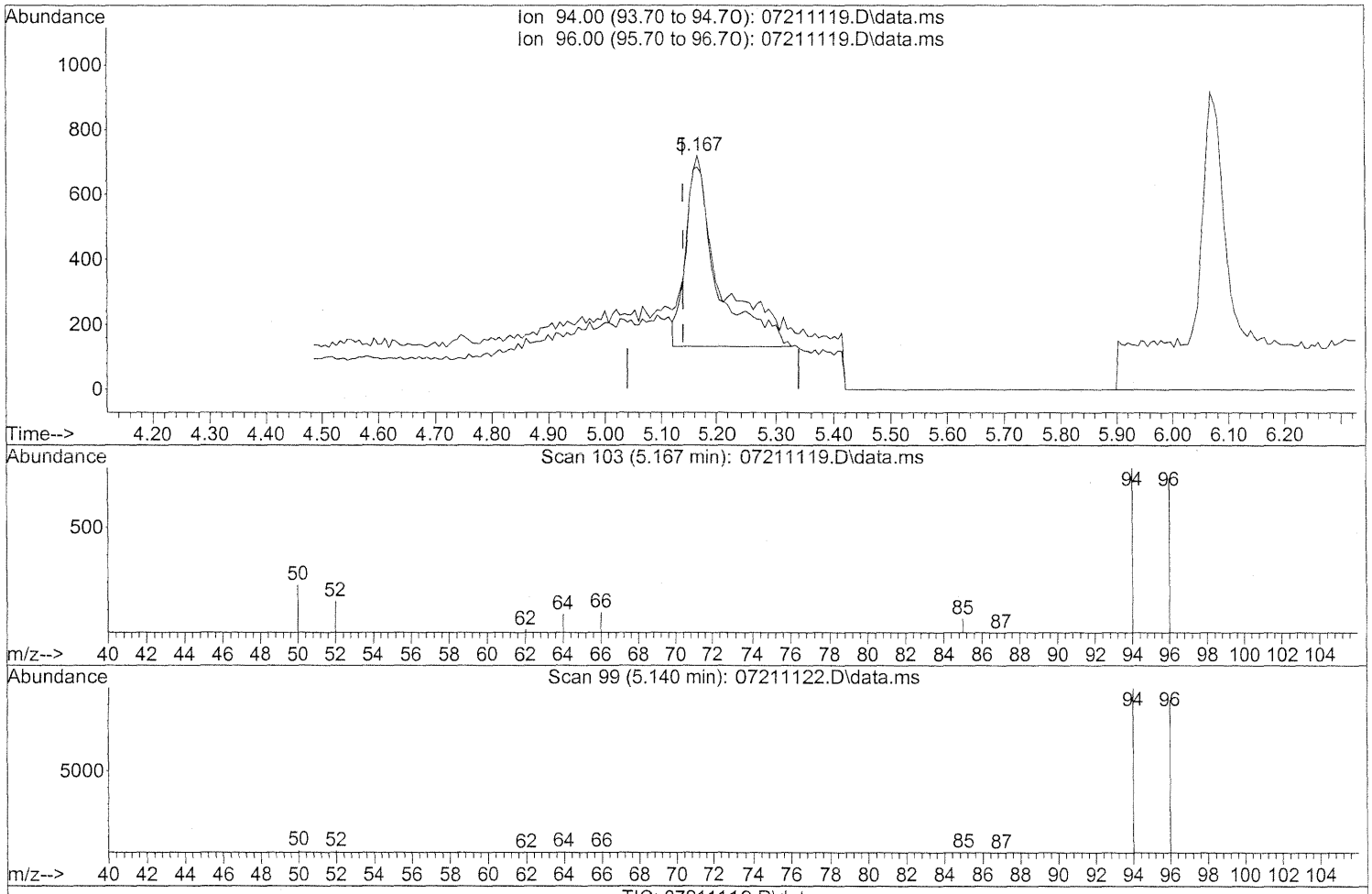
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Ethylbenzene	13.46	91	10385	32.10 pg	99
37) m,p-Xylene	13.63	91	16661	63.39 pg	97
38) o-Xylene	14.05	91	8007	29.10 pg	98
39) 1,1,2,2-Tetrachloroethane	14.04	83	3368	24.36 pg	99
41) 1,3-Dichlorobenzene	15.71	146	4763	22.42 pg	98
42) 1,4-Dichlorobenzene	15.77	146	4851	23.40 pg	99
43) 1,2-Dichlorobenzene	16.07	146	4335	21.79 pg	97
44) 1,2,4-Trichlorobenzene	17.56	182	3335	27.12 pg	98
45) Naphthalene	17.66	128	10096	32.55 pg	97
46) Hexachlorobutadiene	17.97	225	1950	19.82 pg	98

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

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211119.D
Acq On : 21 Jul 2011 8:39 pm
Operator : KR
Sample : 25pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:25:01 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



TIC: 07211119.D\data.ms

(5) Bromomethane (T)

5.167min (+0.027) 38.47pg

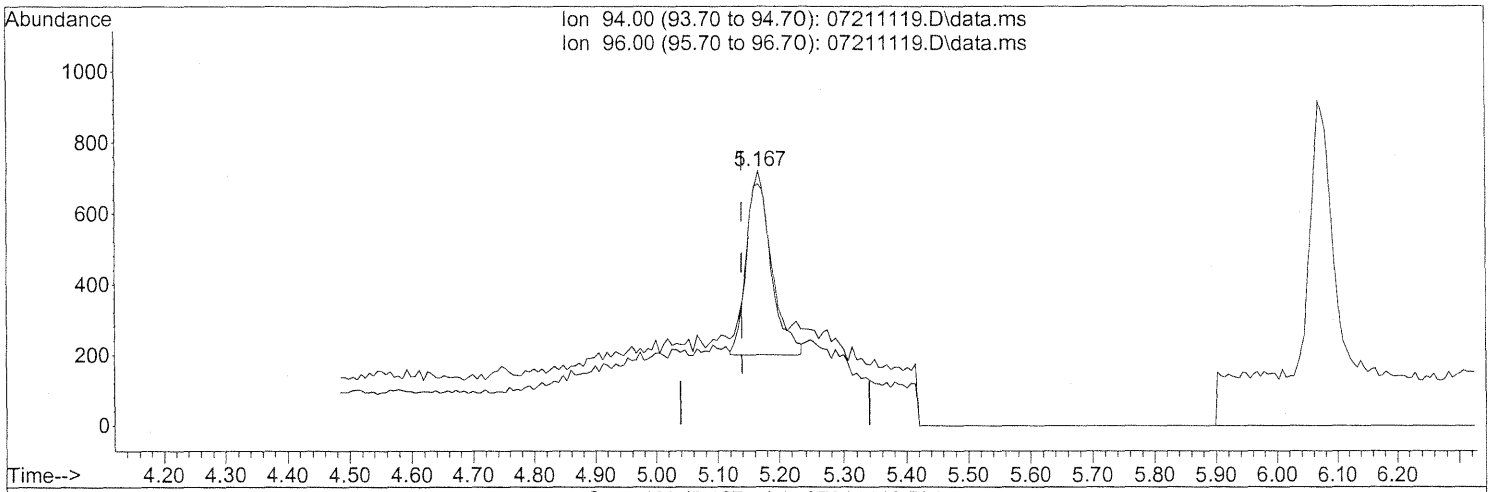
response 2248

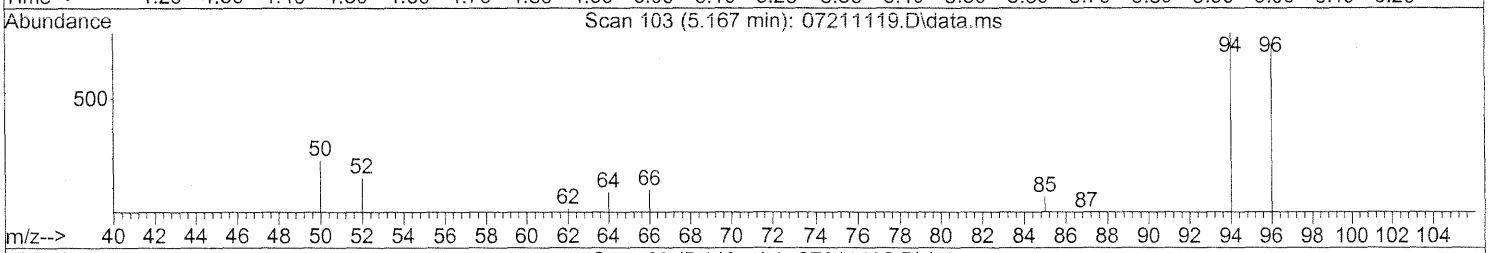
Ion	Exp%	Act%
94.00	100	100
96.00	92.80	85.14
0.00	0.00	0.00
0.00	0.00	0.00

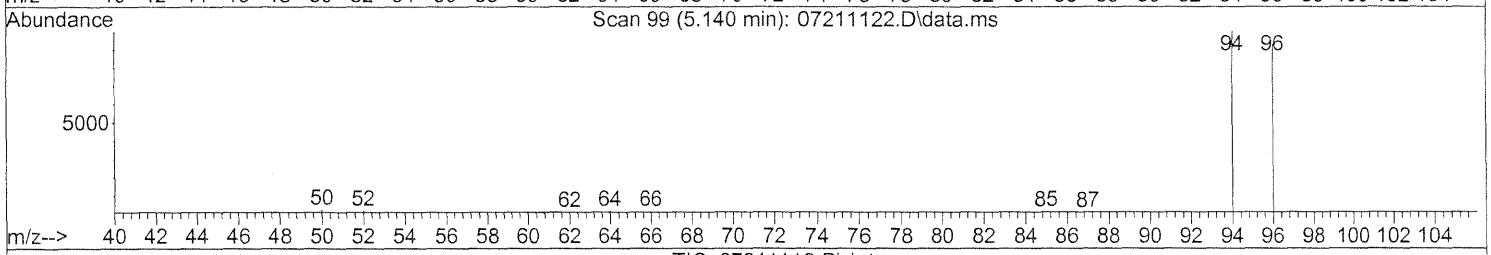
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211119.D
Acq On : 21 Jul 2011 8:39 pm
Operator : KR
Sample : 25pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:25:01 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration







TIC: 07211119.D\data.ms

(5) Bromomethane (T)

5.167min (+0.027) 24.47pg m

response 1430

Ion	Exp%	Act%
94.00	100	100
96.00	92.80	133.85#
0.00	0.00	0.00
0.00	0.00	0.00

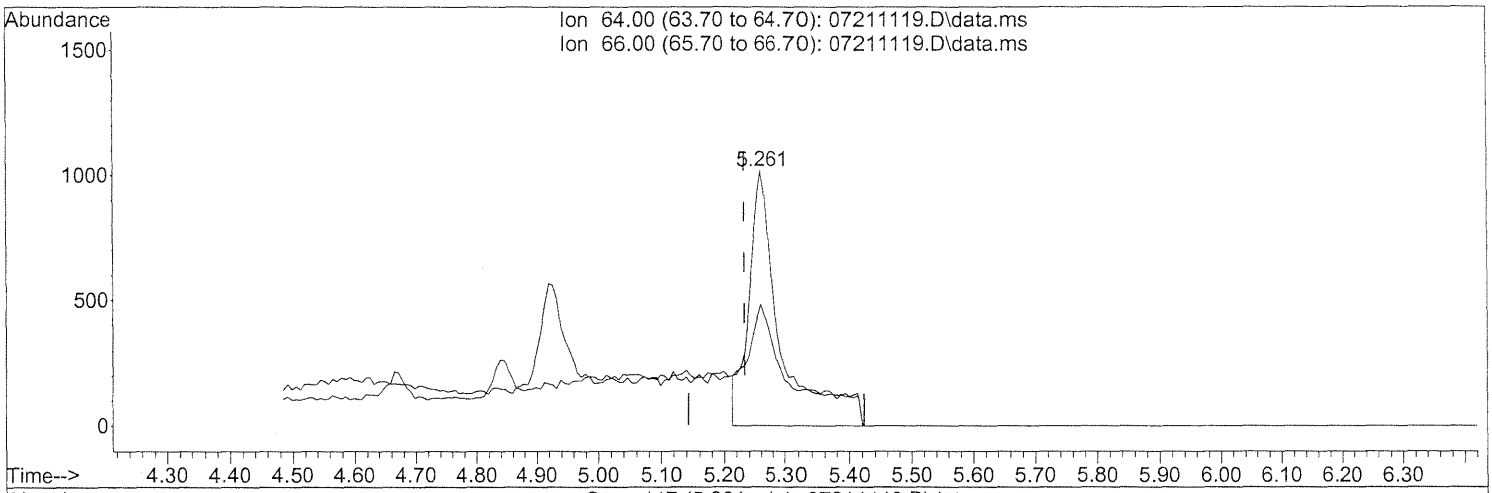
BLC 7/22/11

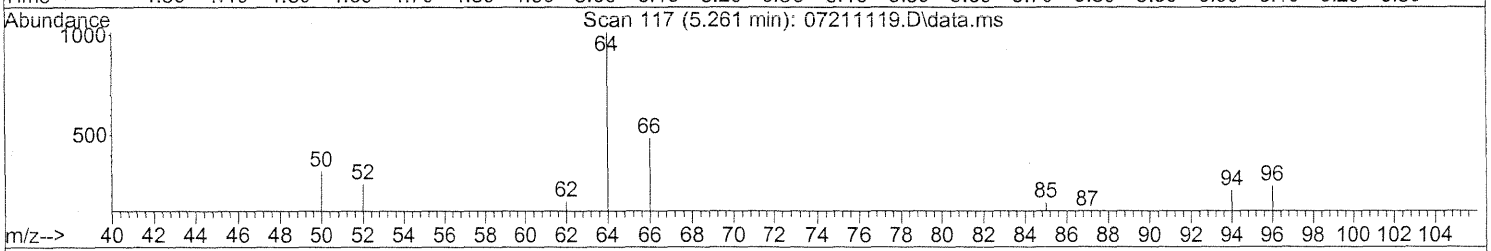
7/25/11

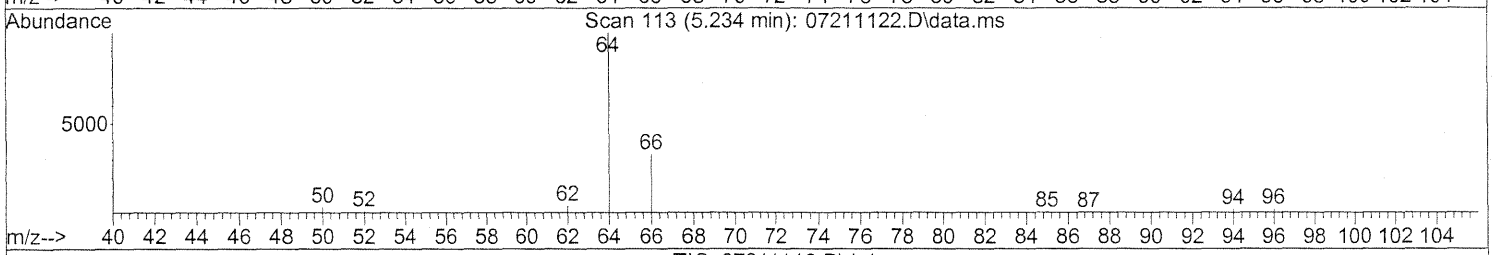
Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211119.D
Acq On : 21 Jul 2011 8:39 pm
Operator : KR
Sample : 25pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:25:01 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration







TIC: 07211119.D\data.ms

(6) Chloroethane (T)

5.261min (+0.027) 67.16pg

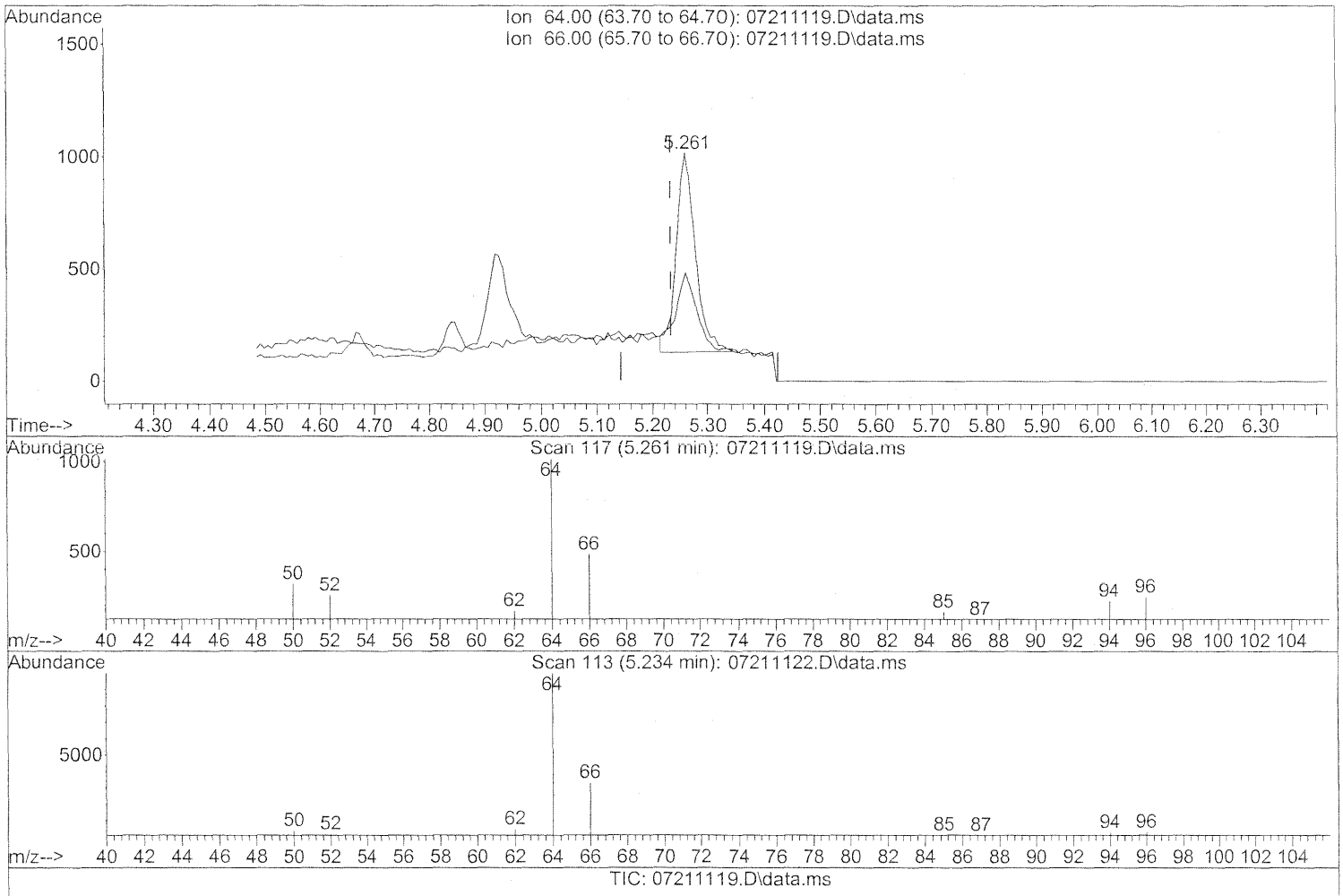
response 3743

Ion	Exp%	Act%
64.00	100	100
66.00	32.00	62.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211119.D
Acq On : 21 Jul 2011 8:39 pm
Operator : KR
Sample : 25pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:25:01 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



TIC: 07211119.D\data.ms

(6) Chloroethane (T)

5.261min (+0.027) 39.29pg m

response 2190

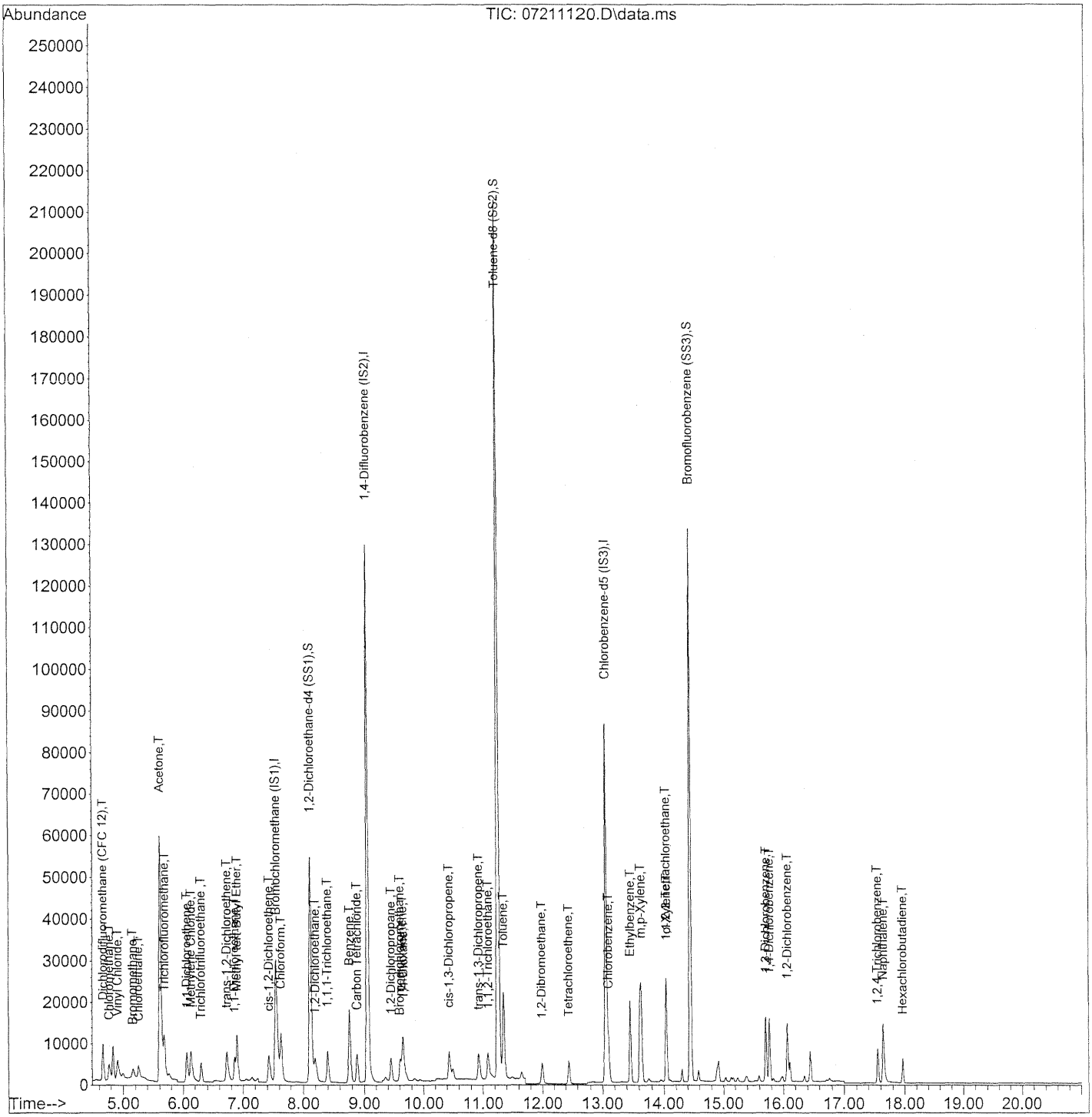
Ion	Exp%	Act%
64.00	100	100
66.00	32.00	106.26#
0.00	0.00	0.00
0.00	0.00	0.00

7/25/11

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211120.D
Acq On : 21 Jul 2011 9:08 pm
Operator : KR
Sample : 75pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:25:02 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211120.D
Acq On : 21 Jul 2011 9:08 pm
Operator : KR
Sample : 75pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:25:02 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.55	130	50245	1000.00	pg		0.01
22) 1,4-Difluorobenzene (IS2)	9.06	114	252040	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.06	82	125680	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.12	65	99192	1193.06	pg		0.01
Spiked Amount 1000.000			Recovery = 119.31%				
30) Toluene-d8 (SS2)	11.26	98	279505	1112.63	pg		0.00
Spiked Amount 1000.000			Recovery = 111.26%				
40) Bromofluorobenzene (SS3)	14.45	174	96254	863.35	pg		0.00
Spiked Amount 1000.000			Recovery = 86.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.67	85	12016	93.90	pg		99
3) Chloromethane	4.77	52	2669	84.77	pg		96
4) Vinyl Chloride	4.91	62	9456	100.79	pg		99
5) Bromomethane	5.16	94	2958	52.50	pg		99
6) Chloroethane	5.25	64	5606	104.31	pg		79
7) Acetone	5.61	58	43549	909.34	pg	#	80
8) Trichlorofluoromethane	5.68	101	10059	86.89	pg		99
9) 1,1-Dichloroethene	6.06	96	5190	94.28	pg		96
10) Methylene Chloride	6.13	84	6734	102.54	pg		90
11) Trichlorotrifluoroethane	6.29	151	5161	86.64	pg		99
12) trans-1,2-Dichloroethene	6.73	96	5945	98.03	pg		98
13) 1,1-Dichloroethane	6.86	63	8617	86.33	pg		100
14) Methyl tert-Butyl Ether	6.90	73	19051	118.02	pg		96
15) cis-1,2-Dichloroethene	7.43	96	5911	98.94	pg		92
16) Chloroform	7.63	83	15233	145.69	pg		100
18) 1,2-Dichloroethane	8.20	62	8583	100.41	pg		93
19) 1,1,1-Trichloroethane	8.40	97	9646	101.18	pg		98
20) Benzene	8.76	78	32426	124.50	pg		100
21) Carbon Tetrachloride	8.88	117	7743	95.05	pg		99
23) 1,2-Dichloropropane	9.46	63	6031	83.53	pg		98
24) Bromodichloromethane	9.61	83	7940	82.24	pg		99
25) Trichloroethene	9.65	130	6149	67.10	pg		97
26) 1,4-Dioxane	9.67	88	5465	89.95	pg	#	68
27) cis-1,3-Dichloropropene	10.44	75	8670	86.86	pg		100
28) trans-1,3-Dichloropropene	10.93	75	8672	100.72	pg		97
29) 1,1,2-Trichloroethane	11.09	83	4641	75.21	pg		97
31) Toluene	11.35	91	26789	91.72	pg		100
32) 1,2-Dibromoethane	11.99	107	6278	82.26	pg		98
33) Tetrachloroethene	12.45	166	6304	66.84	pg		100
35) Chlorobenzene	13.10	112	16141	74.82	pg		99

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211120.D
Acq On : 21 Jul 2011 9:08 pm
Operator : KR
Sample : 75pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191108
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 22 07:25:02 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

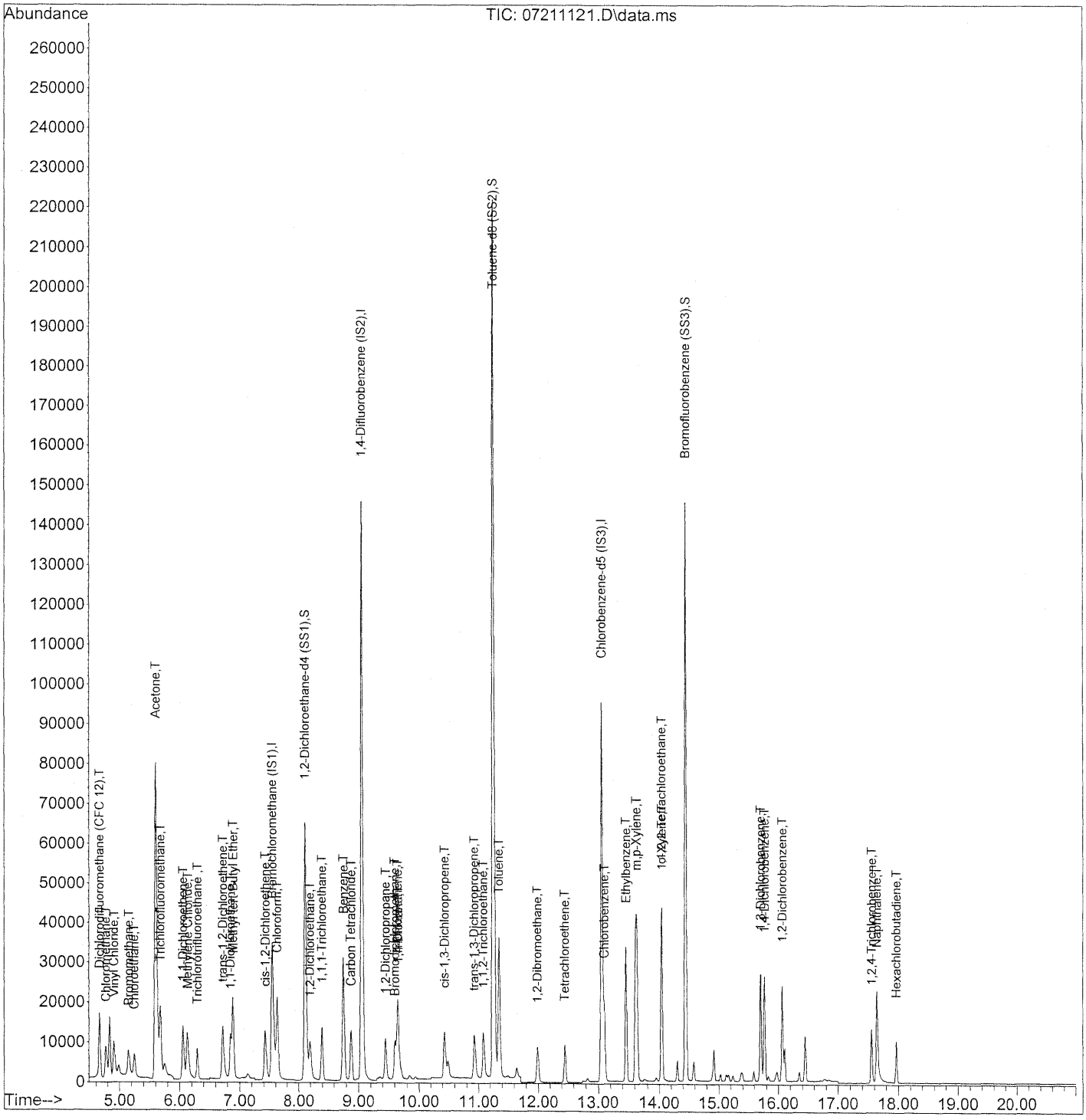
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	27844	86.85	pg	99
37) m,p-Xylene	13.63	91	44352	170.26	pg	97
38) o-Xylene	14.04	91	21925	80.41	pg	97
39) 1,1,2,2-Tetrachloroethane	14.04	83	9330	68.08	pg	96
41) 1,3-Dichlorobenzene	15.71	146	13448	63.87	pg	100
42) 1,4-Dichlorobenzene	15.77	146	13346	64.94	pg	98
43) 1,2-Dichlorobenzene	16.07	146	12511	63.44	pg	100
44) 1,2,4-Trichlorobenzene	17.55	182	9430	77.38	pg	98
45) Naphthalene	17.65	128	29332	95.40	pg	99
46) Hexachlorobutadiene	17.97	225	5436	55.75	pg	100

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211121.D
Acq On : 21 Jul 2011 9:42 pm
Operator : KR
Sample : 100pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:03 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211121.D
Acq On : 21 Jul 2011 9:42 pm
Operator : KR
Sample : 100pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:03 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	56842	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	280606	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	137668	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.11	65	115955	1232.81	pg		0.00
Spiked Amount 1000.000			Recovery = 123.28%				
30) Toluene-d8 (SS2)	11.26	98	296164	1058.93	pg		0.00
Spiked Amount 1000.000			Recovery = 105.89%				
40) Bromofluorobenzene (SS3)	14.45	174	104340	854.38	pg		0.00
Spiked Amount 1000.000			Recovery = 85.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.66	85	21385	147.71	pg		98
3) Chloromethane	4.77	52	5307	149.00	pg		92
4) Vinyl Chloride	4.91	62	16877	159.01	pg		98
5) Bromomethane	5.15	94	9142	143.42	pg		97
6) Chloroethane	5.25	64	9114	149.91	pg		93
7) Acetone	5.60	58	55022	1015.57	pg	#	84
8) Trichlorofluoromethane	5.68	101	18392	140.43	pg		99
9) 1,1-Dichloroethene	6.06	96	9460	151.91	pg		97
10) Methylene Chloride	6.13	84	10744	144.61	pg		93
11) Trichlorotrifluoroethane	6.29	151	8686	128.90	pg		100
12) trans-1,2-Dichloroethene	6.72	96	10657	155.33	pg		98
13) 1,1-Dichloroethane	6.85	63	16674	147.66	pg		100
14) Methyl tert-Butyl Ether	6.89	73	34457	188.68	pg		97
15) cis-1,2-Dichloroethene	7.43	96	11636	172.15	pg		98
16) Chloroform	7.63	83	27895	235.83	pg		99
18) 1,2-Dichloroethane	8.19	62	15625	161.57	pg		94
19) 1,1,1-Trichloroethane	8.40	97	16869	156.42	pg		99
20) Benzene	8.76	78	56052	190.24	pg		100
21) Carbon Tetrachloride	8.88	117	13626	147.86	pg		99
23) 1,2-Dichloropropane	9.45	63	10677	132.82	pg		99
24) Bromodichloromethane	9.61	83	13929	129.59	pg		99
25) Trichloroethene	9.65	130	11221	109.98	pg		99
26) 1,4-Dioxane	9.66	88	8974	132.67	pg		100
27) cis-1,3-Dichloropropene	10.44	75	15120	136.05	pg		98
28) trans-1,3-Dichloropropene	10.93	75	15286	159.47	pg		98
29) 1,1,2-Trichloroethane	11.08	83	8363	121.73	pg		97
31) Toluene	11.35	91	44899	138.08	pg		100
32) 1,2-Dibromoethane	11.99	107	11042	129.96	pg		99
33) Tetrachloroethene	12.45	166	10852	103.35	pg		100
35) Chlorobenzene	13.10	112	28267	119.62	pg		99

KR 7/22/11

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211121.D
Acq On : 21 Jul 2011 9:42 pm
Operator : KR
Sample : 100pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:03 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

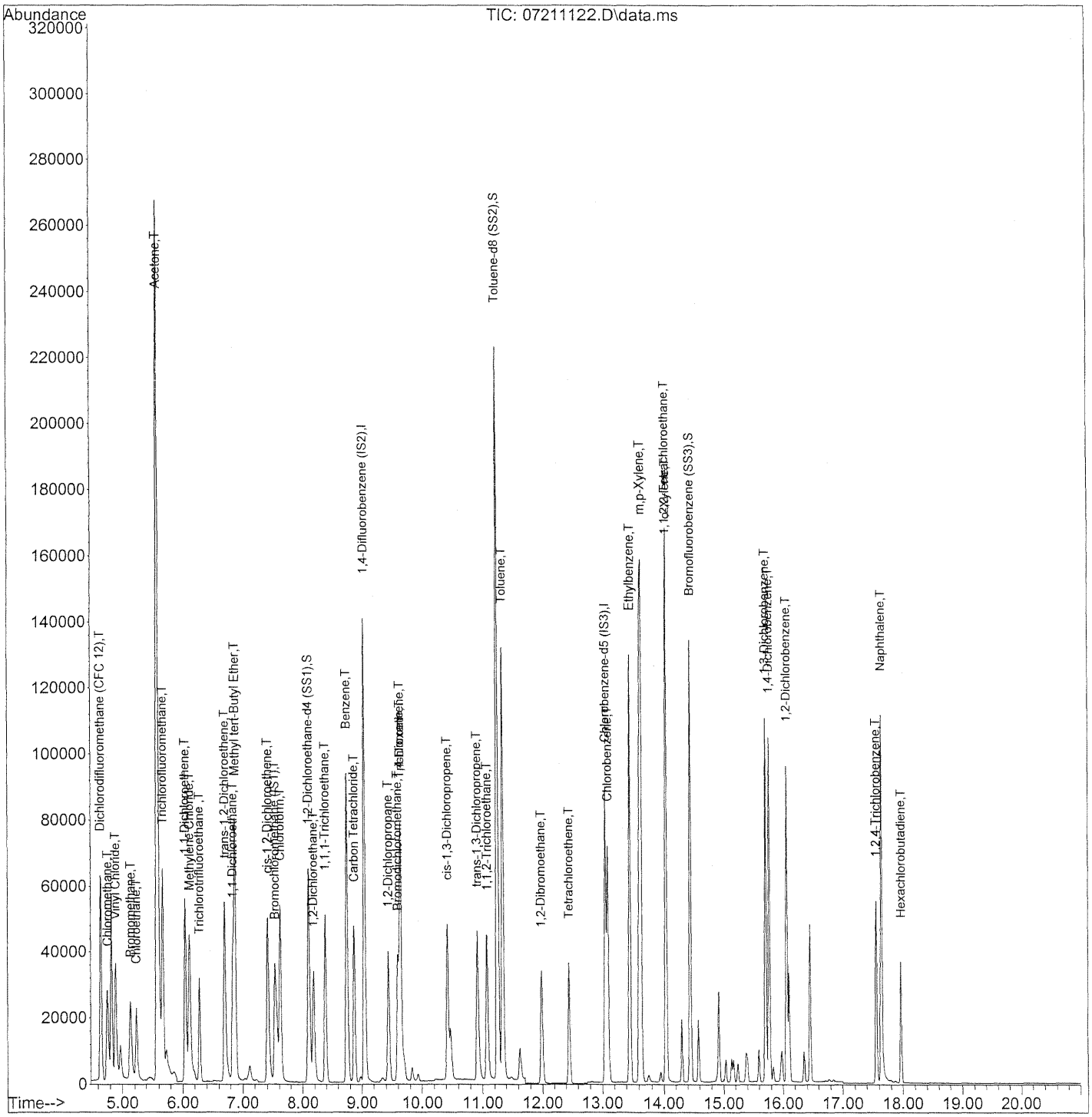
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	48477	138.04	pg	99
37) m,p-Xylene	13.62	91	77460	271.46	pg	97
38) o-Xylene	14.04	91	39437	132.04	pg	96
39) 1,1,2,2-Tetrachloroethane	14.04	83	16059	106.97	pg	97
41) 1,3-Dichlorobenzene	15.71	146	23200	100.59	pg	100
42) 1,4-Dichlorobenzene	15.77	146	22834	101.43	pg	98
43) 1,2-Dichlorobenzene	16.07	146	21344	98.81	pg	99
44) 1,2,4-Trichlorobenzene	17.56	182	15456	115.79	pg	98
45) Naphthalene	17.65	128	49013	145.53	pg	99
46) Hexachlorobutadiene	17.97	225	9356	87.60	pg	100

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211122.D
Acq On : 21 Jul 2011 10:11 pm
Operator : KR
Sample : 500pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:03 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211122.D
Acq On : 21 Jul 2011 10:11 pm
Operator : KR
Sample : 500pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:03 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	53543	1000.00	pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	264265	1000.00	pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	127804	1000.00	pg	0.00
System Monitoring Compounds						
17) 1,2-Dichloroethane-d4 ...	8.10	65	109204	1232.58	pg	0.00
Spiked Amount 1000.000			Recovery = 123.26%			
30) Toluene-d8 (SS2)	11.25	98	285188	1082.74	pg	0.00
Spiked Amount 1000.000			Recovery = 108.27%			
40) Bromofluorobenzene (SS3)	14.45	174	96655	852.54	pg	0.00
Spiked Amount 1000.000			Recovery = 85.25%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	4.65	85	81500	597.63	pg	98
3) Chloromethane	4.76	52	17926	534.31	pg	93
4) Vinyl Chloride	4.89	62	63736	637.51	pg	99
5) Bromomethane	5.14	94	30937	515.24	pg	99
6) Chloroethane	5.23	64	33818	590.51	pg	97
7) Acetone	5.58	58	160697	3148.82	pg	95
8) Trichlorofluoromethane	5.67	101	70799	573.88	pg	98
9) 1,1-Dichloroethene	6.04	96	36914	629.29	pg	96
10) Methylene Chloride	6.12	84	38859	555.25	pg	89
11) Trichlorotrifluoroethane	6.28	151	34429	542.39	pg	100
12) trans-1,2-Dichloroethene	6.71	96	40790	631.15	pg	97
13) 1,1-Dichloroethane	6.84	63	60217	566.13	pg	100
14) Methyl tert-Butyl Ether	6.88	73	130265	757.25	pg	97
15) cis-1,2-Dichloroethene	7.42	96	42383	665.69	pg	96
16) Chloroform	7.62	83	73981	663.98	pg	99
18) 1,2-Dichloroethane	8.19	62	59570	653.95	pg	96
19) 1,1,1-Trichloroethane	8.39	97	64763	637.51	pg	99
20) Benzene	8.75	78	169783	611.75	pg	99
21) Carbon Tetrachloride	8.87	117	52149	600.73	pg	99
23) 1,2-Dichloropropane	9.44	63	40516	535.19	pg	99
24) Bromodichloromethane	9.60	83	54129	534.73	pg	99
25) Trichloroethene	9.64	130	41957	436.68	pg	98
26) 1,4-Dioxane	9.64	88	33410	524.45	pg	97
27) cis-1,3-Dichloropropene	10.43	75	59044	564.13	pg	95
28) trans-1,3-Dichloropropene	10.92	75	60311	668.08	pg	99
29) 1,1,2-Trichloroethane	11.08	83	31666	489.41	pg	98
31) Toluene	11.35	91	169029	551.98	pg	99
32) 1,2-Dibromoethane	11.98	107	42557	531.84	pg	98
33) Tetrachloroethene	12.45	166	42123	425.98	pg	100
35) Chlorobenzene	13.09	112	108137	492.92	pg	99

KE 7/27/11

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211122.D
Acq On : 21 Jul 2011 10:11 pm
Operator : KR
Sample : 500pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:03 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

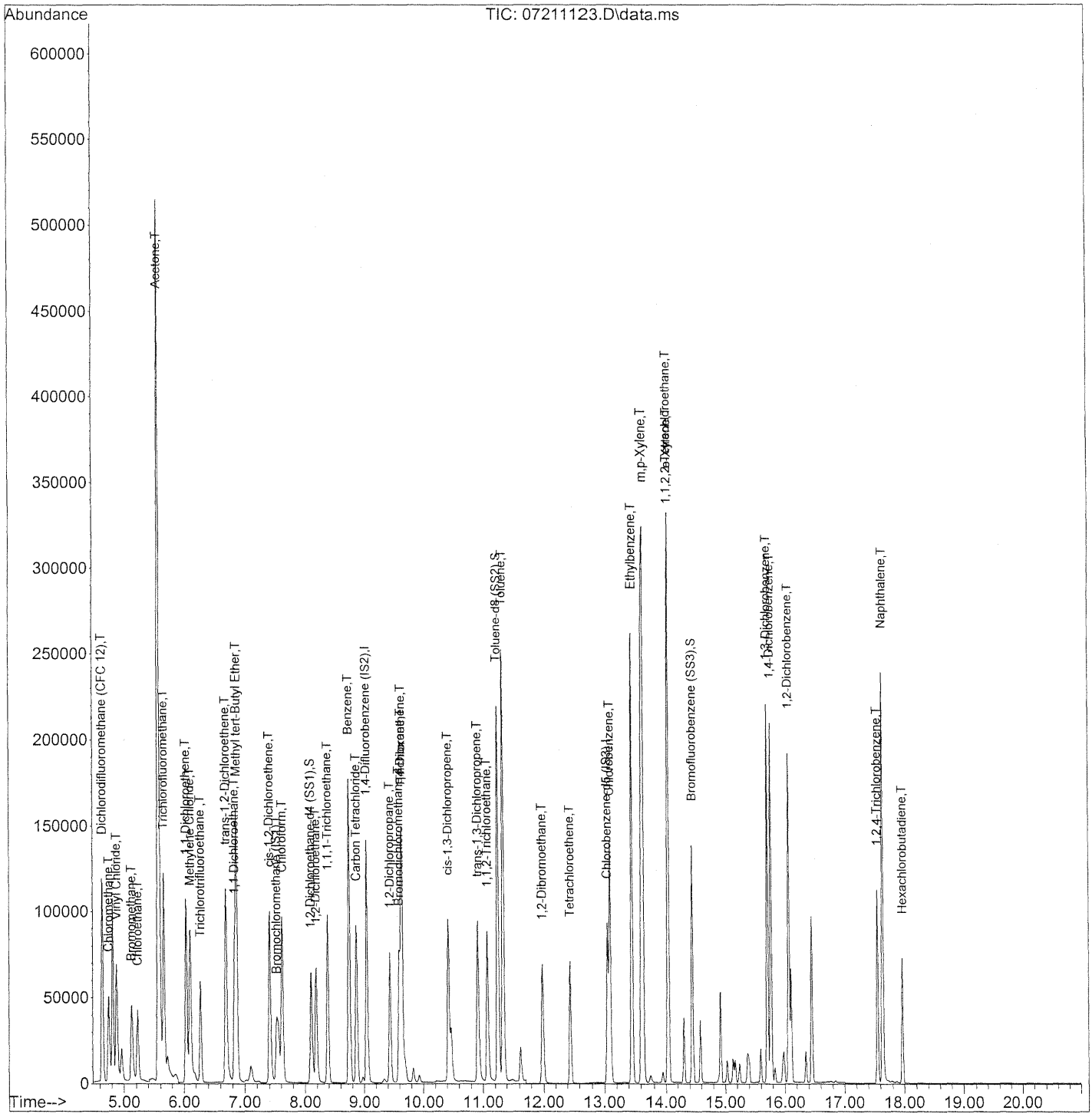
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	182683	560.33	pg	99
37) m,p-Xylene	13.62	91	290110	1095.15	pg	97
38) o-Xylene	14.04	91	146478	528.26	pg	97
39) 1,1,2,2-Tetrachloroethane	14.03	83	65254	468.21	pg	98
41) 1,3-Dichlorobenzene	15.71	146	90779	423.98	pg	100
42) 1,4-Dichlorobenzene	15.77	146	92072	440.57	pg	99
43) 1,2-Dichlorobenzene	16.07	146	84560	421.66	pg	99
44) 1,2,4-Trichlorobenzene	17.55	182	58606	472.93	pg	98
45) Naphthalene	17.64	128	194236	621.23	pg	100
46) Hexachlorobutadiene	17.97	225	34072	343.64	pg	100

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211123.D
Acq On : 21 Jul 2011 10:41 pm
Operator : KR
Sample : 1000pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:05 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211123.D
Acq On : 21 Jul 2011 10:41 pm
Operator : KR
Sample : 1000pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:05 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	52391	1000.00	pg	-0.01
22) 1,4-Difluorobenzene (IS2)	9.05	114	262455	1000.00	pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	130905	1000.00	pg	0.00
System Monitoring Compounds						
17) 1,2-Dichloroethane-d4 ...	8.10	65	101734	1173.51	pg	0.00
Spiked Amount 1000.000			Recovery = 117.35%			
30) Toluene-d8 (SS2)	11.25	98	278535	1064.77	pg	0.00
Spiked Amount 1000.000			Recovery = 106.48%			
40) Bromofluorobenzene (SS3)	14.45	174	100220	863.04	pg	0.00
Spiked Amount 1000.000			Recovery = 86.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	4.64	85	153984	1153.98	pg	98
3) Chloromethane	4.75	52	30989	943.98	pg	95
4) Vinyl Chloride	4.88	62	120482	1231.60	pg	98
5) Bromomethane	5.13	94	56704	965.15	pg	98
6) Chloroethane	5.23	64	64718	1154.92	pg	98
7) Acetone	5.57	58	293195	5871.42	pg	97
8) Trichlorofluoromethane	5.66	101	137612	1139.97	pg	98
9) 1,1-Dichloroethene	6.04	96	69108	1204.02	pg	95
10) Methylene Chloride	6.11	84	74967	1094.75	pg	99
11) Trichlorotrifluoroethane	6.28	151	64924	1045.29	pg	100
12) trans-1,2-Dichloroethene	6.70	96	79020	1249.57	pg	96
13) 1,1-Dichloroethane	6.84	63	119301	1146.26	pg	100
14) Methyl tert-Butyl Ether	6.87	73	252685	1501.20	pg	98
15) cis-1,2-Dichloroethene	7.41	96	82211	1319.65	pg	97
16) Chloroform	7.62	83	133972	1228.83	pg	99
18) 1,2-Dichloroethane	8.19	62	117120	1314.00	pg	97
19) 1,1,1-Trichloroethane	8.39	97	123492	1242.35	pg	99
20) Benzene	8.75	78	317265	1168.29	pg	99
21) Carbon Tetrachloride	8.87	117	101974	1200.52	pg	99
23) 1,2-Dichloropropane	9.44	63	78526	1044.43	pg	99
24) Bromodichloromethane	9.60	83	104081	1035.29	pg	98
25) Trichloroethene	9.64	130	82046	859.81	pg	99
26) 1,4-Dioxane	9.64	88	64607	1021.16	pg	100
27) cis-1,3-Dichloropropene	10.42	75	115378	1109.98	pg	97
28) trans-1,3-Dichloropropene	10.92	75	120735	1346.63	pg	99
29) 1,1,2-Trichloroethane	11.08	83	61014	949.50	pg	98
31) Toluene	11.34	91	323246	1062.86	pg	99
32) 1,2-Dibromoethane	11.98	107	83955	1056.42	pg	98
33) Tetrachloroethene	12.45	166	80487	819.55	pg	100
35) Chlorobenzene	13.09	112	213835	951.63	pg	99

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211123.D
Acq On : 21 Jul 2011 10:41 pm
Operator : KR
Sample : 1000pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

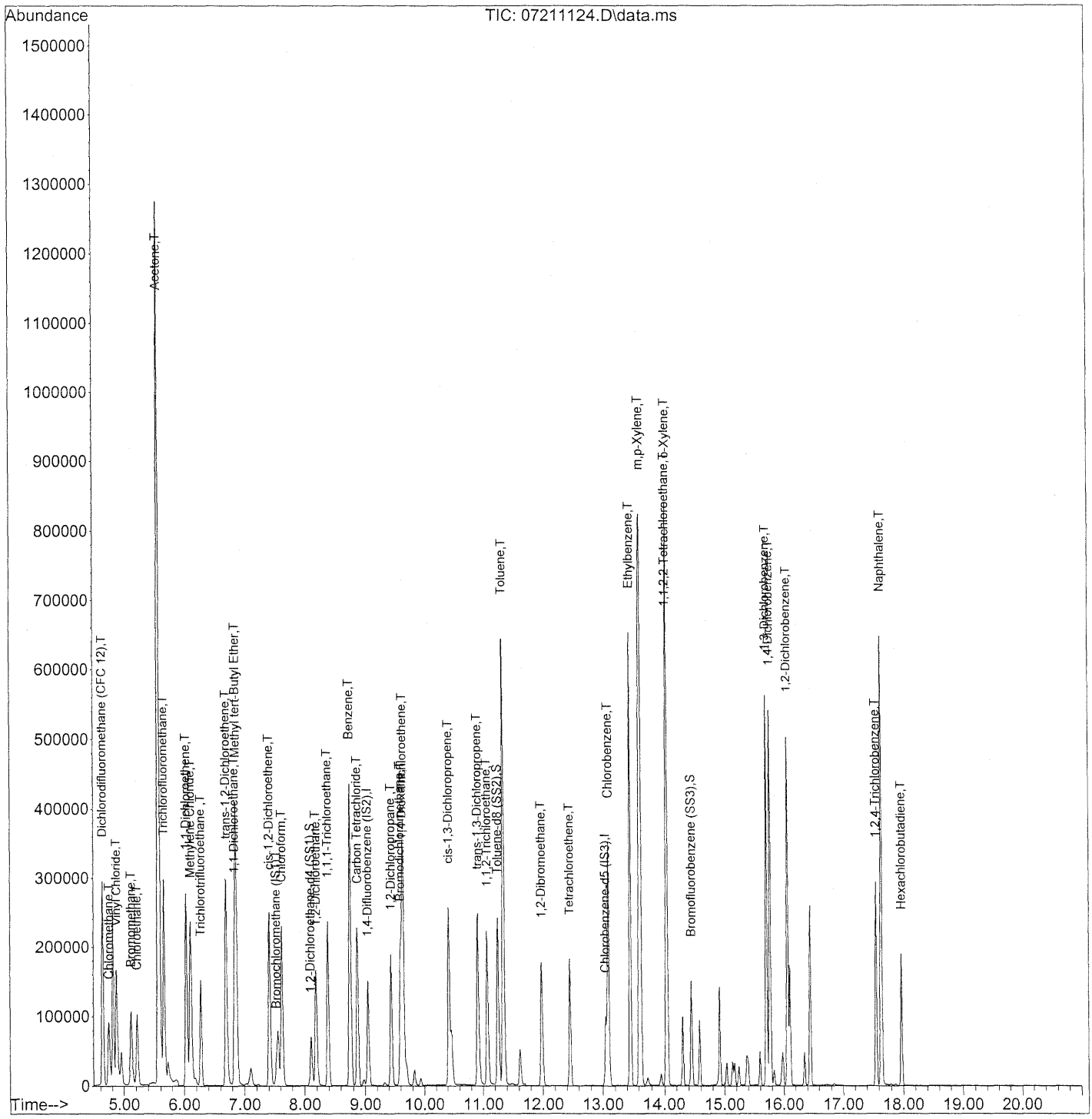
Quant Time: Jul 22 07:25:05 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	368622	1103.86	pg	99
37) m,p-Xylene	13.62	91	589118	2171.22	pg	97
38) o-Xylene	14.04	91	294565	1037.16	pg	97
39) 1,1,2,2-Tetrachloroethane	14.03	83	129498	907.16	pg	97
41) 1,3-Dichlorobenzene	15.71	146	181302	826.71	pg	100
42) 1,4-Dichlorobenzene	15.77	146	182544	852.79	pg	99
43) 1,2-Dichlorobenzene	16.07	146	168645	821.03	pg	100
44) 1,2,4-Trichlorobenzene	17.55	182	117407	925.00	pg	98
45) Naphthalene	17.64	128	395112	1233.76	pg	100
46) Hexachlorobutadiene	17.97	225	67845	668.05	pg	99

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

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211124.D
Acq On : 21 Jul 2011 11:10 pm
Operator : KR
Sample : 2500pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:06 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211124.D
Acq On : 21 Jul 2011 11:10 pm
Operator : KR
Sample : 2500pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:06 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	55006	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	274813	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	136487	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.10	65	107074	1176.39	pg		0.00
Spiked Amount 1000.000			Recovery = 117.64%				
30) Toluene-d8 (SS2)	11.25	98	300582	1097.38	pg		0.00
Spiked Amount 1000.000			Recovery = 109.74%				
40) Bromofluorobenzene (SS3)	14.45	174	107862	890.87	pg		0.00
Spiked Amount 1000.000			Recovery = 89.09%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.64	85	382052	2727.04	pg		98
3) Chloromethane	4.75	52	55776	1618.26	pg		95
4) Vinyl Chloride	4.87	62	288743	2811.28	pg		98
5) Bromomethane	5.13	94	131080	2125.03	pg		98
6) Chloroethane	5.22	64	158053	2686.43	pg		99
7) Acetone	5.57	58	695005	13256.25	pg		98
8) Trichlorofluoromethane	5.66	101	348518	2749.85	pg		98
9) 1,1-Dichloroethene	6.04	96	178244	2957.78	pg		96
10) Methylene Chloride	6.11	84	191088	2657.81	pg		96
11) Trichlorotrifluoroethane	6.28	151	168558	2584.81	pg		100
12) trans-1,2-Dichloroethene	6.70	96	199351	3002.55	pg		96
13) 1,1-Dichloroethane	6.84	63	299083	2737.02	pg		100
14) Methyl tert-Butyl Ether	6.87	73	626756	3546.54	pg		98
15) cis-1,2-Dichloroethene	7.42	96	201863	3086.25	pg		97
16) Chloroform	7.63	83	314556	2748.04	pg		98
18) 1,2-Dichloroethane	8.19	62	283777	3032.42	pg		97
19) 1,1,1-Trichloroethane	8.39	97	303791	2910.89	pg		99
20) Benzene	8.75	78	768978	2697.04	pg		99
21) Carbon Tetrachloride	8.87	117	253501	2842.55	pg		99
23) 1,2-Dichloropropane	9.44	63	191940	2438.09	pg		99
24) Bromodichloromethane	9.60	83	264572	2513.35	pg		99
25) Trichloroethene	9.64	130	203282	2034.51	pg		99
26) 1,4-Dioxane	9.63	88	163873	2473.66	pg		97
27) cis-1,3-Dichloropropene	10.42	75	300735	2763.08	pg	#	75
28) trans-1,3-Dichloropropene	10.92	75	309603	3297.89	pg		99
29) 1,1,2-Trichloroethane	11.08	83	153231	2277.35	pg		98
31) Toluene	11.34	91	825897	2593.50	pg		99
32) 1,2-Dibromoethane	11.98	107	211690	2543.96	pg		99
33) Tetrachloroethene	12.45	166	207444	2017.29	pg		100
35) Chlorobenzene	13.09	112	526804	2248.56	pg		99

KR 7/22/11

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211124.D
Acq On : 21 Jul 2011 11:10 pm
Operator : KR
Sample : 2500pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07191106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 07:25:06 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

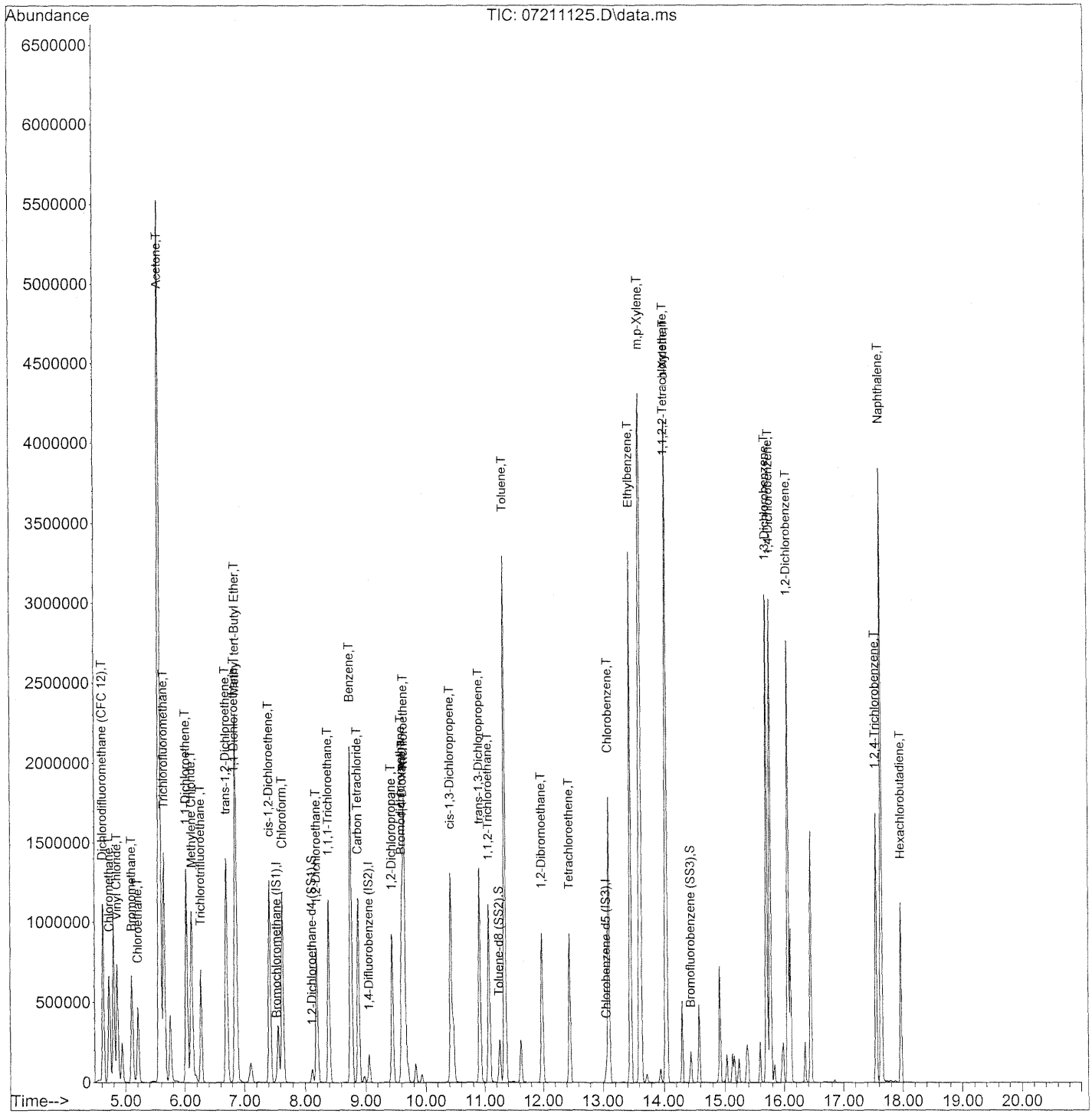
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	910955	2616.34	pg	100
37) m,p-Xylene	13.62	91	1488262	5260.72	pg	97
38) o-Xylene	14.04	91	763954	2579.86	pg	98
39) 1,1,2,2-Tetrachloroethane	14.03	83	321286	2158.62	pg	98
41) 1,3-Dichlorobenzene	15.71	146	463297	2026.16	pg	100
42) 1,4-Dichlorobenzene	15.77	146	472598	2117.54	pg	98
43) 1,2-Dichlorobenzene	16.06	146	439406	2051.72	pg	99
44) 1,2,4-Trichlorobenzene	17.55	182	304581	2301.52	pg	98
45) Naphthalene	17.64	128	1030812	3087.13	pg	100
46) Hexachlorobutadiene	17.97	225	176957	1671.18	pg	100

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211125.D
Acq On : 21 Jul 2011 11:44 pm
Operator : KR
Sample : 10000pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07181105
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 22 07:25:07 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211125.D
Acq On : 21 Jul 2011 11:44 pm
Operator : KR
Sample : 10000pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07181105
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 22 07:25:07 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	65434	1000.00	pg		0.00
22) 1,4-Difluorobenzene (IS2)	9.06	114	313157	1000.00	pg		0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	154663	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.12	65	120903	1116.64	pg		0.01
Spiked Amount 1000.000			Recovery = 111.66%				
30) Toluene-d8 (SS2)	11.25	98	337906	1082.59	pg		0.00
Spiked Amount 1000.000			Recovery = 108.26%				
40) Bromofluorobenzene (SS3)	14.45	174	135111	984.78	pg		0.00
Spiked Amount 1000.000			Recovery = 98.48%				
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.62	85	1436335	8618.48	pg		99
3) Chloromethane	4.73	52	389388	9497.07	pg		98
4) Vinyl Chloride	4.86	62	1196211	9790.55	pg		98
5) Bromomethane	5.11	94	791895	10792.00	pg		98
6) Chloroethane	5.21	64	711384	10164.44	pg		99
7) Acetone	5.58	58	3355135	53795.94	pg		98
8) Trichlorofluoromethane	5.65	101	1757754	11658.67	pg		98
9) 1,1-Dichloroethene	6.03	96	888640	12396.06	pg		98
10) Methylene Chloride	6.12	84	935553	10938.70	pg		98
11) Trichlorotrifluoroethane	6.27	151	799782	10309.97	pg		100
12) trans-1,2-Dichloroethene	6.70	96	992820	12570.38	pg		97
13) 1,1-Dichloroethane	6.85	63	1585498	12197.15	pg		100
14) Methyl tert-Butyl Ether	6.87	73	3094547	14720.08	pg		98
15) cis-1,2-Dichloroethene	7.42	96	1022842	13145.90	pg		98
16) Chloroform	7.64	83	1650622	12122.16	pg		99
18) 1,2-Dichloroethane	8.19	62	1396983	12549.02	pg		96
19) 1,1,1-Trichloroethane	8.40	97	1508005	12146.77	pg		99
20) Benzene	8.76	78	3784822	11159.02	pg		100
21) Carbon Tetrachloride	8.88	117	1318454	12427.96	pg		99
23) 1,2-Dichloropropane	9.44	63	948196	10569.57	pg		99
24) Bromodichloromethane	9.61	83	1330924	11095.24	pg		99
25) Trichloroethene	9.65	130	1024268	8996.01	pg		99
26) 1,4-Dioxane	9.63	88	829808	10992.20	pg		99
27) cis-1,3-Dichloropropene	10.42	75	1521562	12268.02	pg	#	76
28) trans-1,3-Dichloropropene	10.92	75	1615890	15104.91	pg		99
29) 1,1,2-Trichloroethane	11.08	83	777551	10141.16	pg		99
31) Toluene	11.35	91	4088659	11267.22	pg		98
32) 1,2-Dibromoethane	11.99	107	1094680	11544.41	pg		99
33) Tetrachloroethene	12.45	166	1068264	9116.35	pg		99
35) Chlorobenzene	13.09	112	2692036	10140.06	pg		99

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211125.D
Acq On : 21 Jul 2011 11:44 pm
Operator : KR
Sample : 10000pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07181105
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 22 07:25:07 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

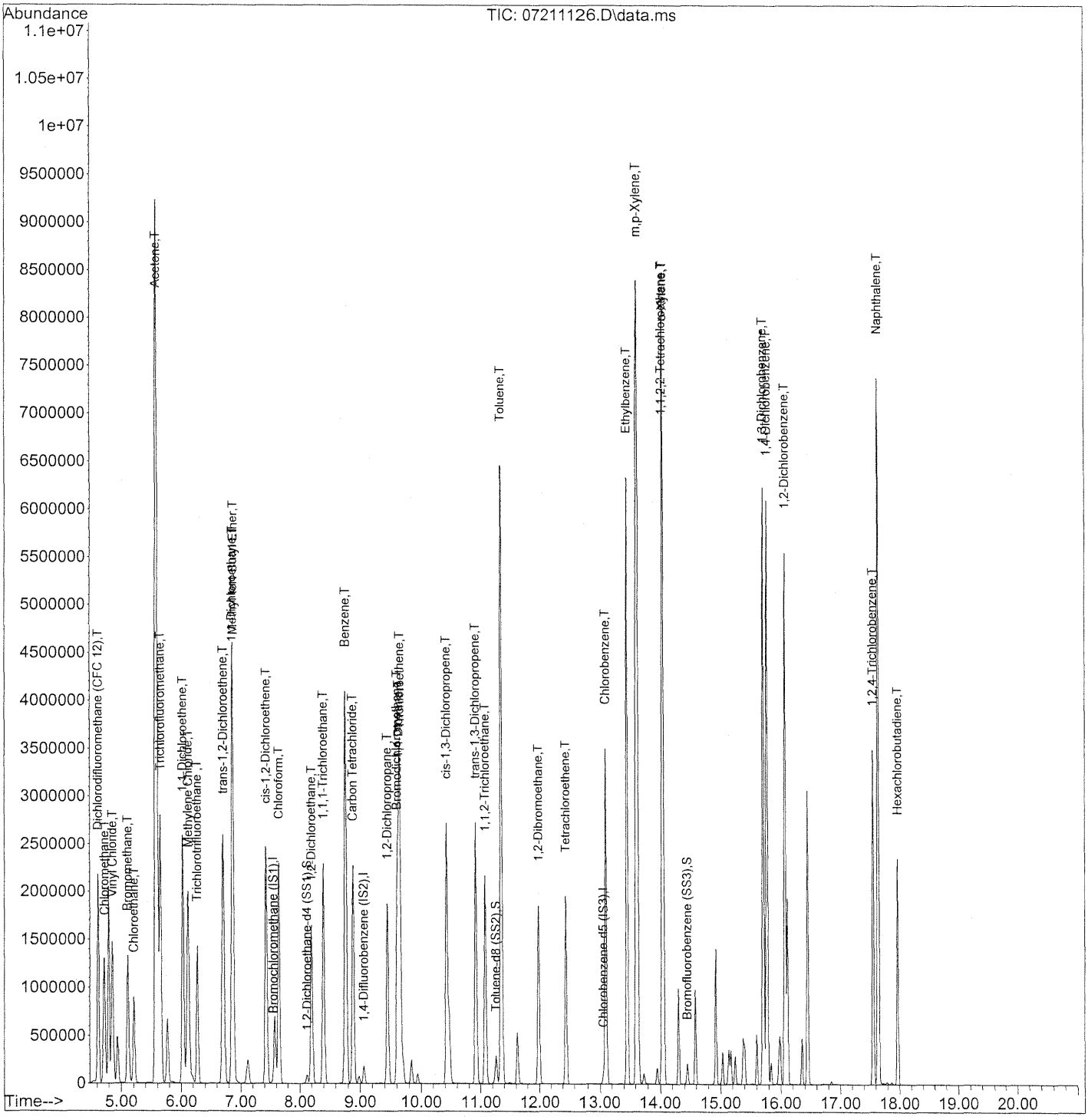
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	4660231	11811.61	pg	99
37) m,p-Xylene	13.63	91	7630348	23802.09	pg	99
38) o-Xylene	14.04	91	3929578	11710.62	pg	100
39) 1,1,2,2-Tetrachloroethane	14.03	83	1694254	10045.40	pg	97
41) 1,3-Dichlorobenzene	15.71	146	2654645	10245.30	pg	100
42) 1,4-Dichlorobenzene	15.77	146	2652551	10488.39	pg	98
43) 1,2-Dichlorobenzene	16.07	146	2510771	10345.82	pg	99
44) 1,2,4-Trichlorobenzene	17.55	182	1748730	11661.08	pg	98
45) Naphthalene	17.64	128	6023810	15920.32	pg	99
46) Hexachlorobutadiene	17.97	225	1044039	8701.14	pg	100

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211126.D
Acq On : 22 Jul 2011 12:13 am
Operator : KR
Sample : 20000pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07181105
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 22 07:36:17 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211126.D
Acq On : 22 Jul 2011 12:13 am
Operator : KR
Sample : 20000pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07181105
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 22 07:36:17 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	7.55	130	70268	1000.00	pg		0.02
22) 1,4-Difluorobenzene (IS2)	9.06	114	329081	1000.00	pg		0.01
34) Chlorobenzene-d5 (IS3)	13.05	82	155476	1000.00	pg		0.00
System Monitoring Compounds							
17) 1,2-Dichloroethane-d4 ...	8.12	65	124154	1067.78	pg		0.02
Spiked Amount 1000.000			Recovery =	106.78%			
30) Toluene-d8 (SS2)	11.26	98	359814	1097.00	pg		0.00
Spiked Amount 1000.000			Recovery =	109.70%			
40) Bromofluorobenzene (SS3)	14.45	174	147521	1069.61	pg		0.00
Spiked Amount 1000.000			Recovery =	106.96%			
Target Compounds							Qvalue
2) Dichlorodifluoromethan...	4.62	85	2783766	15554.41	pg		99
3) Chloromethane	4.73	52	755224	17152.55	pg		97
4) Vinyl Chloride	4.86	62	2370054	18063.57	pg		98
5) Bromomethane	5.11	94	1566960	19885.58	pg		99
6) Chloroethane	5.21	64	1377554	18328.79	pg		99
7) Acetone	5.58	58	6531596	97522.46	pg		91
8) Trichlorofluoromethane	5.65	101	3452834	21326.14	pg		98
9) 1,1-Dichloroethene	6.03	96	1826658	23727.98	pg		100
10) Methylene Chloride	6.12	84	1844578	20083.54	pg		92
11) Trichlorotrifluoroethane	6.27	151	1694766	20344.23	pg		100
12) trans-1,2-Dichloroethene	6.71	96	1961613	23127.95	pg		98
13) 1,1-Dichloroethane	6.86	63	3225339	23105.42	pg		99
14) Methyl tert-Butyl Ether	6.87	73	6097709	27010.07	pg		98
15) cis-1,2-Dichloroethene	7.43	96	2074080	24822.93	pg		99
16) Chloroform	7.65	83	3231644	22100.48	pg		99
18) 1,2-Dichloroethane	8.20	62	2754713	23043.11	pg		96
19) 1,1,1-Trichloroethane	8.40	97	3054759	22912.93	pg		99
20) Benzene	8.76	78	7447052	20446.12	pg		99
21) Carbon Tetrachloride	8.88	117	2686265	23579.23	pg		99
23) 1,2-Dichloropropane	9.45	63	1888700	20034.64	pg		99
24) Bromodichloromethane	9.61	83	2736696	21710.48	pg		99
25) Trichloroethene	9.66	130	2066615	17272.50	pg		99
26) 1,4-Dioxane	9.64	88	1659718	20921.88	pg		99
27) cis-1,3-Dichloropropene	10.43	75	3122868	23960.60	pg	#	78
28) trans-1,3-Dichloropropene	10.92	75	3188343	28361.61	pg		98
29) 1,1,2-Trichloroethane	11.08	83	1508137	18717.98	pg		99
31) Toluene	11.36	91	8318856	21815.18	pg		97
32) 1,2-Dibromoethane	11.99	107	2167068	21747.86	pg		99
33) Tetrachloroethene	12.46	166	2245432	18234.83	pg		99
35) Chlorobenzene	13.10	112	5265325	19729.13	pg		98

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211126.D
Acq On : 22 Jul 2011 12:13 am
Operator : KR
Sample : 20000pg TO-15/SIM ICAL STD
Misc : S25-07081101/S25-07181105
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 22 07:36:17 2011
Quant Method : J:\Ms07\METHODS\X7072111.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Jul 22 07:24:11 2011
Response via : Initial Calibration

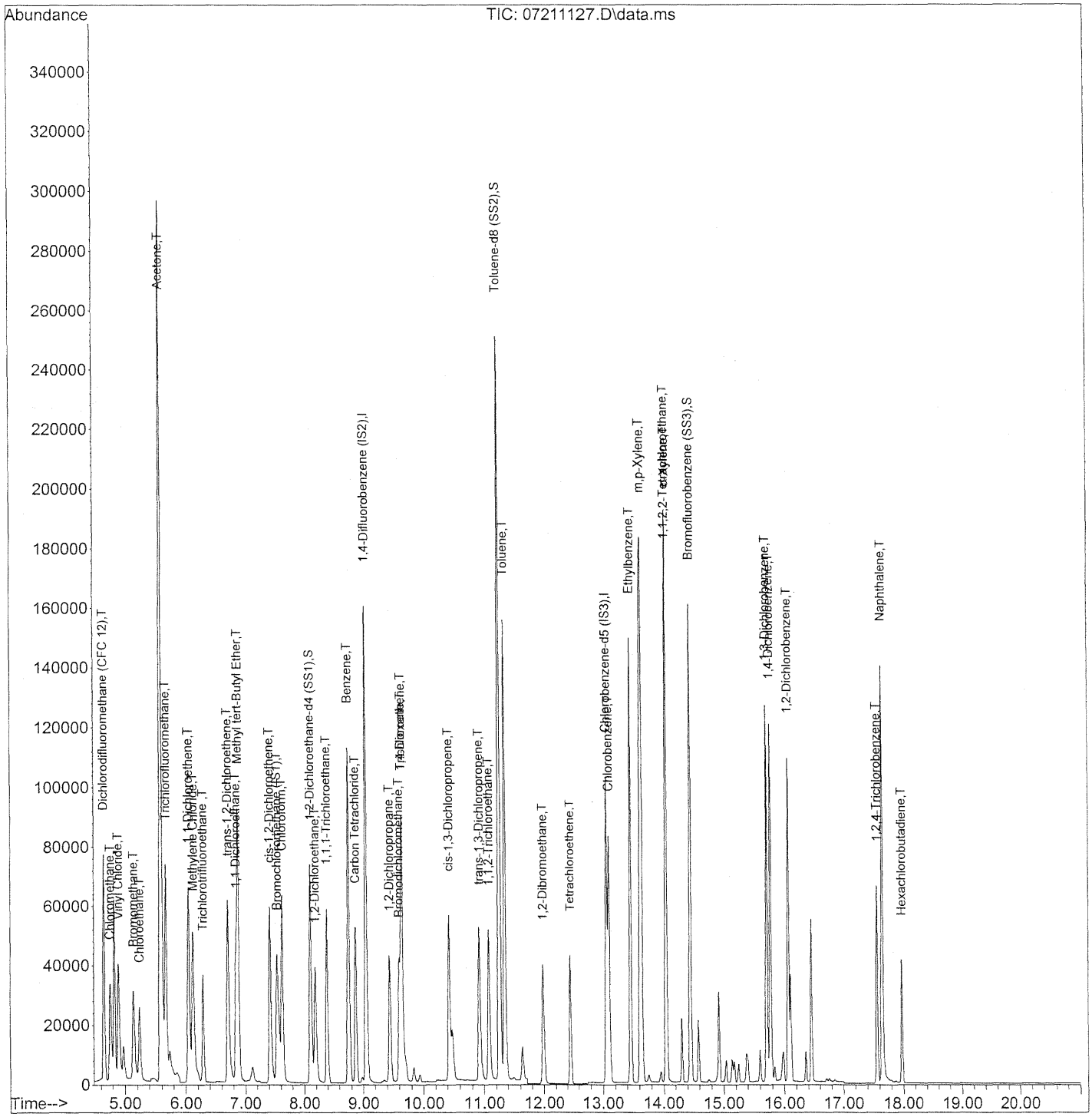
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	8959106	22588.61	pg	97
37) m,p-Xylene	13.63	91	14819489	45986.15	pg	98
38) o-Xylene	14.05	91	7738086	22939.85	pg	98
39) 1,1,2,2-Tetrachloroethane	14.03	83	3449948	20348.12	pg	97
41) 1,3-Dichlorobenzene	15.71	146	5288708	20304.43	pg	99
42) 1,4-Dichlorobenzene	15.77	146	5328940	20960.86	pg	97
43) 1,2-Dichlorobenzene	16.07	146	4997921	20486.62	pg	98
44) 1,2,4-Trichlorobenzene	17.55	182	3673341	24366.90	pg	97
45) Naphthalene	17.64	128	11794192	31007.86	pg	97
46) Hexachlorobutadiene	17.97	225	2189047	18148.36	pg	100

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

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211127.D
Acq On : 22 Jul 2011 12:43 am
Operator : KR
Sample : 500pg TO-15/SIM ICV STD
Misc : S25-07081101/S25-07191112
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 06 11:17:10 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211127.D
Acq On : 22 Jul 2011 12:43 am
Operator : KR
Sample : 500pg TO-15/SIM ICV STD
Misc : S25-07081101/S25-07191112
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 06 11:17:10 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.54	130	64685	1000.00	pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	304008	1000.00	pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	145305	1000.00	pg	0.00
System Monitoring Compounds						
17) 1,2-Dichloroethane-d4 ...	8.11	65	119364	943.86	pg	0.00
Spiked Amount 1000.000			Recovery = 94.39%			
30) Toluene-d8 (SS2)	11.25	98	326798	988.84	pg	0.00
Spiked Amount 1000.000			Recovery = 98.88%			
40) Bromofluorobenzene (SS3)	14.45	174	115864	1001.50	pg	0.00
Spiked Amount 1000.000			Recovery = 100.15%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	4.65	85	98555	518.91	pg	99
3) Chloromethane	4.76	52	21010	448.57	pg	95
4) Vinyl Chloride	4.89	62	71670	426.07	pg	99
5) Bromomethane	5.14	94	40108	534.47	pg	98
6) Chloroethane	5.24	64	39143	448.05	pg	97
7) Acetone	5.59	58	177157	2375.70	pg	96
8) Trichlorofluoromethane	5.67	101	81849	460.27	pg	99
9) 1,1-Dichloroethene	6.05	96	44628	526.92	pg	98
10) Methylene Chloride	6.12	84	44687	441.63	pg	91
11) Trichlorotrifluoroethane	6.29	151	41065	502.05	pg	100
12) trans-1,2-Dichloroethene	6.71	96	47119	474.63	pg	100
13) 1,1-Dichloroethane	6.85	63	71191	466.17	pg	100
14) Methyl tert-Butyl Ether	6.88	73	148520	473.50	pg	98
15) cis-1,2-Dichloroethene	7.42	96	51359	506.63	pg	99
16) Chloroform	7.63	83	87708	488.01	pg	99
18) 1,2-Dichloroethane	8.19	62	68250	473.21	pg	96
19) 1,1,1-Trichloroethane	8.39	97	74196	465.60	pg	99
20) Benzene	8.75	78	202900	485.14	pg	99
21) Carbon Tetrachloride	8.87	117	59078	473.43	pg	98
23) 1,2-Dichloropropane	9.44	63	44957	470.42	pg	99
24) Bromodichloromethane	9.60	83	58870	470.50	pg	98
25) Trichloroethene	9.64	130	49123	459.88	pg	98
26) 1,4-Dioxane	9.64	88	37920	470.17	pg	95
27) cis-1,3-Dichloropropene	10.43	75	69874	464.83	pg	98
28) trans-1,3-Dichloropropene	10.93	75	70744	511.50	pg	99
29) 1,1,2-Trichloroethane	11.08	83	35925	471.97	pg	99
31) Toluene	11.35	91	195806	478.20	pg	99
32) 1,2-Dibromoethane	11.99	107	49894	475.40	pg	98
33) Tetrachloroethene	12.45	166	49447	431.53	pg	100
35) Chlorobenzene	13.09	112	124772	503.89	pg	99

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211127.D
Acq On : 22 Jul 2011 12:43 am
Operator : KR
Sample : 500pg TO-15/SIM ICV STD
Misc : S25-07081101/S25-07191112
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 06 11:17:10 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	208855	479.32	pg	100
37) m,p-Xylene	13.62	91	334127	941.84	pg	98
38) o-Xylene	14.04	91	169420	468.13	pg	98
39) 1,1,2,2-Tetrachloroethane	14.03	83	71938	449.50	pg	98
41) 1,3-Dichlorobenzene	15.71	146	104977	488.42	pg	100
42) 1,4-Dichlorobenzene	15.77	146	107802	499.15	pg	98
43) 1,2-Dichlorobenzene	16.06	146	98017	474.41	pg	99
44) 1,2,4-Trichlorobenzene	17.55	182	70675	484.39	pg	98
45) Naphthalene	17.64	128	242906	457.39	pg	100
46) Hexachlorobutadiene	17.97	225	38760	456.21	pg	100

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

TO-15/SIM ICV Recovery Summary - MS07

Data File Name:	07211127.D
Data File Path:	J:\Ms07\DATA\2011_07\21\
Operator:	KR
Instrument Name:	MS07
Sample Name:	500pg TO-15/SIM ICV STD
Misc Info:	S25-07081101/S25-07191112
Date Acquired:	7/22/2011 12:43
Acq. Method File:	TO15SIM2

#	Compound Name	Ret. Time	Amount Spiked (pg)	Amount Found (pg)	Percent Recovery	Lower Limit	Upper Limit	Flag
2)	Dichlorodifluoromethane (CFC 12)	4.65	490.00	518.91	105.9	70	130	*
3)	Chloromethane	4.76	475.00	448.57	94.4	70	130	*
4)	Vinyl Chloride	4.89	485.00	426.07	87.8	70	130	*
5)	Bromomethane	5.14	485.00	534.47	110.2	70	130	*
6)	Chloroethane	5.24	490.00	448.05	91.4	70	130	*
7)	Acetone	5.59	2520.00	2375.70	94.3	70	130	*
8)	Trichlorofluoromethane	5.67	505.00	460.27	91.1	70	130	*
9)	1,1-Dichloroethene	6.05	530.00	526.92	99.4	70	130	*
10)	Methylene Chloride	6.12	515.00	441.63	85.8	70	130	*
11)	Trichlorotrifluoroethane	6.29	515.00	502.05	97.5	70	130	*
12)	trans-1,2-Dichloroethene	6.71	490.00	474.63	96.9	70	130	*
13)	1,1-Dichloroethane	6.85	500.00	466.17	93.2	70	130	*
14)	Methyl tert-Butyl Ether	6.88	495.00	473.50	95.7	70	130	*
15)	cis-1,2-Dichloroethene	7.42	515.00	506.63	98.4	70	130	*
16)	Chloroform	7.63	535.00	488.01	91.2	70	130	*
18)	1,2-Dichloroethane	8.19	500.00	473.21	94.6	70	130	*
19)	1,1,1-Trichloroethane	8.39	495.00	465.60	94.1	70	130	*
20)	Benzene	8.75	495.00	485.14	98.0	70	130	*
21)	Carbon Tetrachloride	8.87	505.00	473.43	93.7	70	130	*
23)	1,2-Dichloropropane	9.44	495.00	470.42	95.0	70	130	*
24)	Bromodichloromethane	9.60	495.00	470.50	95.0	70	130	*
25)	Trichloroethene	9.64	485.00	459.88	94.8	70	130	*
26)	1,4-Dioxane	9.64	500.00	470.17	94.0	70	130	*
27)	cis-1,3-Dichloropropene	10.43	470.00	464.83	98.9	70	130	*
28)	trans-1,3-Dichloropropene	10.93	525.00	511.50	97.4	70	130	*
29)	1,1,2-Trichloroethane	11.08	490.00	471.97	96.3	70	130	*
31)	Toluene	11.35	505.00	478.20	94.7	70	130	*
32)	1,2-Dibromoethane	11.99	500.00	475.40	95.1	70	130	*
33)	Tetrachloroethene	12.45	460.00	431.53	93.8	70	130	*
35)	Chlorobenzene	13.09	505.00	503.89	99.8	70	130	*
36)	Ethylbenzene	13.46	495.00	479.32	96.8	70	130	*
37)	m,p-Xylene	13.62	980.00	941.84	96.1	70	130	*
38)	o-Xylene	14.04	485.00	468.13	96.5	70	130	*
39)	1,1,2,2-Tetrachloroethane	14.03	480.00	449.50	93.6	70	130	*
41)	1,3-Dichlorobenzene	15.71	500.00	488.42	97.7	70	130	*
42)	1,4-Dichlorobenzene	15.77	515.00	499.15	96.9	70	130	*
43)	1,2-Dichlorobenzene	16.06	495.00	474.41	95.8	70	130	*
44)	1,2,4-Trichlorobenzene	17.55	490.00	484.39	98.9	70	130	*
45)	Naphthalene	17.64	430.00	457.39	106.4	70	130	*
46)	Hexachlorobutadiene	17.97	505.00	456.21	90.3	70	130	*

10/6/11

Evaluate Continuing Calibration Report

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061104.D
Acq On : 6 Oct 2011 7:58
Operator : KR
Sample : 500pg TO-15/SIM CCV STD
Misc : S25-09061101/S25-09301103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:27:57 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
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	I	Bromochloromethane (IS1)	1.000	1.000	0.0	114	0.00
2	T	Dichlorodifluoromethane (CF	2.936	2.572	12.4	96	0.00
3	T	Chloromethane	0.724	0.633	12.6	104	0.00
4	T	Vinyl Chloride	2.600	2.116	18.6	98	0.00
5	T	Bromomethane	1.160	1.124	3.1	108	0.00
6	T	Chloroethane	1.351	1.142	15.5	100	0.00
7	T	Acetone	1.153	0.970	15.9	96	0.00
8	T	Trichlorofluoromethane	2.749	2.242	18.4	96	0.00
9	T	1,1-Dichloroethene	1.309	1.094	16.4	97	0.00
10	T	Methylene Chloride	1.564	1.213	22.4	99	0.00
11	T	Trichlorotrifluoroethane	1.265	1.040	17.8	96	0.00
12	T	trans-1,2-Dichloroethene	1.535	1.258	18.0	96	0.00
13	T	1,1-Dichloroethane	2.361	2.147	9.1	110	0.00
14	T	Methyl tert-Butyl Ether	4.849	3.737	22.9	90	0.00
15	T	cis-1,2-Dichloroethene	1.567	1.303	16.8	98	0.00
16	T	Chloroform	2.778	2.197	20.9	94	0.00
17	S	1,2-Dichloroethane-d4 (SS1)	1.955	1.917	1.9	107	0.00
18	T	1,2-Dichloroethane	2.230	1.812	18.7	94	0.00
19	T	1,1,1-Trichloroethane	2.464	1.920	22.1	91	0.00
20	T	Benzene	6.466	5.087	21.3	96	0.00
21	T	Carbon Tetrachloride	1.929	1.462	24.2	91	0.00
22	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	106	0.00
23	T	1,2-Dichloropropane	0.314	0.279	11.1	97	0.00
24	T	Bromodichloromethane	0.412	0.343	16.7	92	0.00
25	T	Trichloroethene	0.351	0.289	17.7	96	0.00
26	T	1,4-Dioxane	0.265	0.207	21.9	91	0.00
27	T	cis-1,3-Dichloropropene	0.494	0.396	19.8	90	0.00
28	T	trans-1,3-Dichloropropene	0.455	0.349	23.3	86	0.00
29	T	1,1,2-Trichloroethane	0.250	0.222	11.2	97	0.00
30	S	Toluene-d8 (SS2)	1.087	1.124	-3.4	111	0.00
31	T	Toluene	1.347	1.147	14.8	97	0.00
32	T	1,2-Dibromoethane	0.345	0.282	18.3	94	0.00
33	T	Tetrachloroethene	0.377	0.318	15.6	98	0.00
34	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	110	0.00
35	T	Chlorobenzene	1.704	1.437	15.7	95	0.00
36	T	Ethylbenzene	2.999	2.356	21.4	90	0.00
37	T	m,p-Xylene	2.441	1.869	23.4	89	0.00

10/7/11

Evaluate Continuing Calibration Report

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061104.D
Acq On : 6 Oct 2011 7:58
Operator : KR
Sample : 500pg TO-15/SIM CCV STD
Misc : S25-09061101/S25-09301103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:27:57 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
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)
38	T	o-Xylene	2.491	1.953	21.6	92	0.00
39	T	1,1,2,2-Tetrachloroethane	1.101	0.934	15.2	95	0.00
40	S	Bromofluorobenzene (SS3)	0.796	0.770	3.3	112	0.00
41	T	1,3-Dichlorobenzene	1.479	1.178	20.4	94	0.00
42	T	1,4-Dichlorobenzene	1.486	1.198	19.4	94	0.00
43	T	1,2-Dichlorobenzene	1.422	1.145	19.5	95	0.00
44	T	1,2,4-Trichlorobenzene	1.004	0.770	23.3	94	0.00
45	T	Naphthalene	3.655	2.619	28.3	86	0.00
46	T	Hexachlorobutadiene	0.585	0.486	16.9	103	0.00

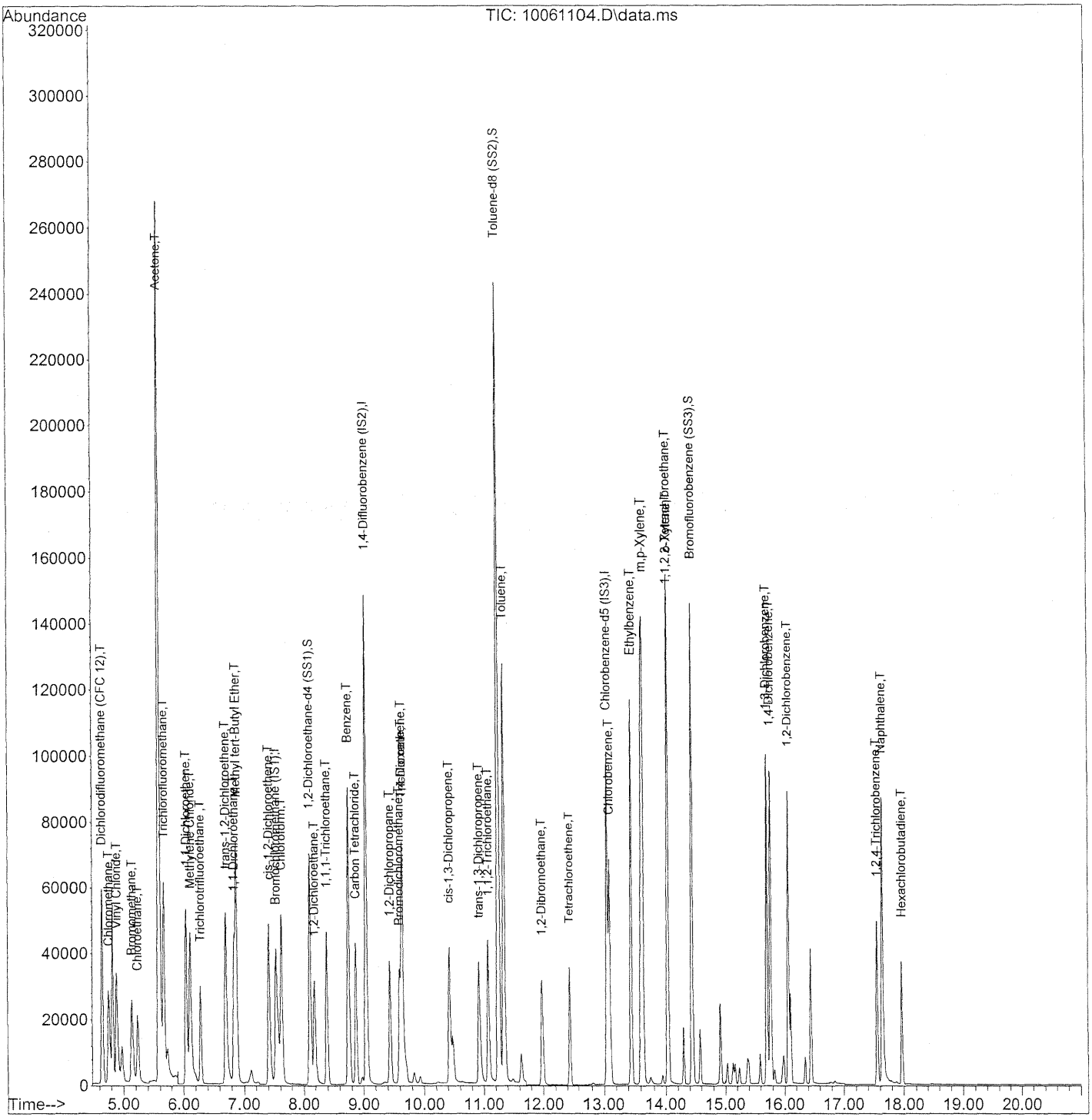
(#) = Out of Range SPCC's out = 0 CCC's out = 0

10/7/11

Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061104.D
Acq On : 6 Oct 2011 7:58
Operator : KR
Sample : 500pg TO-15/SIM CCV STD
Misc : S25-09061101/S25-09301103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:27:57 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061104.D
Acq On : 6 Oct 2011 7:58
Operator : KR
Sample : 500pg TO-15/SIM CCV STD
Misc : S25-09061101/S25-09301103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:27:57 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.53	130	61147	1000.00	pg	0.00
22) 1,4-Difluorobenzene (IS2)	9.05	114	280779	1000.00	pg	0.00
34) Chlorobenzene-d5 (IS3)	13.05	82	140173	1000.00	pg	0.00
System Monitoring Compounds						
17) 1,2-Dichloroethane-d4 ...	8.10	65	117213	980.48	pg	0.00
Spiked Amount 1000.000			Recovery = 98.05%			
30) Toluene-d8 (SS2)	11.25	98	315606	1033.98	pg	0.00
Spiked Amount 1000.000			Recovery = 103.40%			
40) Bromofluorobenzene (SS3)	14.45	174	107991	967.62	pg	0.00
Spiked Amount 1000.000			Recovery = 96.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethan...	4.65	85	77840	433.56	pg	98
3) Chloromethane	4.76	52	18568	419.37	pg	92
4) Vinyl Chloride	4.89	62	62749	394.62	pg	99
5) Bromomethane	5.14	94	33321	469.72	pg	99
6) Chloroethane	5.23	64	33877	410.21	pg	98
7) Acetone	5.58	58	154779	2195.71	pg	100
8) Trichlorofluoromethane	5.67	101	67855	403.65	pg	98
9) 1,1-Dichloroethene	6.05	96	35798	447.12	pg	94
10) Methylene Chloride	6.12	84	38575	403.28	pg	84
11) Trichlorotrifluoroethane	6.28	151	33055	427.50	pg	100
12) trans-1,2-Dichloroethene	6.71	96	39220	417.92	pg	96
13) 1,1-Dichloroethane	6.84	63	66299	459.26	pg	100
14) Methyl tert-Butyl Ether	6.88	73	117692	396.92	pg	96
15) cis-1,2-Dichloroethene	7.42	96	41425	432.28	pg	96
16) Chloroform	7.62	83	69864	411.22	pg	99
18) 1,2-Dichloroethane	8.19	62	55958	410.43	pg	97
19) 1,1,1-Trichloroethane	8.39	97	58695	389.64	pg	98
20) Benzene	8.75	78	163297	413.04	pg	99
21) Carbon Tetrachloride	8.87	117	47393	401.77	pg	99
23) 1,2-Dichloropropane	9.44	63	39157	443.63	pg	99
24) Bromodichloromethane	9.60	83	49617	429.35	pg	99
25) Trichloroethene	9.64	130	40101	406.47	pg	99
26) 1,4-Dioxane	9.64	88	30269	406.36	pg	98
27) cis-1,3-Dichloropropene	10.43	75	52846	380.63	pg	98
28) trans-1,3-Dichloropropene	10.93	75	51898	406.28	pg	99
29) 1,1,2-Trichloroethane	11.08	83	30788	437.94	pg	97
31) Toluene	11.35	91	164273	434.38	pg	100
32) 1,2-Dibromoethane	11.99	107	39924	411.87	pg	99
33) Tetrachloroethene	12.45	166	41484	391.99	pg	100
35) Chlorobenzene	13.09	112	102705	429.96	pg	99

10/7/11

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061104.D
Acq On : 6 Oct 2011 7:58
Operator : KR
Sample : 500pg TO-15/SIM CCV STD
Misc : S25-09061101/S25-09301103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:27:57 2011
Quant Method : J:\Ms07\METHODS\X7072111A.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Oct 06 11:07:18 2011
Response via : Initial Calibration

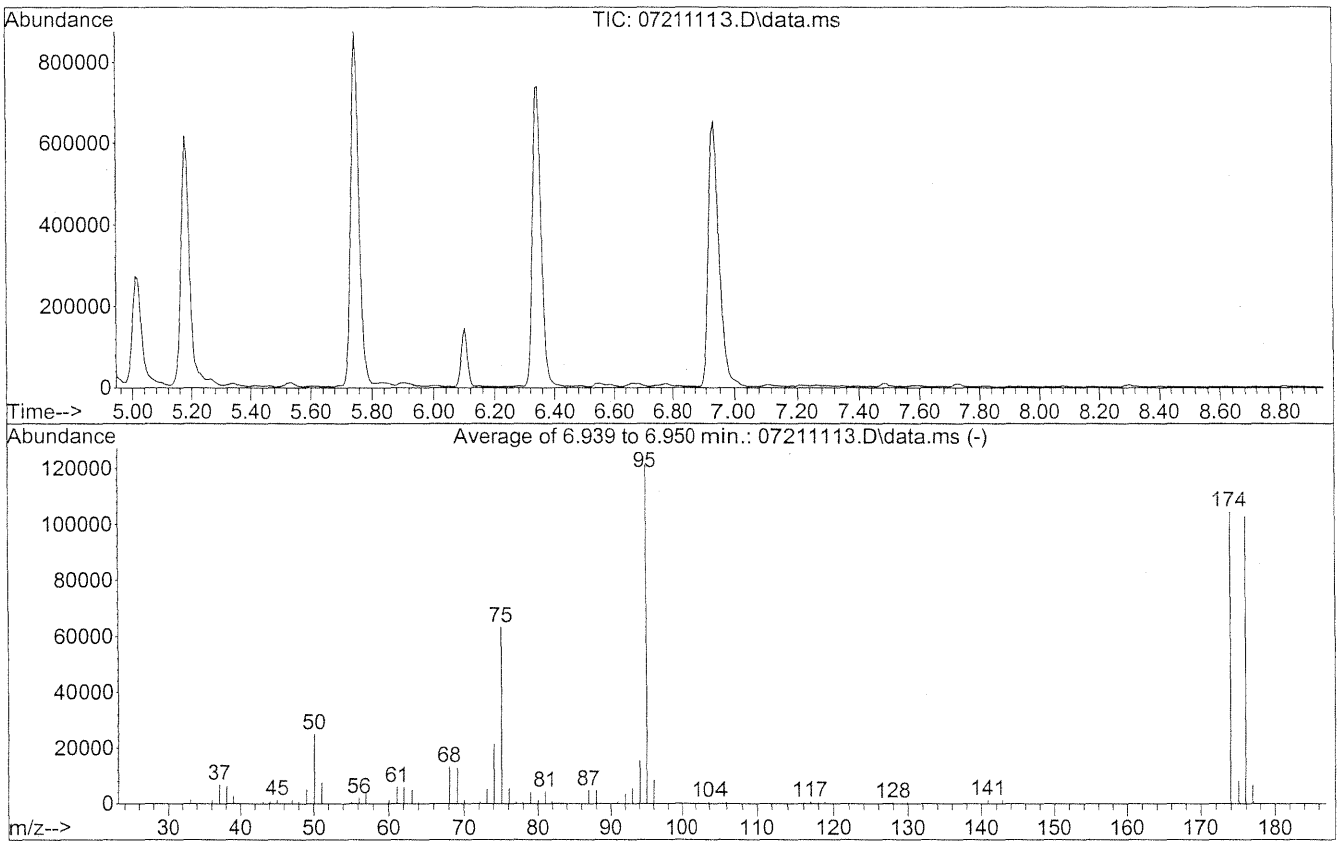
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Ethylbenzene	13.46	91	165127	392.84	pg	98
37) m,p-Xylene	13.62	91	259385	757.93	pg	97
38) o-Xylene	14.04	91	134111	384.13	pg	97
39) 1,1,2,2-Tetrachloroethane	14.03	83	62160	402.62	pg	98
41) 1,3-Dichlorobenzene	15.71	146	85053	410.21	pg	99
42) 1,4-Dichlorobenzene	15.77	146	86470	415.04	pg	100
43) 1,2-Dichlorobenzene	16.07	146	80240	402.59	pg	100
44) 1,2,4-Trichlorobenzene	17.55	182	55071	391.26	pg	99
45) Naphthalene	17.64	128	167045	326.06	pg	100
46) Hexachlorobutadiene	17.97	225	35068	427.87	pg	100

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

Data Path : J:\Ms07\DATA\2011_07\21\
Data File : 07211113.D
Acq On : 21 Jul 2011 5:38 pm
Operator : KR
Sample : 25ng BFB
Misc : S25-07081101
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : J:\Ms07\METHODS\X7072111.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Fri Jul 22 07:24:11 2011



AutoFind: Scans 414, 415, 416; Background Corrected with Scan 405

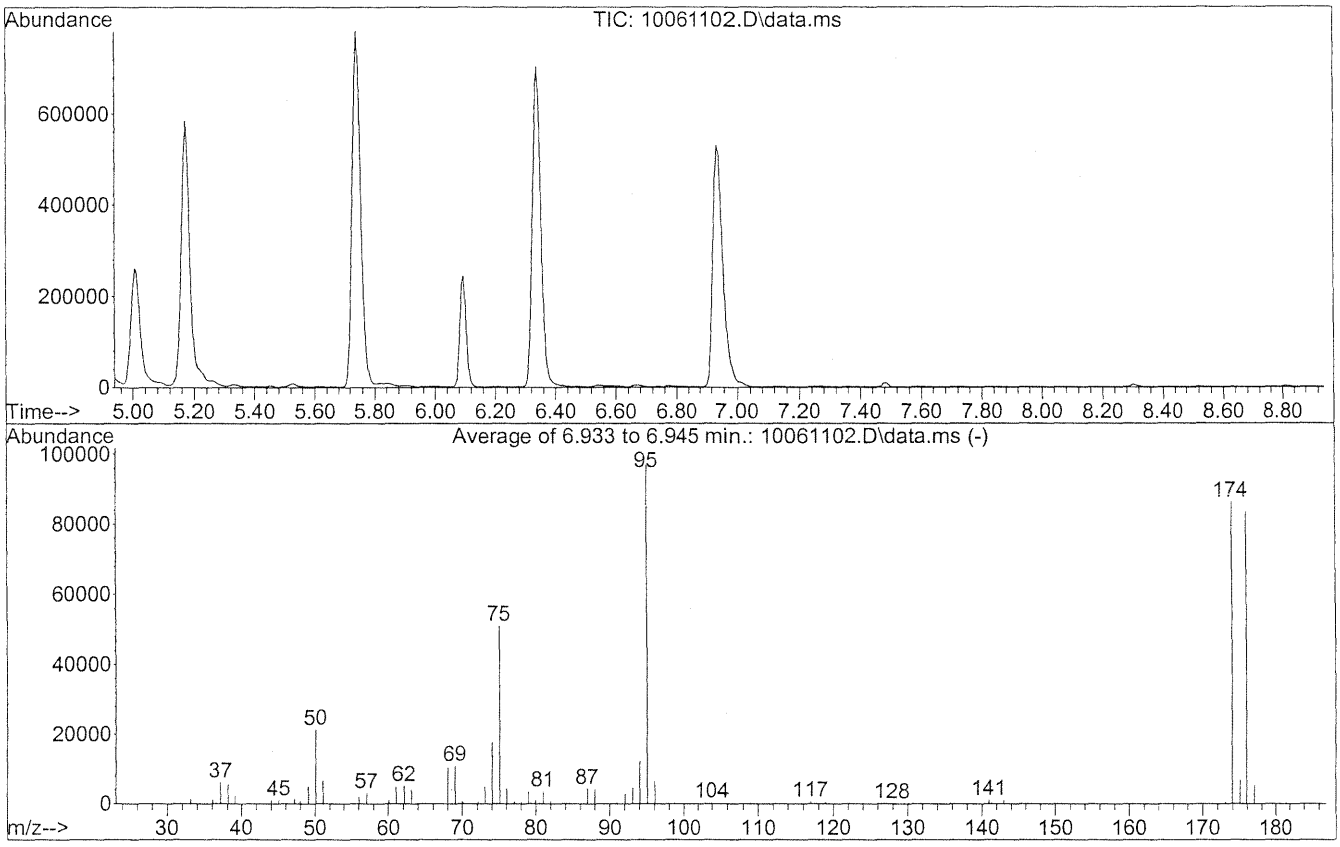
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.5	24896	PASS
75	95	30	66	52.2	63248	PASS
95	95	100	100	100.0	121187	PASS
96	95	5	9	6.9	8319	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.2	104491	PASS
175	174	4	9	7.8	8193	PASS
176	174	93	101	98.5	102901	PASS
177	176	5	9	6.4	6595	PASS

7/22/11

Data Path : J:\Ms07\DATA\2011_10\06\
Data File : 10061102.D
Acq On : 6 Oct 2011 7:04
Operator : KR
Sample : 25ng TO-15/SIM BFB
Misc : S25-09061101
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : J:\Ms07\METHODS\X7072111A.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu Oct 06 11:07:18 2011



AutoFind: Scans 413, 414, 415; Background Corrected with Scan 405

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.9	21256	PASS
75	95	30	66	52.6	50952	PASS
95	95	100	100	100.0	96843	PASS
96	95	5	9	6.7	6512	PASS
173	174	0.00	2	0.4	341	PASS
174	95	50	120	89.0	86229	PASS
175	174	4	9	7.7	6669	PASS
176	174	93	101	96.7	83395	PASS
177	176	5	9	6.3	5241	PASS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	7/21/2011 9:12	07211101.D	5ng BFB	S25-07081101	KR	2	
2	7/21/2011 9:53	07211102.D	BFB	S25-07081101	KR	2	
3	7/21/2011 10:47	07211103.D	BFB	S25-07081101	KR	1	
4	7/21/2011 11:20	07211104.D	0.5ng Std Test	S25-07081101	KR	1	
5	7/21/2011 12:20	07211105.D	0.5ng Std Test	S25-07081101	KR	1	
6	7/21/2011 13:54	07211106.D	0.010ng Std Test	S25-07081101	KR	2	
7	7/21/2011 14:28	07211107.D	0.010ng Std Test	S25-07081101	KR	3	
8	7/21/2011 14:57	07211108.D	0.025ng Std Test	S25-07081101	KR	4	
9	7/21/2011 15:26	07211109.D	0.5ng Std Test	S25-07081101	KR	5	
10	7/21/2011 16:00	07211110.D	0.5ng Std Test	S25-07081101	KR	6	
11	7/21/2011 16:34	07211111.D	10ng Std Test	S25-07081101	KR	7	
12	7/21/2011 17:04	07211112.D	Blank	S25-07081101	KR	1	
13	7/21/2011 17:38	07211113.D	25ng BFB	S25-07081101	KR	1	*Pass*
14	7/21/2011 18:08	07211114.D	Blank	S25-07081101	KR	1	
15	7/21/2011 18:37	07211115.D	Blank	S25-07081101	KR	1	
16	7/21/2011 19:07	07211116.D	Blank	S25-07081101	KR	1	
17	7/21/2011 19:36	07211117.D	Blank	S25-07081101	KR	1	
18	7/21/2011 20:10	07211118.D	10pg TO-15/SIM ICAL STD	S25-07081101/S25-07191108	KR	13	
19	7/21/2011 20:39	07211119.D	25pg TO-15/SIM ICAL STD	S25-07081101/S25-07191108	KR	13	
20	7/21/2011 21:08	07211120.D	75pg TO-15/SIM ICAL STD	S25-07081101/S25-07191108	KR	13	
21	7/21/2011 21:42	07211121.D	100pg TO-15/SIM ICAL STD	S25-07081101/S25-07191106	KR	1	
22	7/21/2011 22:11	07211122.D	500pg TO-15/SIM ICAL STD	S25-07081101/S25-07191106	KR	1	
23	7/21/2011 22:41	07211123.D	1000pg TO-15/SIM ICAL STD	S25-07081101/S25-07191106	KR	1	
24	7/21/2011 23:10	07211124.D	2500pg TO-15/SIM ICAL STD	S25-07081101/S25-07191106	KR	1	
25	7/21/2011 23:44	07211125.D	10000pg TO-15/SIM ICAL STD	S25-07081101/S25-07181105	KR	14	
26	7/22/2011 0:13	07211126.D	20000pg TO-15/SIM ICAL STD	S25-07081101/S25-07181105	KR	14	*ICAL Good X7072111.M*
27	7/22/2011 0:43	07211127.D	500pg TO-15/SIM ICV STD	S25-07081101/S25-07191112	KR	16	*Pass*
28	7/22/2011 1:17	07211128.D	500pg TO-15/SIM ICV STD	S25-07081101/S25-07191111	KR	15	*Case file*
29	7/22/2011 1:46	07211129.D	Blank	S25-07081101	KR	1	
30	7/22/2011 2:15	07211130.D	Blank	S25-07081101	KR	1	
		ICAL X7072111.M good for 25pg-20000pg except Vinyl chloride, TCE, & PCE 10pg-20000pg;Acetone 500pg-100000pg;					
		Chloroform 100pg-20000pg; Benzene 75pg-20000pg					

KR 7/22/11

ICAL saved also as X7072111A.M ; same as original except for 1,2-Dibromoethane range from 10 pg – 20000 pg.

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/30/11 5:32	09301101.D	25ng TO-15/SIM BFB	S25-09061101	WA/LC	1	*Pass*
2	09/30/11 5:57	09301102.D	Blank	S25-09061101	WA/LC	1	
3	09/30/11 7:54	09301103.D	500pg TO-15/SIM CCV STD	S25-09061101/S25-09231102	WA/LC	15	*Pass*
4	09/30/11 8:26	09301104.D	CAS CAN QC CXXI	AC00915/FCA00333/AVG01930	WA/LC	2	*Pass*
5	09/30/11 9:35	09301105.D	500PG TO-15/SIM LCS STD (125mL)	S25-09061101/S25-09231111	WA/LC	16	
6	09/30/11 10:07	09301106.D	TO-15/SIM METHOD BLANK (1000mL)	S25-09061101	WA/LC	1	*Pass*
7	09/30/11 10:36	09301107.D	500PG TO-15/SIM LCS STD (125mL)	S25-09061101/S25-09231111	WA/LC	16	*Pass*
8	09/30/11 11:50	09301108.D	Blank	S25-09061101	WA/LC	1	
9	09/30/11 12:21	09301109.D	P1103697-001 (1000mL)		WA/LC	2	
10	09/30/11 12:53	09301110.D	P1103729-001 (1000mL)		WA/LC	4	
11	09/30/11 13:25	09301111.D	P1103729-002 (1000mL)		WA/LC	5	
12	09/30/11 13:57	09301112.D	P1103729-003 (1000mL)		WA/LC	6	
13	09/30/11 14:29	09301113.D	P1103729-004 (1000mL)		WA/LC	7	
14	09/30/11 15:00	09301114.D	P1103729-005 (1000mL)		WA/LC	8	
15	09/30/11 15:32	09301115.D	P1103697-002 (1000mL)		WA/LC	3	
16	09/30/11 16:04	09301116.D	P1103697-002 dup (1000mL)		WA/LC	3	*Pass as dup*
17	09/30/11 16:36	09301117.D	P1103664-001 (1000mL)		WA/LC	9	
18	09/30/11 17:08	09301118.D	P1103664-002 (1000mL)		WA/LC	10	
19	09/30/11 17:37	09301119.D	500PG TO-15/SIM LCSD STD (125mL)	S25-09061101/S25-09231111	WA/LC	16	*Pass*

10/31

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	10/06/11 6:36	10061101.D	Blank	S25-09061101	KR	1	
2	10/06/11 7:04	10061102.D	25ng TO-15/SIM BFB	S25-09061101	KR	2	*Pass*
3	10/06/11 7:29	10061103.D	Blank	S25-09061101	KR	1	
4	10/06/11 7:58	10061104.D	500pg TO-15/SIM CCV STD	S25-09061101/S25-09301103	KR	1	*Pass*
5	10/06/11 8:27	10061105.D	Blank	S25-09061101	KR	1	
6	10/06/11 9:03	10061106.D	TO-15/SIM Method Blank(1000mL)	S25-09061101	KR	1	*Pass*
7	10/06/11 10:37	10061107.D	TO-15/SIM Method Blank (1000mL)	S25-09061101	KR	1	*Pass, extra*
8	10/06/11 11:06	10061108.D	500pg TO-15/SIM LCS STD (125mL)	S25-09061101/S25-09231111	KR	16	*Pass*
9	10/06/11 11:35	10061109.D	Blank		KR	1	
10	10/06/11 12:07	10061110.D	P1103775-001 (1000mL)		KR	5	
11	10/06/11 12:39	10061111.D	P1103775-002 (1000mL)		KR	6	
12	10/06/11 13:11	10061112.D	P1103775-003 (1000mL)		KR	7	
13	10/06/11 13:43	10061113.D	P1103775-004 (1000mL)		KR	8	
14	10/06/11 14:15	10061114.D	P1103783-006 (1000mL)		KR	2	
15	10/06/11 14:47	10061115.D	P1103783-006 dup (1000mL)		KR	2	*Pass as dup*
16	10/06/11 15:19	10061116.D	P1103783-010 (1000mL)		KR	3	
17	10/06/11 15:51	10061117.D	P1103783-011 (1000mL)		KR	4	
18	10/06/11 16:50	10061118.D	CAS CAN QC CXXI	AC01154/FC00217/AVG01820	KR	5	

29 lb

cont. next page

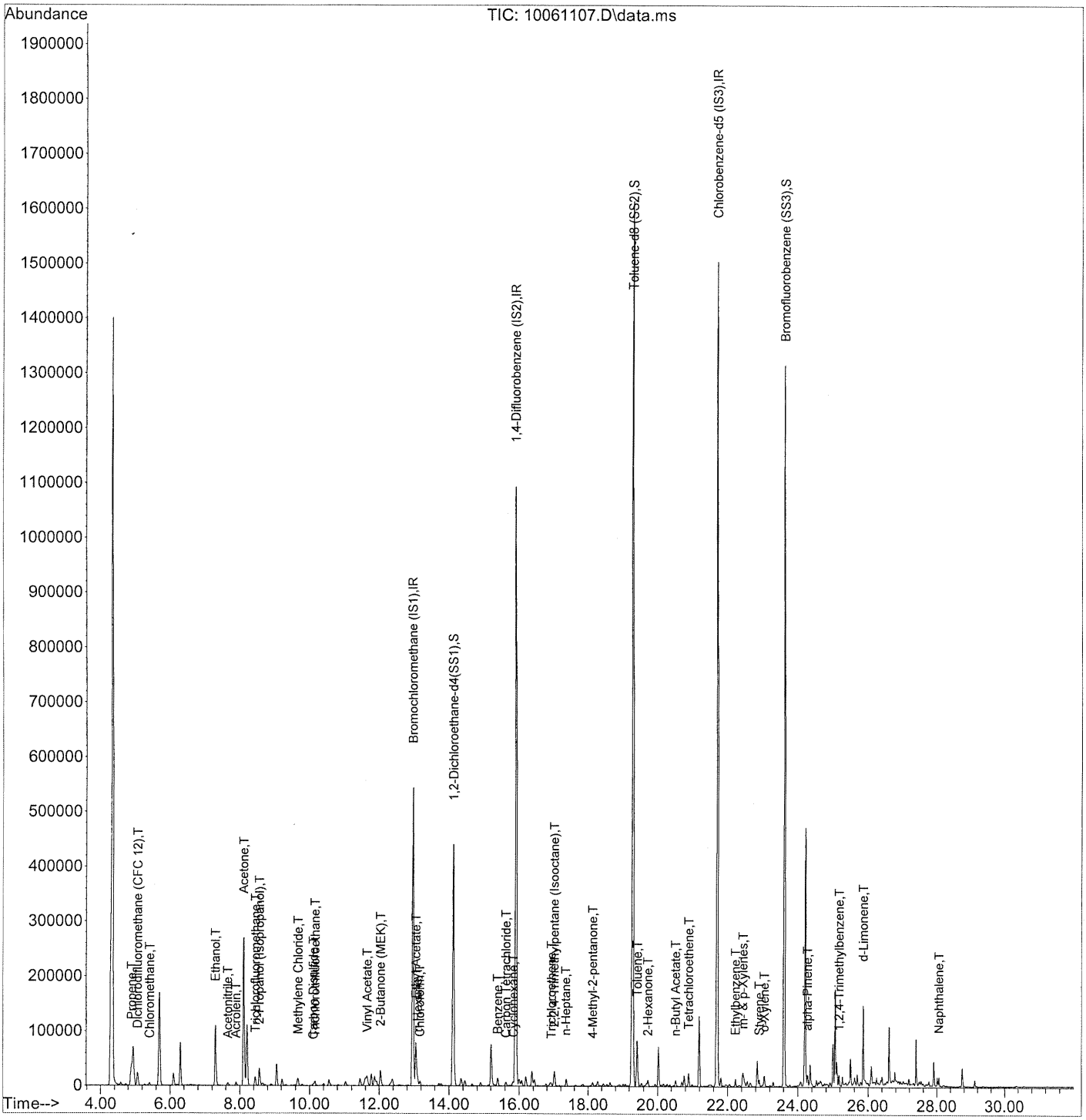
	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
19	10/06/11 17:22	10061119.D	P1103662-001 (1000mL)		KR	12	
20	10/06/11 17:54	10061120.D	P1103662-002 (1000mL)		KR	13	
21	10/06/11 18:27	10061121.D	P1103662-003 (1000mL)		KR	14	
22	10/06/11 18:59	10061122.D	P1103662-004 (1000mL)		KR	15	
23	10/06/11 19:31	10061123.D	P1103662-005 (1000mL)		KR	2	
24	10/06/11 20:03	10061124.D	P1103662-007 (1000mL)		KR	11	
25	10/06/11 20:35	10061125.D	P1103662-008 (1000mL)		KR	10	
26	10/06/11 21:06	10061126.D	P1103662-009 (1000mL)		KR	9	
27	10/06/11 21:36	10061127.D	500pg TO-15/SIM LCSD STD (125mL)	S25-09061101/S25-09231111	KR	16	*Pass*
28	10/06/11 22:08	10061128.D	CAS CAN QC CXXI	AC00389/FC00345/AVG01706	KR	6	
29	10/06/11 22:40	10061129.D	CAS CAN QC CXXI	AC00728/FC00063/AVG01680	KR	7	
30	10/06/11 23:09	10061130.D	P1103783-010 DIL (100mL)		KR	4	
31	10/07/11 6:12	10061131.D	Blank		KR	1	
32	10/07/11 6:44	10061132.D	P1103662-006 (1000mL)		KR	3	

KR 10/7/11

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 10:15:23 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 10:15:23 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

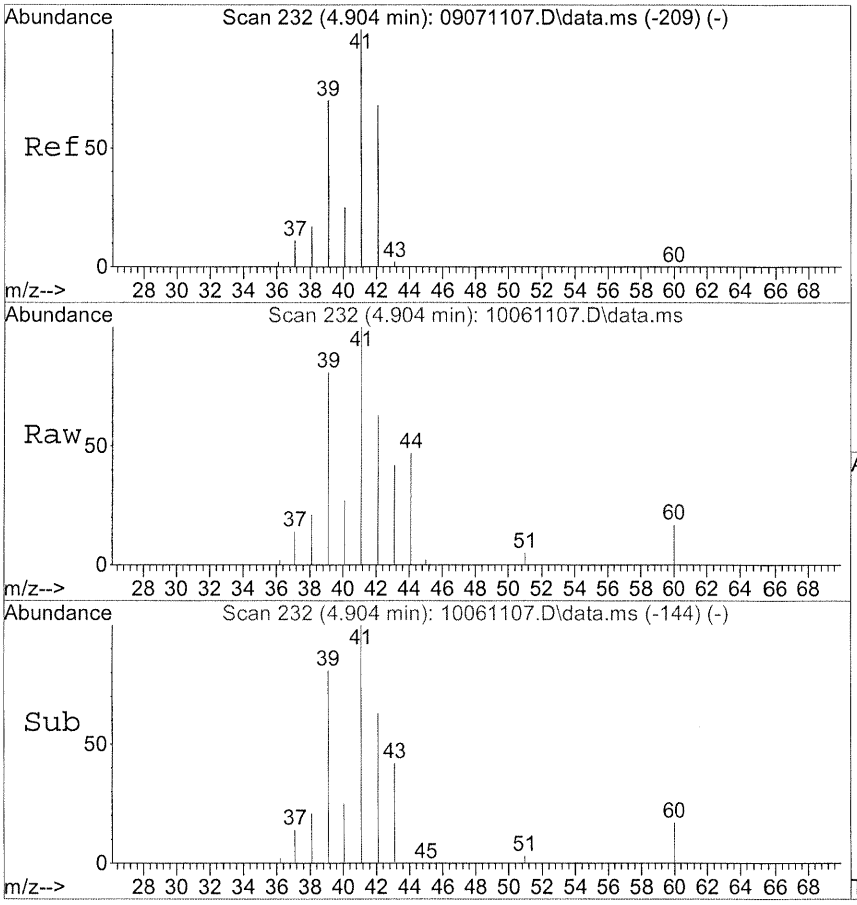
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	287477	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1295255	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	616855	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	428718	24.951	ng		-0.02
Spiked Amount 25.000			Recovery =	99.80%			
57) Toluene-d8 (SS2)	19.30	98	1432203	24.982	ng		-0.01
Spiked Amount 25.000			Recovery =	99.92%			
73) Bromofluorobenzene (SS3)	23.62	174	518489	25.635	ng		0.00
Spiked Amount 25.000			Recovery =	102.56%			
Target Compounds							Qvalue
2) Propene	4.90	42	18004m	0.782	ng		
3) Dichlorodifluoromethan...	5.07	85	38052	1.337	ng		97
4) Chloromethane	5.42	50	5181	0.217	ng		98
10) Ethanol	7.30	45	153835	11.561	ng		100
11) Acetonitrile	7.66	41	6191	0.200	ng	#	67
12) Acrolein	7.89	56	6611	0.657	ng		97
13) Acetone	8.11	58	139468m	10.954	ng		
14) Trichlorofluoromethane	8.45	101	18338	0.717	ng		100
15) 2-Propanol (Isopropanol)	8.56	45	53686	1.500	ng		93
19) Methylene Chloride	9.67	84	6943	0.439	ng		82
21) Trichlorotrifluoroethane	10.16	151	4072	0.306	ng		100
22) Carbon Disulfide	10.11	76	6191	0.113	ng		87
26) Vinyl Acetate	11.65	86	5110m	1.141	ng		
27) 2-Butanone (MEK)	12.05	72	11339	1.033	ng	#	41
30) Ethyl Acetate	13.05	61	16844	2.831	ng		81
31) n-Hexane	13.11	57	9300	0.303	ng	#	95
32) Chloroform	13.17	83	9736	0.420	ng		96
41) Benzene	15.40	78	18135	0.298	ng		98
42) Carbon Tetrachloride	15.63	117	5672	0.301	ng		98
43) Cyclohexane	15.84	84	4550	0.172	ng		85
47) Trichloroethene	16.93	130	2498	0.142	ng		94
49) 2,2,4-Trimethylpentane...	17.02	57	31323	0.417	ng		97
51) n-Heptane	17.36	71	3809	0.211	ng		95
53) 4-Methyl-2-pentanone	18.14	58	2131	0.138	ng	#	67
58) Toluene	19.42	91	76047	1.147	ng		98
59) 2-Hexanone	19.72	43	10571m	0.286	ng		
62) n-Butyl Acetate	20.52	43	9903	0.229	ng		95
64) Tetrachloroethene	20.90	166	10140	0.489	ng		98
66) Ethylbenzene	22.23	91	11787	0.162	ng		99
67) m- & p-Xylenes	22.44	91	24581	0.426	ng		91

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 10:15:23 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Styrene	22.91	104	7577	0.168	ng	94
70) o-Xylene	23.05	91	9492	0.156	ng	97
75) alpha-Pinene	24.28	93	9850	0.251	ng	96
82) 1,2,4-Trimethylbenzene	25.17	105	10768	0.168	ng	99
91) d-Limonene	25.86	68	39130	1.538	ng	98
95) Naphthalene	28.07	128	13789	0.146	ng	98

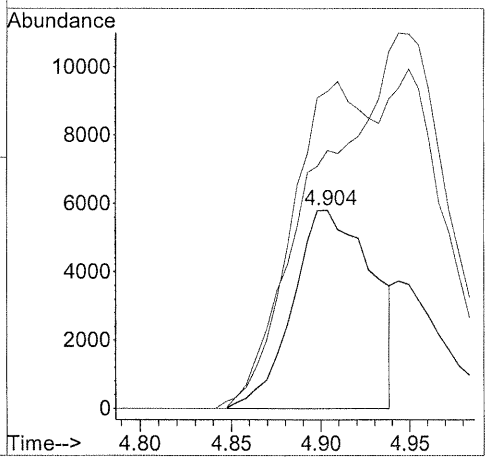
(#) = qualifier out of range (m) = manual integration (+) = signals summed

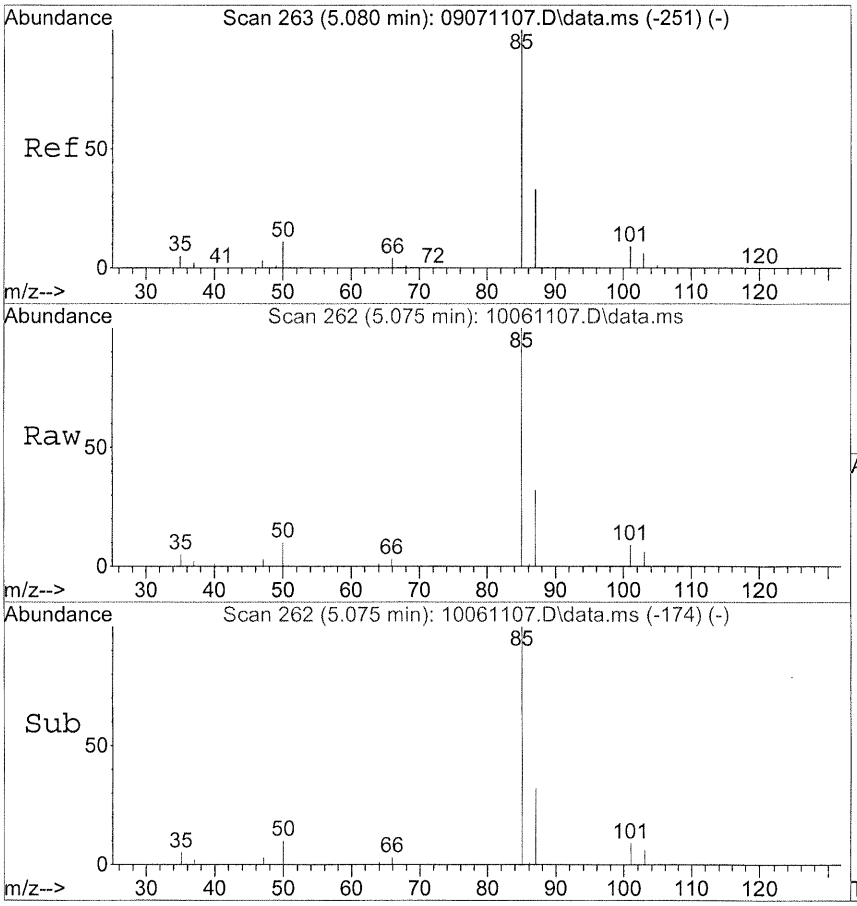


#2
Propene
Concen: 0.78 ng m
RT: 4.90 min Scan# 232
Delta R.T. 0.000 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 42 Resp: 18004

Ion	Ratio	Lower	Upper
42	100		
39	0.0	88.8	128.8#
41	0.0	126.1	166.1#

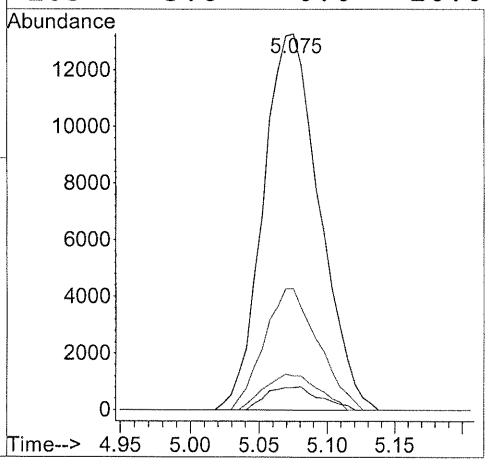


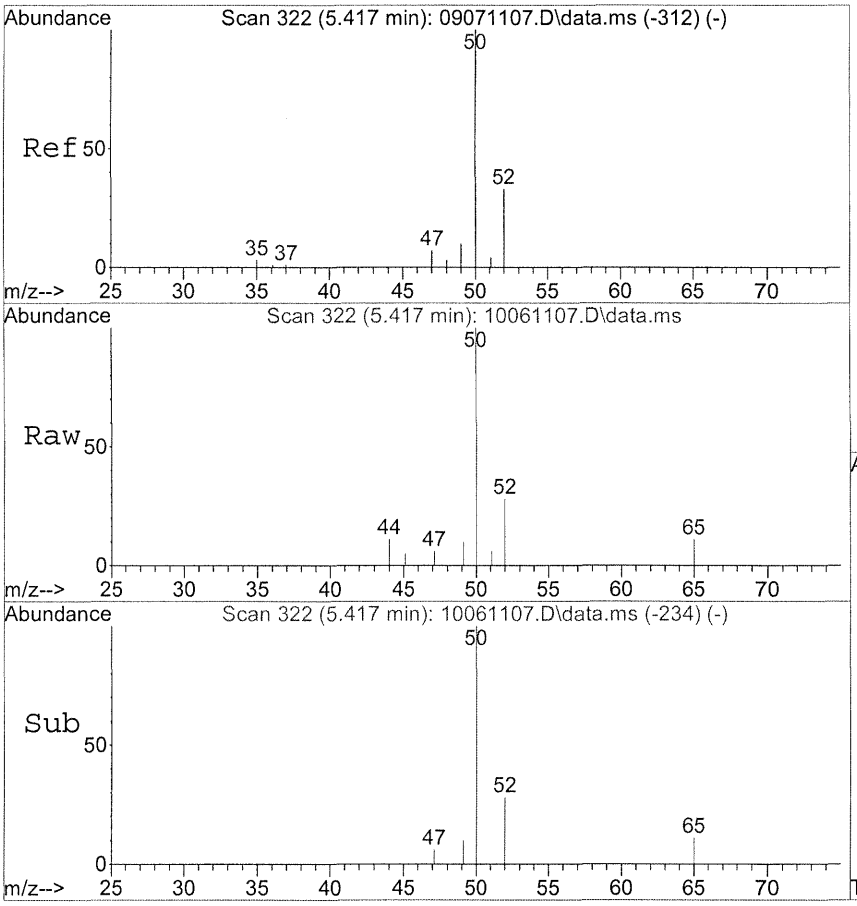


#3
Dichlorodifluoromethane (CFC
Concen: 1.34 ng
RT: 5.07 min Scan# 262
Delta R.T. 0.000 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 85 Resp: 38052

Ion	Ratio	Lower	Upper
85	100		
87	30.9	13.0	53.0
101	9.1	0.0	29.1
103	5.8	0.0	26.0

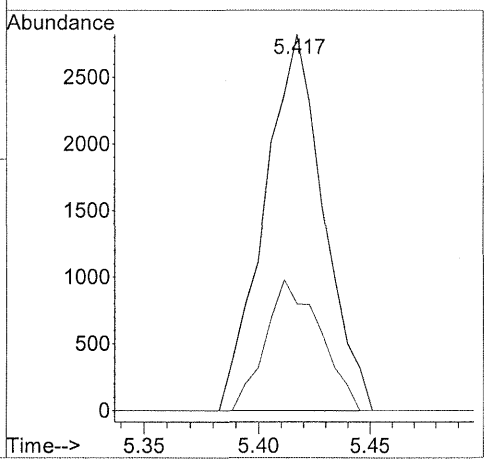


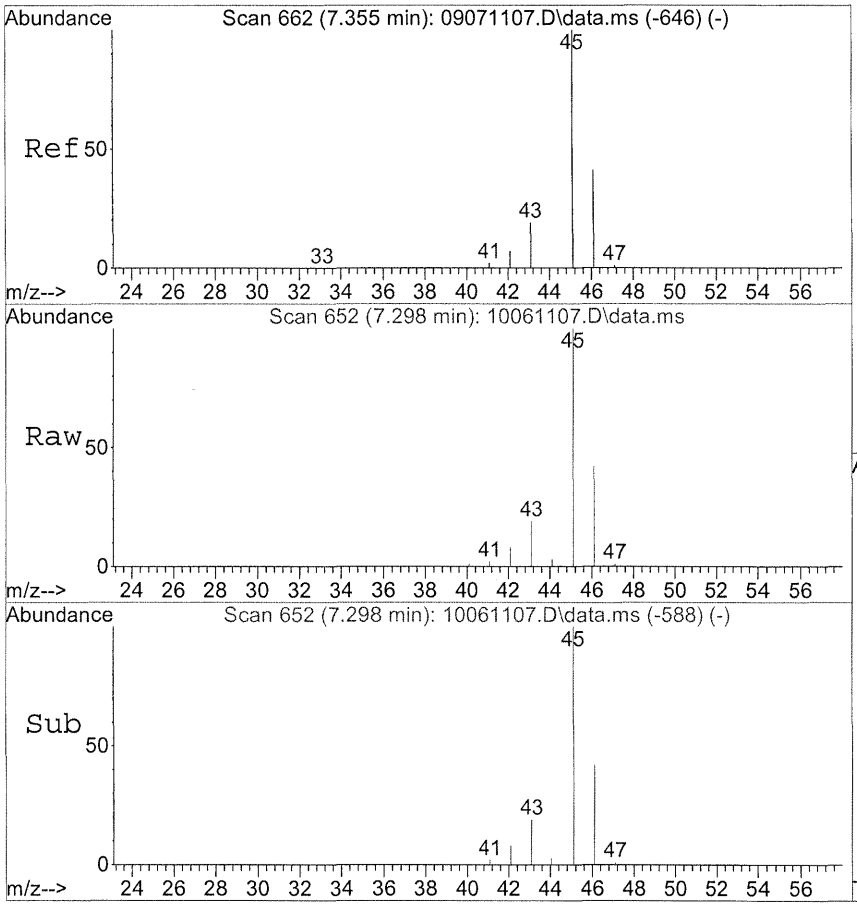


#4
Chloromethane
Concen: 0.22 ng
RT: 5.42 min Scan# 322
Delta R.T. 0.000 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 50 Resp: 5181

Ion	Ratio	Lower	Upper
50	100		
52	32.1	13.1	53.1

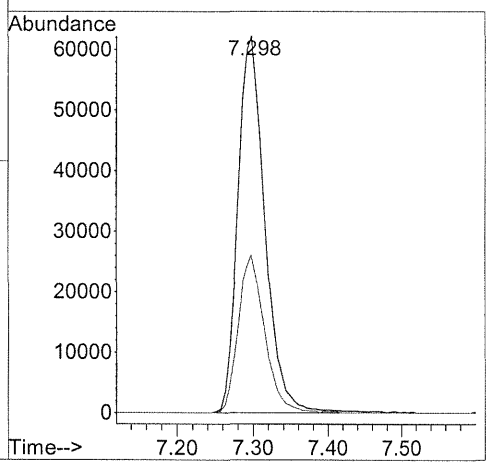


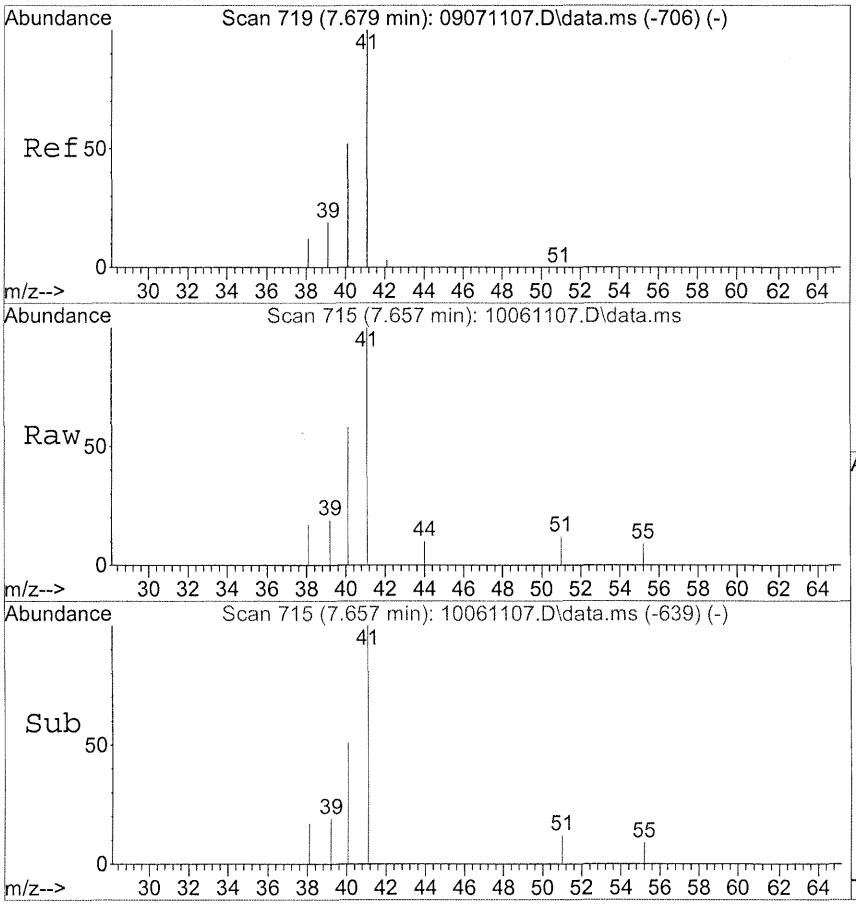


#10
Ethanol
Concen: 11.56 ng
RT: 7.30 min Scan# 652
Delta R.T. -0.137 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 45 Resp: 153835

Ion	Ratio	Lower	Upper
45	100		
46	40.6	20.7	60.7

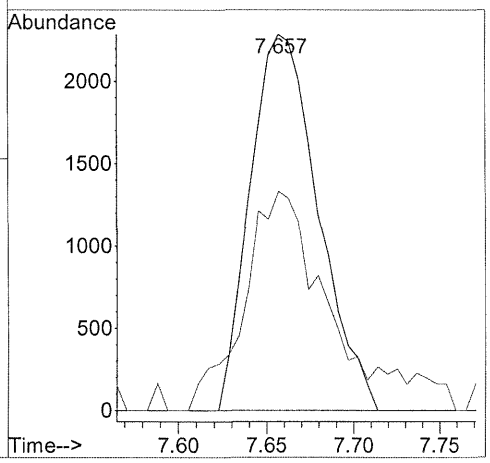


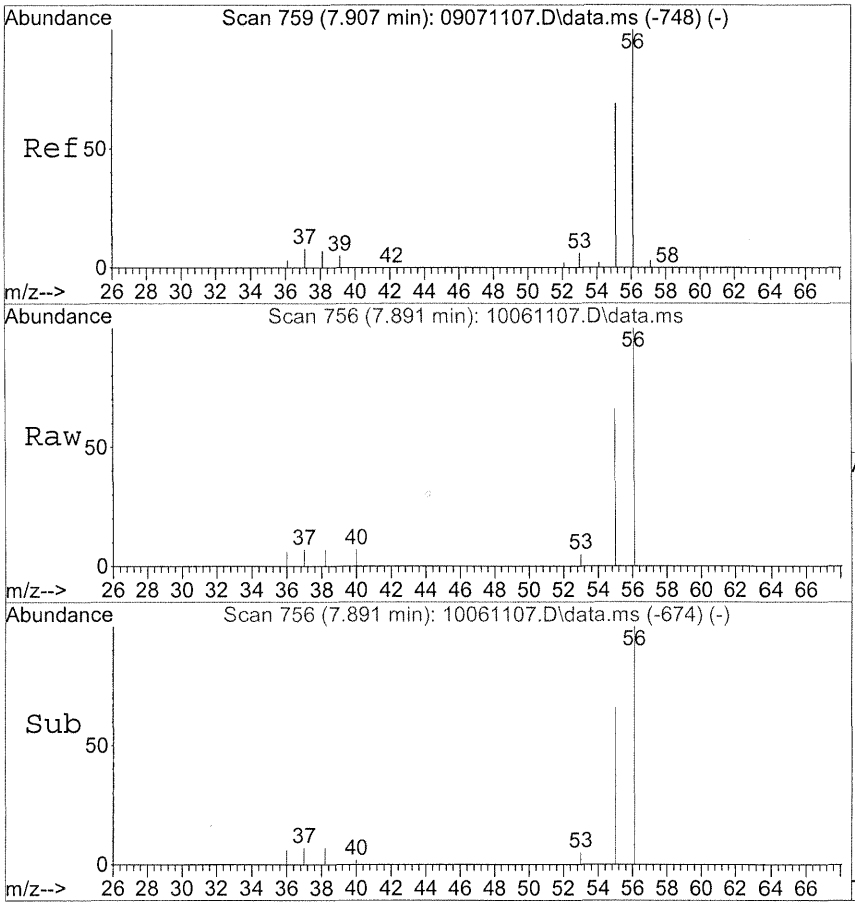


#11
Acetonitrile
Concen: 0.20 ng
RT: 7.66 min Scan# 715
Delta R.T. -0.068 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 41 Resp: 6191

Ion	Ratio	Lower	Upper
41	100		
40	74.6	31.5	71.5#

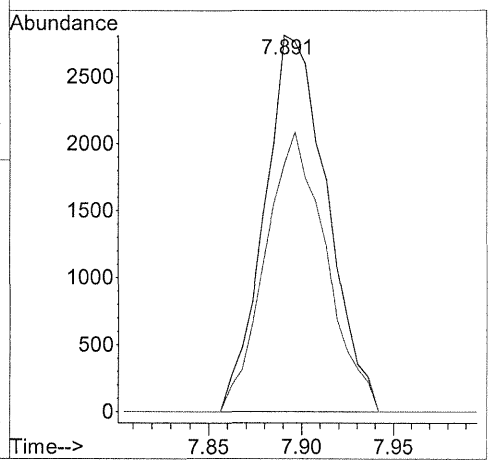


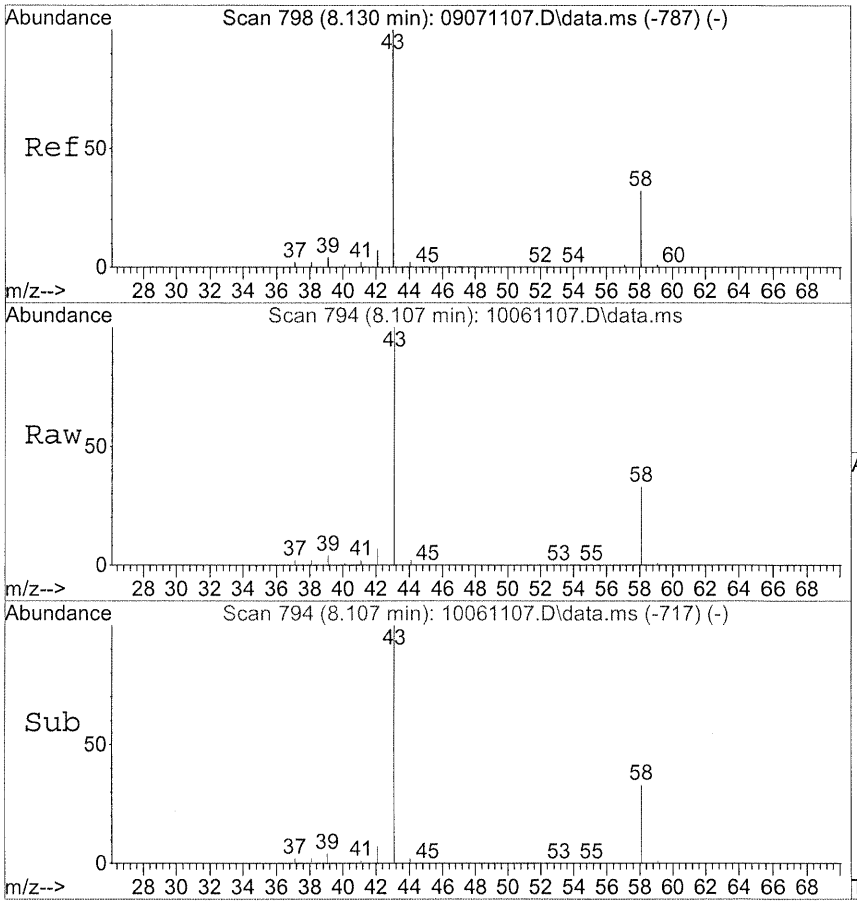


#12
Acrolein
Concen: 0.66 ng
RT: 7.89 min Scan# 756
Delta R.T. -0.034 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 56 Resp: 6611

Ion	Ratio	Lower	Upper
56	100		
55	72.3	50.1	90.1

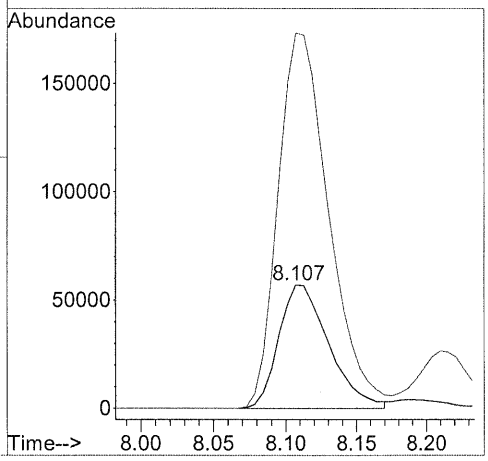


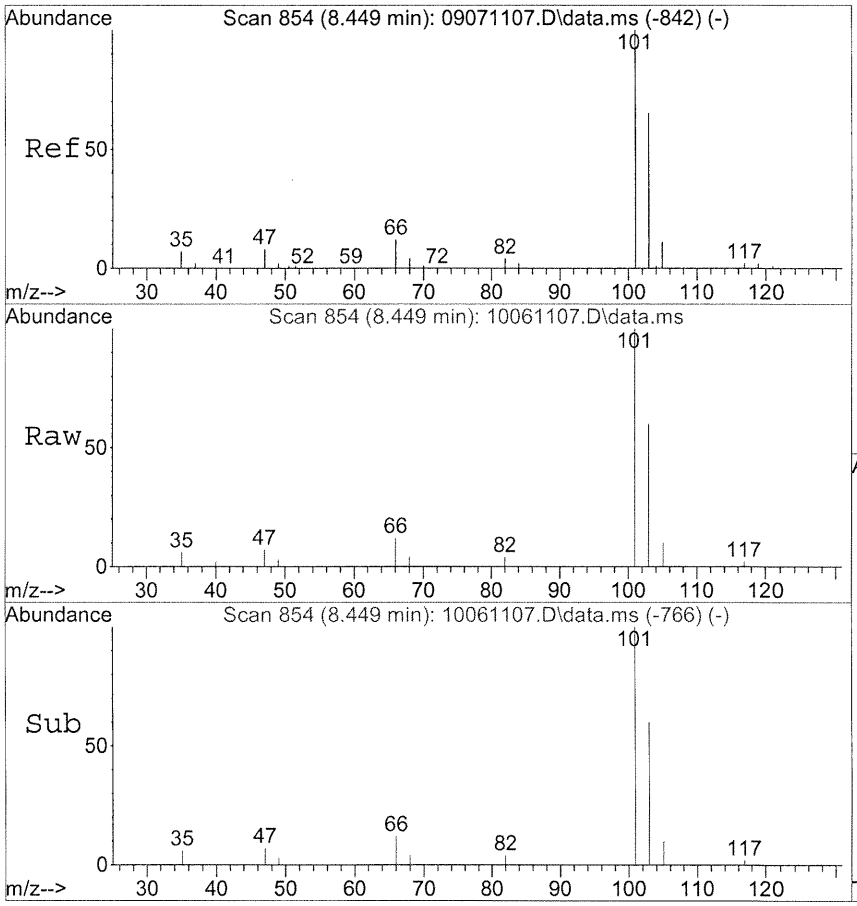


#13
Acetone
Concen: 10.95 ng m
RT: 8.11 min Scan# 794
Delta R.T. -0.063 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 58 Resp: 139468

Ion	Ratio	Lower	Upper
58	100		
43	0.0	283.8	343.8#

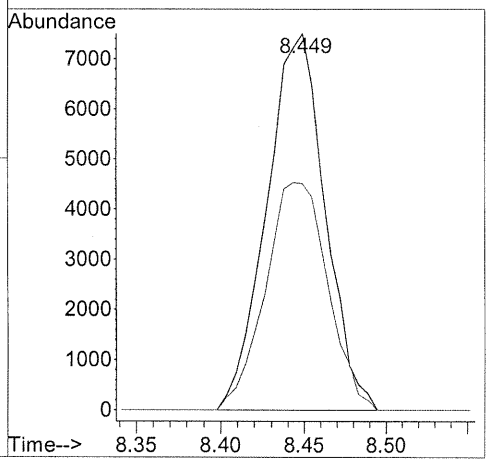


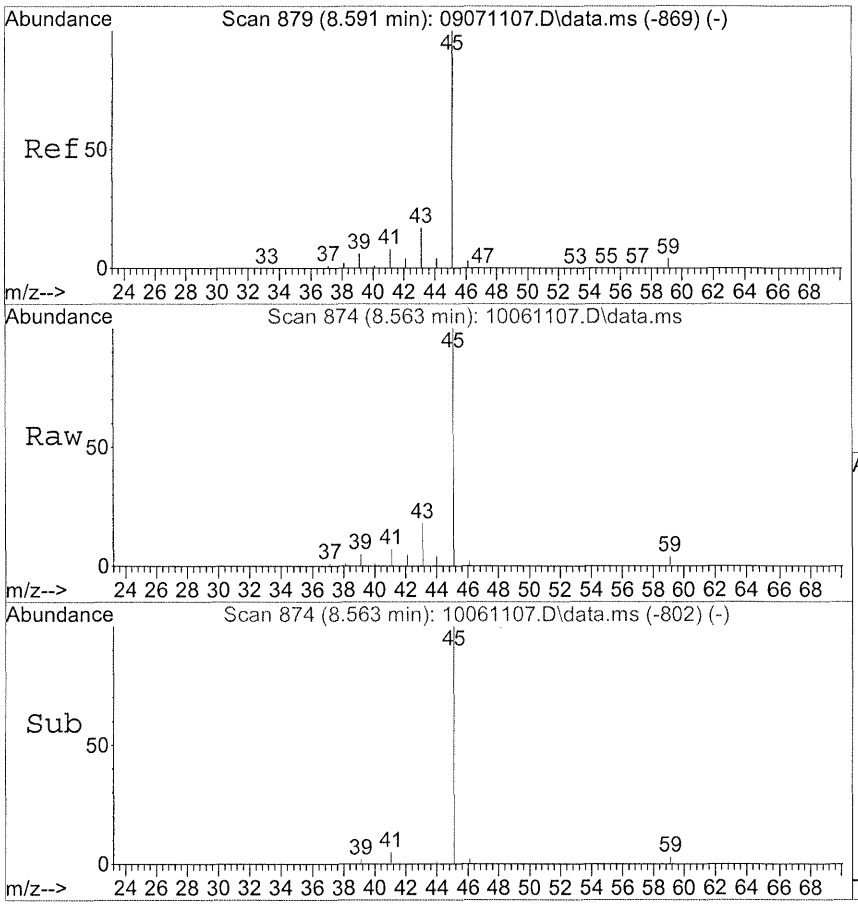


#14
Trichlorofluoromethane
Concen: 0.72 ng
RT: 8.45 min Scan# 854
Delta R.T. 0.000 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion:101 Resp: 18338

Ion	Ratio	Lower	Upper
101	100		
103	64.5	44.4	84.4

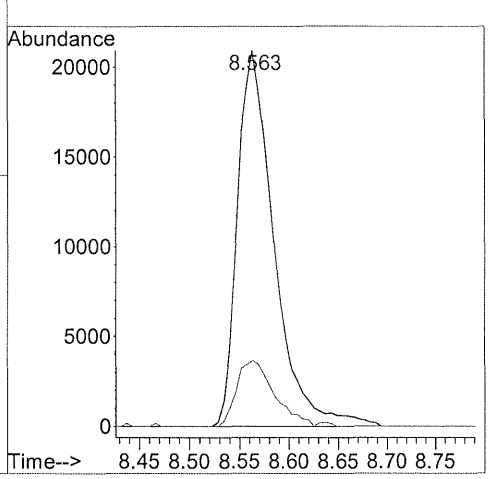


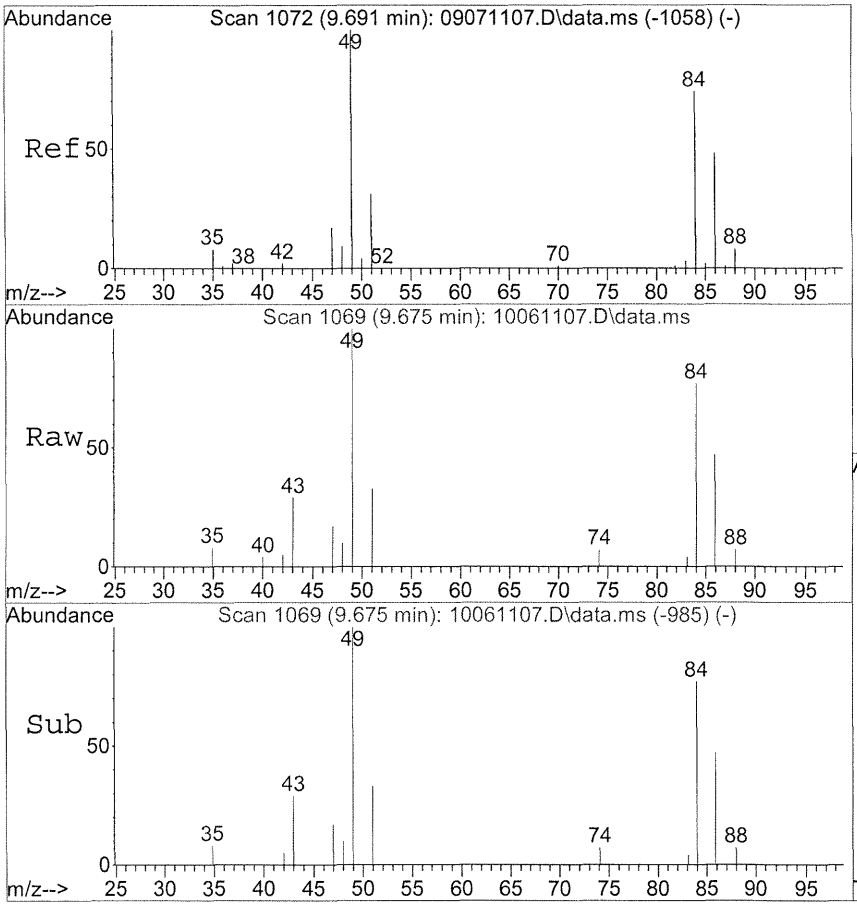


#15
2-Propanol (Isopropanol)
Concen: 1.50 ng
RT: 8.56 min Scan# 874
Delta R.T. -0.091 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 45 Resp: 53686

Ion	Ratio	Lower	Upper
45	100		
43	17.9	1.4	41.4

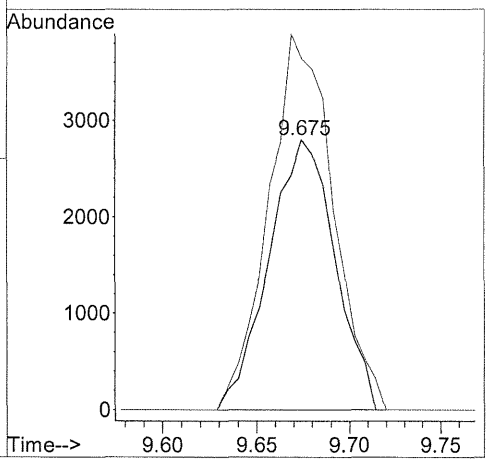


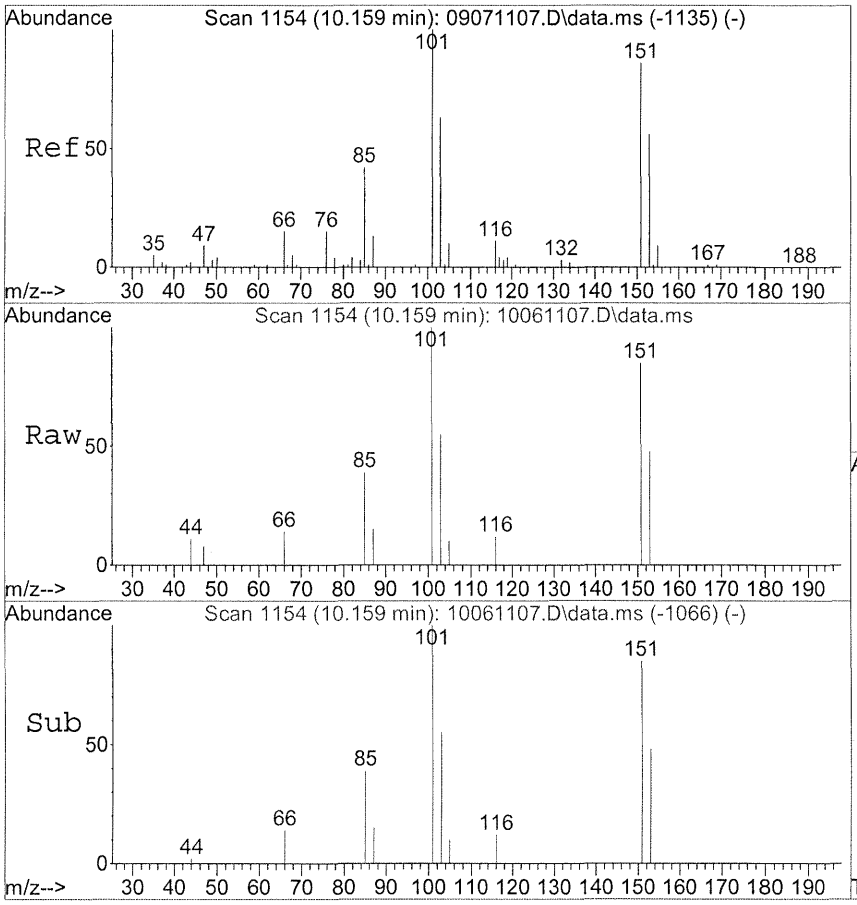


#19
Methylene Chloride
Concen: 0.44 ng
RT: 9.67 min Scan# 1069
Delta R.T. -0.022 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 84 Resp: 6943

Ion	Ratio	Lower	Upper
84	100		
49	135.3	90.4	140.4

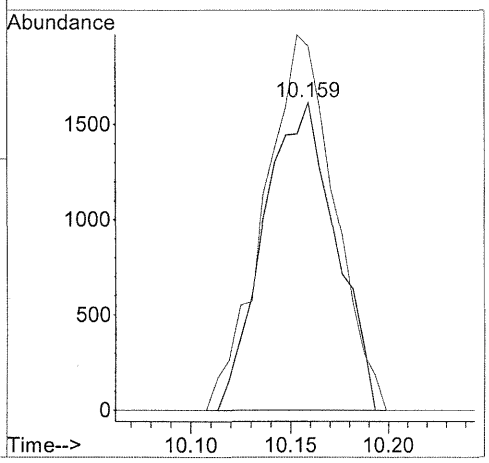


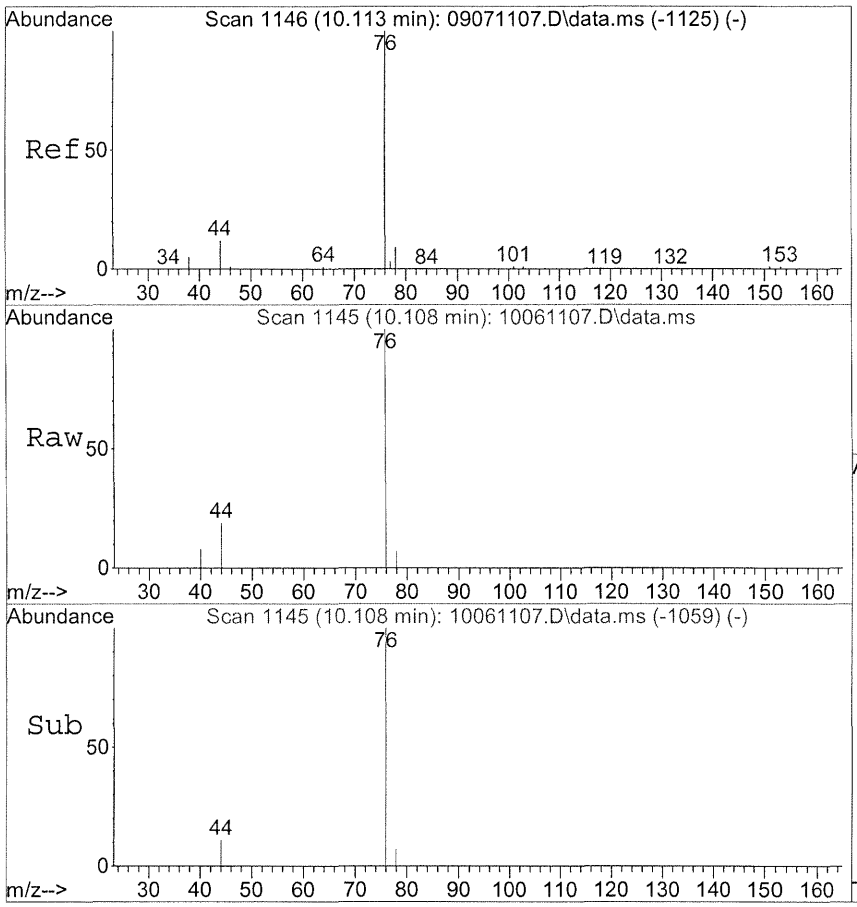


#21
Trichlorotrifluoroethane
Concen: 0.31 ng
RT: 10.16 min Scan# 1154
Delta R.T. 0.000 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion:151 Resp: 4072

Ion	Ratio	Lower	Upper
151	100		
101	119.6	99.7	139.7

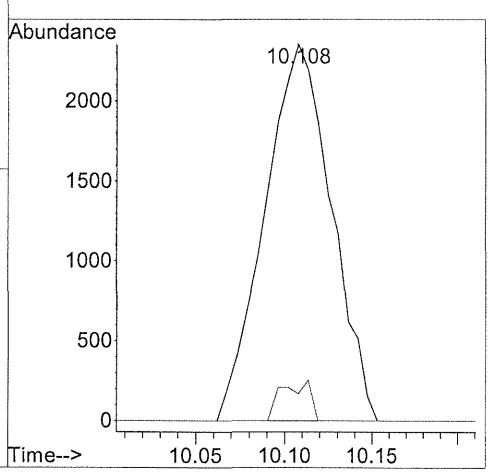


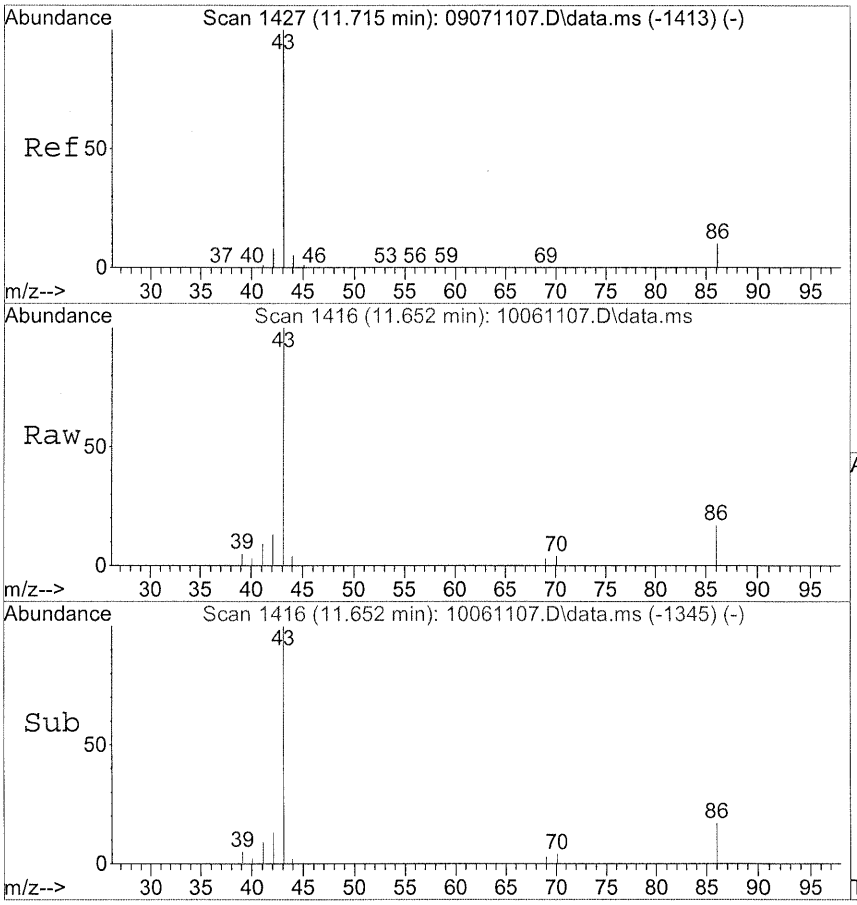


#22
Carbon Disulfide
Concen: 0.11 ng
RT: 10.11 min Scan# 1145
Delta R.T. -0.011 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 76 Resp: 6191

Ion	Ratio	Lower	Upper
76	100		
78	4.6	0.0	29.4

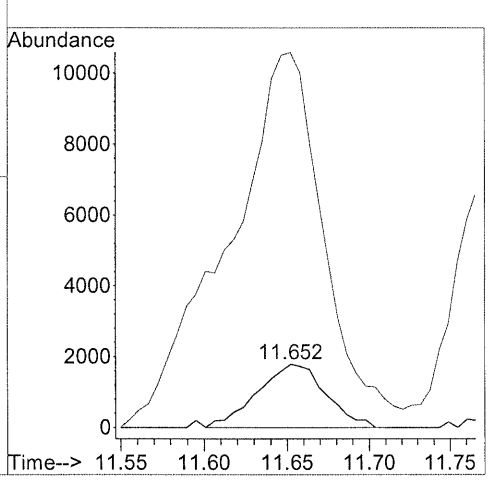


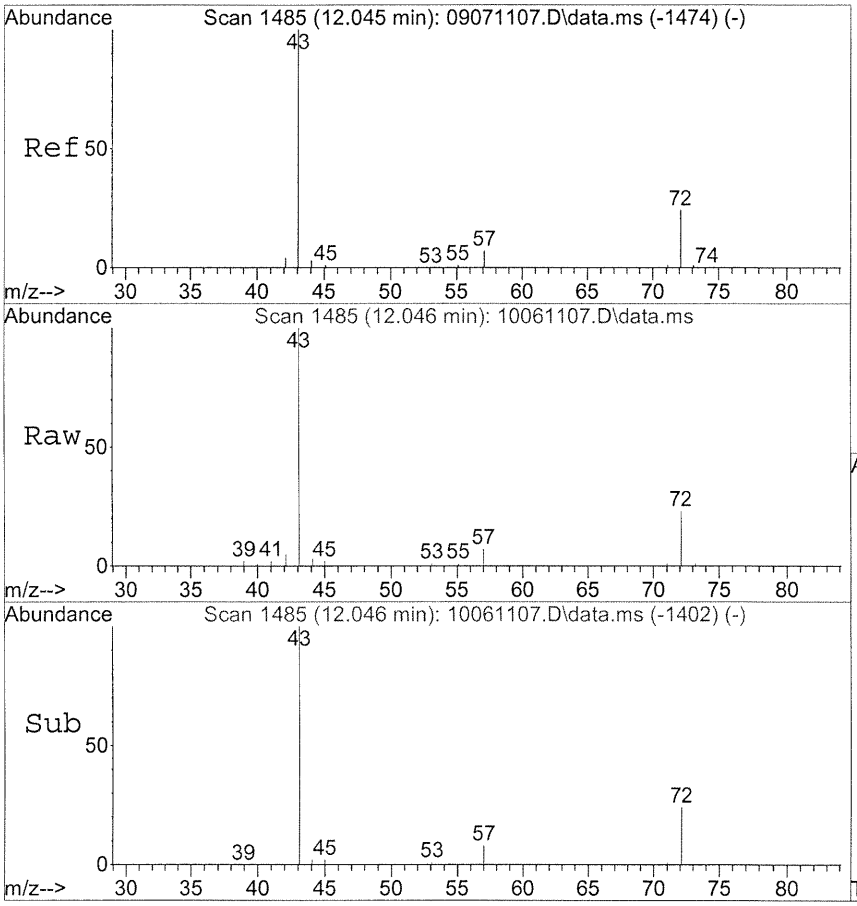


#26
Vinyl Acetate
Concen: 1.14 ng m
RT: 11.65 min Scan# 1416
Delta R.T. -0.097 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 86 Resp: 5110

Ion	Ratio	Lower	Upper
86	100		
43	387.1	825.7	865.7#

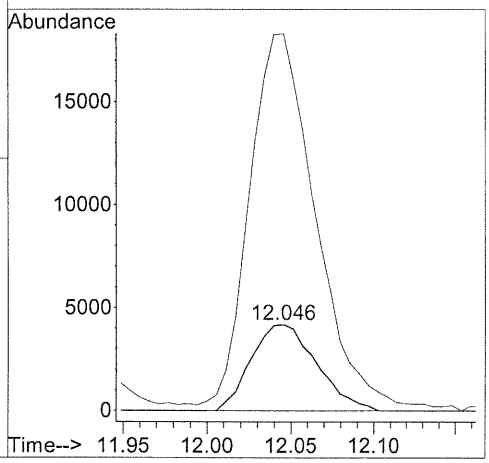


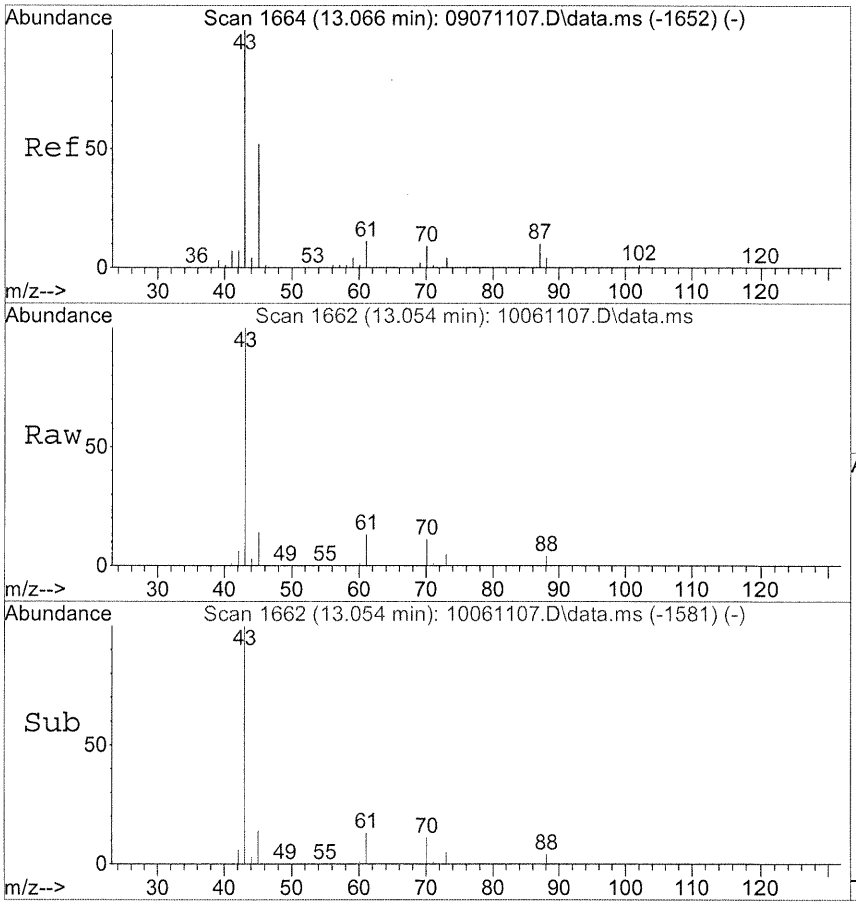


#27
2-Butanone (MEK)
Concen: 1.03 ng
RT: 12.05 min Scan# 1485
Delta R.T. -0.028 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 72 Resp: 11339

Ion	Ratio	Lower	Upper
72	100		
43	447.6	304.7	344.7#

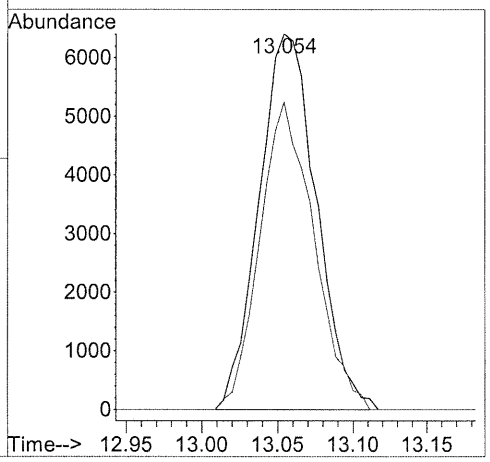


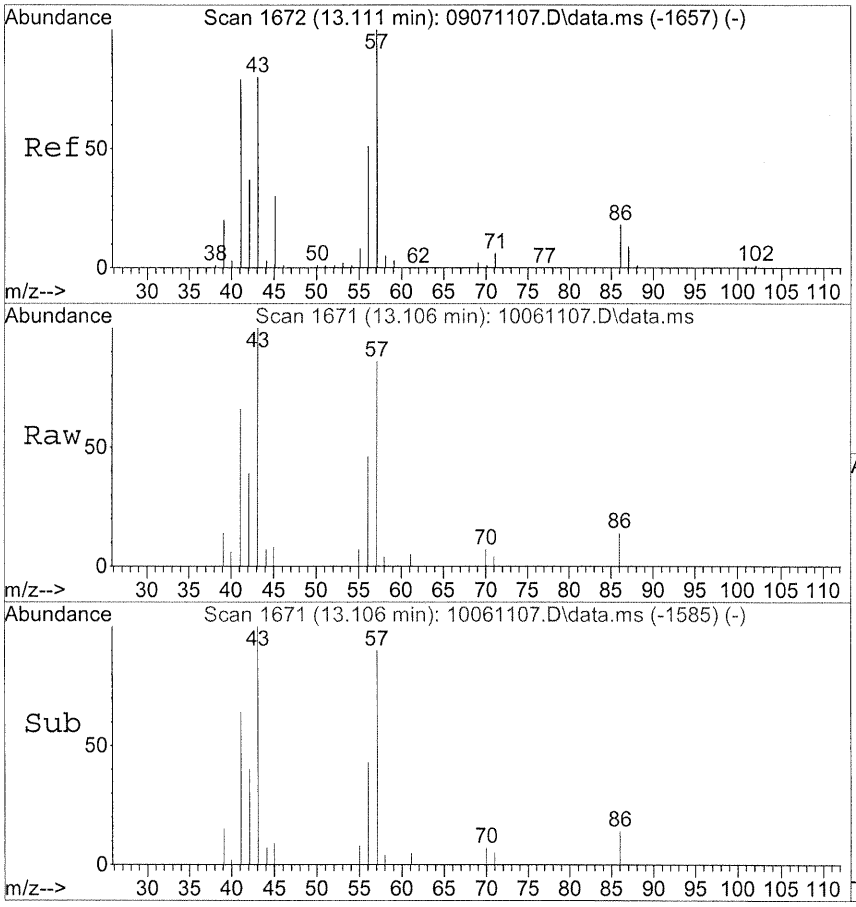


#30
Ethyl Acetate
Concen: 2.83 ng
RT: 13.05 min Scan# 1662
Delta R.T. -0.040 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 61 Resp: 16844

Ion	Ratio	Lower	Upper
61	100		
70	77.2	75.3	115.3

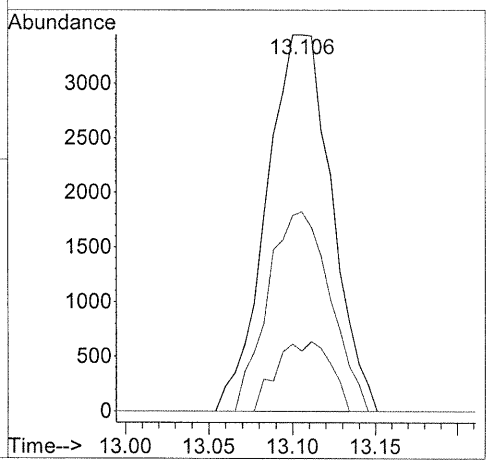


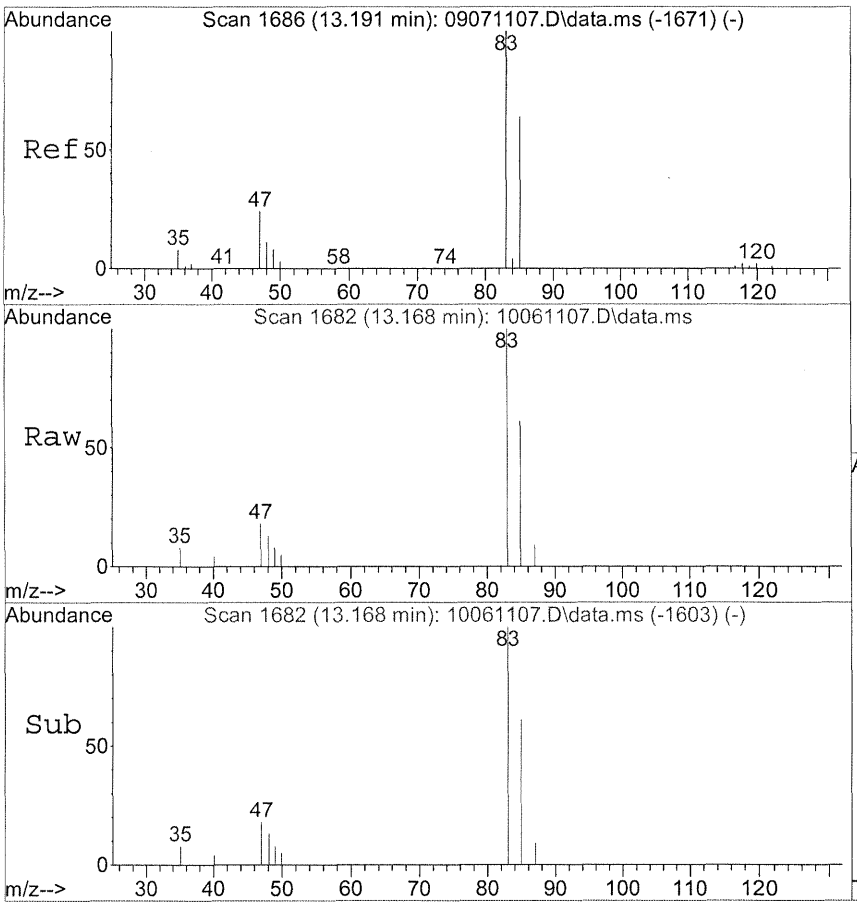


#31
n-Hexane
Concen: 0.30 ng
RT: 13.11 min Scan# 1671
Delta R.T. -0.011 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 57 Resp: 9300

Ion	Ratio	Lower	Upper
57	100		
56	50.9	41.8	62.8
86	15.4	17.0	25.4#

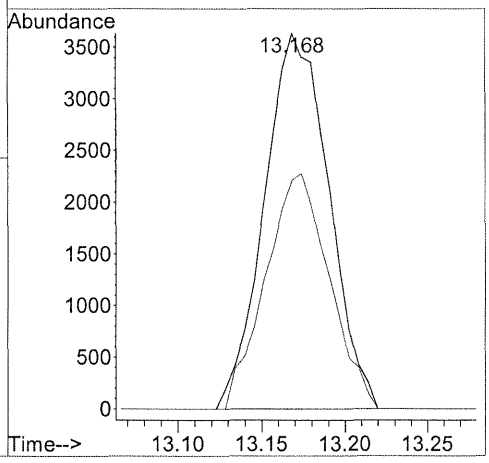


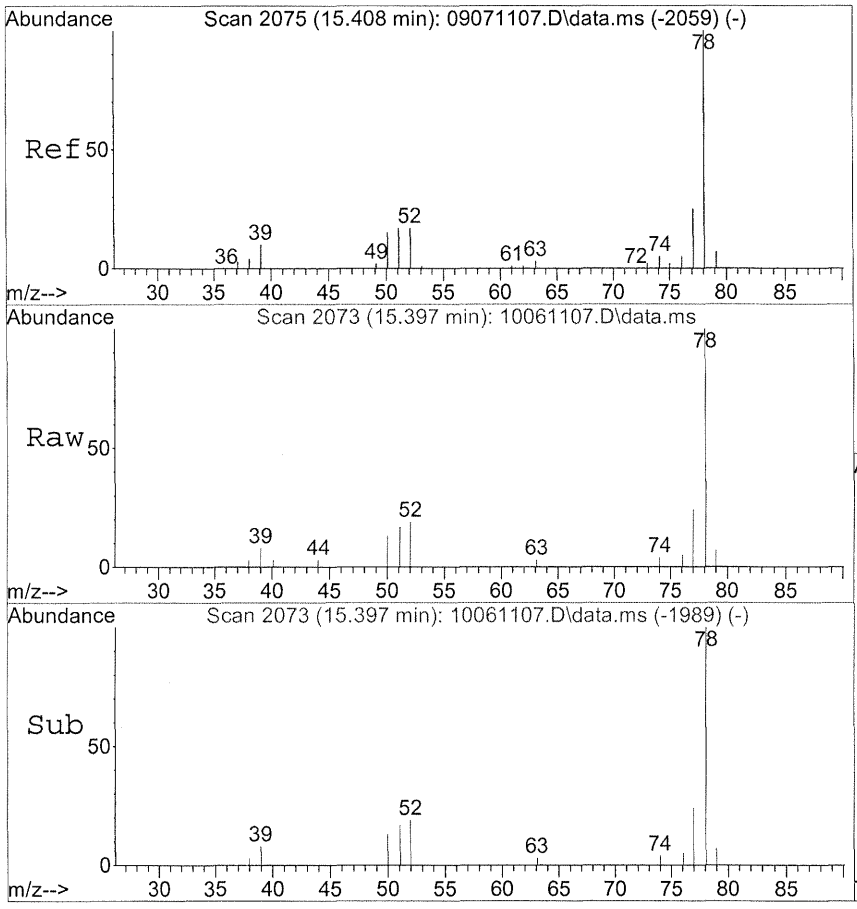


#32
Chloroform
Concen: 0.42 ng
RT: 13.17 min Scan# 1682
Delta R.T. -0.051 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 83 Resp: 9736

Ion	Ratio	Lower	Upper
83	100		
85	61.9	45.3	85.3

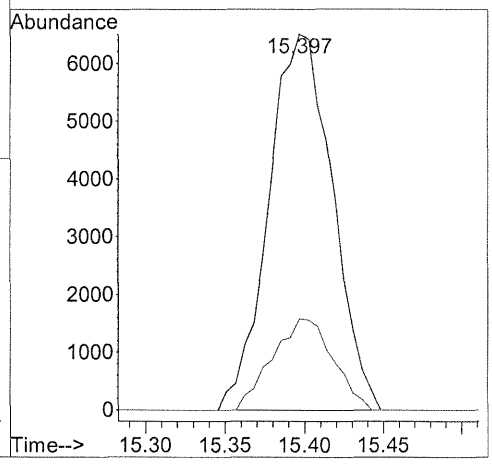


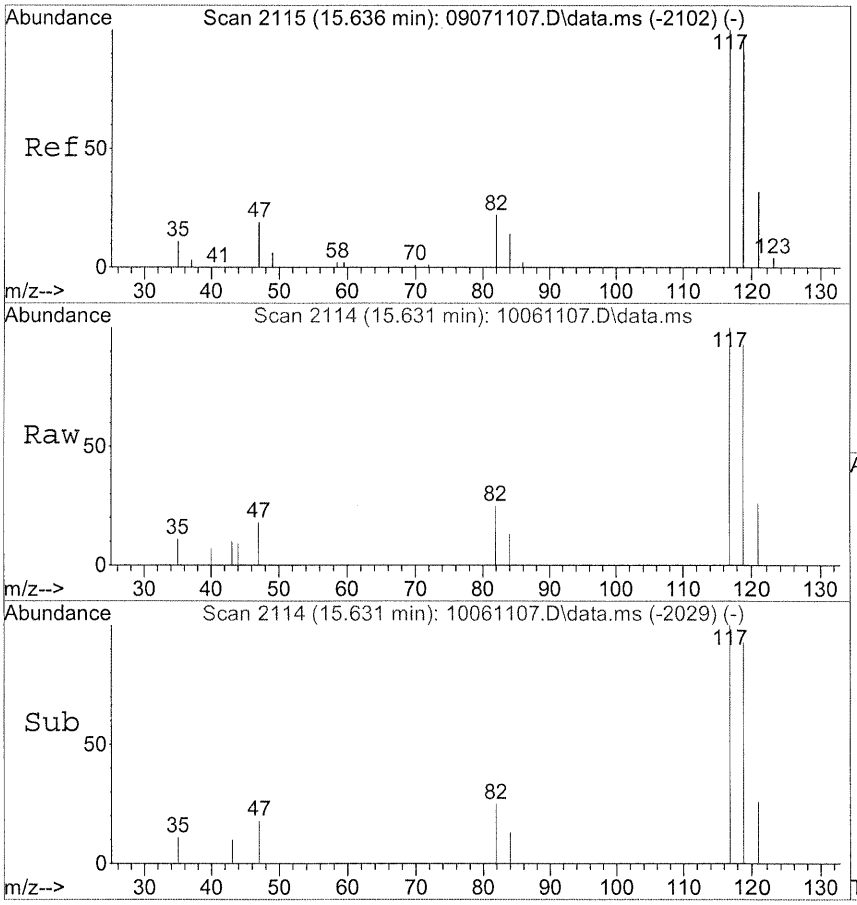


#41
Benzene
Concen: 0.30 ng
RT: 15.40 min Scan# 2073
Delta R.T. -0.023 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 78 Resp: 18135

Ion	Ratio	Lower	Upper
78	100		
77	23.0	4.0	44.0

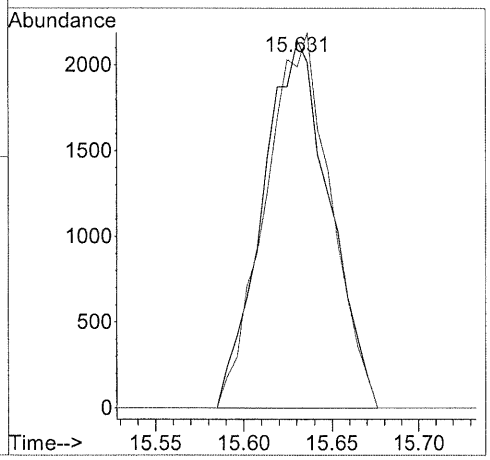


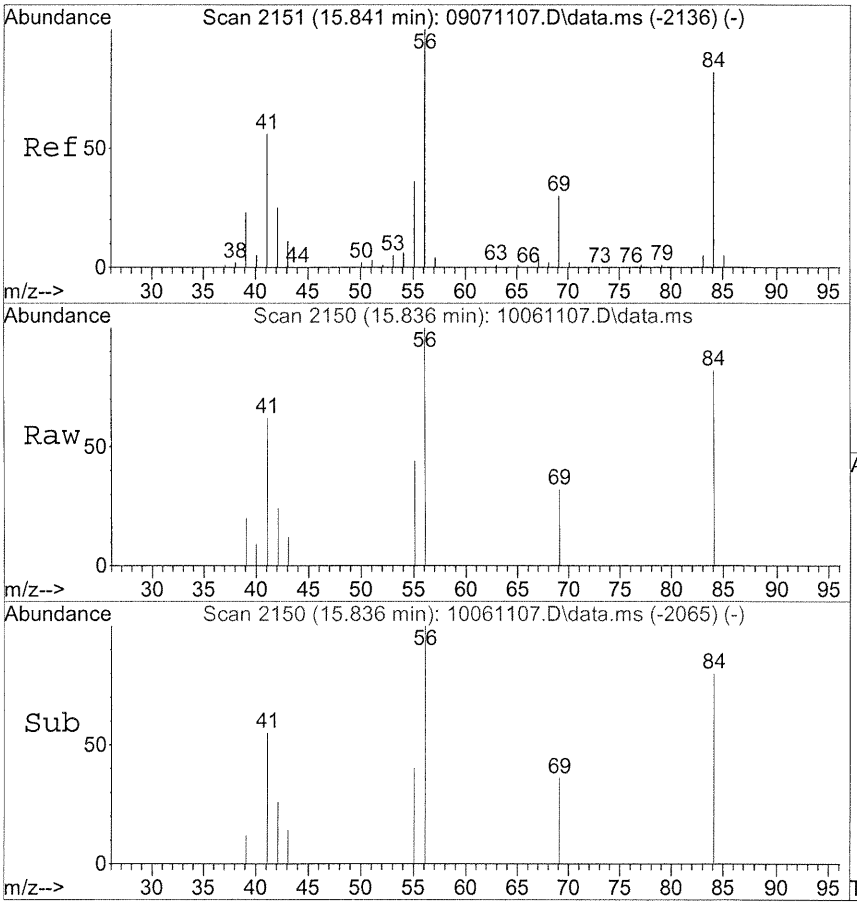


#42
Carbon Tetrachloride
Concen: 0.30 ng
RT: 15.63 min Scan# 2114
Delta R.T. -0.017 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion:117 Resp: 5672

Ion	Ratio	Lower	Upper
117	100		
119	98.9	77.0	117.0

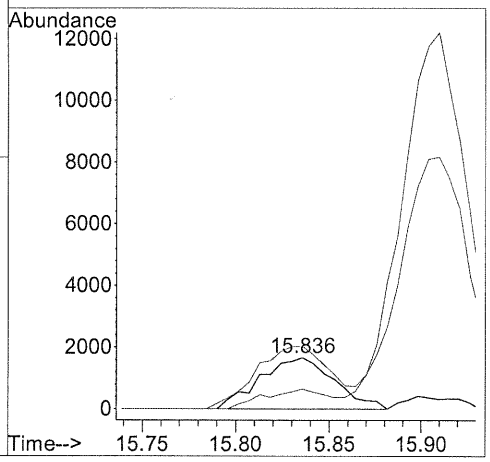


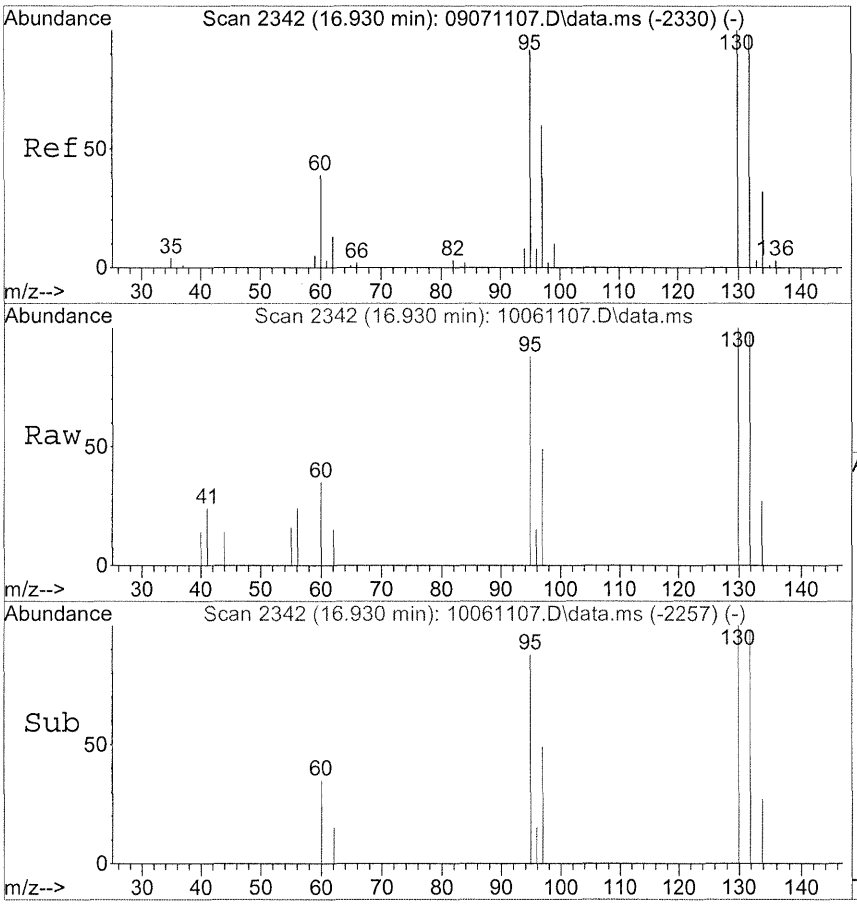


#43
Cyclohexane
Concen: 0.17 ng
RT: 15.84 min Scan# 2150
Delta R.T. -0.017 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 84 Resp: 4550

Ion	Ratio	Lower	Upper
84	100		
69	31.8	16.9	56.9
56	125.0	87.7	127.7

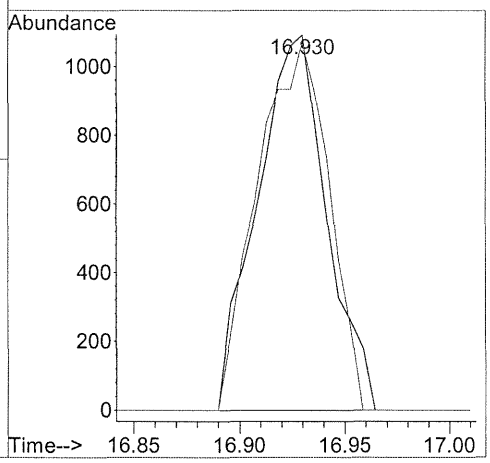


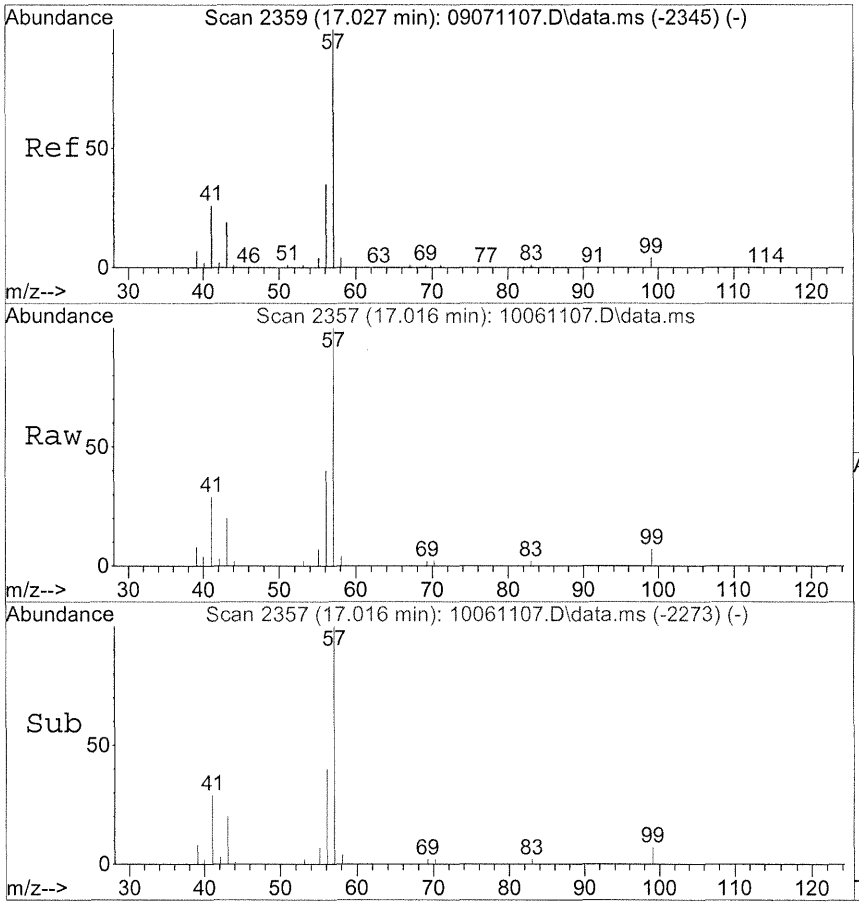


#47
Trichloroethene
Concen: 0.14 ng
RT: 16.93 min Scan# 2342
Delta R.T. -0.017 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion:130 Resp: 2498

Ion	Ratio	Lower	Upper
130	100		
132	101.2	75.8	115.8

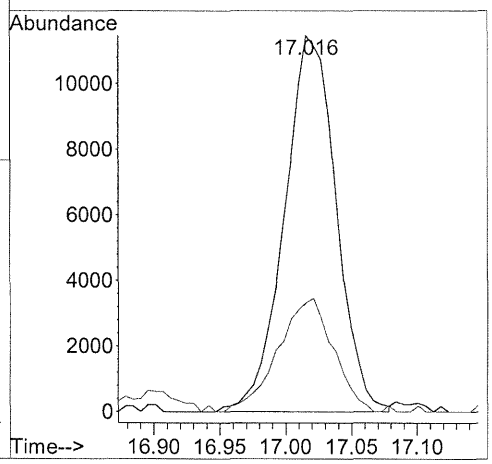


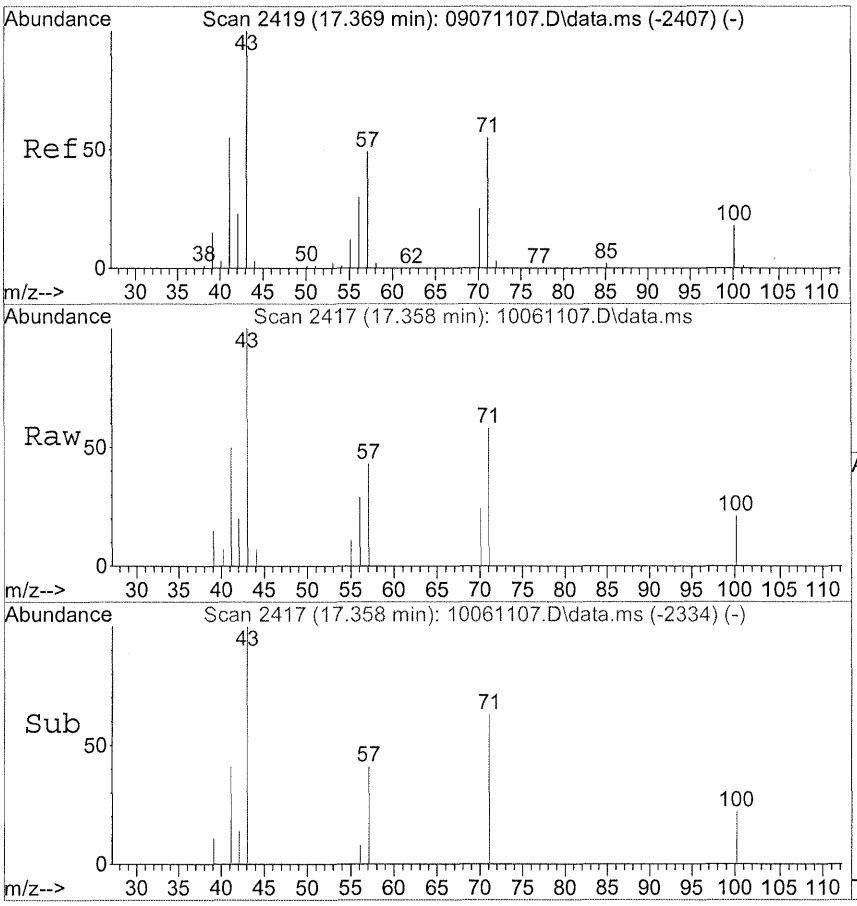


#49
2,2,4-Trimethylpentane (Isooc
Concen: 0.42 ng
RT: 17.02 min Scan# 2357
Delta R.T. -0.023 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 57 Resp: 31323

Ion	Ratio	Lower	Upper
57	100		
41	32.0	10.2	50.2

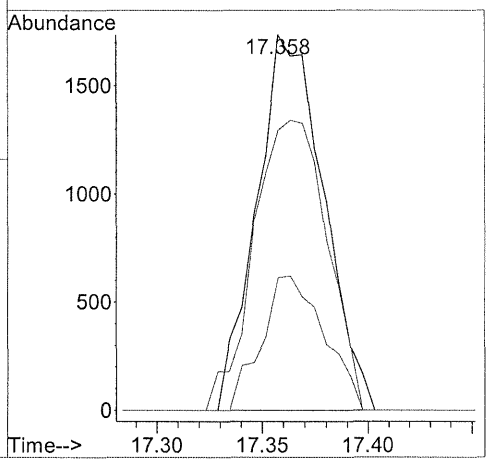


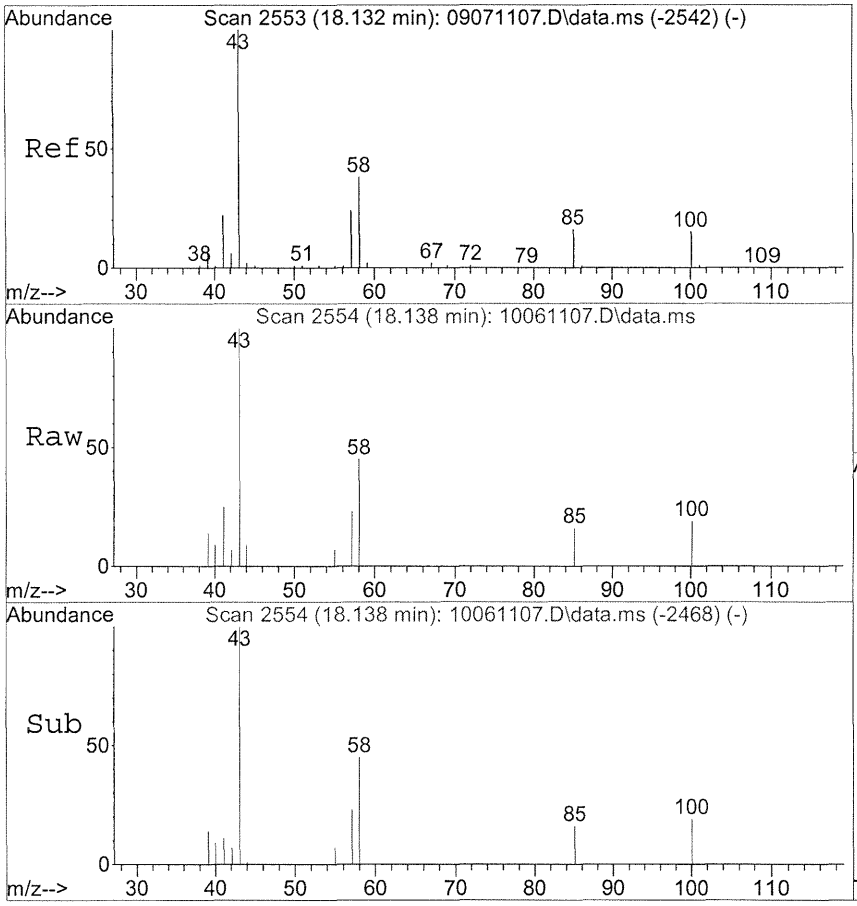


#51
n-Heptane
Concen: 0.21 ng
RT: 17.36 min Scan# 2417
Delta R.T. -0.028 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 71 Resp: 3809

Ion	Ratio	Lower	Upper
71	100		
57	84.7	59.7	99.7
100	33.4	15.2	55.2

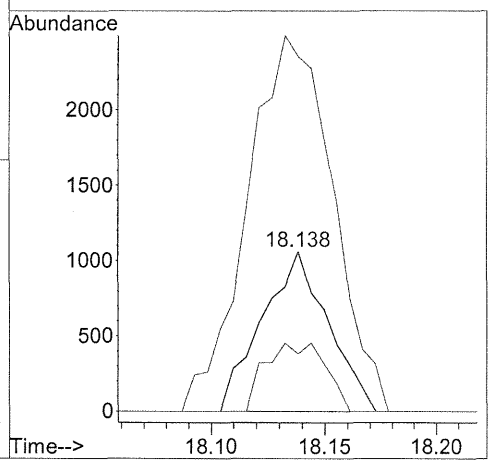


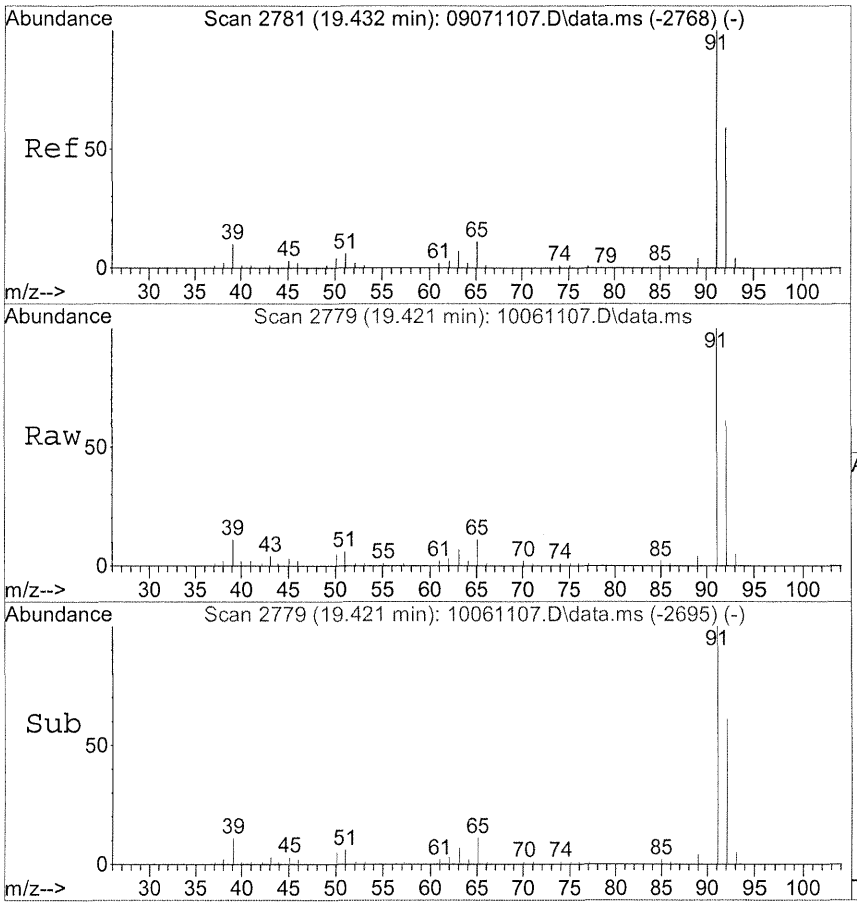


#53
4-Methyl-2-pentanone
Concen: 0.14 ng
RT: 18.14 min Scan# 2554
Delta R.T. -0.011 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 58 Resp: 2131

Ion	Ratio	Lower	Upper
58	100		
43	304.8	195.7	293.5#
85	38.9	43.7	65.5#

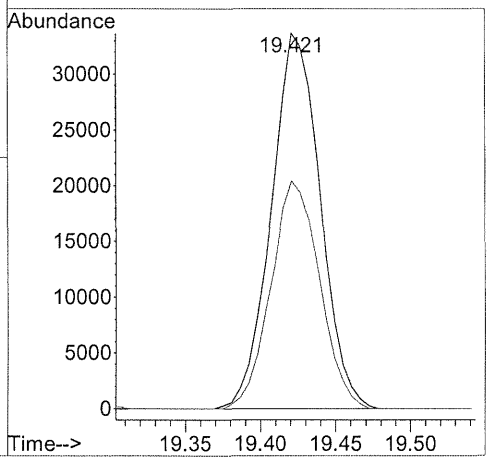


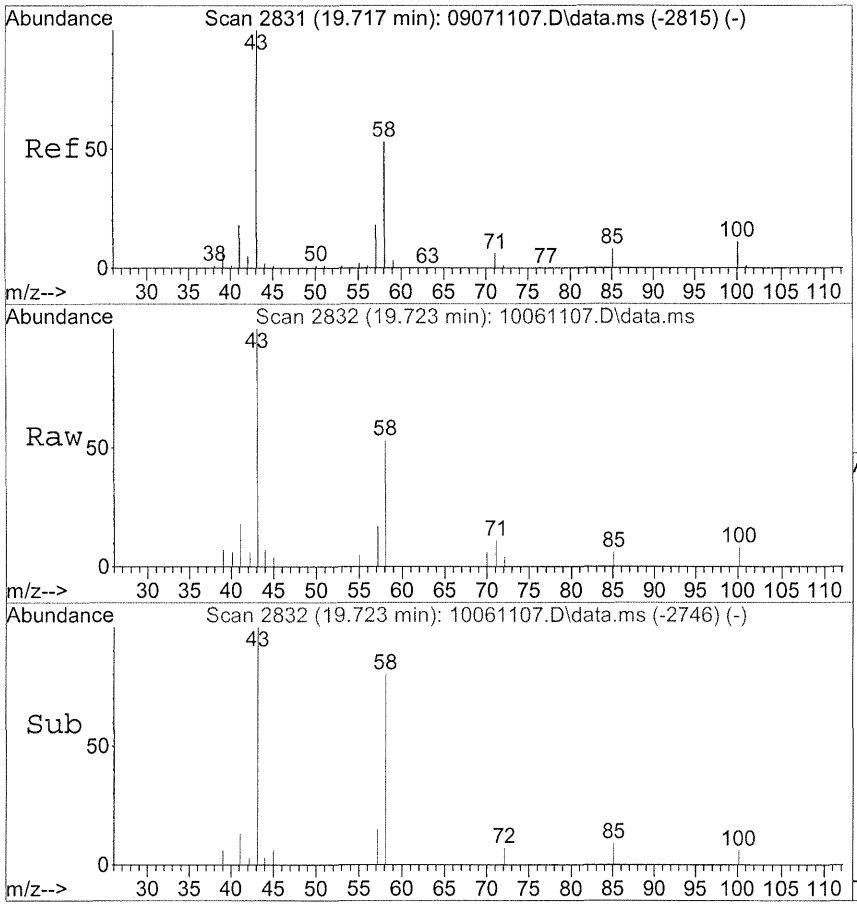


#58
Toluene
Concen: 1.15 ng
RT: 19.42 min Scan# 2779
Delta R.T. -0.023 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 91 Resp: 76047

Ion	Ratio	Lower	Upper
91	100		
92	60.3	38.8	78.8

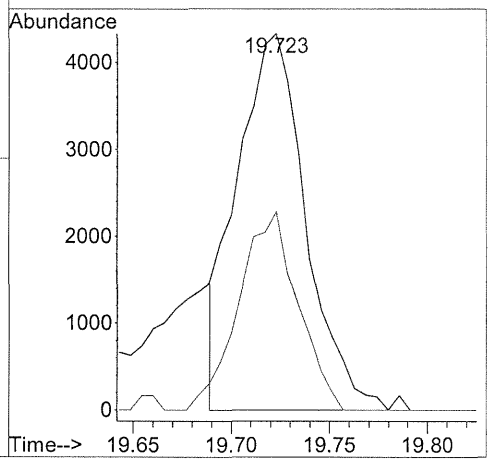


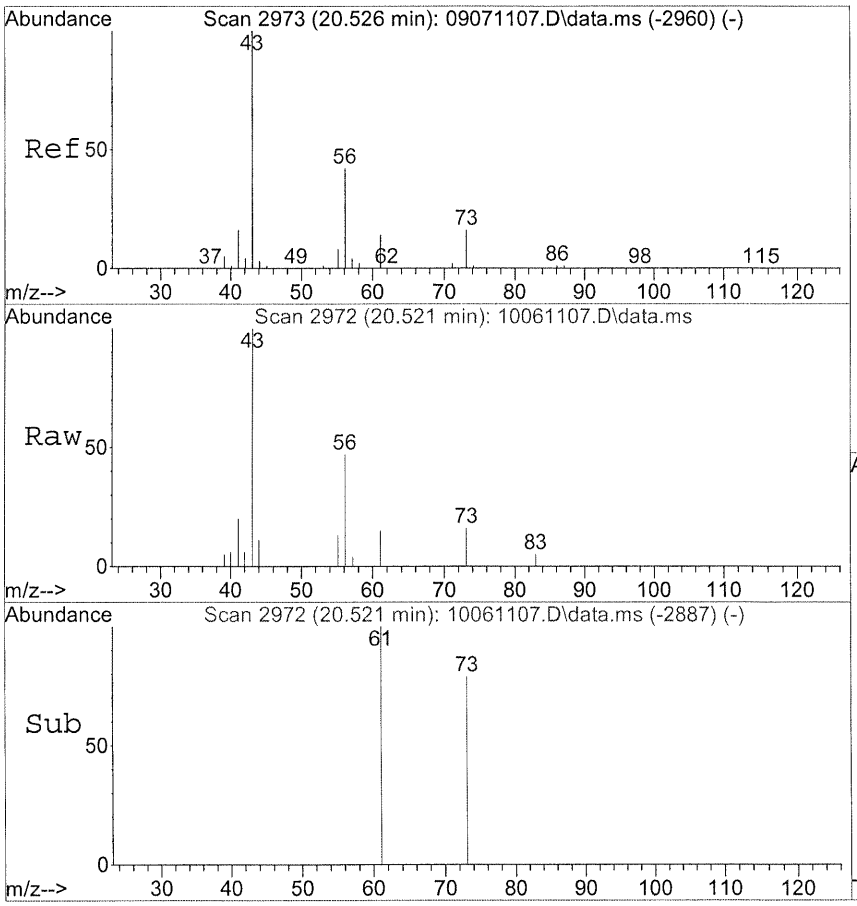


#59
2-Hexanone
Concen: 0.29 ng m
RT: 19.72 min Scan# 2832
Delta R.T. -0.011 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 43 Resp: 10571

Ion	Ratio	Lower	Upper
43	100		
58	45.1	37.7	77.7

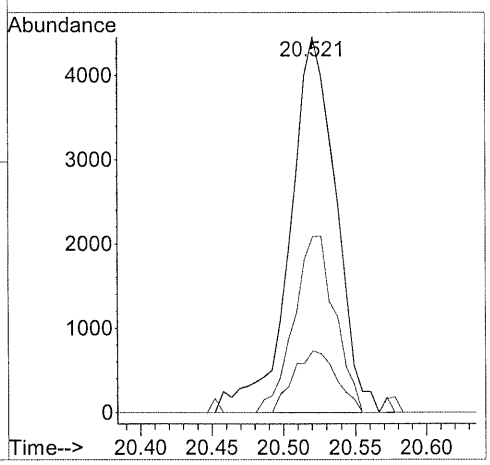


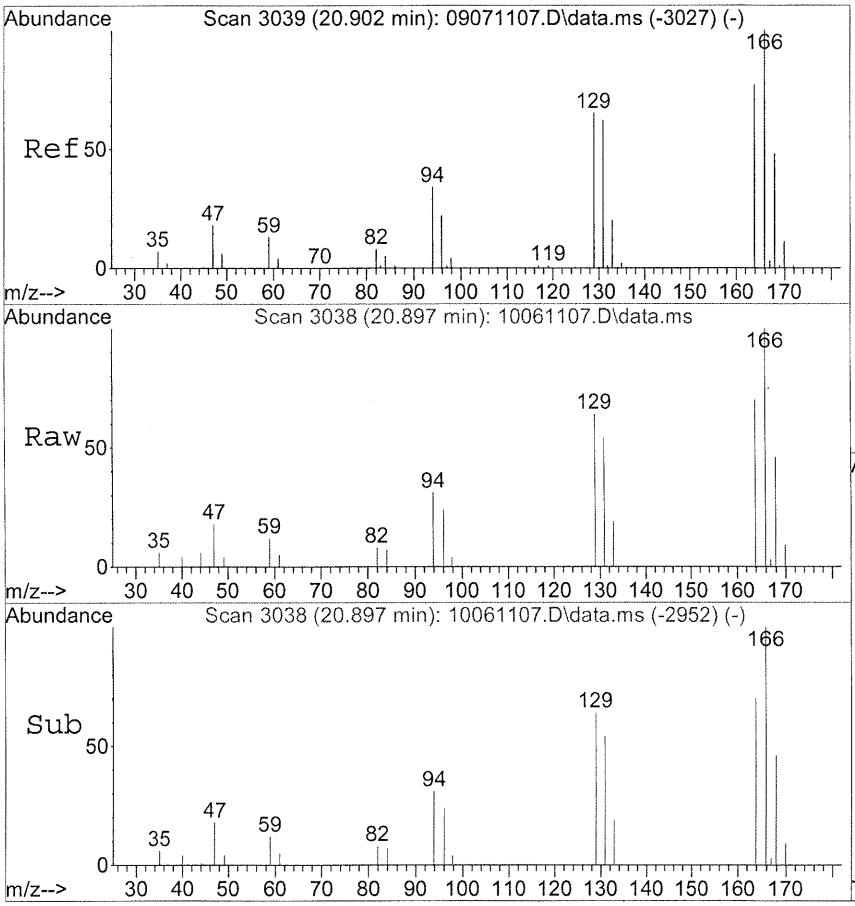


#62
n-Butyl Acetate
Concen: 0.23 ng
RT: 20.52 min Scan# 2972
Delta R.T. -0.017 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 43 Resp: 9903

Ion	Ratio	Lower	Upper
43	100		
56	41.9	23.6	63.6
73	15.3	0.1	40.1

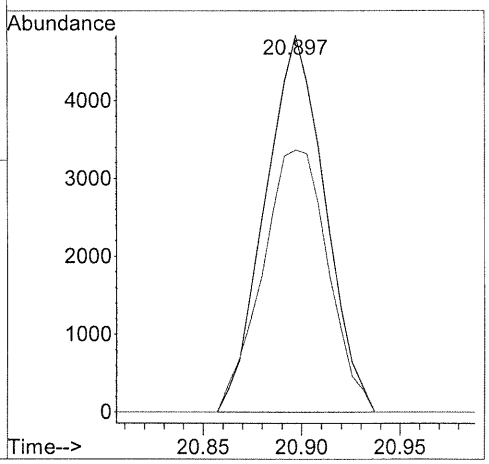


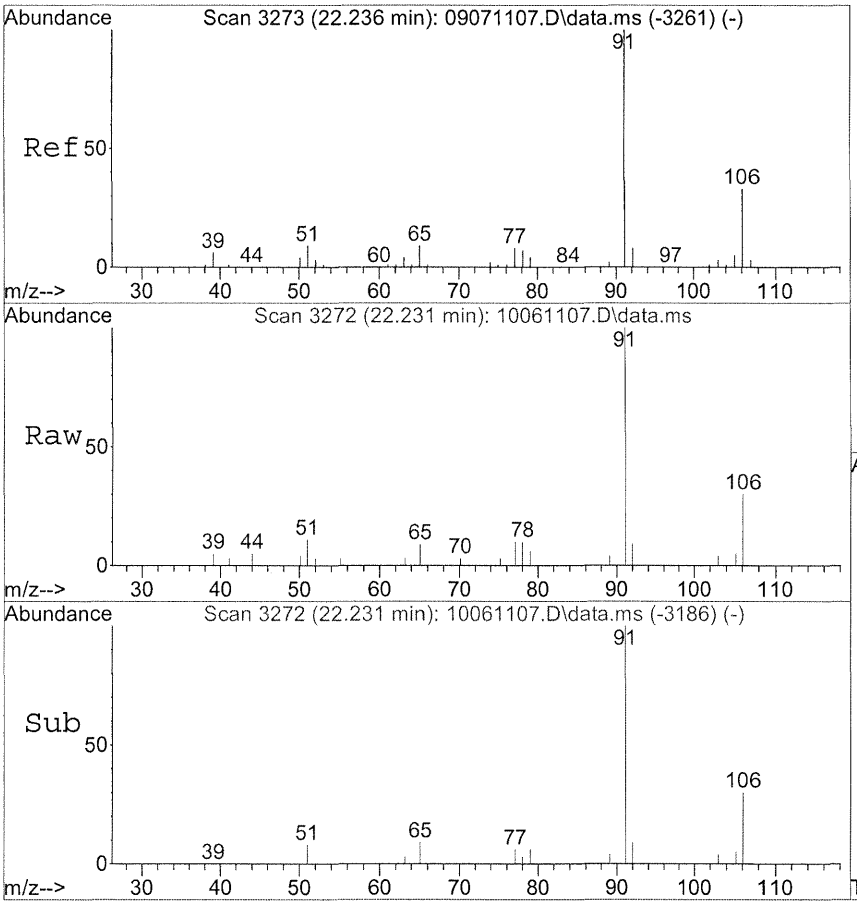


#64
Tetrachloroethene
Concen: 0.49 ng
RT: 20.90 min Scan# 3038
Delta R.T. -0.011 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion:166 Resp: 10140

Ion	Ratio	Lower	Upper
166	100		
164	76.7	58.2	98.2

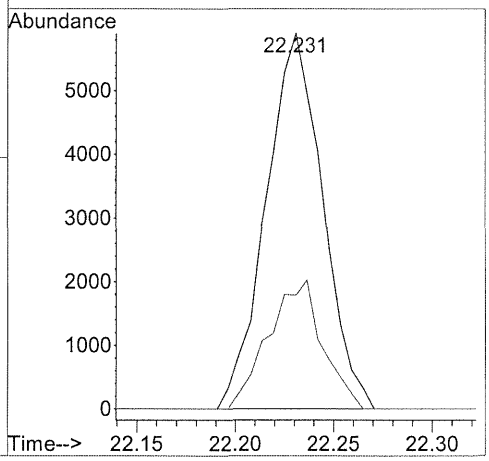


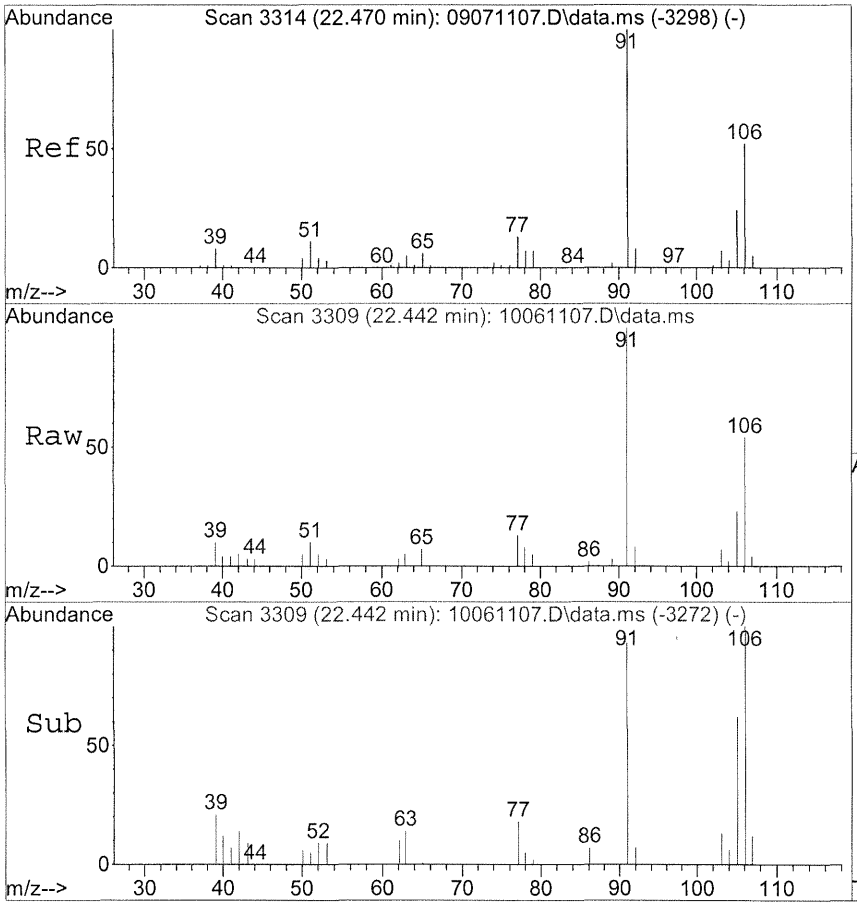


#66
Ethylbenzene
Concen: 0.16 ng
RT: 22.23 min Scan# 3272
Delta R.T. -0.011 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 91 Resp: 11787

Ion	Ratio	Lower	Upper
91	100		
106	32.7	12.0	52.0

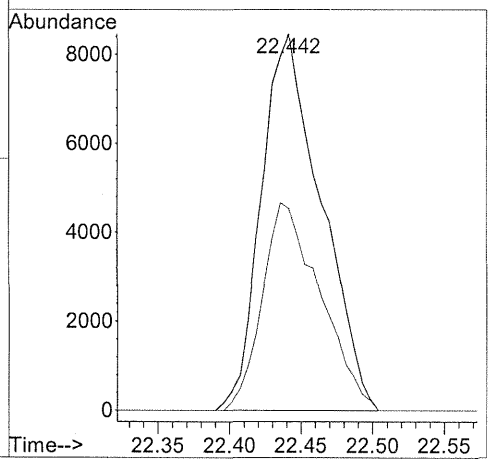


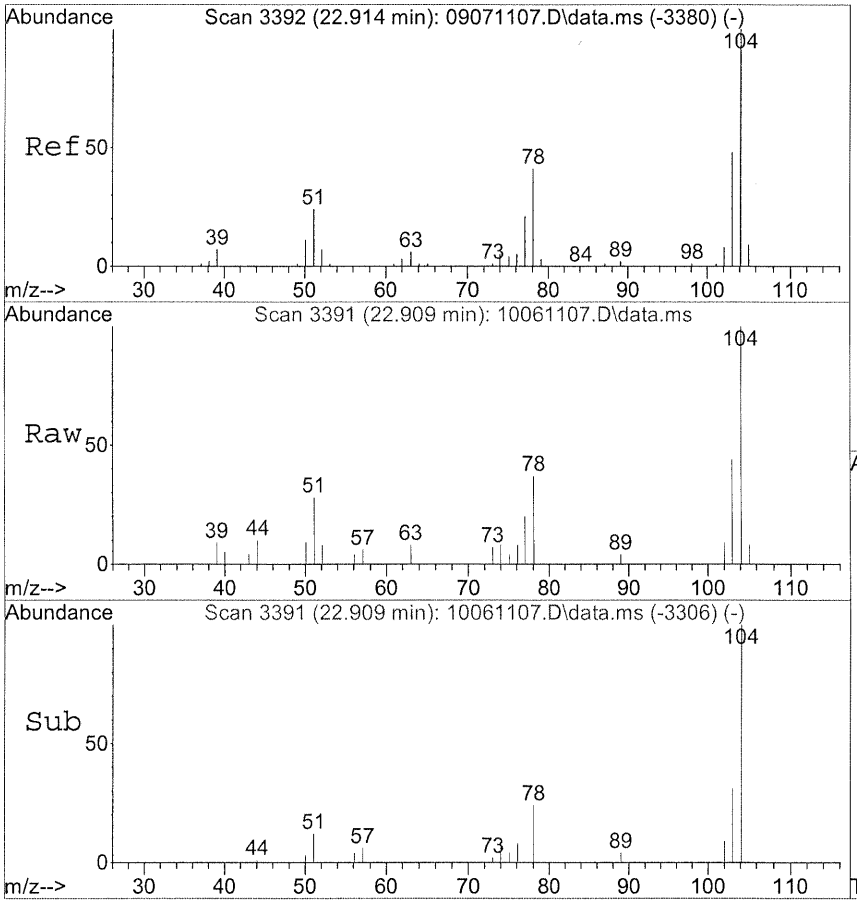


#67
m- & p-Xylenes
Concen: 0.43 ng
RT: 22.44 min Scan# 3309
Delta R.T. -0.040 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 91 Resp: 24581

Ion	Ratio	Lower	Upper
91	100		
106	53.3	27.4	67.4

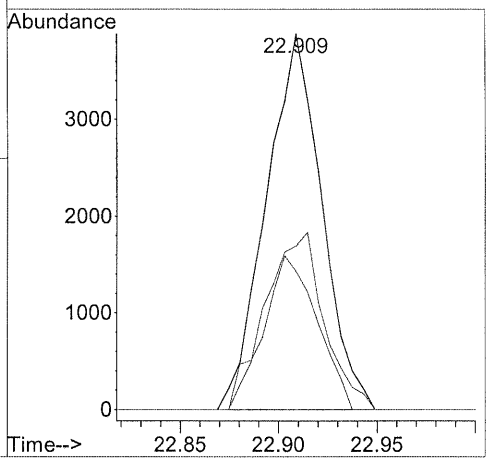


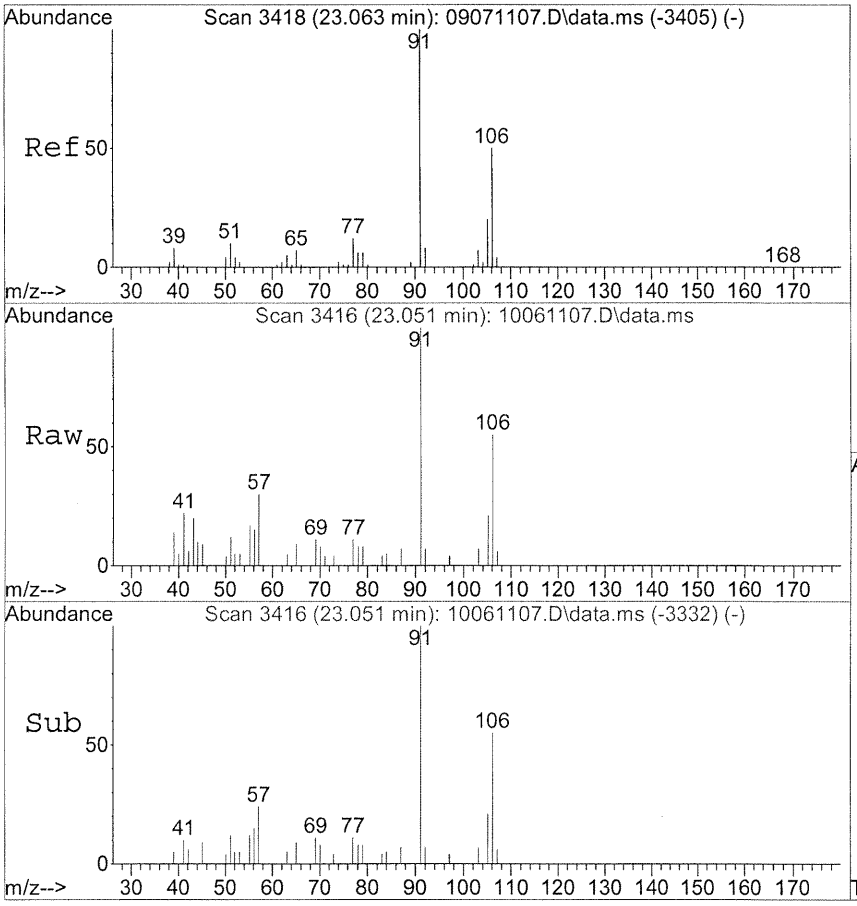


#69
Styrene
Concen: 0.17 ng
RT: 22.91 min Scan# 3391
Delta R.T. -0.017 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion:104 Resp: 7577

Ion	Ratio	Lower	Upper
104	100		
78	40.3	27.4	67.4
103	48.9	27.3	67.3

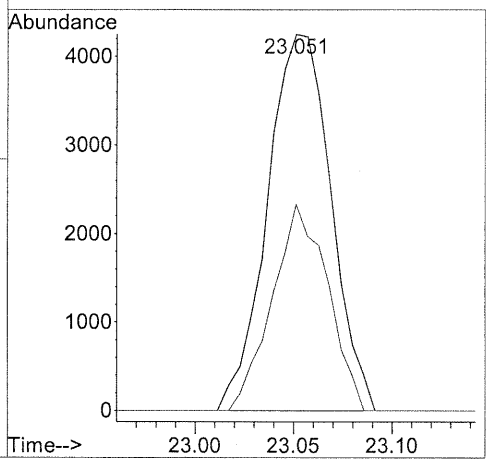


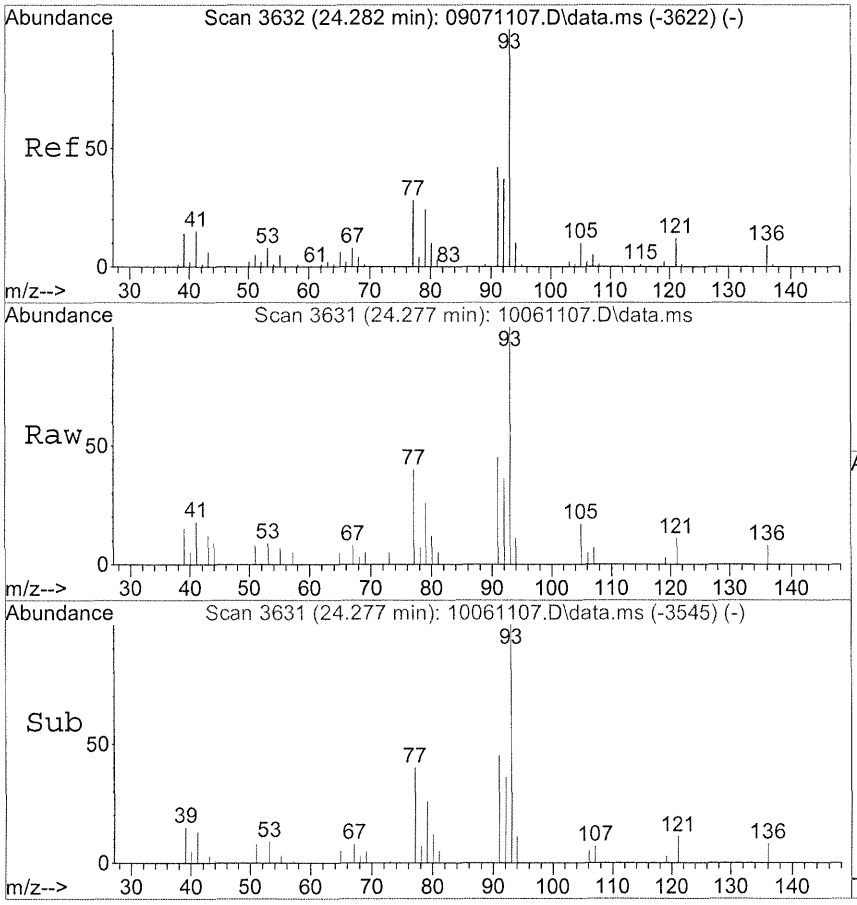


#70
o-Xylene
Concen: 0.16 ng
RT: 23.05 min Scan# 3416
Delta R.T. -0.023 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 91 Resp: 9492

Ion	Ratio	Lower	Upper
91	100		
106	47.8	25.7	65.7

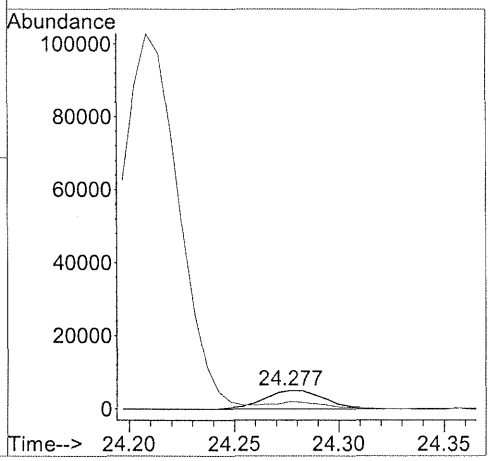


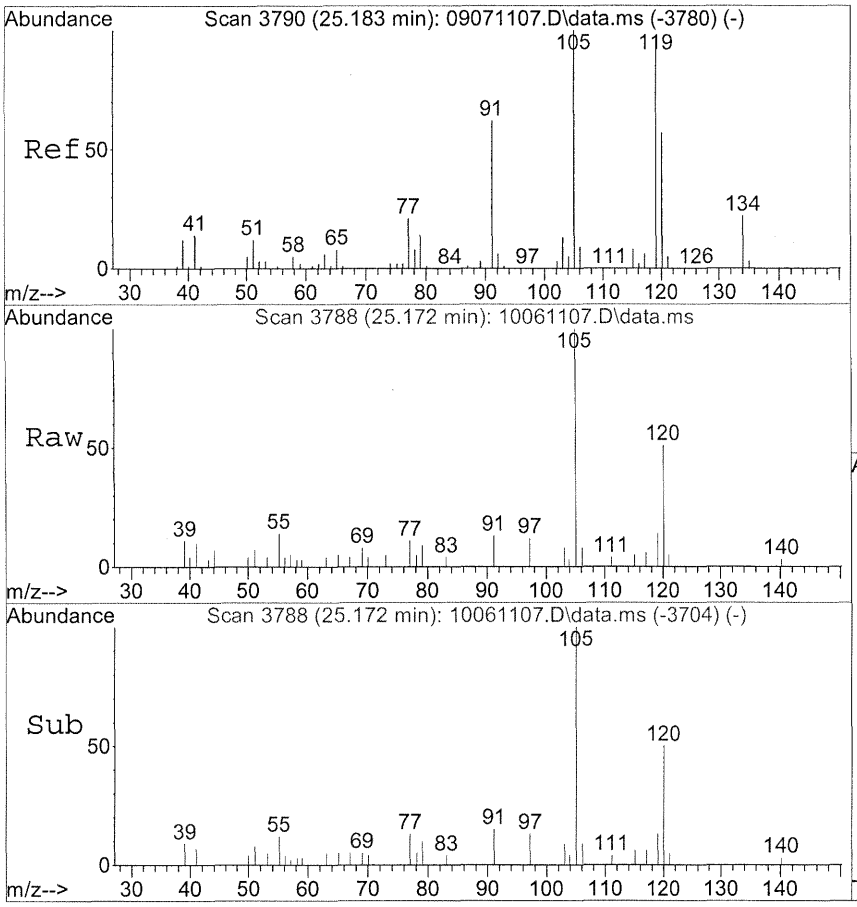


#75
alpha-Pinene
Concen: 0.25 ng
RT: 24.28 min Scan# 3631
Delta R.T. -0.011 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 93 Resp: 9850

Ion	Ratio	Lower	Upper
93	100		
77	34.7	12.5	52.5

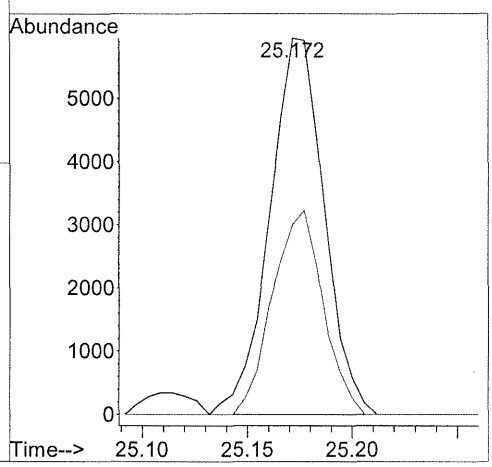


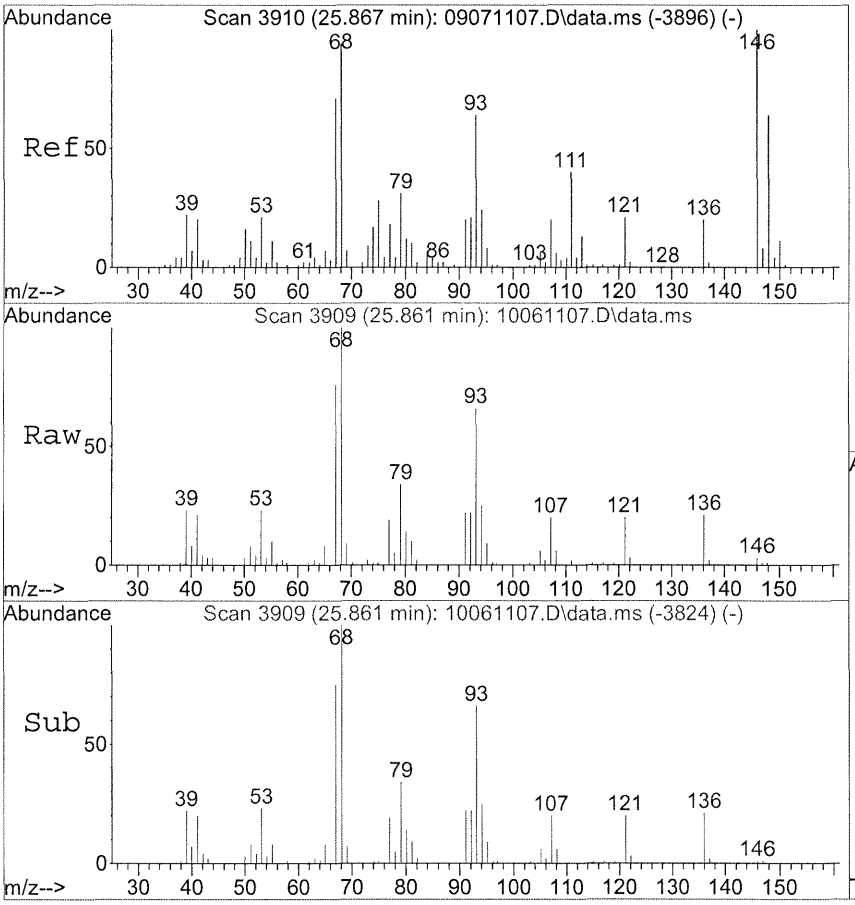


#82
1,2,4-Trimethylbenzene
Concen: 0.17 ng
RT: 25.17 min Scan# 3788
Delta R.T. -0.023 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion:105 Resp: 10768

Ion	Ratio	Lower	Upper
105	100		
120	50.4	29.9	69.9

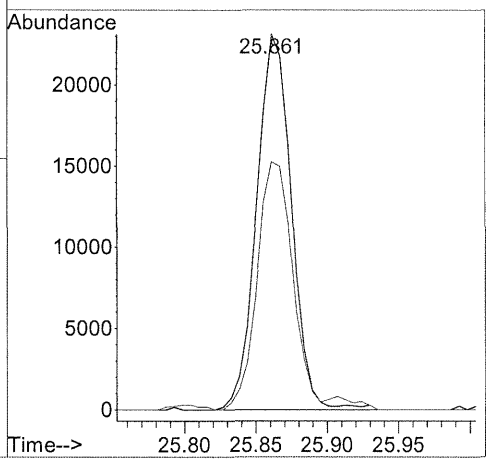


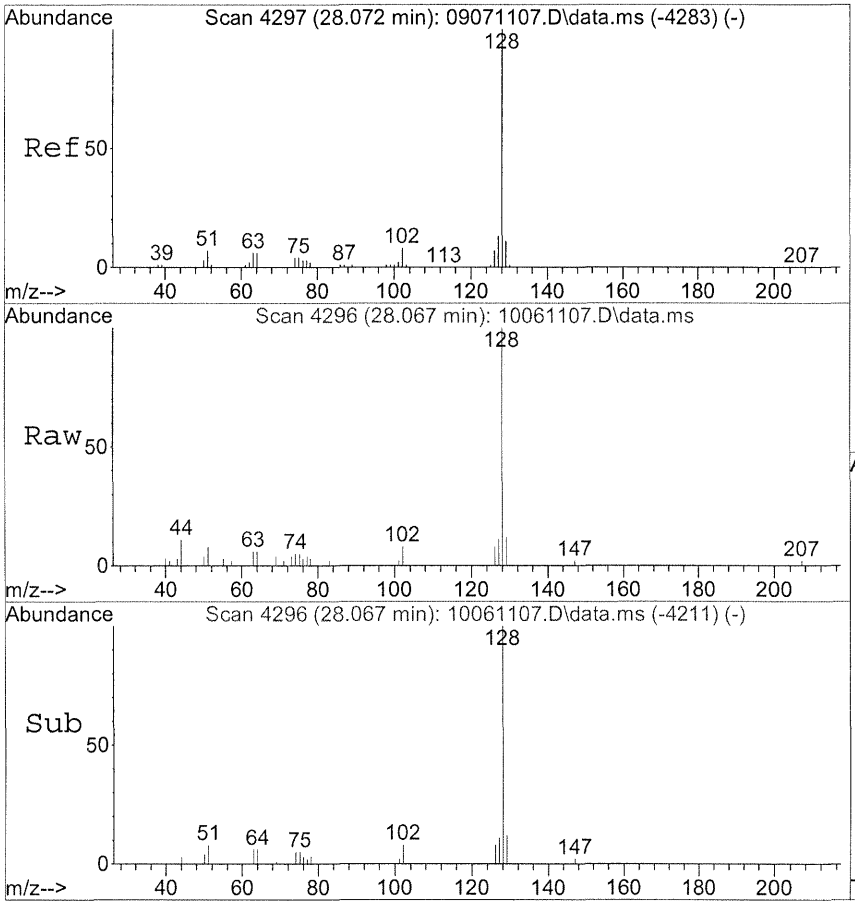


#91
d-Limonene
Concen: 1.54 ng
RT: 25.86 min Scan# 3909
Delta R.T. -0.017 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion: 68 Resp: 39130

Ion	Ratio	Lower	Upper
68	100		
93	69.9	51.7	91.7

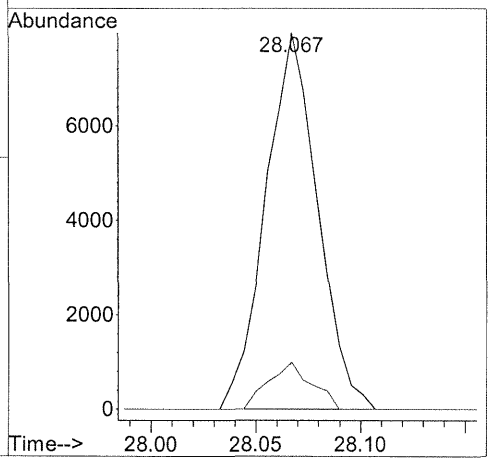




#95
Naphthalene
Concen: 0.15 ng
RT: 28.07 min Scan# 4296
Delta R.T. -0.017 min
Lab File: 10061107.D
Acq: 6 Oct 2011 13:51

Tgt Ion:128 Resp: 13789

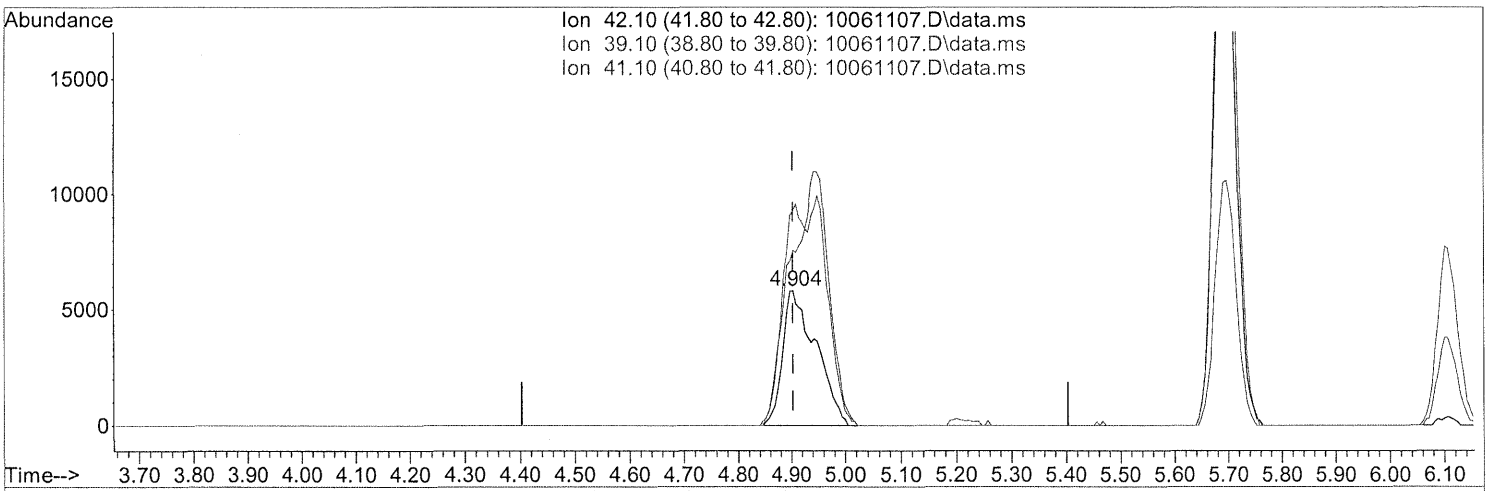
Ion	Ratio	Lower	Upper
128	100		
129	10.3	0.0	31.1

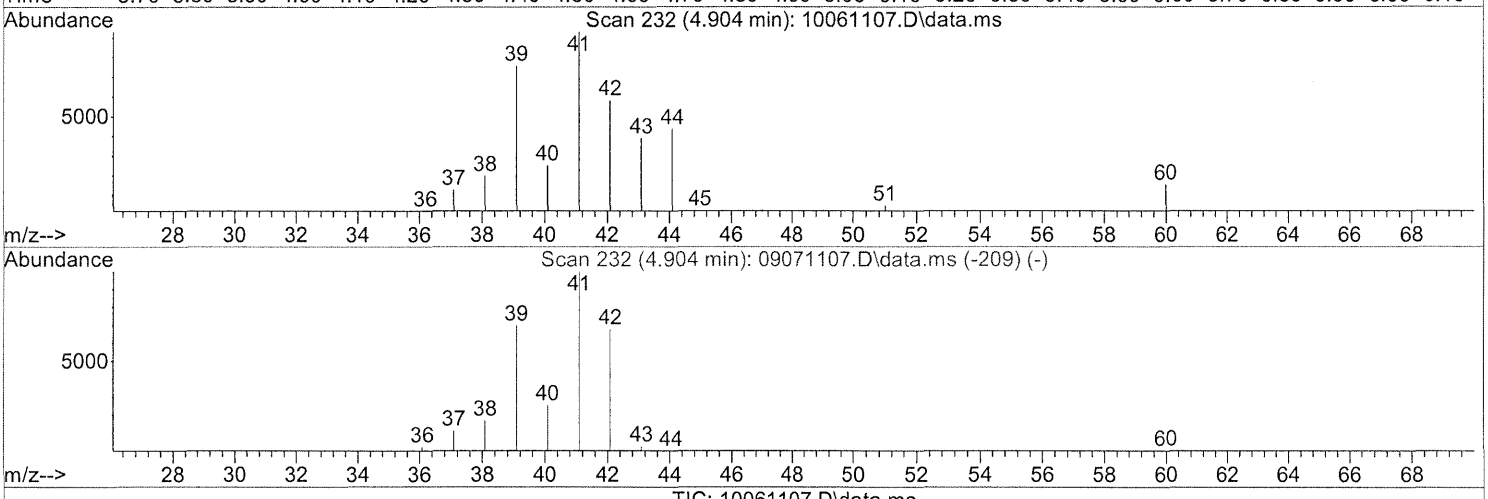


Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration





TIC: 10061107.D\data.ms

(2) Propene (T)

4.904min (+0.000) 1.09ng

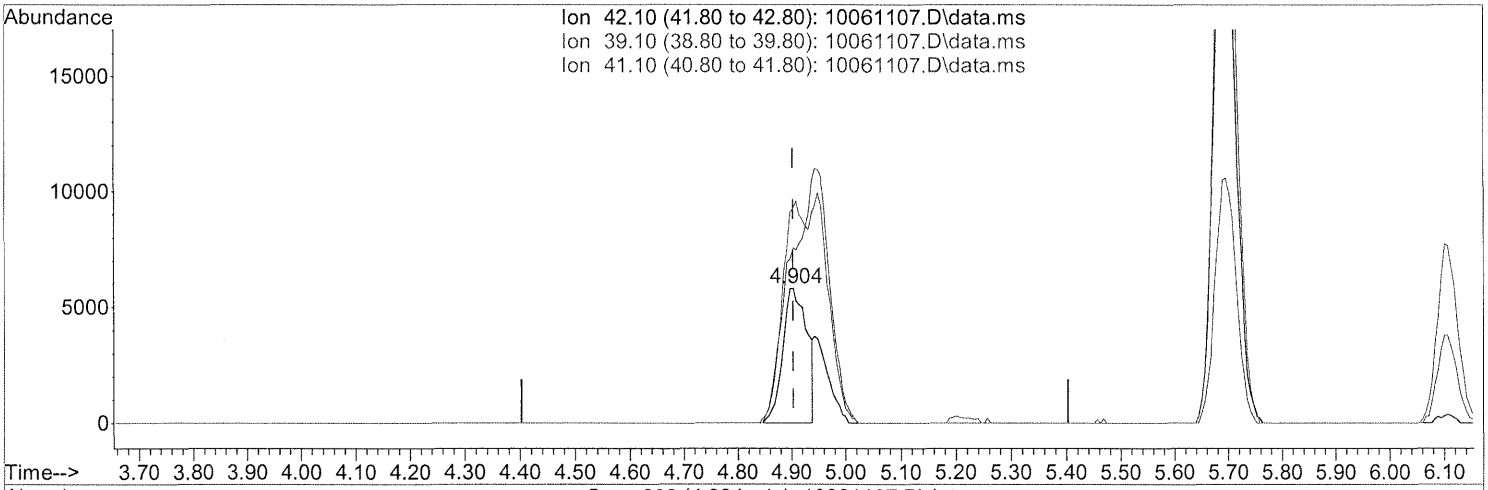
response 25069

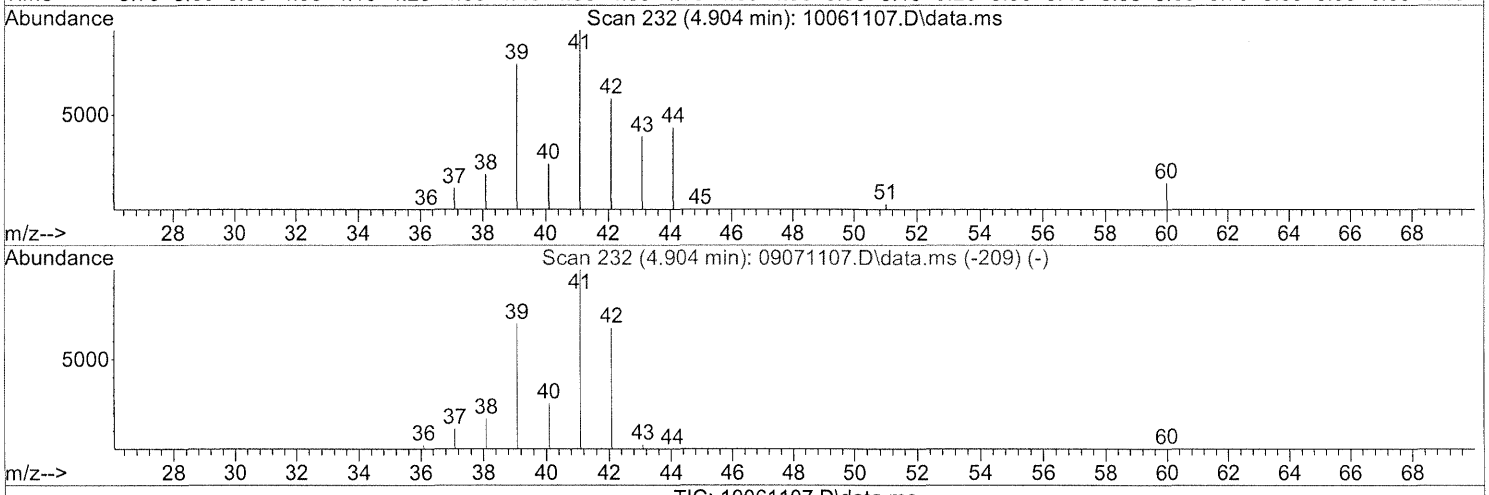
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration





TIC: 10061107.D\data.ms

(2) Propene (T)

4.904min (+0.000) 0.78ng m

response 18004

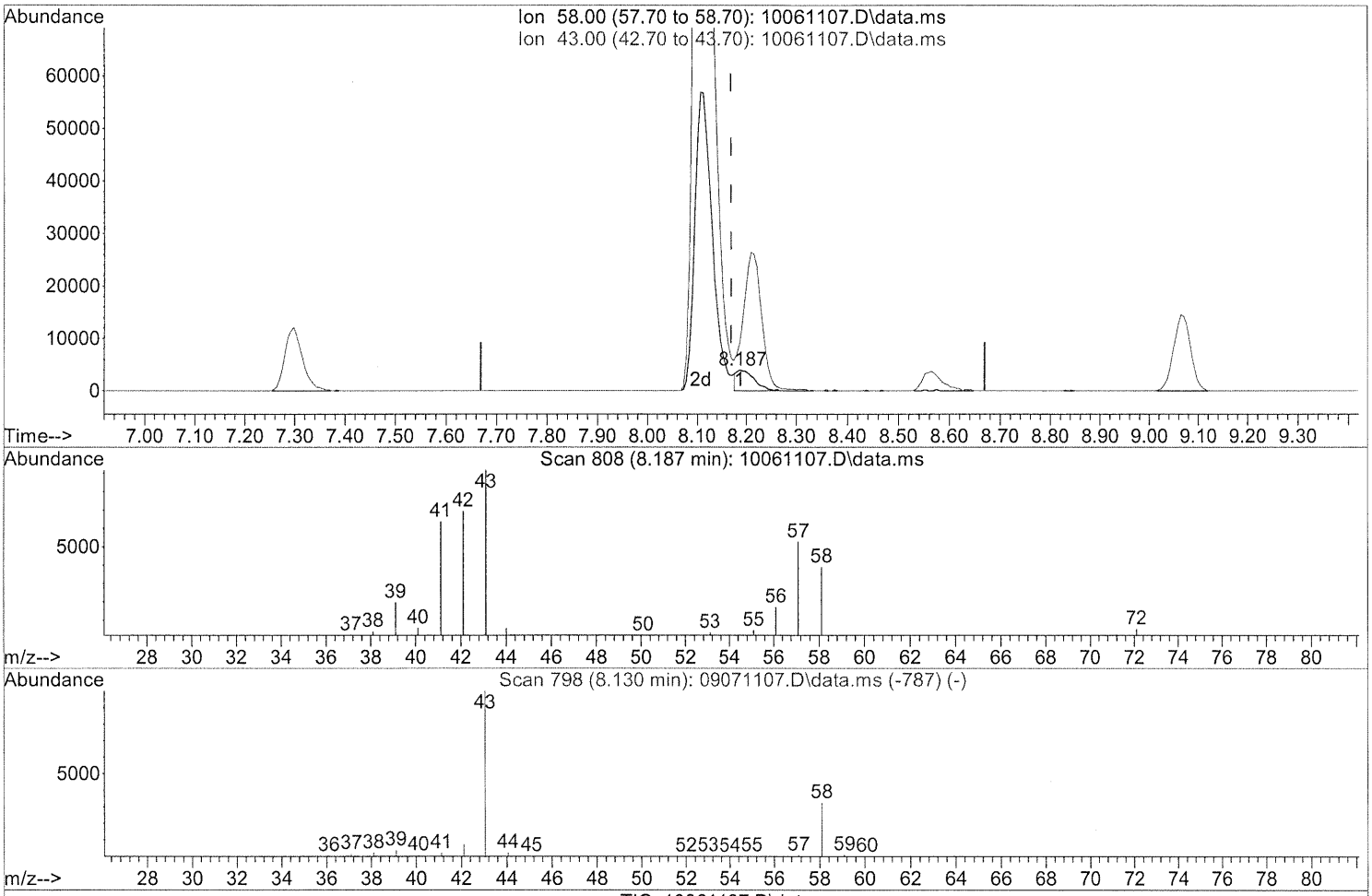
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	0.00#
0.00	0.00	0.00

IPC
10/7/11
10/7/11

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061107.D\data.ms

(13) Acetone (T)

8.187min (+0.017) 0.75ng

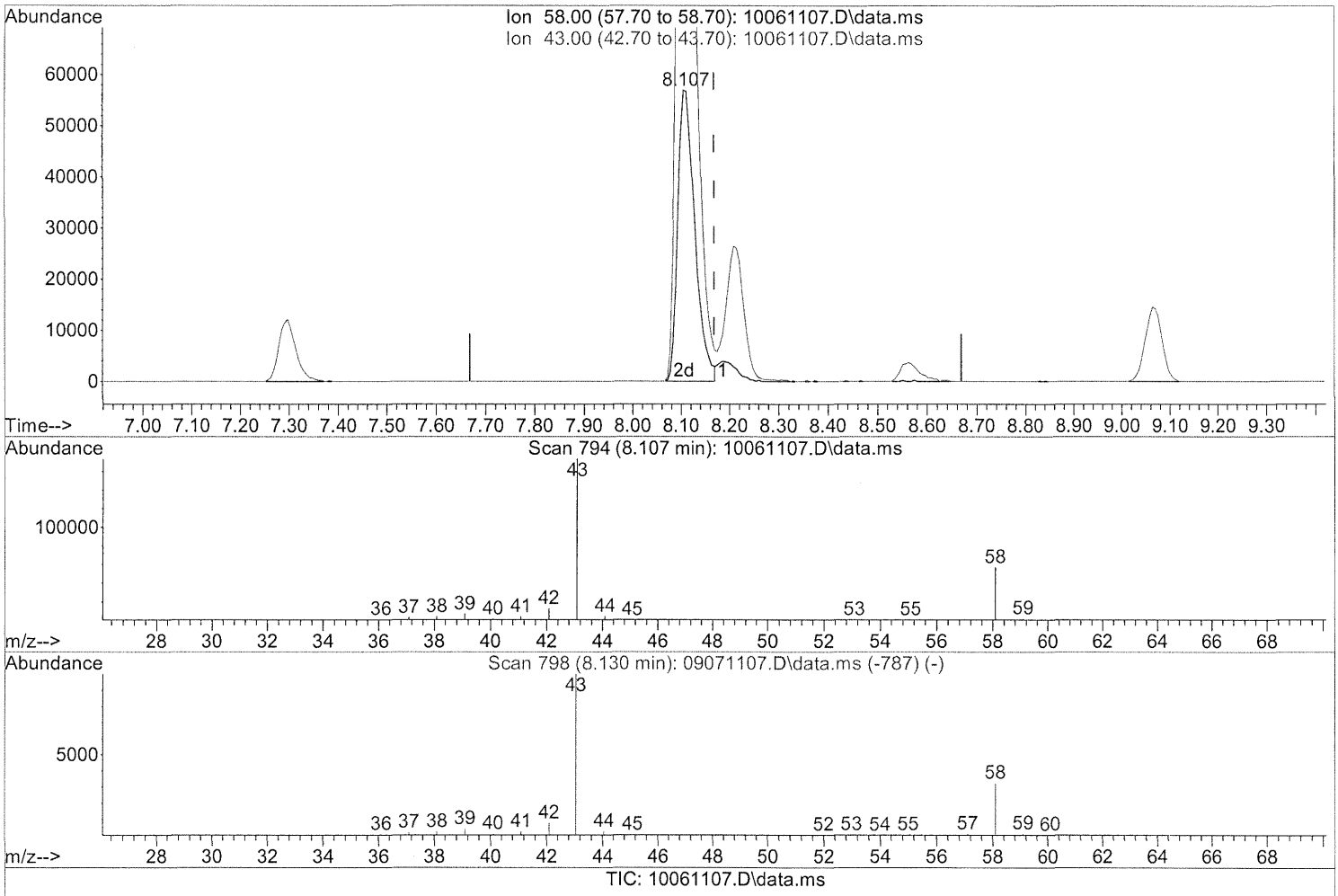
response 9495

Ion	Exp%	Act%
58.00	100	100
43.00	313.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061107.D\data.ms

(13) Acetone (T)

8.107min (-0.063) 10.95ng m

response 139468

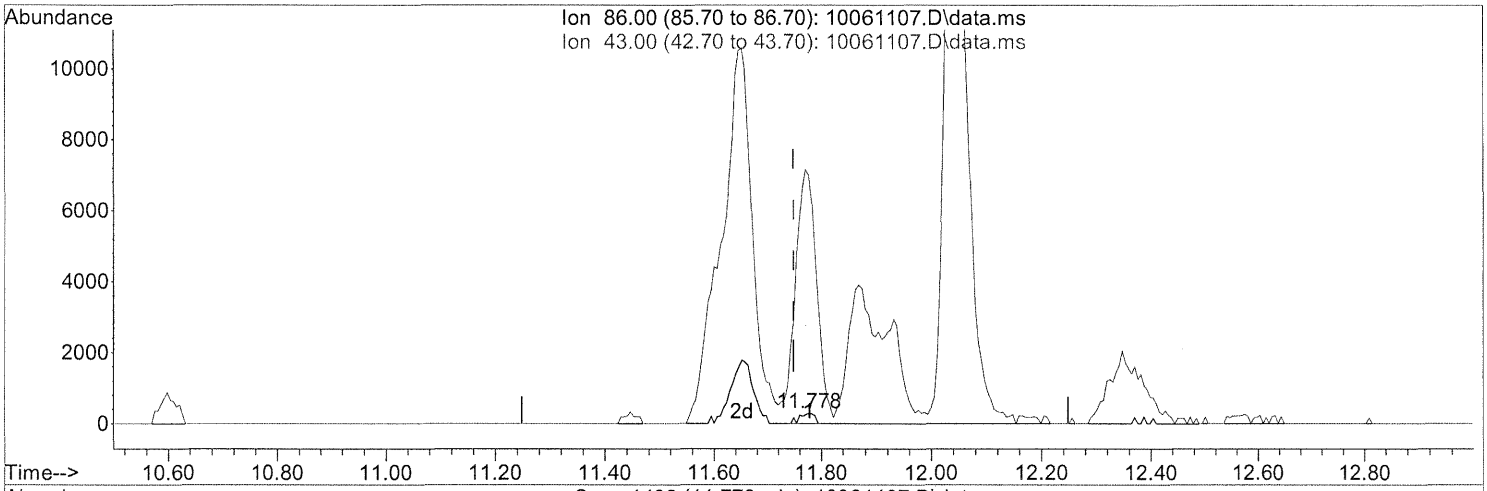
Ion	Exp%	Act%
58.00	100	100
43.00	313.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

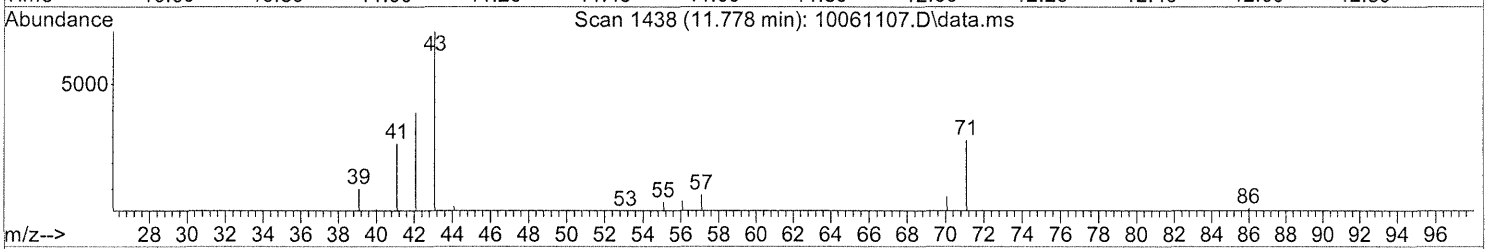
WP
EM 10/7/11
10/7/11

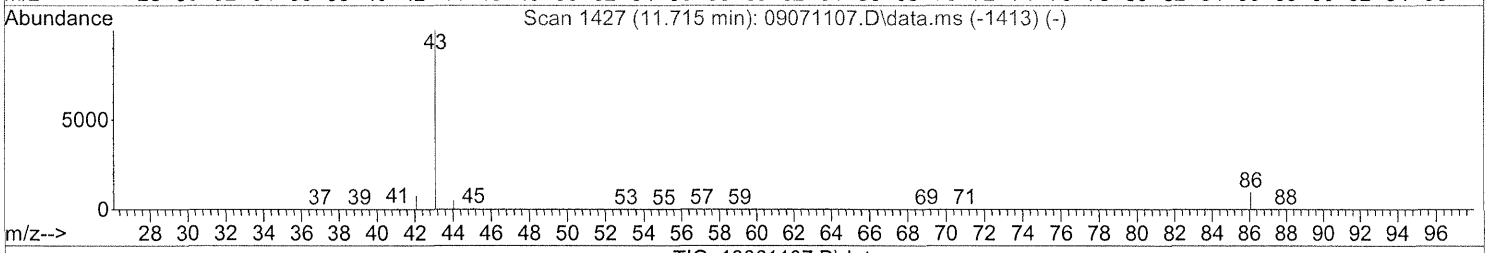
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061107.D\data.ms

(26) Vinyl Acetate (T)

11.778min (+0.029) 0.12ng

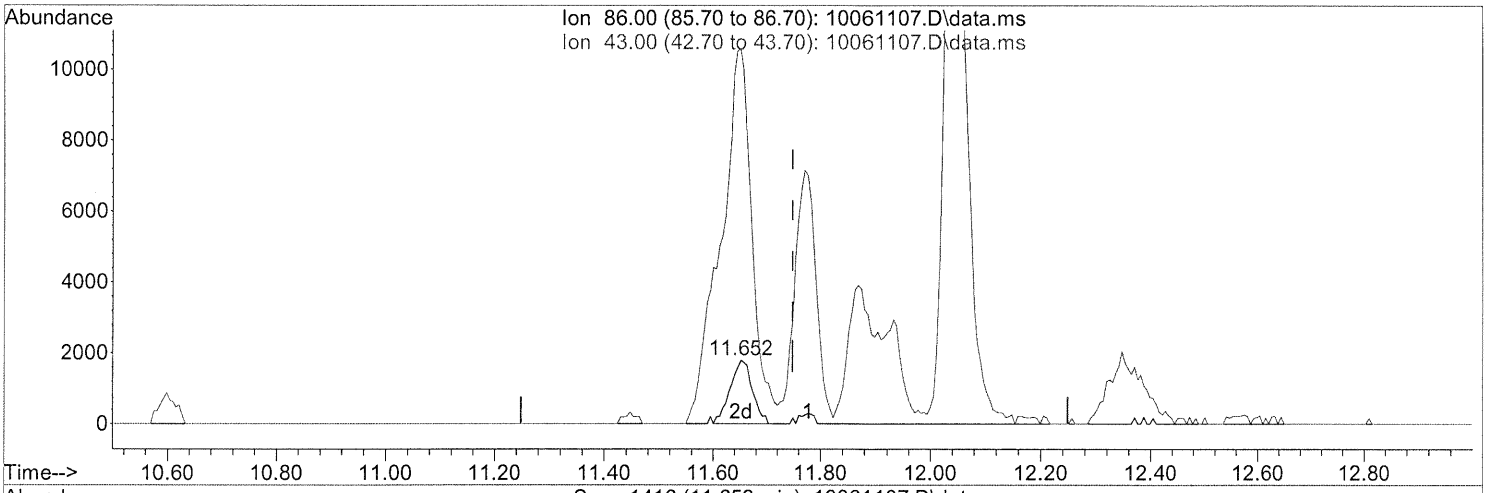
response 539

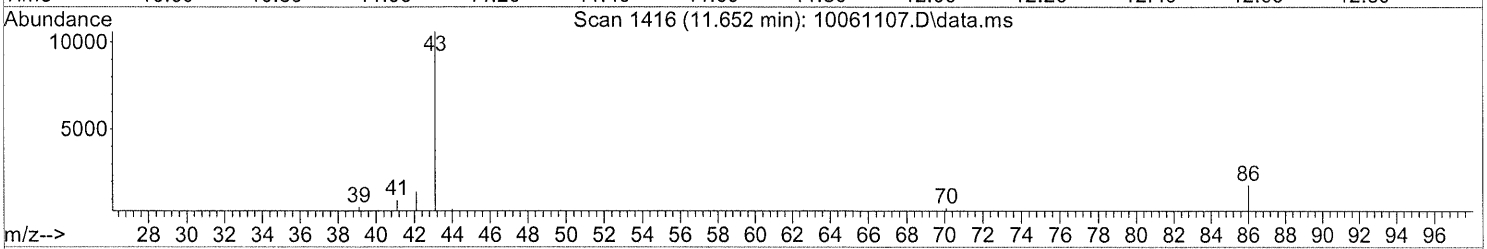
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	3670.32#
0.00	0.00	0.00
0.00	0.00	0.00

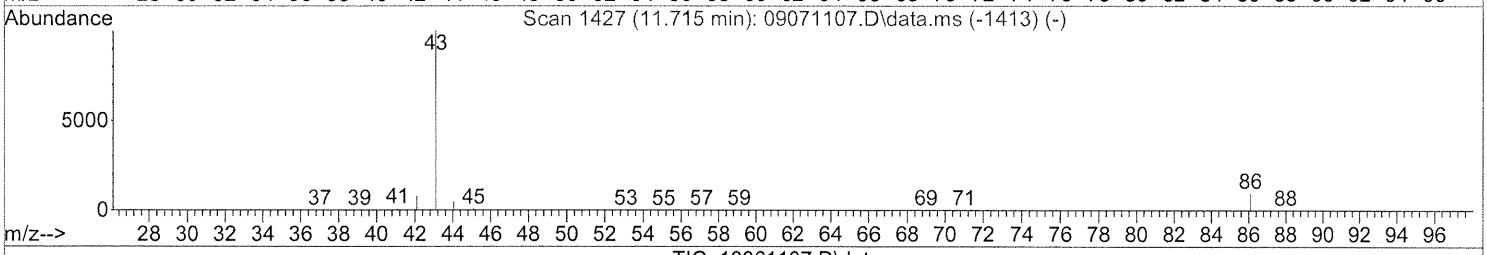
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061107.D\data.ms

(26) Vinyl Acetate (T)

11.652min (-0.097) 1.14ng m

response 5110

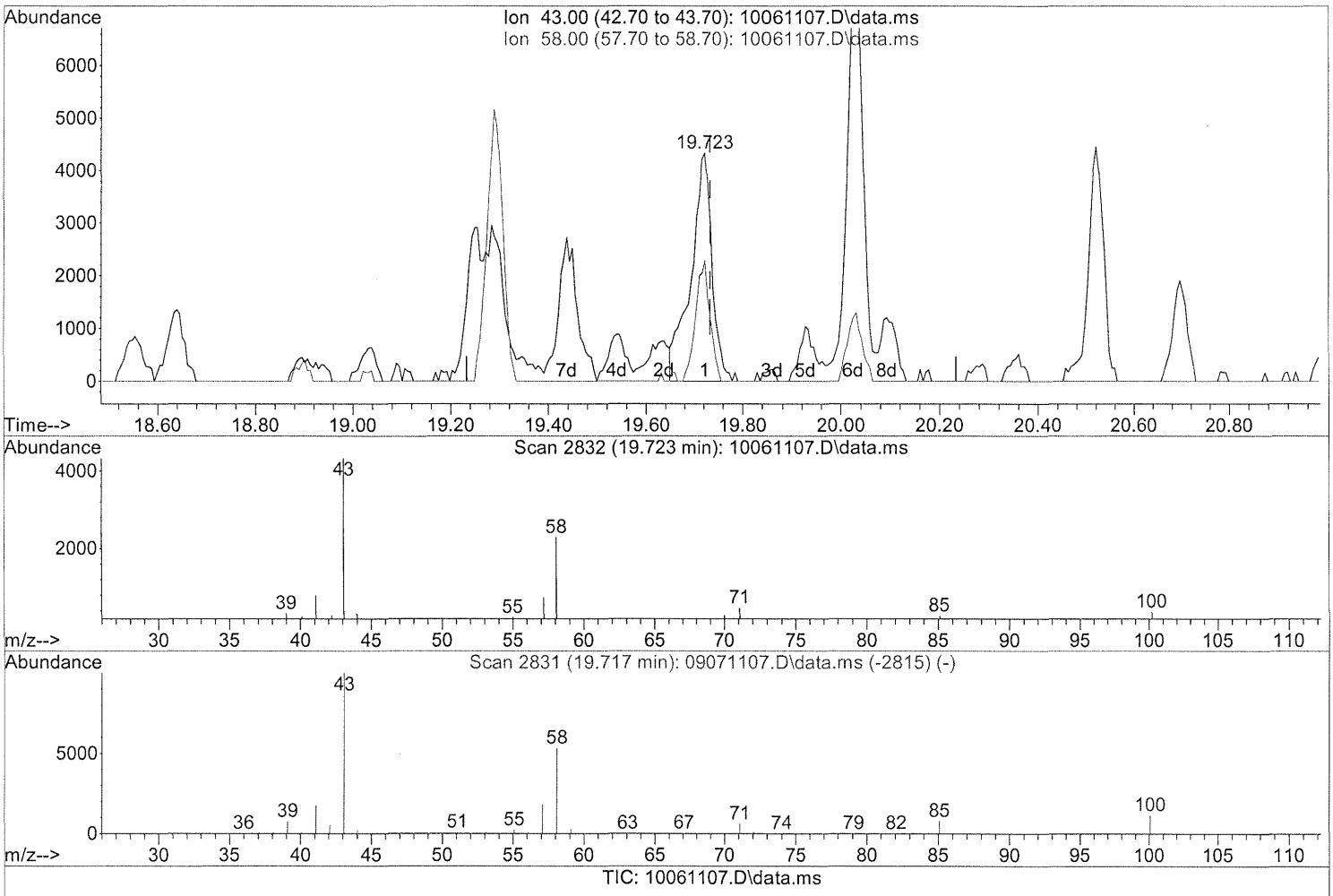
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	387.14#
0.00	0.00	0.00
0.00	0.00	0.00

WP
Sam 10/7/11
10/7/11

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061107.D\data.ms

(59) 2-Hexanone (T)

19.723min (-0.011) 0.36ng

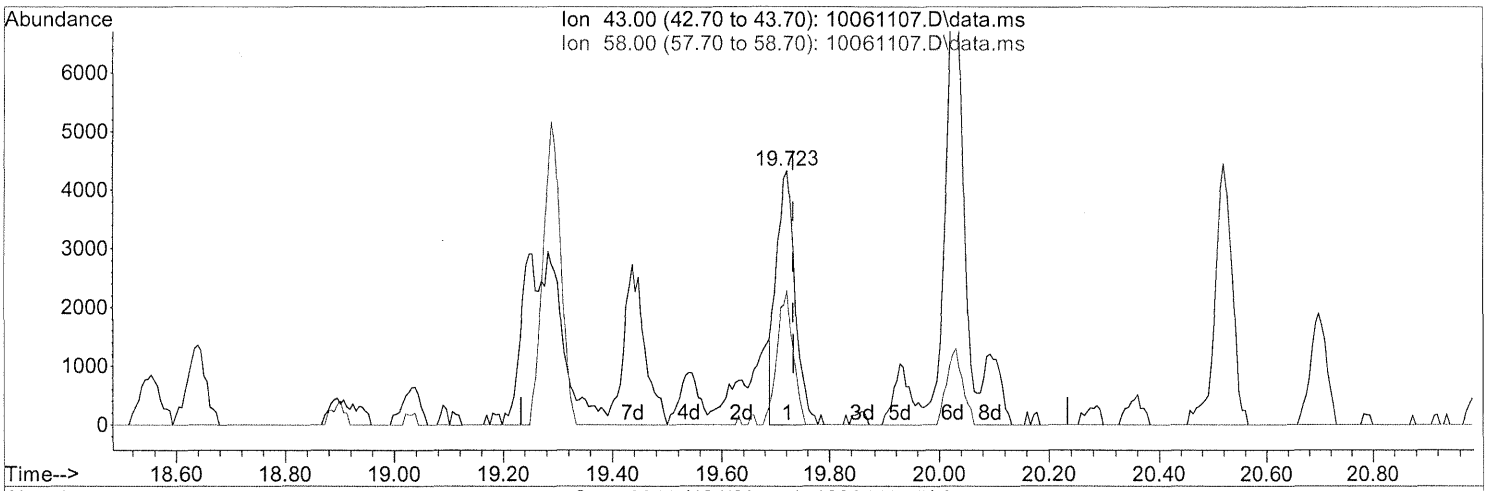
response 13338

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	35.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 13:51
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061107.D\data.ms

(59) 2-Hexanone (T)

19.723min (-0.011) 0.29ng m

response 10571

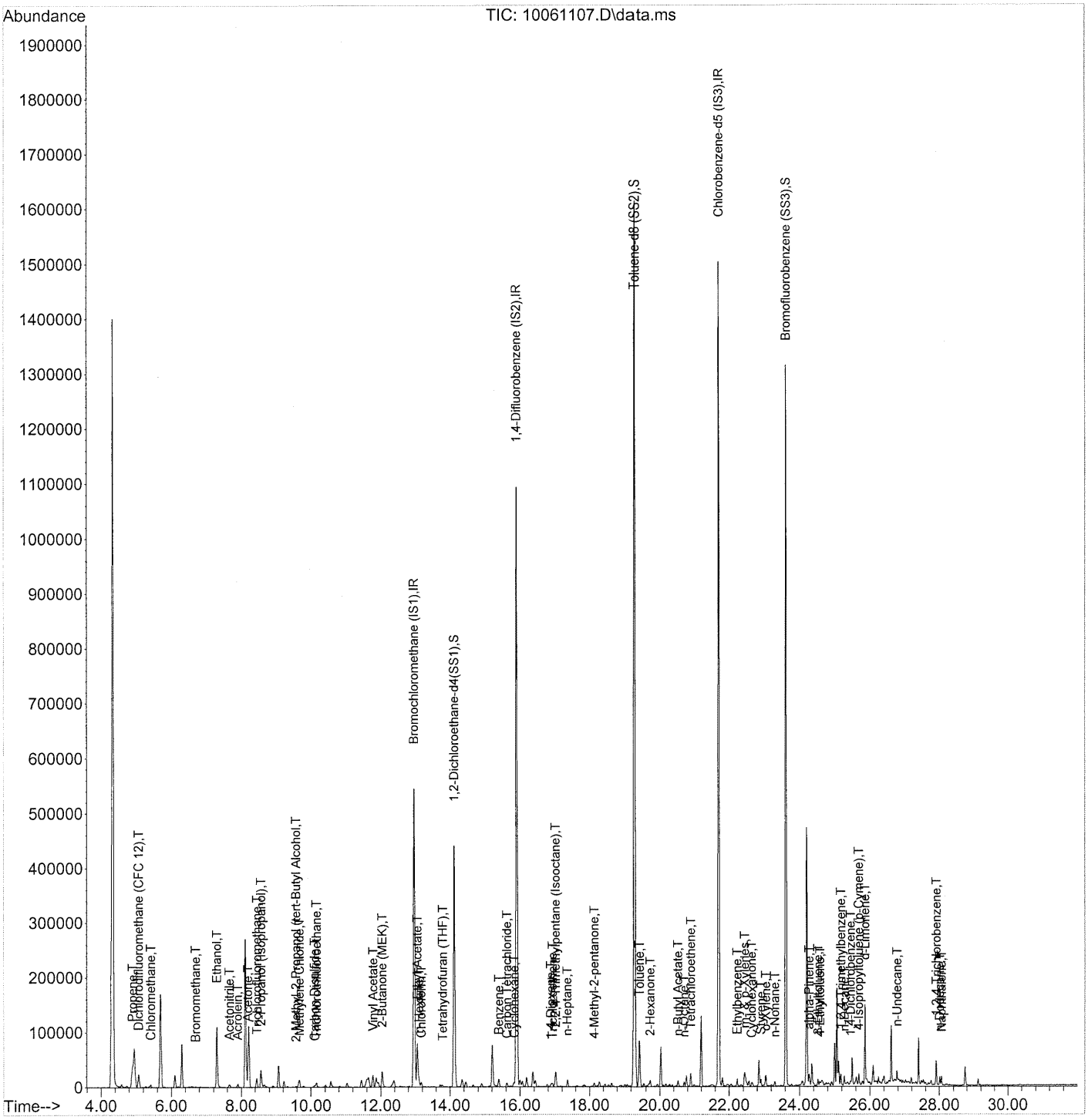
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	45.11
0.00	0.00	0.00
0.00	0.00	0.00

IPC
Com 10/7/11
10/7/11

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 1:51 pm
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 1:51 pm
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	287477	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1295255	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	616855	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	428718	24.951	ng		-0.02
Spiked Amount 25.000			Recovery = 99.80%				
57) Toluene-d8 (SS2)	19.30	98	1432203	24.982	ng		-0.01
Spiked Amount 25.000			Recovery = 99.92%				
73) Bromofluorobenzene (SS3)	23.62	174	518489	25.635	ng		0.00
Spiked Amount 25.000			Recovery = 102.56%				
Target Compounds							Qvalue
2) Propene	4.90	42	25069	1.089	ng	#	1
3) Dichlorodifluoromethan...	5.07	85	38052	1.337	ng		97
4) Chloromethane	5.42	50	5181	0.217	ng		98
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	879	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.19	54	527	N.D.			
8) Bromomethane	6.69	94	819	0.063	ng		98
9) Chloroethane	7.05	64	249	N.D.			
10) Ethanol	7.30	45	153835	11.561	ng		100
11) Acetonitrile	7.66	41	6191	0.200	ng	#	67
12) Acrolein	7.89	56	6611	0.657	ng		97
13) Acetone	8.19	58	9495	0.746	ng	#	1
14) Trichlorofluoromethane	8.45	101	18338	0.717	ng		100
15) 2-Propanol (Isopropanol)	8.56	45	53686	1.500	ng		93
16) Acrylonitrile	8.91	53	1140	N.D.			
17) 1,1-Dichloroethene	9.49	96	311	N.D.			
18) 2-Methyl-2-Propanol (t...	9.58	59	2413	0.062	ng	#	71
19) Methylene Chloride	9.67	84	6943	0.439	ng		82
20) 3-Chloro-1-propene (Al...	9.79	41	613	N.D.			
21) Trichlorotrifluoroethane	10.16	151	4072	0.306	ng		100
22) Carbon Disulfide	10.11	76	6191	0.113	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	11.57	73	697	N.D.			
26) Vinyl Acetate	11.78	86	539	0.120	ng	#	1
27) 2-Butanone (MEK)	12.05	72	11339	1.033	ng	#	41
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.07	87	54	N.D.			
30) Ethyl Acetate	13.05	61	16844	2.831	ng		81
31) n-Hexane	13.11	57	9300	0.303	ng	#	95

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 1:51 pm
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.17	83	9736	0.420 ng		96
34) Tetrahydrofuran (THF)	13.79	72	955	0.094 ng	#	29
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.29	62	550	N.D.		
38) 1,1,1-Trichloroethane	14.72	97	430	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.32	56	596	N.D.		
41) Benzene	15.40	78	18135	0.298 ng		98
42) Carbon Tetrachloride	15.63	117	5672	0.301 ng		98
43) Cyclohexane	15.84	84	4550	0.172 ng		85
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.90	83	485	N.D.		
47) Trichloroethene	16.93	130	2498	0.142 ng		94
48) 1,4-Dioxane	16.88	88	934	0.074 ng		99
49) 2,2,4-Trimethylpentane...	17.02	57	31323	0.417 ng		97
50) Methyl Methacrylate	17.16	100	55	N.D.		
51) n-Heptane	17.36	71	3809	0.211 ng		95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.14	58	2131	0.138 ng	#	67
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.42	91	76047	1.147 ng		98
59) 2-Hexanone	19.72	43	13338	0.361 ng	#	70
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.52	43	9903	0.229 ng		95
63) n-Octane	20.70	57	1404	0.093 ng	#	80
64) Tetrachloroethene	20.90	166	10140	0.489 ng		98
65) Chlorobenzene	21.76	112	648	N.D.		
66) Ethylbenzene	22.23	91	11787	0.162 ng		99
67) m- & p-Xylenes	22.44	91	24581	0.426 ng		91
68) Bromoform	22.57	173	52	N.D.		
69) Styrene	22.91	104	7577	0.168 ng		94
70) o-Xylene	23.05	91	9492	0.156 ng		97
71) n-Nonane	23.31	43	4551	0.115 ng	#	73
72) 1,1,2,2-Tetrachloroethane	23.03	83	509	N.D.		
74) Cumene	23.79	105	1989	N.D.		
75) alpha-Pinene	24.28	93	9850	0.251 ng		96
76) n-Propylbenzene	24.41	91	4477	N.D.		
77) 3-Ethyltoluene	24.53	105	8234	0.107 ng		98
78) 4-Ethyltoluene	24.58	105	5066	0.068 ng		96
79) 1,3,5-Trimethylbenzene	24.68	105	3701	N.D.		

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061107.D
Acq On : 6 Oct 2011 1:51 pm
Operator : EM/CR
Sample : P1103662-001 (1000ml)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 08:45:39 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

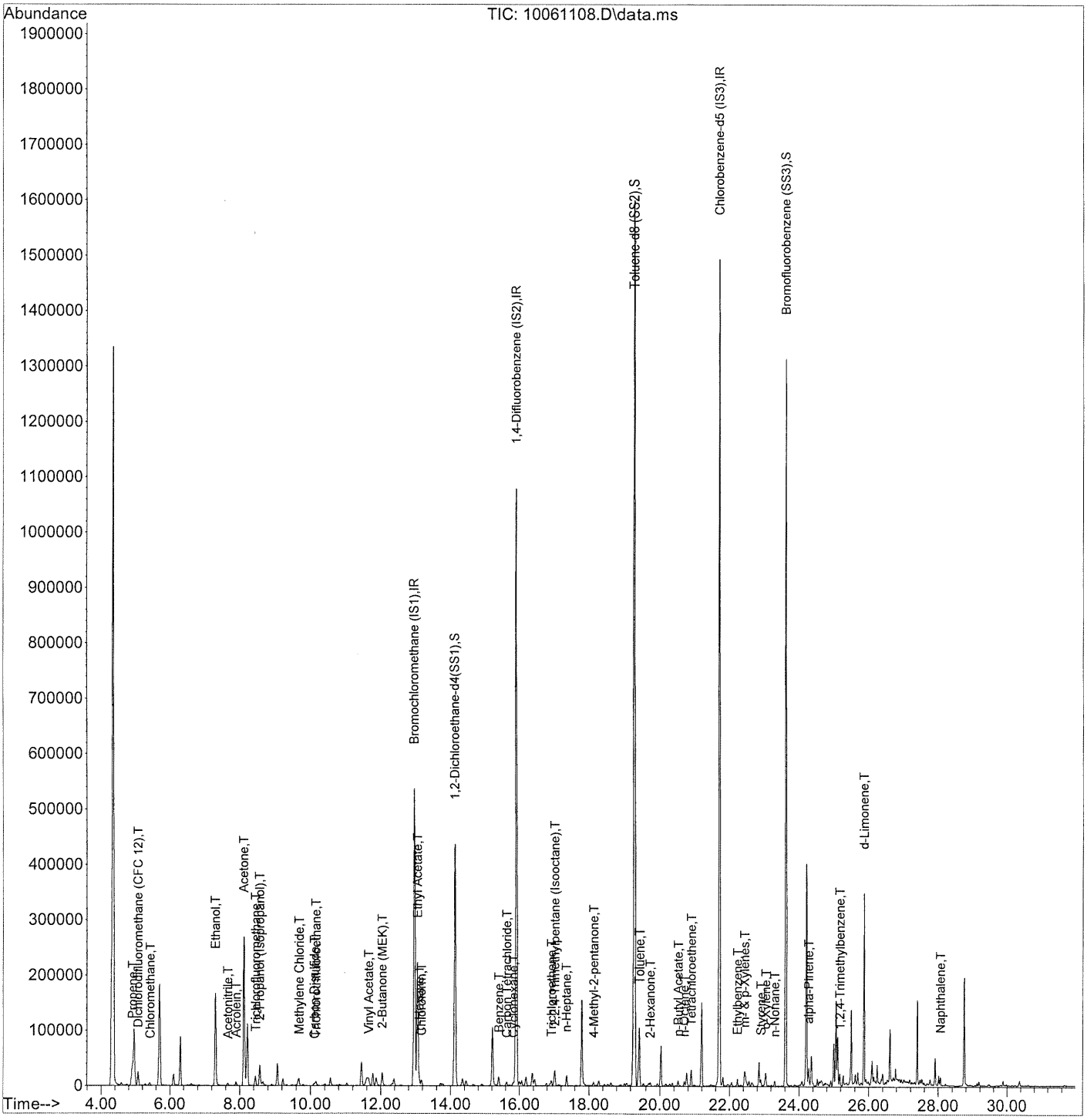
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.86	118	1074	N.D.		
81) 2-Ethyltoluene	24.91	105	3801	N.D.		
82) 1,2,4-Trimethylbenzene	25.17	105	10768	0.168 ng		99
83) n-Decane	25.27	57	6581	0.167 ng		93
84) Benzyl Chloride	25.34	91	1988	N.D.		
85) 1,3-Dichlorobenzene	25.37	146	1277	N.D.		
86) 1,4-Dichlorobenzene	25.45	146	2538	0.064 ng		94
87) sec-Butylbenzene	25.51	105	1358	N.D.		
88) 4-Isopropyltoluene (p-...	25.68	119	6725	0.079 ng		90
89) 1,2,3-Trimethylbenzene	25.69	105	3627	N.D.		
90) 1,2-Dichlorobenzene	25.86	146	953	N.D.		
91) d-Limonene	25.86	68	39130	1.538 ng		98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.77	57	9028	0.234 ng		87
94) 1,2,4-Trichlorobenzene	27.91	180	2261	0.080 ng		97
95) Naphthalene	28.07	128	13789	0.146 ng		98
96) n-Dodecane	28.02	57	6165	0.174 ng		87
97) Hexachlorobutadiene	28.49	225	265	N.D.		
98) Cyclohexanone	22.64	55	4038	0.167 ng	#	85
99) tert-Butylbenzene	25.18	119	1650	N.D.		
100) n-Butylbenzene	26.18	91	2445	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 14:33
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 10:27:24 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 14:33
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 10:27:24 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	284025	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1271768	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	615903	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	421566	24.833	ng		-0.02
Spiked Amount 25.000			Recovery = 99.32%				
57) Toluene-d8 (SS2)	19.29	98	1414080	24.704	ng		-0.02
Spiked Amount 25.000			Recovery = 98.80%				
73) Bromofluorobenzene (SS3)	23.62	174	509593	25.235	ng		-0.01
Spiked Amount 25.000			Recovery = 100.92%				
Target Compounds							Qvalue
2) Propene	4.91	42	15401m	0.677	ng		
3) Dichlorodifluoromethan...	5.07	85	36959	1.315	ng		99
4) Chloromethane	5.42	50	5276	0.224	ng		97
10) Ethanol	7.30	45	245062	18.640	ng		98
11) Acetonitrile	7.66	41	5204	0.170	ng		78
12) Acrolein	7.90	56	7611	0.765	ng		98
13) Acetone	8.11	58	145679	11.581	ng		89
14) Trichlorofluoromethane	8.45	101	18691	0.740	ng		100
15) 2-Propanol (Isopropanol)	8.56	45	64722	1.830	ng		93
19) Methylene Chloride	9.68	84	6685	0.428	ng		82
21) Trichlorotrifluoroethane	10.15	151	4000	0.304	ng		95
22) Carbon Disulfide	10.11	76	8453	0.156	ng		96
26) Vinyl Acetate	11.65	86	4027m	0.910	ng		
27) 2-Butanone (MEK)	12.05	72	9382	0.865	ng	#	44
30) Ethyl Acetate	13.05	61	48631	8.272	ng		81
31) n-Hexane	13.11	57	8774	0.289	ng		97
32) Chloroform	13.17	83	11186	0.488	ng		98
41) Benzene	15.40	78	19681	0.329	ng		99
42) Carbon Tetrachloride	15.64	117	5681	0.307	ng		99
43) Cyclohexane	15.82	84	4087	0.157	ng		84
47) Trichloroethene	16.92	130	4006	0.232	ng		97
49) 2,2,4-Trimethylpentane...	17.02	57	31978	0.434	ng		99
51) n-Heptane	17.36	71	5833	0.329	ng		95
53) 4-Methyl-2-pentanone	18.14	58	2033	0.134	ng	#	58
58) Toluene	19.43	91	98677	1.490	ng		99
59) 2-Hexanone	19.72	43	5504	0.149	ng		84
62) n-Butyl Acetate	20.52	43	8845	0.205	ng		97
63) n-Octane	20.70	57	1668	0.111	ng	#	78
64) Tetrachloroethene	20.90	166	12305	0.595	ng		100
66) Ethylbenzene	22.23	91	12210	0.168	ng		97

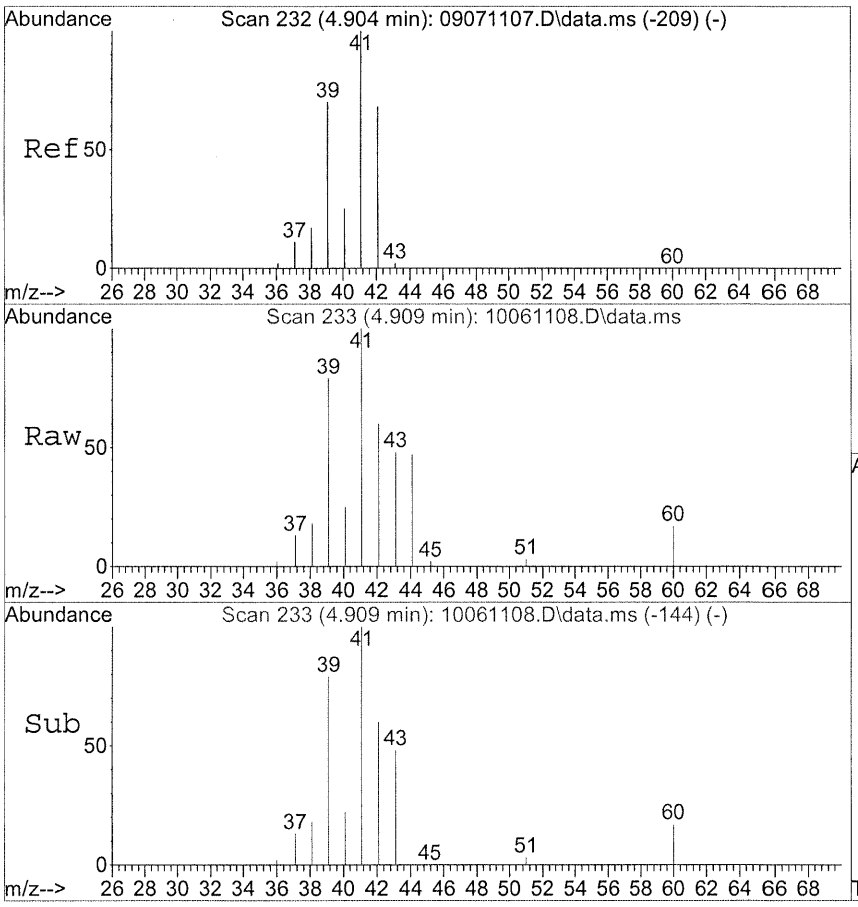
EM 10/7/11

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 14:33
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 10:27:24 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
67) m- & p-Xylenes	22.44	91	26954	0.467	ng		95
69) Styrene	22.91	104	7756	0.172	ng		95
70) o-Xylene	23.05	91	9830	0.162	ng		93
71) n-Nonane	23.31	43	4863	0.123	ng	#	74
75) alpha-Pinene	24.28	93	15156	0.387	ng		95
82) 1,2,4-Trimethylbenzene	25.17	105	11492	0.180	ng		97
91) d-Limonene	25.86	68	93108	3.666	ng		97
95) Naphthalene	28.07	128	13419	0.142	ng		98

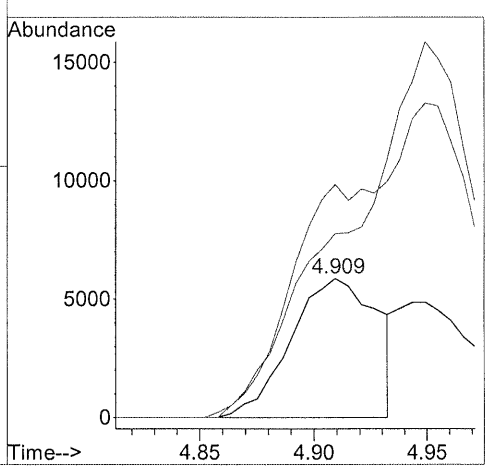
(#) = qualifier out of range (m) = manual integration (+) = signals summed

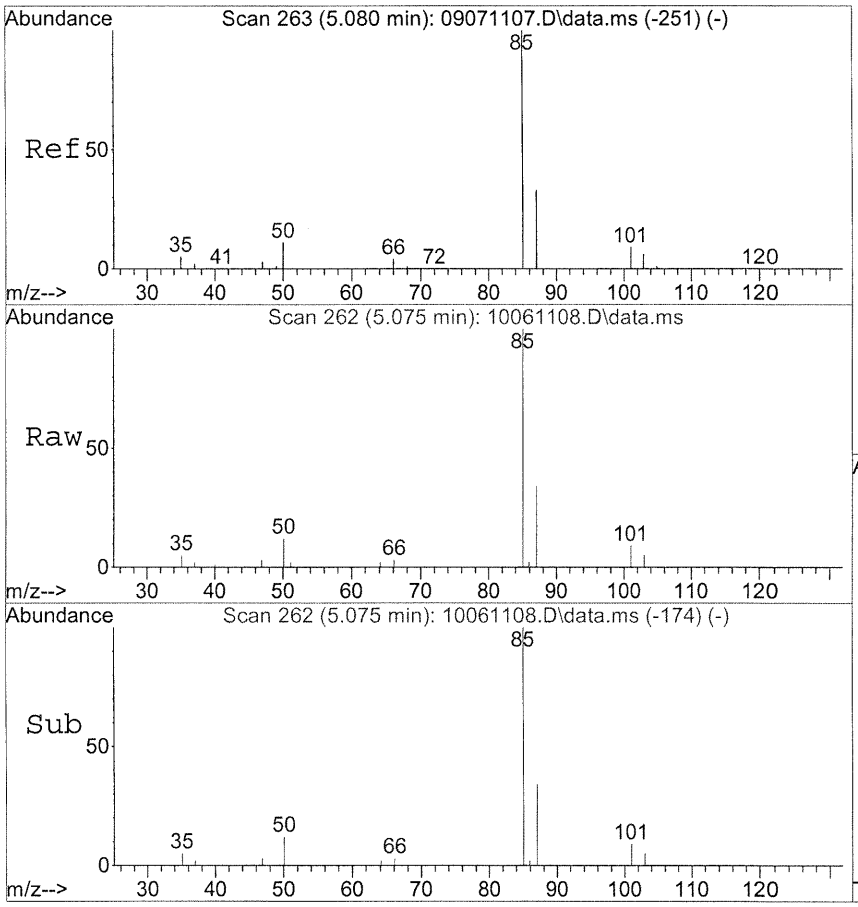


#2
Propene
Concen: 0.68 ng m
RT: 4.91 min Scan# 233
Delta R.T. 0.005 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 42 Resp: 15401

Ion	Ratio	Lower	Upper
42	100		
39	0.0	88.8	128.8#
41	0.0	126.1	166.1#

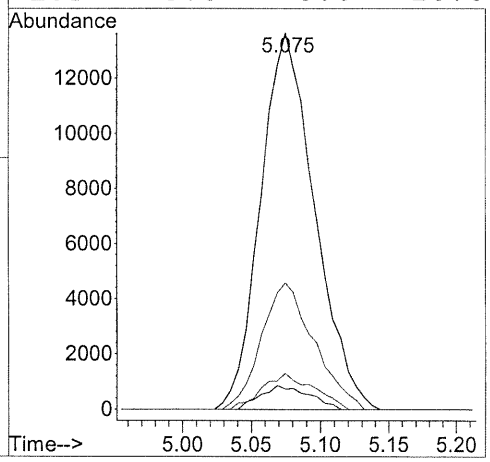


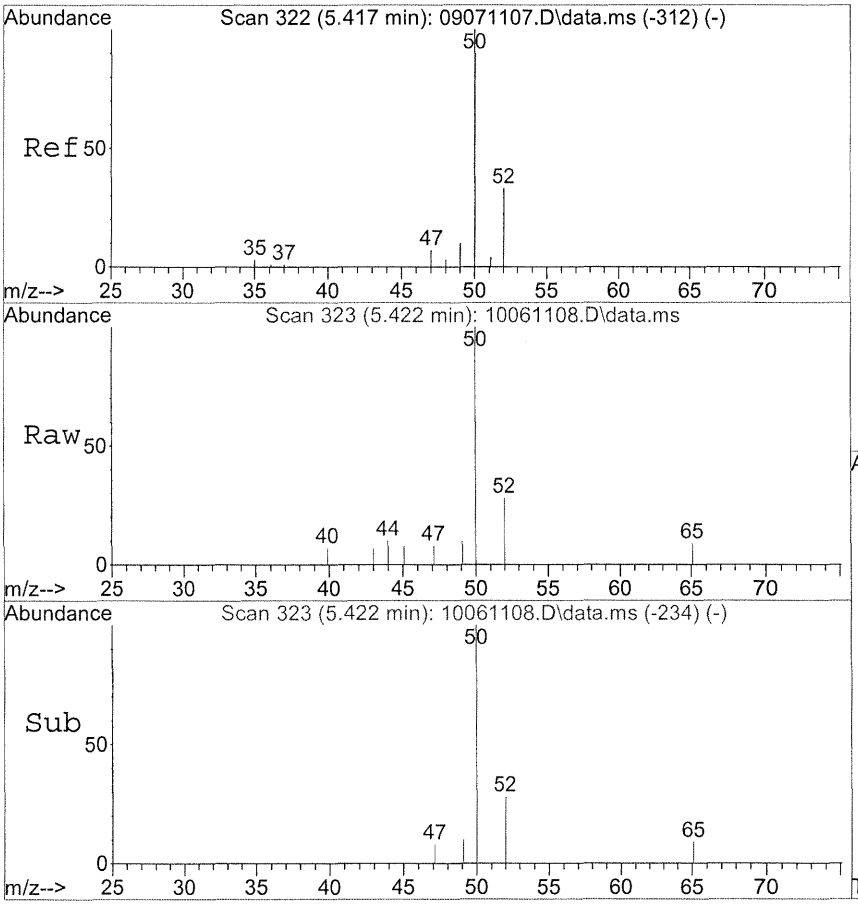


#3
Dichlorodifluoromethane (CFC
Concen: 1.31 ng
RT: 5.07 min Scan# 262
Delta R.T. -0.000 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 85 Resp: 36959

Ion	Ratio	Lower	Upper
85	100		
87	32.6	13.0	53.0
101	8.9	0.0	29.1
103	5.6	0.0	26.0

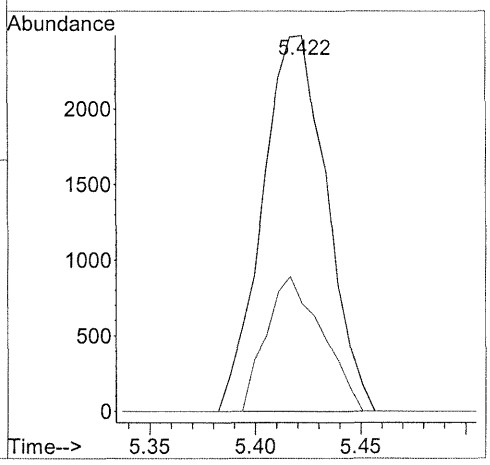


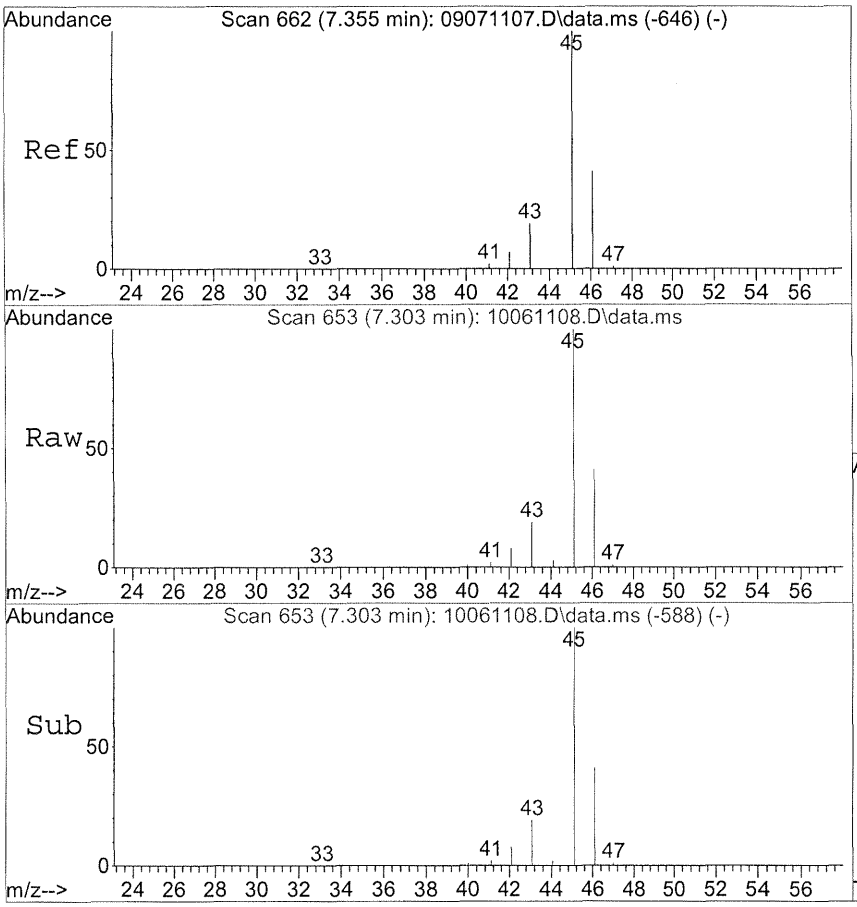


#4
Chloromethane
Concen: 0.22 ng
RT: 5.42 min Scan# 323
Delta R.T. 0.005 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 50 Resp: 5276

Ion	Ratio	Lower	Upper
50	100		
52	31.3	13.1	53.1

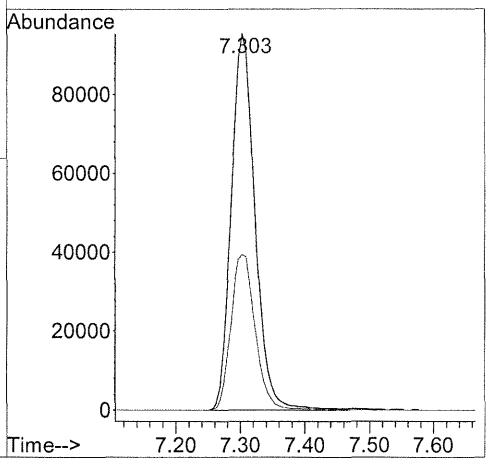


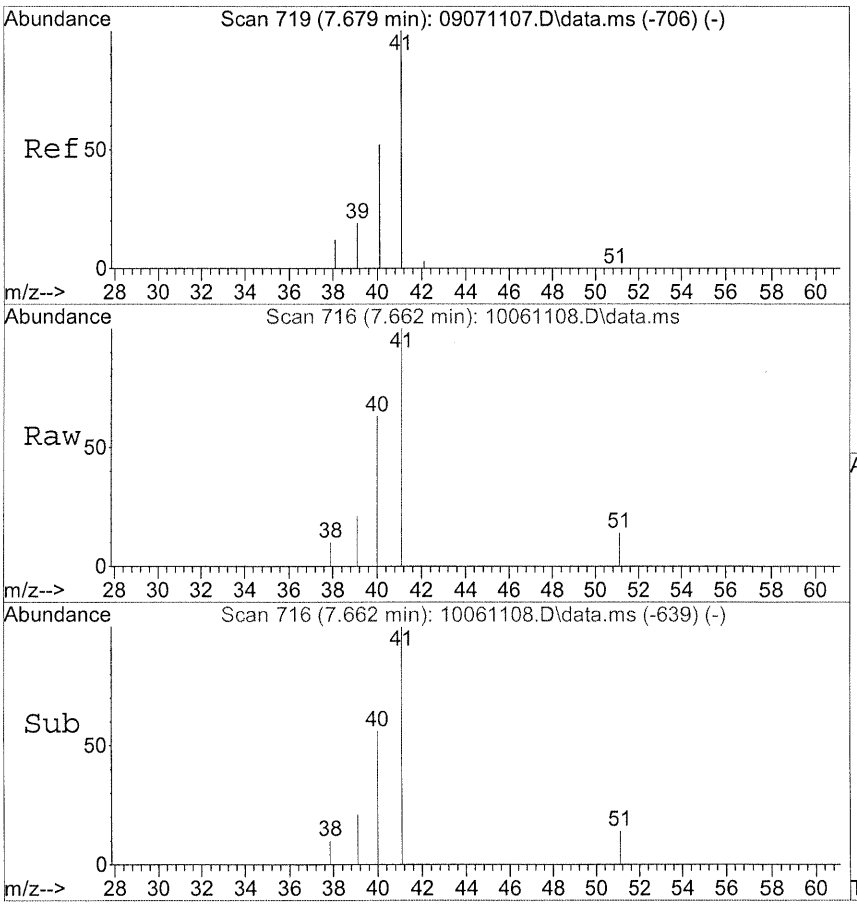


#10
Ethanol
Concen: 18.64 ng
RT: 7.30 min Scan# 653
Delta R.T. -0.131 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 45 Resp: 245062

Ion	Ratio	Lower	Upper
45	100		
46	41.9	20.7	60.7

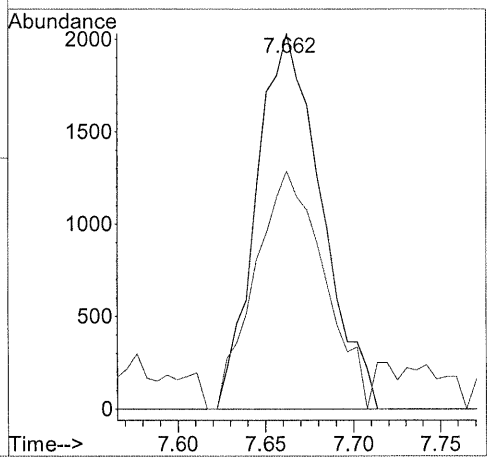


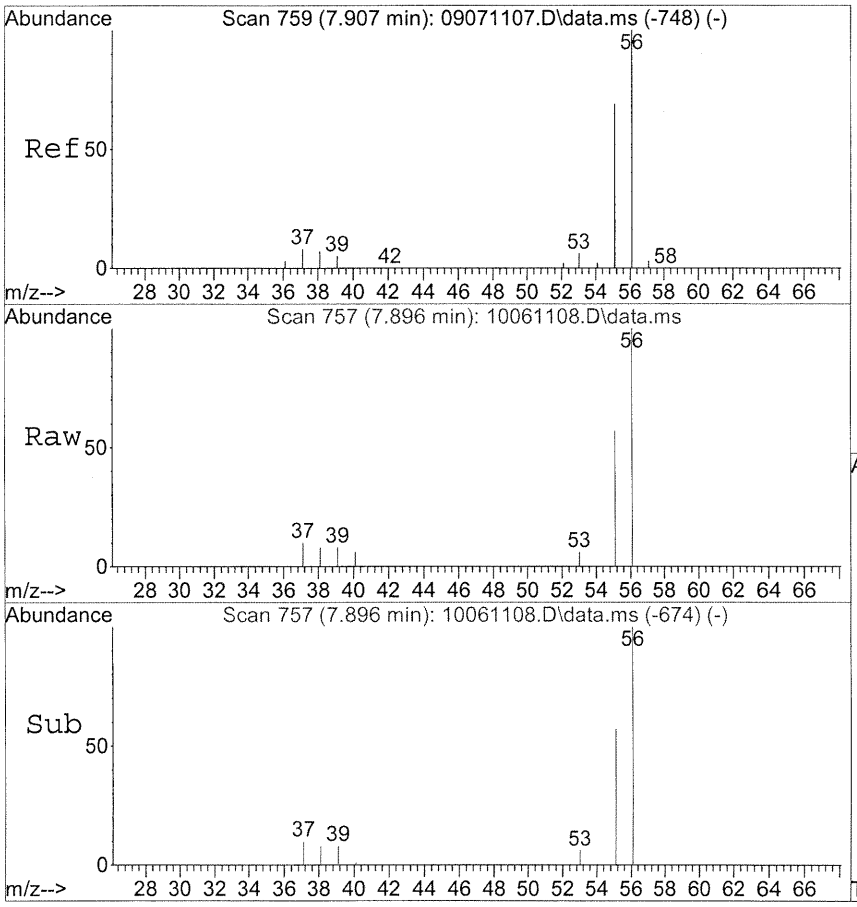


#11
Acetonitrile
Concen: 0.17 ng
RT: 7.66 min Scan# 716
Delta R.T. -0.063 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 41 Resp: 5204

Ion	Ratio	Lower	Upper
41	100		
40	67.2	31.5	71.5

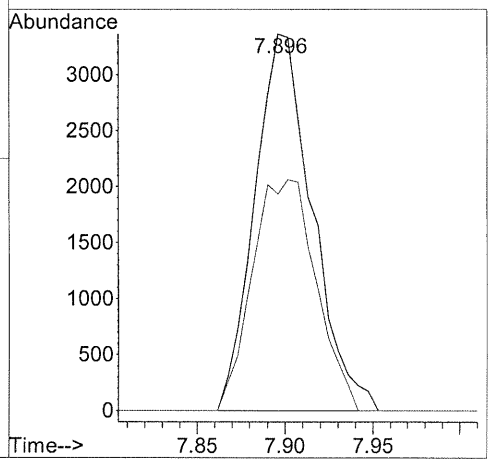


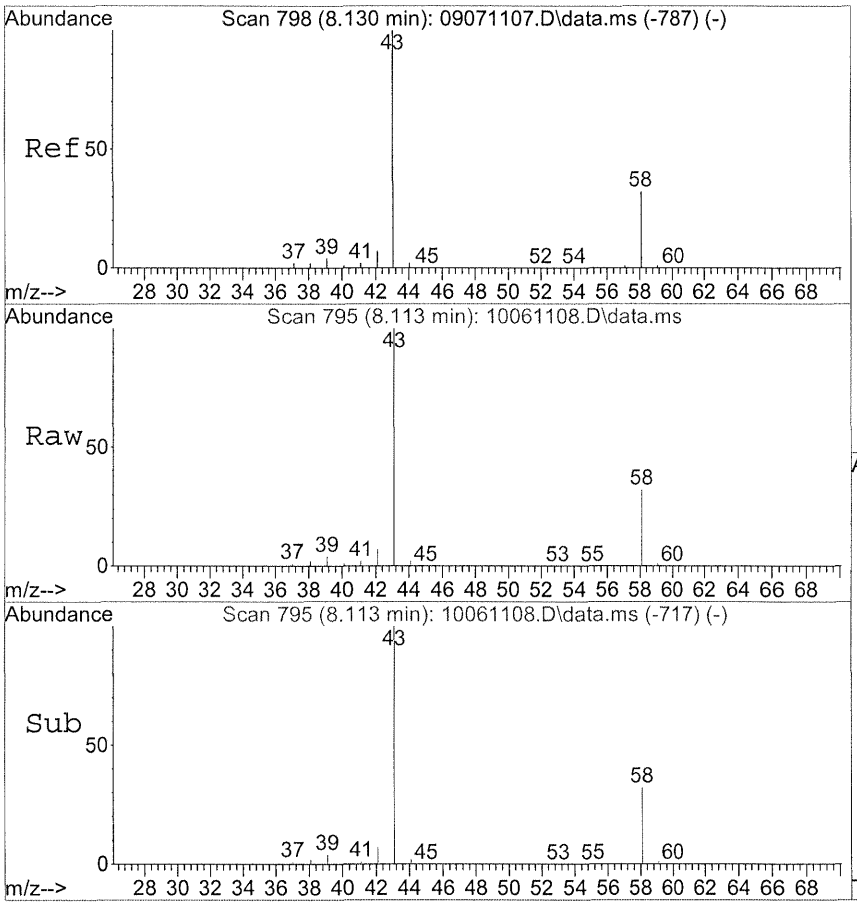


#12
Acrolein
Concen: 0.77 ng
RT: 7.90 min Scan# 757
Delta R.T. -0.029 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 56 Resp: 7611

Ion	Ratio	Lower	Upper
56	100		
55	68.1	50.1	90.1

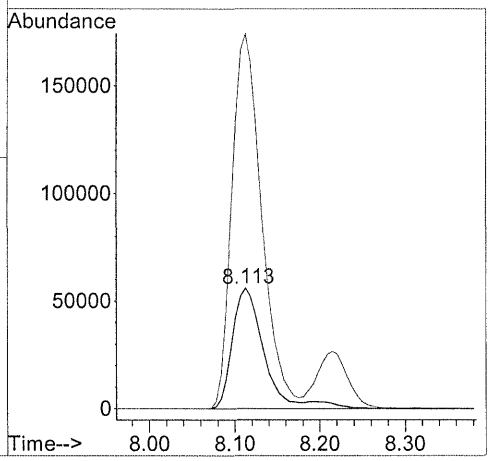


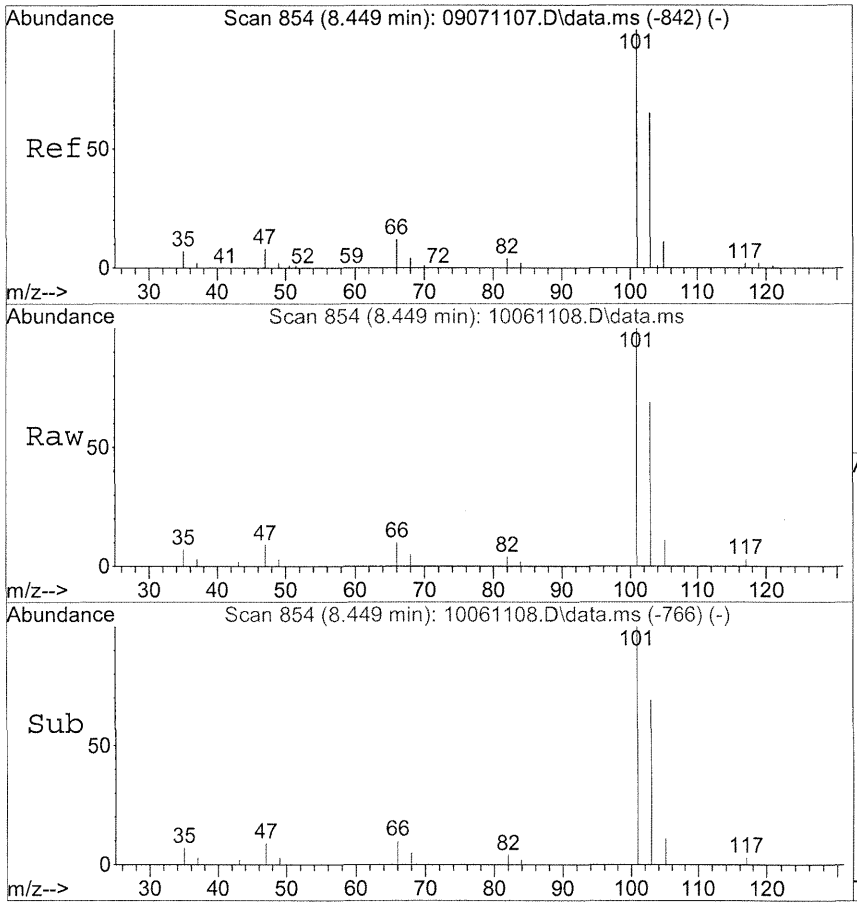


#13
Acetone
Concen: 11.58 ng
RT: 8.11 min Scan# 795
Delta R.T. -0.057 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 58 Resp: 145679

Ion	Ratio	Lower	Upper
58	100		
43	290.7	283.8	343.8

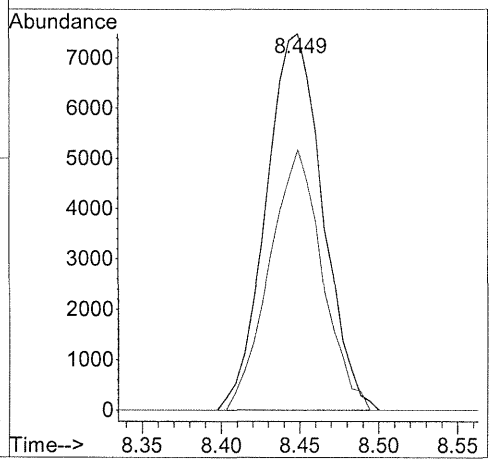


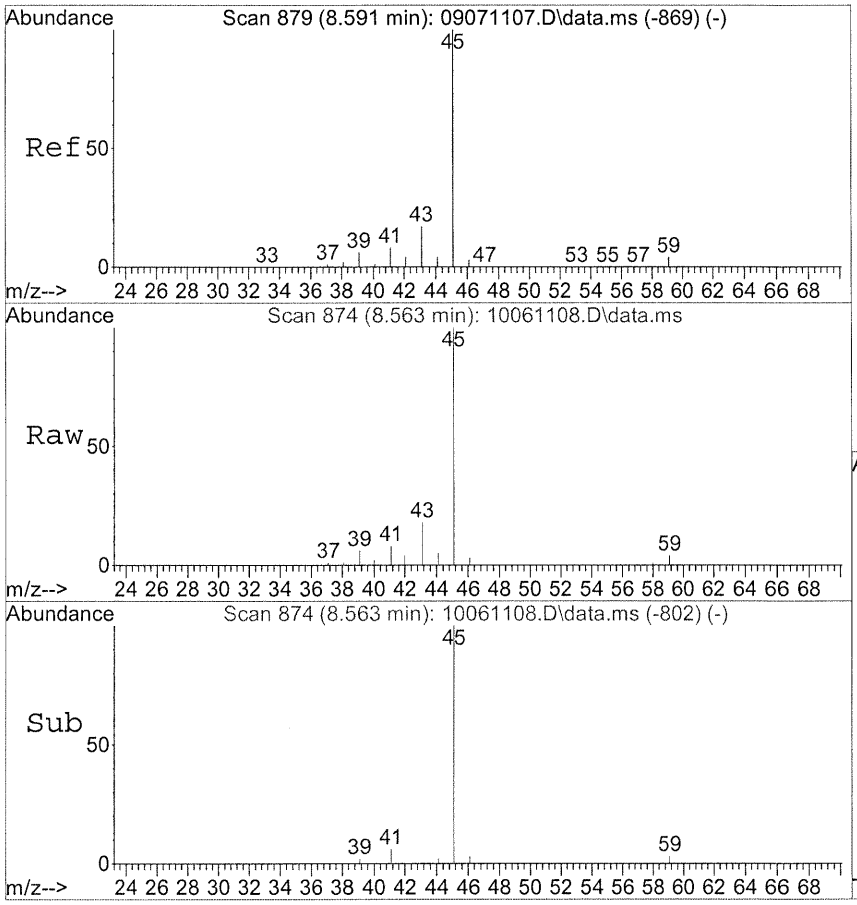


#14
Trichlorofluoromethane
Concen: 0.74 ng
RT: 8.45 min Scan# 854
Delta R.T. -0.000 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion:101 Resp: 18691

Ion	Ratio	Lower	Upper
101	100		
103	64.7	44.4	84.4

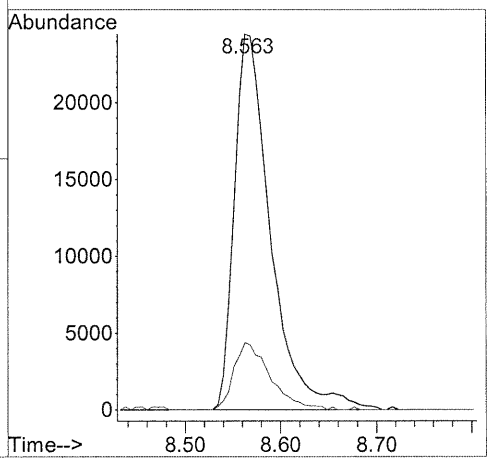


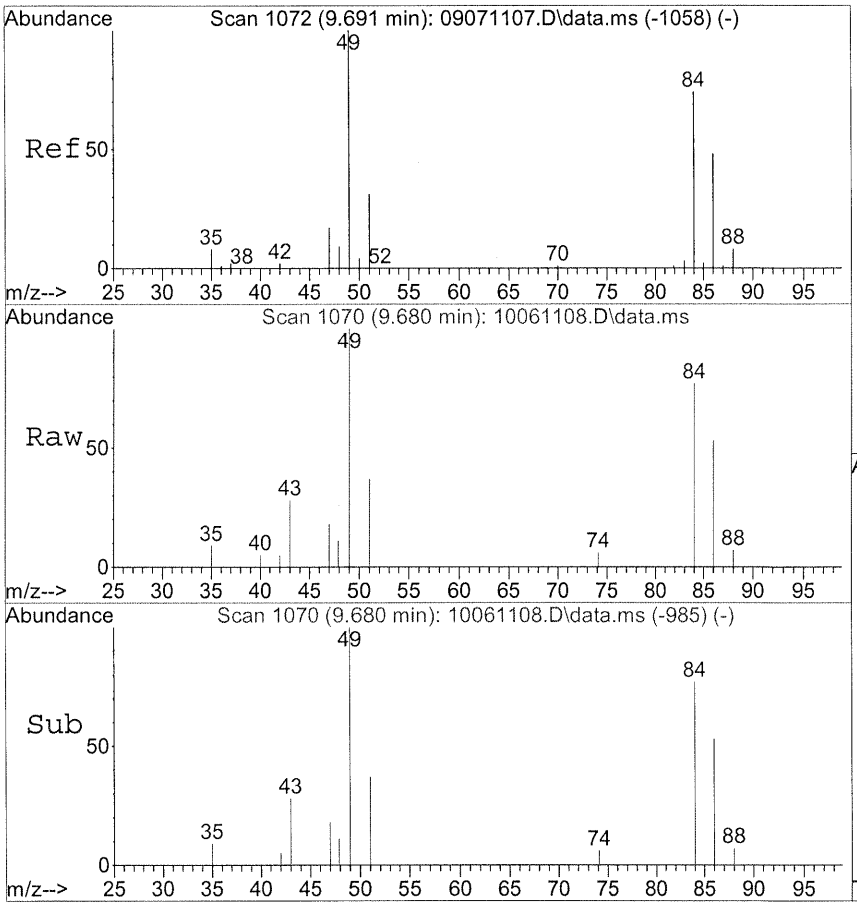


#15
2-Propanol (Isopropanol)
Concen: 1.83 ng
RT: 8.56 min Scan# 874
Delta R.T. -0.091 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 45 Resp: 64722

Ion	Ratio	Lower	Upper
45	100		
43	18.0	1.4	41.4

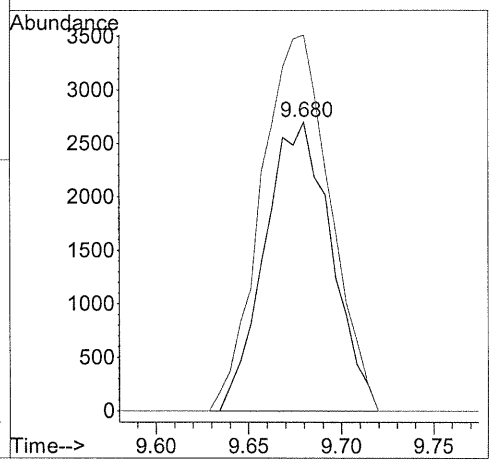


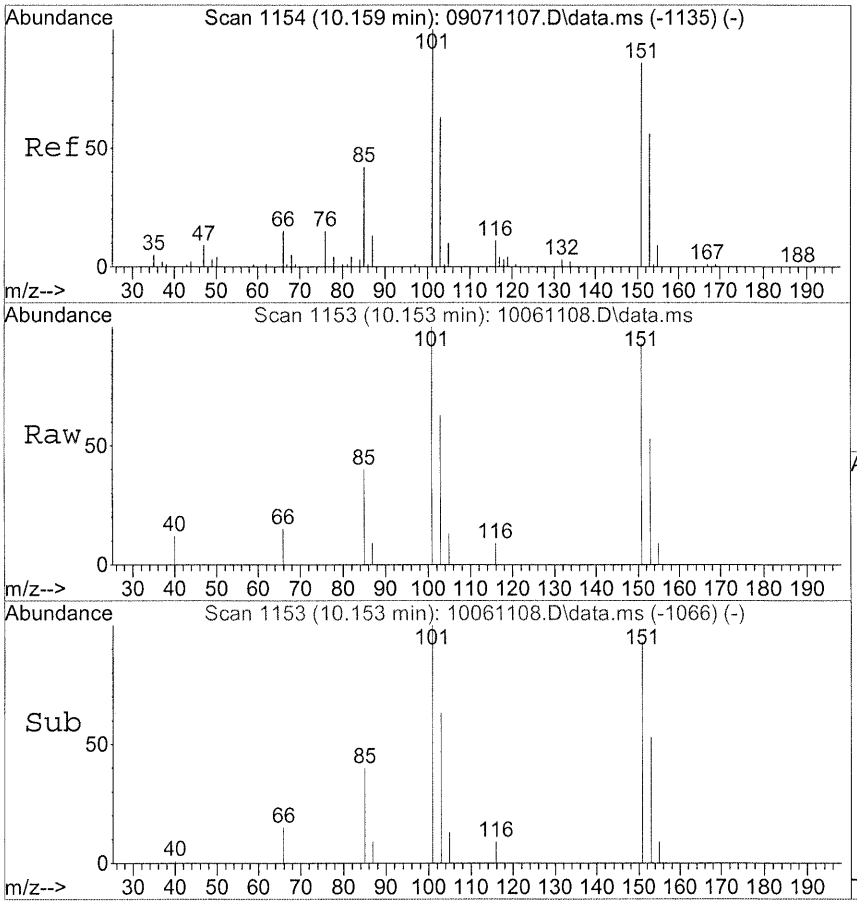


#19
Methylene Chloride
Concen: 0.43 ng
RT: 9.68 min Scan# 1070
Delta R.T. -0.017 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 84 Resp: 6685

Ion	Ratio	Lower	Upper
84	100		
49	135.2	90.4	140.4

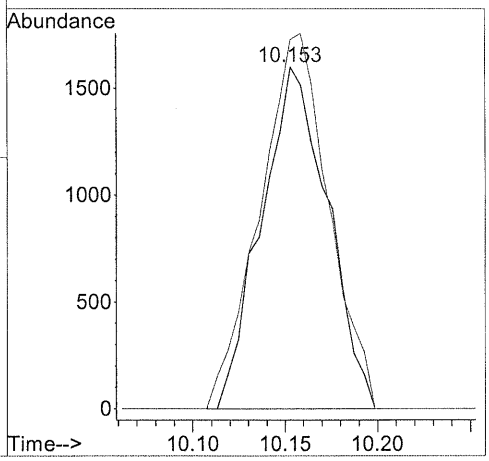


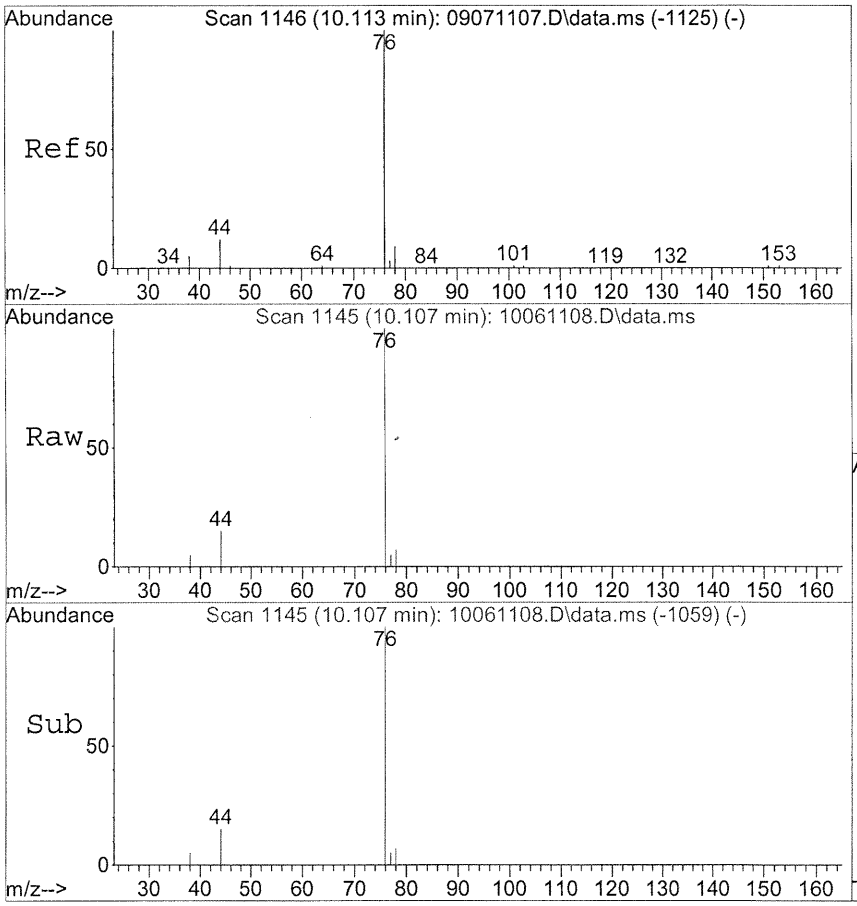


#21
Trichlorotrifluoroethane
Concen: 0.30 ng
RT: 10.15 min Scan# 1153
Delta R.T. -0.006 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion:151 Resp: 4000

Ion	Ratio	Lower	Upper
151	100		
101	113.9	99.7	139.7

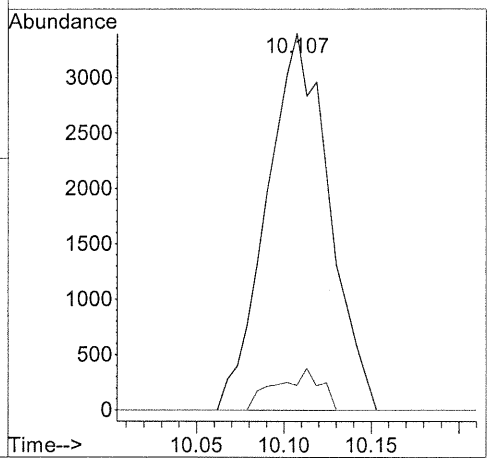


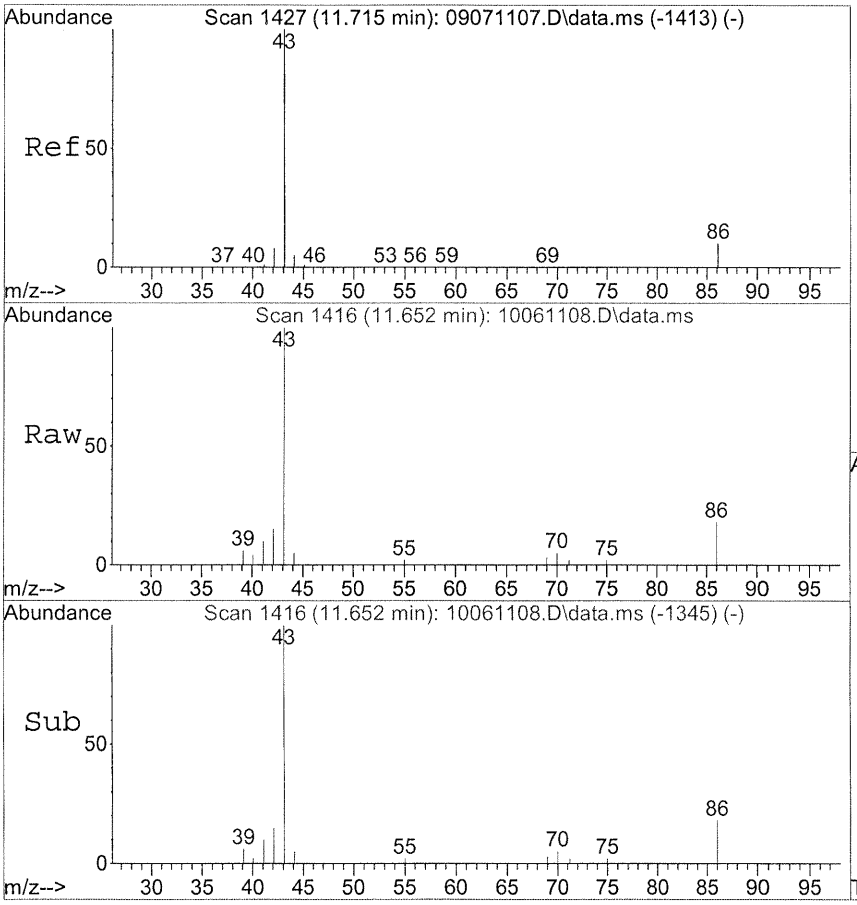


#22
Carbon Disulfide
Concen: 0.16 ng
RT: 10.11 min Scan# 1145
Delta R.T. -0.012 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 76 Resp: 8453

Ion	Ratio	Lower	Upper
76	100		
78	7.8	0.0	29.4

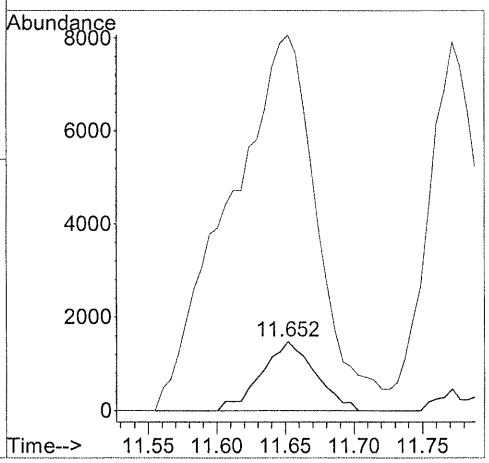


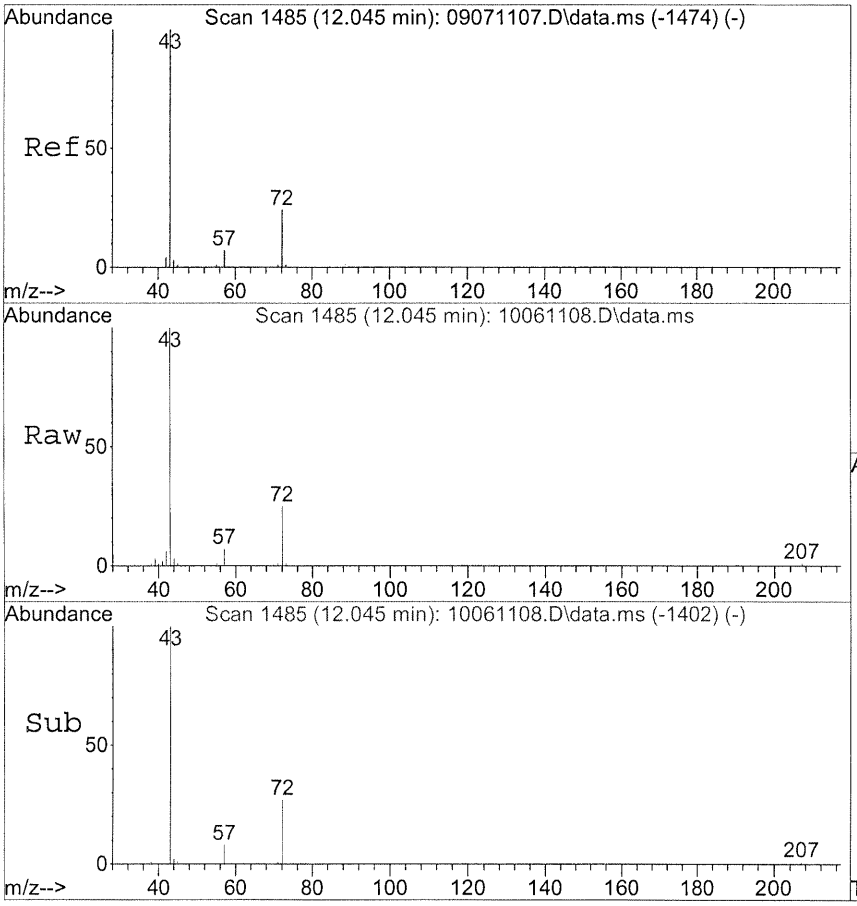


#26
Vinyl Acetate
Concen: 0.91 ng m
RT: 11.65 min Scan# 1416
Delta R.T. -0.097 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 86 Resp: 4027

Ion	Ratio	Lower	Upper
86	100		
43	508.9	825.7	865.7#

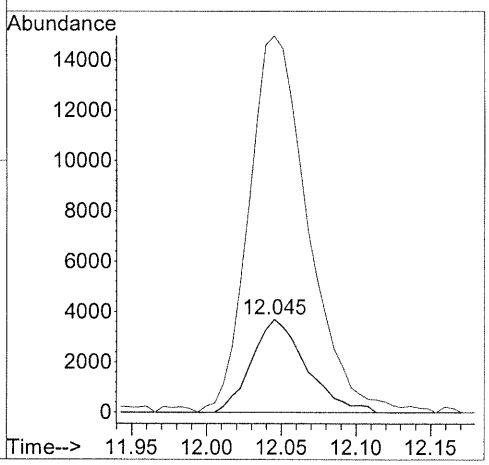


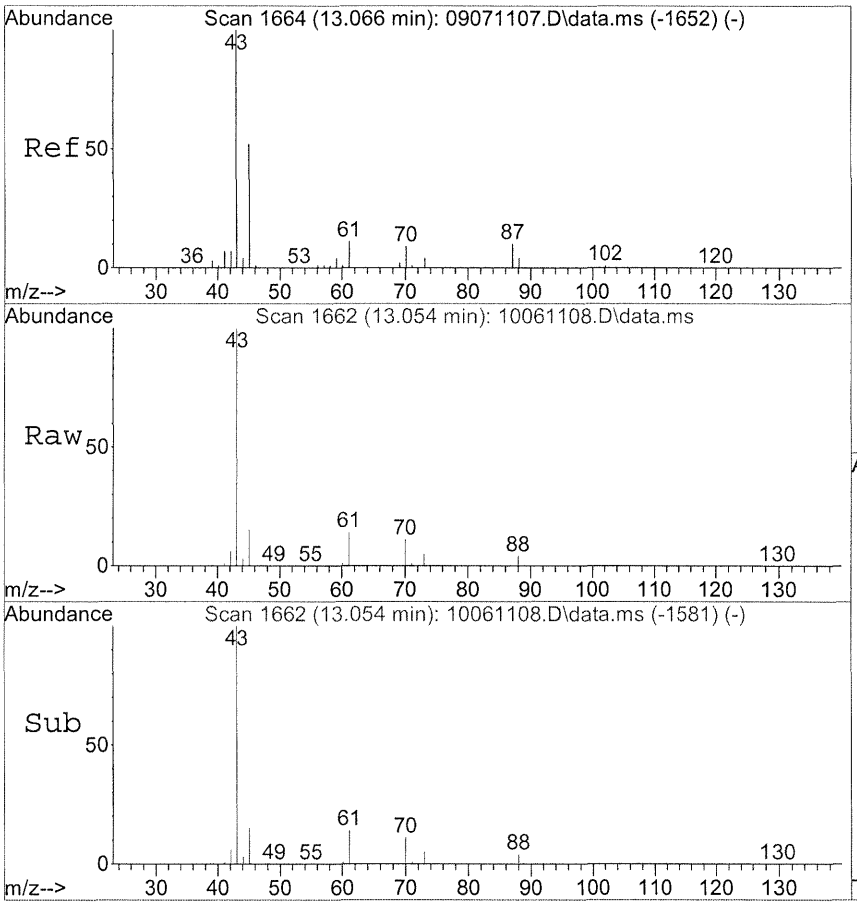


#27
2-Butanone (MEK)
Concen: 0.87 ng
RT: 12.05 min Scan# 1485
Delta R.T. -0.029 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 72 Resp: 9382

Ion	Ratio	Lower	Upper
72	100		
43	439.6	304.7	344.7#

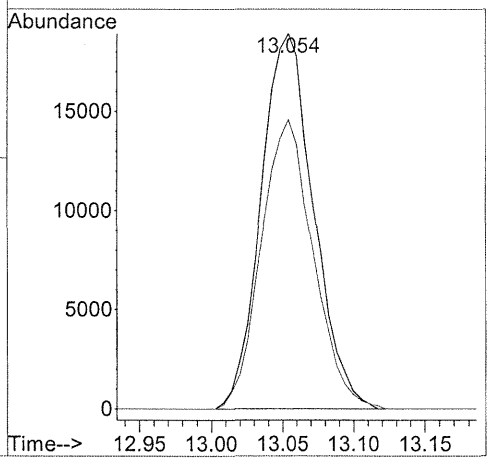


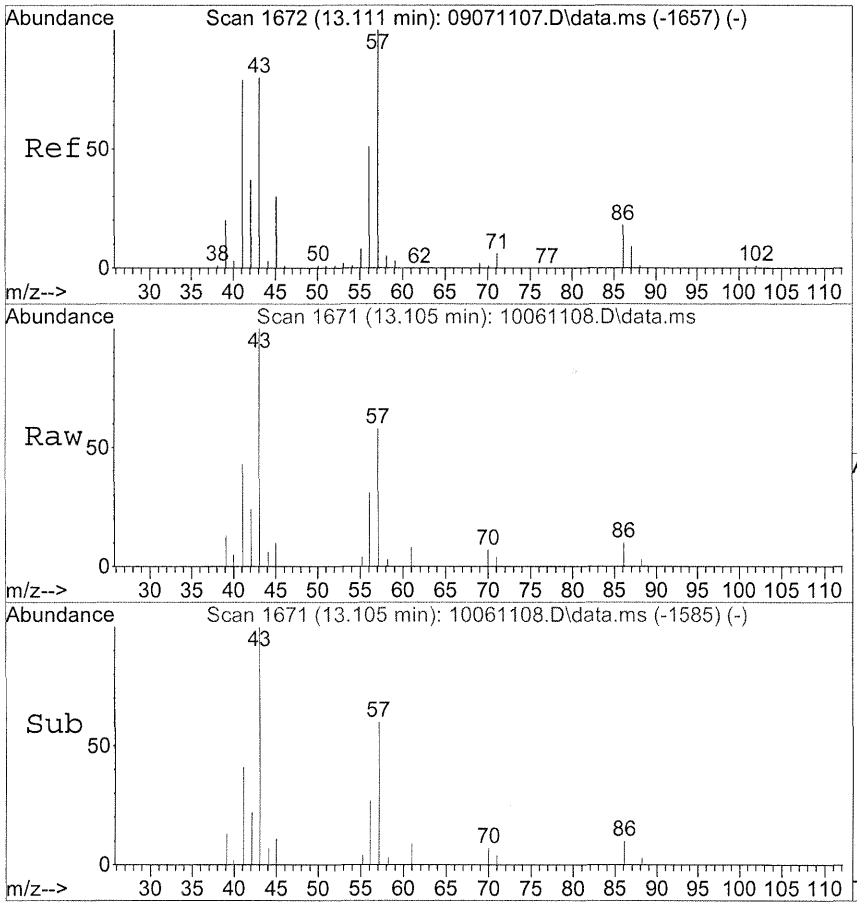


#30
Ethyl Acetate
Concen: 8.27 ng
RT: 13.05 min Scan# 1662
Delta R.T. -0.040 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 61 Resp: 48631

Ion	Ratio	Lower	Upper
61	100		
70	76.5	75.3	115.3

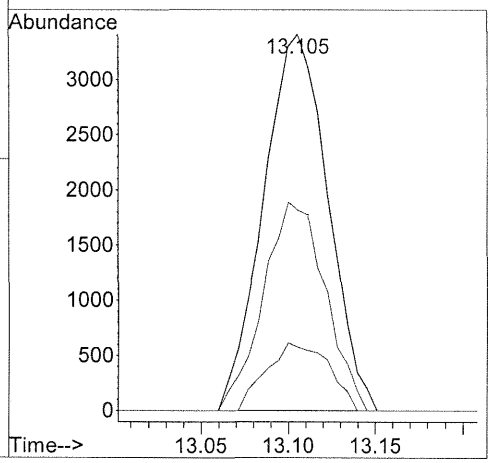


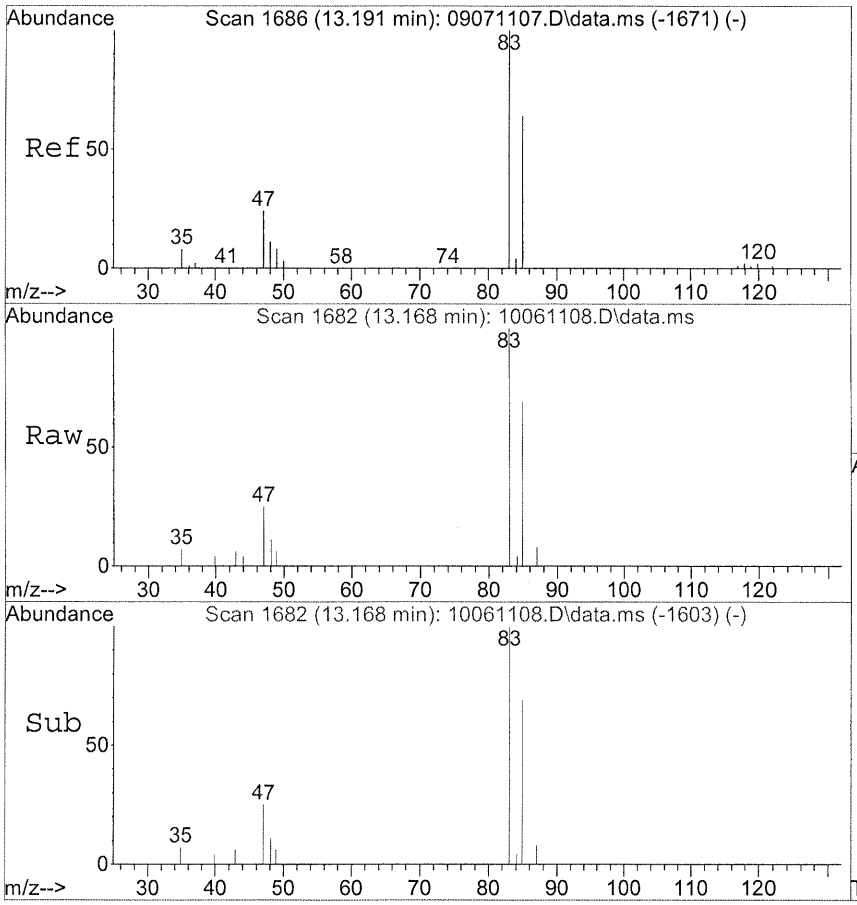


#31
n-Hexane
Concen: 0.29 ng
RT: 13.11 min Scan# 1671
Delta R.T. -0.012 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 57 Resp: 8774

Ion	Ratio	Lower	Upper
57	100		
56	53.4	41.8	62.8
86	17.4	17.0	25.4

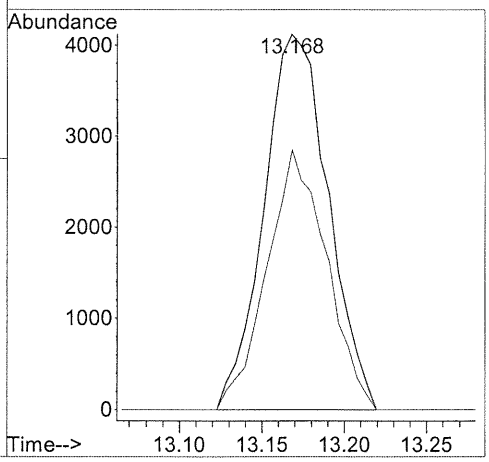


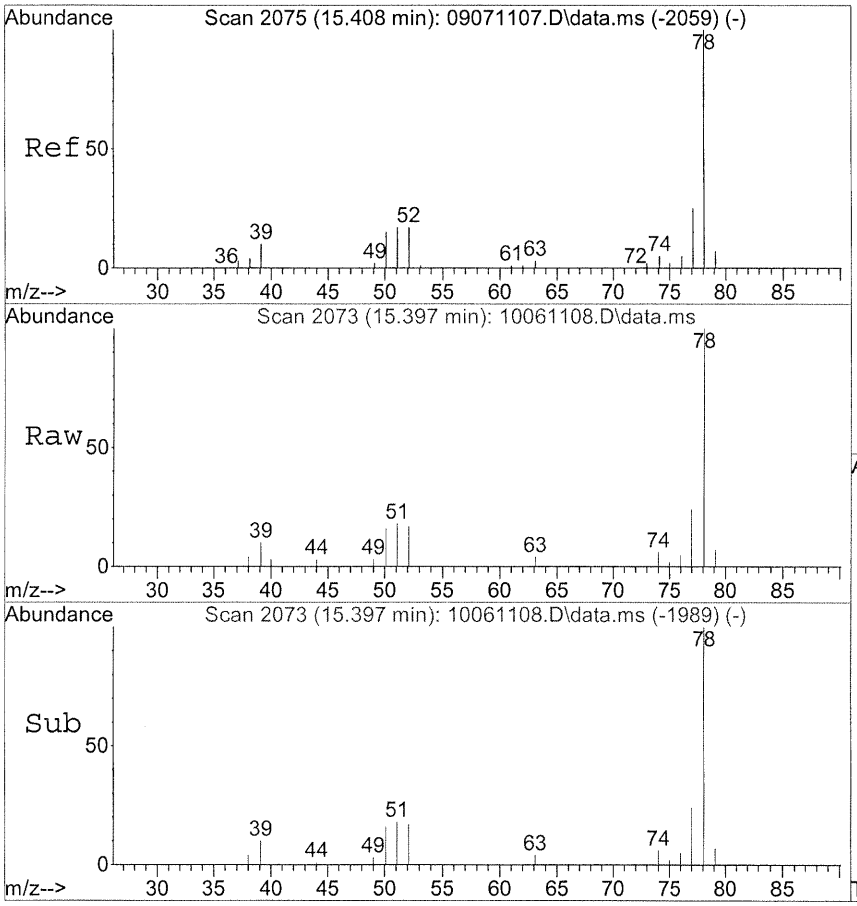


#32
Chloroform
Concen: 0.49 ng
RT: 13.17 min Scan# 1682
Delta R.T. -0.052 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 83 Resp: 11186

Ion	Ratio	Lower	Upper
83	100		
85	64.0	45.3	85.3

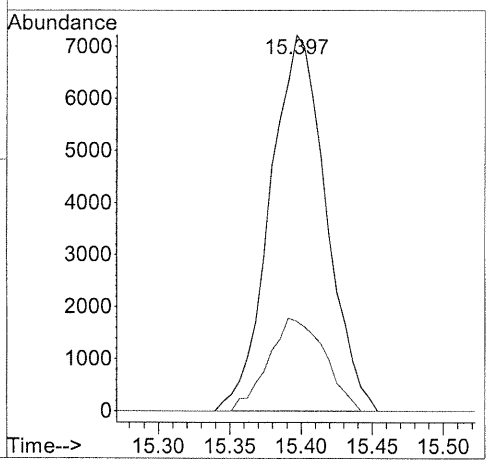


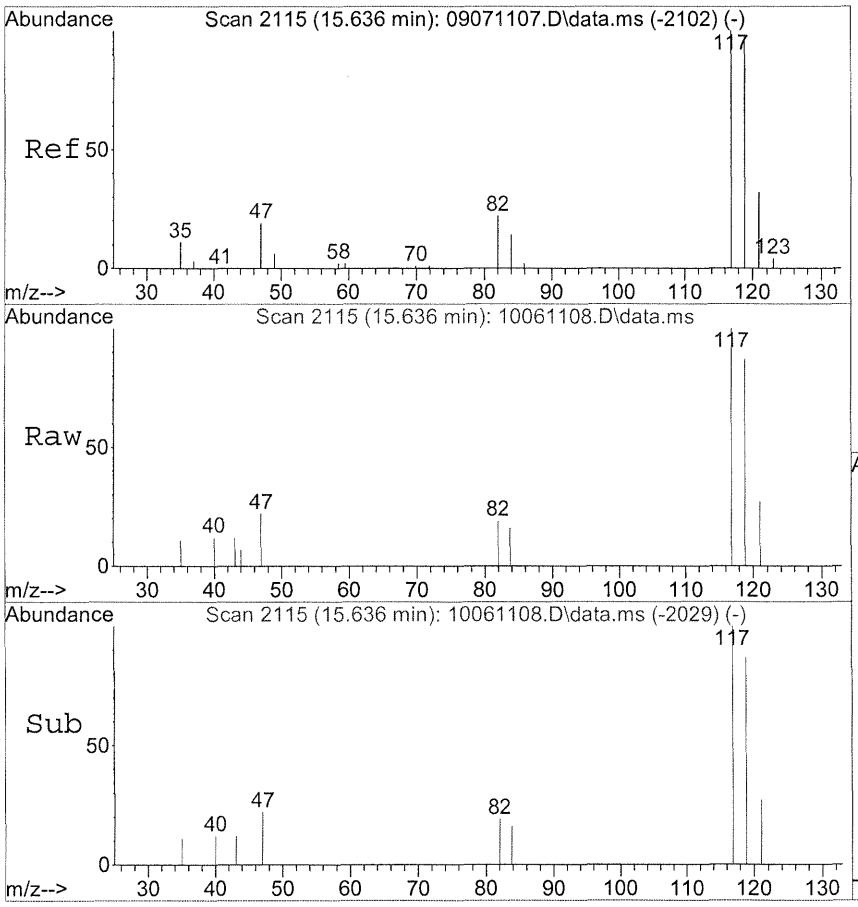


#41
Benzene
Concen: 0.33 ng
RT: 15.40 min Scan# 2073
Delta R.T. -0.023 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 78 Resp: 19681

Ion	Ratio	Lower	Upper
78	100		
77	24.7	4.0	44.0

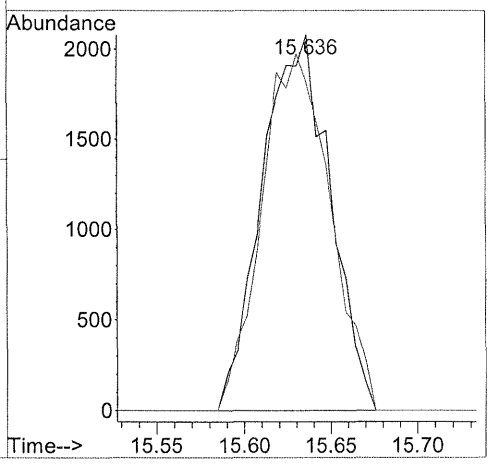


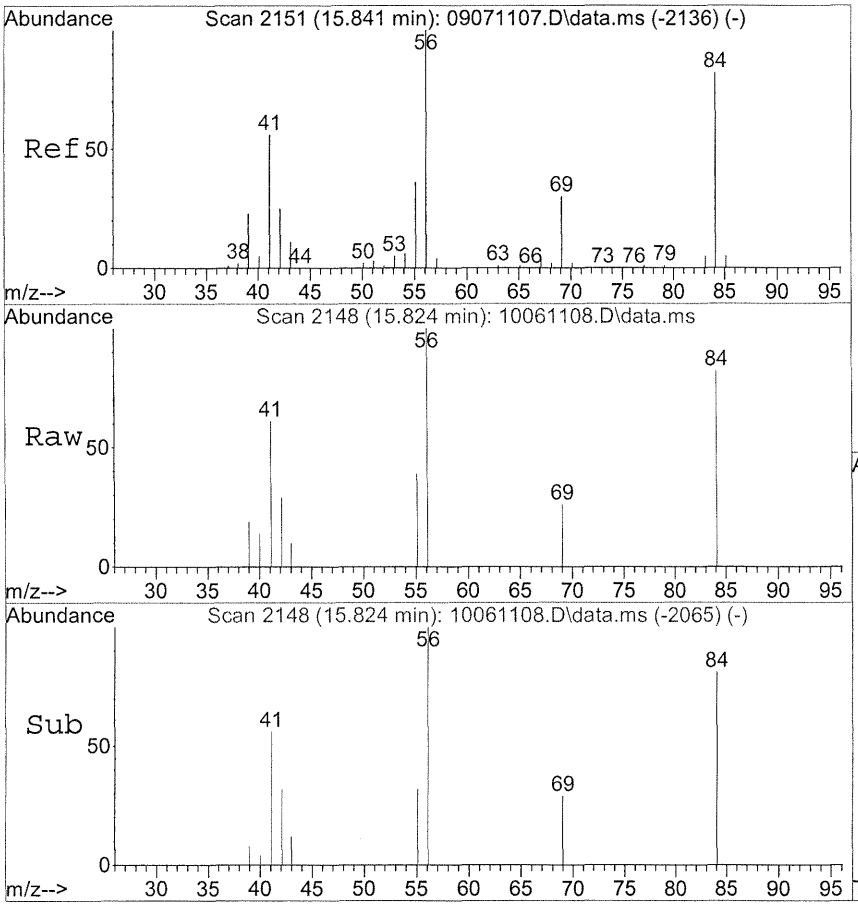


#42
Carbon Tetrachloride
Concen: 0.31 ng
RT: 15.64 min Scan# 2115
Delta R.T. -0.012 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion:117 Resp: 5681

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.0	117.0

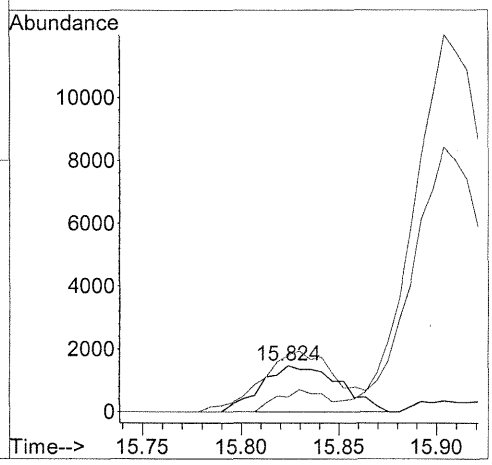


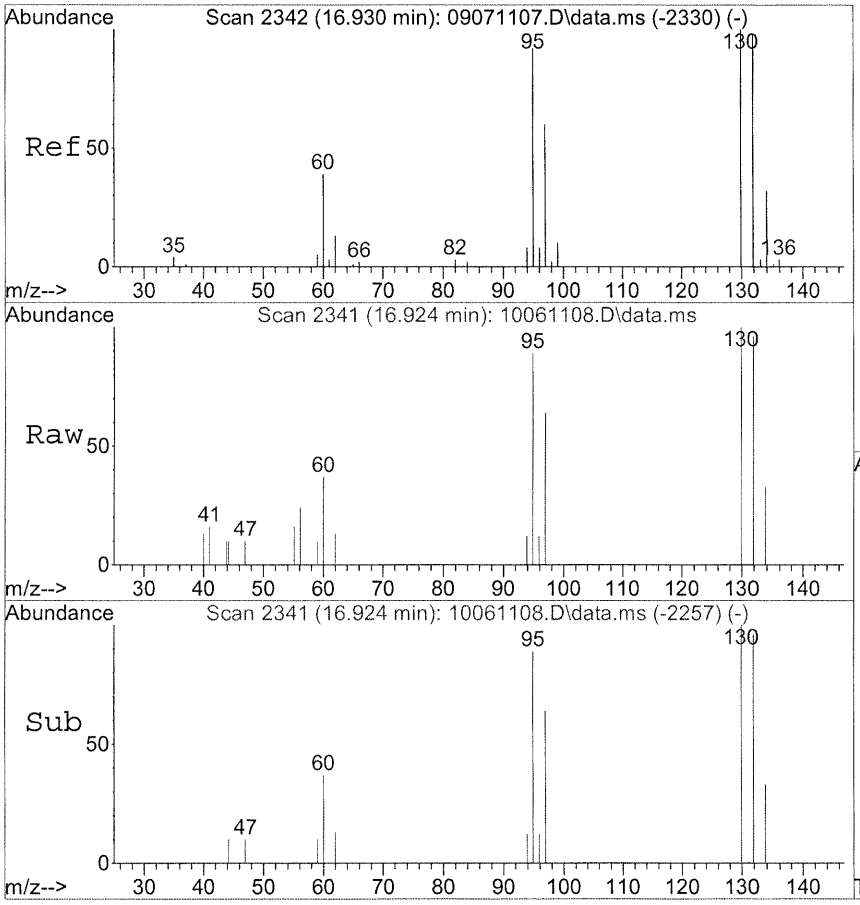


#43
Cyclohexane
Concen: 0.16 ng
RT: 15.82 min Scan# 2148
Delta R.T. -0.029 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 84 Resp: 4087

Ion	Ratio	Lower	Upper
84	100		
69	31.7	16.9	56.9
56	127.3	87.7	127.7

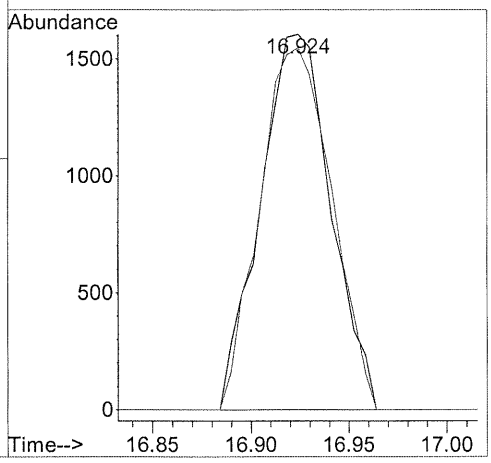


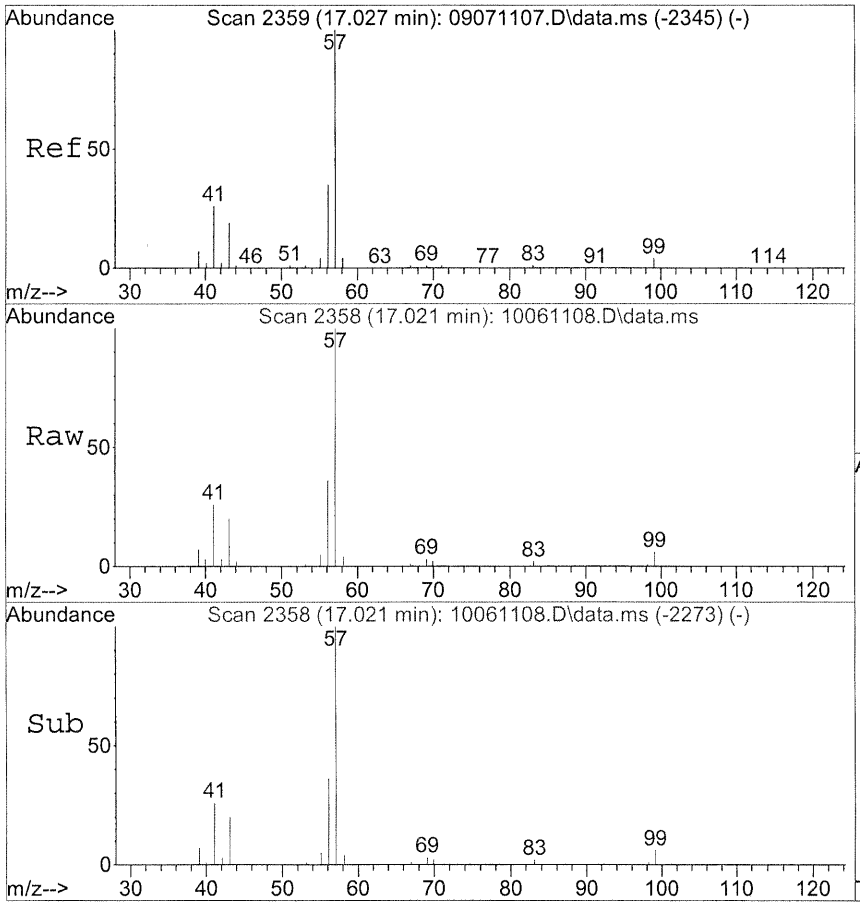


#47
Trichloroethene
Concen: 0.23 ng
RT: 16.92 min Scan# 2341
Delta R.T. -0.023 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion:130 Resp: 4006

Ion	Ratio	Lower	Upper
130	100		
132	99.0	75.8	115.8

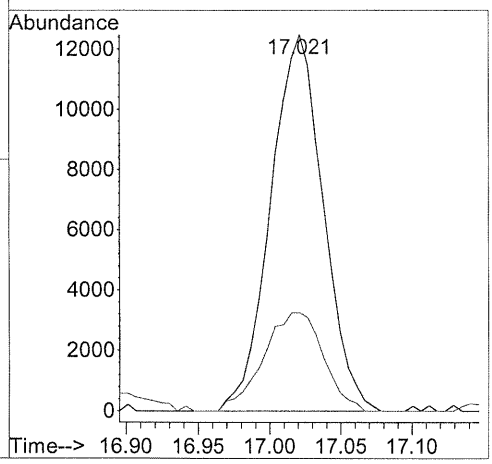


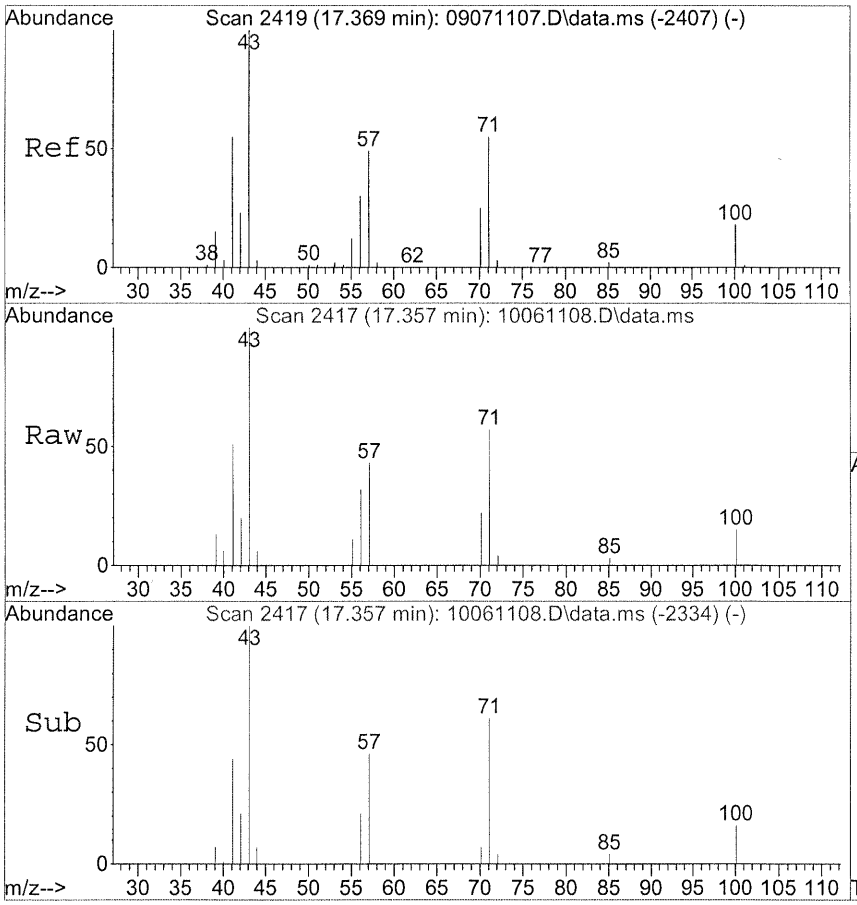


#49
2,2,4-Trimethylpentane (Isooc
Concen: 0.43 ng
RT: 17.02 min Scan# 2358
Delta R.T. -0.017 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 57 Resp: 31978

Ion	Ratio	Lower	Upper
57	100		
41	29.6	10.2	50.2

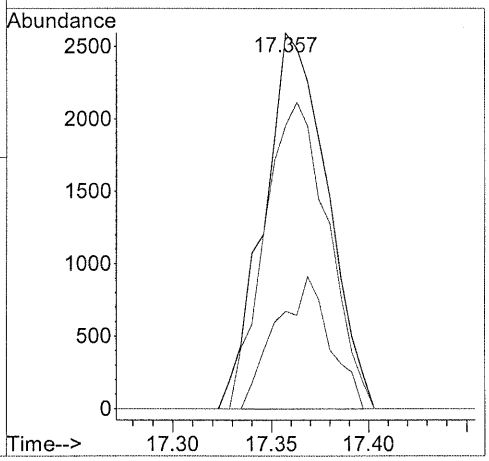


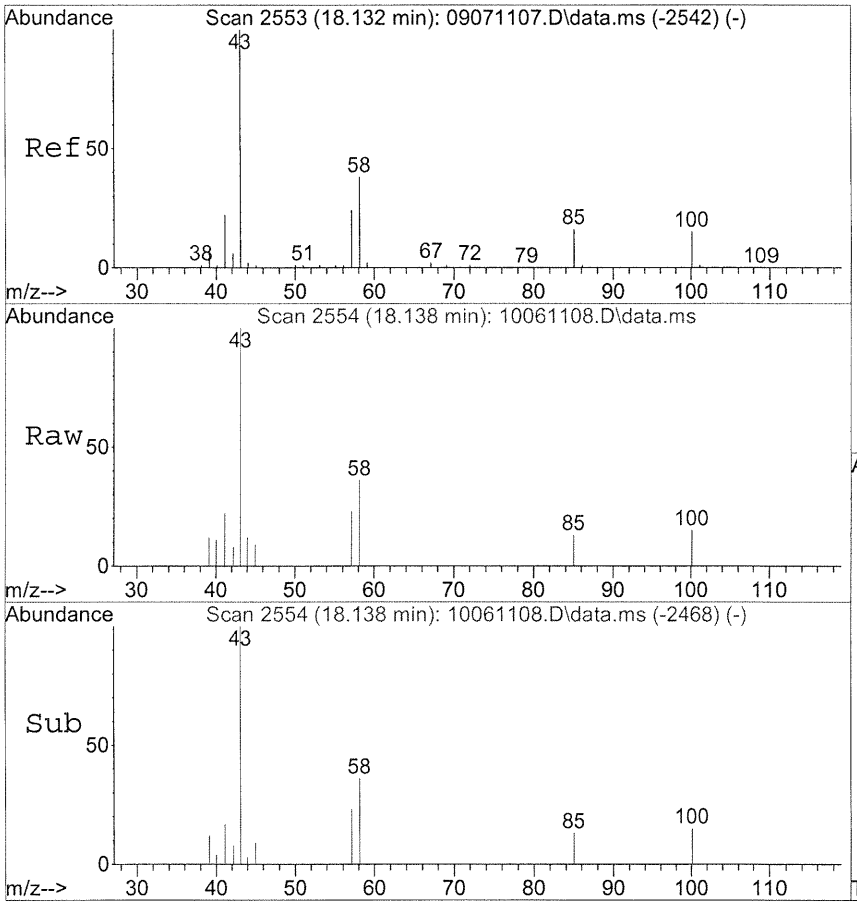


#51
n-Heptane
Concen: 0.33 ng
RT: 17.36 min Scan# 2417
Delta R.T. -0.029 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 71 Resp: 5833

Ion	Ratio	Lower	Upper
71	100		
57	82.1	59.7	99.7
100	30.0	15.2	55.2

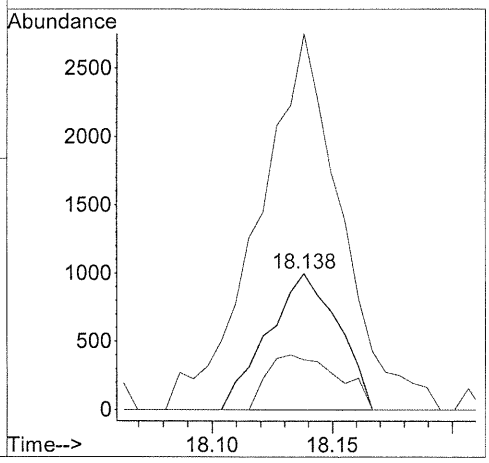


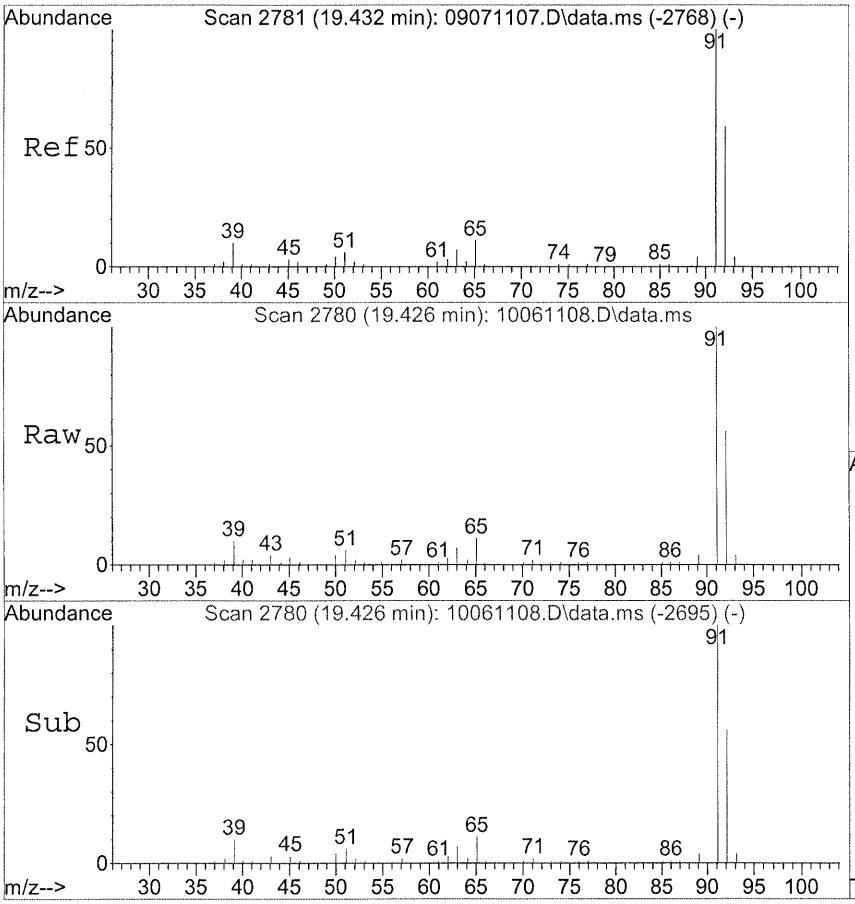


#53
4-Methyl-2-pentanone
Concen: 0.13 ng
RT: 18.14 min Scan# 2554
Delta R.T. -0.012 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 58 Resp: 2033

Ion	Ratio	Lower	Upper
58	100		
43	325.8	195.7	293.5#
85	40.4	43.7	65.5#

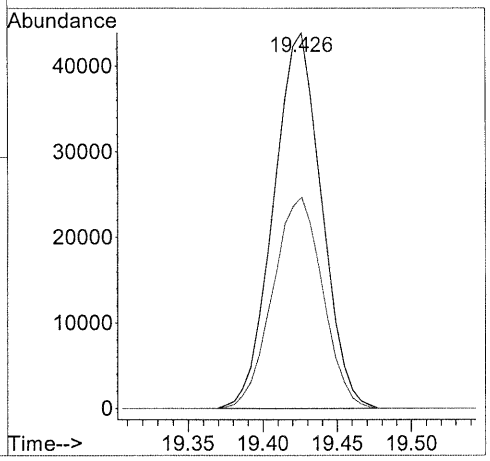


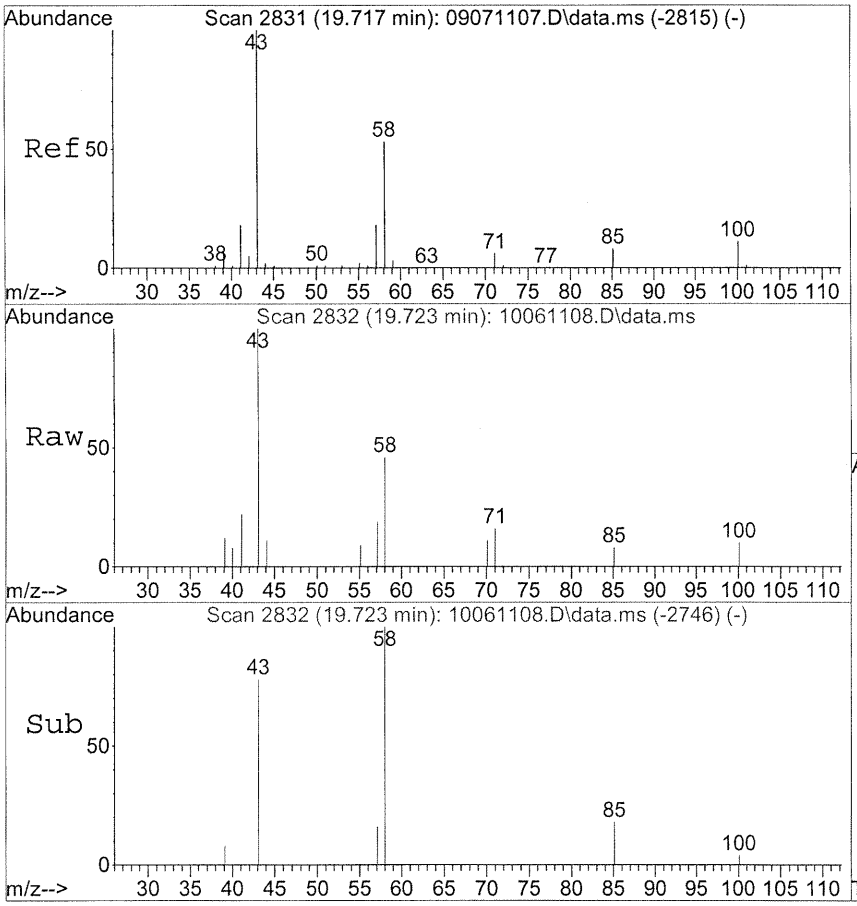


#58
Toluene
Concen: 1.49 ng
RT: 19.43 min Scan# 2780
Delta R.T. -0.017 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 91 Resp: 98677

Ion	Ratio	Lower	Upper
91	100		
92	58.3	38.8	78.8

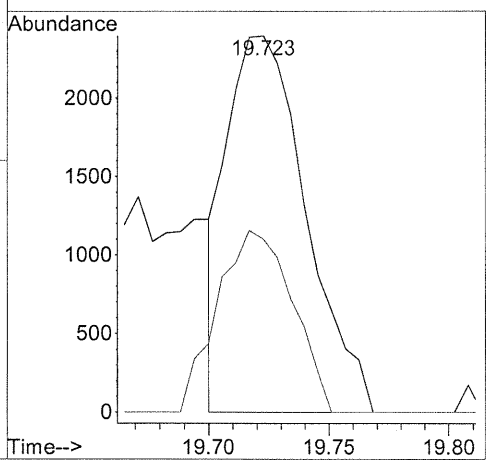


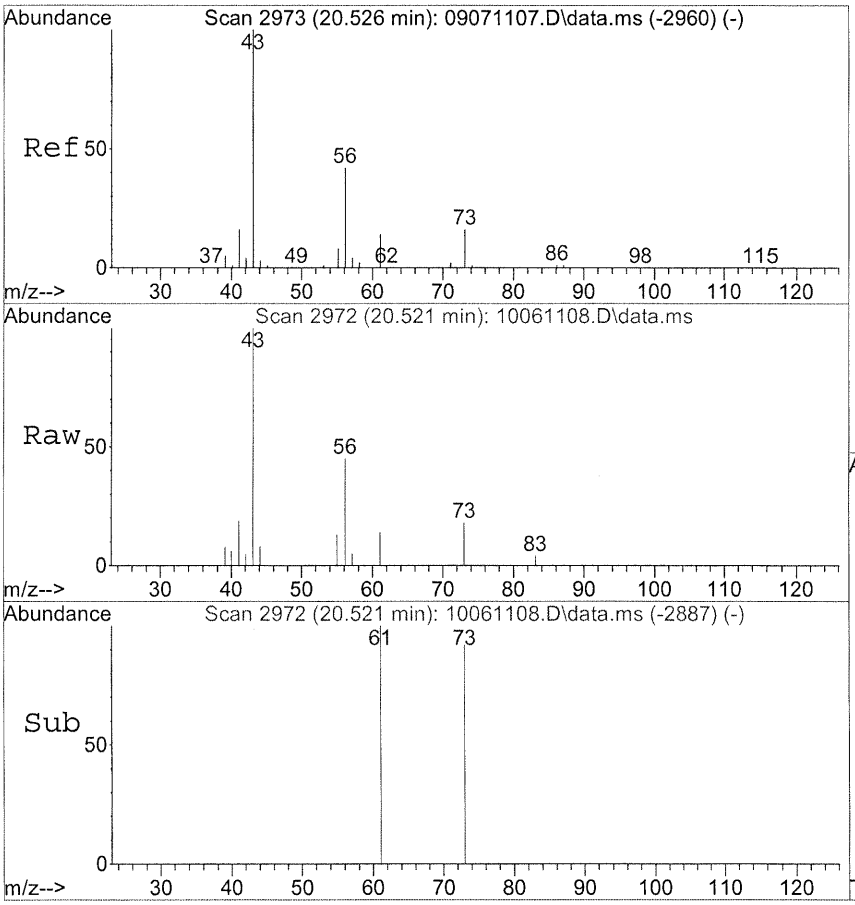


#59
2-Hexanone
Concen: 0.15 ng
RT: 19.72 min Scan# 2832
Delta R.T. -0.012 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 43 Resp: 5504

Ion	Ratio	Lower	Upper
43	100		
58	45.6	37.7	77.7

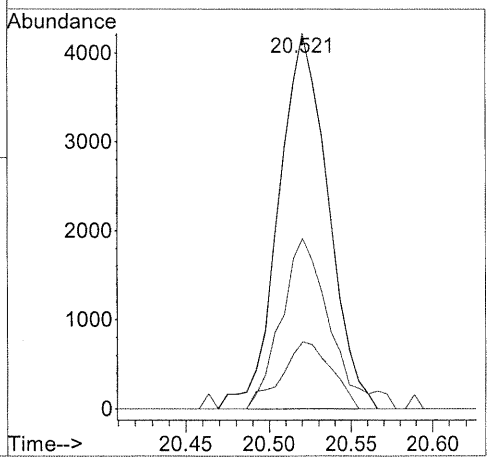


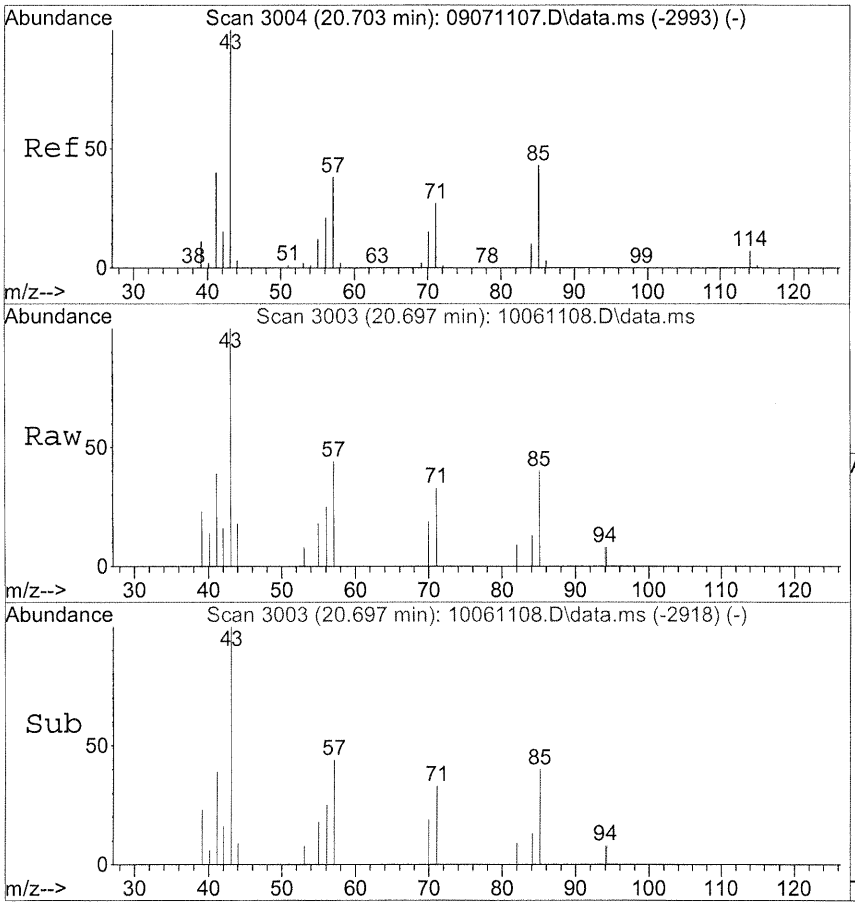


#62
n-Butyl Acetate
Concen: 0.21 ng
RT: 20.52 min Scan# 2972
Delta R.T. -0.017 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 43 Resp: 8845

Ion	Ratio	Lower	Upper
43	100		
56	44.7	23.6	63.6
73	18.0	0.1	40.1

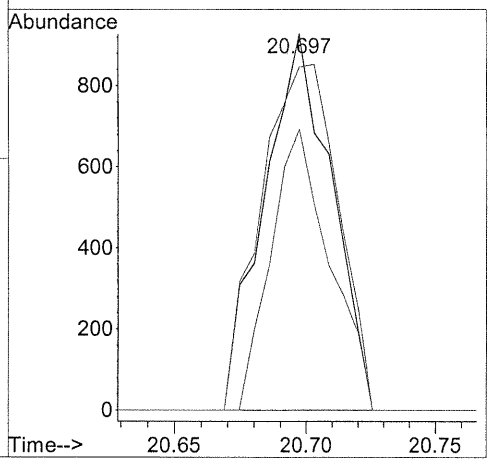


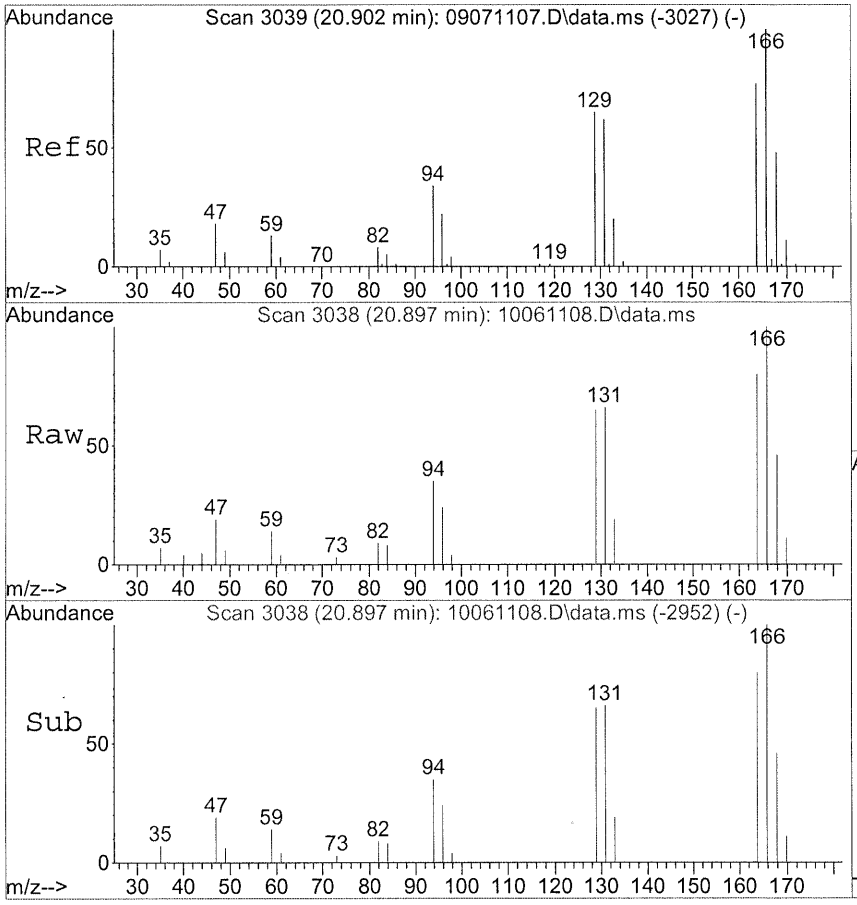


#63
n-Octane
Concen: 0.11 ng
RT: 20.70 min Scan# 3003
Delta R.T. -0.017 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 57 Resp: 1668

Ion	Ratio	Lower	Upper
57	100		
85	106.1	110.6	166.0#
71	65.3	61.0	91.6

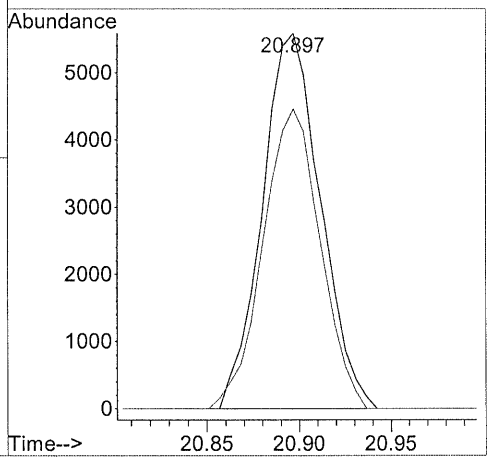


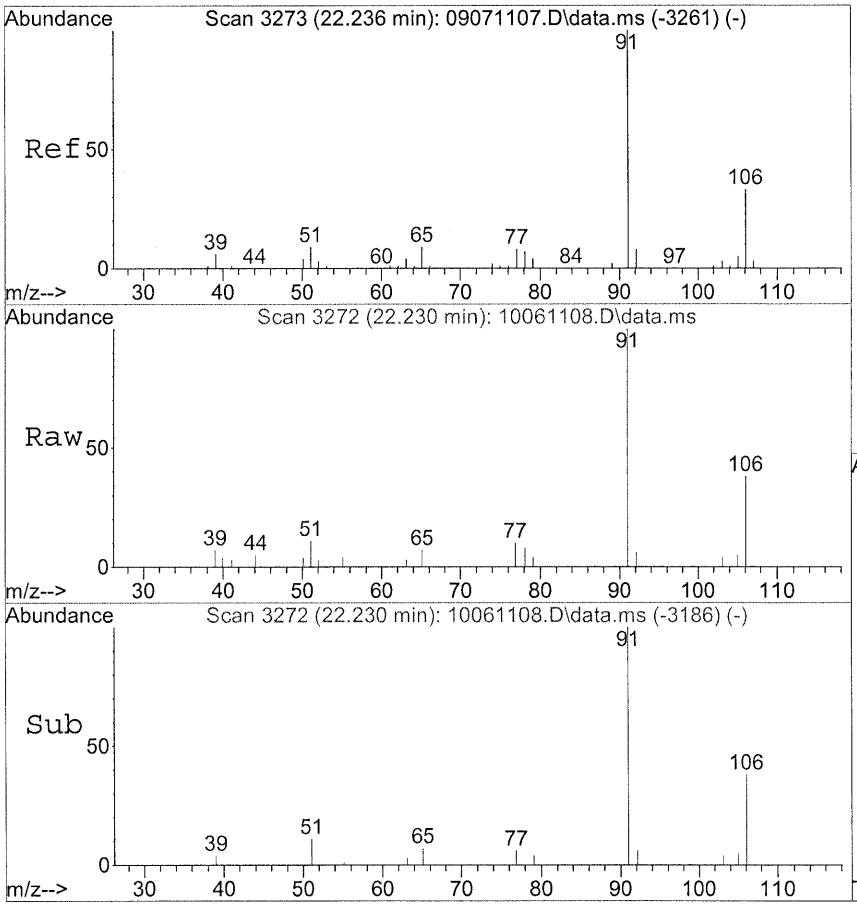


#64
Tetrachloroethene
Concen: 0.59 ng
RT: 20.90 min Scan# 3038
Delta R.T. -0.012 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion:166 Resp: 12305

Ion	Ratio	Lower	Upper
166	100		
164	78.5	58.2	98.2

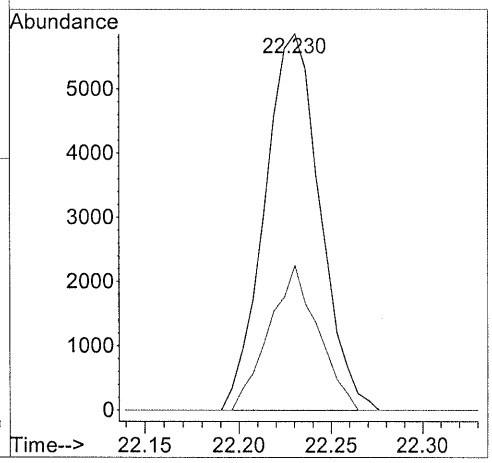


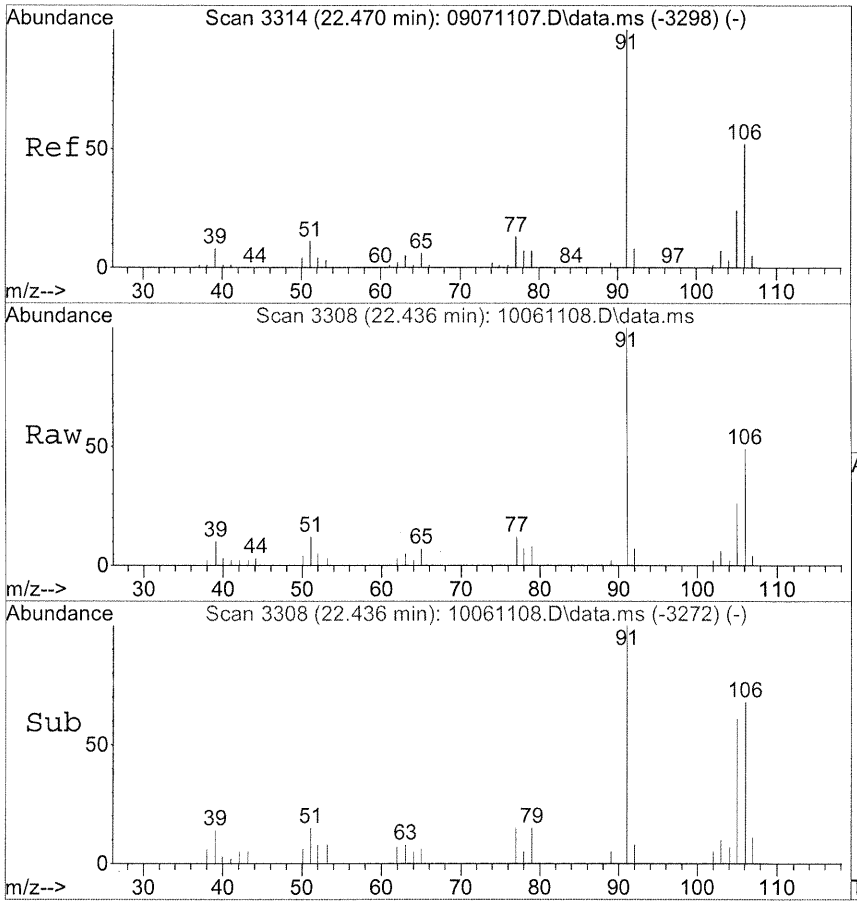


#66
Ethylbenzene
Concen: 0.17 ng
RT: 22.23 min Scan# 3272
Delta R.T. -0.012 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 91 Resp: 12210

Ion	Ratio	Lower	Upper
91	100		
106	33.9	12.0	52.0

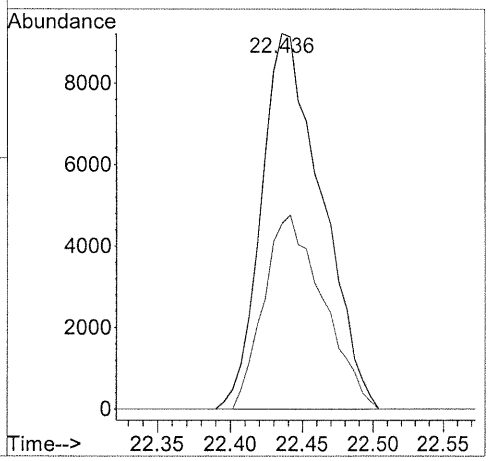


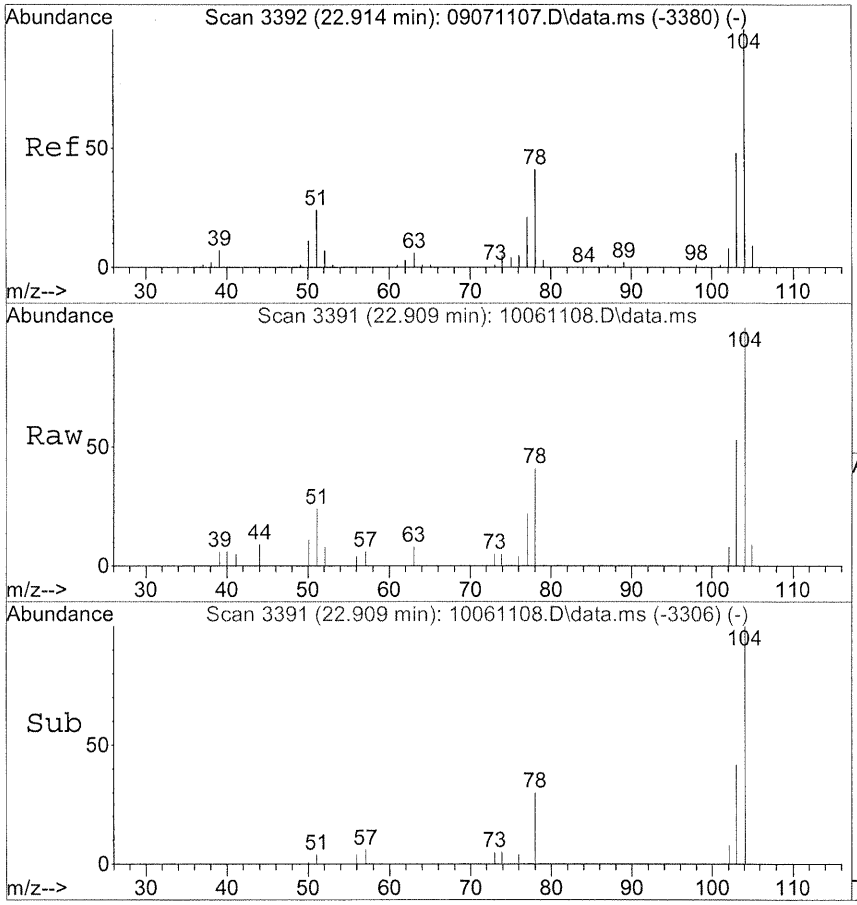


#67
m- & p-Xylenes
Concen: 0.47 ng
RT: 22.44 min Scan# 3308
Delta R.T. -0.046 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 91 Resp: 26954

Ion	Ratio	Lower	Upper
91	100		
106	50.9	27.4	67.4

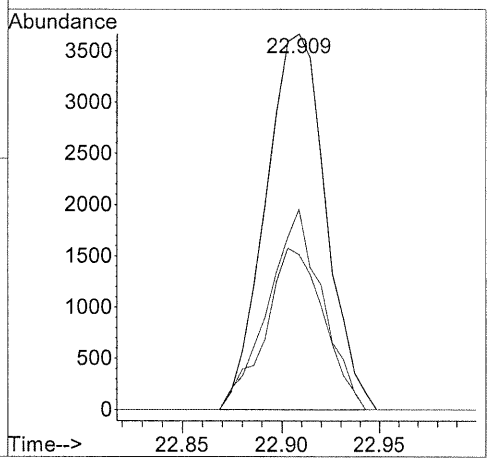


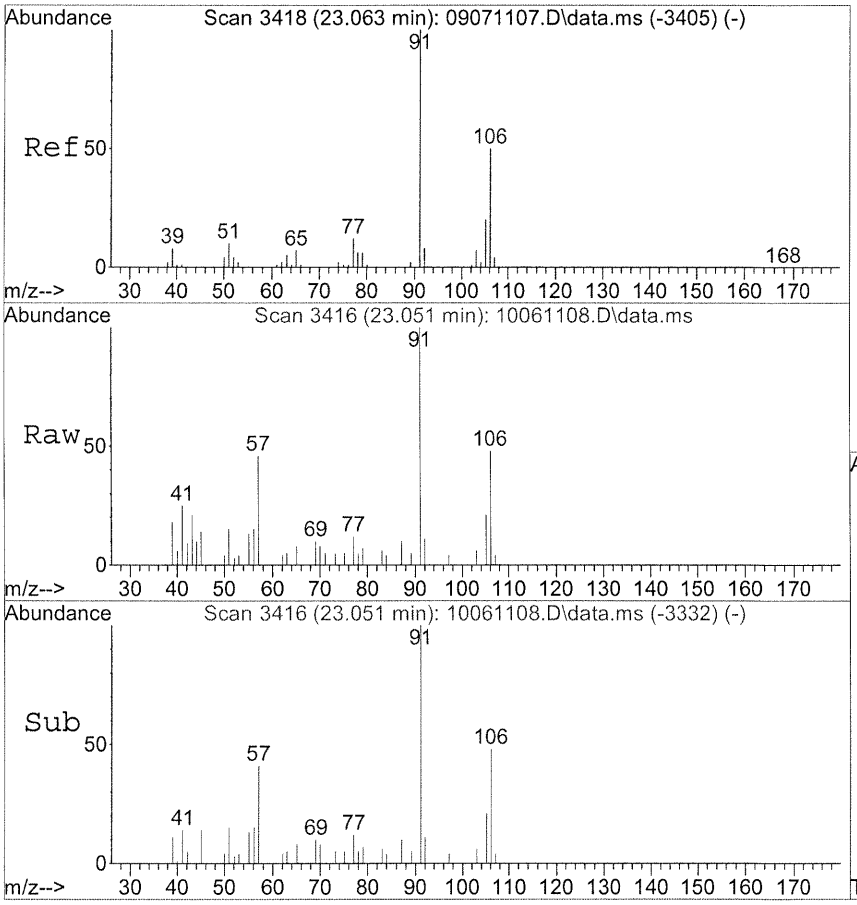


#69
Styrene
Concen: 0.17 ng
RT: 22.91 min Scan# 3391
Delta R.T. -0.017 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion:104 Resp: 7756

Ion	Ratio	Lower	Upper
104	100		
78	41.8	27.4	67.4
103	48.1	27.3	67.3

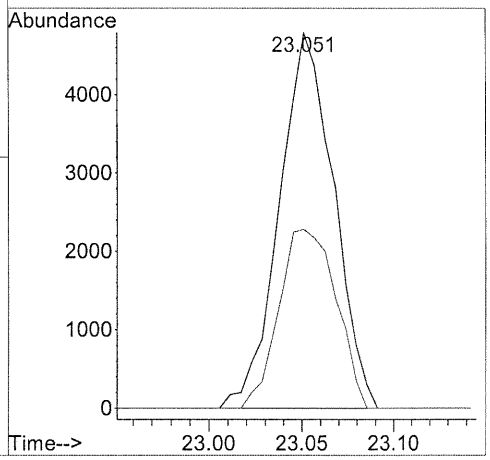


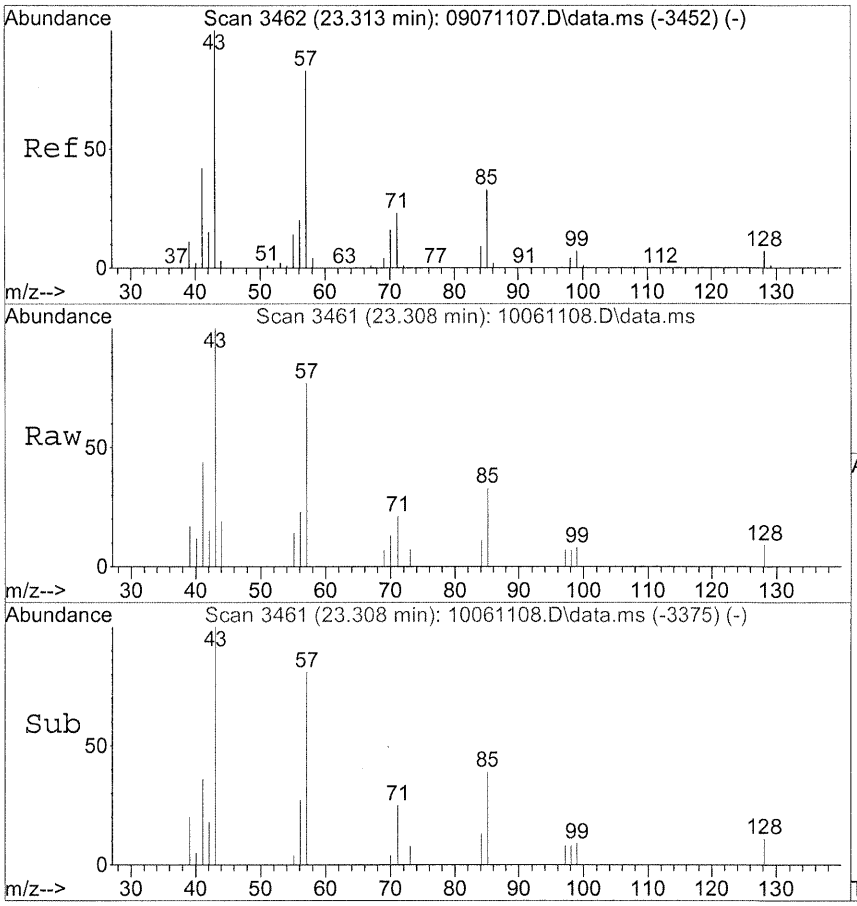


#70
o-Xylene
Concen: 0.16 ng
RT: 23.05 min Scan# 3416
Delta R.T. -0.023 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 91 Resp: 9830

Ion	Ratio	Lower	Upper
91	100		
106	50.2	25.7	65.7

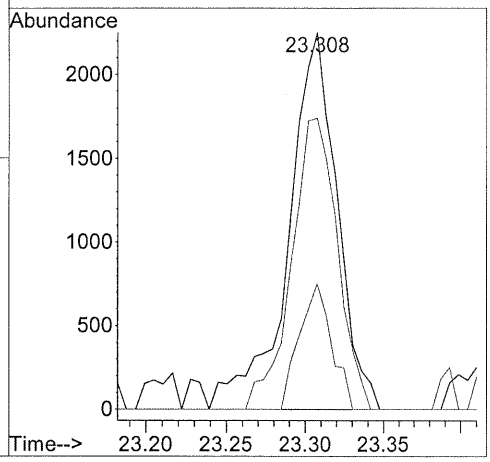


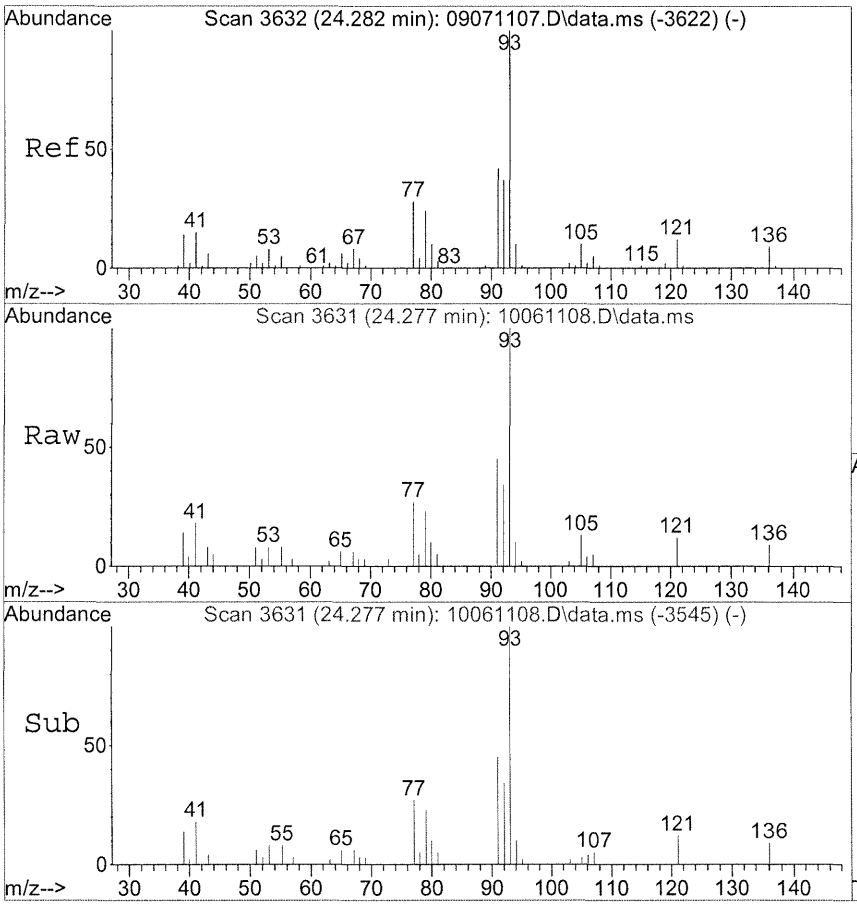


#71
n-Nonane
Concen: 0.12 ng
RT: 23.31 min Scan# 3461
Delta R.T. -0.012 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 43 Resp: 4863

Ion	Ratio	Lower	Upper
43	100		
57	72.6	75.1	115.1#
85	22.0	22.0	62.0

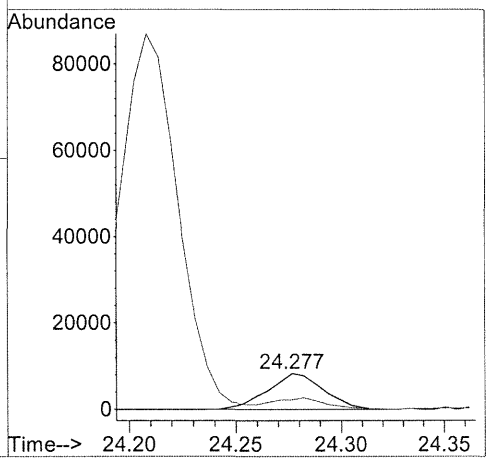


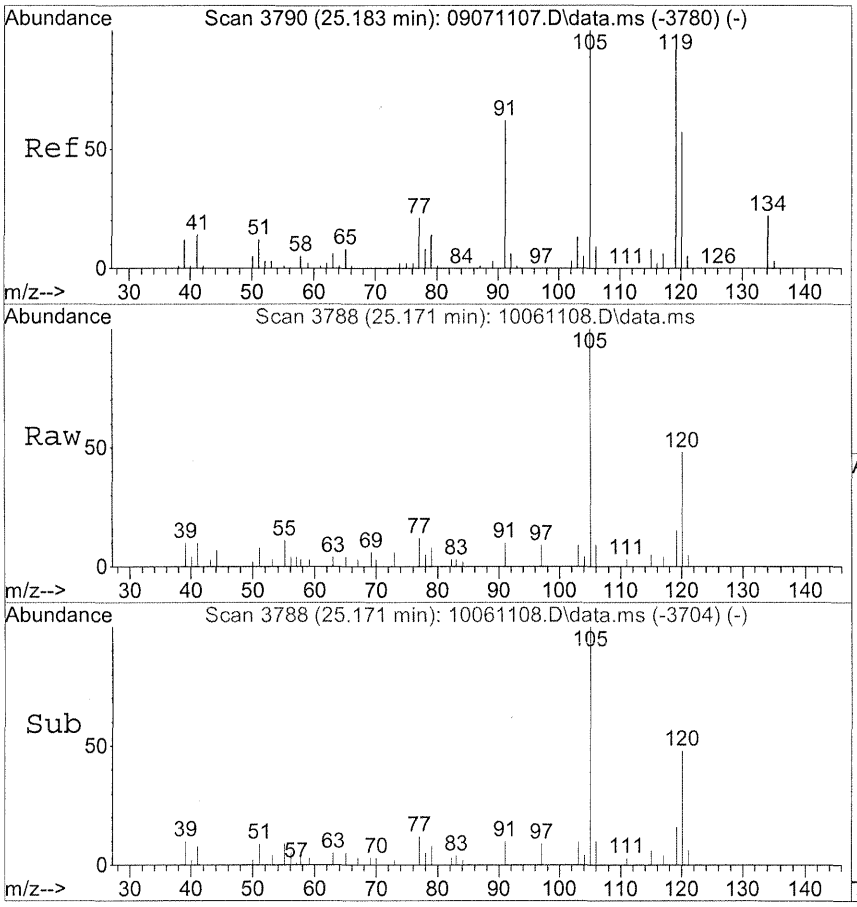


#75
alpha-Pinene
Concen: 0.39 ng
RT: 24.28 min Scan# 3631
Delta R.T. -0.012 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 93 Resp: 15156

Ion	Ratio	Lower	Upper
93	100		
77	29.5	12.5	52.5

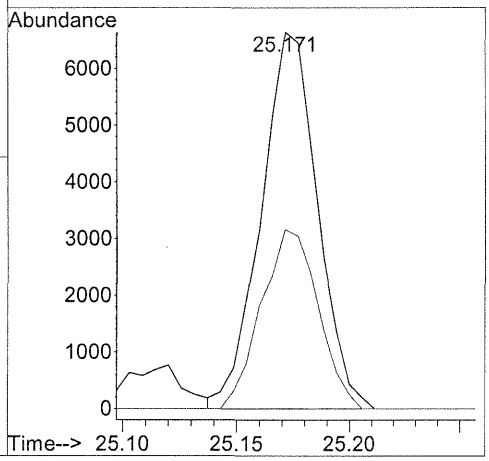


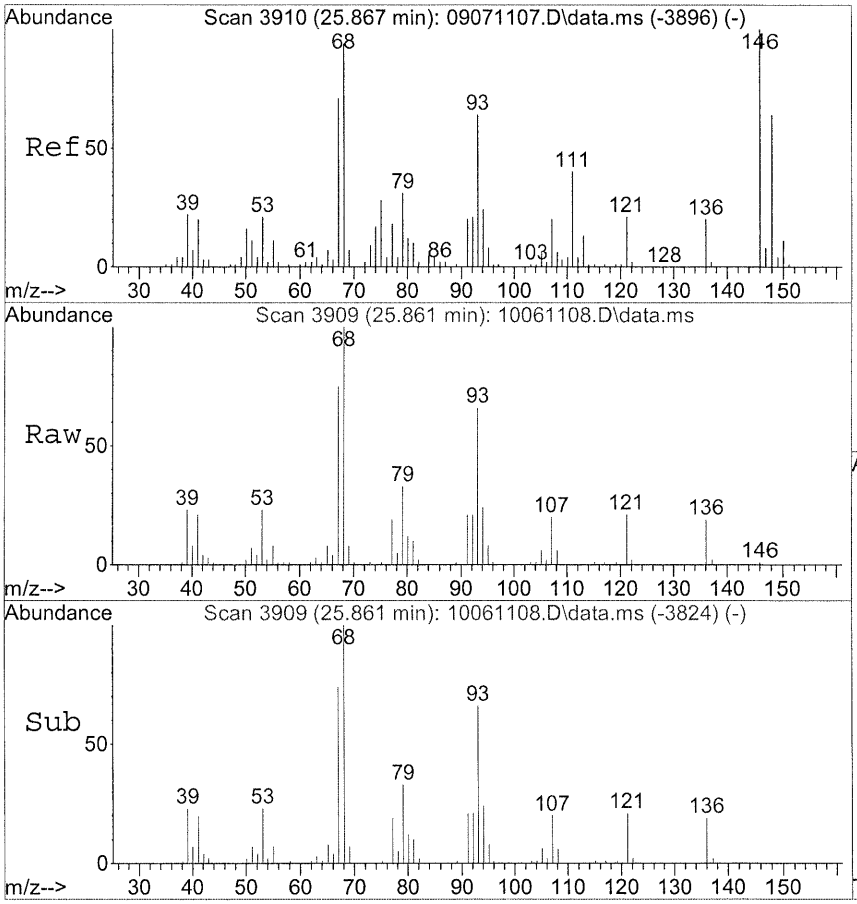


#82
1,2,4-Trimethylbenzene
Concen: 0.18 ng
RT: 25.17 min Scan# 3788
Delta R.T. -0.023 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion:105 Resp: 11492

Ion	Ratio	Lower	Upper
105	100		
120	48.0	29.9	69.9

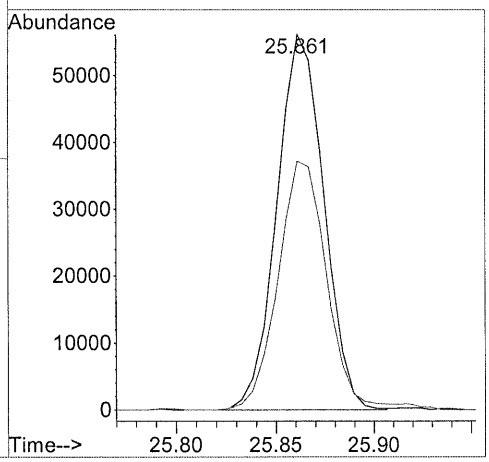


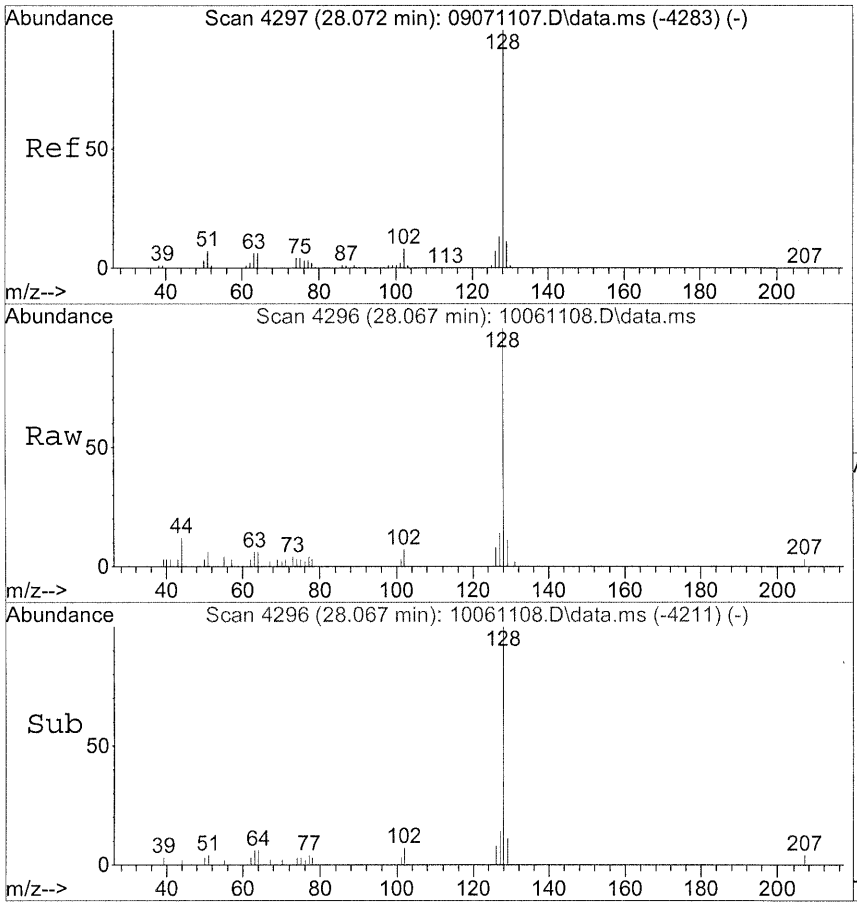


#91
d-Limonene
Concen: 3.67 ng
RT: 25.86 min Scan# 3909
Delta R.T. -0.017 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion: 68 Resp: 93108

Ion	Ratio	Lower	Upper
68	100		
93	69.1	51.7	91.7

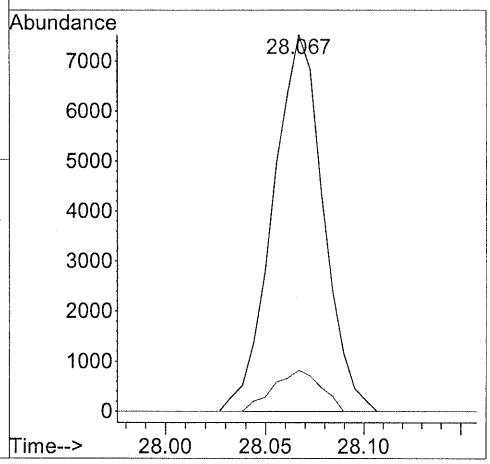




#95
Naphthalene
Concen: 0.14 ng
RT: 28.07 min Scan# 4296
Delta R.T. -0.017 min
Lab File: 10061108.D
Acq: 6 Oct 2011 14:33

Tgt Ion:128 Resp: 13419

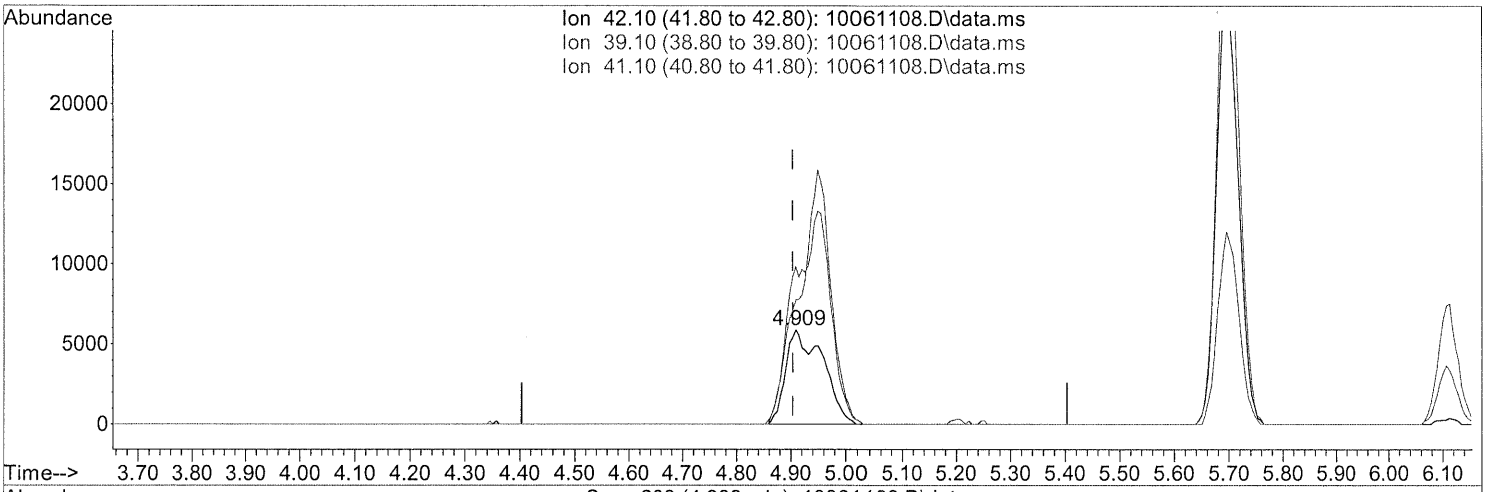
Ion	Ratio	Lower	Upper
128	100		
129	10.2	0.0	31.1

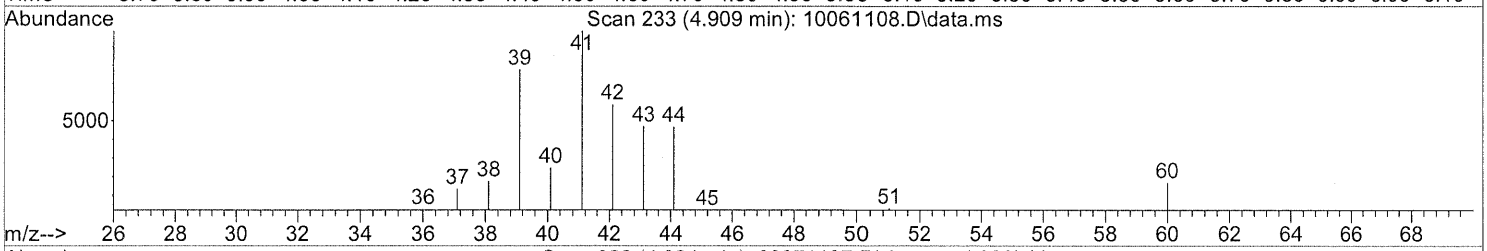


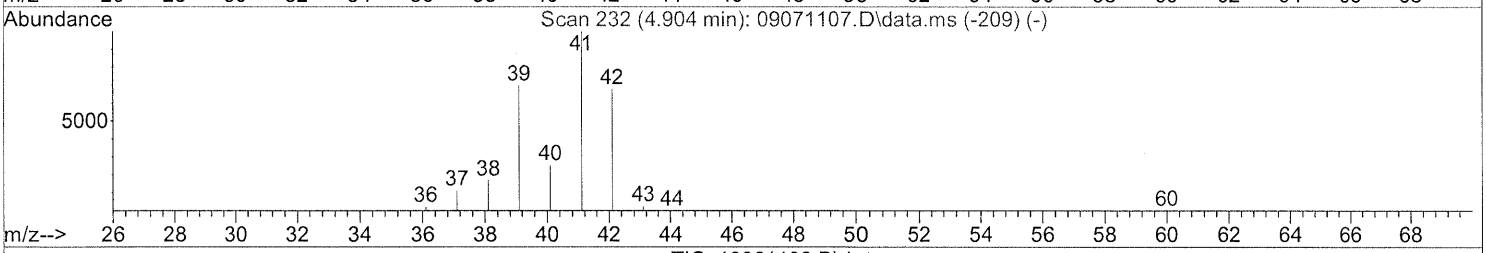
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 14:33
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 08:45:42 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061108.D\data.ms

(2) Propene (T)

4.909min (+0.005) 1.21ng

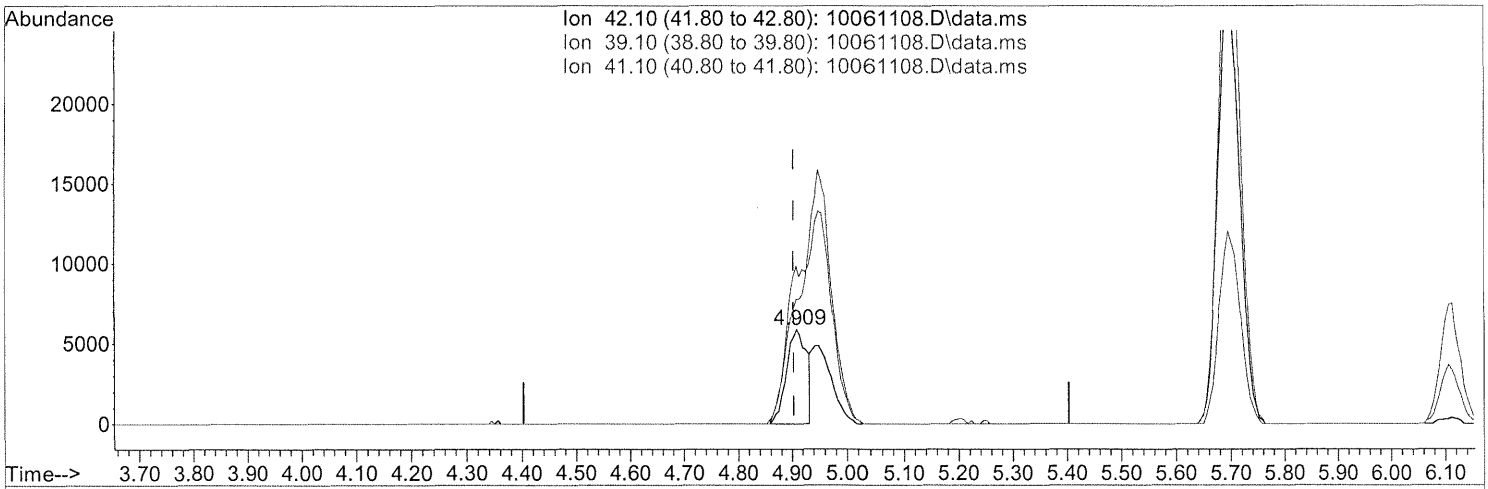
response 27600

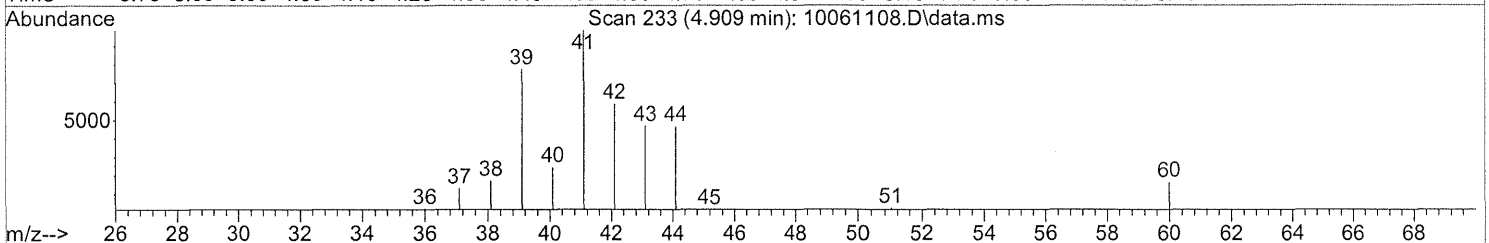
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	0.00#
0.00	0.00	0.00

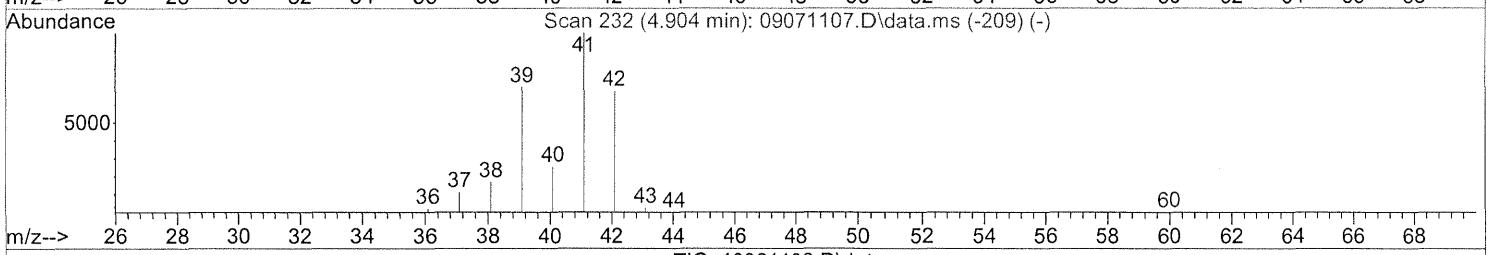
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 14:33
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 08:45:42 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061108.D\data.ms

(2) Propene (T)

4.909min (+0.005) 0.68ng m

response 15401

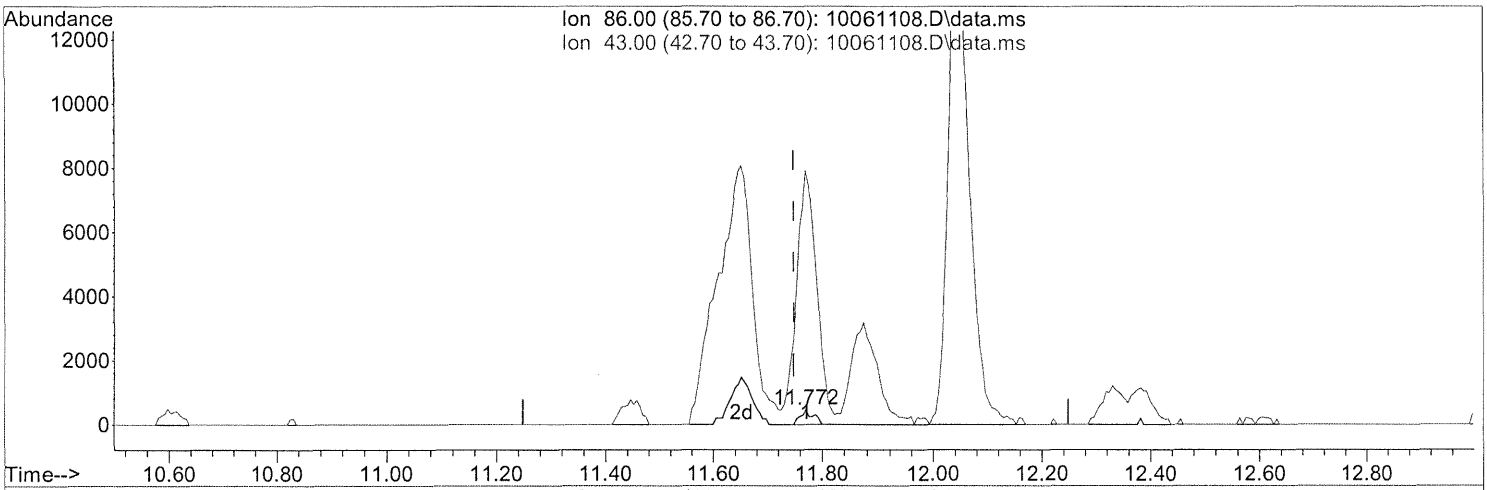
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	0.00#
0.00	0.00	0.00

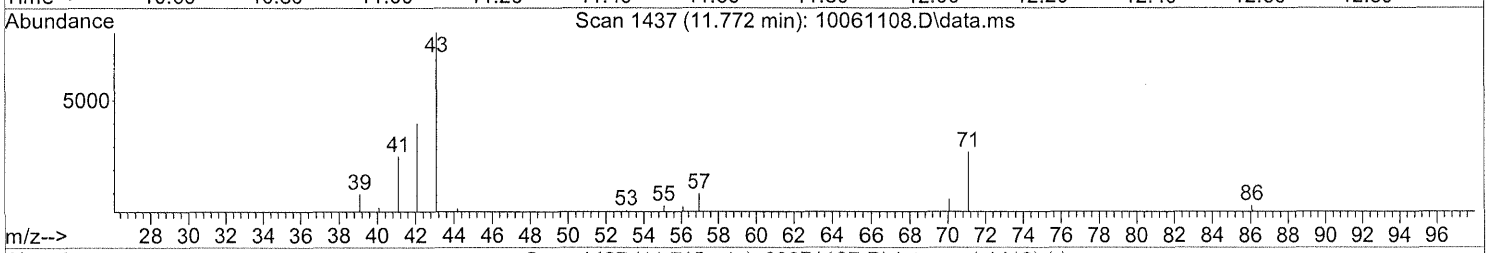
IPC
Em 10/7/11

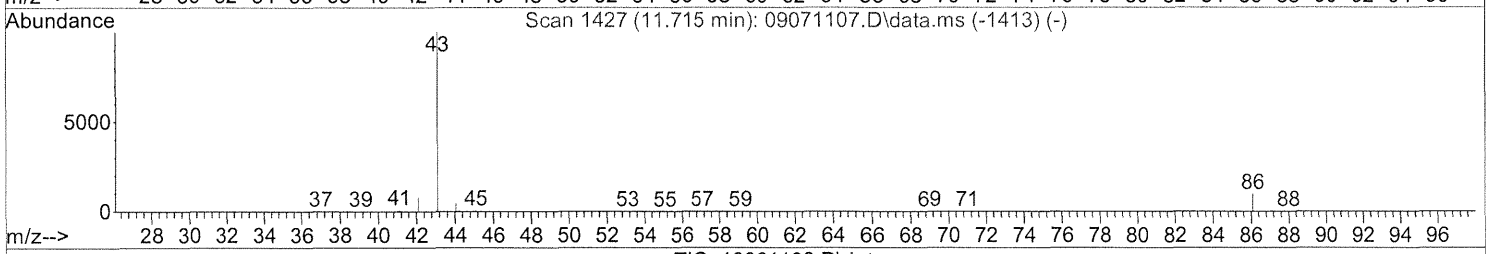
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 14:33
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 08:45:42 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061108.D\data.ms

(26) Vinyl Acetate (T)

11.772min (+0.023) 0.16ng

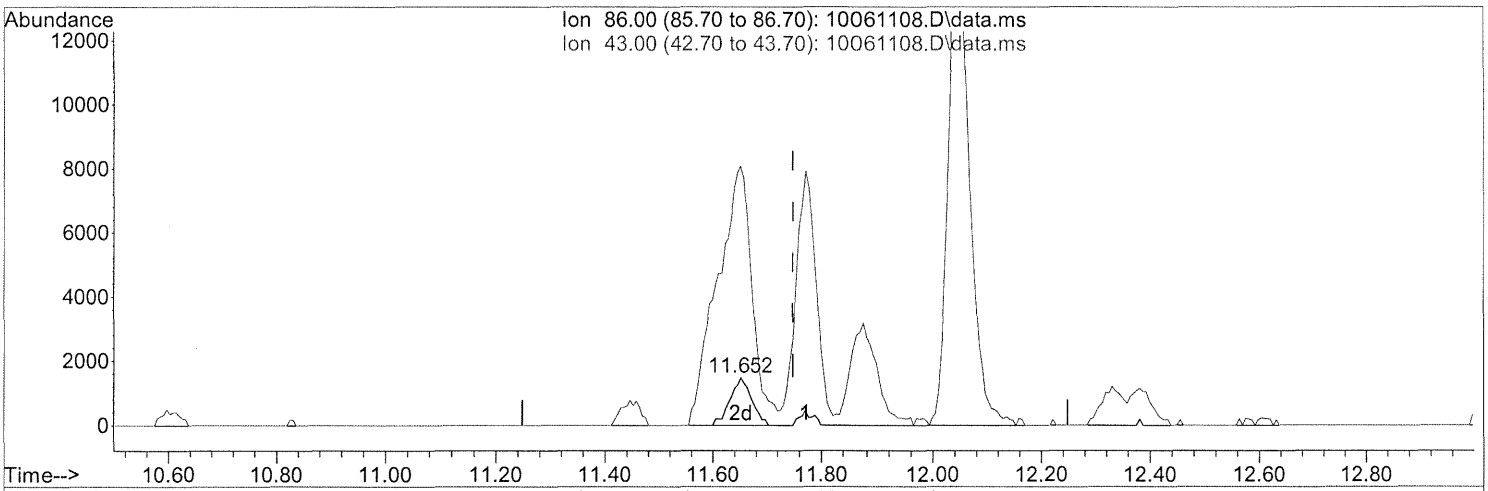
response 719

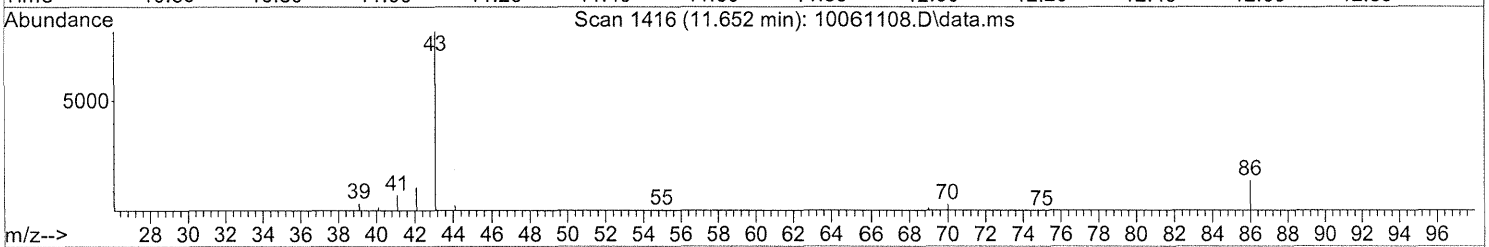
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	2850.21#
0.00	0.00	0.00
0.00	0.00	0.00

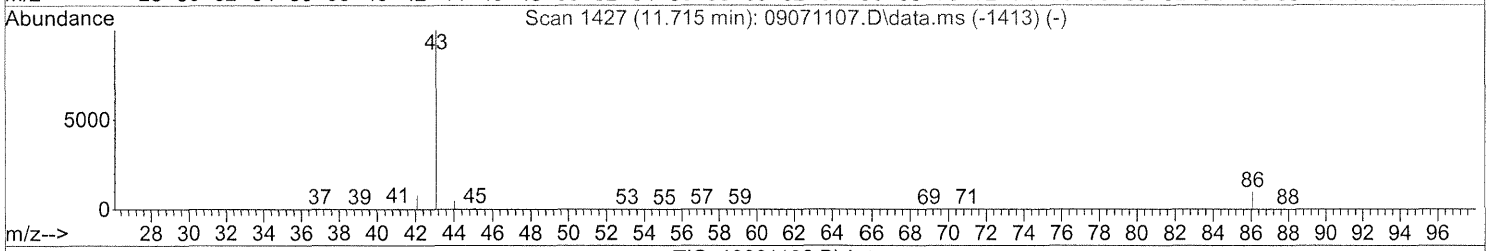
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 14:33
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 08:45:42 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061108.D\data.ms

(26) Vinyl Acetate (T)

11.652min (-0.097) 0.91ng m

response 4027

Ion	Exp%	Act%
86.00	100	100
43.00	845.70	508.89#
0.00	0.00	0.00
0.00	0.00	0.00

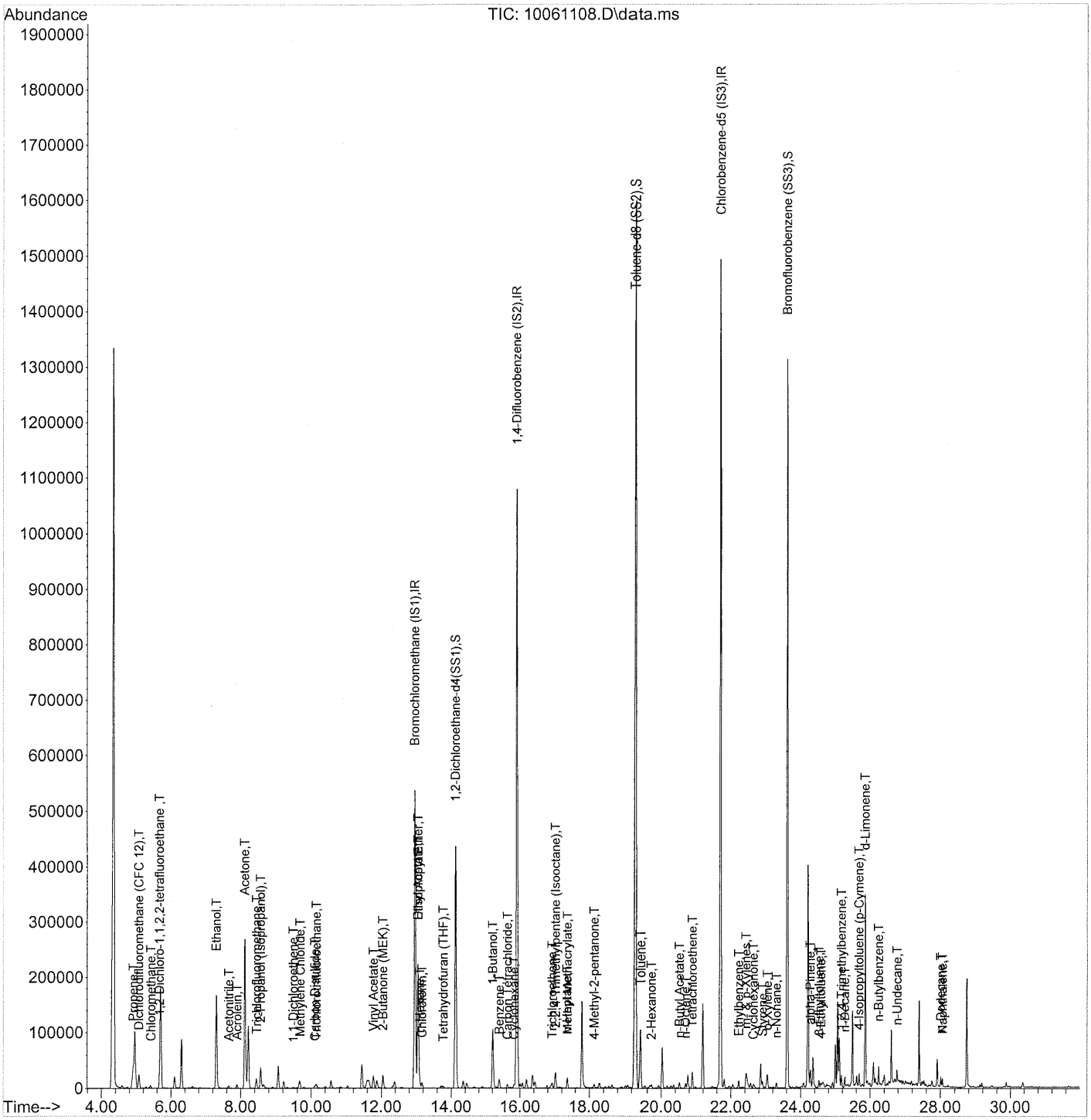
WP
EM 10/7/11

10/7/11

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 2:33 pm
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 08:45:42 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 2:33 pm
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 08:45:42 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	284025	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1271768	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	615903	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	421566	24.833	ng		-0.02
Spiked Amount 25.000			Recovery = 99.32%				
57) Toluene-d8 (SS2)	19.29	98	1414080	24.704	ng		-0.02
Spiked Amount 25.000			Recovery = 98.80%				
73) Bromofluorobenzene (SS3)	23.62	174	509593	25.235	ng		-0.01
Spiked Amount 25.000			Recovery = 100.92%				
Target Compounds							Qvalue
2) Propene	4.91	42	27600	1.213	ng	#	1
3) Dichlorodifluoromethan...	5.07	85	36959	1.315	ng		99
4) Chloromethane	5.42	50	5276	0.224	ng		97
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	931	0.060	ng	#	63
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.20	54	509	N.D.			
8) Bromomethane	6.70	94	662	N.D.			
9) Chloroethane	7.05	64	63	N.D.			
10) Ethanol	7.30	45	245062	18.640	ng		98
11) Acetonitrile	7.66	41	5204	0.170	ng		78
12) Acrolein	7.90	56	7611	0.765	ng		98
13) Acetone	8.11	58	145679	11.581	ng		89
14) Trichlorofluoromethane	8.45	101	18691	0.740	ng		100
15) 2-Propanol (Isopropanol)	8.56	45	64722	1.830	ng		93
16) Acrylonitrile	8.92	53	1017	N.D.			
17) 1,1-Dichloroethene	9.49	96	934	0.068	ng	#	82
18) 2-Methyl-2-Propanol (t...	9.58	59	1928	N.D.			
19) Methylene Chloride	9.68	84	6685	0.428	ng		82
20) 3-Chloro-1-propene (Al...	9.79	41	496	N.D.			
21) Trichlorotrifluoroethane	10.15	151	4000	0.304	ng		95
22) Carbon Disulfide	10.11	76	8453	0.156	ng		96
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	11.59	73	685	N.D.			
26) Vinyl Acetate	11.77	86	719	0.163	ng	#	1
27) 2-Butanone (MEK)	12.05	72	9382	0.865	ng	#	44
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.05	87	1111	0.083	ng	#	1
30) Ethyl Acetate	13.05	61	48631	8.272	ng		81
31) n-Hexane	13.11	57	8774	0.289	ng		97

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 2:33 pm
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 08:45:42 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.17	83	11186	0.488 ng		98
34) Tetrahydrofuran (THF)	13.78	72	1062	0.105 ng	#	51
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.29	62	429	N.D.		
38) 1,1,1-Trichloroethane	14.71	97	335	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.21	56	84704	4.575 ng	#	67
41) Benzene	15.40	78	19681	0.329 ng		99
42) Carbon Tetrachloride	15.64	117	5681	0.307 ng		99
43) Cyclohexane	15.82	84	4087	0.157 ng		84
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.83	83	51	N.D.		
47) Trichloroethene	16.92	130	4006	0.232 ng		97
48) 1,4-Dioxane	16.88	88	55	N.D.		
49) 2,2,4-Trimethylpentane...	17.02	57	31978	0.434 ng		99
50) Methyl Methacrylate	17.37	100	1747	0.247 ng	#	1
51) n-Heptane	17.36	71	5833	0.329 ng		95
52) cis-1,3-Dichloropropene	17.79	75	685	N.D.		
53) 4-Methyl-2-pentanone	18.14	58	2033	0.134 ng	#	58
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.43	91	98677	1.490 ng		99
59) 2-Hexanone	19.72	43	5504	0.149 ng		84
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.52	43	8845	0.205 ng		97
63) n-Octane	20.70	57	1668	0.111 ng	#	78
64) Tetrachloroethene	20.90	166	12305	0.595 ng		100
65) Chlorobenzene	21.76	112	708	N.D.		
66) Ethylbenzene	22.23	91	12210	0.168 ng		97
67) m- & p-Xylenes	22.44	91	26954	0.467 ng		95
68) Bromoform	22.56	173	70	N.D.		
69) Styrene	22.91	104	7756	0.172 ng		95
70) o-Xylene	23.05	91	9830	0.162 ng		93
71) n-Nonane	23.31	43	4863	0.123 ng	#	74
72) 1,1,2,2-Tetrachloroethane	23.05	83	440	N.D.		
74) Cumene	23.79	105	1384	N.D.		
75) alpha-Pinene	24.28	93	15156	0.387 ng		95
76) n-Propylbenzene	24.41	91	4502	N.D.		
77) 3-Ethyltoluene	24.53	105	8698	0.113 ng		99
78) 4-Ethyltoluene	24.58	105	4922	0.066 ng		95
79) 1,3,5-Trimethylbenzene	24.67	105	3608	N.D.		

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061108.D
Acq On : 6 Oct 2011 2:33 pm
Operator : EM/CR
Sample : P1103662-002 (1000ml)
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 08:45:42 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

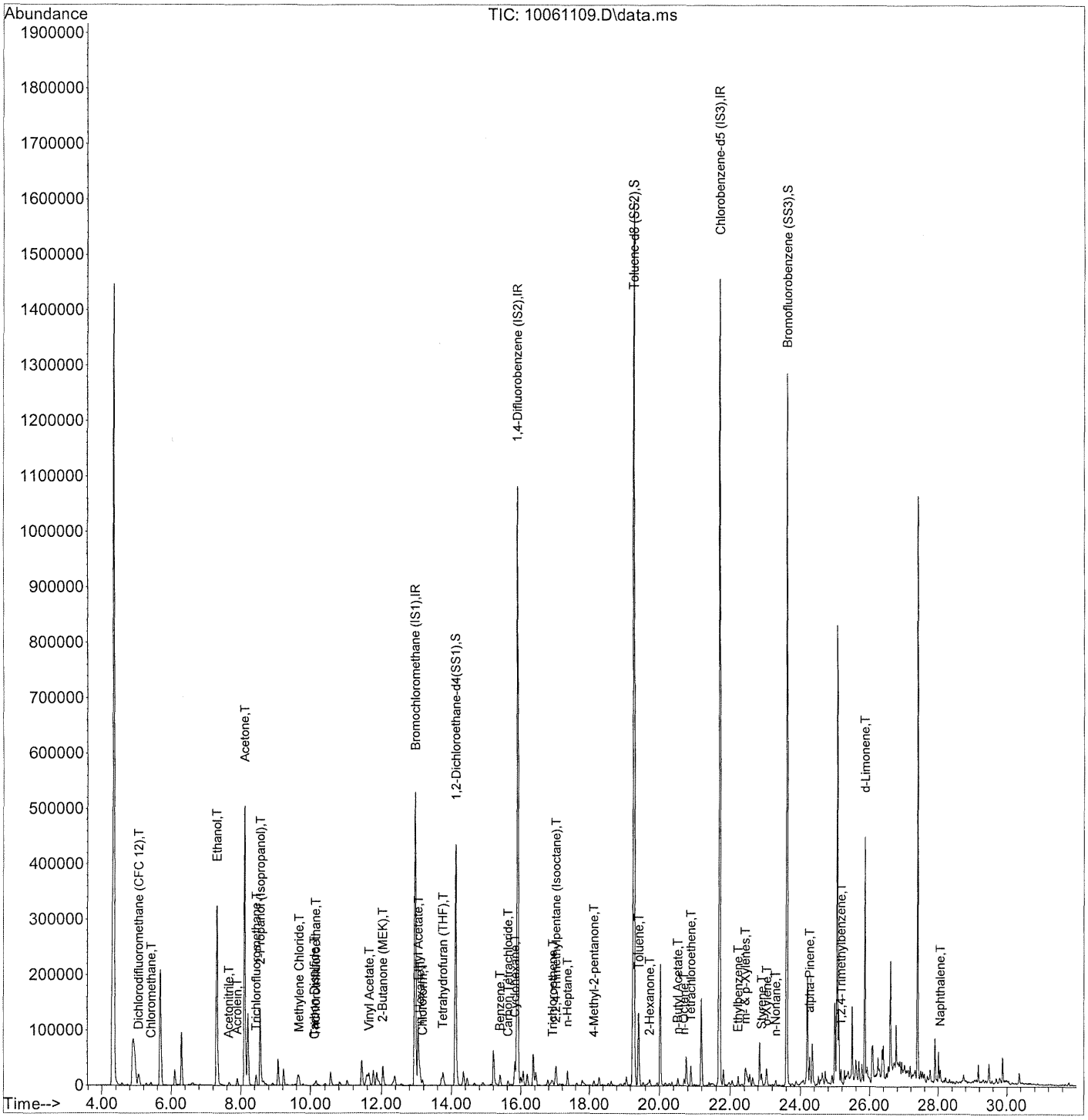
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.86	118	704	N.D.		
81) 2-Ethyltoluene	24.91	105	3342	N.D.		
82) 1,2,4-Trimethylbenzene	25.17	105	11492	0.180 ng		97
83) n-Decane	25.27	57	7583	0.192 ng		93
84) Benzyl Chloride	25.34	91	1150	N.D.		
85) 1,3-Dichlorobenzene	25.38	146	727	N.D.		
86) 1,4-Dichlorobenzene	25.45	146	1865	N.D.		
87) sec-Butylbenzene	25.50	105	3205	N.D.		
88) 4-Isopropyltoluene (p-...	25.68	119	8154	0.096 ng		88
89) 1,2,3-Trimethylbenzene	25.69	105	3630	N.D.		
90) 1,2-Dichlorobenzene	25.86	146	489	N.D.		
91) d-Limonene	25.86	68	93108	3.666 ng		97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.77	57	9338	0.242 ng		95
94) 1,2,4-Trichlorobenzene	27.92	180	1605	N.D.		
95) Naphthalene	28.07	128	13419	0.142 ng		98
96) n-Dodecane	28.02	57	6582	0.186 ng		92
97) Hexachlorobutadiene	28.49	225	60	N.D.		
98) Cyclohexanone	22.64	55	3973	0.164 ng	#	85
99) tert-Butylbenzene	25.06	119	2786	N.D.		
100) n-Butylbenzene	26.24	91	6098	0.093 ng	#	73

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 15:16
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 10:31:19 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 15:16
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 10:31:19 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.97	130	281666	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.91	114	1275920	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	608327	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	420134	24.956	ng		-0.02
Spiked Amount 25.000			Recovery =	99.84%			
57) Toluene-d8 (SS2)	19.29	98	1415511	25.037	ng		-0.02
Spiked Amount 25.000			Recovery =	100.16%			
73) Bromofluorobenzene (SS3)	23.62	174	504433	25.290	ng		0.00
Spiked Amount 25.000			Recovery =	101.16%			
Target Compounds							Qvalue
3) Dichlorodifluoromethan...	5.06	85	43152	1.548	ng		98
4) Chloromethane	5.42	50	6414	0.274	ng		95
10) Ethanol	7.32	45	517737	39.710	ng		100
11) Acetonitrile	7.66	41	6192	0.205	ng	#	53
12) Acrolein	7.90	56	14048	1.424	ng		98
13) Acetone	8.11	58	271393	21.756	ng		90
14) Trichlorofluoromethane	8.45	101	20684	0.825	ng		100
15) 2-Propanol (Isopropanol)	8.57	45	234049	6.674	ng		92
19) Methylene Chloride	9.68	84	7763	0.501	ng		81
21) Trichlorotrifluoroethane	10.15	151	4575	0.351	ng		95
22) Carbon Disulfide	10.11	76	6394	0.119	ng		89
26) Vinyl Acetate	11.66	86	5505m	1.255	ng		
27) 2-Butanone (MEK)	12.05	72	13946	1.297	ng	#	44
30) Ethyl Acetate	13.05	61	24188	4.149	ng		81
31) n-Hexane	13.11	57	17765	0.591	ng	#	96
32) Chloroform	13.17	83	10305	0.454	ng		98
34) Tetrahydrofuran (THF)	13.76	72	8096	0.810	ng	#	36
41) Benzene	15.40	78	22988	0.383	ng		98
42) Carbon Tetrachloride	15.63	117	6636	0.357	ng		99
43) Cyclohexane	15.83	84	23488	0.902	ng		91
47) Trichloroethene	16.92	130	2300	0.133	ng		96
49) 2,2,4-Trimethylpentane...	17.02	57	38756	0.524	ng		95
51) n-Heptane	17.36	71	7893	0.444	ng		90
53) 4-Methyl-2-pentanone	18.14	58	2985	0.196	ng	#	68
58) Toluene	19.42	91	122733	1.877	ng		99
59) 2-Hexanone	19.72	43	12367	0.340	ng	#	72
62) n-Butyl Acetate	20.52	43	12239	0.287	ng		97
63) n-Octane	20.70	57	2230	0.150	ng	#	80
64) Tetrachloroethene	20.90	166	15176	0.743	ng		99
66) Ethylbenzene	22.23	91	16053	0.224	ng		98

EM 10/7/11

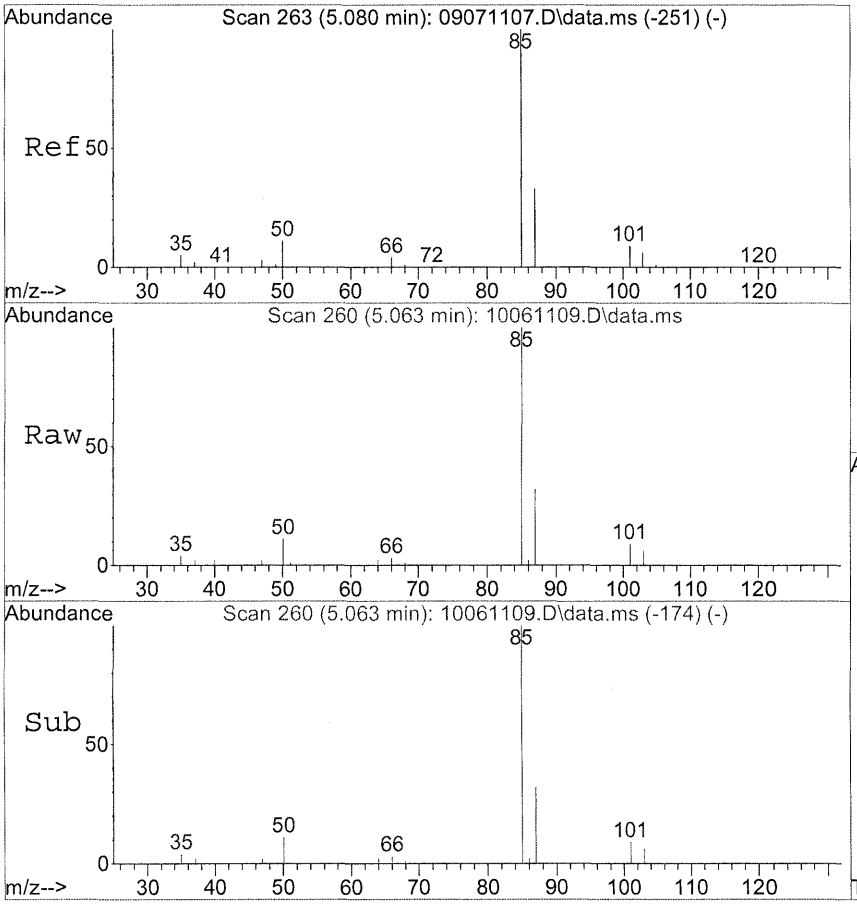
Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 15:16
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 10:31:19 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) m- & p-Xylenes	22.44	91	32787	0.576	ng	96
69) Styrene	22.91	104	13897	0.312	ng	94
70) o-Xylene	23.05	91	12511	0.209	ng	96
71) n-Nonane	23.31	43	5448	0.139	ng	80
75) alpha-Pinene	24.28	93	24222	0.626	ng	96
82) 1,2,4-Trimethylbenzene	25.18	105	14015	0.222	ng	96
91) d-Limonene	25.86	68	120129	4.789	ng	97
95) Naphthalene	28.06	128	15166	0.163	ng	93

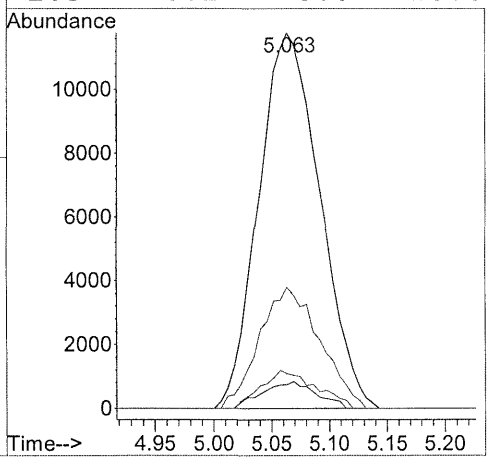
(#) = qualifier out of range (m) = manual integration (+) = signals summed

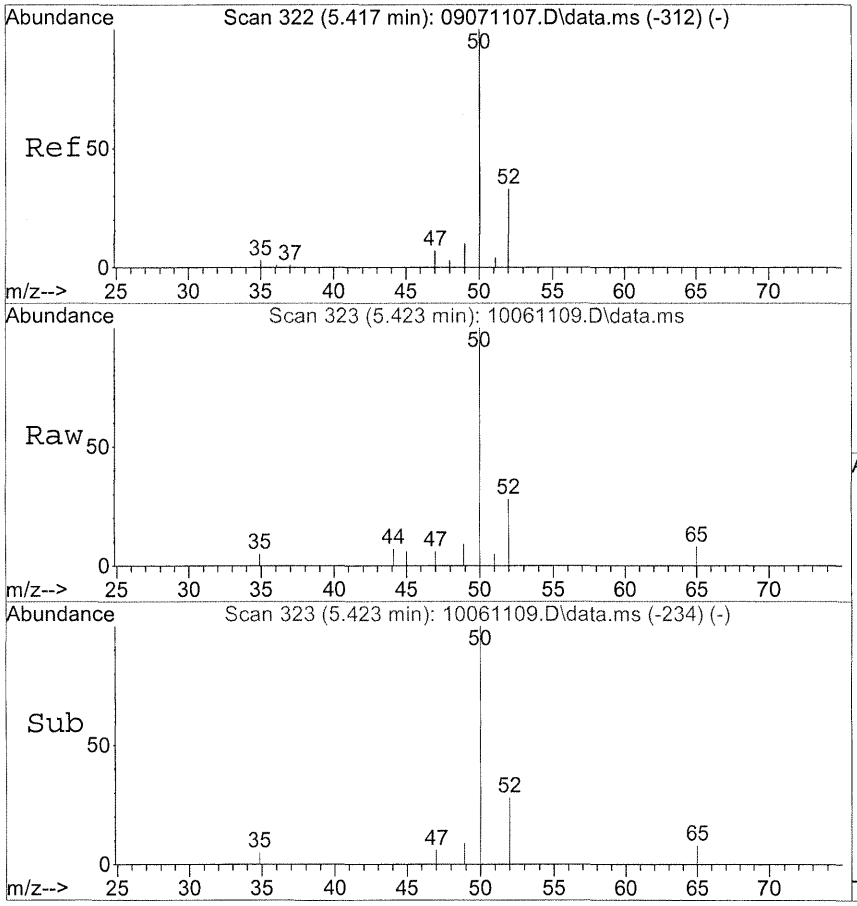


#3
Dichlorodifluoromethane (CFC
Concen: 1.55 ng
RT: 5.06 min Scan# 260
Delta R.T. -0.012 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 85 Resp: 43152

Ion	Ratio	Lower	Upper
85	100		
87	31.8	13.0	53.0
101	9.0	0.0	29.1
103	6.2	0.0	26.0

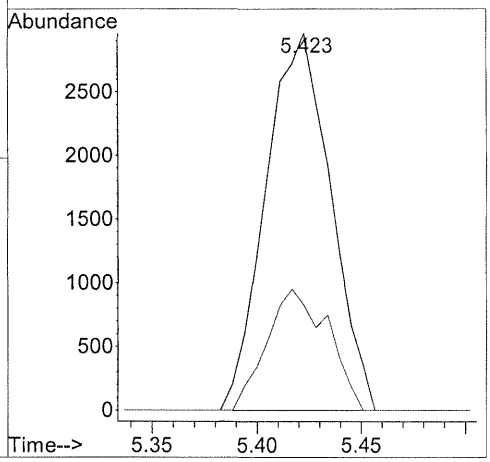


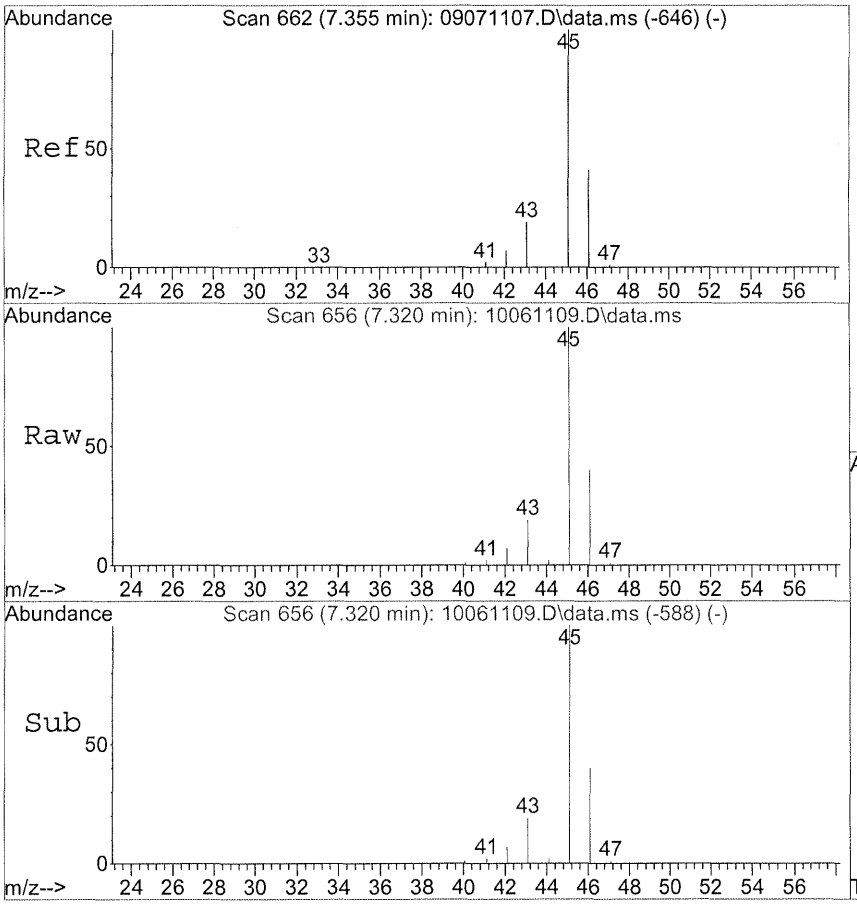


#4
Chloromethane
Concen: 0.27 ng
RT: 5.42 min Scan# 323
Delta R.T. 0.006 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 50 Resp: 6414

Ion	Ratio	Lower	Upper
50	100		
52	30.2	13.1	53.1

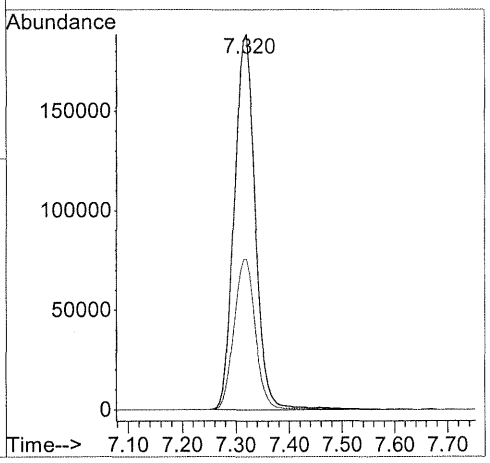


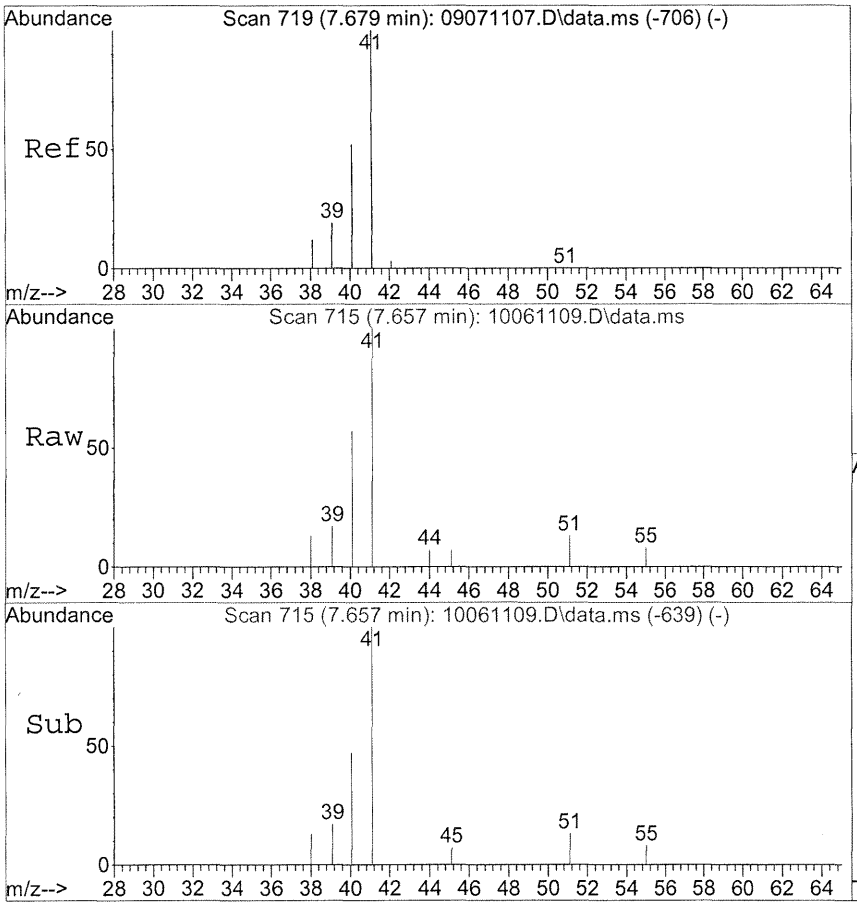


#10
Ethanol
Concen: 39.71 ng
RT: 7.32 min Scan# 656
Delta R.T. -0.114 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 45 Resp: 517737

Ion	Ratio	Lower	Upper
45	100		
46	41.0	20.7	60.7

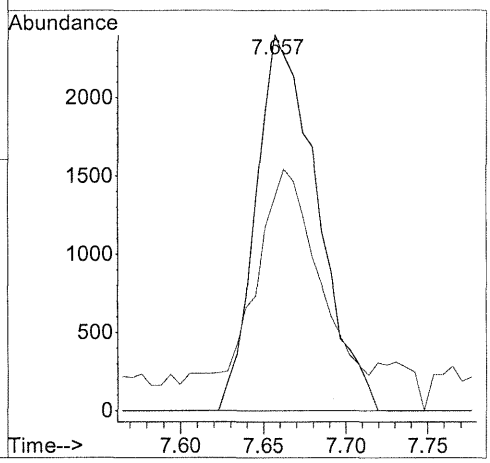


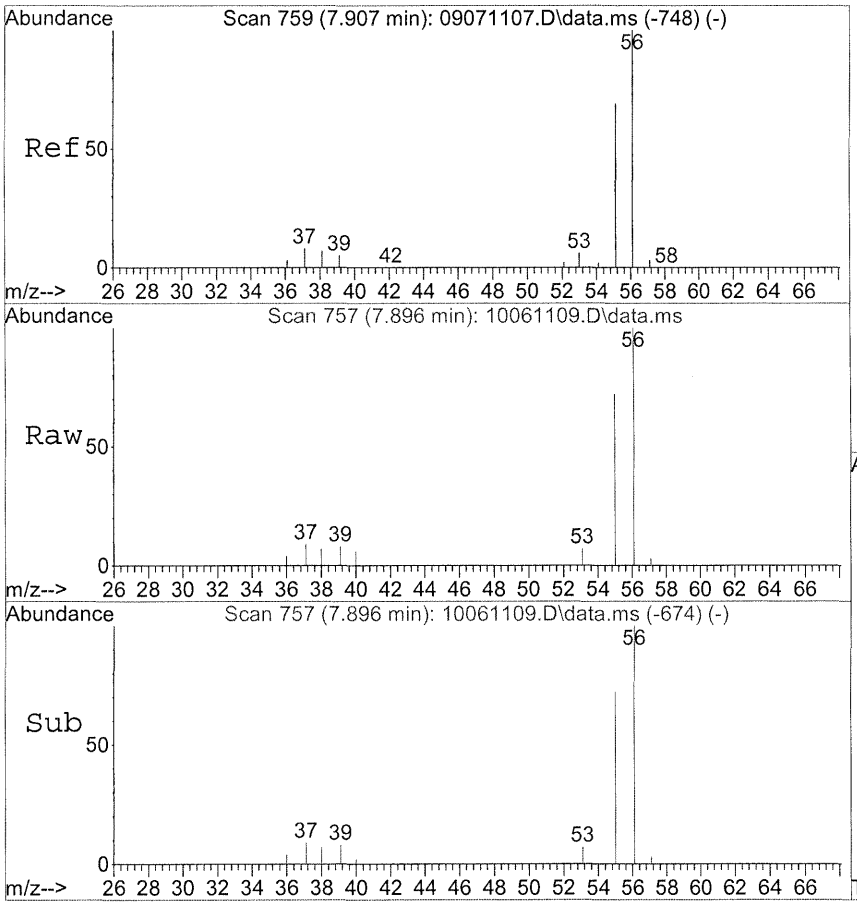


#11
Acetonitrile
Concen: 0.20 ng
RT: 7.66 min Scan# 715
Delta R.T. -0.069 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 41 Resp: 6192

Ion	Ratio	Lower	Upper
41	100		
40	84.7	31.5	71.5#

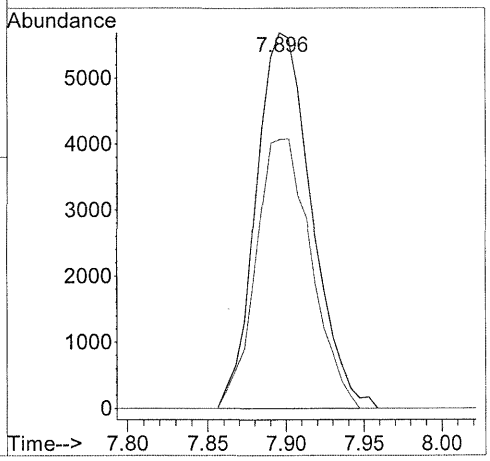


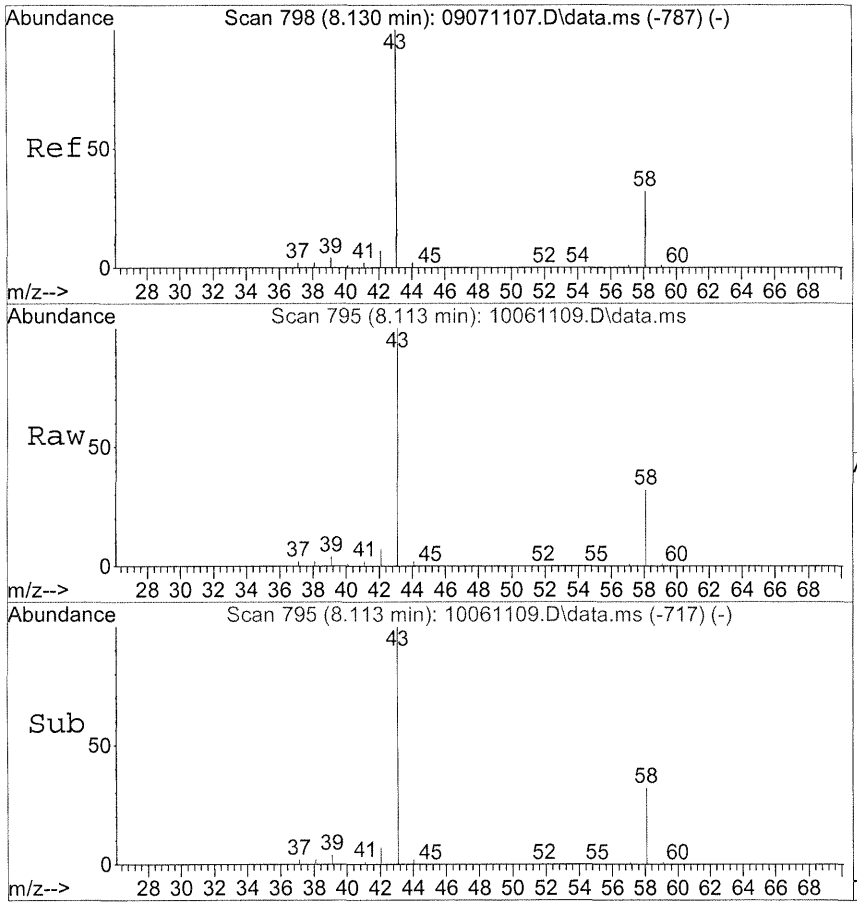


#12
Acrolein
Concen: 1.42 ng
RT: 7.90 min Scan# 757
Delta R.T. -0.029 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 56 Resp: 14048

Ion	Ratio	Lower	Upper
56	100		
55	71.6	50.1	90.1

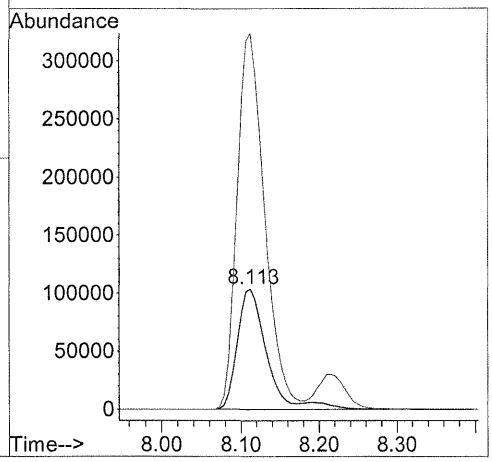


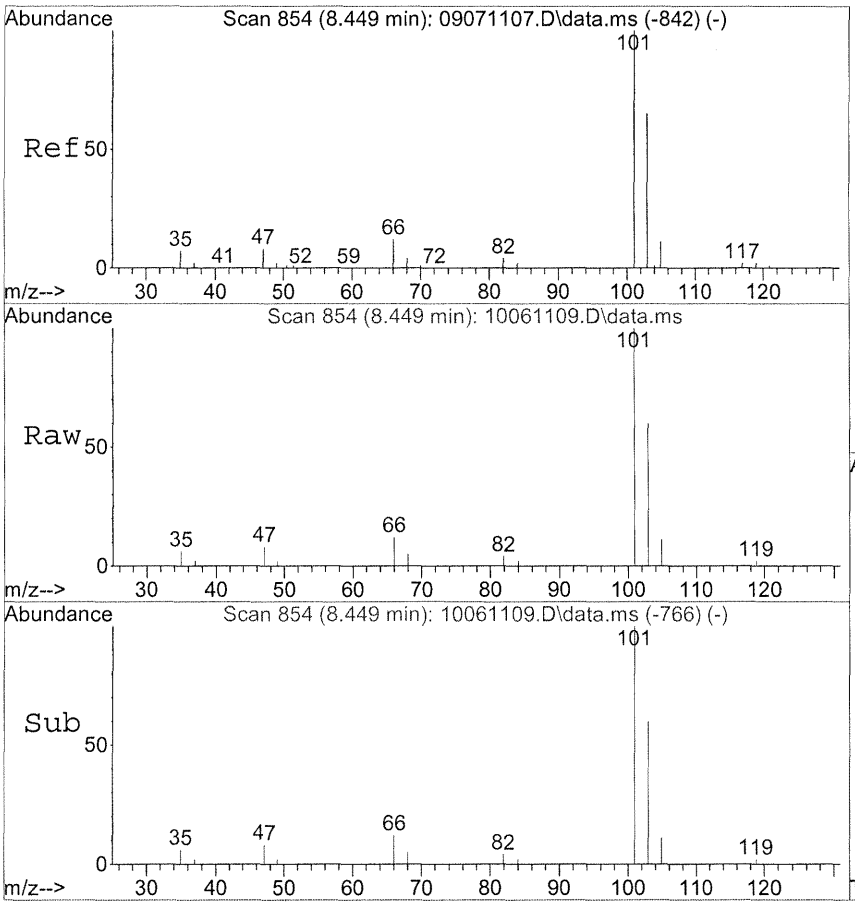


#13
Acetone
Concen: 21.76 ng
RT: 8.11 min Scan# 795
Delta R.T. -0.057 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 58 Resp: 271393

Ion	Ratio	Lower	Upper
58	100		
43	293.6	283.8	343.8

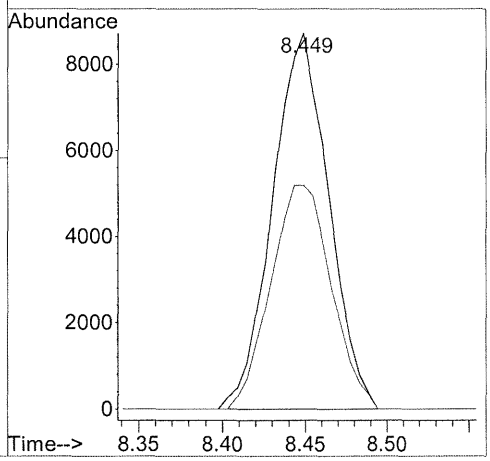


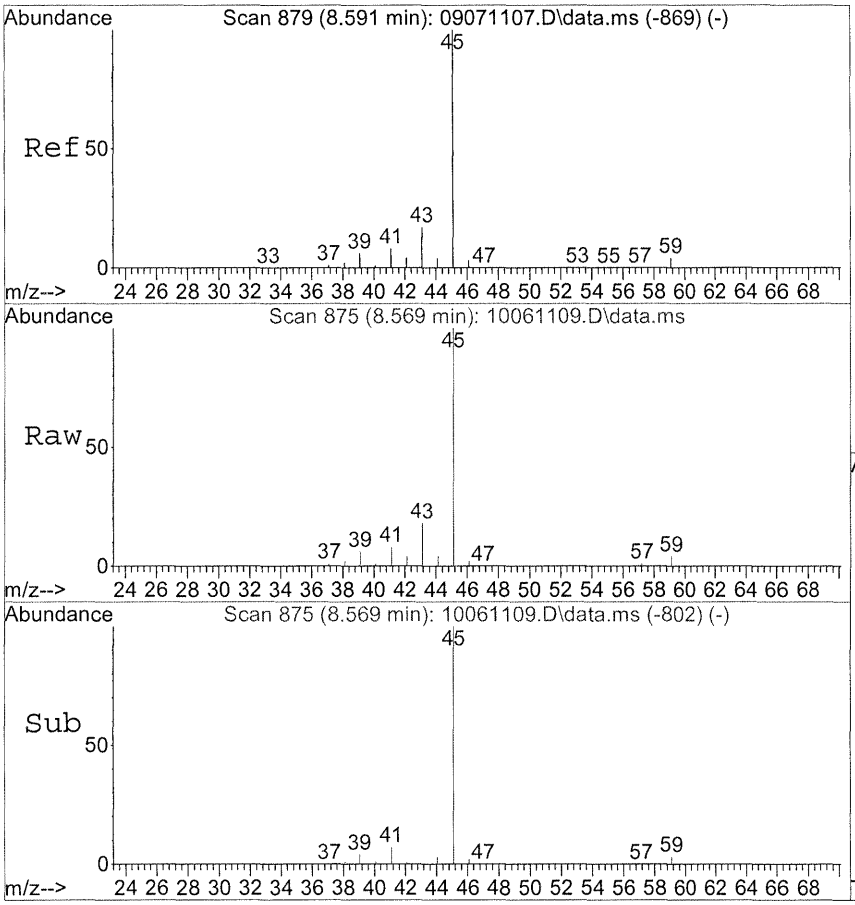


#14
Trichlorofluoromethane
Concen: 0.83 ng
RT: 8.45 min Scan# 854
Delta R.T. -0.000 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion:101 Resp: 20684

Ion	Ratio	Lower	Upper
101	100		
103	64.1	44.4	84.4

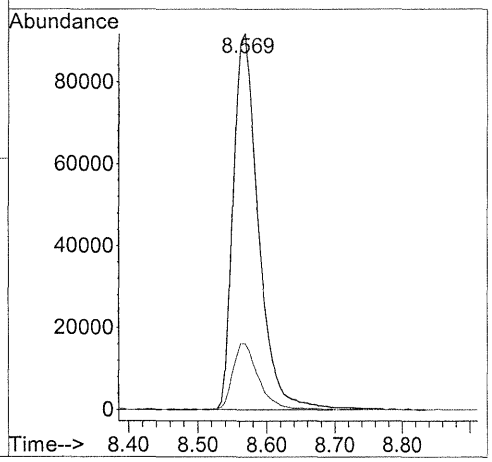


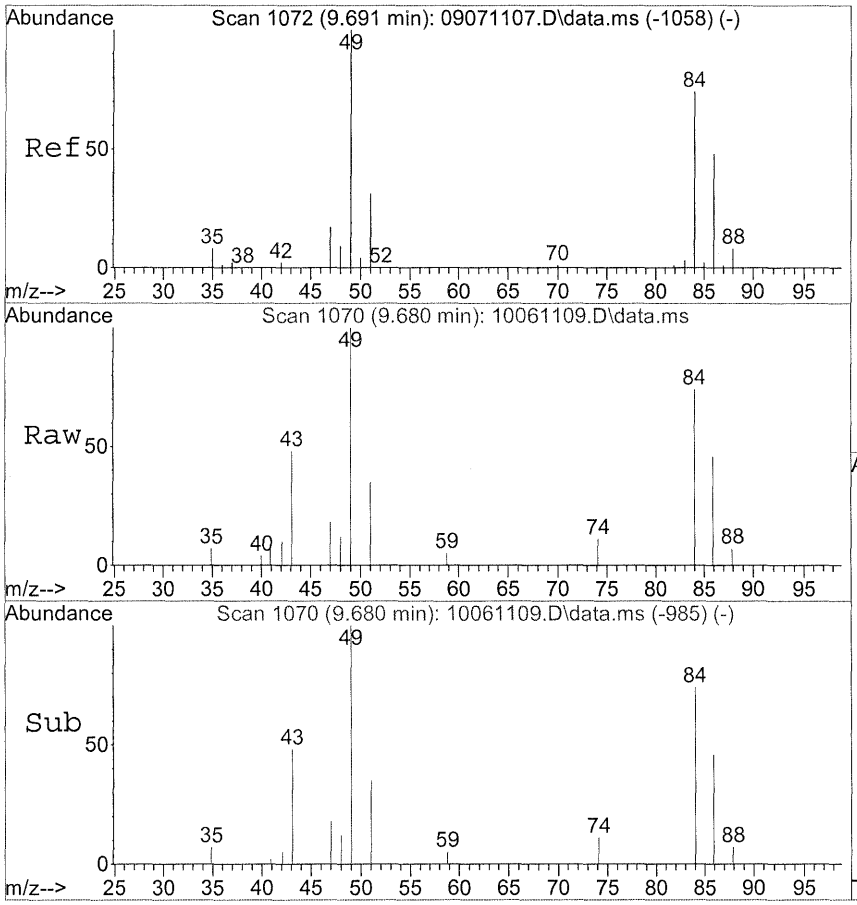


#15
2-Propanol (Isopropanol)
Concen: 6.67 ng
RT: 8.57 min Scan# 875
Delta R.T. -0.085 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 45 Resp: 234049

Ion	Ratio	Lower	Upper
45	100		
43	17.7	1.4	41.4

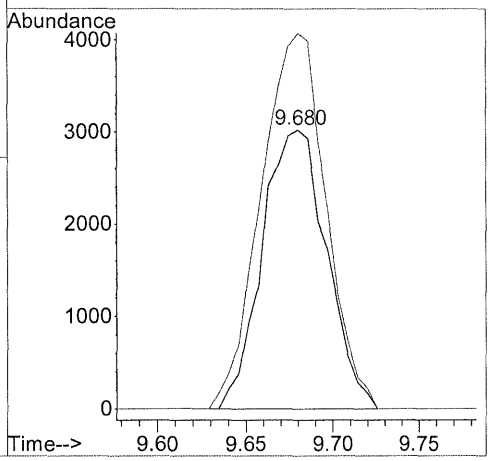


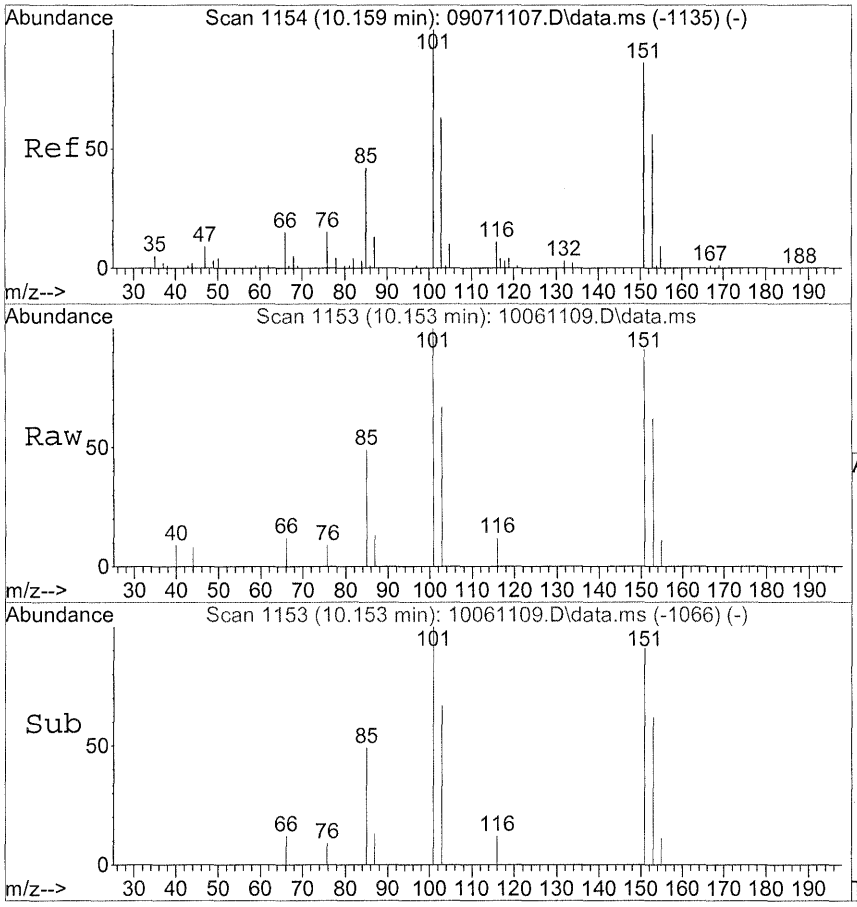


#19
Methylene Chloride
Concen: 0.50 ng
RT: 9.68 min Scan# 1070
Delta R.T. -0.017 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 84 Resp: 7763

Ion	Ratio	Lower	Upper
84	100		
49	135.9	90.4	140.4

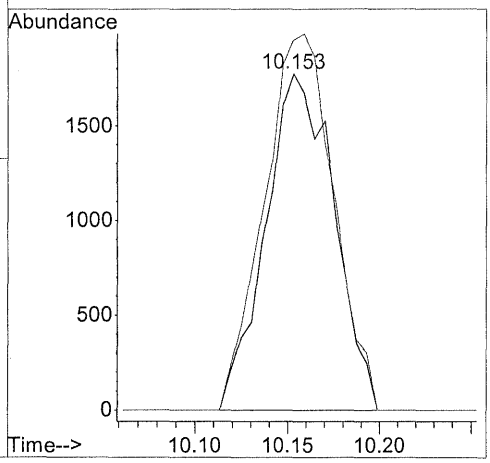


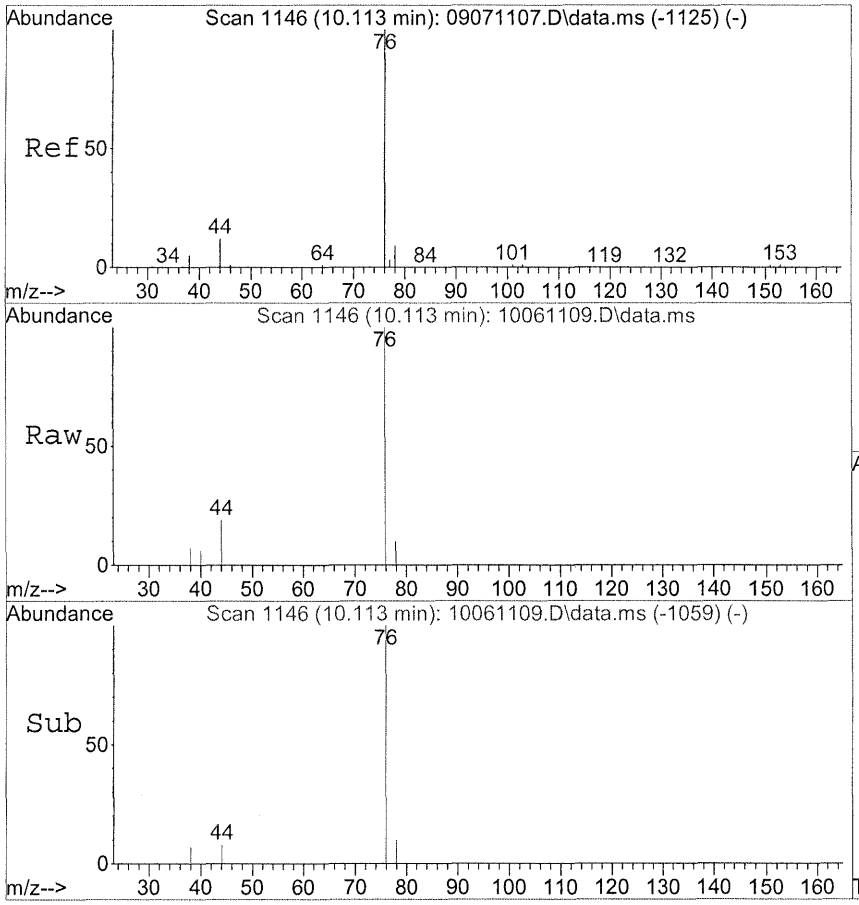


#21
Trichlorotrifluoroethane
Concen: 0.35 ng
RT: 10.15 min Scan# 1153
Delta R.T. -0.006 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion:151 Resp: 4575

Ion	Ratio	Lower	Upper
151	100		
101	113.9	99.7	139.7

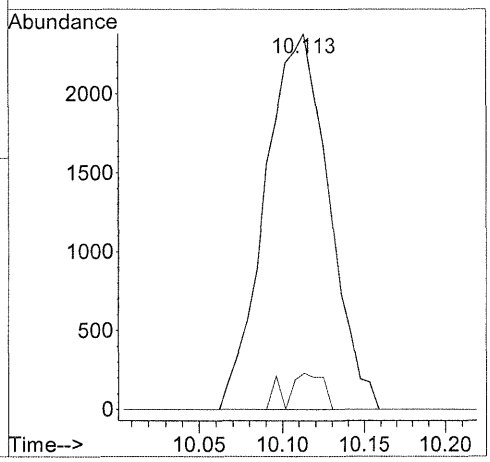


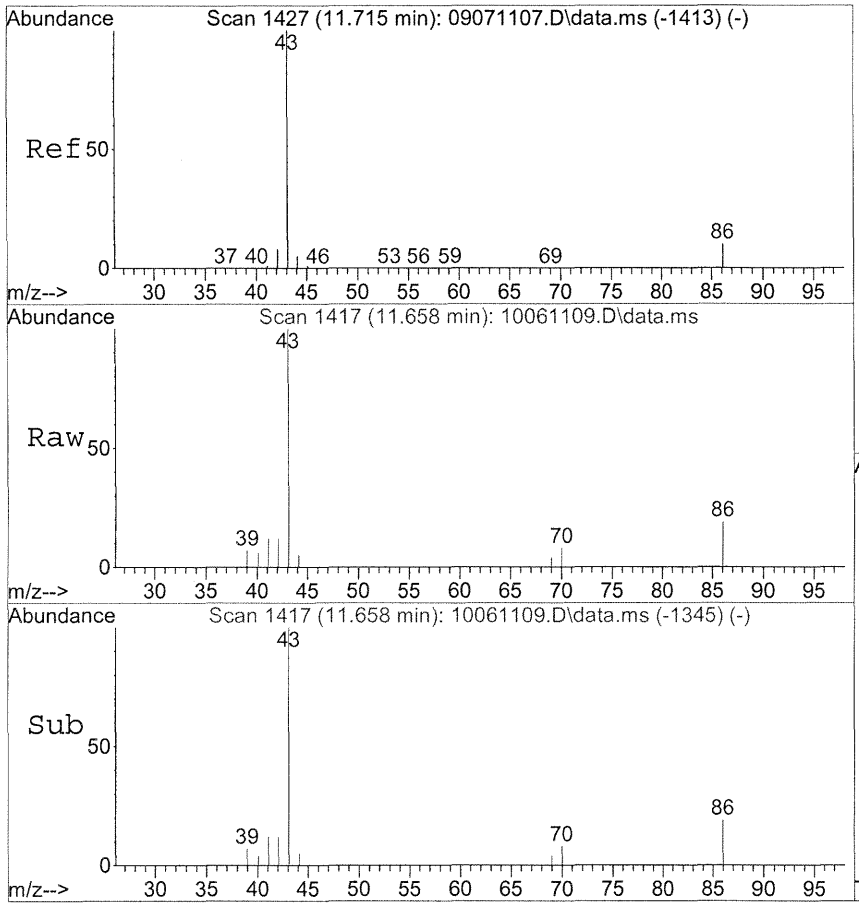


#22
Carbon Disulfide
Concen: 0.12 ng
RT: 10.11 min Scan# 1146
Delta R.T. -0.006 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 76 Resp: 6394

Ion	Ratio	Lower	Upper
76	100		
78	5.5	0.0	29.4

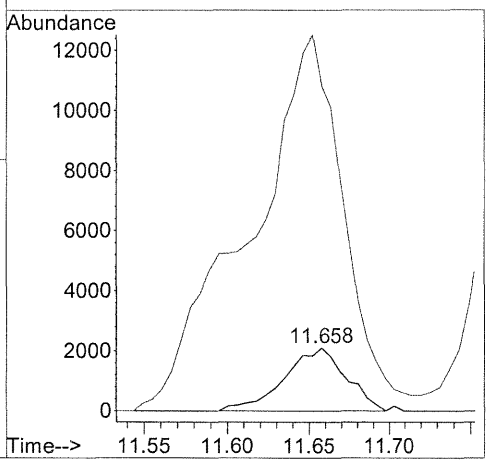


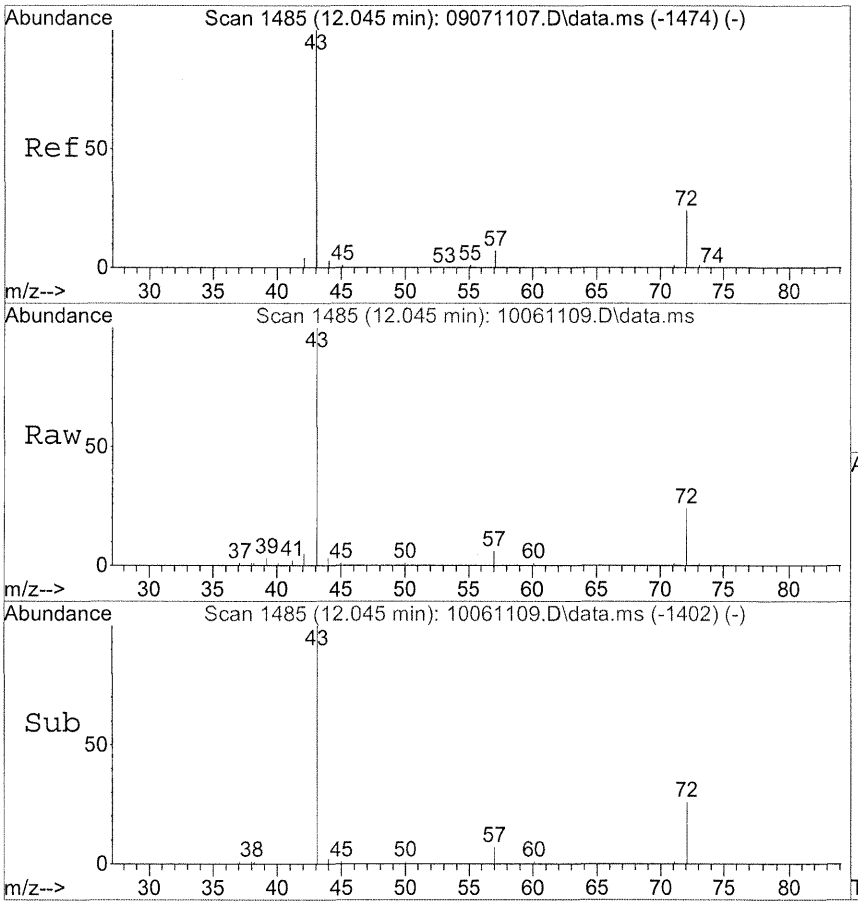


#26
Vinyl Acetate
Concen: 1.25 ng m
RT: 11.66 min Scan# 1417
Delta R.T. -0.091 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 86 Resp: 5505

Ion	Ratio	Lower	Upper
86	100		
43	454.4	825.7	865.7#

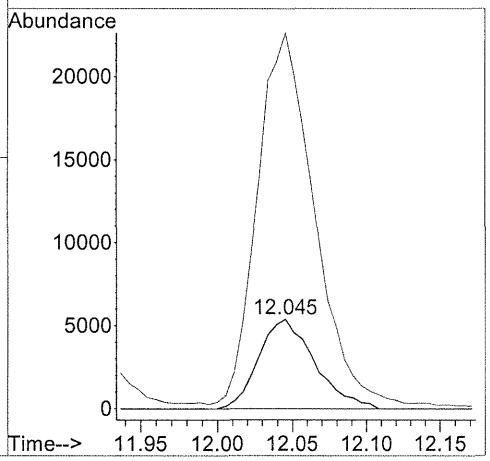


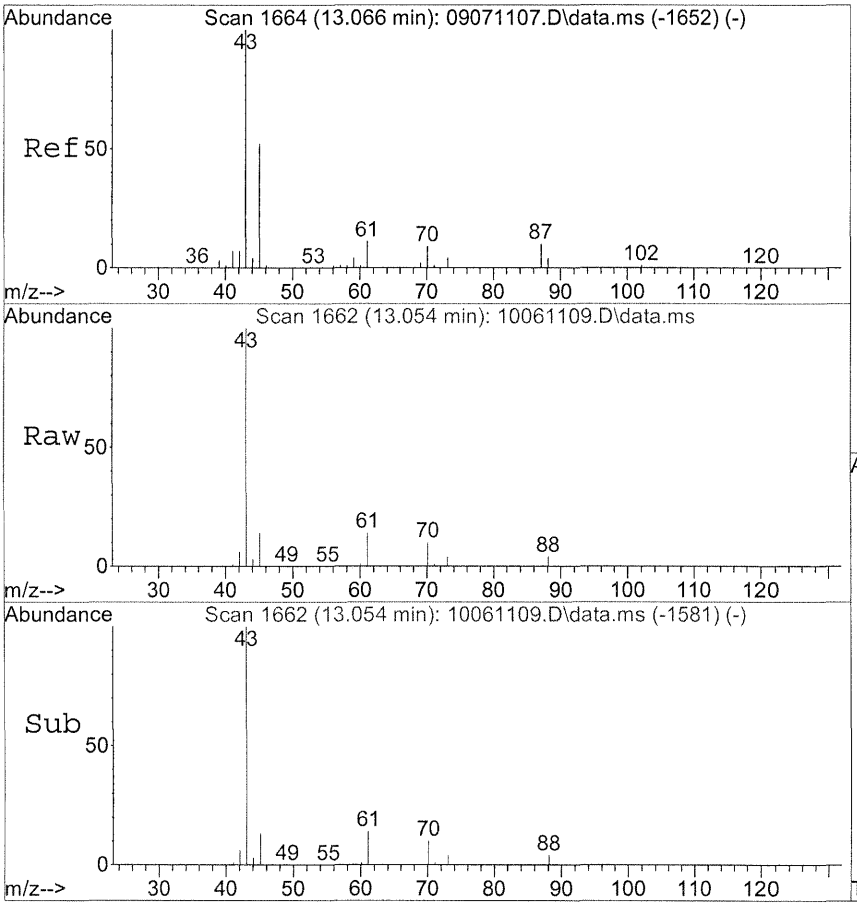


#27
2-Butanone (MEK)
Concen: 1.30 ng
RT: 12.05 min Scan# 1485
Delta R.T. -0.029 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 72 Resp: 13946

Ion	Ratio	Lower	Upper
72	100		
43	440.1	304.7	344.7#

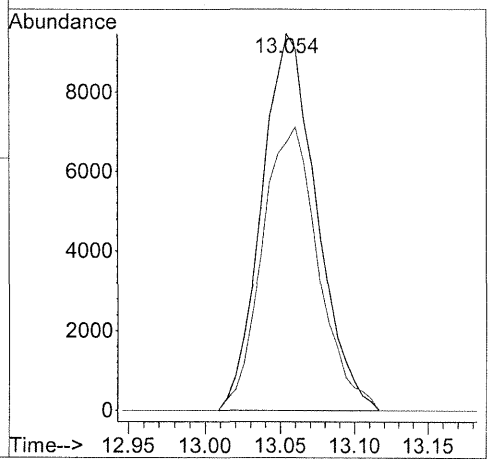


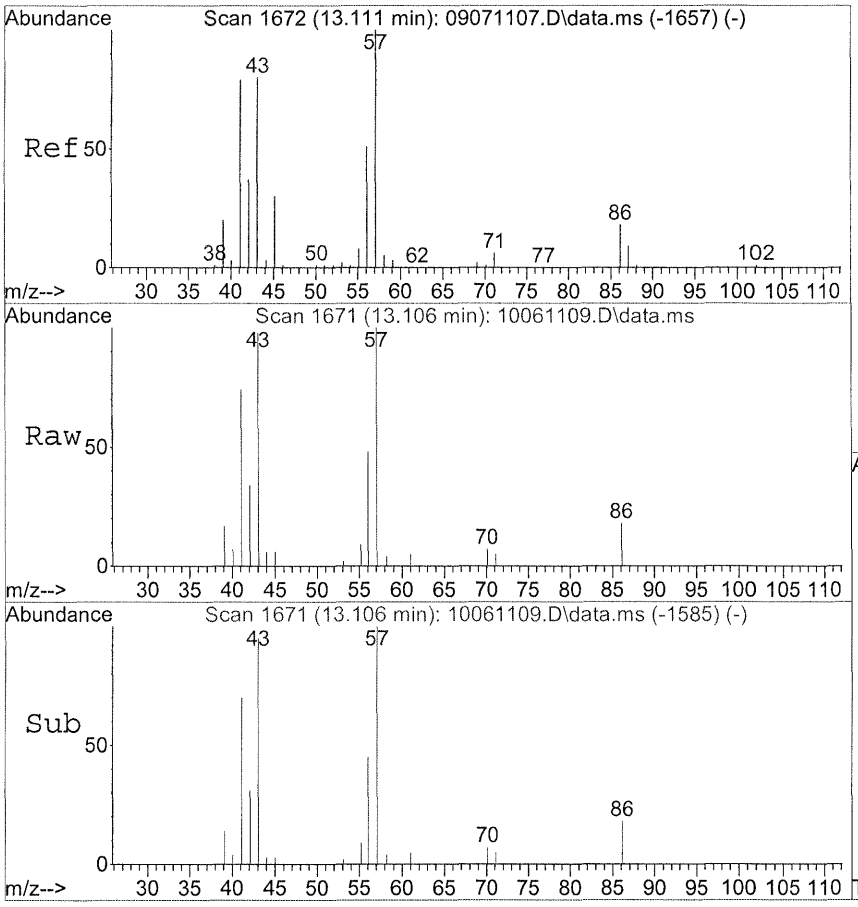


#30
Ethyl Acetate
Concen: 4.15 ng
RT: 13.05 min Scan# 1662
Delta R.T. -0.040 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 61 Resp: 24188

Ion	Ratio	Lower	Upper
61	100		
70	76.9	75.3	115.3

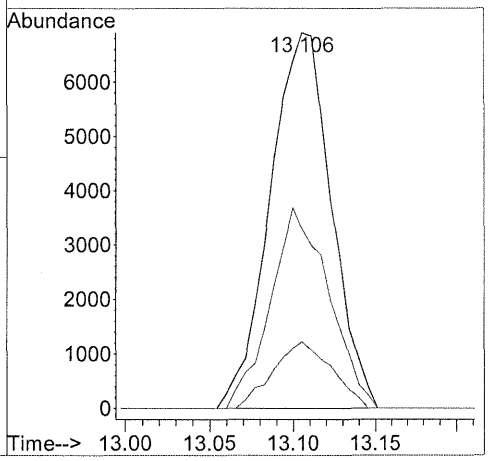


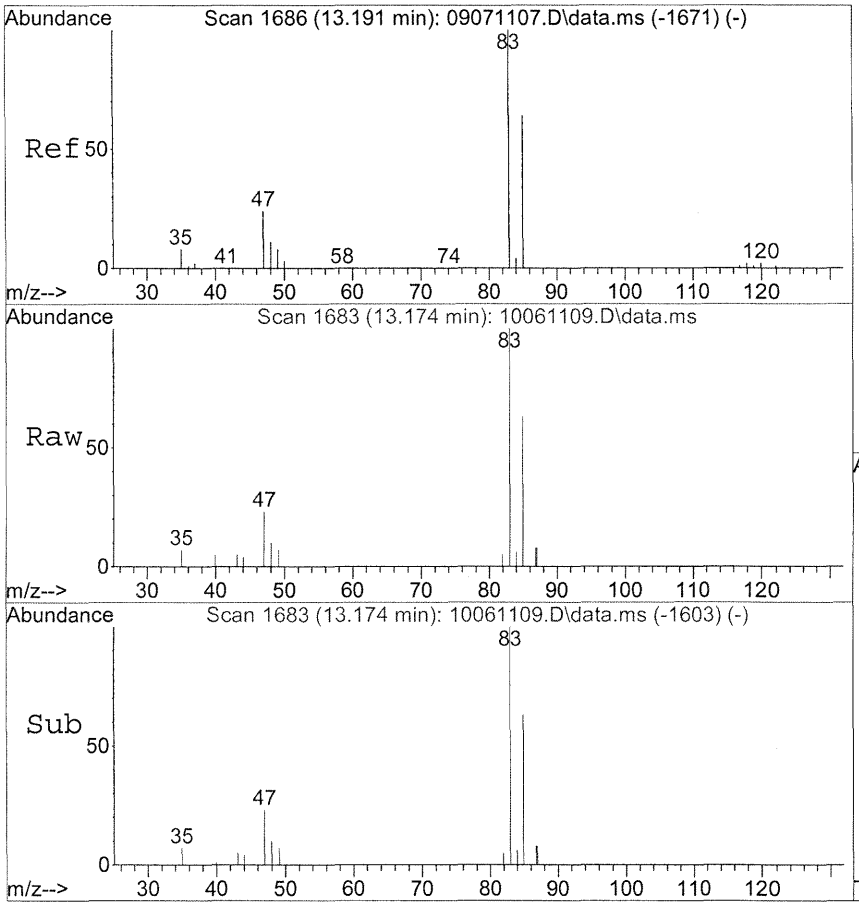


#31
n-Hexane
Concen: 0.59 ng
RT: 13.11 min Scan# 1671
Delta R.T. -0.012 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 57 Resp: 17765

Ion	Ratio	Lower	Upper
57	100		
56	50.8	41.8	62.8
86	16.9	17.0	25.4#

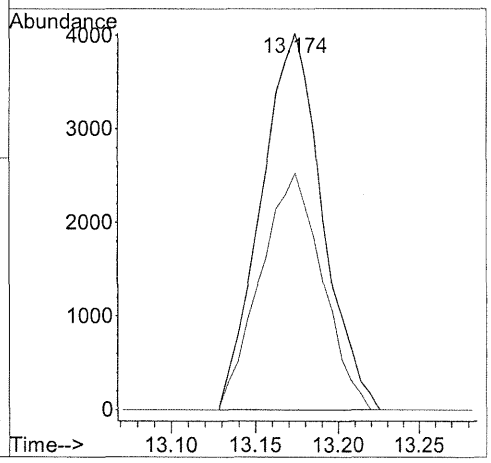


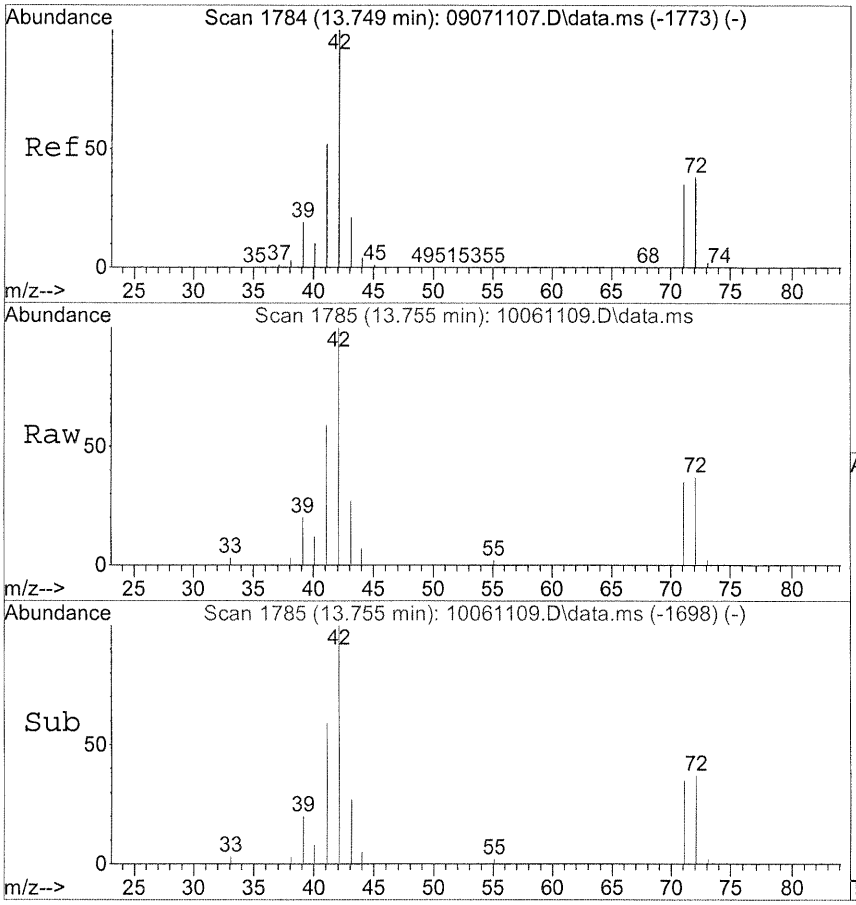


#32
Chloroform
Concen: 0.45 ng
RT: 13.17 min Scan# 1683
Delta R.T. -0.046 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 83 Resp: 10305

Ion	Ratio	Lower	Upper
83	100		
85	63.4	45.3	85.3

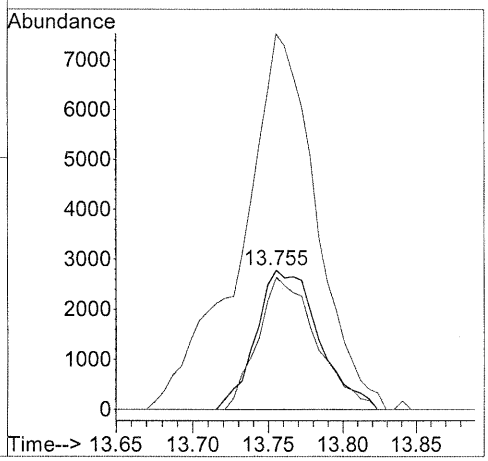


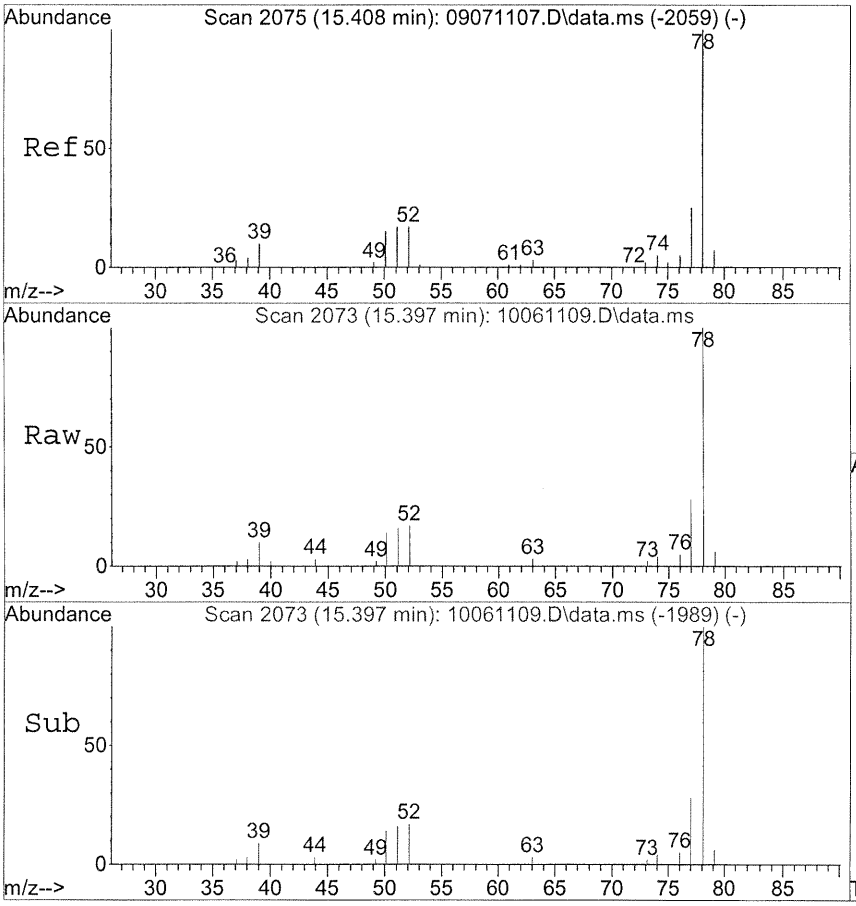


#34
Tetrahydrofuran (THF)
Concen: 0.81 ng
RT: 13.76 min Scan# 1785
Delta R.T. -0.006 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 72 Resp: 8096

Ion	Ratio	Lower	Upper
72	100		
71	88.6	75.1	115.1
42	324.4	168.1	208.1#

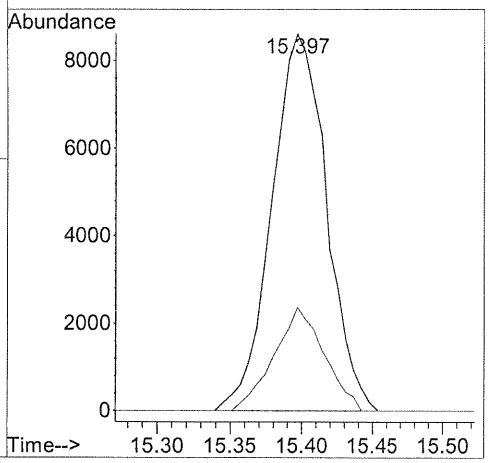


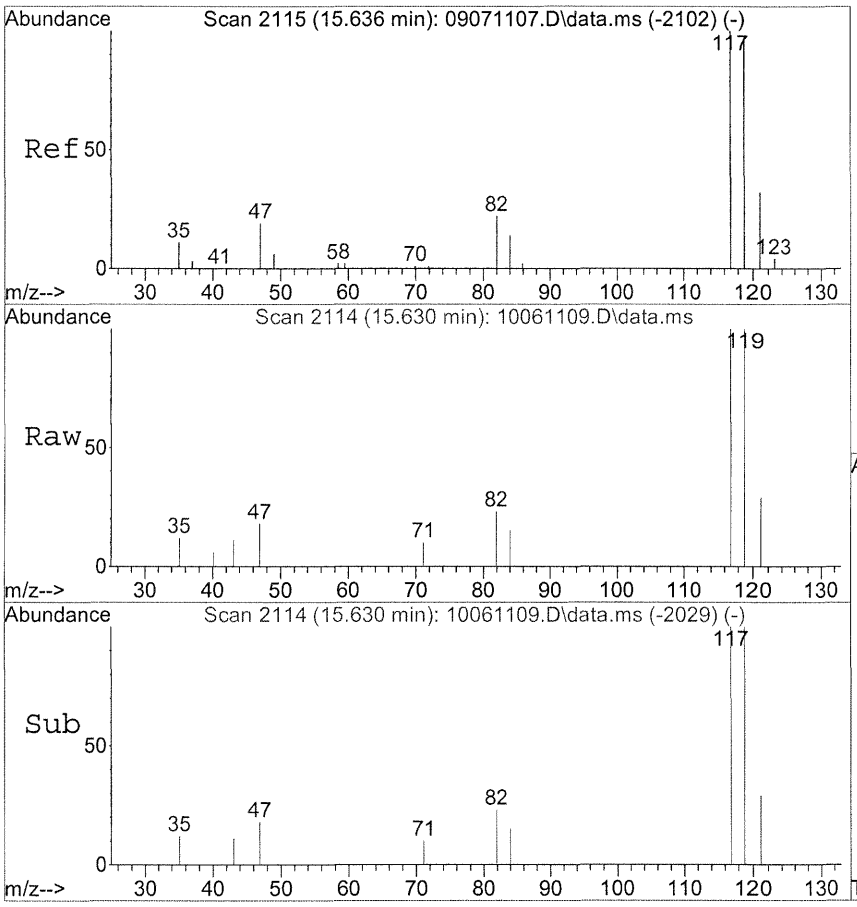


#41
Benzene
Concen: 0.38 ng
RT: 15.40 min Scan# 2073
Delta R.T. -0.023 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 78 Resp: 22988

Ion	Ratio	Lower	Upper
78	100		
77	25.1	4.0	44.0

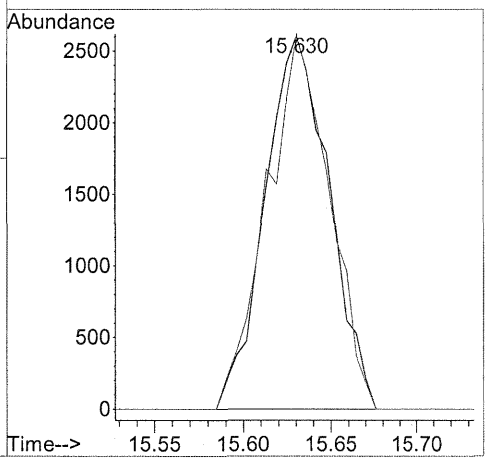


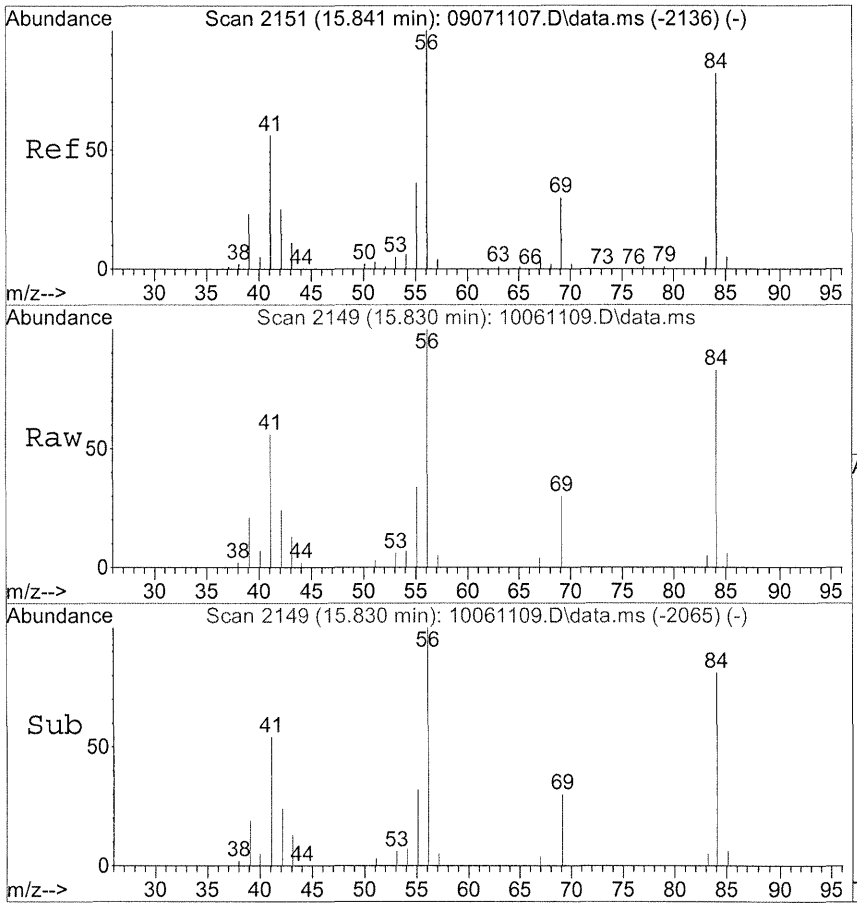


#42
Carbon Tetrachloride
Concen: 0.36 ng
RT: 15.63 min Scan# 2114
Delta R.T. -0.017 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion:117 Resp: 6636

Ion	Ratio	Lower	Upper
117	100		
119	98.3	77.0	117.0

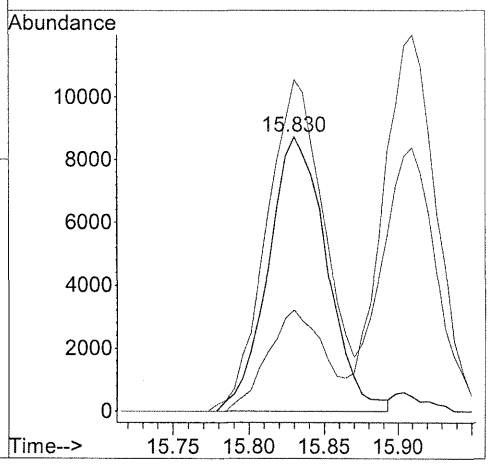


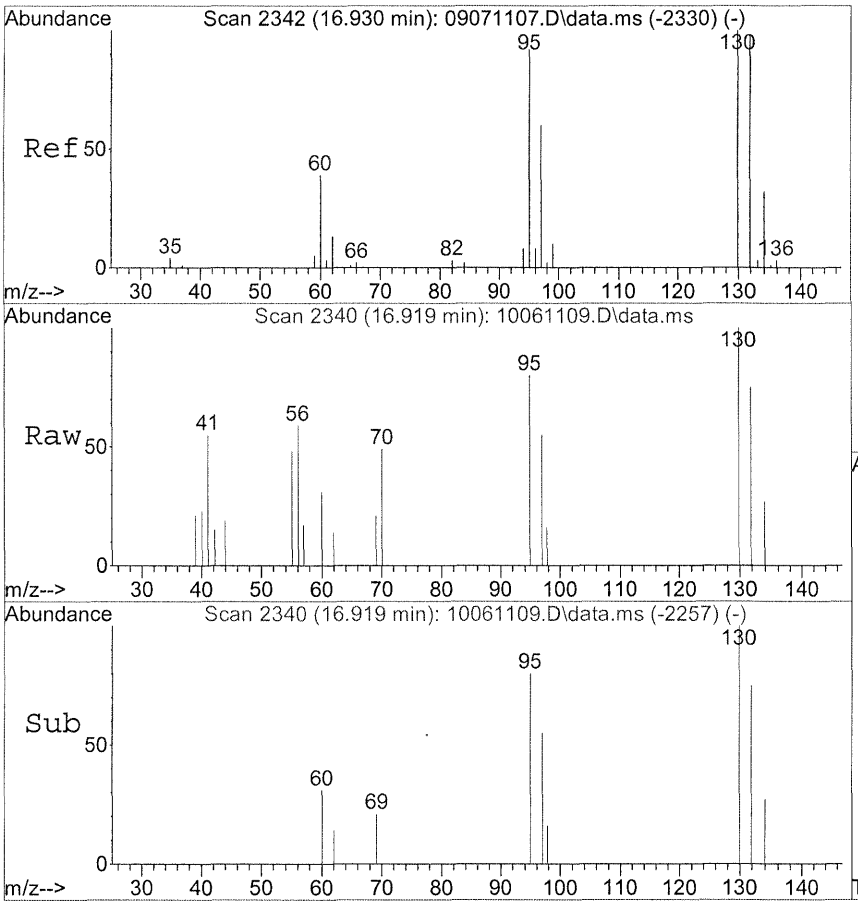


#43
Cyclohexane
Concen: 0.90 ng
RT: 15.83 min Scan# 2149
Delta R.T. -0.023 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 84 Resp: 23488

Ion	Ratio	Lower	Upper
84	100		
69	35.8	16.9	56.9
56	120.0	87.7	127.7

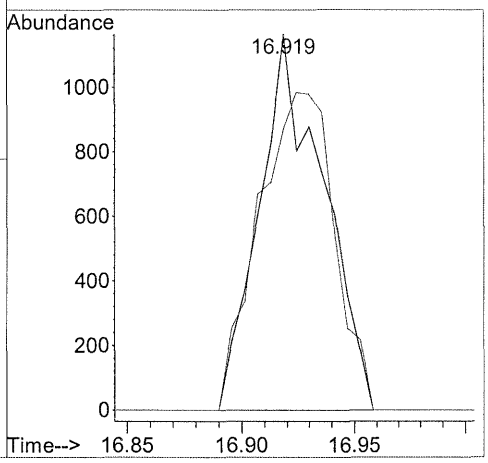


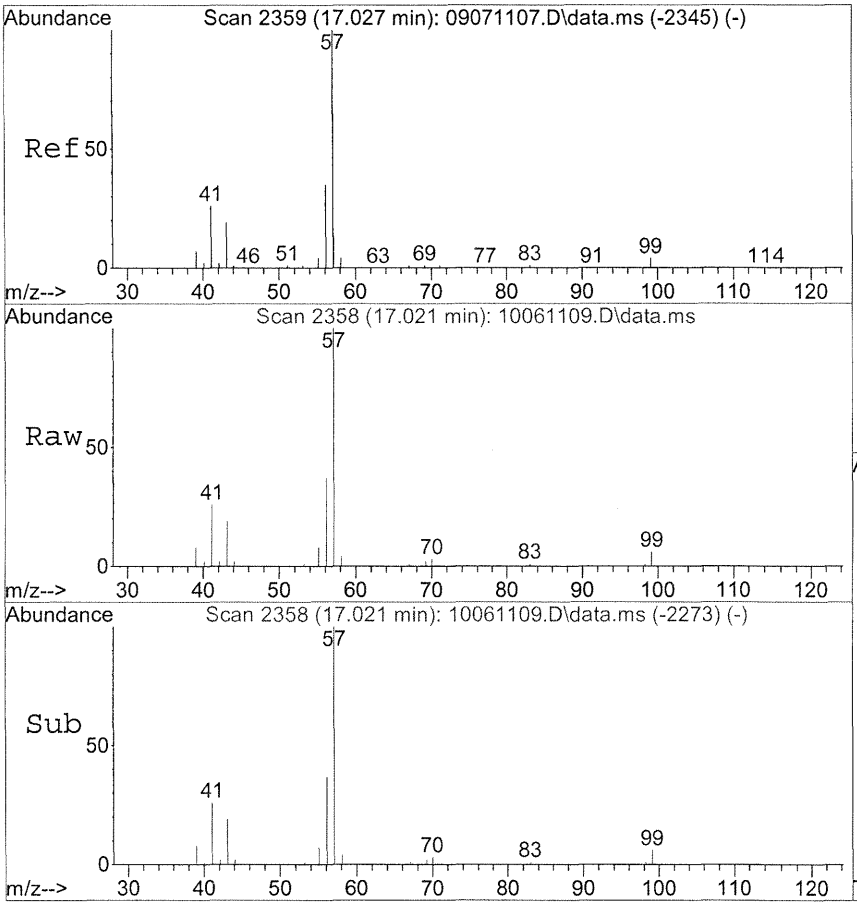


#47
Trichloroethene
Concen: 0.13 ng
RT: 16.92 min Scan# 2340
Delta R.T. -0.029 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion:130 Resp: 2300

Ion	Ratio	Lower	Upper
130	100		
132	100.0	75.8	115.8

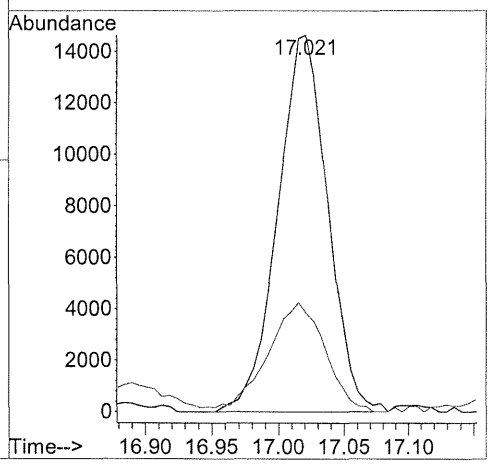


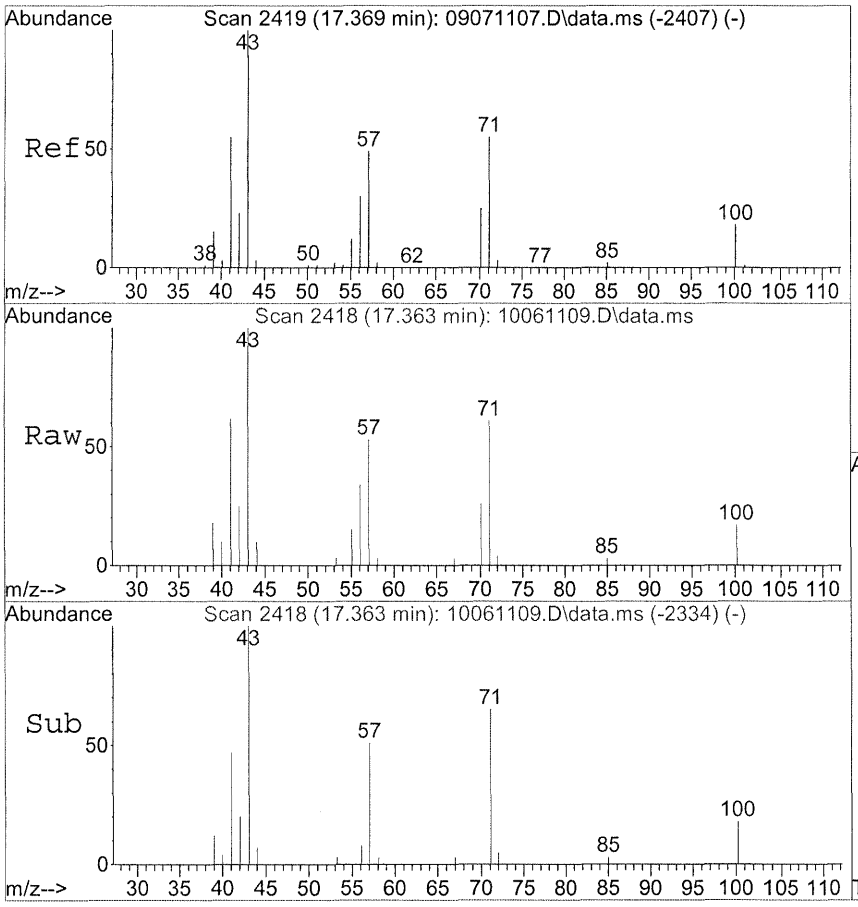


#49
2,2,4-Trimethylpentane (Isooc
Concen: 0.52 ng
RT: 17.02 min Scan# 2358
Delta R.T. -0.017 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 57 Resp: 38756

Ion	Ratio	Lower	Upper
57	100		
41	33.1	10.2	50.2

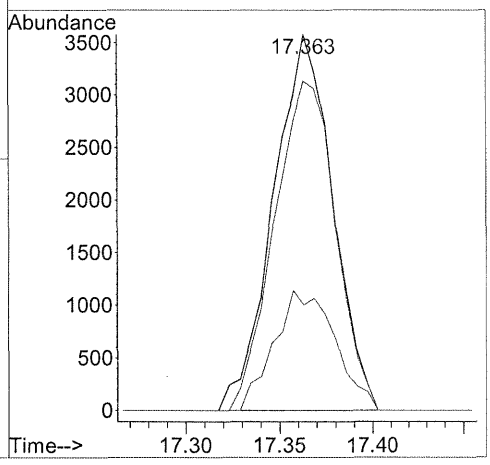


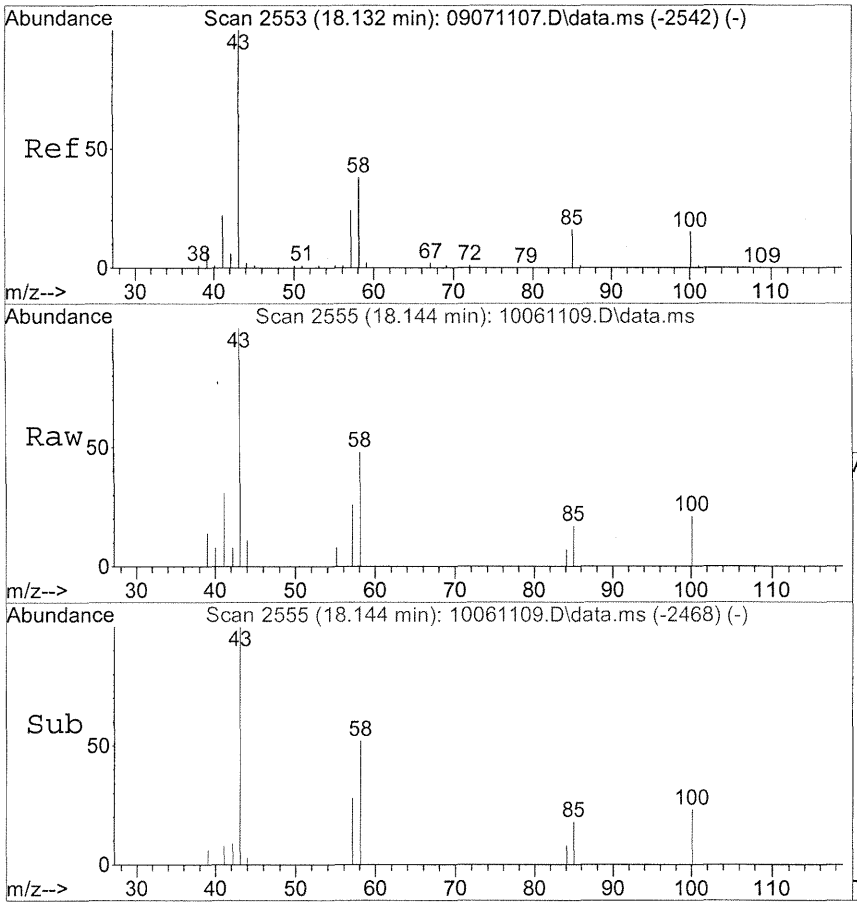


#51
n-Heptane
Concen: 0.44 ng
RT: 17.36 min Scan# 2418
Delta R.T. -0.023 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 71 Resp: 7893

Ion	Ratio	Lower	Upper
71	100		
57	90.2	59.7	99.7
100	32.6	15.2	55.2

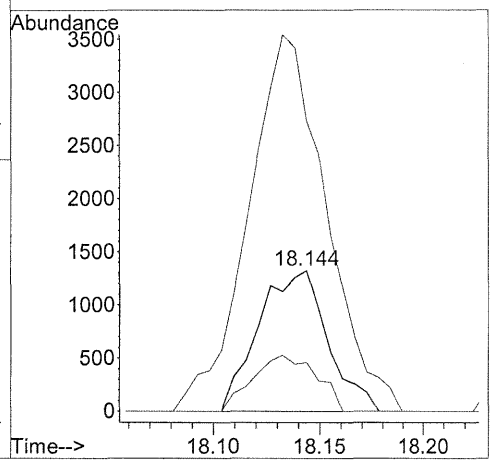


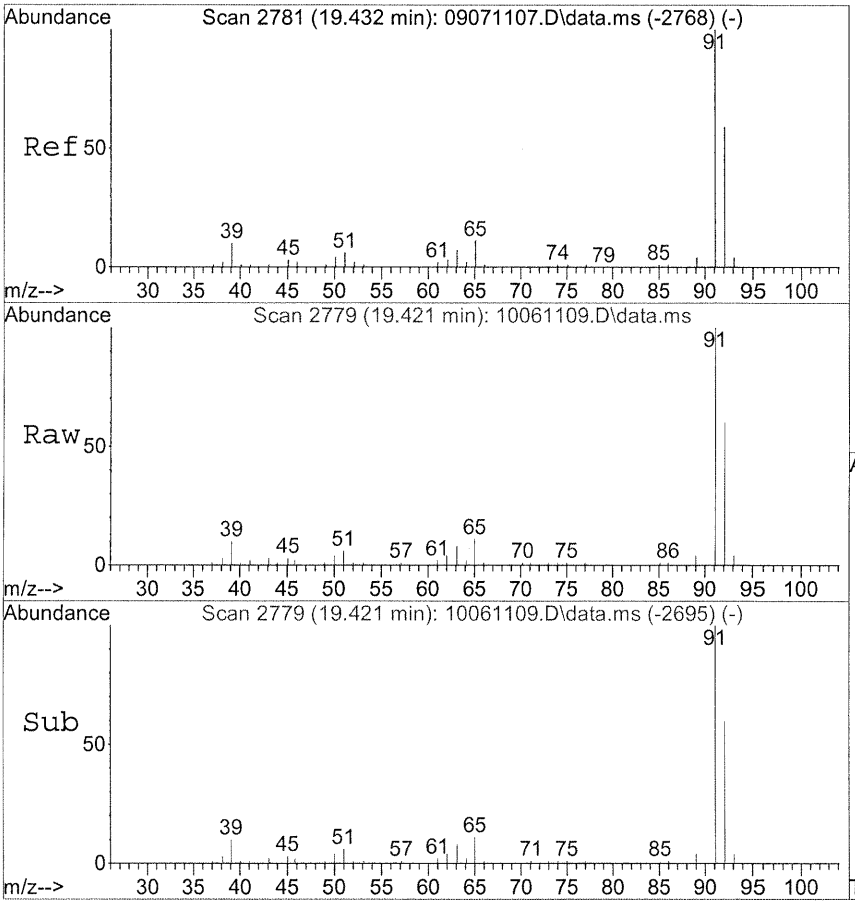


#53
4-Methyl-2-pentanone
Concen: 0.20 ng
RT: 18.14 min Scan# 2555
Delta R.T. -0.006 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 58 Resp: 2985

Ion	Ratio	Lower	Upper
58	100		
43	301.7	195.7	293.5#
85	36.8	43.7	65.5#

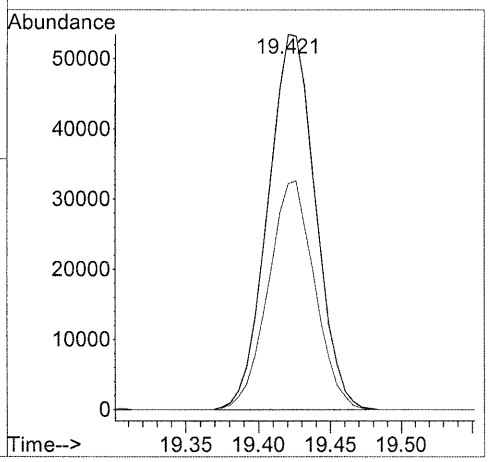


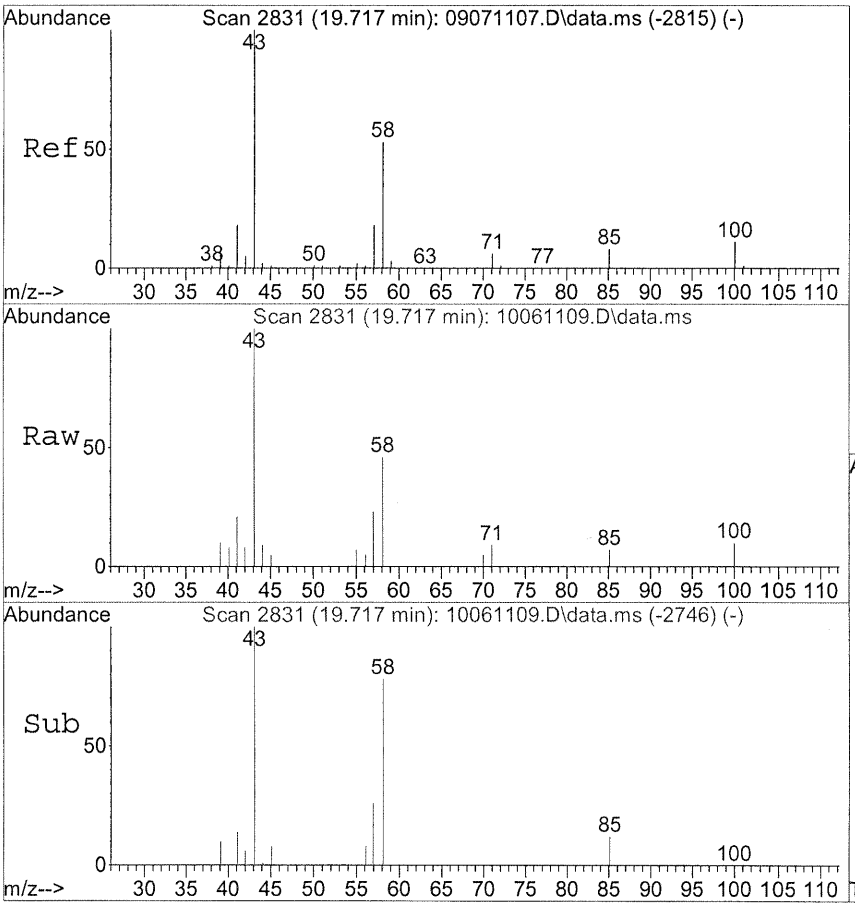


#58
Toluene
Concen: 1.88 ng
RT: 19.42 min Scan# 2779
Delta R.T. -0.023 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 91 Resp: 122733

Ion	Ratio	Lower	Upper
91	100		
92	59.6	38.8	78.8

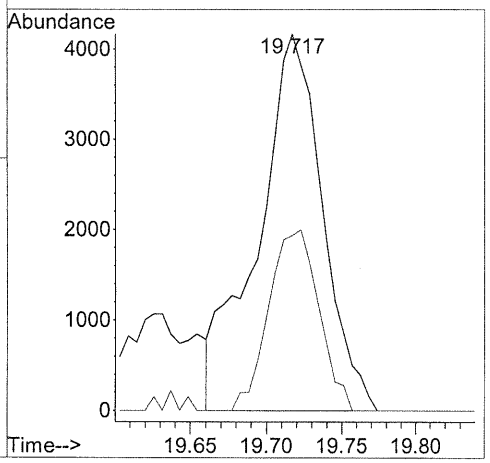


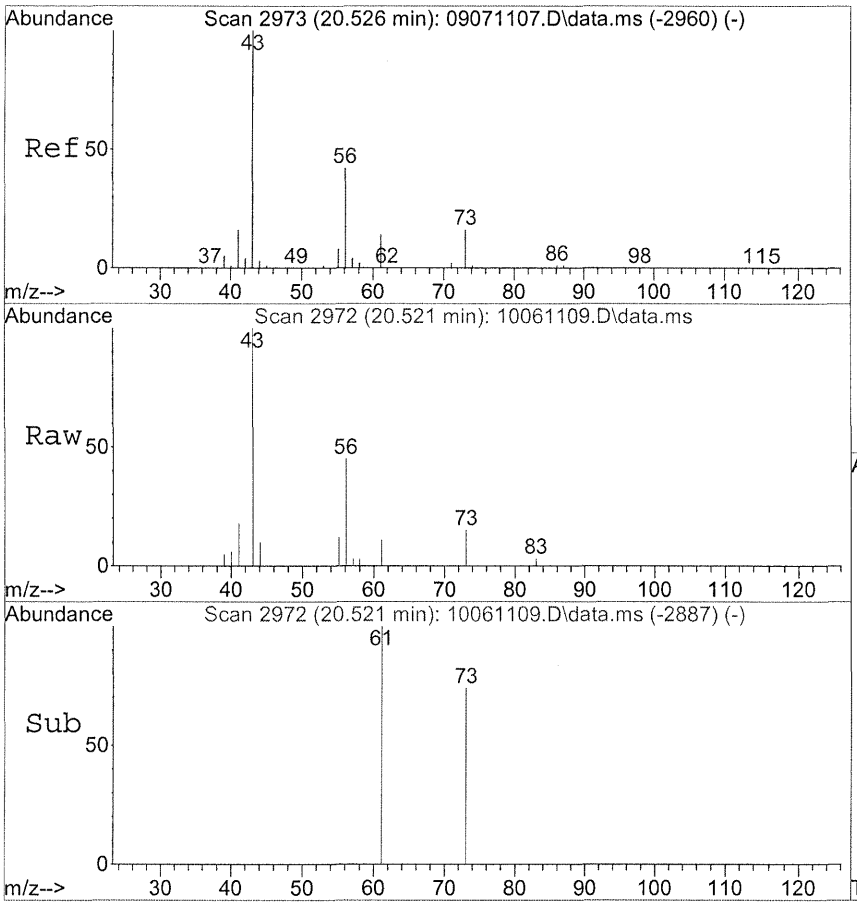


#59
2-Hexanone
Concen: 0.34 ng
RT: 19.72 min Scan# 2831
Delta R.T. -0.017 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 43 Resp: 12367

Ion	Ratio	Lower	Upper
43	100		
58	37.2	37.7	77.7#

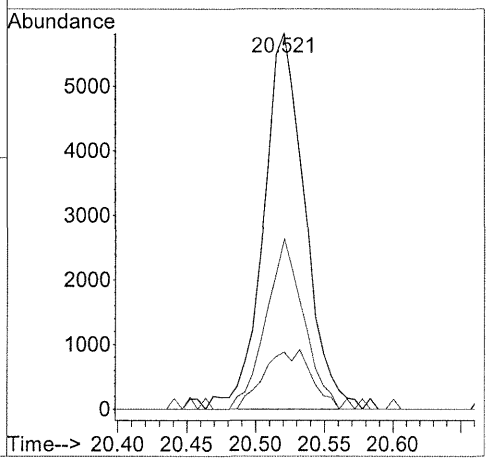


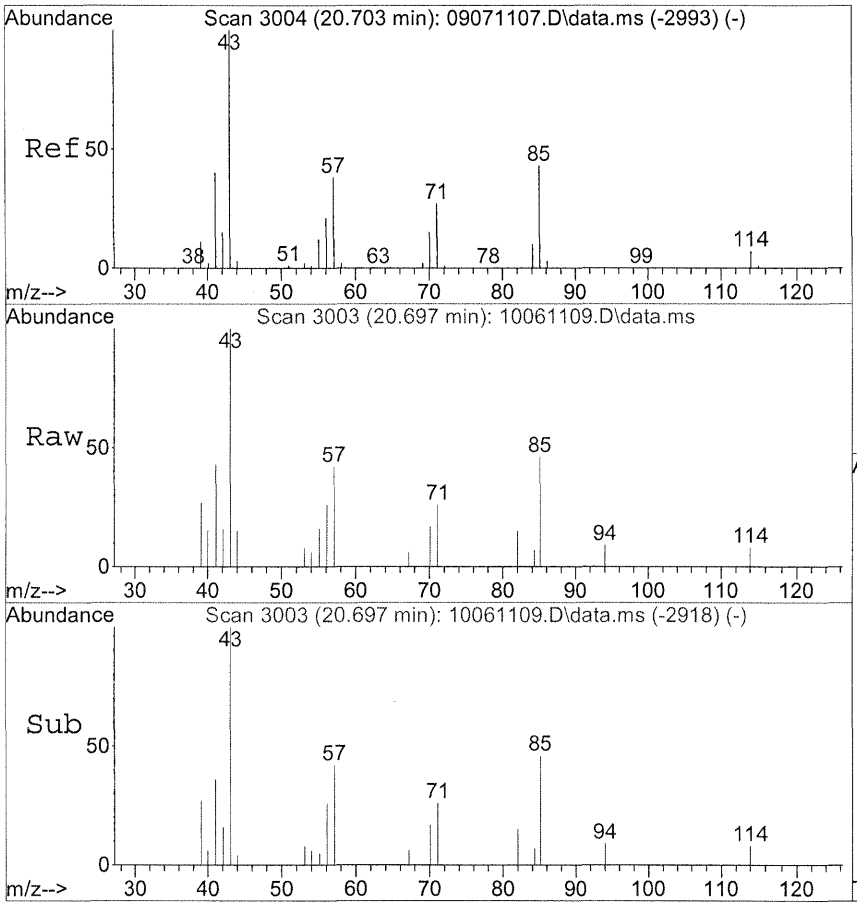


#62
n-Butyl Acetate
Concen: 0.29 ng
RT: 20.52 min Scan# 2972
Delta R.T. -0.017 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 43 Resp: 12239

Ion	Ratio	Lower	Upper
43	100		
56	41.9	23.6	63.6
73	17.7	0.1	40.1

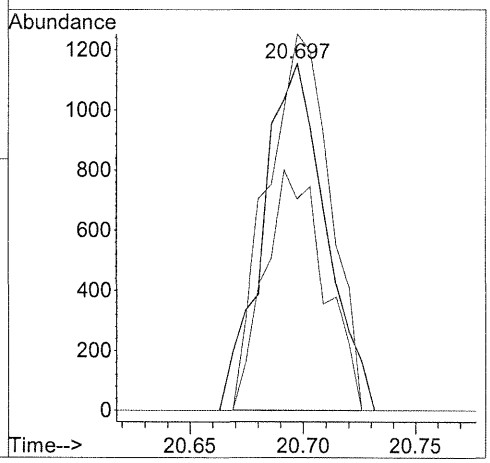


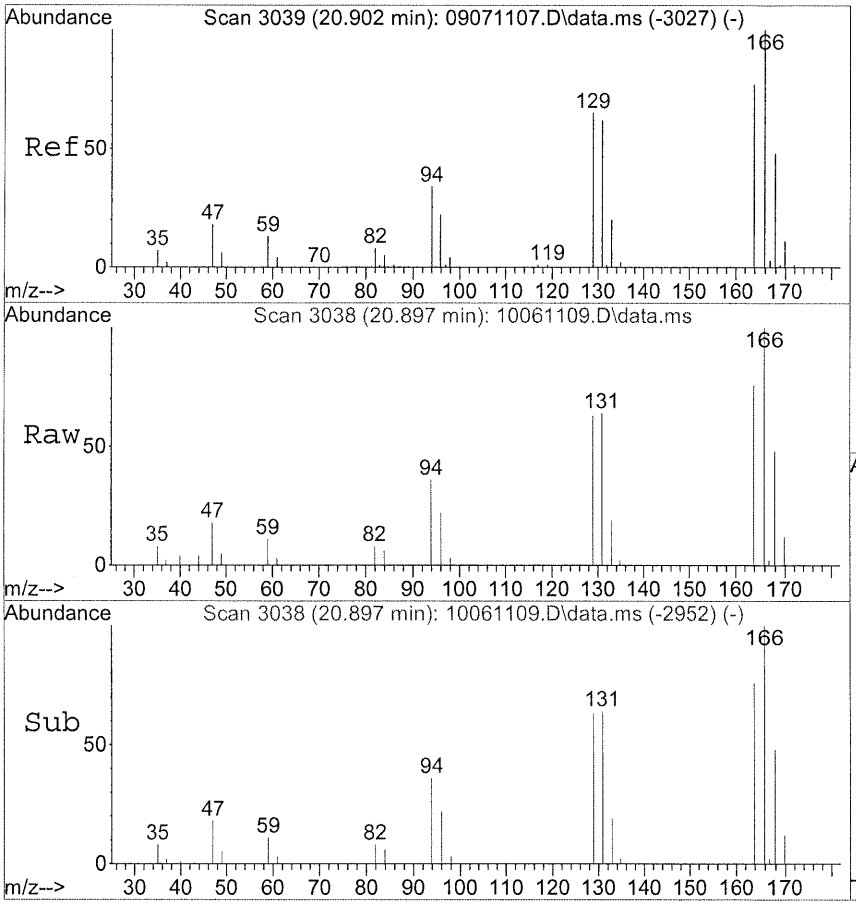


#63
n-Octane
Concen: 0.15 ng
RT: 20.70 min Scan# 3003
Delta R.T. -0.017 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 57 Resp: 2230

Ion	Ratio	Lower	Upper
57	100		
85	108.7	110.6	166.0#
71	65.6	61.0	91.6

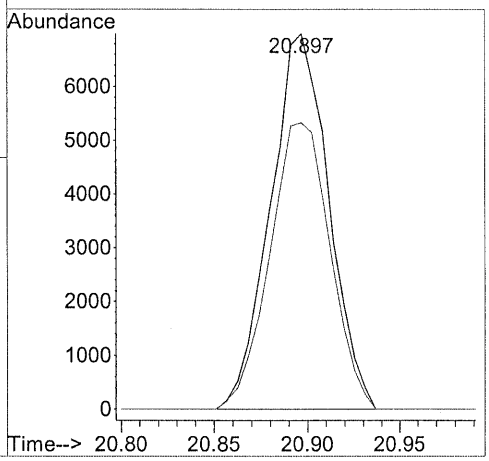


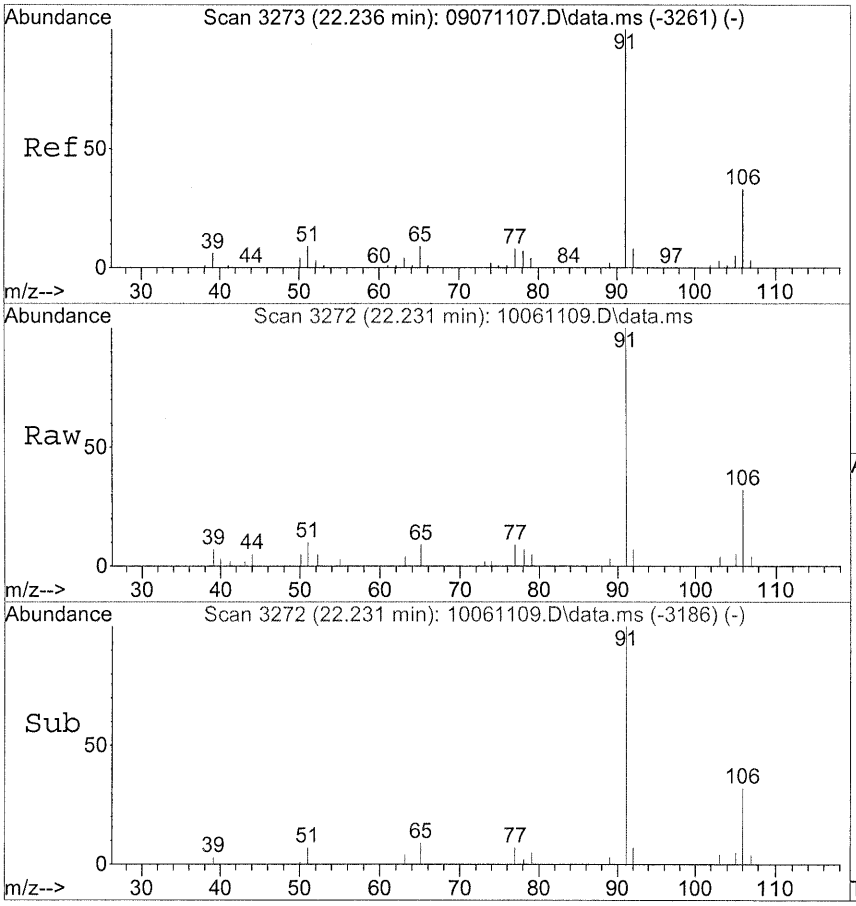


#64
Tetrachloroethene
Concen: 0.74 ng
RT: 20.90 min Scan# 3038
Delta R.T. -0.012 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion:166 Resp: 15176

Ion	Ratio	Lower	Upper
166	100		
164	78.9	58.2	98.2

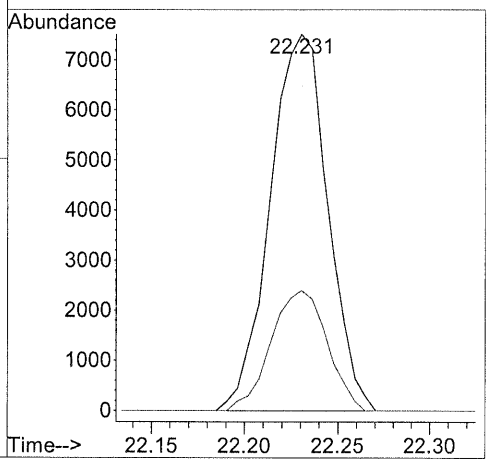


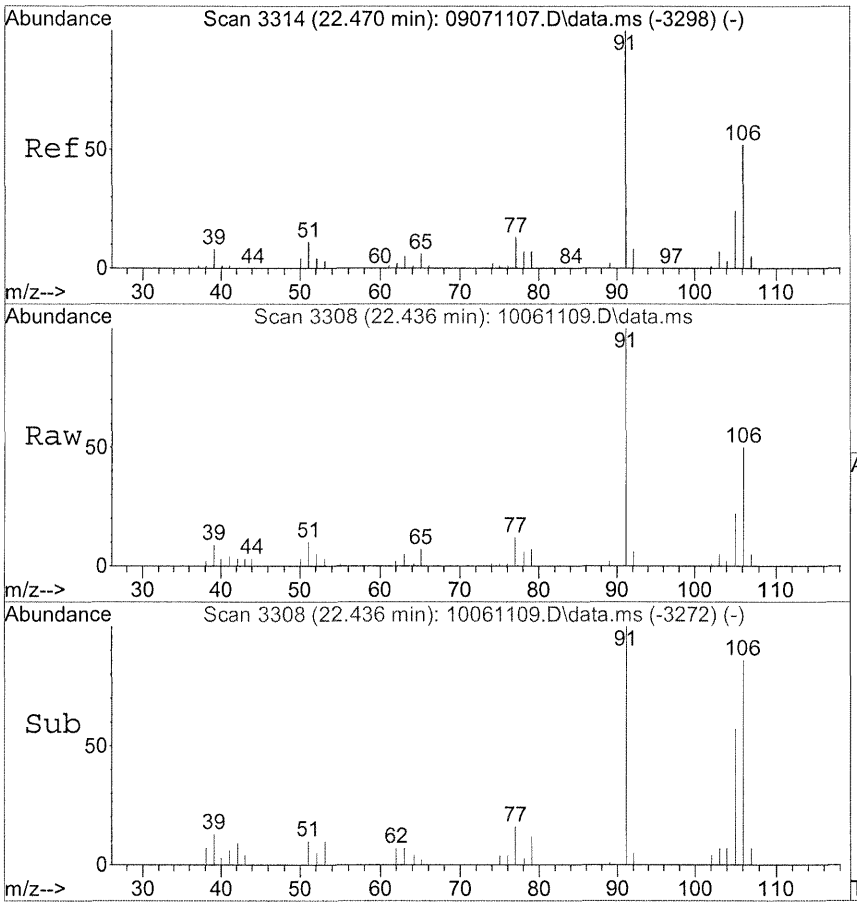


#66
Ethylbenzene
Concen: 0.22 ng
RT: 22.23 min Scan# 3272
Delta R.T. -0.011 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 91 Resp: 16053

Ion	Ratio	Lower	Upper
91	100		
106	31.1	12.0	52.0

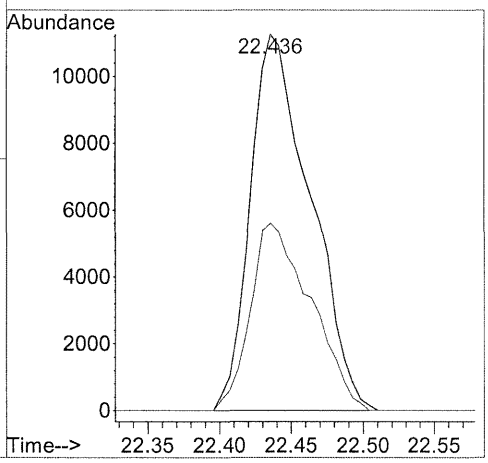


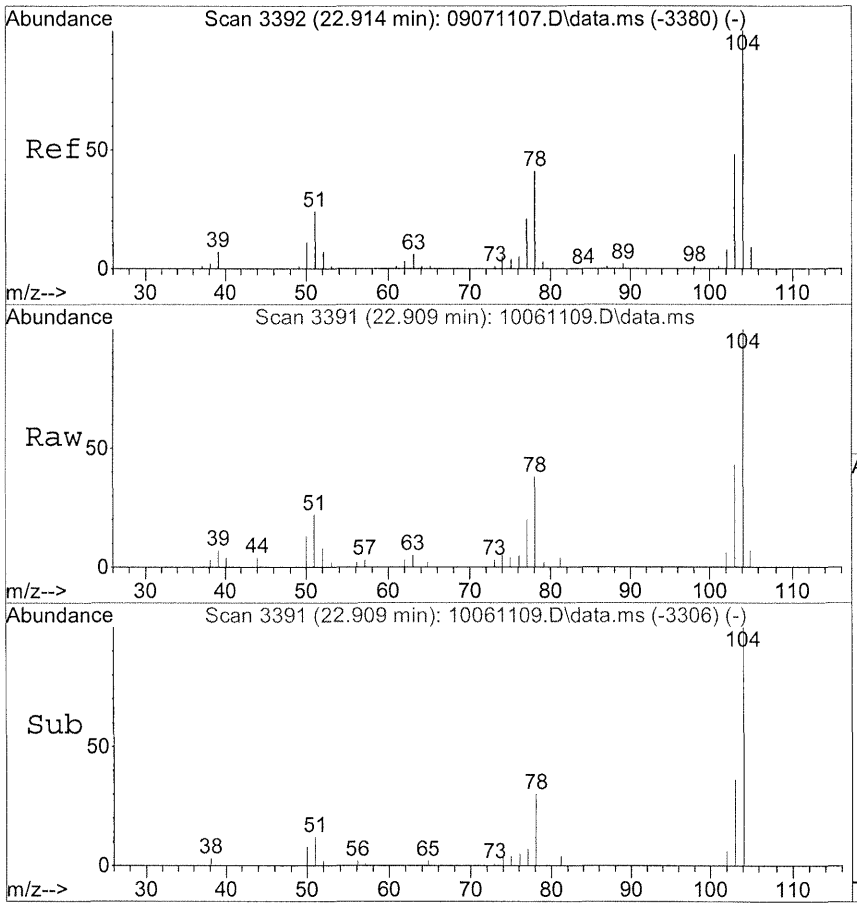


#67
m- & p-Xylenes
Concen: 0.58 ng
RT: 22.44 min Scan# 3308
Delta R.T. -0.046 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 91 Resp: 32787

Ion	Ratio	Lower	Upper
91	100		
106	50.0	27.4	67.4

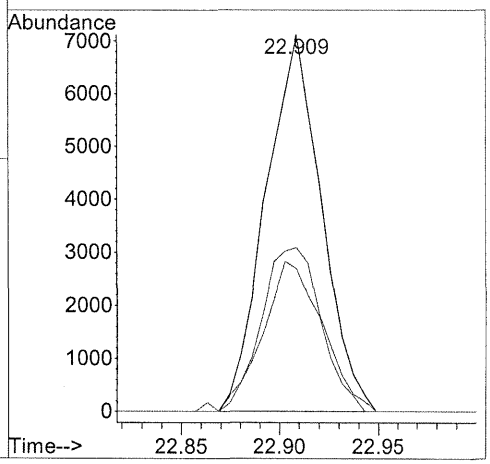


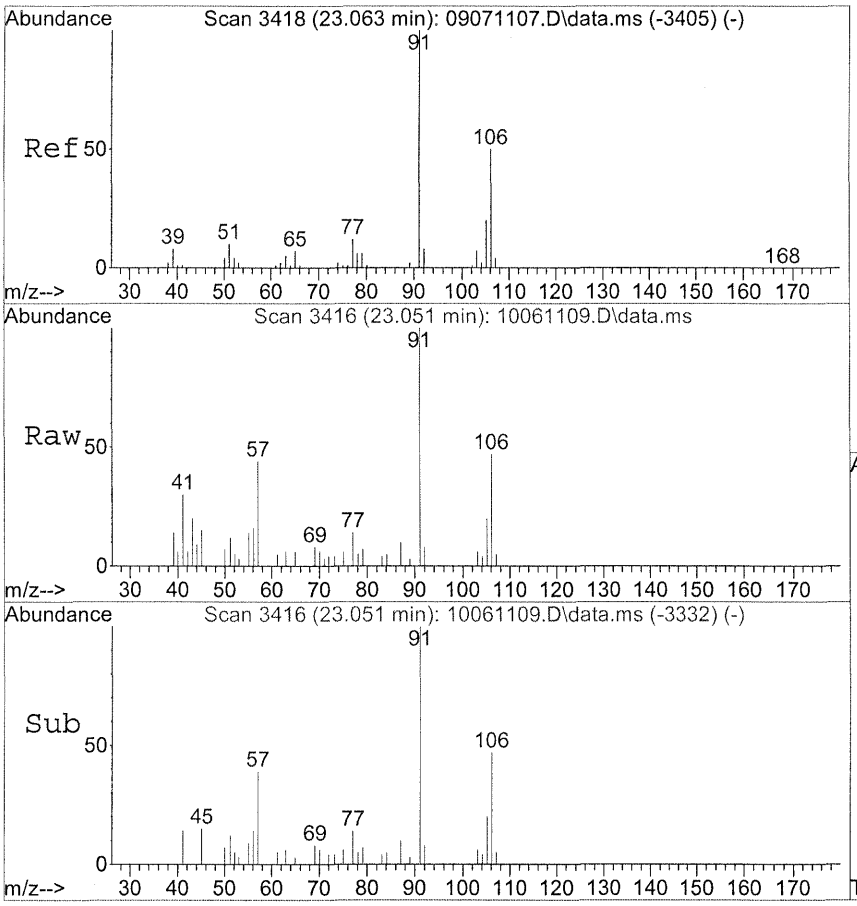


#69
Styrene
Concen: 0.31 ng
RT: 22.91 min Scan# 3391
Delta R.T. -0.017 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion:104 Resp: 13897

Ion	Ratio	Lower	Upper
104	100		
78	40.7	27.4	67.4
103	48.9	27.3	67.3

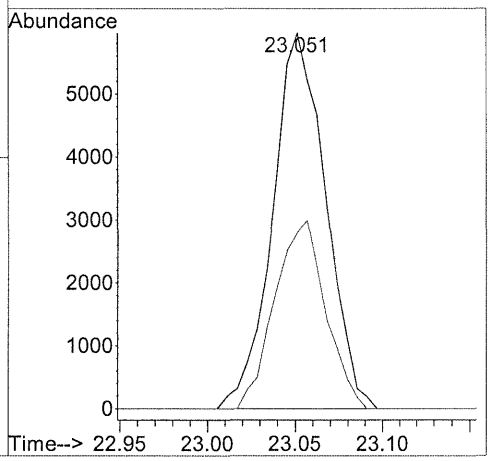


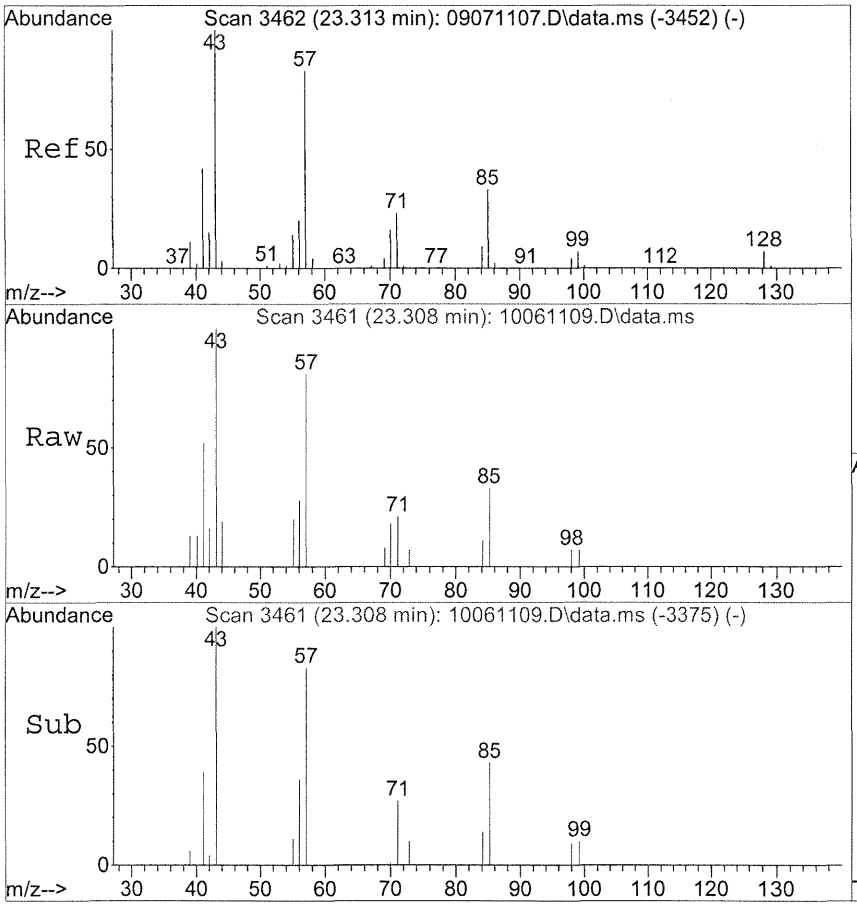


#70
o-Xylene
Concen: 0.21 ng
RT: 23.05 min Scan# 3416
Delta R.T. -0.023 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 91 Resp: 12511

Ion	Ratio	Lower	Upper
91	100		
106	48.0	25.7	65.7

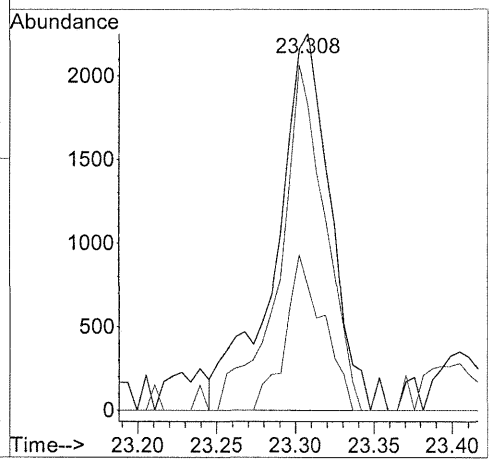


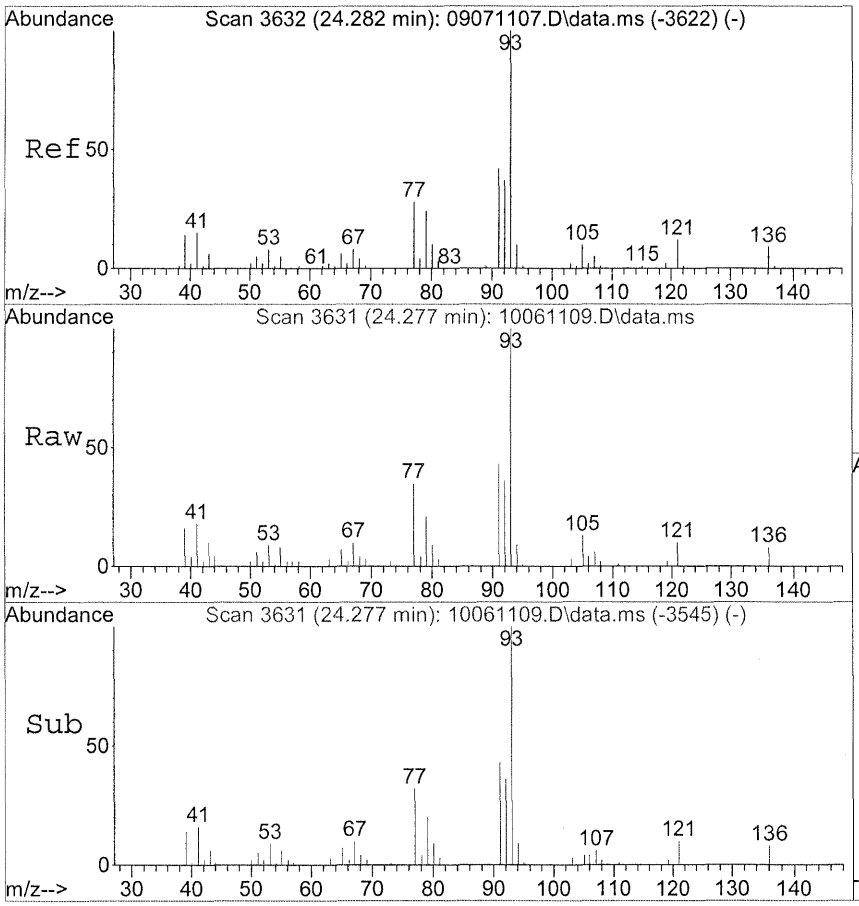


#71
n-Nonane
Concen: 0.14 ng
RT: 23.31 min Scan# 3461
Delta R.T. -0.012 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 43 Resp: 5448

Ion	Ratio	Lower	Upper
43	100		
57	75.9	75.1	115.1
85	28.3	22.0	62.0

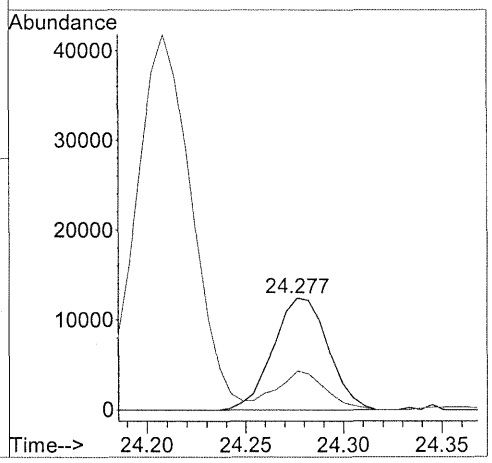


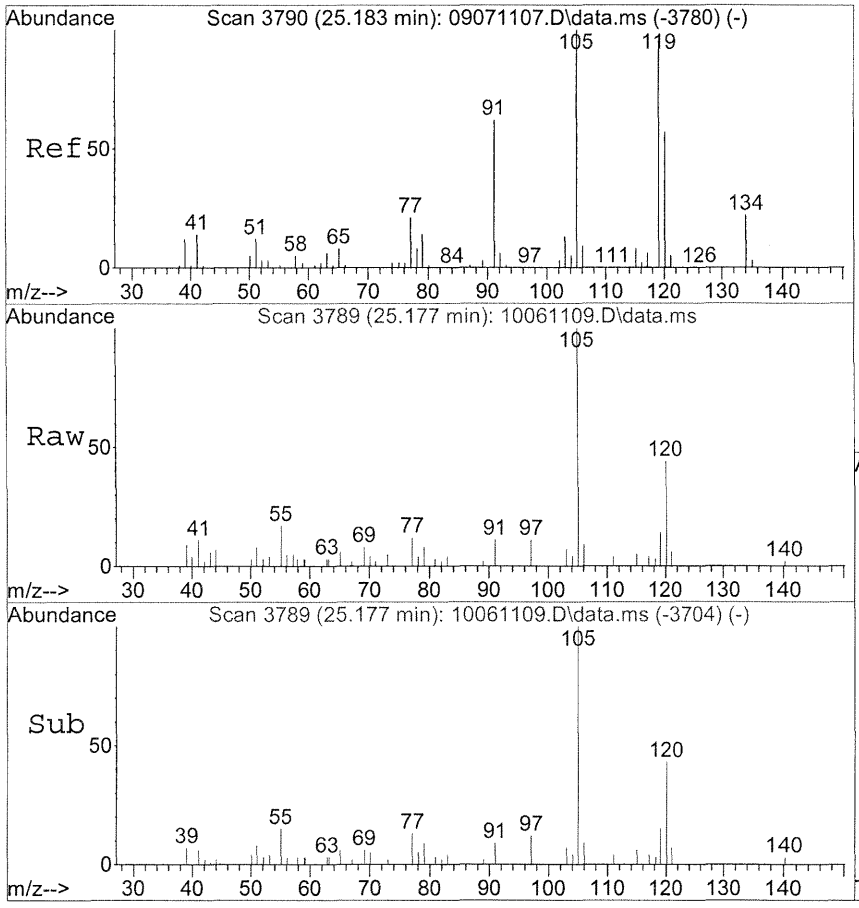


#75
alpha-Pinene
Concen: 0.63 ng
RT: 24.28 min Scan# 3631
Delta R.T. -0.012 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 93 Resp: 24222

Ion	Ratio	Lower	Upper
93	100		
77	30.4	12.5	52.5

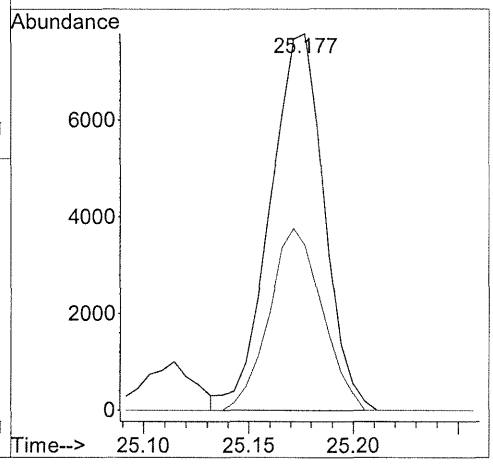


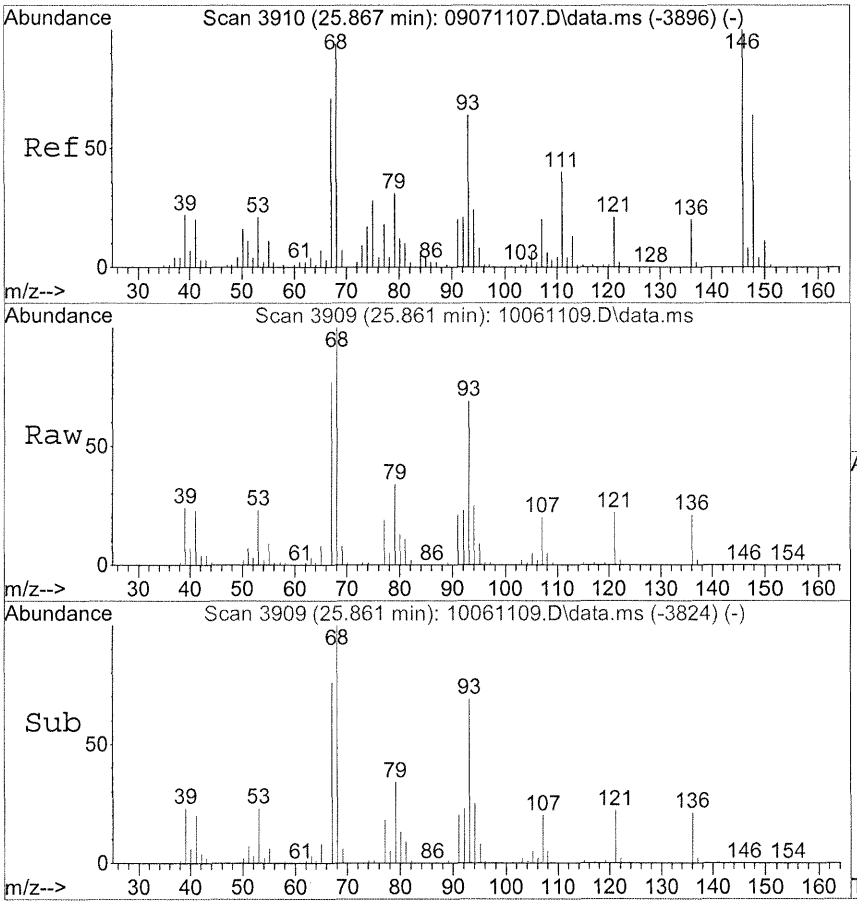


#82
1,2,4-Trimethylbenzene
Concen: 0.22 ng
RT: 25.18 min Scan# 3789
Delta R.T. -0.017 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion:105 Resp: 14015

Ion	Ratio	Lower	Upper
105	100		
120	47.5	29.9	69.9

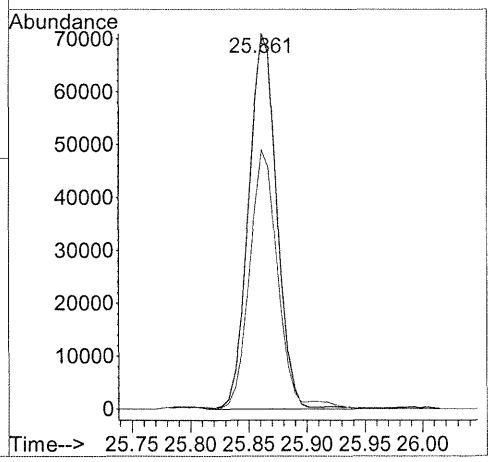


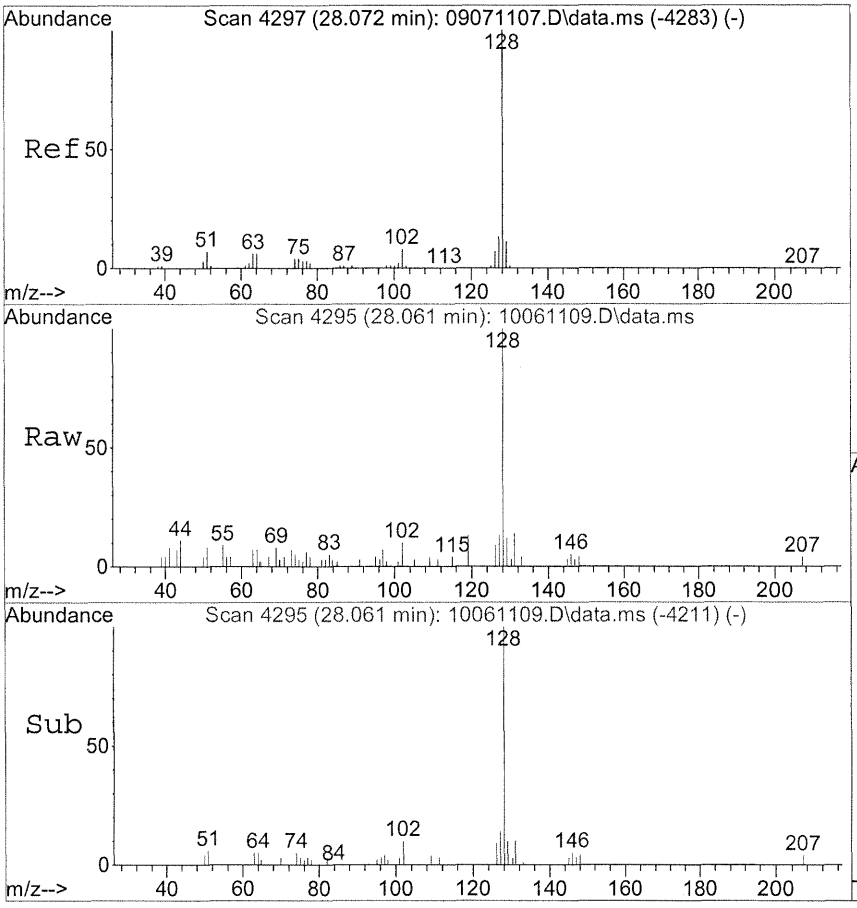


#91
d-Limonene
Concen: 4.79 ng
RT: 25.86 min Scan# 3909
Delta R.T. -0.017 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion: 68 Resp: 120129

Ion	Ratio	Lower	Upper
68	100		
93	69.1	51.7	91.7

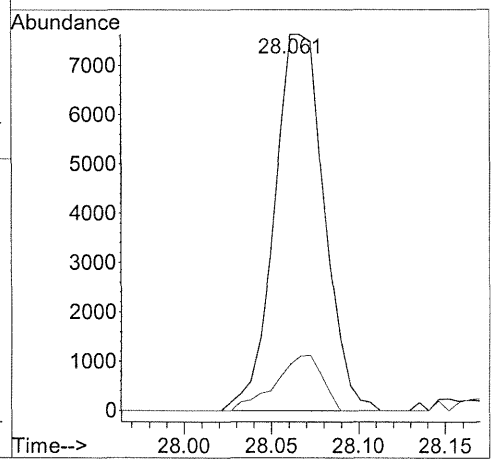




#95
Naphthalene
Concen: 0.16 ng
RT: 28.06 min Scan# 4295
Delta R.T. -0.023 min
Lab File: 10061109.D
Acq: 6 Oct 2011 15:16

Tgt Ion:128 Resp: 15166

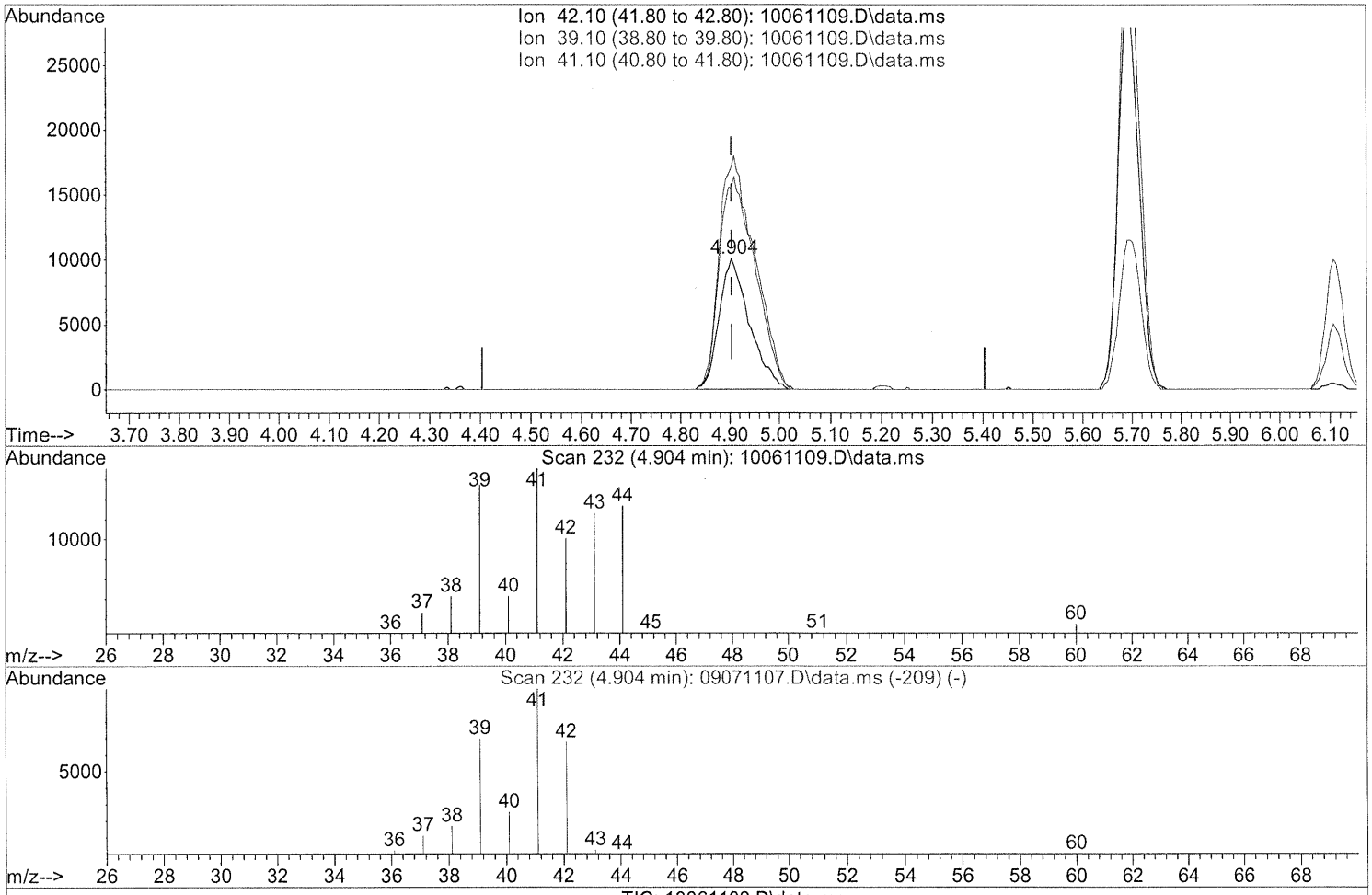
Ion	Ratio	Lower	Upper
128	100		
129	13.7	0.0	31.1



Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 15:16
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 08:45:45 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061109.D\data.ms

(2) Propene (T)

4.904min (-0.000) 1.92ng

response 43344

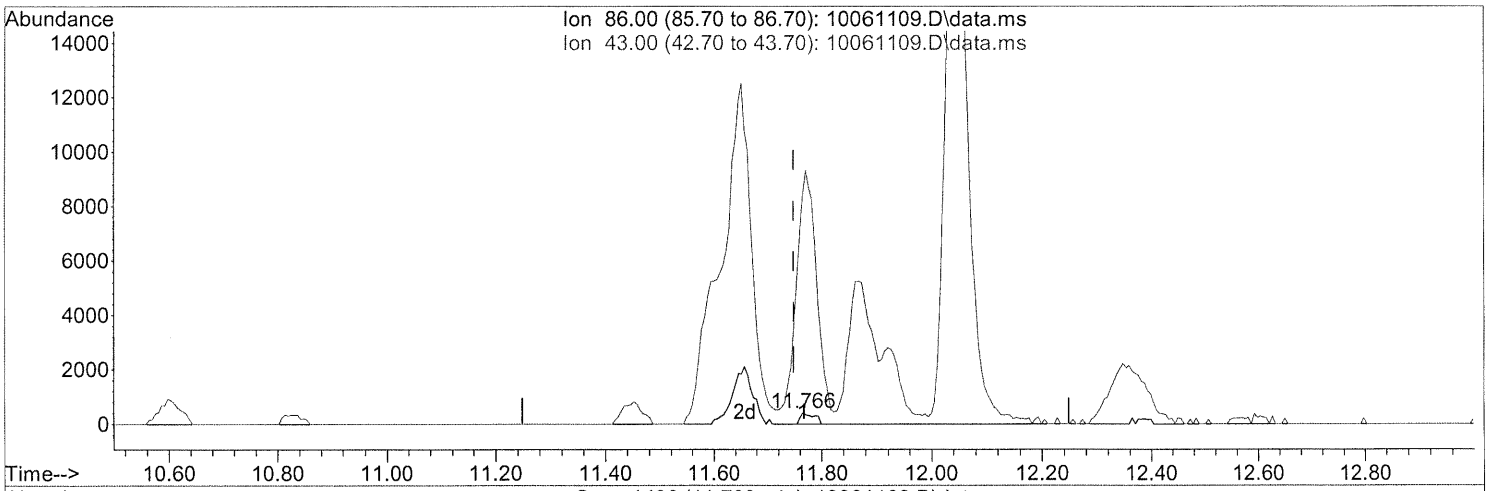
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	197.79#
41.10	146.10	204.46#
0.00	0.00	0.00

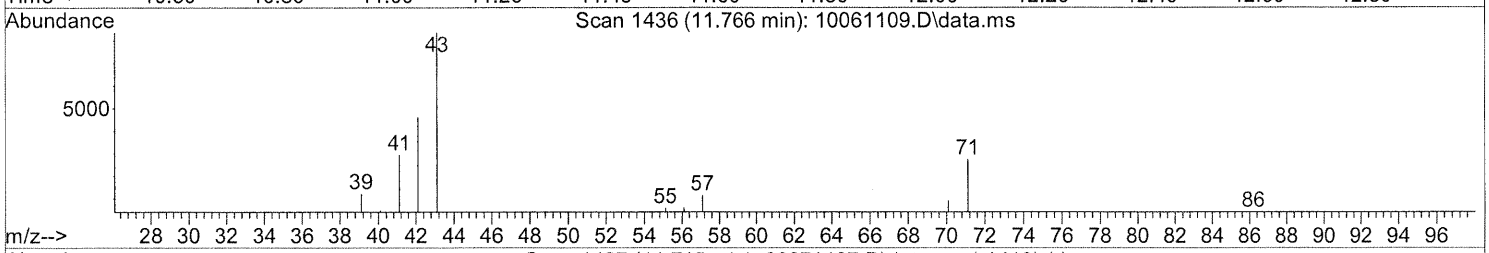
FP

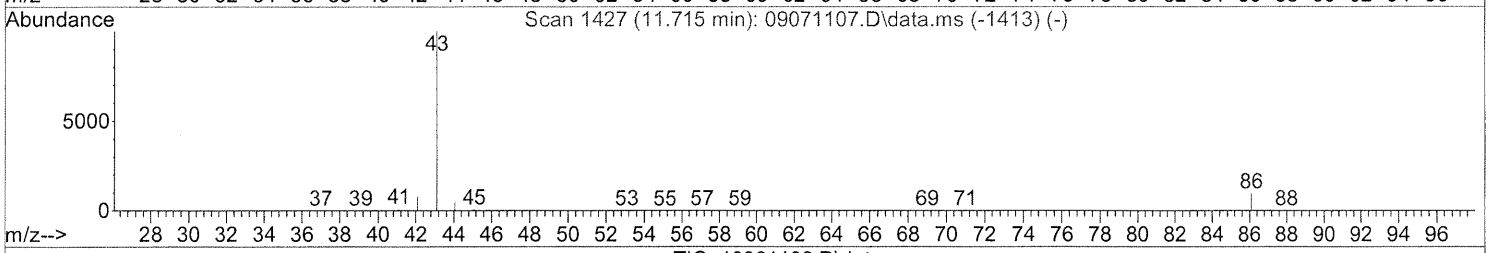
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 15:16
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 08:45:45 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061109.D\data.ms

(26) Vinyl Acetate (T)

11.766min (+0.017) 0.16ng

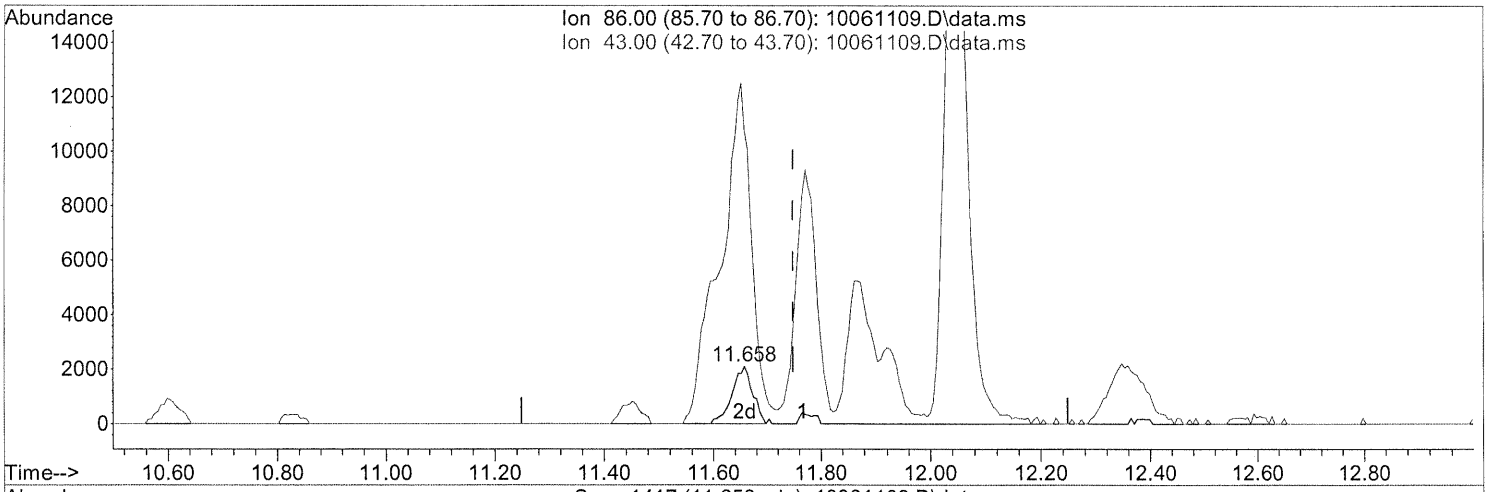
response 714

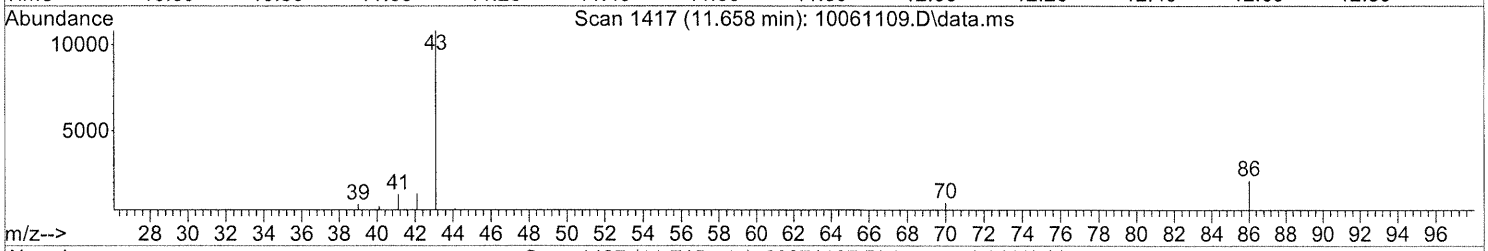
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	3503.08#
0.00	0.00	0.00
0.00	0.00	0.00

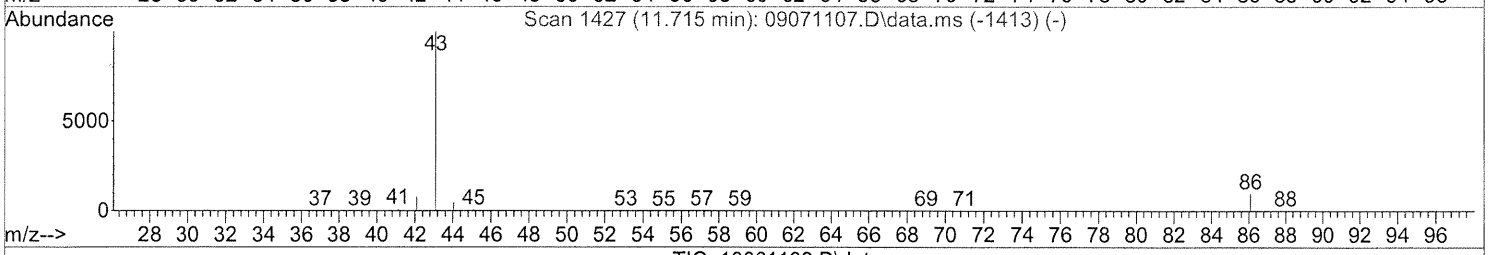
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 15:16
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 08:45:45 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061109.D\data.ms

(26) Vinyl Acetate (T)

11.658min (-0.091) 1.25ng m

response 5505

Ion	Exp%	Act%
86.00	100	100
43.00	845.70	454.35#
0.00	0.00	0.00
0.00	0.00	0.00

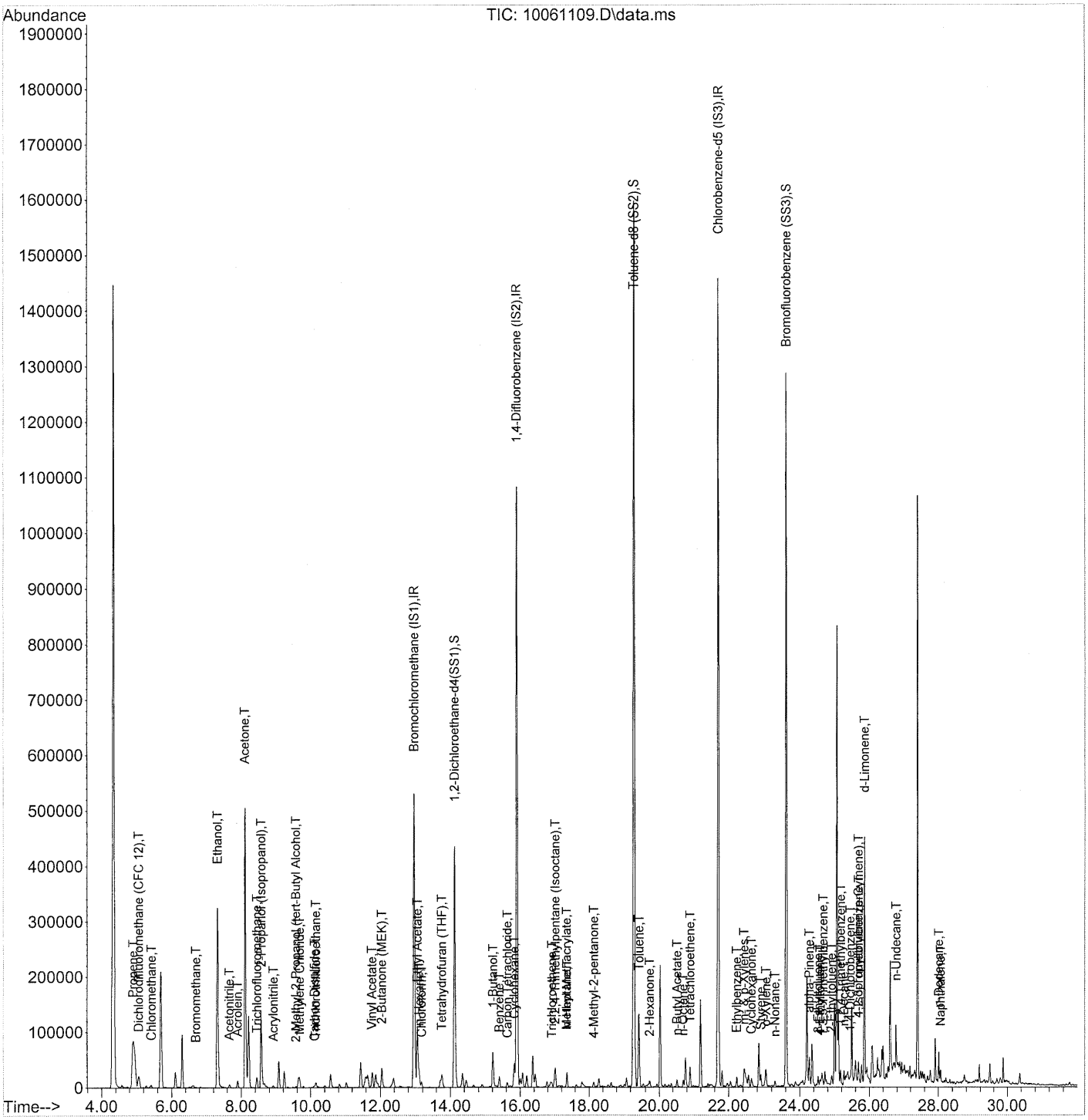
WP
10/7/11

10/7/11

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 3:16 pm
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 08:45:45 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 3:16 pm
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 08:45:45 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.97	130	281666	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.91	114	1275920	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	608327	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	420134	24.956	ng		-0.02
Spiked Amount 25.000			Recovery = 99.84%				
57) Toluene-d8 (SS2)	19.29	98	1415511	25.037	ng		-0.02
Spiked Amount 25.000			Recovery = 100.16%				
73) Bromofluorobenzene (SS3)	23.62	174	504433	25.290	ng		0.00
Spiked Amount 25.000			Recovery = 101.16%				
Target Compounds							Qvalue
2) Propene	4.90	42	43344	1.921	ng	#	37
3) Dichlorodifluoromethan...	5.06	85	43152	1.548	ng		98
4) Chloromethane	5.42	50	6414	0.274	ng		95
5) 1,2-Dichloro-1,1,2,2-t...	5.66	135	850	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.20	54	706	N.D.			
8) Bromomethane	6.70	94	858	0.067	ng		84
9) Chloroethane	7.06	64	243	N.D.			
10) Ethanol	7.32	45	517737	39.710	ng		100
11) Acetonitrile	7.66	41	6192	0.205	ng	#	53
12) Acrolein	7.90	56	14048	1.424	ng		98
13) Acetone	8.11	58	271393	21.756	ng		90
14) Trichlorofluoromethane	8.45	101	20684	0.825	ng		100
15) 2-Propanol (Isopropanol)	8.57	45	234049	6.674	ng		92
16) Acrylonitrile	8.92	53	2130	0.105	ng		94
17) 1,1-Dichloroethene	9.49	96	649	N.D.			
18) 2-Methyl-2-Propanol (t...	9.57	59	2943	0.078	ng	#	65
19) Methylene Chloride	9.68	84	7763	0.501	ng		81
20) 3-Chloro-1-propene (Al...	9.79	41	628	N.D.			
21) Trichlorotrifluoroethane	10.15	151	4575	0.351	ng		95
22) Carbon Disulfide	10.11	76	6394	0.119	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	11.57	73	652	N.D.			
26) Vinyl Acetate	11.77	86	714	0.163	ng	#	1
27) 2-Butanone (MEK)	12.05	72	13946	1.297	ng	#	44
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.05	87	401	N.D.			
30) Ethyl Acetate	13.05	61	24188	4.149	ng		81
31) n-Hexane	13.11	57	17765	0.591	ng	#	96

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 3:16 pm
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 08:45:45 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.17	83	10305	0.454 ng		98
34) Tetrahydrofuran (THF)	13.76	72	8096	0.810 ng	#	36
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.29	62	788	N.D.		
38) 1,1,1-Trichloroethane	14.71	97	532	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.21	56	52065	2.803 ng	#	67
41) Benzene	15.40	78	22988	0.383 ng		98
42) Carbon Tetrachloride	15.63	117	6636	0.357 ng		99
43) Cyclohexane	15.83	84	23488	0.902 ng		91
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.83	83	103	N.D.		
47) Trichloroethene	16.92	130	2300	0.133 ng		96
48) 1,4-Dioxane	16.88	88	113	N.D.		
49) 2,2,4-Trimethylpentane...	17.02	57	38756	0.524 ng		95
50) Methyl Methacrylate	17.36	100	2573	0.362 ng	#	1
51) n-Heptane	17.36	71	7893	0.444 ng		90
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.14	58	2985	0.196 ng	#	68
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.42	91	122733	1.877 ng		99
59) 2-Hexanone	19.72	43	12367	0.340 ng	#	72
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.52	43	12239	0.287 ng		97
63) n-Octane	20.70	57	2230	0.150 ng	#	80
64) Tetrachloroethene	20.90	166	15176	0.743 ng		99
65) Chlorobenzene	21.76	112	694	N.D.		
66) Ethylbenzene	22.23	91	16053	0.224 ng		98
67) m- & p-Xylenes	22.44	91	32787	0.576 ng		96
68) Bromoform	22.54	173	213	N.D.		
69) Styrene	22.91	104	13897	0.312 ng		94
70) o-Xylene	23.05	91	12511	0.209 ng		96
71) n-Nonane	23.31	43	5448	0.139 ng		80
72) 1,1,2,2-Tetrachloroethane	23.03	83	491	N.D.		
74) Cumene	23.79	105	1825	N.D.		
75) alpha-Pinene	24.28	93	24222	0.626 ng		96
76) n-Propylbenzene	24.41	91	5156	N.D.		
77) 3-Ethyltoluene	24.53	105	10303	0.136 ng		97
78) 4-Ethyltoluene	24.58	105	5273	0.071 ng		97
79) 1,3,5-Trimethylbenzene	24.67	105	4035	0.065 ng		88

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061109.D
Acq On : 6 Oct 2011 3:16 pm
Operator : EM/CR
Sample : P1103662-003 (1000ml)
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 08:45:45 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

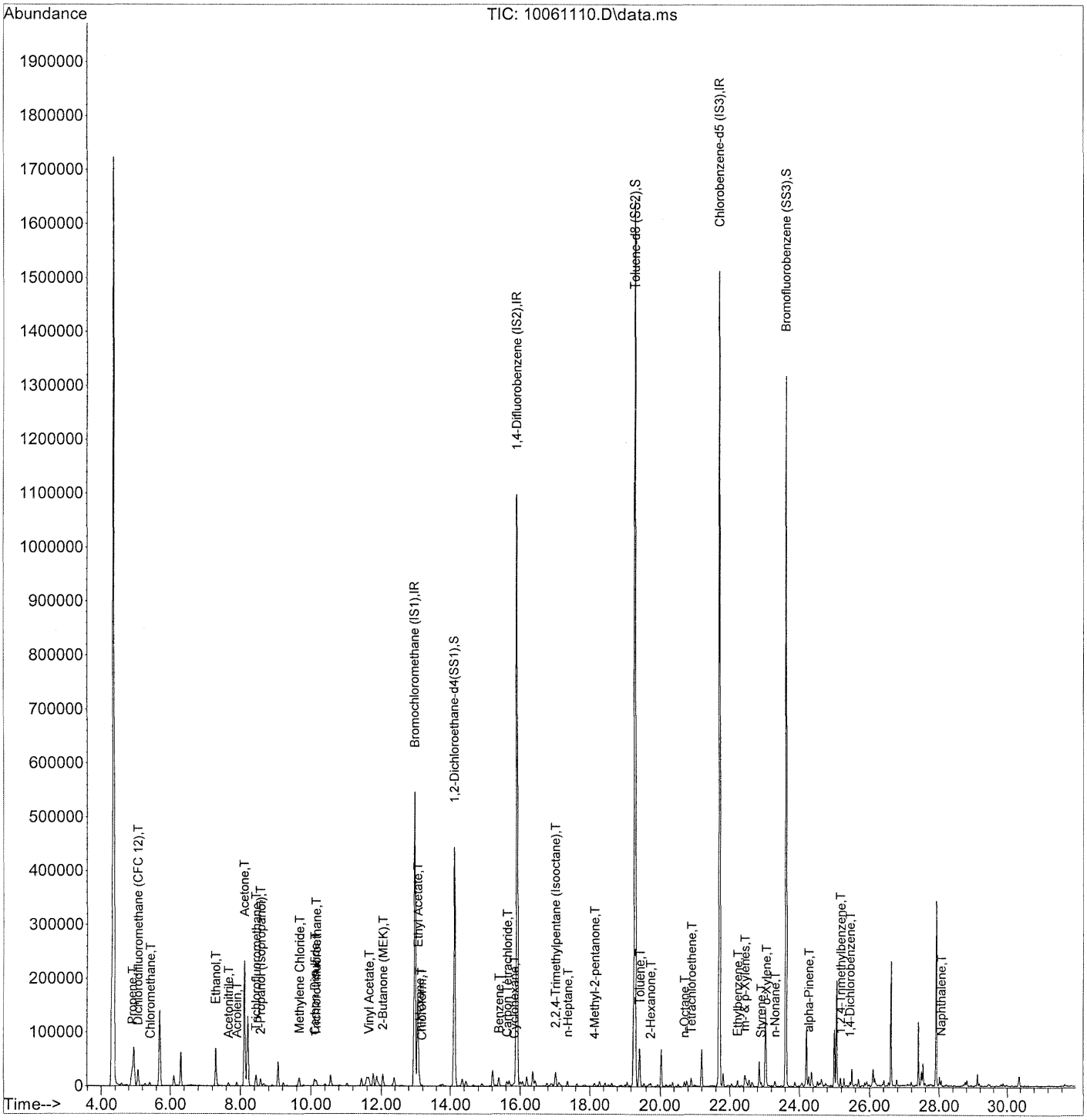
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.86	118	723	N.D.		
81) 2-Ethyltoluene	24.91	105	4886	0.064 ng		93
82) 1,2,4-Trimethylbenzene	25.18	105	14015	0.222 ng		96
83) n-Decane	25.27	57	9201	0.236 ng		87
84) Benzyl Chloride	25.34	91	941	N.D.		
85) 1,3-Dichlorobenzene	25.37	146	501	N.D.		
86) 1,4-Dichlorobenzene	25.45	146	2670	0.068 ng		99
87) sec-Butylbenzene	25.50	105	1280	N.D.		
88) 4-Isopropyltoluene (p-...	25.68	119	10988	0.131 ng		90
89) 1,2,3-Trimethylbenzene	25.69	105	4802	0.075 ng		73
90) 1,2-Dichlorobenzene	25.87	146	405	N.D.		
91) d-Limonene	25.86	68	120129	4.789 ng		97
92) 1,2-Dibromo-3-Chloropr...	26.77	157	73	N.D.		
93) n-Undecane	26.77	57	33743	0.886 ng		95
94) 1,2,4-Trichlorobenzene	27.92	180	1011	N.D.		
95) Naphthalene	28.06	128	15166	0.163 ng		93
96) n-Dodecane	28.02	57	19388	0.555 ng		91
97) Hexachlorobutadiene	28.49	225	53	N.D.		
98) Cyclohexanone	22.64	55	8569	0.359 ng	#	87
99) tert-Butylbenzene	25.17	119	2072	N.D.		
100) n-Butylbenzene	26.19	91	2418	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:33:55 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:33:55 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	290676	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1309657	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	623402	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	428036	24.638	ng		-0.03
Spiked Amount 25.000			Recovery = 98.56%				
57) Toluene-d8 (SS2)	19.29	98	1451614	25.055	ng		-0.02
Spiked Amount 25.000			Recovery = 100.20%				
73) Bromofluorobenzene (SS3)	23.62	174	515567	25.223	ng		-0.01
Spiked Amount 25.000			Recovery = 100.88%				
Target Compounds							Qvalue
2) Propene	4.90	42	12882m	0.553	ng		
3) Dichlorodifluoromethan...	5.07	85	46310	1.610	ng		99
4) Chloromethane	5.42	50	6127	0.254	ng		100
10) Ethanol	7.29	45	98404m	7.314	ng		
11) Acetonitrile	7.66	41	6017	0.193	ng		95
12) Acrolein	7.90	56	7751	0.762	ng		99
13) Acetone	8.11	58	118207m	9.182	ng		
14) Trichlorofluoromethane	8.44	101	22336	0.864	ng		98
15) 2-Propanol (Isopropanol)	8.57	45	22777	0.629	ng		95
19) Methylene Chloride	9.67	84	8145	0.510	ng		86
21) Trichlorotrifluoroethane	10.15	151	5028	0.374	ng		94
22) Carbon Disulfide	10.11	76	24493	0.442	ng		99
26) Vinyl Acetate	11.65	86	3829m	0.846	ng		
27) 2-Butanone (MEK)	12.05	72	9180	0.827	ng	#	52
30) Ethyl Acetate	13.05	61	39311	6.534	ng		80
31) n-Hexane	13.11	57	8470	0.273	ng		96
32) Chloroform	13.17	83	2301	0.098	ng		98
41) Benzene	15.40	78	19843	0.322	ng		99
42) Carbon Tetrachloride	15.63	117	7087	0.372	ng		100
43) Cyclohexane	15.83	84	3002	0.112	ng		92
49) 2,2,4-Trimethylpentane...	17.02	57	29379	0.387	ng		100
51) n-Heptane	17.37	71	2788	0.153	ng		93
53) 4-Methyl-2-pentanone	18.14	58	1907	0.122	ng	#	70
58) Toluene	19.42	91	66063	0.986	ng		100
59) 2-Hexanone	19.72	43	5927	0.159	ng		80
63) n-Octane	20.70	57	1423	0.094	ng	#	76
64) Tetrachloroethene	20.90	166	6689	0.320	ng		96
66) Ethylbenzene	22.23	91	10243	0.140	ng		99
67) m- & p-Xylenes	22.44	91	20813	0.357	ng		93
69) Styrene	22.90	104	5279	0.116	ng		95

EM 10/7/11

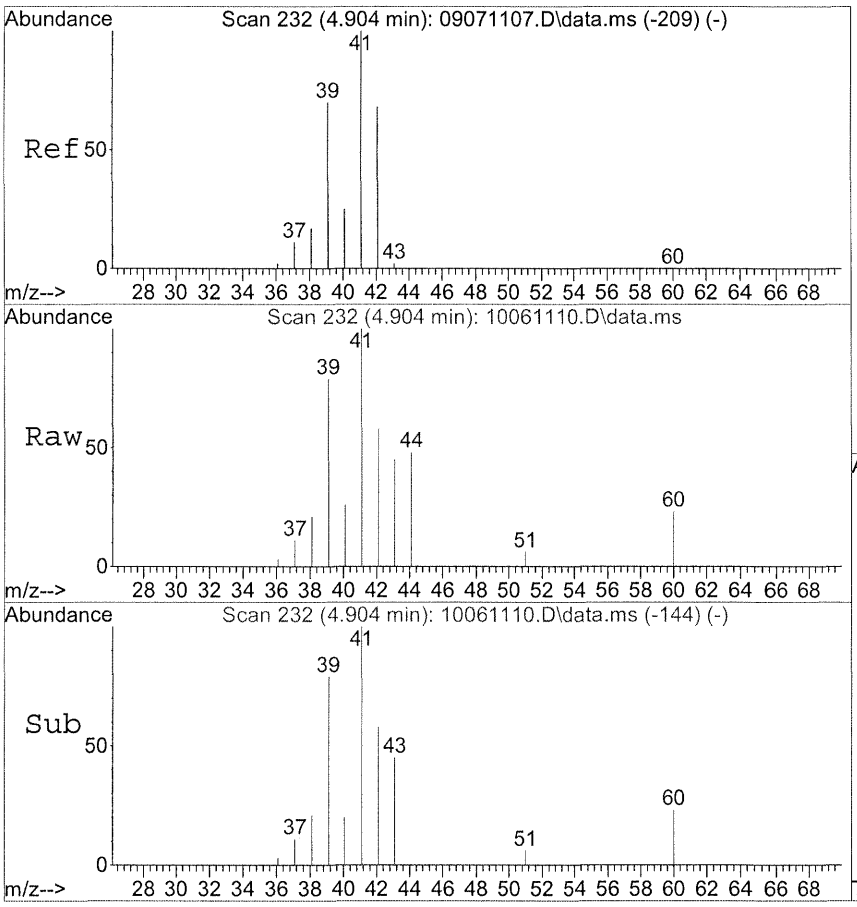
Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:33:55 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) o-Xylene	23.05	91	8142	0.132	ng	95
71) n-Nonane	23.31	43	5000	0.125	ng	78
75) alpha-Pinene	24.28	93	8354	0.211	ng	99
82) 1,2,4-Trimethylbenzene	25.18	105	9148	0.141	ng	96
86) 1,4-Dichlorobenzene	25.45	146	3781	0.095	ng	89
95) Naphthalene	28.07	128	8872	0.093	ng	98

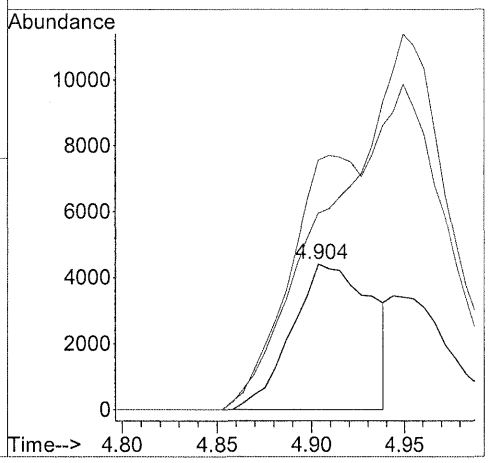
(#) = qualifier out of range (m) = manual integration (+) = signals summed

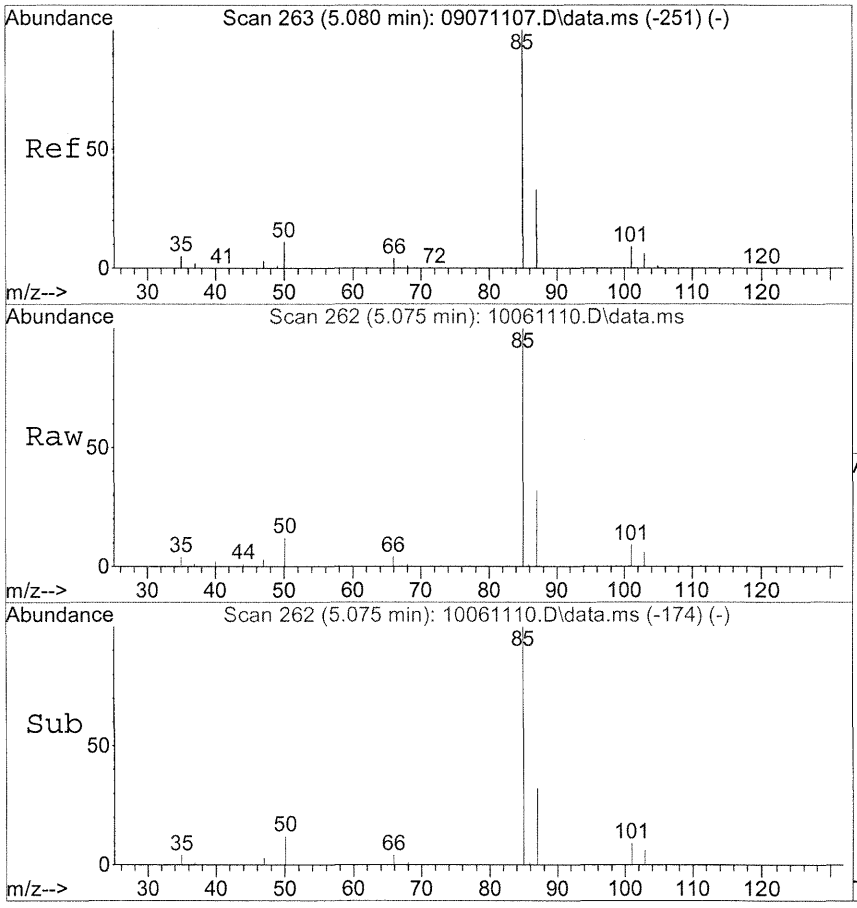


#2
Propene
Concen: 0.55 ng m
RT: 4.90 min Scan# 232
Delta R.T. -0.000 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 42 Resp: 12882

Ion	Ratio	Lower	Upper
42	100		
39	0.0	88.8	128.8#
41	0.0	126.1	166.1#

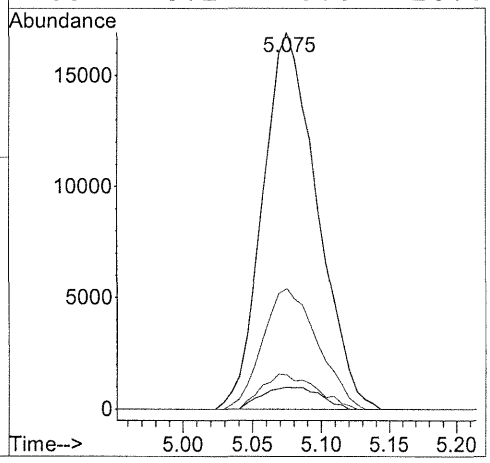


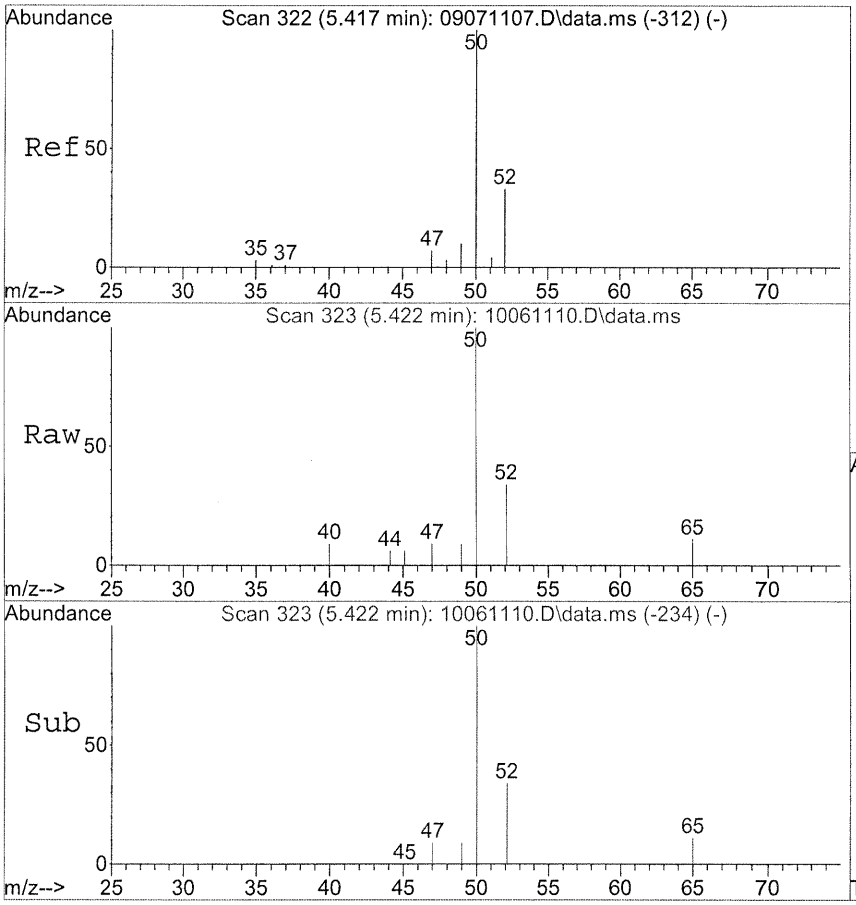


#3
Dichlorodifluoromethane (CFC
Concen: 1.61 ng
RT: 5.07 min Scan# 262
Delta R.T. -0.000 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 85 Resp: 46310

Ion	Ratio	Lower	Upper
85	100		
87	32.2	13.0	53.0
101	9.1	0.0	29.1
103	6.2	0.0	26.0

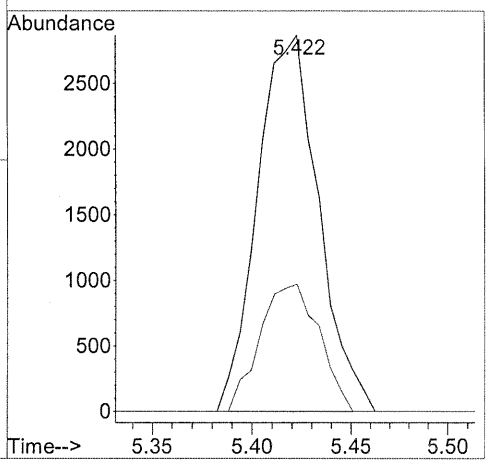


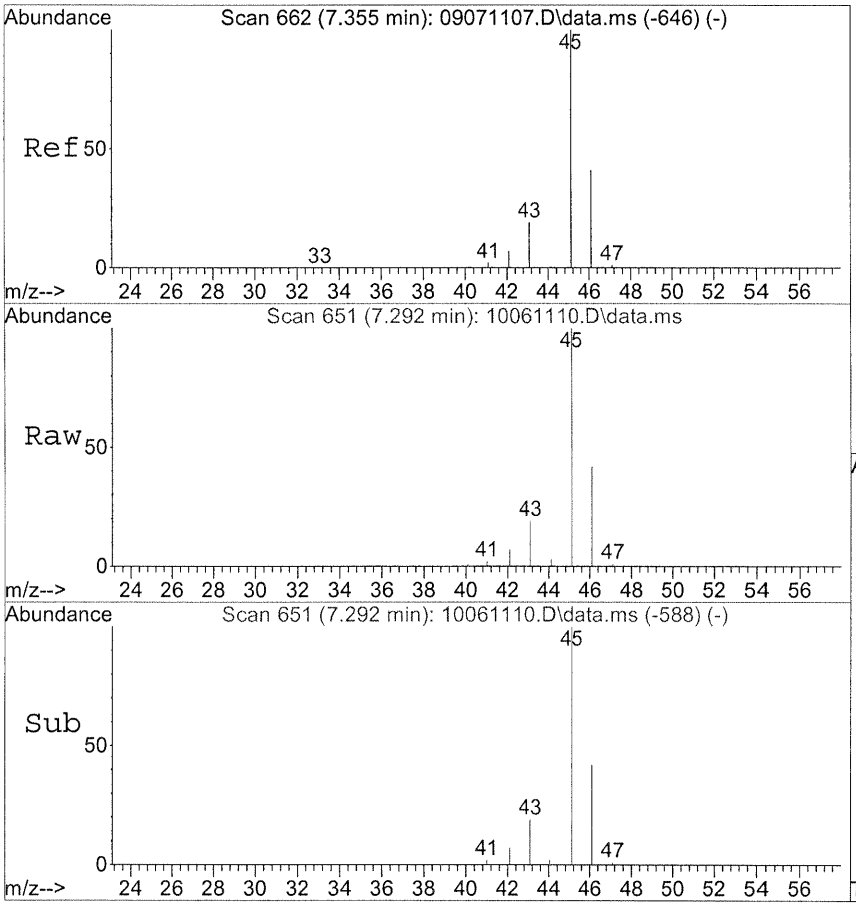


#4
Chloromethane
Concen: 0.25 ng
RT: 5.42 min Scan# 323
Delta R.T. 0.006 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 50 Resp: 6127

Ion	Ratio	Lower	Upper
50	100		
52	32.9	13.1	53.1

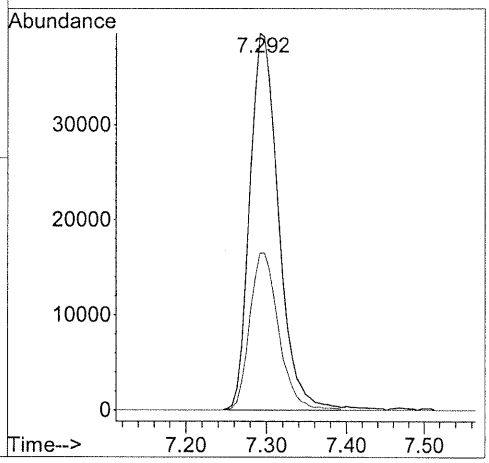


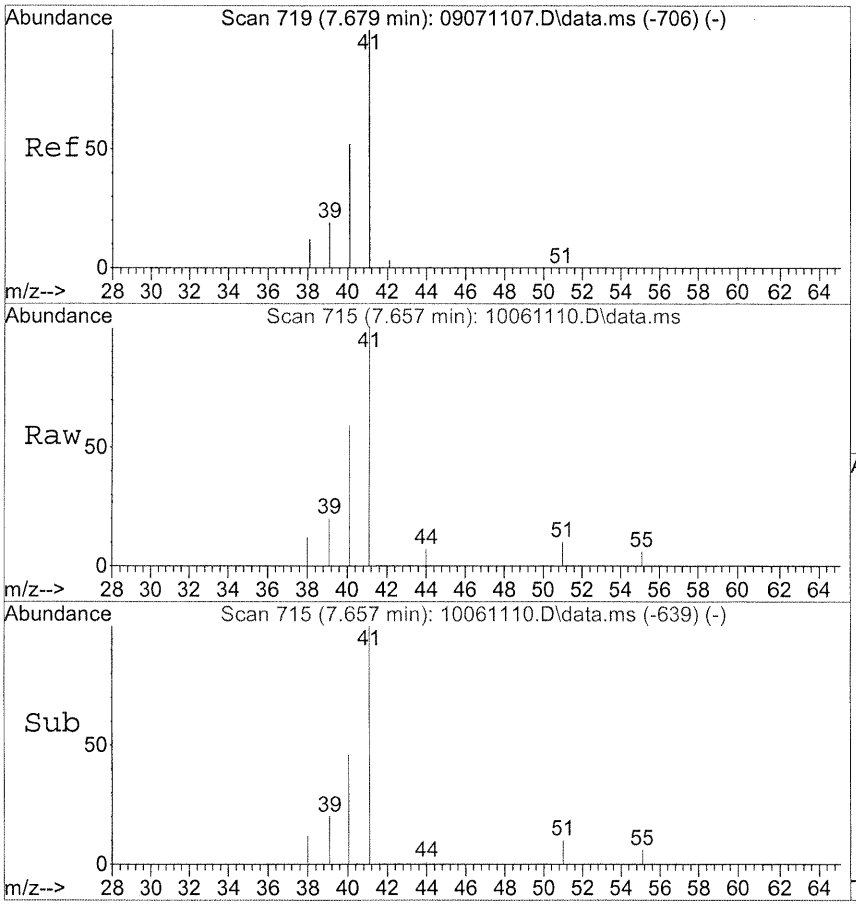


#10
Ethanol
Concen: 7.31 ng m
RT: 7.29 min Scan# 651
Delta R.T. -0.143 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 45 Resp: 98404

Ion	Ratio	Lower	Upper
45	100		
46	0.0	20.7	60.7#

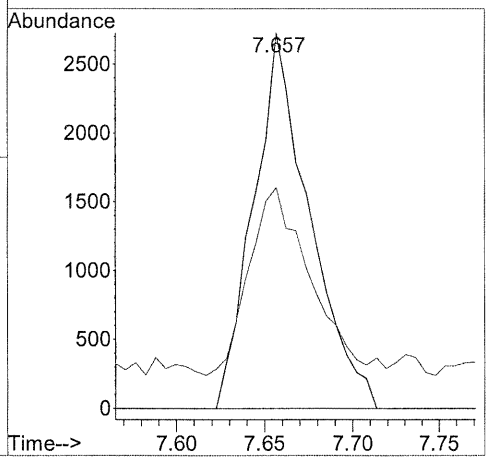


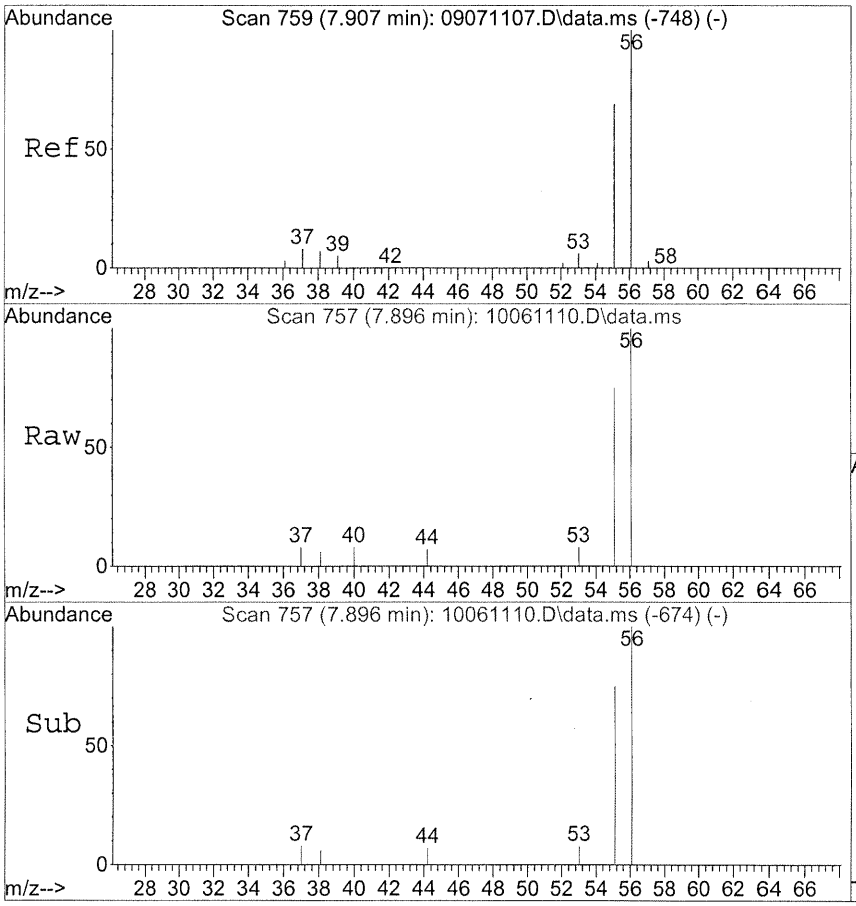


#11
Acetonitrile
Concen: 0.19 ng
RT: 7.66 min Scan# 715
Delta R.T. -0.069 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 41 Resp: 6017

Ion	Ratio	Lower	Upper
41	100		
40	55.1	31.5	71.5

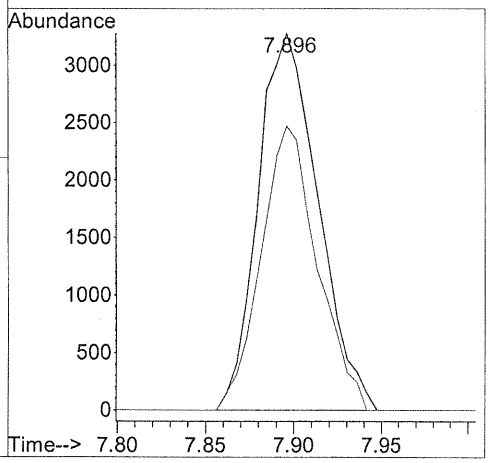


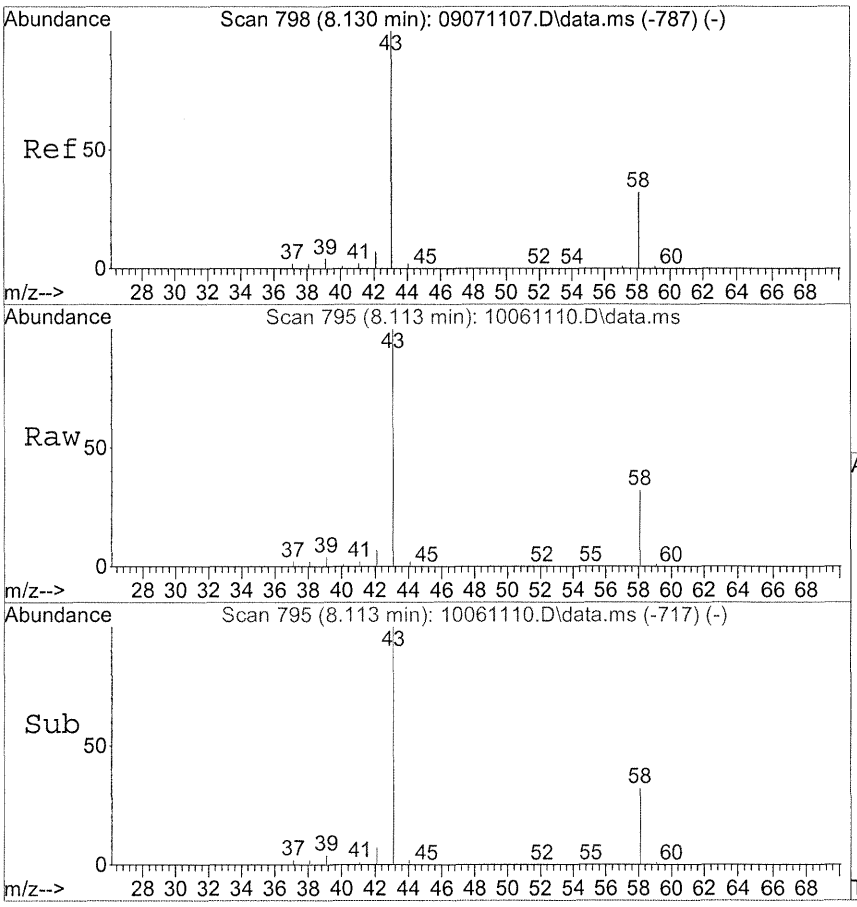


#12
Acrolein
Concen: 0.76 ng
RT: 7.90 min Scan# 757
Delta R.T. -0.029 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 56 Resp: 7751

Ion	Ratio	Lower	Upper
56	100		
55	70.8	50.1	90.1

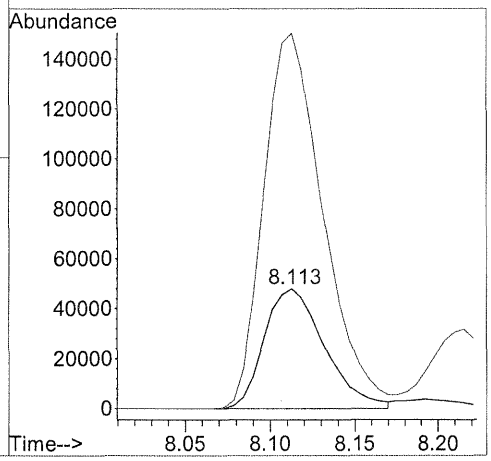


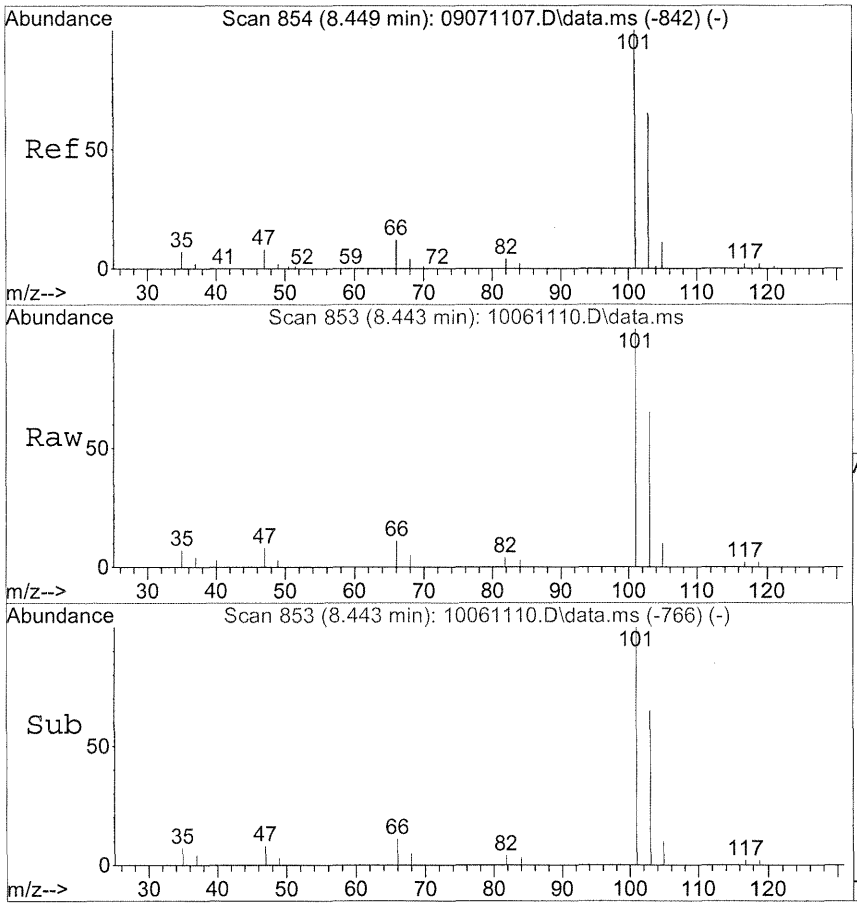


#13
Acetone
Concen: 9.18 ng m
RT: 8.11 min Scan# 795
Delta R.T. -0.057 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 58 Resp: 118207

Ion	Ratio	Lower	Upper
58	100		
43	310.2	283.8	343.8

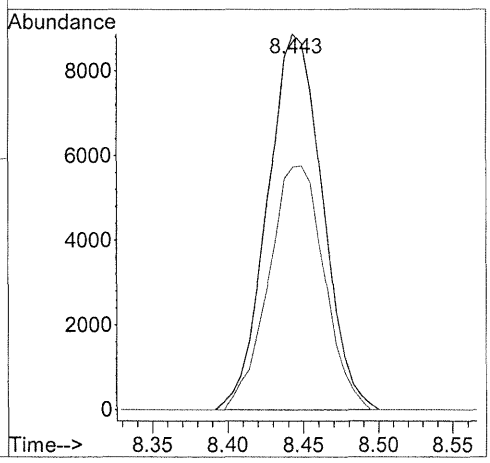


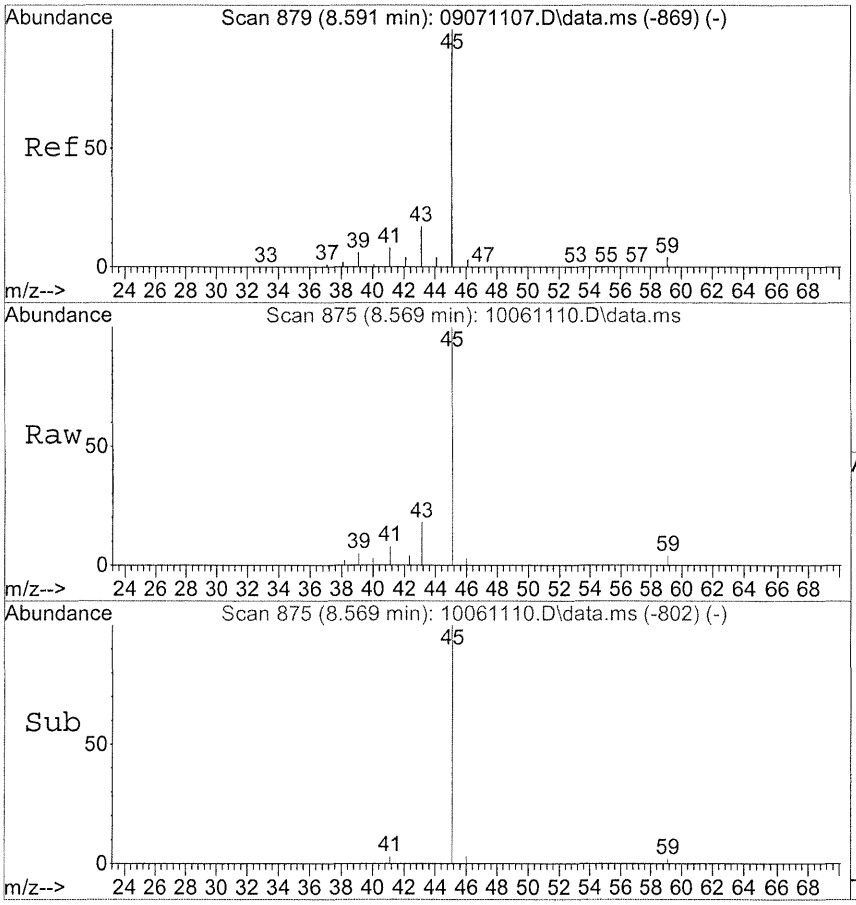


#14
Trichlorofluoromethane
Concen: 0.86 ng
RT: 8.44 min Scan# 853
Delta R.T. -0.006 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion:101 Resp: 22336

Ion	Ratio	Lower	Upper
101	100		
103	65.6	44.4	84.4

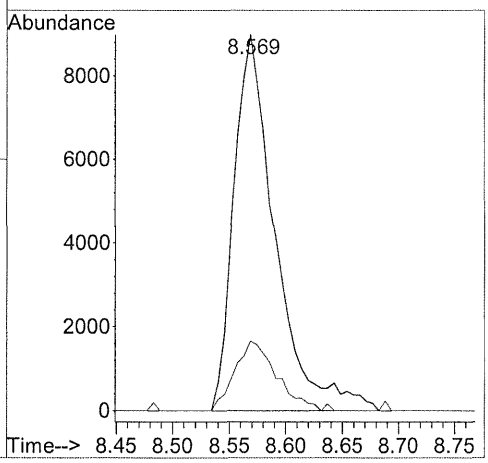


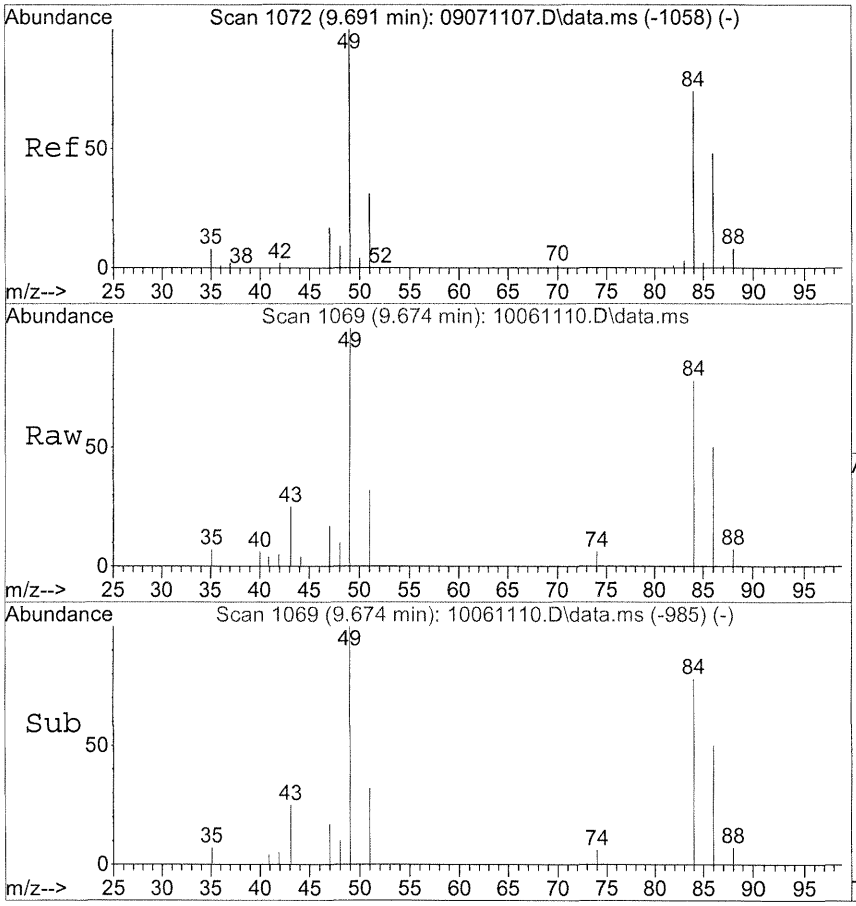


#15
2-Propanol (Isopropanol)
Concen: 0.63 ng
RT: 8.57 min Scan# 875
Delta R.T. -0.085 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 45 Resp: 22777

Ion	Ratio	Lower	Upper
45	100		
43	18.8	1.4	41.4

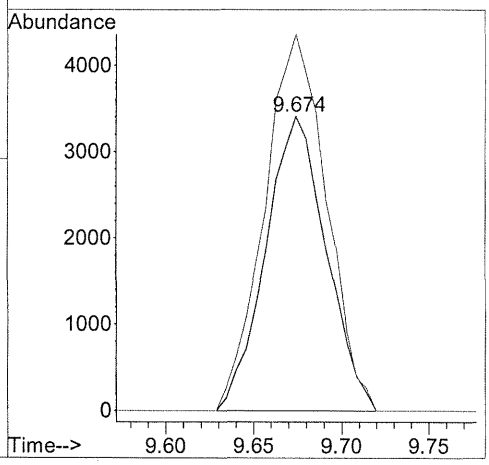


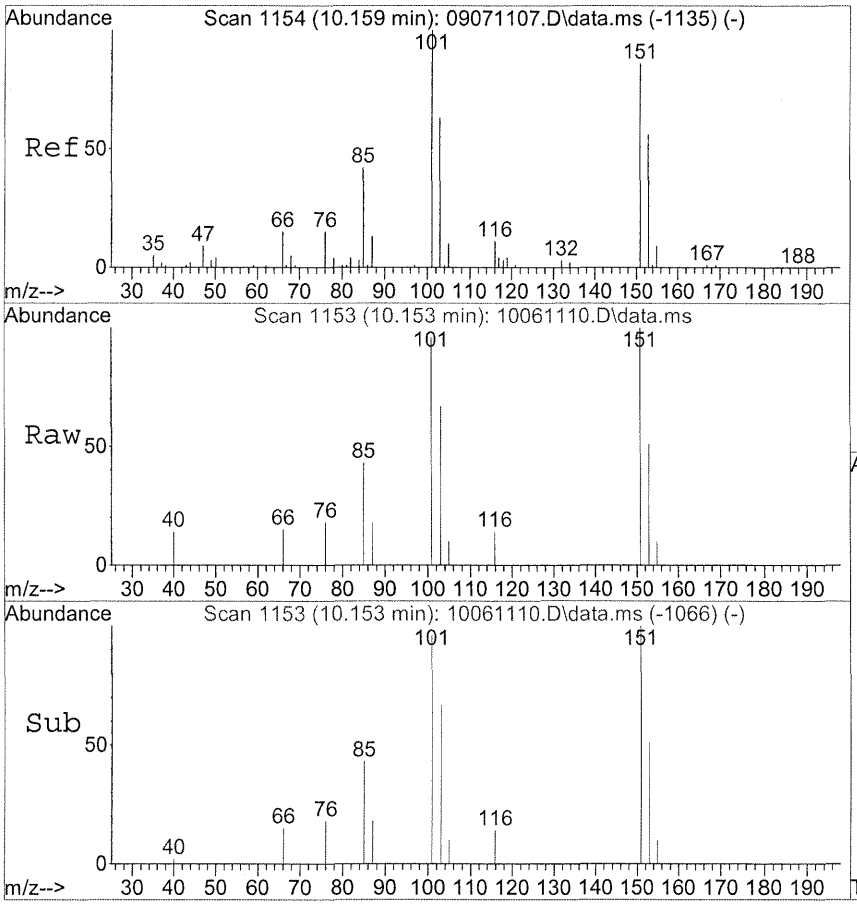


#19
Methylene Chloride
Concen: 0.51 ng
RT: 9.67 min Scan# 1069
Delta R.T. -0.023 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 84 Resp: 8145

Ion	Ratio	Lower	Upper
84	100		
49	130.8	90.4	140.4

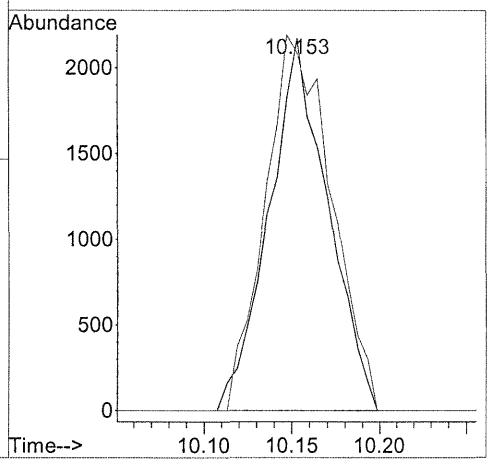


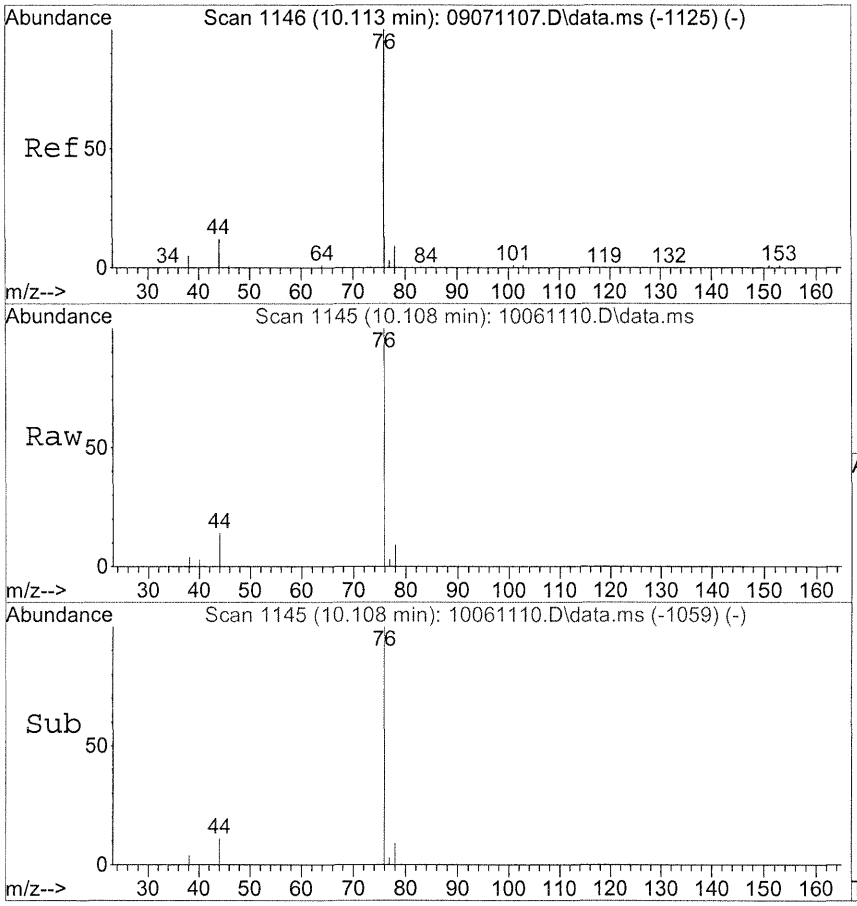


#21
Trichlorotrifluoroethane
Concen: 0.37 ng
RT: 10.15 min Scan# 1153
Delta R.T. -0.006 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion:151 Resp: 5028

Ion	Ratio	Lower	Upper
151	100		
101	113.5	99.7	139.7

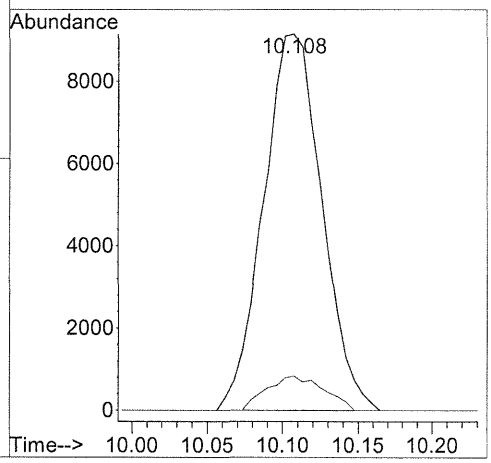


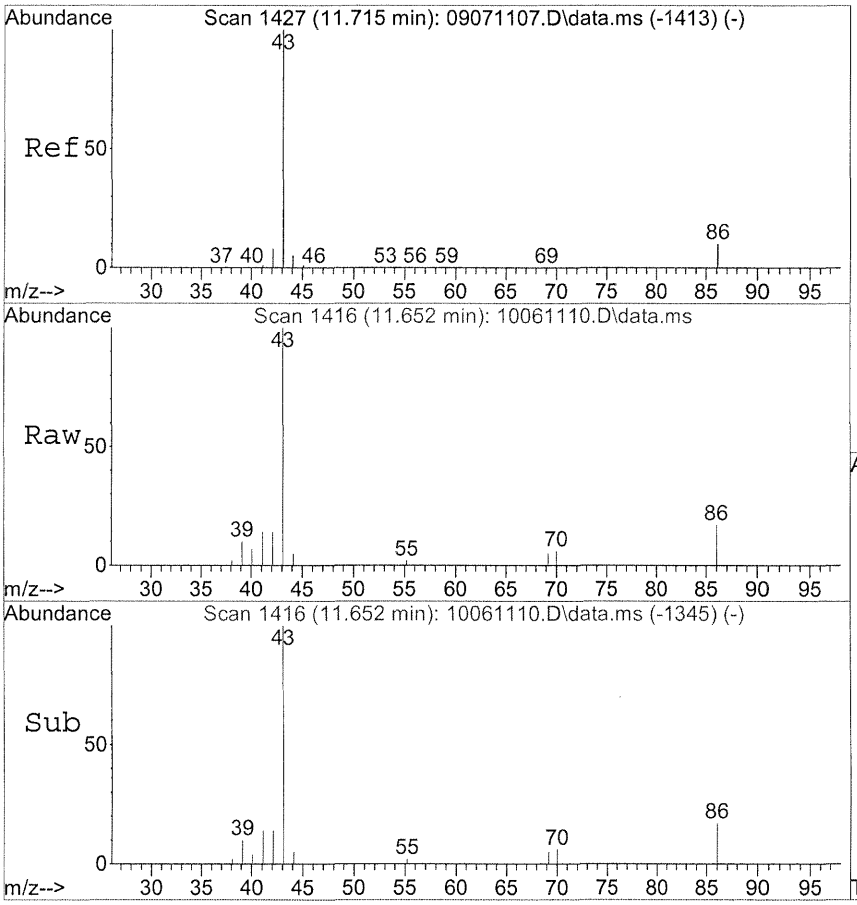


#22
Carbon Disulfide
Concen: 0.44 ng
RT: 10.11 min Scan# 1145
Delta R.T. -0.011 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 76 Resp: 24493

Ion	Ratio	Lower	Upper
76	100		
78	8.9	0.0	29.4

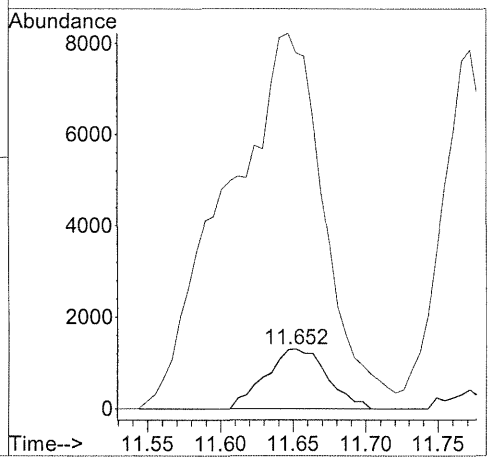


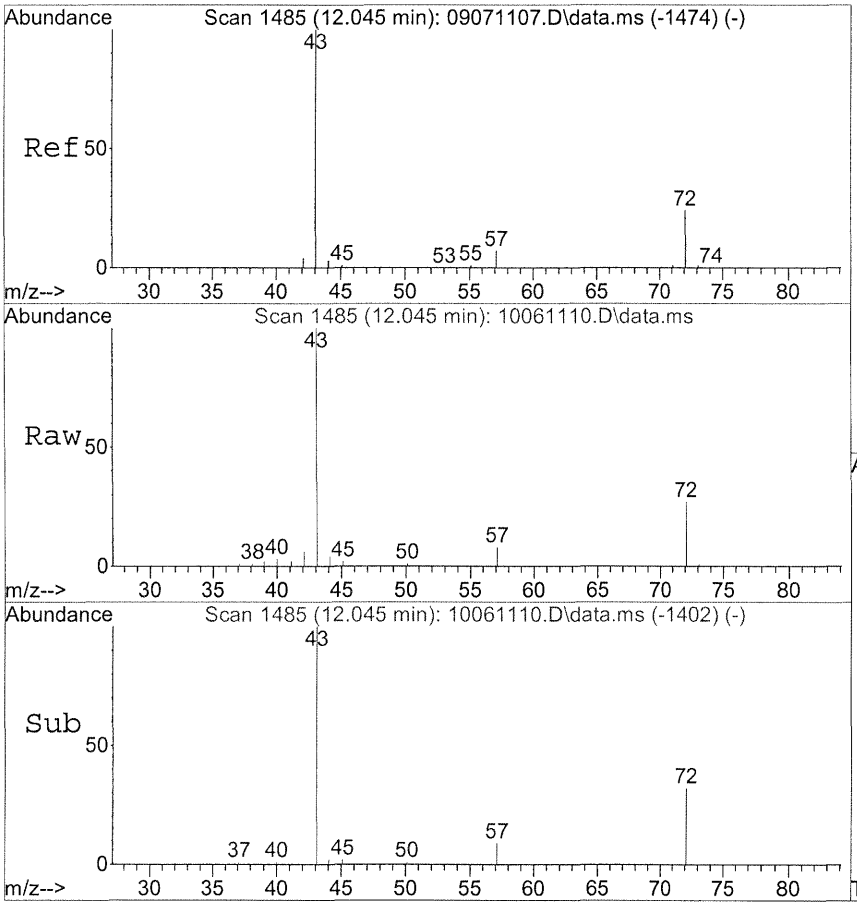


#26
Vinyl Acetate
Concen: 0.85 ng m
RT: 11.65 min Scan# 1416
Delta R.T. -0.097 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 86 Resp: 3829

Ion	Ratio	Lower	Upper
86	100		
43	543.3	825.7	865.7#

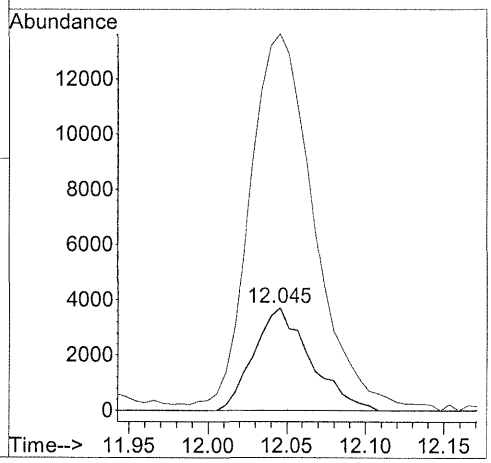


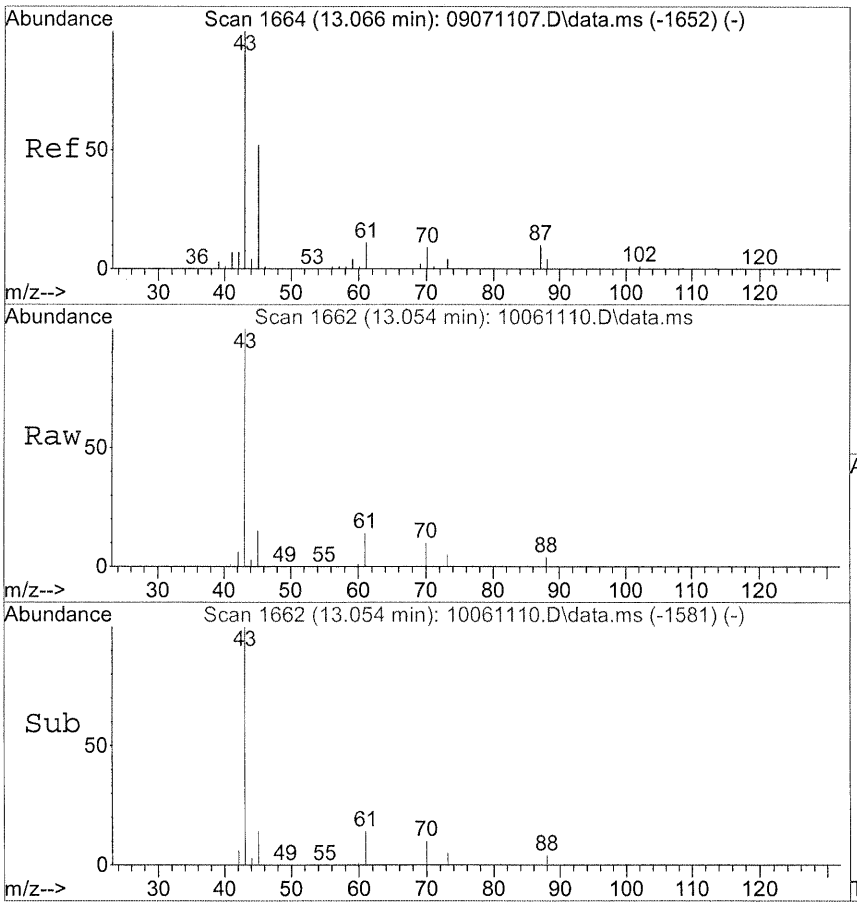


#27
2-Butanone (MEK)
Concen: 0.83 ng
RT: 12.05 min Scan# 1485
Delta R.T. -0.029 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 72 Resp: 9180

Ion	Ratio	Lower	Upper
72	100		
43	422.9	304.7	344.7#

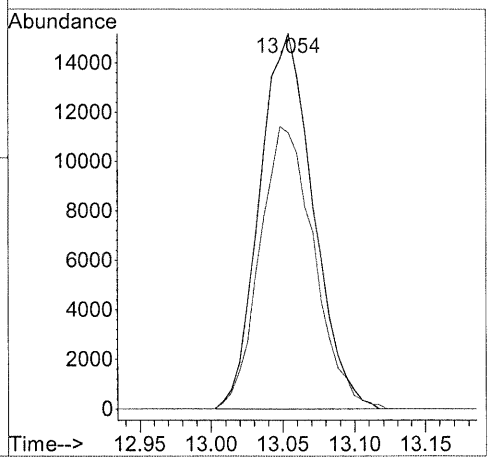


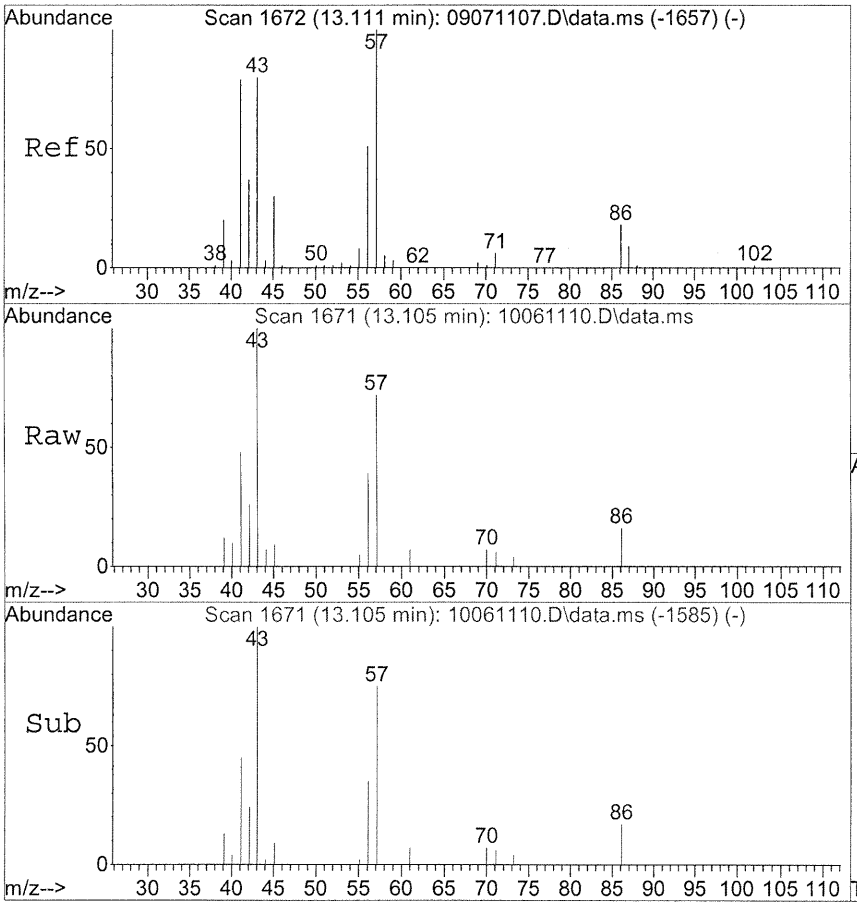


#30
Ethyl Acetate
Concen: 6.53 ng
RT: 13.05 min Scan# 1662
Delta R.T. -0.040 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 61 Resp: 39311

Ion	Ratio	Lower	Upper
61	100		
70	76.0	75.3	115.3

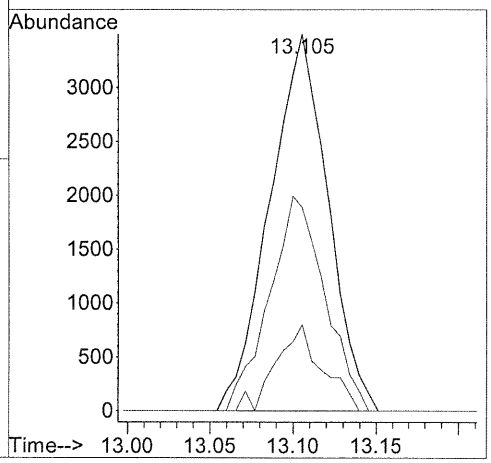


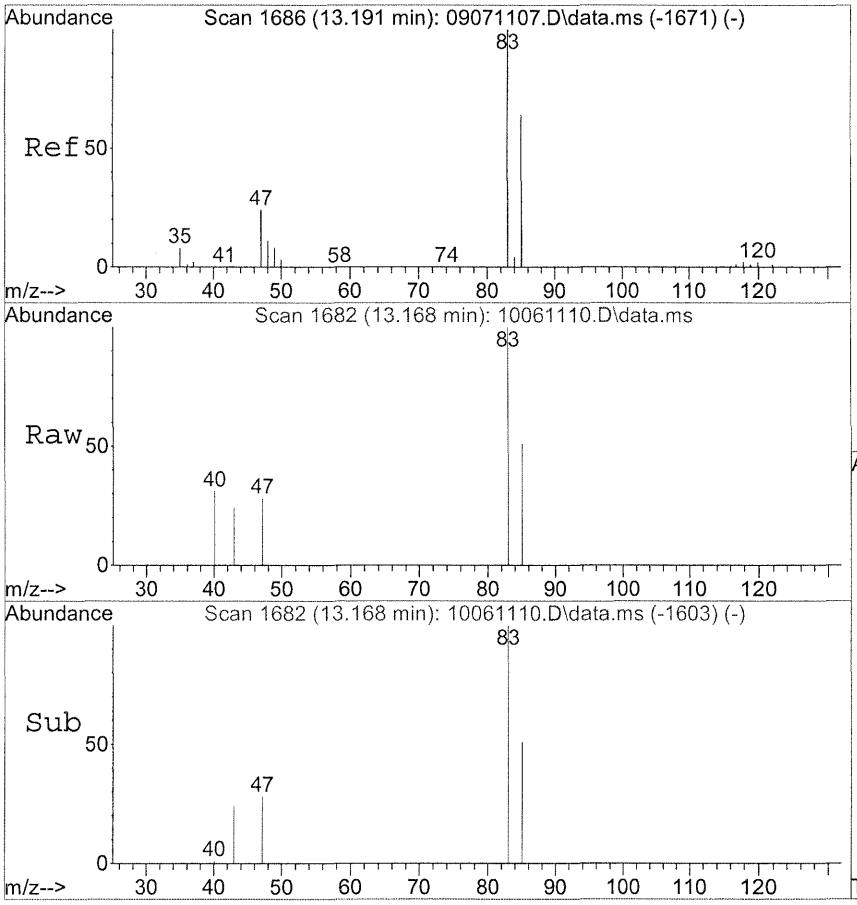


#31
n-Hexane
Concen: 0.27 ng
RT: 13.11 min Scan# 1671
Delta R.T. -0.012 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 57 Resp: 8470

Ion	Ratio	Lower	Upper
57	100		
56	54.5	41.8	62.8
86	18.1	17.0	25.4

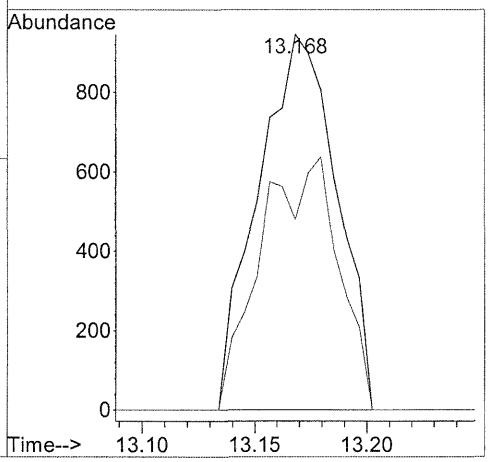


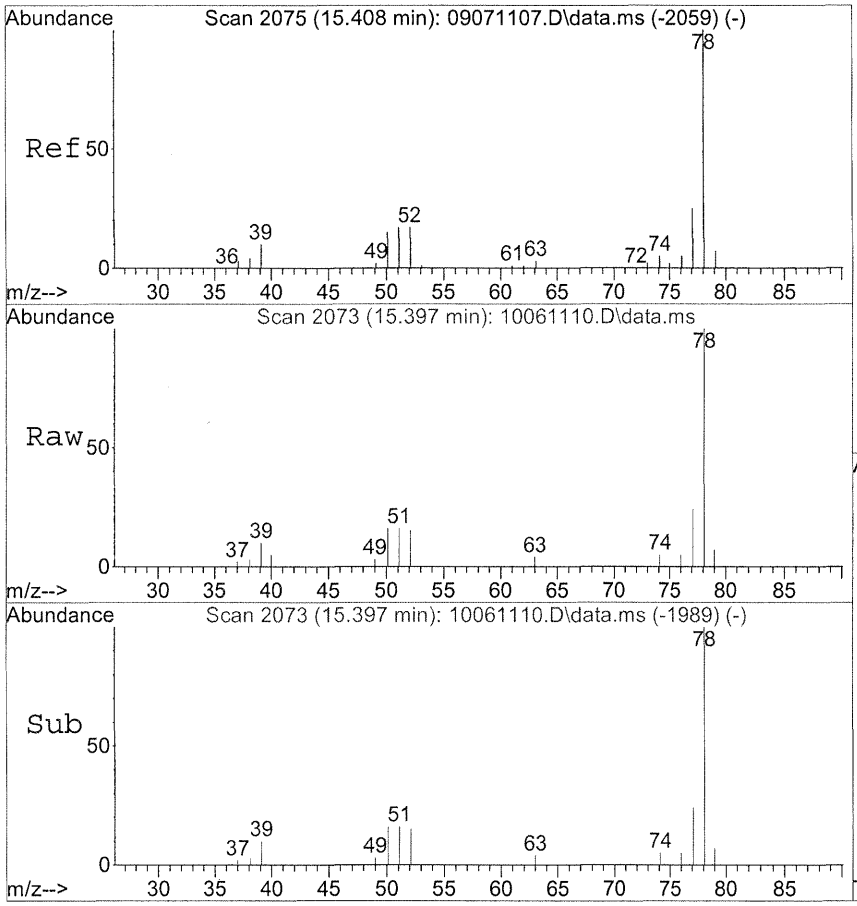


#32
Chloroform
Concen: 0.10 ng
RT: 13.17 min Scan# 1682
Delta R.T. -0.051 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 83 Resp: 2301

Ion	Ratio	Lower	Upper
83	100		
85	67.0	45.3	85.3

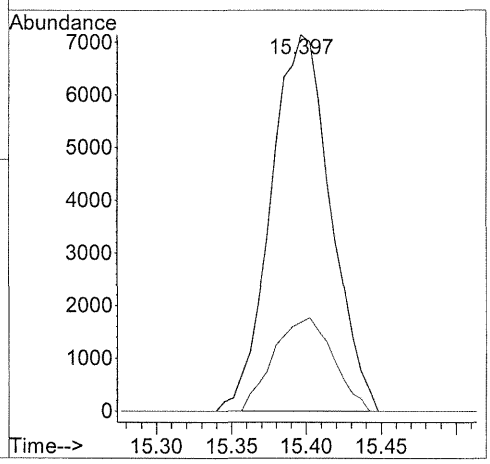


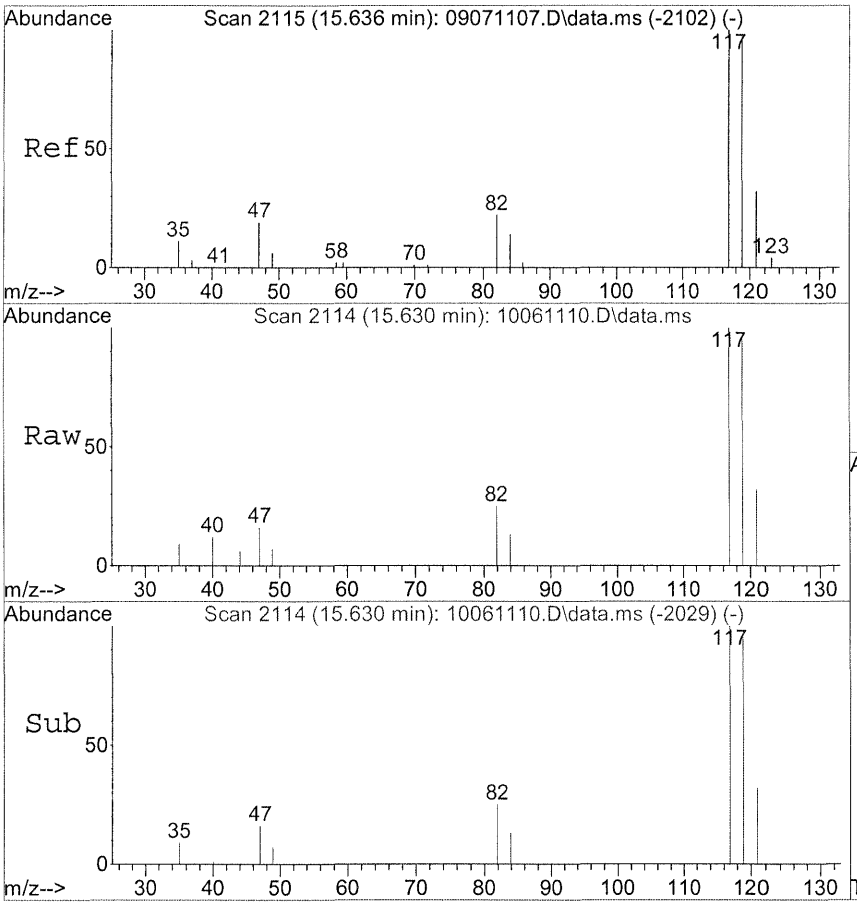


#41
Benzene
Concen: 0.32 ng
RT: 15.40 min Scan# 2073
Delta R.T. -0.023 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 78 Resp: 19843

Ion	Ratio	Lower	Upper
78	100		
77	24.4	4.0	44.0

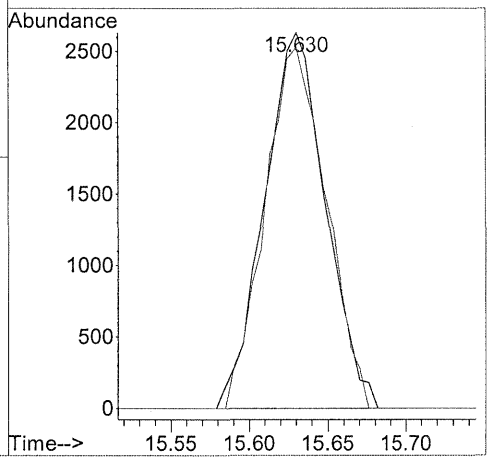


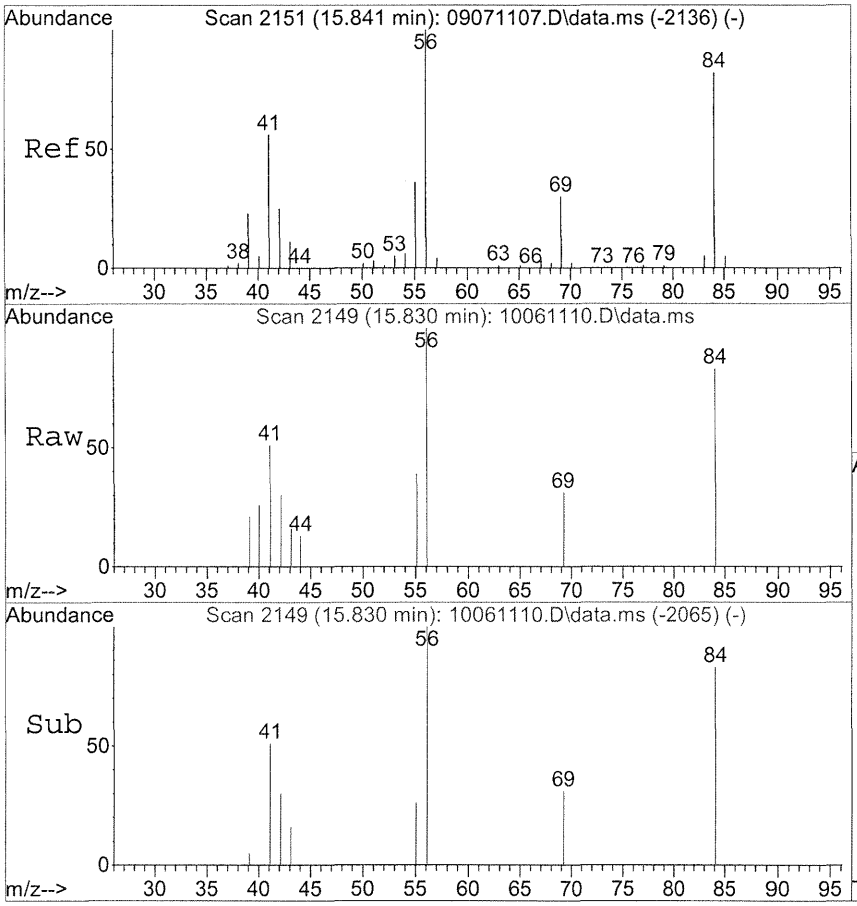


#42
Carbon Tetrachloride
Concen: 0.37 ng
RT: 15.63 min Scan# 2114
Delta R.T. -0.017 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion:117 Resp: 7087

Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.0	117.0

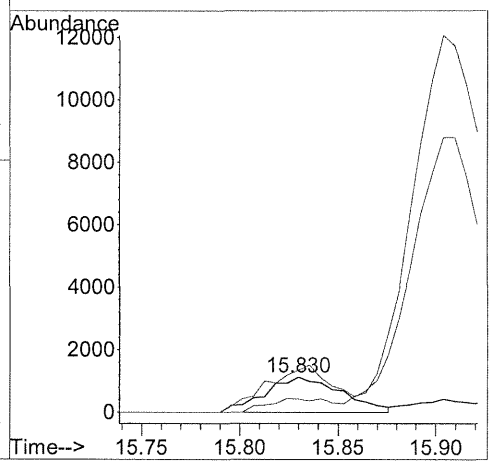


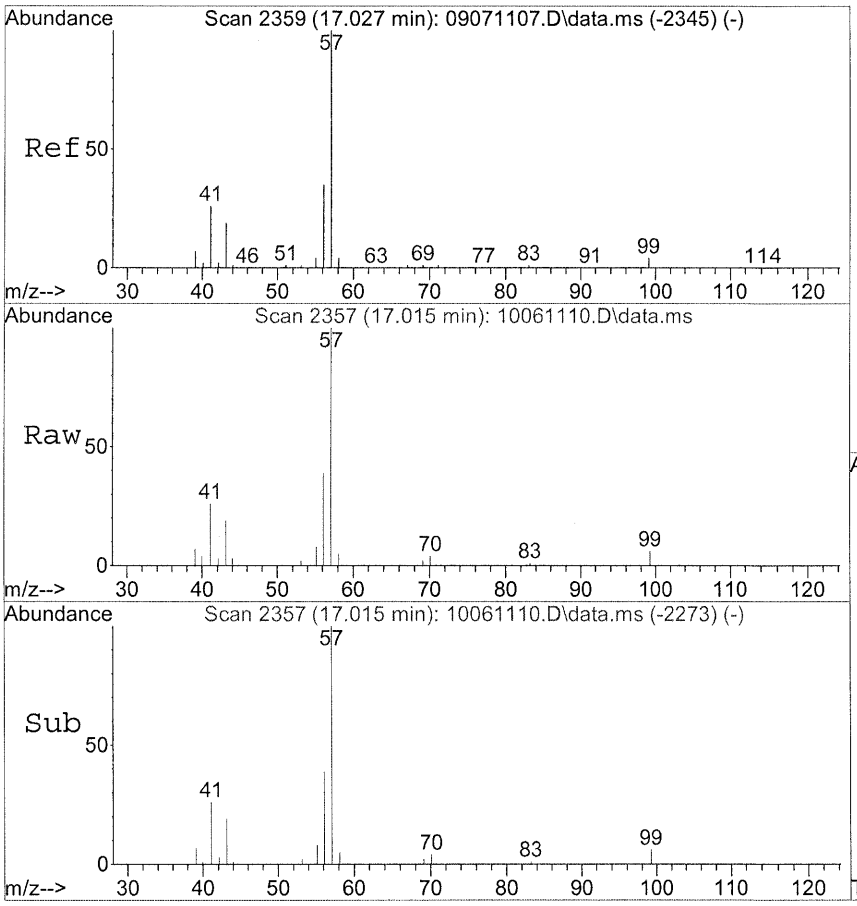


#43
Cyclohexane
Concen: 0.11 ng
RT: 15.83 min Scan# 2149
Delta R.T. -0.023 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 84 Resp: 3002

Ion	Ratio	Lower	Upper
84	100		
69	33.1	16.9	56.9
56	116.5	87.7	127.7

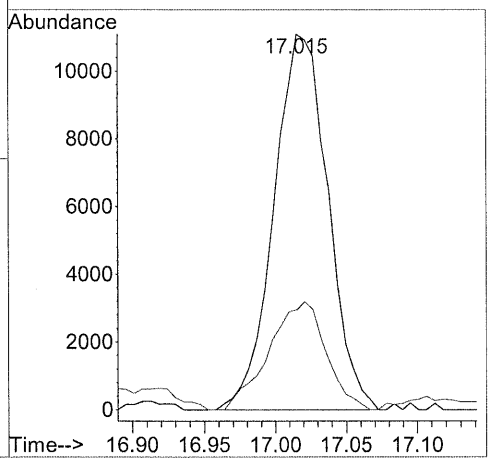


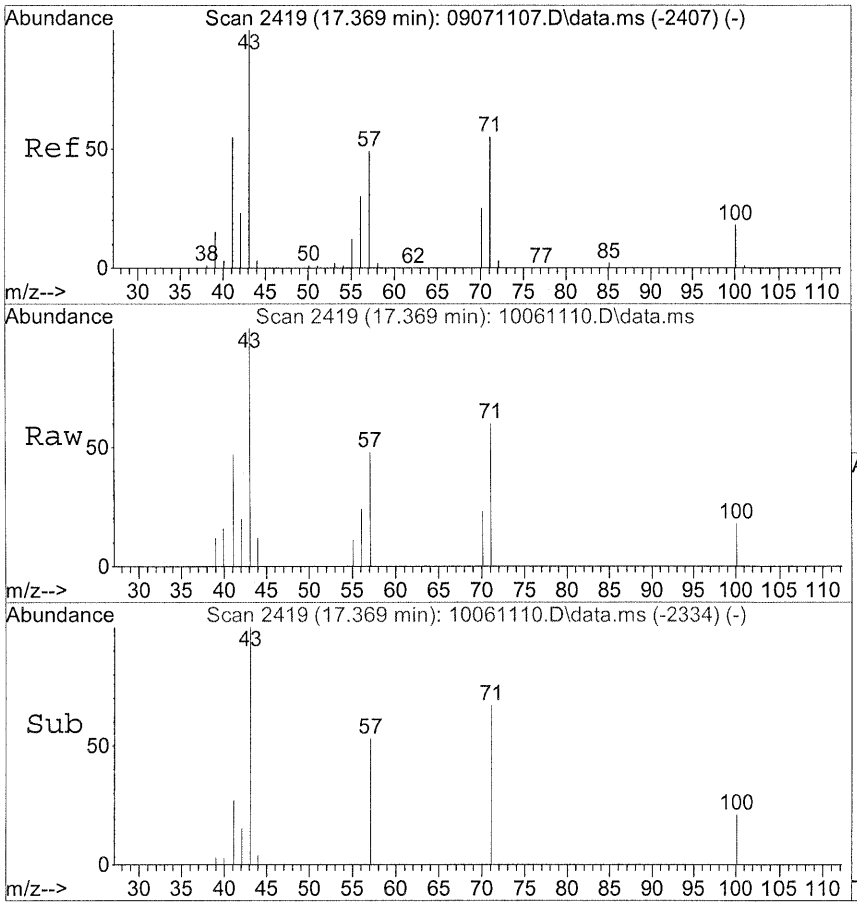


#49
2,2,4-Trimethylpentane (Isooc
Concen: 0.39 ng
RT: 17.02 min Scan# 2357
Delta R.T. -0.023 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 57 Resp: 29379

Ion	Ratio	Lower	Upper
57	100		
41	30.2	10.2	50.2

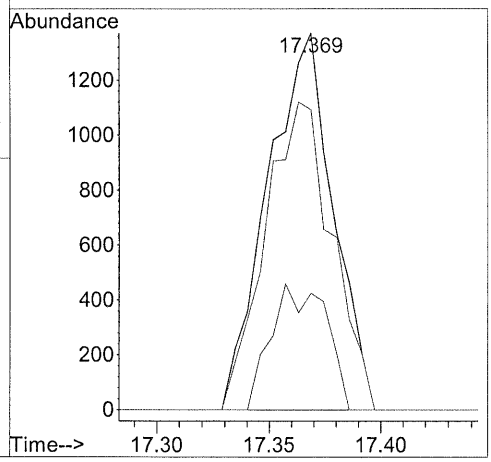


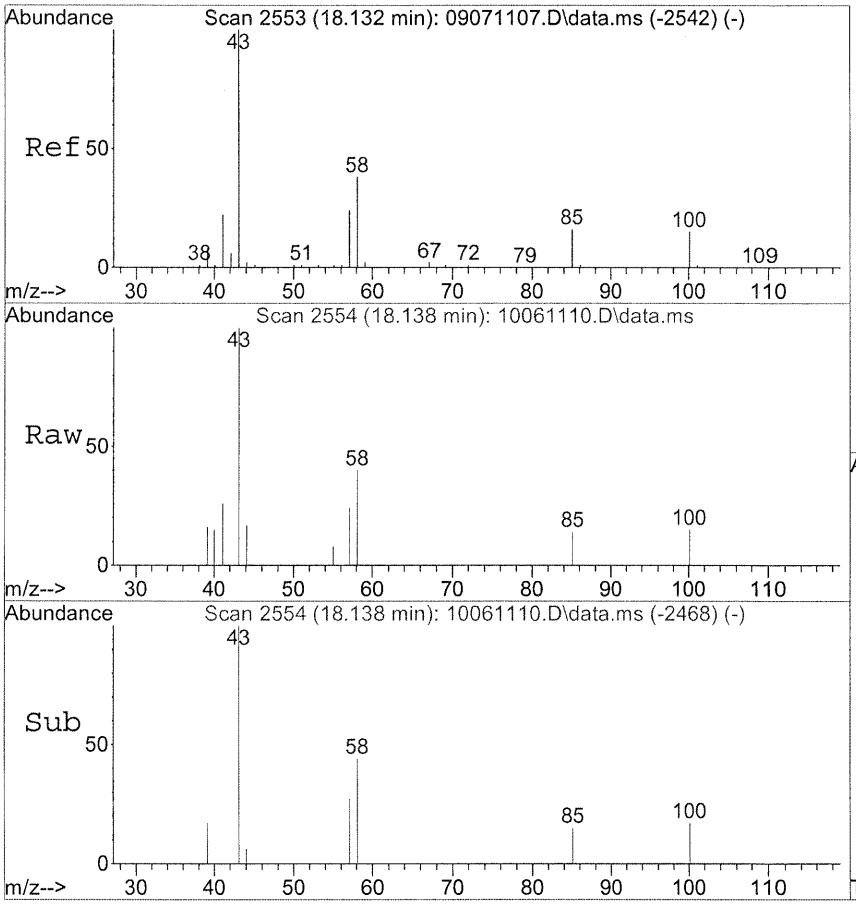


#51
n-Heptane
Concen: 0.15 ng
RT: 17.37 min Scan# 2419
Delta R.T. -0.017 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 71 Resp: 2788

Ion	Ratio	Lower	Upper
71	100		
57	84.0	59.7	99.7
100	28.3	15.2	55.2

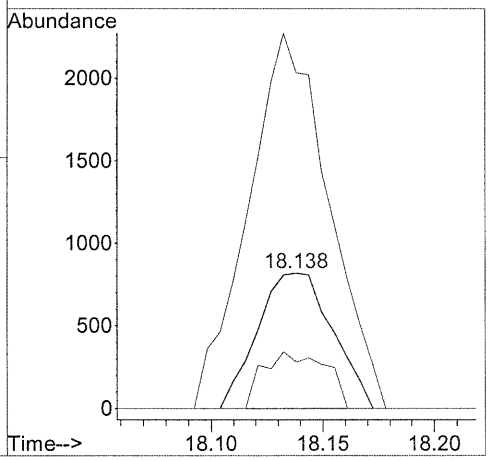


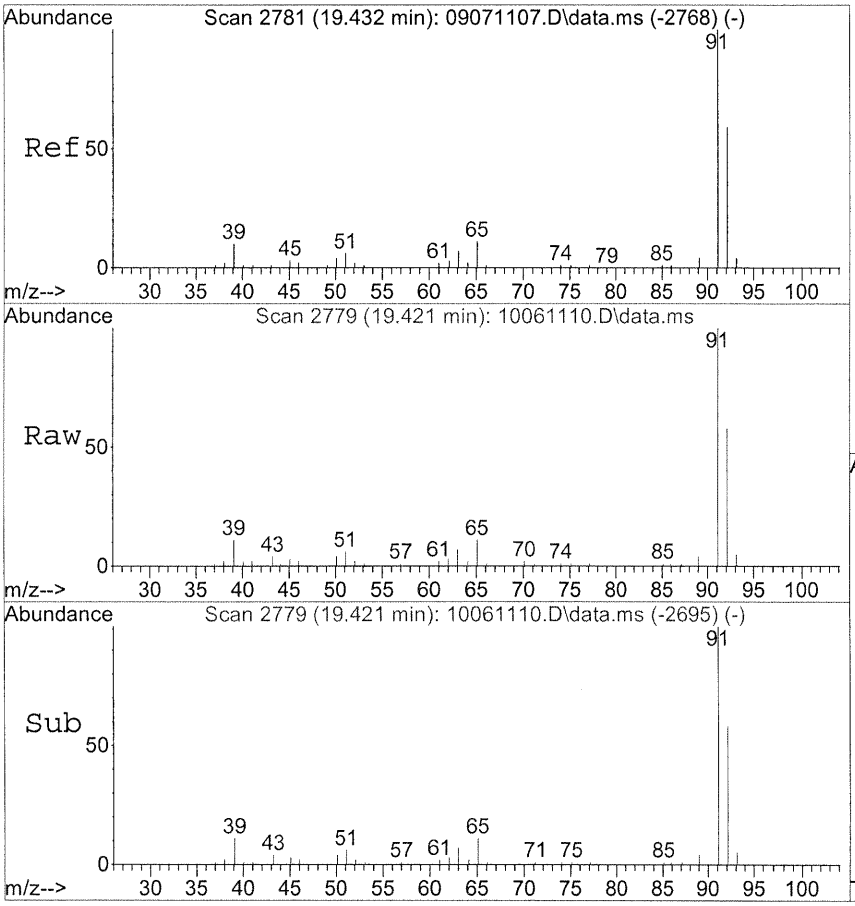


#53
4-Methyl-2-pentanone
Concen: 0.12 ng
RT: 18.14 min Scan# 2554
Delta R.T. -0.012 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 58 Resp: 1907

Ion	Ratio	Lower	Upper
58	100		
43	298.2	195.7	293.5#
85	34.8	43.7	65.5#

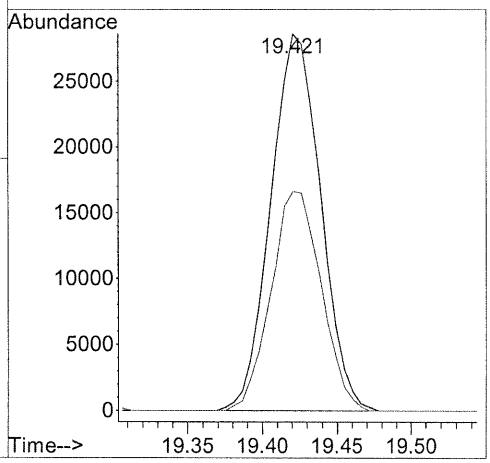


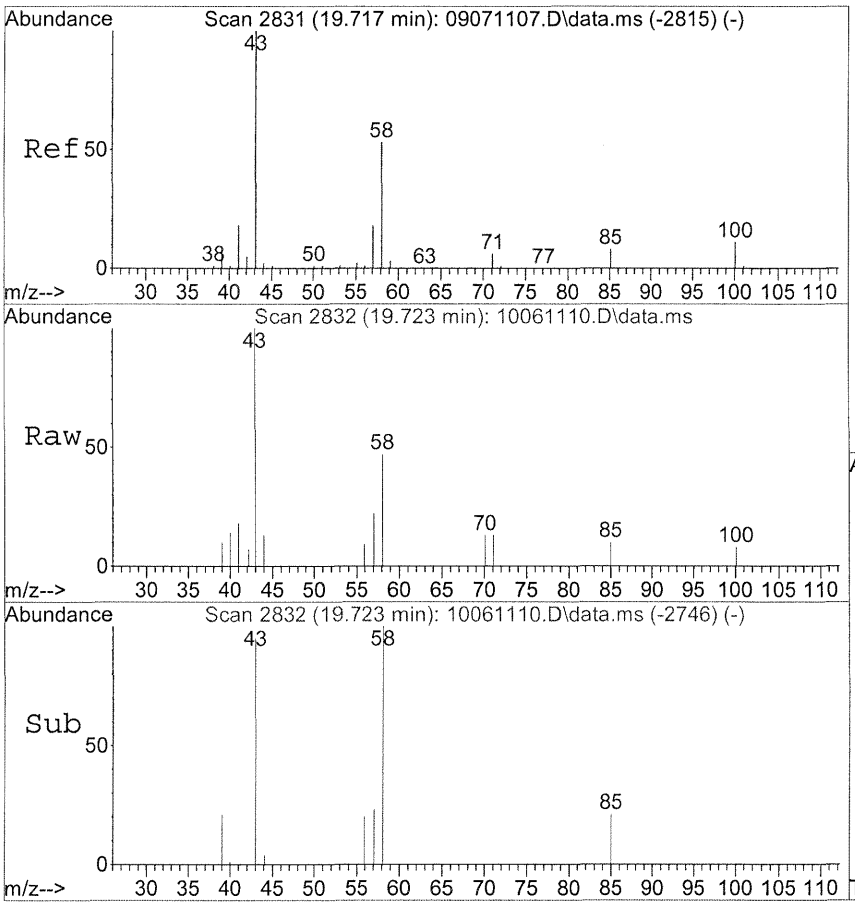


#58
Toluene
Concen: 0.99 ng
RT: 19.42 min Scan# 2779
Delta R.T. -0.023 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 91 Resp: 66063

Ion	Ratio	Lower	Upper
91	100		
92	58.5	38.8	78.8

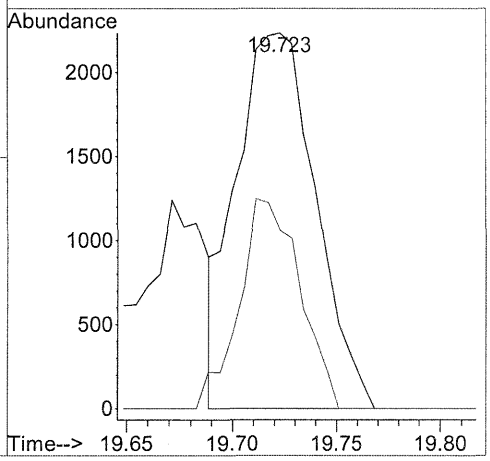


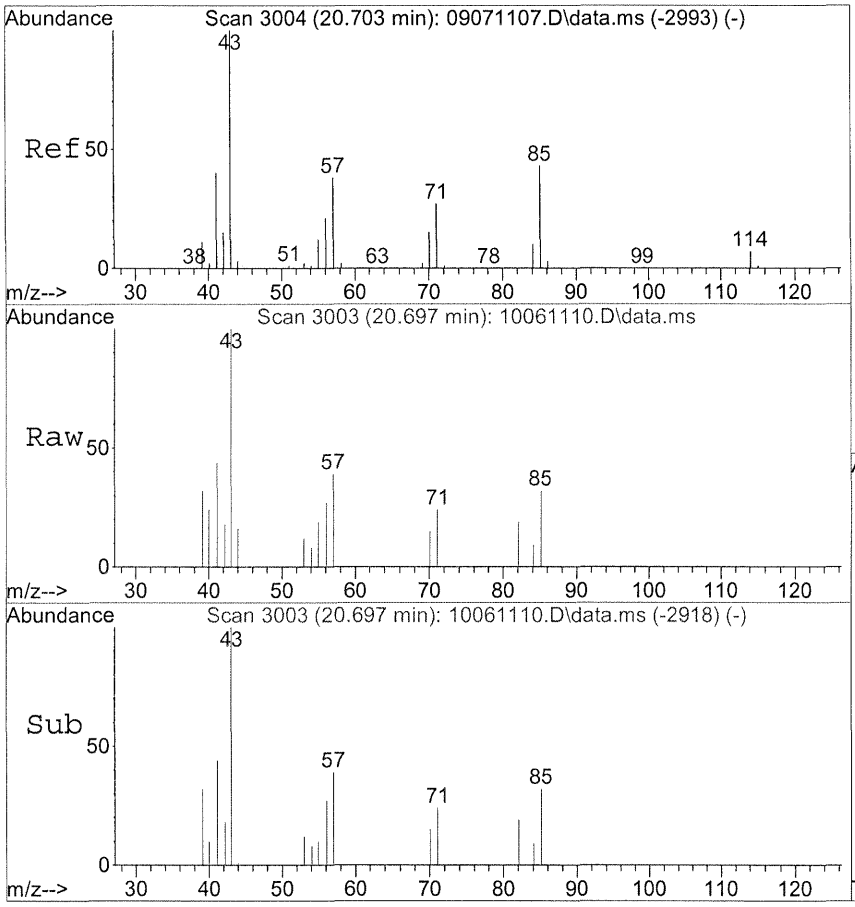


#59
2-Hexanone
Concen: 0.16 ng
RT: 19.72 min Scan# 2832
Delta R.T. -0.012 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 43 Resp: 5927

Ion	Ratio	Lower	Upper
43	100		
58	42.5	37.7	77.7

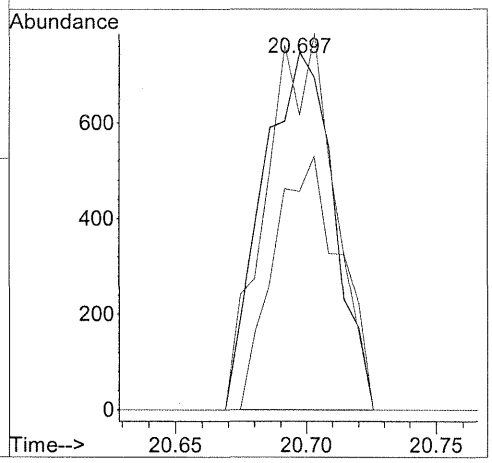


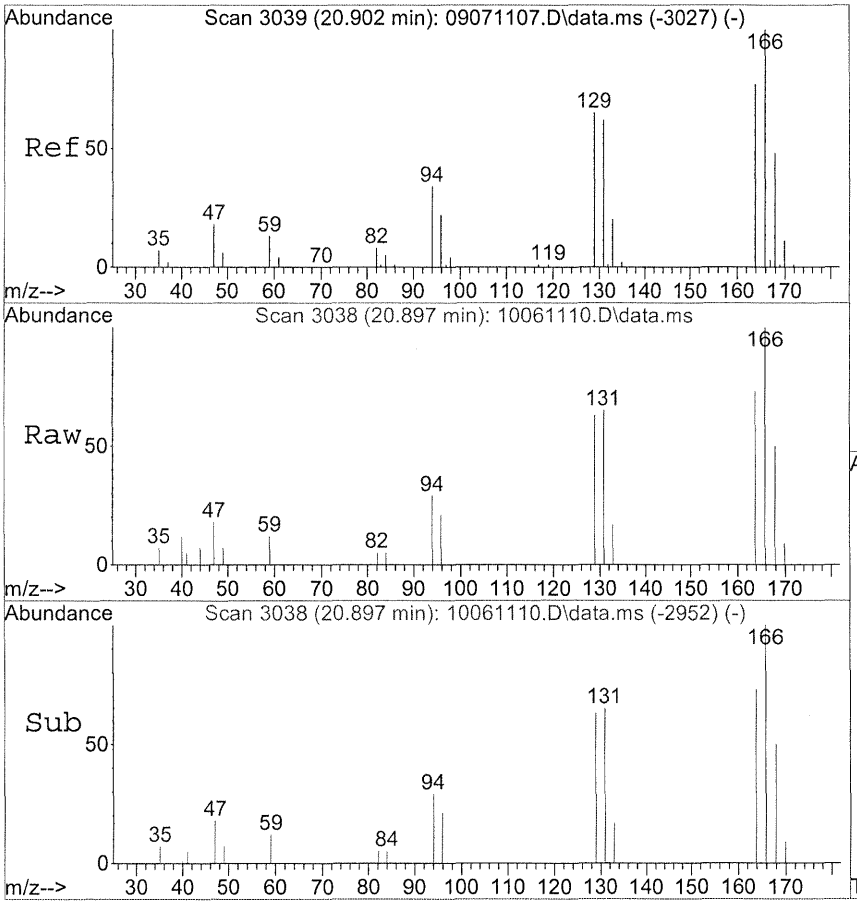


#63
n-Octane
Concen: 0.09 ng
RT: 20.70 min Scan# 3003
Delta R.T. -0.017 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 57 Resp: 1423

Ion	Ratio	Lower	Upper
57	100		
85	102.2	110.6	166.0#
71	64.5	61.0	91.6

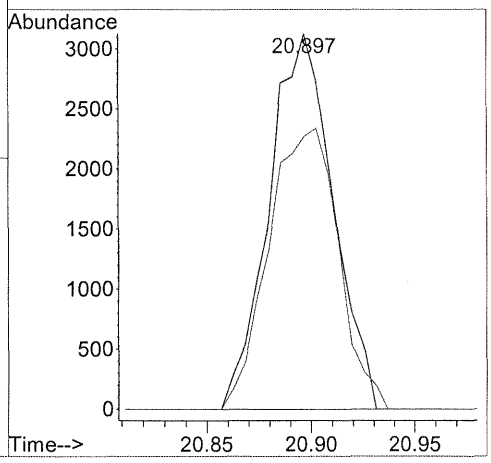


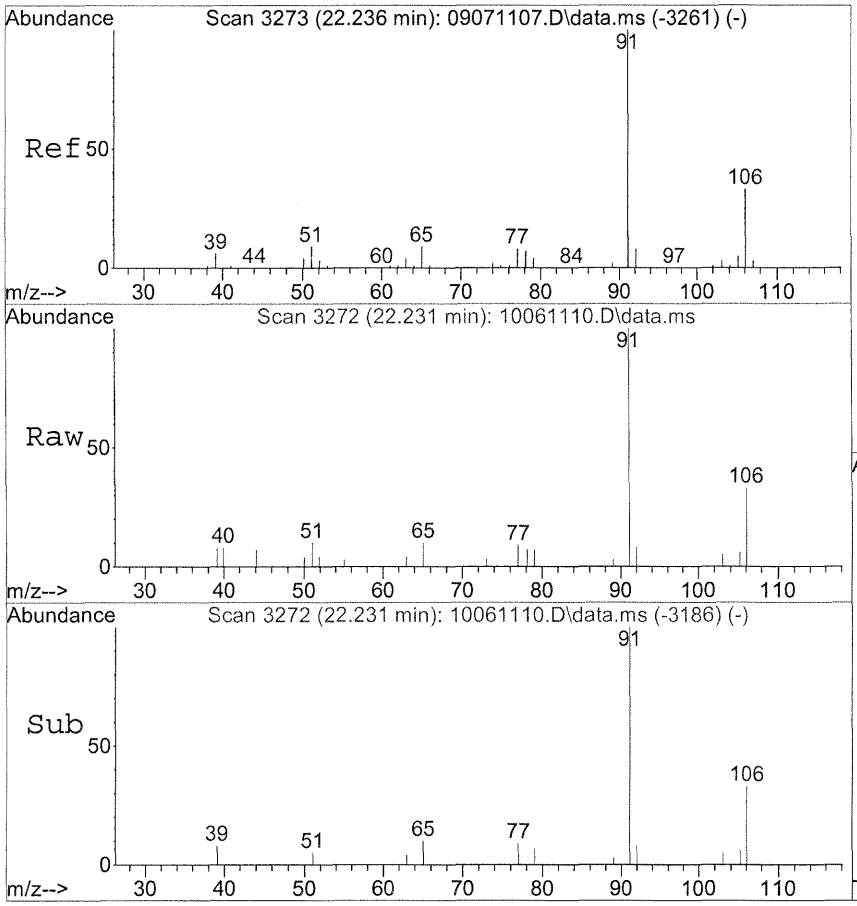


#64
Tetrachloroethene
Concen: 0.32 ng
RT: 20.90 min Scan# 3038
Delta R.T. -0.012 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion:166 Resp: 6689

Ion	Ratio	Lower	Upper
166	100		
164	81.4	58.2	98.2

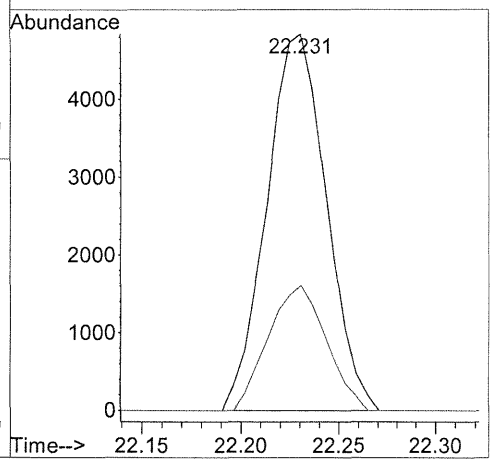


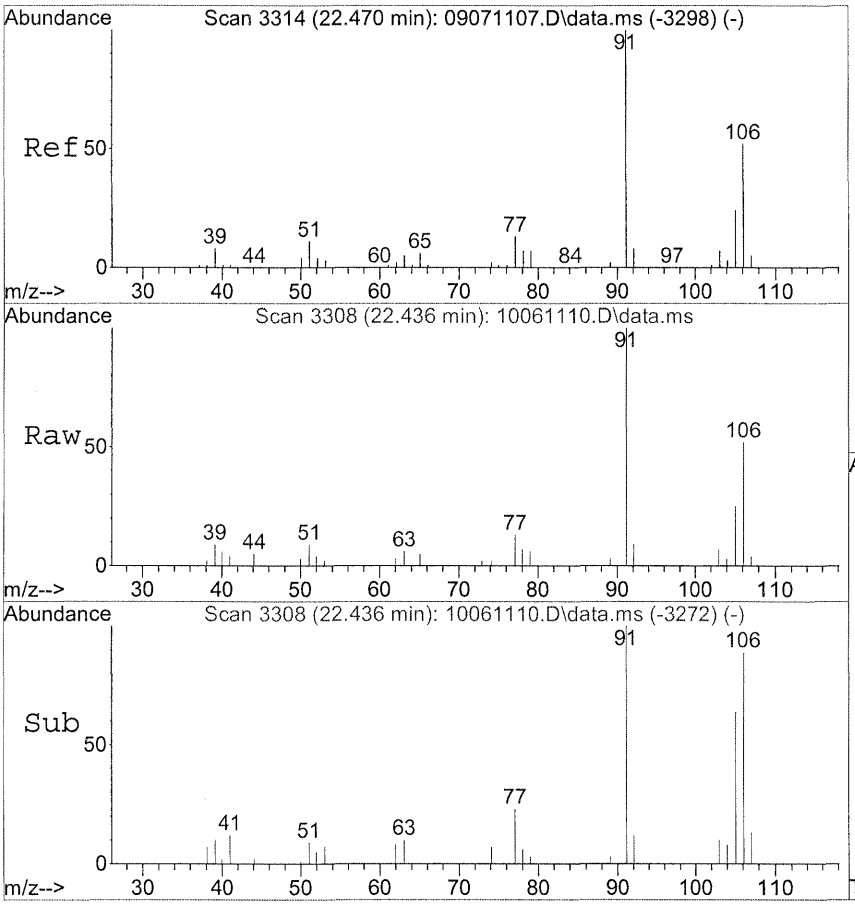


#66
Ethylbenzene
Concen: 0.14 ng
RT: 22.23 min Scan# 3272
Delta R.T. -0.012 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 91 Resp: 10243

Ion	Ratio	Lower	Upper
91	100		
106	32.3	12.0	52.0

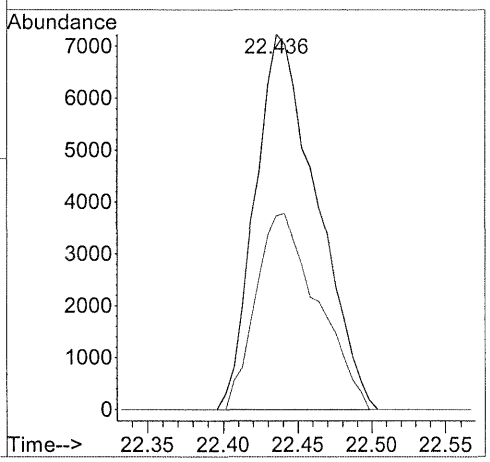


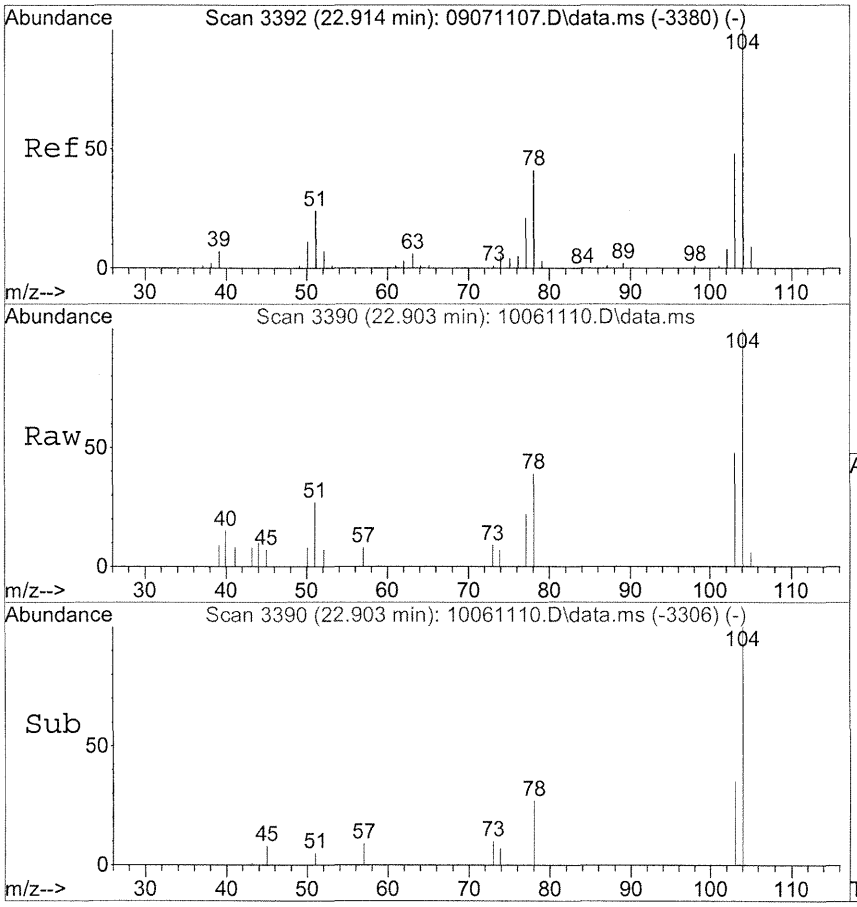


#67
m- & p-Xylenes
Concen: 0.36 ng
RT: 22.44 min Scan# 3308
Delta R.T. -0.046 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 91 Resp: 20813

Ion	Ratio	Lower	Upper
91	100		
106	52.3	27.4	67.4

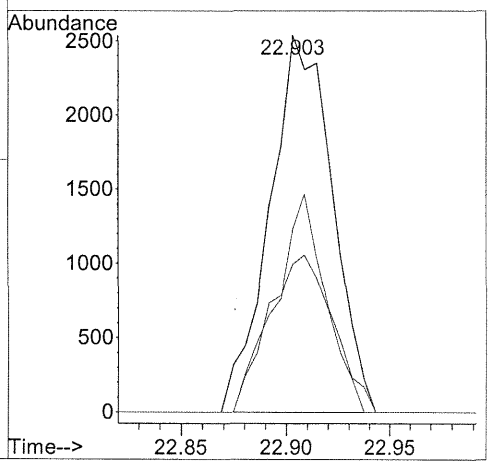


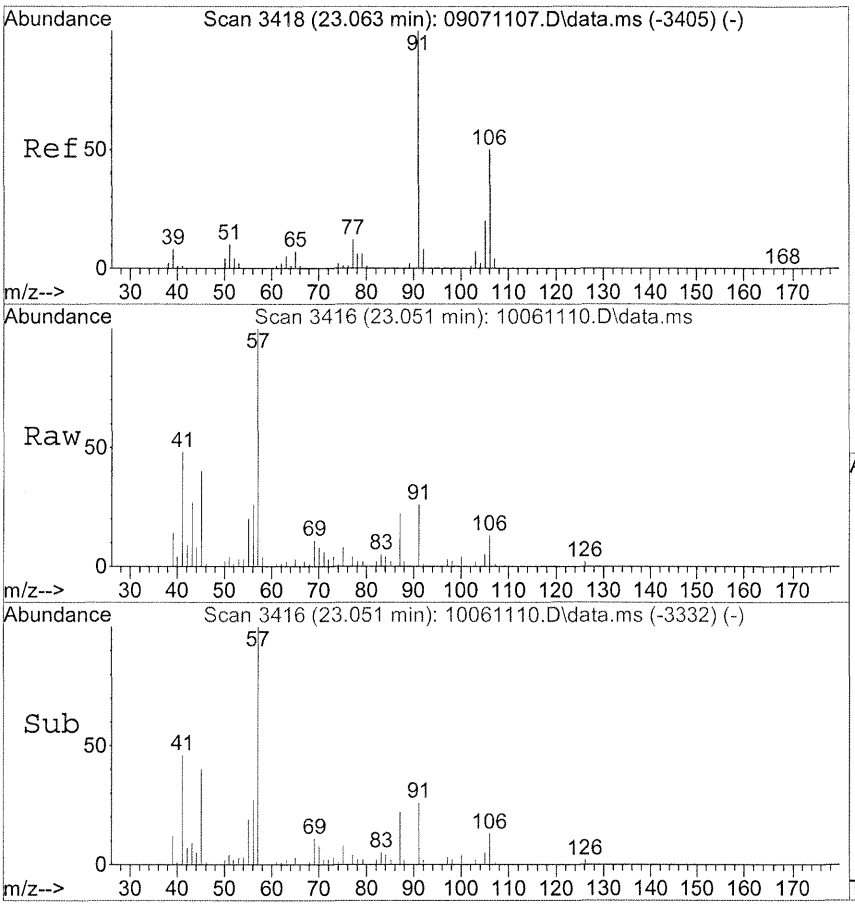


#69
Styrene
Concen: 0.12 ng
RT: 22.90 min Scan# 3390
Delta R.T. -0.023 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion:104 Resp: 5279

Ion	Ratio	Lower	Upper
104	100		
78	41.5	27.4	67.4
103	48.3	27.3	67.3

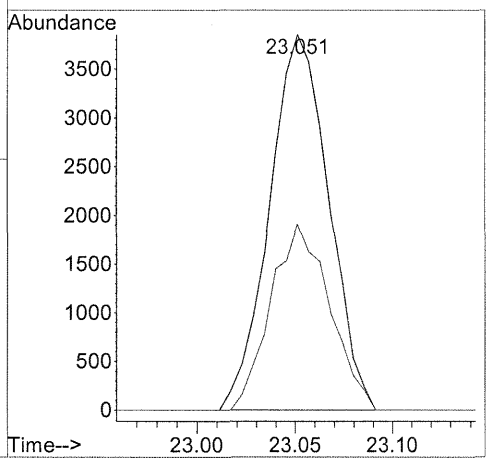


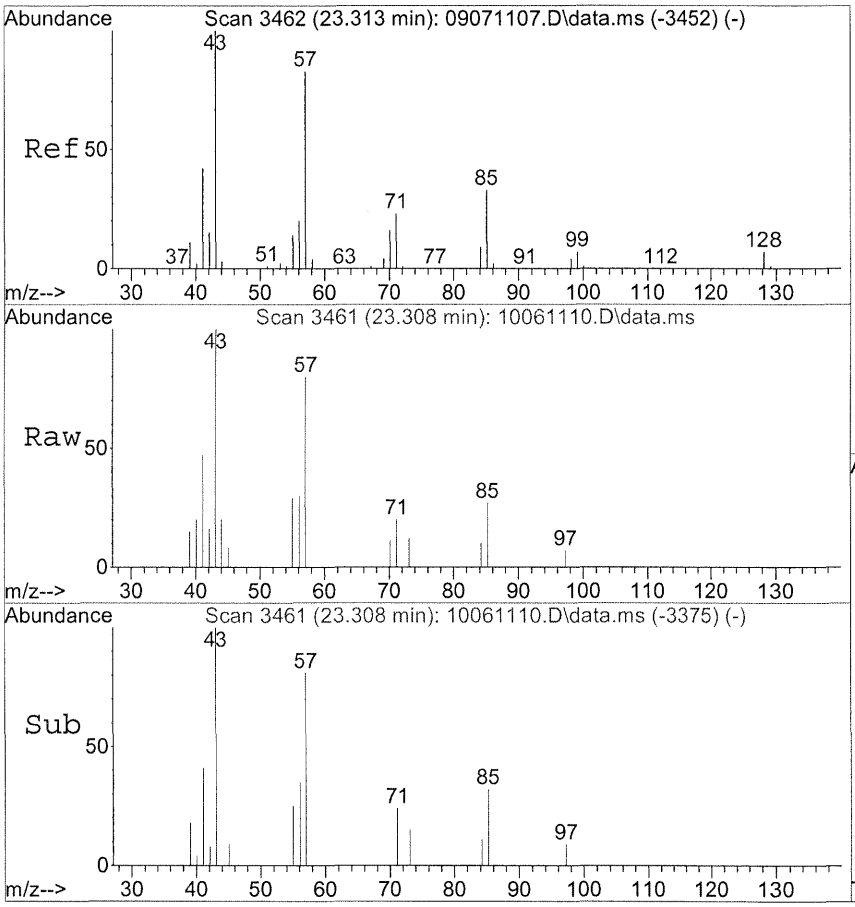


#70
o-Xylene
Concen: 0.13 ng
RT: 23.05 min Scan# 3416
Delta R.T. -0.023 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 91 Resp: 8142

Ion	Ratio	Lower	Upper
91	100		
106	49.2	25.7	65.7

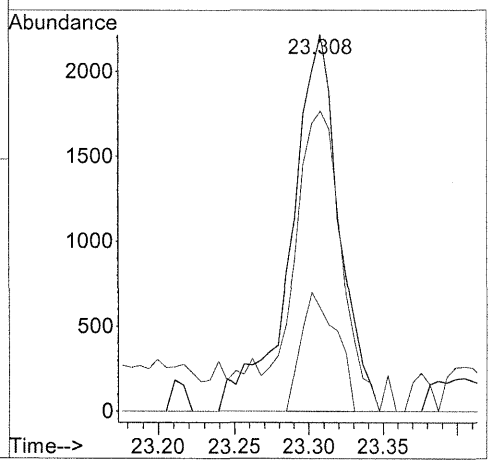


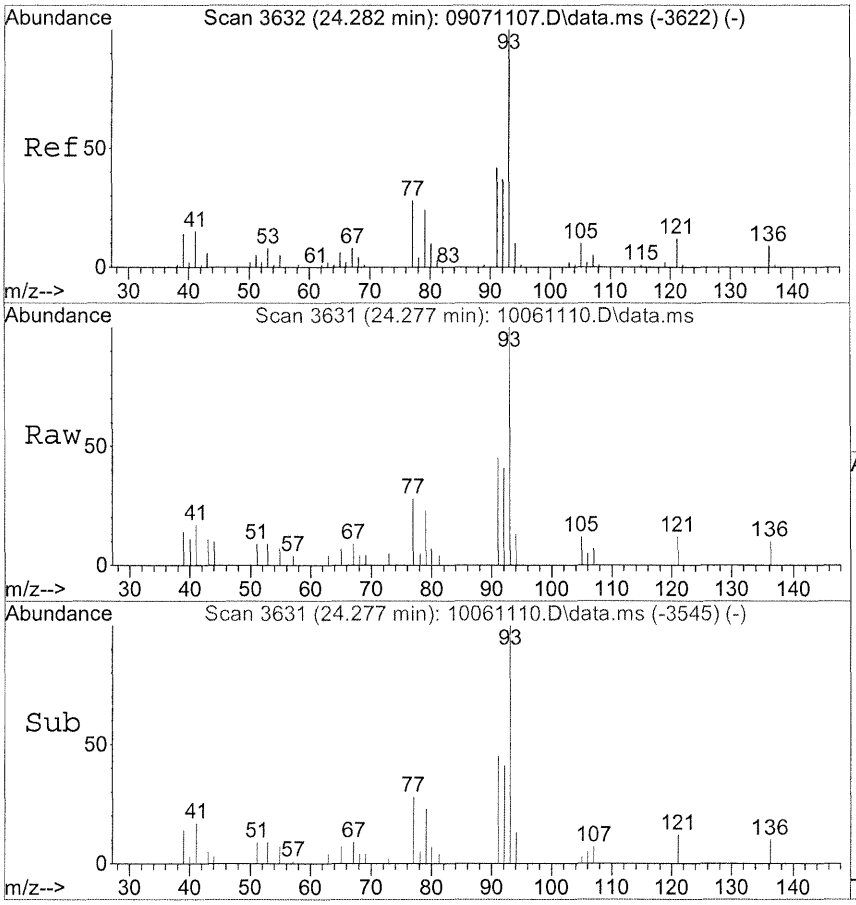


#71
n-Nonane
Concen: 0.12 ng
RT: 23.31 min Scan# 3461
Delta R.T. -0.012 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 43 Resp: 5000

Ion	Ratio	Lower	Upper
43	100		
57	76.6	75.1	115.1
85	23.0	22.0	62.0

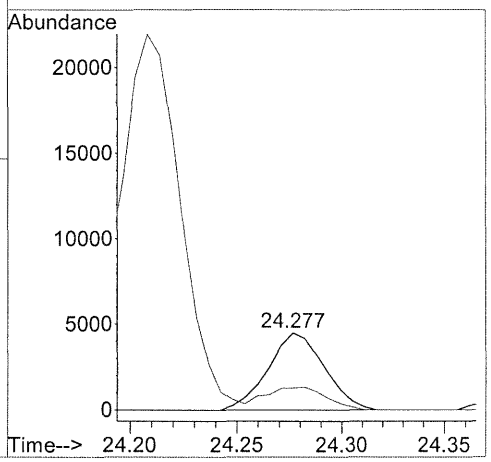


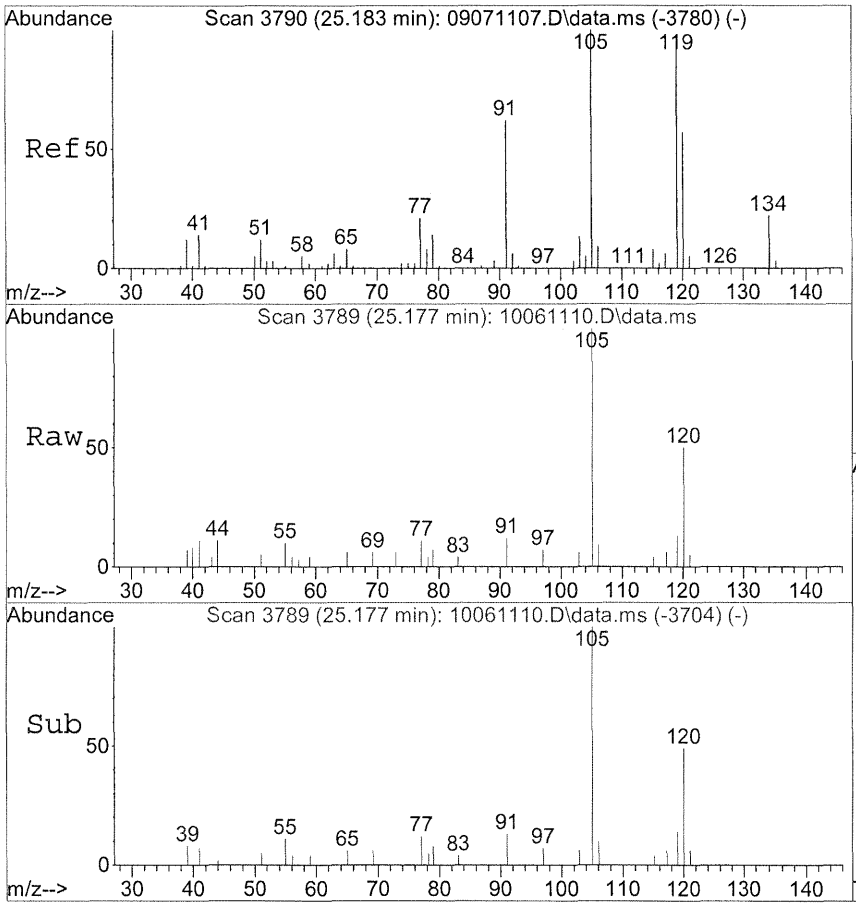


#75
alpha-Pinene
Concen: 0.21 ng
RT: 24.28 min Scan# 3631
Delta R.T. -0.012 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion: 93 Resp: 8354

Ion	Ratio	Lower	Upper
93	100		
77	31.7	12.5	52.5

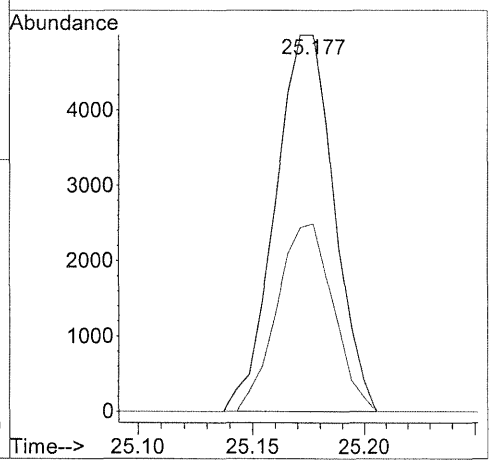


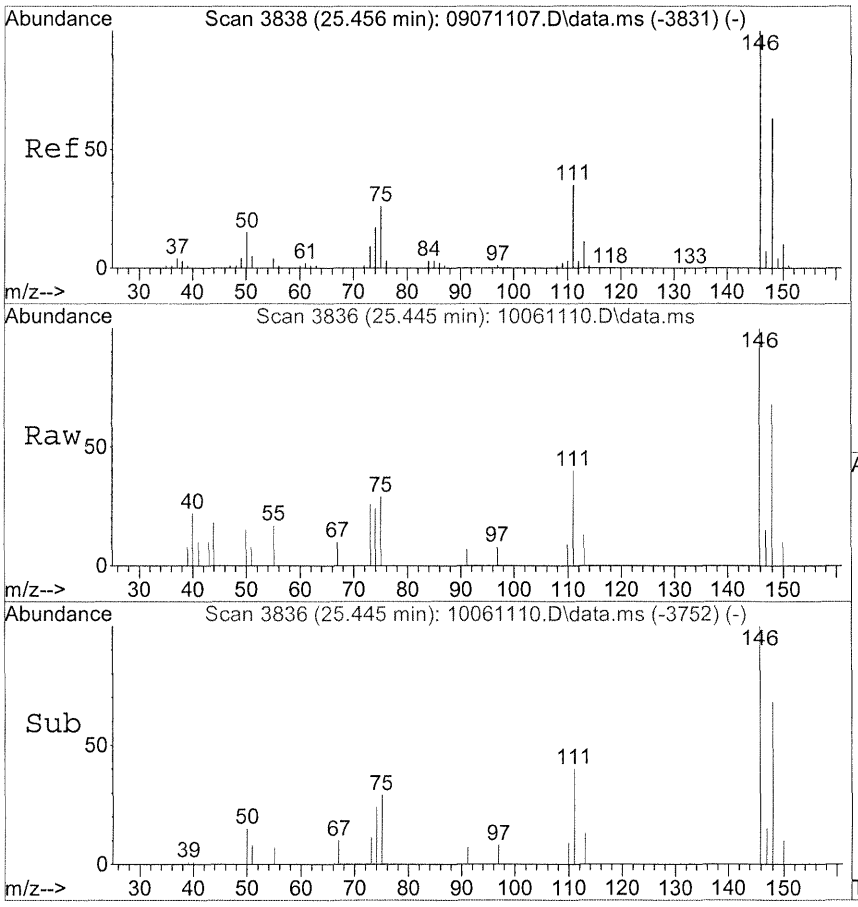


#82
1,2,4-Trimethylbenzene
Concen: 0.14 ng
RT: 25.18 min Scan# 3789
Delta R.T. -0.017 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion:105 Resp: 9148

Ion	Ratio	Lower	Upper
105	100		
120	47.4	29.9	69.9

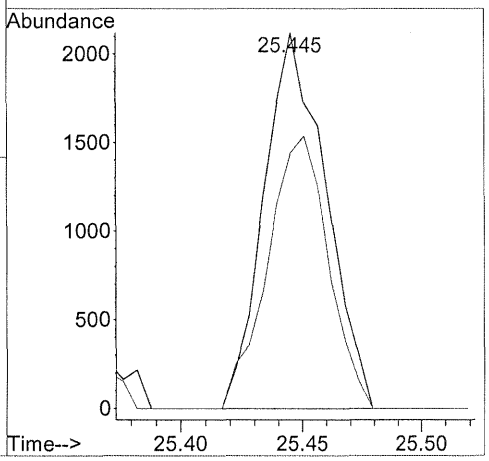


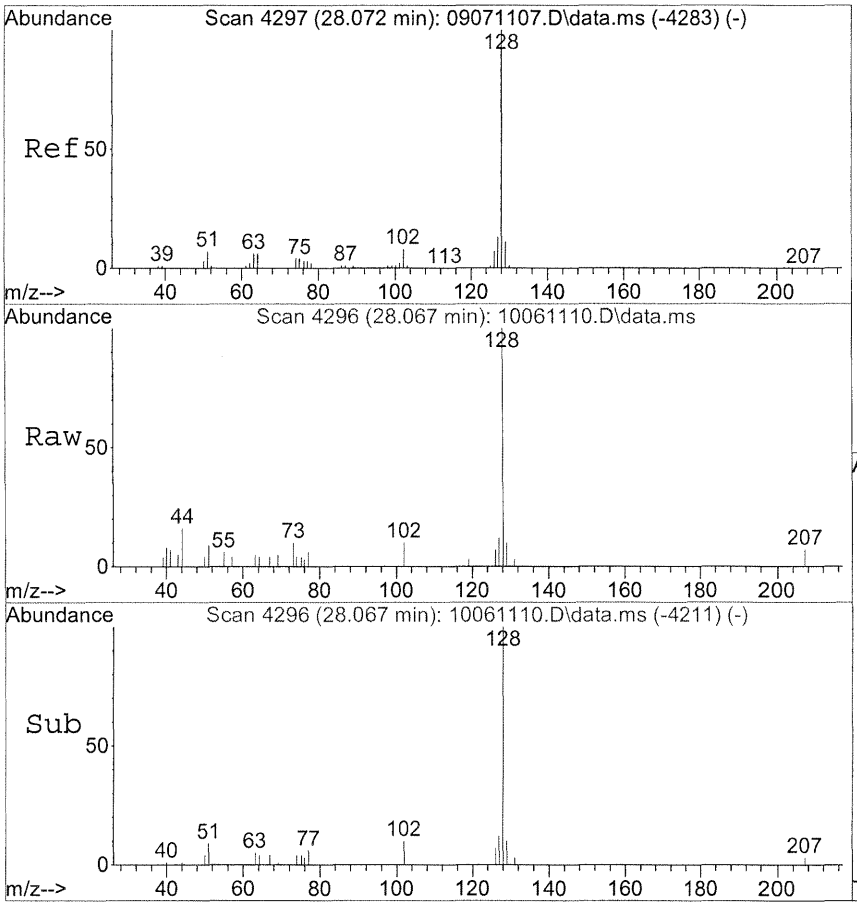


#86
1,4-Dichlorobenzene
Concen: 0.09 ng
RT: 25.45 min Scan# 3836
Delta R.T. -0.023 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion:146 Resp: 3781

Ion	Ratio	Lower	Upper
146	100		
148	71.4	43.2	83.2

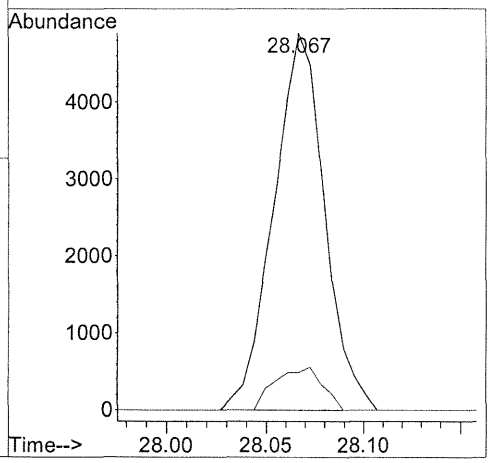




#95
Naphthalene
Concen: 0.09 ng
RT: 28.07 min Scan# 4296
Delta R.T. -0.017 min
Lab File: 10061110.D
Acq: 6 Oct 2011 15:58

Tgt Ion:128 Resp: 8872

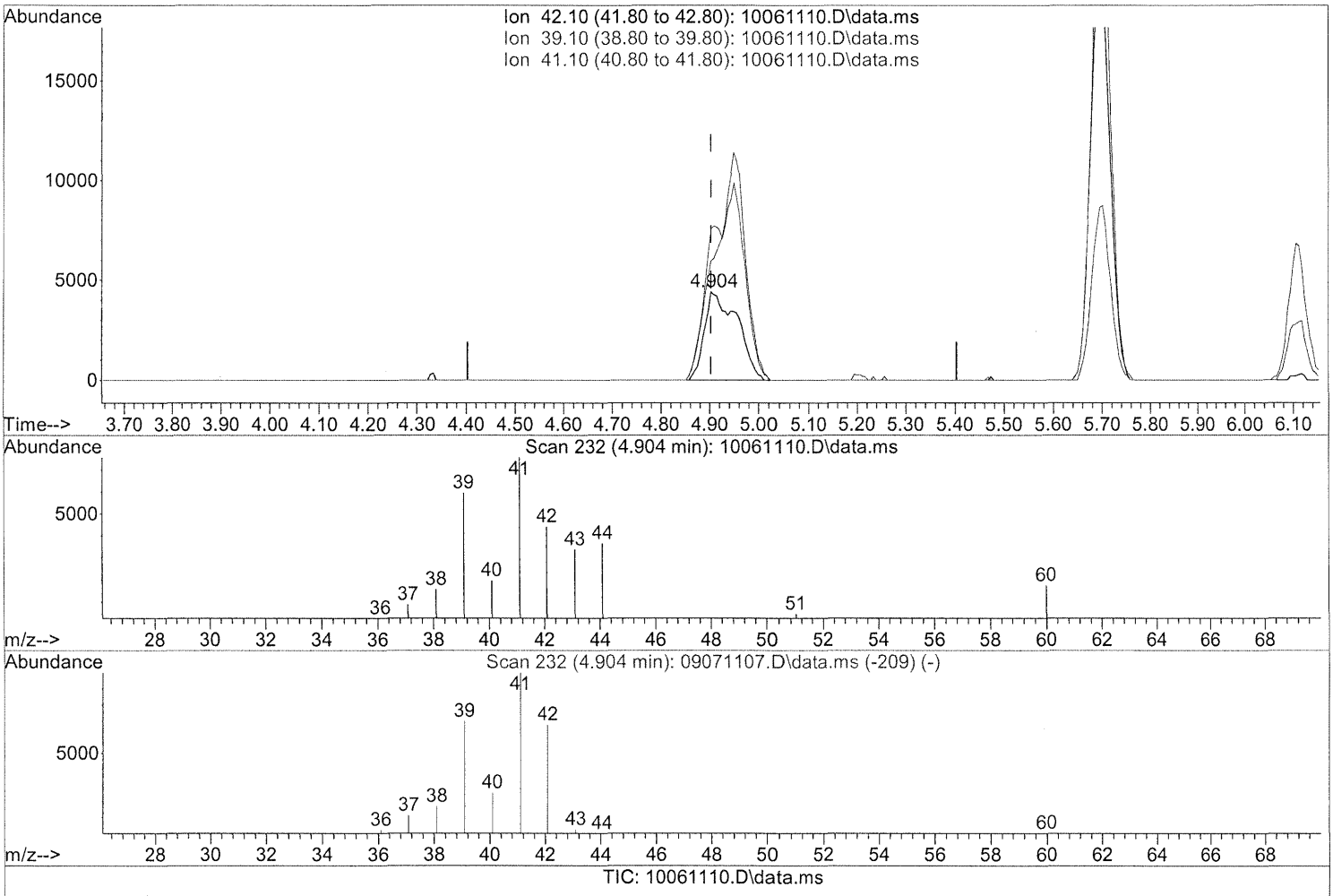
Ion	Ratio	Lower	Upper
128	100		
129	10.5	0.0	31.1



Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061110.D\data.ms

(2) Propene (T)

4.904min (-0.000) 0.88ng

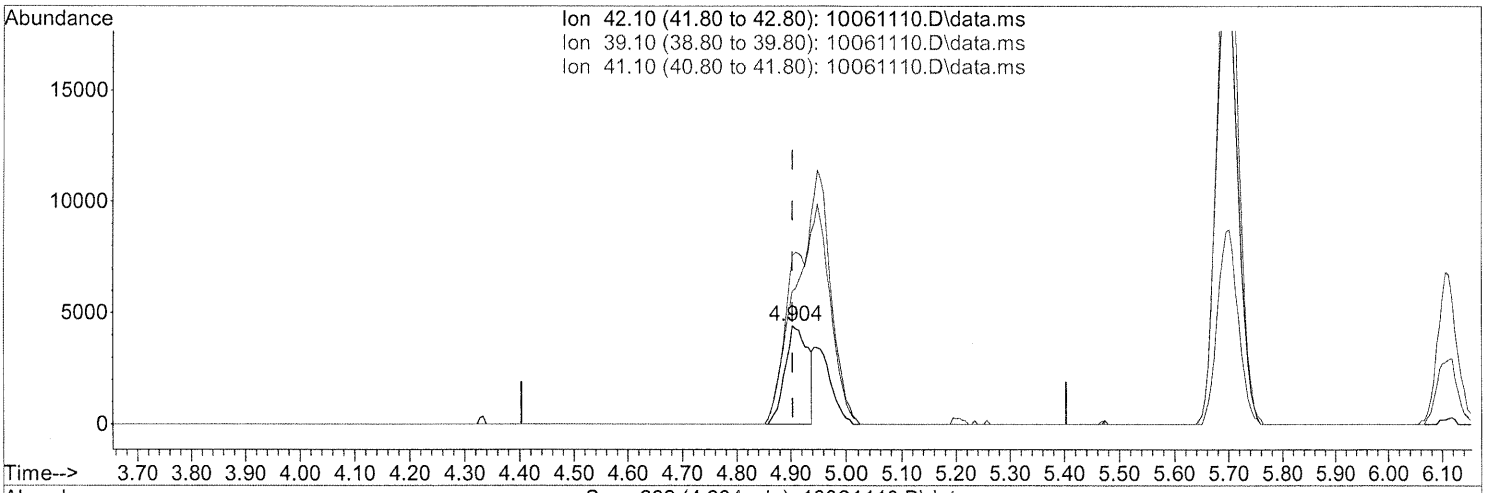
response 20477

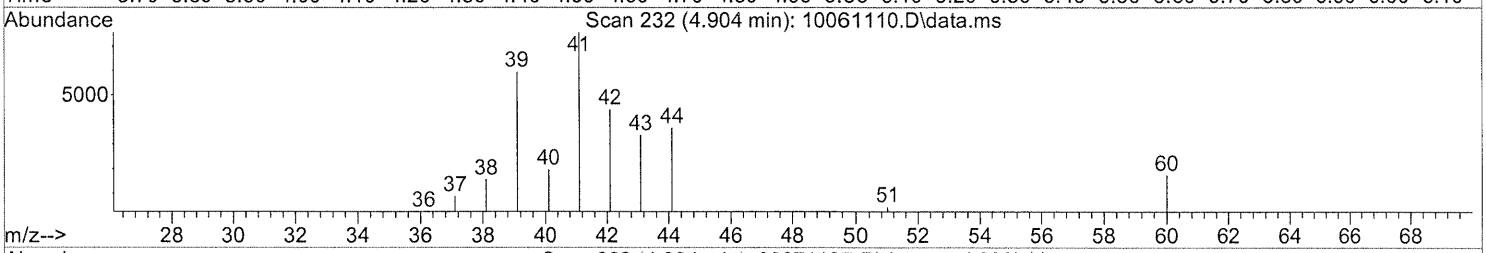
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	0.00#
0.00	0.00	0.00

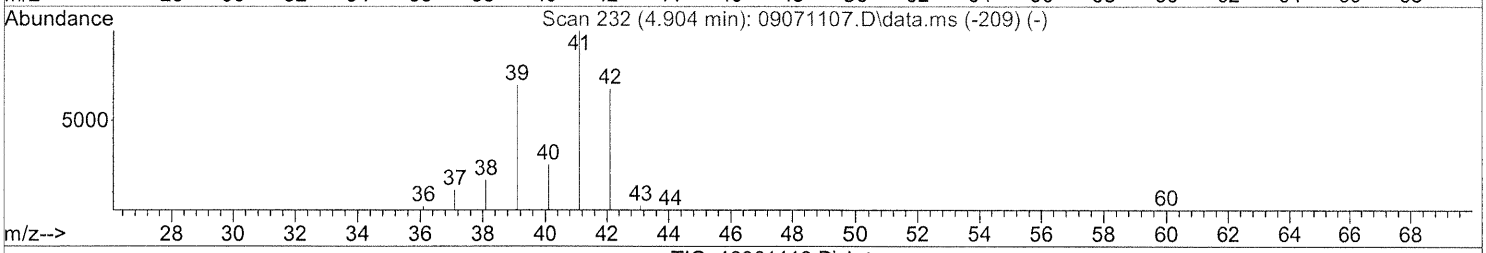
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061110.D\data.ms

(2) Propene (T)

4.904min (-0.000) 0.55ng m

response 12882

Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	0.00#
0.00	0.00	0.00

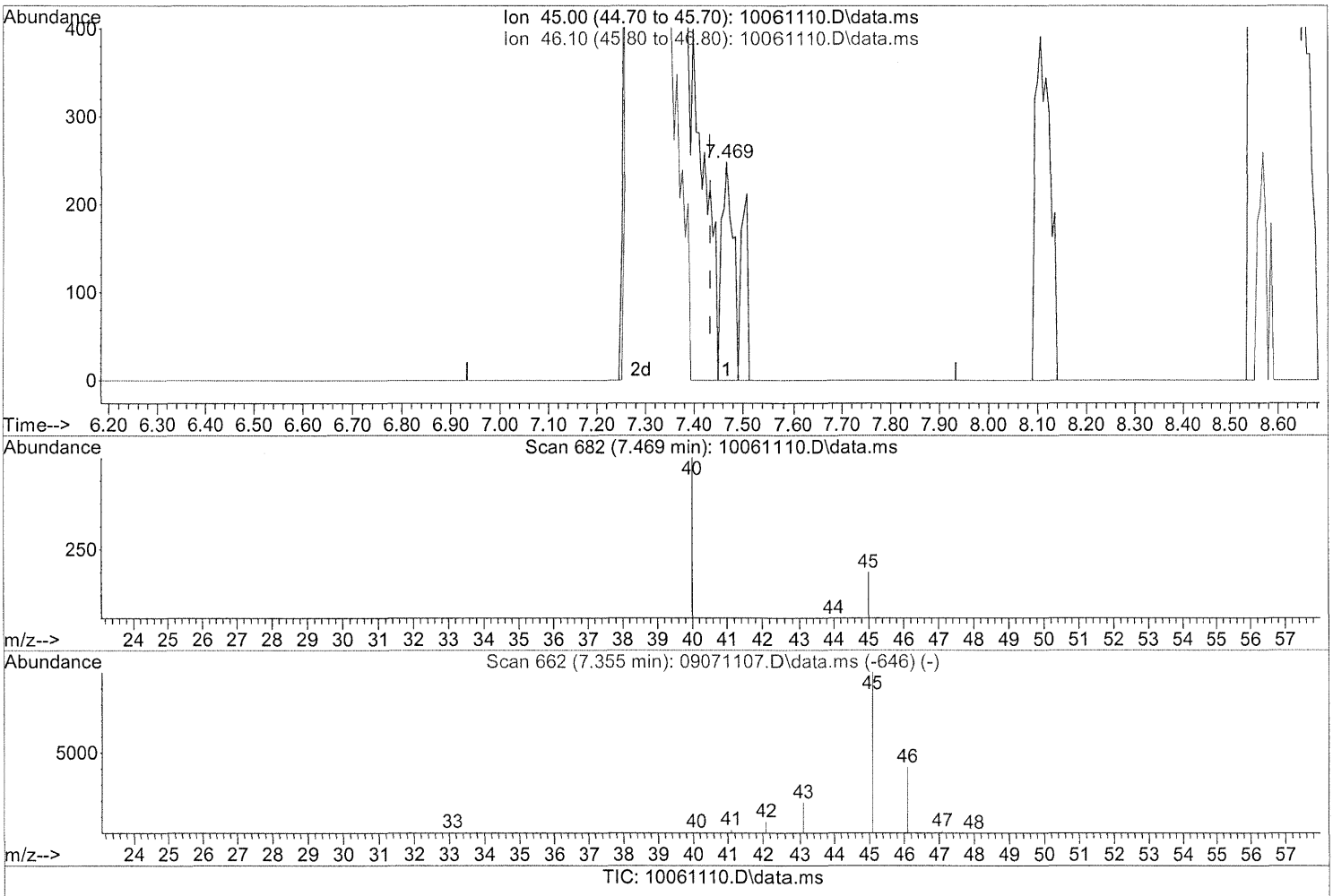
IPC
10/7/11

10/7/11

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061110.D\data.ms

(10) Ethanol (T)

7.469min (+0.034) 0.03ng

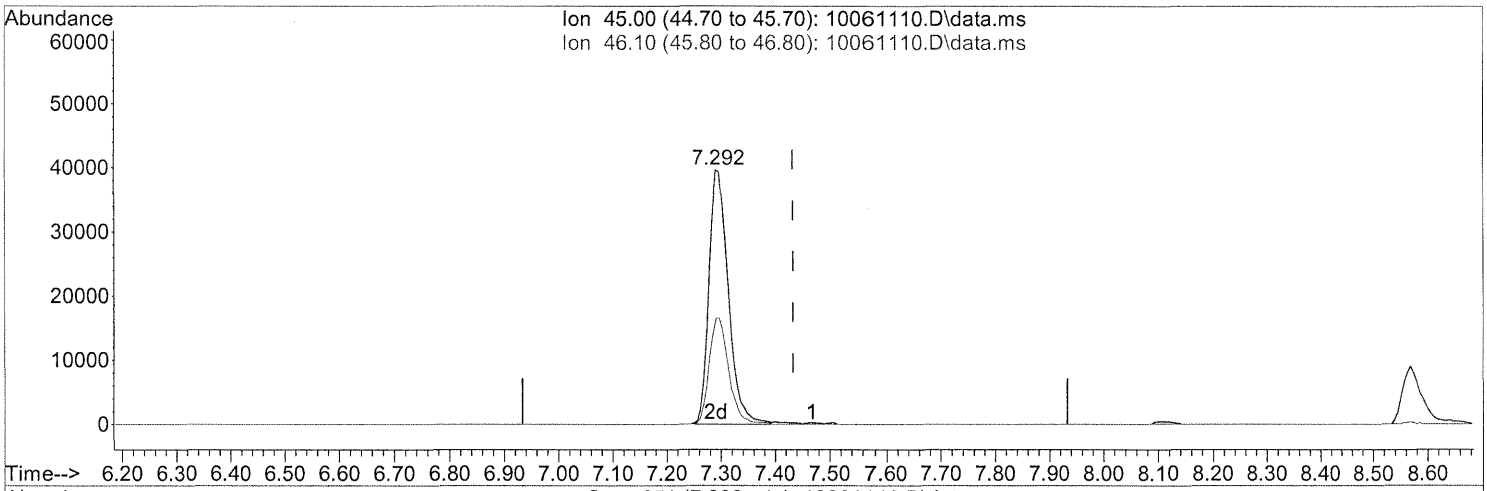
response 389

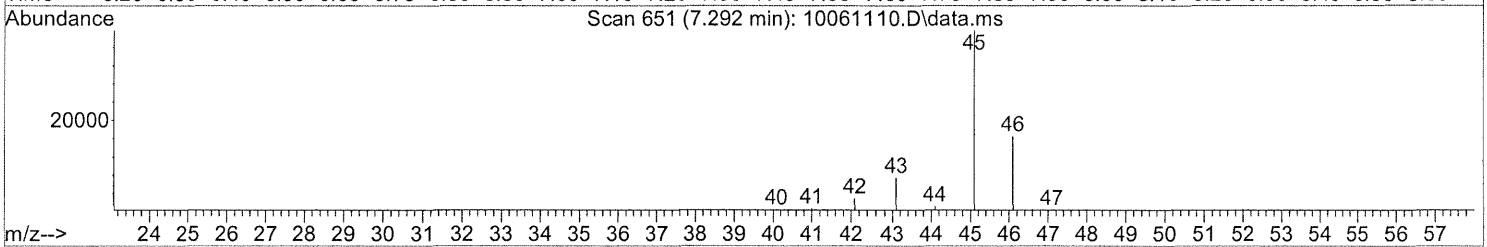
Ion	Exp%	Act%
45.00	100	100
46.10	40.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

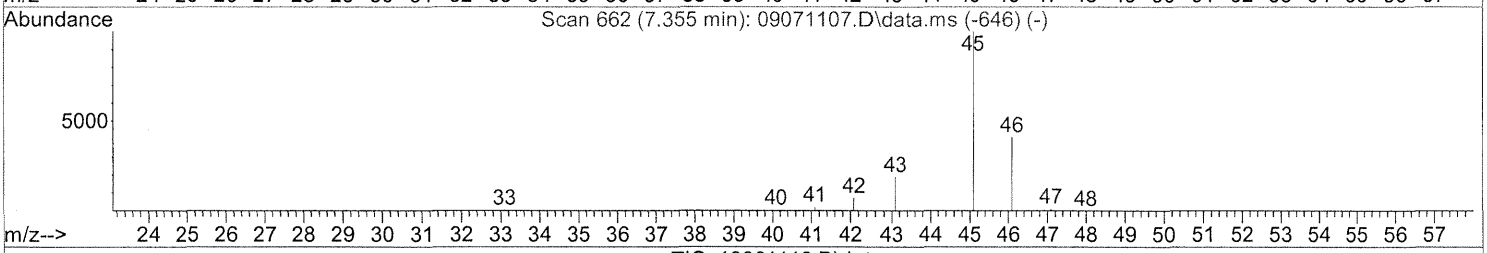
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061110.D\data.ms

(10) Ethanol (T)

7.292min (-0.143) 7.31ng m

response 98404

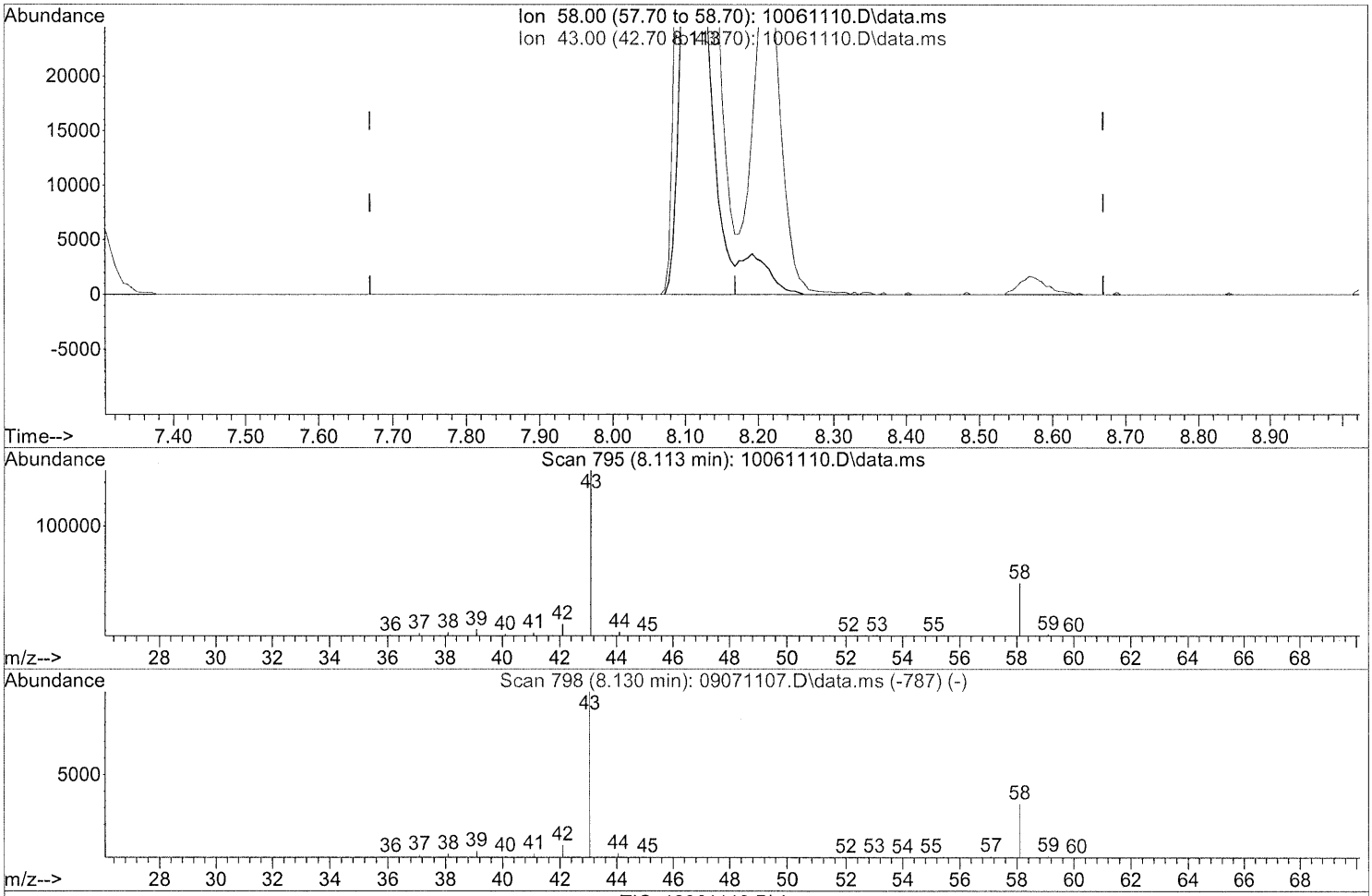
Ion	Exp%	Act%
45.00	100	100
46.10	40.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SP
EM 10/7/11
10/7/11

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061110.D\data.ms

(13) Acetone (T)

8.113min (-0.057) 9.96ng

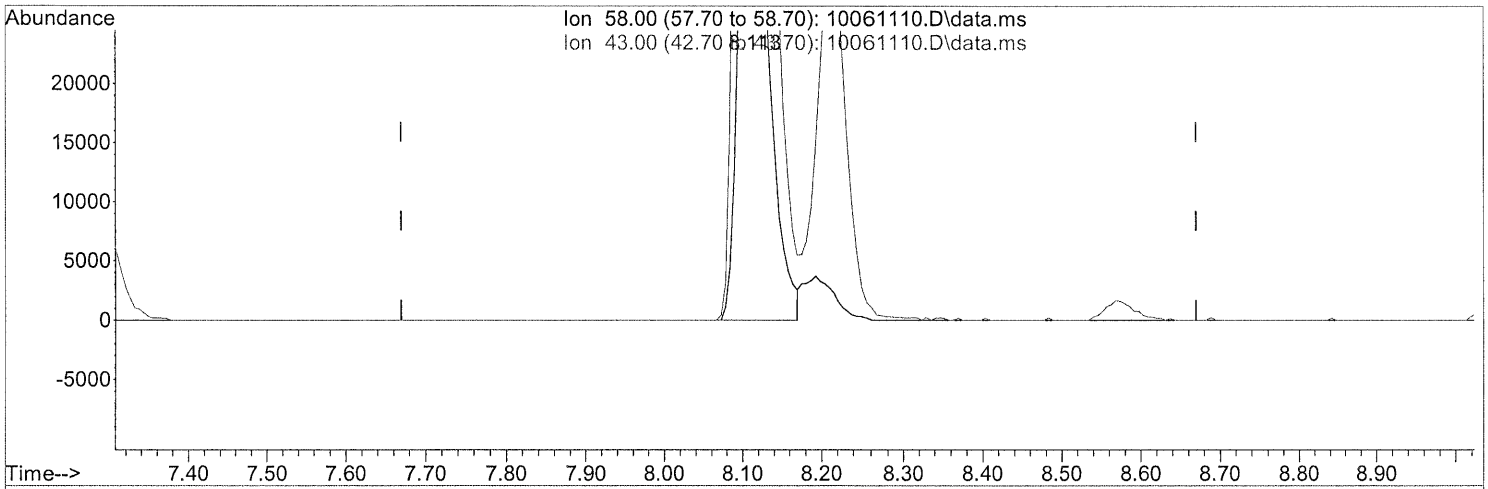
response 128214

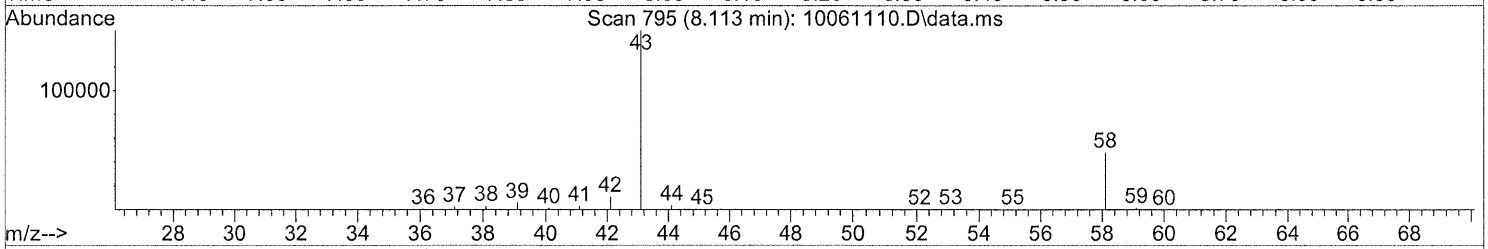
Ion	Exp%	Act%
58.00	100	100
43.00	313.80	285.95
0.00	0.00	0.00
0.00	0.00	0.00

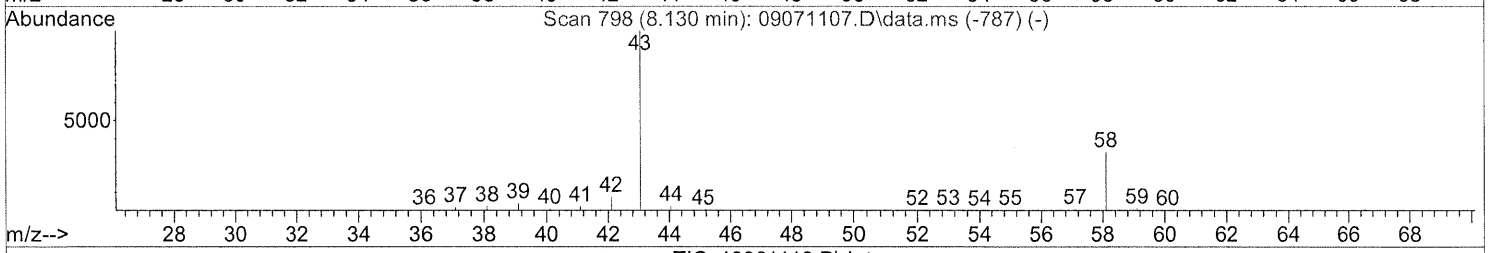
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061110.D\data.ms

(13) Acetone (T)

8.113min (-0.057) 9.18ng m

response 118207

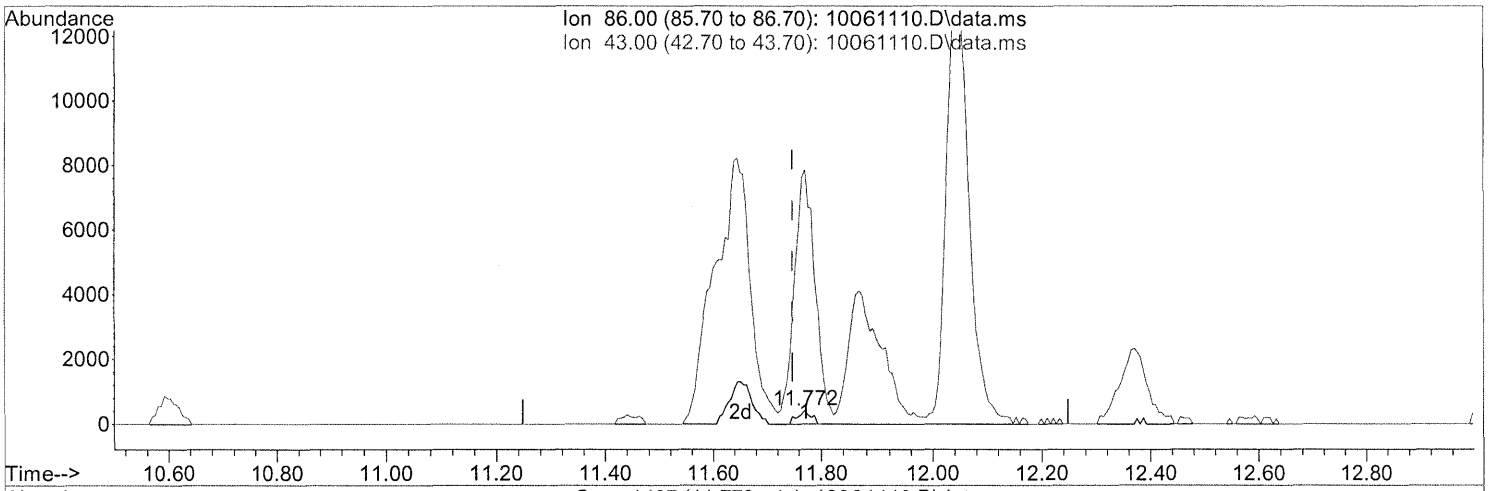
Ion	Exp%	Act%
58.00	100	100
43.00	313.80	310.15
0.00	0.00	0.00
0.00	0.00	0.00

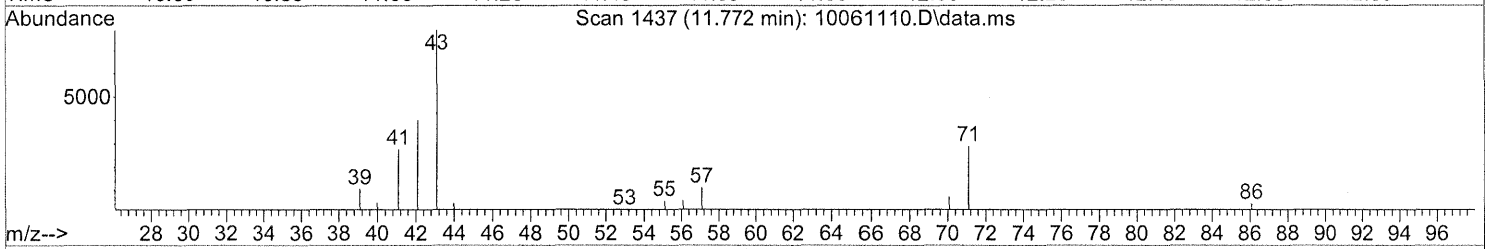
IPC
10/7/11
10/7/11

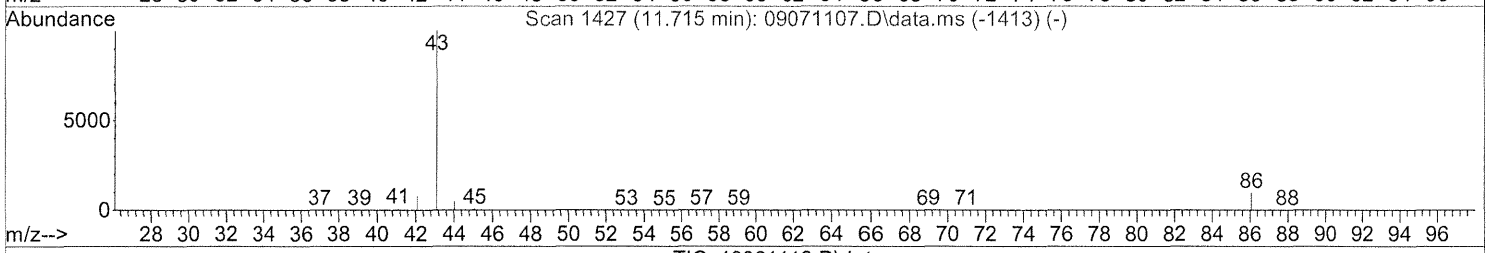
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061110.D\data.ms

(26) Vinyl Acetate (T)

11.772min (+0.023) 0.16ng

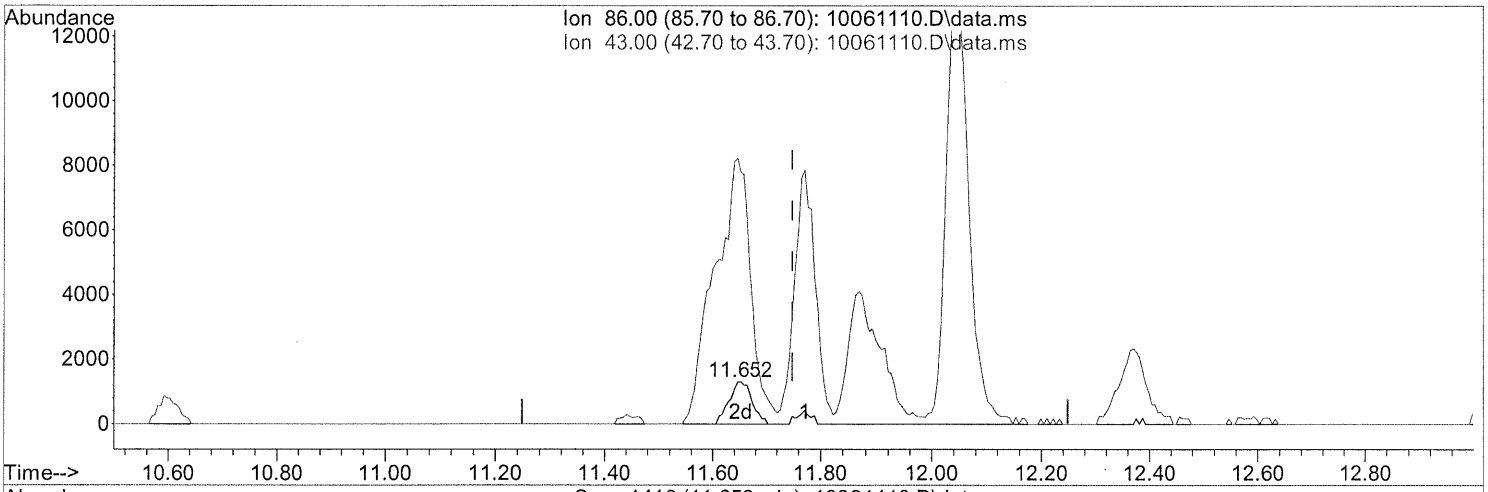
response 710

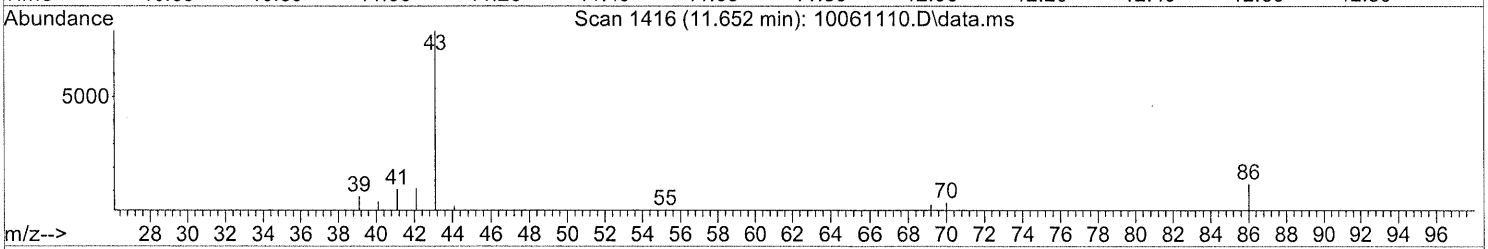
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	2929.86#
0.00	0.00	0.00
0.00	0.00	0.00

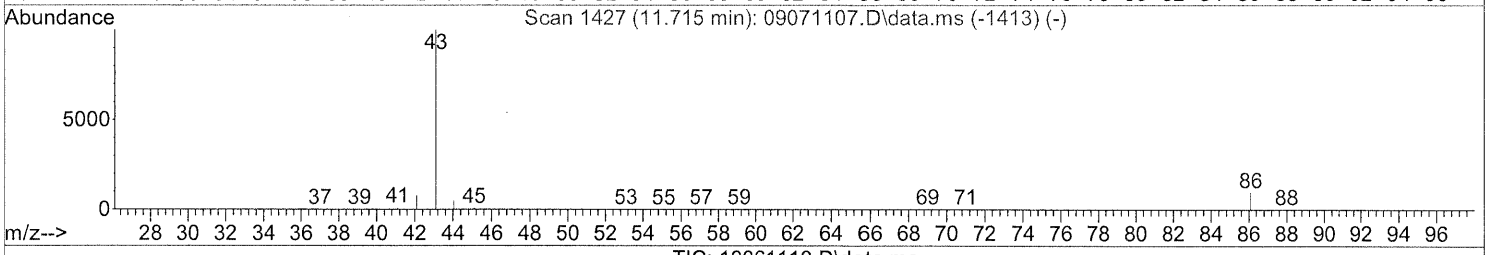
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 15:58
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061110.D\data.ms

(26) Vinyl Acetate (T)

11.652min (-0.097) 0.85ng m

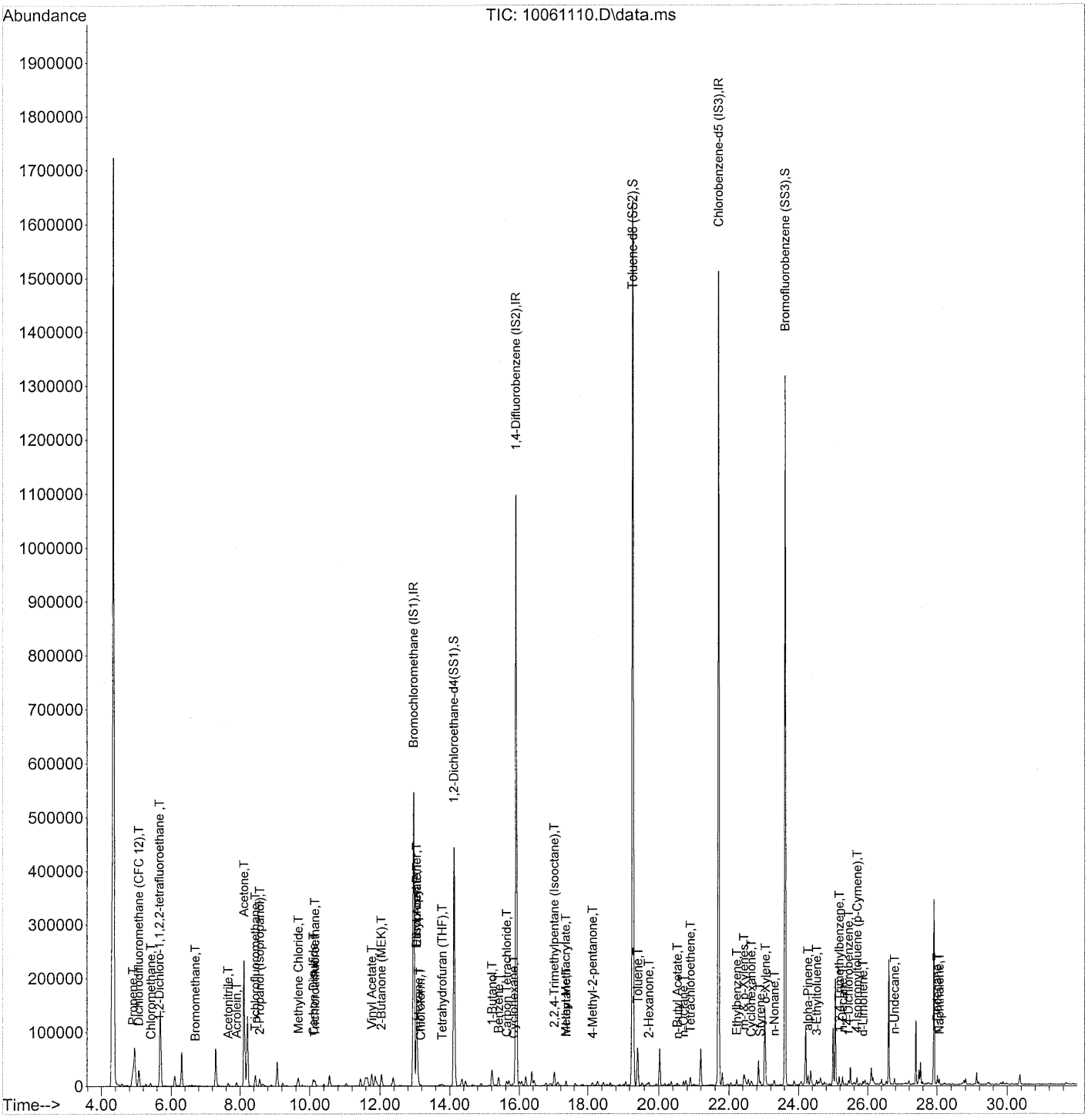
response 3829

Ion	Exp%	Act%
86.00	100	100
43.00	845.70	543.28#
0.00	0.00	0.00
0.00	0.00	0.00

WP
Em 10/7/11
10/7/11

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 3:58 pm
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 3:58 pm
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	290676	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1309657	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	623402	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	428036	24.638	ng		-0.03
Spiked Amount 25.000			Recovery = 98.56%				
57) Toluene-d8 (SS2)	19.29	98	1451614	25.055	ng		-0.02
Spiked Amount 25.000			Recovery = 100.20%				
73) Bromofluorobenzene (SS3)	23.62	174	515567	25.223	ng		-0.01
Spiked Amount 25.000			Recovery = 100.88%				
Target Compounds							Qvalue
2) Propene	4.90	42	20477	0.879	ng	#	1
3) Dichlorodifluoromethan...	5.07	85	46310	1.610	ng		99
4) Chloromethane	5.42	50	6127	0.254	ng		100
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	1109	0.070	ng	#	43
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.19	54	475	N.D.			
8) Bromomethane	6.70	94	796	0.060	ng		94
9) Chloroethane	7.05	64	257	N.D.			
10) Ethanol	7.47	45	389	N.D.			
11) Acetonitrile	7.66	41	6017	0.193	ng		95
12) Acrolein	7.90	56	7751	0.762	ng		99
13) Acetone	8.11	58	128214	9.960	ng		86
14) Trichlorofluoromethane	8.44	101	22336	0.864	ng		98
15) 2-Propanol (Isopropanol)	8.57	45	22777	0.629	ng		95
16) Acrylonitrile	8.91	53	765	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.58	59	1407	N.D.			
19) Methylene Chloride	9.67	84	8145	0.510	ng		86
20) 3-Chloro-1-propene (Al...	9.79	41	432	N.D.			
21) Trichlorotrifluoroethane	10.15	151	5028	0.374	ng		94
22) Carbon Disulfide	10.11	76	24493	0.442	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	11.59	73	719	N.D.			
26) Vinyl Acetate	11.77	86	710	0.157	ng	#	1
27) 2-Butanone (MEK)	12.05	72	9180	0.827	ng	#	52
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.05	87	838	0.061	ng	#	1
30) Ethyl Acetate	13.05	61	39311	6.534	ng		80
31) n-Hexane	13.11	57	8470	0.273	ng		96

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 3:58 pm
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.17	83	2301	0.098 ng		98
34) Tetrahydrofuran (THF)	13.78	72	1007	0.098 ng	#	53
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.30	62	643	N.D.		
38) 1,1,1-Trichloroethane	14.71	97	337	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.21	56	24542	1.287 ng	#	67
41) Benzene	15.40	78	19843	0.322 ng		99
42) Carbon Tetrachloride	15.63	117	7087	0.372 ng		100
43) Cyclohexane	15.83	84	3002	0.112 ng		92
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.89	83	363	N.D.		
47) Trichloroethene	16.92	130	546	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	17.02	57	29379	0.387 ng		100
50) Methyl Methacrylate	17.36	100	789	0.108 ng	#	1
51) n-Heptane	17.37	71	2788	0.153 ng		93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.14	58	1907	0.122 ng	#	70
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.42	91	66063	0.986 ng		100
59) 2-Hexanone	19.72	43	5927	0.159 ng		80
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.53	43	3711	0.085 ng		98
63) n-Octane	20.70	57	1423	0.094 ng	#	76
64) Tetrachloroethene	20.90	166	6689	0.320 ng		96
65) Chlorobenzene	21.76	112	114	N.D.		
66) Ethylbenzene	22.23	91	10243	0.140 ng		99
67) m- & p-Xylenes	22.44	91	20813	0.357 ng		93
68) Bromoform	22.56	173	189	N.D.		
69) Styrene	22.90	104	5279	0.116 ng		95
70) o-Xylene	23.05	91	8142	0.132 ng		95
71) n-Nonane	23.31	43	5000	0.125 ng		78
72) 1,1,2,2-Tetrachloroethane	23.04	83	1463	N.D.		
74) Cumene	23.79	105	713	N.D.		
75) alpha-Pinene	24.28	93	8354	0.211 ng		99
76) n-Propylbenzene	24.41	91	3964	N.D.		
77) 3-Ethyltoluene	24.53	105	6459	0.083 ng		93
78) 4-Ethyltoluene	24.58	105	3681	N.D.		
79) 1,3,5-Trimethylbenzene	24.67	105	2619	N.D.		

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061110.D
Acq On : 6 Oct 2011 3:58 pm
Operator : EM/CR
Sample : P1103662-004 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

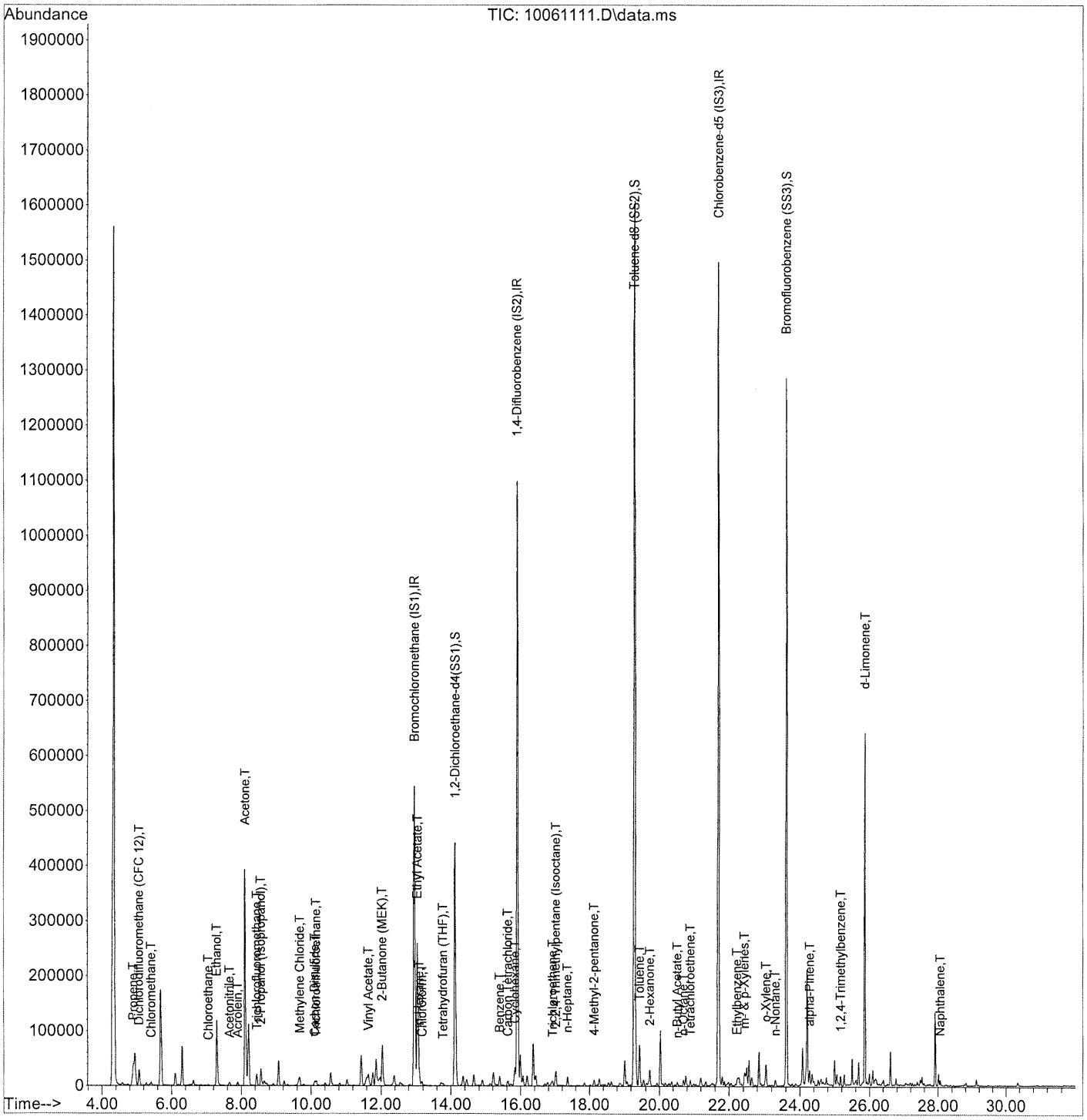
Quant Time: Oct 07 08:45:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.86	118	467	N.D.	
81) 2-Ethyltoluene	24.92	105	2762	N.D.	
82) 1,2,4-Trimethylbenzene	25.18	105	9148	0.141 ng	96
83) n-Decane	25.27	57	5847	0.147 ng	95
84) Benzyl Chloride	25.34	91	732	N.D.	
85) 1,3-Dichlorobenzene	25.37	146	414	N.D.	
86) 1,4-Dichlorobenzene	25.45	146	3781	0.095 ng	89
87) sec-Butylbenzene	25.50	105	701	N.D.	
88) 4-Isopropyltoluene (p-...	25.69	119	5837	0.068 ng	87
89) 1,2,3-Trimethylbenzene	25.69	105	2683	N.D.	
90) 1,2-Dichlorobenzene	25.86	146	298	N.D.	
91) d-Limonene	25.86	68	2028	0.079 ng	90
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	26.77	57	3855	0.099 ng	93
94) 1,2,4-Trichlorobenzene	27.91	180	792	N.D.	
95) Naphthalene	28.07	128	8872	0.093 ng	98
96) n-Dodecane	28.01	57	5879	0.164 ng	93
97) Hexachlorobutadiene	0.00	225	0	N.D.	
98) Cyclohexanone	22.64	55	4950	0.202 ng	88
99) tert-Butylbenzene	25.17	119	1257	N.D.	
100) n-Butylbenzene	26.24	91	107	N.D.	

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

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 16:41
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:42:55 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 16:41
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:42:55 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	286771	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1290362	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	615766	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	424409	24.761	ng		-0.02
Spiked Amount 25.000			Recovery = 99.04%				
57) Toluene-d8 (SS2)	19.29	98	1429339	24.976	ng		-0.02
Spiked Amount 25.000			Recovery = 99.92%				
73) Bromofluorobenzene (SS3)	23.62	174	508857	25.204	ng		-0.01
Spiked Amount 25.000			Recovery = 100.80%				
Target Compounds							Qvalue
2) Propene	4.90	42	16456m	0.716	ng		
3) Dichlorodifluoromethan...	5.07	85	42564	1.500	ng		98
4) Chloromethane	5.42	50	6107	0.257	ng		98
9) Chloroethane	7.05	64	1267	0.099	ng		97
10) Ethanol	7.30	45	168268	12.676	ng		99
11) Acetonitrile	7.66	41	7015	0.228	ng		90
12) Acrolein	7.90	56	7389	0.736	ng		96
13) Acetone	8.11	58	198210m	15.606	ng		
14) Trichlorofluoromethane	8.45	101	23204	0.909	ng		99
15) 2-Propanol (Isopropanol)	8.56	45	53102	1.487	ng		93
19) Methylene Chloride	9.68	84	7513	0.477	ng		85
21) Trichlorotrifluoroethane	10.15	151	4617	0.348	ng		91
22) Carbon Disulfide	10.11	76	15250	0.279	ng		99
26) Vinyl Acetate	11.65	86	6135m	1.373	ng		
27) 2-Butanone (MEK)	12.03	72	30244	2.762	ng	#	47
30) Ethyl Acetate	13.05	61	56470	9.513	ng		83
31) n-Hexane	13.10	57	12073	0.394	ng	#	94
32) Chloroform	13.17	83	7798	0.337	ng		95
34) Tetrahydrofuran (THF)	13.78	72	1265	0.124	ng	#	49
41) Benzene	15.40	78	20601	0.340	ng		99
42) Carbon Tetrachloride	15.63	117	7255	0.386	ng		98
43) Cyclohexane	15.84	84	19677	0.747	ng		92
47) Trichloroethene	16.92	130	1706	0.097	ng		99
49) 2,2,4-Trimethylpentane...	17.02	57	30275	0.405	ng		97
51) n-Heptane	17.36	71	5164	0.287	ng		91
53) 4-Methyl-2-pentanone	18.14	58	3053	0.198	ng	#	63
58) Toluene	19.43	91	68362	1.033	ng		99
59) 2-Hexanone	19.72	43	29216	0.793	ng		82
62) n-Butyl Acetate	20.52	43	6444	0.149	ng		100
63) n-Octane	20.70	57	1935	0.129	ng	#	74

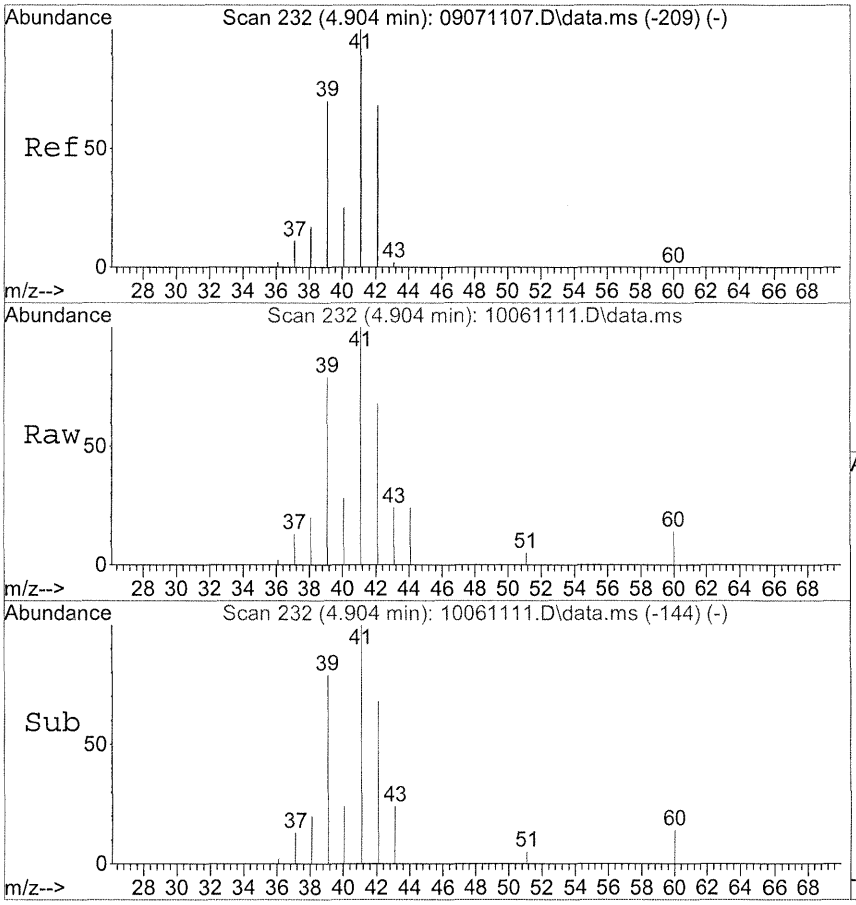
EM 10/7/11

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 16:41
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:42:55 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
64) Tetrachloroethene	20.90	166	4290	0.207	ng		98
66) Ethylbenzene	22.23	91	10986	0.152	ng		99
67) m- & p-Xylenes	22.44	91	24112	0.418	ng		93
70) o-Xylene	23.05	91	9282	0.153	ng		100
71) n-Nonane	23.31	43	6612	0.167	ng	#	74
75) alpha-Pinene	24.28	93	13238	0.338	ng		92
82) 1,2,4-Trimethylbenzene	25.18	105	8967	0.140	ng		99
91) d-Limonene	25.86	68	171810	6.766	ng		96
95) Naphthalene	28.07	128	9045	0.096	ng		92

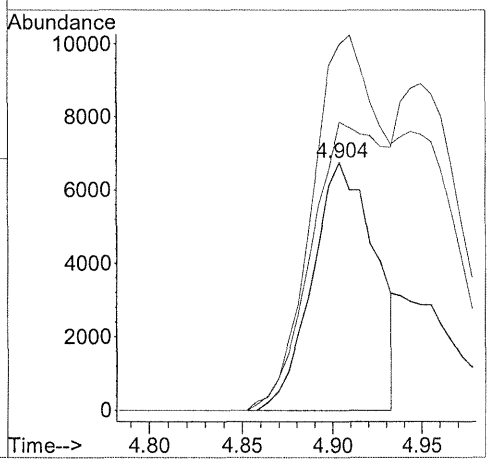
(#) = qualifier out of range (m) = manual integration (+) = signals summed

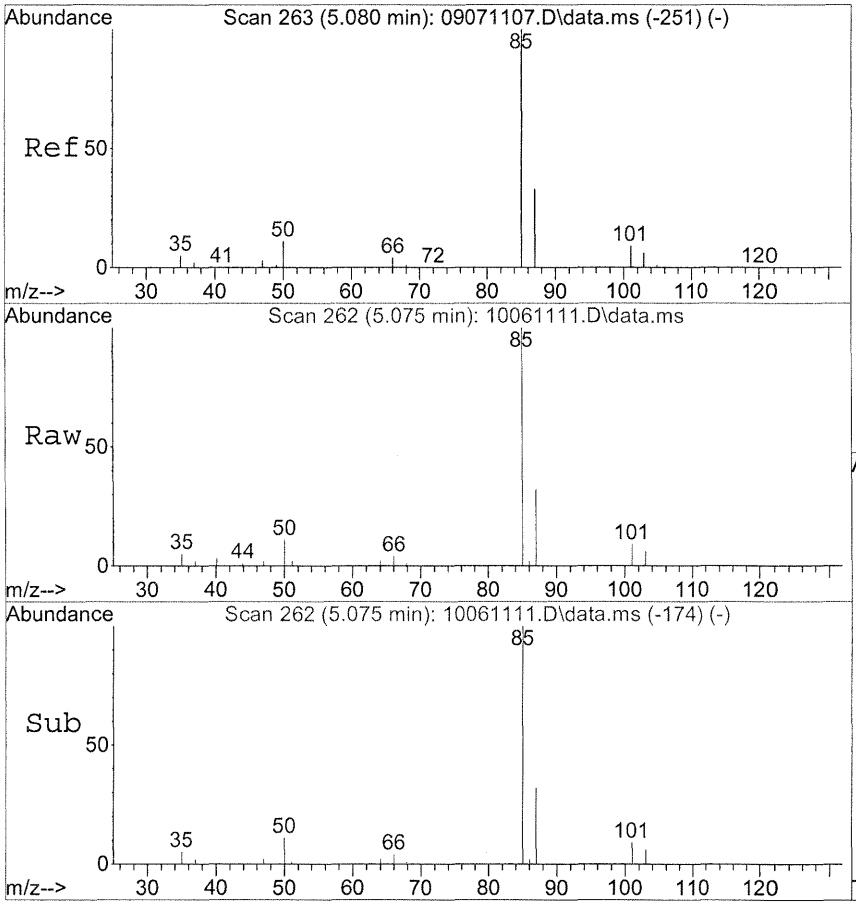


#2
Propene
Concen: 0.72 ng m
RT: 4.90 min Scan# 232
Delta R.T. -0.000 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 42 Resp: 16456

Ion	Ratio	Lower	Upper
42	100		
39	0.0	88.8	128.8#
41	281.2	126.1	166.1#

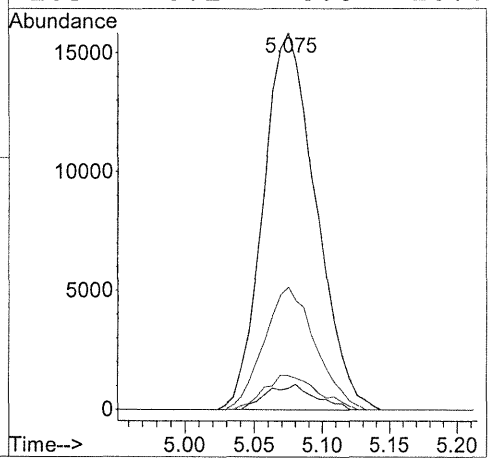


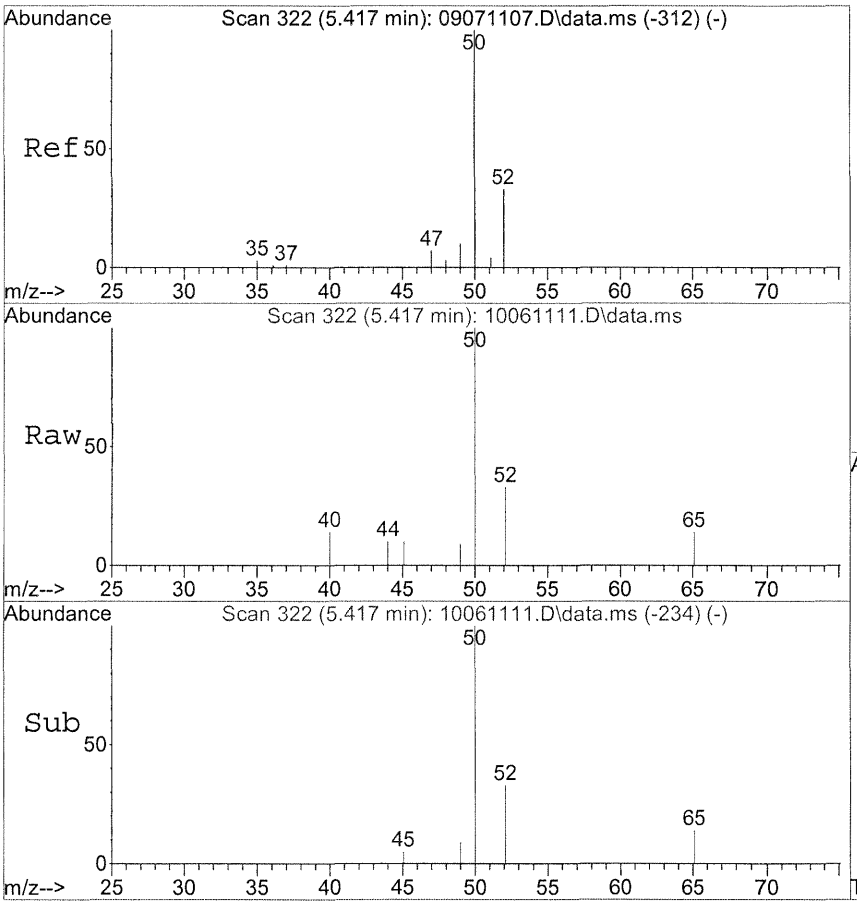


#3
Dichlorodifluoromethane (CFC
Concen: 1.50 ng
RT: 5.07 min Scan# 262
Delta R.T. -0.000 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 85 Resp: 42564

Ion	Ratio	Lower	Upper
85	100		
87	31.6	13.0	53.0
101	9.2	0.0	29.1
103	6.1	0.0	26.0

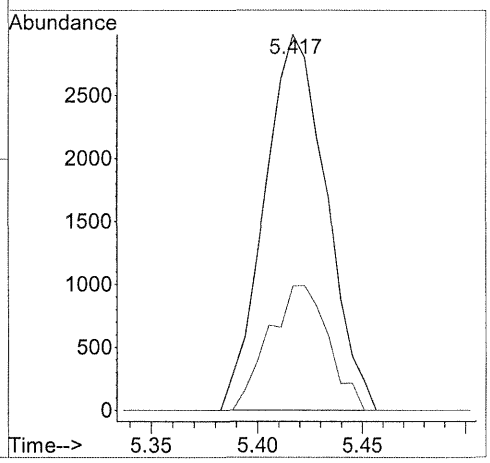


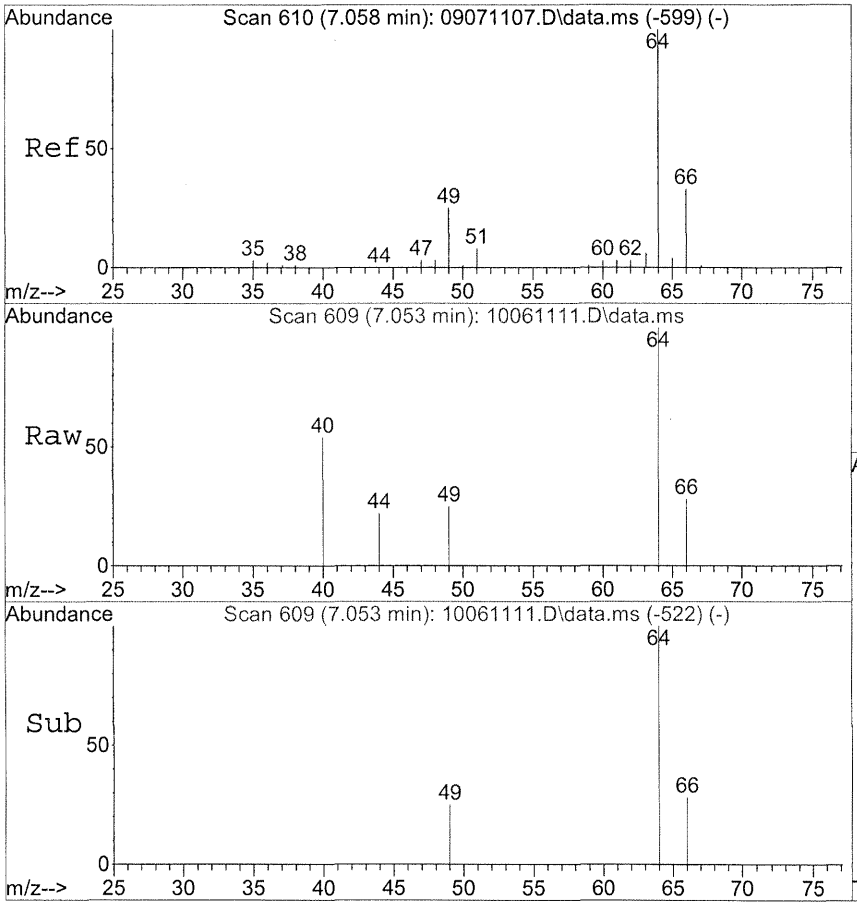


#4
Chloromethane
Concen: 0.26 ng
RT: 5.42 min Scan# 322
Delta R.T. -0.000 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 50 Resp: 6107

Ion	Ratio	Lower	Upper
50	100		
52	31.9	13.1	53.1

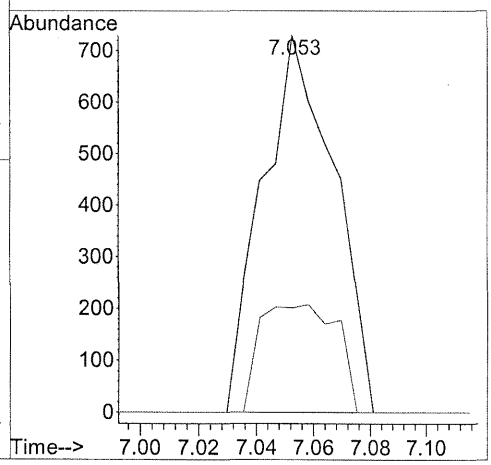


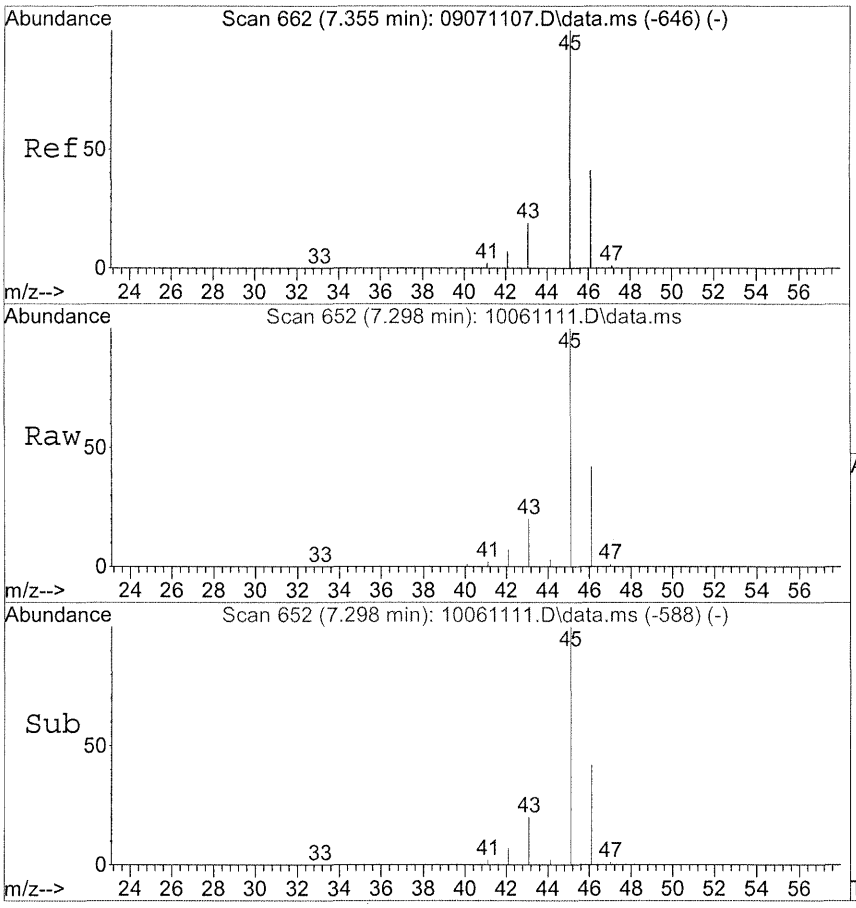


#9
Chloroethane
Concen: 0.10 ng
RT: 7.05 min Scan# 609
Delta R.T. -0.006 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 64 Resp: 1267

Ion	Ratio	Lower	Upper
64	100		
66	30.8	12.2	52.2

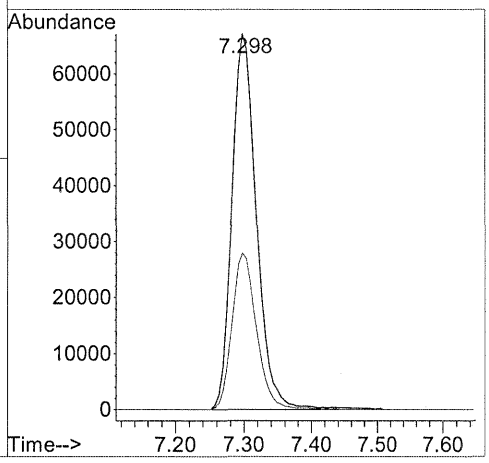


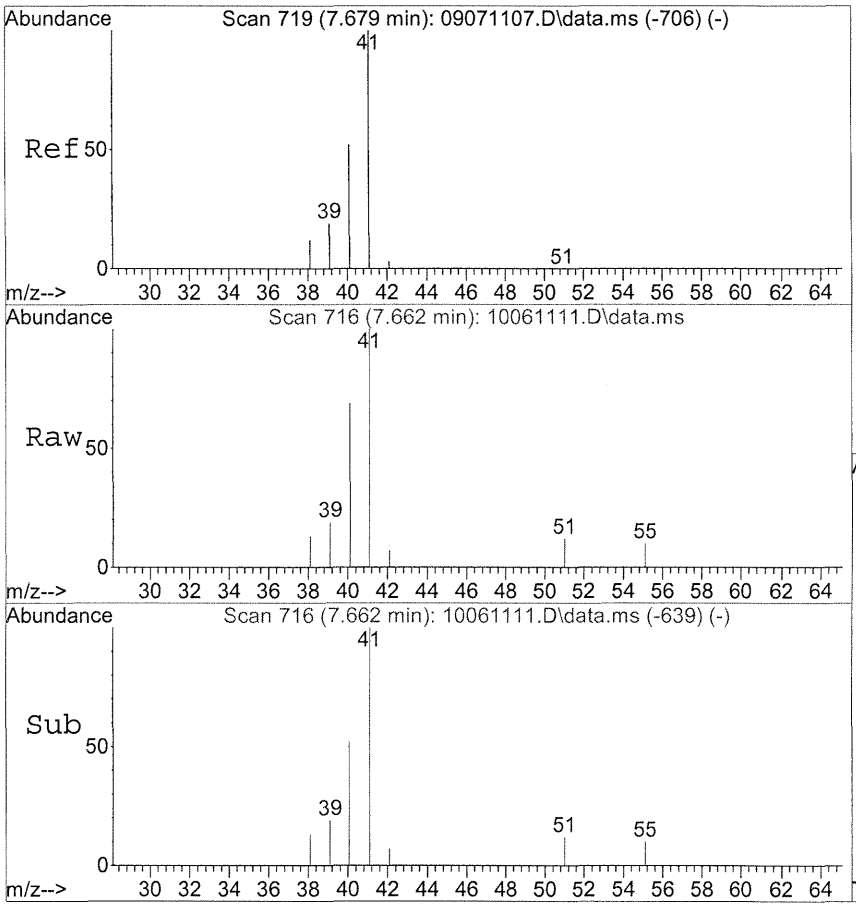


#10
Ethanol
Concen: 12.68 ng
RT: 7.30 min Scan# 652
Delta R.T. -0.137 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 45 Resp: 168268

Ion	Ratio	Lower	Upper
45	100		
46	41.3	20.7	60.7

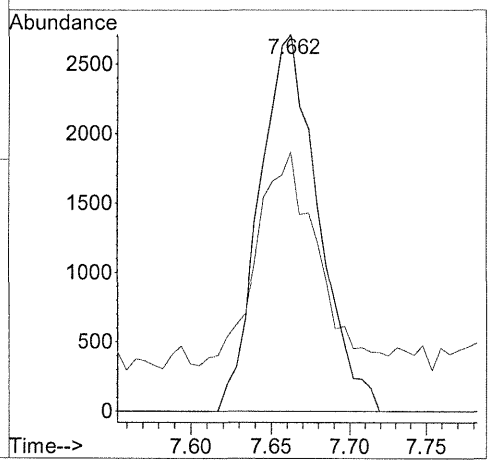


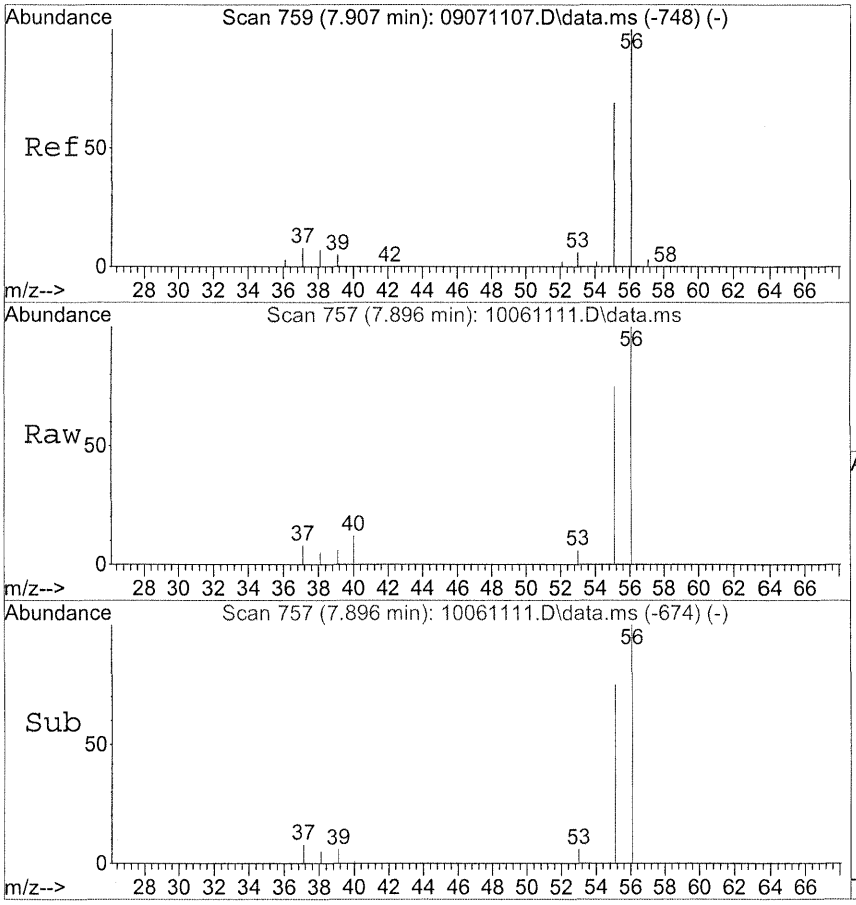


#11
Acetonitrile
Concen: 0.23 ng
RT: 7.66 min Scan# 716
Delta R.T. -0.063 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 41 Resp: 7015

Ion	Ratio	Lower	Upper
41	100		
40	58.2	31.5	71.5

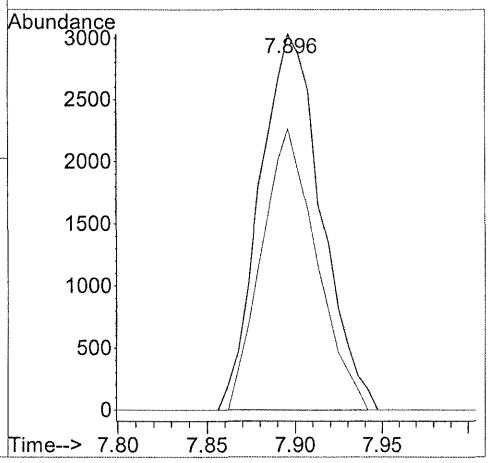


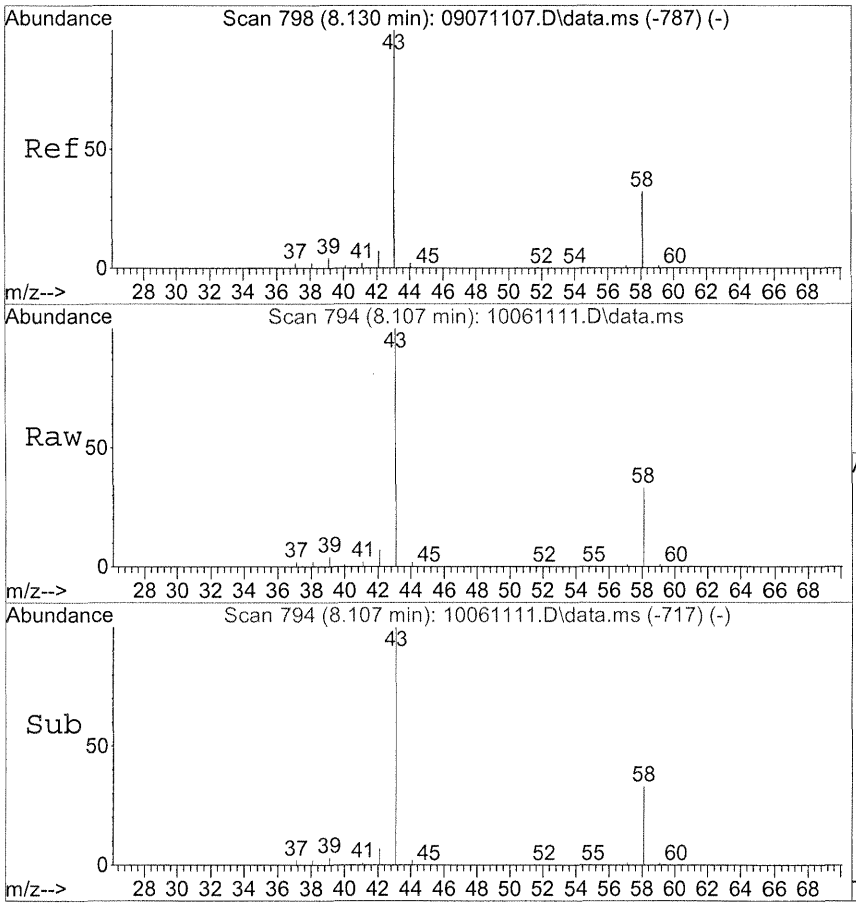


#12
Acrolein
Concen: 0.74 ng
RT: 7.90 min Scan# 757
Delta R.T. -0.029 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 56 Resp: 7389

Ion	Ratio	Lower	Upper
56	100		
55	66.7	50.1	90.1

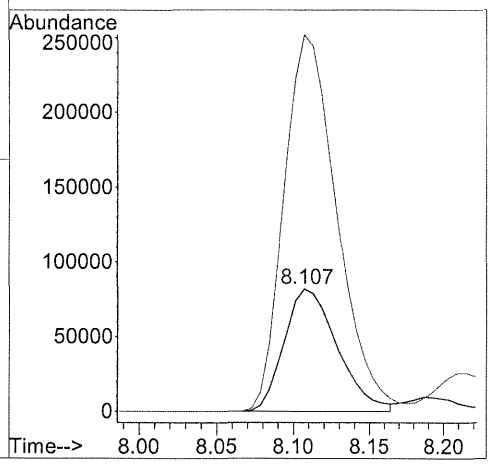


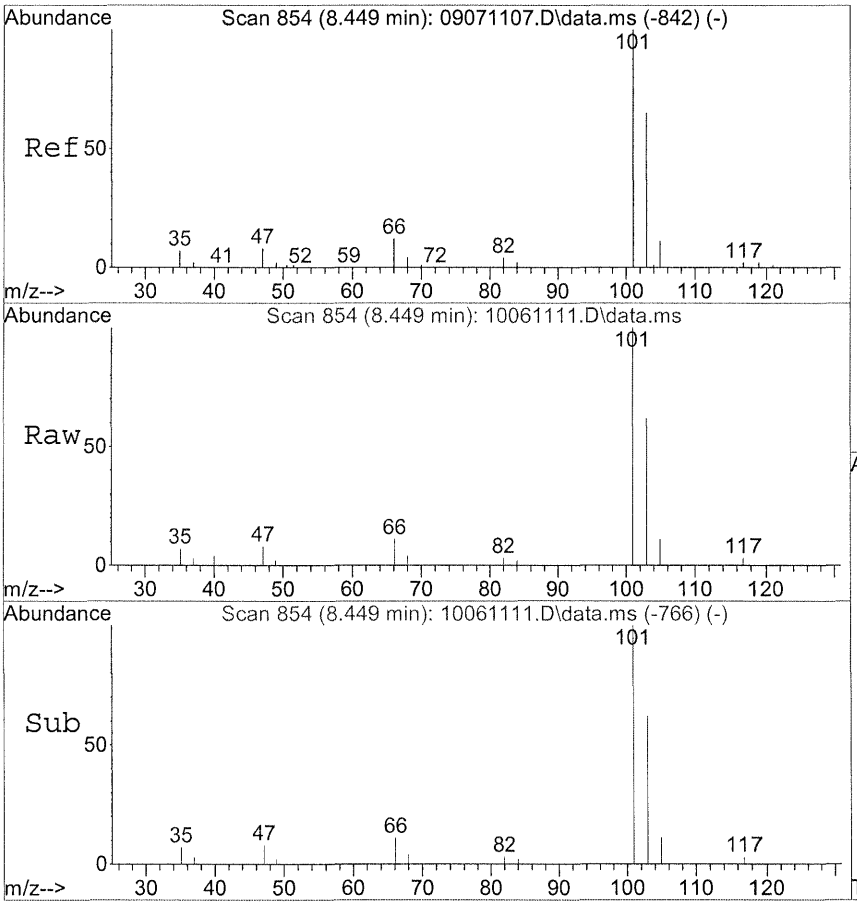


#13
Acetone
Concen: 15.61 ng m
RT: 8.11 min Scan# 794
Delta R.T. -0.063 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 58 Resp: 198210

Ion	Ratio	Lower	Upper
58	100		
43	0.0	283.8	343.8#

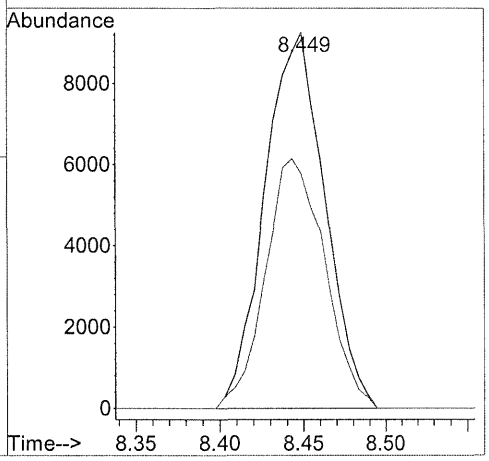


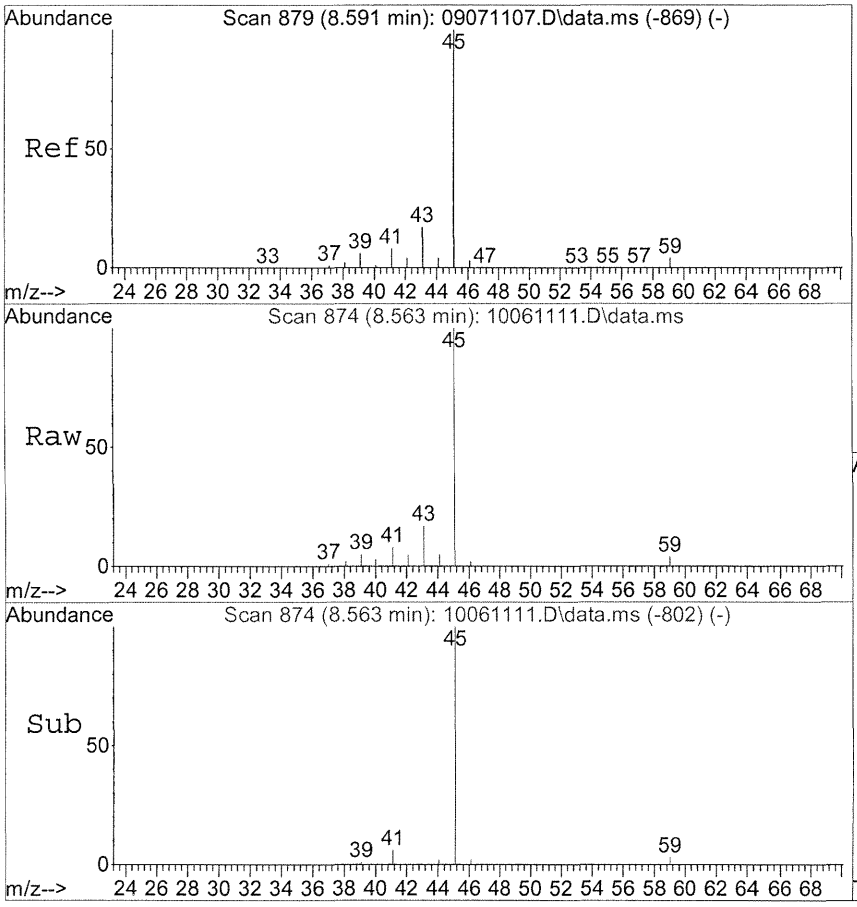


#14
Trichlorofluoromethane
Concen: 0.91 ng
RT: 8.45 min Scan# 854
Delta R.T. -0.000 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion:101 Resp: 23204

Ion	Ratio	Lower	Upper
101	100		
103	65.5	44.4	84.4

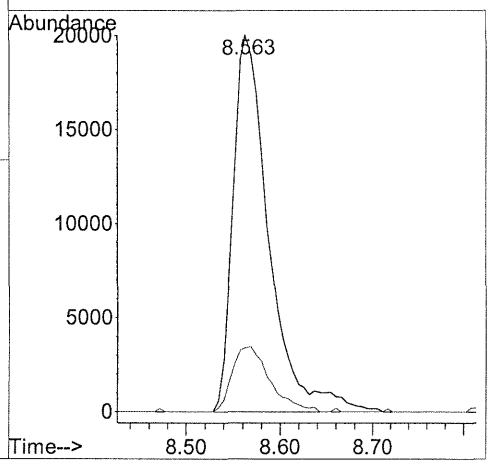


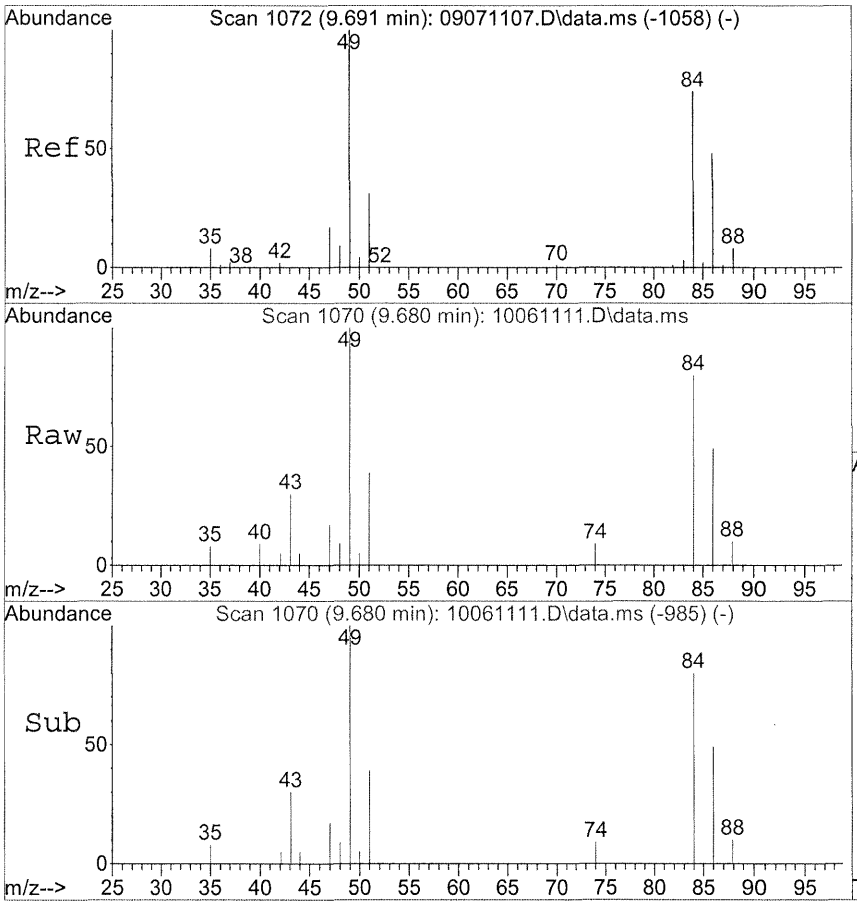


#15
2-Propanol (Isopropanol)
Concen: 1.49 ng
RT: 8.56 min Scan# 874
Delta R.T. -0.091 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 45 Resp: 53102

Ion	Ratio	Lower	Upper
45	100		
43	18.1	1.4	41.4

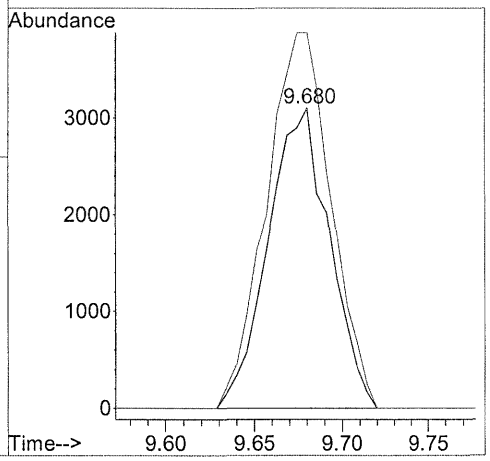


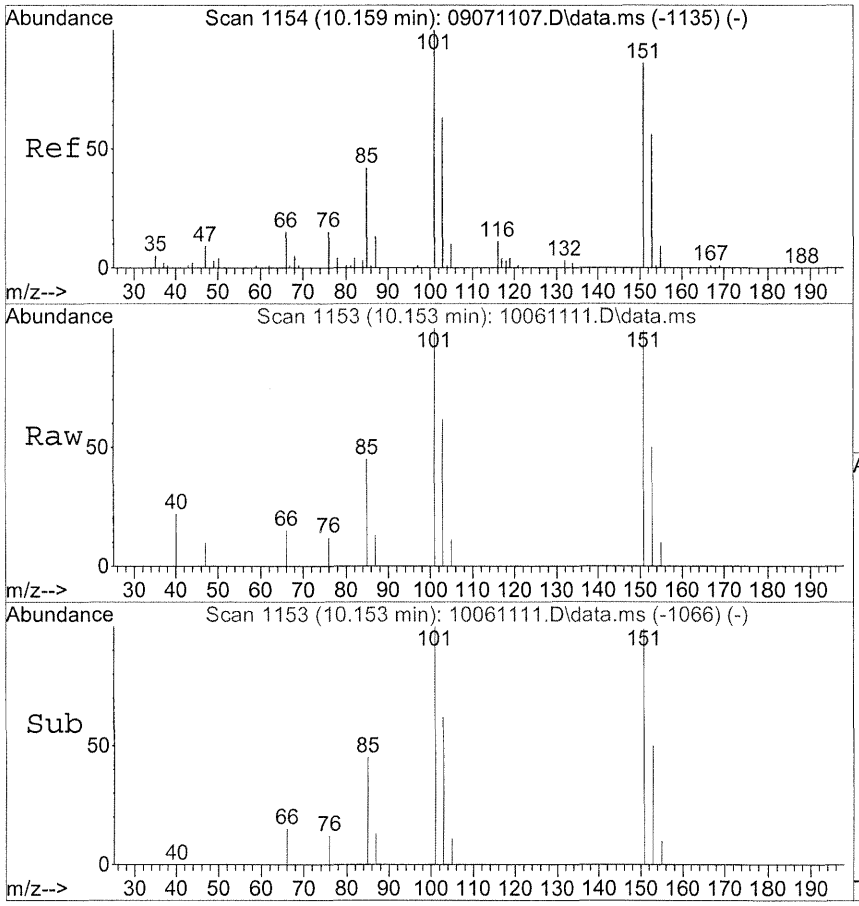


#19
Methylene Chloride
Concen: 0.48 ng
RT: 9.68 min Scan# 1070
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 84 Resp: 7513

Ion	Ratio	Lower	Upper
84	100		
49	132.2	90.4	140.4

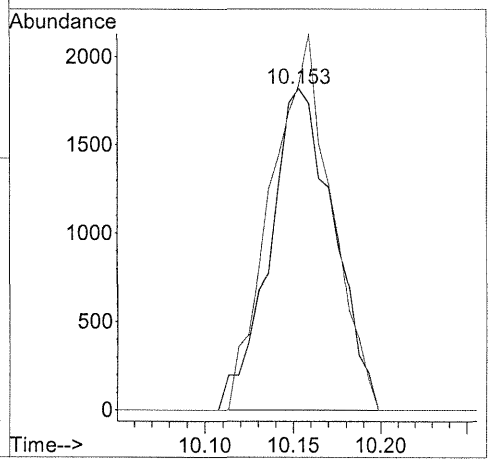


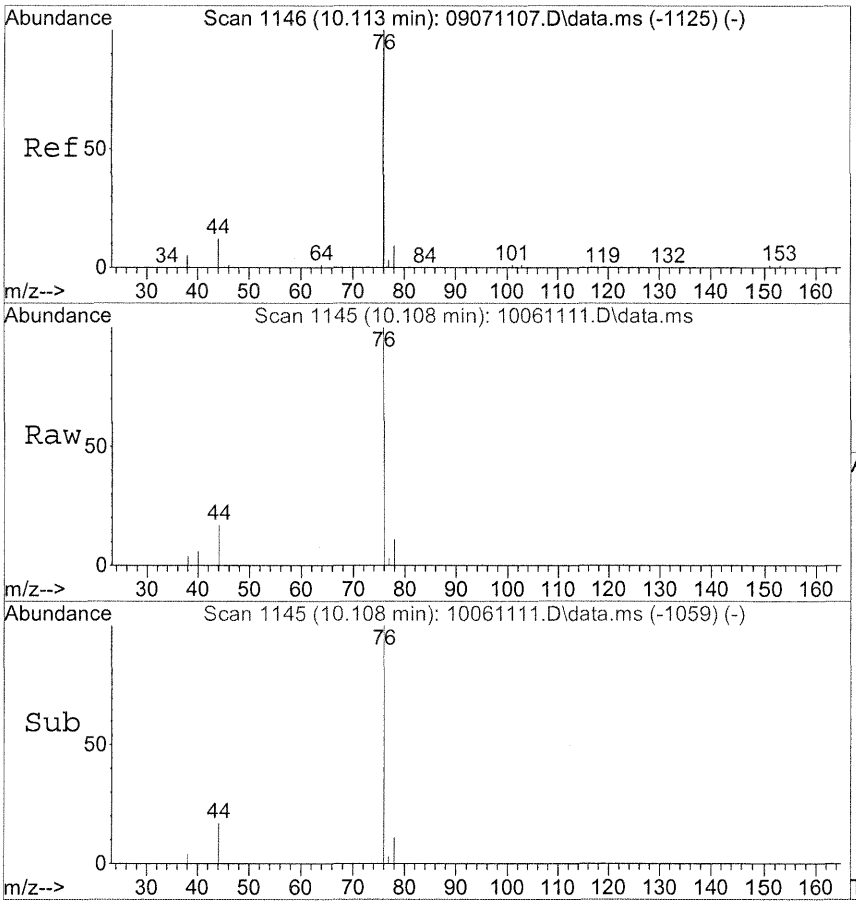


#21
Trichlorotrifluoroethane
Concen: 0.35 ng
RT: 10.15 min Scan# 1153
Delta R.T. -0.006 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion:151 Resp: 4617

Ion	Ratio	Lower	Upper
151	100		
101	109.6	99.7	139.7

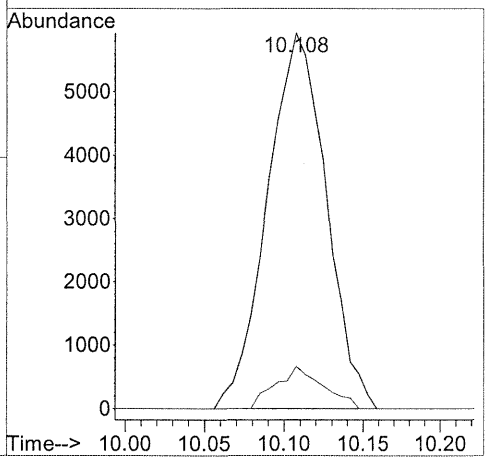


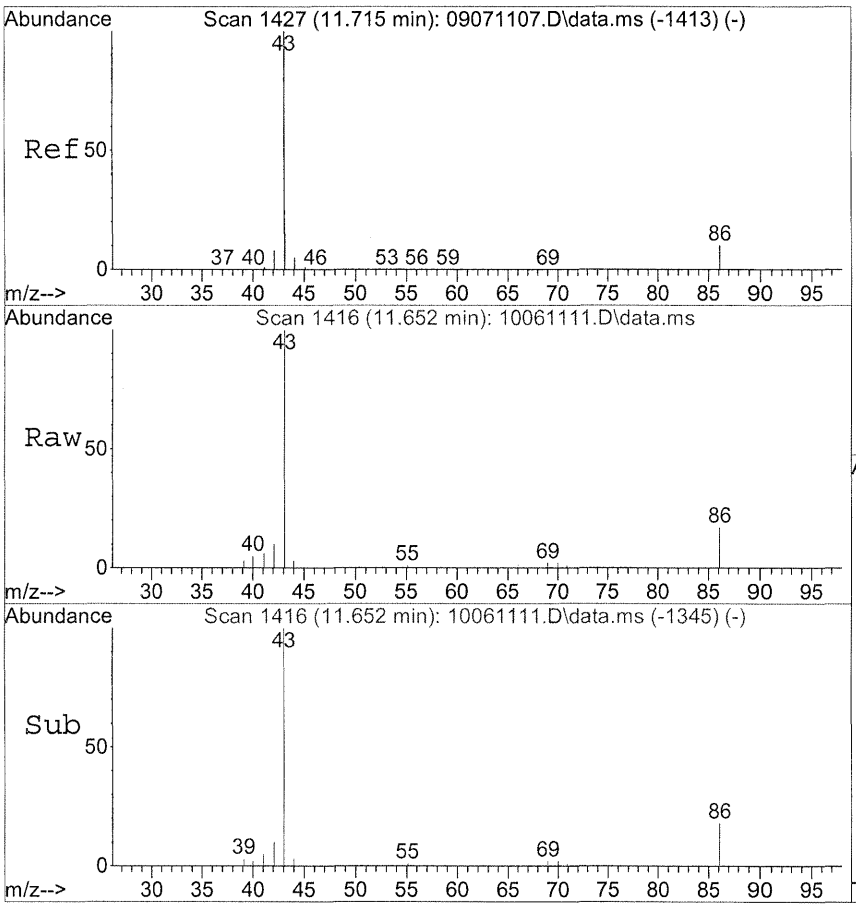


#22
Carbon Disulfide
Concen: 0.28 ng
RT: 10.11 min Scan# 1145
Delta R.T. -0.011 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 76 Resp: 15250

Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	29.4

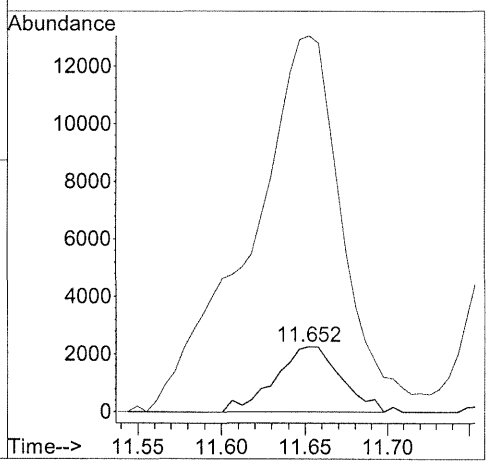


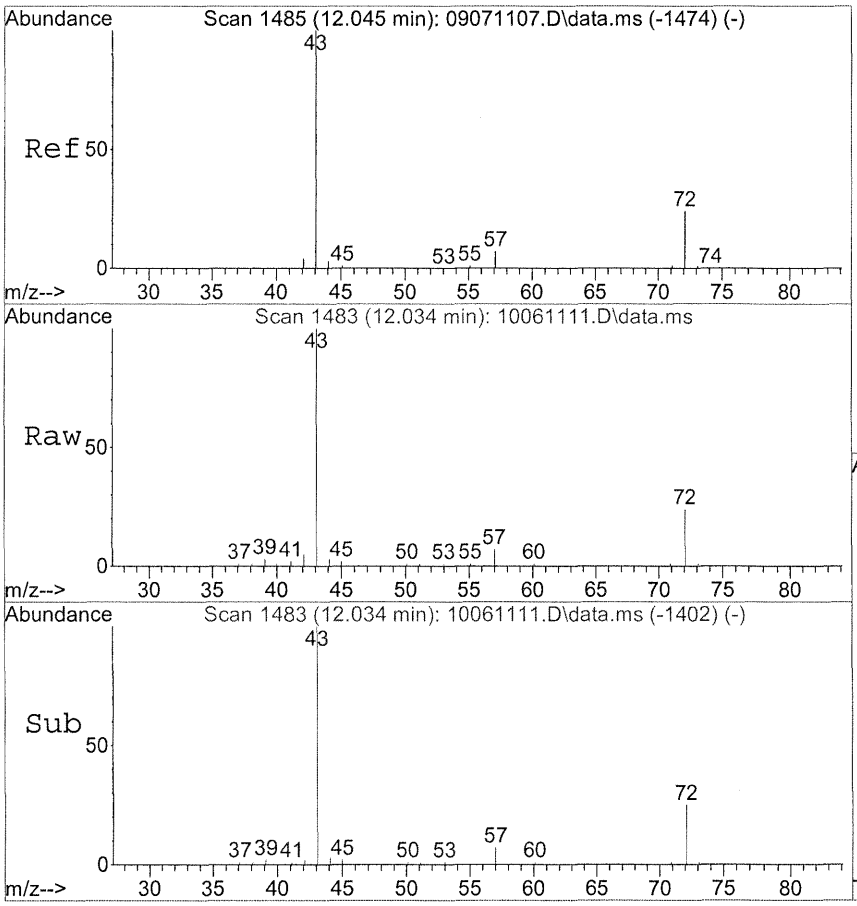


#26
Vinyl Acetate
Concen: 1.37 ng m
RT: 11.65 min Scan# 1416
Delta R.T. -0.097 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 86 Resp: 6135

Ion	Ratio	Lower	Upper
86	100		
43	344.5	825.7	865.7#

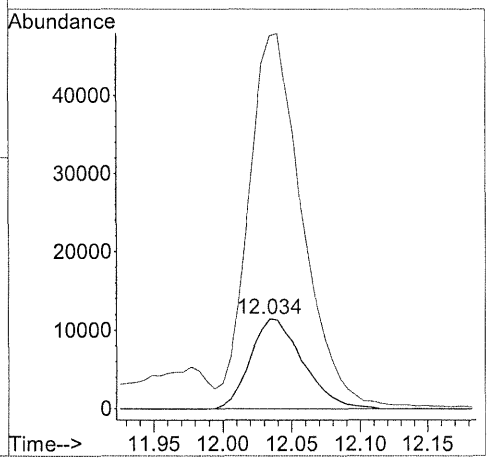


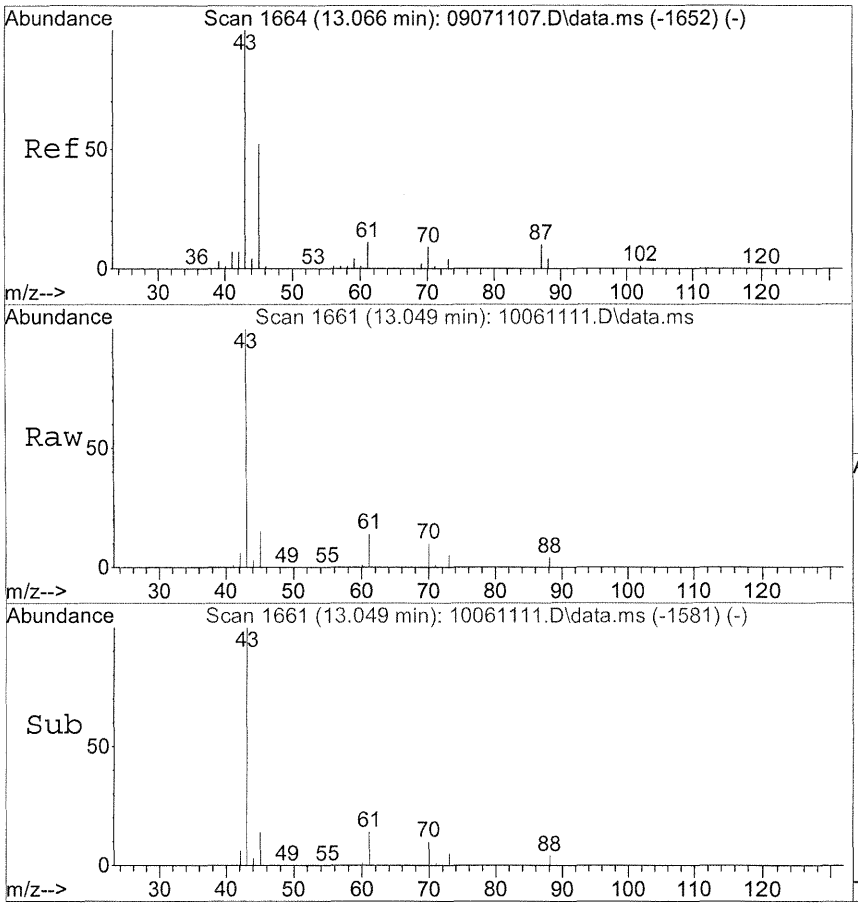


#27
2-Butanone (MEK)
Concen: 2.76 ng
RT: 12.03 min Scan# 1483
Delta R.T. -0.040 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 72 Resp: 30244

Ion	Ratio	Lower	Upper
72	100		
43	433.4	304.7	344.7#

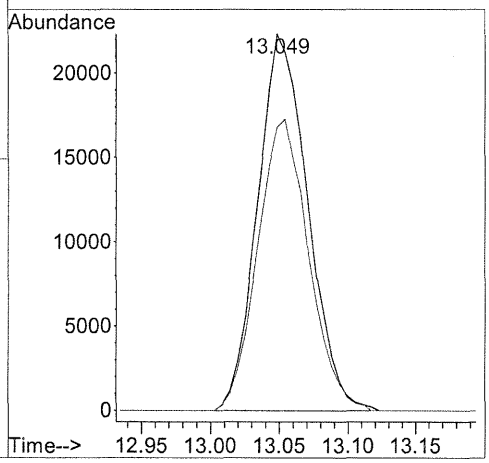


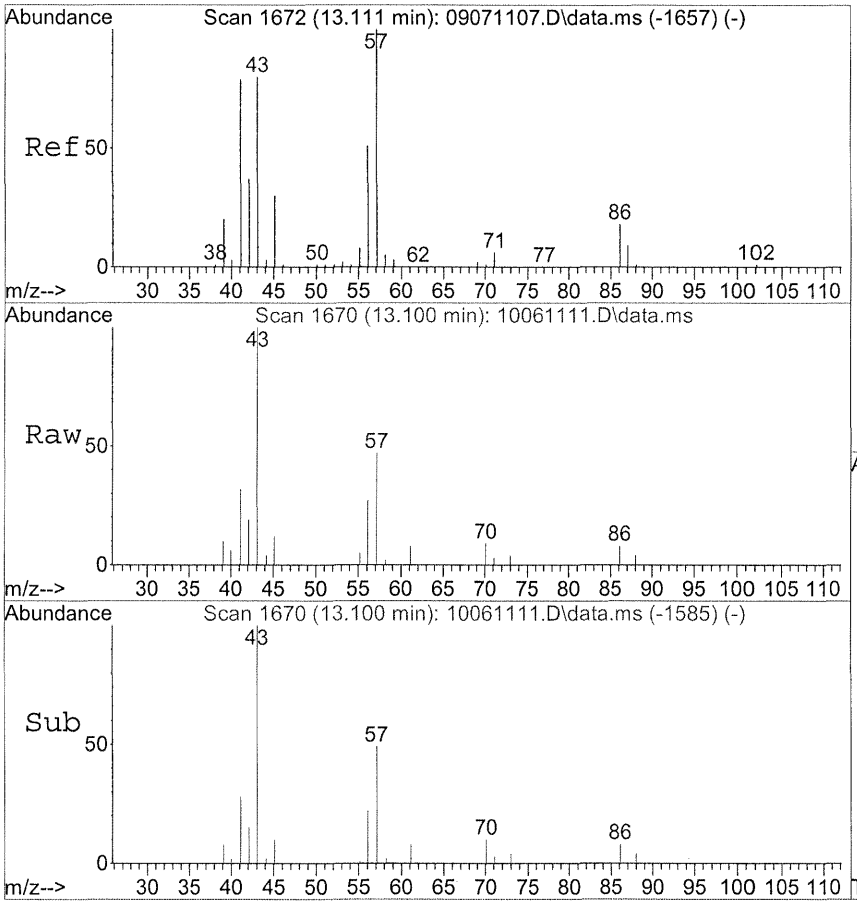


#30
Ethyl Acetate
Concen: 9.51 ng
RT: 13.05 min Scan# 1661
Delta R.T. -0.046 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 61 Resp: 56470

Ion	Ratio	Lower	Upper
61	100		
70	78.6	75.3	115.3

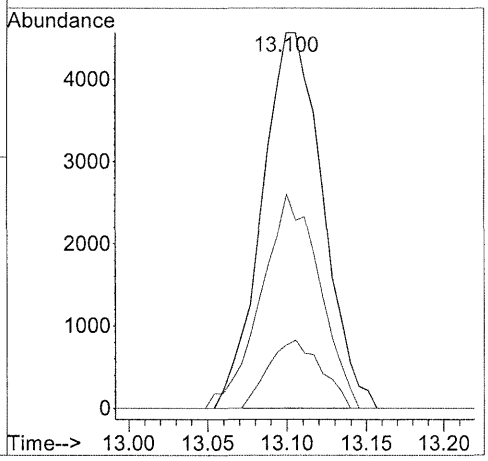


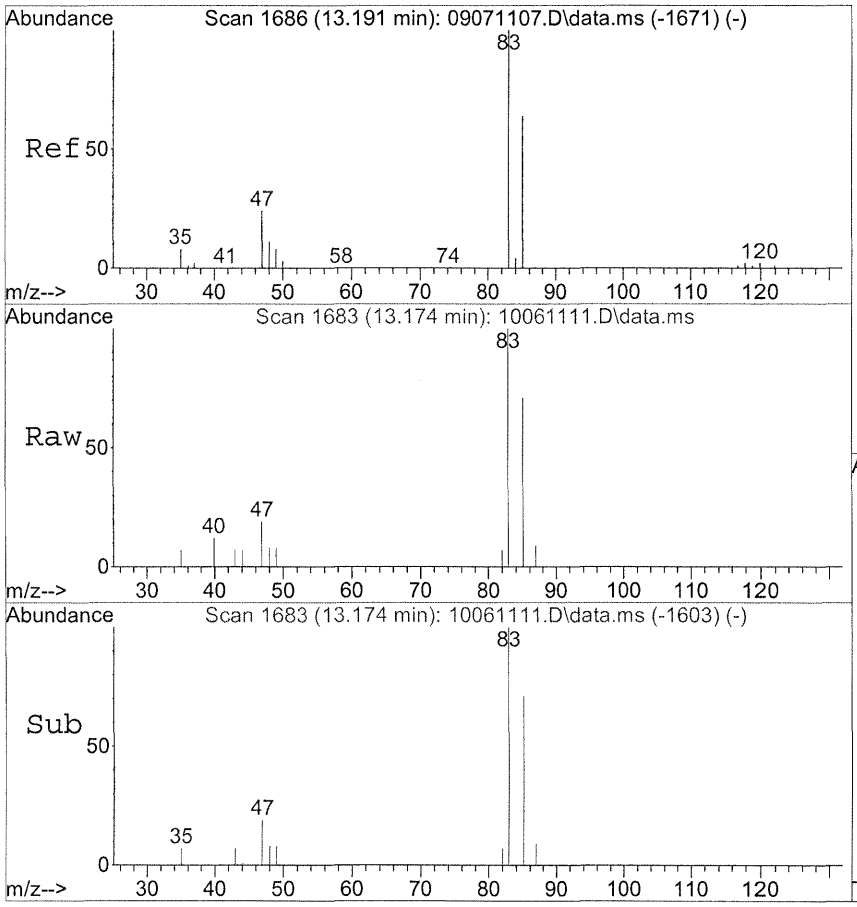


#31
n-Hexane
Concen: 0.39 ng
RT: 13.10 min Scan# 1670
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 57 Resp: 12073

Ion	Ratio	Lower	Upper
57	100		
56	54.8	41.8	62.8
86	15.6	17.0	25.4#

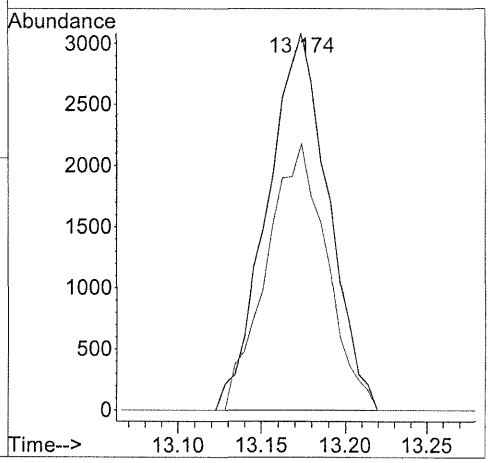


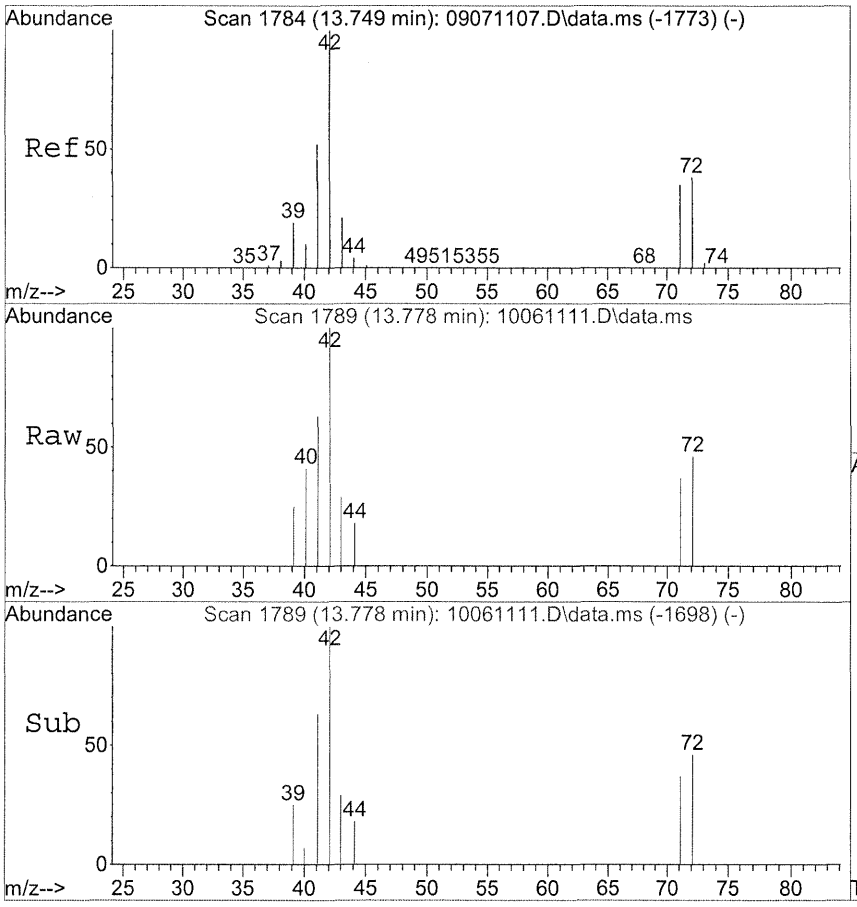


#32
Chloroform
Concen: 0.34 ng
RT: 13.17 min Scan# 1683
Delta R.T. -0.046 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 83 Resp: 7798

Ion	Ratio	Lower	Upper
83	100		
85	69.6	45.3	85.3

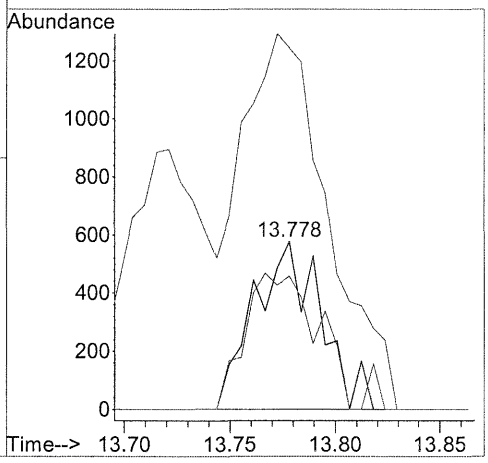


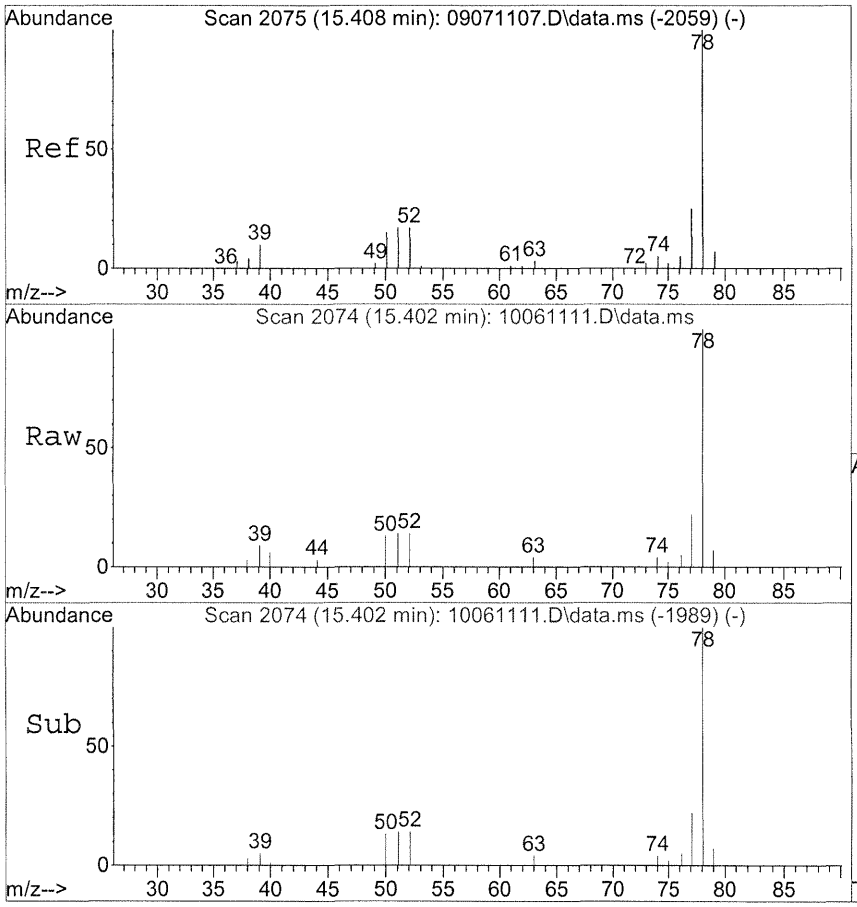


#34
Tetrahydrofuran (THF)
Concen: 0.12 ng
RT: 13.78 min Scan# 1789
Delta R.T. 0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 72 Resp: 1265

Ion	Ratio	Lower	Upper
72	100		
71	88.1	75.1	115.1
42	294.5	168.1	208.1#

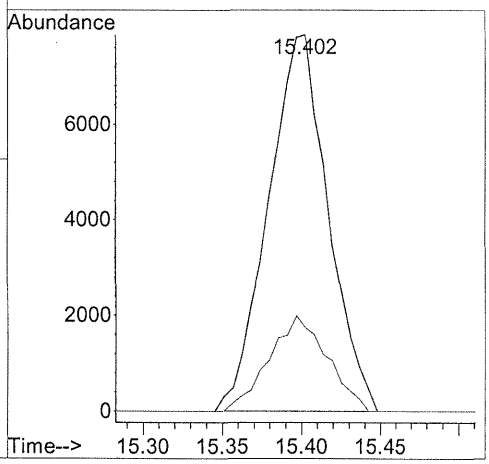


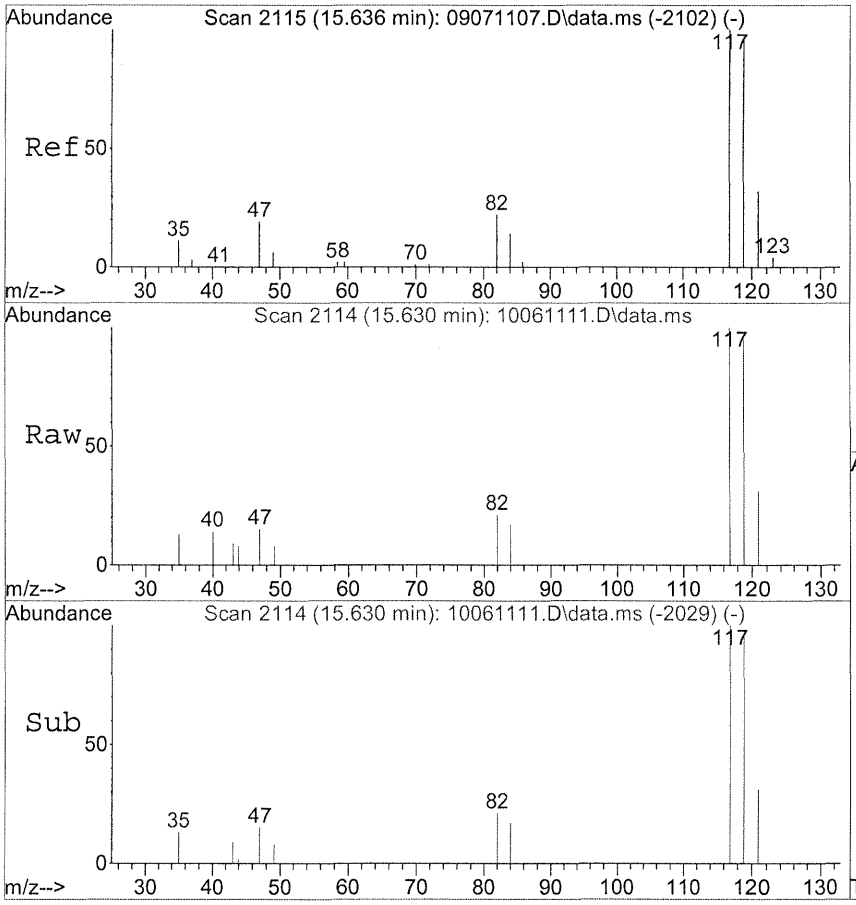


#41
Benzene
Concen: 0.34 ng
RT: 15.40 min Scan# 2074
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 78 Resp: 20601

Ion	Ratio	Lower	Upper
78	100		
77	24.4	4.0	44.0

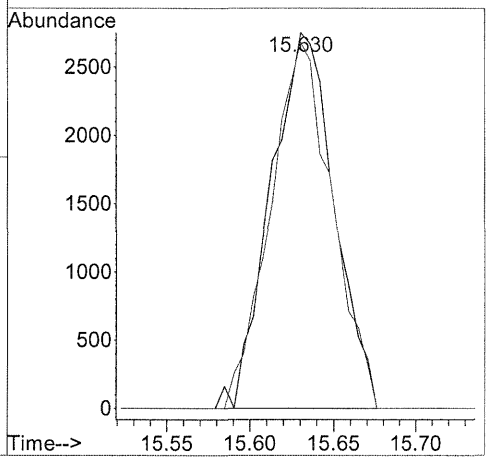


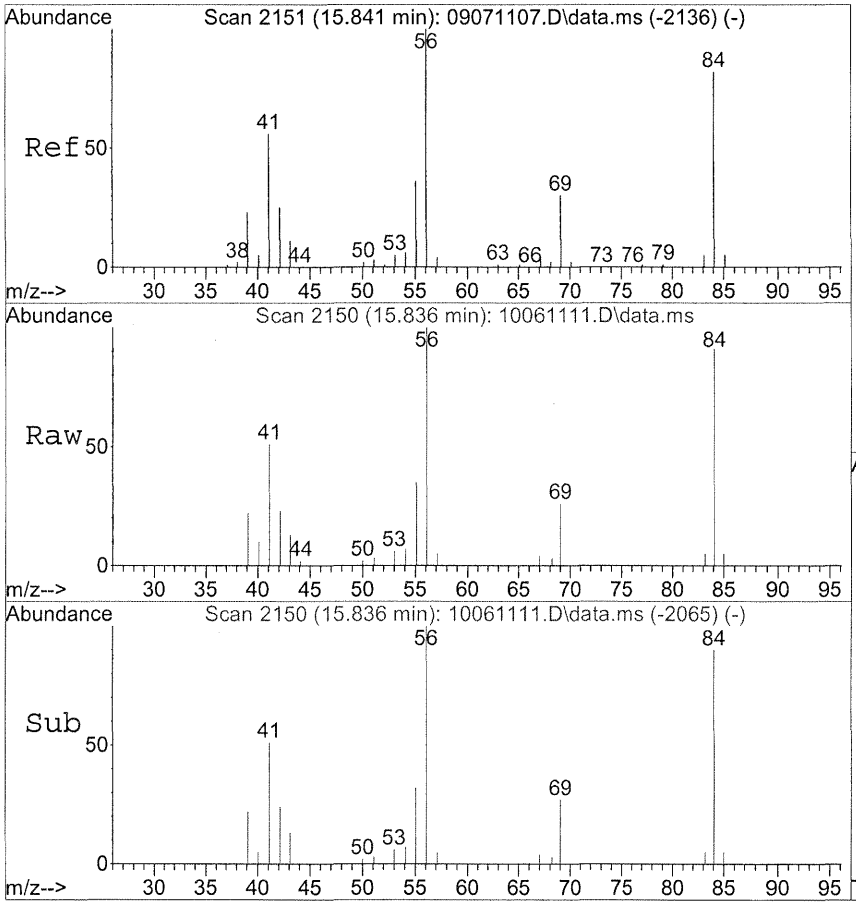


#42
Carbon Tetrachloride
Concen: 0.39 ng
RT: 15.63 min Scan# 2114
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion:117 Resp: 7255

Ion	Ratio	Lower	Upper
117	100		
119	95.3	77.0	117.0

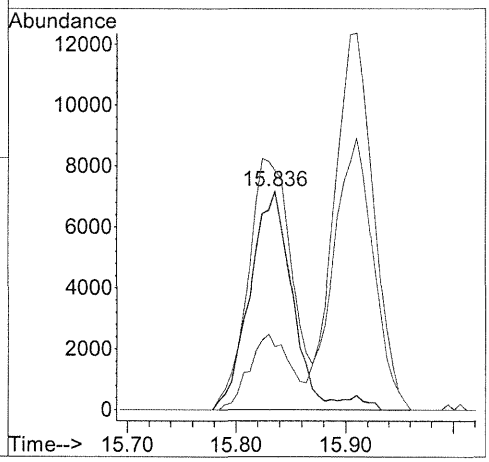


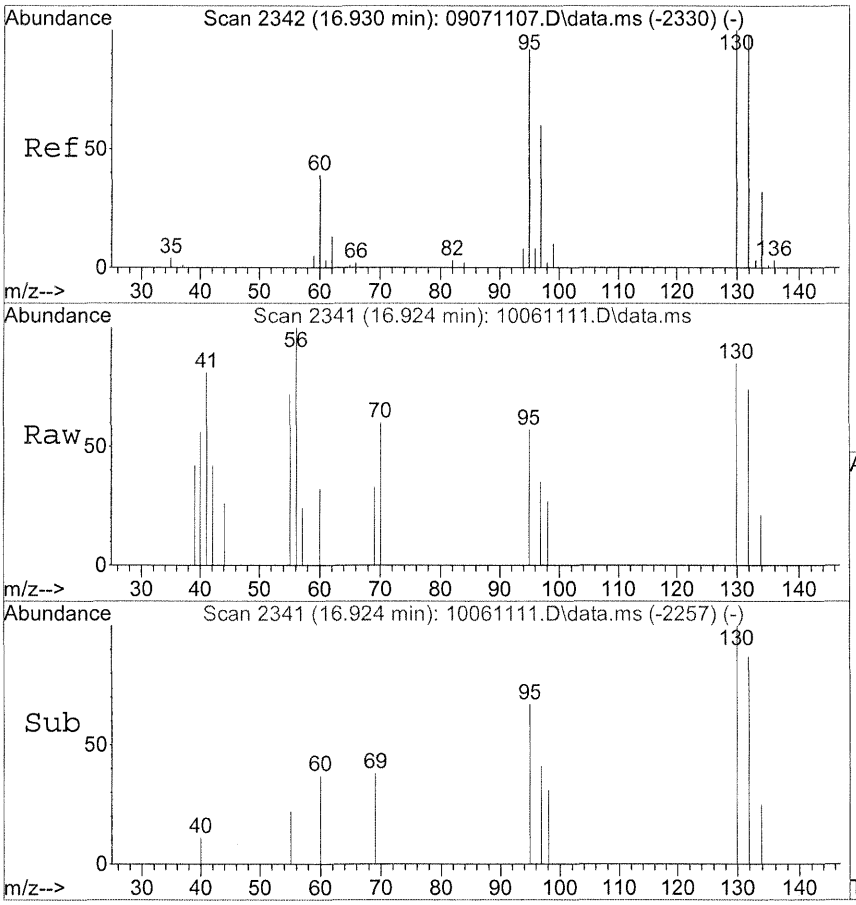


#43
Cyclohexane
Concen: 0.75 ng
RT: 15.84 min Scan# 2150
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 84 Resp: 19677

Ion	Ratio	Lower	Upper
84	100		
69	33.0	16.9	56.9
56	116.3	87.7	127.7

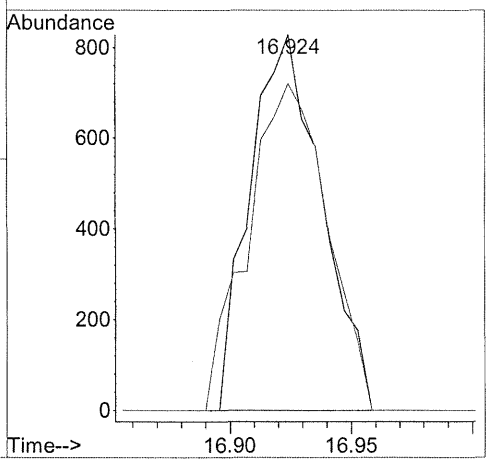


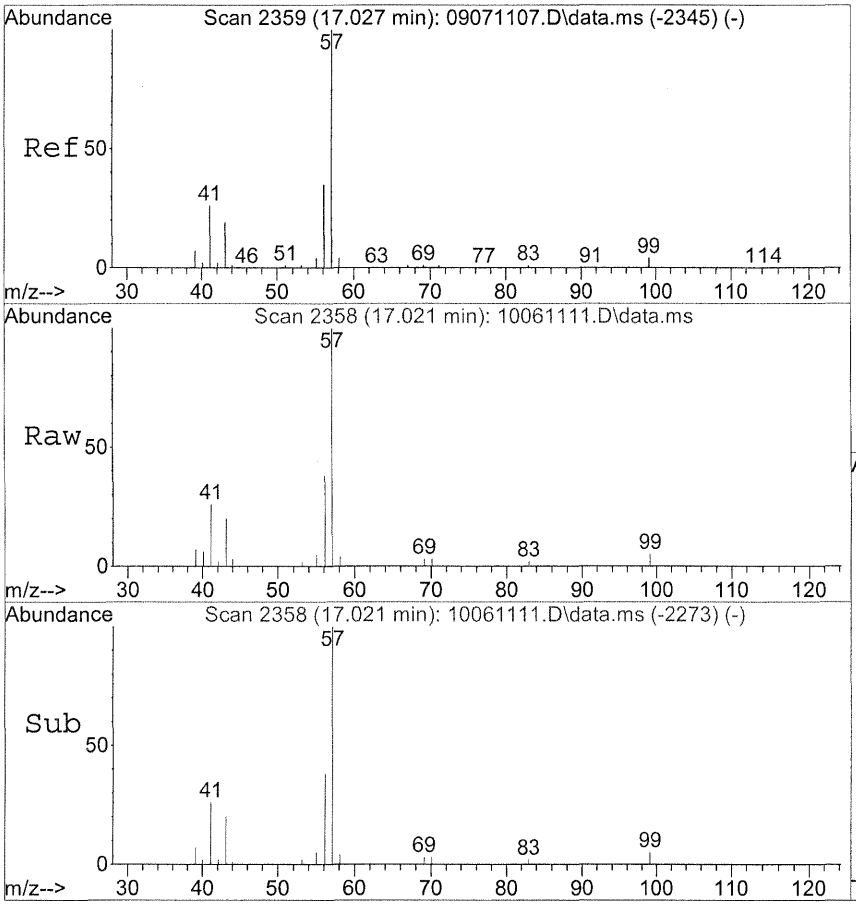


#47
Trichloroethene
Concen: 0.10 ng
RT: 16.92 min Scan# 2341
Delta R.T. -0.023 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion:130 Resp: 1706

Ion	Ratio	Lower	Upper
130	100		
132	96.3	75.8	115.8

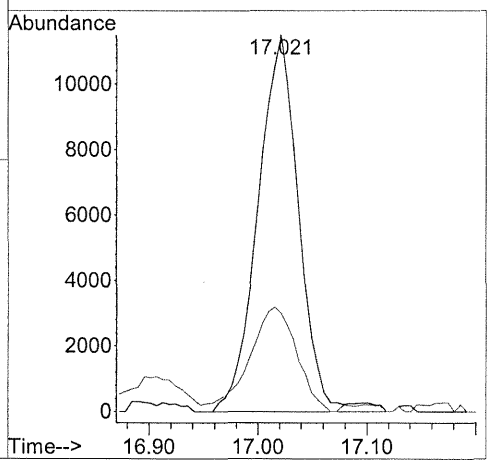


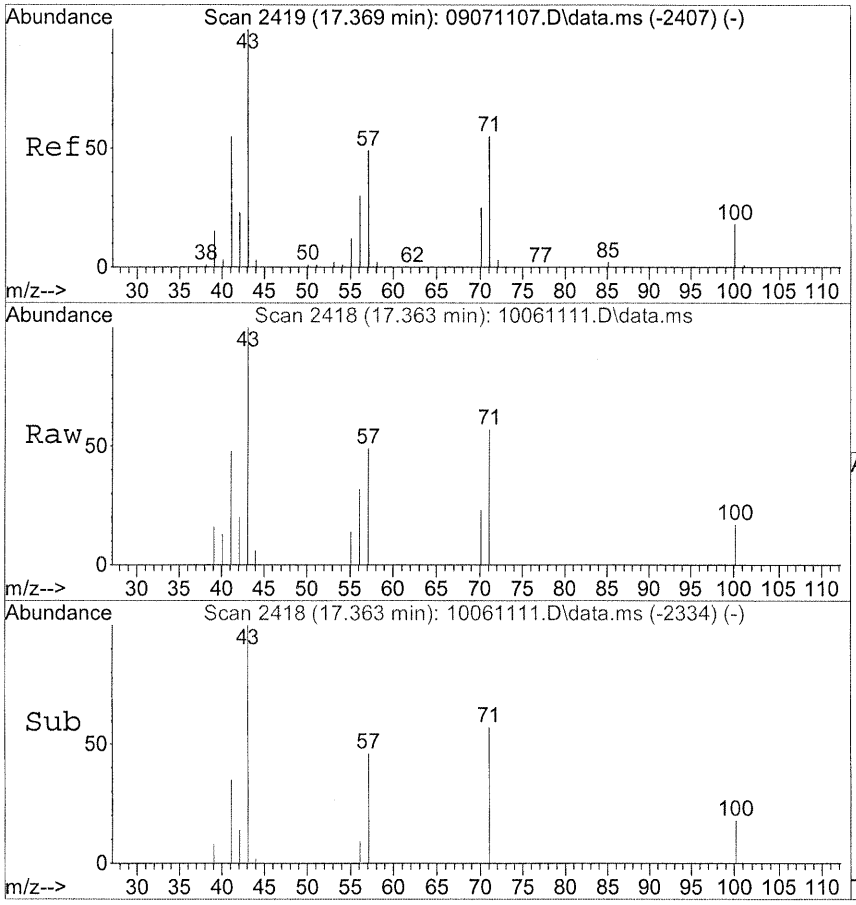


#49
2,2,4-Trimethylpentane (Isooc
Concen: 0.40 ng
RT: 17.02 min Scan# 2358
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 57 Resp: 30275

Ion	Ratio	Lower	Upper
57	100		
41	31.8	10.2	50.2

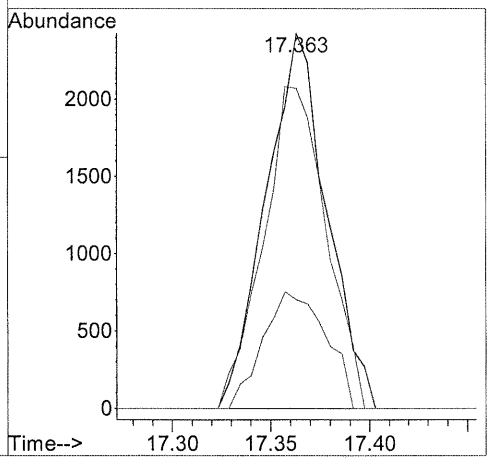


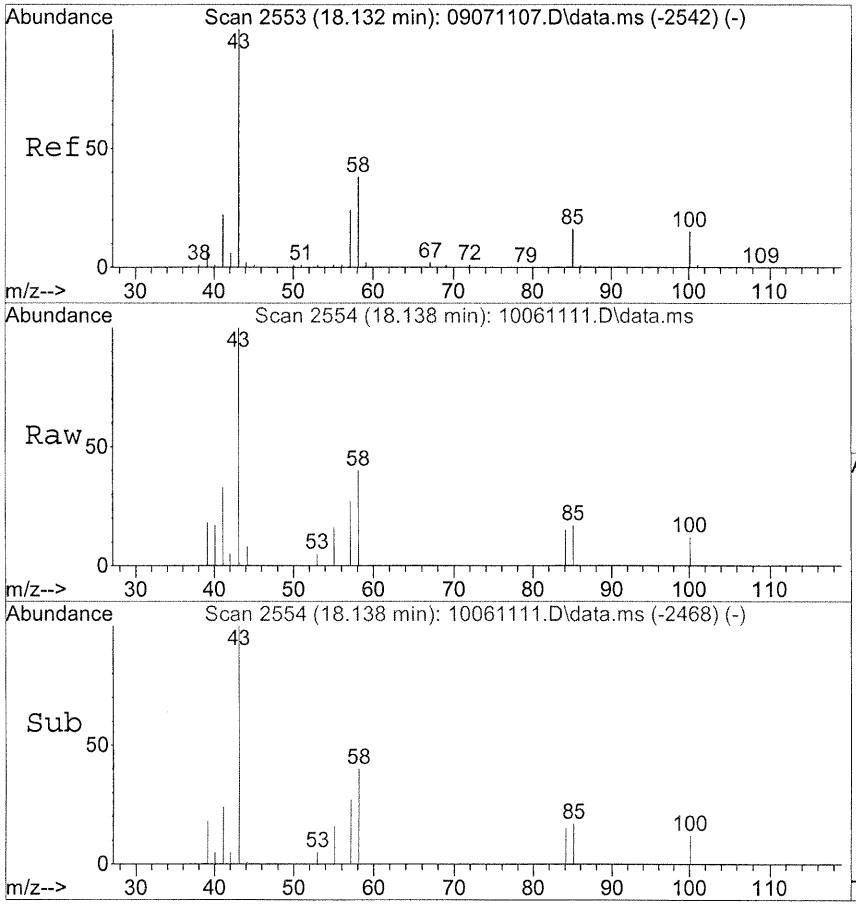


#51
n-Heptane
Concen: 0.29 ng
RT: 17.36 min Scan# 2418
Delta R.T. -0.023 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 71 Resp: 5164

Ion	Ratio	Lower	Upper
71	100		
57	88.6	59.7	99.7
100	32.1	15.2	55.2

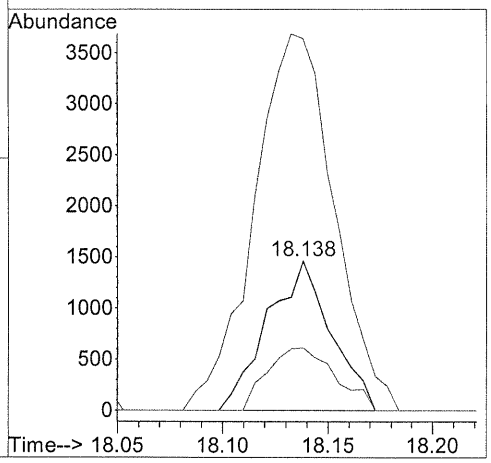


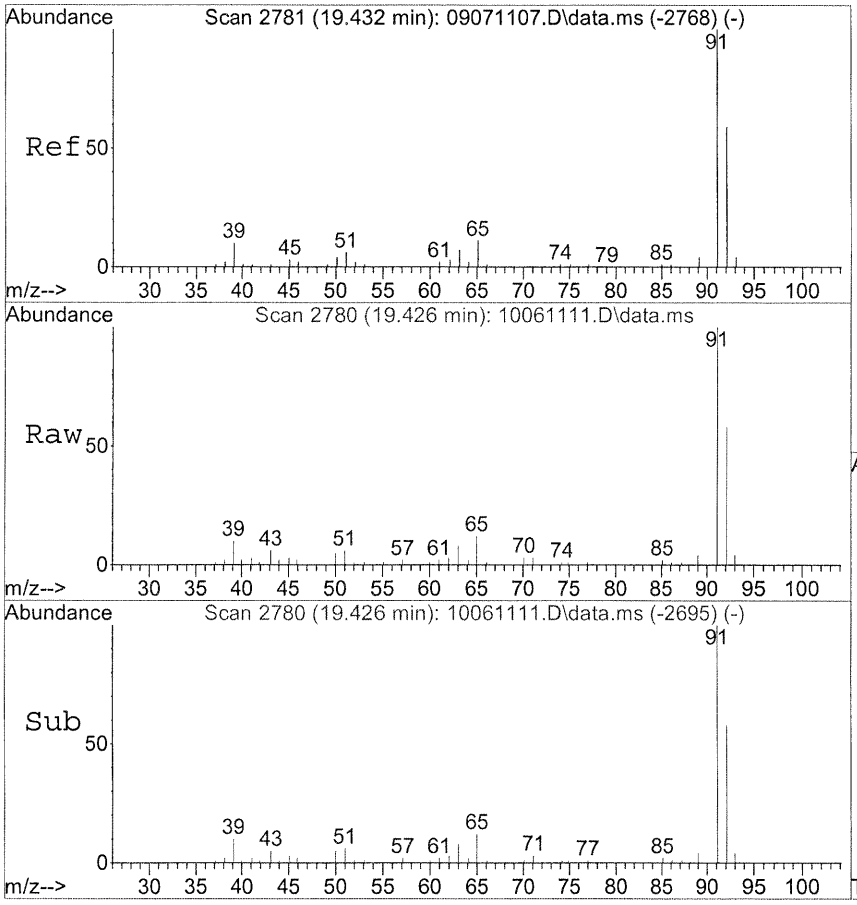


#53
4-Methyl-2-pentanone
Concen: 0.20 ng
RT: 18.14 min Scan# 2554
Delta R.T. -0.012 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 58 Resp: 3053

Ion	Ratio	Lower	Upper
58	100		
43	317.0	195.7	293.5#
85	44.7	43.7	65.5

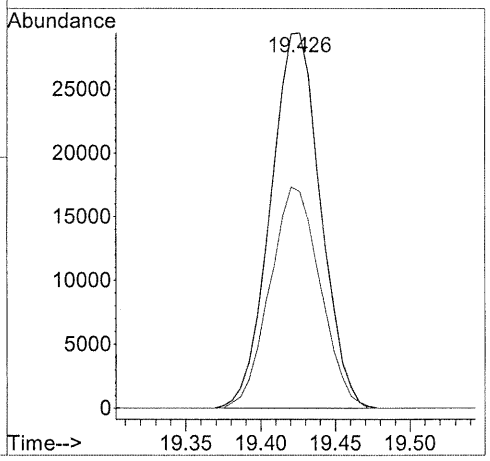


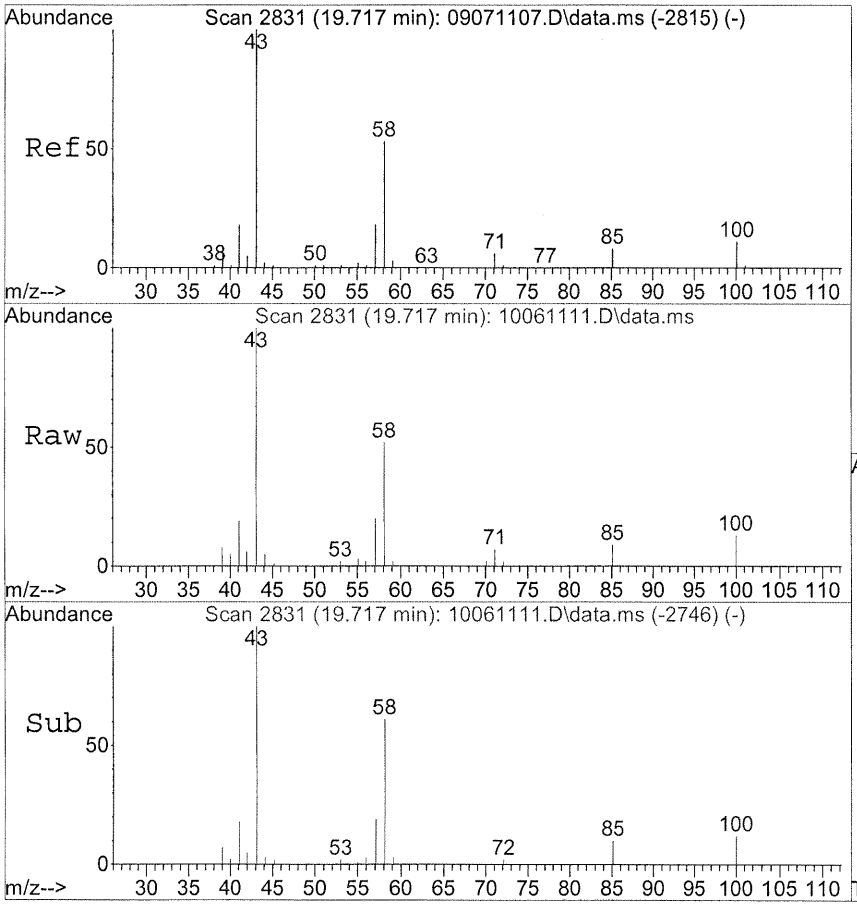


#58
Toluene
Concen: 1.03 ng
RT: 19.43 min Scan# 2780
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 91 Resp: 68362

Ion	Ratio	Lower	Upper
91	100		
92	59.3	38.8	78.8

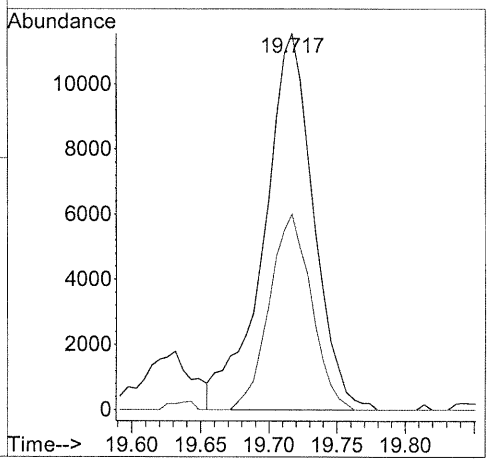


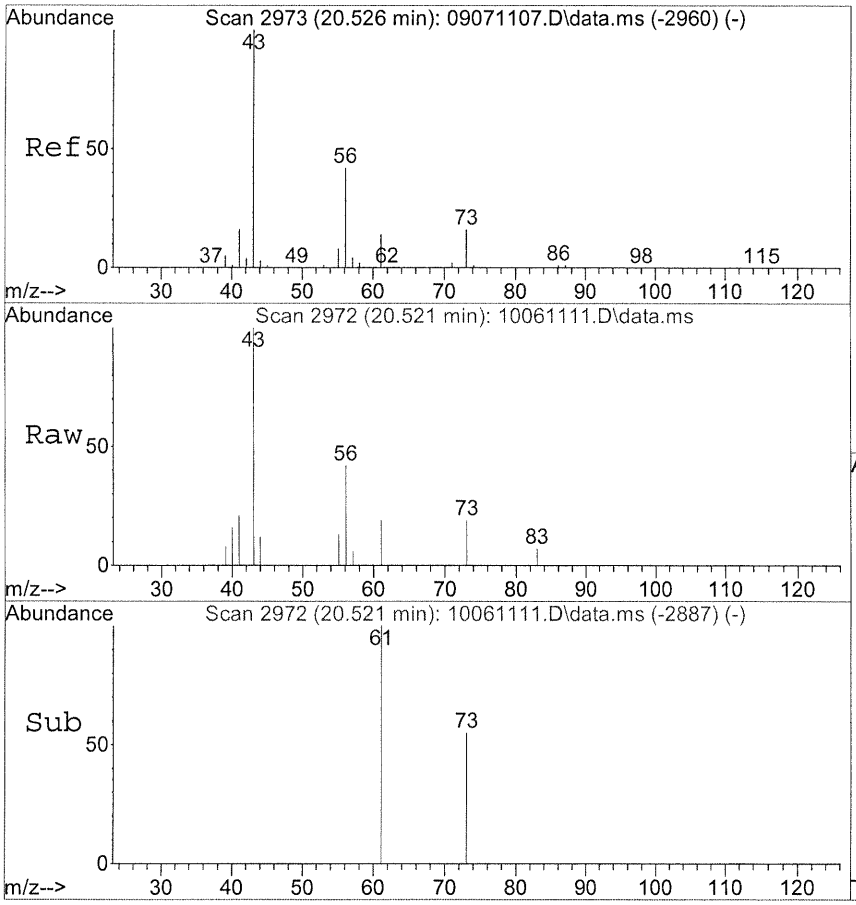


#59
2-Hexanone
Concen: 0.79 ng
RT: 19.72 min Scan# 2831
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 43 Resp: 29216

Ion	Ratio	Lower	Upper
43	100		
58	44.1	37.7	77.7

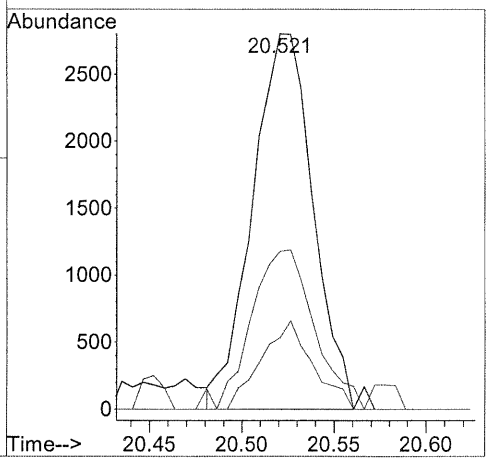


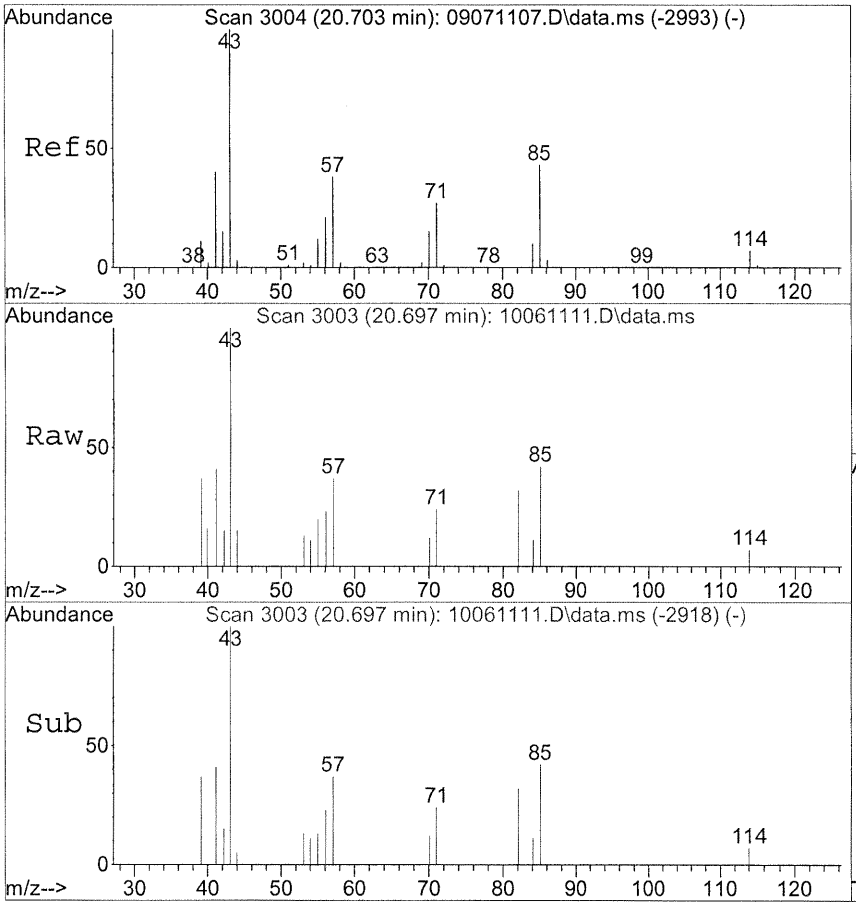


#62
n-Butyl Acetate
Concen: 0.15 ng
RT: 20.52 min Scan# 2972
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 43 Resp: 6444

Ion	Ratio	Lower	Upper
43	100		
56	43.4	23.6	63.6
73	19.9	0.1	40.1

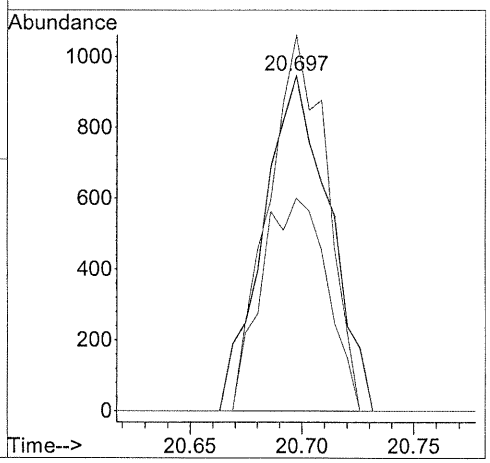


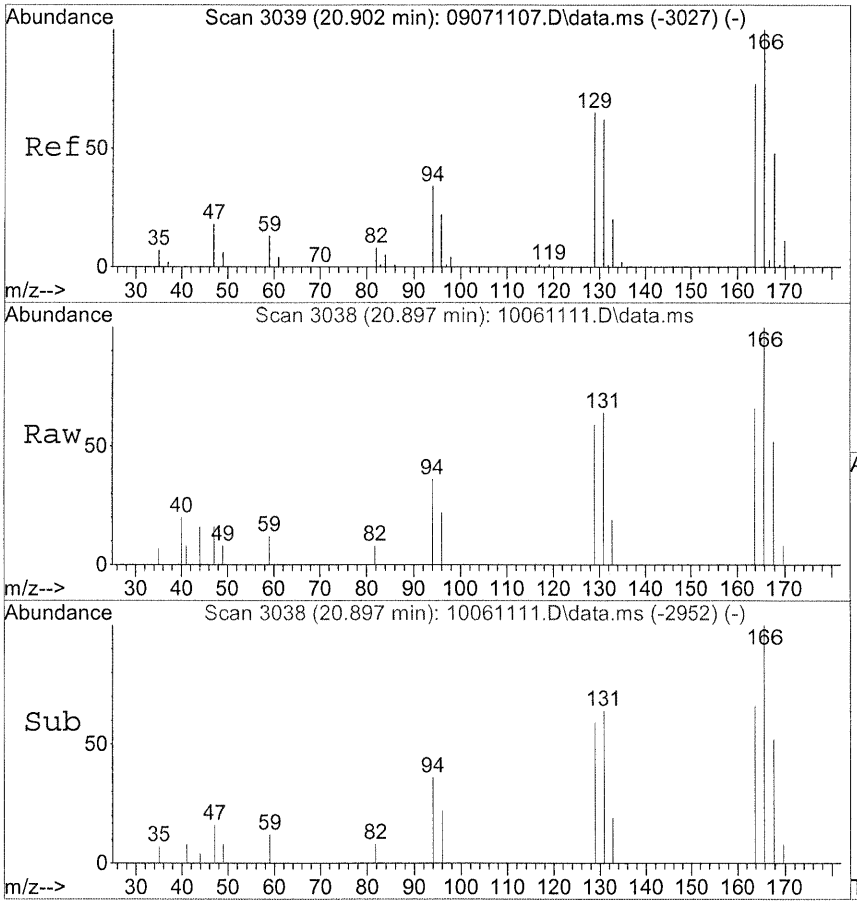


#63
n-Octane
Concen: 0.13 ng
RT: 20.70 min Scan# 3003
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 57 Resp: 1935

Ion	Ratio	Lower	Upper
57	100		
85	99.6	110.6	166.0#
71	63.3	61.0	91.6

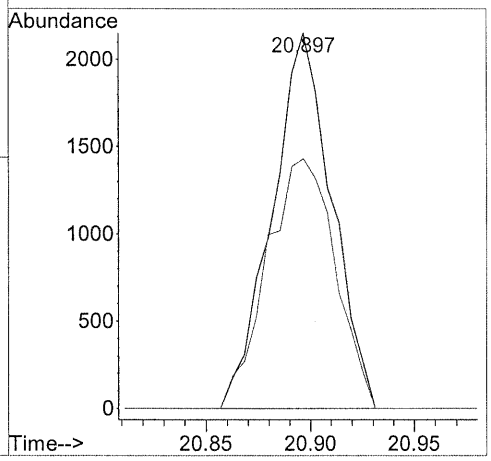


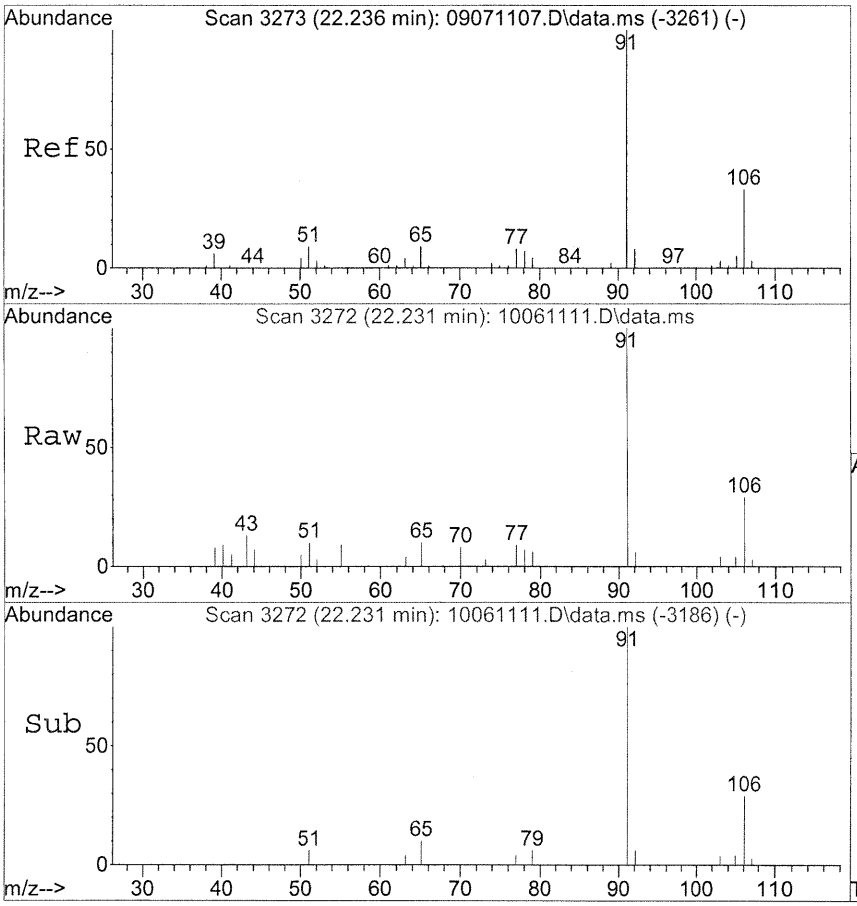


#64
Tetrachloroethene
Concen: 0.21 ng
RT: 20.90 min Scan# 3038
Delta R.T. -0.011 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion:166 Resp: 4290

Ion	Ratio	Lower	Upper
166	100		
164	76.1	58.2	98.2

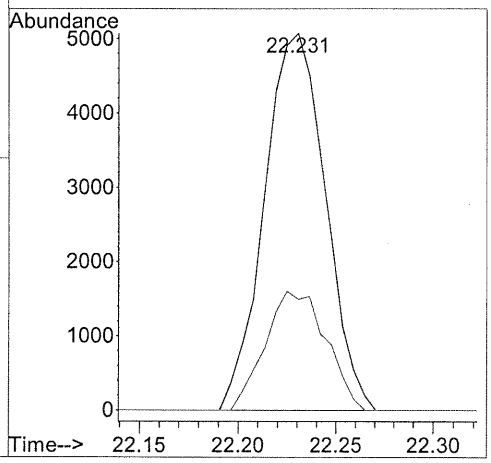


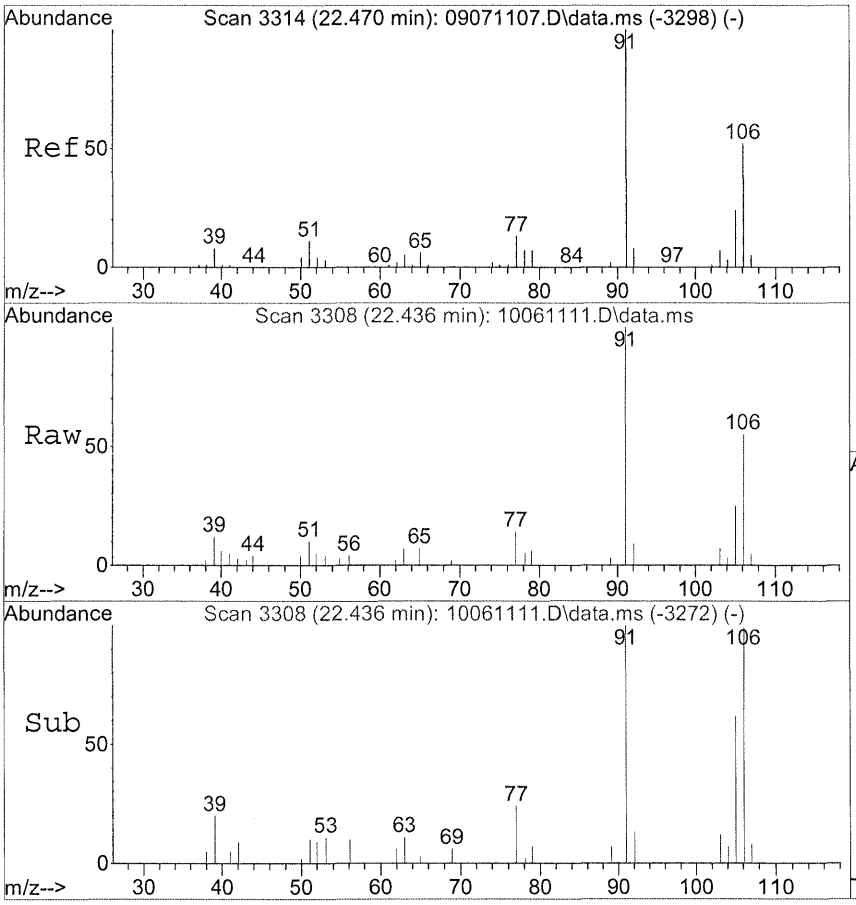


#66
Ethylbenzene
Concen: 0.15 ng
RT: 22.23 min Scan# 3272
Delta R.T. -0.011 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 91 Resp: 10986

Ion	Ratio	Lower	Upper
91	100		
106	31.4	12.0	52.0

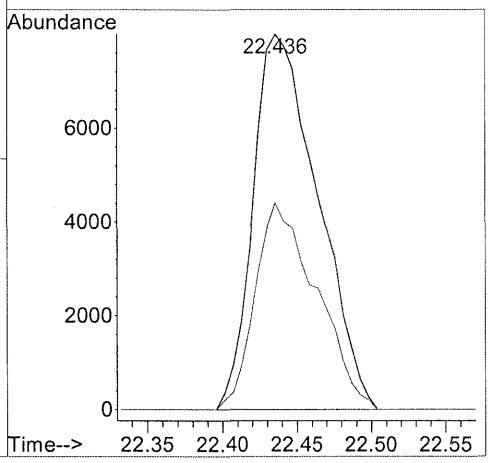


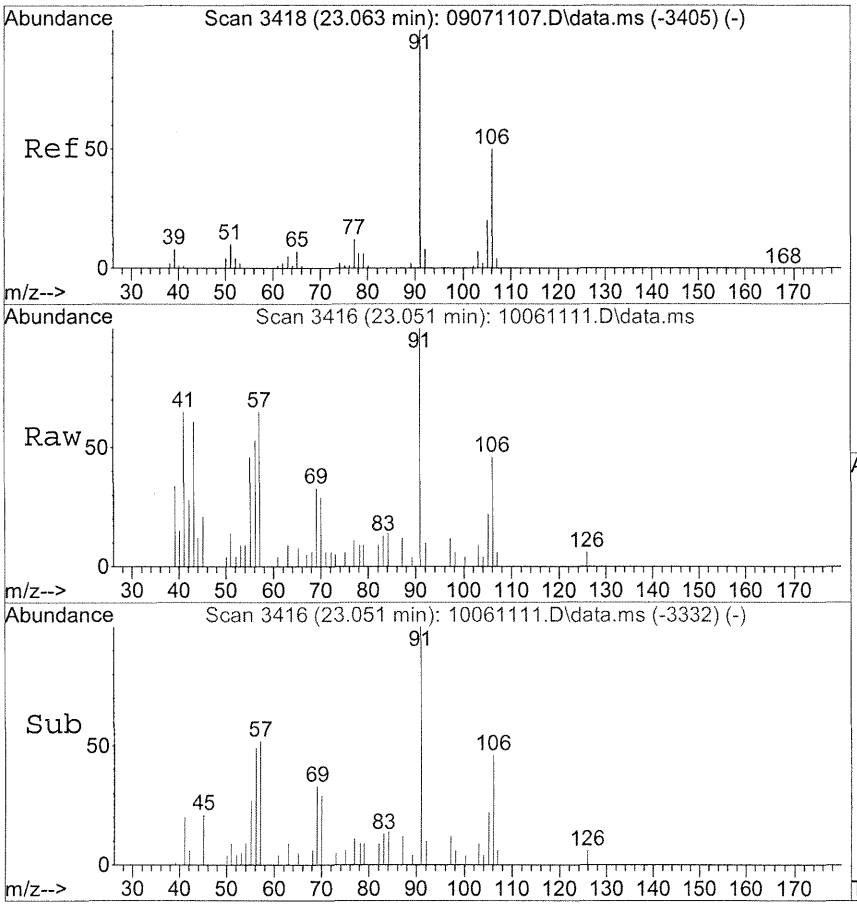


#67
m- & p-Xylenes
Concen: 0.42 ng
RT: 22.44 min Scan# 3308
Delta R.T. -0.046 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 91 Resp: 24112

Ion	Ratio	Lower	Upper
91	100		
106	52.1	27.4	67.4

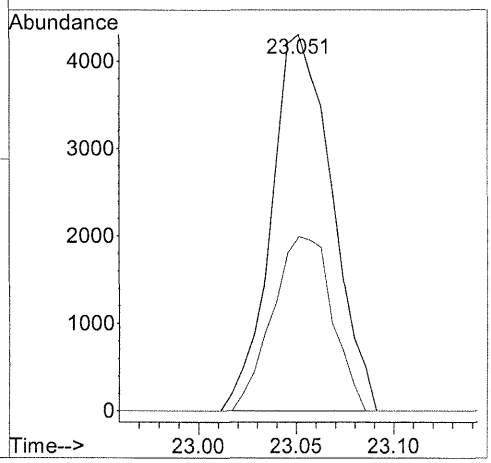


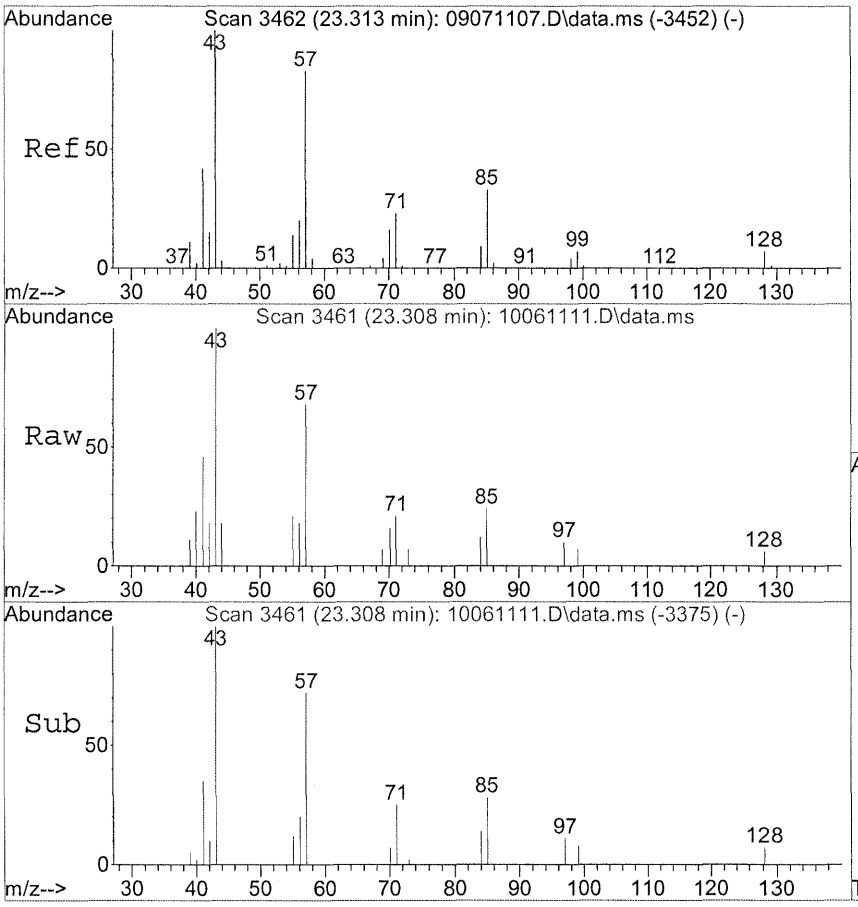


#70
o-Xylene
Concen: 0.15 ng
RT: 23.05 min Scan# 3416
Delta R.T. -0.023 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 91 Resp: 9282

Ion	Ratio	Lower	Upper
91	100		
106	45.6	25.7	65.7

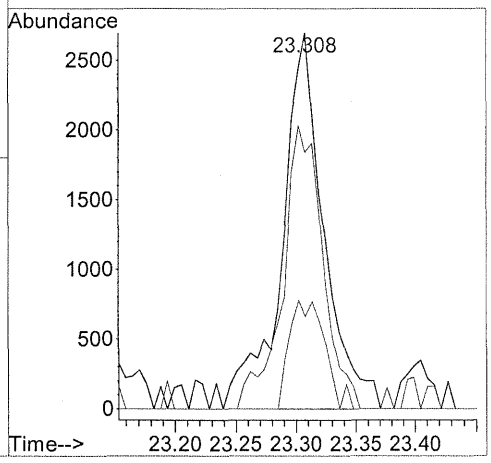


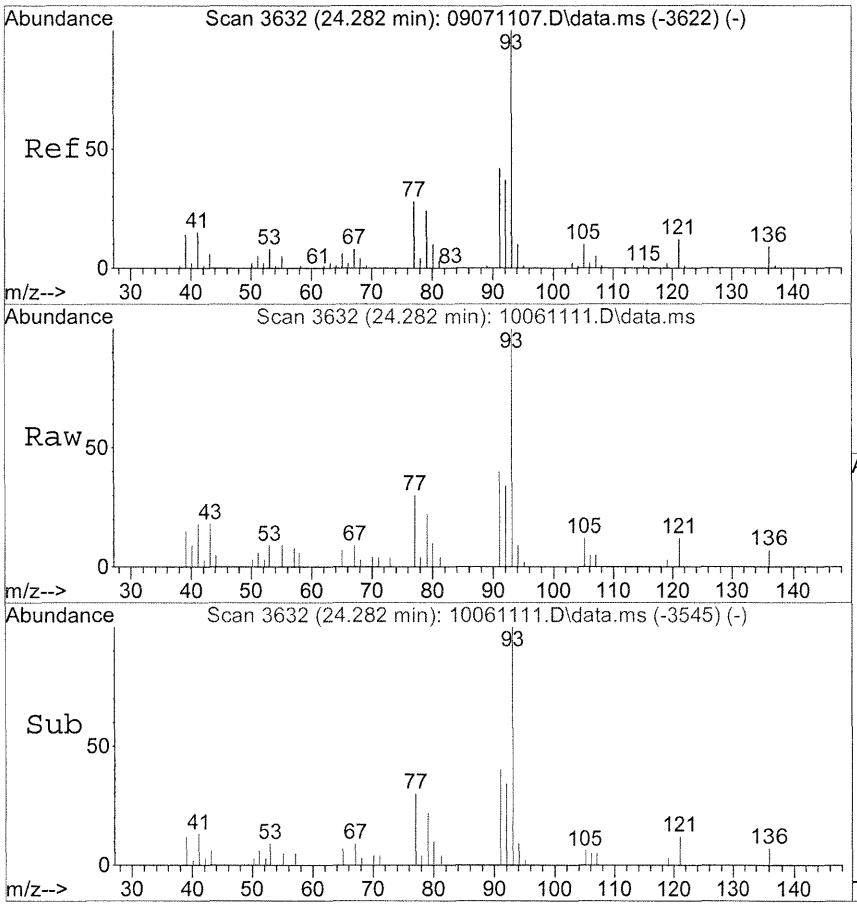


#71
n-Nonane
Concen: 0.17 ng
RT: 23.31 min Scan# 3461
Delta R.T. -0.011 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 43 Resp: 6612

Ion	Ratio	Lower	Upper
43	100		
57	71.3	75.1	115.1#
85	24.1	22.0	62.0

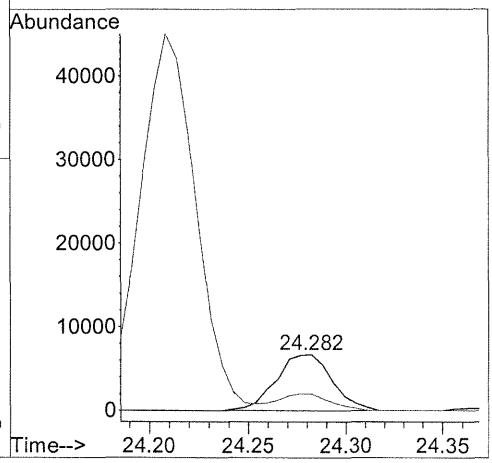


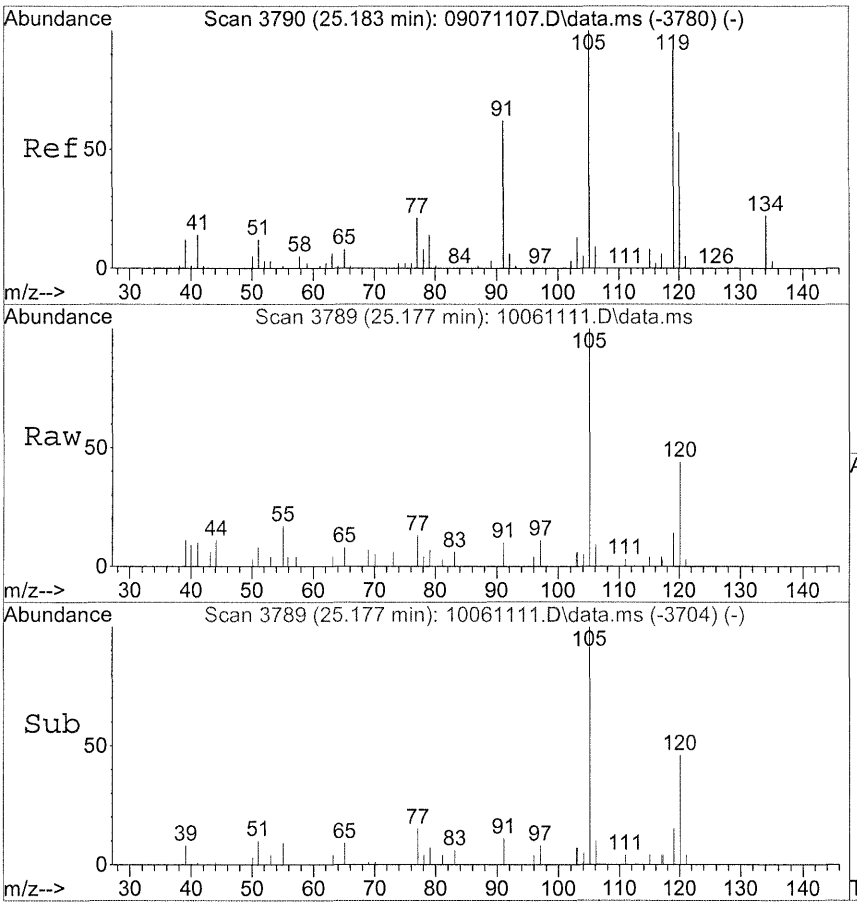


#75
alpha-Pinene
Concen: 0.34 ng
RT: 24.28 min Scan# 3632
Delta R.T. -0.006 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 93 Resp: 13238

Ion	Ratio	Lower	Upper
93	100		
77	28.2	12.5	52.5

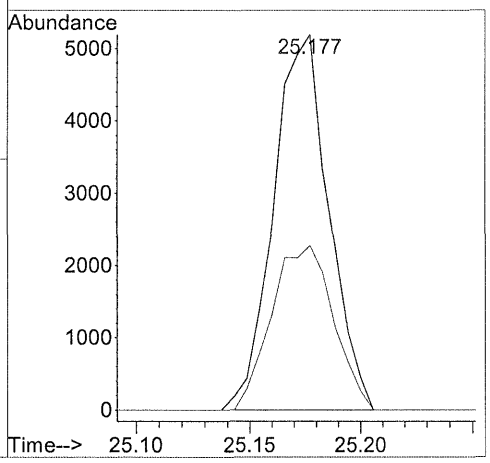


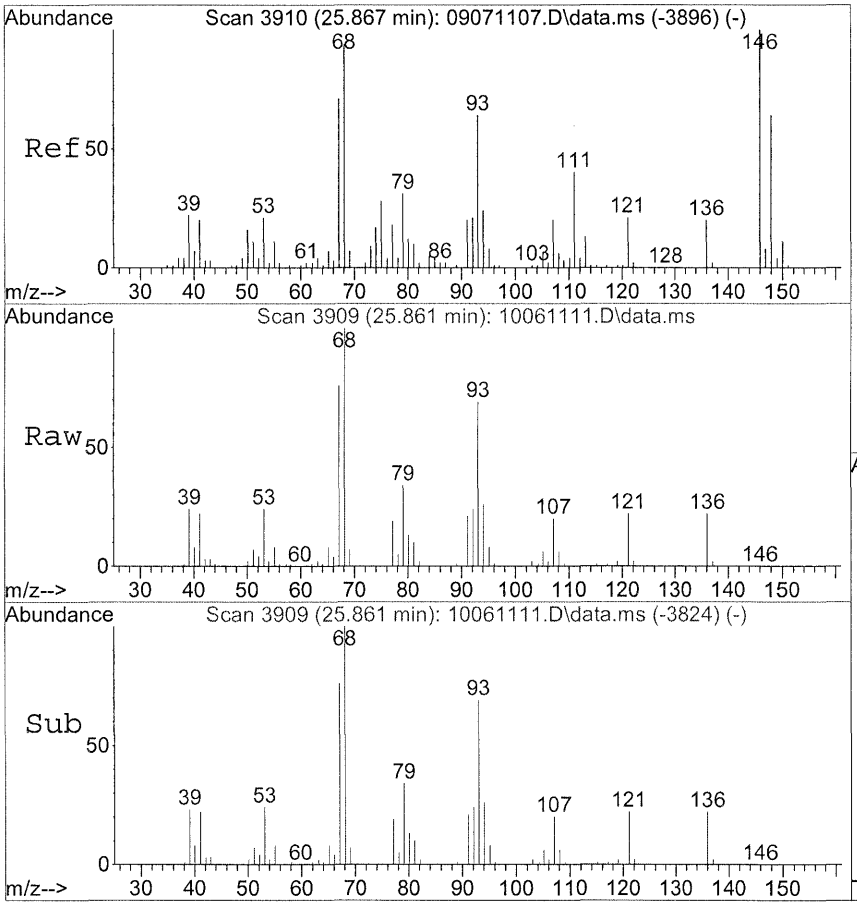


#82
1,2,4-Trimethylbenzene
Concen: 0.14 ng
RT: 25.18 min Scan# 3789
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion:105 Resp: 8967

Ion	Ratio	Lower	Upper
105	100		
120	49.0	29.9	69.9

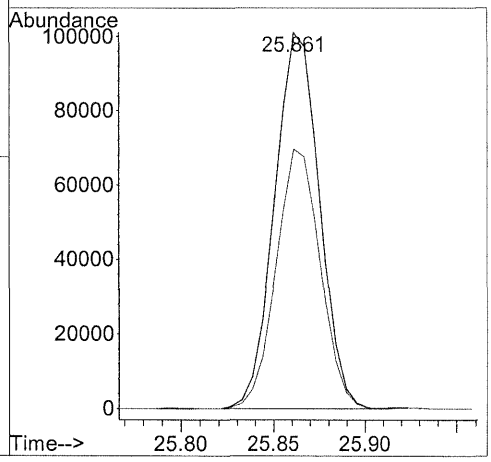


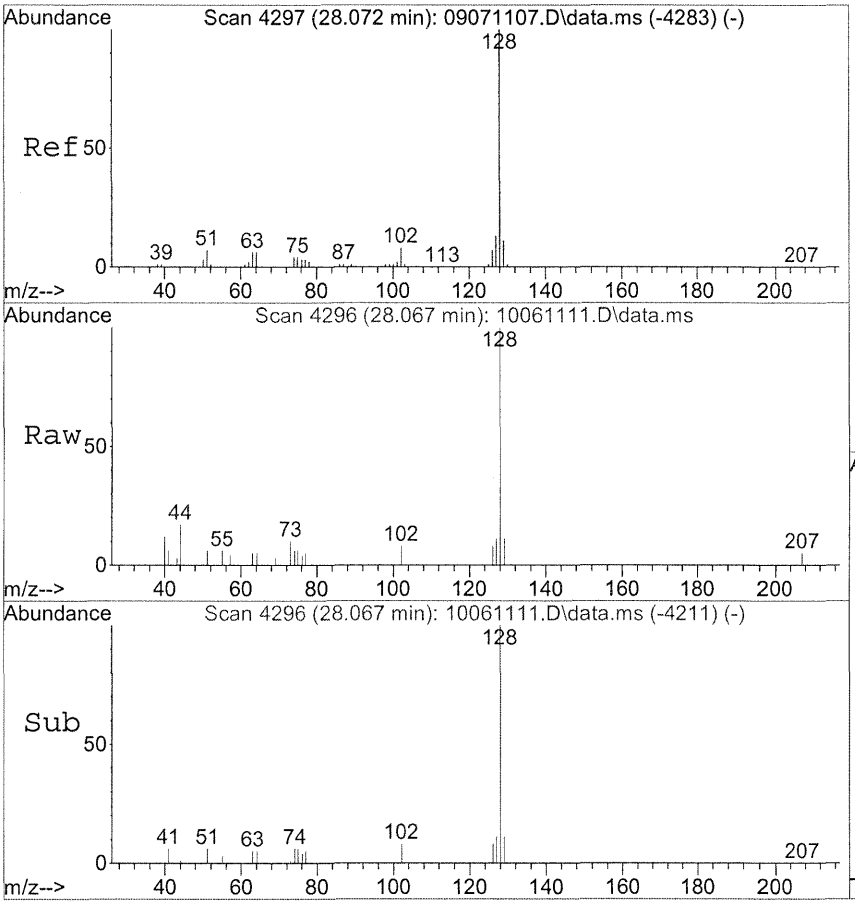


#91
d-Limonene
Concen: 6.77 ng
RT: 25.86 min Scan# 3909
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion: 68 Resp: 171810

Ion	Ratio	Lower	Upper
68	100		
93	68.1	51.7	91.7

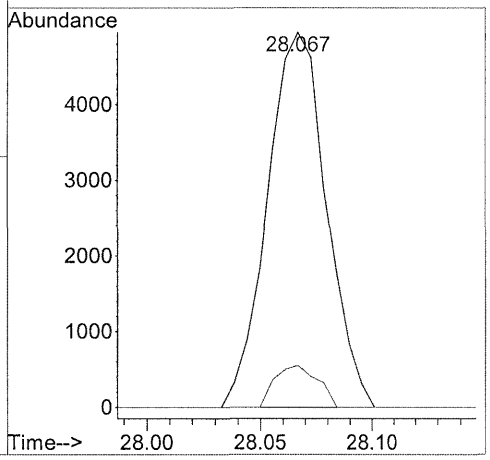




#95
Naphthalene
Concen: 0.10 ng
RT: 28.07 min Scan# 4296
Delta R.T. -0.017 min
Lab File: 10061111.D
Acq: 6 Oct 2011 16:41

Tgt Ion:128 Resp: 9045

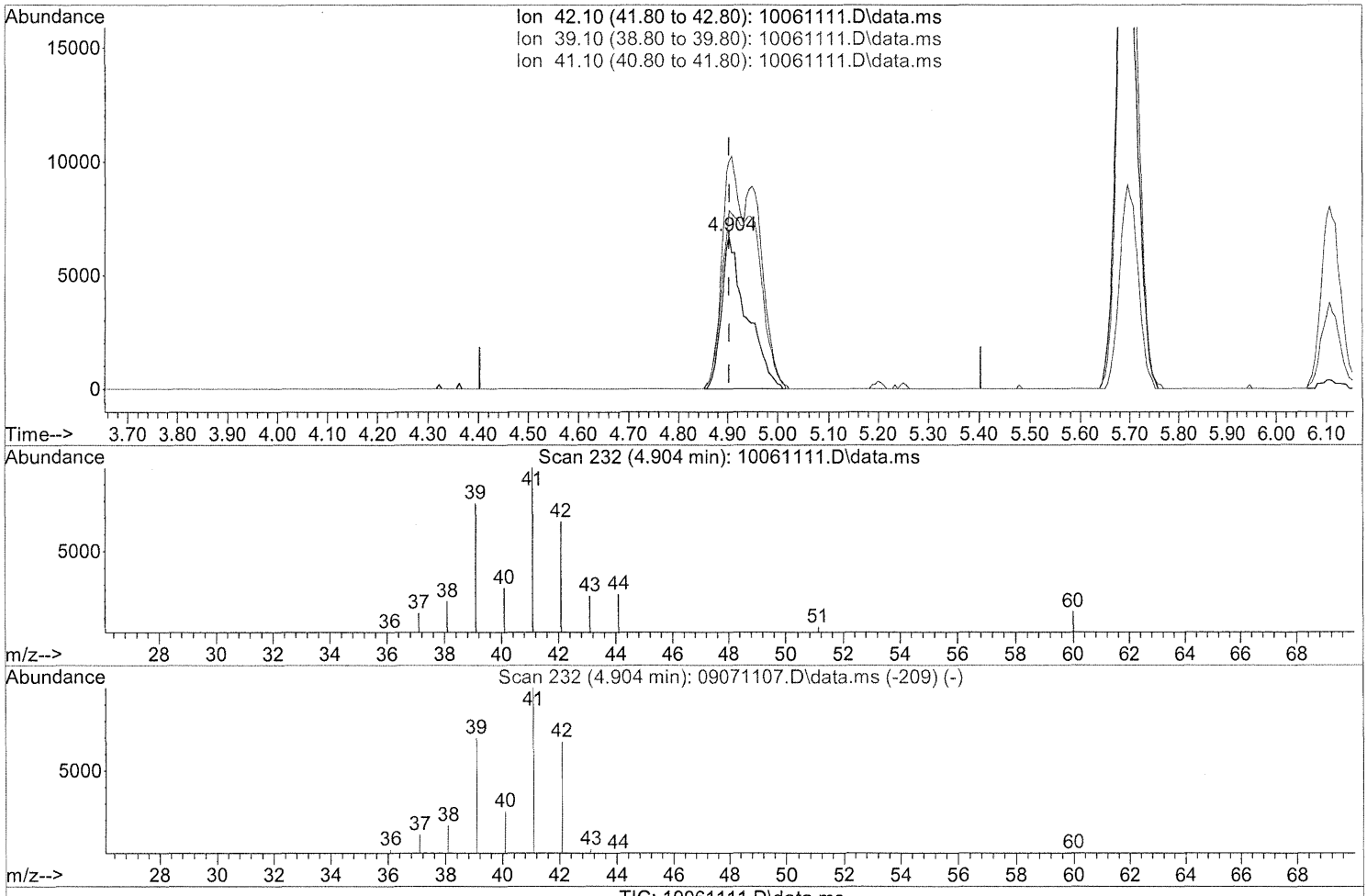
Ion	Ratio	Lower	Upper
128	100		
129	8.1	0.0	31.1



Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 16:41
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061111.D\data.ms

(2) Propene (T)

4.904min (-0.000) 1.02ng

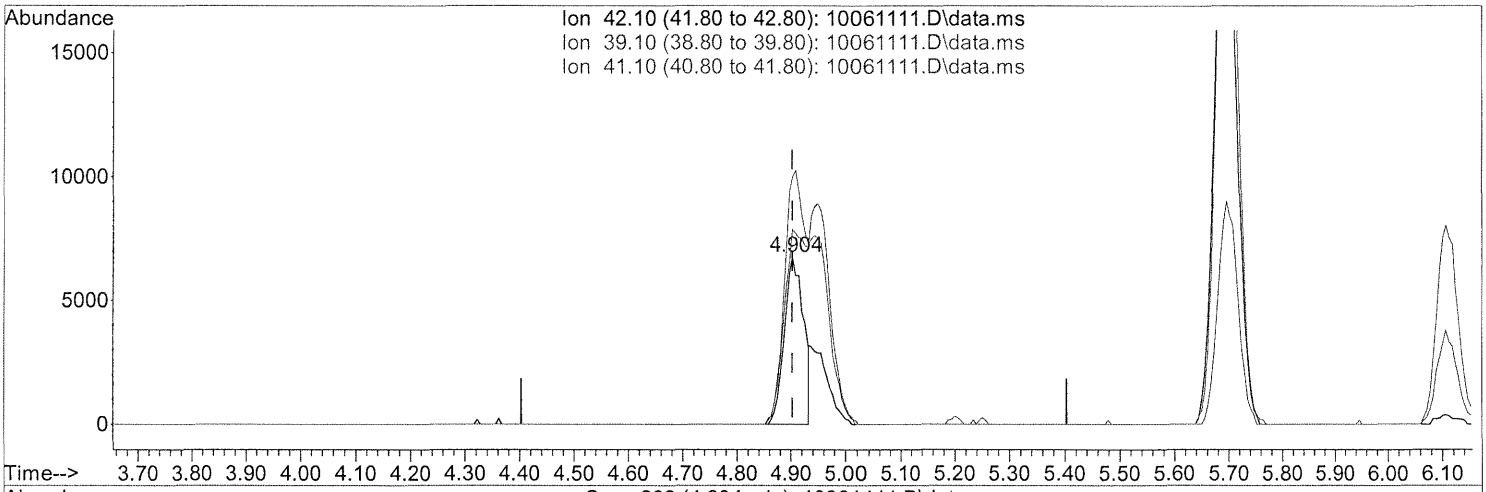
response 23517

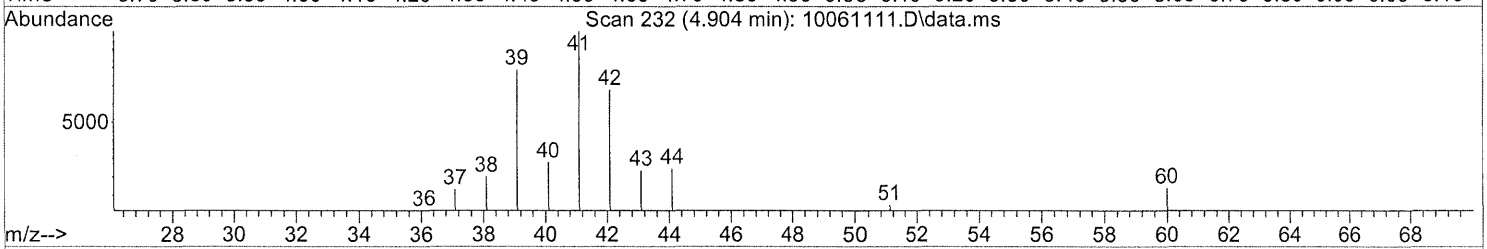
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	196.79#
0.00	0.00	0.00

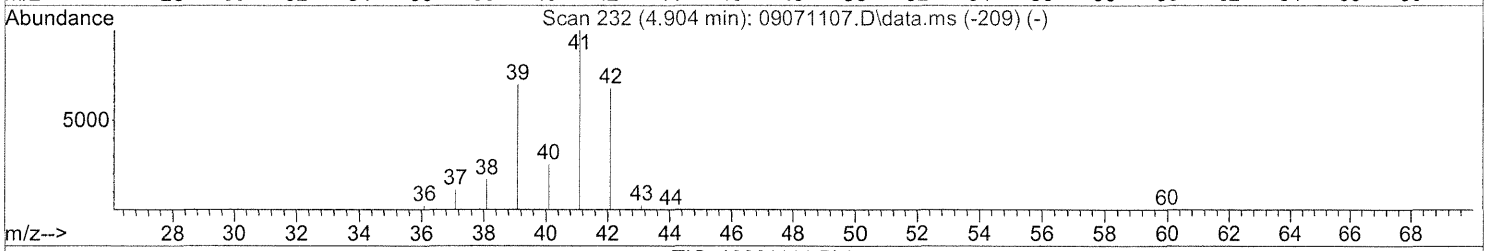
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 16:41
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061111.D\data.ms

(2) Propene (T)

4.904min (-0.000) 0.72ng m

response 16456

Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	281.22#
0.00	0.00	0.00

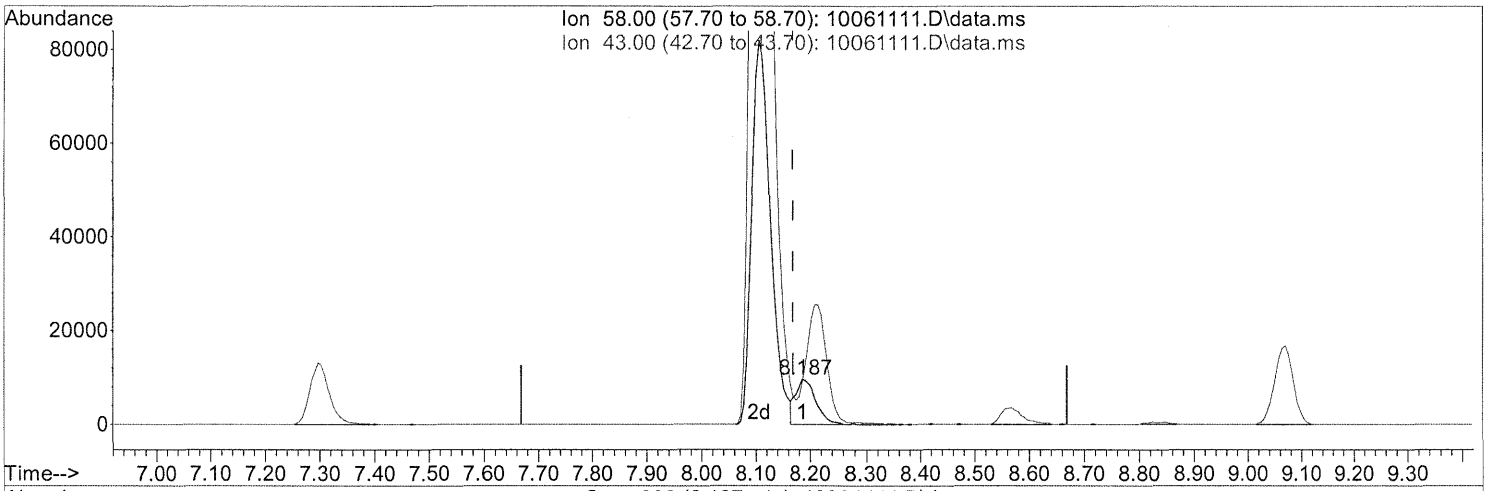
IPC

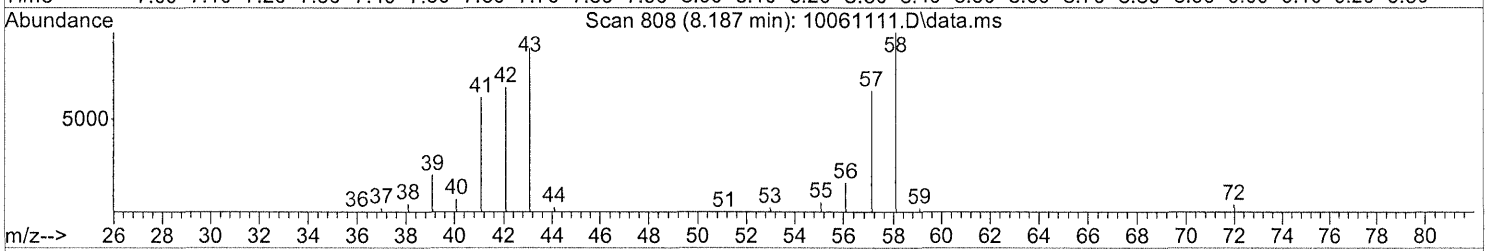
10/7/11 EM 10/7/11

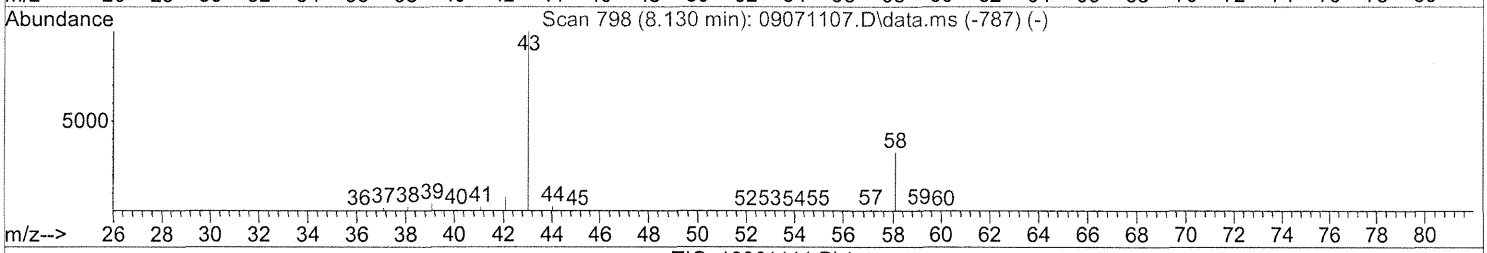
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 16:41
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061111.D\data.ms

(13) Acetone (T)

8.187min (+0.017) 1.93ng

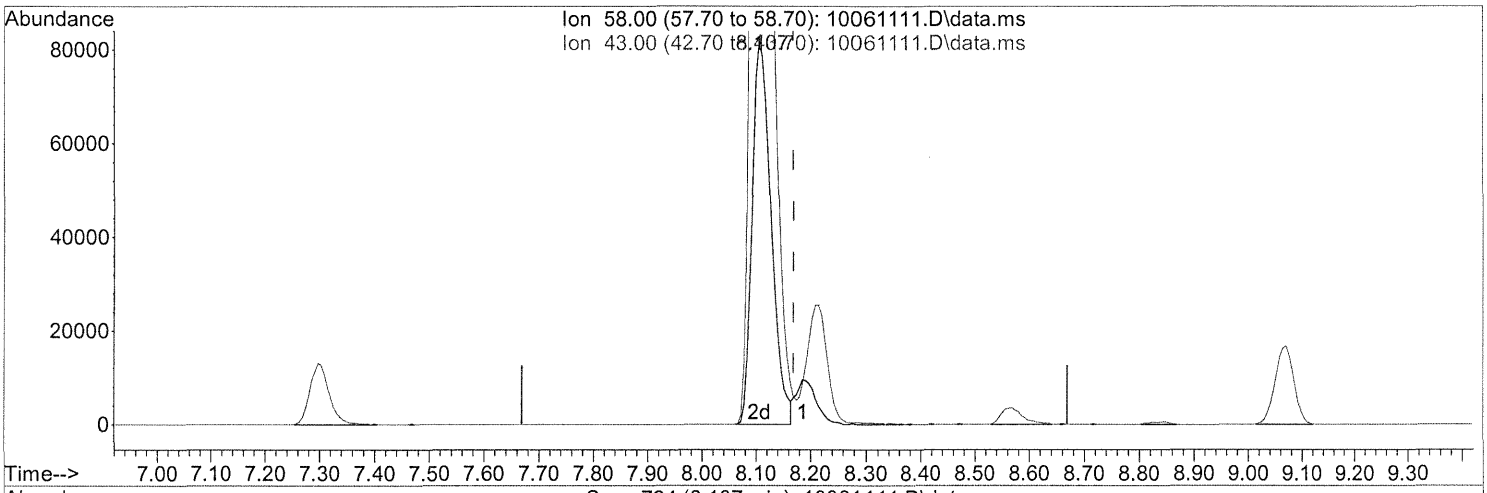
response 24461

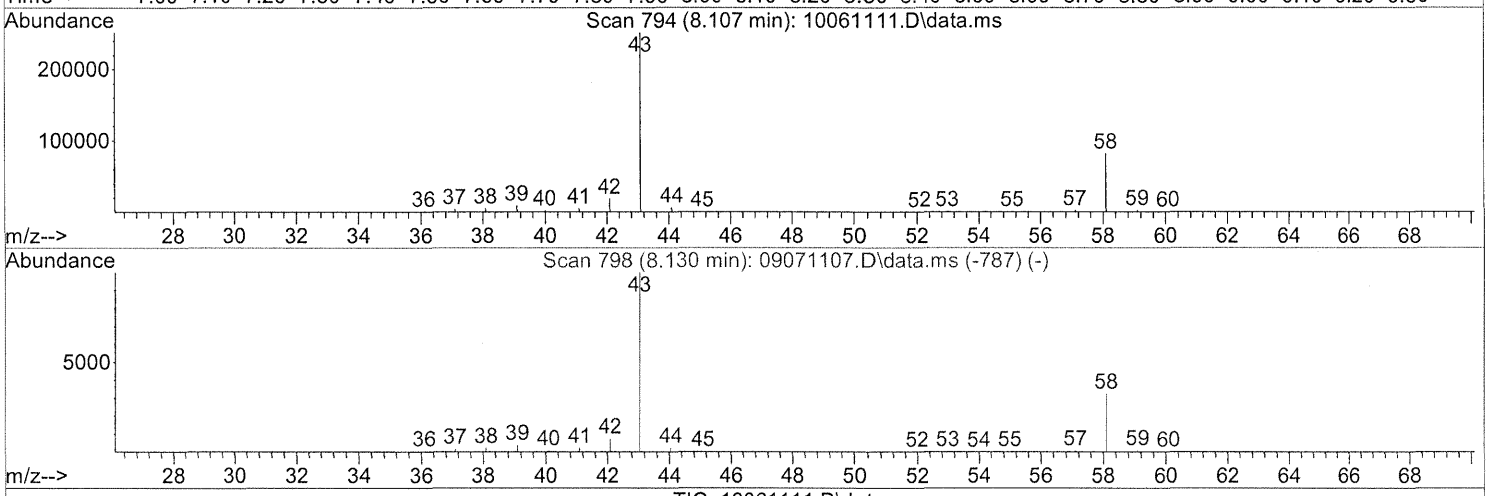
Ion	Exp%	Act%
58.00	100	100
43.00	313.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 16:41
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration





TIC: 10061111.D\data.ms

(13) Acetone (T)

8.107min (-0.063) 15.61ng m

response 198210

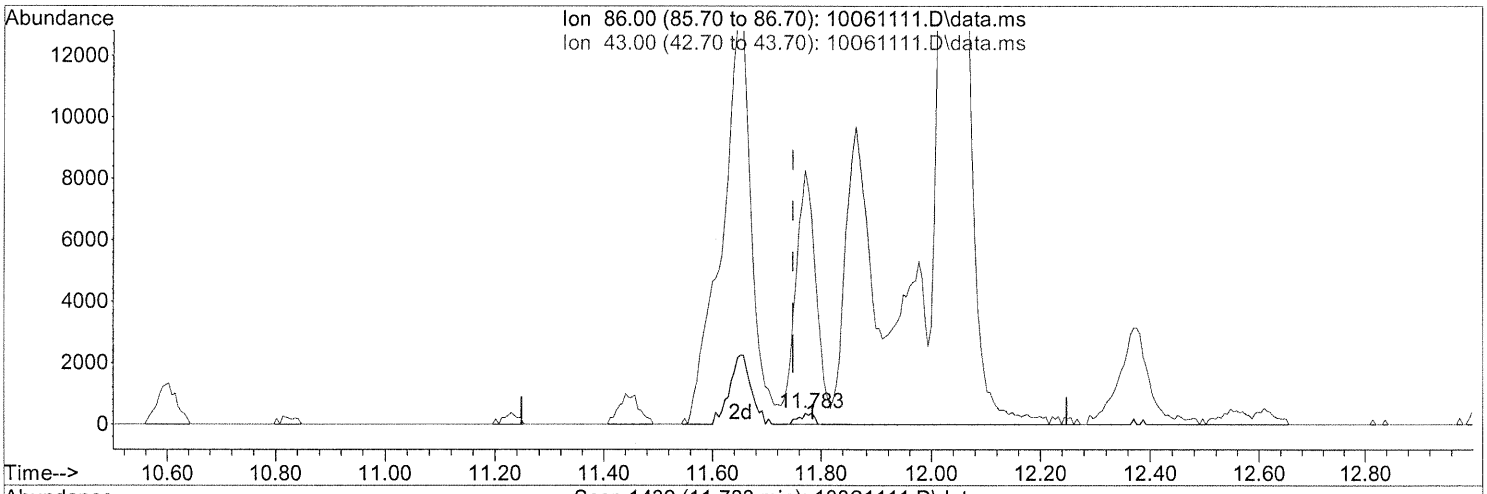
Ion	Exp%	Act%
58.00	100	100
43.00	313.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

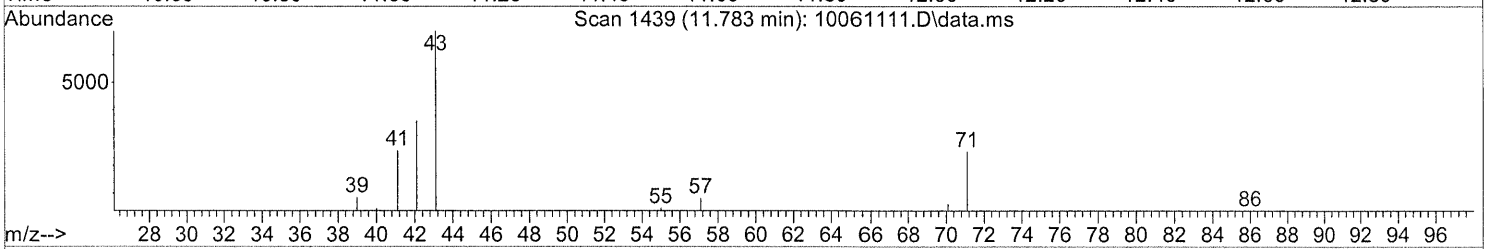
WP
10/7/11
10/7/11

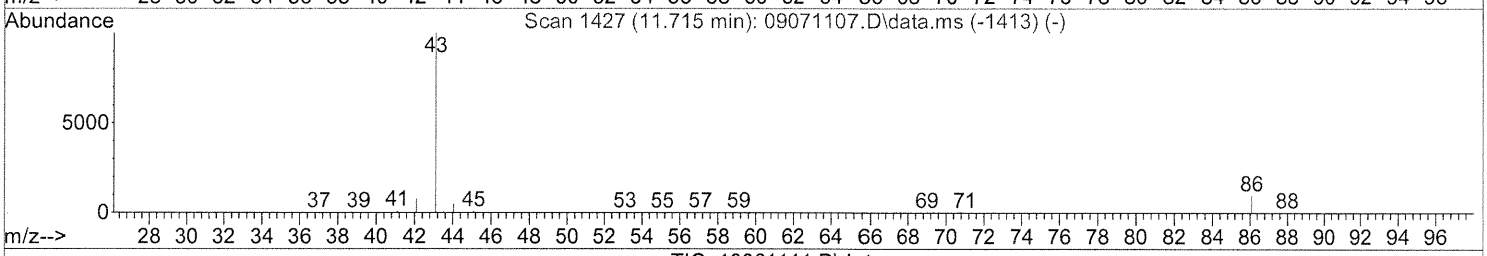
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 16:41
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061111.D\data.ms

(26) Vinyl Acetate (T)

11.783min (+0.034) 0.15ng

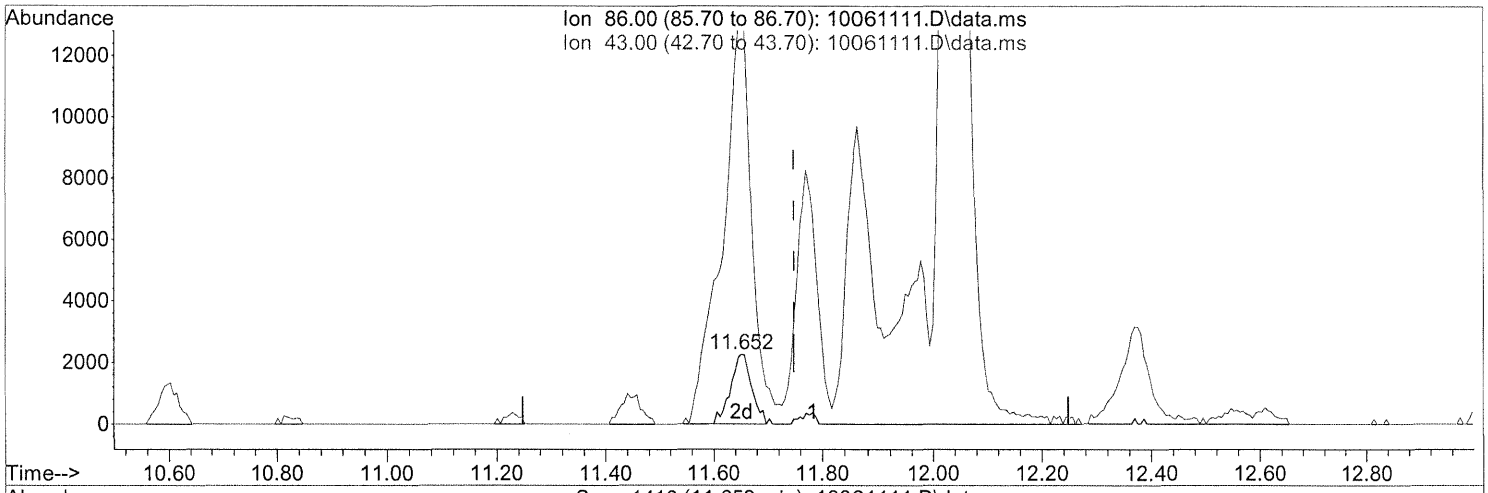
response 658

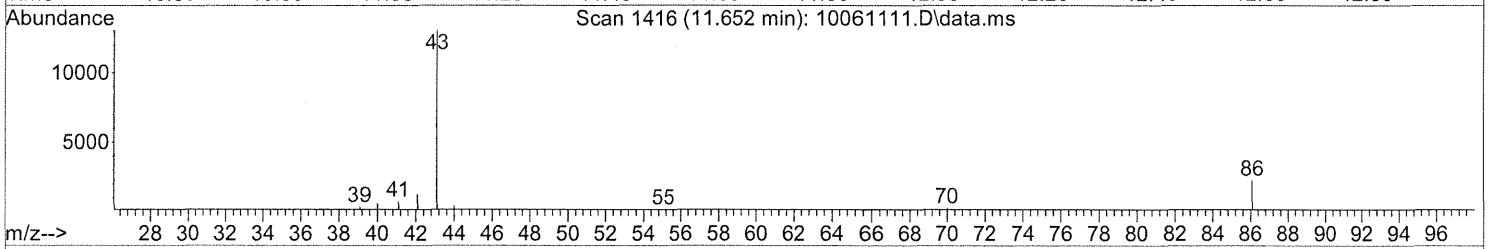
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	3211.70#
0.00	0.00	0.00
0.00	0.00	0.00

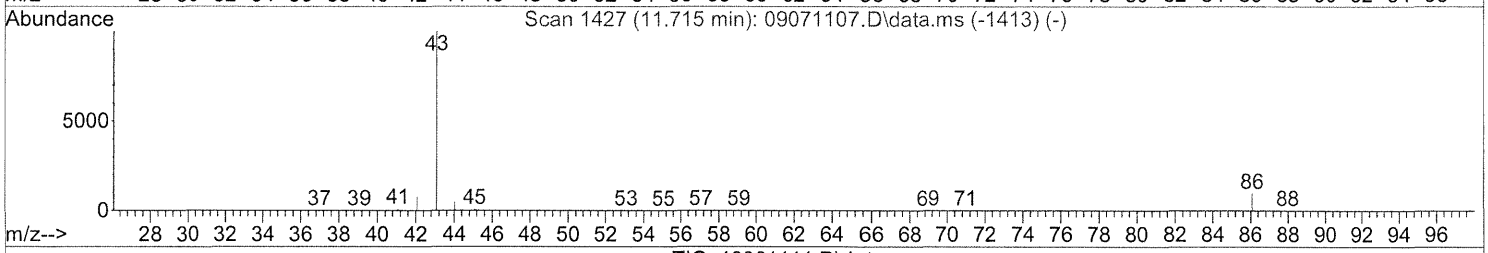
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 16:41
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061111.D\data.ms

(26) Vinyl Acetate (T)

11.652min (-0.097) 1.37ng m

response 6135

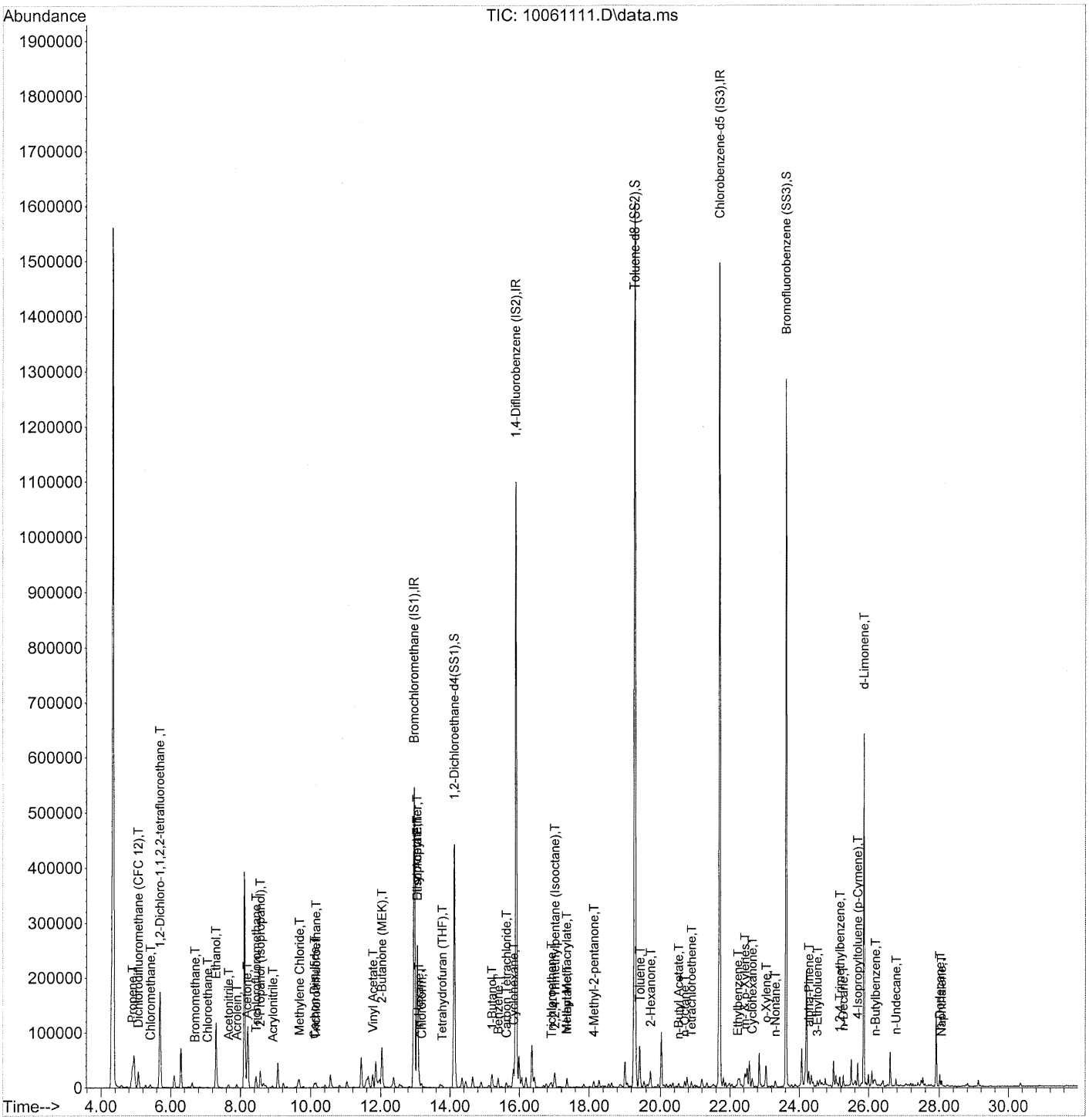
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	344.47#
0.00	0.00	0.00
0.00	0.00	0.00

WP
Tom 10/7/11
10/7/11

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 4:41 pm
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 4:41 pm
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	286771	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1290362	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	615766	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	424409	24.761	ng		-0.02
Spiked Amount 25.000			Recovery = 99.04%				
57) Toluene-d8 (SS2)	19.29	98	1429339	24.976	ng		-0.02
Spiked Amount 25.000			Recovery = 99.92%				
73) Bromofluorobenzene (SS3)	23.62	174	508857	25.204	ng		-0.01
Spiked Amount 25.000			Recovery = 100.80%				
Target Compounds							Qvalue
2) Propene	4.90	42	23517	1.024	ng	#	33
3) Dichlorodifluoromethan...	5.07	85	42564	1.500	ng		98
4) Chloromethane	5.42	50	6107	0.257	ng		98
5) 1,2-Dichloro-1,1,2,2-t...	5.69	135	964	0.062	ng	#	43
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.20	54	702	N.D.			
8) Bromomethane	6.70	94	880	0.068	ng		93
9) Chloroethane	7.05	64	1267	0.099	ng		97
10) Ethanol	7.30	45	168268	12.676	ng		99
11) Acetonitrile	7.66	41	7015	0.228	ng		90
12) Acrolein	7.90	56	7389	0.736	ng		96
13) Acetone	8.19	58	24461	1.926	ng	#	1
14) Trichlorofluoromethane	8.45	101	23204	0.909	ng		99
15) 2-Propanol (Isopropanol)	8.56	45	53102	1.487	ng		93
16) Acrylonitrile	8.92	53	1682	0.082	ng		83
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.58	59	2153	N.D.			
19) Methylene Chloride	9.68	84	7513	0.477	ng		85
20) 3-Chloro-1-propene (Al...	9.79	41	536	N.D.			
21) Trichlorotrifluoroethane	10.15	151	4617	0.348	ng		91
22) Carbon Disulfide	10.11	76	15250	0.279	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	11.59	73	853	N.D.			
26) Vinyl Acetate	11.78	86	658	0.147	ng	#	1
27) 2-Butanone (MEK)	12.03	72	30244	2.762	ng	#	47
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.05	87	1384	0.102	ng	#	1
30) Ethyl Acetate	13.05	61	56470	9.513	ng		83
31) n-Hexane	13.10	57	12073	0.394	ng	#	94

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 4:41 pm
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.17	83	7798	0.337 ng		95
34) Tetrahydrofuran (THF)	13.78	72	1265	0.124 ng	#	49
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.29	62	561	N.D.		
38) 1,1,1-Trichloroethane	14.70	97	513	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.21	56	20765	1.105 ng	#	67
41) Benzene	15.40	78	20601	0.340 ng		99
42) Carbon Tetrachloride	15.63	117	7255	0.386 ng		98
43) Cyclohexane	15.84	84	19677	0.747 ng		92
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.84	83	52	N.D.		
47) Trichloroethene	16.92	130	1706	0.097 ng		99
48) 1,4-Dioxane	16.90	88	307	N.D.		
49) 2,2,4-Trimethylpentane...	17.02	57	30275	0.405 ng		97
50) Methyl Methacrylate	17.36	100	1657	0.231 ng	#	1
51) n-Heptane	17.36	71	5164	0.287 ng		91
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.14	58	3053	0.198 ng	#	63
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.43	91	68362	1.033 ng		99
59) 2-Hexanone	19.72	43	29216	0.793 ng		82
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.52	43	6444	0.149 ng		100
63) n-Octane	20.70	57	1935	0.129 ng	#	74
64) Tetrachloroethene	20.90	166	4290	0.207 ng		98
65) Chlorobenzene	21.76	112	171	N.D.		
66) Ethylbenzene	22.23	91	10986	0.152 ng		99
67) m- & p-Xylenes	22.44	91	24112	0.418 ng		93
68) Bromoform	22.56	173	122	N.D.		
69) Styrene	22.91	104	2206	N.D.		
70) o-Xylene	23.05	91	9282	0.153 ng		100
71) n-Nonane	23.31	43	6612	0.167 ng	#	74
72) 1,1,2,2-Tetrachloroethane	23.04	83	1191	N.D.		
74) Cumene	23.79	105	764	N.D.		
75) alpha-Pinene	24.28	93	13238	0.338 ng		92
76) n-Propylbenzene	24.40	91	2613	N.D.		
77) 3-Ethyltoluene	24.53	105	7299	0.095 ng		98
78) 4-Ethyltoluene	24.58	105	3747	N.D.		
79) 1,3,5-Trimethylbenzene	24.67	105	3048	N.D.		

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061111.D
Acq On : 6 Oct 2011 4:41 pm
Operator : EM/CR
Sample : P1103662-005 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:45:51 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

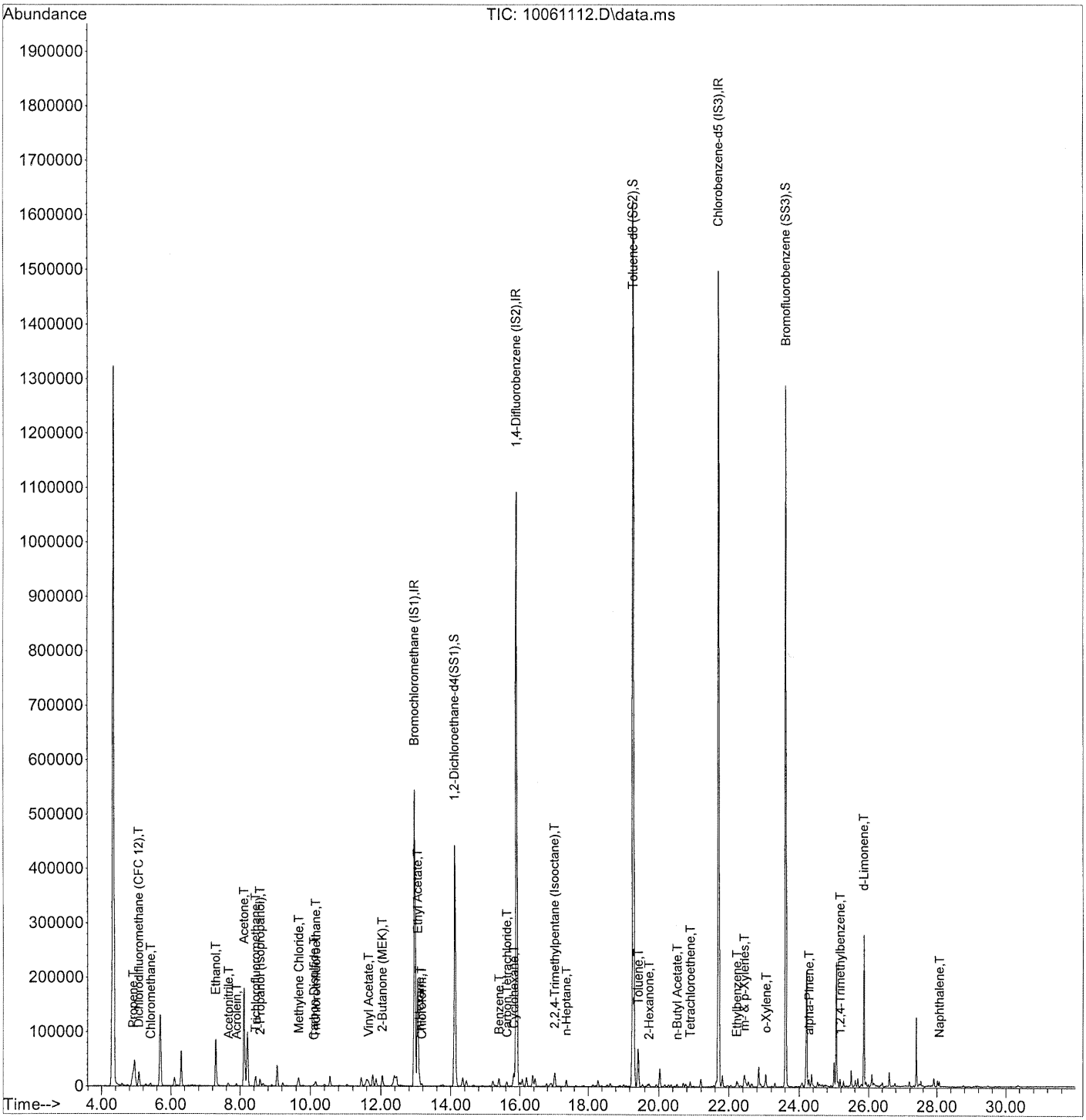
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.86	118	60	N.D.		
81) 2-Ethyltoluene	24.92	105	2714	N.D.		
82) 1,2,4-Trimethylbenzene	25.18	105	8967	0.140 ng		99
83) n-Decane	25.27	57	8100	0.206 ng		94
84) Benzyl Chloride	25.34	91	575	N.D.		
85) 1,3-Dichlorobenzene	25.37	146	316	N.D.		
86) 1,4-Dichlorobenzene	25.45	146	1291	N.D.		
87) sec-Butylbenzene	25.51	105	509	N.D.		
88) 4-Isopropyltoluene (p-...	25.68	119	23537	0.278 ng		84
89) 1,2,3-Trimethylbenzene	25.69	105	3588	N.D.		
90) 1,2-Dichlorobenzene	25.86	146	141	N.D.		
91) d-Limonene	25.86	68	171810	6.766 ng		96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.77	57	3805	0.099 ng		86
94) 1,2,4-Trichlorobenzene	27.92	180	672	N.D.		
95) Naphthalene	28.07	128	9045	0.096 ng		92
96) n-Dodecane	28.02	57	7607	0.215 ng		90
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.65	55	8794	0.364 ng		93
99) tert-Butylbenzene	25.18	119	1284	N.D.		
100) n-Butylbenzene	26.19	91	10299	0.157 ng	#	42

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 10:45:20 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 10:45:20 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	286714	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1297197	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	615430	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	427650	24.956	ng		-0.03 ✓
Spiked Amount 25.000			Recovery = 99.84%				
57) Toluene-d8 (SS2)	19.30	98	1433692	25.066	ng		-0.01 ✓
Spiked Amount 25.000			Recovery = 100.28%				
73) Bromofluorobenzene (SS3)	23.62	174	512267	25.386	ng		0.00 ✓
Spiked Amount 25.000			Recovery = 101.56%				
Target Compounds							Qvalue
2) Propene	4.90	42	11410m	0.497	ng		
3) Dichlorodifluoromethan...	5.07	85	40100	1.413	ng		99
4) Chloromethane	5.42	50	5143	0.216	ng		95
10) Ethanol	7.29	45	120374m	9.070	ng		
11) Acetonitrile	7.66	41	6262	0.203	ng		90
12) Acrolein	7.90	56	4551	0.453	ng		99
13) Acetone	8.11	58	88056	6.935	ng		98
14) Trichlorofluoromethane	8.44	101	19715	0.773	ng		98
15) 2-Propanol (Isopropanol)	8.57	45	20804m	0.583	ng		
19) Methylene Chloride	9.67	84	7424	0.471	ng		85
21) Trichlorotrifluoroethane	10.16	151	4160	0.313	ng		94
22) Carbon Disulfide	10.10	76	5628	0.103	ng		91
26) Vinyl Acetate	11.65	86	2136m	0.478	ng		
27) 2-Butanone (MEK)	12.04	72	8134	0.743	ng	#	43
30) Ethyl Acetate	13.05	61	44345	7.472	ng	#	79
31) n-Hexane	13.11	57	9951	0.325	ng	#	95
32) Chloroform	13.17	83	4983	0.215	ng		99
41) Benzene	15.40	78	18185	0.298	ng		96
42) Carbon Tetrachloride	15.63	117	6744	0.357	ng		99
43) Cyclohexane	15.83	84	13630	0.515	ng		86
49) 2,2,4-Trimethylpentane...	17.02	57	27604	0.367	ng		98
51) n-Heptane	17.36	71	3370	0.186	ng		83
58) Toluene	19.42	91	65118	0.984	ng		100
59) 2-Hexanone	19.72	43	4887	0.133	ng		79
62) n-Butyl Acetate	20.53	43	4119	0.096	ng		96
64) Tetrachloroethene	20.90	166	3986	0.193	ng		94
66) Ethylbenzene	22.23	91	9467	0.131	ng		99
67) m- & p-Xylenes	22.44	91	20391	0.354	ng		96
70) o-Xylene	23.06	91	7638	0.126	ng		96
75) alpha-Pinene	24.28	93	6352	0.162	ng		96

EM 10/7/11

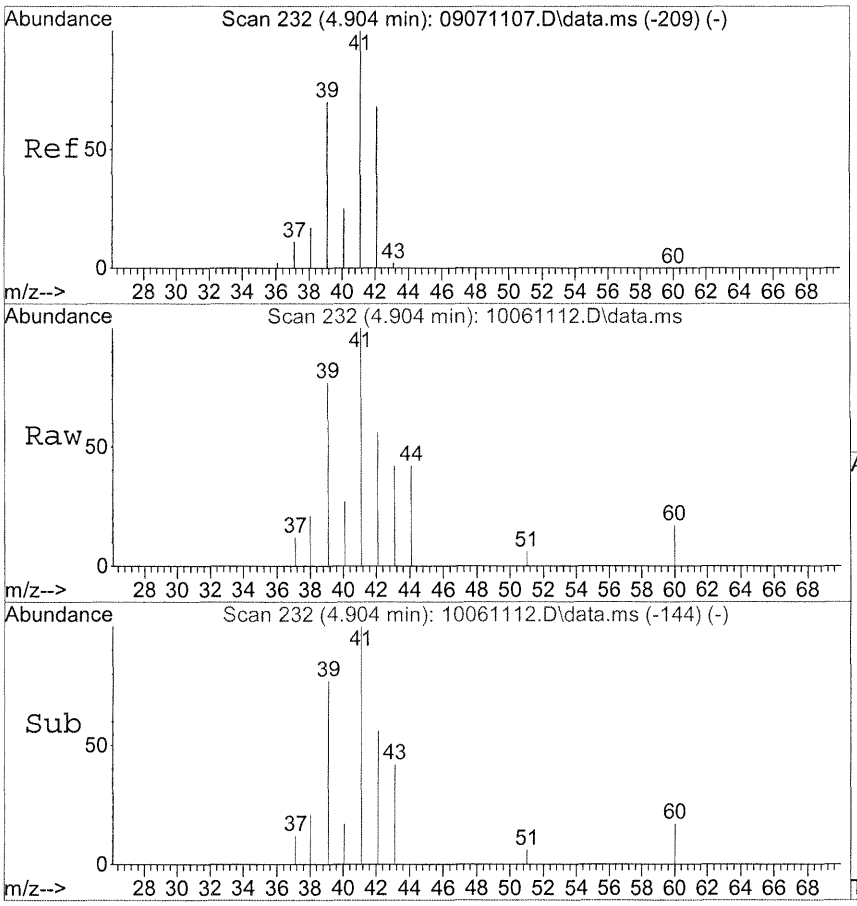
Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 10:45:20 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) 1,2,4-Trimethylbenzene	25.17	105	7920	0.124	ng	98
91) d-Limonene	25.86	68	76137	3.000	ng	95
95) Naphthalene	28.07	128	9216	0.098	ng	97

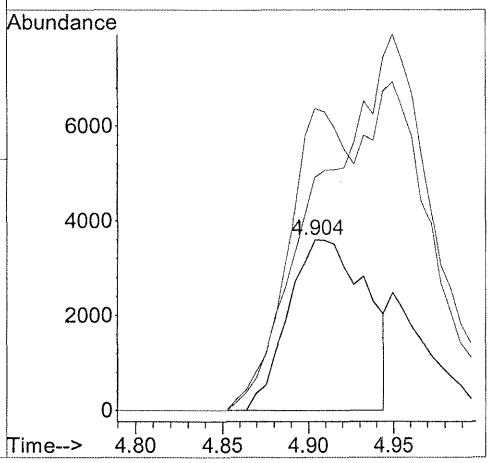
(#) = qualifier out of range (m) = manual integration (+) = signals summed

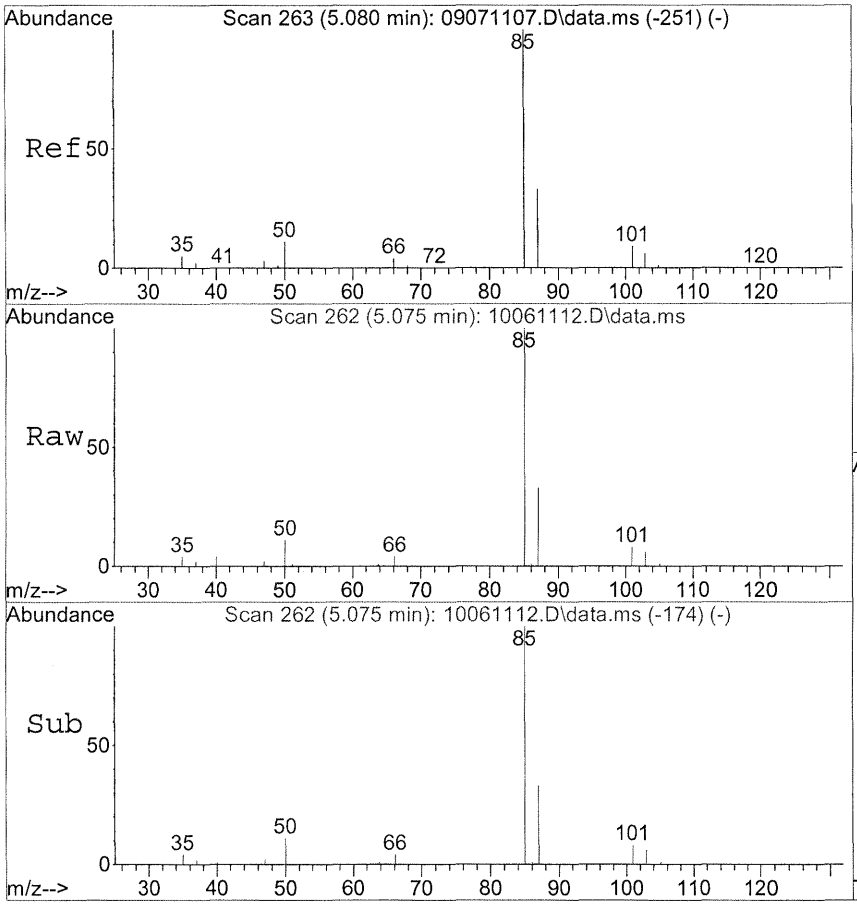


#2
Propene
Concen: 0.50 ng m
RT: 4.90 min Scan# 232
Delta R.T. -0.000 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 42 Resp: 11410

Ion	Ratio	Lower	Upper
42	100		
39	0.0	88.8	128.8#
41	0.0	126.1	166.1#

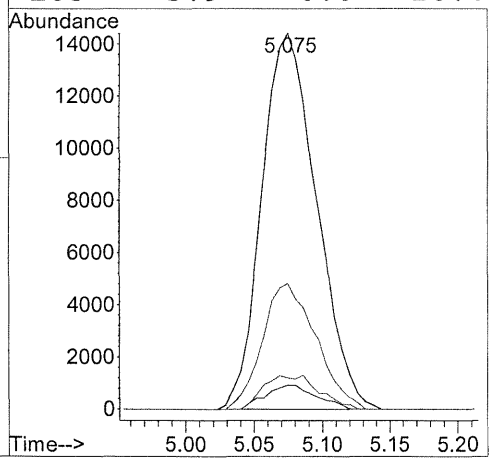


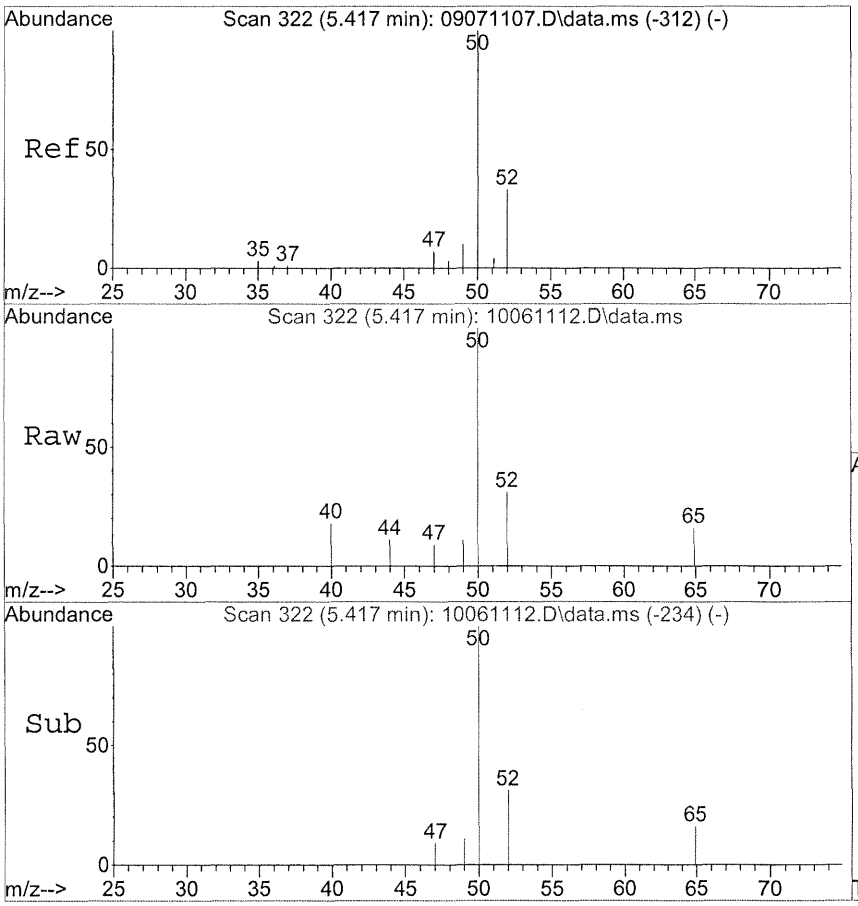


#3
Dichlorodifluoromethane (CFC
Concen: 1.41 ng
RT: 5.07 min Scan# 262
Delta R.T. -0.000 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 85 Resp: 40100

Ion	Ratio	Lower	Upper
85	100		
87	32.5	13.0	53.0
101	9.0	0.0	29.1
103	5.9	0.0	26.0

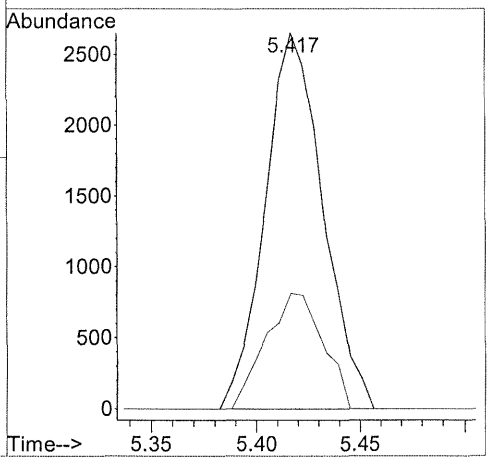


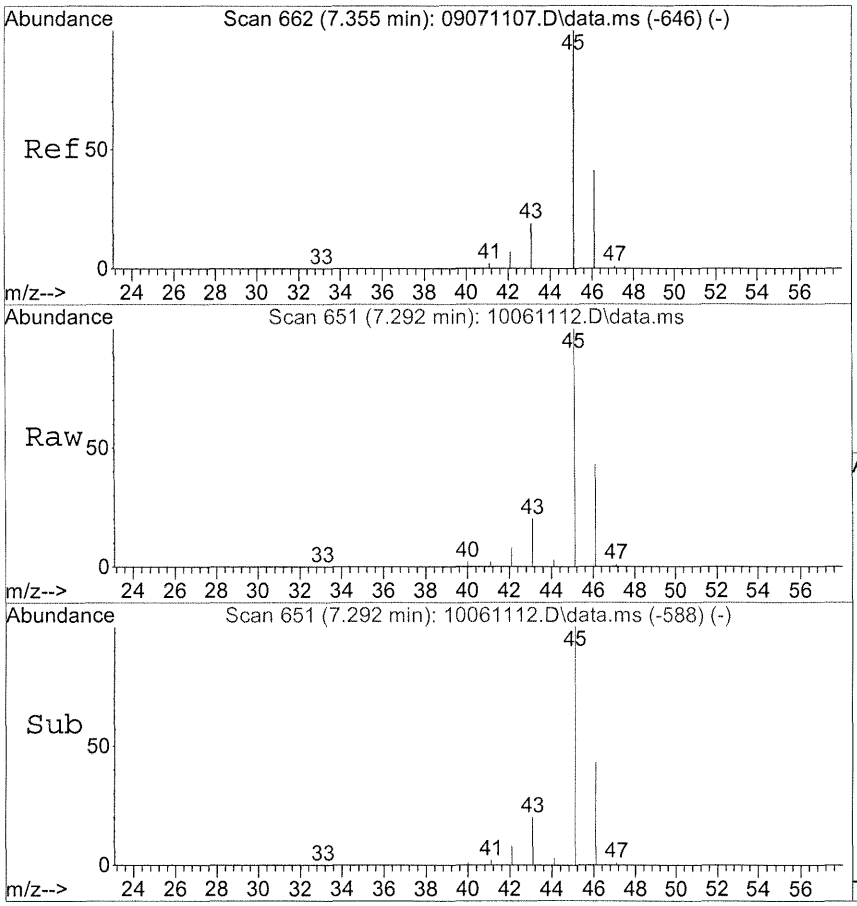


#4
Chloromethane
Concen: 0.22 ng
RT: 5.42 min Scan# 322
Delta R.T. -0.000 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 50 Resp: 5143

Ion	Ratio	Lower	Upper
50	100		
52	30.3	13.1	53.1

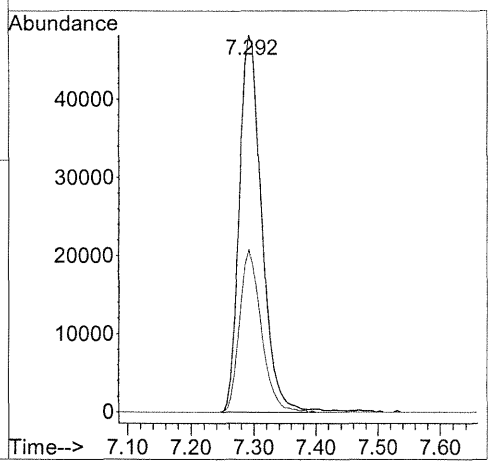


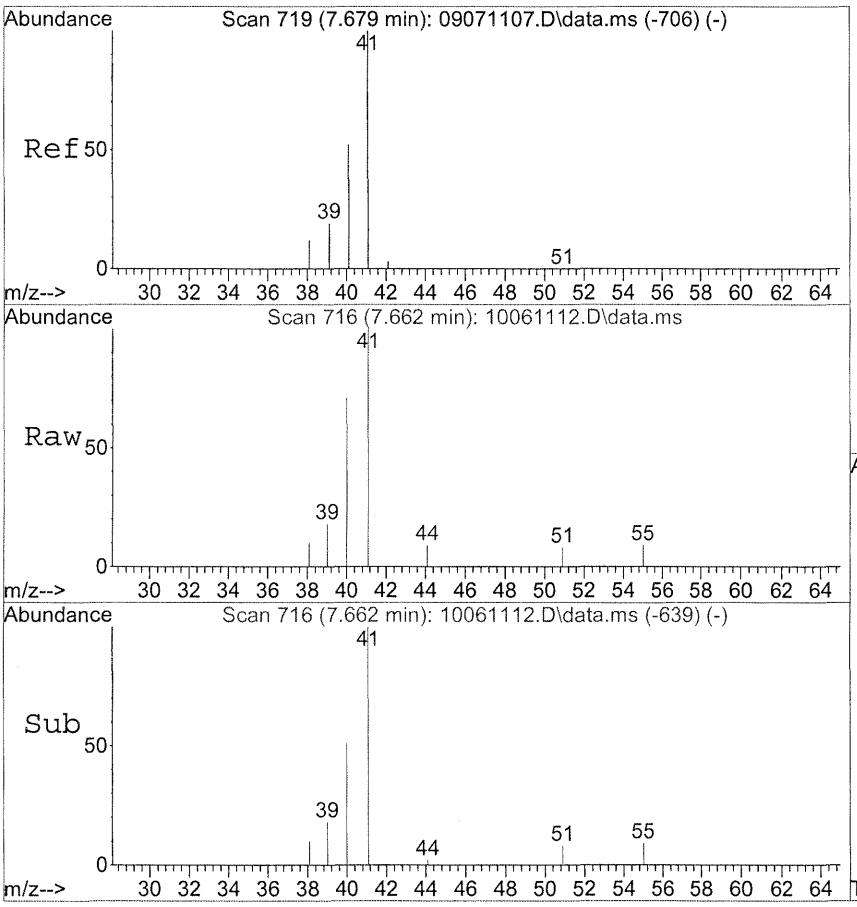


#10
Ethanol
Concen: 9.07 ng m
RT: 7.29 min Scan# 651
Delta R.T. -0.143 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 45 Resp: 120374

Ion	Ratio	Lower	Upper
45	100		
46	0.0	20.7	60.7#

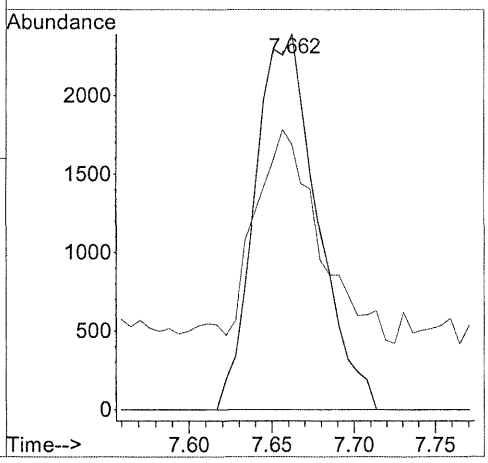


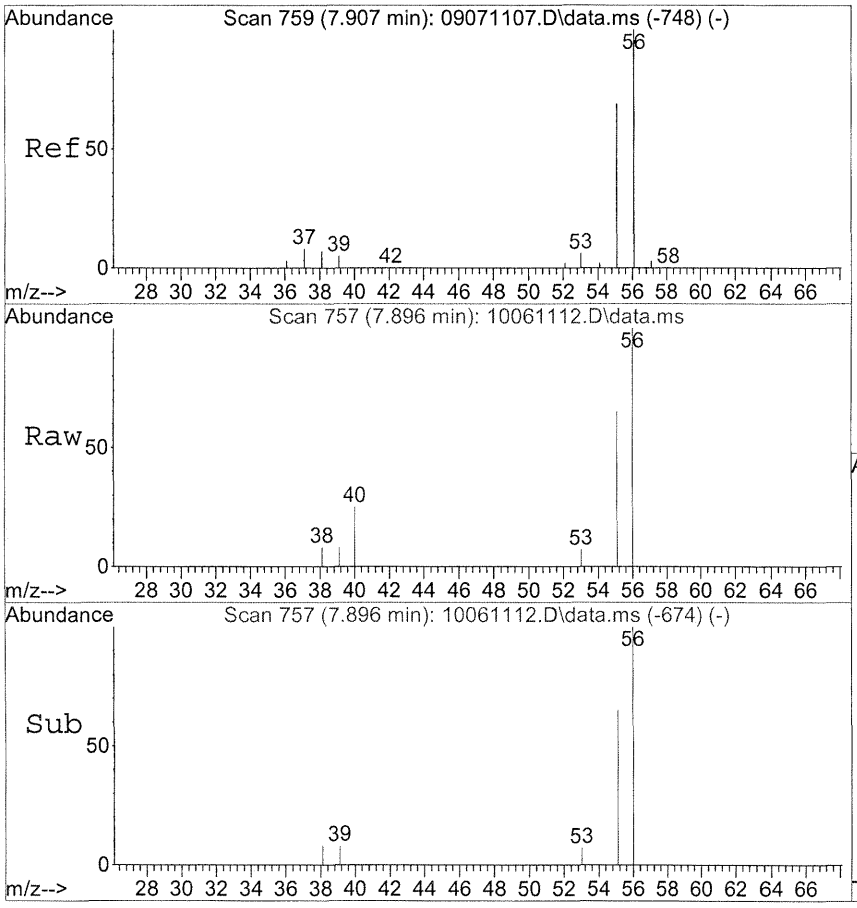


#11
Acetonitrile
Concen: 0.20 ng
RT: 7.66 min Scan# 716
Delta R.T. -0.063 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 41 Resp: 6262

Ion	Ratio	Lower	Upper
41	100		
40	58.8	31.5	71.5

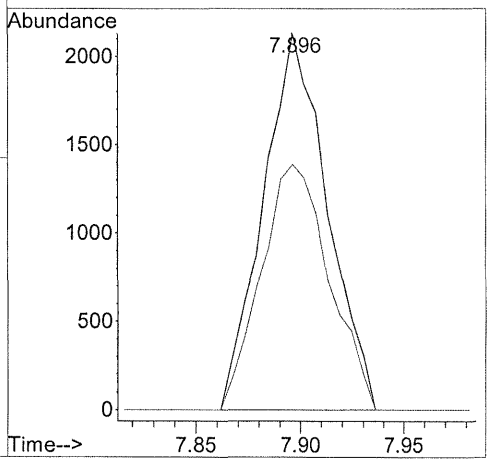


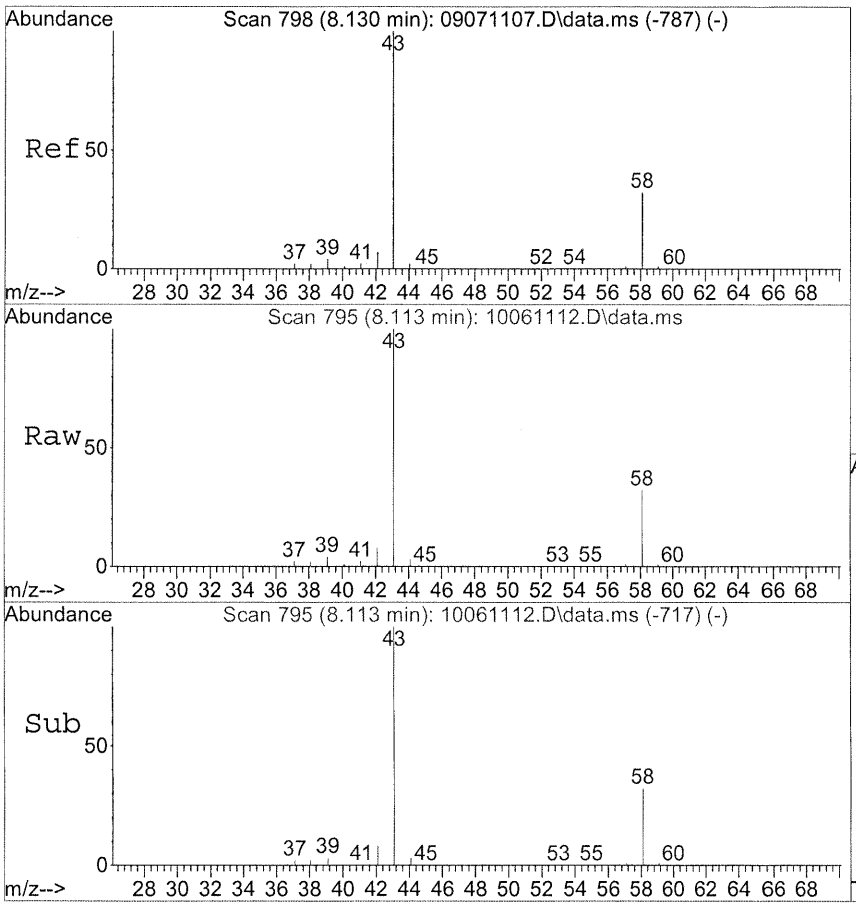


#12
Acrolein
Concen: 0.45 ng
RT: 7.90 min Scan# 757
Delta R.T. -0.029 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 56 Resp: 4551

Ion	Ratio	Lower	Upper
56	100		
55	69.3	50.1	90.1

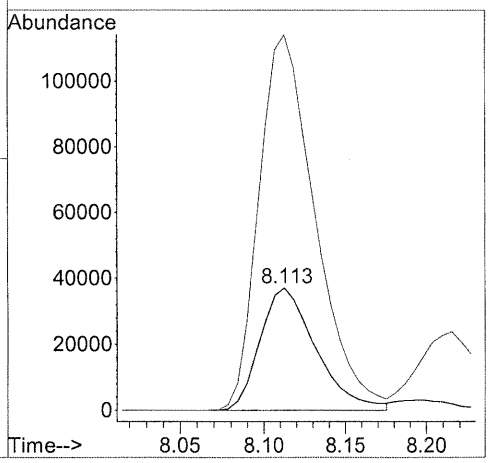


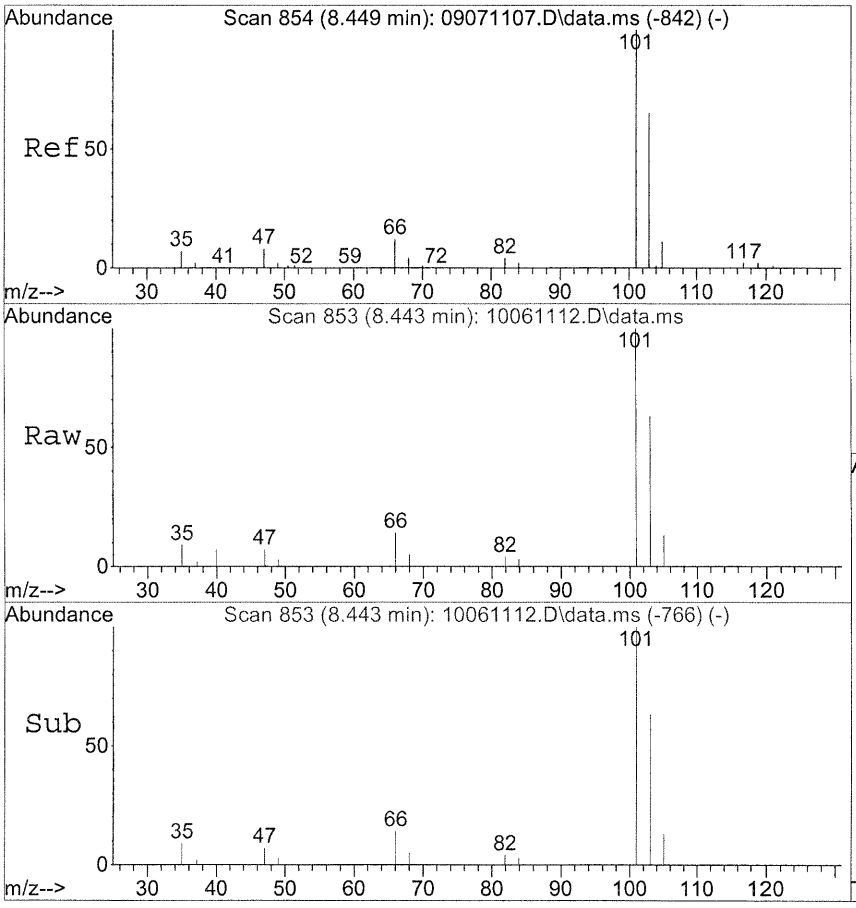


#13
Acetone
Concen: 6.93 ng
RT: 8.11 min Scan# 795
Delta R.T. -0.057 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 58 Resp: 88056

Ion	Ratio	Lower	Upper
58	100		
43	309.0	283.8	343.8

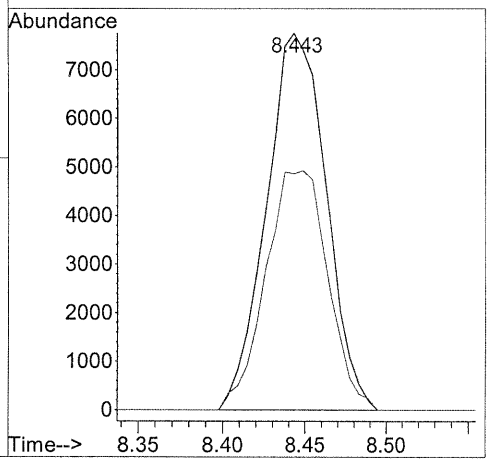


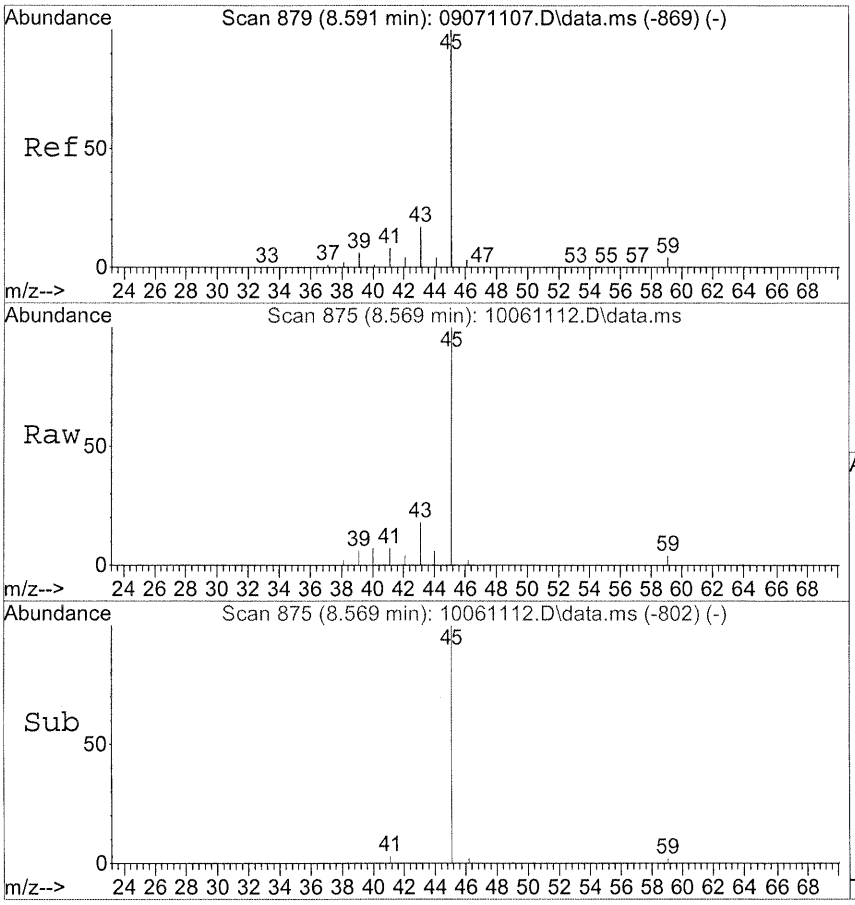


#14
Trichlorofluoromethane
Concen: 0.77 ng
RT: 8.44 min Scan# 853
Delta R.T. -0.006 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion:101 Resp: 19715

Ion	Ratio	Lower	Upper
101	100		
103	66.0	44.4	84.4

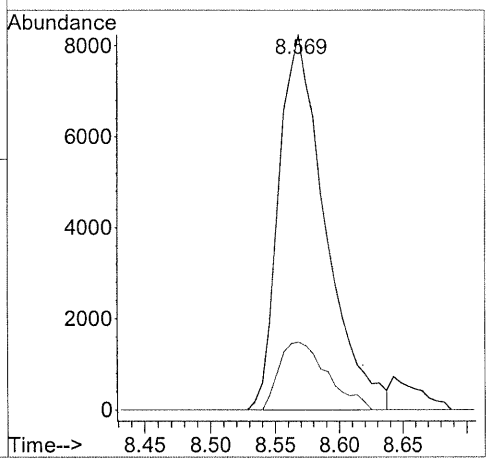


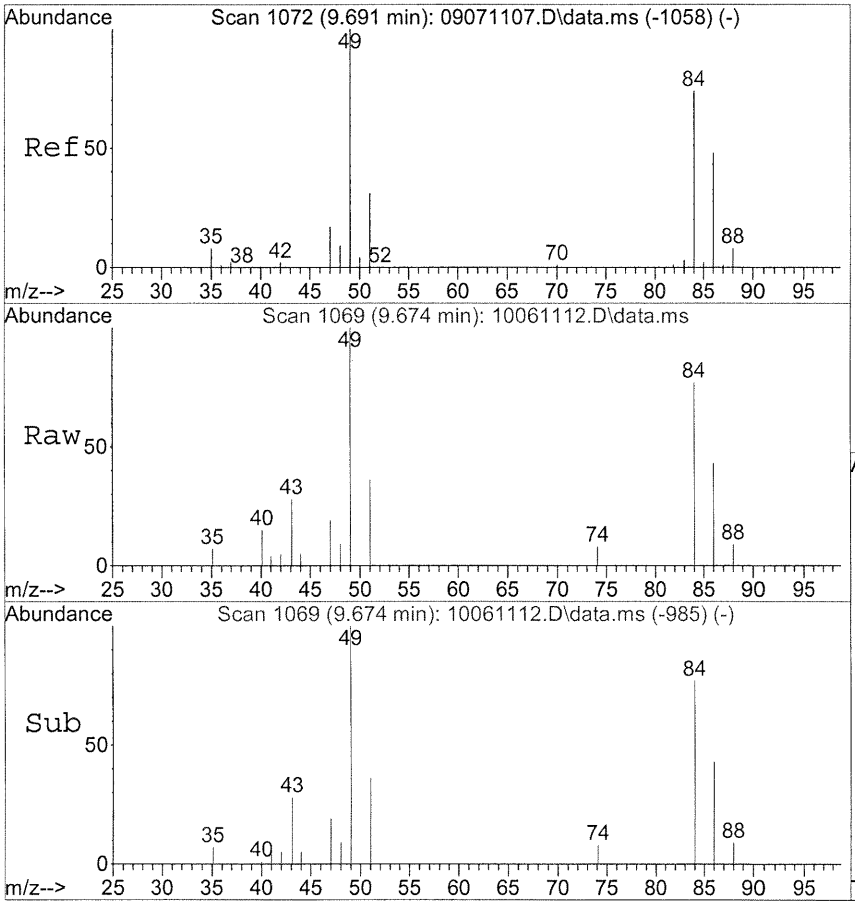


#15
2-Propanol (Isopropanol)
Concen: 0.58 ng m
RT: 8.57 min Scan# 875
Delta R.T. -0.085 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 45 Resp: 20804

Ion	Ratio	Lower	Upper
45	100		
43	0.0	1.4	41.4#

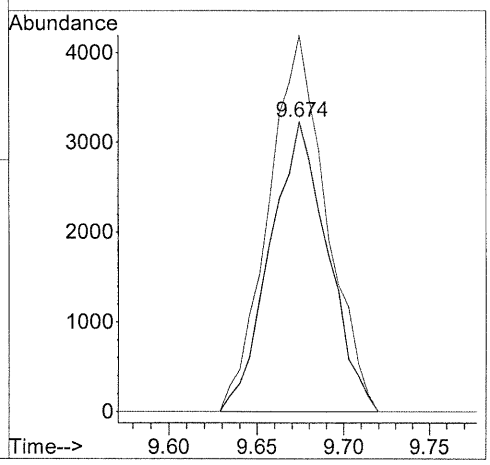


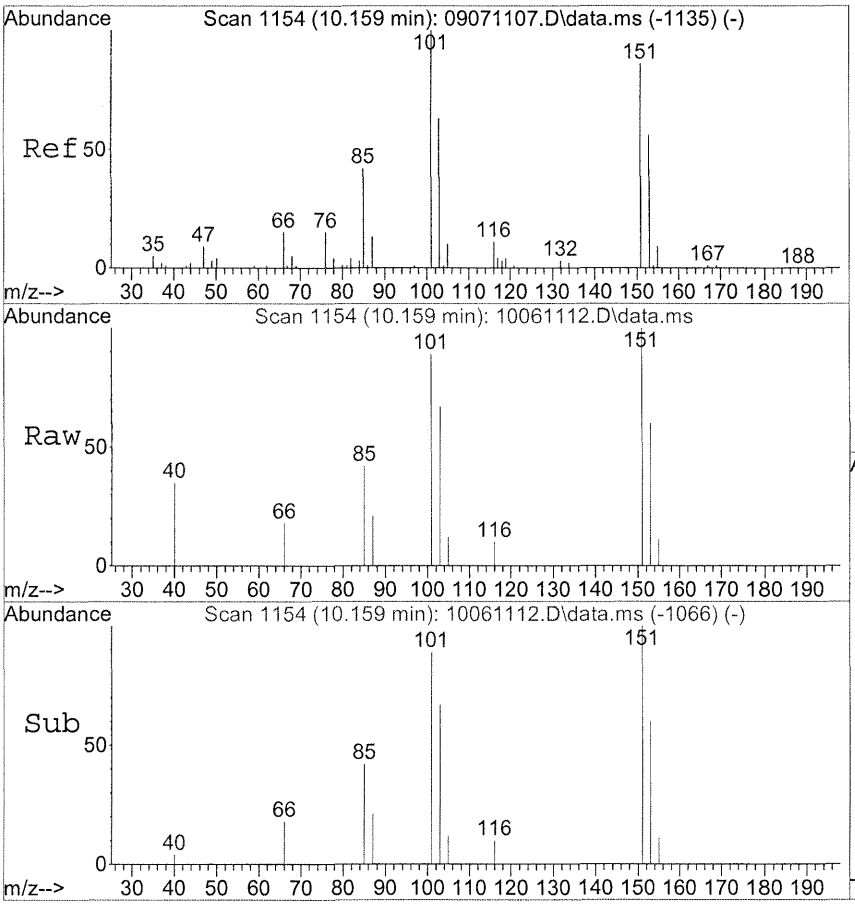


#19
Methylene Chloride
Concen: 0.47 ng
RT: 9.67 min Scan# 1069
Delta R.T. -0.023 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 84 Resp: 7424

Ion	Ratio	Lower	Upper
84	100		
49	131.3	90.4	140.4

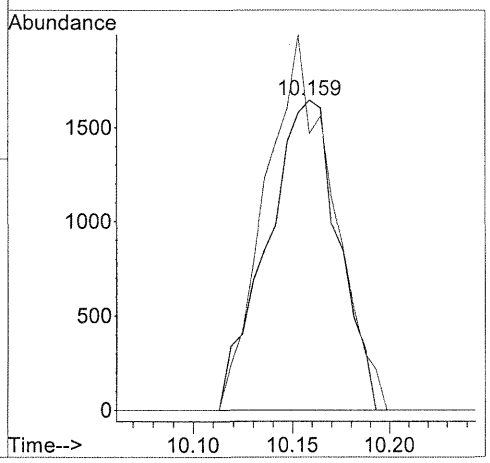


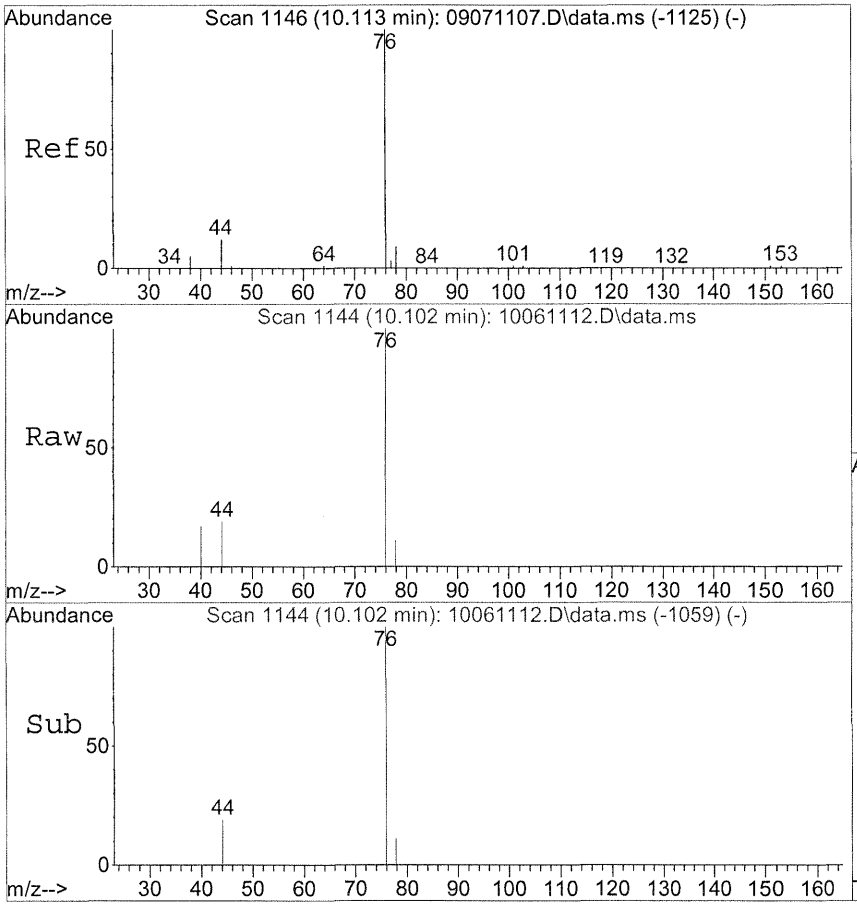


#21
Trichlorotrifluoroethane
Concen: 0.31 ng
RT: 10.16 min Scan# 1154
Delta R.T. -0.000 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion:151 Resp: 4160

Ion	Ratio	Lower	Upper
151	100		
101	113.1	99.7	139.7

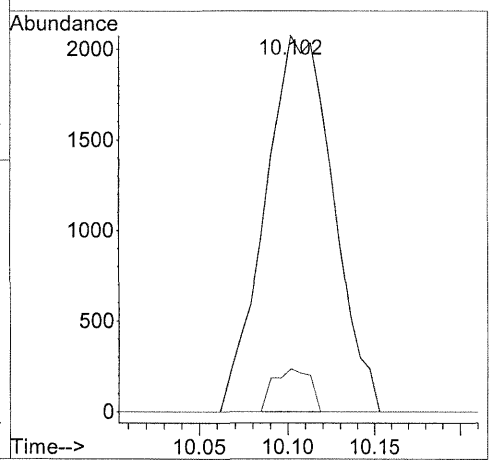


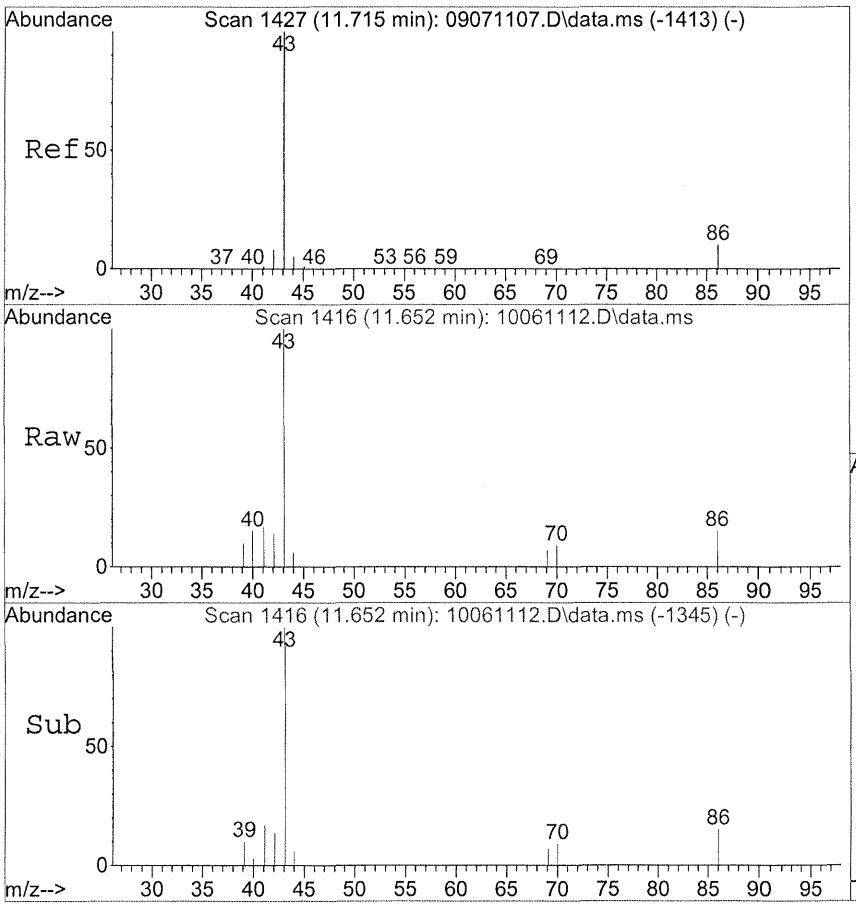


#22
Carbon Disulfide
Concen: 0.10 ng
RT: 10.10 min Scan# 1144
Delta R.T. -0.017 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 76 Resp: 5628

Ion	Ratio	Lower	Upper
76	100		
78	6.2	0.0	29.4

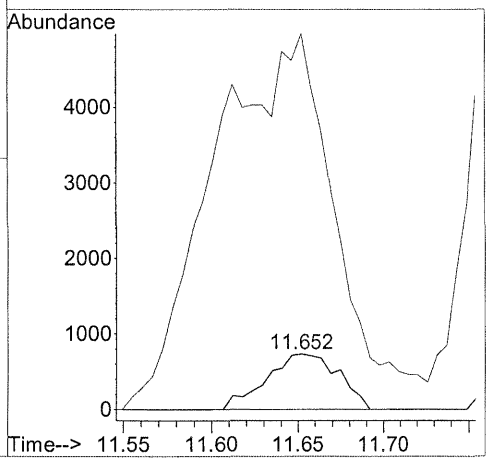


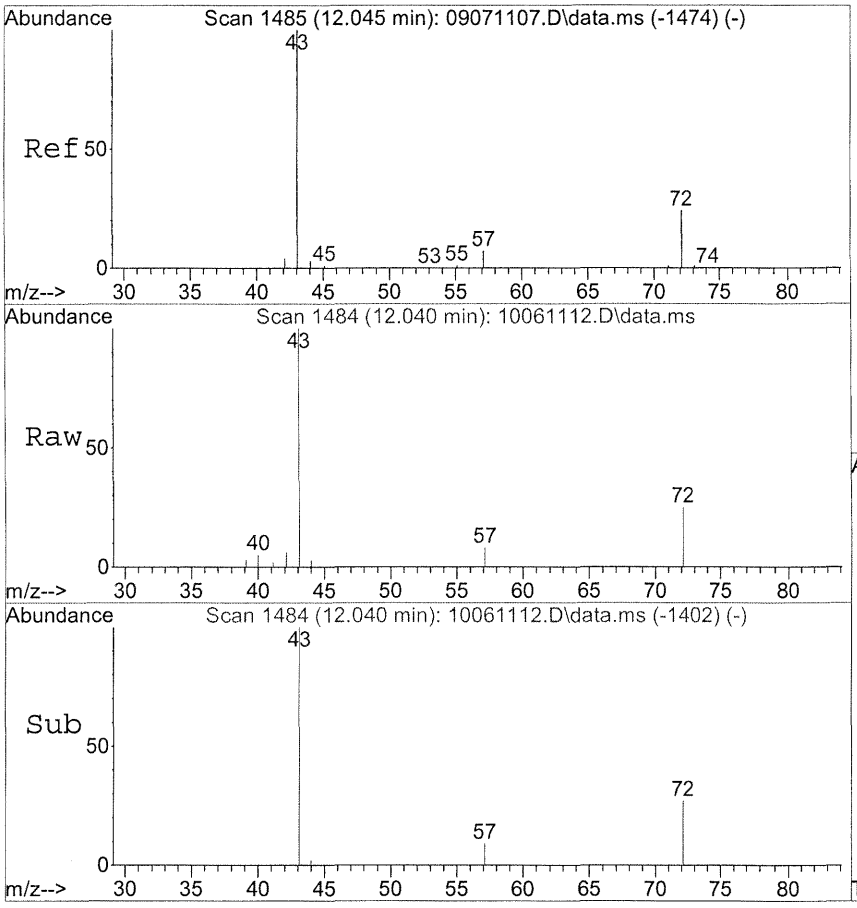


#26
Vinyl Acetate
Concen: 0.48 ng m
RT: 11.65 min Scan# 1416
Delta R.T. -0.097 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 86 Resp: 2136

Ion	Ratio	Lower	Upper
86	100		
43	889.4	825.7	865.7#

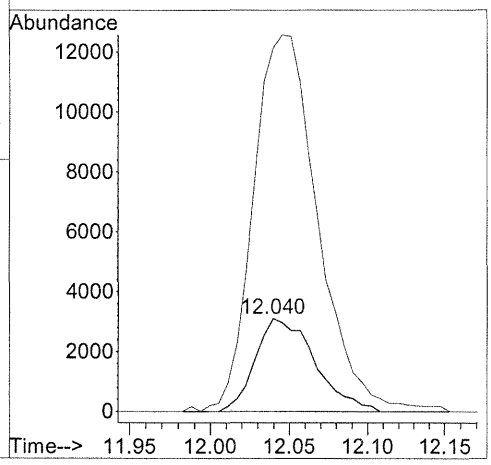


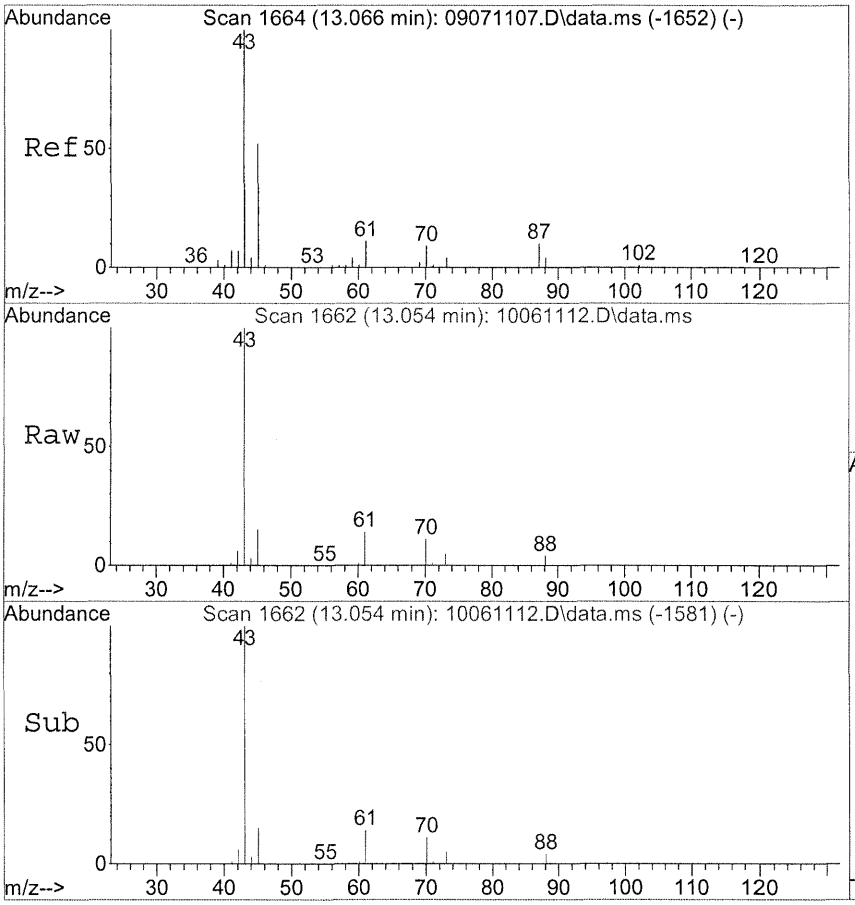


#27
2-Butanone (MEK)
Concen: 0.74 ng
RT: 12.04 min Scan# 1484
Delta R.T. -0.034 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 72 Resp: 8134

Ion	Ratio	Lower	Upper
72	100		
43	441.5	304.7	344.7#

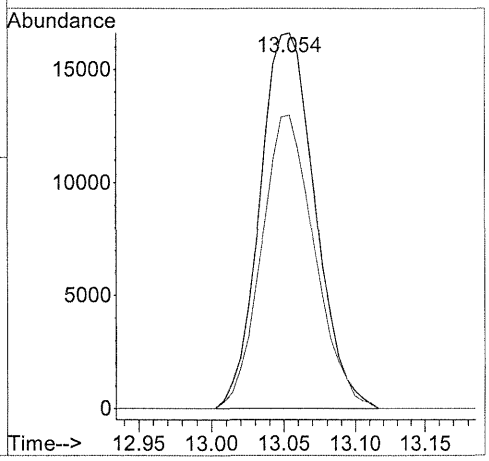


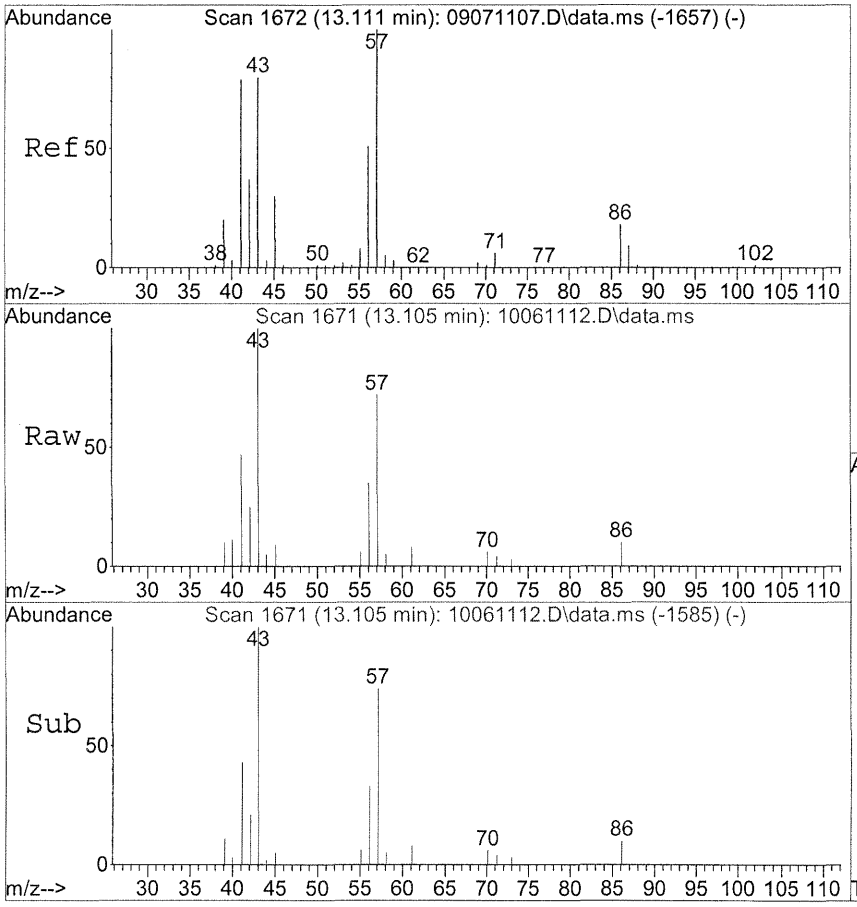


#30
Ethyl Acetate
Concen: 7.47 ng
RT: 13.05 min Scan# 1662
Delta R.T. -0.040 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 61 Resp: 44345

Ion	Ratio	Lower	Upper
61	100		
70	75.3	75.3	115.3#

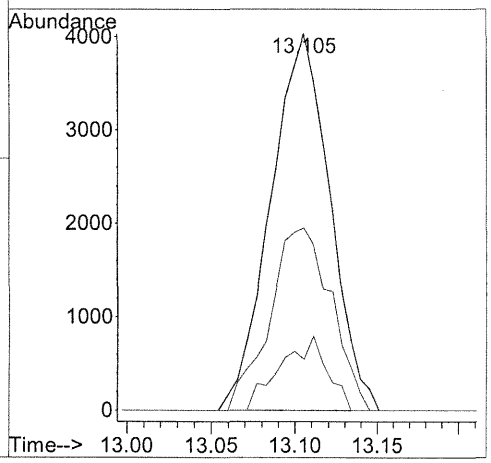


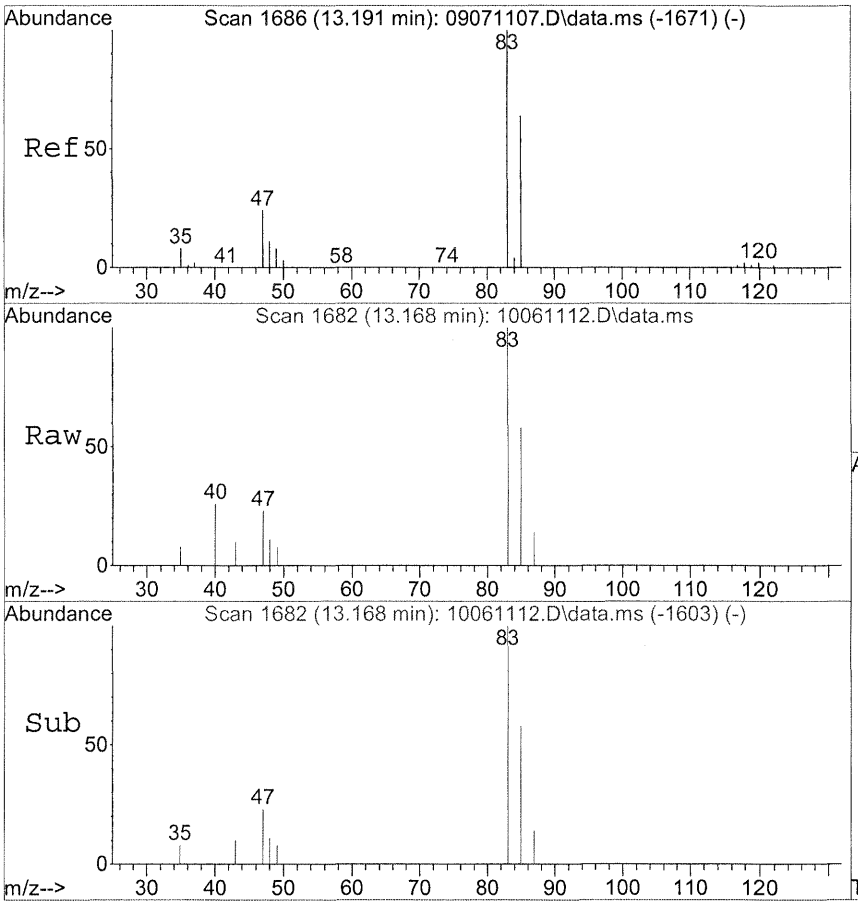


#31
n-Hexane
Concen: 0.33 ng
RT: 13.11 min Scan# 1671
Delta R.T. -0.012 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 57 Resp: 9951

Ion	Ratio	Lower	Upper
57	100		
56	50.4	41.8	62.8
86	15.5	17.0	25.4#

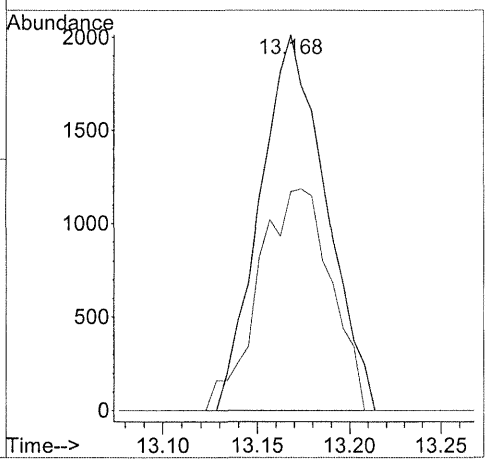


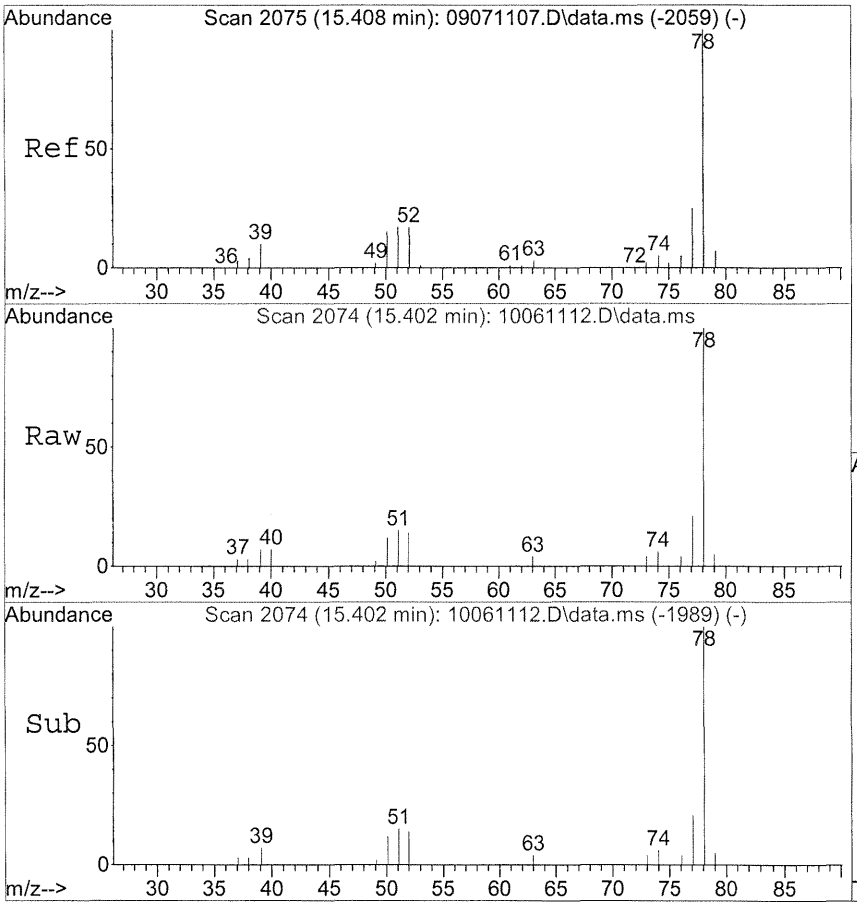


#32
Chloroform
Concen: 0.22 ng
RT: 13.17 min Scan# 1682
Delta R.T. -0.052 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 83 Resp: 4983

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.3	85.3

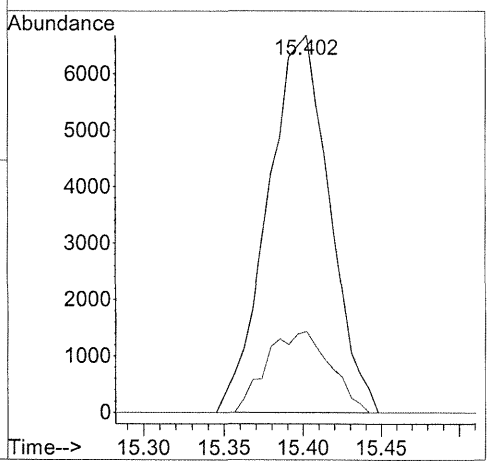


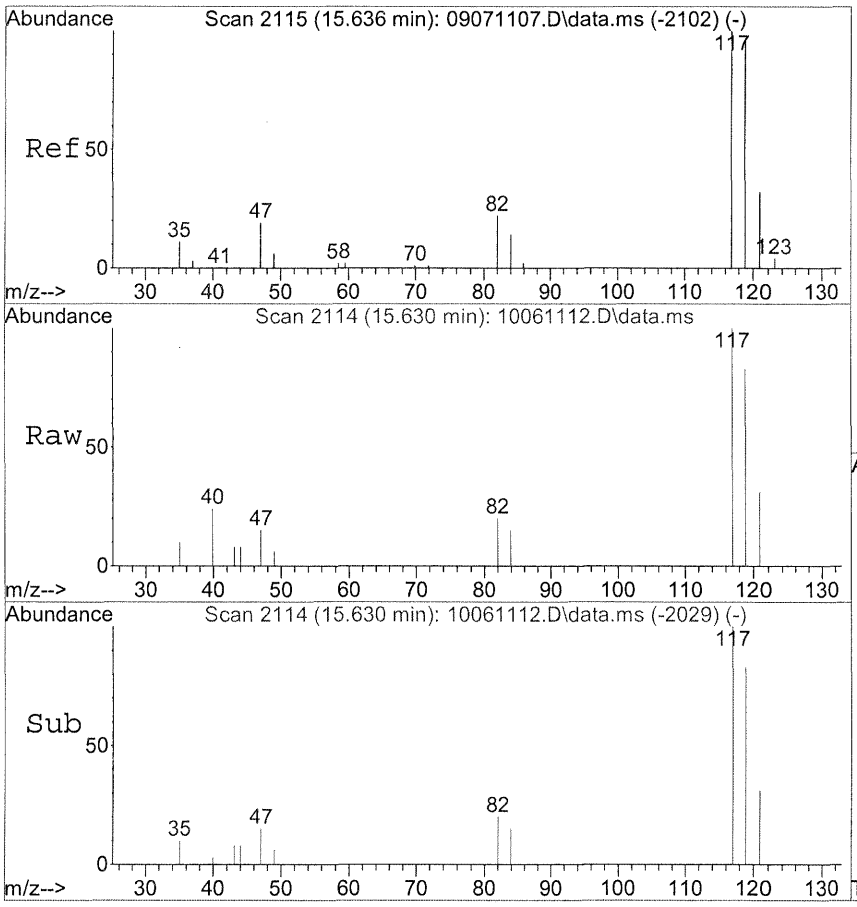


#41
Benzene
Concen: 0.30 ng
RT: 15.40 min Scan# 2074
Delta R.T. -0.017 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 78 Resp: 18185

Ion	Ratio	Lower	Upper
78	100		
77	22.2	4.0	44.0

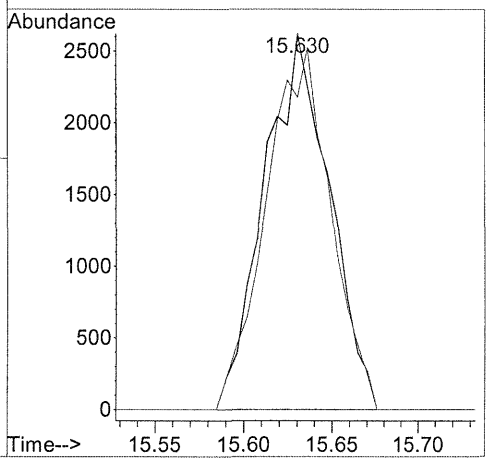


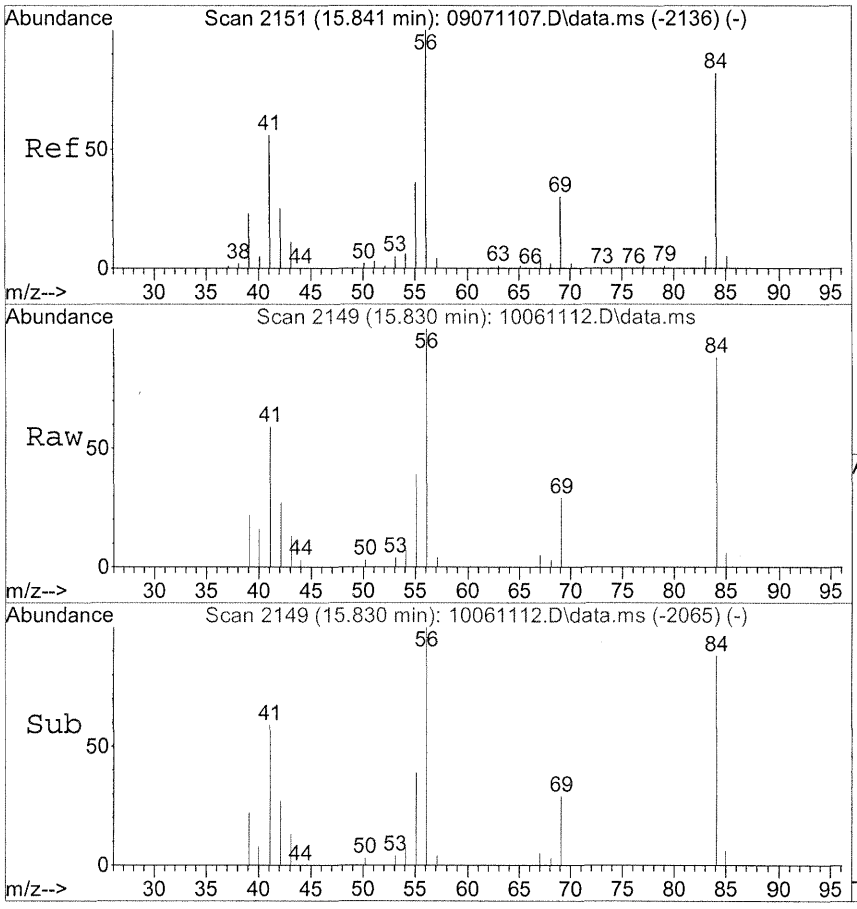


#42
Carbon Tetrachloride
Concen: 0.36 ng
RT: 15.63 min Scan# 2114
Delta R.T. -0.017 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion:117 Resp: 6744

Ion	Ratio	Lower	Upper
117	100		
119	95.7	77.0	117.0

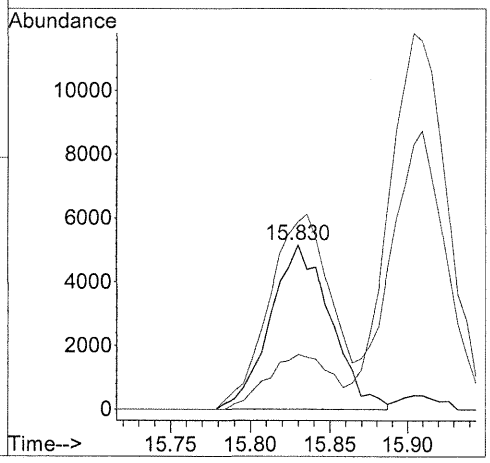


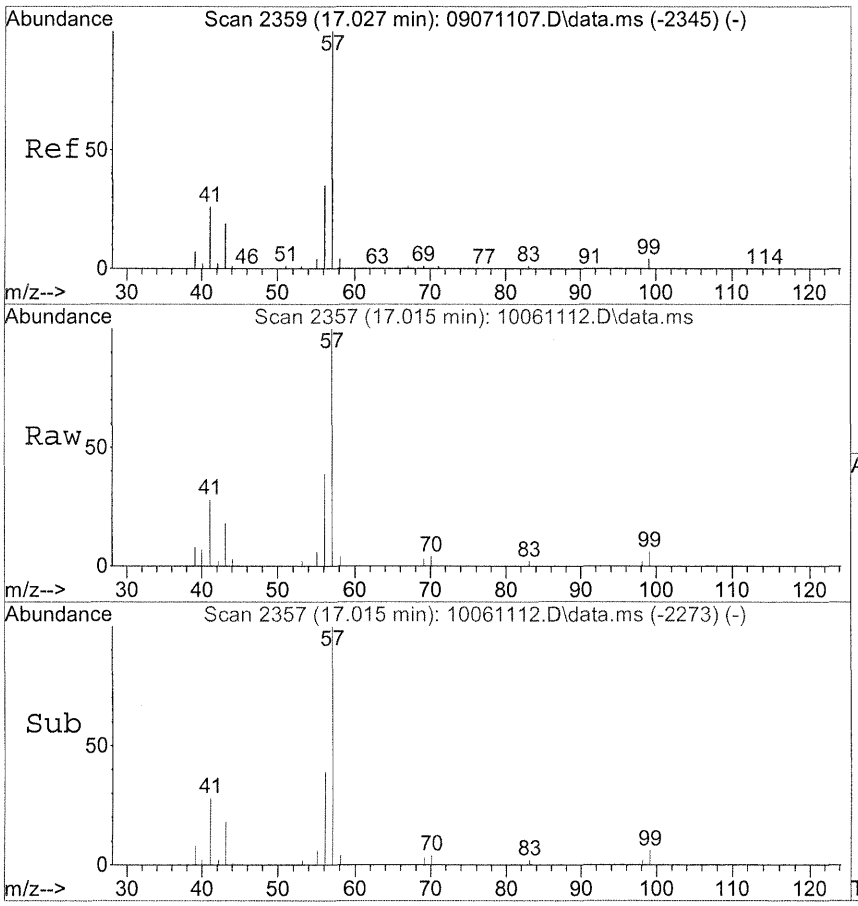


#43
Cyclohexane
Concen: 0.51 ng
RT: 15.83 min Scan# 2149
Delta R.T. -0.023 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 84 Resp: 13630

Ion	Ratio	Lower	Upper
84	100		
69	34.5	16.9	56.9
56	125.2	87.7	127.7

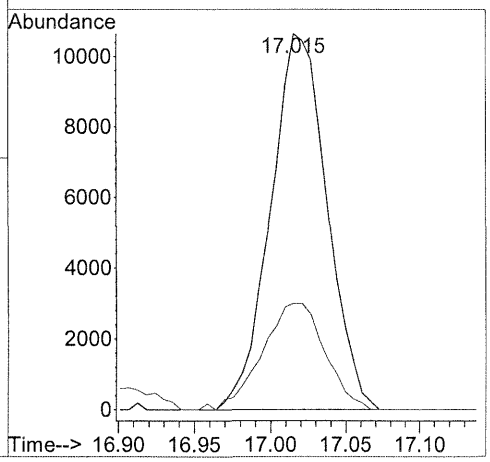


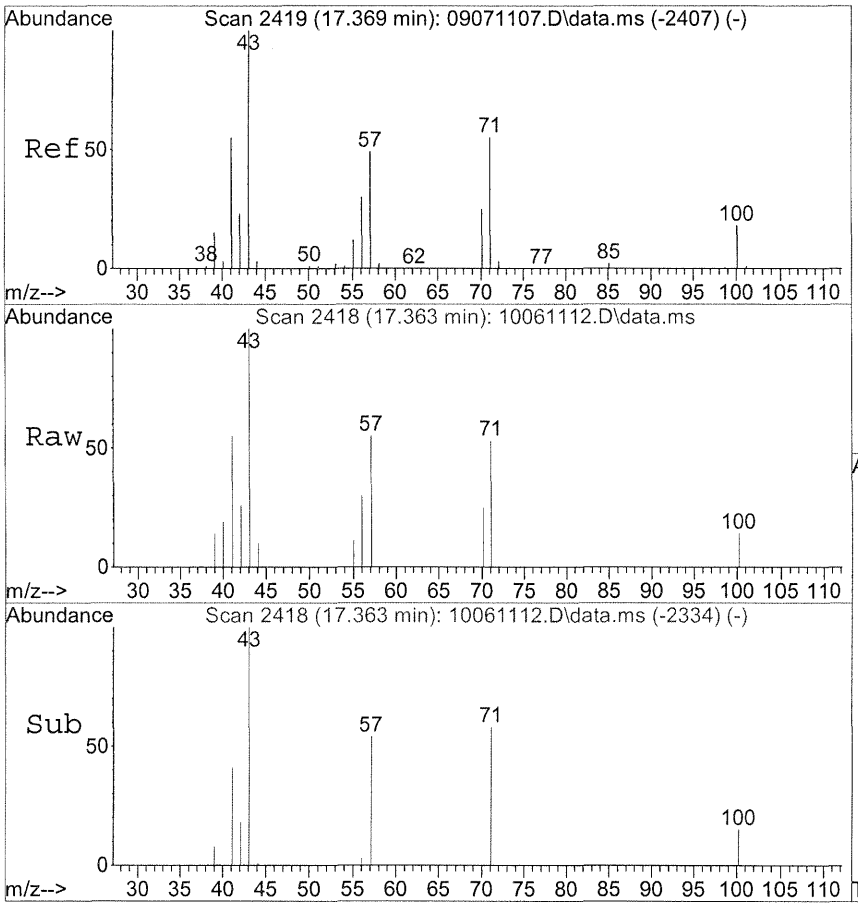


#49
2,2,4-Trimethylpentane (Isooc
Concen: 0.37 ng
RT: 17.02 min Scan# 2357
Delta R.T. -0.023 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 57 Resp: 27604

Ion	Ratio	Lower	Upper
57	100		
41	31.2	10.2	50.2

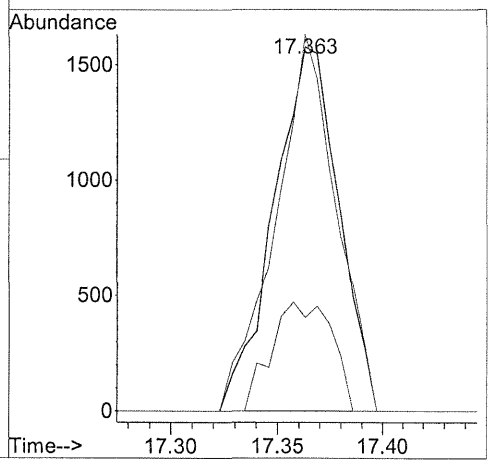


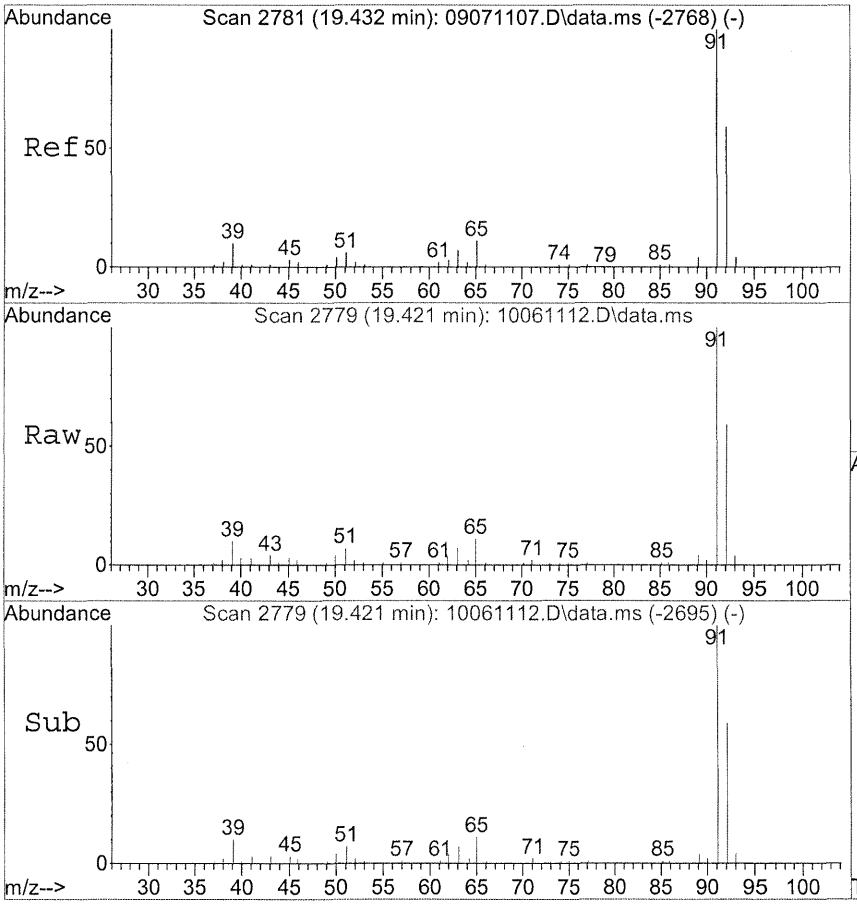


#51
n-Heptane
Concen: 0.19 ng
RT: 17.36 min Scan# 2418
Delta R.T. -0.023 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 71 Resp: 3370

Ion	Ratio	Lower	Upper
71	100		
57	96.7	59.7	99.7
100	27.8	15.2	55.2

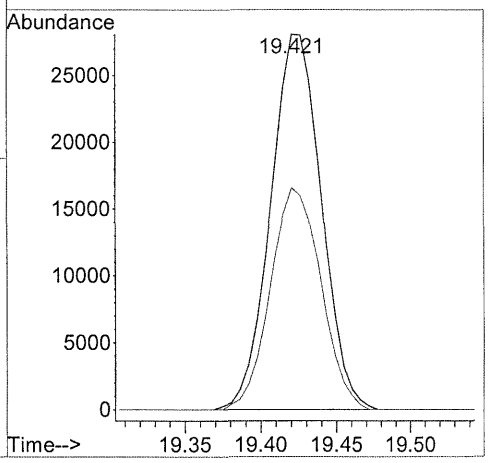


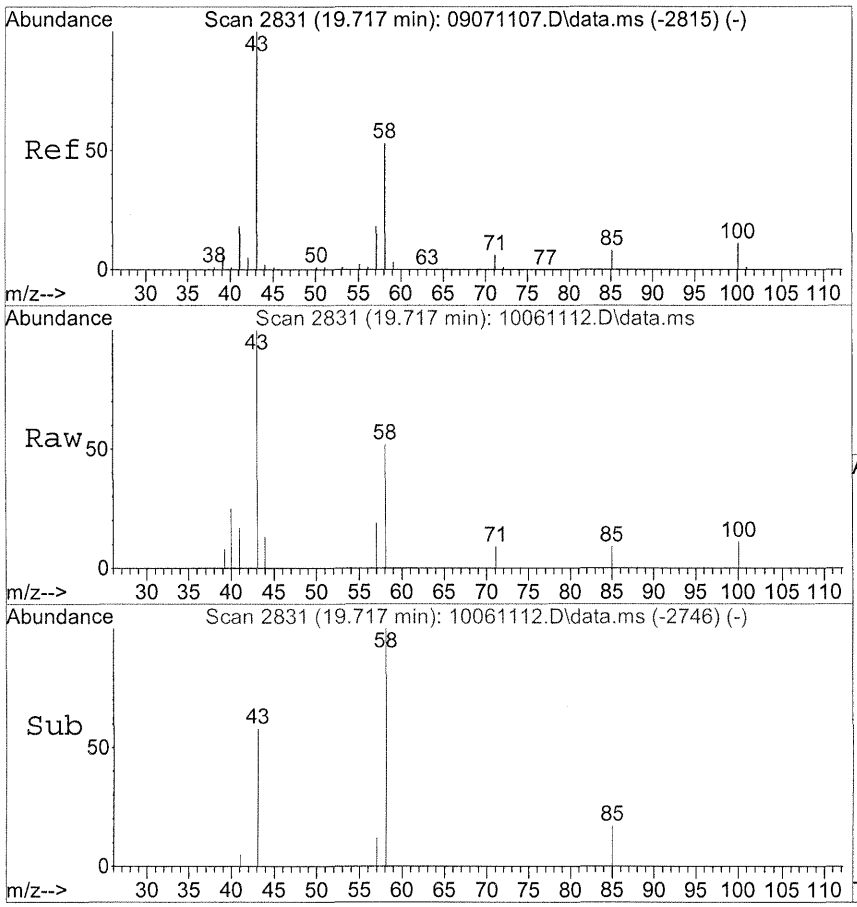


#58
Toluene
Concen: 0.98 ng
RT: 19.42 min Scan# 2779
Delta R.T. -0.023 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 91 Resp: 65118

Ion	Ratio	Lower	Upper
91	100		
92	58.8	38.8	78.8

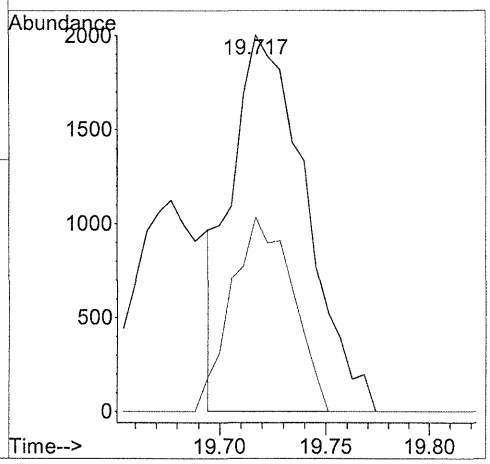


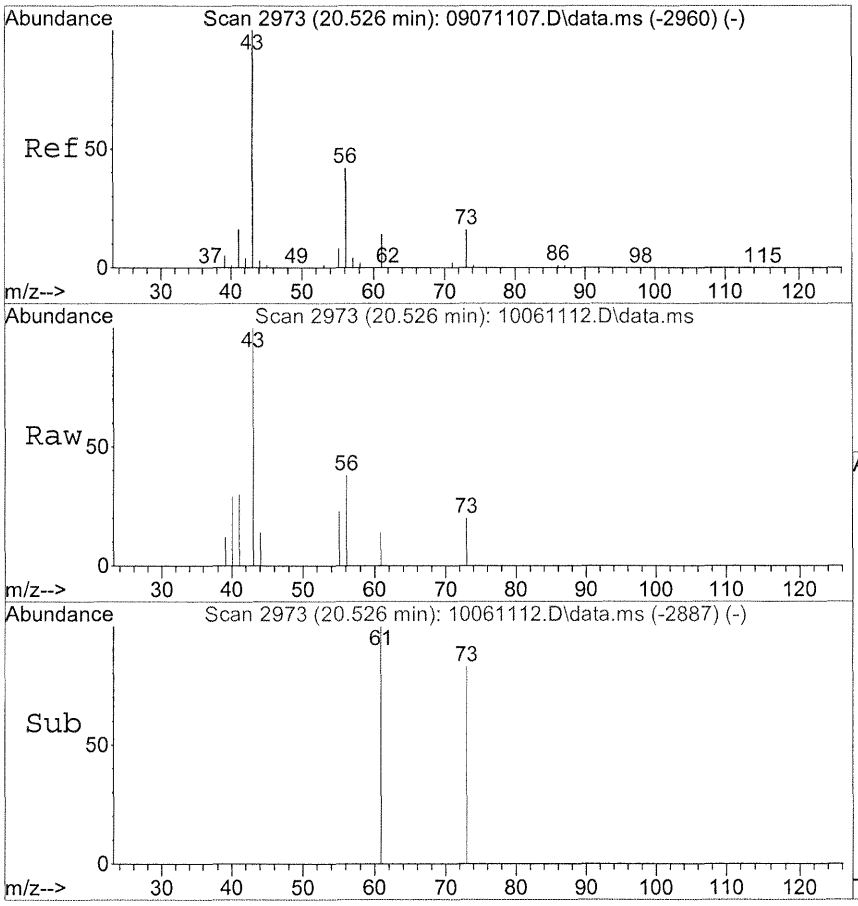


#59
2-Hexanone
Concen: 0.13 ng
RT: 19.72 min Scan# 2831
Delta R.T. -0.017 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 43 Resp: 4887

Ion	Ratio	Lower	Upper
43	100		
58	42.4	37.7	77.7

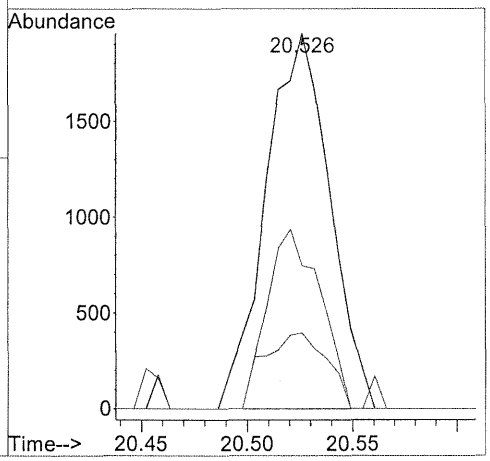


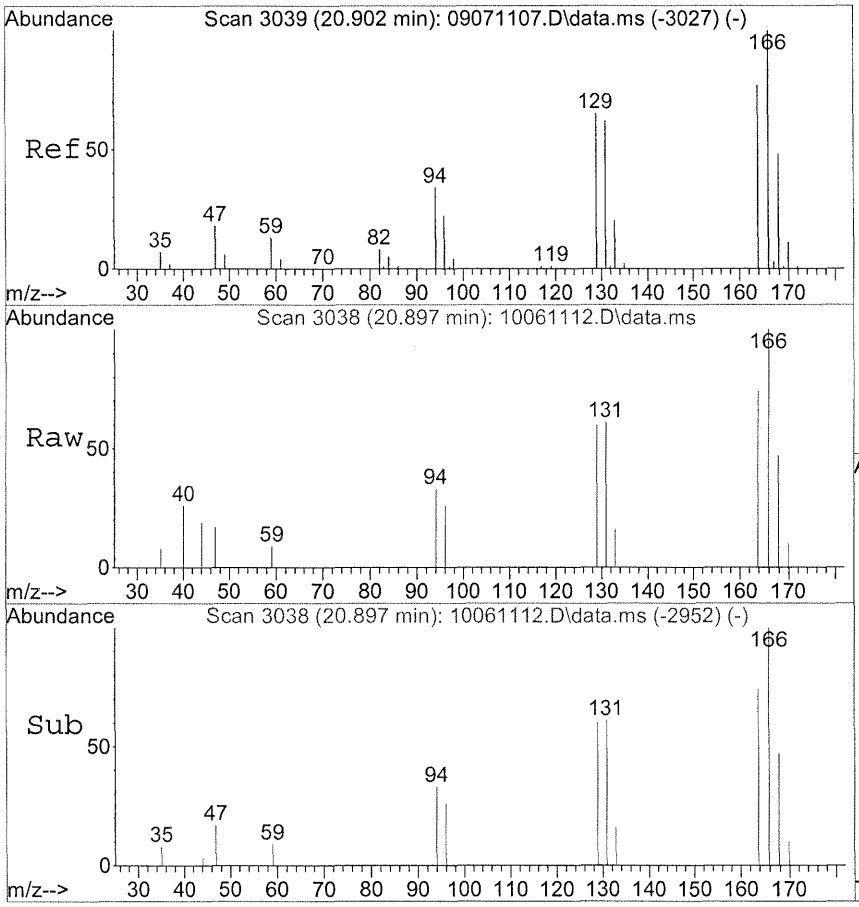


#62
n-Butyl Acetate
Concen: 0.10 ng
RT: 20.53 min Scan# 2973
Delta R.T. -0.012 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 43 Resp: 4119

Ion	Ratio	Lower	Upper
43	100		
56	40.0	23.6	63.6
73	19.8	0.1	40.1

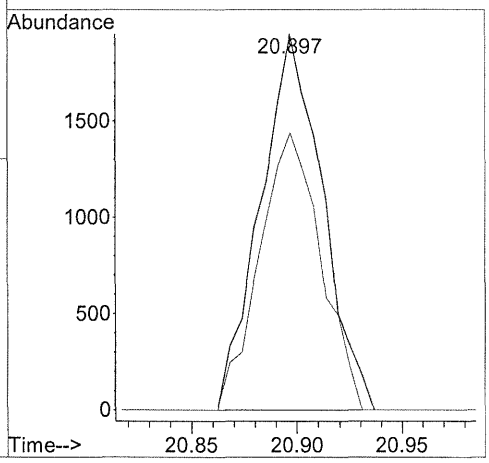


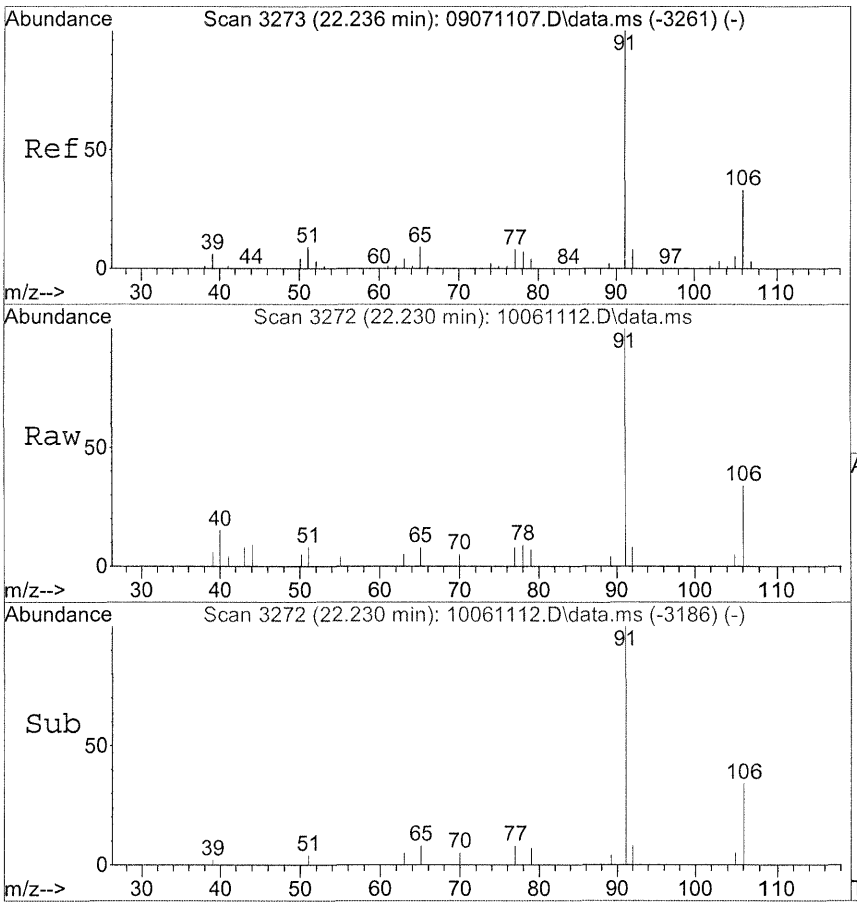


#64
Tetrachloroethene
Concen: 0.19 ng
RT: 20.90 min Scan# 3038
Delta R.T. -0.012 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion:166 Resp: 3986

Ion	Ratio	Lower	Upper
166	100		
164	73.1	58.2	98.2

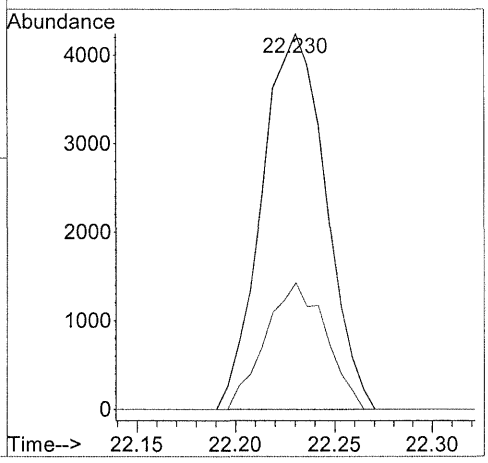


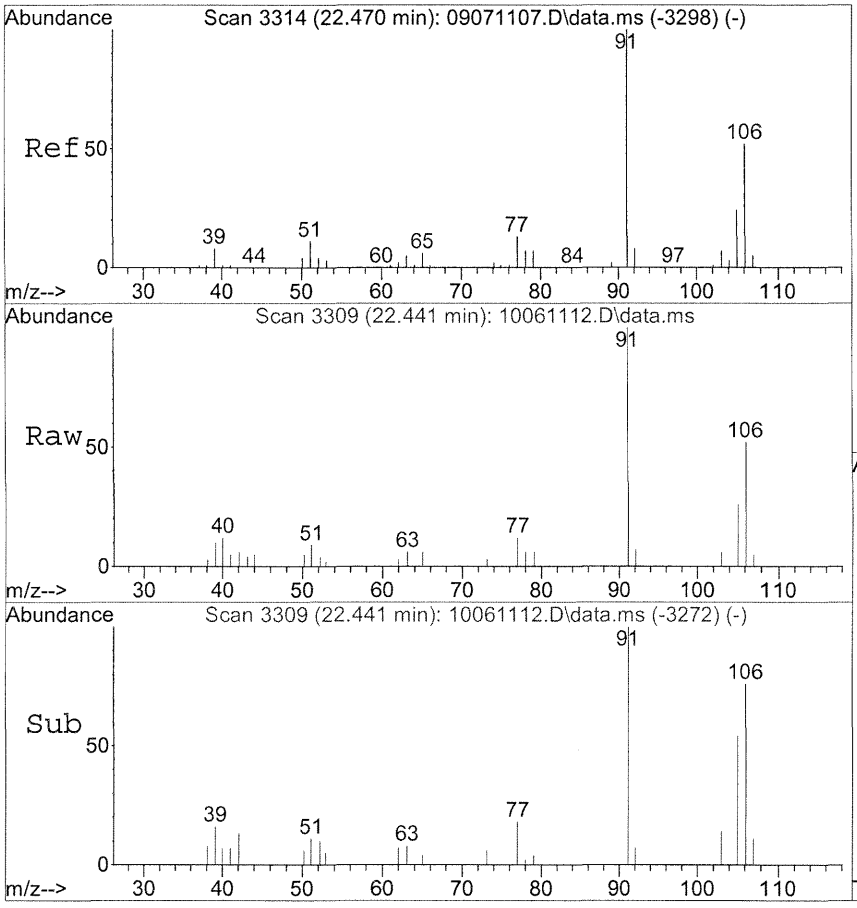


#66
Ethylbenzene
Concen: 0.13 ng
RT: 22.23 min Scan# 3272
Delta R.T. -0.012 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 91 Resp: 9467

Ion	Ratio	Lower	Upper
91	100		
106	31.7	12.0	52.0

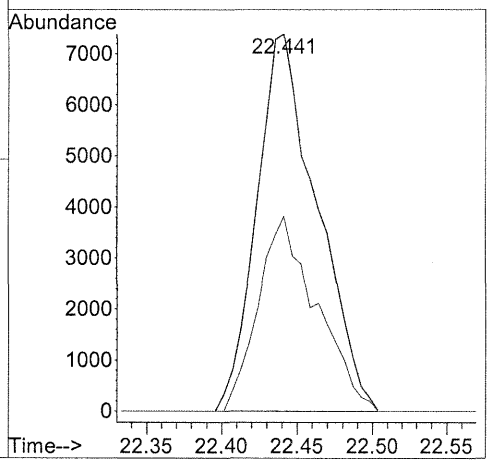


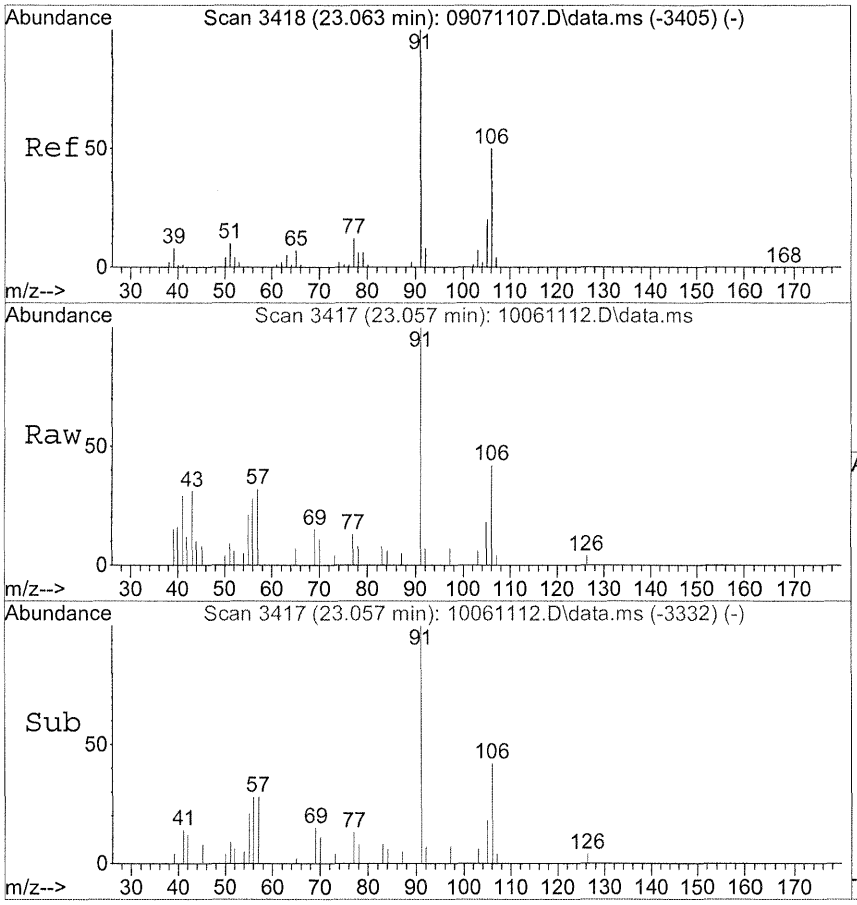


#67
m- & p-Xylenes
Concen: 0.35 ng
RT: 22.44 min Scan# 3309
Delta R.T. -0.040 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 91 Resp: 20391

Ion	Ratio	Lower	Upper
91	100		
106	50.1	27.4	67.4

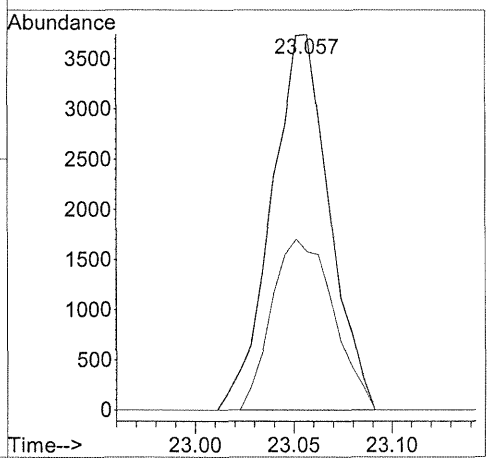


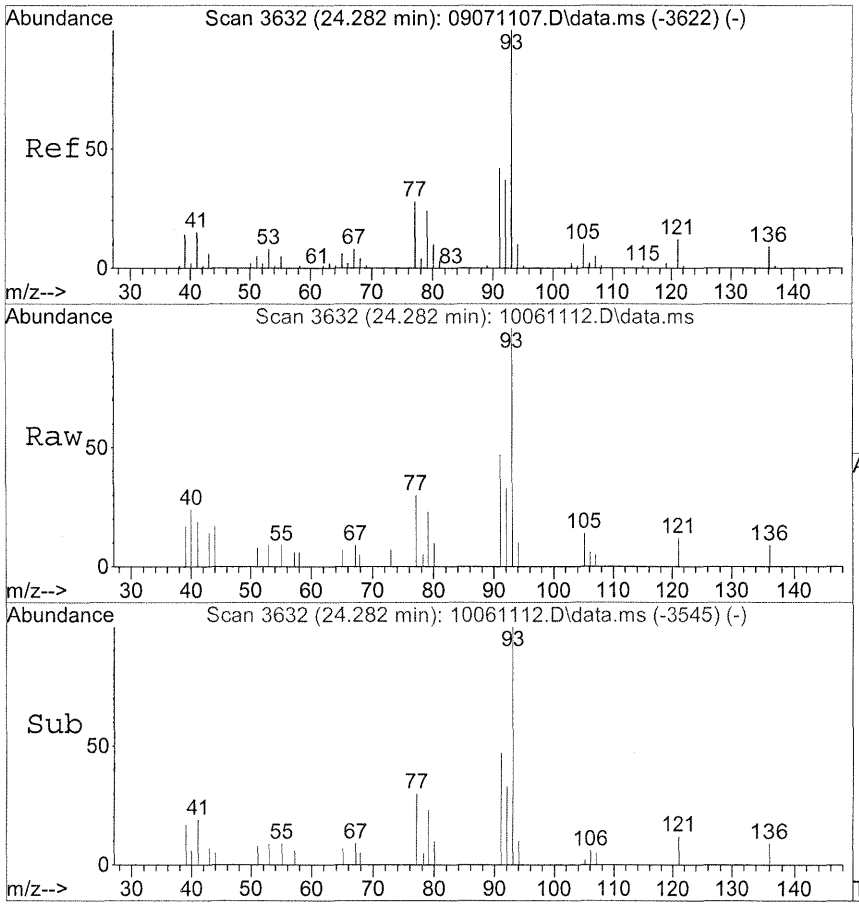


#70
o-Xylene
Concen: 0.13 ng
RT: 23.06 min Scan# 3417
Delta R.T. -0.017 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 91 Resp: 7638

Ion	Ratio	Lower	Upper
91	100		
106	48.4	25.7	65.7

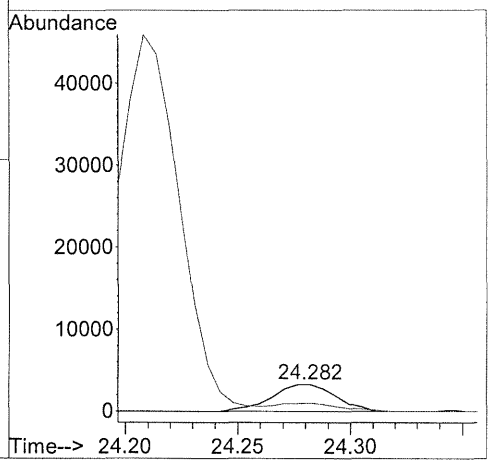


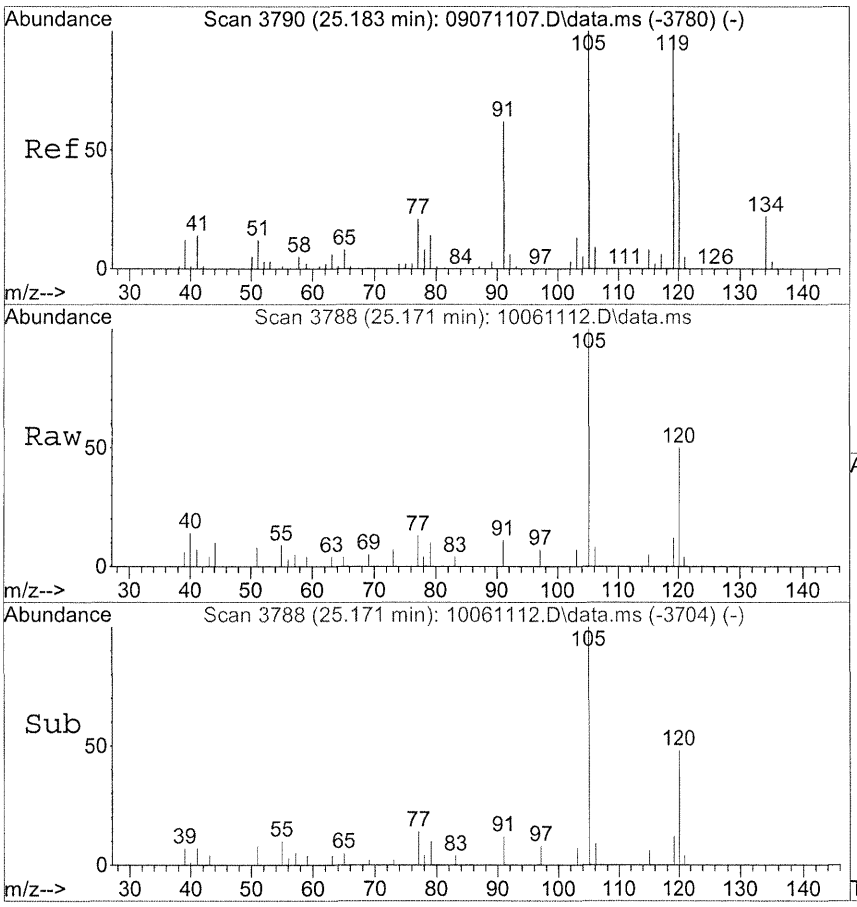


#75
alpha-Pinene
Concen: 0.16 ng
RT: 24.28 min Scan# 3632
Delta R.T. -0.006 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 93 Resp: 6352

Ion	Ratio	Lower	Upper
93	100		
77	30.2	12.5	52.5

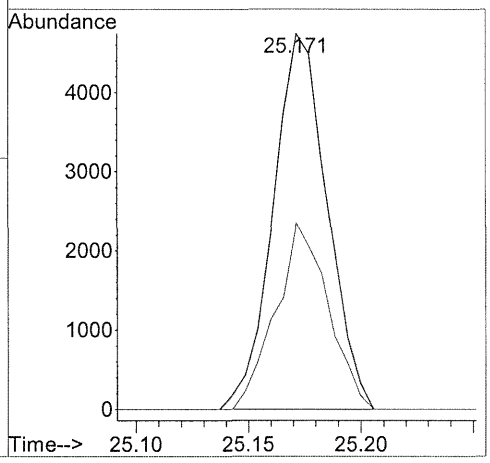


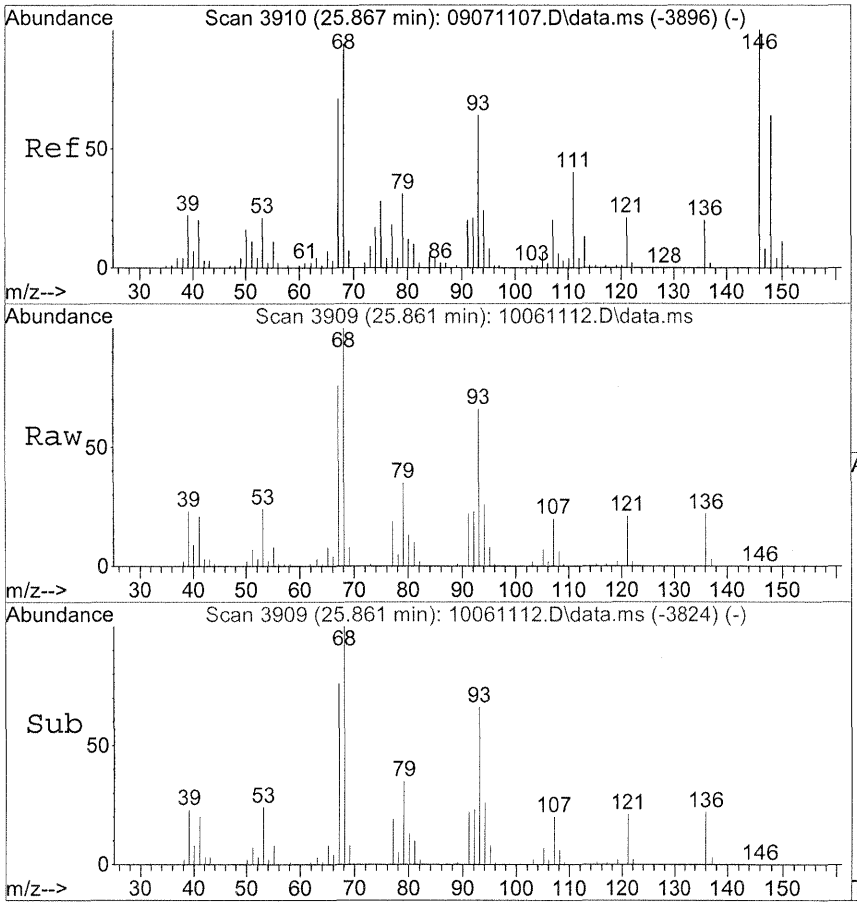


#82
1,2,4-Trimethylbenzene
Concen: 0.12 ng
RT: 25.17 min Scan# 3788
Delta R.T. -0.023 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion:105 Resp: 7920

Ion	Ratio	Lower	Upper
105	100		
120	48.2	29.9	69.9

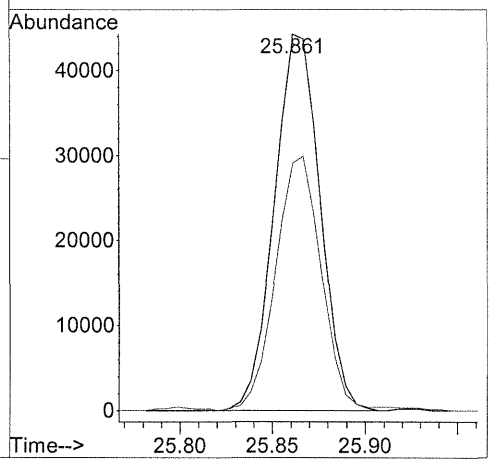


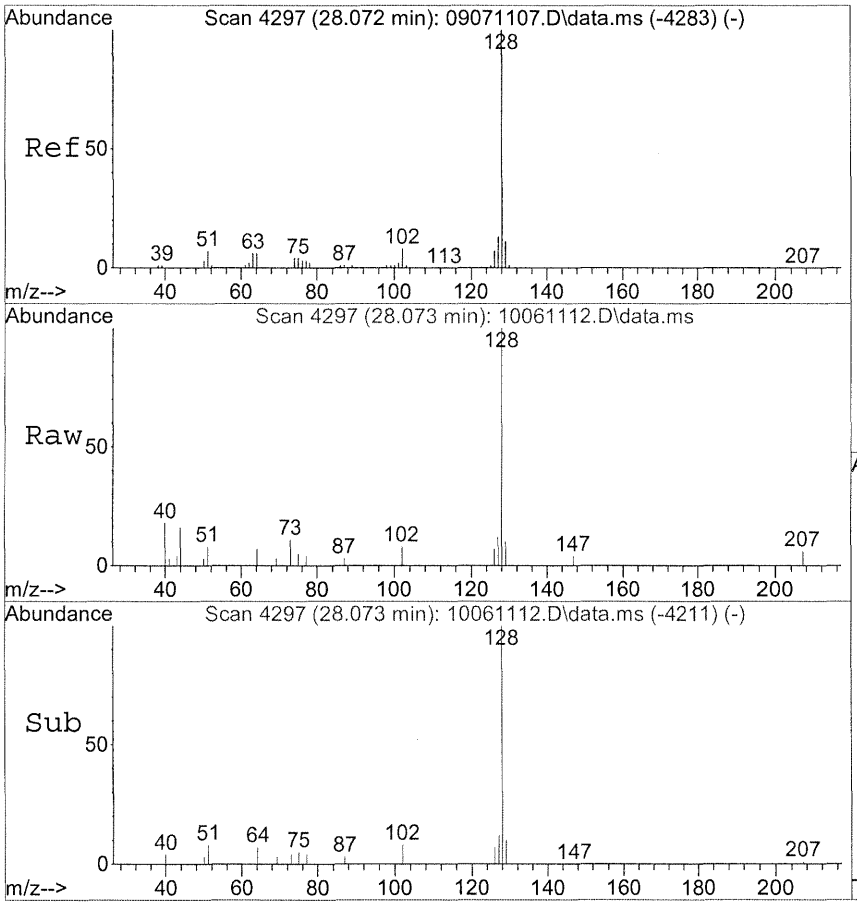


#91
d-Limonene
Concen: 3.00 ng
RT: 25.86 min Scan# 3909
Delta R.T. -0.017 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion: 68 Resp: 76137

Ion	Ratio	Lower	Upper
68	100		
93	67.9	51.7	91.7

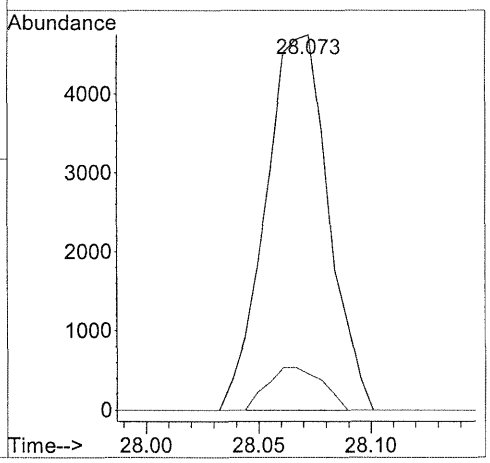




#95
Naphthalene
Concen: 0.10 ng
RT: 28.07 min Scan# 4297
Delta R.T. -0.011 min
Lab File: 10061112.D
Acq: 6 Oct 2011 17:29

Tgt Ion:128 Resp: 9216

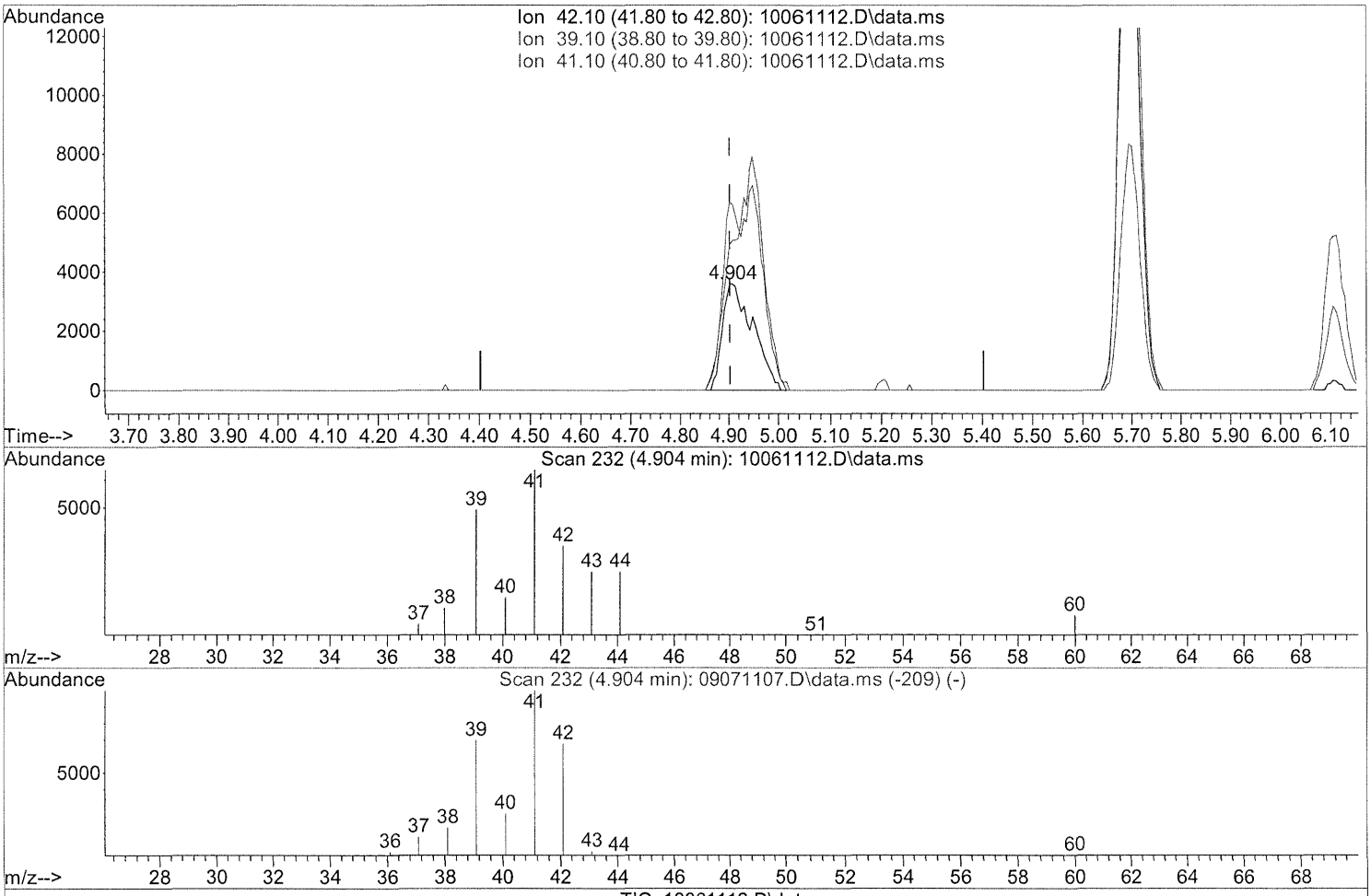
Ion	Ratio	Lower	Upper
128	100		
129	9.9	0.0	31.1



Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061112.D\data.ms

(2) Propene (T)

4.904min (-0.000) 0.67ng

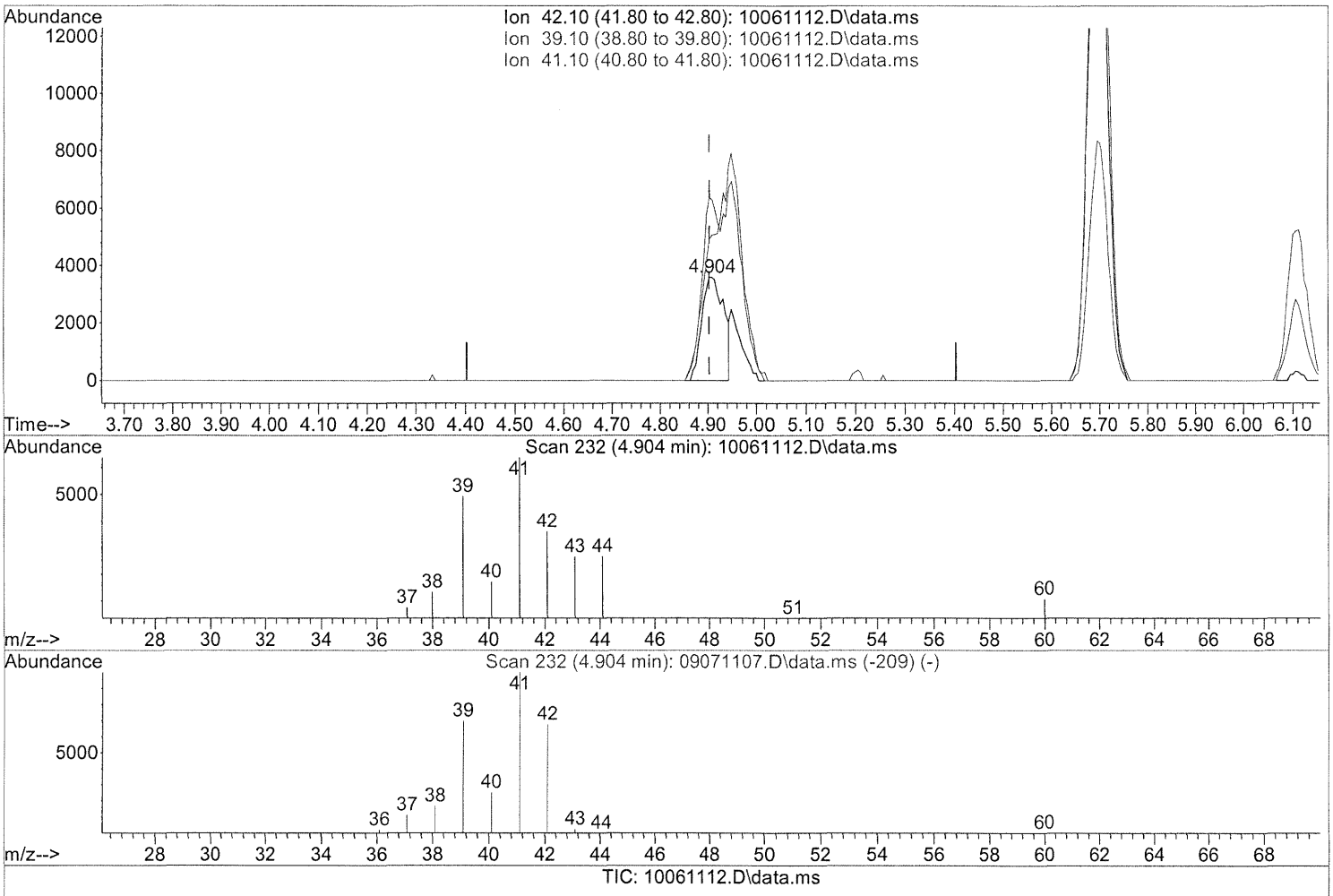
response 15410

Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061112.D\data.ms

(2) Propene (T)

4.904min (-0.000) 0.50ng m

response 11410

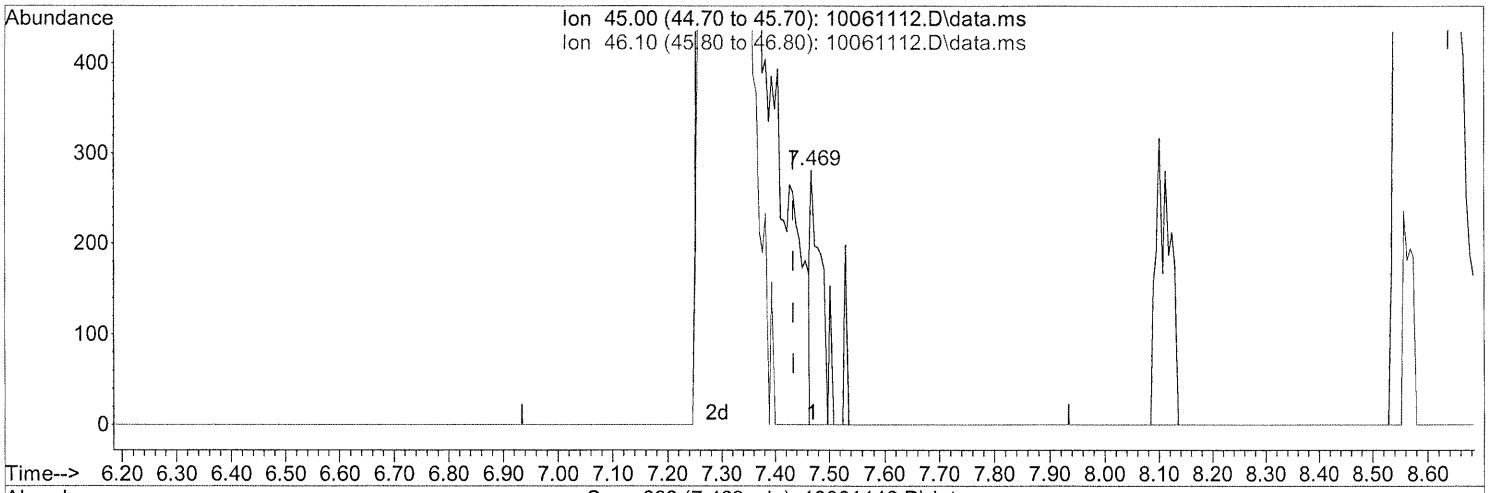
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	0.00#
0.00	0.00	0.00

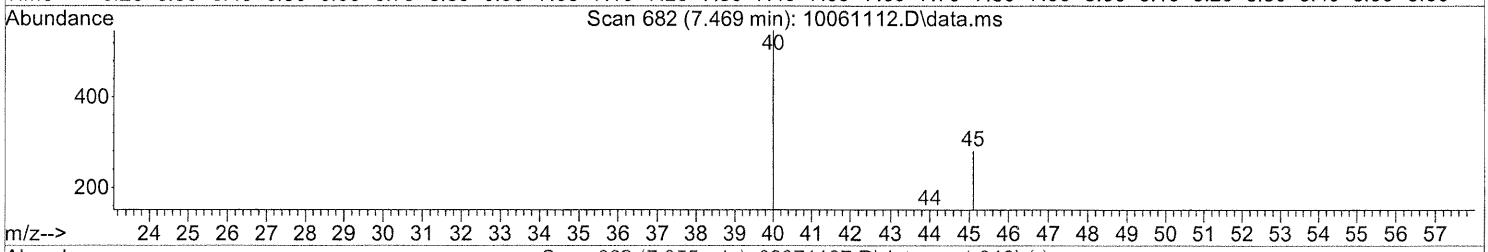
IPC
EM 10/7/11
10/7/11

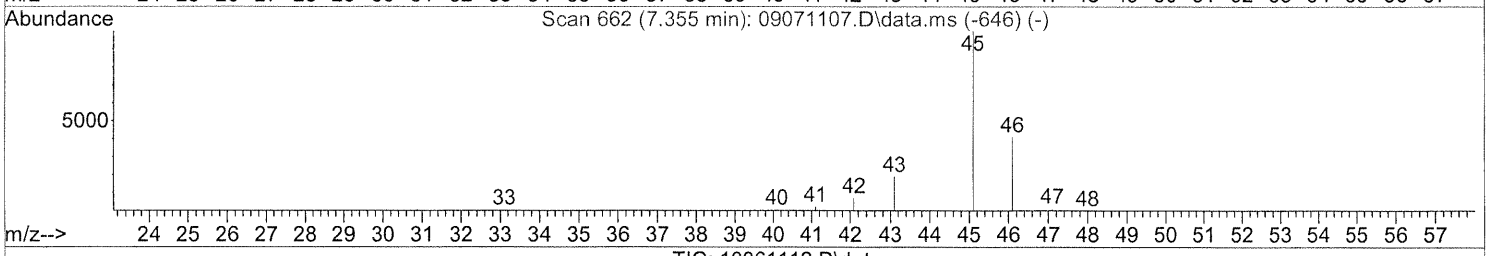
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061112.D\data.ms

(10) Ethanol (T)

7.469min (+0.034) 0.03ng

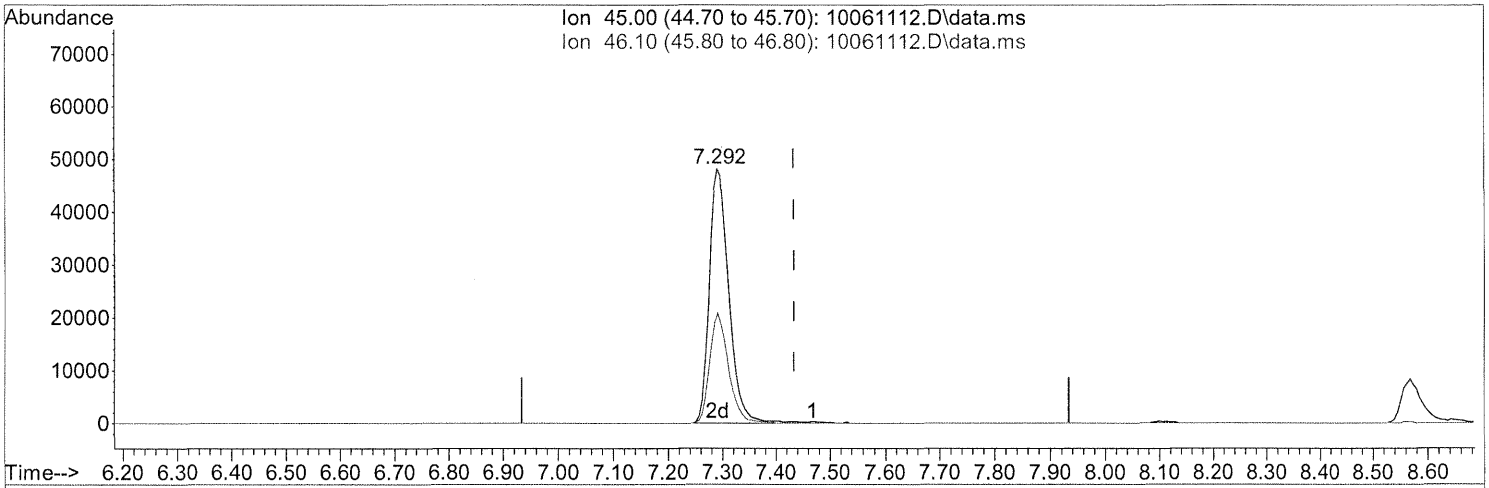
response 405

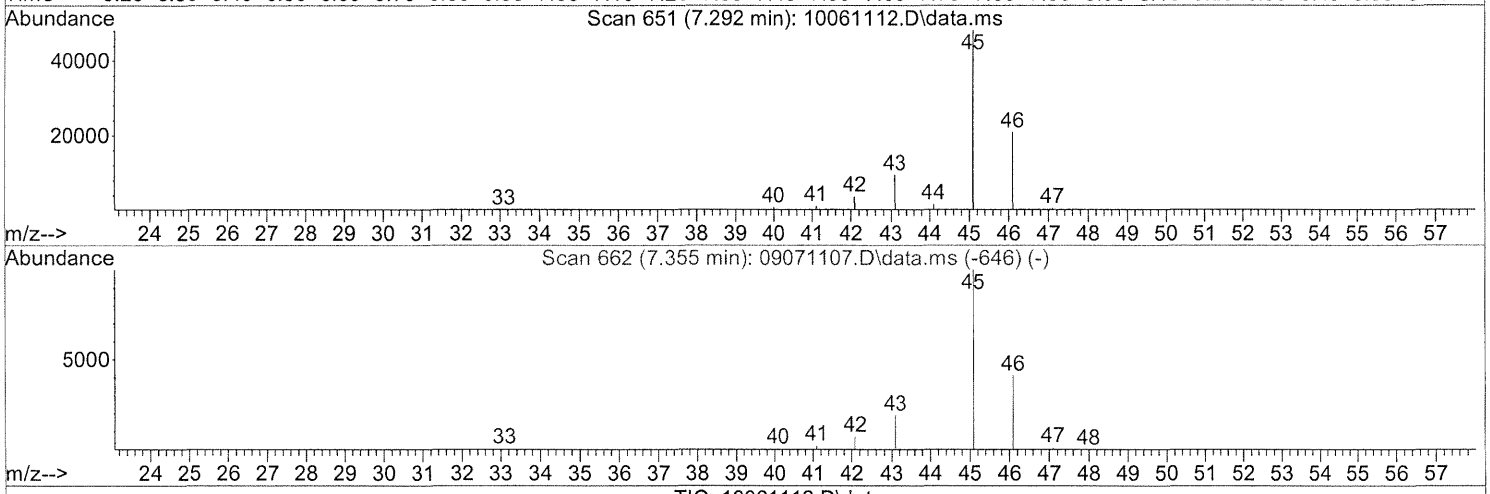
Ion	Exp%	Act%
45.00	100	100
46.10	40.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration





TIC: 10061112.D\data.ms

(10) Ethanol (T)

7.292min (-0.143) 9.07ng m

response 120374

Ion	Exp%	Act%
45.00	100	100
46.10	40.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

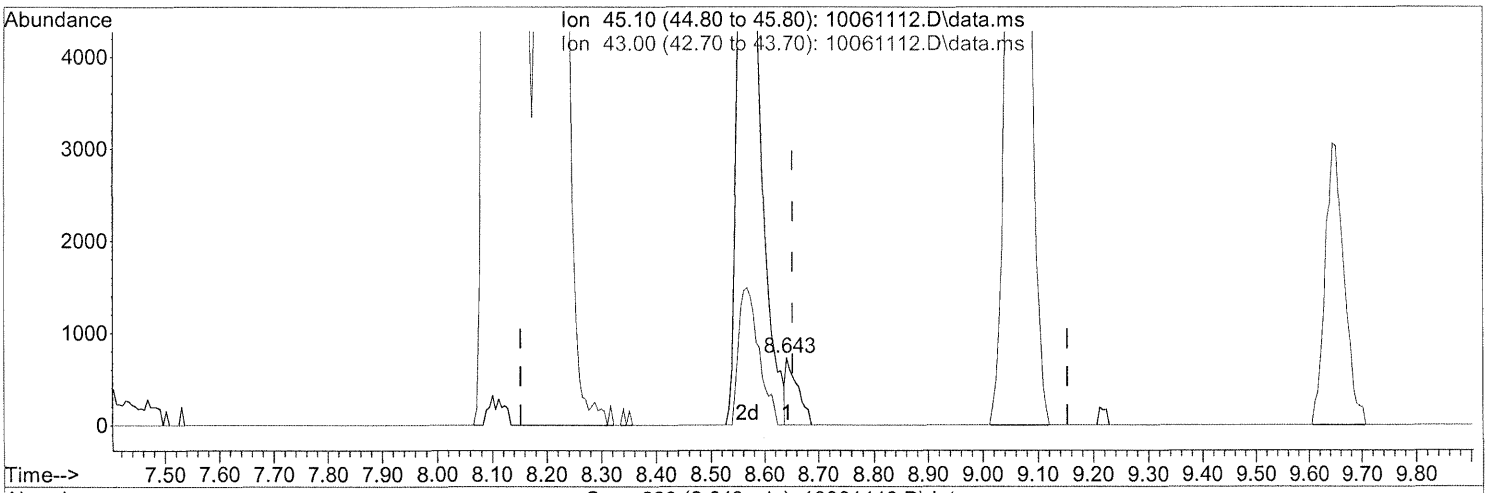
SP 10/7/11

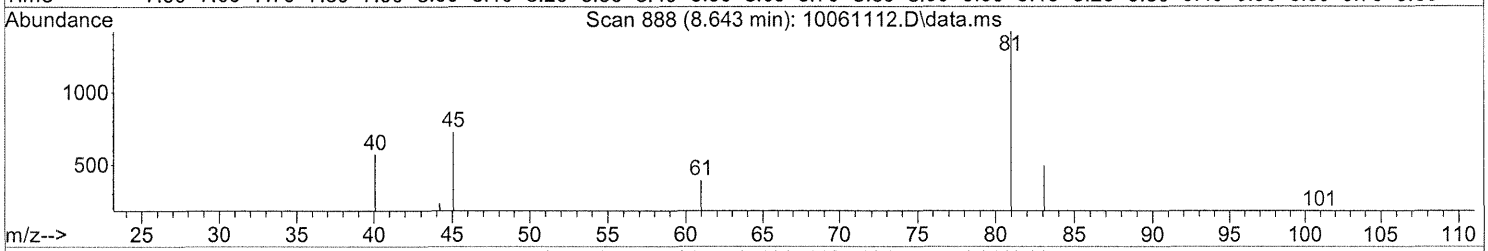
10/7/11

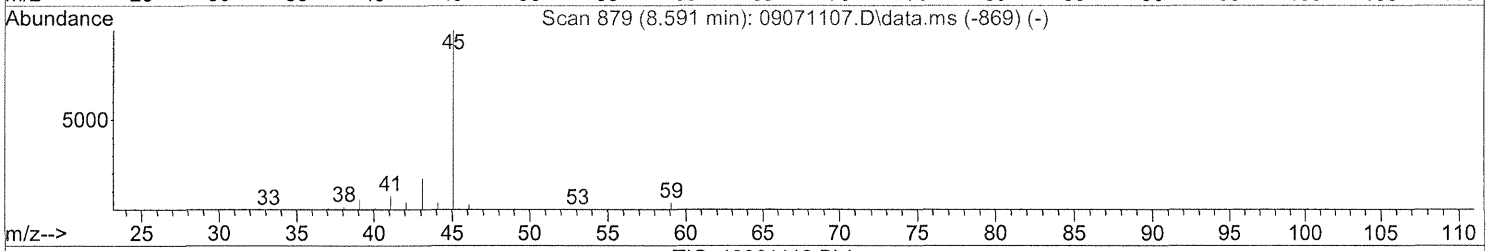
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061112.D\data.ms

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

8.643min (-0.011) 0.03ng

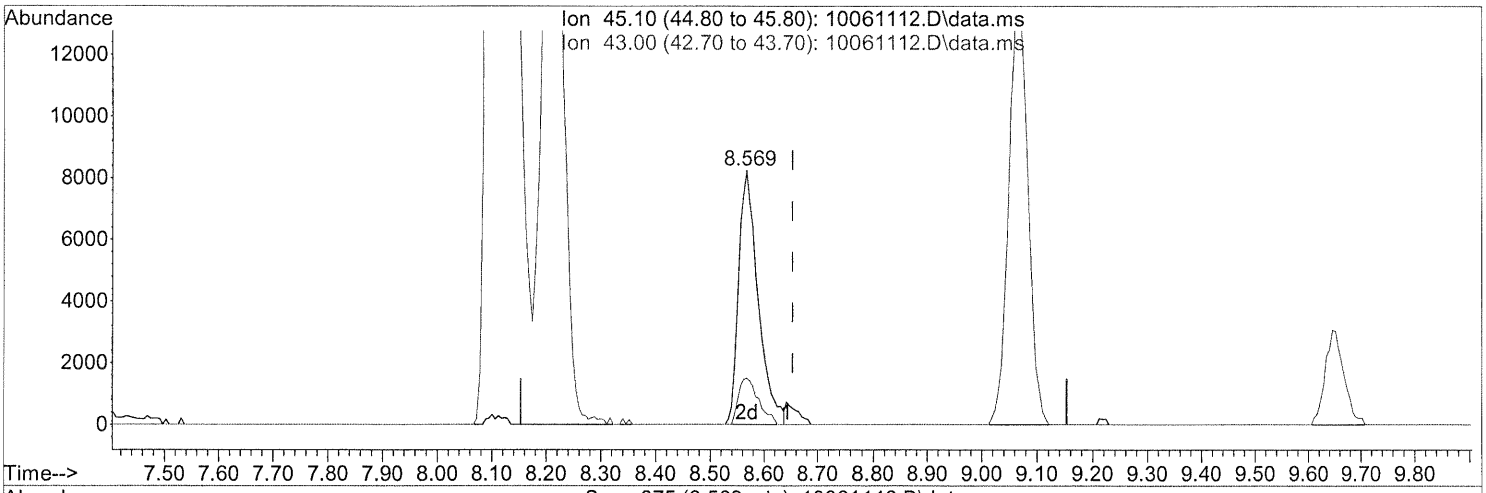
response 1129

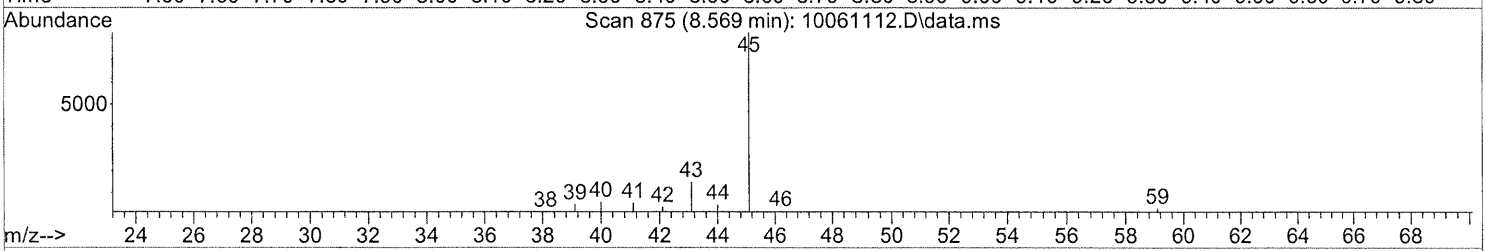
Ion	Exp%	Act%
45.10	100	100
43.00	21.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

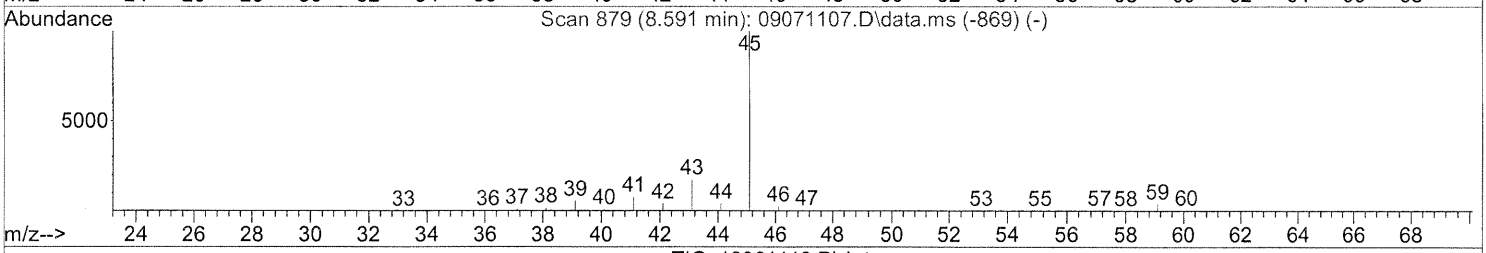
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061112.D\data.ms

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

8.569min (-0.085) 0.58ng m

response 20804

Ion	Exp%	Act%
45.10	100	100
43.00	21.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

WP

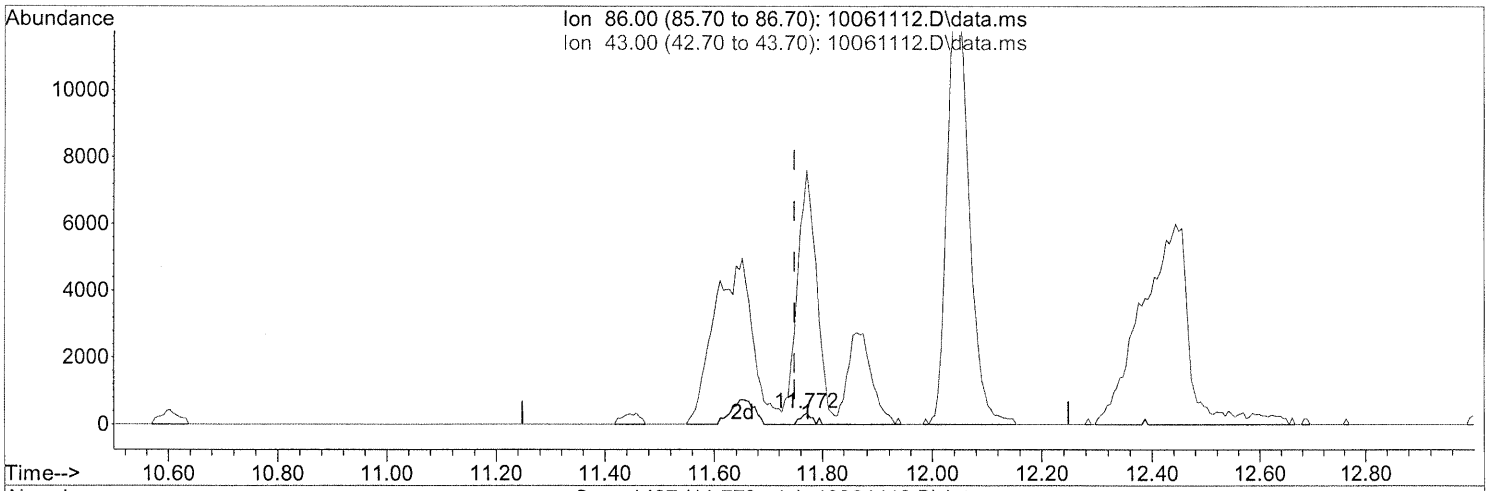
Em 10/7/11

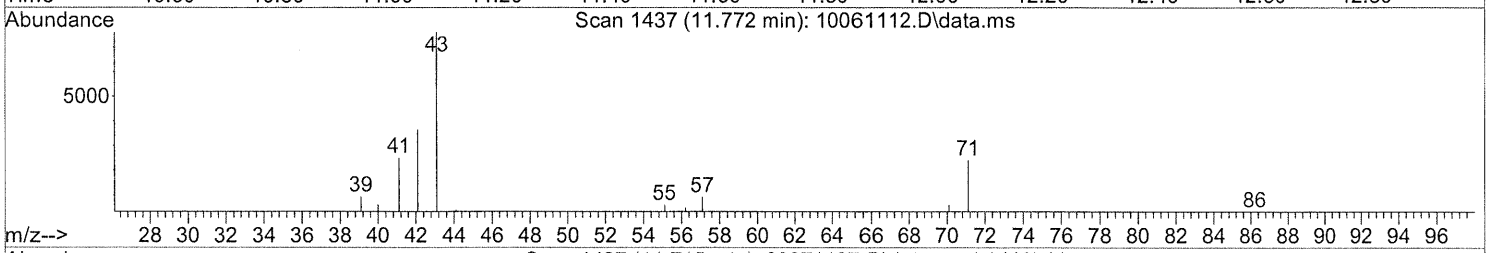
C. 10/7/11

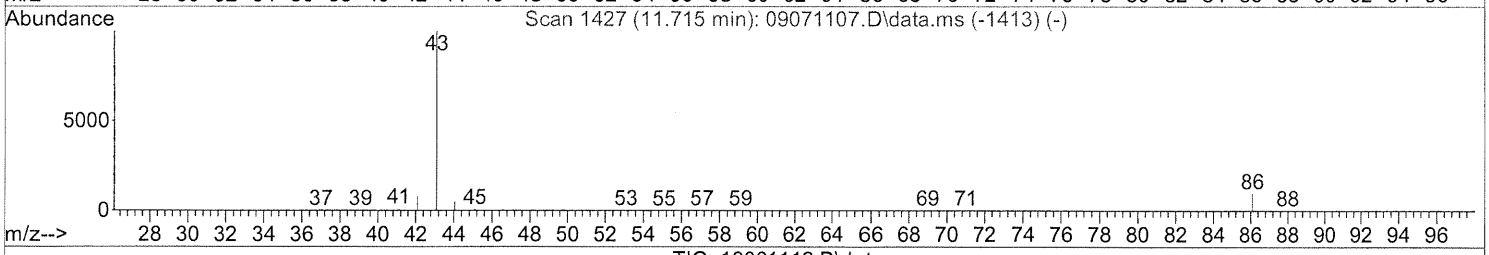
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061112.D\data.ms

(26) Vinyl Acetate (T)

11.772min (+0.023) 0.11ng

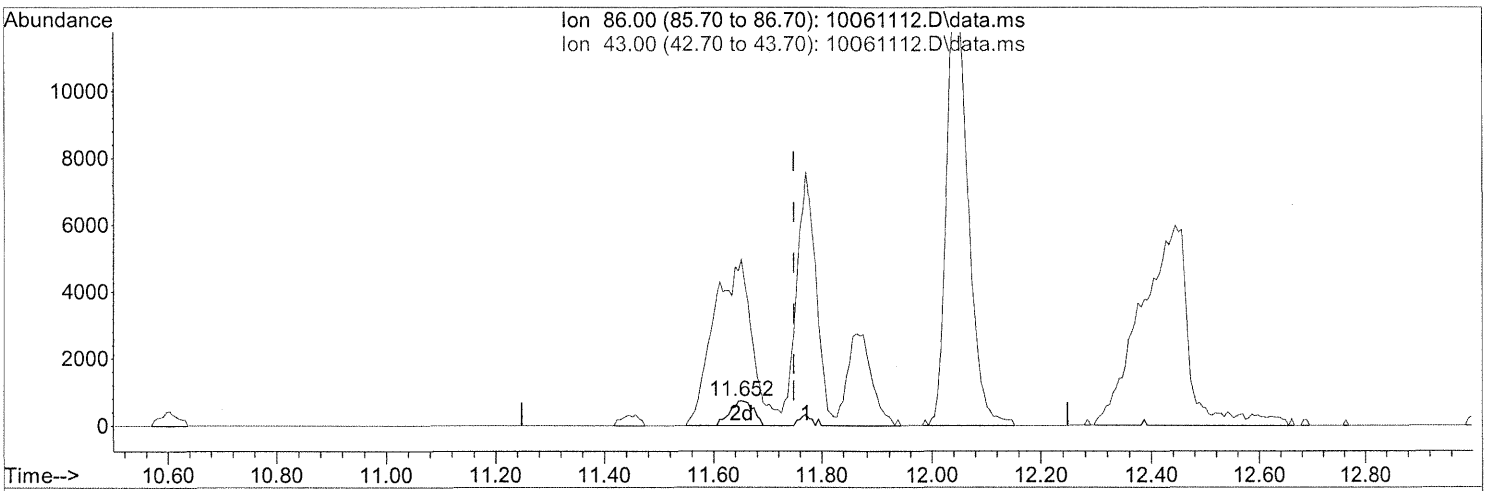
response 511

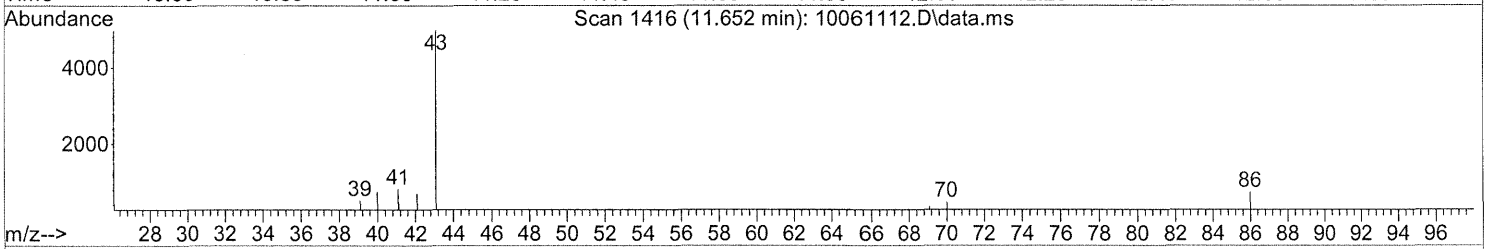
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	3717.61#
0.00	0.00	0.00
0.00	0.00	0.00

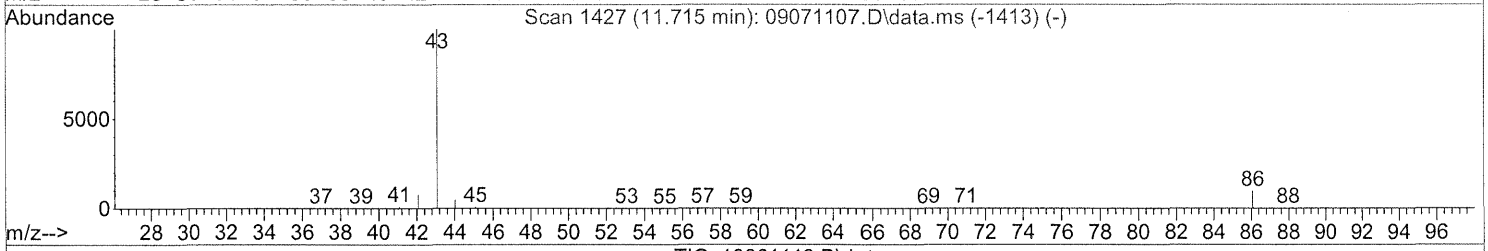
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 17:29
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061112.D\data.ms

(26) Vinyl Acetate (T)

11.652min (-0.097) 0.48ng m

response 2136

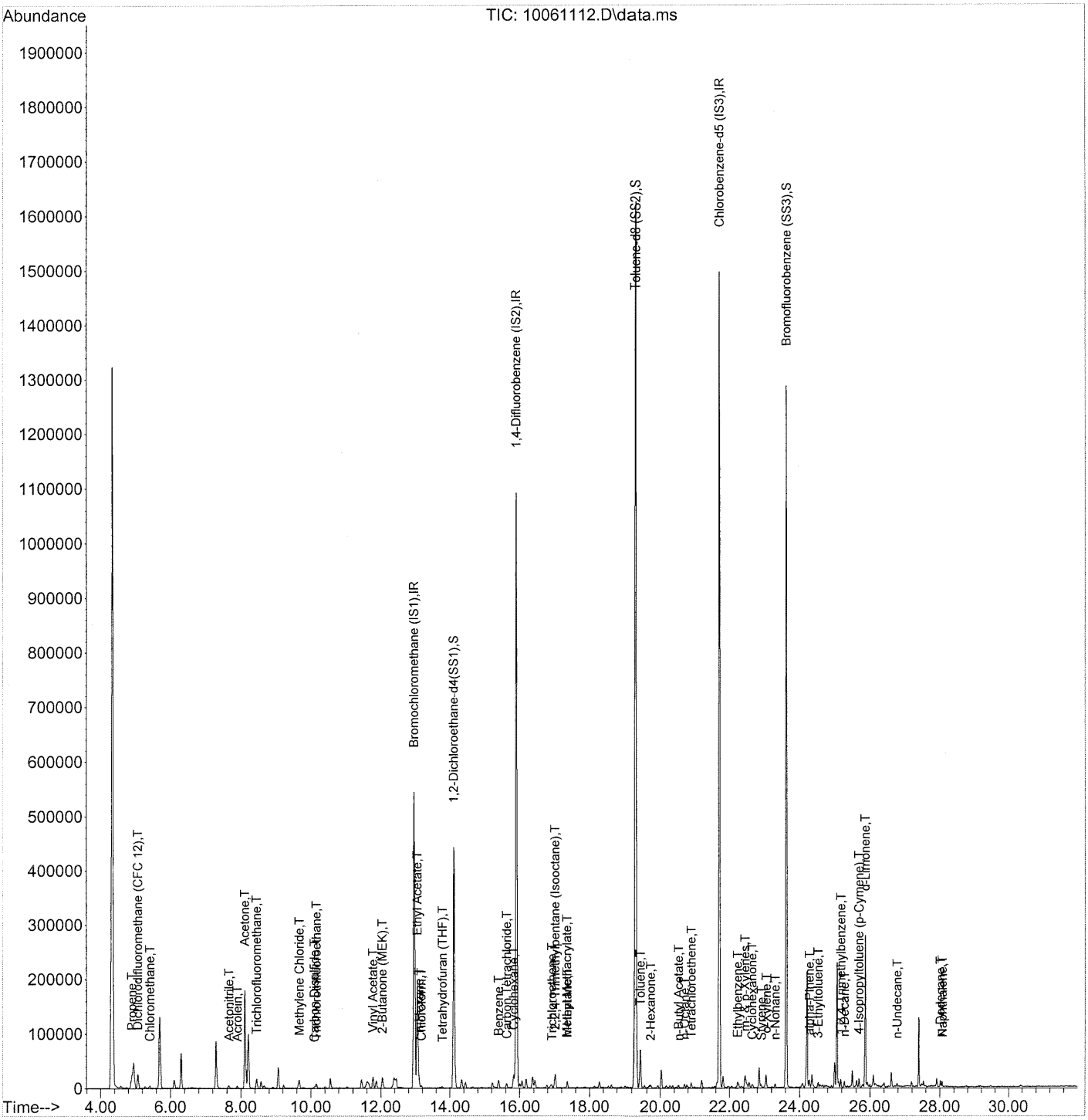
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	889.37#
0.00	0.00	0.00
0.00	0.00	0.00

WP
Em 10/7/11
10/7/11

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 5:29 pm
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 5:29 pm
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	286714	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1297197	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	615430	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	427650	24.956	ng		-0.03
Spiked Amount 25.000			Recovery = 99.84%				
57) Toluene-d8 (SS2)	19.30	98	1433692	25.066	ng		-0.01
Spiked Amount 25.000			Recovery = 100.28%				
73) Bromofluorobenzene (SS3)	23.62	174	512267	25.386	ng		0.00
Spiked Amount 25.000			Recovery = 101.56%				
Target Compounds							Qvalue
2) Propene	4.90	42	15410	0.671	ng	#	1
3) Dichlorodifluoromethan...	5.07	85	40100	1.413	ng		99
4) Chloromethane	5.42	50	5143	0.216	ng		95
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	757	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.19	54	440	N.D.			
8) Bromomethane	6.69	94	618	N.D.			
9) Chloroethane	7.05	64	64	N.D.			
10) Ethanol	7.47	45	405	N.D.			
11) Acetonitrile	7.66	41	6262	0.203	ng		90
12) Acrolein	7.90	56	4551	0.453	ng		99
13) Acetone	8.11	58	88056	6.935	ng		98
14) Trichlorofluoromethane	8.44	101	19715	0.773	ng		98
15) 2-Propanol (Isopropanol)	8.64	45	1129	N.D.			
16) Acrylonitrile	8.90	53	849	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.57	59	1497	N.D.			
19) Methylene Chloride	9.67	84	7424	0.471	ng		85
20) 3-Chloro-1-propene (Al...	9.78	41	362	N.D.			
21) Trichlorotrifluoroethane	10.16	151	4160	0.313	ng		94
22) Carbon Disulfide	10.10	76	5628	0.103	ng		91
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	11.59	73	716	N.D.			
26) Vinyl Acetate	11.77	86	511	0.114	ng	#	1
27) 2-Butanone (MEK)	12.04	72	8134	0.743	ng	#	43
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.05	87	809	N.D.			
30) Ethyl Acetate	13.05	61	44345	7.472	ng	#	79
31) n-Hexane	13.11	57	9951	0.325	ng	#	95

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 5:29 pm
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.17	83	4983	0.215 ng		99
34) Tetrahydrofuran (THF)	13.79	72	887	0.087 ng	#	31
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.29	62	461	N.D.		
38) 1,1,1-Trichloroethane	14.71	97	398	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.31	56	115	N.D.		
41) Benzene	15.40	78	18185	0.298 ng		96
42) Carbon Tetrachloride	15.63	117	6744	0.357 ng		99
43) Cyclohexane	15.83	84	13630	0.515 ng		86
44) tert-Amyl Methyl Ether	16.17	73	53	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.90	83	609	N.D.		
47) Trichloroethene	16.92	130	1071	0.061 ng		91
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	17.02	57	27604	0.367 ng		98
50) Methyl Methacrylate	17.36	100	938	0.130 ng	#	1
51) n-Heptane	17.36	71	3370	0.186 ng		83
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.14	58	829	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	19.42	91	65118	0.984 ng		100
59) 2-Hexanone	19.72	43	4887	0.133 ng		79
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.53	43	4119	0.096 ng		96
63) n-Octane	20.70	57	1172	0.078 ng		85
64) Tetrachloroethene	20.90	166	3986	0.193 ng		94
65) Chlorobenzene	21.80	112	188	N.D.		
66) Ethylbenzene	22.23	91	9467	0.131 ng		99
67) m- & p-Xylenes	22.44	91	20391	0.354 ng		96
68) Bromoform	22.54	173	120	N.D.		
69) Styrene	22.91	104	3797	0.084 ng		95
70) o-Xylene	23.06	91	7638	0.126 ng		96
71) n-Nonane	23.30	43	3469	0.088 ng	#	75
72) 1,1,2,2-Tetrachloroethane	23.04	83	602	N.D.		
74) Cumene	23.79	105	606	N.D.		
75) alpha-Pinene	24.28	93	6352	0.162 ng		96
76) n-Propylbenzene	24.41	91	2970	N.D.		
77) 3-Ethyltoluene	24.53	105	6379	0.083 ng		98
78) 4-Ethyltoluene	24.59	105	3059	N.D.		
79) 1,3,5-Trimethylbenzene	24.68	105	2398	N.D.		

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061112.D
Acq On : 6 Oct 2011 5:29 pm
Operator : EM/CR
Sample : P1103662-006 (1000ml)
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 08:45:54 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

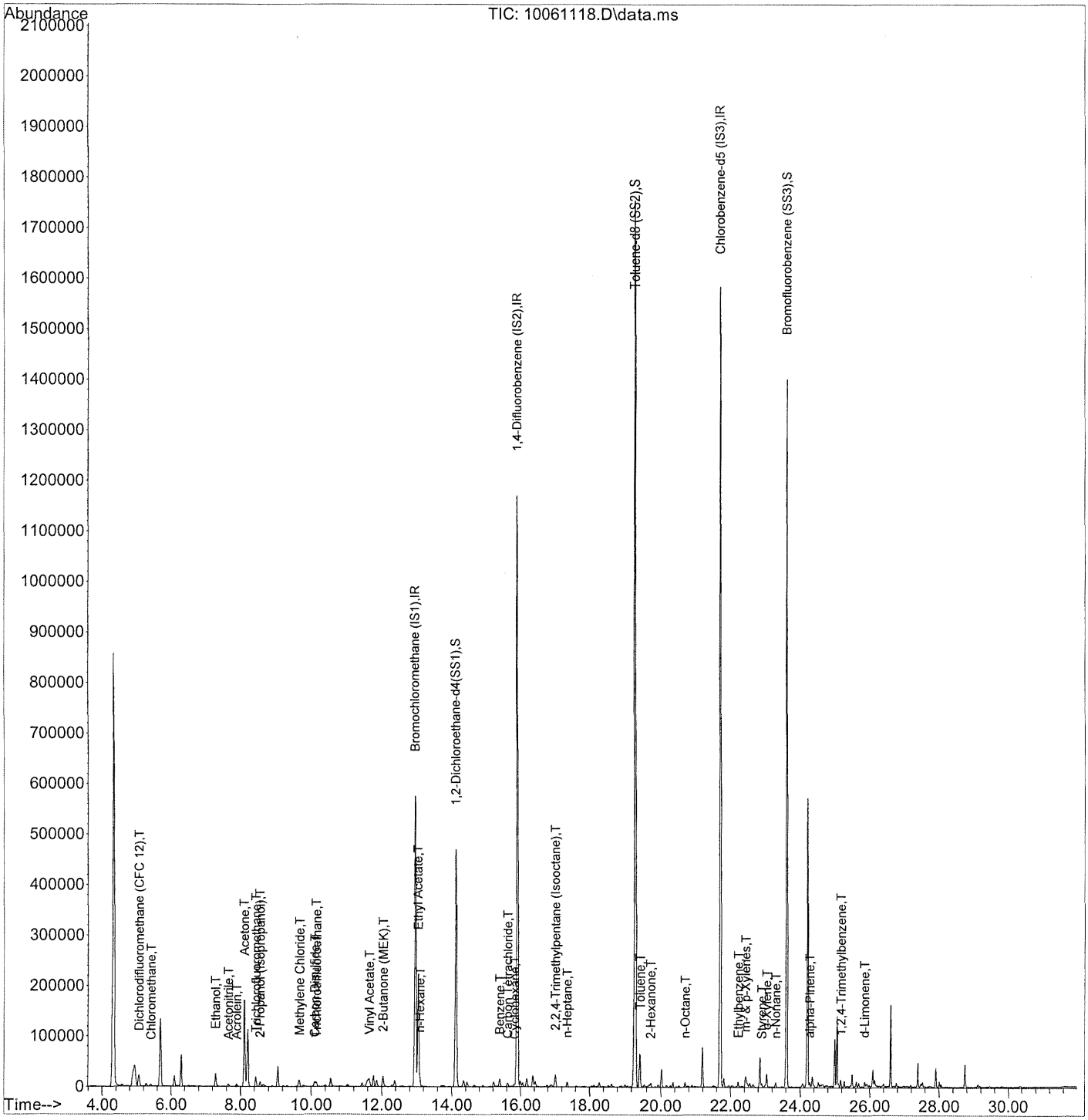
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.85	118	373	N.D.		
81) 2-Ethyltoluene	24.91	105	2555	N.D.		
82) 1,2,4-Trimethylbenzene	25.17	105	7920	0.124 ng		98
83) n-Decane	25.27	57	4013	0.102 ng		90
84) Benzyl Chloride	25.35	91	200	N.D.		
85) 1,3-Dichlorobenzene	25.37	146	130	N.D.		
86) 1,4-Dichlorobenzene	25.45	146	1086	N.D.		
87) sec-Butylbenzene	25.50	105	757	N.D.		
88) 4-Isopropyltoluene (p-...	25.68	119	7353	0.087 ng		86
89) 1,2,3-Trimethylbenzene	25.70	105	2435	N.D.		
90) 1,2-Dichlorobenzene	25.86	146	53	N.D.		
91) d-Limonene	25.86	68	76137	3.000 ng		95
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.77	57	2319	0.060 ng	#	77
94) 1,2,4-Trichlorobenzene	27.92	180	398	N.D.		
95) Naphthalene	28.07	128	9216	0.098 ng		97
96) n-Dodecane	28.02	57	4305	0.122 ng		83
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.65	55	3075	0.127 ng	#	88
99) tert-Butylbenzene	25.18	119	1126	N.D.		
100) n-Butylbenzene	26.25	91	62	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:47:25 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:47:25 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	311905	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.90	114	1397708	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.69	82	657428	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	450672	24.175	ng		-0.03 ✓
Spiked Amount 25.000			Recovery = 96.68%				
57) Toluene-d8 (SS2)	19.29	98	1542671	25.248	ng		-0.02 ✓
Spiked Amount 25.000			Recovery = 101.00%				
73) Bromofluorobenzene (SS3)	23.62	174	551787	25.598	ng		-0.01 ✓
Spiked Amount 25.000			Recovery = 102.40%				
Target Compounds							Qvalue
3) Dichlorodifluoromethan...	5.07	85	40422	1.309	ng		100
4) Chloromethane	5.42	50	3928	0.152	ng		91
10) Ethanol	7.29	45	36074	2.499	ng		99
11) Acetonitrile	7.66	41	5515	0.165	ng		93
12) Acrolein	7.89	56	5359	0.491	ng		97
13) Acetone	8.11	58	88413m	6.400	ng		
14) Trichlorofluoromethane	8.44	101	21014	0.757	ng		100
15) 2-Propanol (Isopropanol)	8.56	45	16684	0.430	ng		92
19) Methylene Chloride	9.67	84	7399	0.432	ng		87
21) Trichlorotrifluoroethane	10.15	151	4672	0.323	ng		93
22) Carbon Disulfide	10.10	76	19046	0.320	ng		99
26) Vinyl Acetate	11.65	86	3770m	0.776	ng		
27) 2-Butanone (MEK)	12.04	72	8686	0.729	ng	#	59
30) Ethyl Acetate	13.04	61	50828	7.873	ng		81
31) n-Hexane	13.10	57	9023	0.271	ng		97
41) Benzene	15.39	78	19463	0.296	ng		99
42) Carbon Tetrachloride	15.62	117	6267	0.308	ng		100
43) Cyclohexane	15.82	84	2919	0.102	ng		96
49) 2,2,4-Trimethylpentane...	17.02	57	27225	0.336	ng		99
51) n-Heptane	17.36	71	2935	0.151	ng		92
58) Toluene	19.42	91	61033	0.864	ng		100
59) 2-Hexanone	19.71	43	7412	0.188	ng		82
63) n-Octane	20.70	57	1485	0.093	ng		91
66) Ethylbenzene	22.22	91	9406	0.122	ng		100
67) m- & p-Xylenes	22.44	91	19755	0.321	ng		93
69) Styrene	22.90	104	4772	0.099	ng		89
70) o-Xylene	23.05	91	7975	0.123	ng		93
71) n-Nonane	23.31	43	4361	0.103	ng		79
75) alpha-Pinene	24.28	93	3817	0.091	ng	#	42
82) 1,2,4-Trimethylbenzene	25.17	105	8048	0.118	ng		100

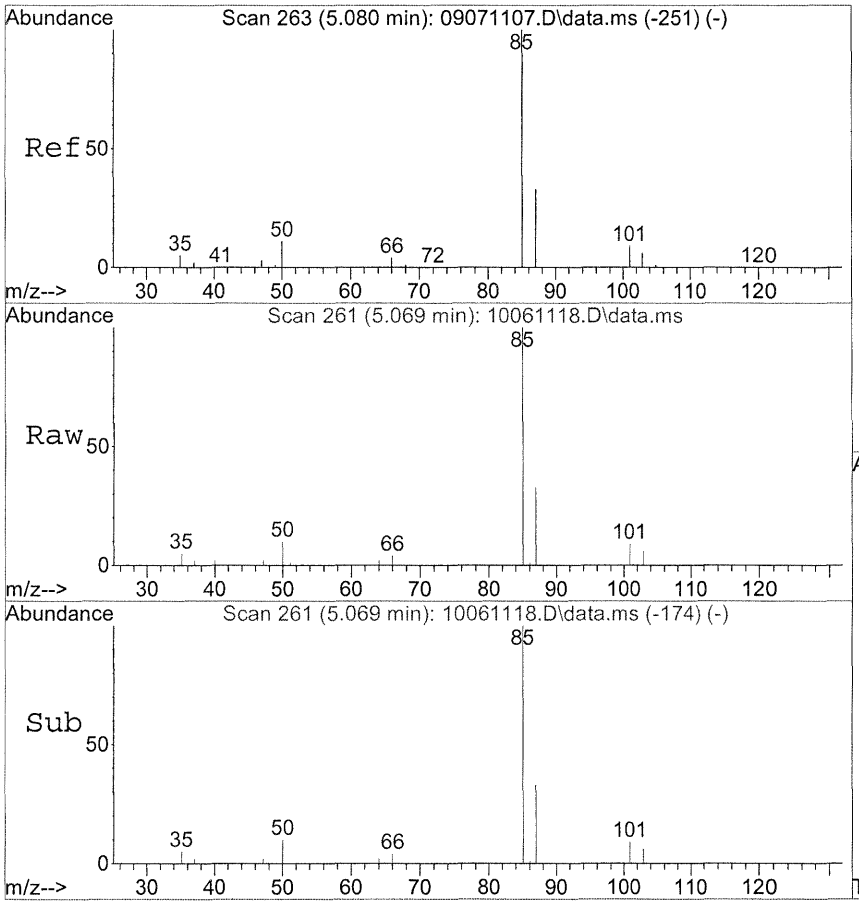
EM 10/7/11

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:47:25 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) d-Limonene	25.86	68	2797	0.103	ng	98

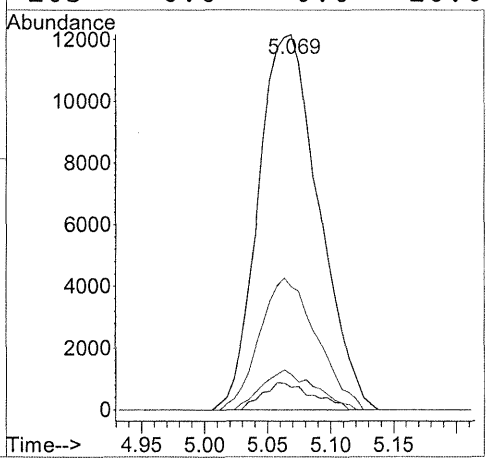
(#) = qualifier out of range (m) = manual integration (+) = signals summed

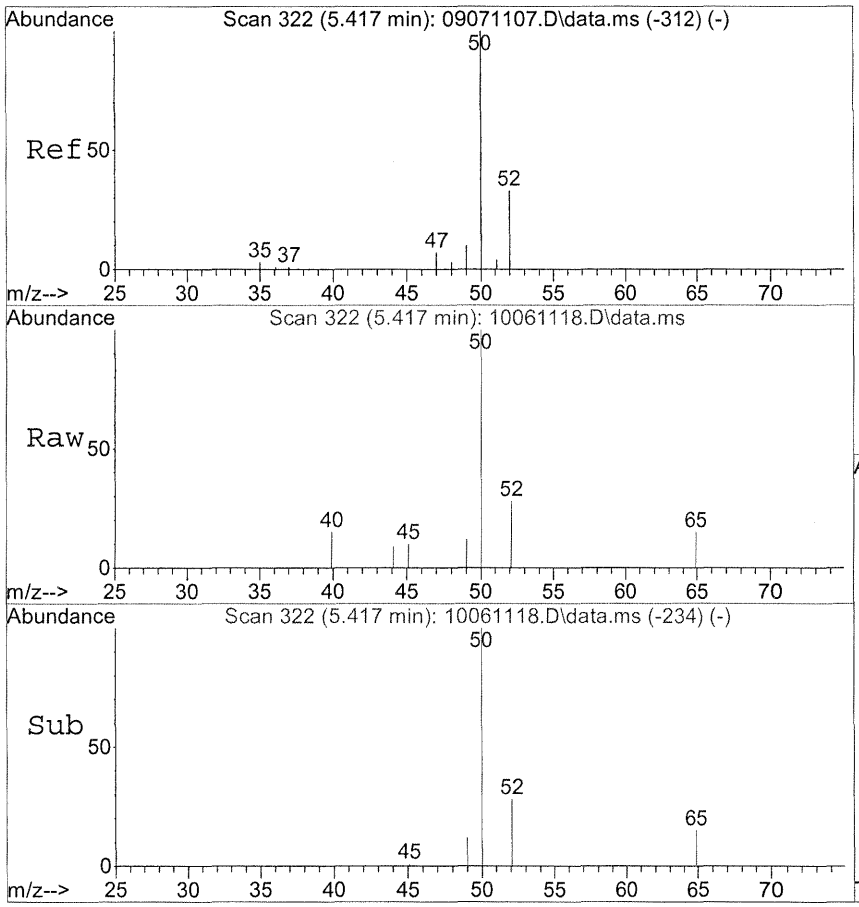


#3
Dichlorodifluoromethane (CFC
Concen: 1.31 ng
RT: 5.07 min Scan# 261
Delta R.T. -0.006 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 85 Resp: 40422

Ion	Ratio	Lower	Upper
85	100		
87	33.1	13.0	53.0
101	9.2	0.0	29.1
103	6.0	0.0	26.0

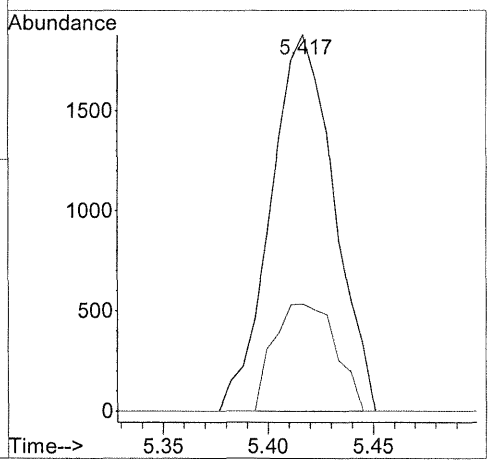


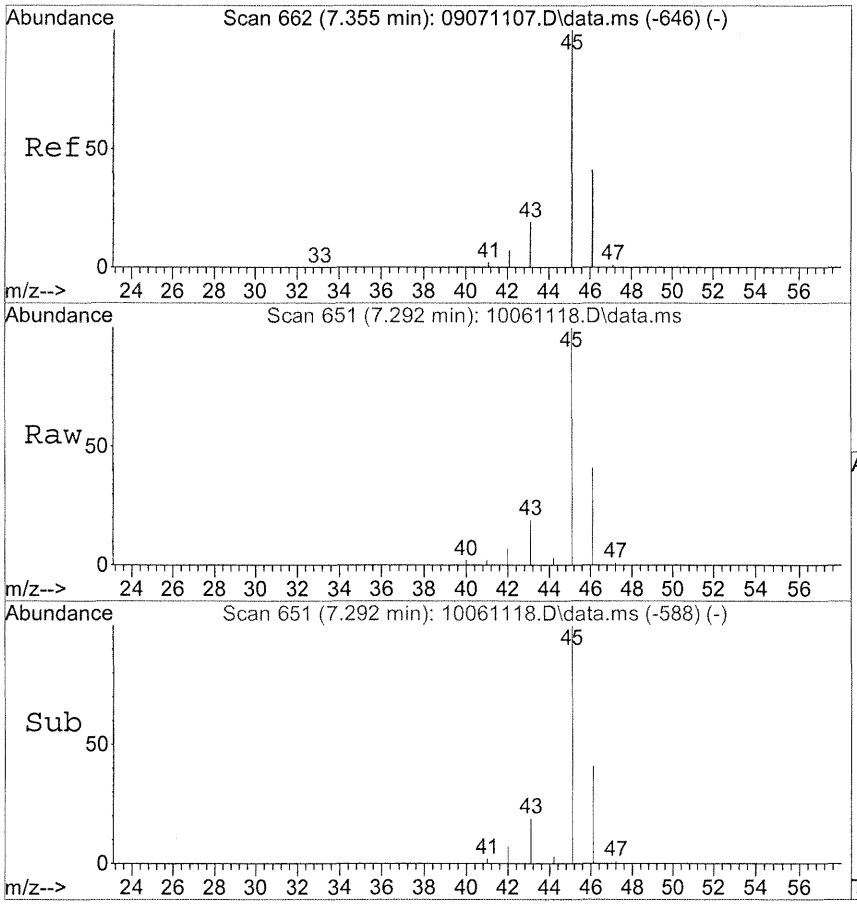


#4
Chloromethane
Concen: 0.15 ng
RT: 5.42 min Scan# 322
Delta R.T. -0.000 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 50 Resp: 3928

Ion	Ratio	Lower	Upper
50	100		
52	27.8	13.1	53.1

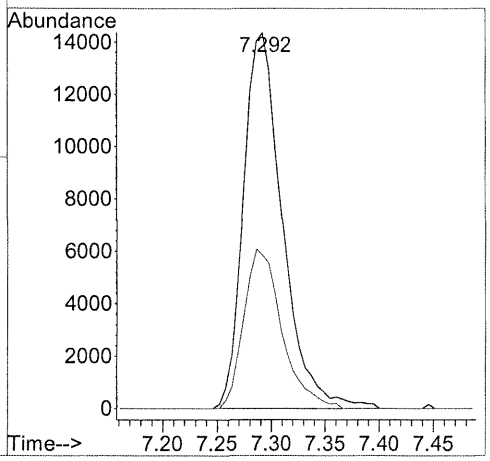


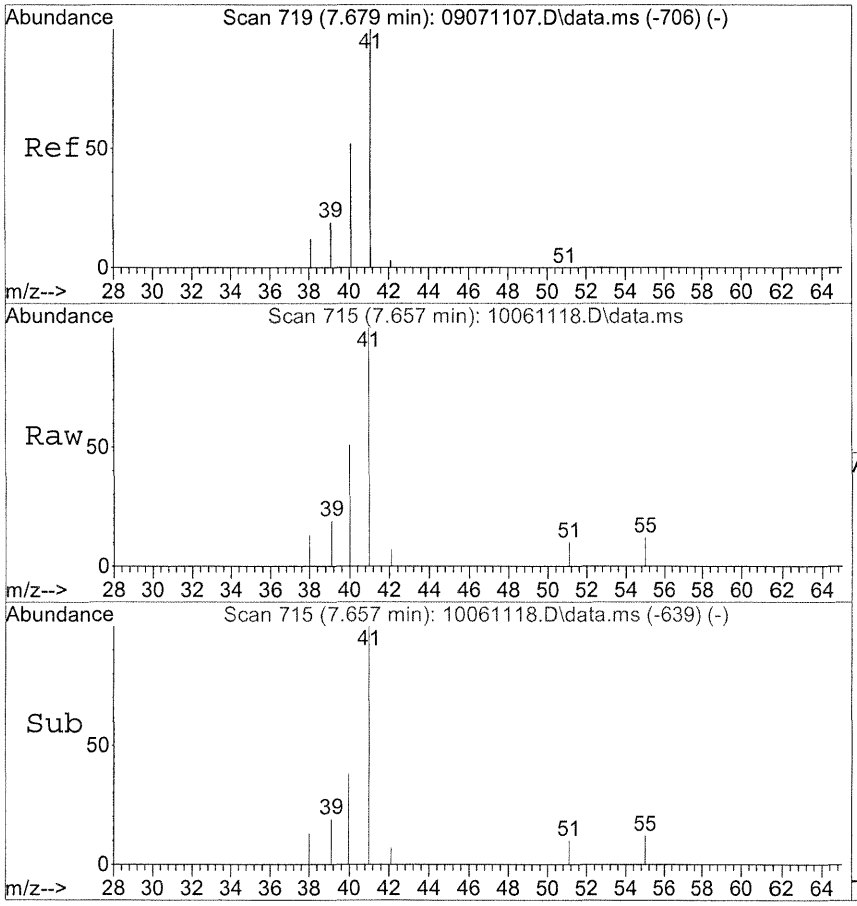


#10
Ethanol
Concen: 2.50 ng
RT: 7.29 min Scan# 651
Delta R.T. -0.143 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 45 Resp: 36074

Ion	Ratio	Lower	Upper
45	100		
46	41.5	20.7	60.7

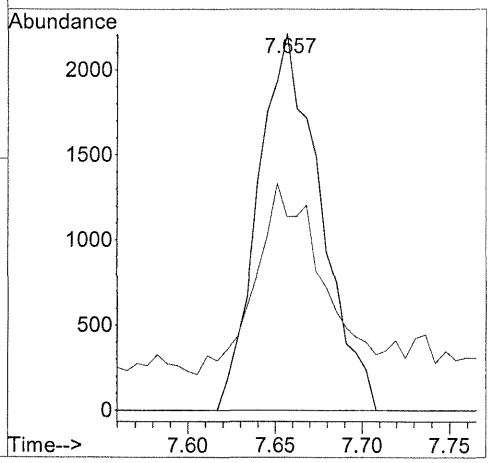


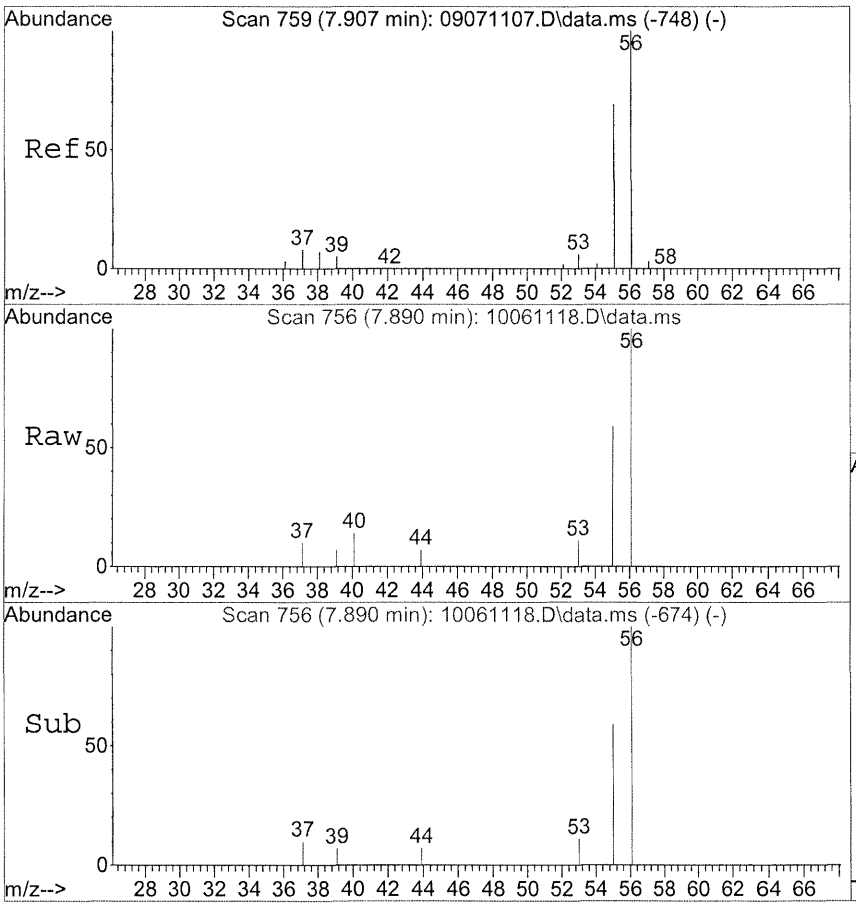


#11
Acetonitrile
Concen: 0.16 ng
RT: 7.66 min Scan# 715
Delta R.T. -0.069 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 41 Resp: 5515

Ion	Ratio	Lower	Upper
41	100		
40	56.3	31.5	71.5

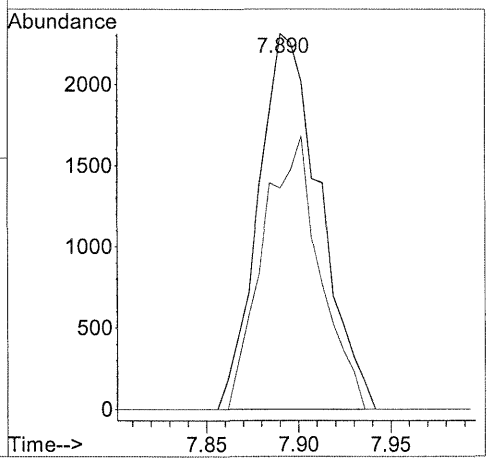


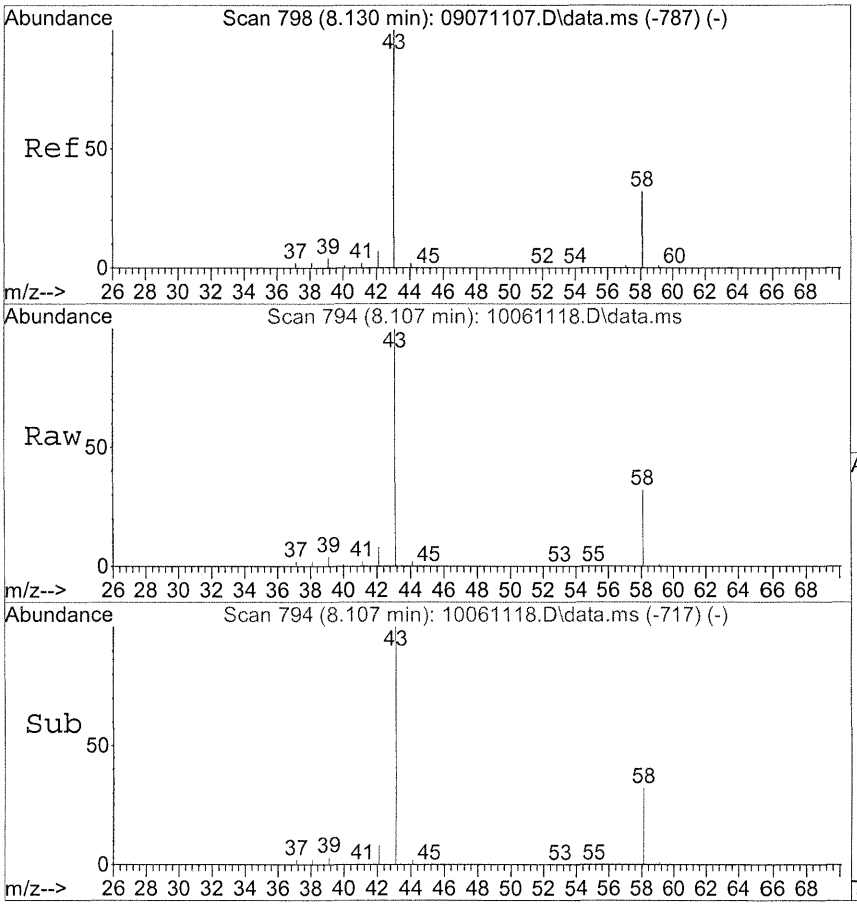


#12
Acrolein
Concen: 0.49 ng
RT: 7.89 min Scan# 756
Delta R.T. -0.034 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 56 Resp: 5359

Ion	Ratio	Lower	Upper
56	100		
55	67.3	50.1	90.1

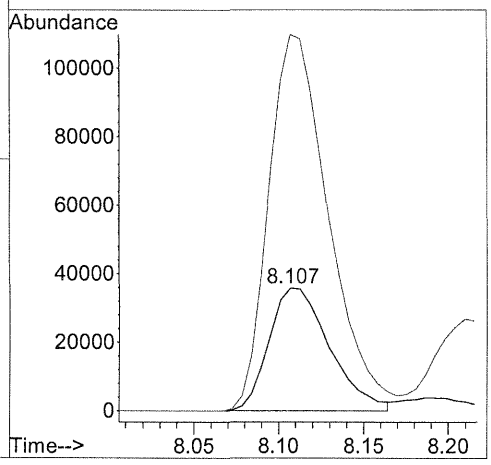


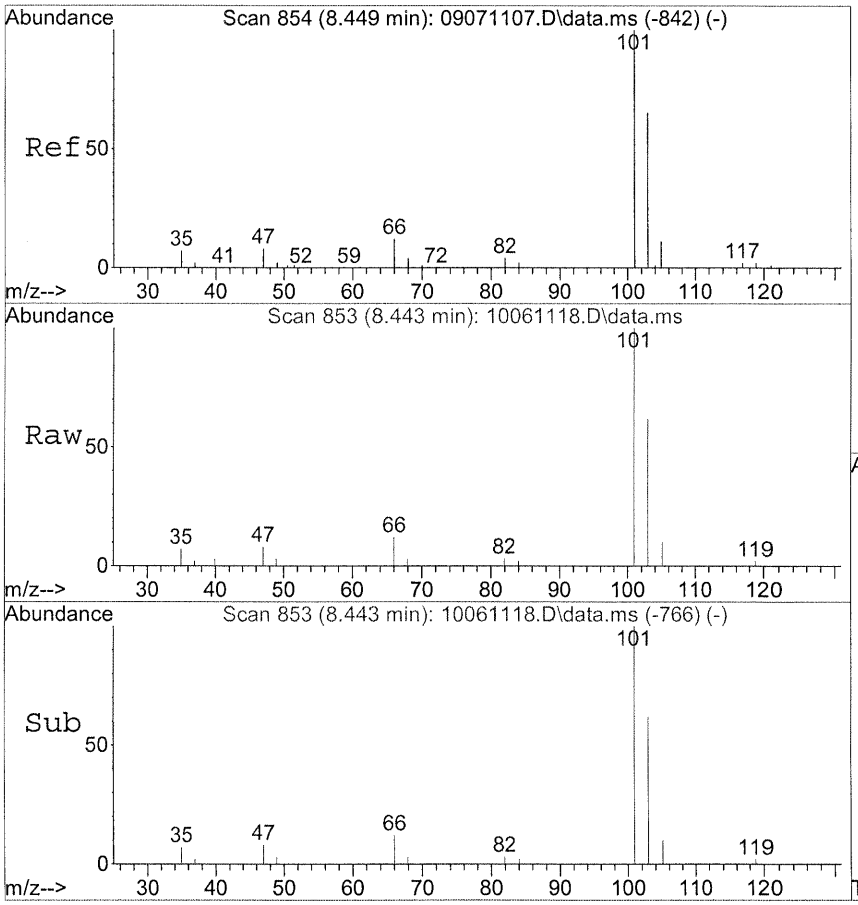


#13
Acetone
Concen: 6.40 ng m
RT: 8.11 min Scan# 794
Delta R.T. -0.063 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 58 Resp: 88413

Ion	Ratio	Lower	Upper
58	100		
43	0.0	283.8	343.8#

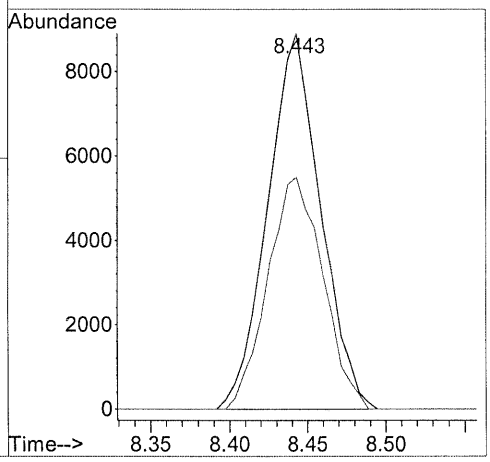


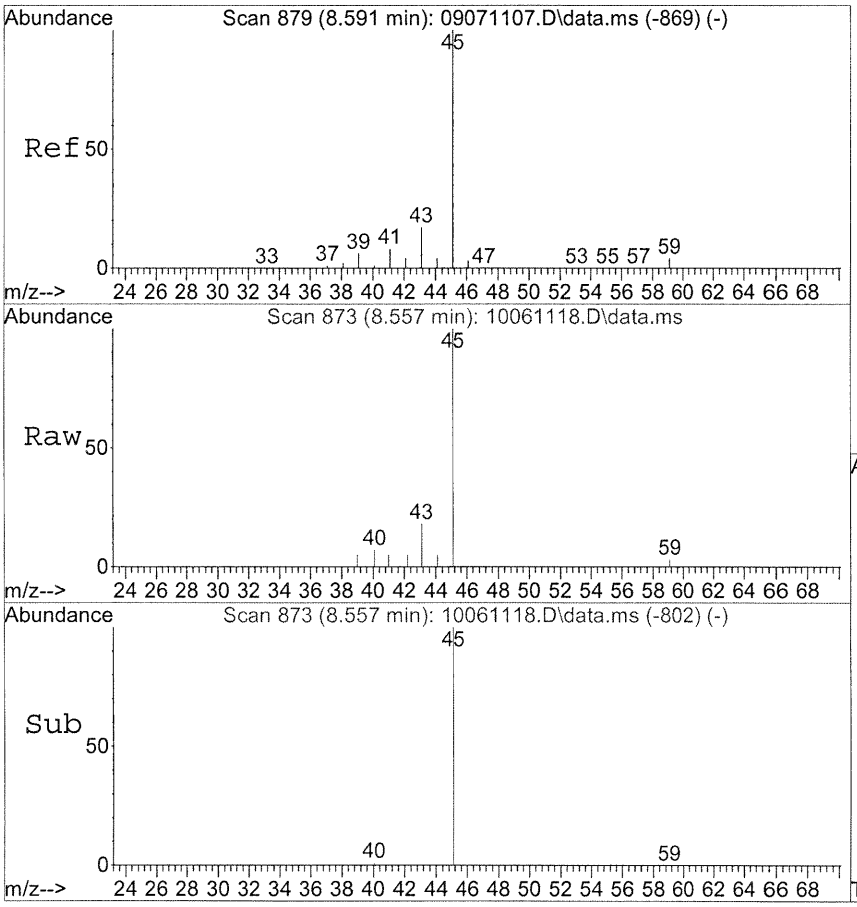


#14
Trichlorofluoromethane
Concen: 0.76 ng
RT: 8.44 min Scan# 853
Delta R.T. -0.006 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion:101 Resp: 21014

Ion	Ratio	Lower	Upper
101	100		
103	64.5	44.4	84.4

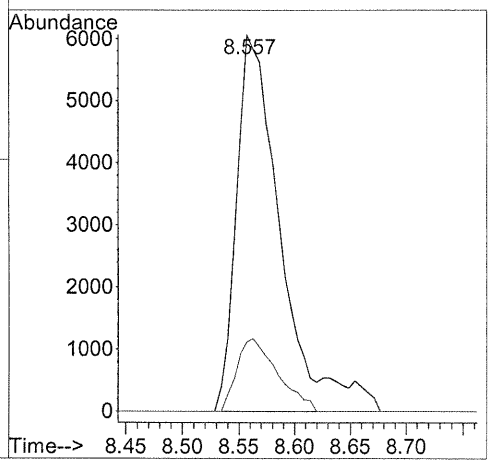


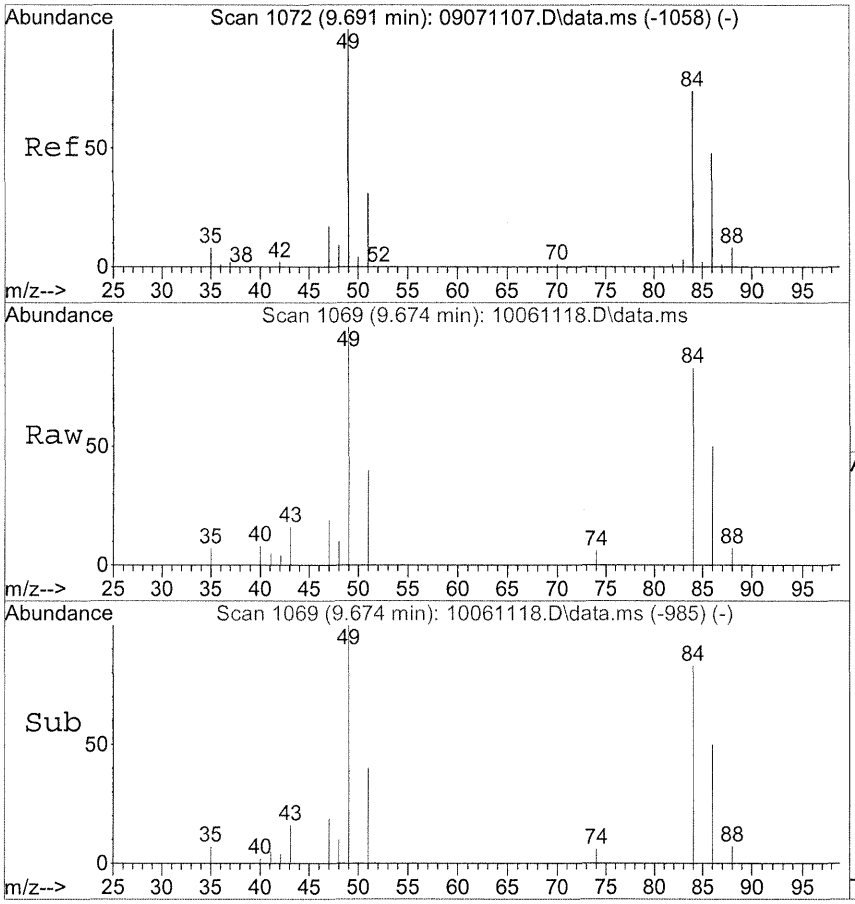


#15
2-Propanol (Isopropanol)
Concen: 0.43 ng
RT: 8.56 min Scan# 873
Delta R.T. -0.097 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 45 Resp: 16684

Ion	Ratio	Lower	Upper
45	100		
43	17.8	1.4	41.4

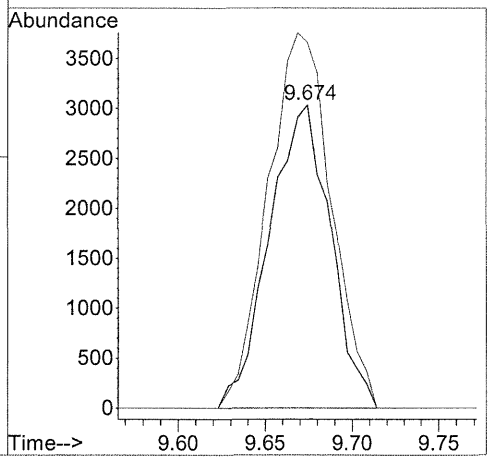


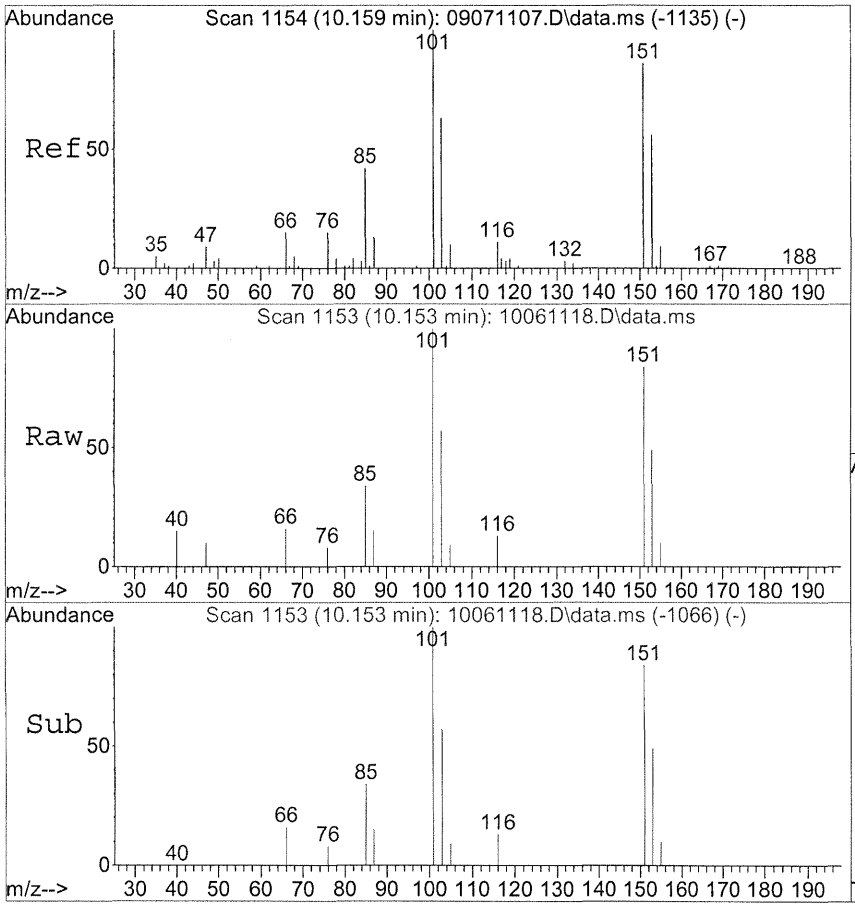


#19
Methylene Chloride
Concen: 0.43 ng
RT: 9.67 min Scan# 1069
Delta R.T. -0.023 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 84 Resp: 7399

Ion	Ratio	Lower	Upper
84	100		
49	129.1	90.4	140.4

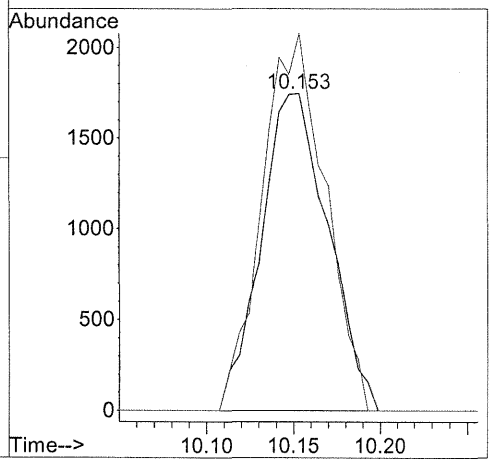


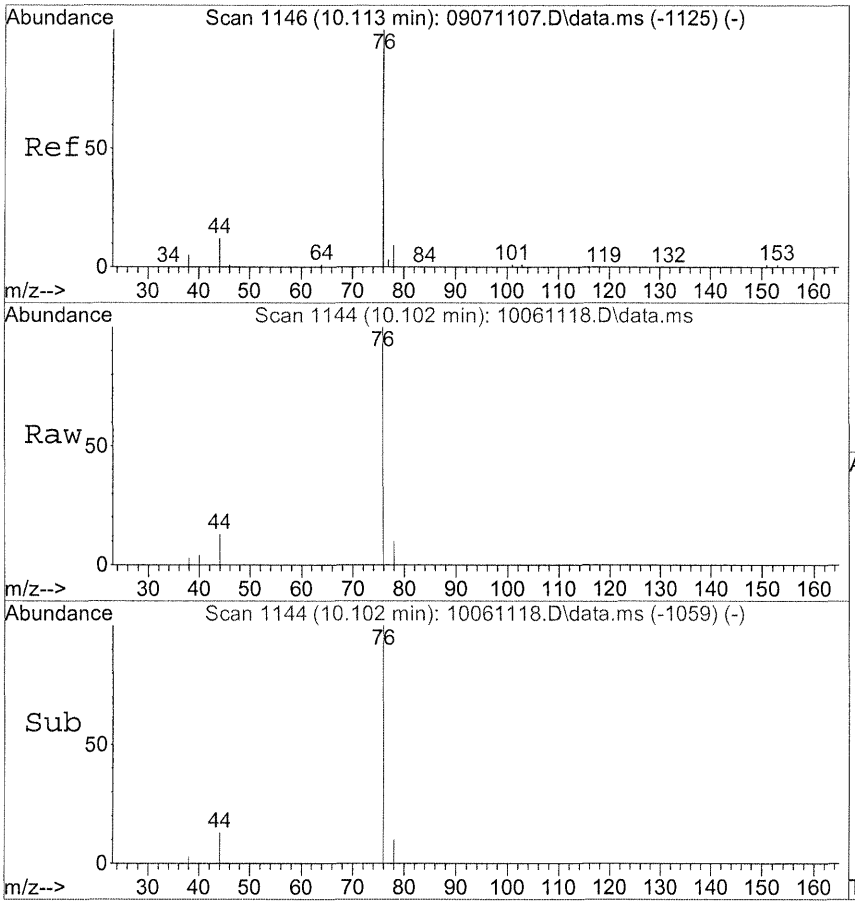


#21
Trichlorotrifluoroethane
Concen: 0.32 ng
RT: 10.15 min Scan# 1153
Delta R.T. -0.006 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion:151 Resp: 4672

Ion	Ratio	Lower	Upper
151	100		
101	112.4	99.7	139.7

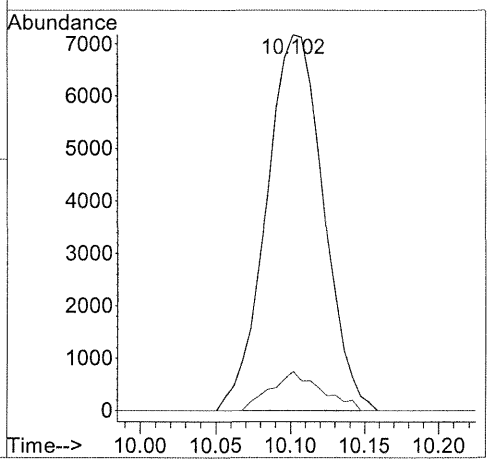


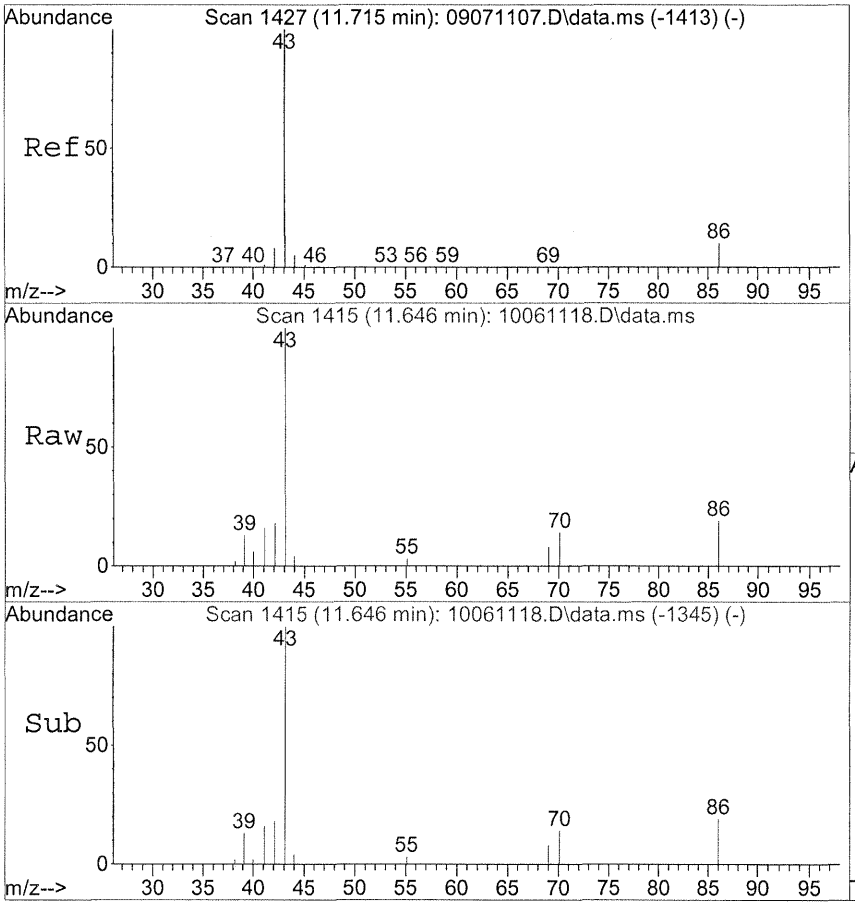


#22
Carbon Disulfide
Concen: 0.32 ng
RT: 10.10 min Scan# 1144
Delta R.T. -0.017 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 76 Resp: 19046

Ion	Ratio	Lower	Upper
76	100		
78	9.2	0.0	29.4

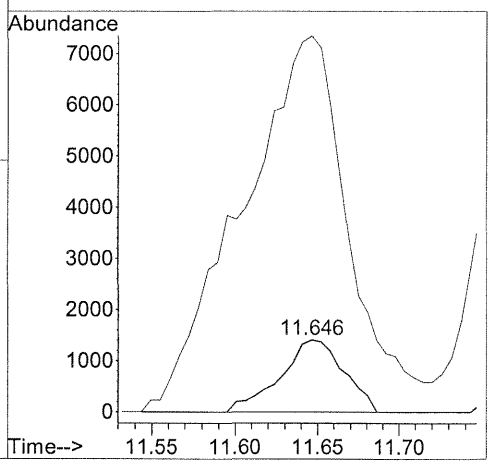


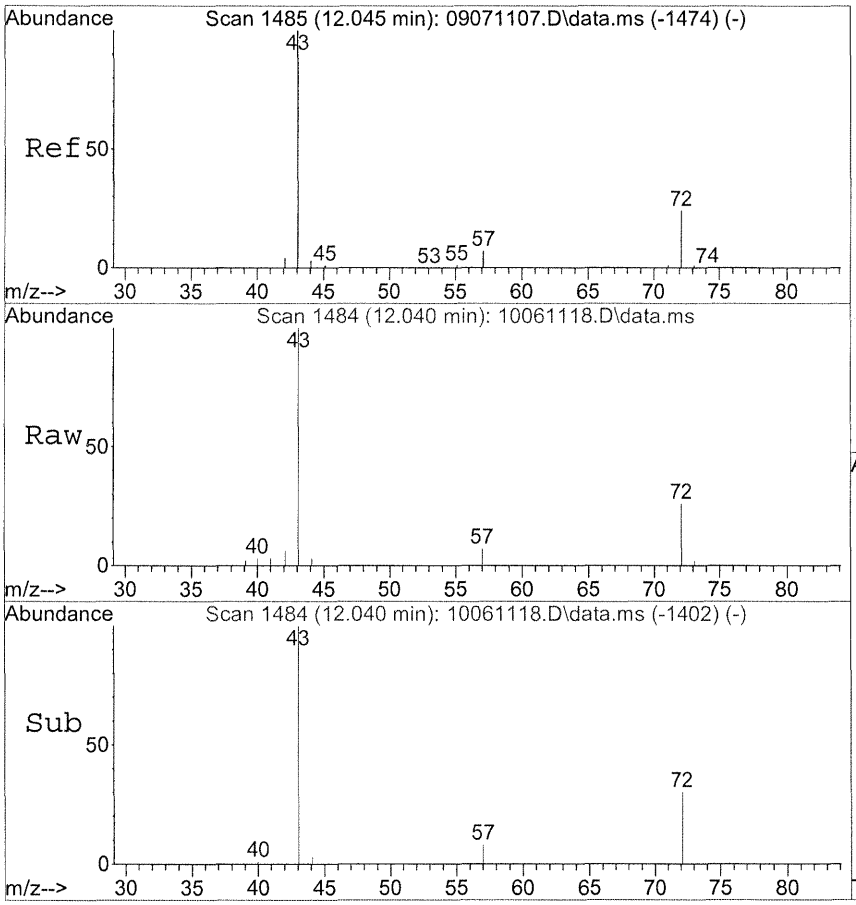


#26
Vinyl Acetate
Concen: 0.78 ng m
RT: 11.65 min Scan# 1415
Delta R.T. -0.103 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 86 Resp: 3770

Ion	Ratio	Lower	Upper
86	100		
43	506.7	825.7	865.7#

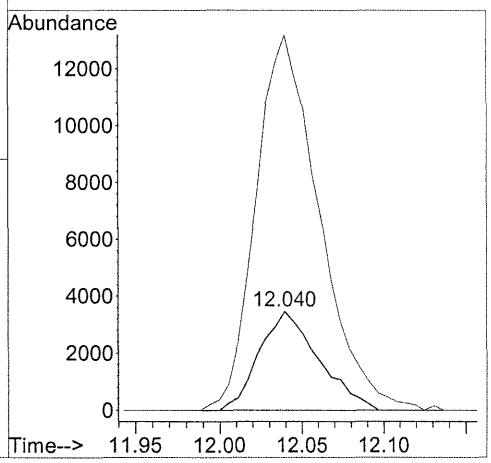


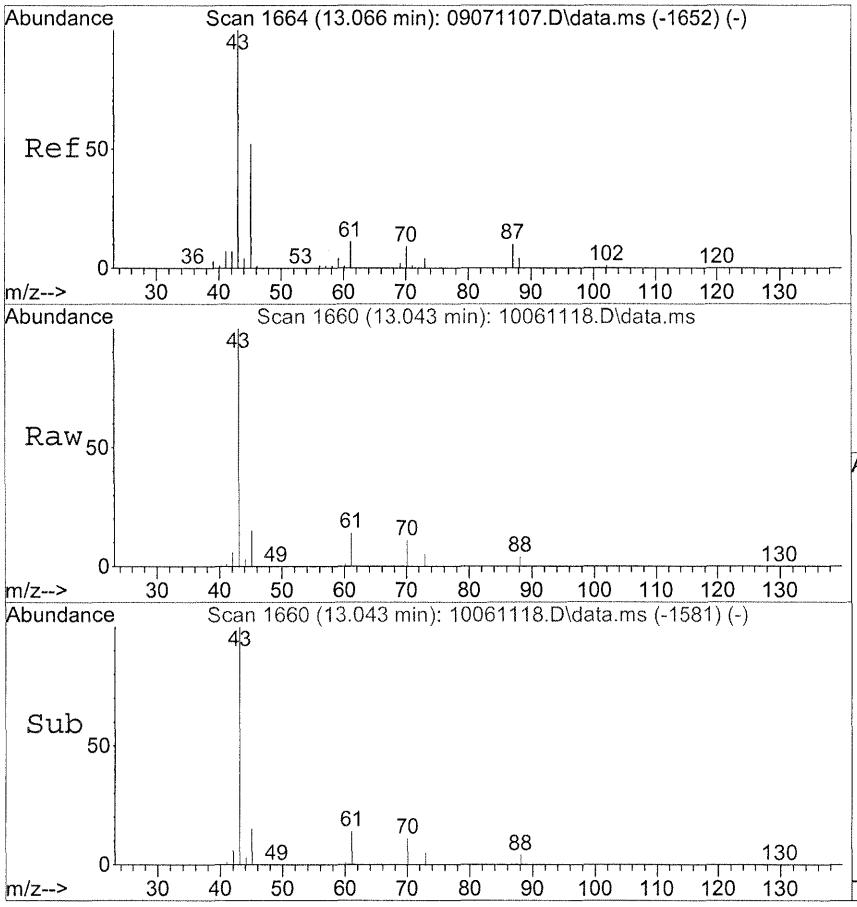


#27
2-Butanone (MEK)
Concen: 0.73 ng
RT: 12.04 min Scan# 1484
Delta R.T. -0.034 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 72 Resp: 8686

Ion	Ratio	Lower	Upper
72	100		
43	408.4	304.7	344.7#

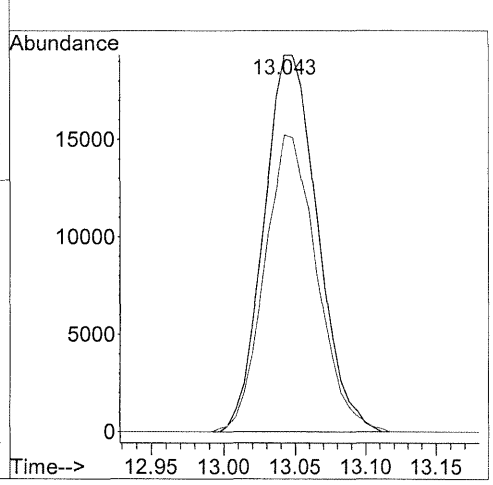


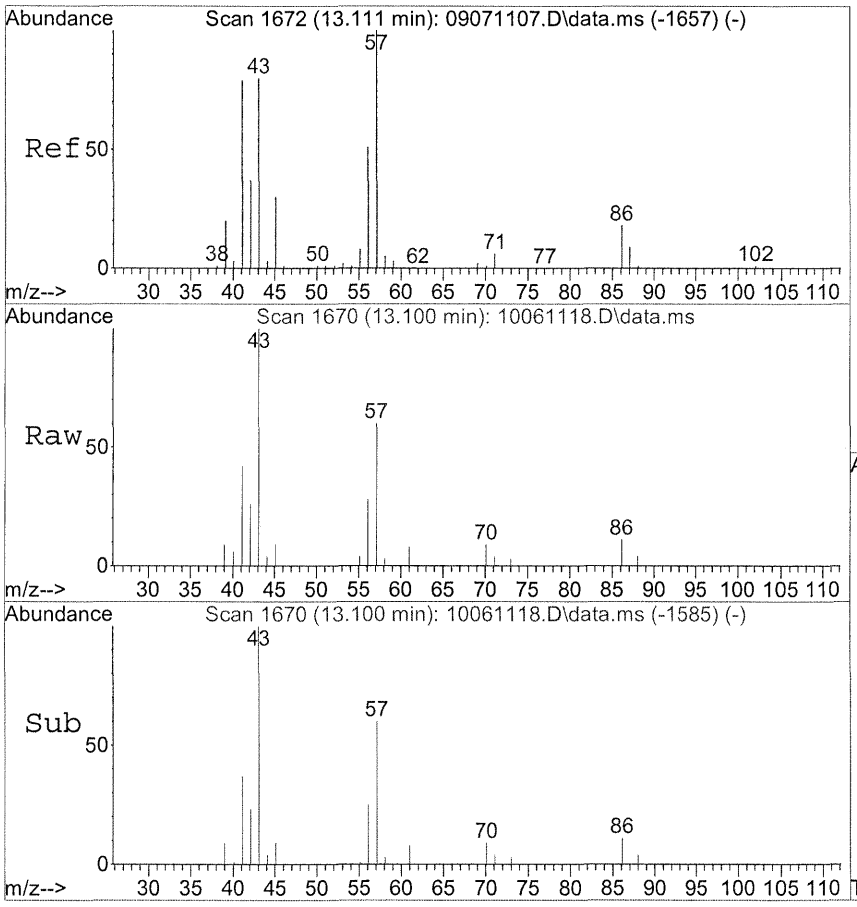


#30
Ethyl Acetate
Concen: 7.87 ng
RT: 13.04 min Scan# 1660
Delta R.T. -0.051 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 61 Resp: 50828

Ion	Ratio	Lower	Upper
61	100		
70	76.7	75.3	115.3

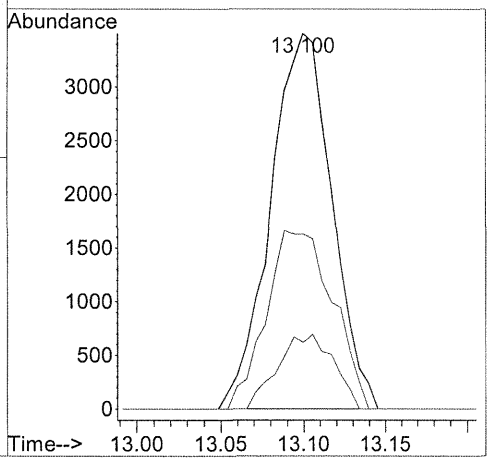


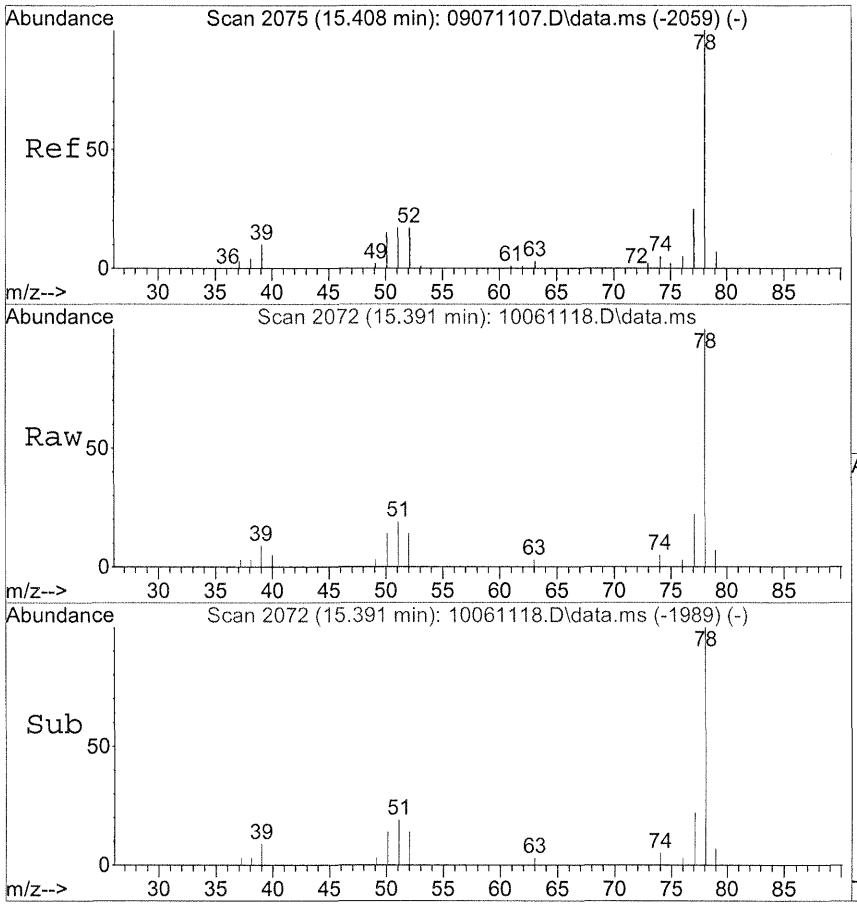


#31
n-Hexane
Concen: 0.27 ng
RT: 13.10 min Scan# 1670
Delta R.T. -0.017 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 57 Resp: 9023

Ion	Ratio	Lower	Upper
57	100		
56	51.4	41.8	62.8
86	18.0	17.0	25.4

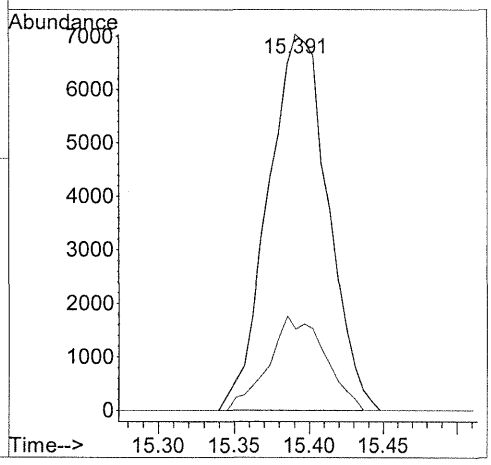


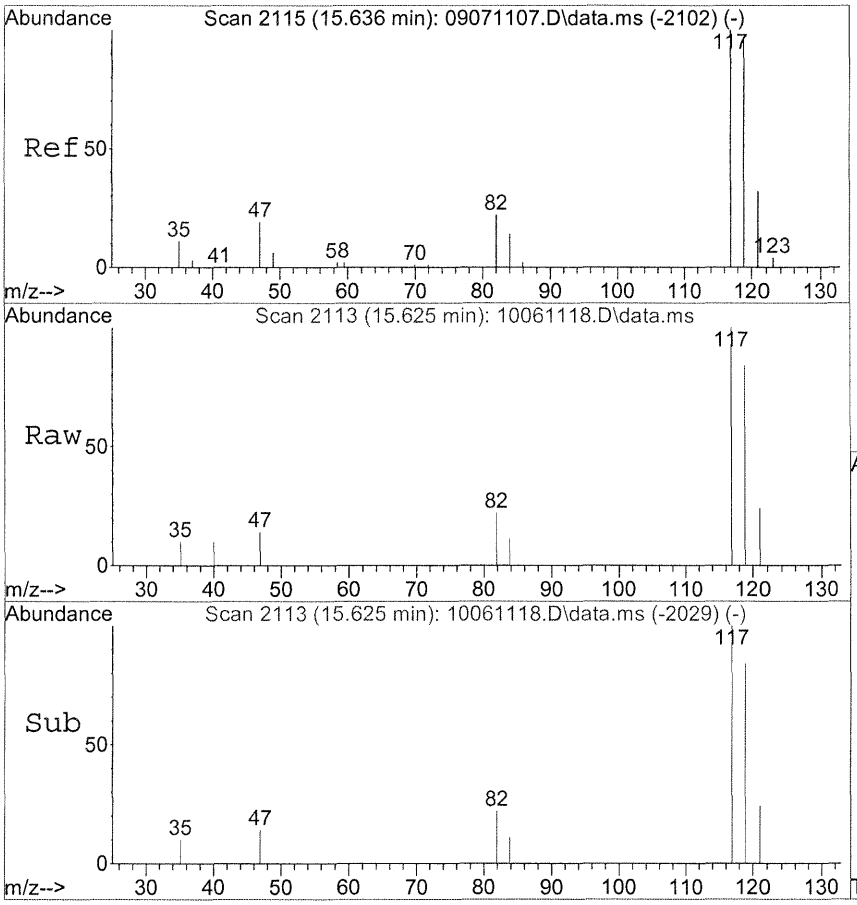


#41
Benzene
Concen: 0.30 ng
RT: 15.39 min Scan# 2072
Delta R.T. -0.029 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 78 Resp: 19463

Ion	Ratio	Lower	Upper
78	100		
77	23.4	4.0	44.0

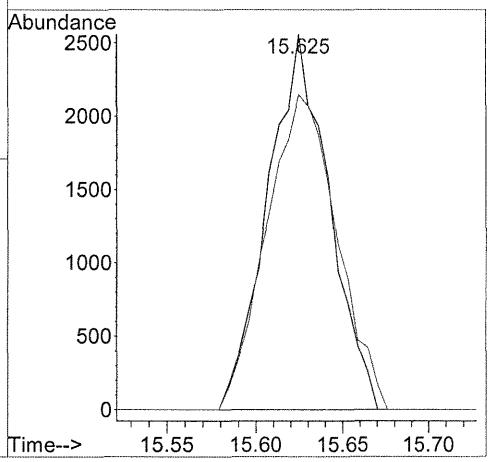


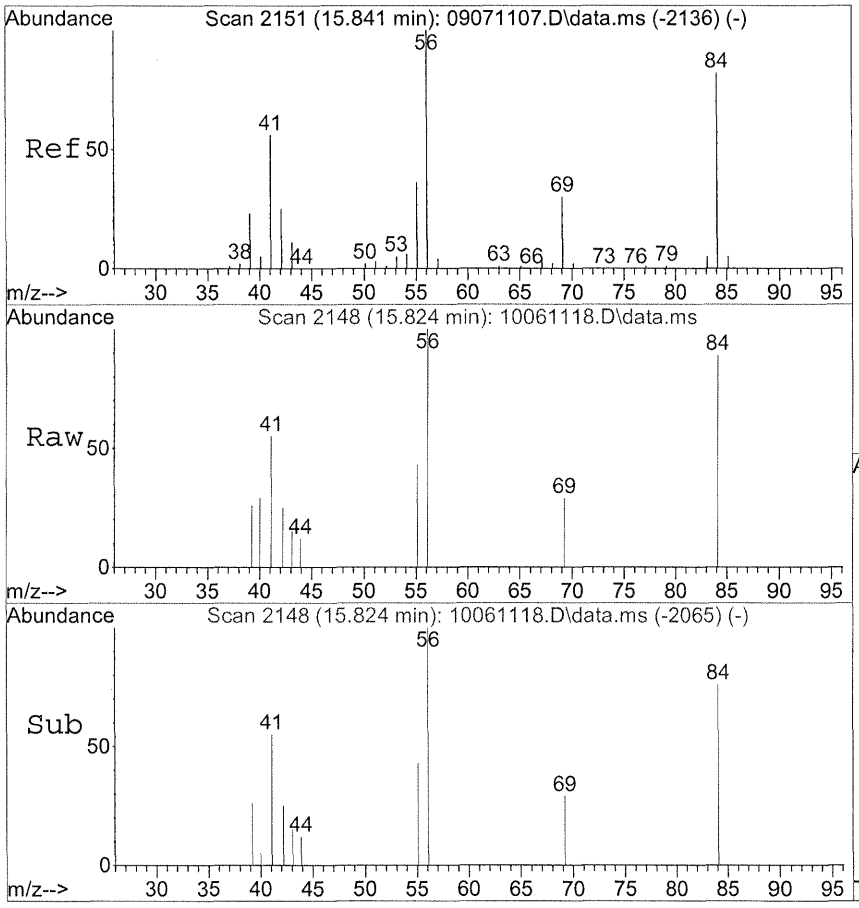


#42
Carbon Tetrachloride
Concen: 0.31 ng
RT: 15.62 min Scan# 2113
Delta R.T. -0.023 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion:117 Resp: 6267

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.0	117.0

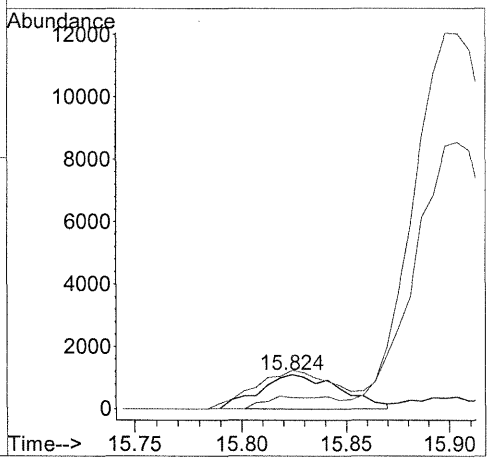


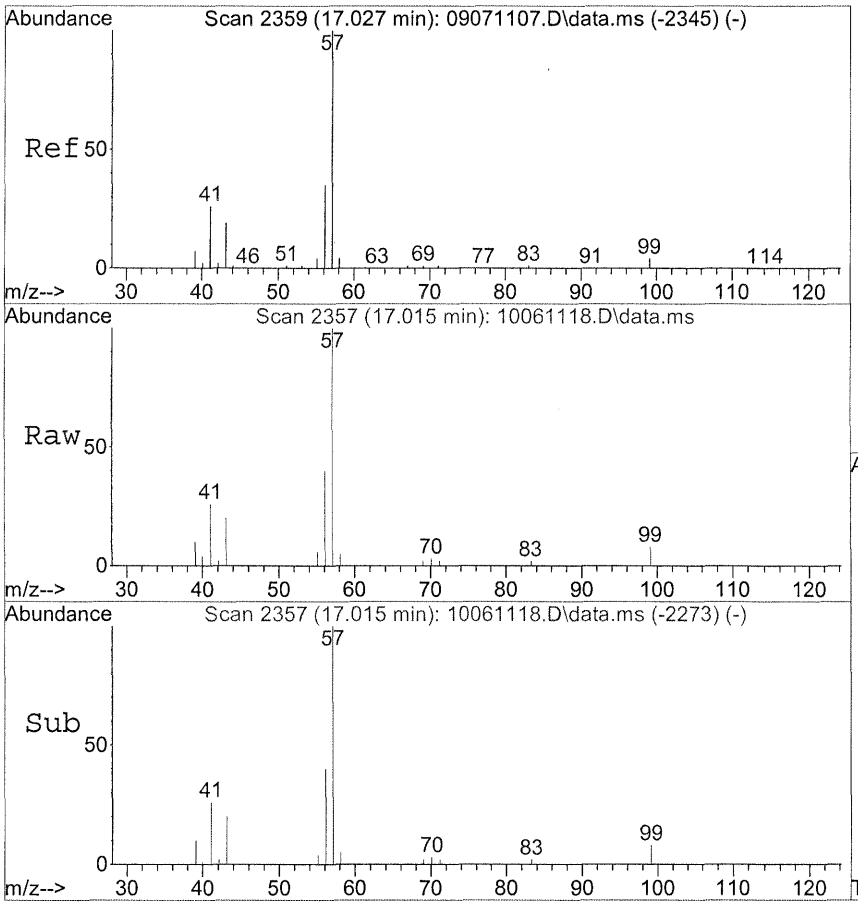


#43
Cyclohexane
Concen: 0.10 ng
RT: 15.82 min Scan# 2148
Delta R.T. -0.029 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 84 Resp: 2919

Ion	Ratio	Lower	Upper
84	100		
69	29.8	16.9	56.9
56	109.3	87.7	127.7

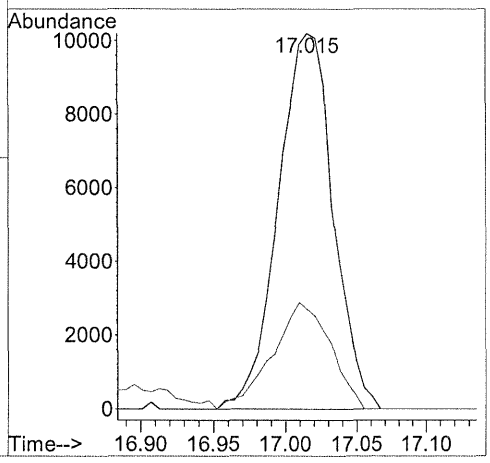


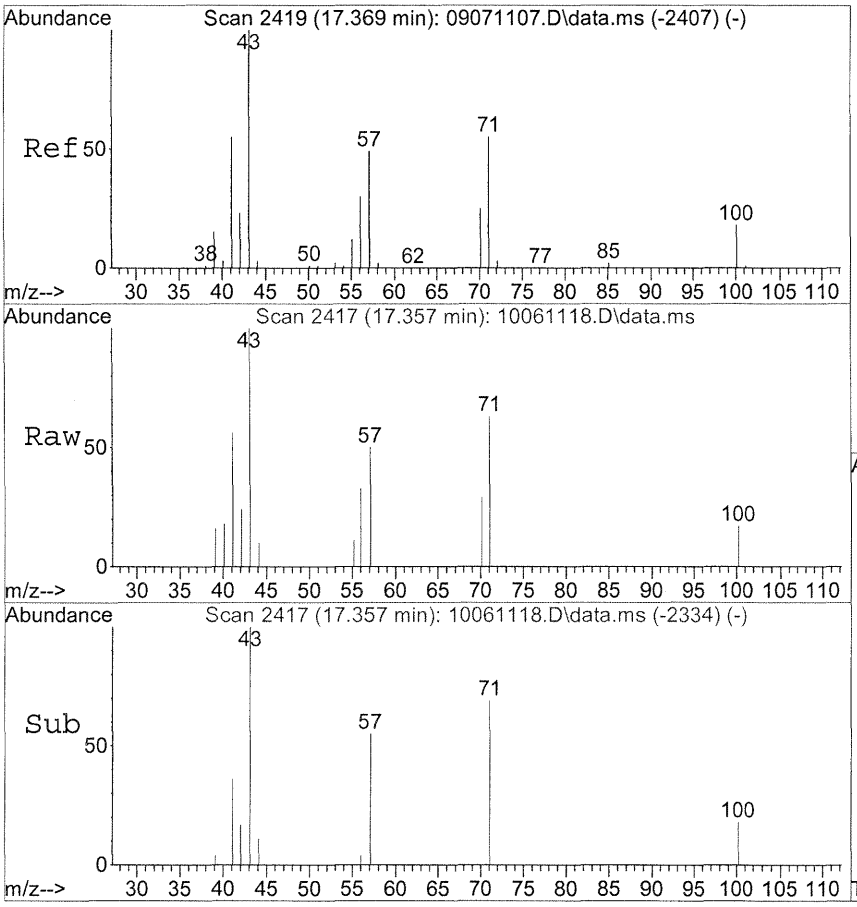


#49
2,2,4-Trimethylpentane (Isooc
Concen: 0.34 ng
RT: 17.02 min Scan# 2357
Delta R.T. -0.023 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 57 Resp: 27225

Ion	Ratio	Lower	Upper
57	100		
41	29.8	10.2	50.2

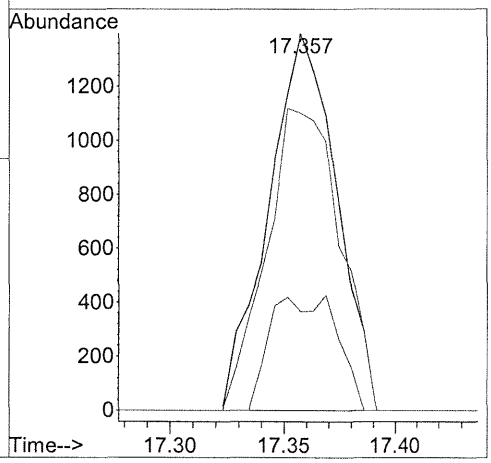


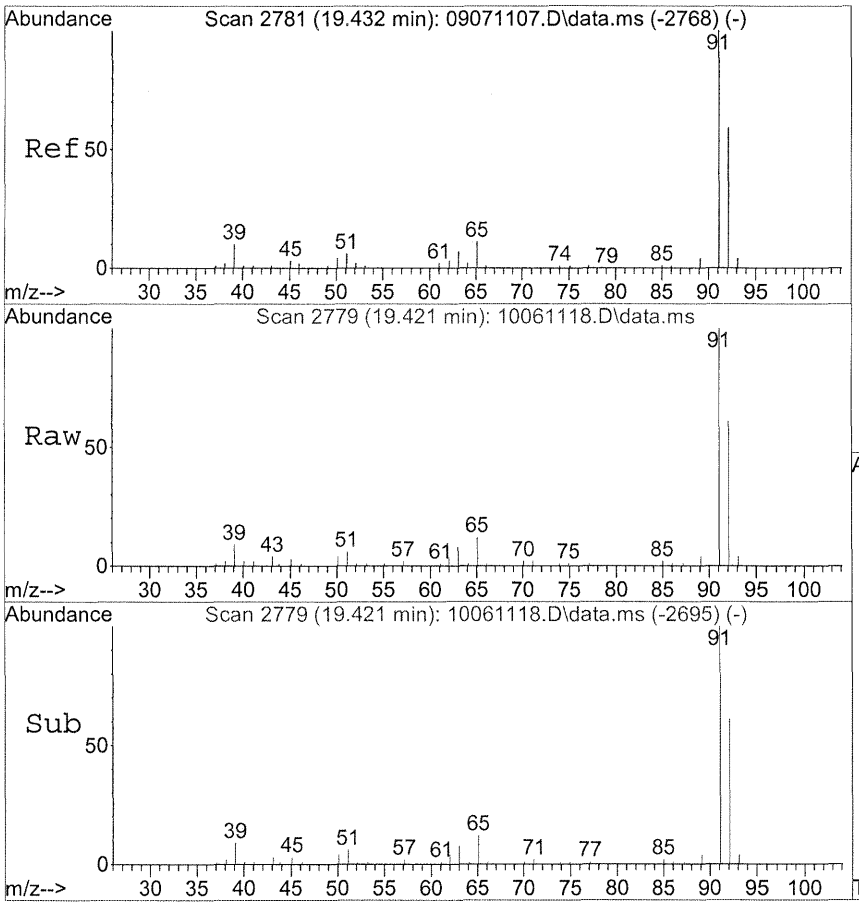


#51
n-Heptane
Concen: 0.15 ng
RT: 17.36 min Scan# 2417
Delta R.T. -0.029 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 71 Resp: 2935

Ion	Ratio	Lower	Upper
71	100		
57	86.5	59.7	99.7
100	29.7	15.2	55.2

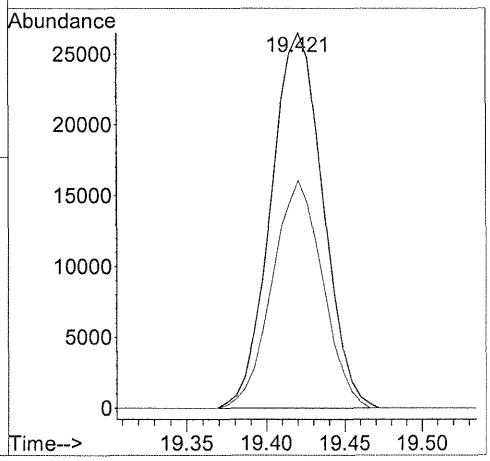


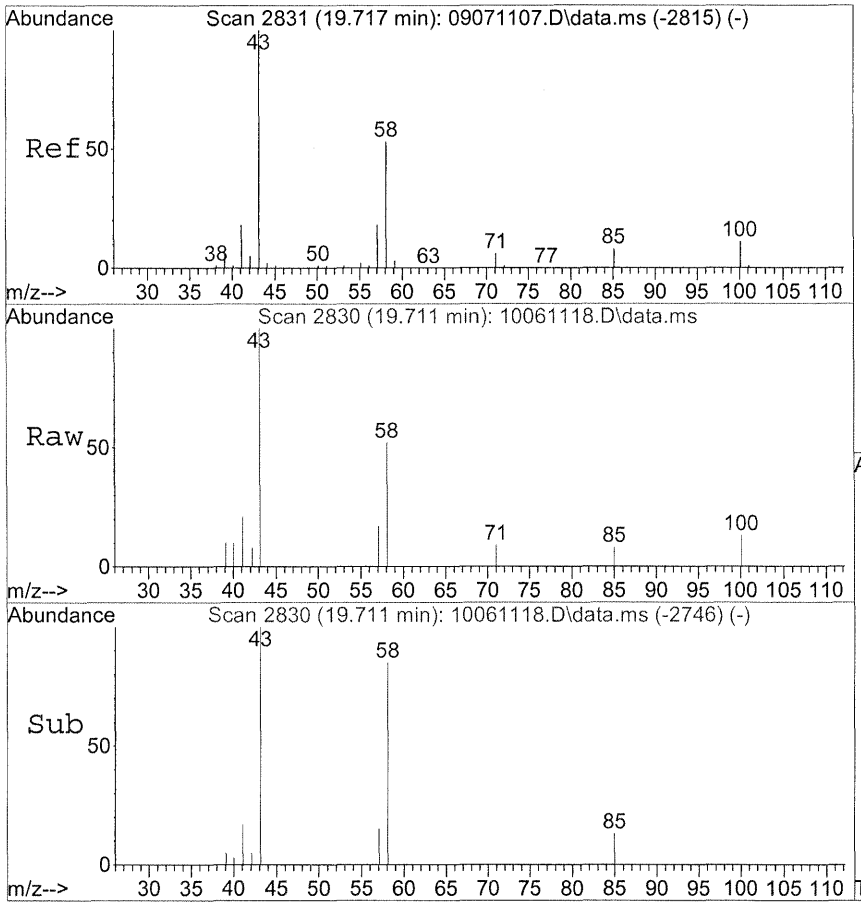


#58
Toluene
Concen: 0.86 ng
RT: 19.42 min Scan# 2779
Delta R.T. -0.023 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 91 Resp: 61033

Ion	Ratio	Lower	Upper
91	100		
92	58.9	38.8	78.8

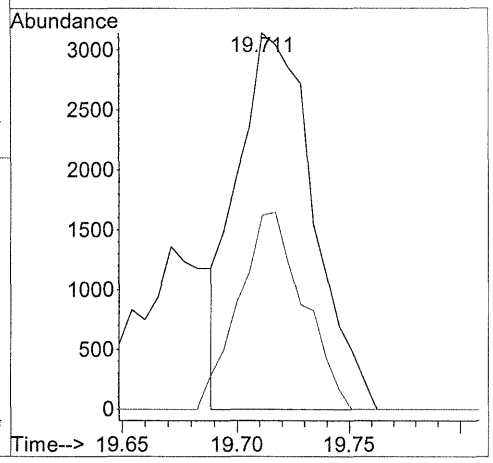


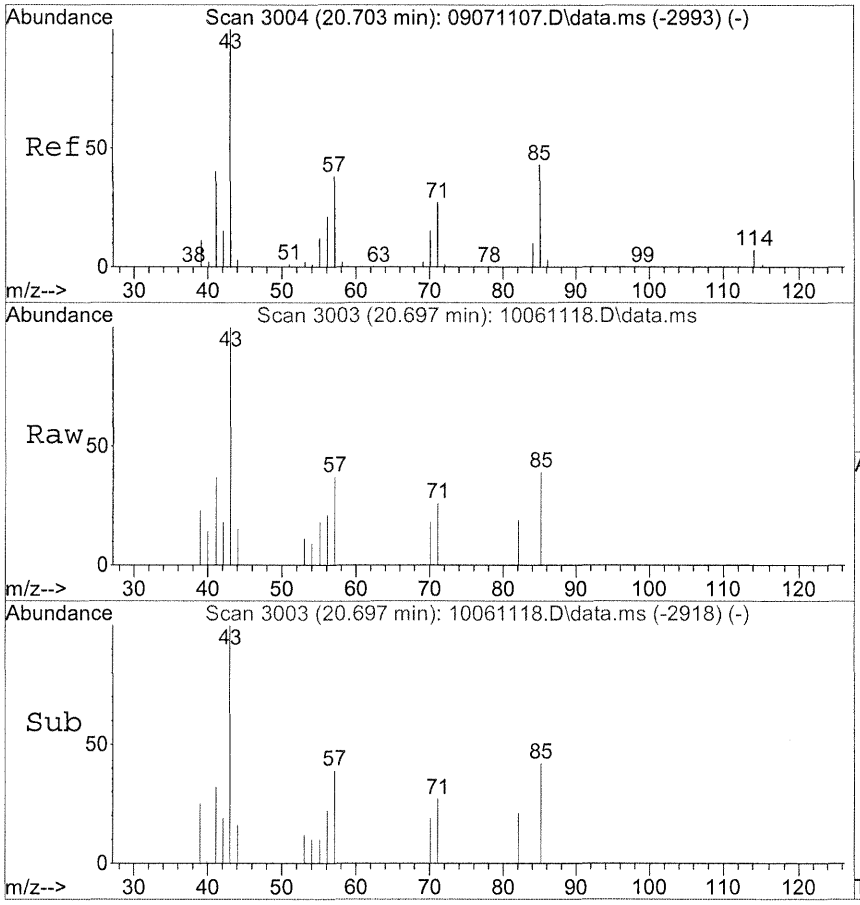


#59
2-Hexanone
Concen: 0.19 ng
RT: 19.71 min Scan# 2830
Delta R.T. -0.023 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 43 Resp: 7412

Ion	Ratio	Lower	Upper
43	100		
58	44.4	37.7	77.7

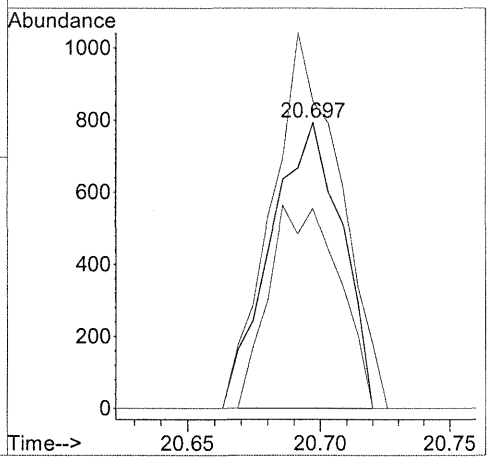


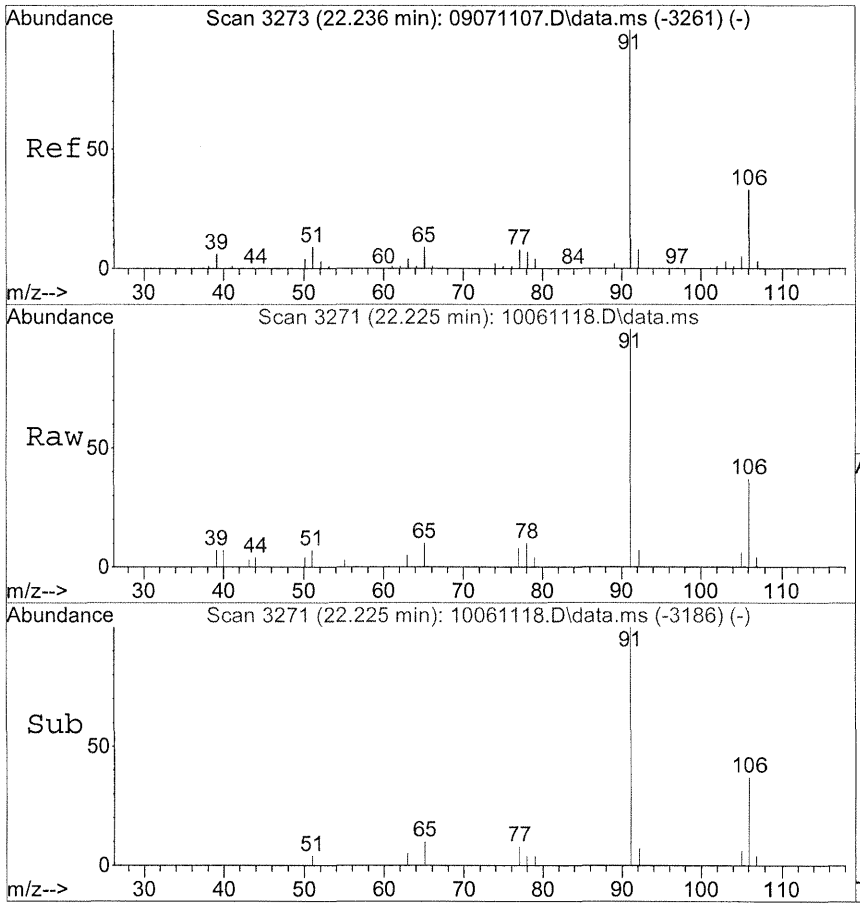


#63
n-Octane
Concen: 0.09 ng
RT: 20.70 min Scan# 3003
Delta R.T. -0.017 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 57 Resp: 1485

Ion	Ratio	Lower	Upper
57	100		
85	126.7	110.6	166.0
71	70.3	61.0	91.6

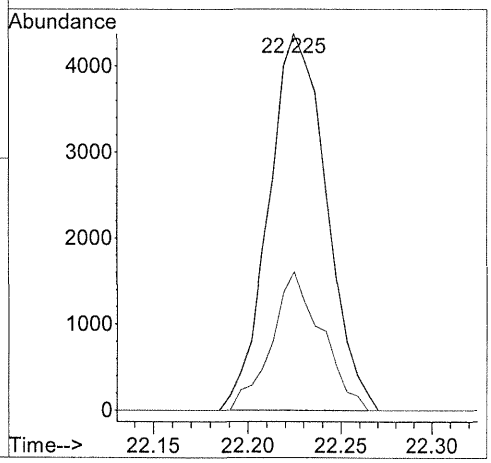


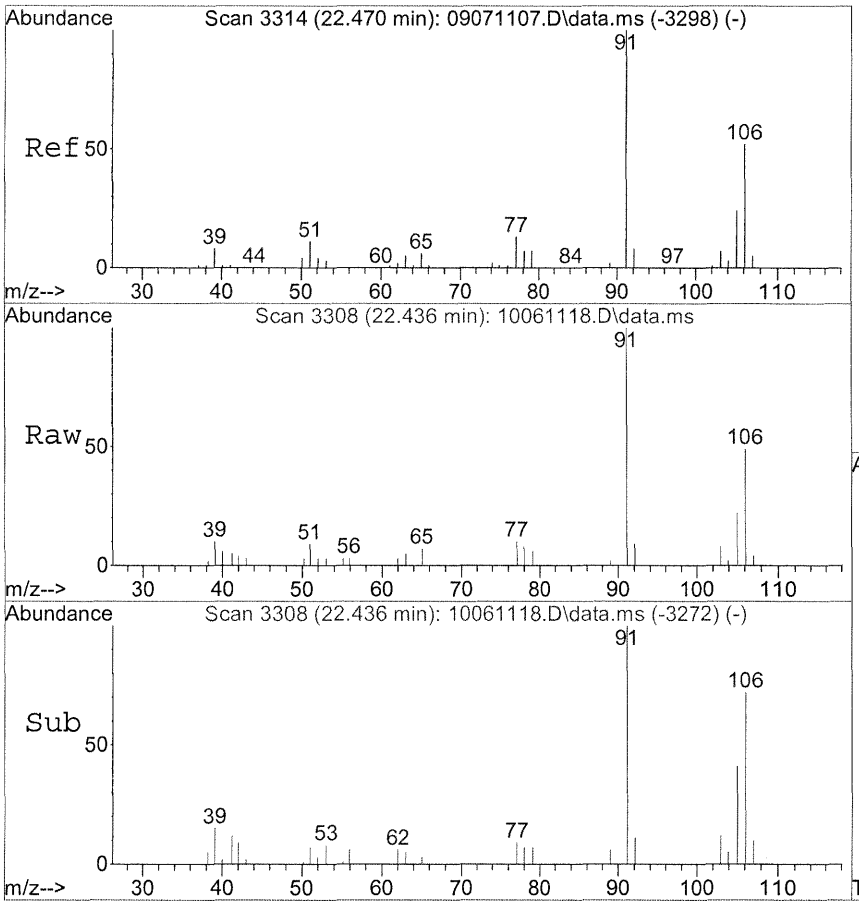


#66
Ethylbenzene
Concen: 0.12 ng
RT: 22.22 min Scan# 3271
Delta R.T. -0.017 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 91 Resp: 9406

Ion	Ratio	Lower	Upper
91	100		
106	31.9	12.0	52.0

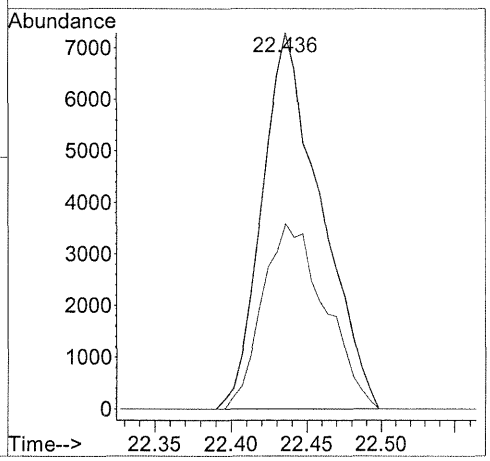


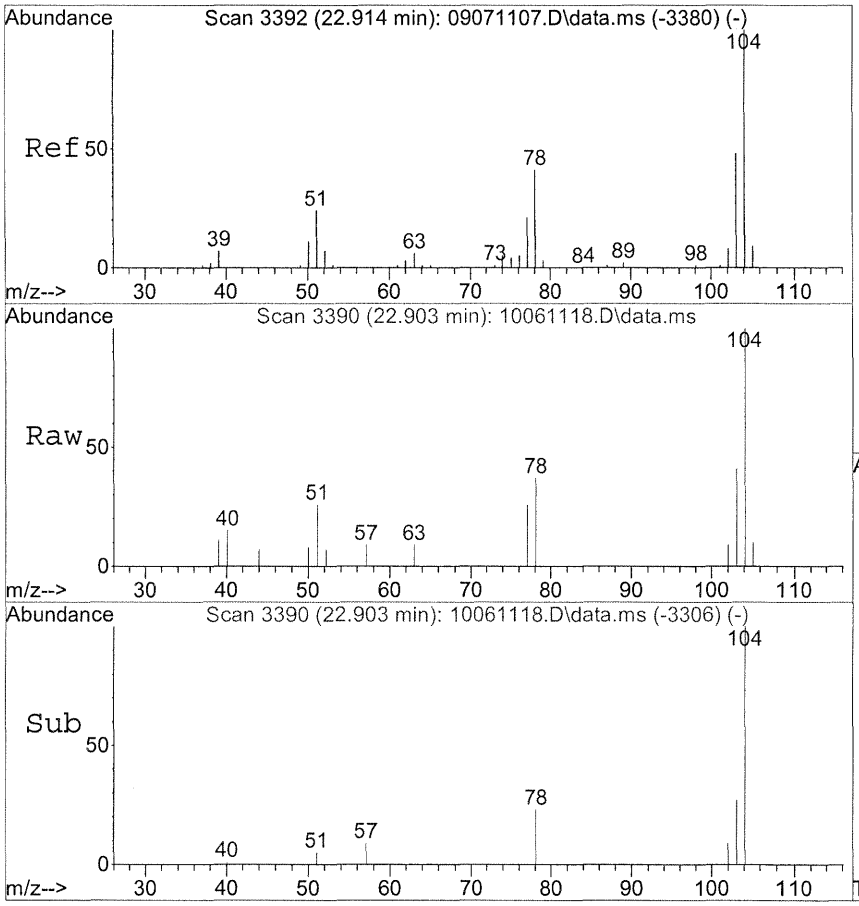


#67
m- & p-Xylenes
Concen: 0.32 ng
RT: 22.44 min Scan# 3308
Delta R.T. -0.046 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 91 Resp: 19755

Ion	Ratio	Lower	Upper
91	100		
106	52.3	27.4	67.4

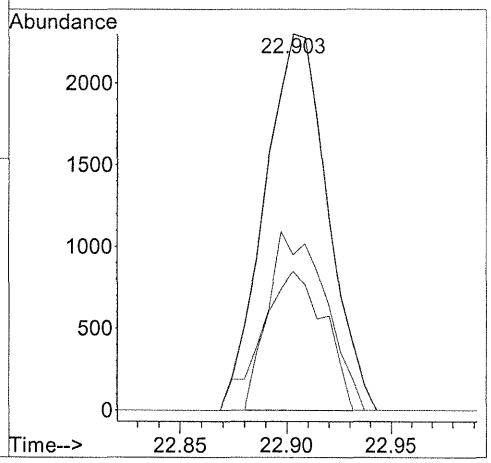


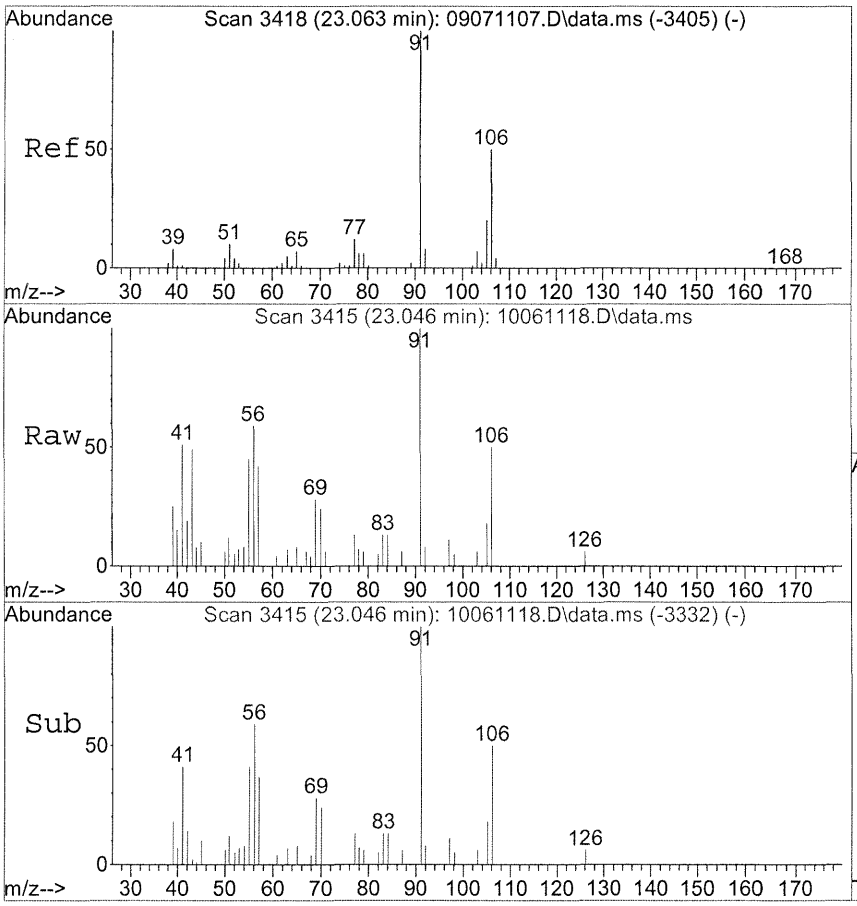


#69
Styrene
Concen: 0.10 ng
RT: 22.90 min Scan# 3390
Delta R.T. -0.023 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion:104 Resp: 4772

Ion	Ratio	Lower	Upper
104	100		
78	33.9	27.4	67.4
103	46.4	27.3	67.3

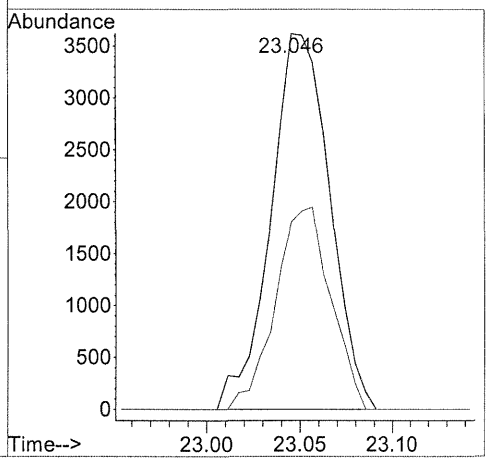


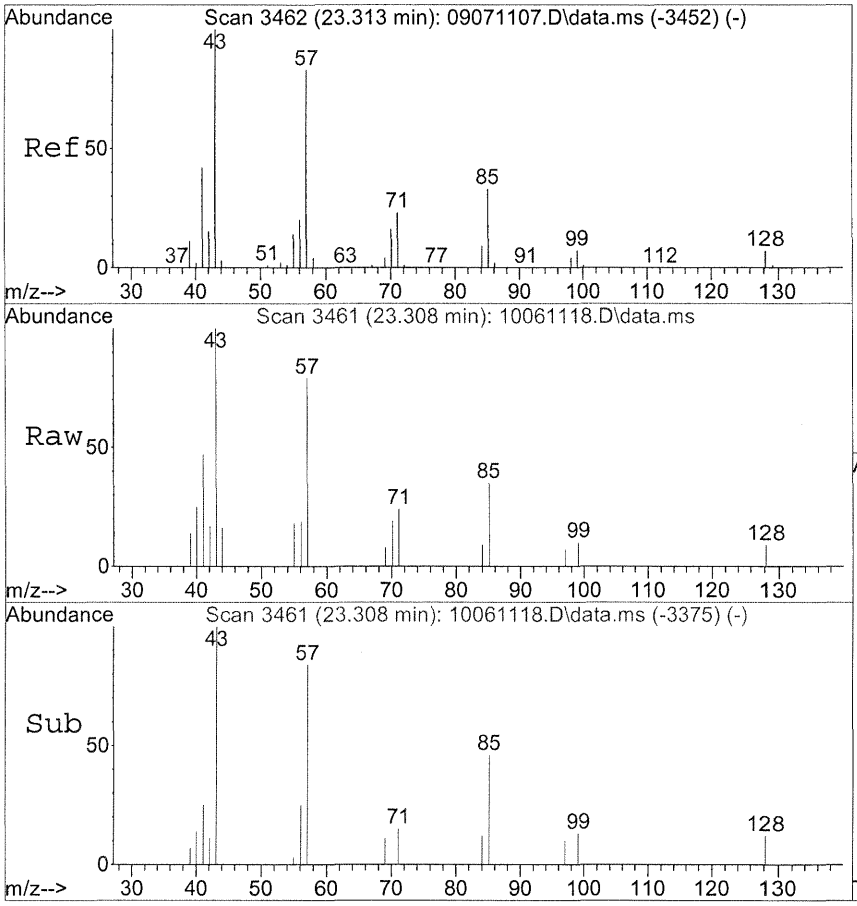


#70
o-Xylene
Concen: 0.12 ng
RT: 23.05 min Scan# 3415
Delta R.T. -0.029 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 91 Resp: 7975

Ion	Ratio	Lower	Upper
91	100		
106	50.3	25.7	65.7

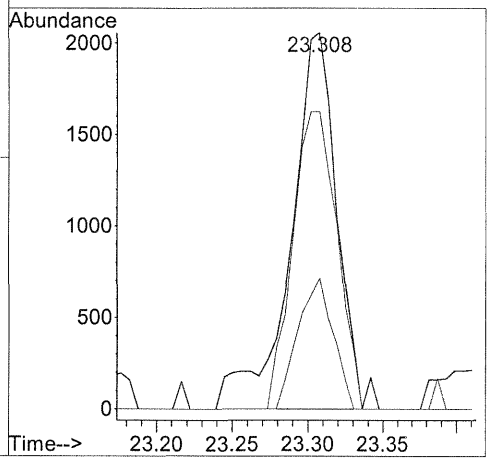


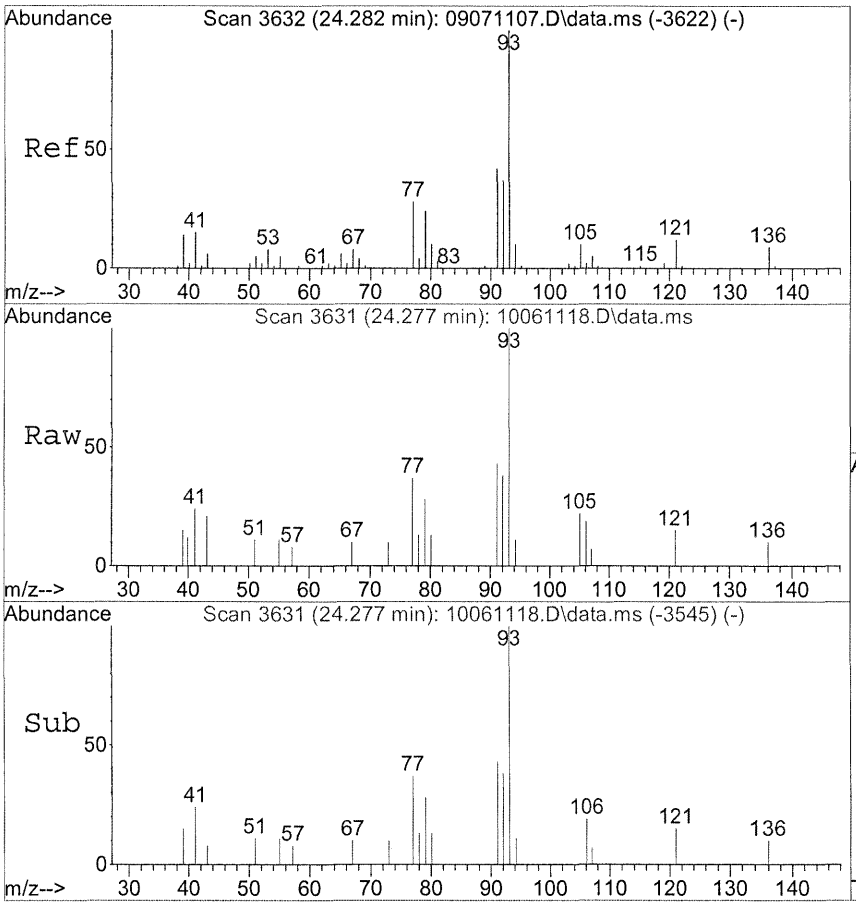


#71
n-Nonane
Concen: 0.10 ng
RT: 23.31 min Scan# 3461
Delta R.T. -0.012 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 43 Resp: 4361

Ion	Ratio	Lower	Upper
43	100		
57	75.8	75.1	115.1
85	26.4	22.0	62.0

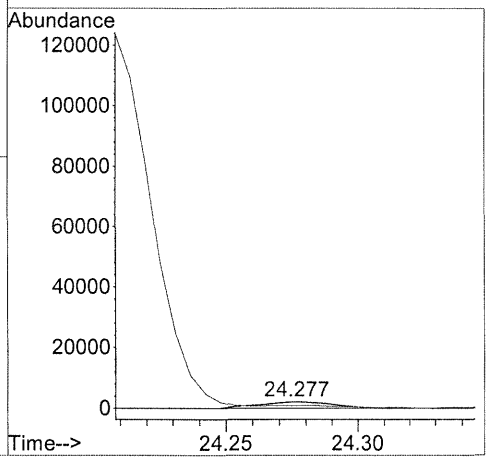


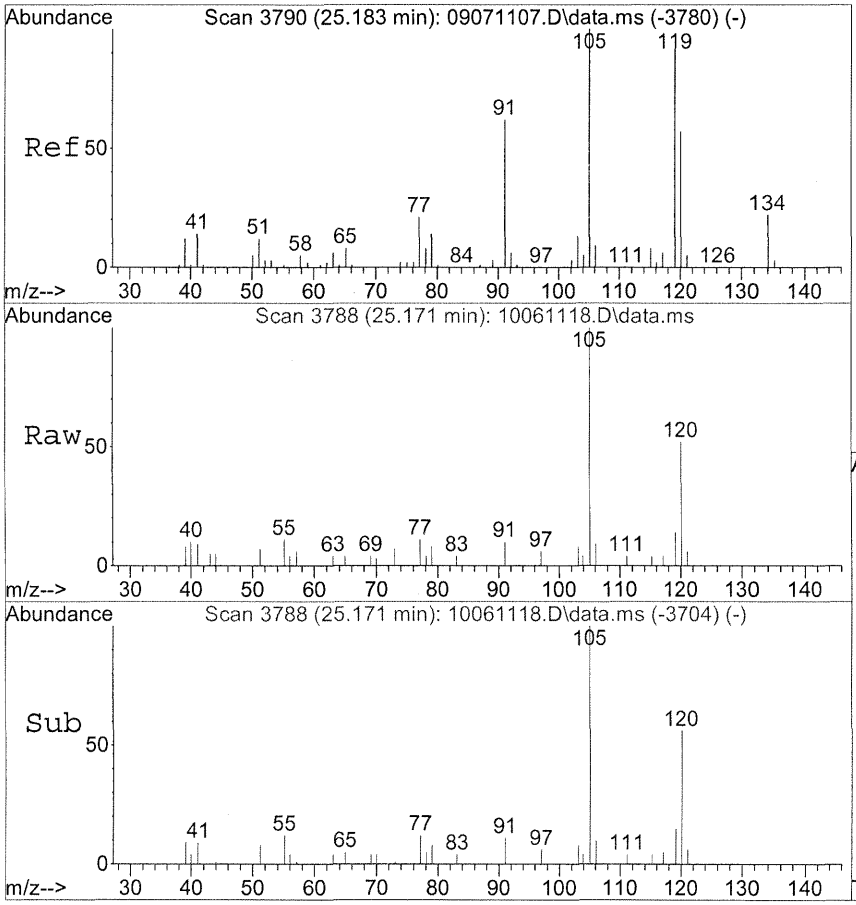


#75
alpha-Pinene
Concen: 0.09 ng
RT: 24.28 min Scan# 3631
Delta R.T. -0.012 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 93 Resp: 3817

Ion	Ratio	Lower	Upper
93	100		
77	0.0	12.5	52.5#

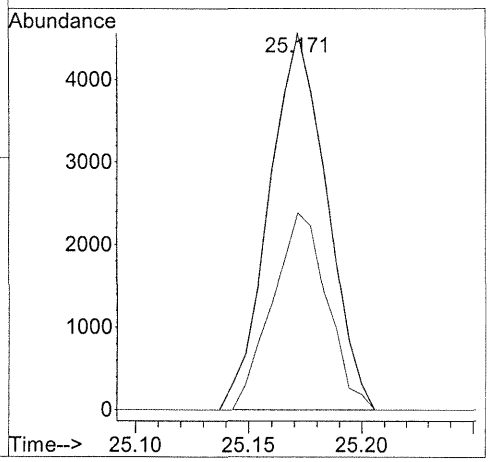


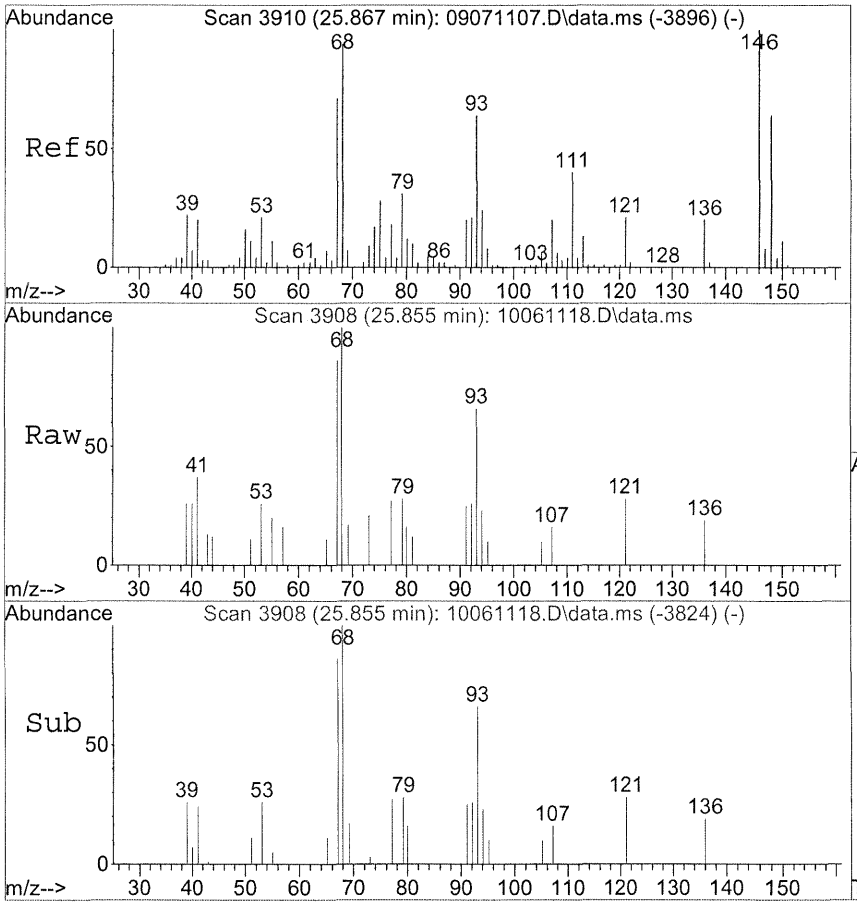


#82
1,2,4-Trimethylbenzene
Concen: 0.12 ng
RT: 25.17 min Scan# 3788
Delta R.T. -0.023 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion:105 Resp: 8048

Ion	Ratio	Lower	Upper
105	100		
120	49.6	29.9	69.9

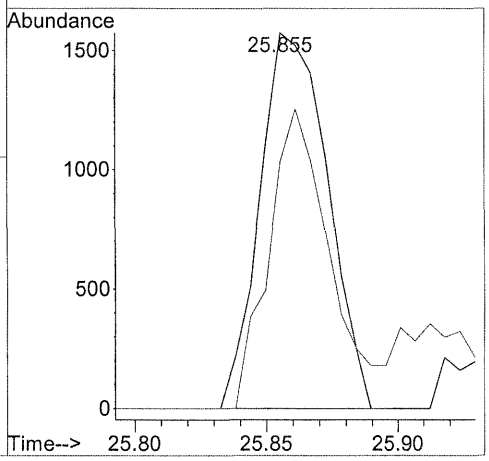




#91
d-Limonene
Concen: 0.10 ng
RT: 25.86 min Scan# 3908
Delta R.T. -0.023 min
Lab File: 10061118.D
Acq: 7 Oct 2011 6:30

Tgt Ion: 68 Resp: 2797

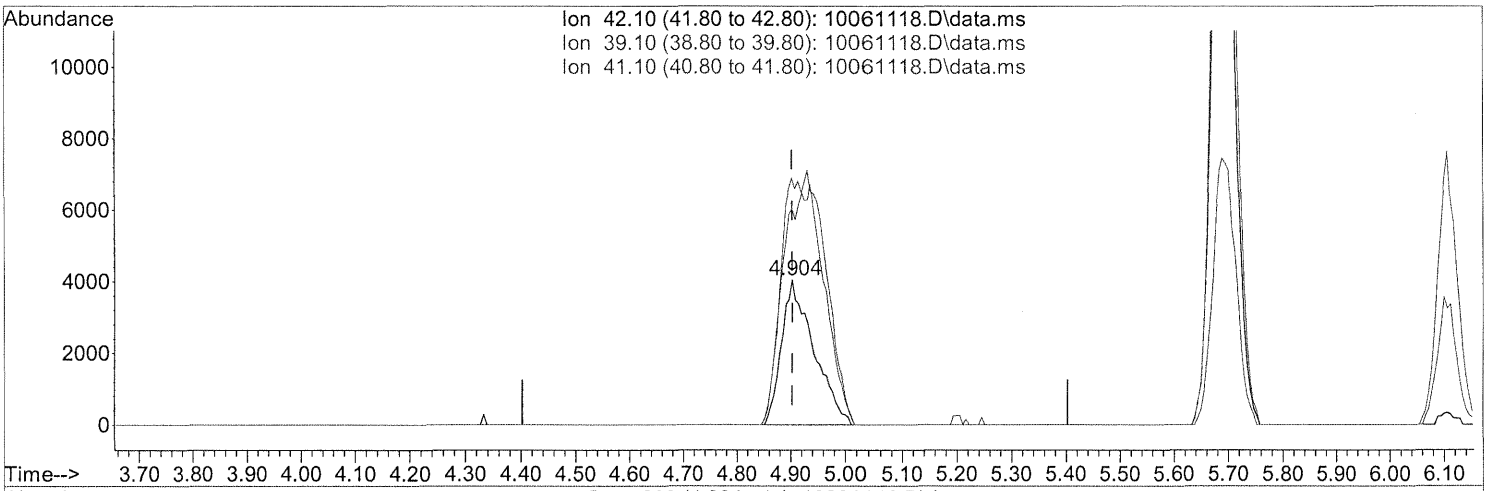
Ion	Ratio	Lower	Upper
68	100		
93	70.4	51.7	91.7

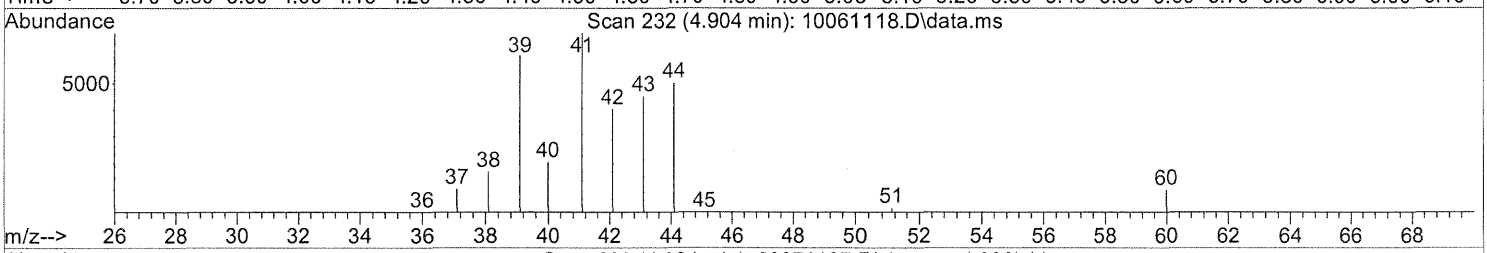


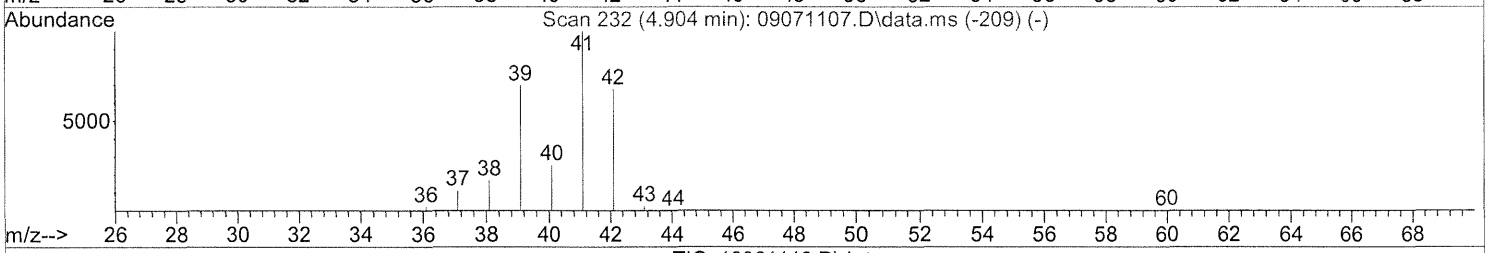
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:46:12 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061118.D\data.ms

(2) Propene (T)

4.904min (-0.000) 0.66ng

response 16604

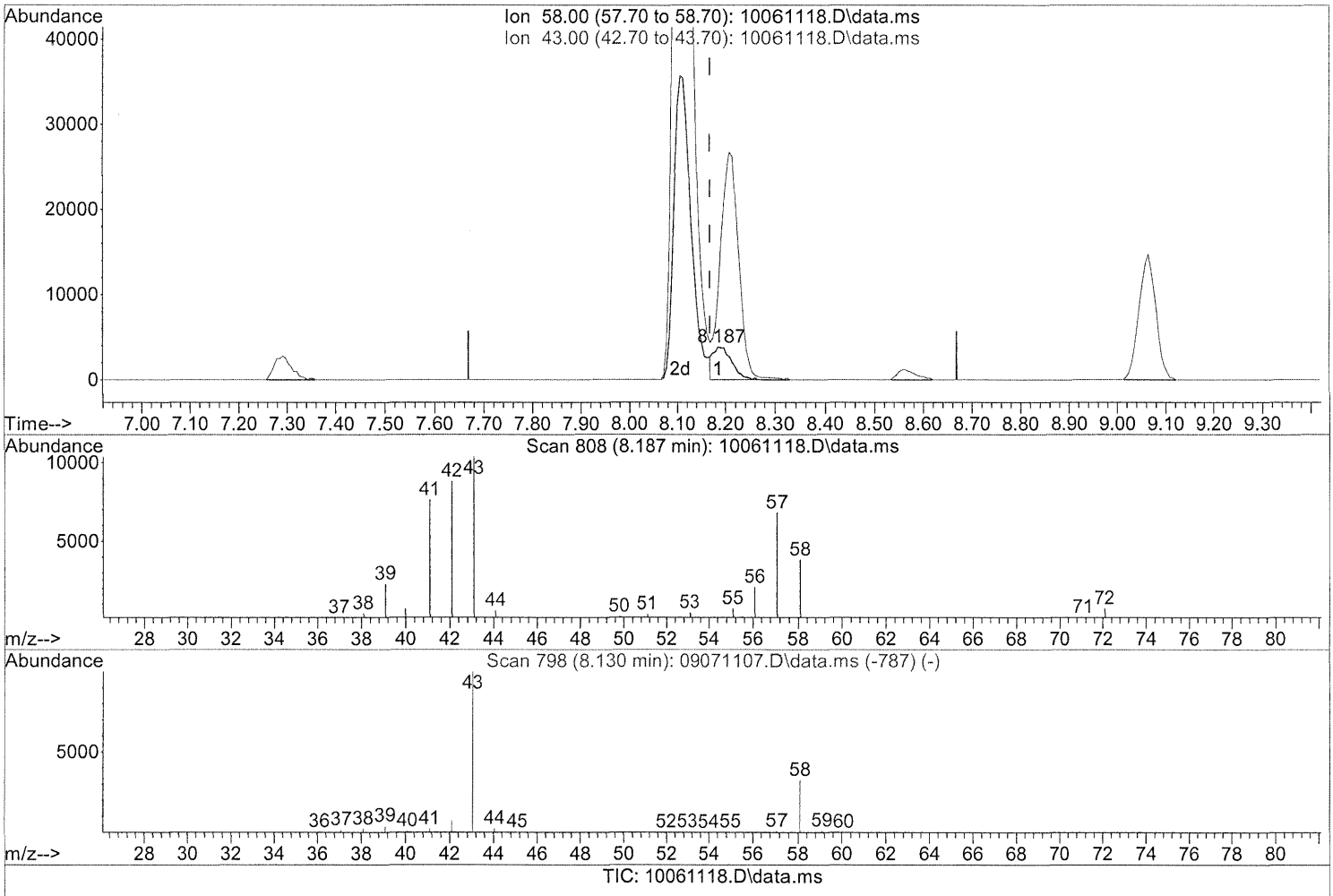
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	222.95#
0.00	0.00	0.00

FP

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:46:12 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061118.D\data.ms

(13) Acetone (T)

8.187min (+0.017) 0.72ng

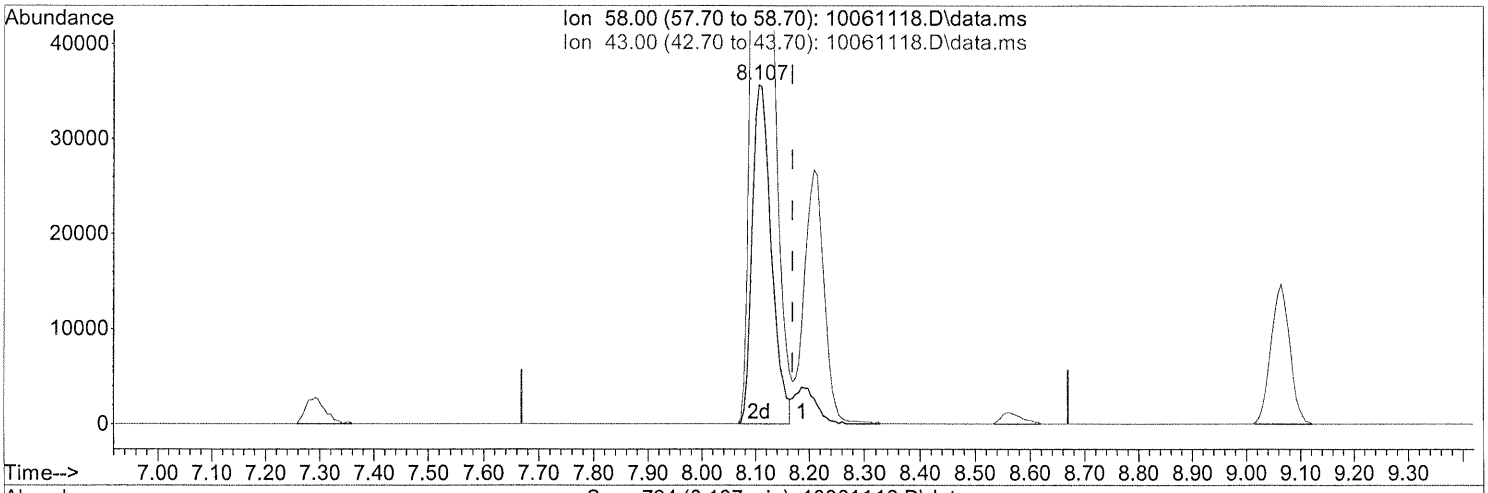
response 9906

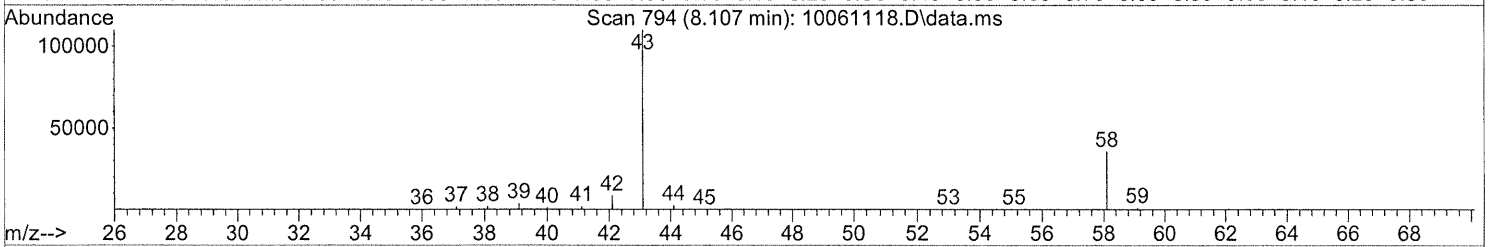
Ion	Exp%	Act%
58.00	100	100
43.00	313.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

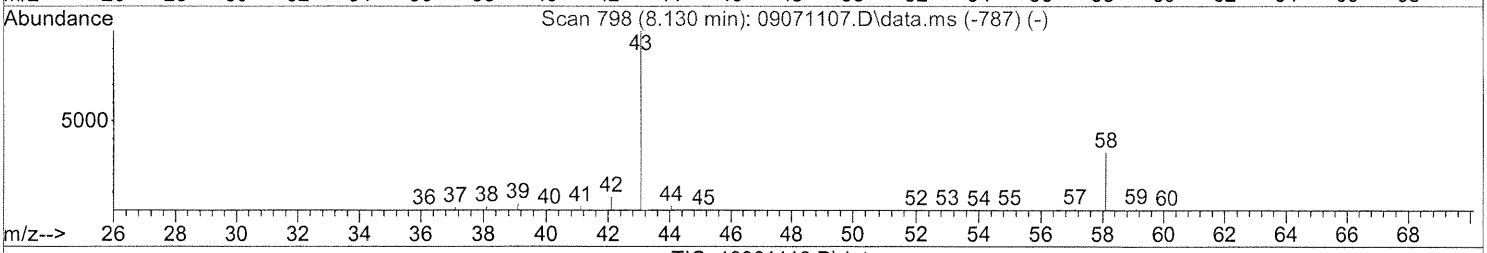
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:46:12 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061118.D\data.ms

(13) Acetone (T)

8.107min (-0.063) 6.40ng m

response 88413

Ion	Exp%	Act%
58.00	100	100
43.00	313.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

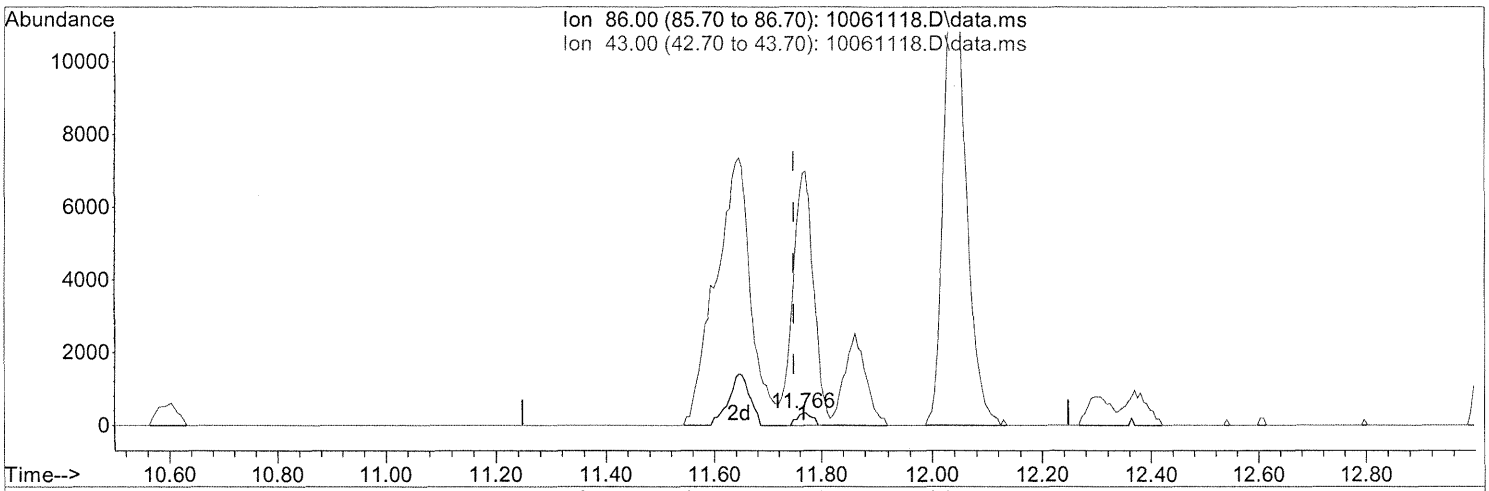
WP
EM 10/7/11

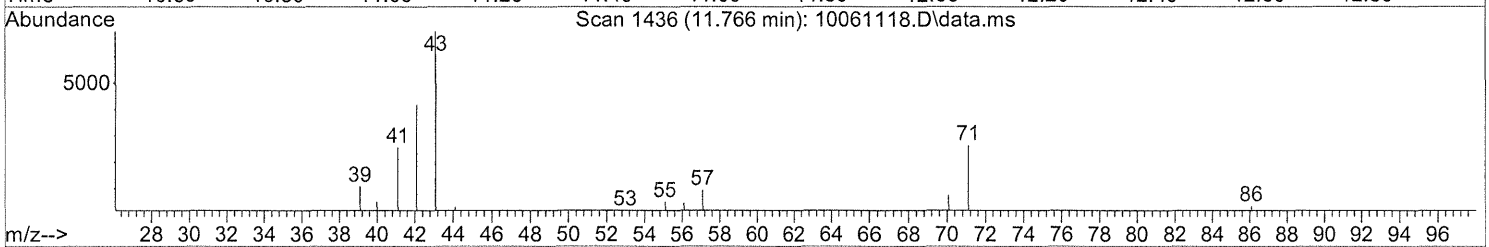
10/7/11

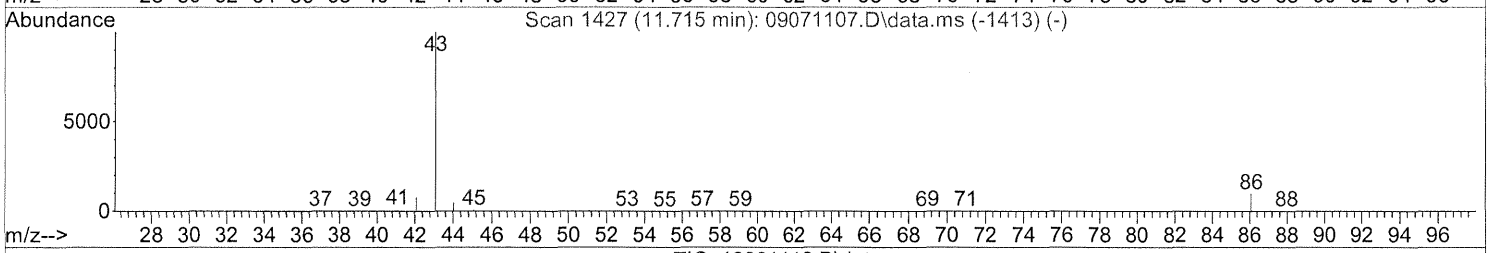
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:46:12 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061118.D\data.ms

(26) Vinyl Acetate (T)

11.766min (+0.017) 0.13ng

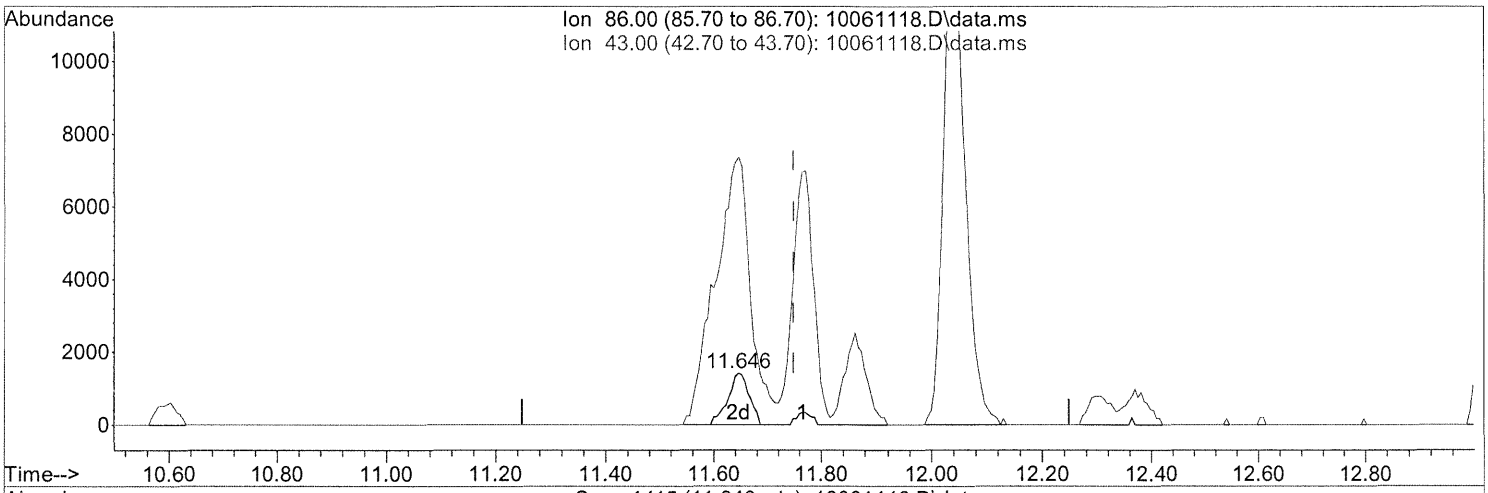
response 655

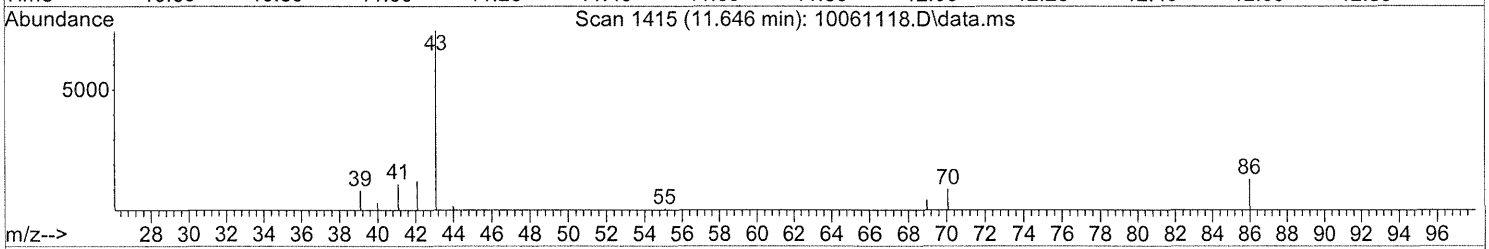
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	2916.34#
0.00	0.00	0.00
0.00	0.00	0.00

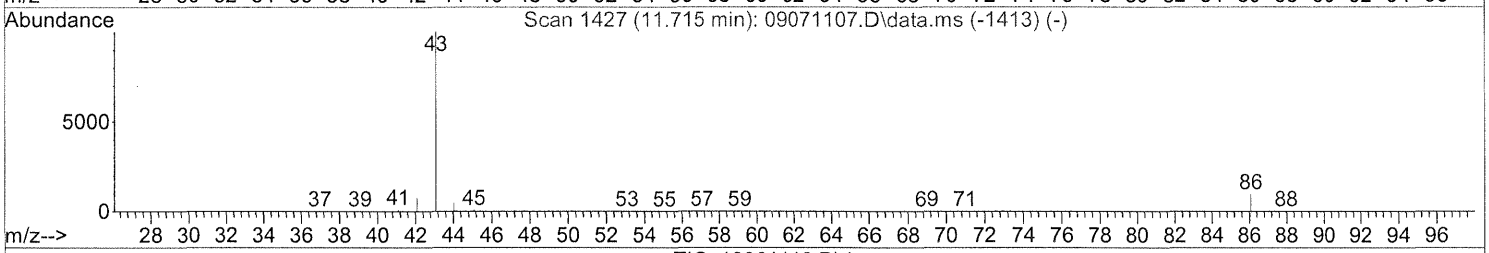
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:46:12 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061118.D\data.ms

(26) Vinyl Acetate (T)

11.646min (-0.103) 0.78ng m

response 3770

Ion	Exp%	Act%
86.00	100	100
43.00	845.70	506.68#
0.00	0.00	0.00
0.00	0.00	0.00

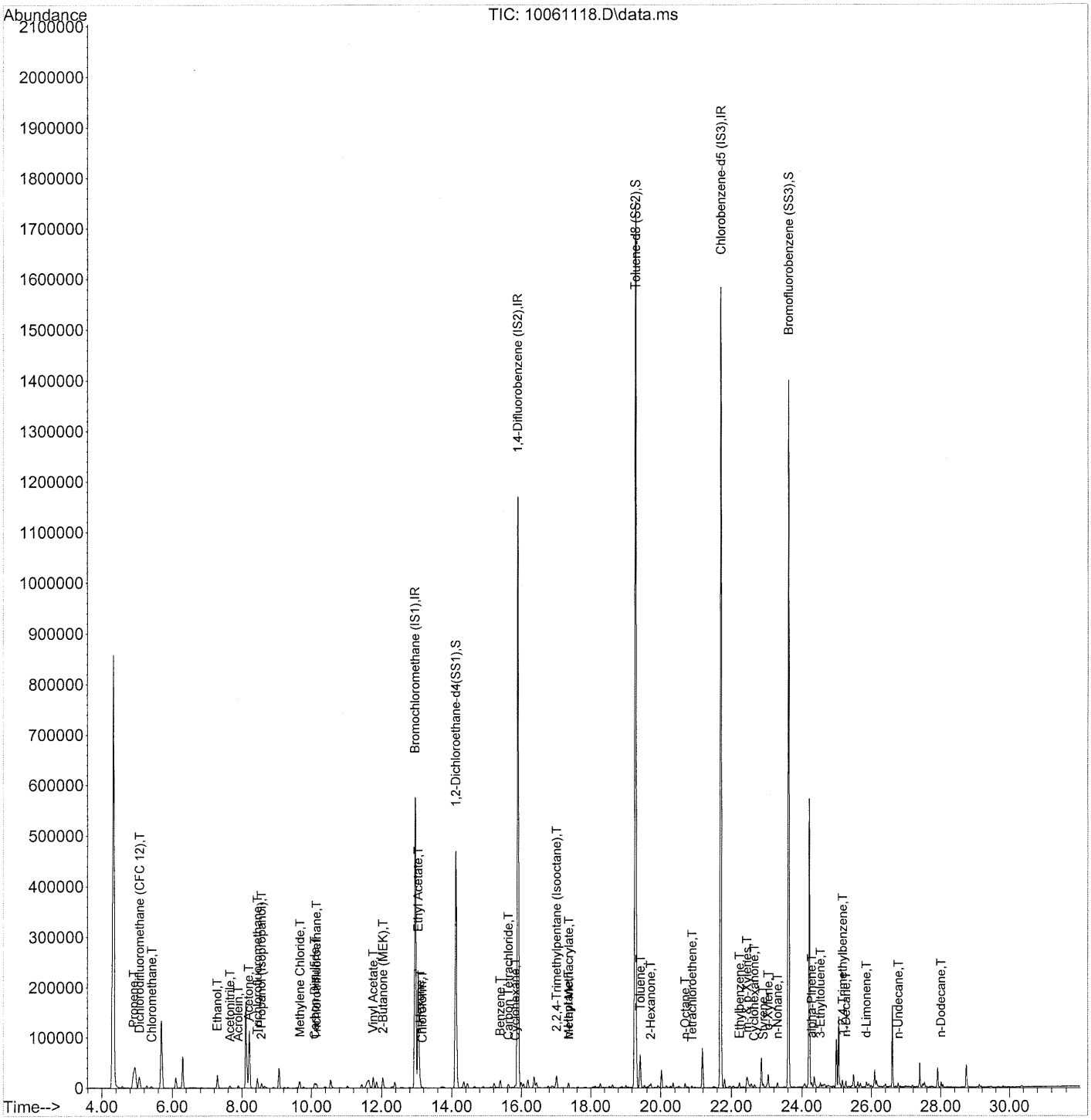
WP
Com 10/7/11

10/7/11

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30 am
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:46:12 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30 am
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:46:12 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	311905	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.90	114	1397708	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.69	82	657428	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	450672	24.175	ng		-0.03
Spiked Amount 25.000			Recovery = 96.68%				
57) Toluene-d8 (SS2)	19.29	98	1542671	25.248	ng		-0.02
Spiked Amount 25.000			Recovery = 101.00%				
73) Bromofluorobenzene (SS3)	23.62	174	551787	25.598	ng		-0.01
Spiked Amount 25.000			Recovery = 102.40%				
Target Compounds							Qvalue
2) Propene	4.90	42	16604	0.665	ng	#	20
3) Dichlorodifluoromethan...	5.07	85	40422	1.309	ng		100
4) Chloromethane	5.42	50	3928	0.152	ng		91
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	902	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.19	54	558	N.D.			
8) Bromomethane	6.69	94	720	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	7.29	45	36074	2.499	ng		99
11) Acetonitrile	7.66	41	5515	0.165	ng		93
12) Acrolein	7.89	56	5359	0.491	ng		97
13) Acetone	8.19	58	9906	0.717	ng	#	1
14) Trichlorofluoromethane	8.44	101	21014	0.757	ng		100
15) 2-Propanol (Isopropanol)	8.56	45	16684	0.430	ng		92
16) Acrylonitrile	8.90	53	860	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.57	59	1603	N.D.			
19) Methylene Chloride	9.67	84	7399	0.432	ng		87
20) 3-Chloro-1-propene (Al...	9.79	41	608	N.D.			
21) Trichlorotrifluoroethane	10.15	151	4672	0.323	ng		93
22) Carbon Disulfide	10.10	76	19046	0.320	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	11.58	73	601	N.D.			
26) Vinyl Acetate	11.77	86	655	0.135	ng	#	1
27) 2-Butanone (MEK)	12.04	72	8686	0.729	ng	#	59
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.04	87	602	N.D.			
30) Ethyl Acetate	13.04	61	50828	7.873	ng		81
31) n-Hexane	13.10	57	9023	0.271	ng		97

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30 am
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:46:12 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.16	83	1745	0.069 ng		94
34) Tetrahydrofuran (THF)	13.77	72	658	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.28	62	352	N.D.		
38) 1,1,1-Trichloroethane	14.71	97	412	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.29	56	53	N.D.		
41) Benzene	15.39	78	19463	0.296 ng		99
42) Carbon Tetrachloride	15.62	117	6267	0.308 ng		100
43) Cyclohexane	15.82	84	2919	0.102 ng		96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.88	83	148	N.D.		
47) Trichloroethene	16.93	130	114	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	17.02	57	27225	0.336 ng		99
50) Methyl Methacrylate	17.37	100	871	0.112 ng	#	1
51) n-Heptane	17.36	71	2935	0.151 ng		92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.14	58	995	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	19.42	91	61033	0.864 ng		100
59) 2-Hexanone	19.71	43	7412	0.188 ng		82
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.53	43	2616	N.D.		
63) n-Octane	20.70	57	1485	0.093 ng		91
64) Tetrachloroethene	20.90	166	1624	0.074 ng		87
65) Chlorobenzene	21.77	112	63	N.D.		
66) Ethylbenzene	22.22	91	9406	0.122 ng		100
67) m- & p-Xylenes	22.44	91	19755	0.321 ng		93
68) Bromoform	22.54	173	125	N.D.		
69) Styrene	22.90	104	4772	0.099 ng		89
70) o-Xylene	23.05	91	7975	0.123 ng		93
71) n-Nonane	23.31	43	4361	0.103 ng		79
72) 1,1,2,2-Tetrachloroethane	23.04	83	1020	N.D.		
74) Cumene	23.79	105	898	N.D.		
75) alpha-Pinene	24.28	93	3817	0.091 ng	#	42
76) n-Propylbenzene	24.41	91	3001	N.D.		
77) 3-Ethyltoluene	24.53	105	6257	0.076 ng		97
78) 4-Ethyltoluene	24.58	105	3150	N.D.		
79) 1,3,5-Trimethylbenzene	24.67	105	2566	N.D.		

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061118.D
Acq On : 7 Oct 2011 6:30 am
Operator : EM/CR
Sample : P1103662-007 (1000ml)
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 08:46:12 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

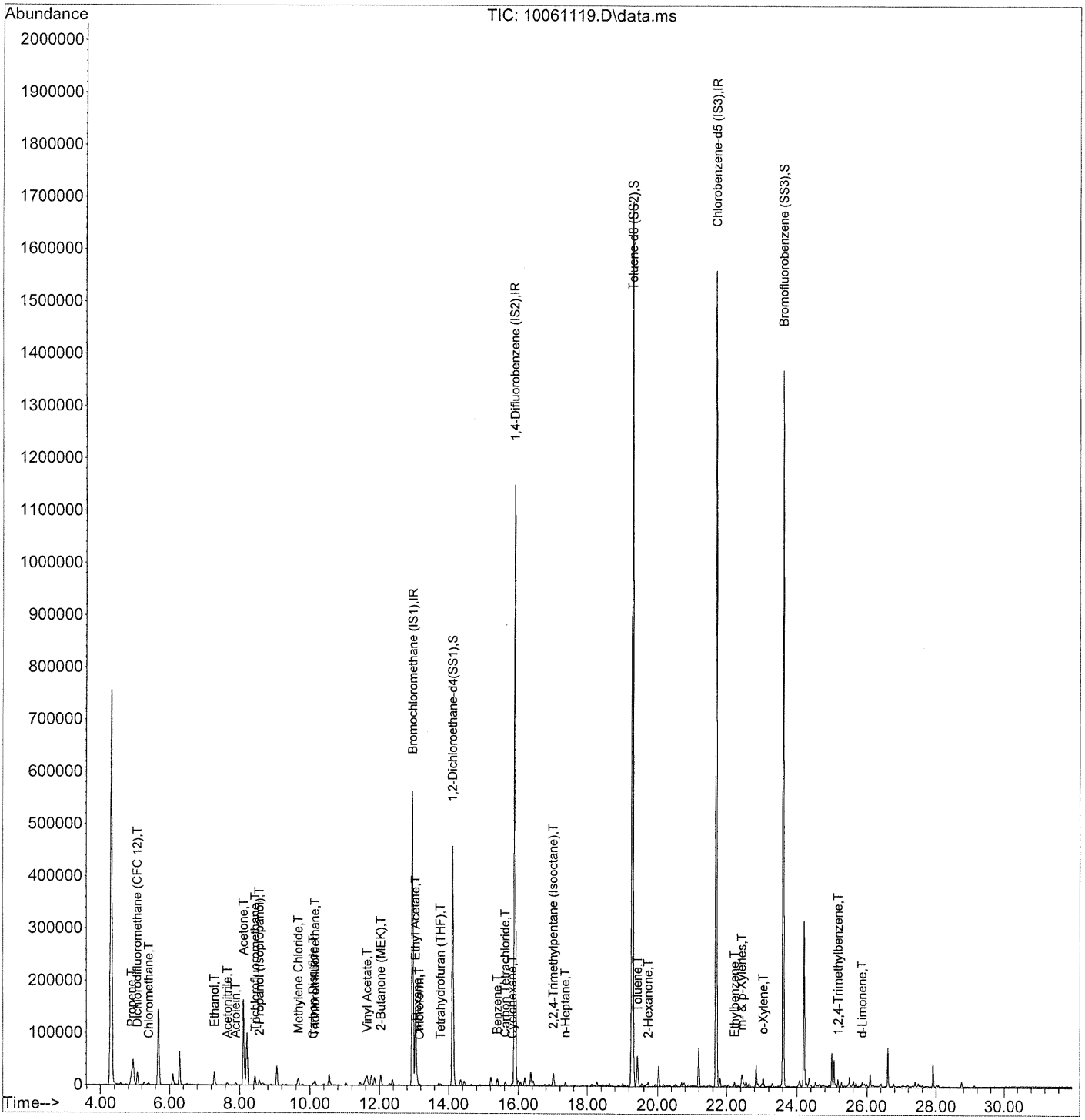
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.85	118	851	N.D.	
81) 2-Ethyltoluene	24.90	105	2419	N.D.	
82) 1,2,4-Trimethylbenzene	25.17	105	8048	0.118 ng	100
83) n-Decane	25.27	57	4715	0.112 ng	88
84) Benzyl Chloride	25.34	91	266	N.D.	
85) 1,3-Dichlorobenzene	25.44	146	769	N.D.	
86) 1,4-Dichlorobenzene	25.44	146	769	N.D.	
87) sec-Butylbenzene	25.50	105	826	N.D.	
88) 4-Isopropyltoluene (p-...	25.68	119	2208	N.D.	
89) 1,2,3-Trimethylbenzene	25.69	105	2330	N.D.	
90) 1,2-Dichlorobenzene	25.44	146	769	N.D.	
91) d-Limonene	25.86	68	2797	0.103 ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	26.77	57	3251	0.079 ng	88
94) 1,2,4-Trichlorobenzene	27.91	180	113	N.D.	
95) Naphthalene	28.07	128	5026	N.D.	
96) n-Dodecane	28.01	57	4011	0.106 ng	86
97) Hexachlorobutadiene	0.00	225	0	N.D.	
98) Cyclohexanone	22.64	55	2679	0.104 ng	89
99) tert-Butylbenzene	25.18	119	1088	N.D.	
100) n-Butylbenzene	26.24	91	59	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:52:59 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:52:59 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	304514	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.90	114	1367845	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	643759	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	441307	24.247	ng		-0.03
Spiked Amount 25.000			Recovery = 97.00%				
57) Toluene-d8 (SS2)	19.29	98	1493446	24.961	ng		-0.02
Spiked Amount 25.000			Recovery = 99.84%				
73) Bromofluorobenzene (SS3)	23.62	174	537597	25.469	ng		-0.01
Spiked Amount 25.000			Recovery = 101.88%				
Target Compounds							Qvalue
2) Propene	4.90	42	10951m	0.449	ng		
3) Dichlorodifluoromethan...	5.06	85	37505	1.244	ng		99
4) Chloromethane	5.41	50	3561	0.141	ng		96
10) Ethanol	7.29	45	35095	2.490	ng		99
11) Acetonitrile	7.66	41	5087	0.155	ng		89
12) Acrolein	7.88	56	5294	0.496	ng		99
13) Acetone	8.11	58	82537m	6.120	ng		
14) Trichlorofluoromethane	8.44	101	20118	0.742	ng		98
15) 2-Propanol (Isopropanol)	8.56	45	17838m	0.470	ng		
19) Methylene Chloride	9.67	84	7517	0.449	ng		87
21) Trichlorotrifluoroethane	10.15	151	4064	0.288	ng		99
22) Carbon Disulfide	10.10	76	7665	0.132	ng		92
26) Vinyl Acetate	11.65	86	4213m	0.888	ng		
27) 2-Butanone (MEK)	12.04	72	8793	0.756	ng	#	56
30) Ethyl Acetate	13.05	61	35317	5.603	ng		81
31) n-Hexane	13.10	57	8102	0.249	ng	#	93
32) Chloroform	13.16	83	3060	0.125	ng		94
34) Tetrahydrofuran (THF)	13.77	72	1100	0.102	ng	#	45
41) Benzene	15.39	78	16951	0.264	ng		97
42) Carbon Tetrachloride	15.62	117	6139	0.308	ng		96
43) Cyclohexane	15.82	84	2717	0.097	ng		86
49) 2,2,4-Trimethylpentane...	17.02	57	27402	0.346	ng		97
51) n-Heptane	17.36	71	2386	0.125	ng		91
58) Toluene	19.42	91	51570	0.745	ng		98
59) 2-Hexanone	19.72	43	6953	0.180	ng		85
66) Ethylbenzene	22.22	91	9018	0.119	ng		100
67) m- & p-Xylenes	22.44	91	19912	0.330	ng		90
70) o-Xylene	23.05	91	7743	0.122	ng		99
82) 1,2,4-Trimethylbenzene	25.17	105	7957	0.119	ng		98
91) d-Limonene	25.86	68	2473	0.093	ng		97

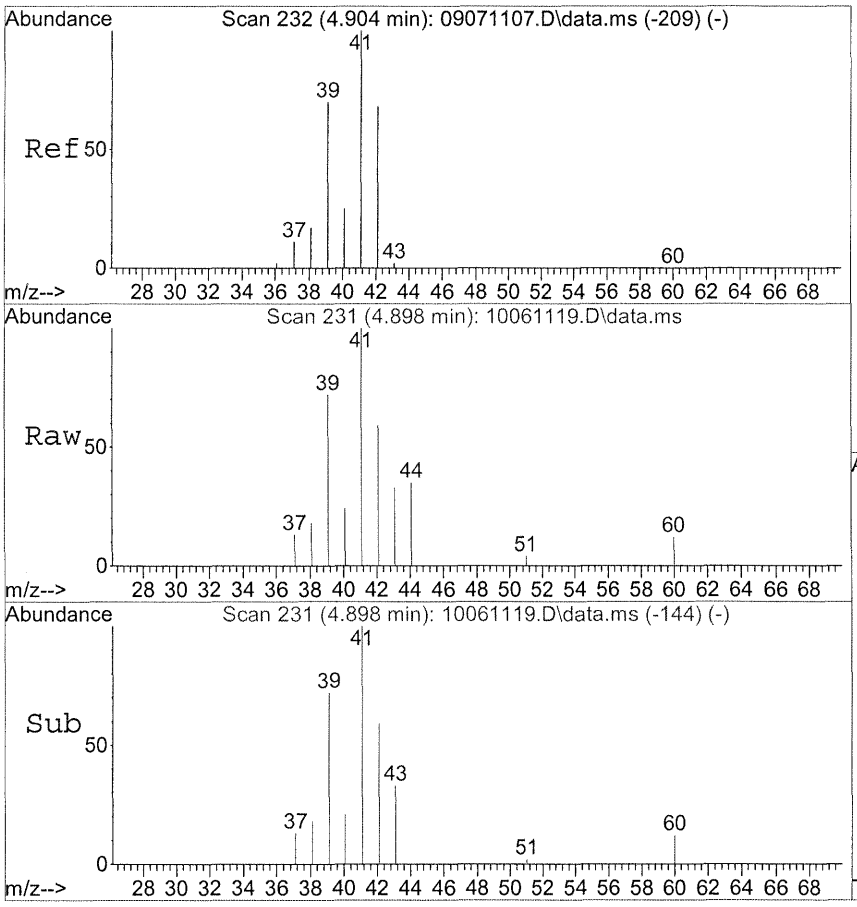
Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:52:59 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

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

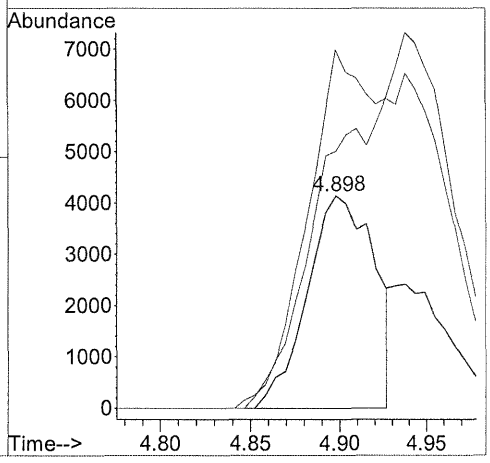
(#) = qualifier out of range (m) = manual integration (+) = signals summed

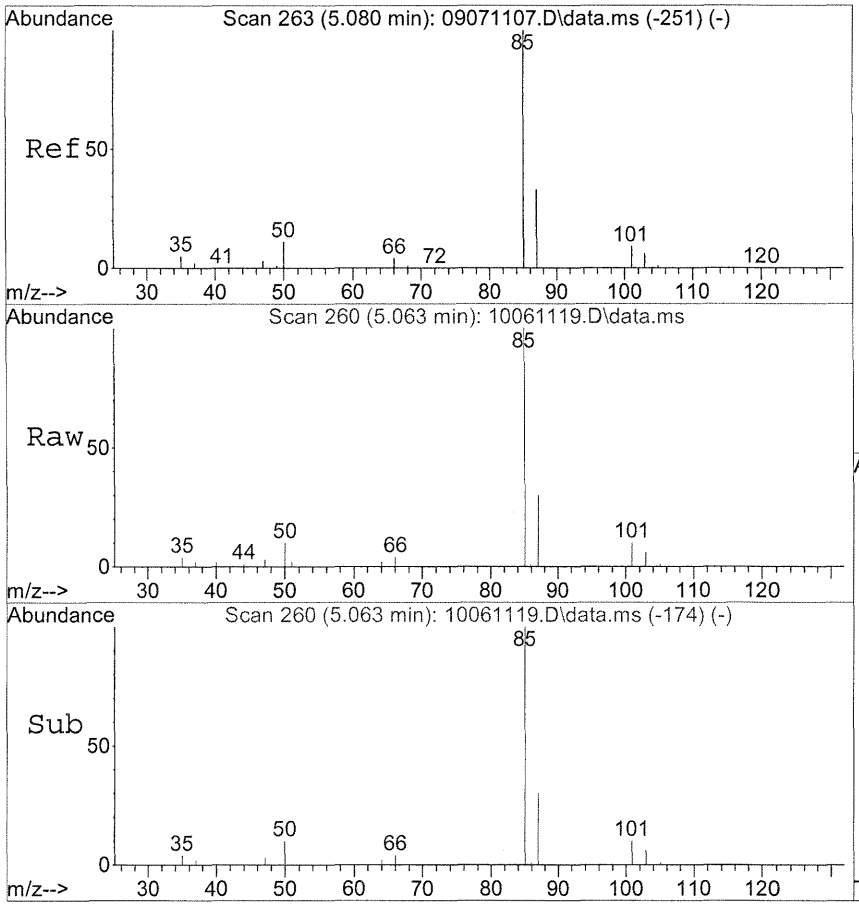


#2
Propene
Concen: 0.45 ng m
RT: 4.90 min Scan# 231
Delta R.T. -0.006 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 42 Resp: 10951

Ion	Ratio	Lower	Upper
42	100		
39	0.0	88.8	128.8#
41	320.5	126.1	166.1#

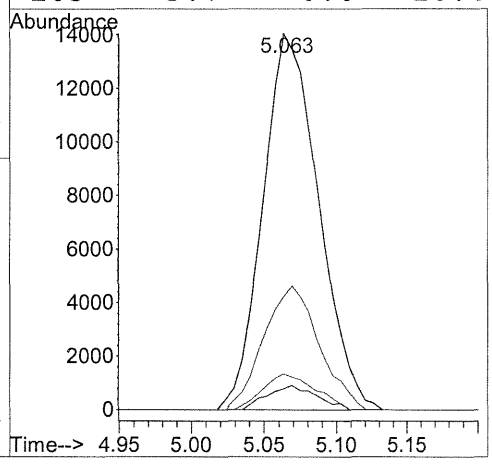


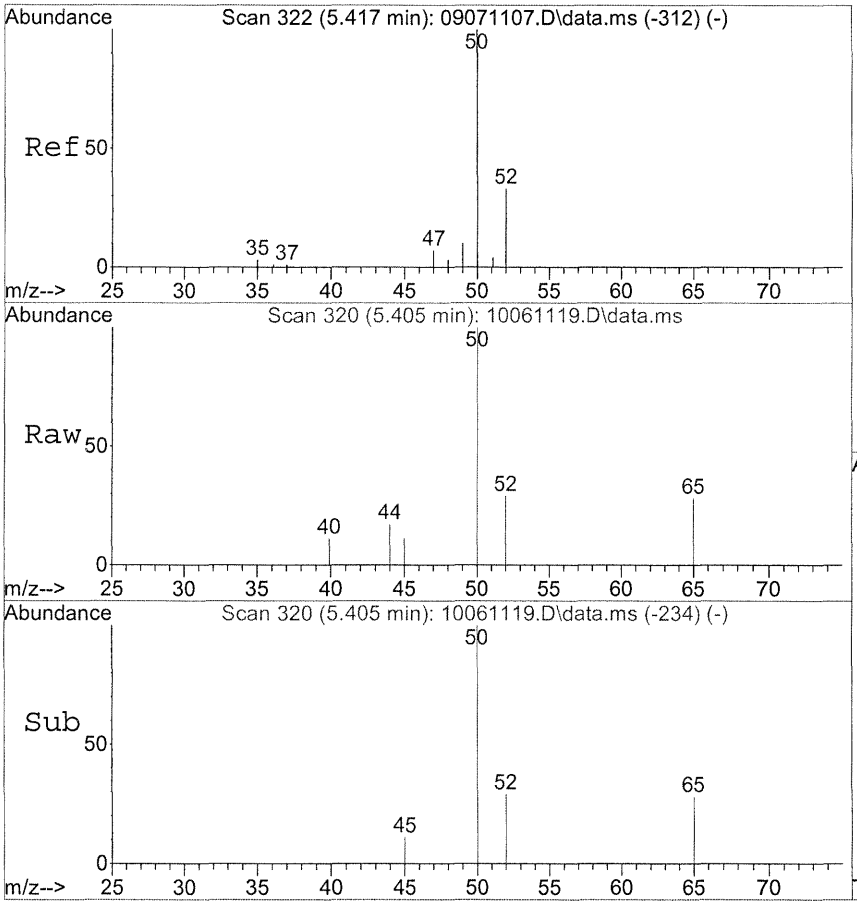


#3
Dichlorodifluoromethane (CFC
Concen: 1.24 ng
RT: 5.06 min Scan# 260
Delta R.T. -0.011 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 85 Resp: 37505

Ion	Ratio	Lower	Upper
85	100		
87	32.6	13.0	53.0
101	8.9	0.0	29.1
103	5.7	0.0	26.0

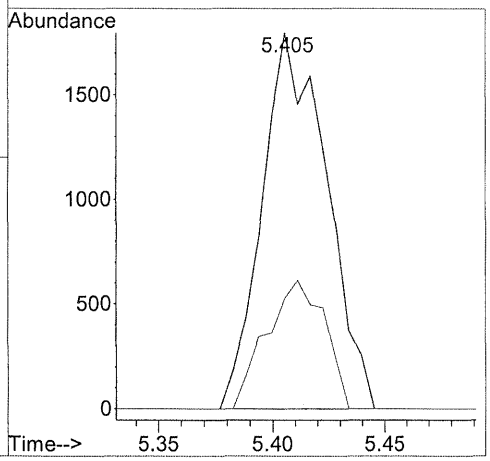


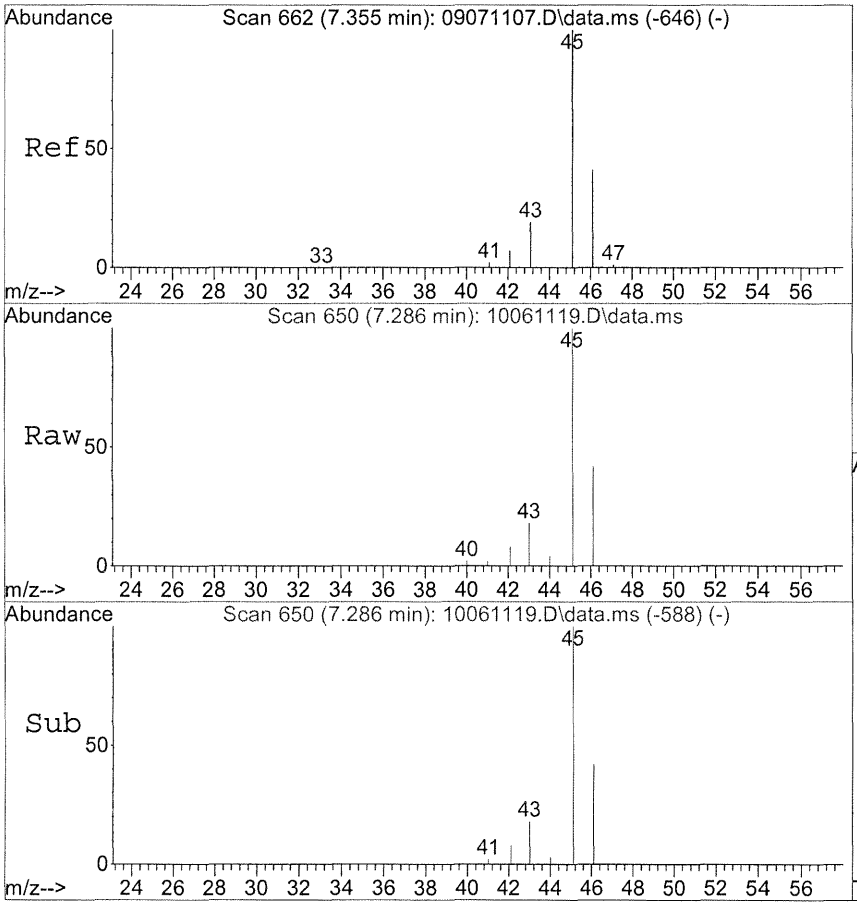


#4
Chloromethane
Concen: 0.14 ng
RT: 5.41 min Scan# 320
Delta R.T. -0.011 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 50 Resp: 3561

Ion	Ratio	Lower	Upper
50	100		
52	30.8	13.1	53.1

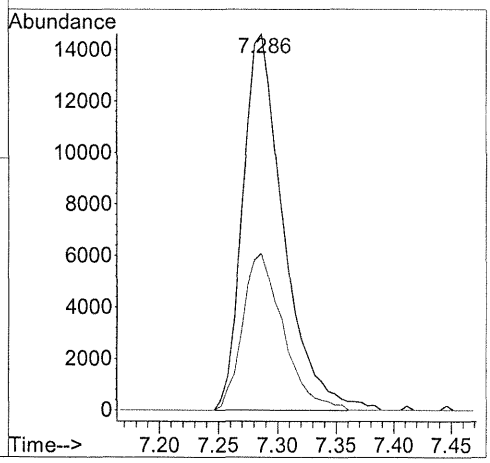


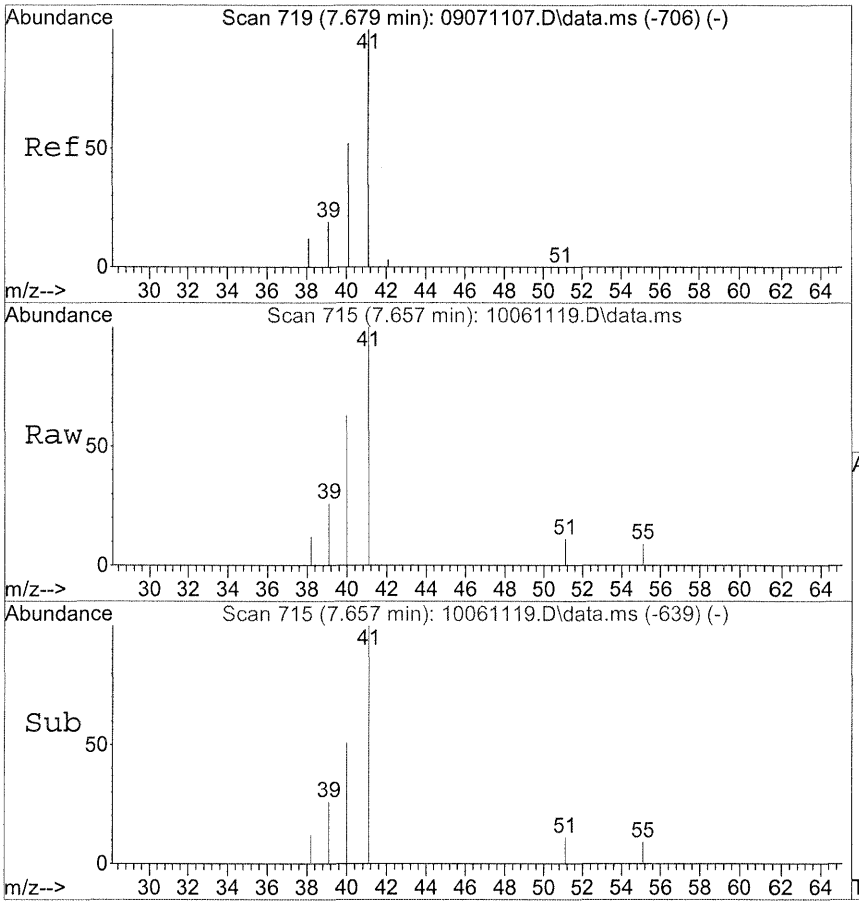


#10
Ethanol
Concen: 2.49 ng
RT: 7.29 min Scan# 650
Delta R.T. -0.148 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 45 Resp: 35095

Ion	Ratio	Lower	Upper
45	100		
46	41.3	20.7	60.7

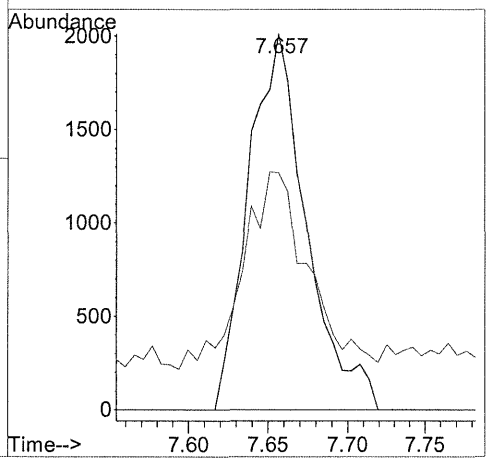


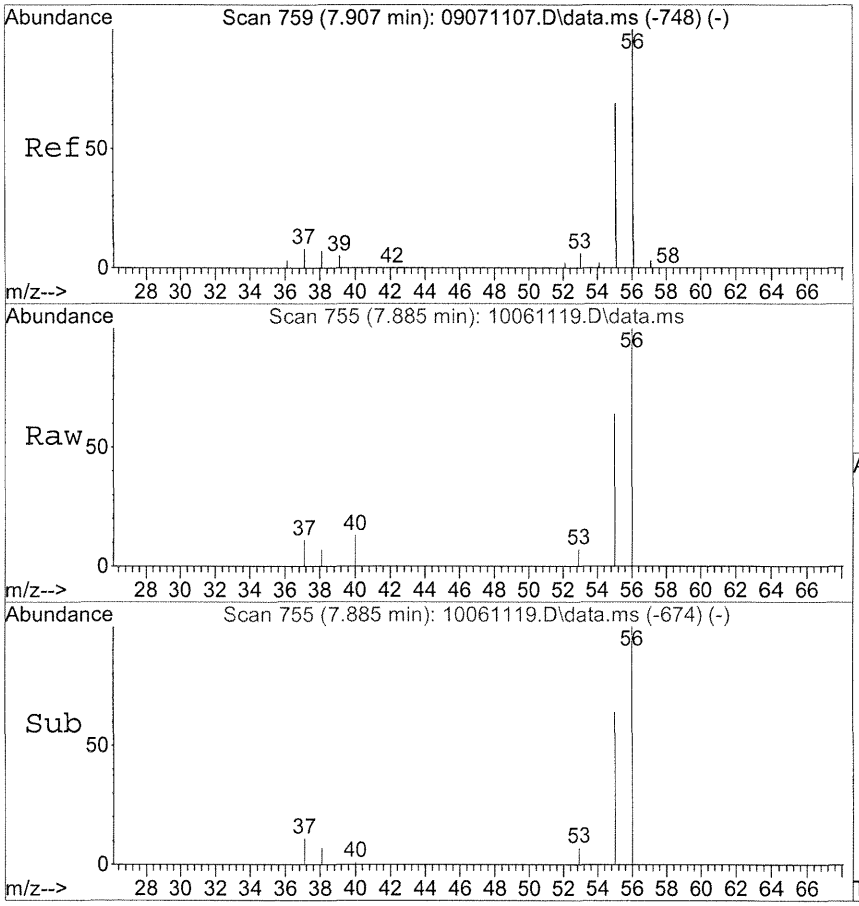


#11
Acetonitrile
Concen: 0.16 ng
RT: 7.66 min Scan# 715
Delta R.T. -0.068 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 41 Resp: 5087

Ion	Ratio	Lower	Upper
41	100		
40	59.2	31.5	71.5

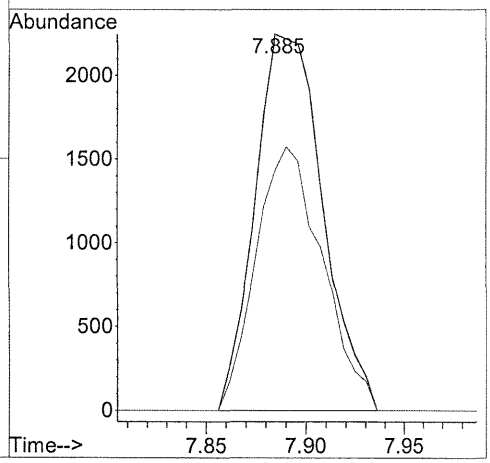


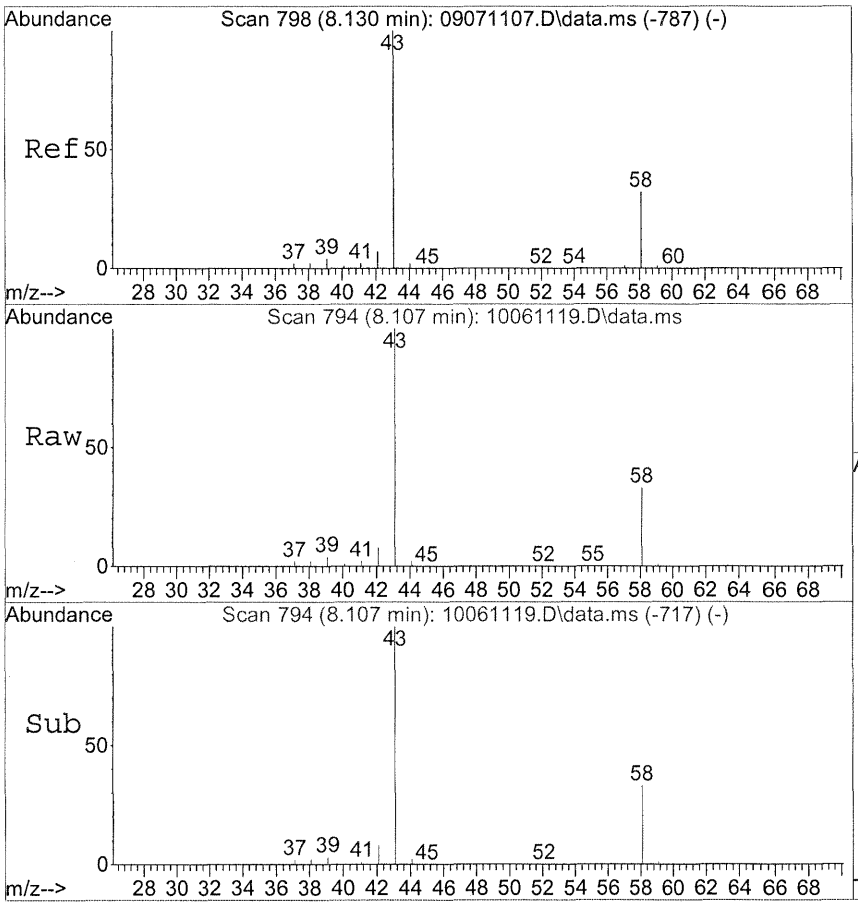


#12
Acrolein
Concen: 0.50 ng
RT: 7.88 min Scan# 755
Delta R.T. -0.040 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 56 Resp: 5294

Ion	Ratio	Lower	Upper
56	100		
55	68.9	50.1	90.1

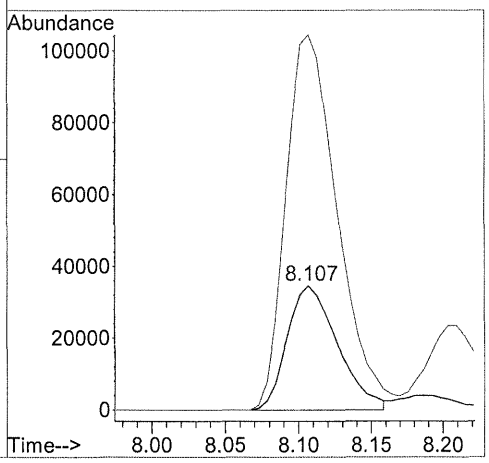


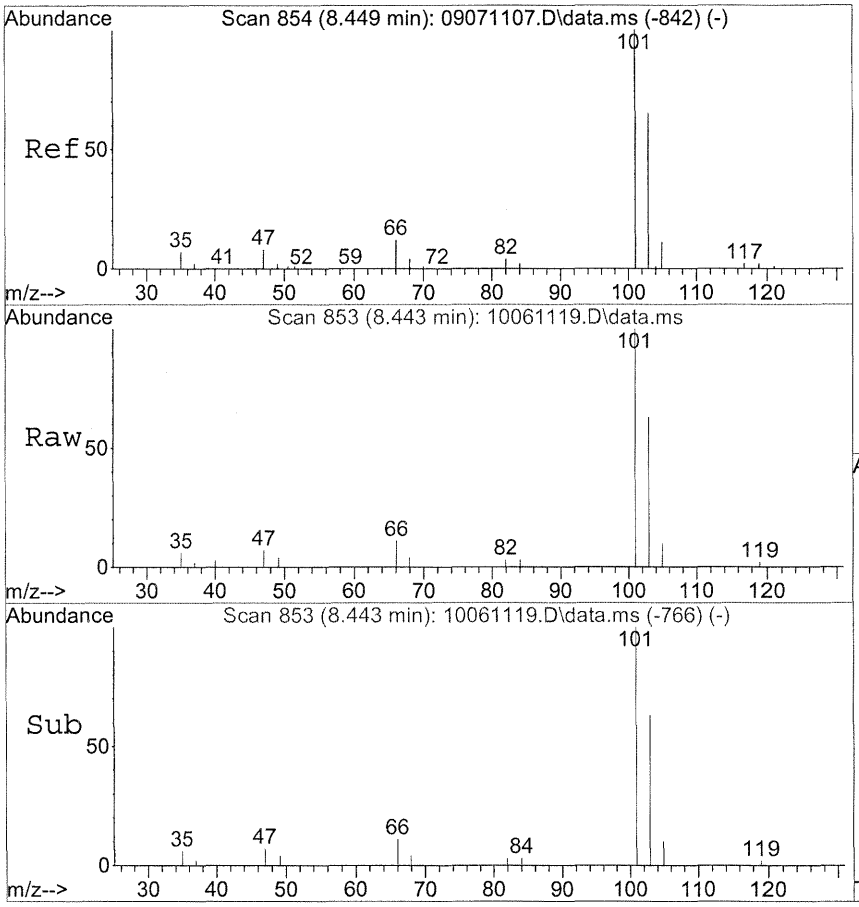


#13
Acetone
Concen: 6.12 ng m
RT: 8.11 min Scan# 794
Delta R.T. -0.063 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 58 Resp: 82537

Ion	Ratio	Lower	Upper
58	100		
43	0.0	283.8	343.8#

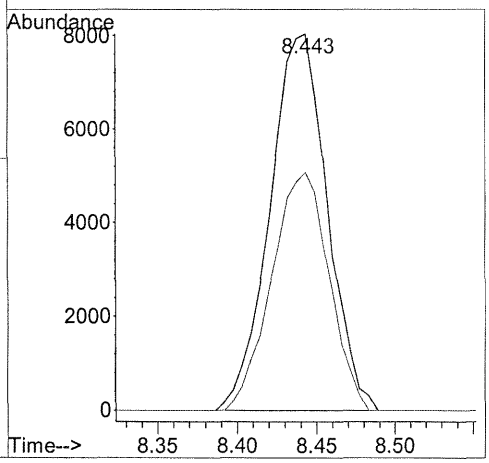


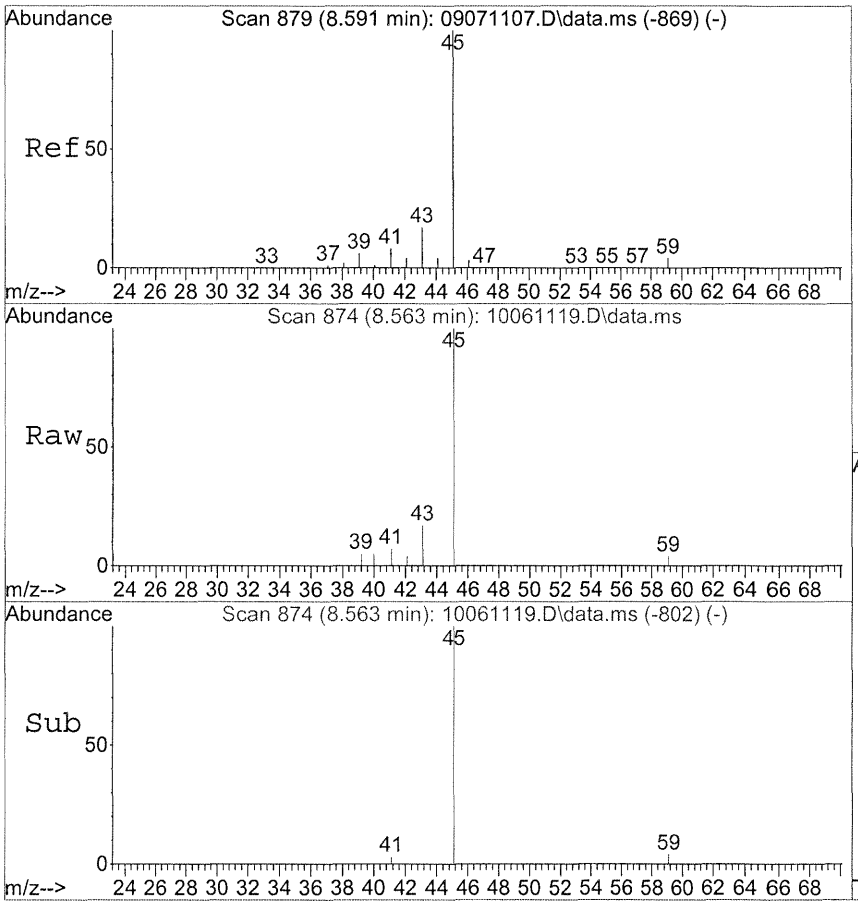


#14
Trichlorofluoromethane
Concen: 0.74 ng
RT: 8.44 min Scan# 853
Delta R.T. -0.006 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion:101 Resp: 20118

Ion	Ratio	Lower	Upper
101	100		
103	63.1	44.4	84.4

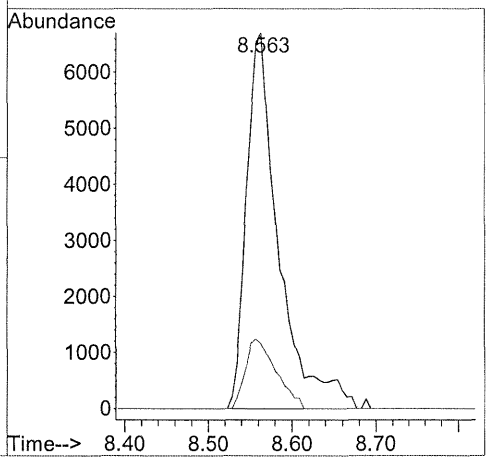


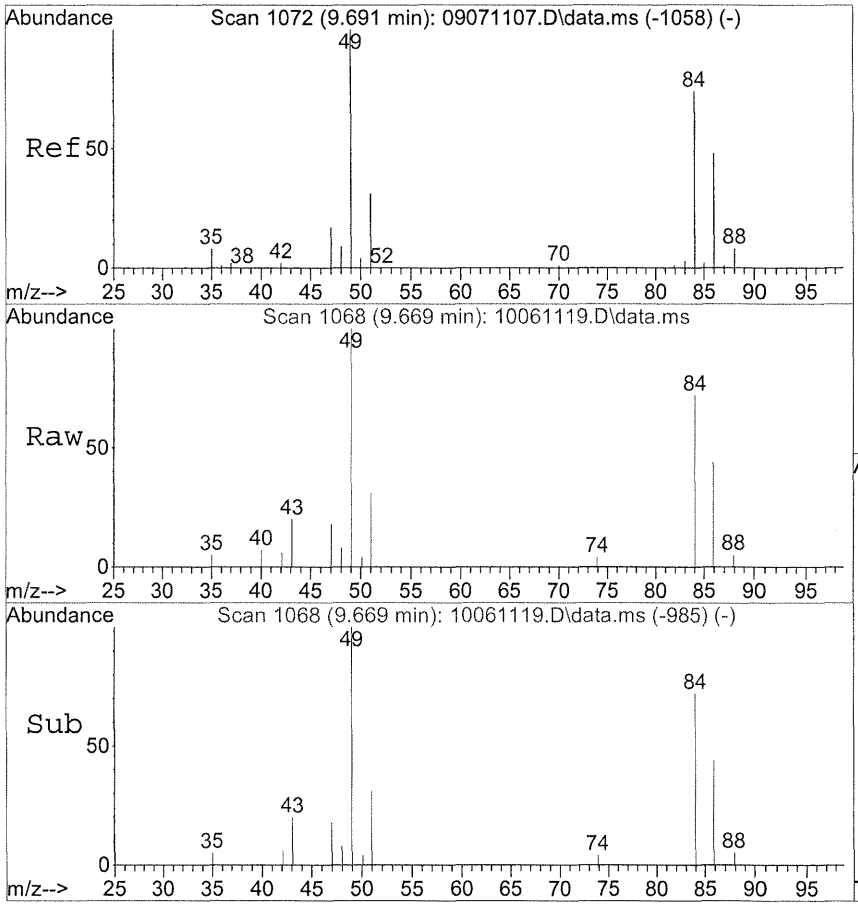


#15
2-Propanol (Isopropanol)
Concen: 0.47 ng m
RT: 8.56 min Scan# 874
Delta R.T. -0.091 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 45 Resp: 17838

Ion	Ratio	Lower	Upper
45	100		
43	0.0	1.4	41.4#

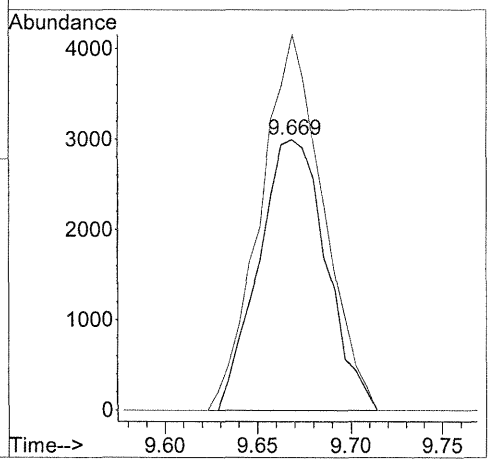


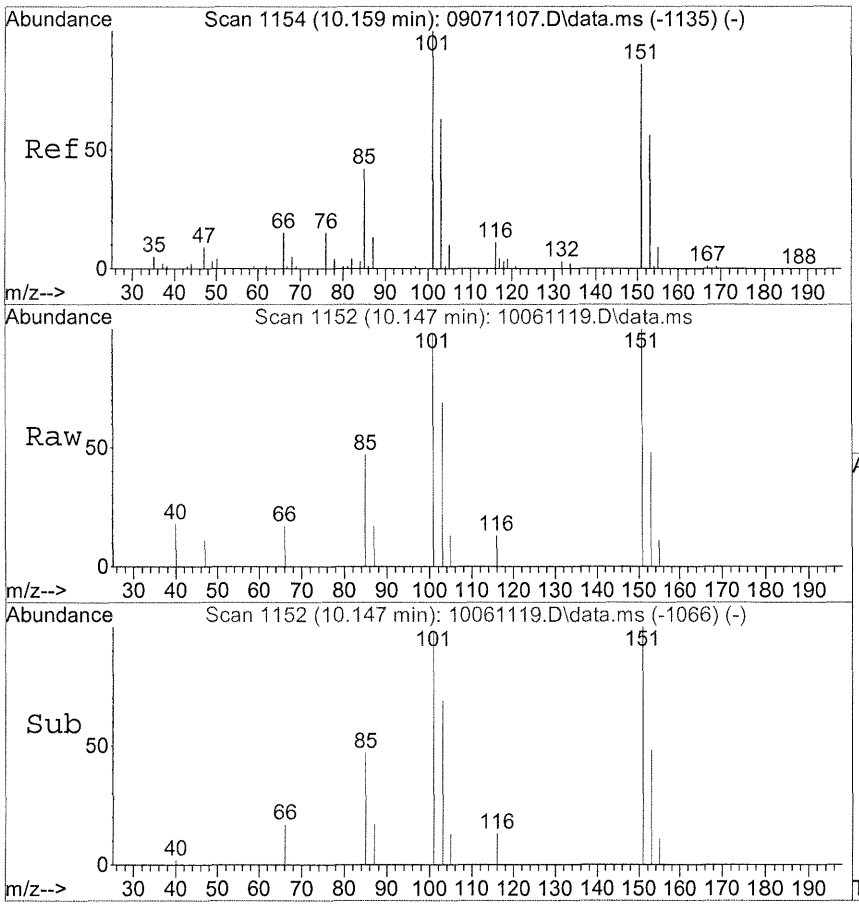


#19
Methylene Chloride
Concen: 0.45 ng
RT: 9.67 min Scan# 1068
Delta R.T. -0.028 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 84 Resp: 7517

Ion	Ratio	Lower	Upper
84	100		
49	129.3	90.4	140.4

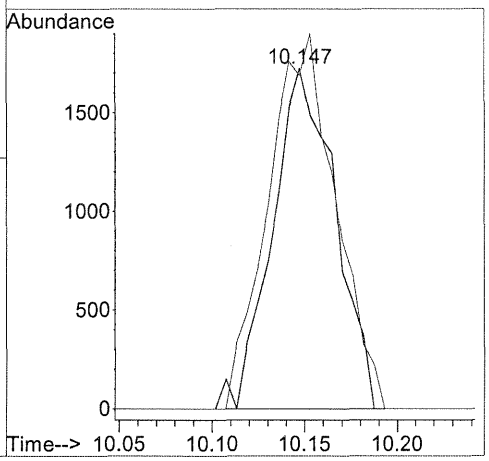


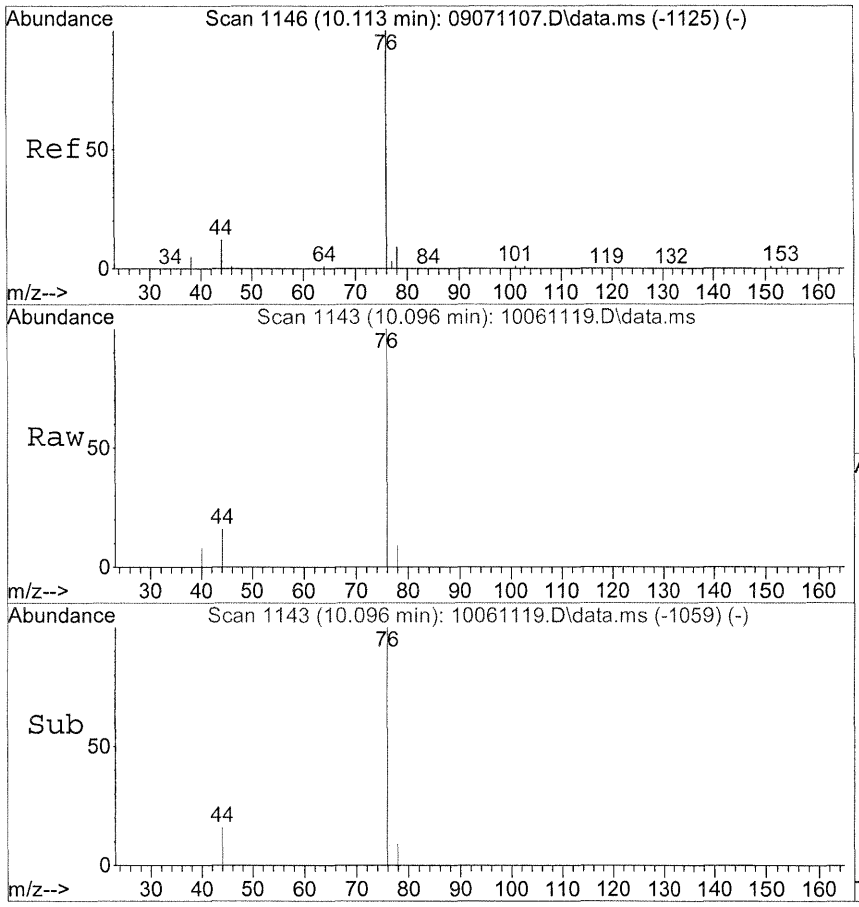


#21
Trichlorotrifluoroethane
Concen: 0.29 ng
RT: 10.15 min Scan# 1152
Delta R.T. -0.011 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion:151 Resp: 4064

Ion	Ratio	Lower	Upper
151	100		
101	118.2	99.7	139.7

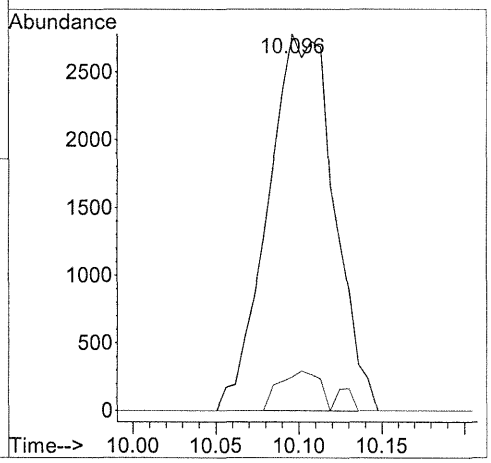


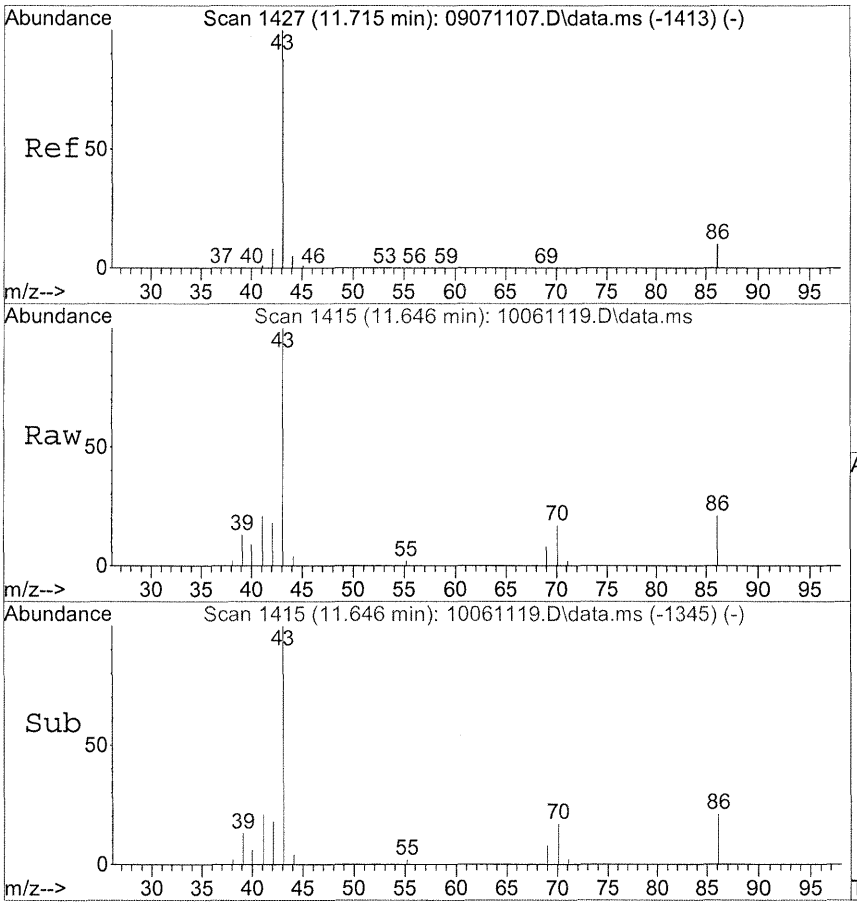


#22
Carbon Disulfide
Concen: 0.13 ng
RT: 10.10 min Scan# 1143
Delta R.T. -0.023 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 76 Resp: 7665

Ion	Ratio	Lower	Upper
76	100		
78	6.5	0.0	29.4

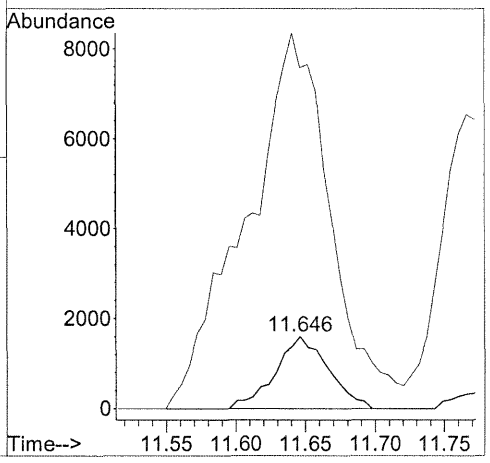


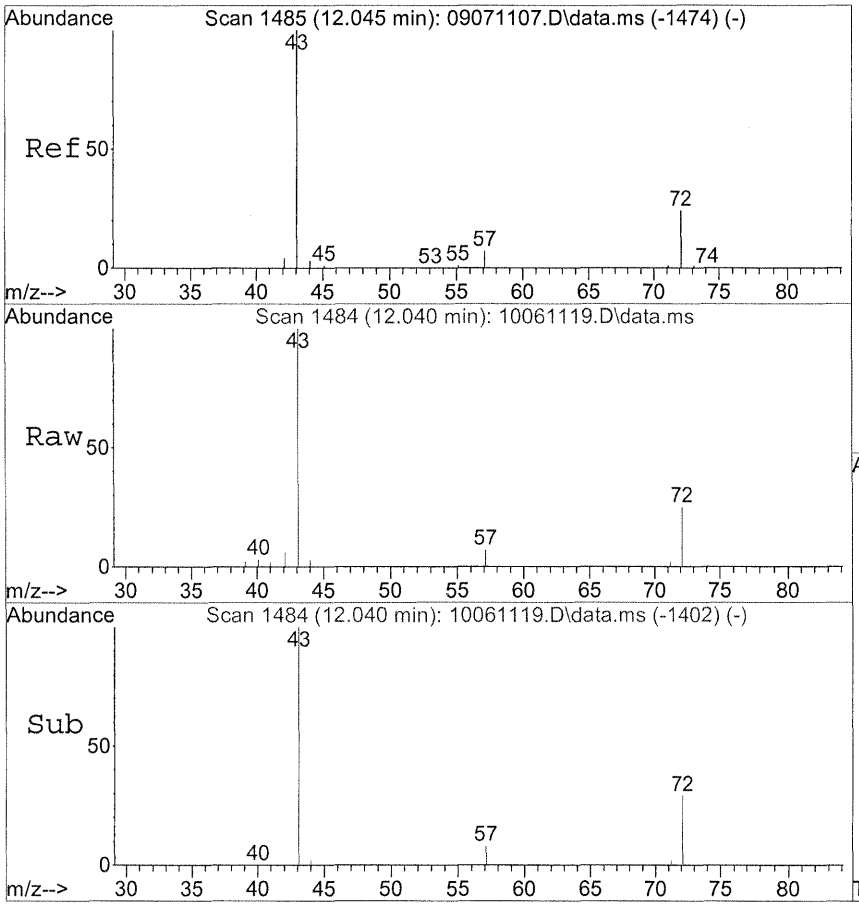


#26
Vinyl Acetate
Concen: 0.89 ng m
RT: 11.65 min Scan# 1415
Delta R.T. -0.103 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 86 Resp: 4213

Ion	Ratio	Lower	Upper
86	100		
43	435.6	825.7	865.7#

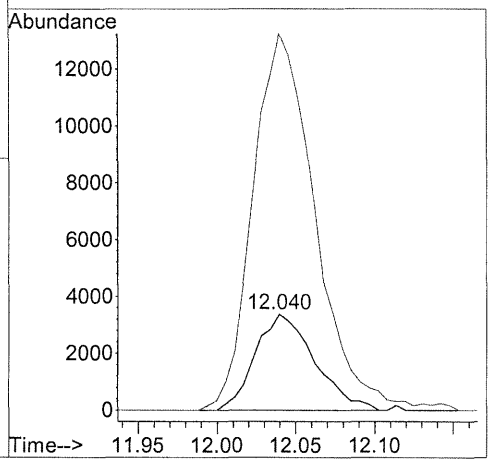


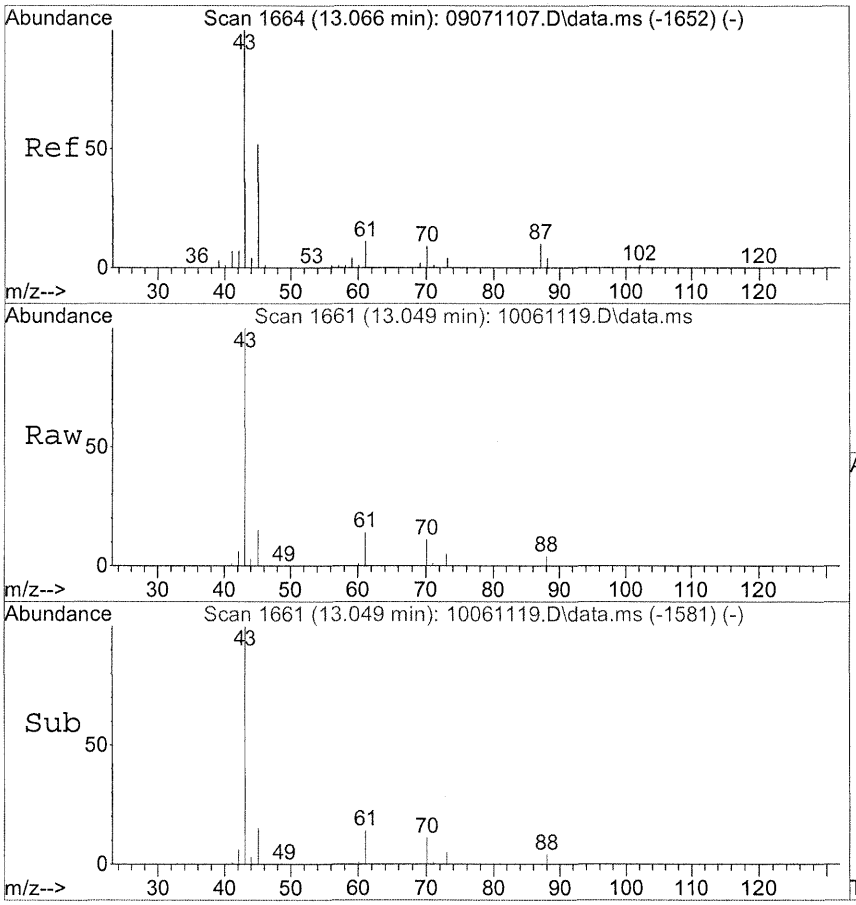


#27
2-Butanone (MEK)
Concen: 0.76 ng
RT: 12.04 min Scan# 1484
Delta R.T. -0.034 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 72 Resp: 8793

Ion	Ratio	Lower	Upper
72	100		
43	415.1	304.7	344.7#

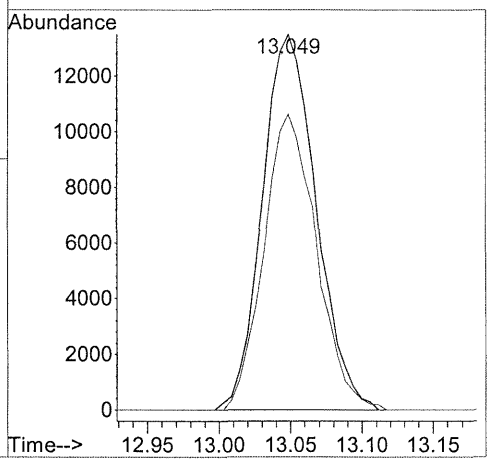


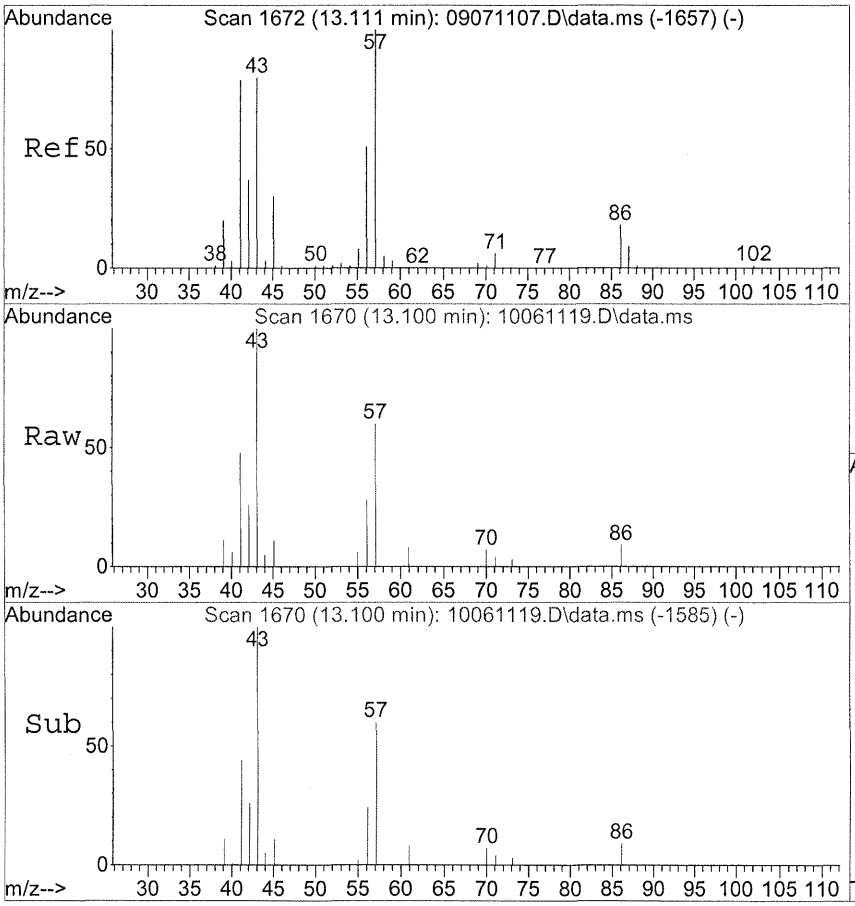


#30
Ethyl Acetate
Concen: 5.60 ng
RT: 13.05 min Scan# 1661
Delta R.T. -0.046 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 61 Resp: 35317

Ion	Ratio	Lower	Upper
61	100		
70	77.2	75.3	115.3

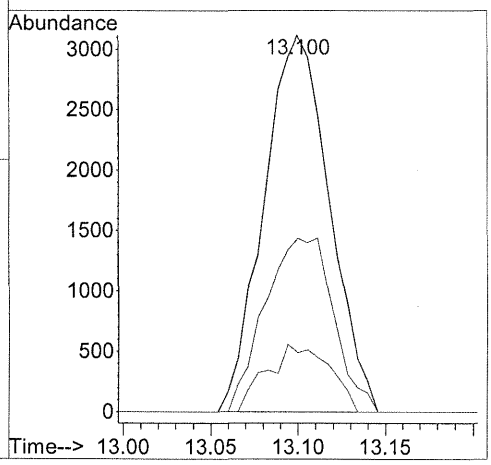


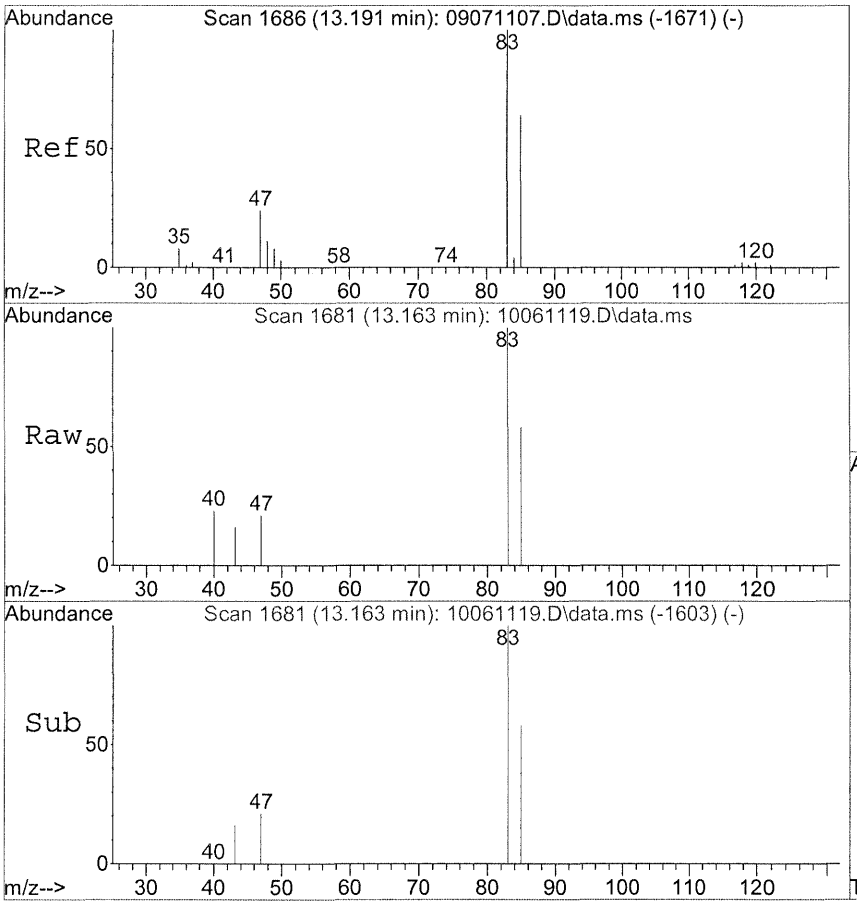


#31
n-Hexane
Concen: 0.25 ng
RT: 13.10 min Scan# 1670
Delta R.T. -0.017 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 57 Resp: 8102

Ion	Ratio	Lower	Upper
57	100		
56	48.3	41.8	62.8
86	17.0	17.0	25.4#

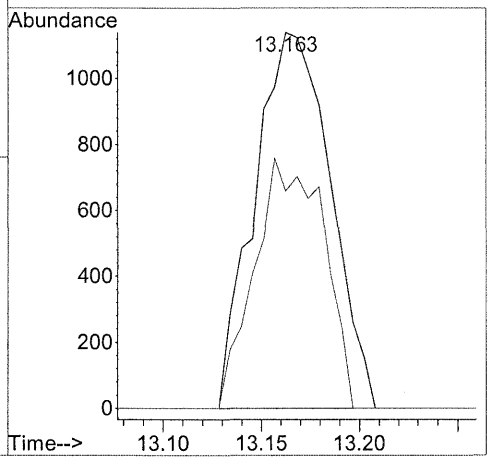


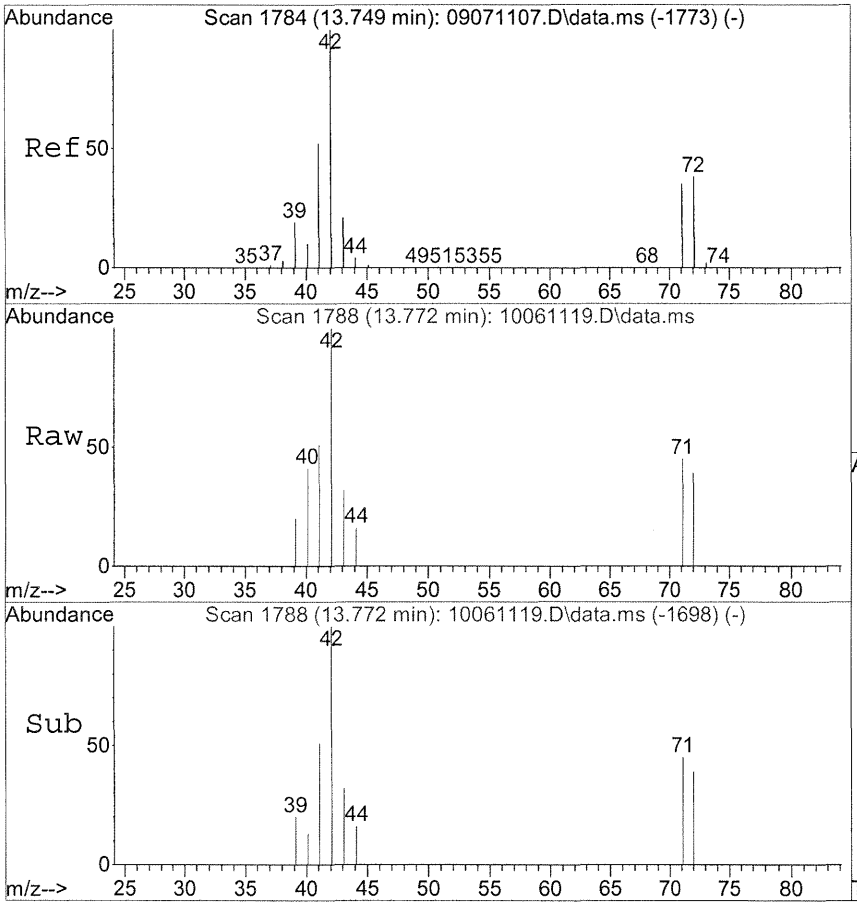


#32
Chloroform
Concen: 0.12 ng
RT: 13.16 min Scan# 1681
Delta R.T. -0.057 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 83 Resp: 3060

Ion	Ratio	Lower	Upper
83	100		
85	60.6	45.3	85.3

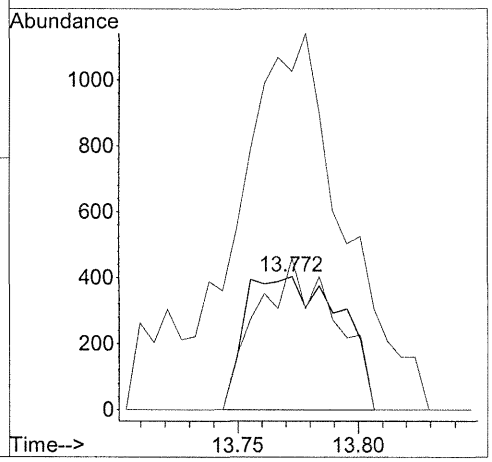


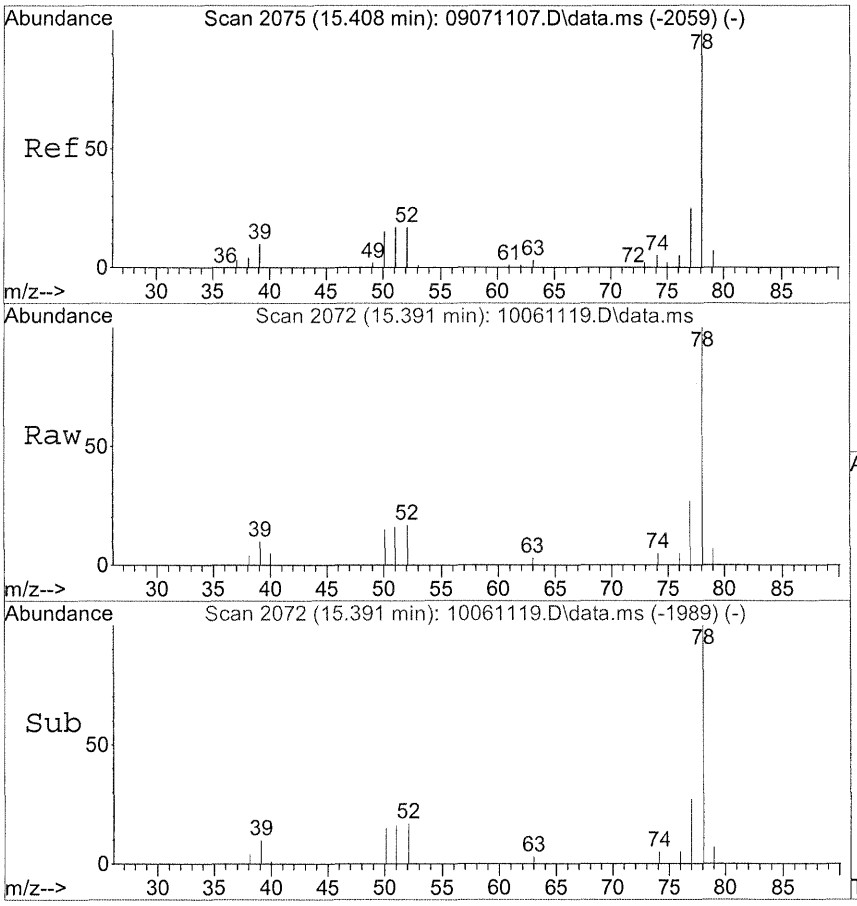


#34
Tetrahydrofuran (THF)
Concen: 0.10 ng
RT: 13.77 min Scan# 1788
Delta R.T. 0.011 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 72 Resp: 1100

Ion	Ratio	Lower	Upper
72	100		
71	92.5	75.1	115.1
42	307.5	168.1	208.1#

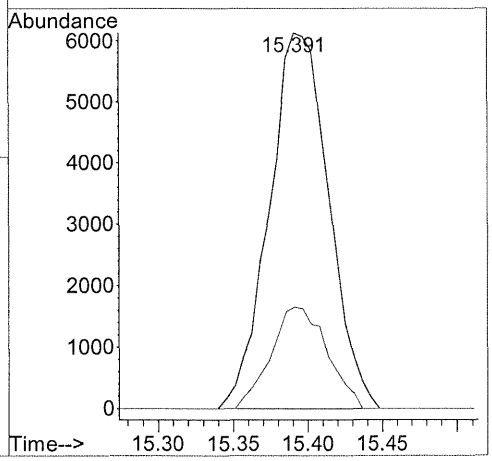


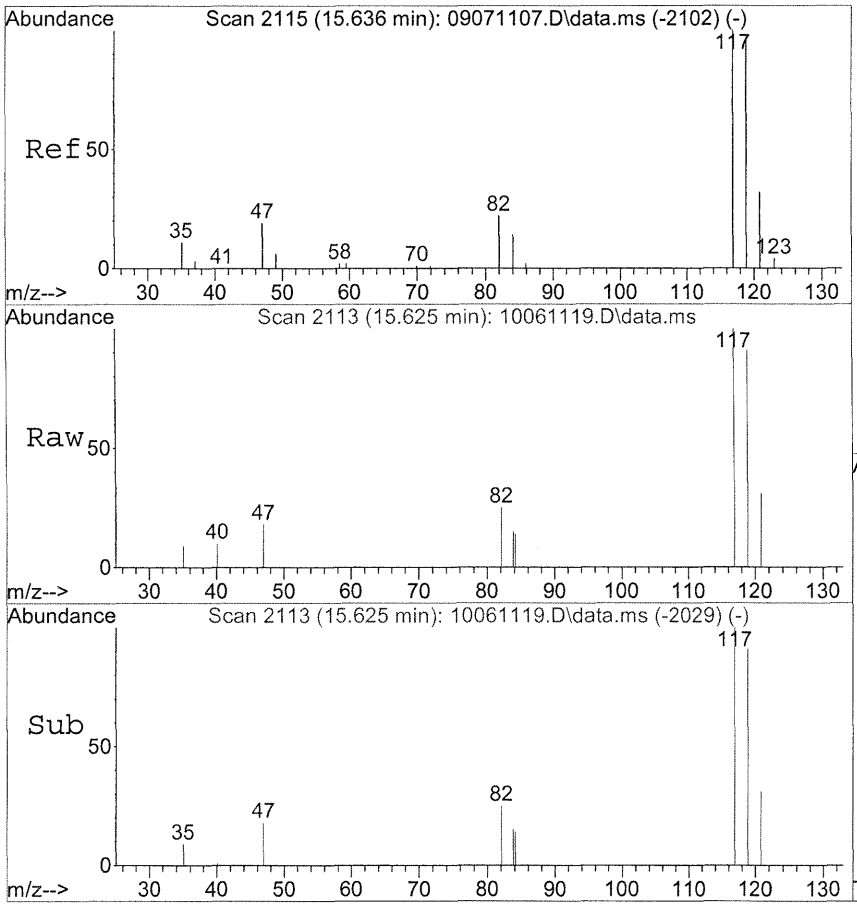


#41
Benzene
Concen: 0.26 ng
RT: 15.39 min Scan# 2072
Delta R.T. -0.029 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 78 Resp: 16951

Ion	Ratio	Lower	Upper
78	100		
77	25.5	4.0	44.0

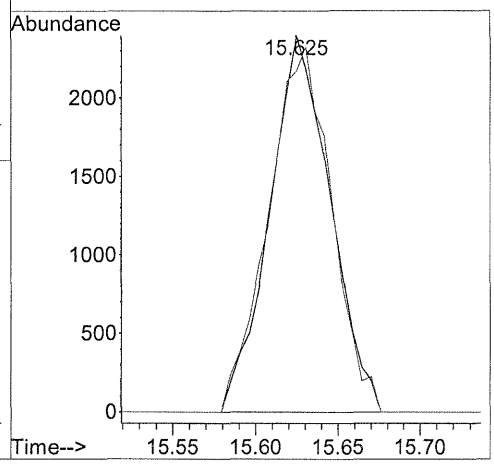


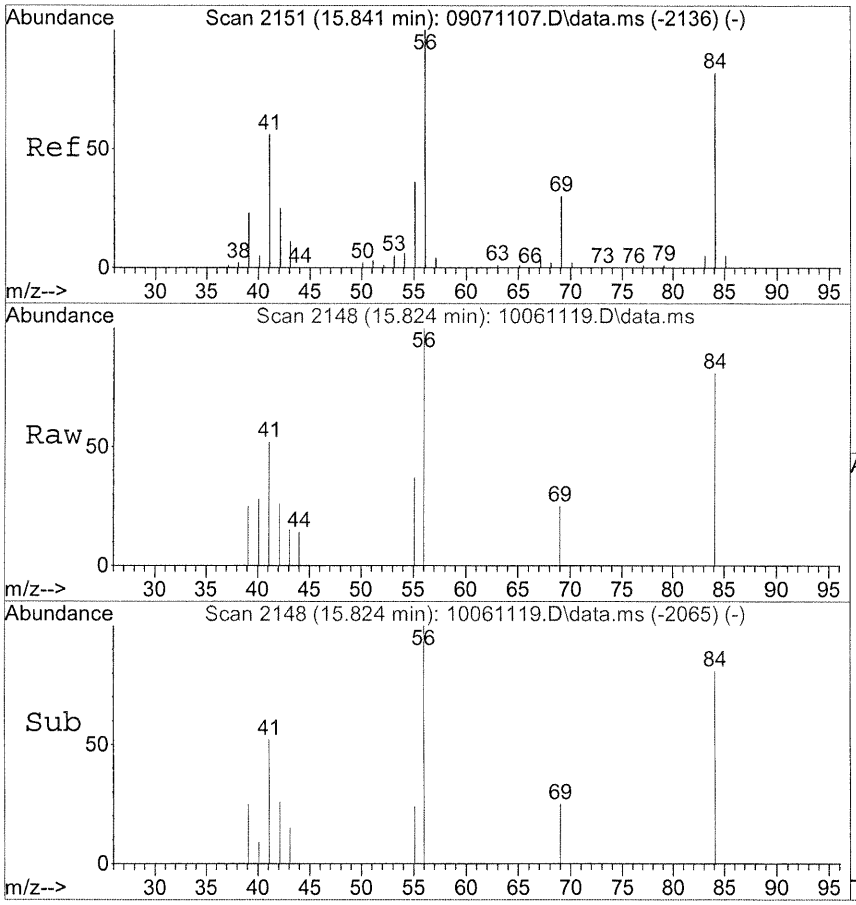


#42
Carbon Tetrachloride
Concen: 0.31 ng
RT: 15.62 min Scan# 2113
Delta R.T. -0.023 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion:117 Resp: 6139

Ion	Ratio	Lower	Upper
117	100		
119	101.1	77.0	117.0

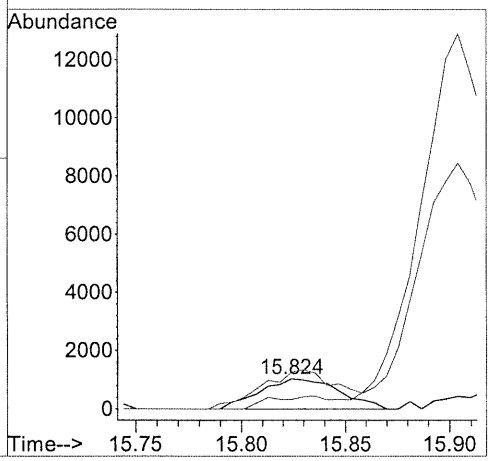


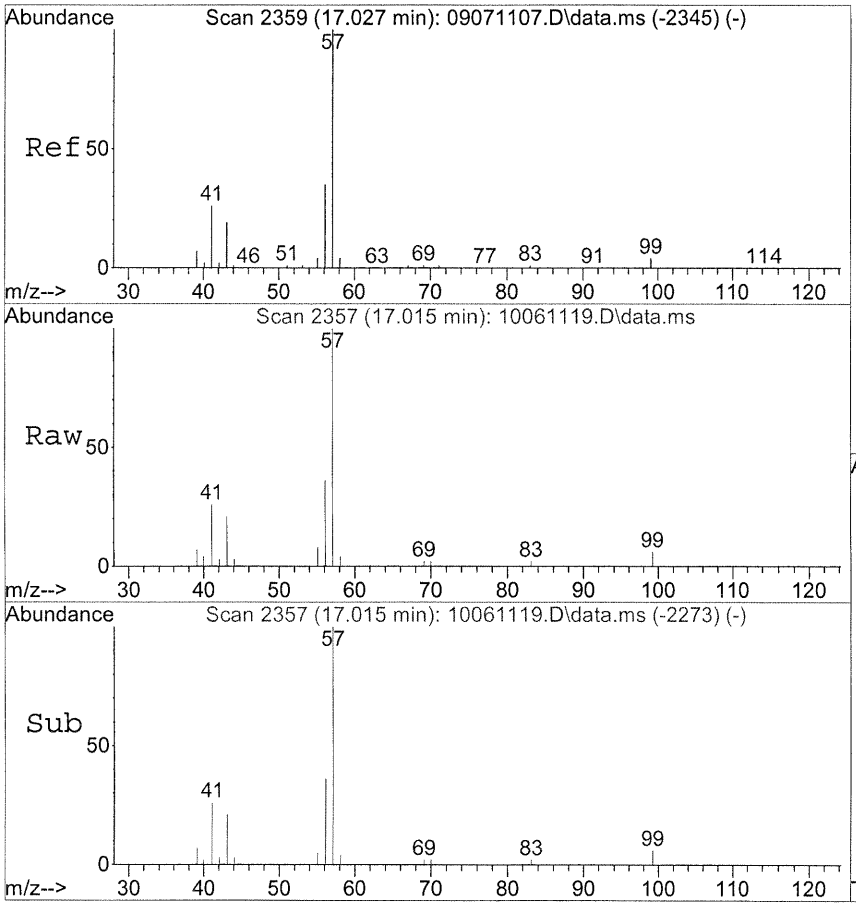


#43
Cyclohexane
Concen: 0.10 ng
RT: 15.82 min Scan# 2148
Delta R.T. -0.029 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 84 Resp: 2717

Ion	Ratio	Lower	Upper
84	100		
69	37.9	16.9	56.9
56	126.4	87.7	127.7

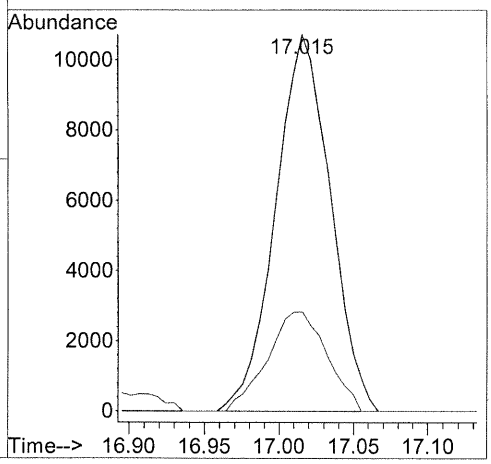


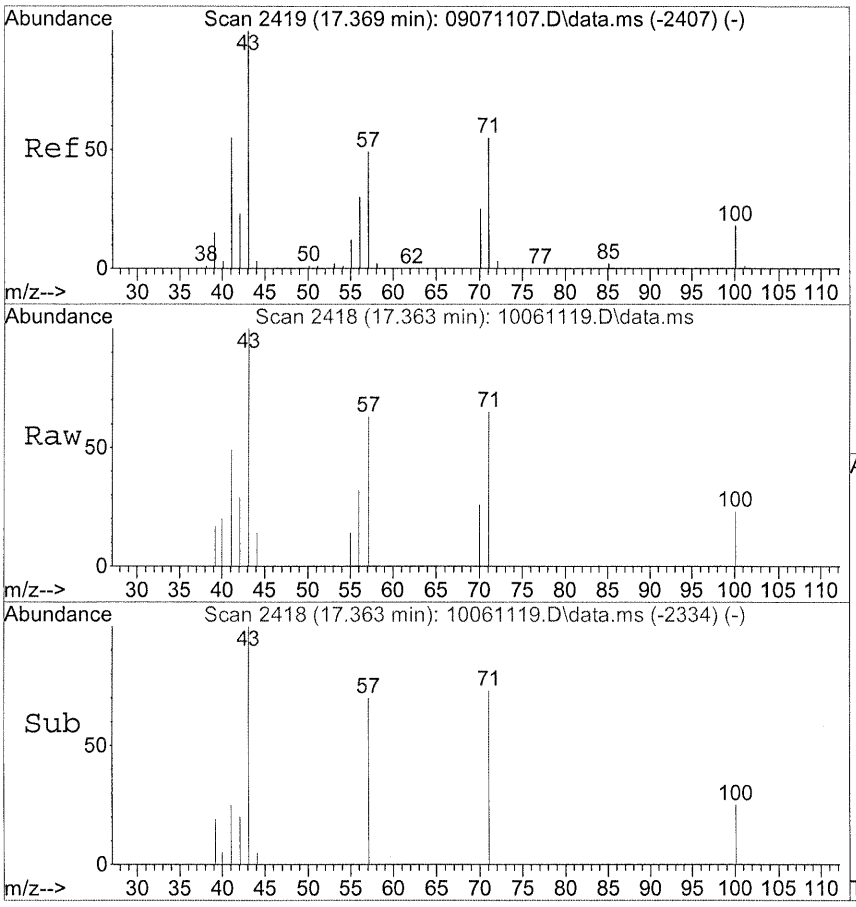


#49
2,2,4-Trimethylpentane (Isooc
Concen: 0.35 ng
RT: 17.02 min Scan# 2357
Delta R.T. -0.023 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 57 Resp: 27402

Ion	Ratio	Lower	Upper
57	100		
41	28.6	10.2	50.2

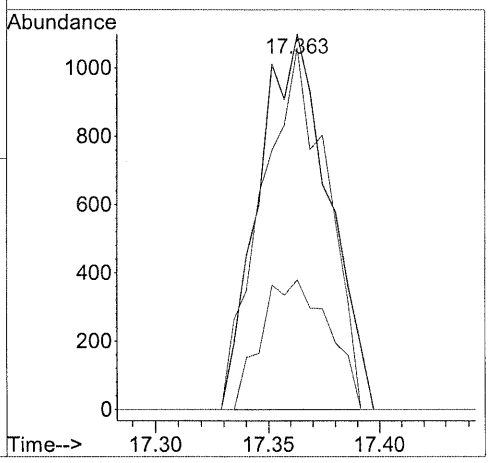


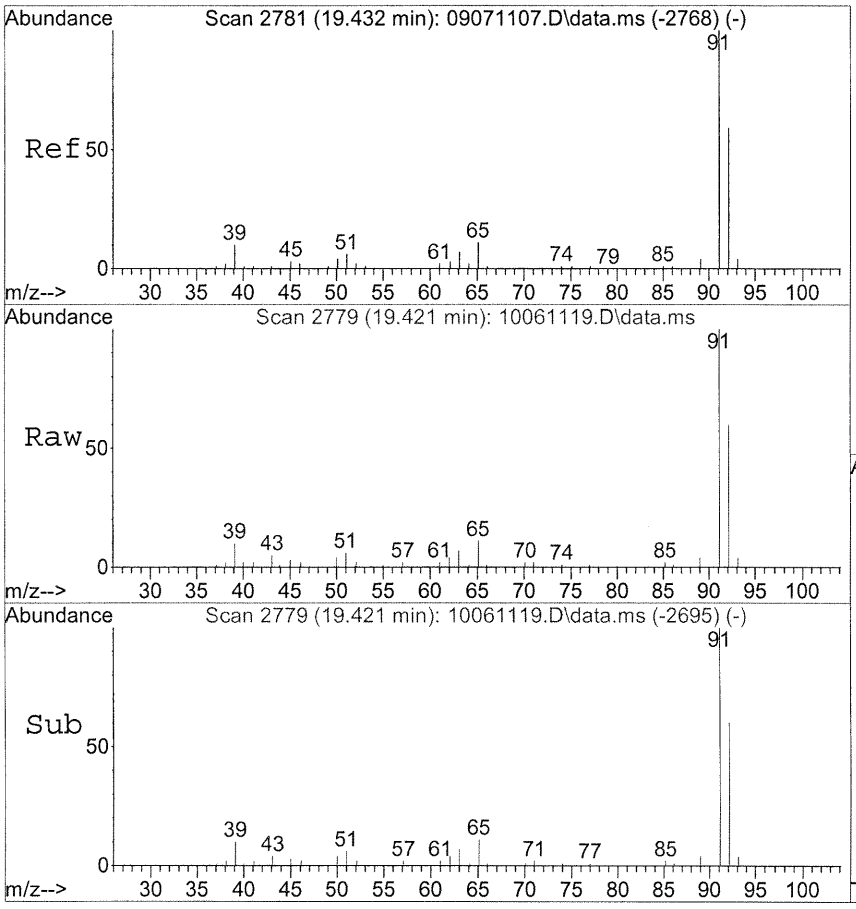


#51
n-Heptane
Concen: 0.13 ng
RT: 17.36 min Scan# 2418
Delta R.T. -0.023 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 71 Resp: 2386

Ion	Ratio	Lower	Upper
71	100		
57	90.5	59.7	99.7
100	33.4	15.2	55.2

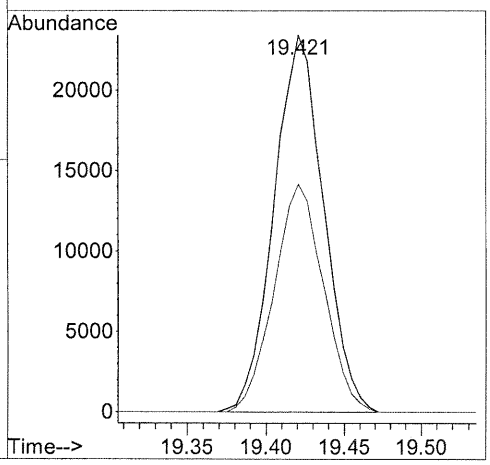


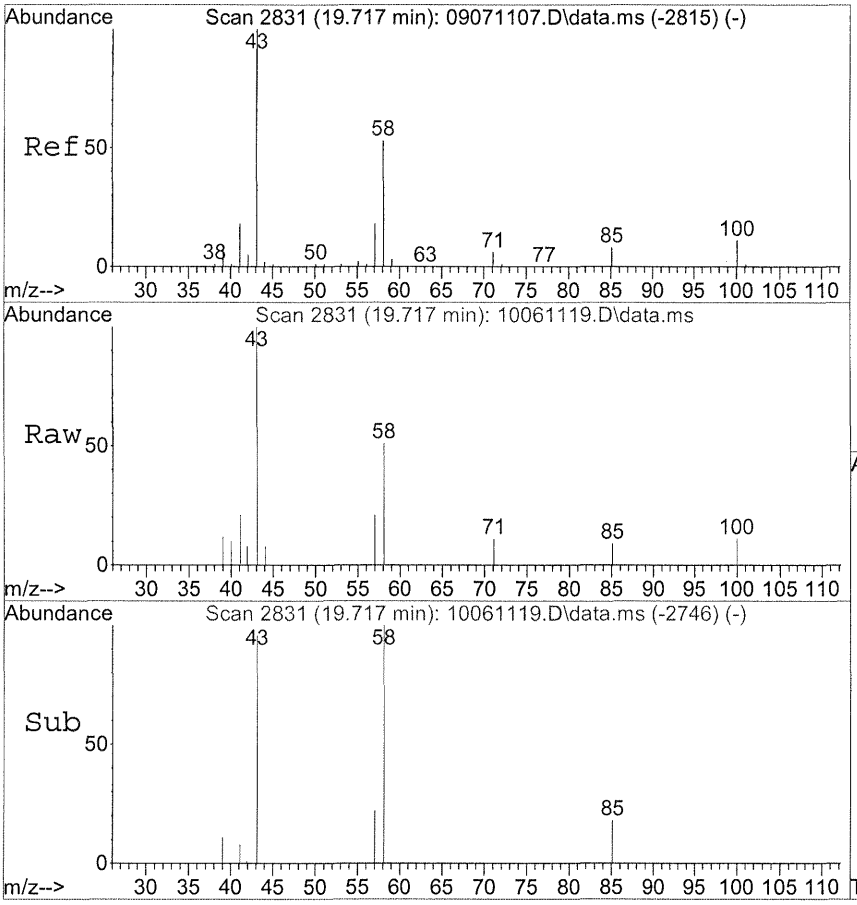


#58
Toluene
Concen: 0.75 ng
RT: 19.42 min Scan# 2779
Delta R.T. -0.023 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 91 Resp: 51570

Ion	Ratio	Lower	Upper
91	100		
92	60.4	38.8	78.8

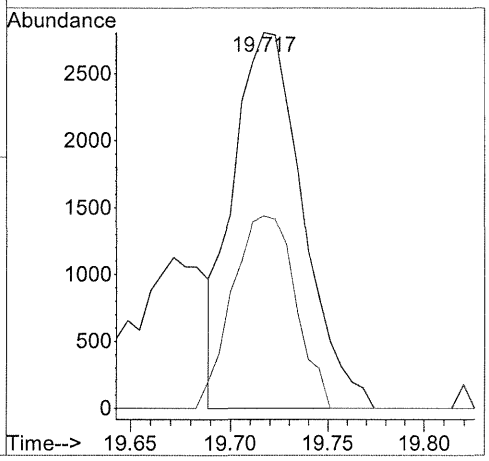


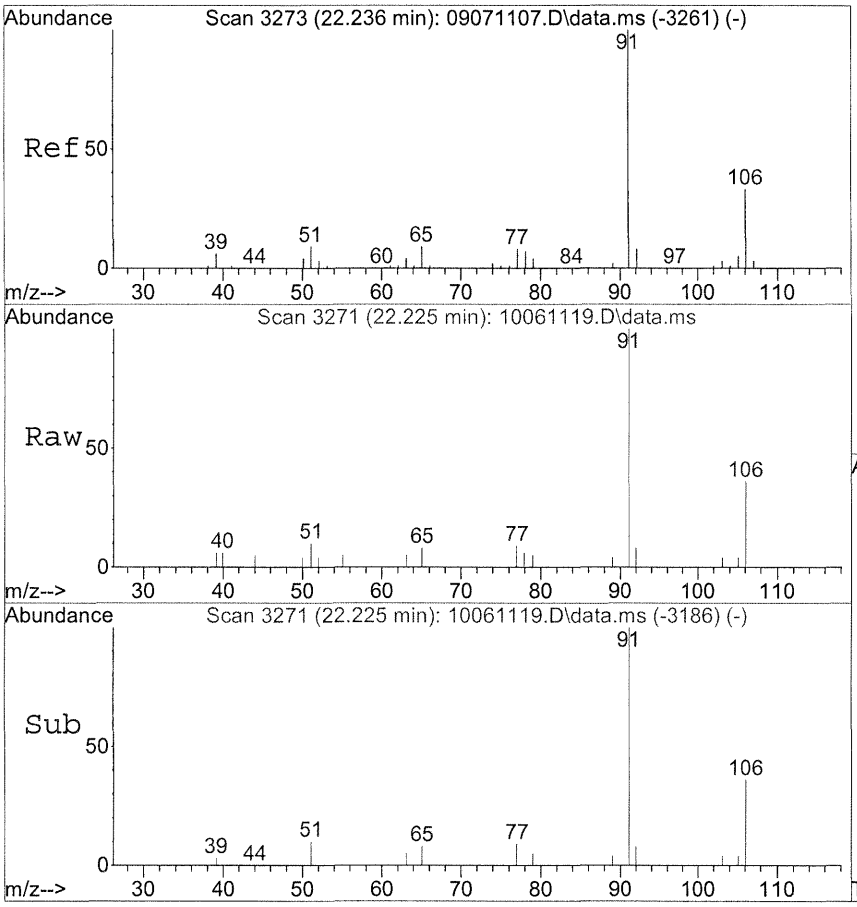


#59
2-Hexanone
Concen: 0.18 ng
RT: 19.72 min Scan# 2831
Delta R.T. -0.017 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 43 Resp: 6953

Ion	Ratio	Lower	Upper
43	100		
58	46.3	37.7	77.7

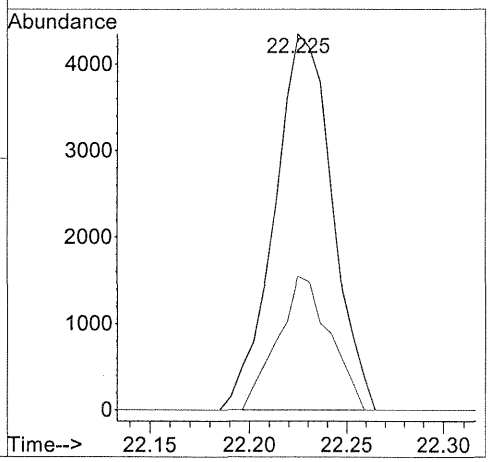


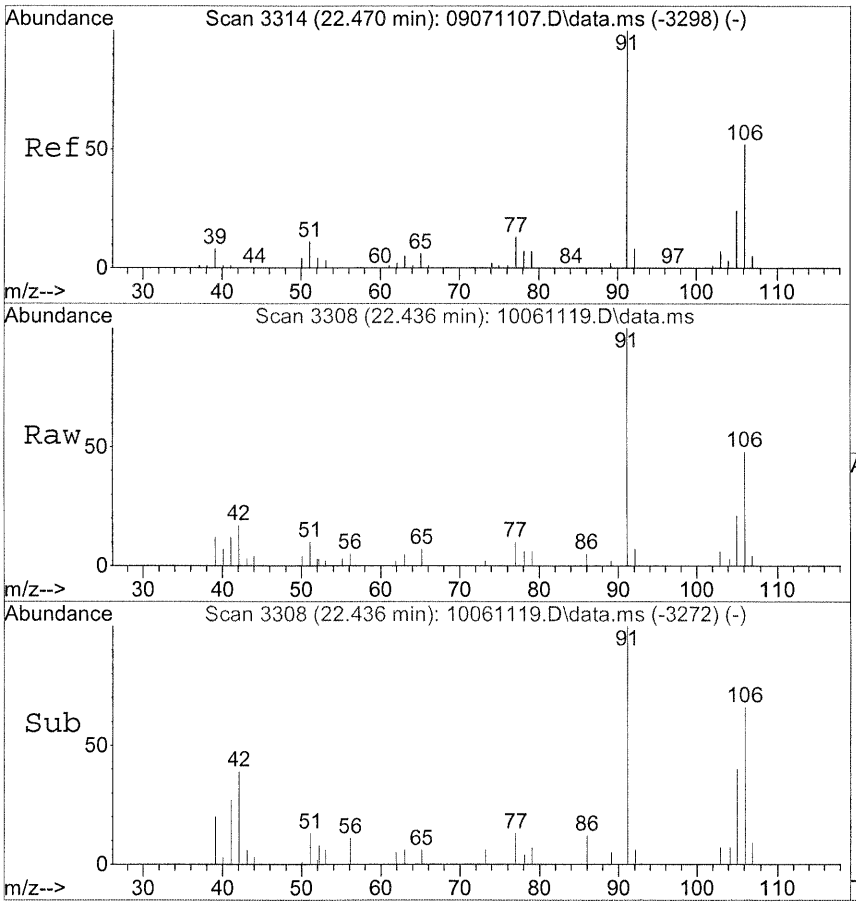


#66
Ethylbenzene
Concen: 0.12 ng
RT: 22.22 min Scan# 3271
Delta R.T. -0.017 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 91 Resp: 9018

Ion	Ratio	Lower	Upper
91	100		
106	32.0	12.0	52.0

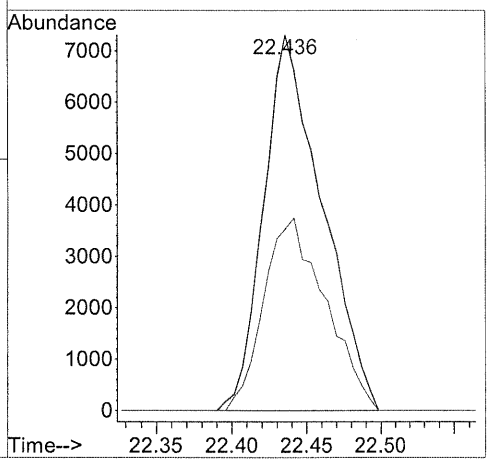


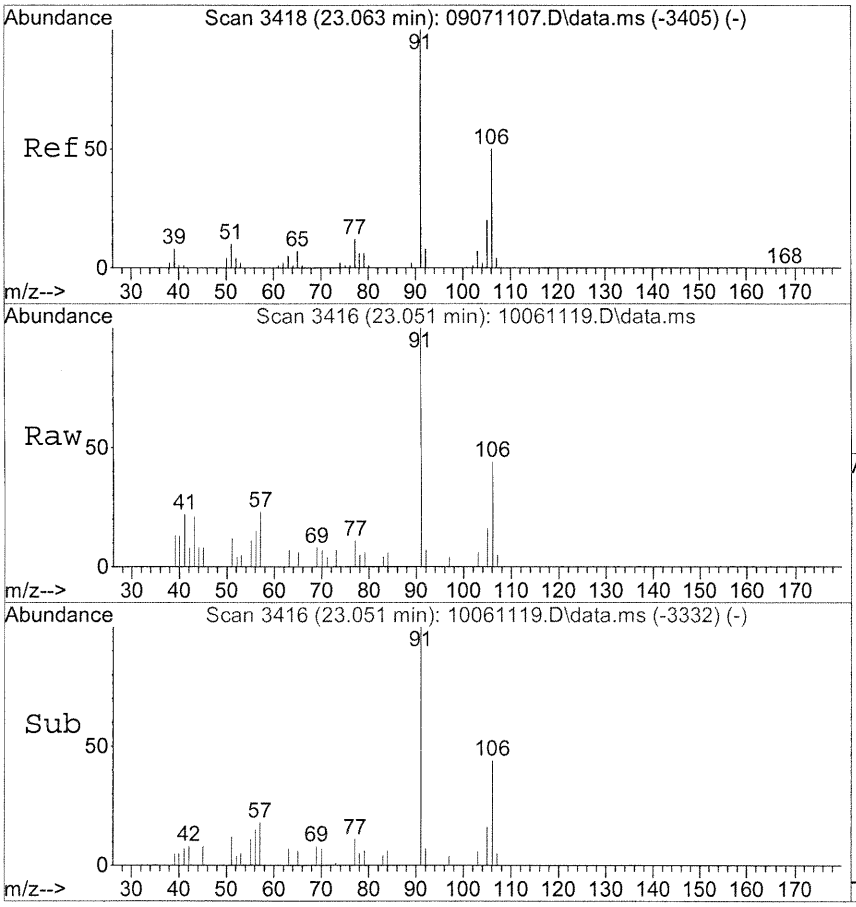


#67
m- & p-Xylenes
Concen: 0.33 ng
RT: 22.44 min Scan# 3308
Delta R.T. -0.046 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 91 Resp: 19912

Ion	Ratio	Lower	Upper
91	100		
106	53.9	27.4	67.4

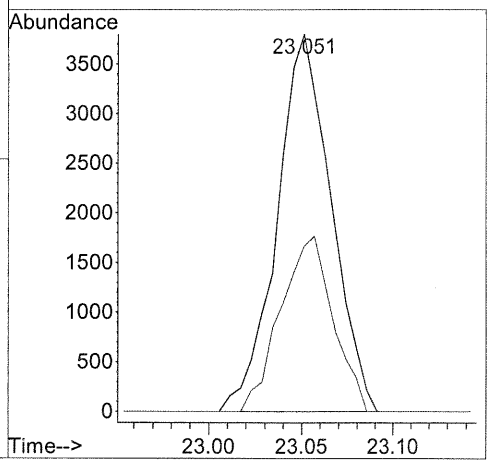


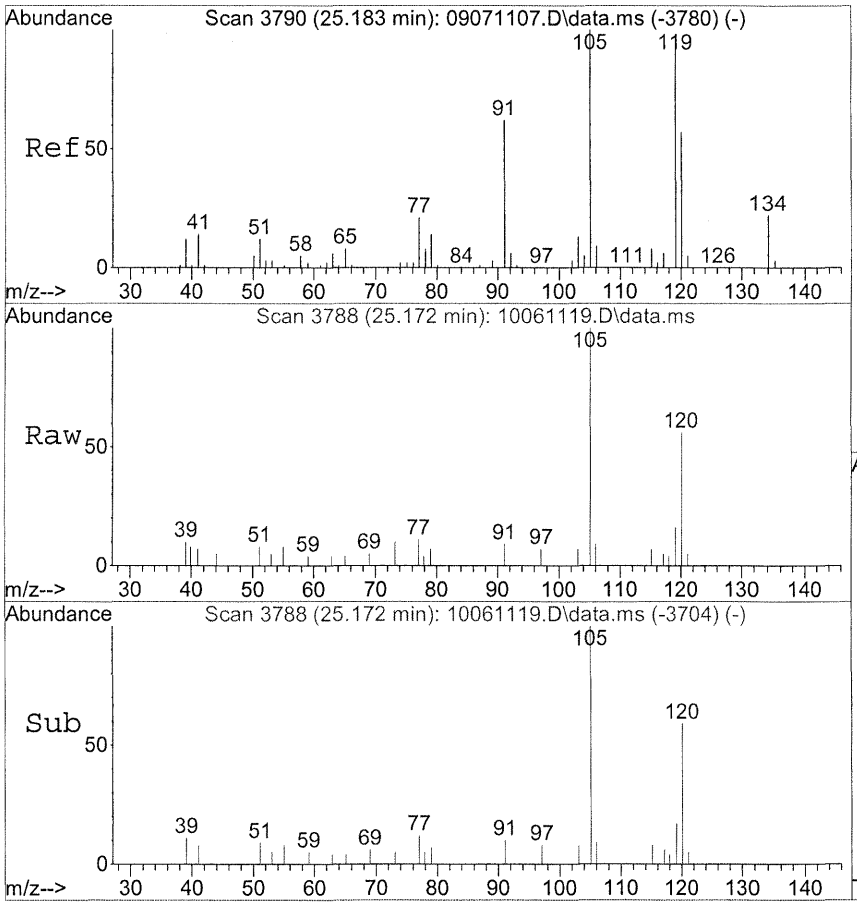


#70
o-Xylene
Concen: 0.12 ng
RT: 23.05 min Scan# 3416
Delta R.T. -0.023 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 91 Resp: 7743

Ion	Ratio	Lower	Upper
91	100		
106	45.0	25.7	65.7

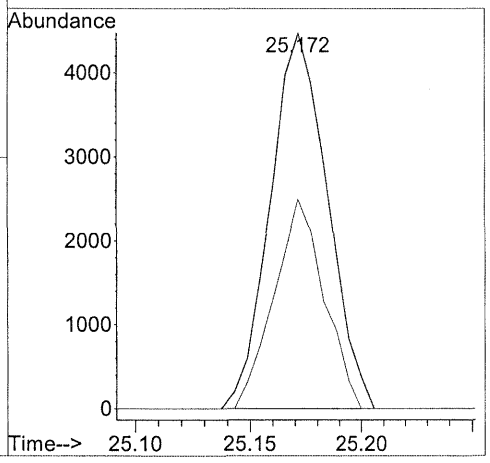


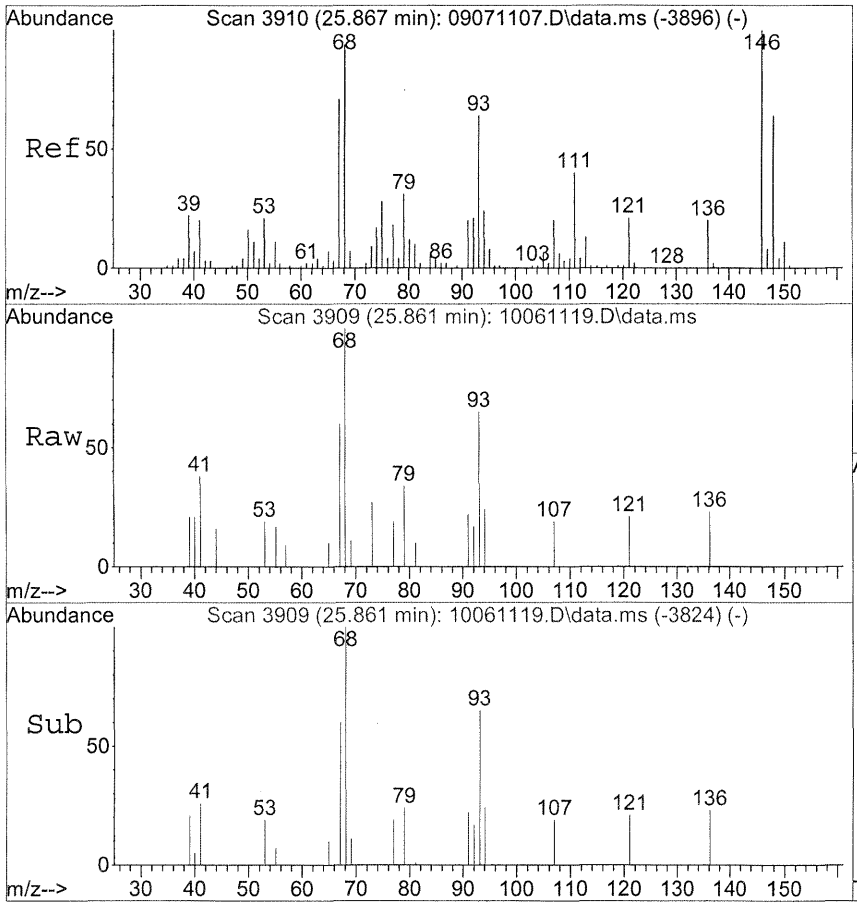


#82
1,2,4-Trimethylbenzene
Concen: 0.12 ng
RT: 25.17 min Scan# 3788
Delta R.T. -0.023 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion:105 Resp: 7957

Ion	Ratio	Lower	Upper
105	100		
120	48.8	29.9	69.9

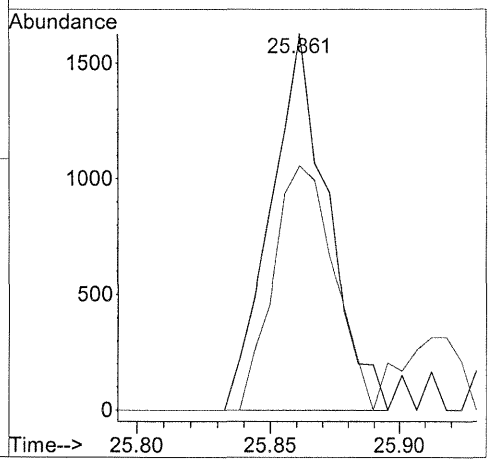




#91
d-Limonene
Concen: 0.09 ng
RT: 25.86 min Scan# 3909
Delta R.T. -0.017 min
Lab File: 10061119.D
Acq: 7 Oct 2011 7:13

Tgt Ion: 68 Resp: 2473

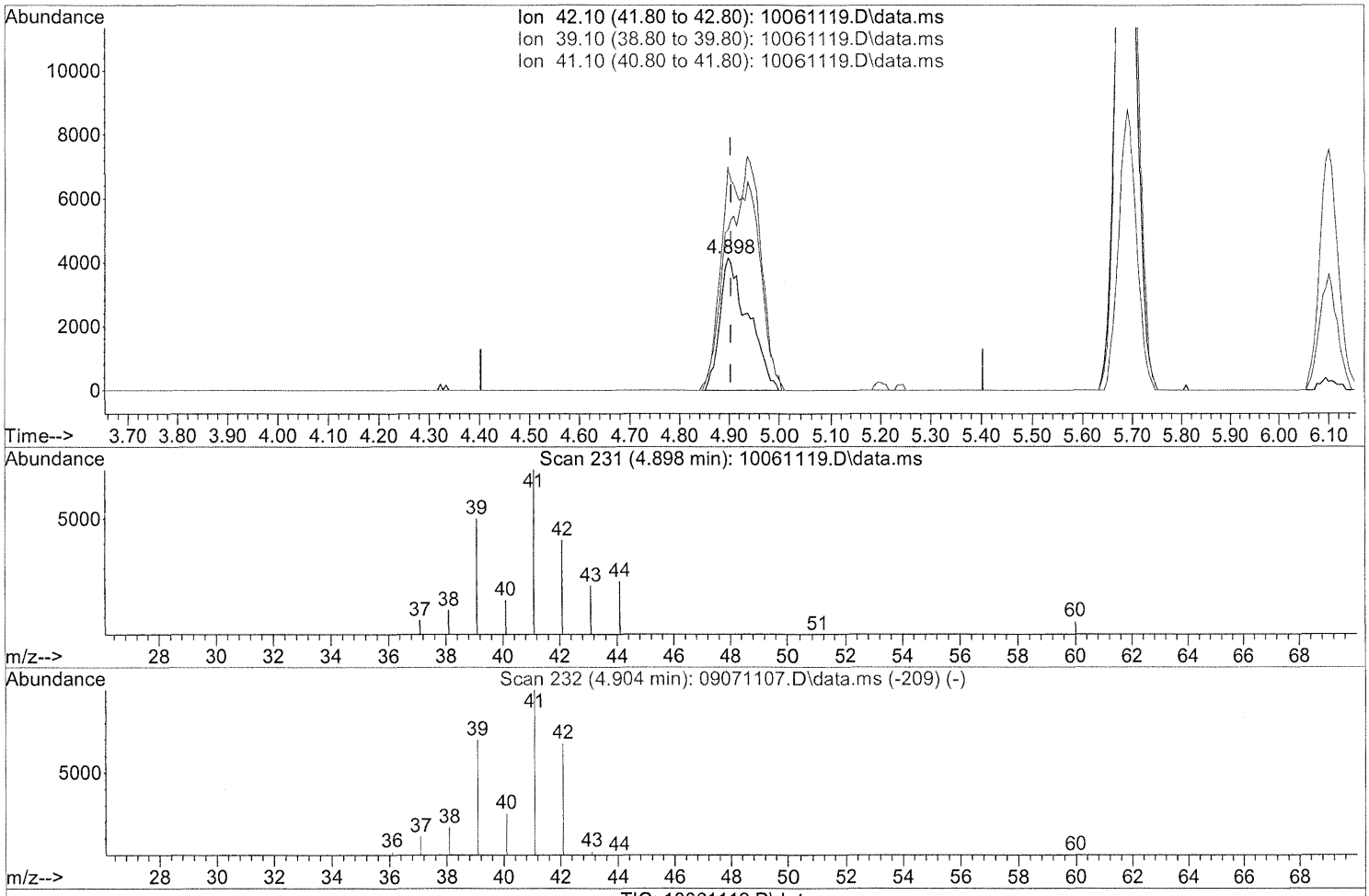
Ion	Ratio	Lower	Upper
68	100		
93	69.6	51.7	91.7



Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061119.D\data.ms

(2) Propene (T)

4.898min (-0.006) 0.67ng

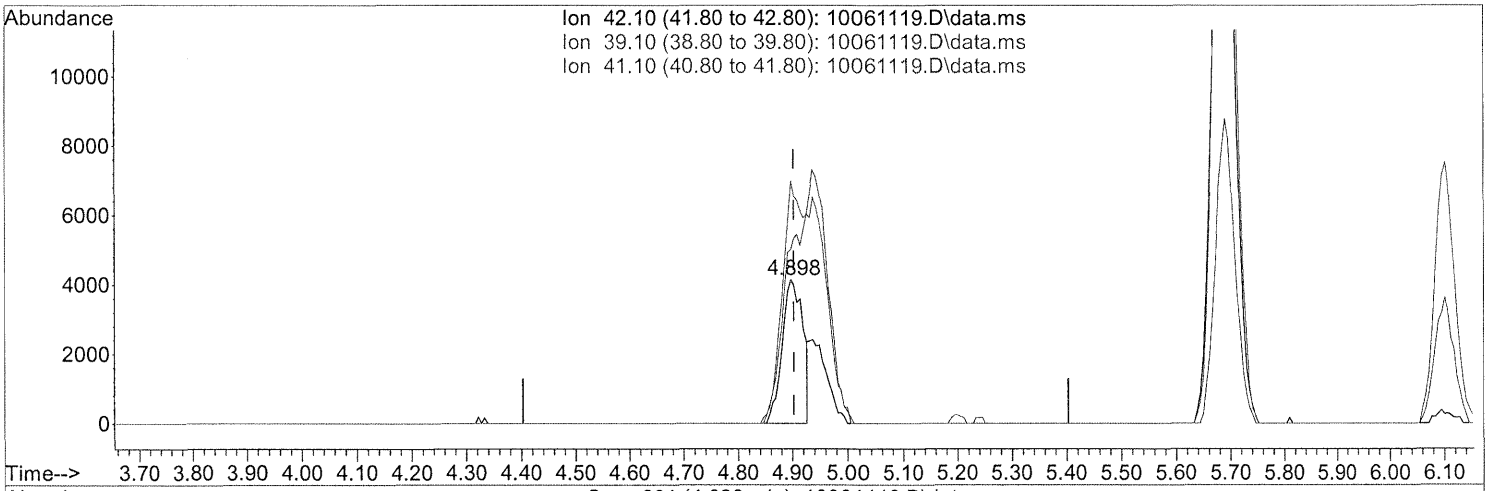
response 16451

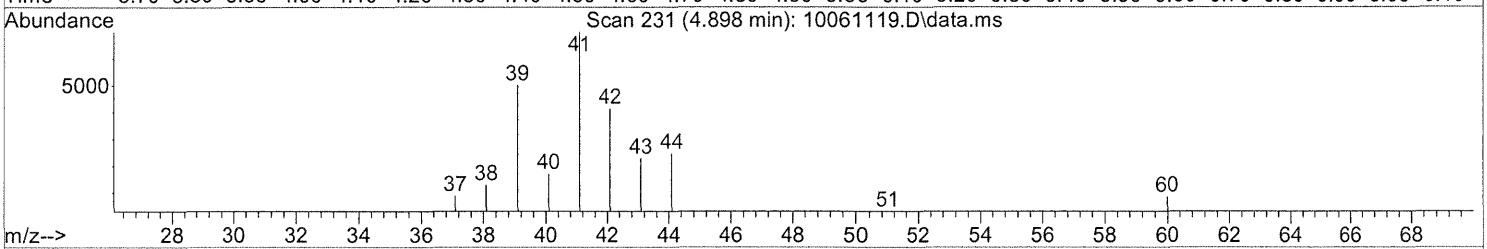
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	213.34#
0.00	0.00	0.00

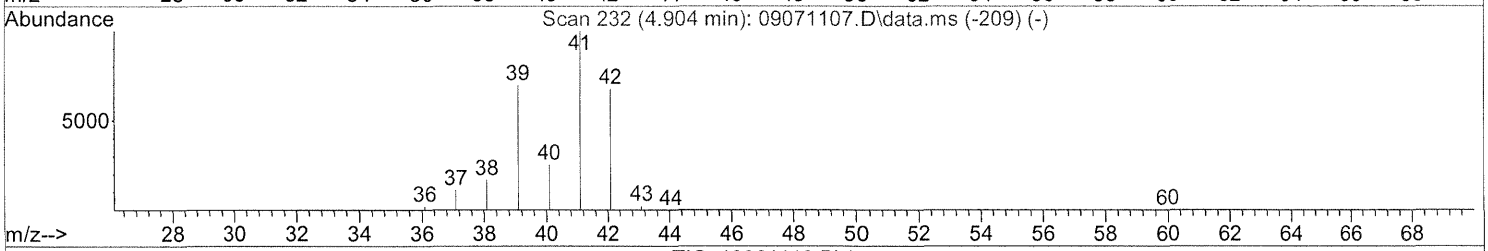
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061119.D\data.ms

(2) Propene (T)

4.898min (-0.006) 0.45ng m

response 10951

Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	320.48#
0.00	0.00	0.00

IPC
EM 10/7/11
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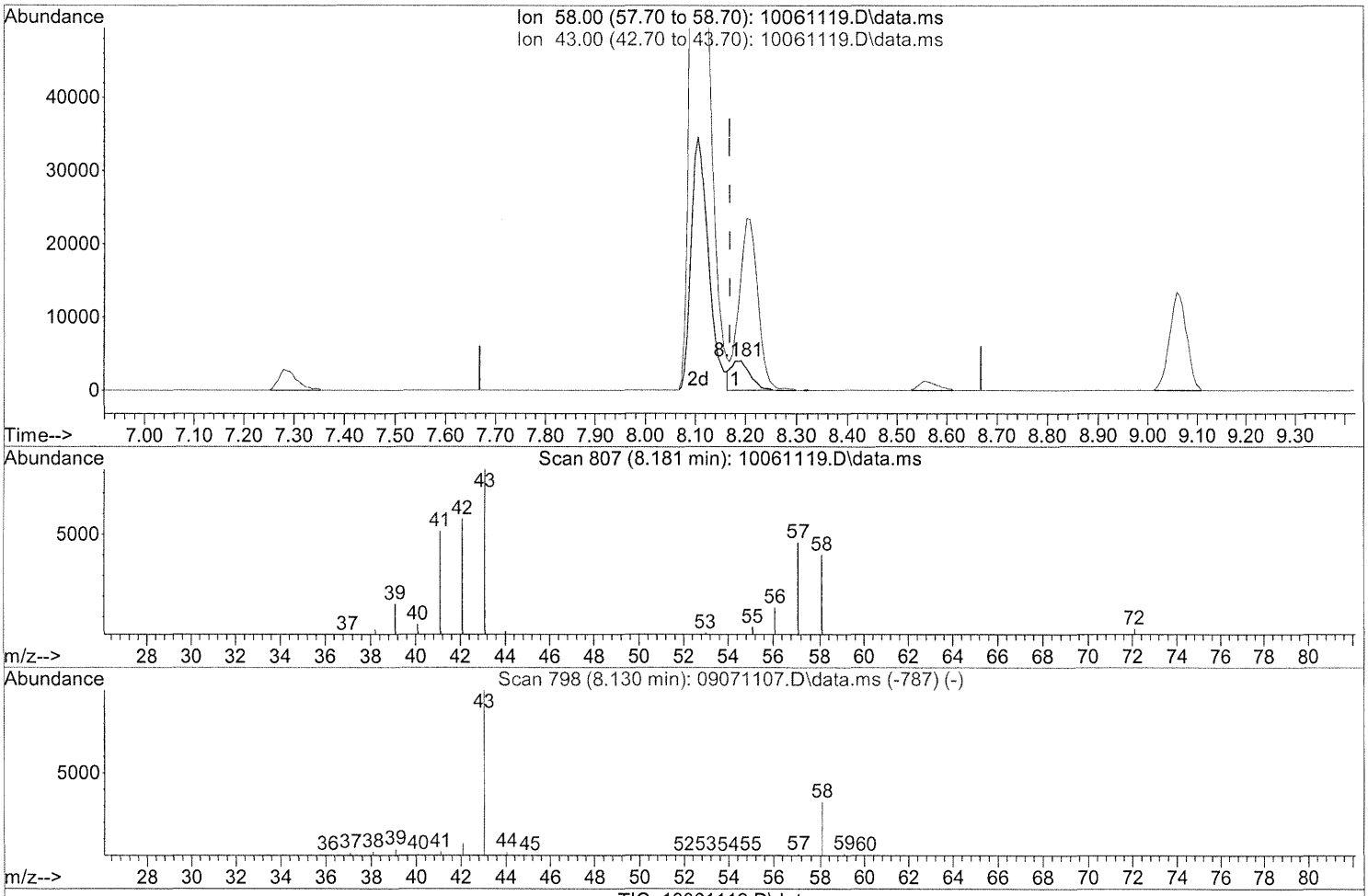
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061119.D\data.ms

(13) Acetone (T)

8.181min (+0.011) 0.79ng

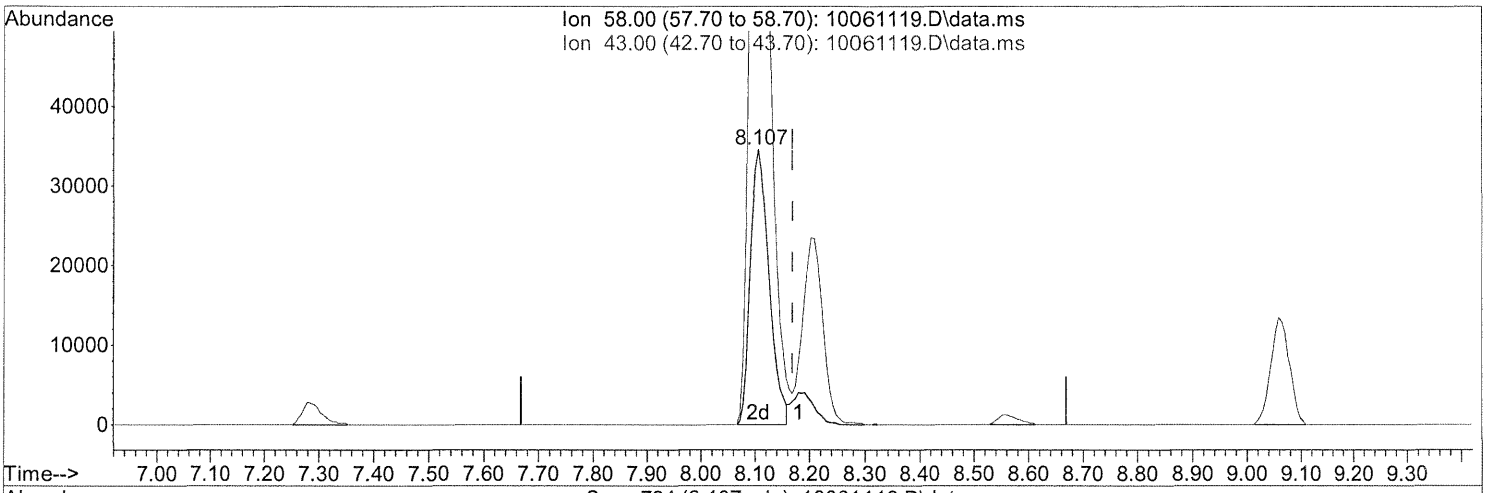
response 10607

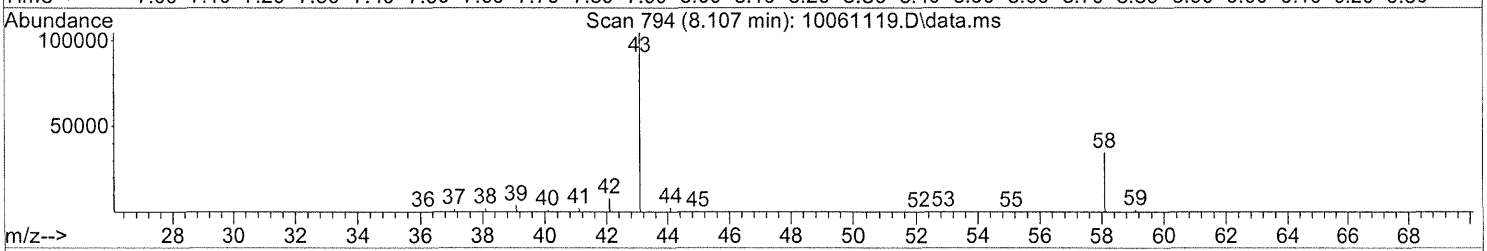
Ion	Exp%	Act%
58.00	100	100
43.00	313.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

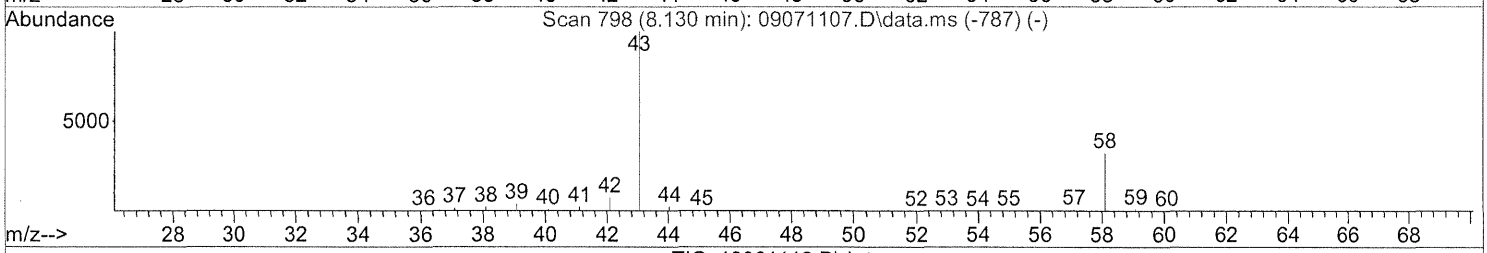
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061119.D\data.ms

(13) Acetone (T)

8.107min (-0.063) 6.12ng m

response 82537

Ion	Exp%	Act%
58.00	100	100
43.00	313.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

WP
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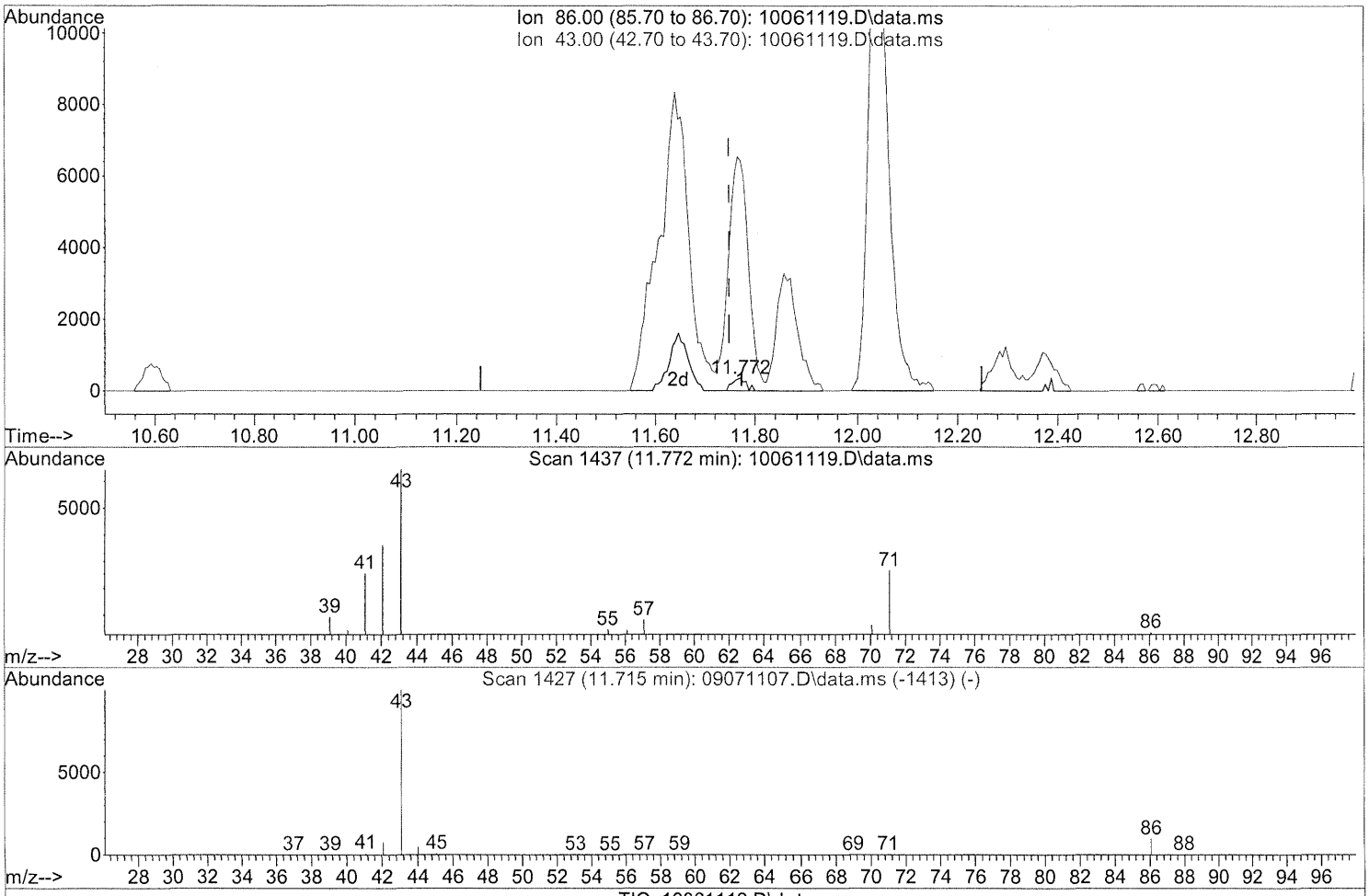
10/7/11

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061119.D\data.ms

(26) Vinyl Acetate (T)

11.772min (+0.023) 0.14ng

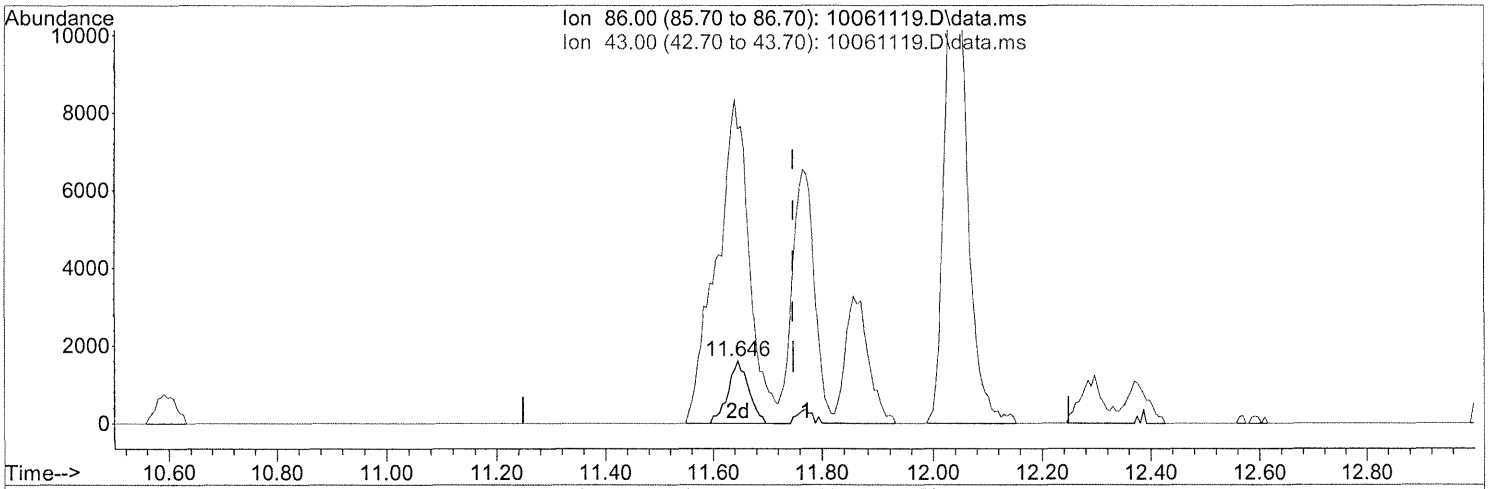
response 662

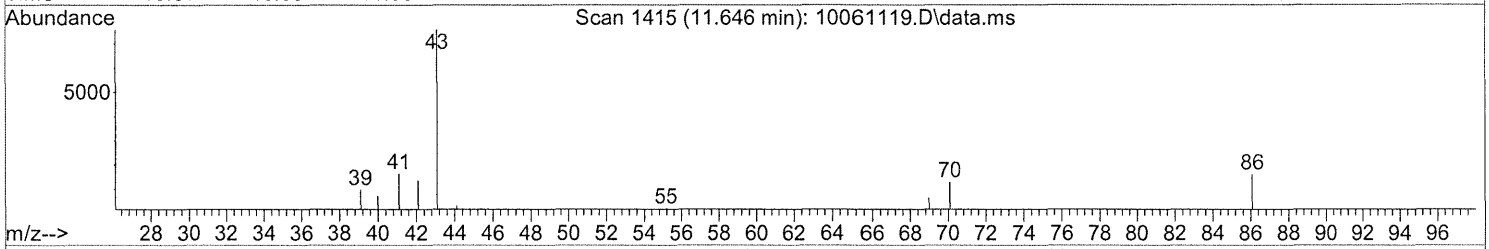
Ion	Exp%	Act%
86.00	100	100
43.00	845.70	2772.21#
0.00	0.00	0.00
0.00	0.00	0.00

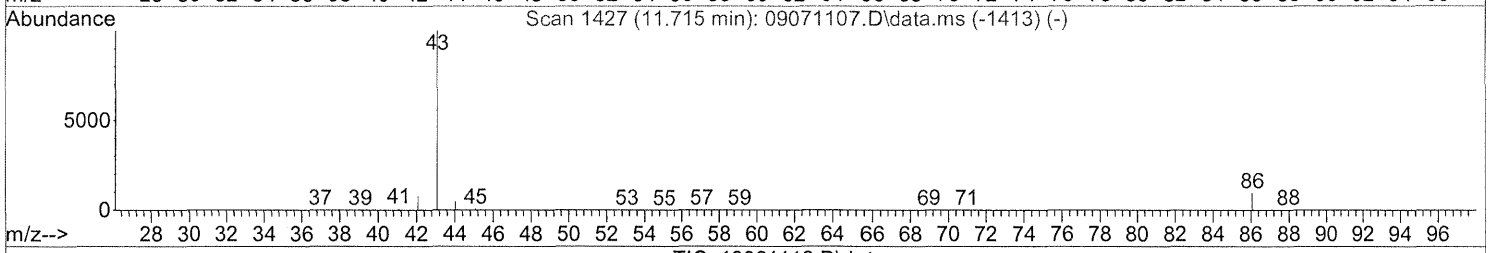
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061119.D\data.ms

(26) Vinyl Acetate (T)

11.646min (-0.103) 0.89ng m

response 4213

Ion	Exp%	Act%
86.00	100	100
43.00	845.70	435.60#
0.00	0.00	0.00
0.00	0.00	0.00

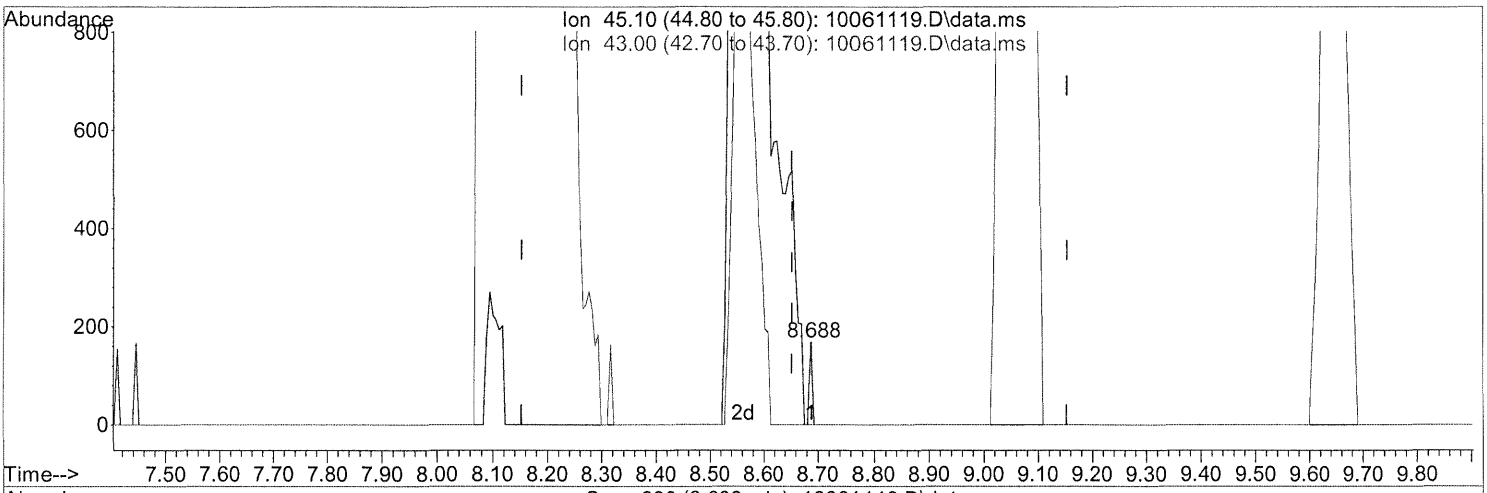
WP
10/7/11

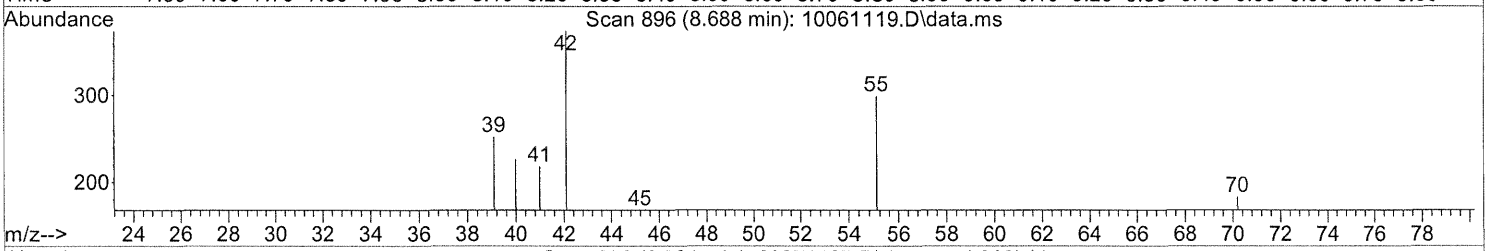
10/7/11

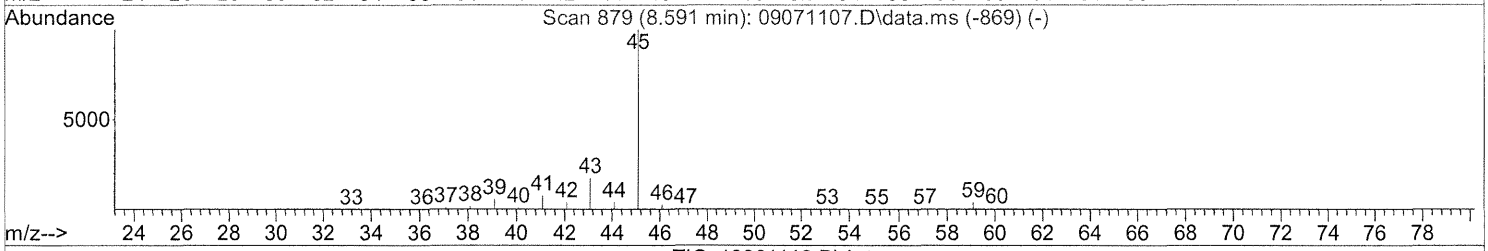
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:49:04 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061119.D\data.ms

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

8.688min (+0.034) 0.00ng

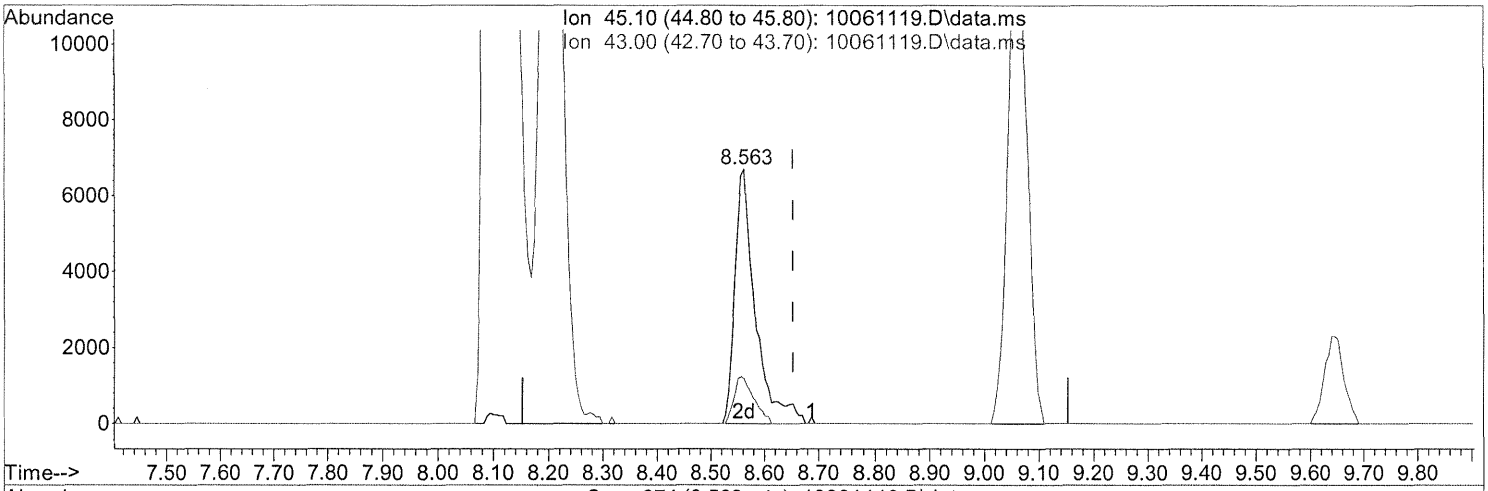
response 57

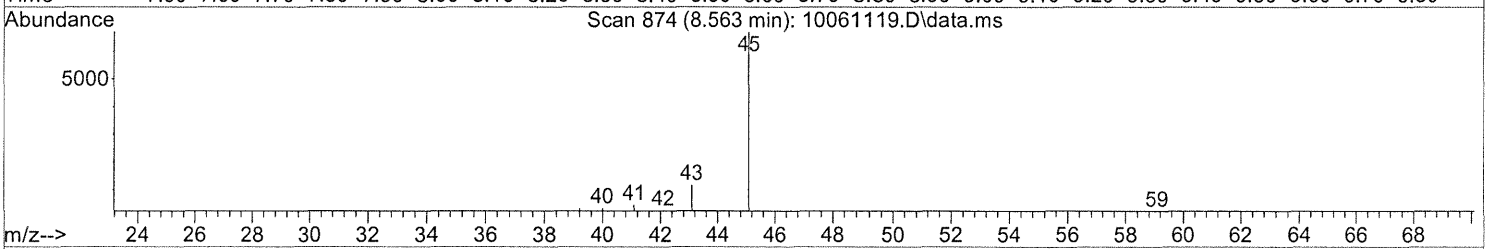
Ion	Exp%	Act%
45.10	100	100
43.00	21.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

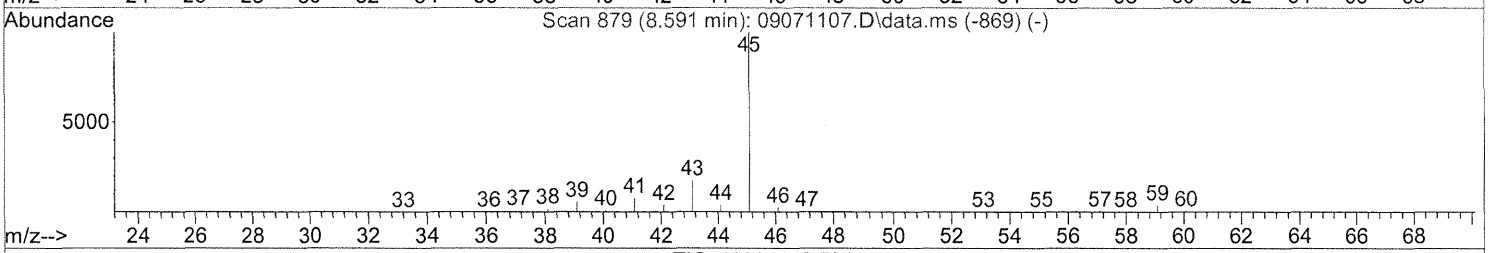
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:49:04 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061119.D\data.ms

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

8.563min (-0.091) 0.47ng m

response 17838

Ion	Exp%	Act%
45.10	100	100
43.00	21.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

mp

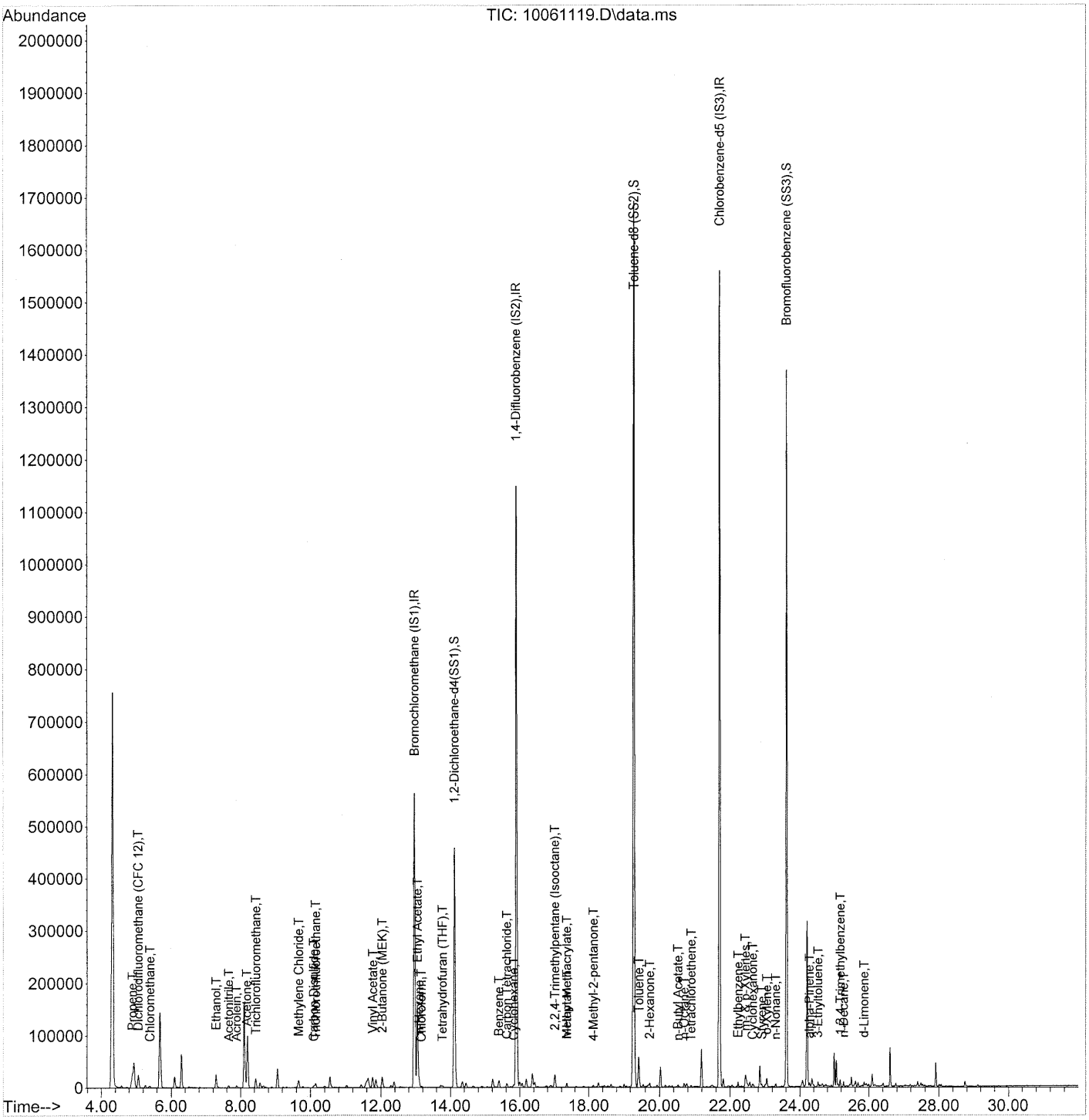
sm 10/7/11

10/7/11

Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13 am
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13 am
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	304514	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.90	114	1367845	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	643759	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	441307	24.247	ng		-0.03
Spiked Amount 25.000			Recovery = 97.00%				
57) Toluene-d8 (SS2)	19.29	98	1493446	24.961	ng		-0.02
Spiked Amount 25.000			Recovery = 99.84%				
73) Bromofluorobenzene (SS3)	23.62	174	537597	25.469	ng		-0.01
Spiked Amount 25.000			Recovery = 101.88%				
Target Compounds							Qvalue
2) Propene	4.90	42	16451	0.674	ng	#	25
3) Dichlorodifluoromethan...	5.06	85	37505	1.244	ng		99
4) Chloromethane	5.41	50	3561	0.141	ng		96
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	924	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.18	54	610	N.D.			
8) Bromomethane	6.69	94	667	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	7.29	45	35095	2.490	ng		99
11) Acetonitrile	7.66	41	5087	0.155	ng		89
12) Acrolein	7.88	56	5294	0.496	ng		99
13) Acetone	8.18	58	10607	0.787	ng	#	1
14) Trichlorofluoromethane	8.44	101	20118	0.742	ng		98
15) 2-Propanol (Isopropanol)	8.69	45	57	N.D.			
16) Acrylonitrile	8.90	53	325	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.58	59	1383	N.D.			
19) Methylene Chloride	9.67	84	7517	0.449	ng		87
20) 3-Chloro-1-propene (Al...	9.78	41	493	N.D.			
21) Trichlorotrifluoroethane	10.15	151	4064	0.288	ng		99
22) Carbon Disulfide	10.10	76	7665	0.132	ng		92
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	11.58	73	708	N.D.			
26) Vinyl Acetate	11.77	86	662	0.140	ng	#	1
27) 2-Butanone (MEK)	12.04	72	8793	0.756	ng	#	56
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.06	87	193	N.D.			
30) Ethyl Acetate	13.05	61	35317	5.603	ng		81
31) n-Hexane	13.10	57	8102	0.249	ng	#	93

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13 am
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.16	83	3060	0.125 ng		94
34) Tetrahydrofuran (THF)	13.77	72	1100	0.102 ng	#	45
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.27	62	385	N.D.		
38) 1,1,1-Trichloroethane	14.72	97	230	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.32	56	61	N.D.		
41) Benzene	15.39	78	16951	0.264 ng		97
42) Carbon Tetrachloride	15.62	117	6139	0.308 ng		96
43) Cyclohexane	15.82	84	2717	0.097 ng		86
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.89	83	411	N.D.		
47) Trichloroethene	16.92	130	114	N.D.		
48) 1,4-Dioxane	16.90	88	55	N.D.		
49) 2,2,4-Trimethylpentane...	17.02	57	27402	0.346 ng		97
50) Methyl Methacrylate	17.36	100	798	0.105 ng	#	1
51) n-Heptane	17.36	71	2386	0.125 ng		91
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.14	58	1175	0.072 ng	#	60
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	19.42	91	51570	0.745 ng		98
59) 2-Hexanone	19.72	43	6953	0.180 ng		85
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.52	43	3507	0.078 ng		92
63) n-Octane	20.70	57	1094	0.070 ng	#	81
64) Tetrachloroethene	20.90	166	1668	0.077 ng		84
65) Chlorobenzene	21.80	112	137	N.D.		
66) Ethylbenzene	22.22	91	9018	0.119 ng		100
67) m- & p-Xylenes	22.44	91	19912	0.330 ng		90
68) Bromoform	22.54	173	117	N.D.		
69) Styrene	22.91	104	4058	0.086 ng		90
70) o-Xylene	23.05	91	7743	0.122 ng		99
71) n-Nonane	23.31	43	3095	0.075 ng	#	73
72) 1,1,2,2-Tetrachloroethane	23.05	83	161	N.D.		
74) Cumene	23.79	105	563	N.D.		
75) alpha-Pinene	24.28	93	3398	0.083 ng		86
76) n-Propylbenzene	24.41	91	2351	N.D.		
77) 3-Ethyltoluene	24.53	105	6481	0.081 ng		99
78) 4-Ethyltoluene	24.58	105	3003	N.D.		
79) 1,3,5-Trimethylbenzene	24.67	105	2343	N.D.		

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061119.D
Acq On : 7 Oct 2011 7:13 am
Operator : EM/CR
Sample : P1103662-008 (1000ml)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 08:46:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

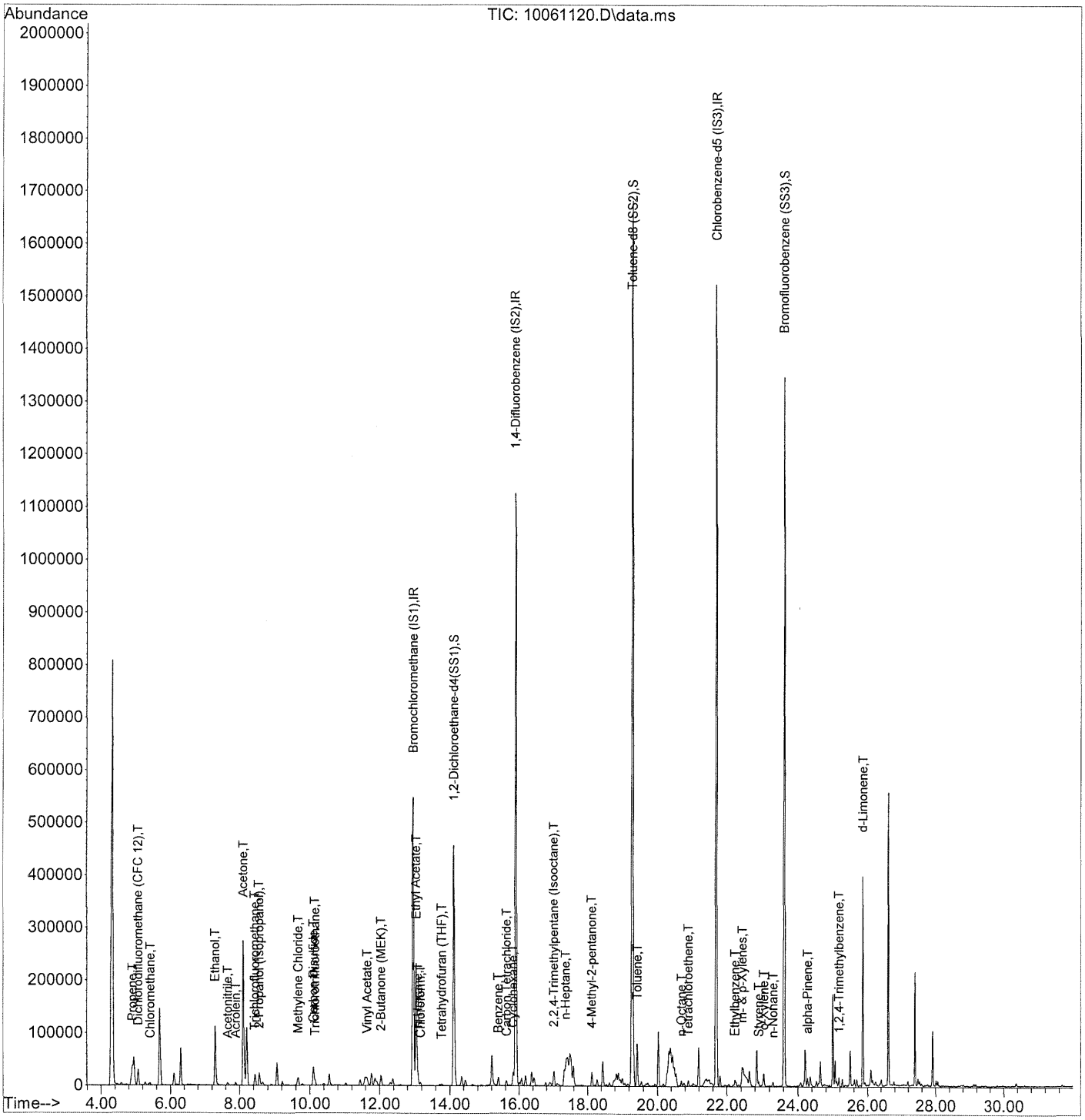
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.85	118	551	N.D.	
81) 2-Ethyltoluene	24.92	105	2282	N.D.	
82) 1,2,4-Trimethylbenzene	25.17	105	7957	0.119 ng	98
83) n-Decane	25.27	57	3478	0.084 ng	88
84) Benzyl Chloride	25.34	91	200	N.D.	
85) 1,3-Dichlorobenzene	25.45	146	1289	N.D.	
86) 1,4-Dichlorobenzene	25.45	146	1289	N.D.	
87) sec-Butylbenzene	25.51	105	390	N.D.	
88) 4-Isopropyltoluene (p-...	25.68	119	2471	N.D.	
89) 1,2,3-Trimethylbenzene	25.69	105	2165	N.D.	
90) 1,2-Dichlorobenzene	25.45	146	1289	N.D.	
91) d-Limonene	25.86	68	2473	0.093 ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	26.77	57	2224	N.D.	
94) 1,2,4-Trichlorobenzene	27.92	180	111	N.D.	
95) Naphthalene	28.07	128	3881	N.D.	
96) n-Dodecane	28.02	57	1441	N.D.	
97) Hexachlorobutadiene	0.00	225	0	N.D.	
98) Cyclohexanone	22.64	55	3122	0.123 ng	96
99) tert-Butylbenzene	25.17	119	956	N.D.	
100) n-Butylbenzene	26.23	91	52	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 10:52:08 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 10:52:08 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	297415	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.90	114	1338324	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	632038	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	434157	24.424	ng		-0.03
Spiked Amount 25.000			Recovery = 97.68%				
57) Toluene-d8 (SS2)	19.29	98	1473529	25.085	ng		-0.02
Spiked Amount 25.000			Recovery = 100.36%				
73) Bromofluorobenzene (SS3)	23.62	174	526703	25.416	ng		-0.01
Spiked Amount 25.000			Recovery = 101.68%				
Target Compounds							Qvalue
2) Propene	4.90	42	14450m	0.607	ng		
3) Dichlorodifluoromethan...	5.07	85	43860	1.490	ng		100
4) Chloromethane	5.42	50	4220	0.171	ng		94
10) Ethanol	7.29	45	160277m	11.642	ng		
11) Acetonitrile	7.66	41	5284	0.165	ng		80
12) Acrolein	7.89	56	6282	0.603	ng		99
13) Acetone	8.11	58	140537m	10.669	ng		
14) Trichlorofluoromethane	8.44	101	22620	0.855	ng		99
15) 2-Propanol (Isopropanol)	8.56	45	41506	1.121	ng		94
19) Methylene Chloride	9.67	84	7761	0.475	ng		83
21) Trichlorotrifluoroethane	10.15	151	5114	0.371	ng		87
22) Carbon Disulfide	10.10	76	69073	1.219	ng		99
26) Vinyl Acetate	11.65	86	3774m	0.815	ng		
27) 2-Butanone (MEK)	12.04	72	7772	0.684	ng	#	41
30) Ethyl Acetate	13.05	61	51541	8.372	ng		81
31) n-Hexane	13.10	57	10955	0.345	ng	#	93
32) Chloroform	13.17	83	5717	0.238	ng		94
34) Tetrahydrofuran (THF)	13.77	72	955	0.090	ng	#	33
41) Benzene	15.39	78	19686	0.313	ng		99
42) Carbon Tetrachloride	15.63	117	7688	0.394	ng		96
43) Cyclohexane	15.82	84	14605	0.535	ng		92
49) 2,2,4-Trimethylpentane...	17.02	57	30710	0.396	ng		99
51) n-Heptane	17.36	71	4069	0.218	ng	#	79
53) 4-Methyl-2-pentanone	18.13	58	9377	0.586	ng	#	88
58) Toluene	19.42	91	73315	1.079	ng		98
63) n-Octane	20.70	57	1883	0.122	ng	#	76
64) Tetrachloroethene	20.89	166	4295	0.202	ng		100
66) Ethylbenzene	22.23	91	10572	0.142	ng		100
67) m- & p-Xylenes	22.44	91	21968	0.371	ng		92
69) Styrene	22.91	104	6131	0.132	ng		92

EM 10/7/11

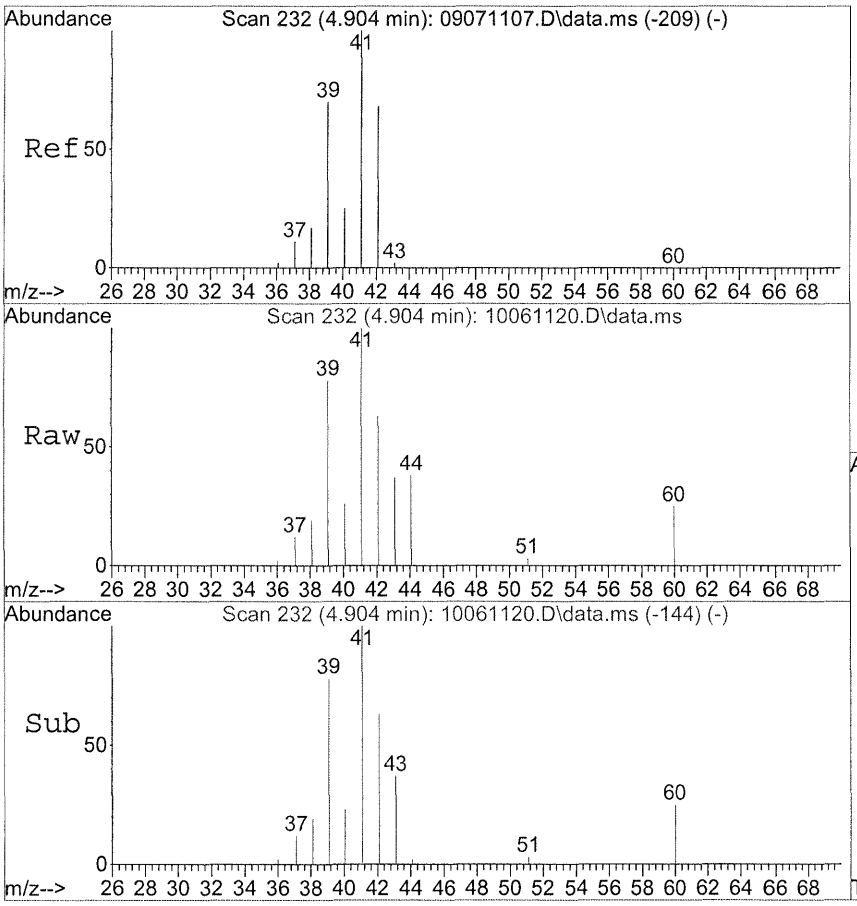
Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 10:52:08 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) o-Xylene	23.05	91	8531	0.137	ng		96
71) n-Nonane	23.31	43	3884	0.096	ng	#	75
75) alpha-Pinene	24.28	93	7468	0.186	ng		95
82) 1,2,4-Trimethylbenzene	25.17	105	9346	0.142	ng		99
91) d-Limonene	25.86	68	105487	4.047	ng		97

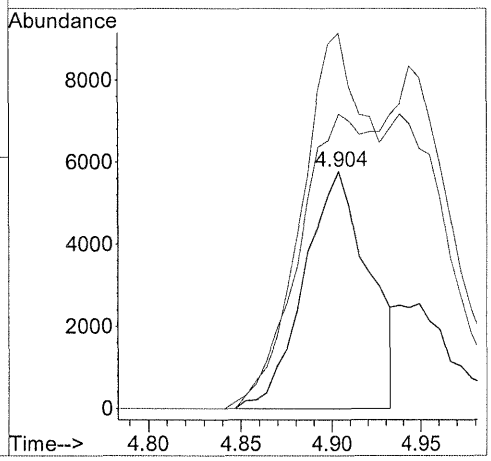
(#) = qualifier out of range (m) = manual integration (+) = signals summed

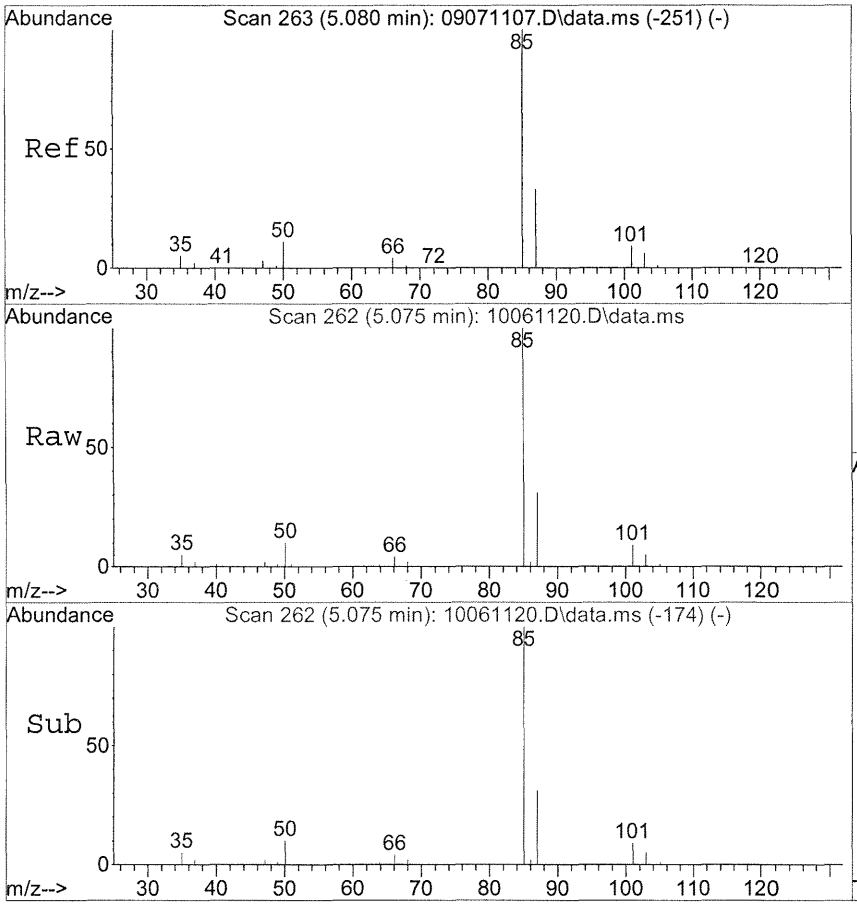


#2
Propene
Concen: 0.61 ng m
RT: 4.90 min Scan# 232
Delta R.T. -0.000 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 42 Resp: 14450

Ion	Ratio	Lower	Upper
42	100		
39	0.0	88.8	128.8#
41	286.8	126.1	166.1#

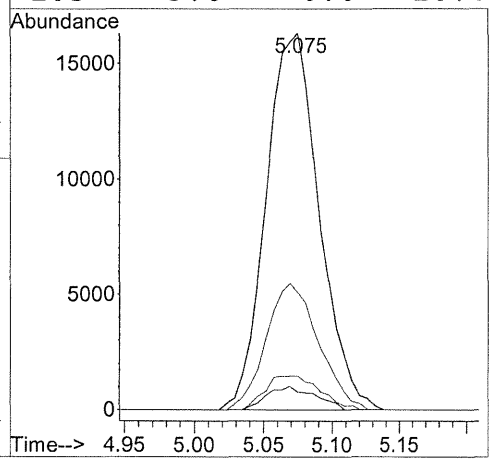


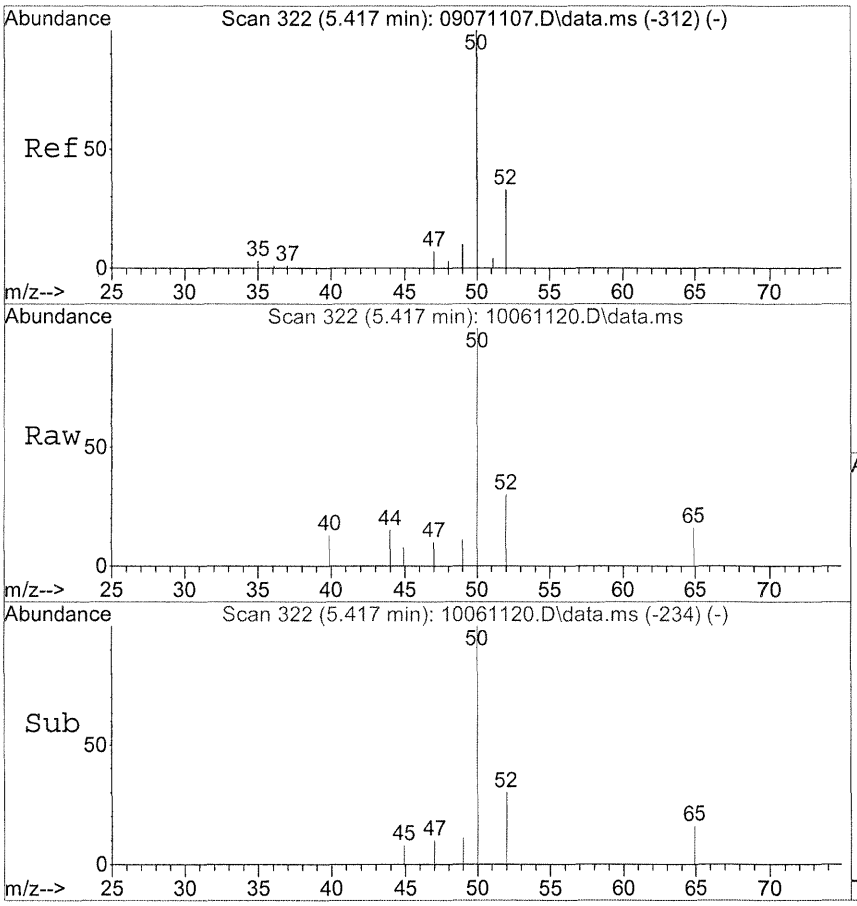


#3
Dichlorodifluoromethane (CFC
Concen: 1.49 ng
RT: 5.07 min Scan# 262
Delta R.T. -0.000 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 85 Resp: 43860

Ion	Ratio	Lower	Upper
85	100		
87	33.0	13.0	53.0
101	9.2	0.0	29.1
103	5.6	0.0	26.0

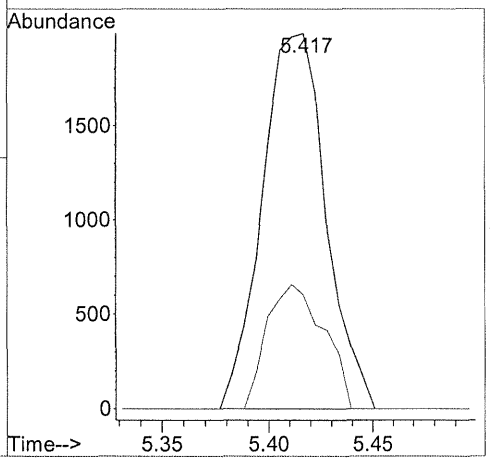


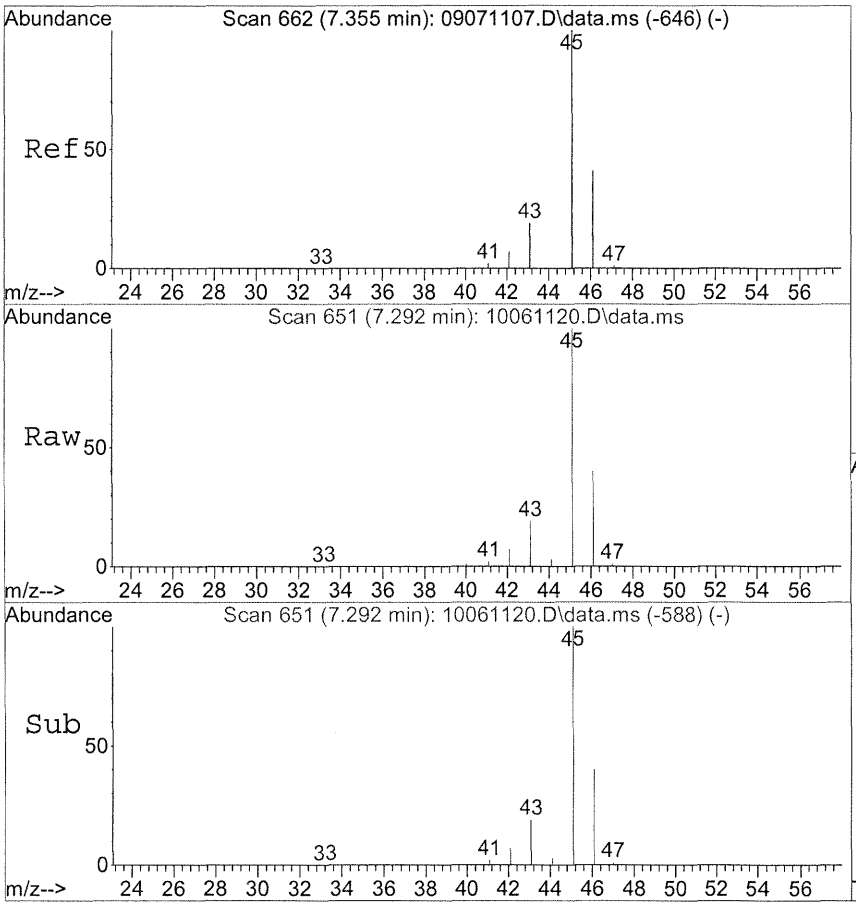


#4
Chloromethane
Concen: 0.17 ng
RT: 5.42 min Scan# 322
Delta R.T. -0.000 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 50 Resp: 4220

Ion	Ratio	Lower	Upper
50	100		
52	29.7	13.1	53.1

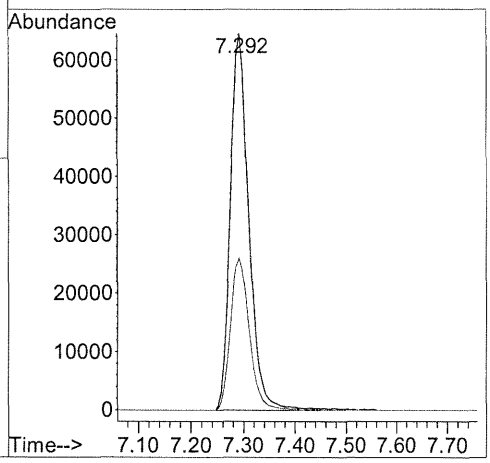


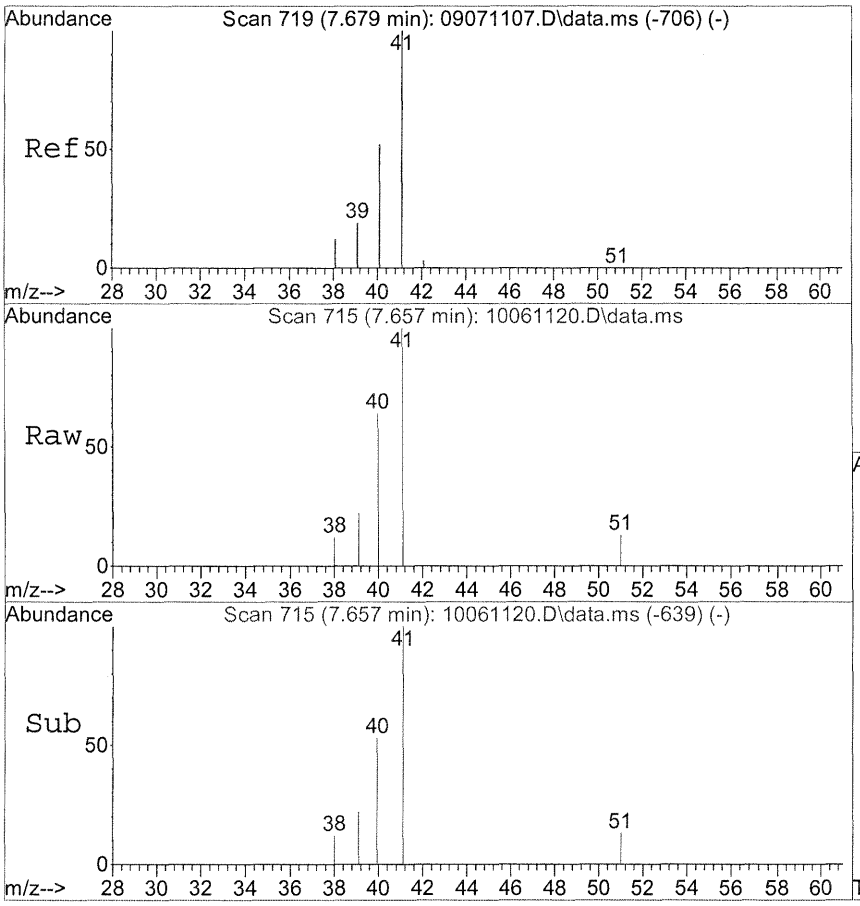


#10
Ethanol
Concen: 11.64 ng m
RT: 7.29 min Scan# 651
Delta R.T. -0.143 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 45 Resp: 160277

Ion	Ratio	Lower	Upper
45	100		
46	0.0	20.7	60.7#

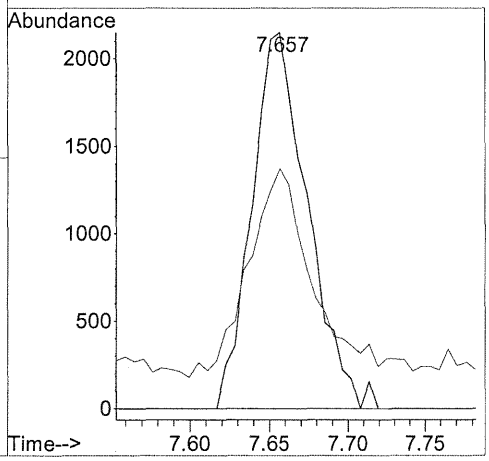


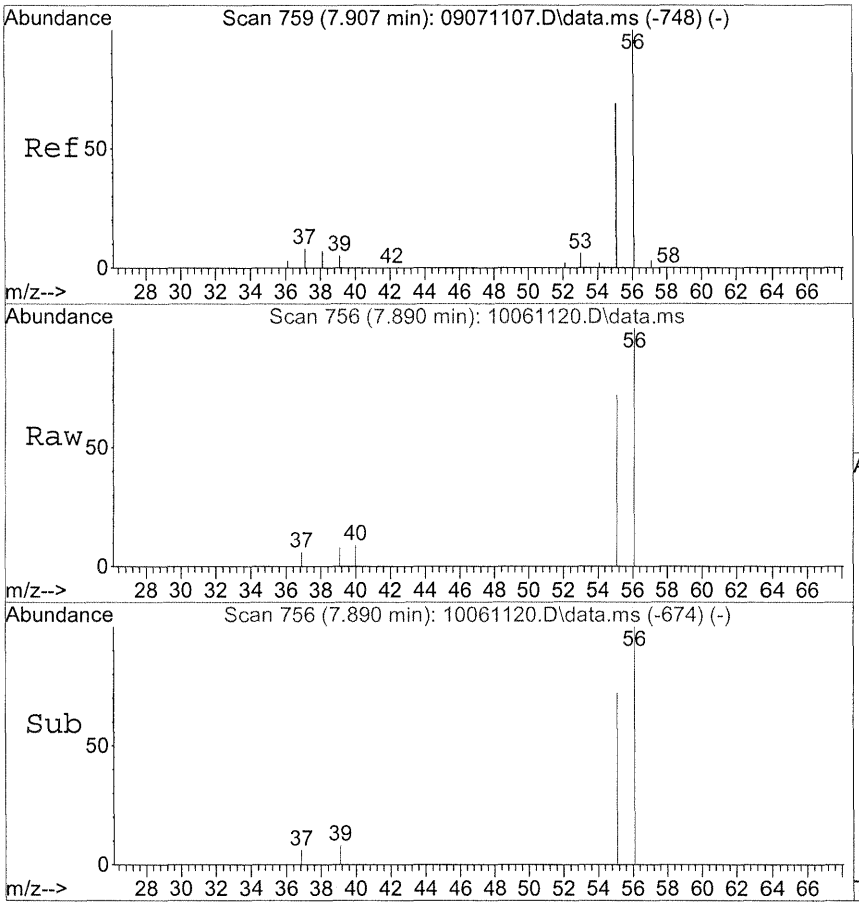


#11
Acetonitrile
Concen: 0.17 ng
RT: 7.66 min Scan# 715
Delta R.T. -0.069 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 41 Resp: 5284

Ion	Ratio	Lower	Upper
41	100		
40	65.6	31.5	71.5

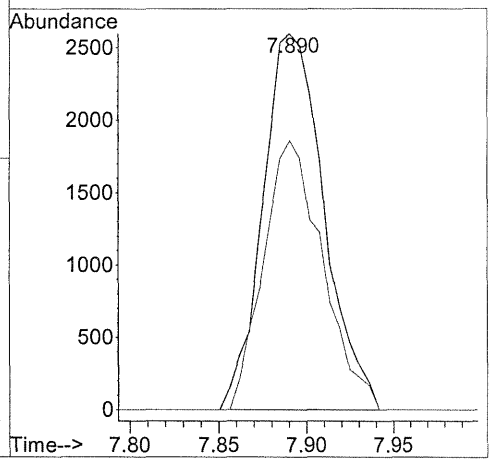


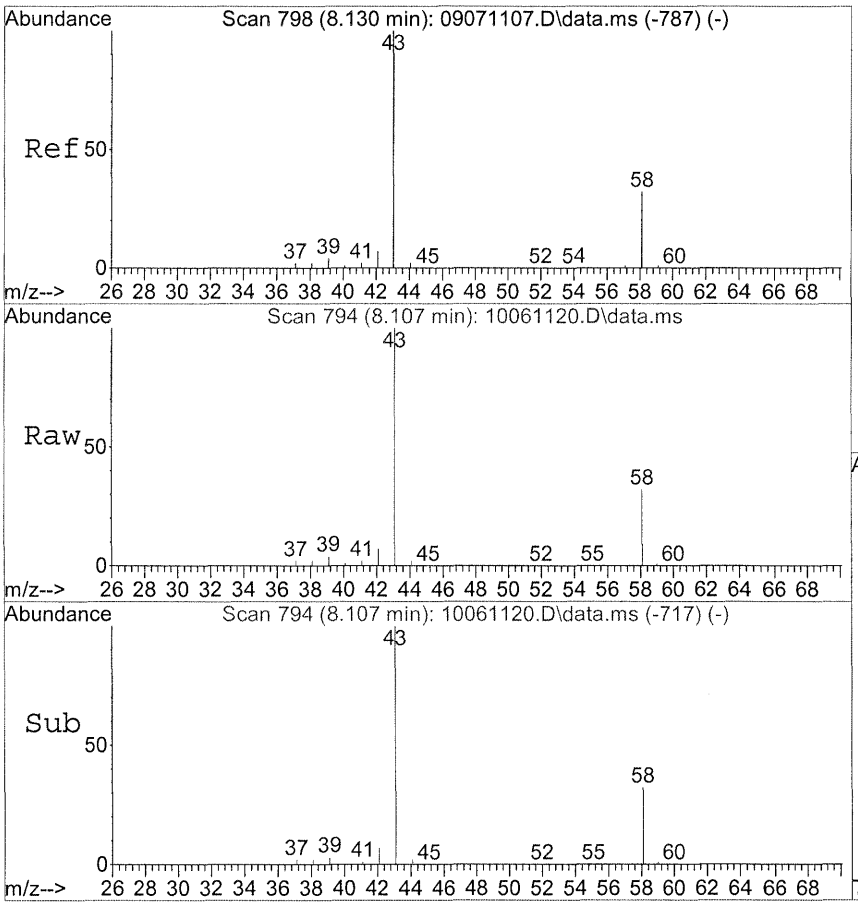


#12
Acrolein
Concen: 0.60 ng
RT: 7.89 min Scan# 756
Delta R.T. -0.034 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 56 Resp: 6282

Ion	Ratio	Lower	Upper
56	100		
55	69.3	50.1	90.1

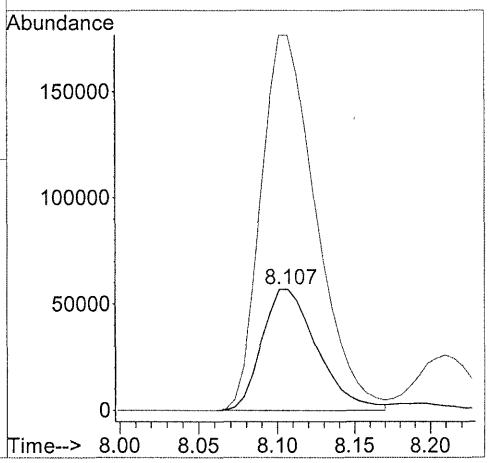


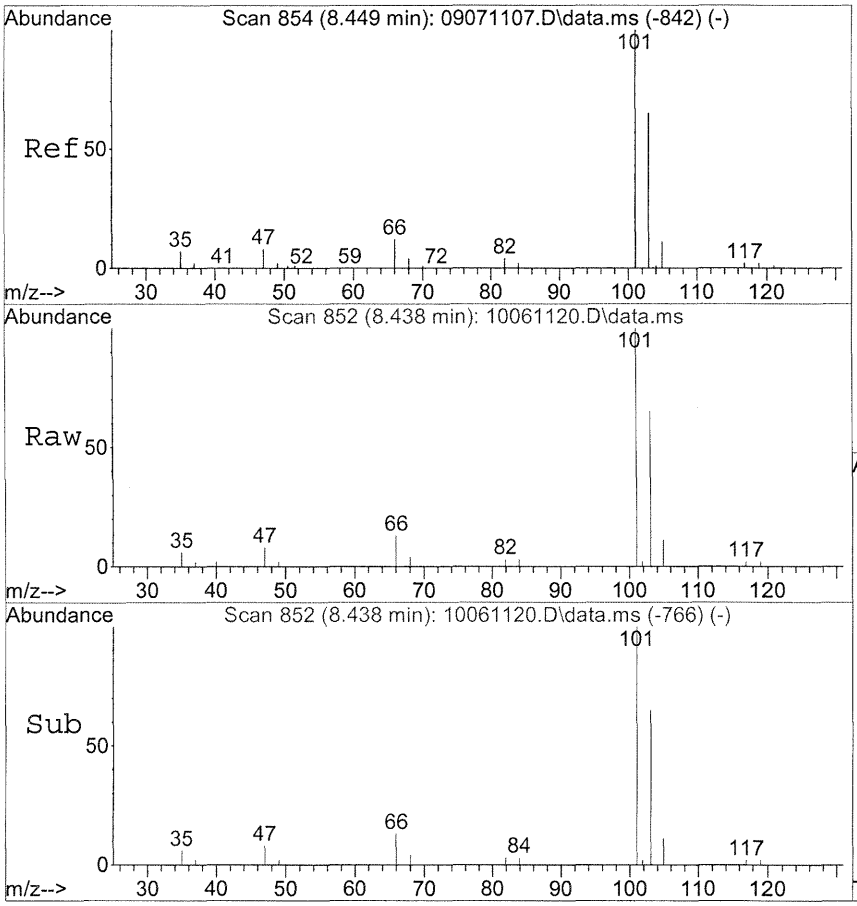


#13
Acetone
Concen: 10.67 ng m
RT: 8.11 min Scan# 794
Delta R.T. -0.063 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 58 Resp: 140537

Ion	Ratio	Lower	Upper
58	100		
43	310.4	283.8	343.8

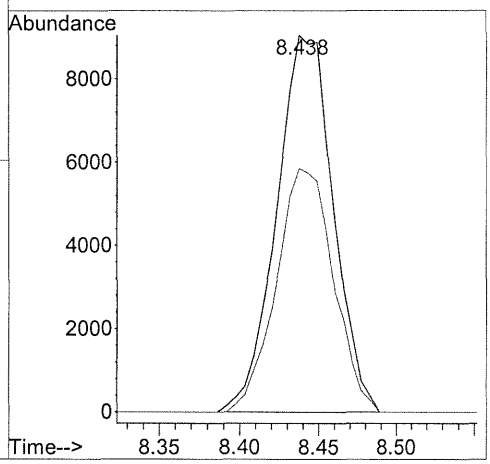


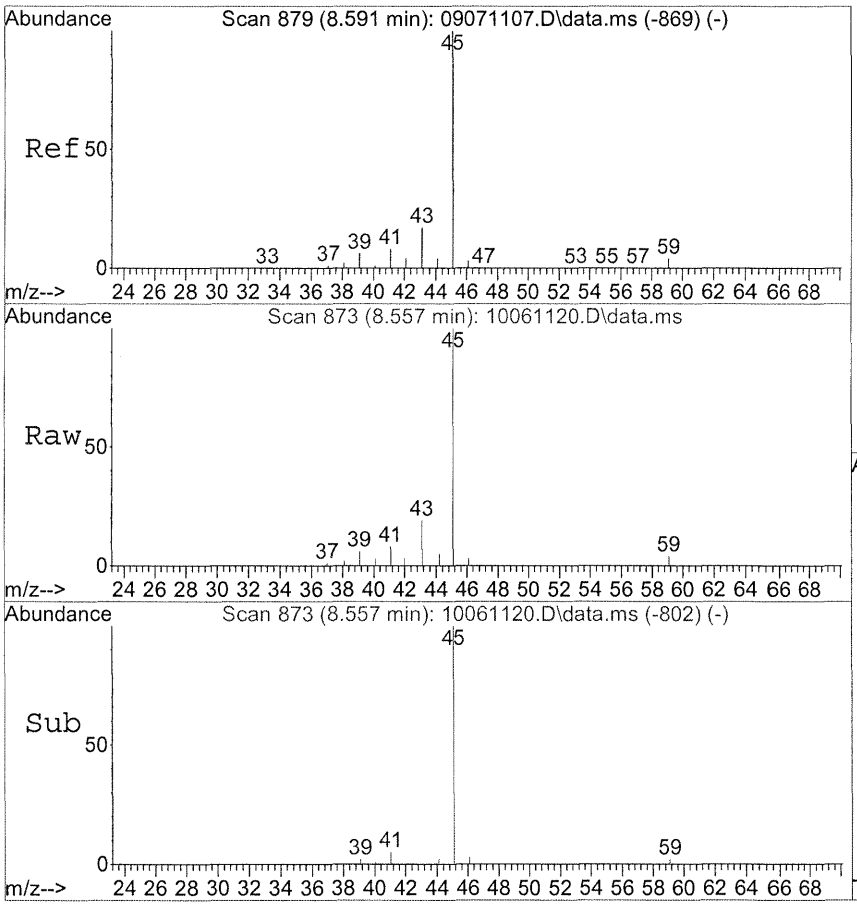


#14
Trichlorofluoromethane
Concen: 0.85 ng
RT: 8.44 min Scan# 852
Delta R.T. -0.012 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion:101 Resp: 22620

Ion	Ratio	Lower	Upper
101	100		
103	65.3	44.4	84.4

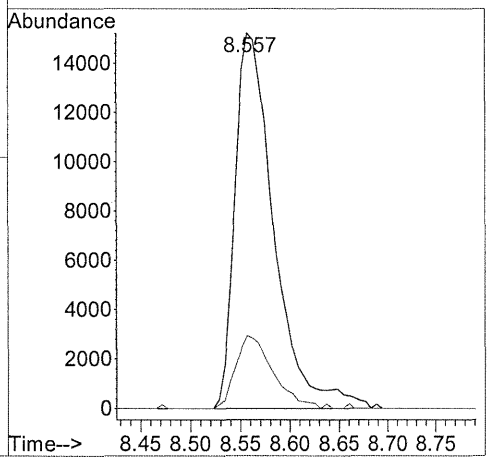


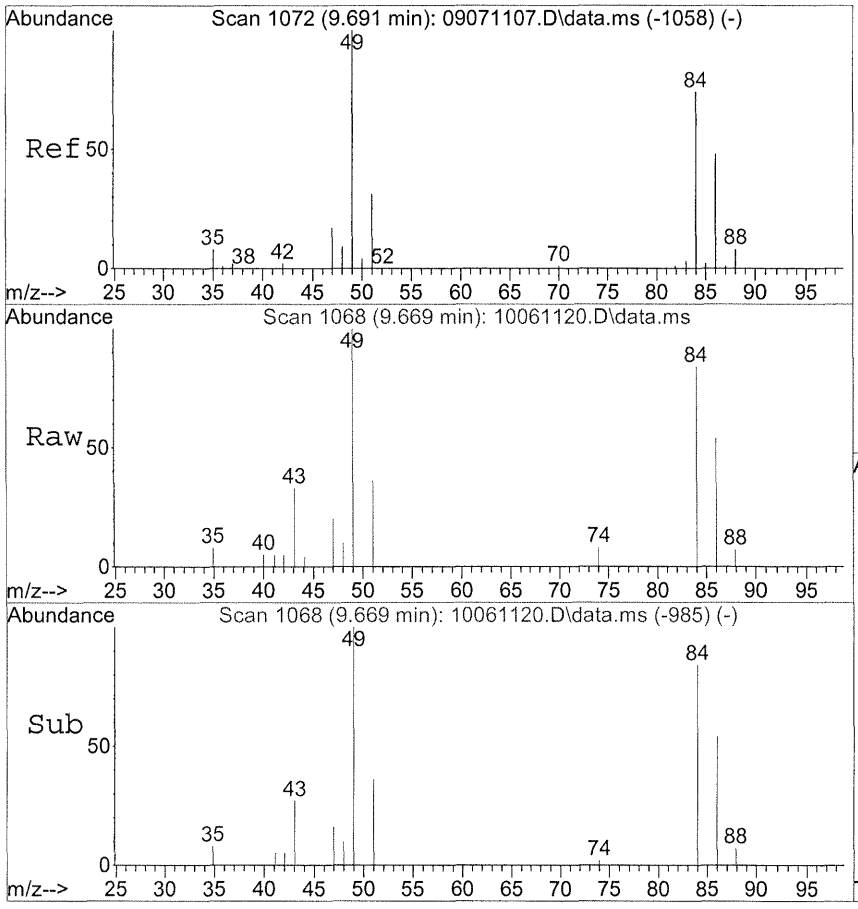


#15
2-Propanol (Isopropanol)
Concen: 1.12 ng
RT: 8.56 min Scan# 873
Delta R.T. -0.097 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 45 Resp: 41506

Ion	Ratio	Lower	Upper
45	100		
43	18.6	1.4	41.4

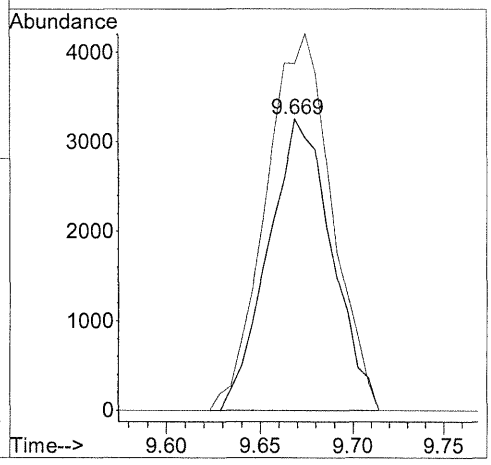


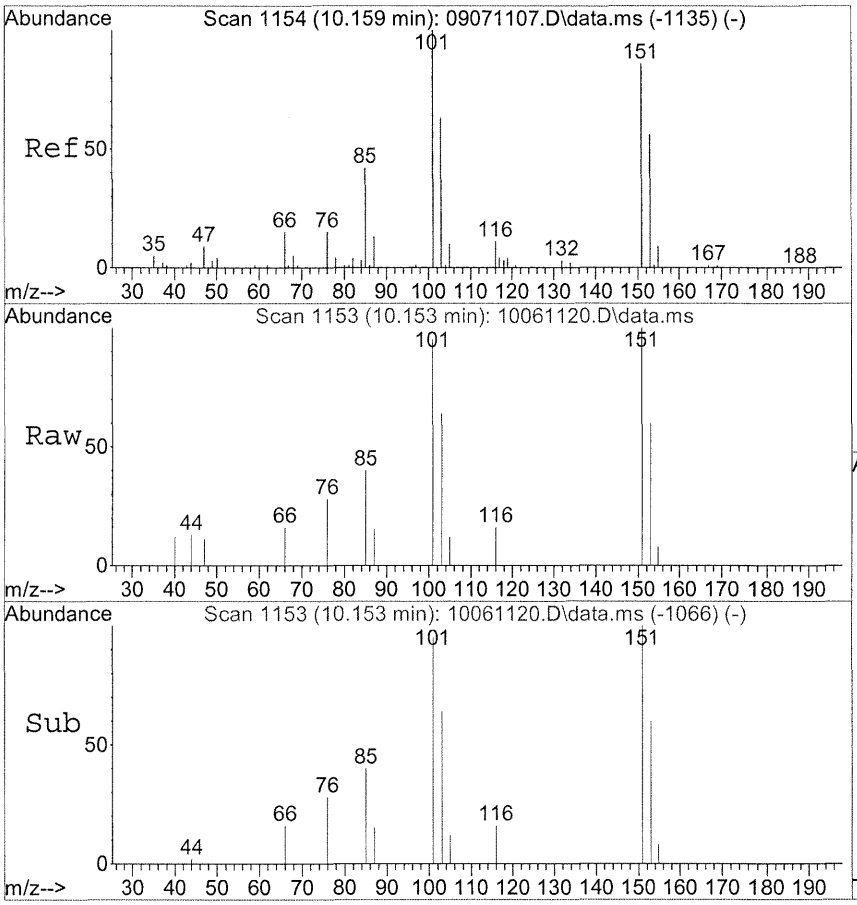


#19
Methylene Chloride
Concen: 0.47 ng
RT: 9.67 min Scan# 1068
Delta R.T. -0.028 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 84 Resp: 7761

Ion	Ratio	Lower	Upper
84	100		
49	134.2	90.4	140.4

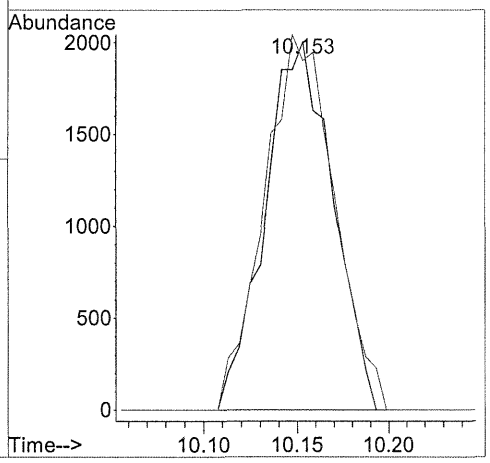


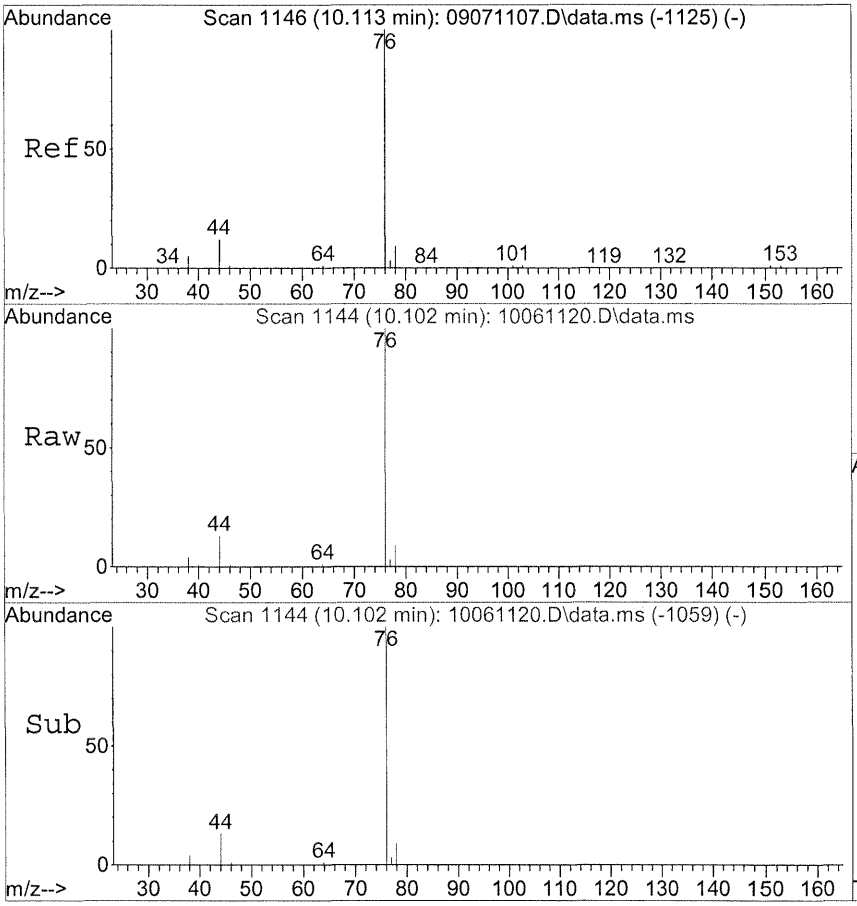


#21
Trichlorotrifluoroethane
Concen: 0.37 ng
RT: 10.15 min Scan# 1153
Delta R.T. -0.006 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion:151 Resp: 5114

Ion	Ratio	Lower	Upper
151	100		
101	105.7	99.7	139.7

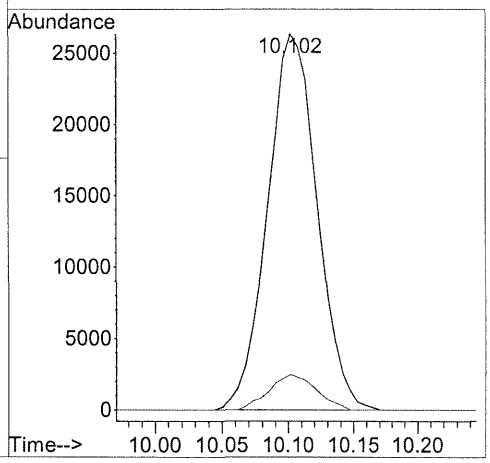


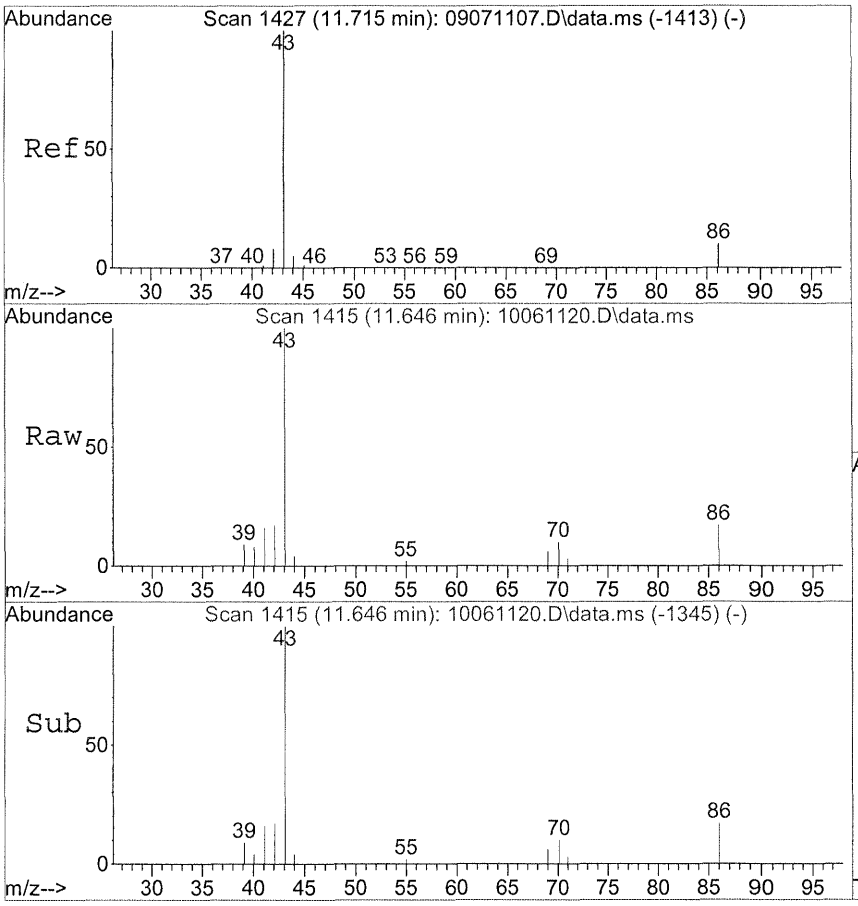


#22
Carbon Disulfide
Concen: 1.22 ng
RT: 10.10 min Scan# 1144
Delta R.T. -0.017 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 76 Resp: 69073

Ion	Ratio	Lower	Upper
76	100		
78	8.9	0.0	29.4

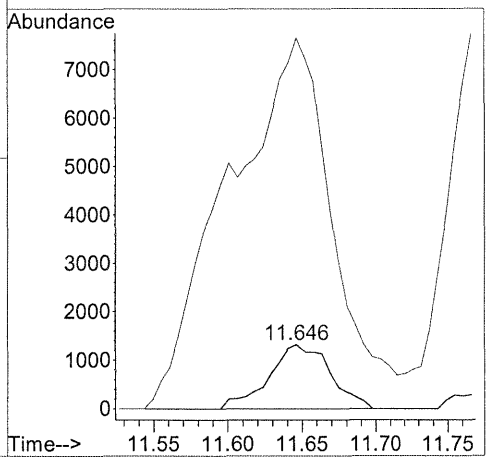


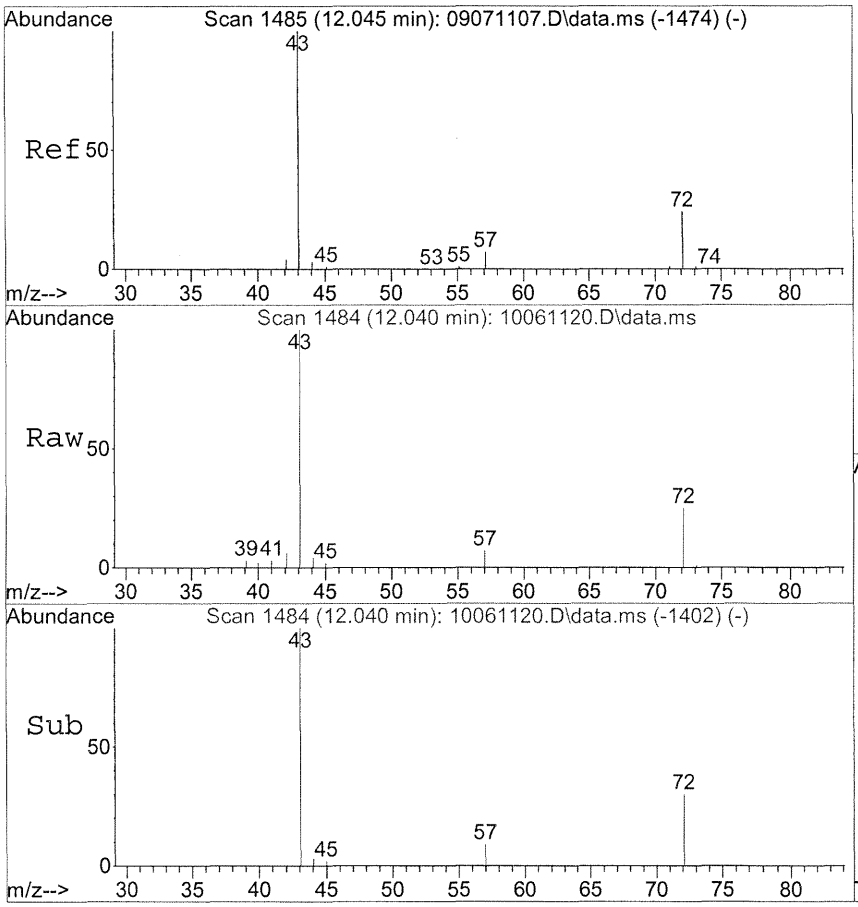


#26
Vinyl Acetate
Concen: 0.81 ng m
RT: 11.65 min Scan# 1415
Delta R.T. -0.103 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 86 Resp: 3774

Ion	Ratio	Lower	Upper
86	100		
43	551.6	825.7	865.7#

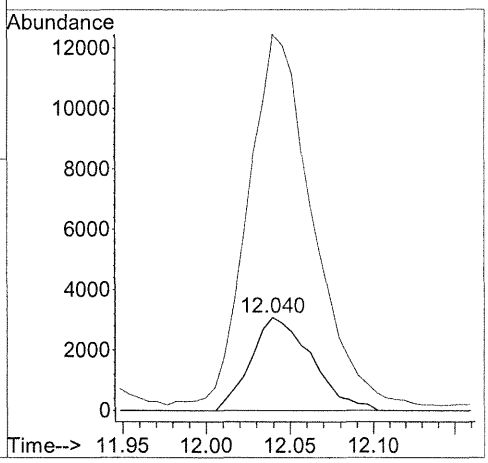


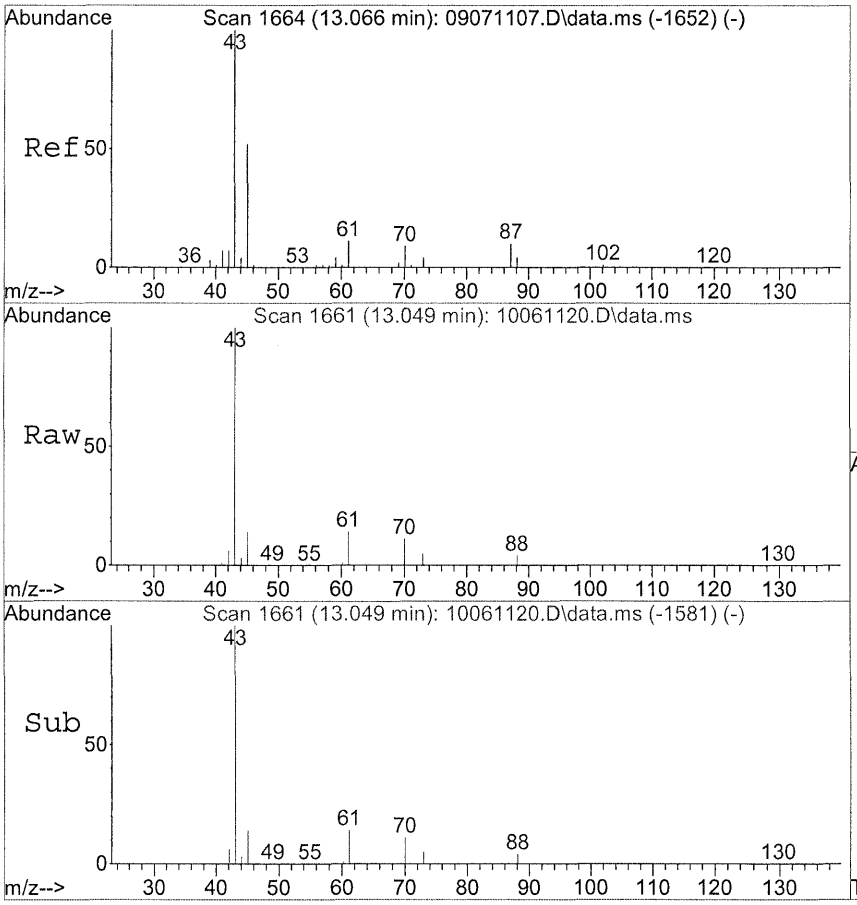


#27
2-Butanone (MEK)
Concen: 0.68 ng
RT: 12.04 min Scan# 1484
Delta R.T. -0.034 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 72 Resp: 7772

Ion	Ratio	Lower	Upper
72	100		
43	446.1	304.7	344.7#

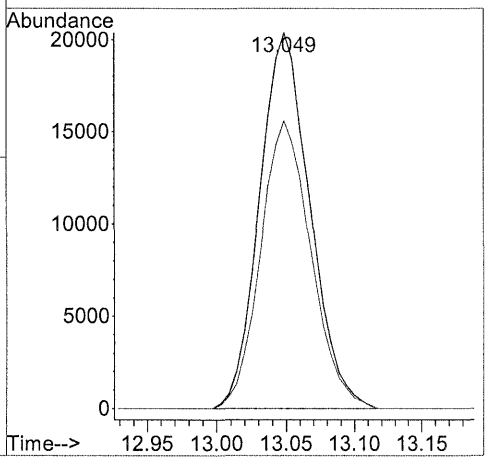


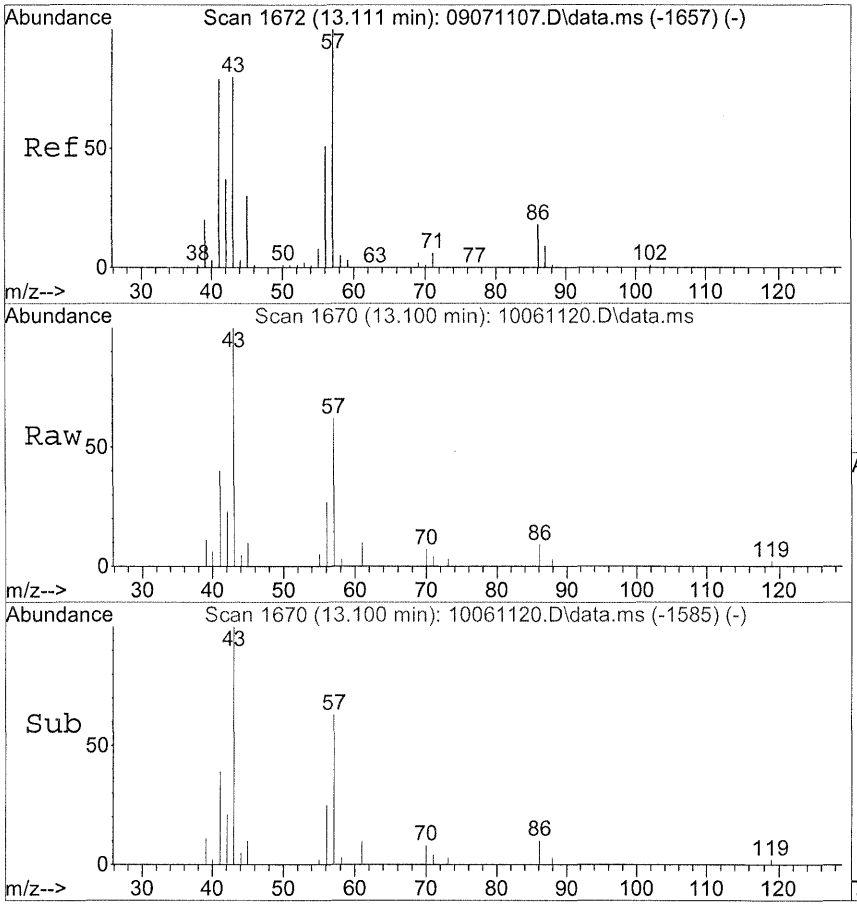


#30
Ethyl Acetate
Concen: 8.37 ng
RT: 13.05 min Scan# 1661
Delta R.T. -0.046 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 61 Resp: 51541

Ion	Ratio	Lower	Upper
61	100		
70	76.7	75.3	115.3

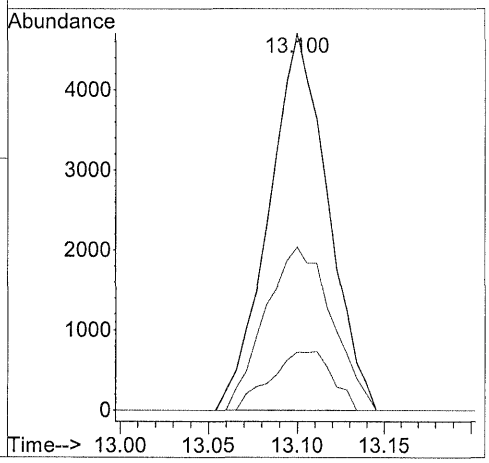


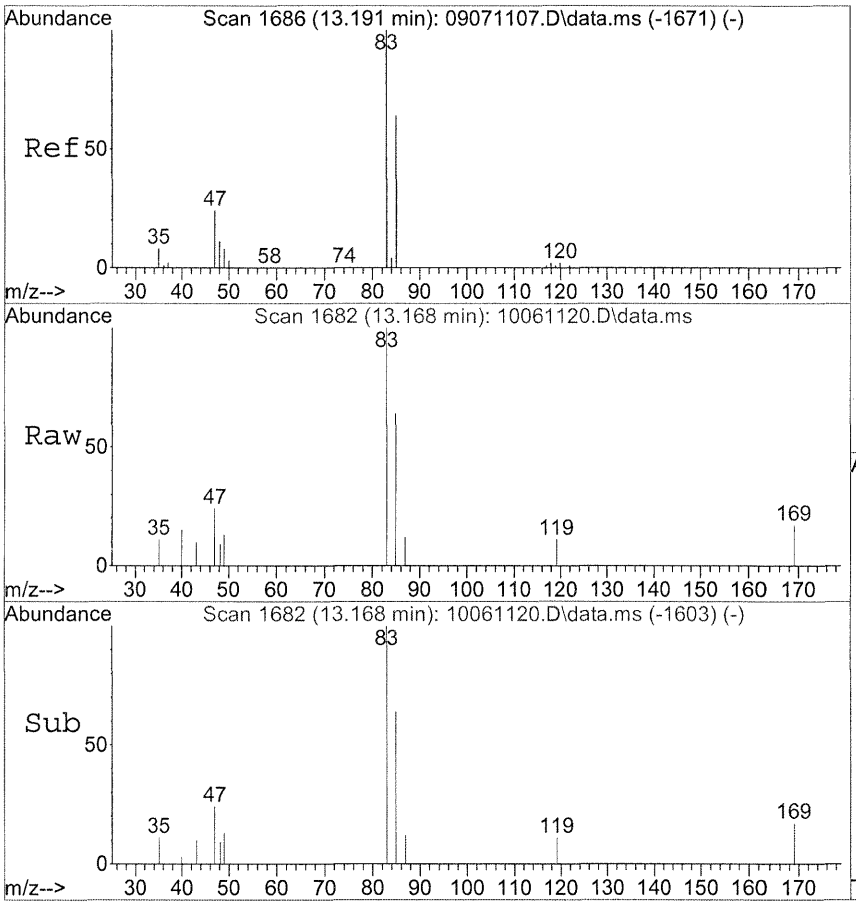


#31
n-Hexane
Concen: 0.35 ng
RT: 13.10 min Scan# 1670
Delta R.T. -0.017 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 57 Resp: 10955

Ion	Ratio	Lower	Upper
57	100		
56	48.9	41.8	62.8
86	16.1	17.0	25.4#

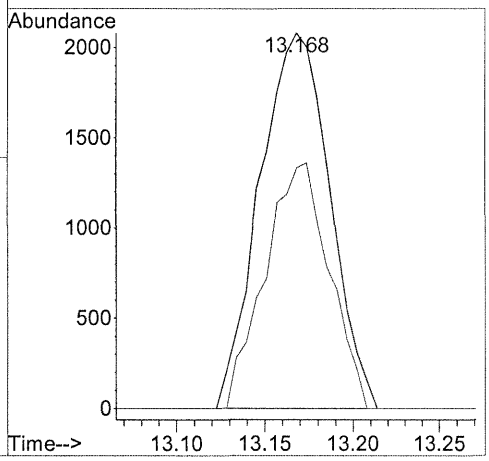


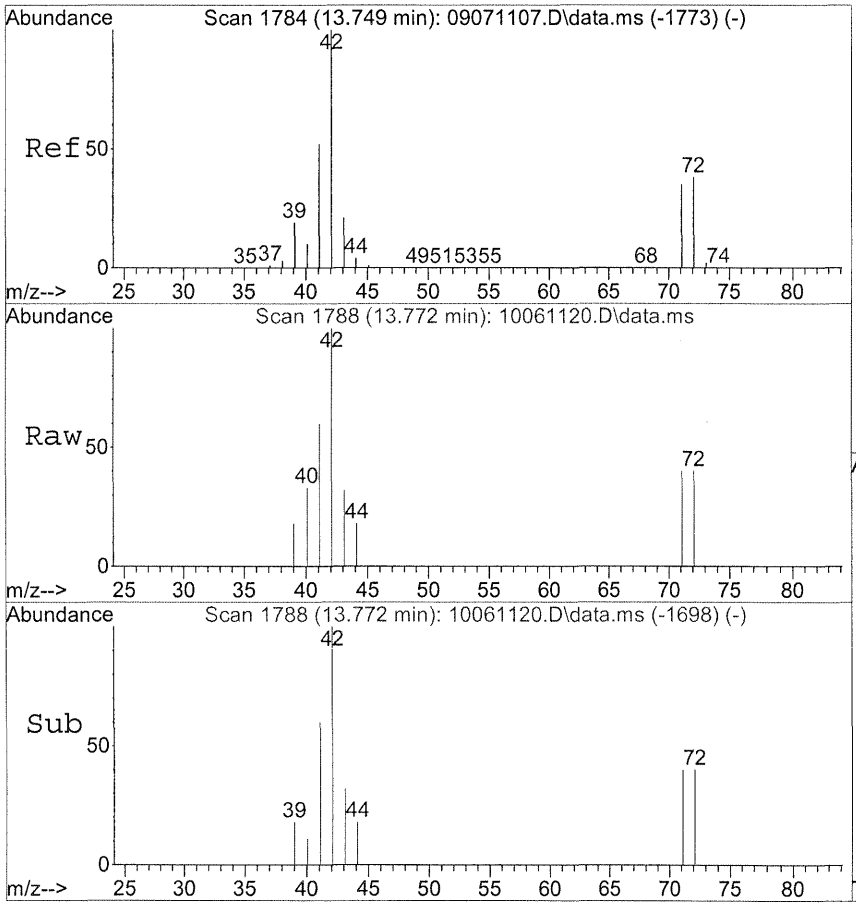


#32
Chloroform
Concen: 0.24 ng
RT: 13.17 min Scan# 1682
Delta R.T. -0.051 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 83 Resp: 5717

Ion	Ratio	Lower	Upper
83	100		
85	60.3	45.3	85.3

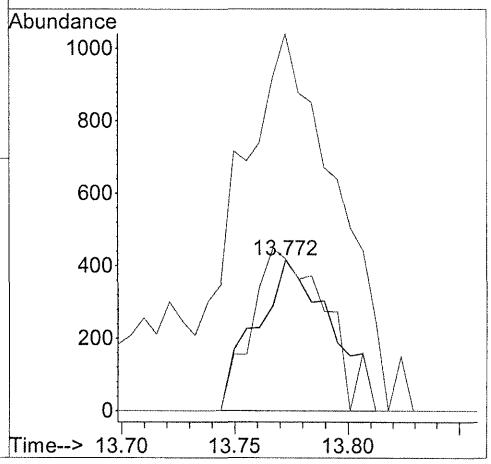


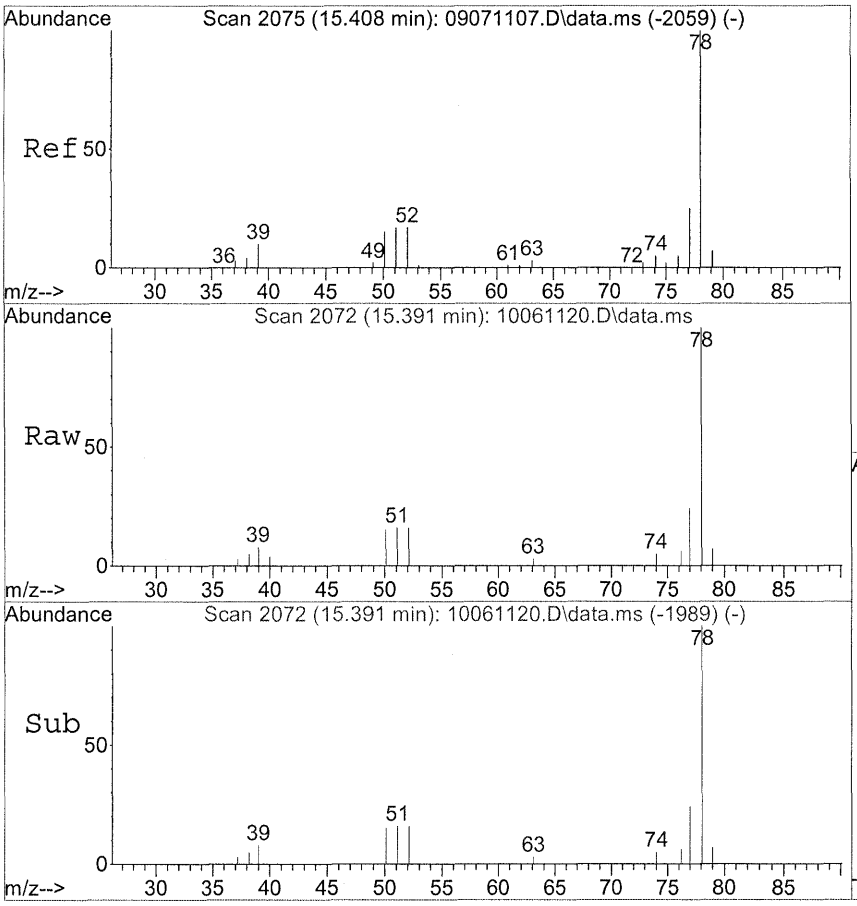


#34
Tetrahydrofuran (THF)
Concen: 0.09 ng
RT: 13.77 min Scan# 1788
Delta R.T. 0.011 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 72 Resp: 955

Ion	Ratio	Lower	Upper
72	100		
71	106.0	75.1	115.1
42	326.8	168.1	208.1#

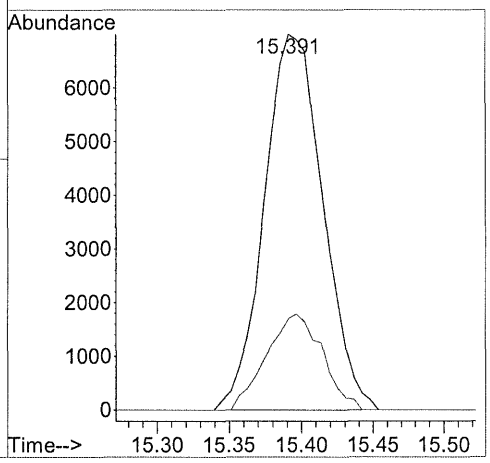


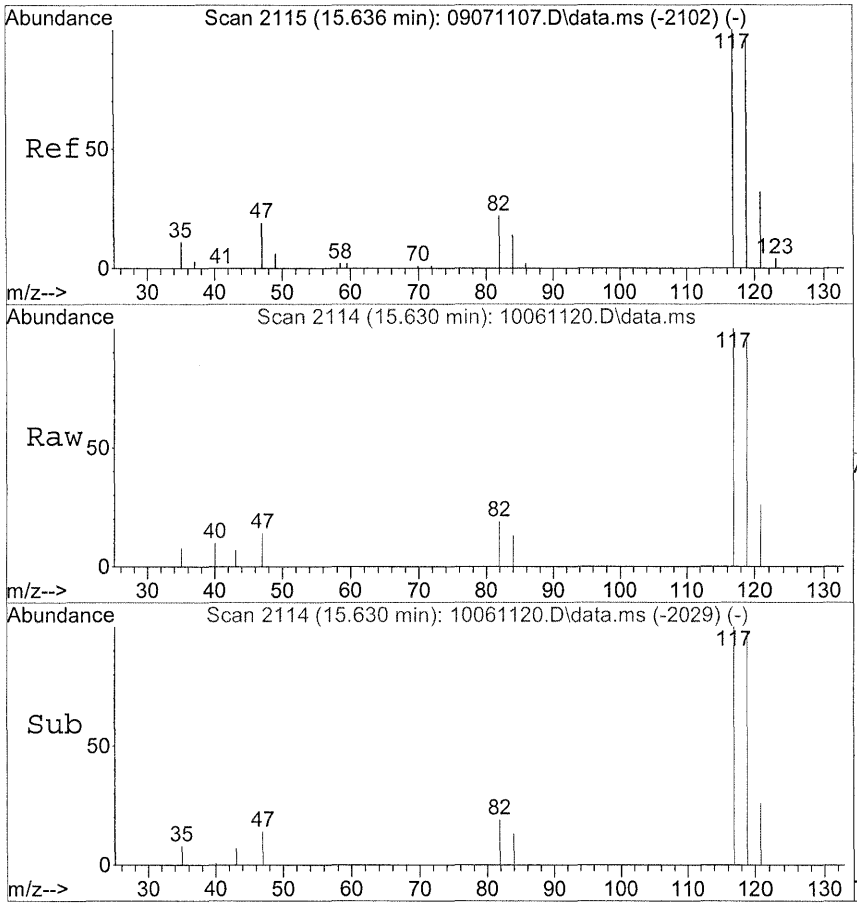


#41
Benzene
Concen: 0.31 ng
RT: 15.39 min Scan# 2072
Delta R.T. -0.029 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 78 Resp: 19686

Ion	Ratio	Lower	Upper
78	100		
77	24.3	4.0	44.0

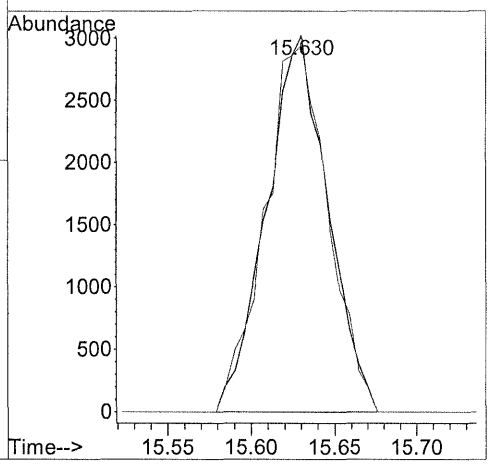


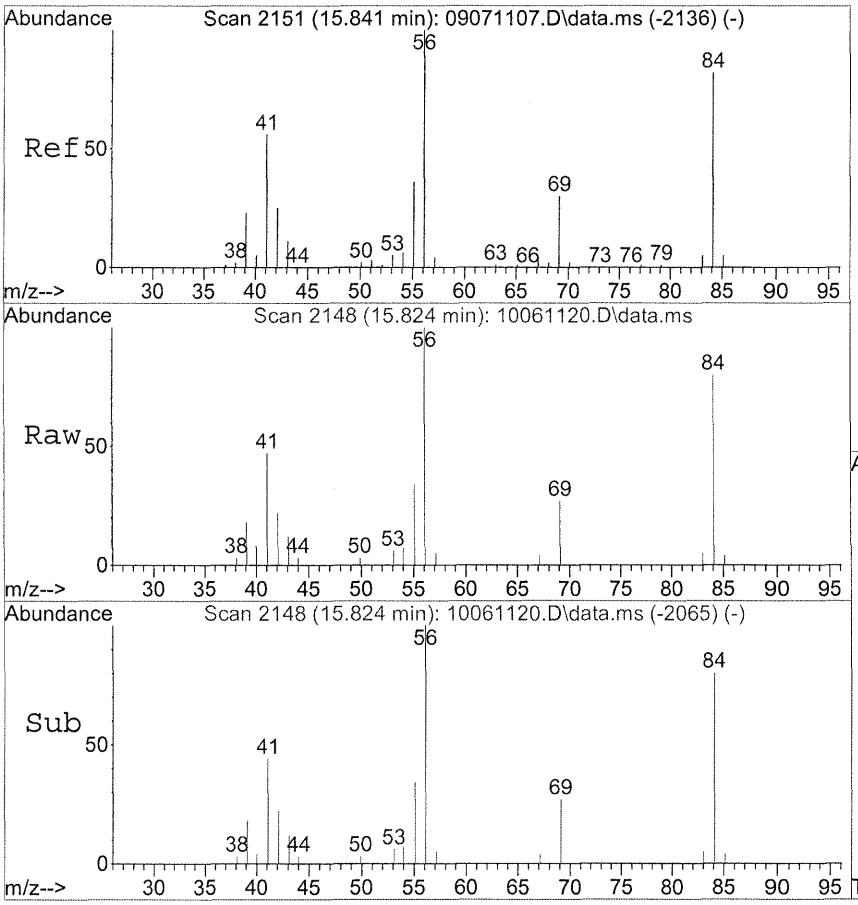


#42
Carbon Tetrachloride
Concen: 0.39 ng
RT: 15.63 min Scan# 2114
Delta R.T. -0.017 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion:117 Resp: 7688

Ion	Ratio	Lower	Upper
117	100		
119	100.6	77.0	117.0

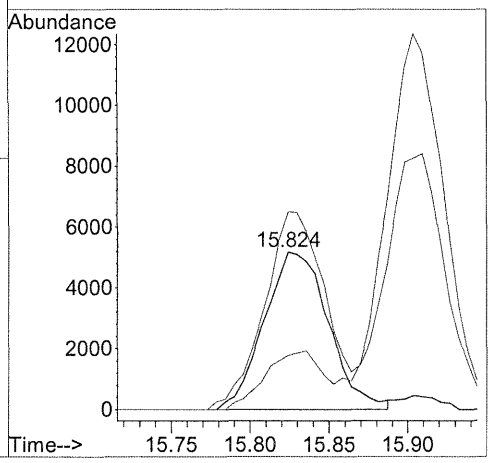


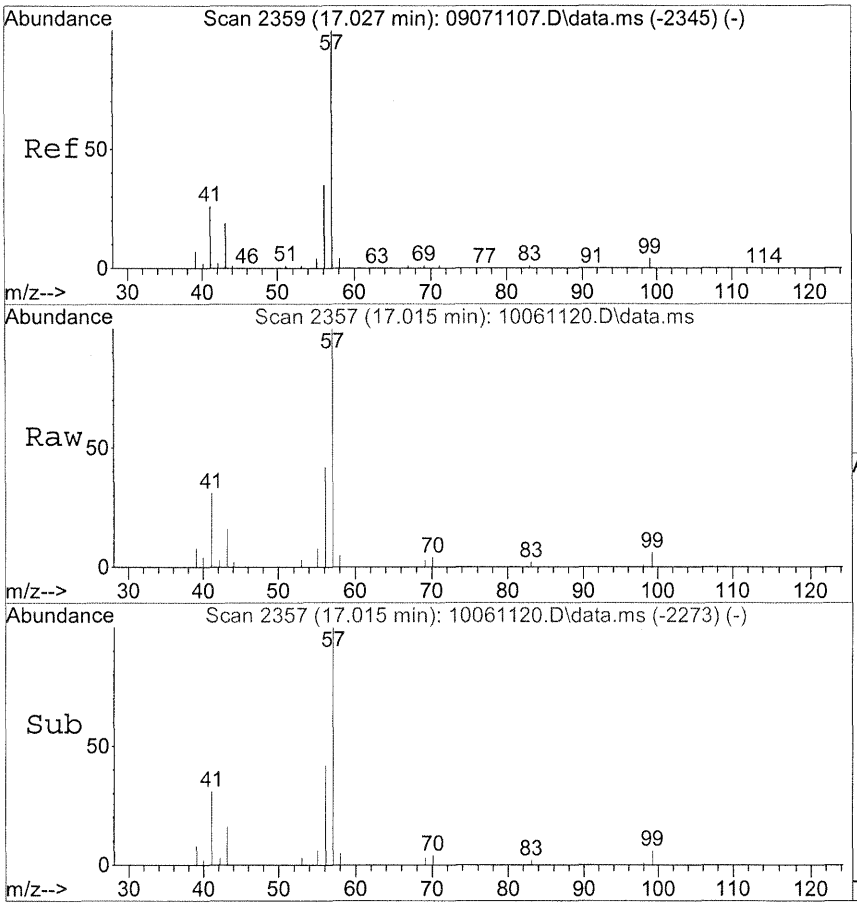


#43
Cyclohexane
Concen: 0.53 ng
RT: 15.82 min Scan# 2148
Delta R.T. -0.029 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 84 Resp: 14605

Ion	Ratio	Lower	Upper
84	100		
69	37.7	16.9	56.9
56	119.1	87.7	127.7

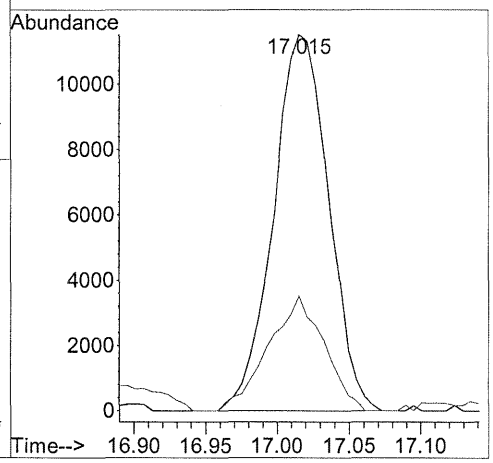


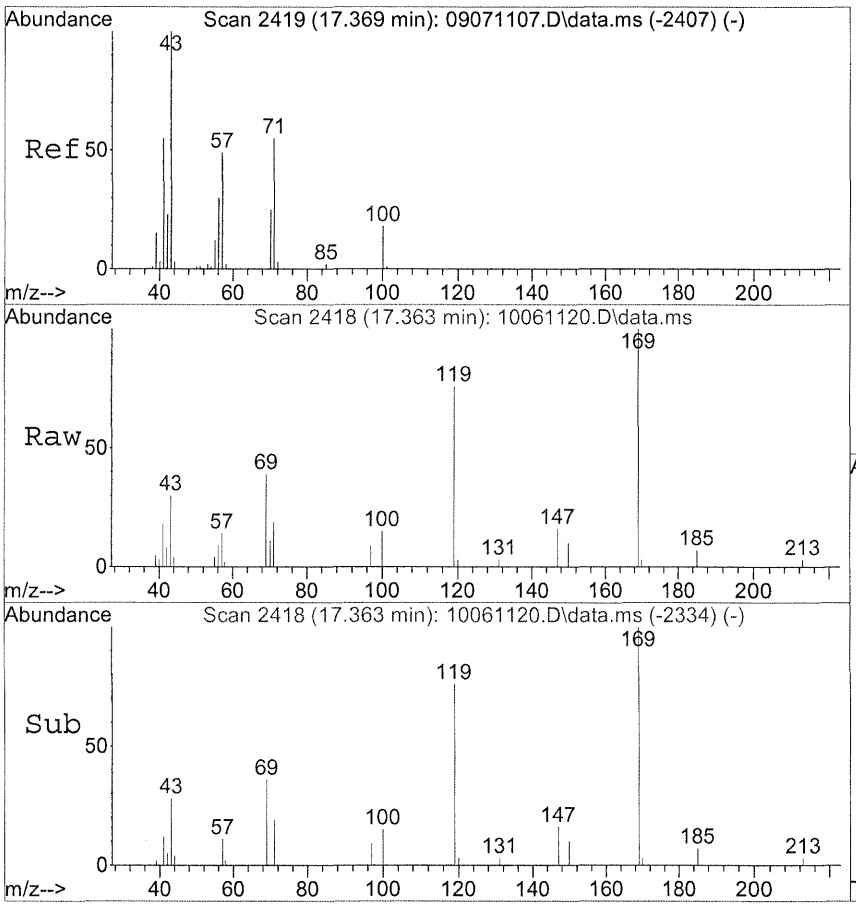


#49
2,2,4-Trimethylpentane (Isooc
Concen: 0.40 ng
RT: 17.02 min Scan# 2357
Delta R.T. -0.023 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 57 Resp: 30710

Ion	Ratio	Lower	Upper
57	100		
41	30.9	10.2	50.2

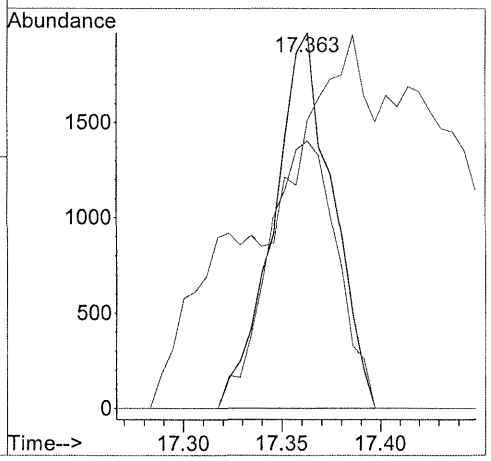


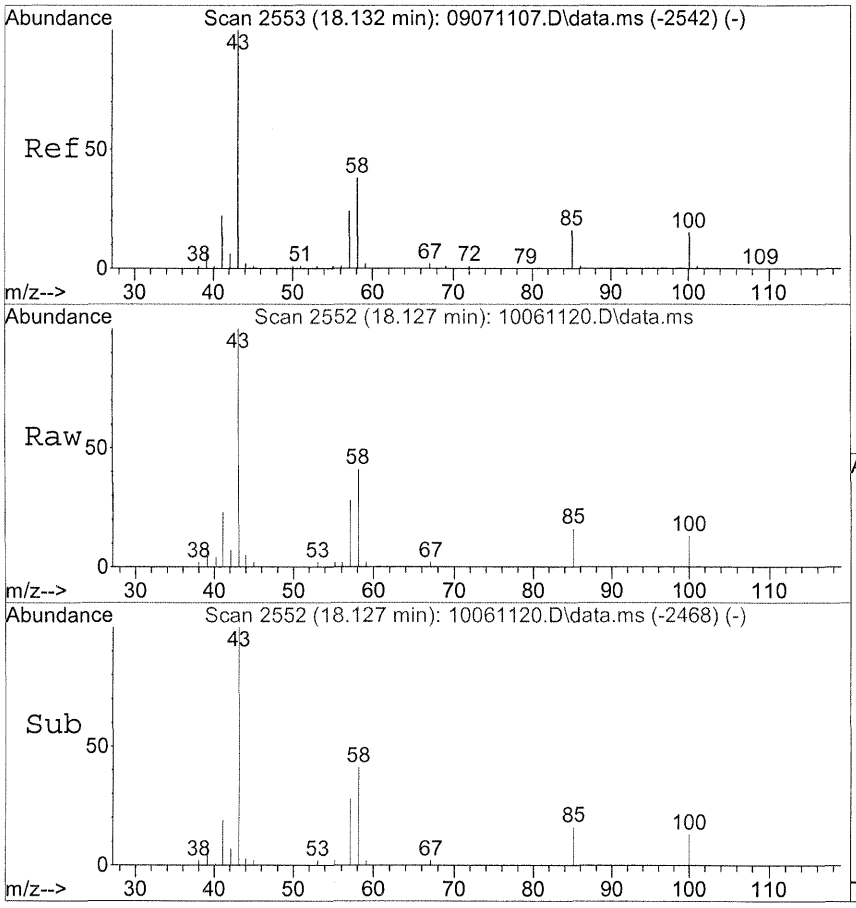


#51
n-Heptane
Concen: 0.22 ng
RT: 17.36 min Scan# 2418
Delta R.T. -0.023 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 71 Resp: 4069

Ion	Ratio	Lower	Upper
71	100		
57	83.4	59.7	99.7
100	0.0	15.2	55.2#

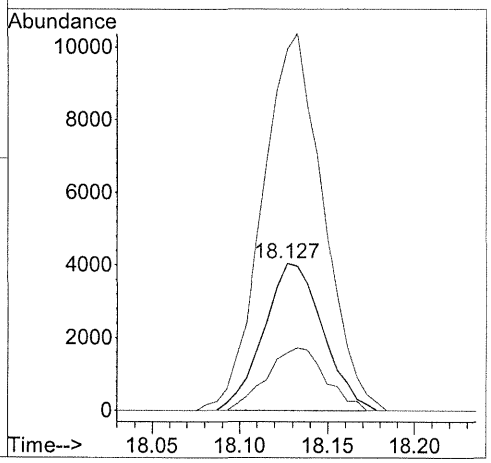


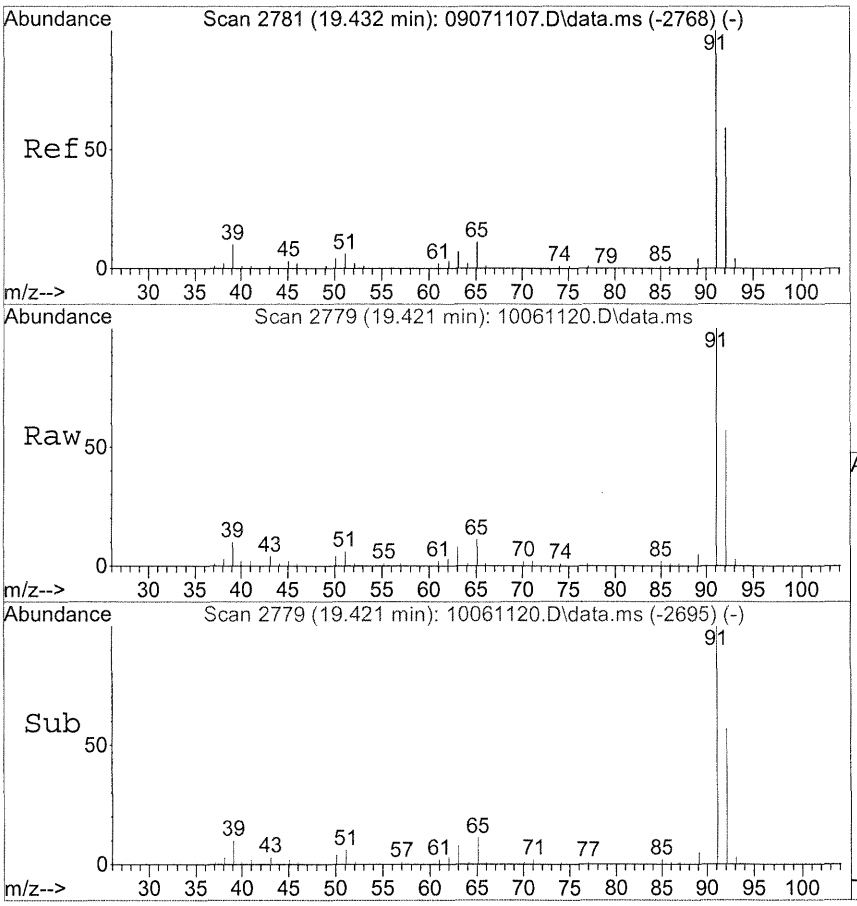


#53
4-Methyl-2-pentanone
Concen: 0.59 ng
RT: 18.13 min Scan# 2552
Delta R.T. -0.023 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 58 Resp: 9377

Ion	Ratio	Lower	Upper
58	100		
43	264.1	195.7	293.5
85	42.2	43.7	65.5#

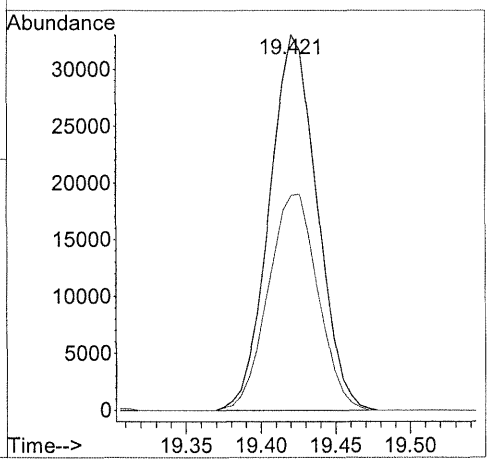


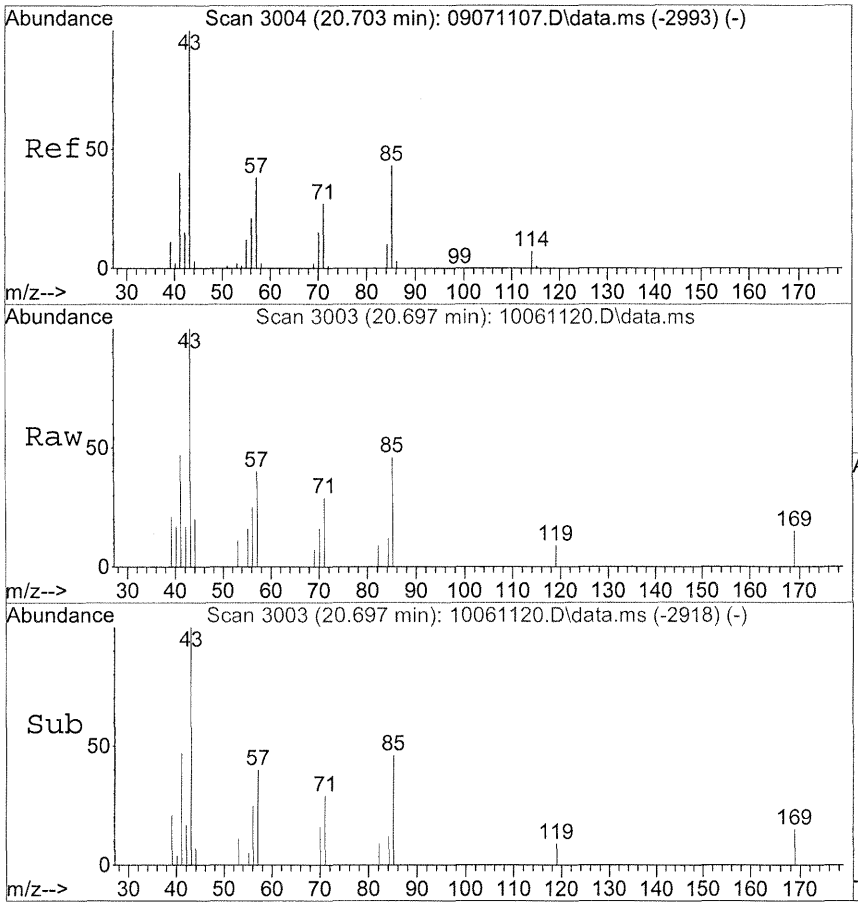


#58
Toluene
Concen: 1.08 ng
RT: 19.42 min Scan# 2779
Delta R.T. -0.023 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 91 Resp: 73315

Ion	Ratio	Lower	Upper
91	100		
92	60.0	38.8	78.8

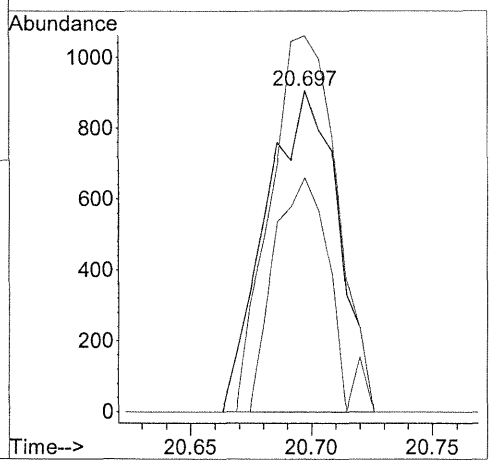


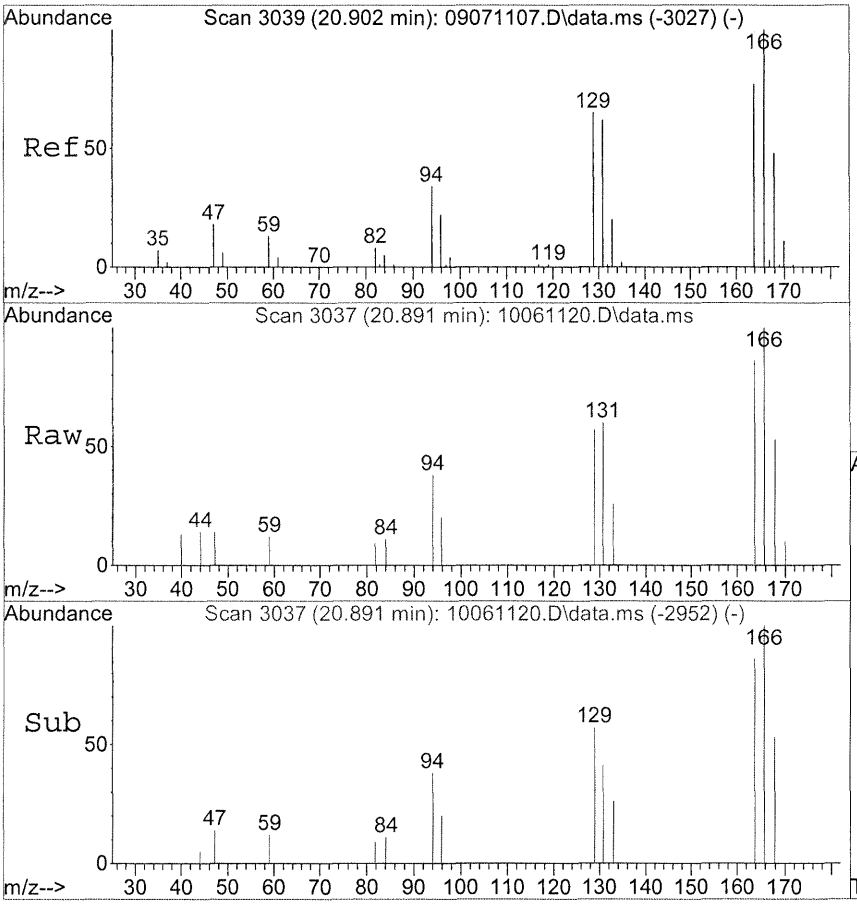


#63
n-Octane
Concen: 0.12 ng
RT: 20.70 min Scan# 3003
Delta R.T. -0.017 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 57 Resp: 1883

Ion	Ratio	Lower	Upper
57	100		
85	108.4	110.6	166.0#
71	56.9	61.0	91.6#

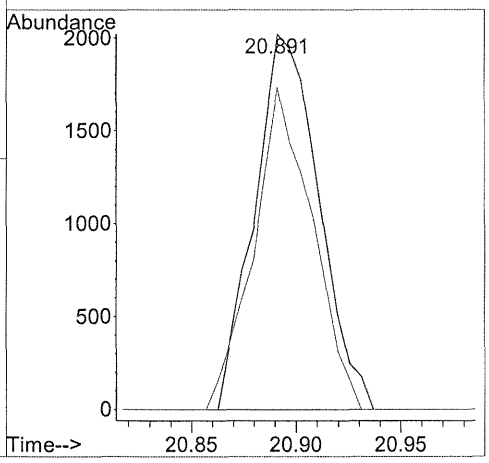


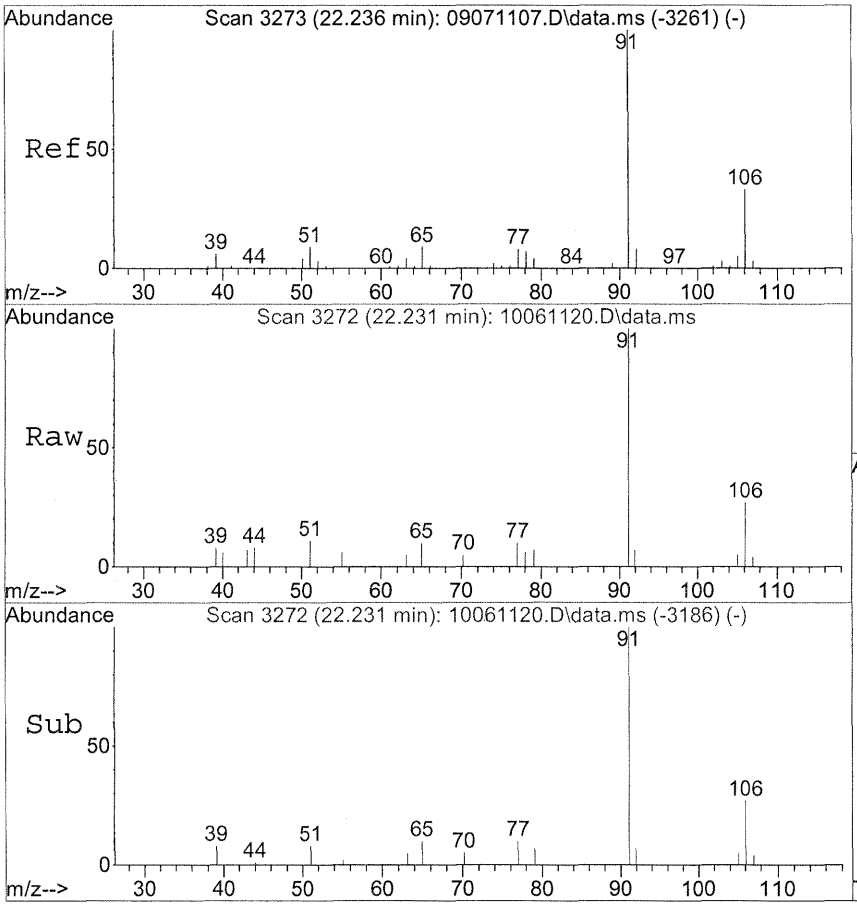


#64
Tetrachloroethene
Concen: 0.20 ng
RT: 20.89 min Scan# 3037
Delta R.T. -0.017 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion:166 Resp: 4295

Ion	Ratio	Lower	Upper
166	100		
164	78.2	58.2	98.2

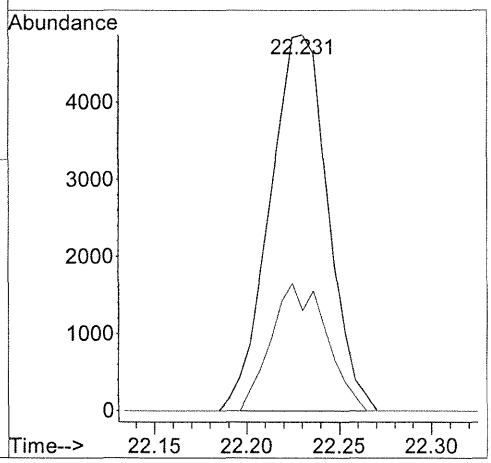


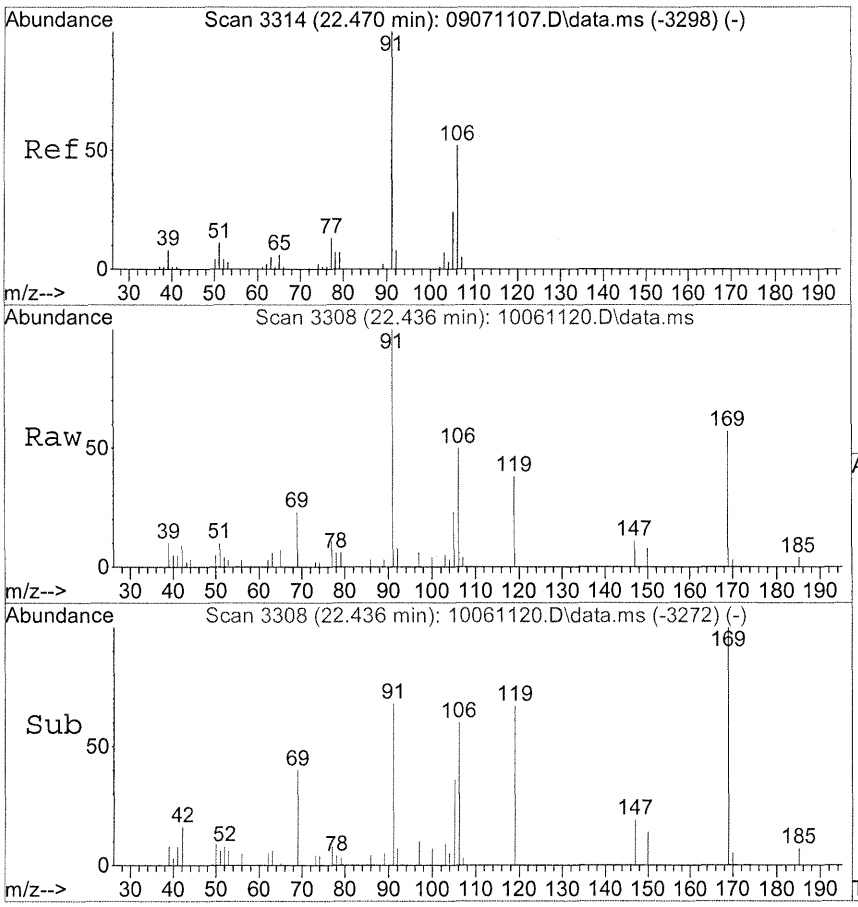


#66
Ethylbenzene
Concen: 0.14 ng
RT: 22.23 min Scan# 3272
Delta R.T. -0.011 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 91 Resp: 10572

Ion	Ratio	Lower	Upper
91	100		
106	32.2	12.0	52.0

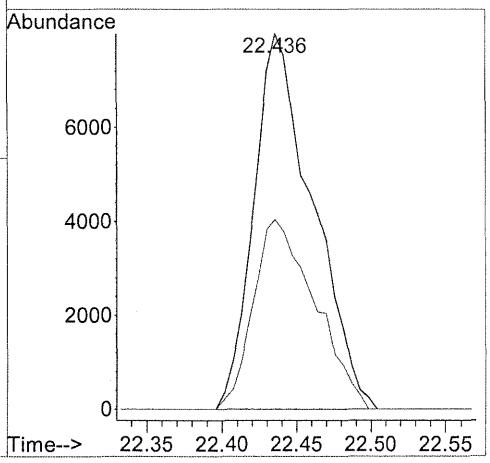


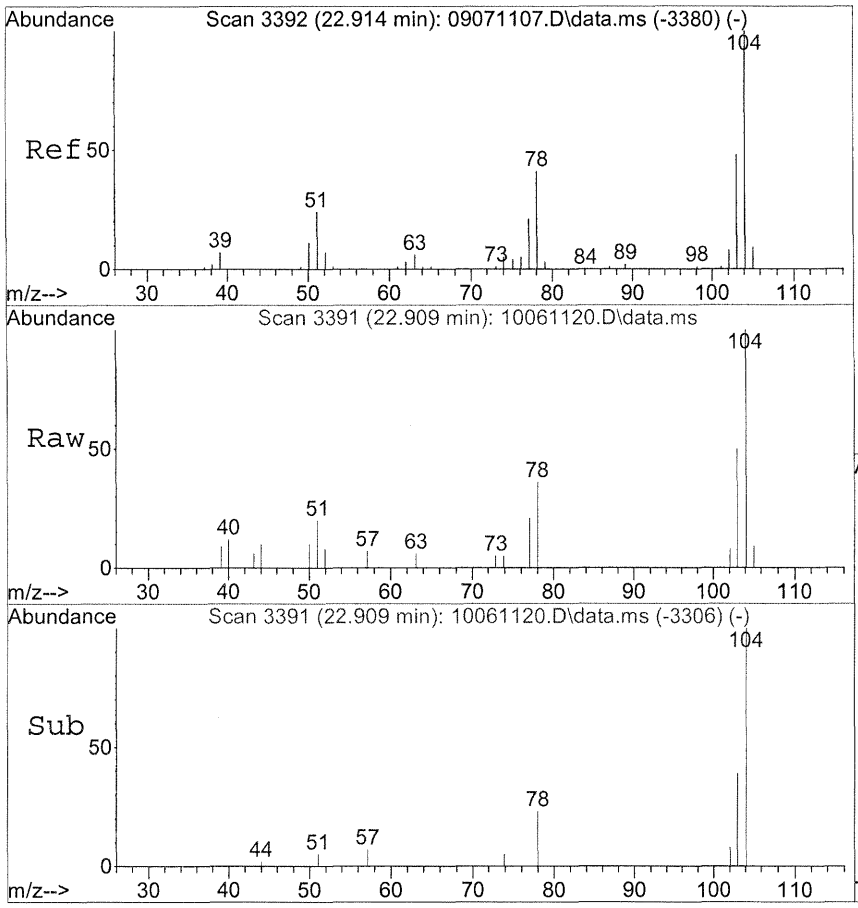


#67
m- & p-Xylenes
Concen: 0.37 ng
RT: 22.44 min Scan# 3308
Delta R.T. -0.046 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 91 Resp: 21968

Ion	Ratio	Lower	Upper
91	100		
106	52.7	27.4	67.4

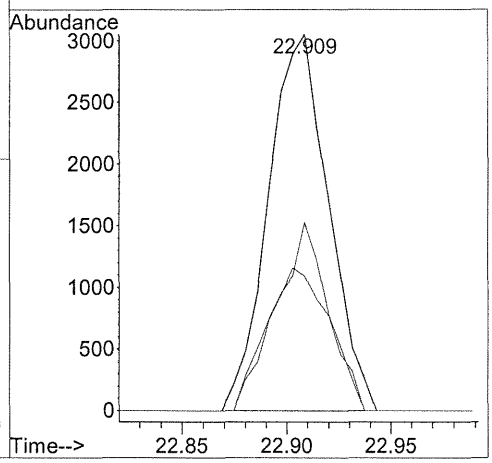


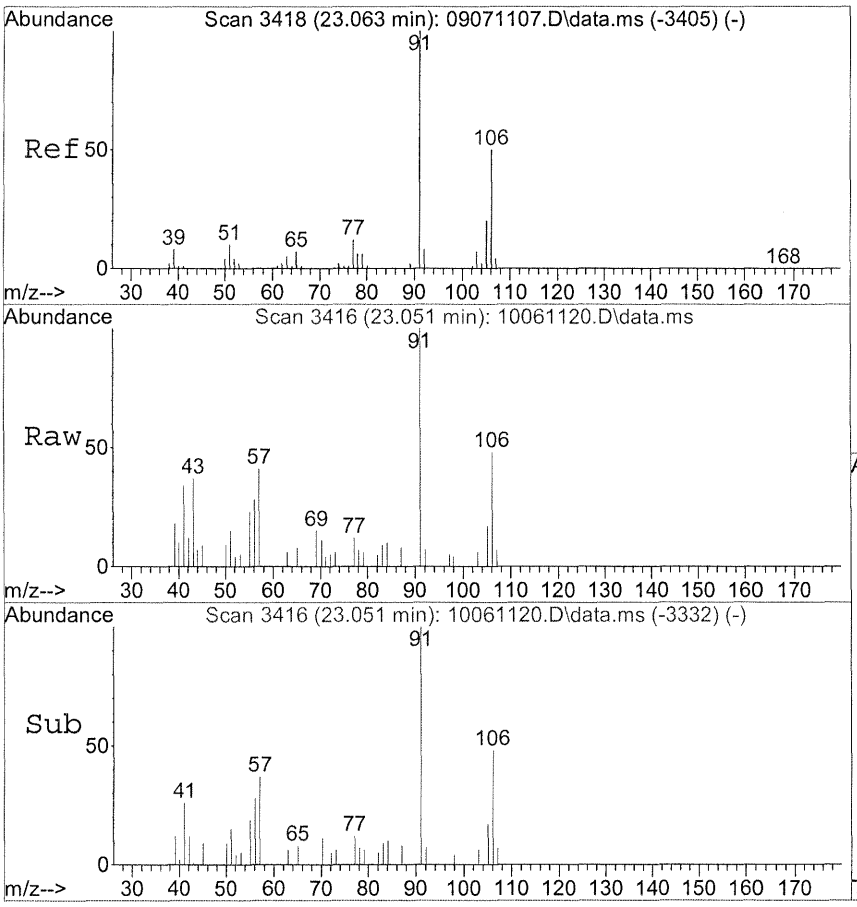


#69
Styrene
Concen: 0.13 ng
RT: 22.91 min Scan# 3391
Delta R.T. -0.017 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion:104 Resp: 6131

Ion	Ratio	Lower	Upper
104	100		
78	39.3	27.4	67.4
103	44.1	27.3	67.3

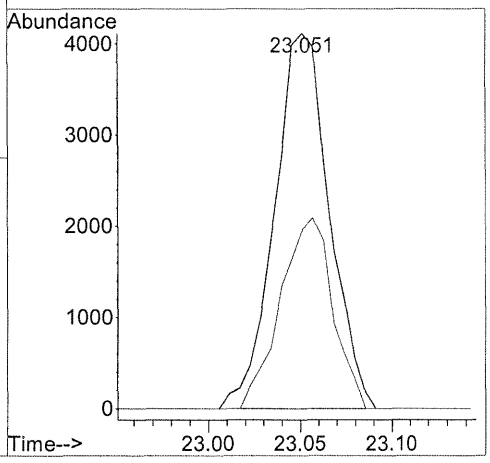


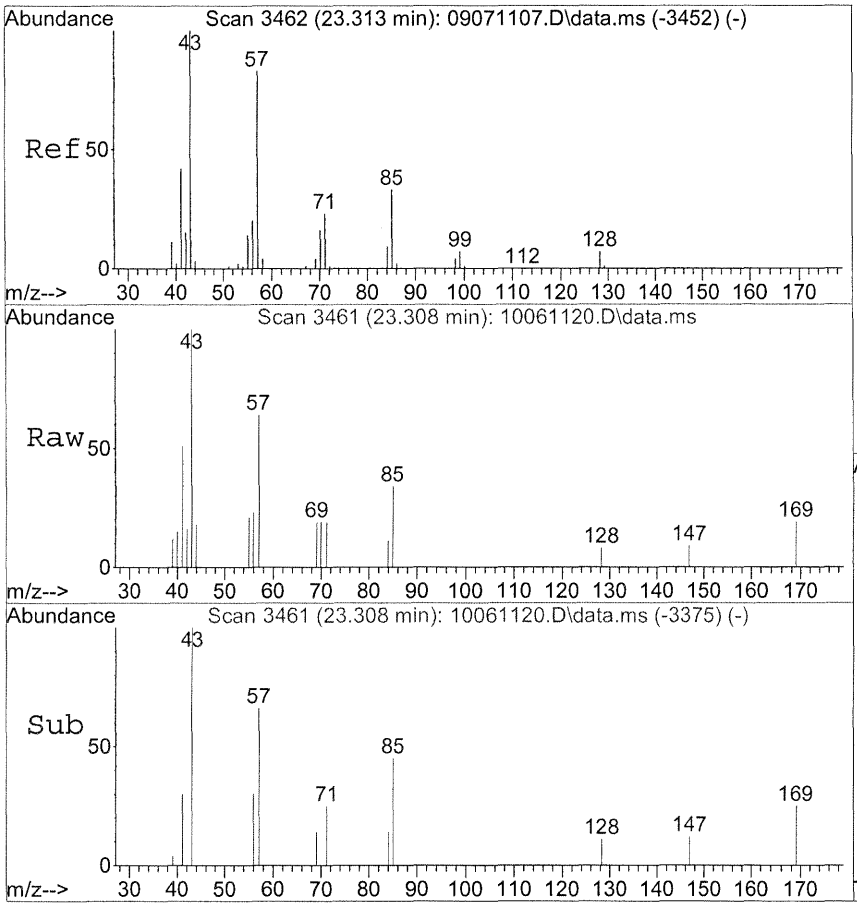


#70
o-Xylene
Concen: 0.14 ng
RT: 23.05 min Scan# 3416
Delta R.T. -0.023 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 91 Resp: 8531

Ion	Ratio	Lower	Upper
91	100		
106	48.6	25.7	65.7

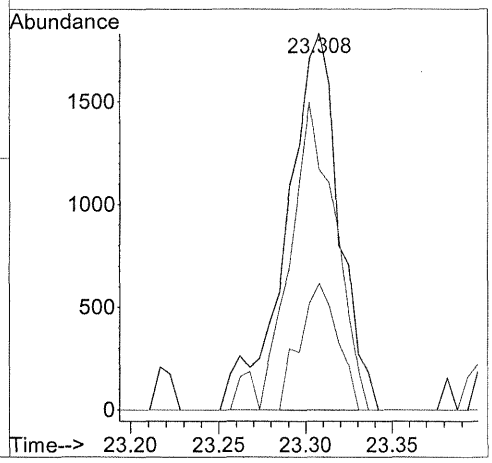


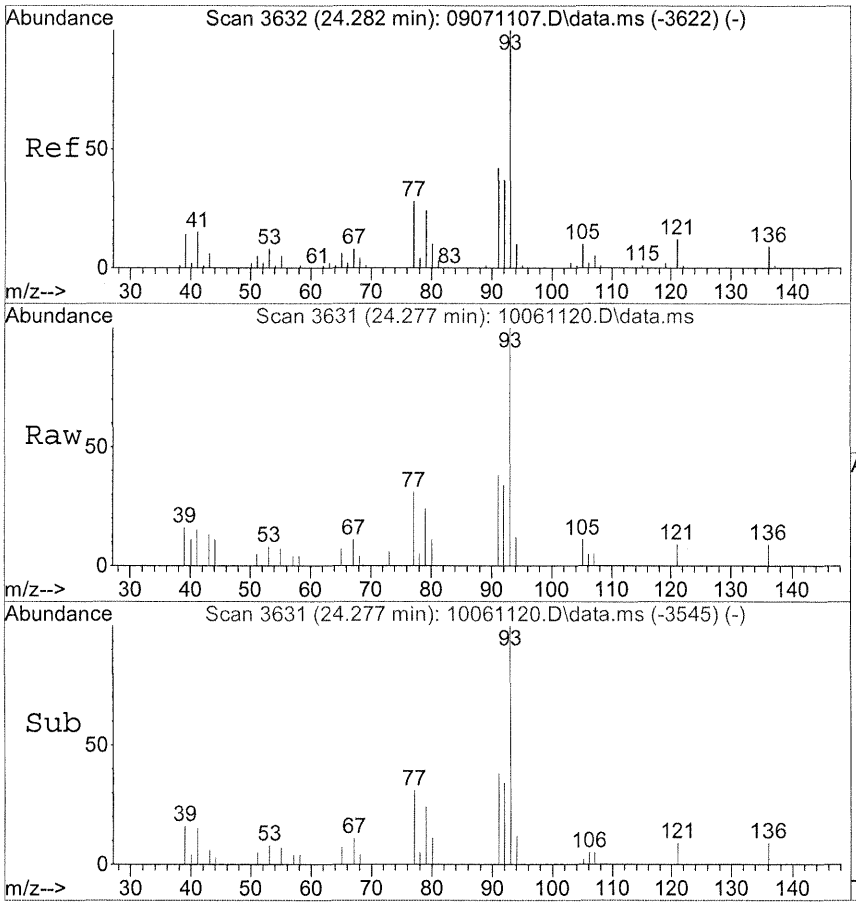


#71
n-Nonane
Concen: 0.10 ng
RT: 23.31 min Scan# 3461
Delta R.T. -0.012 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 43 Resp: 3884

Ion	Ratio	Lower	Upper
43	100		
57	72.1	75.1	115.1#
85	24.3	22.0	62.0

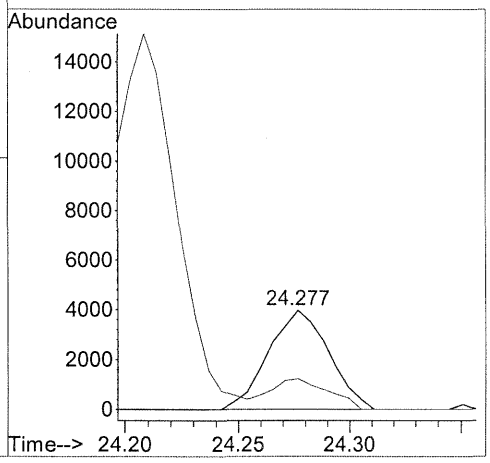


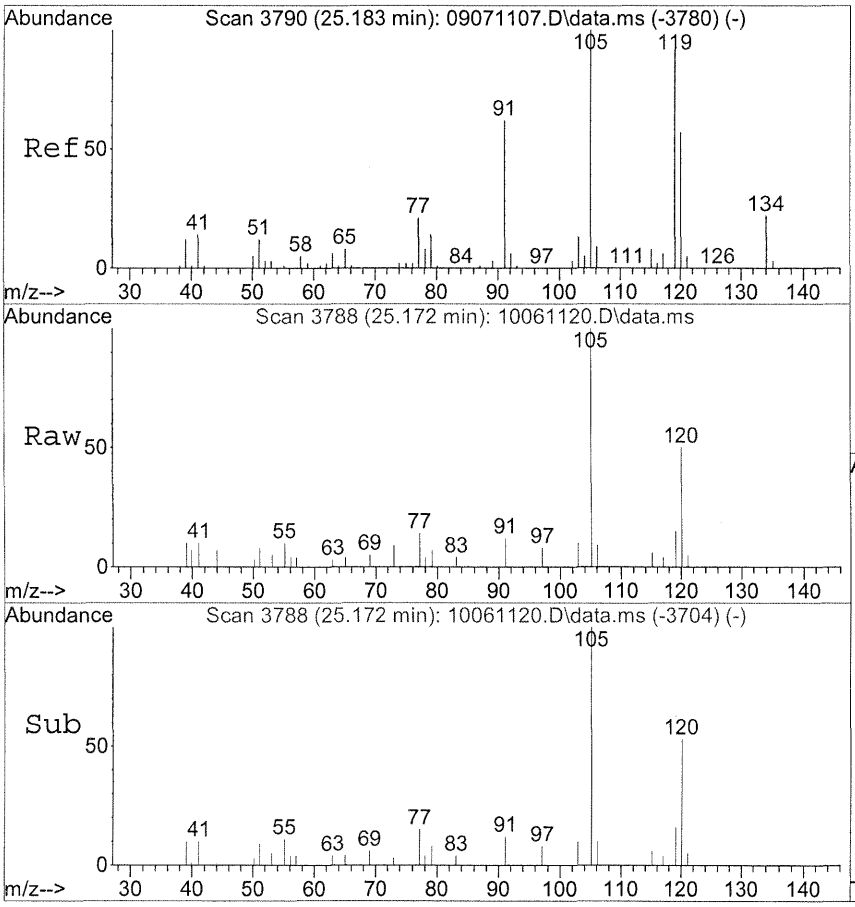


#75
alpha-Pinene
Concen: 0.19 ng
RT: 24.28 min Scan# 3631
Delta R.T. -0.012 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 93 Resp: 7468

Ion	Ratio	Lower	Upper
93	100		
77	29.9	12.5	52.5

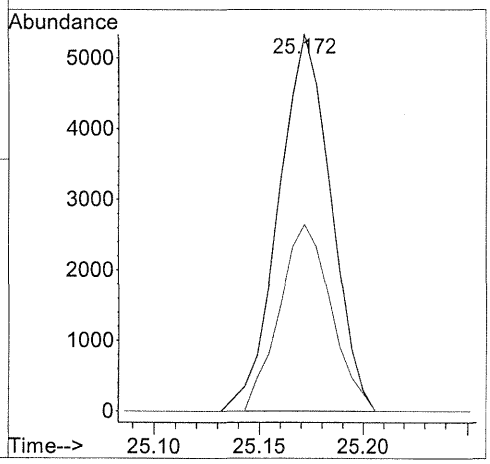


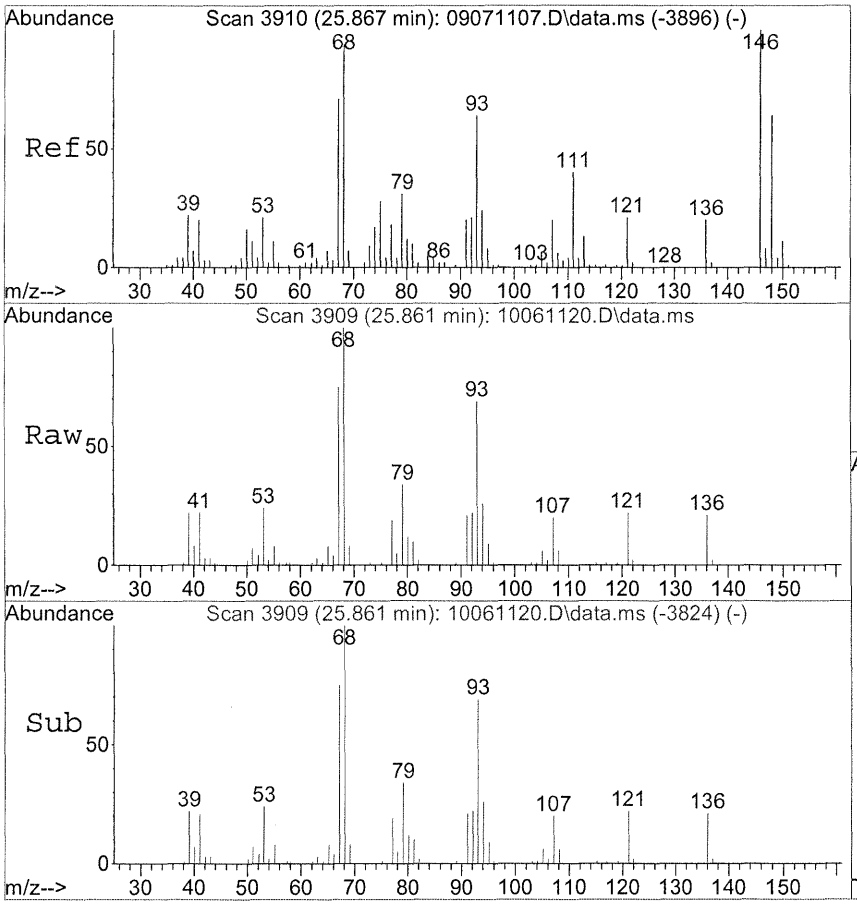


#82
1,2,4-Trimethylbenzene
Concen: 0.14 ng
RT: 25.17 min Scan# 3788
Delta R.T. -0.023 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion:105 Resp: 9346

Ion	Ratio	Lower	Upper
105	100		
120	48.9	29.9	69.9

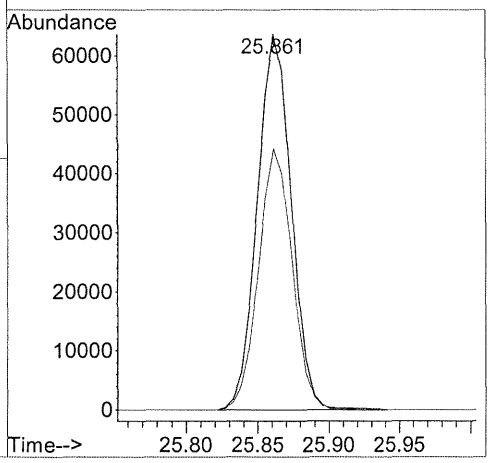




#91
d-Limonene
Concen: 4.05 ng
RT: 25.86 min Scan# 3909
Delta R.T. -0.017 min
Lab File: 10061120.D
Acq: 7 Oct 2011 7:55

Tgt Ion: 68 Resp: 105487

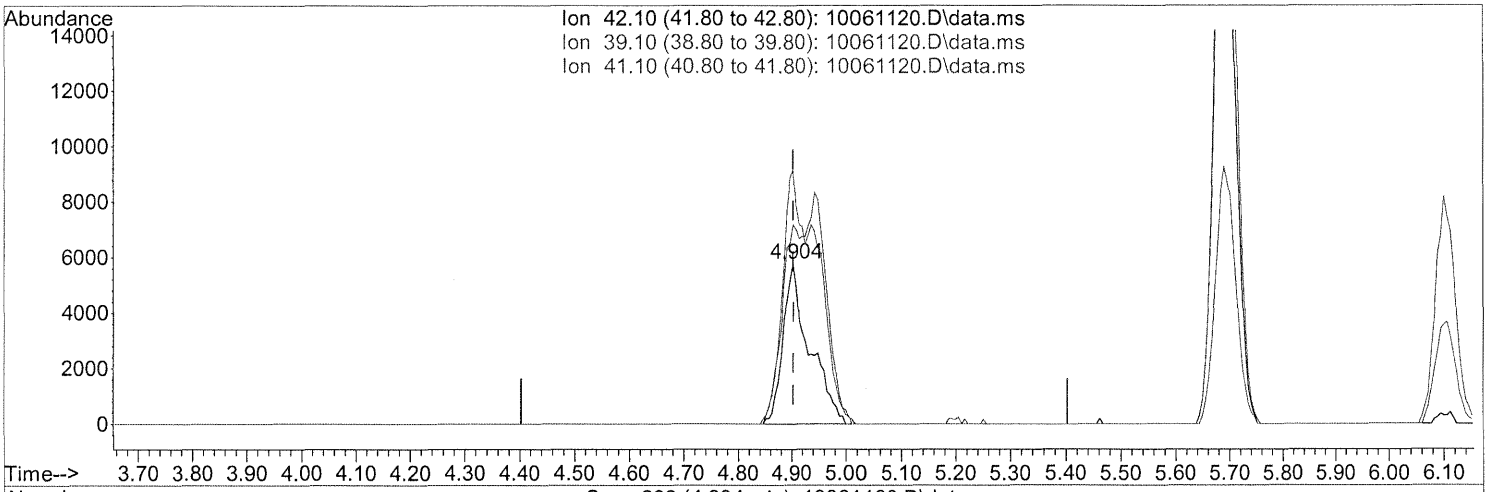
Ion	Ratio	Lower	Upper
68	100		
93	69.3	51.7	91.7

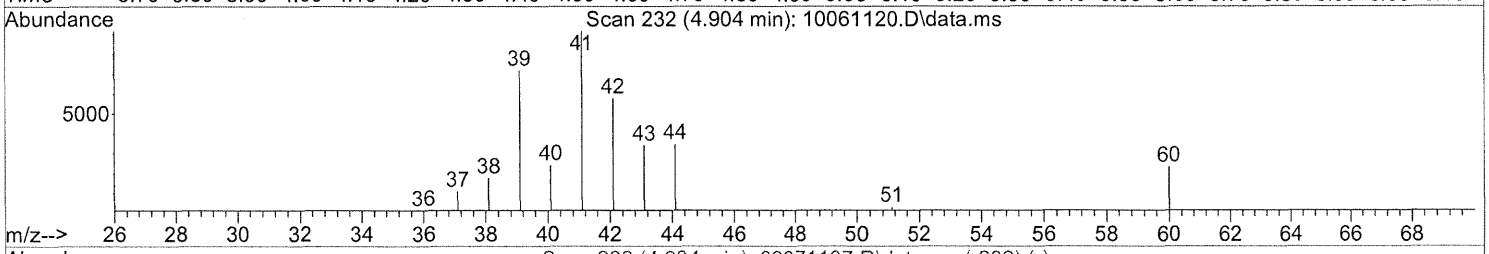


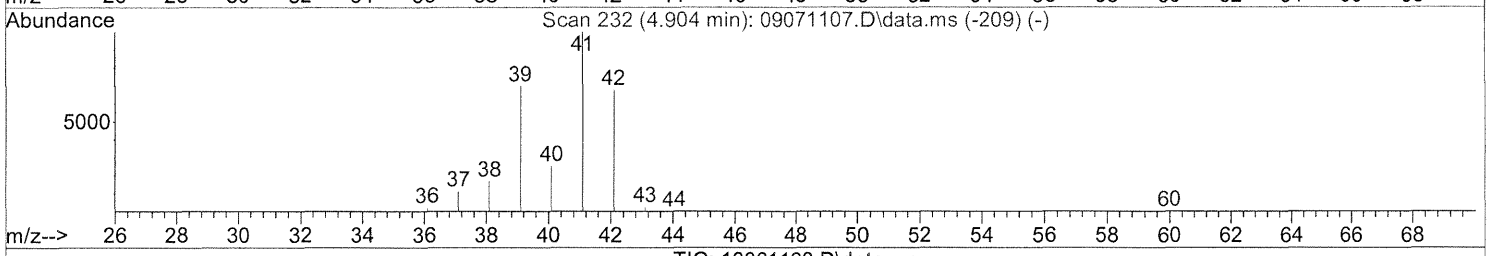
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061120.D\data.ms

(2) Propene (T)

4.904min (-0.000) 0.83ng

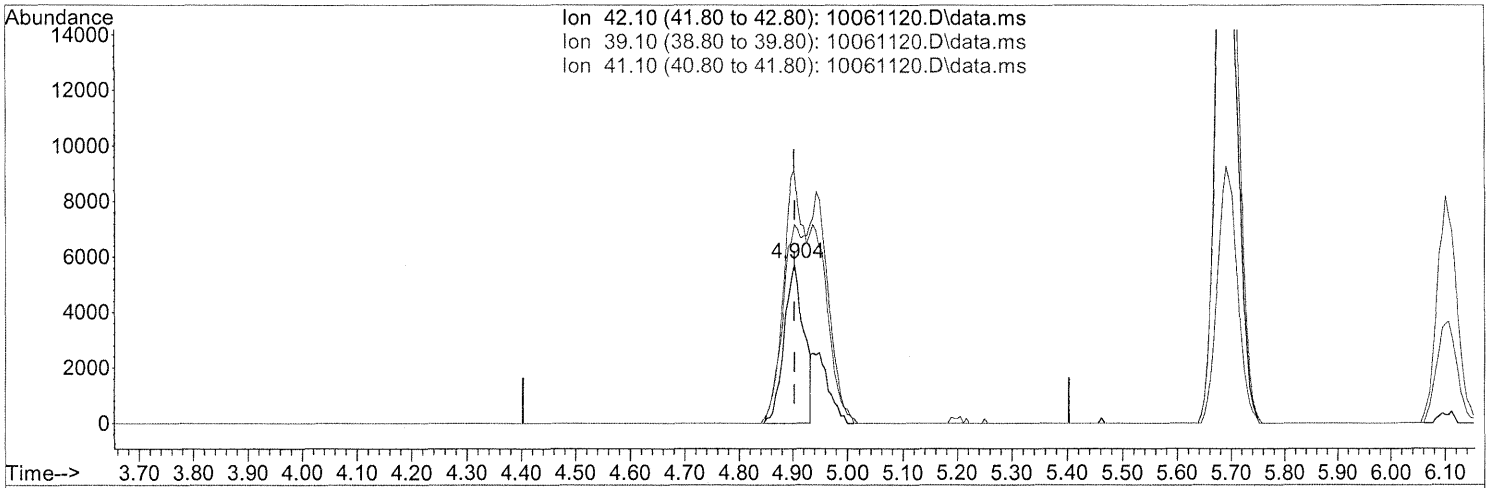
response 19778

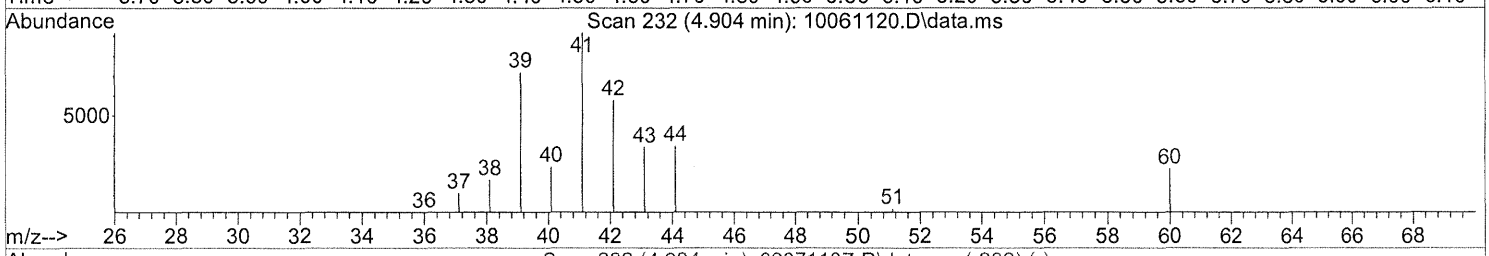
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	209.52#
0.00	0.00	0.00

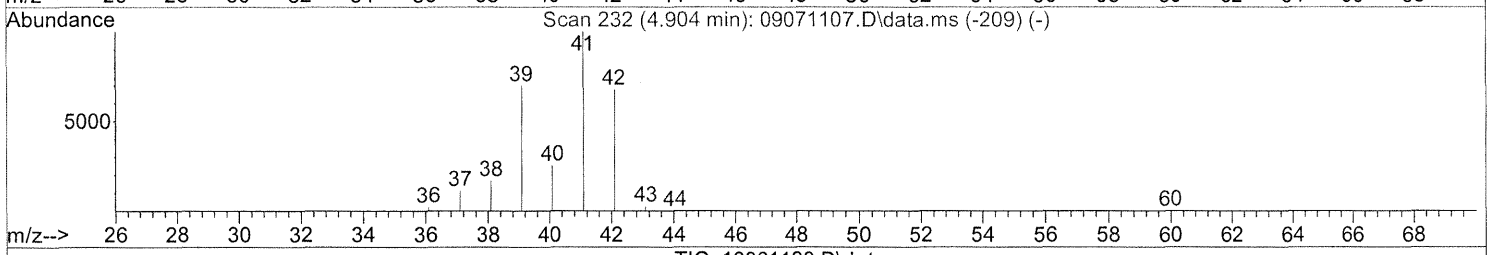
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061120.D\data.ms

(2) Propene (T)

4.904min (-0.000) 0.61ng m

response 14450

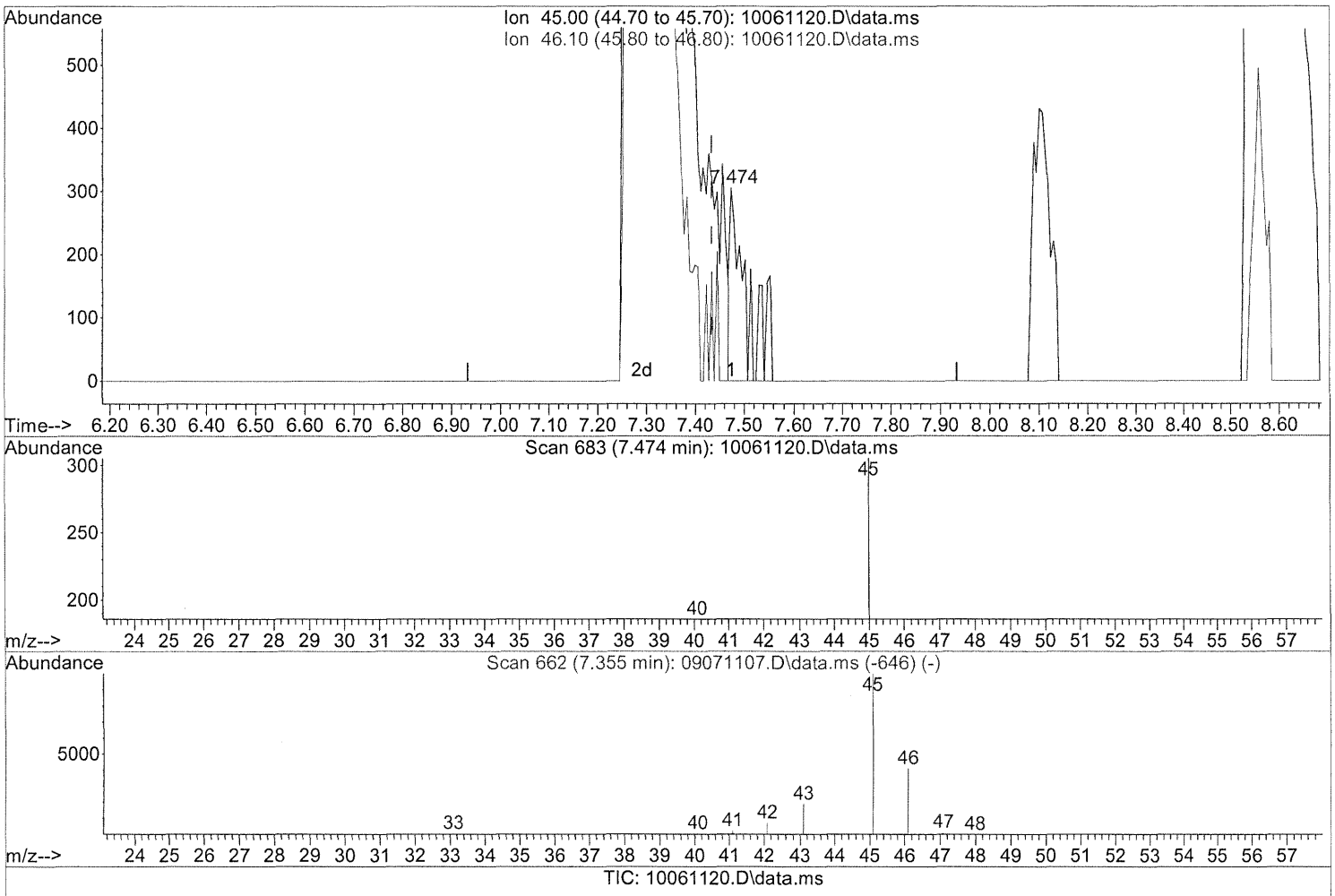
Ion	Exp%	Act%
42.10	100	100
39.10	108.80	0.00#
41.10	146.10	286.78#
0.00	0.00	0.00

IPC
10/7/11
10/7/11

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061120.D\data.ms

(10) Ethanol (T)

7.474min (+0.040) 0.04ng

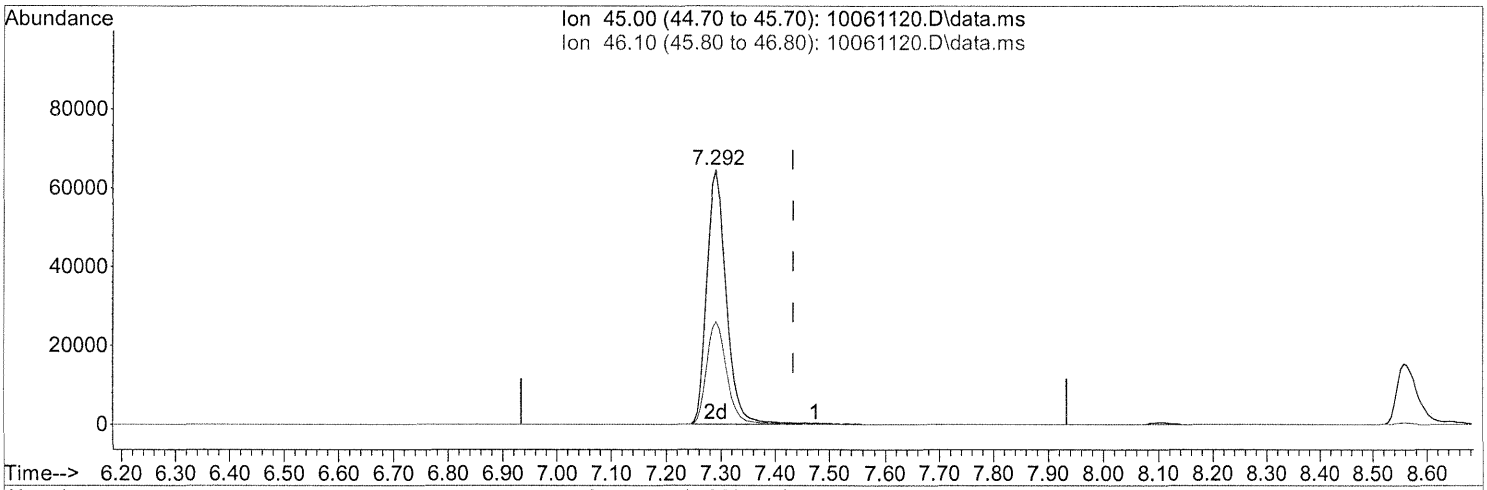
response 502

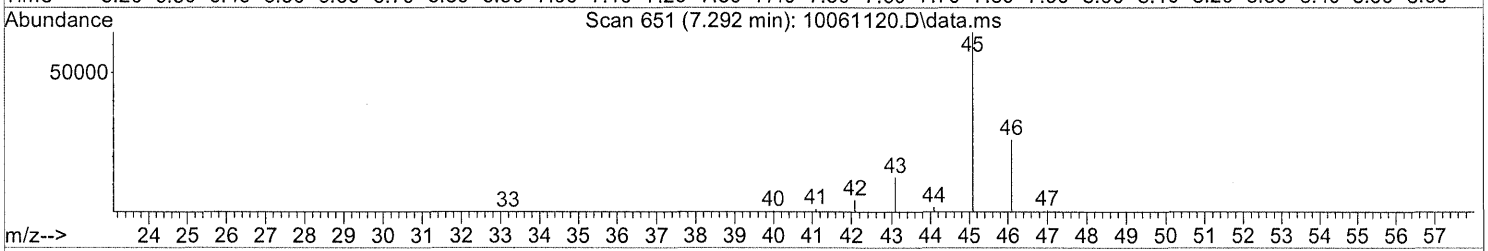
Ion	Exp%	Act%
45.00	100	100
46.10	40.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

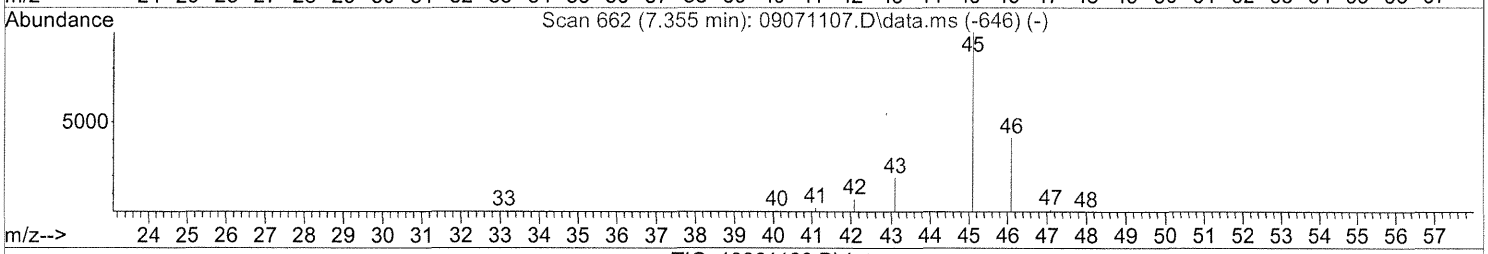
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061120.D\data.ms

(10) Ethanol (T)

7.292min (-0.143) 11.64ng m

response 160277

Ion	Exp%	Act%
45.00	100	100
46.10	40.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

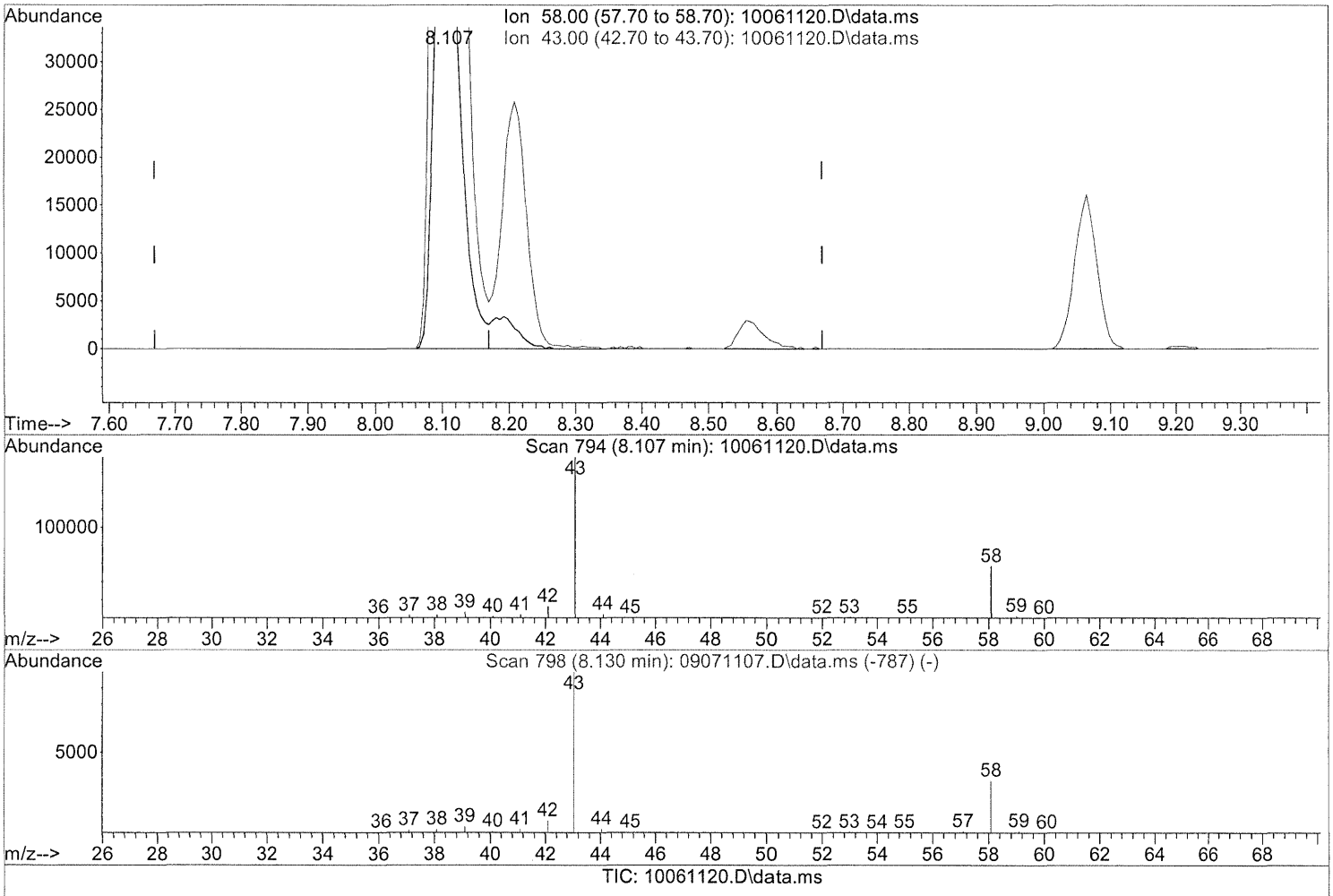
SP
Em 10/7/11

10/7/11

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061120.D\data.ms

(13) Acetone (T)

8.107min (-0.063) 11.33ng

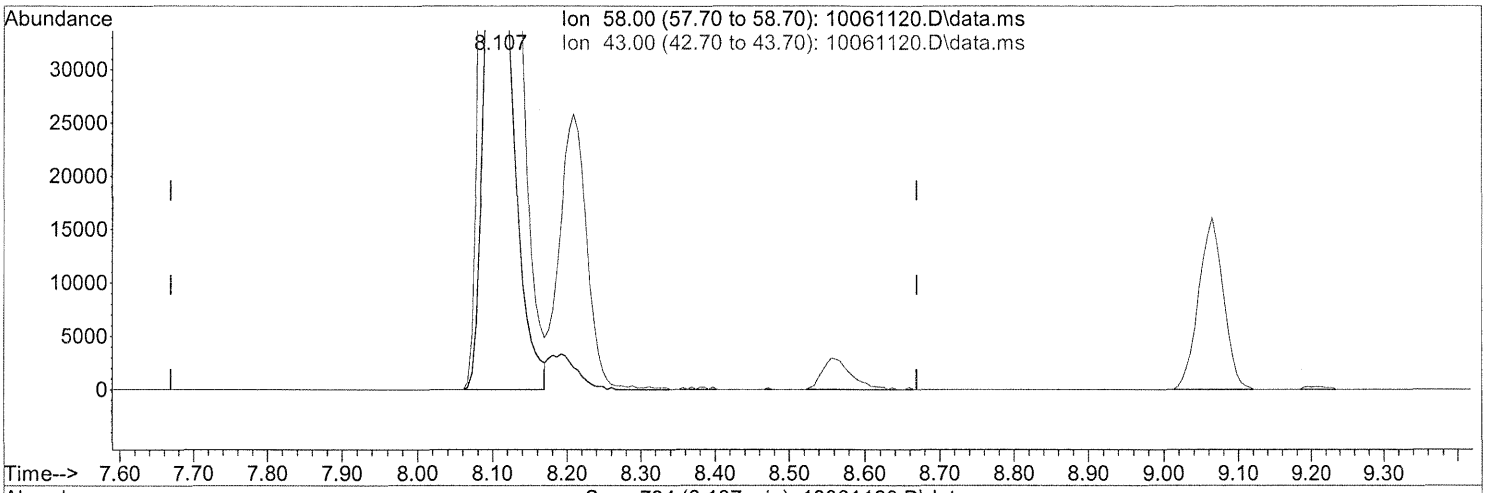
response 149298

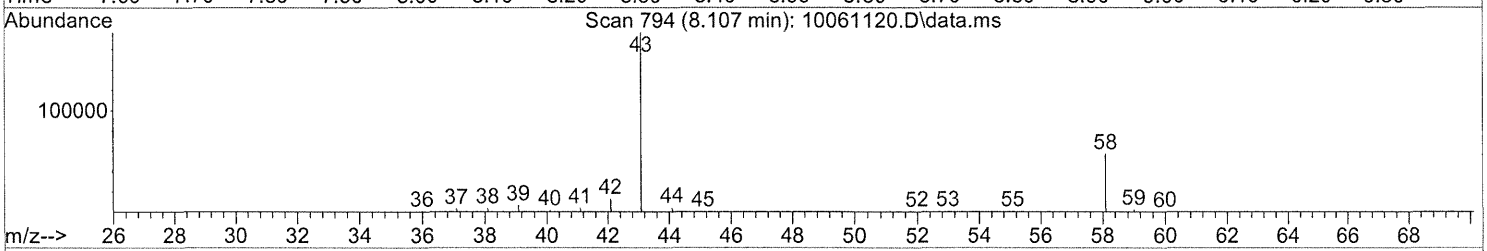
Ion	Exp%	Act%
58.00	100	100
43.00	313.80	292.21
0.00	0.00	0.00
0.00	0.00	0.00

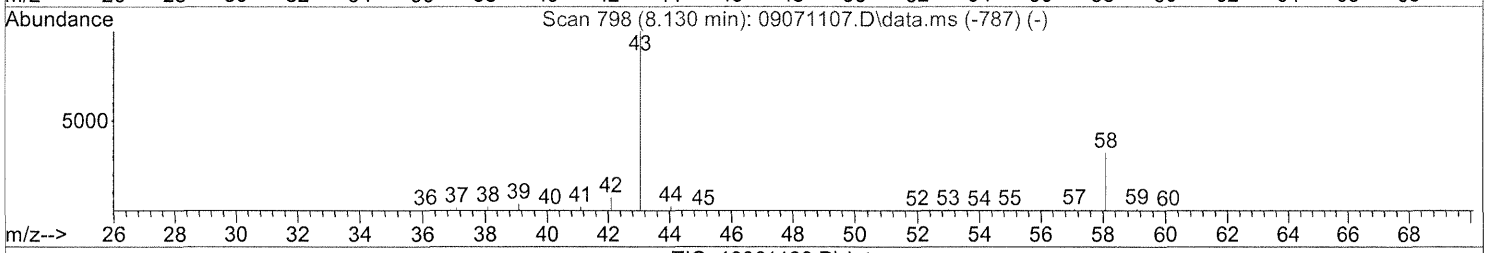
Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration







TIC: 10061120.D\data.ms

(13) Acetone (T)

8.107min (-0.063) 10.67ng m

response 140537

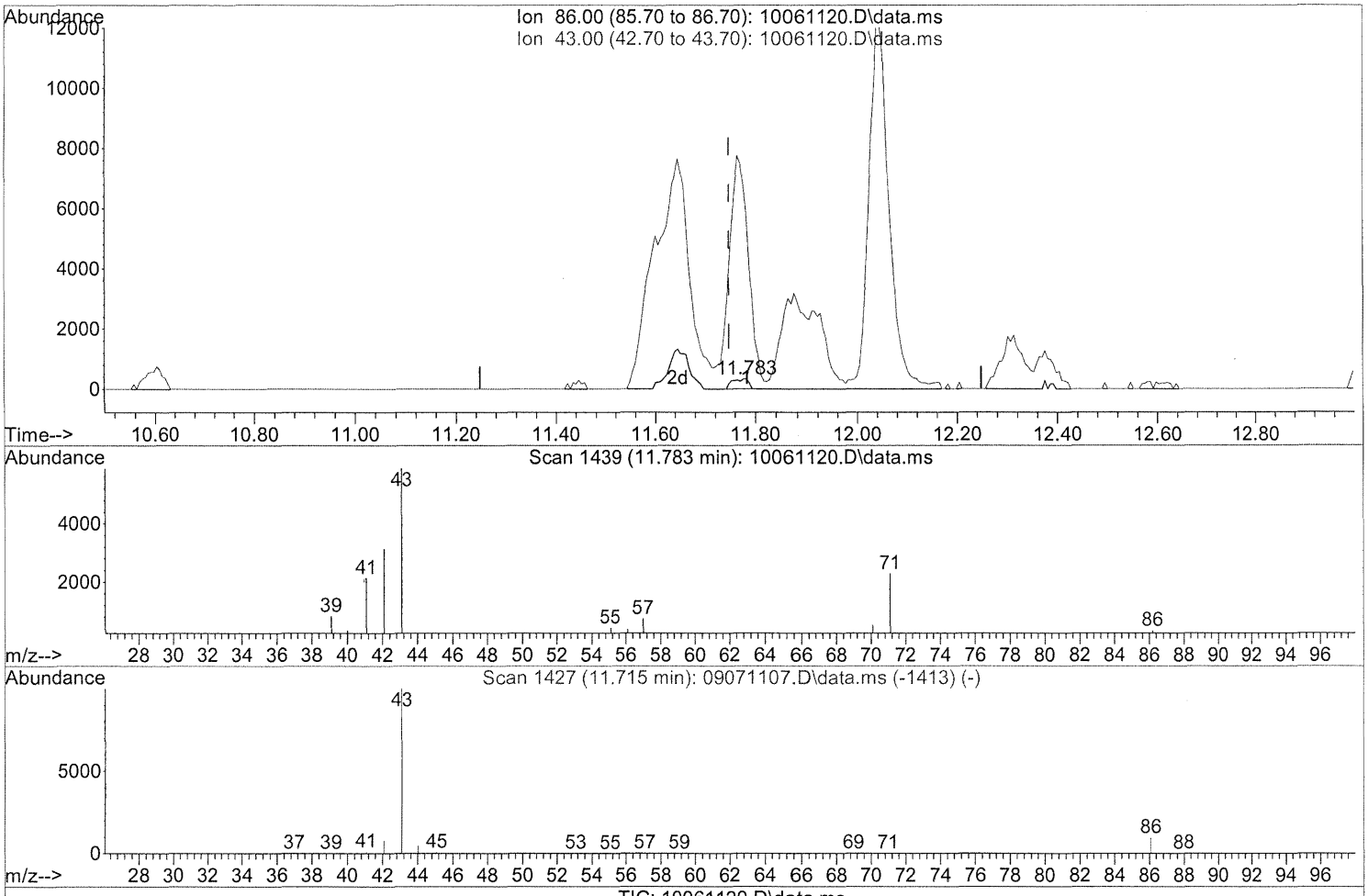
Ion	Exp%	Act%
58.00	100	100
43.00	313.80	310.42
0.00	0.00	0.00
0.00	0.00	0.00

IPC
EM 10/7/11
10/7/11

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061120.D\data.ms

(26) Vinyl Acetate (T)

11.783min (+0.034) 0.15ng

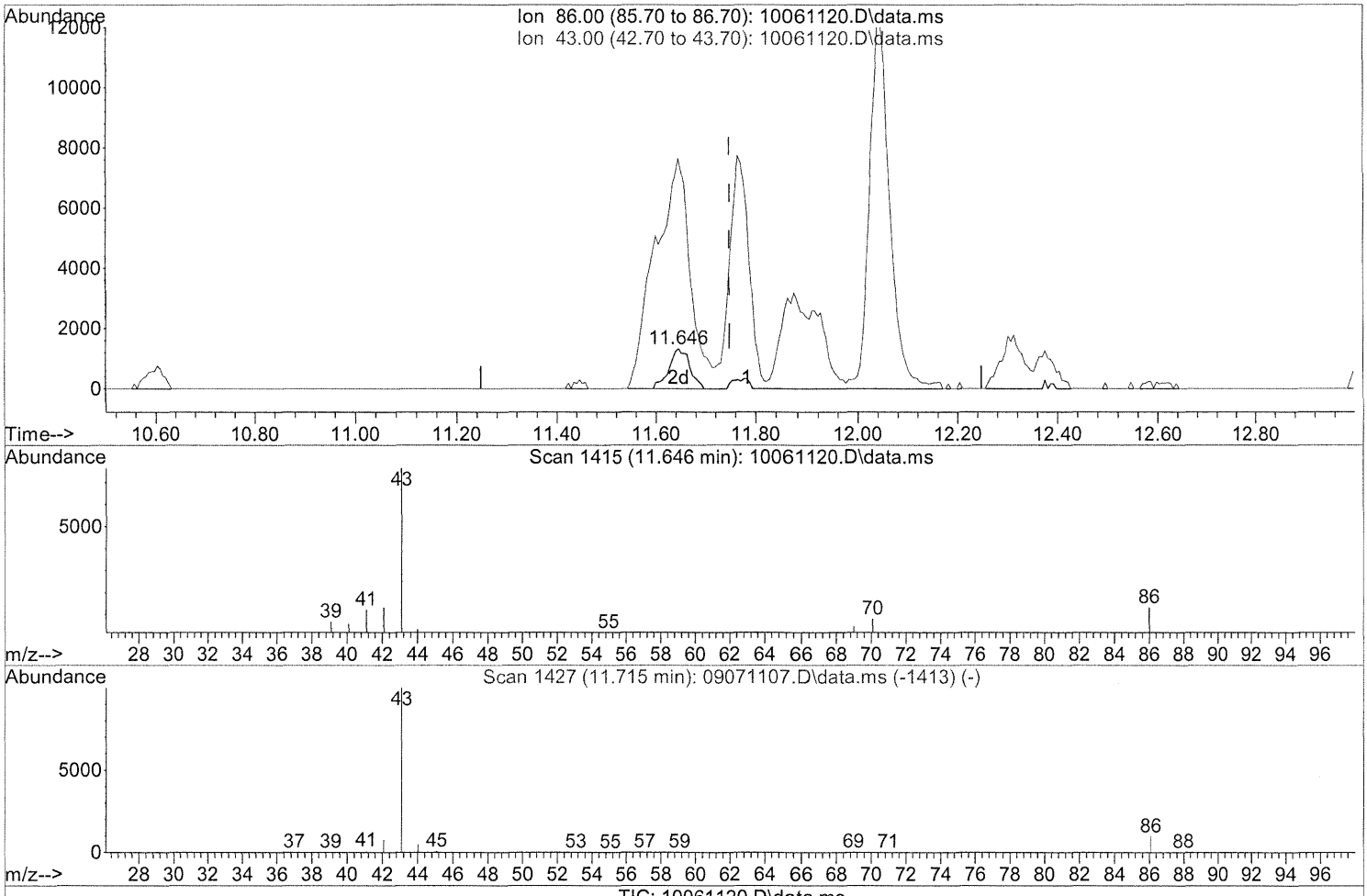
response 712

Ion	Exp%	Act%
86.00	100	100
43.00	845.70	2923.88#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



TIC: 10061120.D\data.ms

(26) Vinyl Acetate (T)

11.646min (-0.103) 0.81ng m

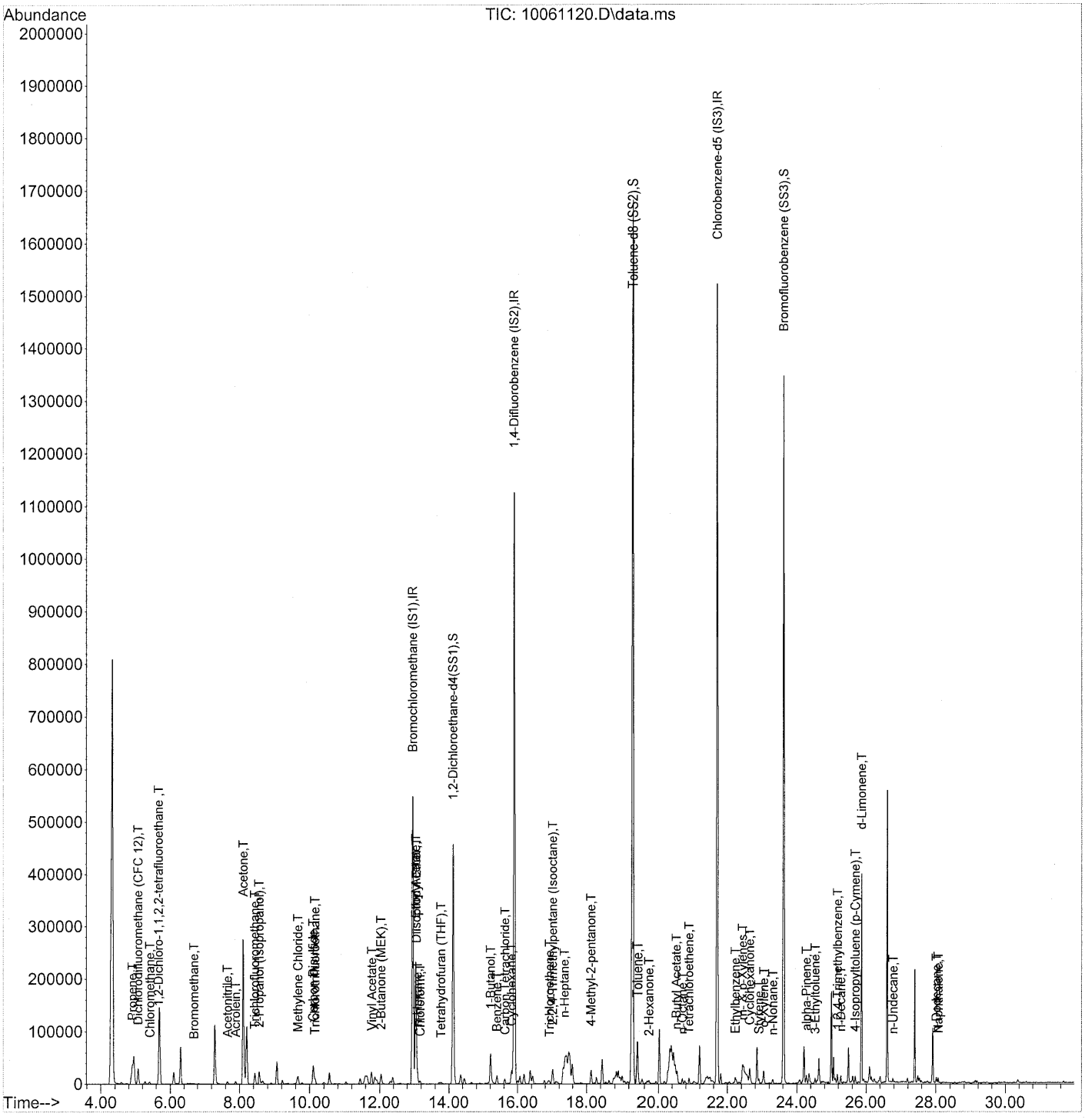
response 3774

Ion	Exp%	Act%
86.00	100	100
43.00	845.70	551.62#
0.00	0.00	0.00
0.00	0.00	0.00

WP
Em 10/7/11
10/7/11

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55 am
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55 am
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	297415	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.90	114	1338324	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	632038	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.12	65	434157	24.424	ng		-0.03
Spiked Amount 25.000			Recovery = 97.68%				
57) Toluene-d8 (SS2)	19.29	98	1473529	25.085	ng		-0.02
Spiked Amount 25.000			Recovery = 100.36%				
73) Bromofluorobenzene (SS3)	23.62	174	526703	25.416	ng		-0.01
Spiked Amount 25.000			Recovery = 101.68%				
Target Compounds							Qvalue
2) Propene	4.90	42	19778	0.830	ng	#	27
3) Dichlorodifluoromethan...	5.07	85	43860	1.490	ng		100
4) Chloromethane	5.42	50	4220	0.171	ng		94
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	1071	0.066	ng		73
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.19	54	615	N.D.			
8) Bromomethane	6.69	94	819	0.061	ng		87
9) Chloroethane	7.05	64	303	N.D.			
10) Ethanol	7.47	45	502	N.D.			
11) Acetonitrile	7.66	41	5284	0.165	ng		80
12) Acrolein	7.89	56	6282	0.603	ng		99
13) Acetone	8.11	58	149298	11.335	ng		89
14) Trichlorofluoromethane	8.44	101	22620	0.855	ng		99
15) 2-Propanol (Isopropanol)	8.56	45	41506	1.121	ng		94
16) Acrylonitrile	8.91	53	1016	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.57	59	1557	N.D.			
19) Methylene Chloride	9.67	84	7761	0.475	ng		83
20) 3-Chloro-1-propene (Al...	9.79	41	555	N.D.			
21) Trichlorotrifluoroethane	10.15	151	5114	0.371	ng		87
22) Carbon Disulfide	10.10	76	69073	1.219	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	11.58	73	779	N.D.			
26) Vinyl Acetate	11.78	86	712	0.154	ng	#	1
27) 2-Butanone (MEK)	12.04	72	7772	0.684	ng	#	41
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	13.06	87	1086	0.077	ng	#	1
30) Ethyl Acetate	13.05	61	51541	8.372	ng		81
31) n-Hexane	13.10	57	10955	0.345	ng	#	93

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55 am
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	13.17	83	5717	0.238 ng		94
34) Tetrahydrofuran (THF)	13.77	72	955	0.090 ng	#	33
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.28	62	532	N.D.		
38) 1,1,1-Trichloroethane	14.71	97	298	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.21	56	45137	2.317 ng	#	66
41) Benzene	15.39	78	19686	0.313 ng		99
42) Carbon Tetrachloride	15.63	117	7688	0.394 ng		96
43) Cyclohexane	15.82	84	14605	0.535 ng		92
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	555	N.D.		
47) Trichloroethene	16.92	130	1454	0.080 ng		89
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	17.02	57	30710	0.396 ng		99
50) Methyl Methacrylate	17.16	100	199	N.D.		
51) n-Heptane	17.36	71	4069	0.218 ng	#	79
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.13	58	9377	0.586 ng	#	88
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.02	97	151	N.D.		
58) Toluene	19.42	91	73315	1.079 ng		98
59) 2-Hexanone	19.73	43	4496	0.119 ng	#	70
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.52	43	4931	0.111 ng		95
63) n-Octane	20.70	57	1883	0.122 ng	#	76
64) Tetrachloroethene	20.89	166	4295	0.202 ng		100
65) Chlorobenzene	21.79	112	142	N.D.		
66) Ethylbenzene	22.23	91	10572	0.142 ng		100
67) m- & p-Xylenes	22.44	91	21968	0.371 ng		92
68) Bromoform	22.55	173	238	N.D.		
69) Styrene	22.91	104	6131	0.132 ng		92
70) o-Xylene	23.05	91	8531	0.137 ng		96
71) n-Nonane	23.31	43	3884	0.096 ng	#	75
72) 1,1,2,2-Tetrachloroethane	23.05	83	648	N.D.		
74) Cumene	23.78	105	757	N.D.		
75) alpha-Pinene	24.28	93	7468	0.186 ng		95
76) n-Propylbenzene	24.41	91	2850	N.D.		
77) 3-Ethyltoluene	24.53	105	6514	0.083 ng		98
78) 4-Ethyltoluene	24.58	105	3386	N.D.		
79) 1,3,5-Trimethylbenzene	24.67	105	2646	N.D.		

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061120.D
Acq On : 7 Oct 2011 7:55 am
Operator : EM/CR
Sample : P1103662-009 (1000ml)
Misc :
ALS Vial : 11 Sample Multiplier: 1

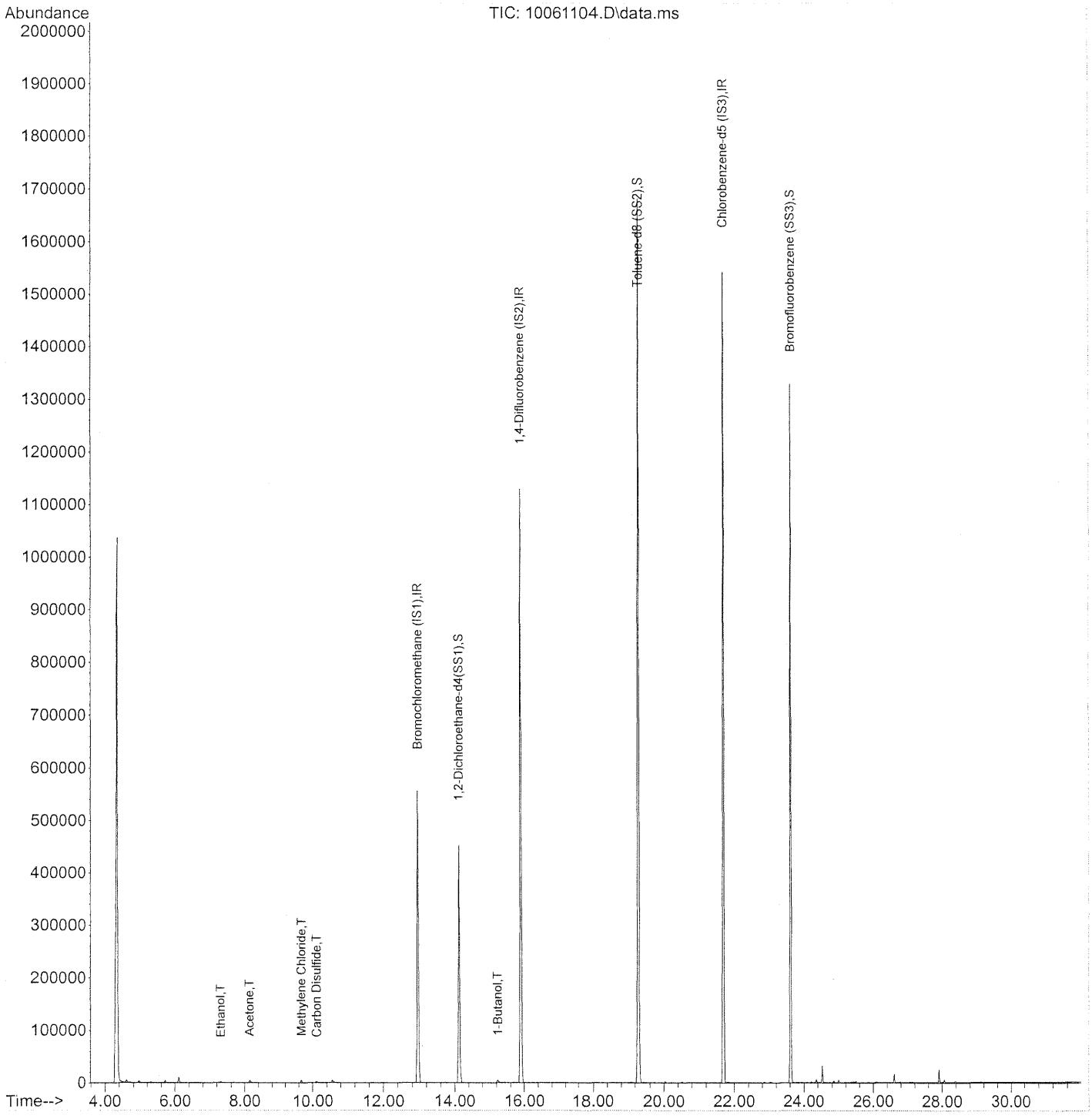
Quant Time: Oct 07 08:46:18 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.86	118	947	N.D.		
81) 2-Ethyltoluene	24.91	105	2558	N.D.		
82) 1,2,4-Trimethylbenzene	25.17	105	9346	0.142 ng		99
83) n-Decane	25.27	57	5643	0.140 ng		88
84) Benzyl Chloride	25.34	91	249	N.D.		
85) 1,3-Dichlorobenzene	25.45	146	1008	N.D.		
86) 1,4-Dichlorobenzene	25.45	146	1008	N.D.		
87) sec-Butylbenzene	25.50	105	1562	N.D.		
88) 4-Isopropyltoluene (p-...	25.68	119	5260	0.061 ng		91
89) 1,2,3-Trimethylbenzene	25.70	105	2617	N.D.		
90) 1,2-Dichlorobenzene	25.45	146	1008	N.D.		
91) d-Limonene	25.86	68	105487	4.047 ng		97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.77	57	2901	0.073 ng	#	75
94) 1,2,4-Trichlorobenzene	27.92	180	396	N.D.		
95) Naphthalene	28.07	128	7875	0.081 ng		94
96) n-Dodecane	28.02	57	4047	0.111 ng		92
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.64	55	13608	0.548 ng		91
99) tert-Butylbenzene	25.17	119	1034	N.D.		
100) n-Butylbenzene	26.25	91	1229	N.D.		

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

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061104.D
Acq On : 6 Oct 2011 11:03 am
Operator : EM/CR
Sample : TO-15 Method Blank (1000ml)
Misc : S25-09271101
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 11:42:22 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061104.D
Acq On : 6 Oct 2011 11:03 am
Operator : EM/CR
Sample : TO-15 Method Blank (1000ml)
Misc : S25-09271101
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 11:42:22 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.97	130	300777	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.91	114	1334047	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	635258	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	438369	24.385	ng		-0.02
Spiked Amount 25.000			Recovery =	97.52%			✓
57) Toluene-d8 (SS2)	19.30	98	1476985	25.017	ng		-0.01 ✓
Spiked Amount 25.000			Recovery =	100.08%			✓
73) Bromofluorobenzene (SS3)	23.62	174	531293	25.508	ng		0.00 ✓
Spiked Amount 25.000			Recovery =	102.04%			✓
Target Compounds							Qvalue
2) Propene	4.94	42	56	N.D.			
3) Dichlorodifluoromethan...	5.07	85	65	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	7.31	45	2454	0.176	ng		93
11) Acetonitrile	7.67	41	802	N.D.			
12) Acrolein	7.91	56	70	N.D.			
13) Acetone	8.15	58	2926	0.220	ng	#	76
14) Trichlorofluoromethane	0.00	101	0	N.D.			
15) 2-Propanol (Isopropanol)	8.61	45	1117	N.D.			
16) Acrylonitrile	8.92	53	62	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	9.69	84	2997	0.181	ng		80
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	10.11	76	4091	0.071	ng		86
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)	12.08	72	56	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	0.00	87	0	N.D.			
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061104.D
Acq On : 6 Oct 2011 11:03 am
Operator : EM/CR
Sample : TO-15 Method Blank (1000ml)
Misc : S25-09271101
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 11:42:22 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
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	14.16	62	134	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	15.24	56	4408	0.227 ng	# 63
41) Benzene	15.40	78	594	N.D.	
42) Carbon Tetrachloride	0.00	117	0	N.D.	
43) Cyclohexane	15.92	84	651	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	19.43	91	1583	N.D.	
59) 2-Hexanone	19.73	43	642	N.D.	
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.52	43	2027	N.D.	
63) n-Octane	0.00	57	0	N.D.	
64) Tetrachloroethene	0.00	166	0	N.D.	
65) Chlorobenzene	21.76	112	122	N.D.	
66) Ethylbenzene	22.23	91	124	N.D.	
67) m- & p-Xylenes	22.46	91	799	N.D.	
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	22.91	104	399	N.D.	
70) o-Xylene	23.06	91	52	N.D.	
71) n-Nonane	23.31	43	251	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	23.79	105	245	N.D.	
75) alpha-Pinene	0.00	93	0	N.D.	
76) n-Propylbenzene	24.41	91	1153	N.D.	
77) 3-Ethyltoluene	24.53	105	477	N.D.	
78) 4-Ethyltoluene	24.58	105	514	N.D.	
79) 1,3,5-Trimethylbenzene	24.68	105	264	N.D.	

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061104.D
Acq On : 6 Oct 2011 11:03 am
Operator : EM/CR
Sample : TO-15 Method Blank (1000ml)
Misc : S25-09271101
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 11:42:22 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

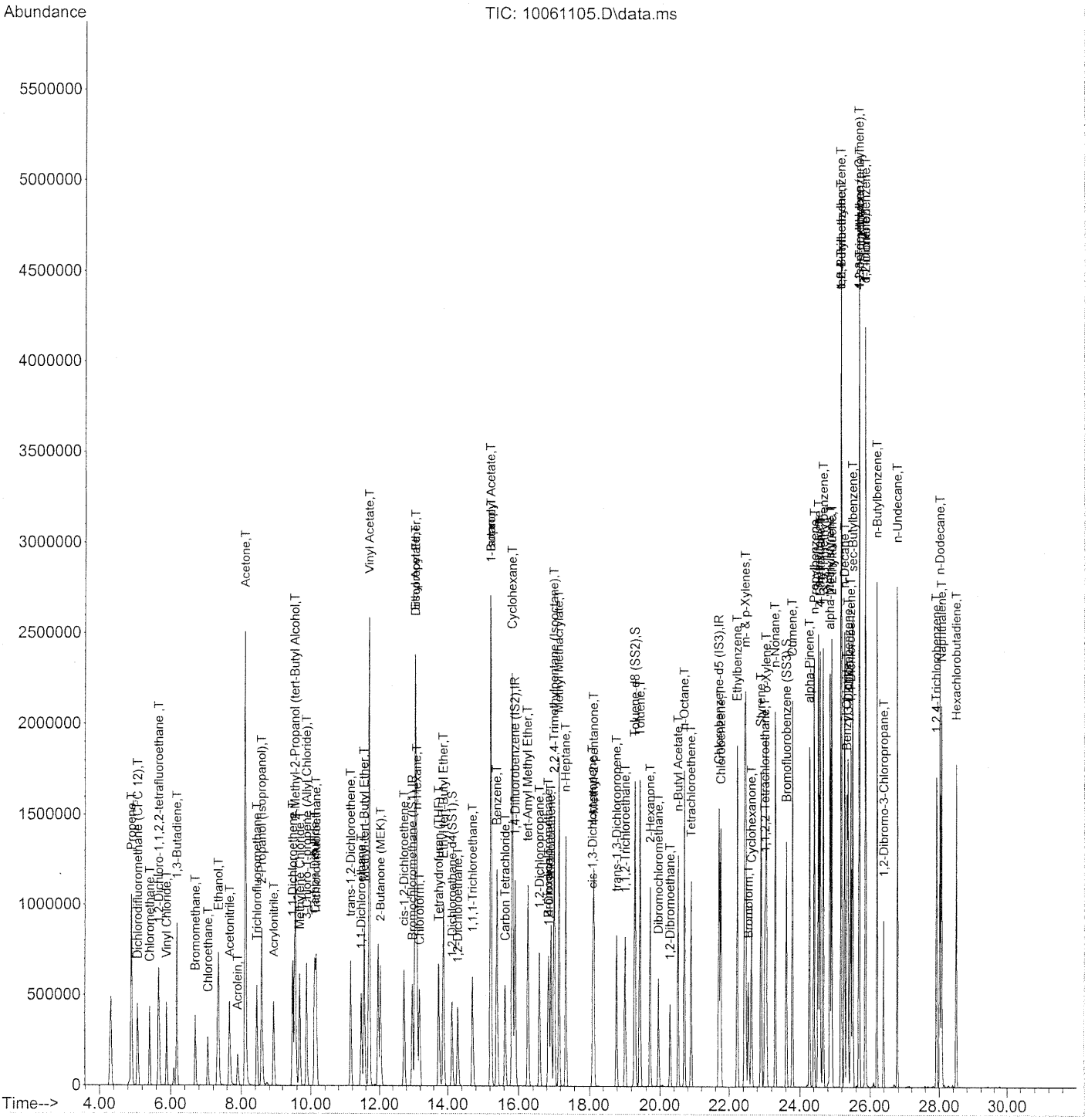
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.86	118	194	N.D.	
81) 2-Ethyltoluene	24.91	105	223	N.D.	
82) 1,2,4-Trimethylbenzene	25.17	105	733	N.D.	
83) n-Decane	25.27	57	202	N.D.	
84) Benzyl Chloride	25.34	91	745	N.D.	
85) 1,3-Dichlorobenzene	25.37	146	771	N.D.	
86) 1,4-Dichlorobenzene	25.45	146	1024	N.D.	
87) sec-Butylbenzene	25.50	105	193	N.D.	
88) 4-Isopropyltoluene (p-...	25.70	119	214	N.D.	
89) 1,2,3-Trimethylbenzene	25.70	105	239	N.D.	
90) 1,2-Dichlorobenzene	25.87	146	561	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	26.77	57	292	N.D.	
94) 1,2,4-Trichlorobenzene	28.39	180	1077	N.D.	
95) Naphthalene	28.07	128	5373	N.D.	
96) n-Dodecane	28.01	57	422	N.D.	
97) Hexachlorobutadiene	0.00	225	0	N.D.	
98) Cyclohexanone	22.65	55	176	N.D.	
99) tert-Butylbenzene	25.17	119	54	N.D.	
100) n-Butylbenzene	26.19	91	561	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061105.D
Acq On : 6 Oct 2011 12:05 pm
Operator : EM/CR
Sample : 25ng TO-15 LCS STD (125ml)
Misc : S25-09271101/S25-09191104
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 06 13:28:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061105.D
Acq On : 6 Oct 2011 12:05 pm
Operator : EM/CR
Sample : 25ng TO-15 LCS STD (125ml)
Misc : S25-09271101/S25-09191104
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 06 13:28:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.97	130	302209	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.91	114	1332686	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	640876	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	448002	24.803	ng		-0.02
Spiked Amount 25.000			Recovery =	99.20%			✓
57) Toluene-d8 (SS2)	19.30	98	1486902	24.964	ng		-0.01
Spiked Amount 25.000			Recovery =	99.84%			✓
73) Bromofluorobenzene (SS3)	23.62	174	534518	25.437	ng		0.00
Spiked Amount 25.000			Recovery =	101.76%			✓
Target Compounds							Qvalue
2) Propene	4.90	42	600656	24.813	ng		97
3) Dichlorodifluoromethan...	5.07	85	686114	22.937	ng		100
4) Chloromethane	5.41	50	554653	22.114	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	375938	22.771	ng		100
6) Vinyl Chloride	5.89	62	566962	22.051	ng		100
7) 1,3-Butadiene	6.19	54	494940	25.723	ng		96
8) Bromomethane	6.69	94	320476	23.383	ng		98
9) Chloroethane	7.05	64	304513	22.504	ng		100
10) Ethanol	7.35	45	1437216	102.741	ng		99
11) Acetonitrile	7.67	41	772023	23.769	ng		99
12) Acrolein	7.90	56	224750	21.239	ng		99
13) Acetone	8.12	58	1451617	108.457	ng		96
14) Trichlorofluoromethane	8.44	101	601946	22.385	ng		99
15) 2-Propanol (Isopropanol)	8.58	45	1577782	41.932	ng		91
16) Acrylonitrile	8.92	53	537297	24.730	ng		99
17) 1,1-Dichloroethene	9.49	96	372816	25.429	ng		95
18) 2-Methyl-2-Propanol (t...	9.55	59	1981434	48.757	ng		96
19) Methylene Chloride	9.68	84	374824	22.565	ng		83
20) 3-Chloro-1-propene (Al...	9.88	41	672513	25.858	ng		77
21) Trichlorotrifluoroethane	10.15	151	344135	24.590	ng		94
22) Carbon Disulfide	10.11	76	1354048	23.514	ng		99
23) trans-1,2-Dichloroethene	11.16	61	550113	23.290	ng		95
24) 1,1-Dichloroethane	11.46	63	680202	24.240	ng		99
25) Methyl tert-Butyl Ether	11.55	73	1199464	23.644	ng		94
26) Vinyl Acetate	11.70	86	532002	113.019	ng	#	54
27) 2-Butanone (MEK)	12.03	72	281224	24.371	ng	#	57
28) cis-1,2-Dichloroethene	12.73	61	535797	24.495	ng		92
29) Diisopropyl Ether	13.07	87	352448	24.693	ng	#	14
30) Ethyl Acetate	13.06	61	296468	47.394	ng		83
31) n-Hexane	13.11	57	735600	22.804	ng		97

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061105.D
Acq On : 6 Oct 2011 12:05 pm
Operator : EM/CR
Sample : 25ng TO-15 LCS STD (125ml)
Misc : S25-09271101/S25-09191104
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 06 13:28:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.18	83	602806	24.730	ng		100
34) Tetrahydrofuran (THF)	13.74	72	254950	23.770	ng	#	67
35) Ethyl tert-Butyl Ether	13.87	87	506509	23.912	ng	#	85
36) 1,2-Dichloroethane	14.29	62	480423	23.497	ng		98
38) 1,1,1-Trichloroethane	14.71	97	572666	24.093	ng		98
39) Isopropyl Acetate	15.23	61	520797	50.197	ng		96
40) 1-Butanol	15.23	56	866738	44.674	ng		99
41) Benzene	15.40	78	1530032	24.428	ng		100
42) Carbon Tetrachloride	15.63	117	488520	25.173	ng		100
43) Cyclohexane	15.84	84	1259716	46.312	ng		89
44) tert-Amyl Methyl Ether	16.26	73	1181055	24.445	ng		98
45) 1,2-Dichloropropane	16.59	63	399097	23.929	ng		98
46) Bromodichloromethane	16.84	83	486412	24.718	ng		99
47) Trichloroethene	16.92	130	429617	23.706	ng		99
48) 1,4-Dioxane	16.86	88	319940	24.609	ng		90
49) 2,2,4-Trimethylpentane...	17.02	57	1795809	23.259	ng		91
50) Methyl Methacrylate	17.16	100	366573	49.419	ng		96
51) n-Heptane	17.36	71	437981	23.564	ng		91
52) cis-1,3-Dichloropropene	18.09	75	611362	22.965	ng		99
53) 4-Methyl-2-pentanone	18.13	58	395739	24.832	ng		90
54) trans-1,3-Dichloropropene	18.78	75	625107	26.204	ng		100
55) 1,1,2-Trichloroethane	19.03	97	363012	23.975	ng		100
58) Toluene	19.43	91	1624727	23.583	ng		100
59) 2-Hexanone	19.71	43	976843	25.471	ng		95
60) Dibromochloromethane	19.96	129	429585	25.472	ng		99
61) 1,2-Dibromoethane	20.29	107	414752	24.283	ng		100
62) n-Butyl Acetate	20.52	43	1165850	25.978	ng		96
63) n-Octane	20.70	57	380142	24.312	ng		86
64) Tetrachloroethene	20.90	166	472283	21.944	ng		100
65) Chlorobenzene	21.76	112	1041894	23.309	ng		99
66) Ethylbenzene	22.23	91	1767990	23.438	ng		99
67) m- & p-Xylenes	22.46	91	2799503	46.659	ng		92
68) Bromoform	22.56	173	380739	24.350	ng		99
69) Styrene	22.91	104	1131112	24.092	ng		95
70) o-Xylene	23.06	91	1431850	22.664	ng		94
71) n-Nonane	23.31	43	940229	22.815	ng		88
72) 1,1,2,2-Tetrachloroethane	23.02	83	634788	22.652	ng		99
74) Cumene	23.79	105	1794983	22.221	ng		99
75) alpha-Pinene	24.28	93	915577	22.453	ng		92
76) n-Propylbenzene	24.41	91	2226166	22.991	ng		98
77) 3-Ethyltoluene	24.53	105	1885476	23.633	ng		97
78) 4-Ethyltoluene	24.58	105	1796937	23.052	ng		98
79) 1,3,5-Trimethylbenzene	24.68	105	1550126	23.805	ng		92

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061105.D
Acq On : 6 Oct 2011 12:05 pm
Operator : EM/CR
Sample : 25ng TO-15 LCS STD (125ml)
Misc : S25-09271101/S25-09191104
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 06 13:28:48 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.86	118	859269	23.623	ng	98
81) 2-Ethyltoluene	24.92	105	1828639	22.701	ng	98
82) 1,2,4-Trimethylbenzene	25.18	105	1589763	23.883	ng	89
83) n-Decane	25.27	57	939316	22.912	ng	94
84) Benzyl Chloride	25.34	91	1280561	23.171	ng	97
85) 1,3-Dichlorobenzene	25.38	146	908265	22.751	ng	99
86) 1,4-Dichlorobenzene	25.45	146	916411	22.308	ng	98
87) sec-Butylbenzene	25.51	105	2065231	24.169	ng	97
88) 4-Isopropyltoluene (p-...	25.69	119	2009809	22.800	ng	90
89) 1,2,3-Trimethylbenzene	25.70	105	1592560	23.568	ng	89
90) 1,2-Dichlorobenzene	25.87	146	861474	22.205	ng	100
91) d-Limonene	25.87	68	661321	25.024	ng	96
92) 1,2-Dibromo-3-Chloropr...	26.39	157	317792	23.623	ng	83
93) n-Undecane	26.77	57	961860	23.974	ng	94
94) 1,2,4-Trichlorobenzene	27.92	180	668356	22.741	ng	100
95) Naphthalene	28.07	128	1941890	19.814	ng	100
96) n-Dodecane	28.02	57	883725	24.012	ng	93
97) Hexachlorobutadiene	28.49	225	435440	23.343	ng	98
98) Cyclohexanone	22.64	55	547351	21.746	ng	93
99) tert-Butylbenzene	25.18	119	1612097	23.844	ng	97
100) n-Butylbenzene	26.19	91	1652741	24.206	ng	98

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

Response Factor Report MS08

Method Path : J:\MS08\Methods\
Method File : R8090711.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Wed Sep 07 11:39:19 2011
Response Via : Initial Calibration

Calibration Files
0.1 =09071102.D 0.2 =09071103.D 0.5 =09071104.D 1.0 =09071105.D 5.0 =09071106.D 25 =09071107.D
50 =09071108.D 100 =09071109.D

		Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane...	----------	----------	ISTD	----------	----------	----------	----------	----------		
2)	T	Propene	1.903	1.687	2.103	2.302	1.825	2.307	2.064	1.830	2.003	11.44
3)	T	Dichlorodifluo...	2.670	2.587	2.533	2.543	2.754	2.360	2.212	2.138	2.475	8.80
4)	T	Chloromethane	2.614	2.326	2.149	1.887	2.463	2.029	1.752	1.379	2.075	19.40
5)	T	1,2-Dichloro-1...	1.568	1.426	1.405	1.332	1.458	1.288	1.231	1.218	1.366	8.82
6)	T	Vinyl Chloride	2.361	2.253	2.199	2.172	2.304	2.008	1.897	1.822	2.127	9.22
7)	T	1,3-Butadiene	1.701	1.476	1.554	1.527	1.820	1.626	1.546	1.482	1.592	7.46
8)	T	Bromomethane	1.313	1.166	1.108	1.054	1.221	1.095	1.071	1.042	1.134	8.30
9)	T	Chloroethane	1.282	1.155	1.143	1.125	1.195	1.051	1.016	0.987	1.119	8.73
10)	T	Ethanol	1.456	1.196	1.120	1.093	1.237	1.116	1.047	0.992	1.157	12.37
11)	T	Acetonitrile	3.164	2.704	2.742	2.688	2.840	2.629	2.429	2.299	2.687	9.70
12)	T	Acrolein	1.168	0.909	0.935	0.842	0.872	0.801	0.754	0.721	0.875	15.87
13)	T	Acetone	1.498	1.240	1.142	1.086	1.113	0.982	0.924	0.872	1.107	17.95
14)	T	Trichlorofluor...	2.471	2.317	2.287	2.124	2.440	2.119	2.045	1.994	2.225	8.08
15)	T	2-Propanol (Is...			3.402	2.804	4.738	2.724	2.523	2.485	3.113	27.69
16)	T	Acrylonitrile	2.002	1.787	1.817	1.752	1.937	1.789	1.686	1.609	1.797	7.04
17)	T	1,1-Dichloroet...	1.363	1.213	1.194	1.164	1.346	1.178	1.136	1.108	1.213	7.71
18)	T	2-Methyl-2-Pro...	3.875	3.500	3.605	3.542	4.106	3.559	1.346		3.362	27.23
19)	T	Methylene Chlo...			1.771	1.510	1.415	1.229	1.176	1.144	1.374	17.56
20)	T	3-Chloro-1-pro...	2.094	1.971	2.083	2.105	2.527	2.300	2.133	1.998	2.151	8.41
21)	T	Trichlorotrifl...	1.314	1.220	1.197	1.101	1.240	1.101	1.071	1.016	1.158	8.68
22)	T	Carbon Disulfide			5.397	4.954	5.183	4.554	4.333	4.160	4.764	10.31
23)	T	trans-1,2-Dich...	2.104	1.990	1.979	1.953	2.167	1.913	1.807	1.719	1.954	7.44
24)	T	1,1-Dichloroet...	2.377	2.394	2.365	2.277	2.597	2.305	2.178	2.078	2.321	6.68
25)	T	Methyl tert-Bu...	4.627	4.197	4.186	4.057	4.624	4.143	3.944	3.795	4.197	7.07
26)	T	Vinyl Acetate	0.393	0.389	0.395	0.382	0.414	0.390	0.379	0.373	0.389	3.21
27)	T	2-Butanone (MEK)	1.091	1.019	1.011	1.005	1.044	0.930	0.888	0.648	0.955	14.59
28)	T	cis-1,2-Dichlo...	1.943	1.791	1.858	1.801	2.025	1.783	1.676	1.599	1.810	7.53
29)	T	Diisopropyl Ether	1.182	1.170	1.221	1.169	1.305	1.166	1.128	1.106	1.181	5.15
30)	T	Ethyl Acetate	0.546	0.514	0.525	0.501	0.579	0.517	0.491	0.466	0.517	6.66
31)	T	n-Hexane	2.958	2.755	2.728	2.638	2.930	2.580	2.443	2.316	2.669	8.35

Method Path : J:\MS08\Methods\
Method File : R8090711.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

32)	T	Chloroform	2.253	1.978	2.012	1.923	2.234	1.976	1.901	1.855	2.016	7.36
33)	S	1,2-Dichloroet...	1.478	1.493	1.493	1.515	1.558	1.511	1.466	1.441	1.494	2.35
34)	T	Tetrahydrofura...	0.918	0.949	0.924	0.876	1.016	0.850	0.795	0.771	0.887	9.17
35)	T	Ethyl tert-But...	1.874	1.690	1.751	1.716	1.939	1.730	1.679	1.639	1.752	5.85
36)	T	1,2-Dichloroet...	1.906	1.715	1.702	1.671	1.928	1.634	1.524	1.451	1.691	9.81
37)	IR	1,4-Difluorobenzen...	----------ISTD----------									
38)	T	1,1,1-Trichlor...	0.498	0.458	0.439	0.433	0.487	0.432	0.415	0.405	0.446	7.41
39)	T	Isopropyl Acetate	0.213	0.189	0.199	0.191	0.218	0.192	0.181	0.174	0.195	7.82
40)	T	1-Butanol	0.483	0.381	0.340	0.336	0.383	0.346	0.330	0.312	0.364	14.81
41)	T	Benzene	1.380	1.218	1.198	1.135	1.276	1.109	1.061	1.022	1.175	10.02
42)	T	Carbon Tetrach...	0.382	0.365	0.355	0.354	0.405	0.359	0.349	0.343	0.364	5.61
43)	T	Cyclohexane	0.574	0.532	0.526	0.489	0.553	0.486	0.468	0.454	0.510	8.29
44)	T	tert-Amyl Meth...	0.972	0.909	0.899	0.889	1.018	0.894	0.850	0.819	0.906	7.00
45)	T	1,2-Dichloropr...	0.347	0.313	0.319	0.311	0.347	0.305	0.287	0.274	0.313	8.18
46)	T	Bromodichlorom...	0.386	0.365	0.364	0.354	0.417	0.368	0.355	0.345	0.369	6.12
47)	T	Trichloroethene	0.364	0.350	0.358	0.324	0.367	0.324	0.317	0.315	0.340	6.48
48)	T	1,4-Dioxane	0.266	0.244	0.237	0.237	0.273	0.242	0.234	0.217	0.244	7.34
49)	T	2,2,4-Trimethy...	1.617	1.471	1.471	1.422	1.634	1.411	1.321	1.240	1.448	9.26
50)	T	Methyl Methacr...	0.142	0.142	0.133	0.134	0.154	0.138	0.135	0.135	0.139	4.98
51)	T	n-Heptane	0.395	0.345	0.355	0.334	0.388	0.339	0.322	0.311	0.349	8.52
52)	T	cis-1,3-Dichlo...	0.550	0.519	0.484	0.480	0.549	0.492	0.470	0.452	0.499	7.26
53)	T	4-Methyl-2-pen...	0.305	0.312	0.292	0.296	0.340	0.298	0.280	0.268	0.299	7.22
54)	T	trans-1,3-Dich...	0.489	0.435	0.436	0.428	0.497	0.451	0.430	0.415	0.448	6.64
55)	T	1,1,2-Trichlor...	0.309	0.296	0.279	0.273	0.314	0.276	0.266	0.259	0.284	7.09
56)	IR	Chlorobenzene-d5 (...	----------ISTD----------									
57)	S	Toluene-d8 (SS2)	2.361	2.340	2.311	2.306	2.300	2.324	2.325	2.320	2.323	0.85
58)	T	Toluene	3.180	2.832	2.675	2.542	2.854	2.565	2.469	2.382	2.687	9.63
59)	T	2-Hexanone	1.795	1.543	1.453	1.468	1.628	1.457	1.360	1.264	1.496	10.89
60)	T	Dibromochlorom...	0.743	0.644	0.615	0.608	0.709	0.657	0.648	0.639	0.658	7.00
61)	T	1,2-Dibromoethane	0.751	0.666	0.652	0.631	0.712	0.653	0.639	0.625	0.666	6.57
62)	T	n-Butyl Acetate	1.944	1.679	1.687	1.649	1.951	1.779	1.699	1.618	1.751	7.43
63)	T	n-Octane	0.644	0.614	0.623	0.585	0.684	0.608	0.574	0.546	0.610	7.01
64)	T	Tetrachloroethene	0.929	0.907	0.808	0.782	0.887	0.806	0.798	0.798	0.840	6.92
65)	T	Chlorobenzene	2.143	1.882	1.658	1.610	1.835	1.649	1.606	1.565	1.744	11.30
66)	T	Ethylbenzene	3.422	3.011	2.860	2.769	3.181	2.871	2.772	2.655	2.943	8.57
67)	T	m- & p-Xylenes	2.720	2.395	2.293	2.177	2.543	2.273	2.197	2.127	2.341	8.66
68)	T	Bromoform	0.648	0.584	0.549	0.544	0.666	0.629	0.630	0.631	0.610	7.46
69)	T	Styrene	2.171	1.821	1.712	1.674	1.987	1.809	1.761	1.717	1.831	9.16
70)	T	o-Xylene	2.939	2.537	2.407	2.303	2.646	2.375	2.288	2.222	2.465	9.59

Method Path : J:\MS08\Methods\
Method File : R8090711.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

71)	T	n-Nonane	1.779	1.660	1.620	1.578	1.808	1.601	1.468	1.347	1.608	9.43
72)	T	1,1,2,2-Tetrac...	1.209	1.061	1.084	1.029	1.203	1.092	1.052	1.016	1.093	6.77
73)	S	Bromofluoroben...	0.821	0.826	0.812	0.808	0.810	0.804	0.832	0.844	0.820	1.68
74)	T	Cumene	3.936	3.248	3.000	2.941	3.332	3.008	2.928	2.816	3.151	11.43
75)	T	alpha-Pinene	1.741	1.583	1.507	1.534	1.763	1.585	1.529	1.484	1.591	6.63
76)	T	n-Propylbenzene	4.467	3.864	3.716	3.526	4.132	3.702	3.508	3.303	3.777	9.90
77)	T	3-Ethyltoluene	3.720	3.176	3.012	2.887	3.332	3.070	2.898	2.802	3.112	9.61
78)	T	4-Ethyltoluene	3.721	3.051	2.911	2.816	3.251	2.904	2.884	2.789	3.041	10.26
79)	T	1,3,5-Trimethy...	3.159	2.493	2.447	2.334	2.712	2.451	2.395	2.331	2.540	10.93
80)	T	alpha-Methylst...	1.563	1.375	1.310	1.286	1.569	1.446	1.410	1.393	1.419	7.34
81)	T	2-Ethyltoluene	3.741	3.203	3.055	2.925	3.345	3.069	2.950	2.851	3.142	9.20
82)	T	1,2,4-Trimethy...	3.001	2.602	2.501	2.352	2.777	2.564	2.505	2.471	2.597	7.85
83)	T	n-Decane	1.735	1.599	1.599	1.546	1.800	1.603	1.505	1.406	1.599	7.76
84)	T	Benzyl Chloride	2.615	2.017	1.954	1.885	2.290	2.201	2.172	2.111	2.156	10.61
85)	T	1,3-Dichlorobe...	2.100	1.663	1.450	1.370	1.575	1.449	1.432	1.420	1.557	15.33
86)	T	1,4-Dichlorobe...	2.347	1.657	1.493	1.387	1.578	1.475	1.447	1.436	1.602	19.52
87)	T	sec-Butylbenzene	3.973	3.370	3.277	3.082	3.642	3.260	3.111	2.951	3.333	9.97
88)	T	4-Isopropyltol...	3.836	3.419	3.308	3.165	3.707	3.441	3.359	3.276	3.439	6.55
89)	T	1,2,3-Trimethy...	2.944	2.638	2.528	2.418	2.841	2.623	2.567	2.529	2.636	6.61
90)	T	1,2-Dichlorobe...	1.944	1.569	1.421	1.326	1.560	1.438	1.417	1.432	1.513	12.64
91)	T	d-Limonene	1.019	1.035	0.955	0.974	1.182	1.087	1.030	0.965	1.031	7.27
92)	T	1,2-Dibromo-3-...	0.592	0.477	0.478	0.484	0.569	0.545	0.534	0.519	0.525	8.28
93)	T	n-Undecane	1.652	1.521	1.536	1.510	1.809	1.612	1.503	1.377	1.565	8.15
94)	T	1,2,4-Trichlor...		1.215	1.125	1.037	1.199	1.158	1.154	1.138	1.146	5.07
95)	T	Naphthalene		4.125	3.652	3.360	4.104	3.927	3.872	3.724	3.823	7.06
96)	T	n-Dodecane	1.393	1.260	1.309	1.228	1.768	1.601	1.532	1.395	1.436	12.92
97)	T	Hexachlorobuta...	0.852	0.741	0.664	0.666	0.774	0.716	0.705	0.703	0.728	8.51
98)	T	Cyclohexanone	1.028	0.979	0.963	0.947	1.099	0.996	0.946	0.896	0.982	6.25
99)	T	tert-Butylbenzene	3.108	2.767	2.534	2.362	2.804	2.550	2.494	2.480	2.637	9.12
100)	T	n-Butylbenzene	3.156	2.639	2.642	2.483	2.888	2.631	2.499	2.370	2.664	9.43

(#) = Out of Range

CEm 9/8/11

Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: S25-09021104
20ng/L Std. ID:
200ng/L Std. ID: S25-09021104
Dilution Factors: 5 50 250

					Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source)							
						4	4	4	4	200	200	200	200
	Source Std.	Primary Working Standards			Injection (L):	0.025	0.05	0.125	0.250	0.025	0.125	0.25	0.50
Compounds	mg/m³	200ng/L	20ng/L	4ng/L	ICAL Points:	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng
Propene	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
Dichlorodifluoromethane	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
Chloromethane	0.96	192	19.2	3.84		0.096	0.192	0.480	0.960	4.80	24.0	48.0	96.0
Freon-114	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Vinyl Chloride	0.97	194	19.4	3.88		0.097	0.194	0.485	0.970	4.85	24.3	48.5	97.0
1,3-Butadiene	1.18	236	23.6	4.72		0.118	0.236	0.590	1.18	5.90	29.5	59.0	118
Bromomethane	0.97	194	19.4	3.88		0.097	0.194	0.485	0.970	4.85	24.3	48.5	97.0
Chloroethane	0.97	194	19.4	3.88		0.097	0.194	0.485	0.970	4.85	24.3	48.5	97.0
Ethanol	4.56	912	91.2	18.2		0.456	0.912	2.28	4.56	22.8	114	228	456
Acetonitrile	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Acrolein	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Acetone	5.22	1044	104	20.9		0.522	1.044	2.61	5.22	26.1	131	261	522
Trichlorofluoromethane	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
Isopropanol	1.82	364	36.4	7.28		0.182	0.364	0.910	1.82	9.10	45.5	91.0	182
Acrylonitrile	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
1,1-Dichloroethene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
tert-Butanol	2.03	406	40.6	8.12		0.203	0.406	1.02	2.03	10.2	50.8	102	203
Methylene Chloride	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
Allyl Chloride	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Trichlorotrifluoroethane	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
Carbon Disulfide	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
trans-1,2-Dichloroethene	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
1,1-Dichloroethane	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
Methyl tert-Butyl Ether	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
Vinyl Acetate	4.76	952	95.2	19.0		0.476	0.952	2.38	4.76	23.8	119	238	476
2-Butanone	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
cis-1,2-Dichloroethene	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
Diisopropyl Ether	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Ethyl Acetate	2.06	412	41.2	8.24		0.206	0.412	1.03	2.06	10.3	51.5	103	206
n-Hexane	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Chloroform	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
Tetrahydrofuran	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Ethyl tert-Butyl Ether	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
1,2-Dichloroethane	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
1,1,1-Trichloroethane	1.00	200	20.0	4.00		0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
Isopropyl Acetate	2.09	418	41.8	8.36		0.209	0.418	1.05	2.09	10.5	52.3	105	209
1-Butanol	1.97	394	39.4	7.88		0.197	0.394	0.985	1.97	9.85	49.3	98.5	197
Benzene	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Carbon Tetrachloride	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Cyclohexane	2.02	404	40.4	8.08		0.202	0.404	1.01	2.02	10.1	50.5	101	202
tert-Amyl Methyl Ether	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
1,2-Dichloropropane	1.00	200	20.0	4.00		0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
Bromodichloromethane	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
Trichloroethene	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
1,4-Dioxane	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
Isooctane	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
Methyl Methacrylate	2.03	406	40.6	8.12		0.203	0.406	1.02	2.03	10.2	50.8	102	203
n-Heptane	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
cis-1,3-Dichloropropene	0.95	190	19.0	3.80		0.095	0.190	0.475	0.950	4.75	23.8	47.5	95.0
4-Methyl-2-pentanone	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
trans-1,3-Dichloropropene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,1,2-Trichloroethane	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
Toluene	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
2-Hexanone	1.16	232	23.2	4.64		0.116	0.232	0.580	1.16	5.80	29.0	58.0	116
Dibromochloromethane	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
1,2-Dibromoethane	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
n-Butyl Acetate	1.14	228	22.8	4.56		0.114	0.228	0.570	1.14	5.70	28.5	57.0	114
n-Octane	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Tetrachloroethene	0.93	186	18.6	3.72		0.093	0.186	0.465	0.930	4.65	23.3	46.5	93.0
Chlorobenzene	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Ethylbenzene	1.00	200	20.0	4.00		0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
m-&p-Xylene	1.98	396	39.6	7.92		0.198	0.396	0.990	1.98	9.90	49.5	99.0	198

Em 9/8/11

Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: S25-09021104
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	Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source) 4	4	4	4	200	200	200	200
					Injection (L):	0.025	0.050	0.125	0.25	0.025	0.125	0.25	0.50
					ICAL Points:	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng
Bromoform	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
Styrene	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
o-Xylene	0.98	196	19.6	3.92		0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0
n-Nonane	1.00	200	20.0	4.00		0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
1,1,2,2-Tetrachloroethane	0.95	190	19.0	3.80		0.095	0.190	0.475	0.950	4.75	23.8	47.5	95.0
Cumene	0.97	194	19.4	3.88		0.097	0.194	0.485	0.970	4.85	24.3	48.5	97.0
alpha-Pinene	0.95	190	19.0	3.80		0.095	0.190	0.475	0.950	4.75	23.8	47.5	95.0
n-Propylbenzene	0.98	196	19.6	3.92		0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0
3-Ethyltoluene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
4-Ethyltoluene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,3,5-Trimethylbenzene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
alpha-Methylstyrene	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
2-Ethyltoluene	1.00	200	20.0	4.00		0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
1,2,4-Trimethylbenzene	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
n-Decane	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
Benzyl Chloride	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,3-Dichlorobenzene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,4-Dichlorobenzene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
sec-Butylbenzene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
p-Isopropyltoluene	0.98	196	19.6	3.92		0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0
1,2,3-Trimethylbenzene	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
1,2-Dichlorobenzene	1.00	200	20.0	4.00		0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
d-Limonene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,2-Dibromo-3-chloropropane	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
n-Undecane	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,2,4-Trichlorobenzene	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Naphthalene	0.91	182	18.2	3.64		0.091	0.182	0.455	0.910	4.55	22.8	45.5	91.0
n-Dodecane	0.98	196	19.6	3.92		0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0
Hexachloro-1,3-butadiene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
Methacrylonitrile	1.00	200	20.0	4.00		0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
Cyclohexanone	0.92	184	18.4	3.68		0.092	0.184	0.460	0.920	4.60	23.0	46.0	92.0
tert-Butylbenzene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
n-Butylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106

*Enter Information in the Solid Shaded Areas ONLY.

Em 9/8/11

Calibration Status Report MS08

Method : J:\MS08\Methods\R8090711.M (RTE Integrator)
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Wed Sep 07 11:39:19 2011
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS08\Data\2011_09\07\09071102.D
2	0.2	0	25	J:\MS08\Data\2011_09\07\09071103.D
3	0.5	1	25	J:\MS08\Data\2011_09\07\09071104.D
4	1.0	1	25	J:\MS08\Data\2011_09\07\09071105.D
5	5.0	5	25	J:\MS08\Data\2011_09\07\09071106.D
6	25	25	25	J:\MS08\Data\2011_09\07\09071107.D
7	50	51	25	J:\MS08\Data\2011_09\07\09071108.D
8	100	101	25	J:\MS08\Data\2011_09\07\09071109.D

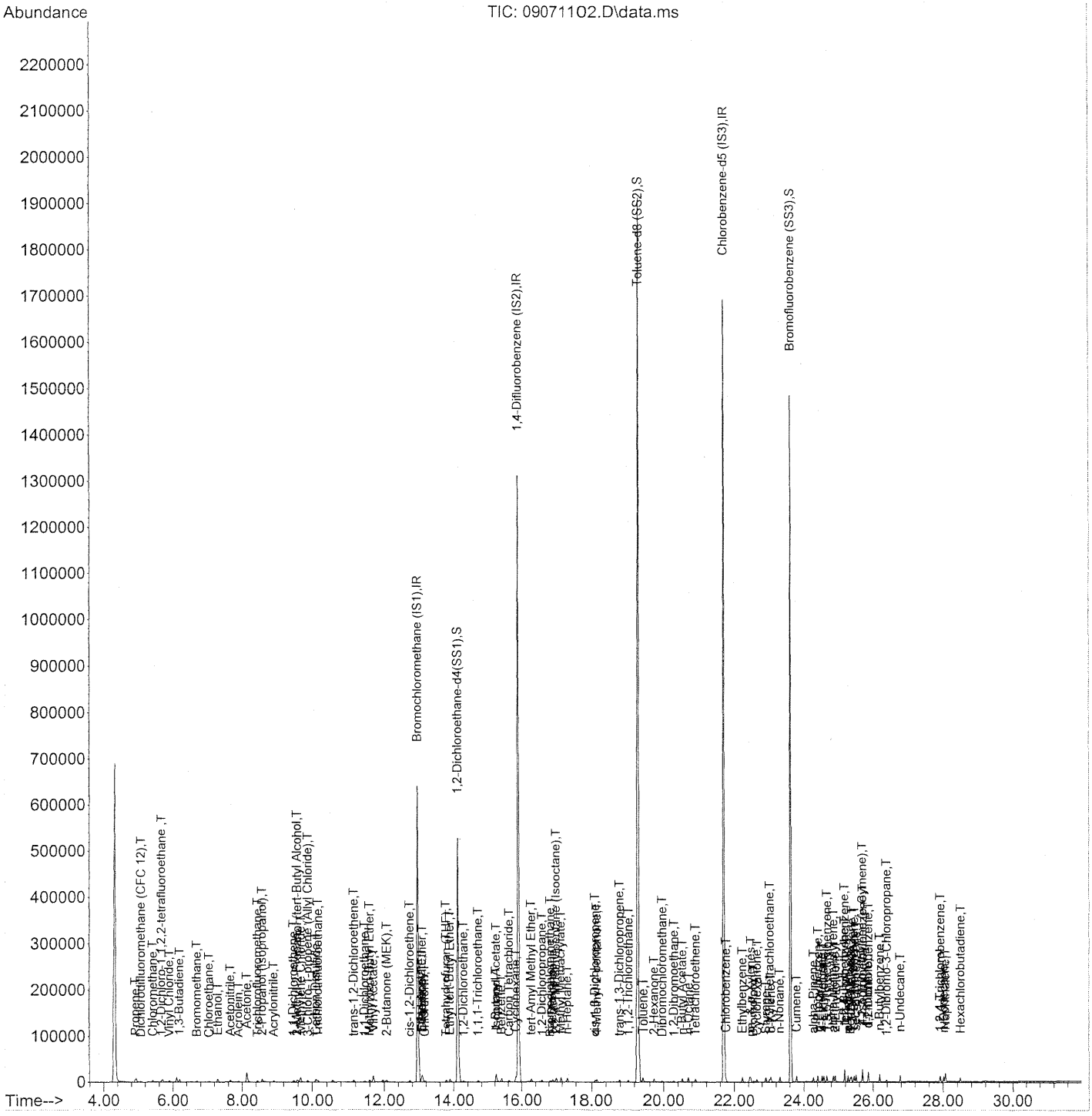
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Sep 07 11:38 2011	Sep 07 09:03 2011	7 Sep 2011 5:59
2	0.2	Sep 07 11:38 2011	Sep 07 11:17 2011	7 Sep 2011 6:42
3	0.5	Sep 07 11:38 2011	Sep 07 09:03 2011	7 Sep 2011 7:24
4	1.0	Sep 07 11:38 2011	Sep 07 11:23 2011	7 Sep 2011 8:07
5	5.0	Sep 07 11:38 2011	Sep 07 11:25 2011	7 Sep 2011 8:49
6	25	Sep 07 11:39 2011	Sep 07 11:27 2011	7 Sep 2011 9:32
7	50	Sep 07 11:39 2011	Sep 07 11:35 2011	7 Sep 2011 10:14
8	100	Sep 07 11:39 2011	Sep 07 11:37 2011	7 Sep 2011 10:57

R8090711.M Wed Sep 07 13:15:29 2011

EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071102.D
Acq On : 7 Sep 2011 5:59
Operator : EM/CR
Sample : 0.1ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:02 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071102.D
Acq On : 7 Sep 2011 5:59
Operator : EM/CR
Sample : 0.1ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:02 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.96	130	346918	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.91	114	1560457	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	718775	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	512729	23.545	ng		-0.02
Spiked Amount 25.000			Recovery = 94.16%				
57) Toluene-d8 (SS2)	19.30	98	1697215	25.813	ng		-0.01
Spiked Amount 25.000			Recovery = 103.24%				
73) Bromofluorobenzene (SS3)	23.62	174	589994	25.700	ng		0.00
Spiked Amount 25.000			Recovery = 102.80%				
Target Compounds							Qvalue
2) Propene	4.92	42	2667	0.087	ng		96
3) Dichlorodifluoromethan...	5.08	85	3668	0.098	ng	#	93
4) Chloromethane	5.42	50	3482	0.109	ng		96
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	2219	0.112	ng		84
6) Vinyl Chloride	5.90	62	3178	0.101	ng		94
7) 1,3-Butadiene	6.19	54	2786	0.121	ng		93
8) Bromomethane	6.69	94	1768	0.109	ng		98
9) Chloroethane	7.05	64	1726	0.106	ng		82
10) Ethanol	7.30	45	9214	0.507	ng		99
11) Acetonitrile	7.66	41	4742	0.109	ng		91
12) Acrolein	7.90	56	1653	0.128	ng		85
13) Acetone	8.14	58	10851	0.664	ng		89
14) Trichlorofluoromethane	8.44	101	3394	0.105	ng		94
15) 2-Propanol (Isopropanol)	8.58	45	11298	0.210	ng		94
16) Acrylonitrile	8.91	53	2973	0.108	ng		99
17) 1,1-Dichloroethene	9.48	96	2024	0.115	ng		99
18) 2-Methyl-2-Propanol (t...	9.58	59	10915	0.218	ng		93
19) Methylene Chloride	9.68	84	5337	0.263	ng		85
20) 3-Chloro-1-propene (Al...	9.88	41	3051	0.090	ng	#	70
21) Trichlorotrifluoroethane	10.16	151	1897	0.115	ng		94
22) Carbon Disulfide	10.10	76	12221	0.172	ng		98
23) trans-1,2-Dichloroethene	11.16	61	2978	0.101	ng		95
24) 1,1-Dichloroethane	11.46	63	3331	0.096	ng		96
25) Methyl tert-Butyl Ether	11.60	73	6614	0.104	ng		94
26) Vinyl Acetate	11.70	86	2594	0.455	ng	#	40
27) 2-Butanone (MEK)	12.07	72	1620	0.116	ng	#	34
28) cis-1,2-Dichloroethene	12.73	61	2804	0.101	ng		99
29) Diisopropyl Ether	13.09	87	1722	0.097	ng	#	1
30) Ethyl Acetate	13.07	61	1562	0.196	ng		85
31) n-Hexane	13.10	57	4187	0.104	ng	#	90

EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071102.D
Acq On : 7 Sep 2011 5:59
Operator : EM/CR
Sample : 0.1ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:02 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.16	83	3251	0.107	ng		90
34) Tetrahydrofuran (THF)	13.78	72	1337	0.099	ng	#	55
35) Ethyl tert-Butyl Ether	13.89	87	2627	0.101	ng	#	82
36) 1,2-Dichloroethane	14.29	62	2672	0.105	ng		87
38) 1,1,1-Trichloroethane	14.70	97	3110	0.105	ng		91
39) Isopropyl Acetate	15.24	61	2782	0.213	ng	#	90
40) 1-Butanol	15.23	56	5941	0.235	ng		98
41) Benzene	15.40	78	9044	0.113	ng		99
42) Carbon Tetrachloride	15.62	117	2528	0.105	ng		100
43) Cyclohexane	15.83	84	7232	0.214	ng		88
44) tert-Amyl Methyl Ether	16.28	73	6190	0.101	ng		97
45) 1,2-Dichloropropane	16.59	63	2163	0.103	ng		94
46) Bromodichloromethane	16.84	83	2480	0.099	ng		95
47) Trichloroethene	16.92	130	2252	0.102	ng		95
48) 1,4-Dioxane	16.90	88	1729	0.107	ng		83
49) 2,2,4-Trimethylpentane...	17.02	57	9993	0.101	ng		90
50) Methyl Methacrylate	17.17	100	1804	0.196	ng		89
51) n-Heptane	17.36	71	2514	0.107	ng		98
52) cis-1,3-Dichloropropene	18.10	75	3261	0.097	ng		97
53) 4-Methyl-2-pentanone	18.14	58	2019	0.100	ng	#	86
54) trans-1,3-Dichloropropene	18.78	75	3233	0.107	ng		95
55) 1,1,2-Trichloroethane	19.03	97	1912	0.102	ng		98
58) Toluene	19.43	91	9327	0.118	ng		98
59) 2-Hexanone	19.73	43	5988	0.128	ng		96
60) Dibromochloromethane	19.96	129	2307	0.119	ng		98
61) 1,2-Dibromoethane	20.29	107	2182	0.110	ng		95
62) n-Butyl Acetate	20.53	43	6372	0.113	ng		98
63) n-Octane	20.71	57	1890	0.099	ng		94
64) Tetrachloroethene	20.90	166	2484	0.102	ng		99
65) Chlorobenzene	21.76	112	6285	0.124	ng		98
66) Ethylbenzene	22.23	91	9838	0.112	ng		97
67) m- & p-Xylenes	22.47	91	15483	0.222	ng		92
68) Bromoform	22.55	173	1882	0.104	ng		96
69) Styrene	22.91	104	6367	0.117	ng		96
70) o-Xylene	23.06	91	8282	0.113	ng		98
71) n-Nonane	23.31	43	5116	0.100	ng		85
72) 1,1,2,2-Tetrachloroethane	23.02	83	3302	0.100	ng		96
74) Cumene	23.79	105	10978	0.116	ng		98
75) alpha-Pinene	24.28	93	4754	0.100	ng		88
76) n-Propylbenzene	24.41	91	12586	0.111	ng		97
77) 3-Ethyltoluene	24.53	105	11016	0.117	ng		98
78) 4-Ethyltoluene	24.58	105	11019	0.121	ng		100
79) 1,3,5-Trimethylbenzene	24.68	105	9356	0.122	ng		99

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071102.D
Acq On : 7 Sep 2011 5:59
Operator : EM/CR
Sample : 0.1ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:02 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

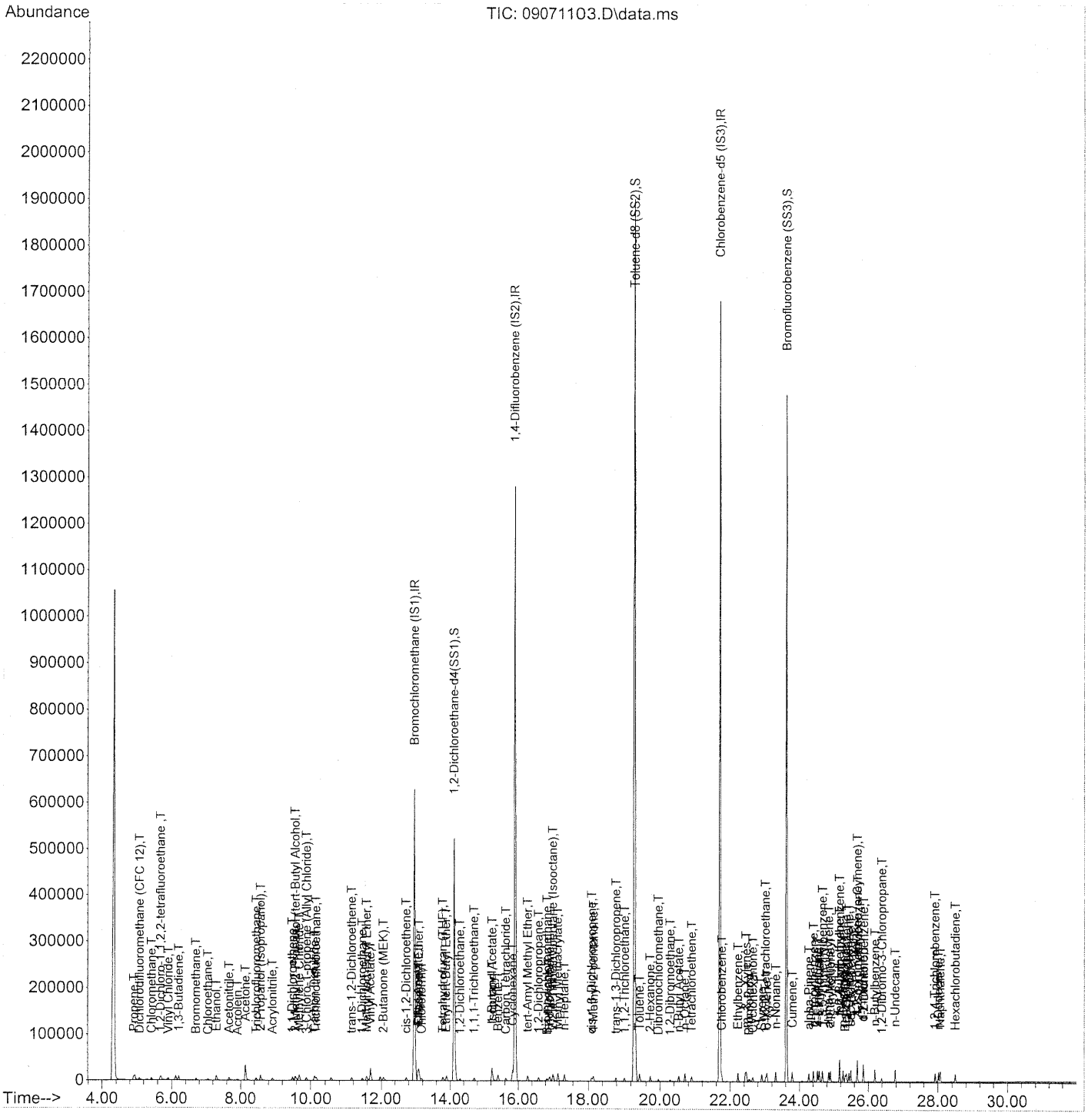
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.86	118	4538	0.105	ng	98
81) 2-Ethyltoluene	24.91	105	10755	0.116	ng	99
82) 1,2,4-Trimethylbenzene	25.18	105	8802	0.114	ng	89
83) n-Decane	25.27	57	4938	0.100	ng	94
84) Benzyl Chloride	25.34	91	7744	0.118	ng	98
85) 1,3-Dichlorobenzene	25.38	146	6219	0.136	ng	98
86) 1,4-Dichlorobenzene	25.45	146	6951	0.148	ng	94
87) sec-Butylbenzene	25.51	105	11766	0.120	ng	98
88) 4-Isopropyltoluene (p-...	25.69	119	10807	0.104	ng	93
89) 1,2,3-Trimethylbenzene	25.70	105	8634	0.109	ng	91
90) 1,2-Dichlorobenzene	25.87	146	5590	0.126	ng	98
91) d-Limonene	25.87	68	3017	0.096	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.39	157	1720	0.111	ng	80
93) n-Undecane	26.77	57	4892	0.100	ng	91
94) 1,2,4-Trichlorobenzene	27.92	180	5456	0.160	ng	98
95) Naphthalene	28.07	128	17300	0.150	ng	97
96) n-Dodecane	28.02	57	3924	0.082	ng	94
97) Hexachlorobutadiene	28.49	225	2523	0.121	ng	98
98) Cyclohexanone	22.65	55	2720	0.089	ng	95
99) tert-Butylbenzene	25.18	119	9203	0.120	ng	95
100) n-Butylbenzene	26.19	91	9619	0.121	ng	98

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071103.D
Acq On : 7 Sep 2011 6:42
Operator : EM/CR
Sample : 0.2ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 11:17:08 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071103.D
Acq On : 7 Sep 2011 6:42
Operator : EM/CR
Sample : 0.2ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 11:17:08 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.97	130	339070	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.91	114	1514647	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	712571	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	506095	23.778	ng		-0.02
Spiked Amount 25.000			Recovery = 95.12%				
57) Toluene-d8 (SS2)	19.30	98	1667248	25.578	ng		-0.01
Spiked Amount 25.000			Recovery = 102.32%				
73) Bromofluorobenzene (SS3)	23.62	174	588795	25.871	ng		0.00
Spiked Amount 25.000			Recovery = 103.48%				
Target Compounds							Qvalue
2) Propene	4.92	42	4621	0.155	ng		94
3) Dichlorodifluoromethan...	5.09	85	6946	0.189	ng		96
4) Chloromethane	5.42	50	6056	0.194	ng		100
5) 1,2-Dichloro-1,1,2,2-t...	5.68	135	3946	0.203	ng		95
6) Vinyl Chloride	5.91	62	5929	0.192	ng		98
7) 1,3-Butadiene	6.20	54	4726	0.210	ng		88
8) Bromomethane	6.70	94	3067	0.193	ng		97
9) Chloroethane	7.05	64	3038	0.190	ng		100
10) Ethanol	7.30	45	14788	0.832	ng		99
11) Acetonitrile	7.67	41	7921m	0.186	ng		
12) Acrolein	7.91	56	2514	0.199	ng		93
13) Acetone	8.14	58	17552	1.099	ng		95
14) Trichlorofluoromethane	8.45	101	6221	0.196	ng		94
15) 2-Propanol (Isopropanol)	8.58	45	20214	0.385	ng		92
16) Acrylonitrile	8.92	53	5186	0.193	ng		98
17) 1,1-Dichloroethene	9.49	96	3521	0.205	ng		88
18) 2-Methyl-2-Propanol (t...	9.57	59	19273	0.394	ng		94
19) Methylene Chloride	9.67	84	7193	0.362	ng		85
20) 3-Chloro-1-propene (Al...	9.89	41	5615	0.170	ng		74
21) Trichlorotrifluoroethane	10.15	151	3441	0.214	ng		94
22) Carbon Disulfide	10.11	76	18377	0.264	ng		95
23) trans-1,2-Dichloroethene	11.16	61	5505	0.191	ng		97
24) 1,1-Dichloroethane	11.46	63	6559	0.193	ng		94
25) Methyl tert-Butyl Ether	11.59	73	11725	0.189	ng		98
26) Vinyl Acetate	11.70	86	5017	0.900	ng	#	49
27) 2-Butanone (MEK)	12.06	72	2958	0.217	ng	#	42
28) cis-1,2-Dichloroethene	12.73	61	5052	0.186	ng		96
29) Diisopropyl Ether	13.09	87	3331	0.192	ng	#	1
30) Ethyl Acetate	13.07	61	2871	0.369	ng		86
31) n-Hexane	13.11	57	7622	0.194	ng	#	96

EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071103.D
Acq On : 7 Sep 2011 6:42
Operator : EM/CR
Sample : 0.2ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 11:17:08 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.17	83	5581	0.189	ng		99
34) Tetrahydrofuran (THF)	13.78	72	2703	0.204	ng	#	65
35) Ethyl tert-Butyl Ether	13.89	87	4631	0.181	ng	#	75
36) 1,2-Dichloroethane	14.30	62	4698	0.189	ng		95
38) 1,1,1-Trichloroethane	14.71	97	5546	0.192	ng		96
39) Isopropyl Acetate	15.24	61	4782	0.376	ng	#	82
40) 1-Butanol	15.23	56	9097	0.371	ng		100
41) Benzene	15.41	78	15495	0.200	ng		100
42) Carbon Tetrachloride	15.63	117	4687	0.201	ng		100
43) Cyclohexane	15.84	84	13018	0.396	ng		94
44) tert-Amyl Methyl Ether	16.28	73	11231	0.189	ng		96
45) 1,2-Dichloropropane	16.59	63	3787	0.185	ng		99
46) Bromodichloromethane	16.85	83	4556	0.188	ng		98
47) Trichloroethene	16.93	130	4200	0.196	ng		96
48) 1,4-Dioxane	16.89	88	3075	0.196	ng		85
49) 2,2,4-Trimethylpentane...	17.02	57	17644	0.184	ng		92
50) Methyl Methacrylate	17.17	100	3488	0.390	ng		98
51) n-Heptane	17.36	71	4266	0.188	ng		92
52) cis-1,3-Dichloropropene	18.10	75	5974	0.183	ng		96
53) 4-Methyl-2-pentanone	18.15	58	4002	0.205	ng	#	94
54) trans-1,3-Dichloropropene	18.78	75	5588	0.190	ng		99
55) 1,1,2-Trichloroethane	19.03	97	3545	0.195	ng		97
58) Toluene	19.42	91	16467	0.210	ng		97
59) 2-Hexanone	19.72	43	10201	0.220	ng		93
60) Dibromochloromethane	19.96	129	3967	0.207	ng		99
61) 1,2-Dibromoethane	20.29	107	3836	0.195	ng		100
62) n-Butyl Acetate	20.53	43	10912	0.195	ng		98
63) n-Octane	20.70	57	3573	0.189	ng		87
64) Tetrachloroethene	20.90	166	4808	0.198	ng		97
65) Chlorobenzene	21.76	112	10941	0.218	ng		94
66) Ethylbenzene	22.23	91	17165	0.197	ng		98
67) m- & p-Xylenes	22.46	91	27036	0.391	ng	#	29
68) Bromoform	22.54	173	3360	0.187	ng		96
69) Styrene	22.91	104	10590	0.196	ng		96
70) o-Xylene	23.06	91	14172	0.194	ng		95
71) n-Nonane	23.31	43	9463	0.187	ng		85
72) 1,1,2,2-Tetrachloroethane	23.02	83	5745	0.176	ng		99
74) Cumene	23.79	105	17961	0.191	ng		97
75) alpha-Pinene	24.28	93	8572	0.182	ng		94
76) n-Propylbenzene	24.41	91	21589	0.192	ng		98
77) 3-Ethyltoluene	24.53	105	18649	0.200	ng		98
78) 4-Ethyltoluene	24.58	105	17912	0.198	ng		98
79) 1,3,5-Trimethylbenzene	24.68	105	14637	0.193	ng		90

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071103.D
Acq On : 7 Sep 2011 6:42
Operator : EM/CR
Sample : 0.2ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 11:17:08 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

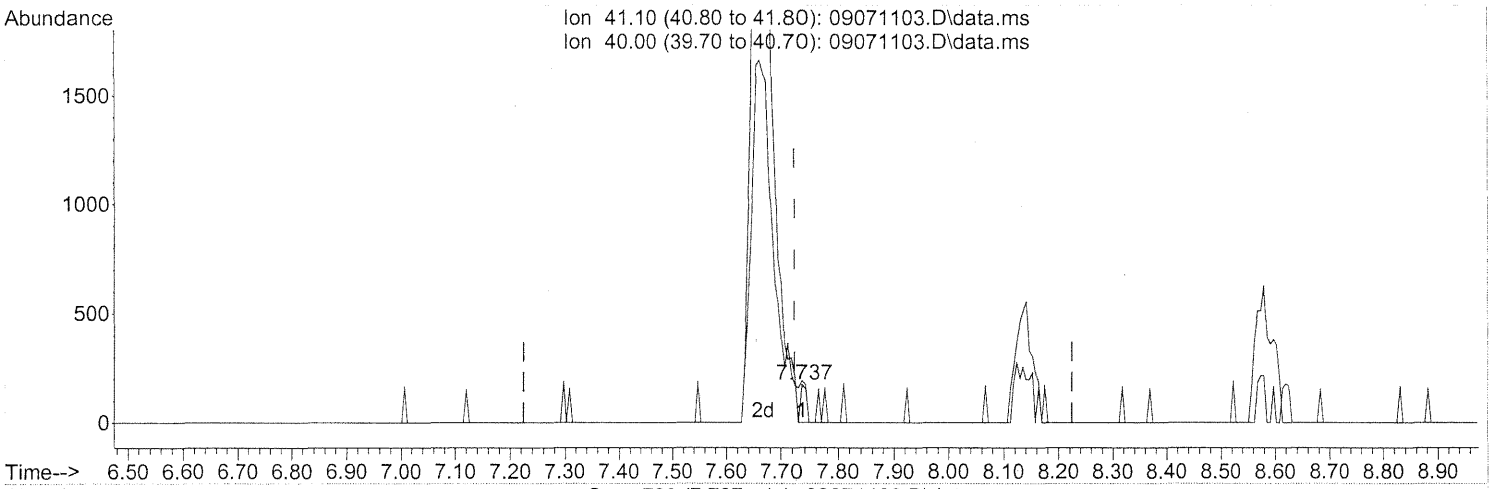
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.86	118	7916	0.184	ng	98
81) 2-Ethyltoluene	24.92	105	18257	0.198	ng	98
82) 1,2,4-Trimethylbenzene	25.18	105	15130	0.198	ng	86
83) n-Decane	25.27	57	9026	0.184	ng	95
84) Benzyl Chloride	25.34	91	11843	0.182	ng	98
85) 1,3-Dichlorobenzene	25.37	146	9762	0.215	ng	99
86) 1,4-Dichlorobenzene	25.45	146	9730	0.209	ng	99
87) sec-Butylbenzene	25.51	105	19785	0.203	ng	99
88) 4-Isopropyltoluene (p-...	25.69	119	19100	0.185	ng	89
89) 1,2,3-Trimethylbenzene	25.70	105	15338	0.194	ng	94
90) 1,2-Dichlorobenzene	25.87	146	8944	0.203	ng	98
91) d-Limonene	25.86	68	6080	0.194	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.39	157	2746	0.179	ng	92
93) n-Undecane	26.77	57	8933	0.184	ng	90
94) 1,2,4-Trichlorobenzene	27.92	180	7062	0.210	ng	96
95) Naphthalene	28.07	128	21398	0.187	ng	99
96) n-Dodecane	28.02	57	7039	0.149	ng	92
97) Hexachlorobutadiene	28.49	225	4352	0.211	ng	98
98) Cyclohexanone	22.65	55	5134	0.169	ng	93
99) tert-Butylbenzene	25.18	119	16246	0.213	ng	100
100) n-Butylbenzene	26.19	91	15949	0.202	ng	97

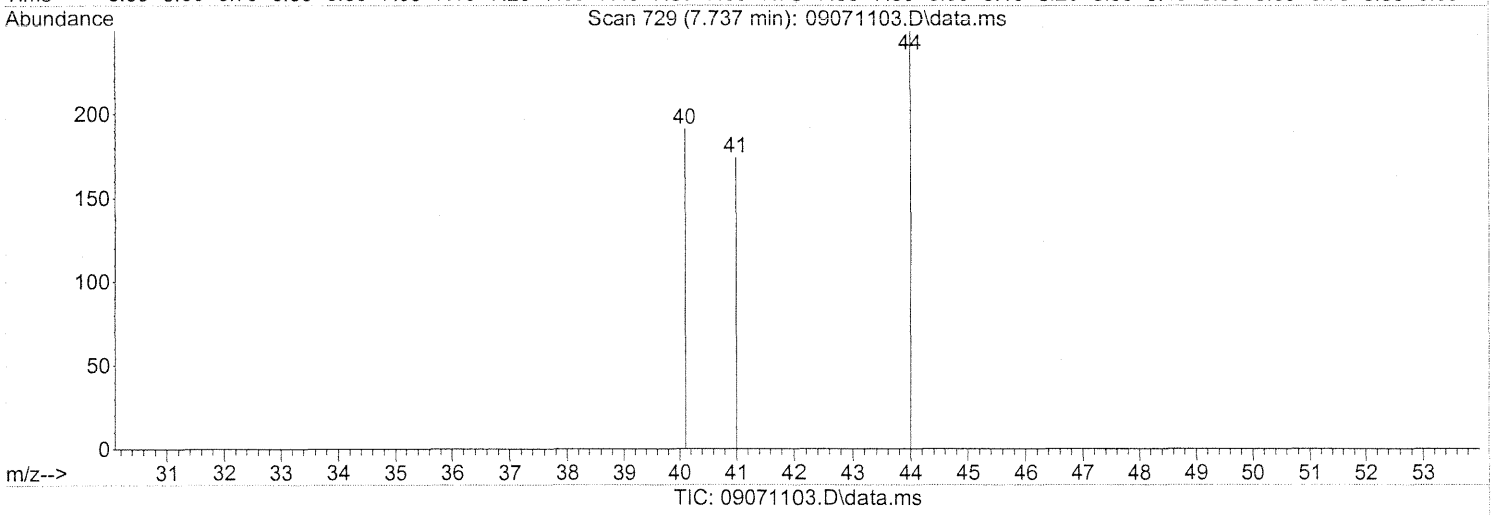
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071103.D
Acq On : 7 Sep 2011 6:42
Operator : EM/CR
Sample : 0.2ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:19 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration





TIC: 09071103.D\data.ms

(11) Acetonitrile (T)

7.737min (+0.012) 0.00ng

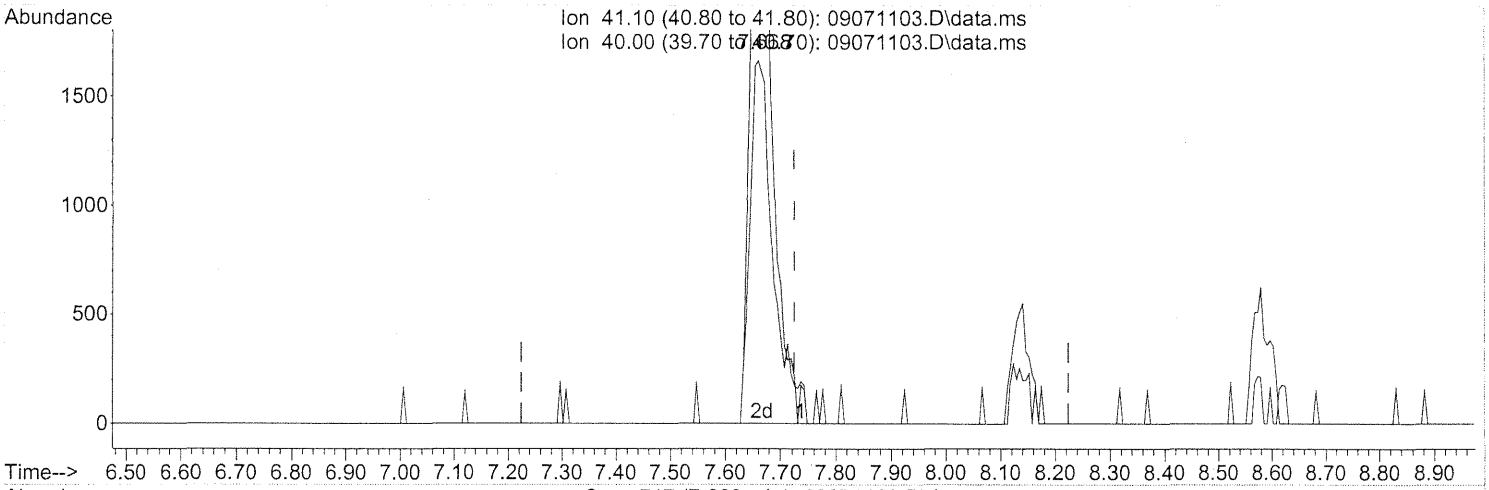
response 111

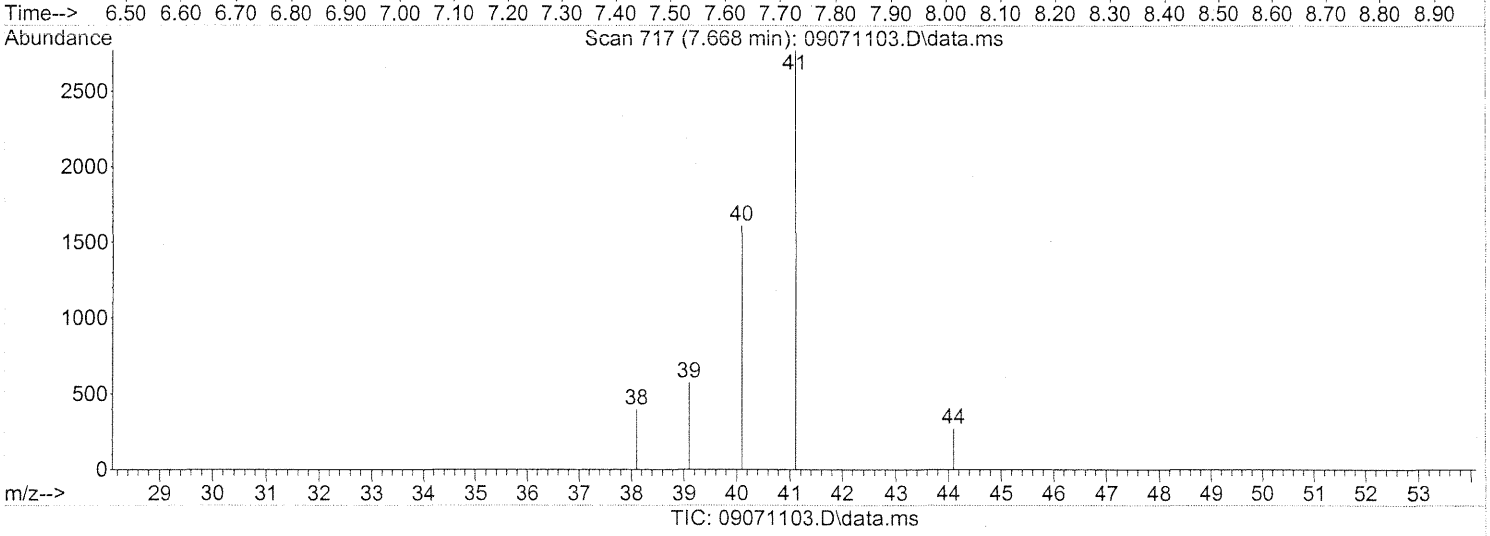
Ion	Exp%	Act%
41.10	100	100
40.00	51.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071103.D
Acq On : 7 Sep 2011 6:42
Operator : EM/CR
Sample : 0.2ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:19 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration





TIC: 09071103.D\data.ms

(11) Acetonitrile (T)

7.668min (-0.057) 0.19ng m

response 7921

Ion	Exp%	Act%
41.10	100	100
40.00	51.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

mp

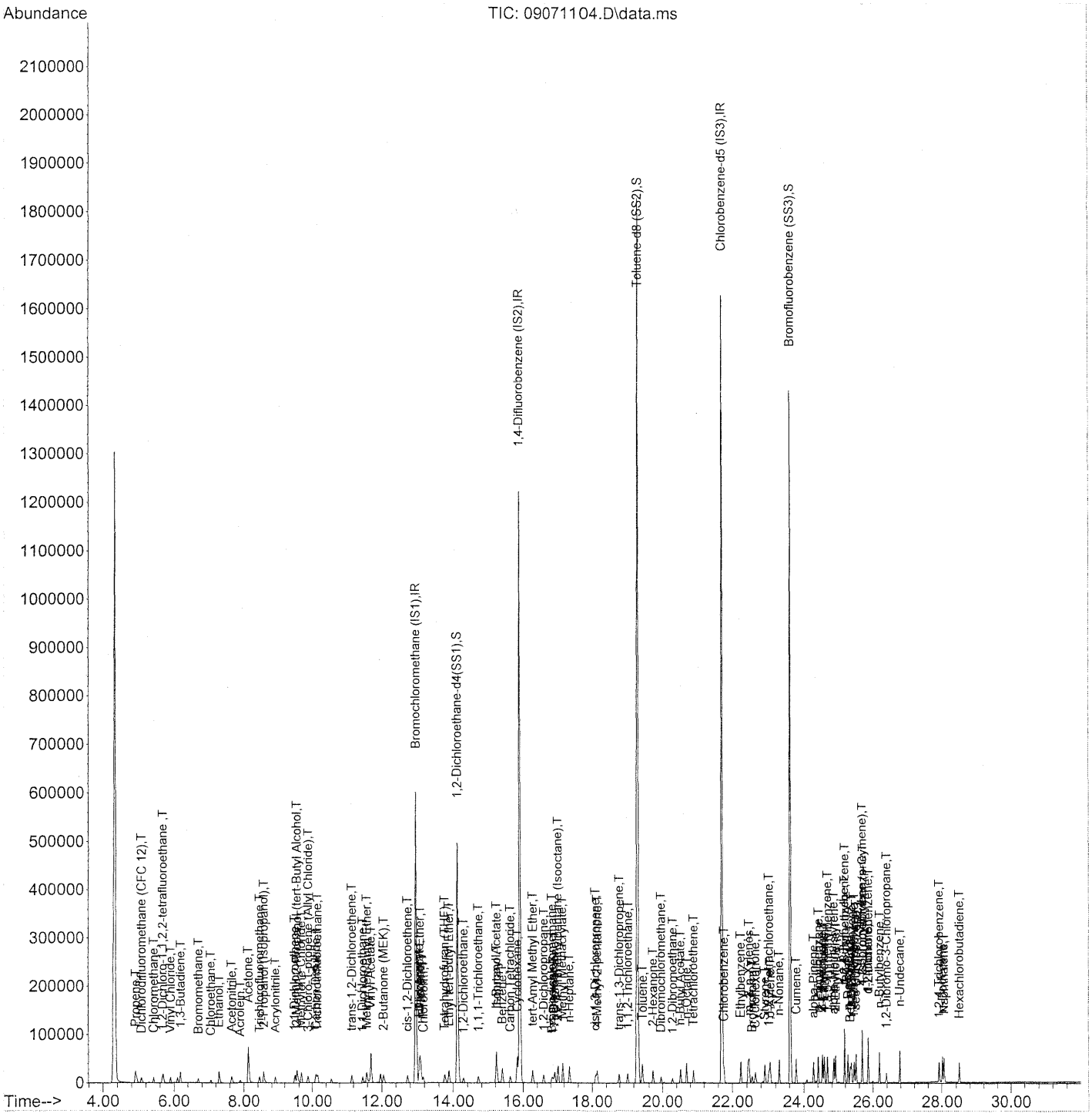
9/8/11

9/13/11

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071104.D
Acq On : 7 Sep 2011 7:24
Operator : EM/CR
Sample : 0.5ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:34 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071104.D
Acq On : 7 Sep 2011 7:24
Operator : EM/CR
Sample : 0.5ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:34 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.97	130	317926	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.91	114	1435462	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	687389	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	474517	23.777	ng		-0.02
Spiked Amount 25.000			Recovery = 95.12%				
57) Toluene-d8 (SS2)	19.30	98	1588787	25.267	ng		-0.01
Spiked Amount 25.000			Recovery = 101.08%				
73) Bromofluorobenzene (SS3)	23.62	174	558270	25.429	ng		0.00
Spiked Amount 25.000			Recovery = 101.72%				
Target Compounds							Qvalue
2) Propene	4.91	42	13505	0.482	ng		95
3) Dichlorodifluoromethan...	5.08	85	15948	0.463	ng		99
4) Chloromethane	5.42	50	13120	0.448	ng		100
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	9112	0.501	ng		99
6) Vinyl Chloride	5.90	62	13560	0.469	ng		100
7) 1,3-Butadiene	6.20	54	11657	0.551	ng		94
8) Bromomethane	6.70	94	6831	0.458	ng		100
9) Chloroethane	7.05	64	7052	0.471	ng		97
10) Ethanol	7.29	45	32477	1.949	ng		99
11) Acetonitrile	7.66	41	18829	0.472	ng		96
12) Acrolein	7.90	56	6067	0.512	ng		95
13) Acetone	8.12	58	37920	2.532	ng		99
14) Trichlorofluoromethane	8.45	101	14399	0.484	ng		100
15) 2-Propanol (Isopropanol)	8.57	45	39369	0.800	ng		94
16) Acrylonitrile	8.92	53	12362	0.490	ng		96
17) 1,1-Dichloroethene	9.49	96	8124	0.503	ng		86
18) 2-Methyl-2-Propanol (t...	9.54	59	46760	1.019	ng		96
19) Methylene Chloride	9.67	84	11714	0.629	ng		83
20) 3-Chloro-1-propene (Al...	9.88	41	13909	0.450	ng		74
21) Trichlorotrifluoroethane	10.15	151	7918	0.525	ng		94
22) Carbon Disulfide	10.11	76	35689	0.547	ng		100
23) trans-1,2-Dichloroethene	11.16	61	12833	0.474	ng		93
24) 1,1-Dichloroethane	11.46	63	15191	0.477	ng		96
25) Methyl tert-Butyl Ether	11.58	73	27412	0.471	ng		93
26) Vinyl Acetate	11.70	86	11951	2.288	ng	#	47
27) 2-Butanone (MEK)	12.06	72	6880	0.539	ng	#	39
28) cis-1,2-Dichloroethene	12.73	61	12287	0.483	ng		91
29) Diisopropyl Ether	13.08	87	8152	0.501	ng	#	7
30) Ethyl Acetate	13.06	61	6871	0.942	ng		84
31) n-Hexane	13.11	57	17695	0.480	ng		96

EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071104.D
Acq On : 7 Sep 2011 7:24
Operator : EM/CR
Sample : 0.5ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:34 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.17	83	13306	0.480	ng		100
34) Tetrahydrofuran (THF)	13.77	72	6169	0.498	ng	#	59
35) Ethyl tert-Butyl Ether	13.89	87	11242	0.470	ng	#	80
36) 1,2-Dichloroethane	14.30	62	10931	0.468	ng		99
38) 1,1,1-Trichloroethane	14.71	97	12594	0.461	ng		98
39) Isopropyl Acetate	15.23	61	12017	0.998	ng		93
40) 1-Butanol	15.23	56	19213	0.826	ng		92
41) Benzene	15.40	78	36127	0.492	ng		99
42) Carbon Tetrachloride	15.63	117	10793	0.488	ng		100
43) Cyclohexane	15.84	84	30527	0.981	ng		91
44) tert-Amyl Methyl Ether	16.27	73	26331	0.467	ng		97
45) 1,2-Dichloropropane	16.60	63	9153	0.473	ng		99
46) Bromodichloromethane	16.84	83	10765	0.468	ng		99
47) Trichloroethene	16.92	130	10170	0.500	ng		100
48) 1,4-Dioxane	16.88	88	7074	0.477	ng		86
49) 2,2,4-Trimethylpentane...	17.02	57	41814	0.459	ng		91
50) Methyl Methacrylate	17.16	100	7817	0.923	ng		95
51) n-Heptane	17.36	71	10400	0.483	ng		89
52) cis-1,3-Dichloropropene	18.09	75	13209	0.428	ng		99
53) 4-Methyl-2-pentanone	18.14	58	8892	0.480	ng	#	87
54) trans-1,3-Dichloropropene	18.78	75	13276	0.477	ng		98
55) 1,1,2-Trichloroethane	19.03	97	7921	0.460	ng		97
58) Toluene	19.43	91	37517	0.497	ng		100
59) 2-Hexanone	19.72	43	23171	0.517	ng		96
60) Dibromochloromethane	19.96	129	9134	0.495	ng		97
61) 1,2-Dibromoethane	20.29	107	9060	0.478	ng		99
62) n-Butyl Acetate	20.52	43	26433	0.490	ng		95
63) n-Octane	20.70	57	8733	0.479	ng		83
64) Tetrachloroethene	20.90	166	10333	0.442	ng		96
65) Chlorobenzene	21.76	112	23252	0.479	ng		94
66) Ethylbenzene	22.23	91	39315	0.468	ng		98
67) m- & p-Xylenes	22.46	91	62407	0.934	ng		93
68) Bromoform	22.56	173	7628	0.441	ng		99
69) Styrene	22.91	104	24011	0.461	ng		95
70) o-Xylene	23.06	91	32425	0.461	ng		95
71) n-Nonane	23.31	43	22270	0.456	ng		84
72) 1,1,2,2-Tetrachloroethane	23.02	83	14157	0.449	ng		96
74) Cumene	23.79	105	40000	0.442	ng		100
75) alpha-Pinene	24.28	93	19686	0.434	ng		92
76) n-Propylbenzene	24.41	91	50067	0.462	ng		97
77) 3-Ethyltoluene	24.53	105	42652	0.475	ng		99
78) 4-Ethyltoluene	24.58	105	41223	0.473	ng		100
79) 1,3,5-Trimethylbenzene	24.68	105	34654	0.473	ng		94

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071104.D
Acq On : 7 Sep 2011 7:24
Operator : EM/CR
Sample : 0.5ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

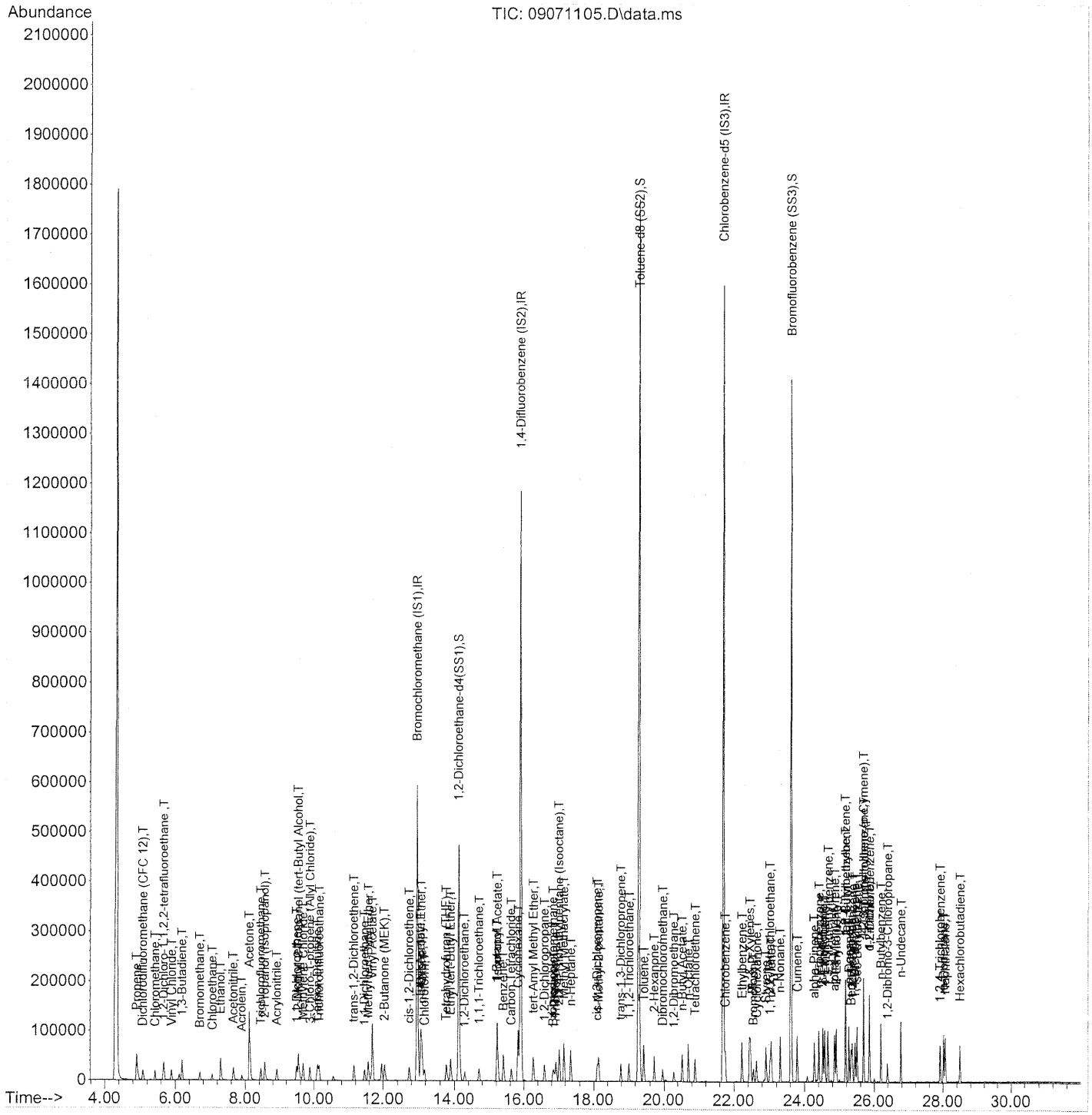
Quant Time: Sep 07 09:03:34 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.86	118	18194	0.439	ng	98
81) 2-Ethyltoluene	24.91	105	42004	0.472	ng	98
82) 1,2,4-Trimethylbenzene	25.18	105	35064	0.477	ng	90
83) n-Decane	25.27	57	21764	0.460	ng	92
84) Benzyl Chloride	25.34	91	27673	0.441	ng	100
85) 1,3-Dichlorobenzene	25.38	146	20528	0.468	ng	95
86) 1,4-Dichlorobenzene	25.45	146	21136	0.471	ng	98
87) sec-Butylbenzene	25.51	105	46406	0.494	ng	98
88) 4-Isopropyltoluene (p-...	25.69	119	44564	0.448	ng	90
89) 1,2,3-Trimethylbenzene	25.70	105	35443	0.466	ng	90
90) 1,2-Dichlorobenzene	25.87	146	19537	0.460	ng	97
91) d-Limonene	25.87	68	13524	0.448	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.39	157	6632	0.447	ng	92
93) n-Undecane	26.78	57	21752	0.465	ng	91
94) 1,2,4-Trichlorobenzene	27.92	180	15772	0.485	ng	99
95) Naphthalene	28.07	128	45685	0.413	ng	99
96) n-Dodecane	28.02	57	17639	0.387	ng	92
97) Hexachlorobutadiene	28.49	225	9406	0.472	ng	95
98) Cyclohexanone	22.64	55	12177	0.415	ng	94
99) tert-Butylbenzene	25.18	119	35885	0.487	ng	97
100) n-Butylbenzene	26.19	91	38502	0.507	ng	99

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

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071105.D
Acq On : 7 Sep 2011 8:07
Operator : EM/CR
Sample : 1.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 11:23:38 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071105.D
Acq On : 7 Sep 2011 8:07
Operator : EM/CR
Sample : 1.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 11:23:38 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.97	130	308217	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.92	114	1394862	25.000	ng		-0.01
56) Chlorobenzene-d5 (IS3)	21.71	82	672132	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	466809	24.128	ng		-0.02
Spiked Amount 25.000			Recovery =	96.52%			
57) Toluene-d8 (SS2)	19.30	98	1549637	25.204	ng		-0.01
Spiked Amount 25.000			Recovery =	100.80%			
73) Bromofluorobenzene (SS3)	23.62	174	543226	25.305	ng		0.00
Spiked Amount 25.000			Recovery =	101.24%			
Target Compounds							Qvalue
2) Propene	4.91	42	28670	1.055	ng		97
3) Dichlorodifluoromethan...	5.08	85	31038	0.930	ng		98
4) Chloromethane	5.42	50	22330	0.787	ng		100
5) 1,2-Dichloro-1,1,2,2-t...	5.68	135	16747	0.949	ng		97
6) Vinyl Chloride	5.91	62	25974	0.926	ng		97
7) 1,3-Butadiene	6.20	54	22212	1.084	ng		95
8) Bromomethane	6.70	94	12600	0.871	ng		100
9) Chloroethane	7.06	64	13452	0.927	ng		100
10) Ethanol	7.30	45	61473m	3.805	ng		
11) Acetonitrile	7.66	41	35793	0.925	ng		95
12) Acrolein	7.90	56	10586	0.922	ng		100
13) Acetone	8.12	58	69909	4.816	ng		99
14) Trichlorofluoromethane	8.45	101	25924	0.900	ng		97
15) 2-Propanol (Isopropanol)	8.57	45	62912	1.319	ng		92
16) Acrylonitrile	8.92	53	23109	0.944	ng		98
17) 1,1-Dichloroethene	9.50	96	15353	0.981	ng		91
18) 2-Methyl-2-Propanol (t...	9.54	59	88658	1.992	ng		96
19) Methylene Chloride	9.68	84	19355	1.073	ng		81
20) 3-Chloro-1-propene (Al...	9.89	41	27254	0.910	ng		73
21) Trichlorotrifluoroethane	10.16	151	14122	0.967	ng		98
22) Carbon Disulfide	10.11	76	63515	1.004	ng		100
23) trans-1,2-Dichloroethene	11.16	61	24564	0.935	ng		95
24) 1,1-Dichloroethane	11.47	63	28359	0.918	ng		98
25) Methyl tert-Butyl Ether	11.58	73	51521	0.914	ng		93
26) Vinyl Acetate	11.70	86	22436	4.430	ng	#	42
27) 2-Butanone (MEK)	12.05	72	13261	1.071	ng	#	45
28) cis-1,2-Dichloroethene	12.74	61	23095	0.936	ng		88
29) Diisopropyl Ether	13.08	87	15133	0.960	ng	#	1
30) Ethyl Acetate	13.06	61	12725	1.800	ng		84
31) n-Hexane	13.11	57	33175	0.929	ng		98

9/8/11

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071105.D
Acq On : 7 Sep 2011 8:07
Operator : EM/CR
Sample : 1.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 11:23:38 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.17	83	24659	0.917	ng		98
34) Tetrahydrofuran (THF)	13.77	72	11342	0.944	ng	#	58
35) Ethyl tert-Butyl Ether	13.89	87	21371	0.921	ng	#	82
36) 1,2-Dichloroethane	14.29	62	20805	0.919	ng		96
38) 1,1,1-Trichloroethane	14.71	97	24174	0.911	ng		98
39) Isopropyl Acetate	15.23	61	22217	1.899	ng	#	89
40) 1-Butanol	15.22	56	36983	1.636	ng		93
41) Benzene	15.40	78	66490	0.931	ng		100
42) Carbon Tetrachloride	15.63	117	20964	0.975	ng		97
43) Cyclohexane	15.84	84	55160	1.824	ng		88
44) tert-Amyl Methyl Ether	16.27	73	50589	0.923	ng		96
45) 1,2-Dichloropropane	16.60	63	17374	0.924	ng		99
46) Bromodichloromethane	16.84	83	20329	0.909	ng		98
47) Trichloroethene	16.92	130	17916	0.907	ng		97
48) 1,4-Dioxane	16.88	88	13774	0.955	ng		86
49) 2,2,4-Trimethylpentane...	17.02	57	78550	0.888	ng		92
50) Methyl Methacrylate	17.17	100	15145	1.839	ng		97
51) n-Heptane	17.37	71	19031	0.910	ng		90
52) cis-1,3-Dichloropropene	18.10	75	25441	0.848	ng		98
53) 4-Methyl-2-pentanone	18.14	58	17528	0.974	ng	#	87
54) trans-1,3-Dichloropropene	18.79	75	25284	0.935	ng		99
55) 1,1,2-Trichloroethane	19.03	97	15079	0.900	ng		99
58) Toluene	19.43	91	69712	0.944	ng		99
59) 2-Hexanone	19.72	43	45797	1.046	ng		93
60) Dibromochloromethane	19.96	129	17642	0.977	ng		99
61) 1,2-Dibromoethane	20.29	107	17138	0.924	ng		100
62) n-Butyl Acetate	20.53	43	50534	0.959	ng		95
63) n-Octane	20.70	57	16035	0.900	ng		84
64) Tetrachloroethene	20.90	166	19560	0.855	ng		99
65) Chlorobenzene	21.76	112	44163	0.931	ng		97
66) Ethylbenzene	22.24	91	74434	0.906	ng		99
67) m- & p-Xylenes	22.45	91	115871	1.774	ng		92
68) Bromoform	22.56	173	14763	0.873	ng		98
69) Styrene	22.91	104	45916	0.902	ng		95
70) o-Xylene	23.06	91	60672	0.881	ng		94
71) n-Nonane	23.31	43	42423	0.889	ng		85
72) 1,1,2,2-Tetrachloroethane	23.02	83	26288	0.853	ng		98
74) Cumene	23.79	105	76692	0.866	ng		99
75) alpha-Pinene	24.28	93	39182	0.884	ng		91
76) n-Propylbenzene	24.41	91	92906	0.877	ng		97
77) 3-Ethyltoluene	24.53	105	79954	0.910	ng		97
78) 4-Ethyltoluene	24.58	105	77973	0.915	ng		100
79) 1,3,5-Trimethylbenzene	24.68	105	64627	0.902	ng		93

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071105.D
Acq On : 7 Sep 2011 8:07
Operator : EM/CR
Sample : 1.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 11:23:38 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

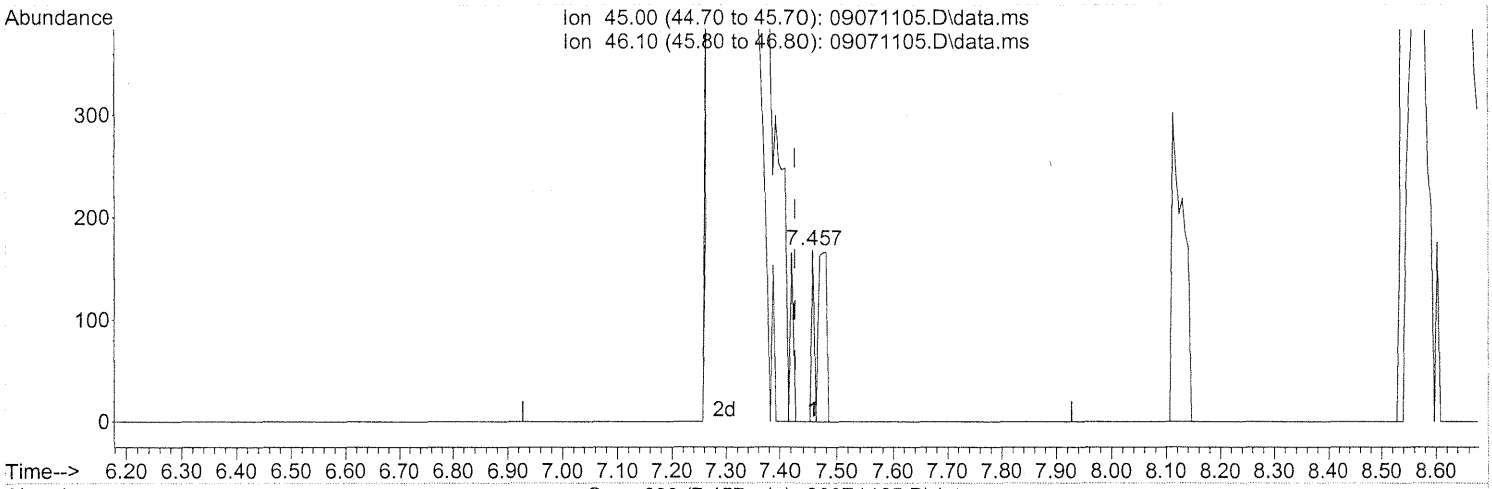
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.86	118	34918	0.862	ng		99
81) 2-Ethyltoluene	24.92	105	78637	0.903	ng		100
82) 1,2,4-Trimethylbenzene	25.18	105	64493	0.897	ng		88
83) n-Decane	25.28	57	41148	0.889	ng		93
84) Benzyl Chloride	25.34	91	52204	0.850	ng		100
85) 1,3-Dichlorobenzene	25.37	146	37927	0.885	ng		98
86) 1,4-Dichlorobenzene	25.45	146	38395	0.874	ng		96
87) sec-Butylbenzene	25.51	105	85340	0.928	ng		97
88) 4-Isopropyltoluene (p-...	25.69	119	83386	0.858	ng		90
89) 1,2,3-Trimethylbenzene	25.70	105	66308	0.891	ng		89
90) 1,2-Dichlorobenzene	25.87	146	35662	0.858	ng		99
91) d-Limonene	25.87	68	26976	0.914	ng		95
92) 1,2-Dibromo-3-Chloropr...	26.39	157	13143	0.906	ng		88
93) n-Undecane	26.78	57	41828	0.915	ng		92
94) 1,2,4-Trichlorobenzene	27.92	180	28424	0.894	ng		99
95) Naphthalene	28.07	128	82196	0.760	ng		100
96) n-Dodecane	28.02	57	32343	0.725	ng		92
97) Hexachlorobutadiene	28.49	225	18442	0.947	ng		99
98) Cyclohexanone	22.65	55	23420	0.816	ng	#	92
99) tert-Butylbenzene	25.18	119	65407	0.908	ng		95
100) n-Butylbenzene	26.19	91	70751	0.952	ng		98

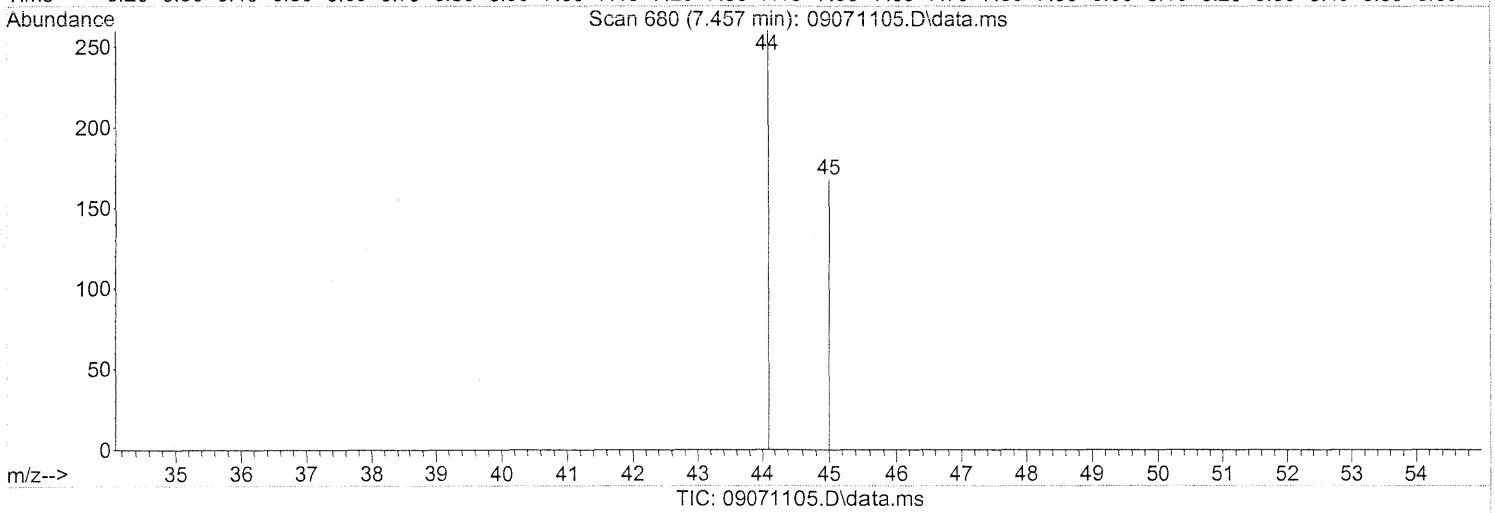
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071105.D
Acq On : 7 Sep 2011 8:07
Operator : EM/CR
Sample : 1.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:43 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration





TIC: 09071105.D\data.ms

(10) Ethanol (T)

7.457min (+0.029) 0.01ng

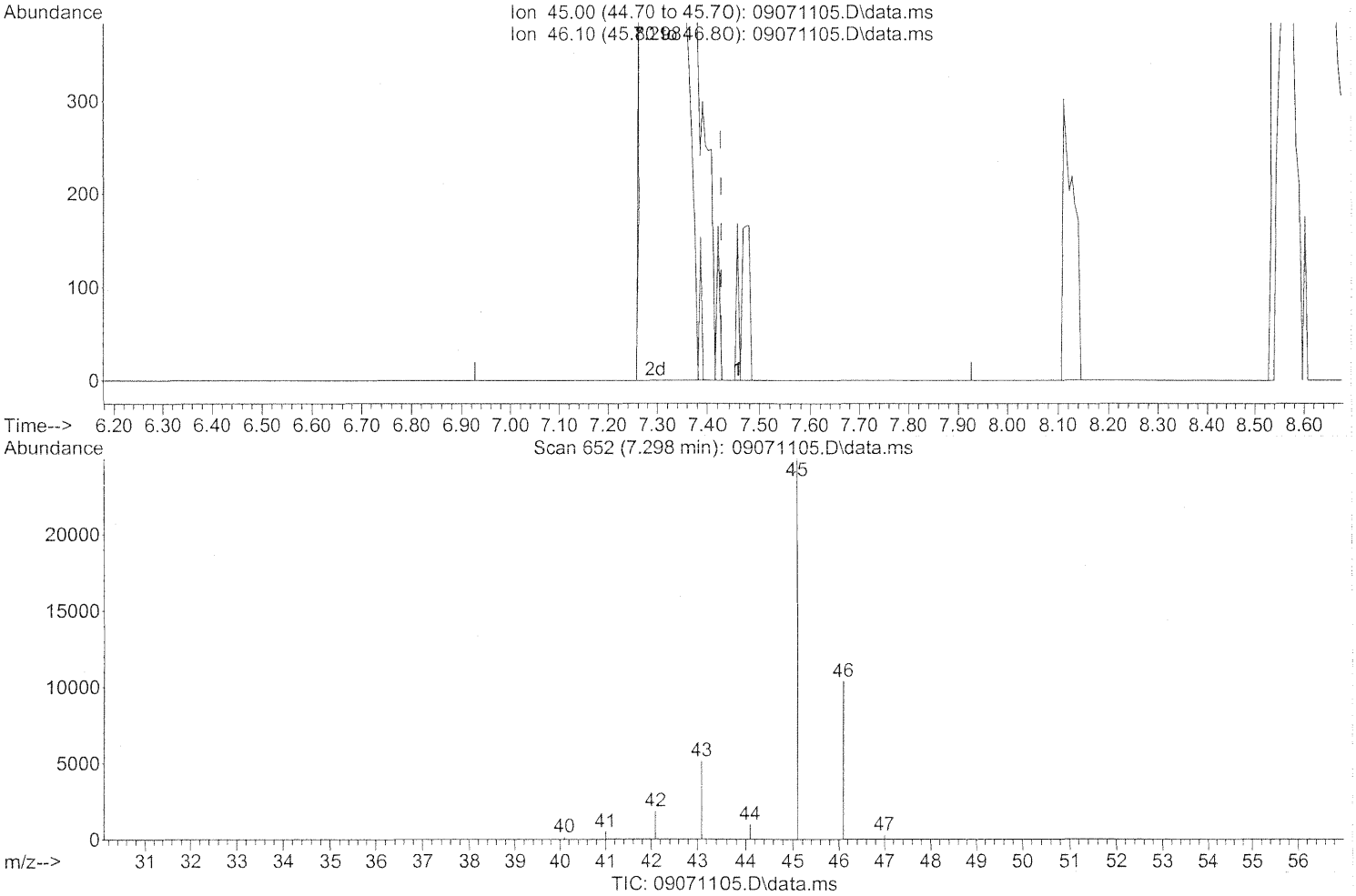
response 226

Ion	Exp%	Act%
45.00	100	100
46.10	40.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071105.D
Acq On : 7 Sep 2011 8:07
Operator : EM/CR
Sample : 1.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021111
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 09:03:43 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration



TIC: 09071105.D\data.ms

(10) Ethanol (T)

7.298min (-0.131) 3.81ng m

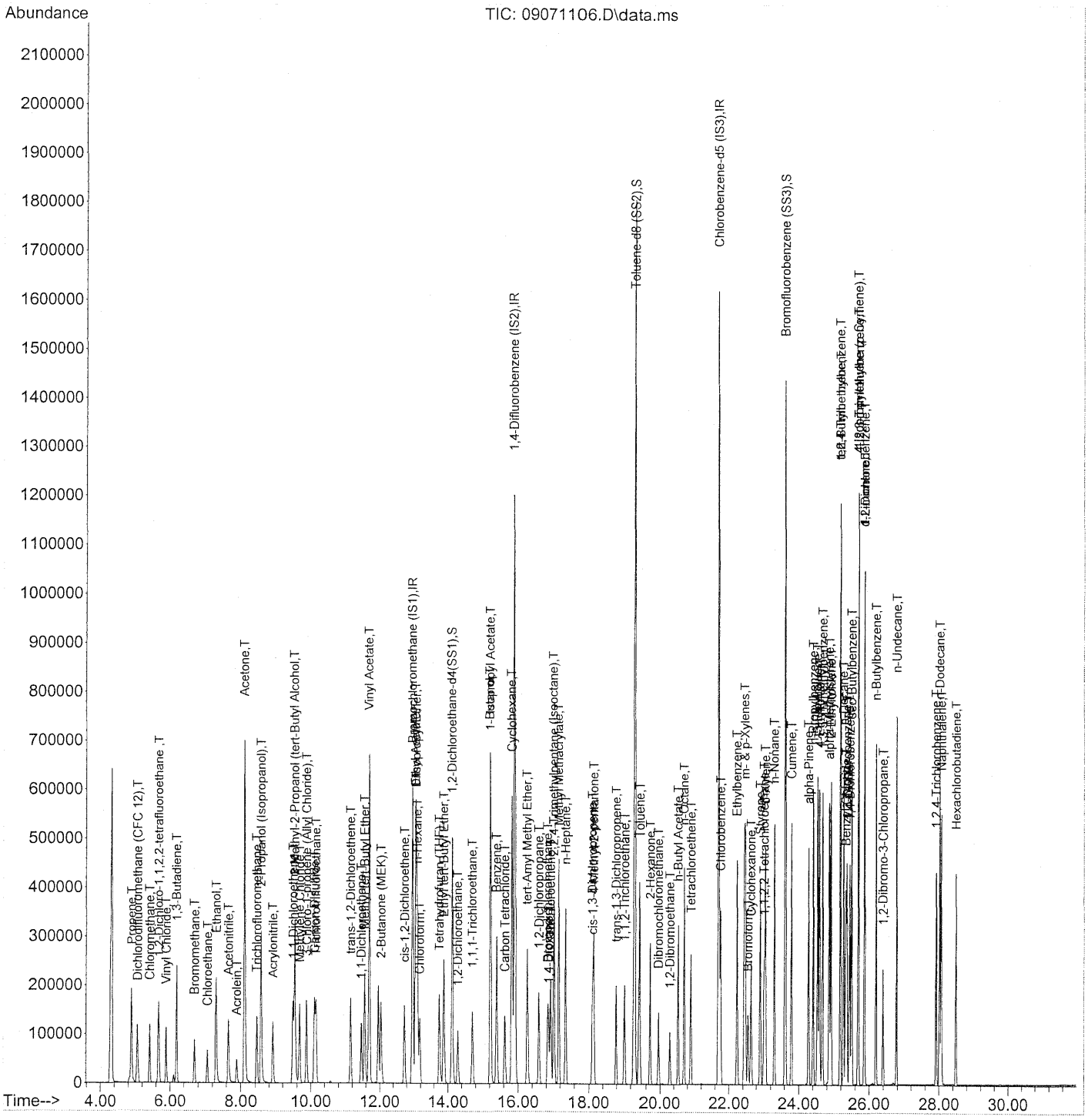
response 61473

Ion	Exp%	Act%
45.00	100	100
46.10	40.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

mp
EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071106.D
Acq On : 7 Sep 2011 8:49
Operator : EM/CR
Sample : 5.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:25:07 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071106.D
Acq On : 7 Sep 2011 8:49
Operator : EM/CR
Sample : 5.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:25:07 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.97	130	313555	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.91	114	1405528	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.71	82	682750	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	488561	24.822	ng		-0.02
Spiked Amount 25.000			Recovery = 99.28%				
57) Toluene-d8 (SS2)	19.30	98	1570535	25.147	ng		-0.01
Spiked Amount 25.000			Recovery = 100.60%				
73) Bromofluorobenzene (SS3)	23.62	174	553181	25.368	ng		0.00
Spiked Amount 25.000			Recovery = 101.48%				
Target Compounds							Qvalue
2) Propene	4.90	42	115572	4.181	ng		97
3) Dichlorodifluoromethan...	5.07	85	170955	5.035	ng		100
4) Chloromethane	5.41	50	148258	5.137	ng		98
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	93281	5.196	ng		99
6) Vinyl Chloride	5.89	62	140150	4.913	ng		99
7) 1,3-Butadiene	6.19	54	134713	6.461	ng		94
8) Bromomethane	6.69	94	74303	5.049	ng		97
9) Chloroethane	7.05	64	72710	4.927	ng		100
10) Ethanol	7.31	45	353680	21.520	ng		100
11) Acetonitrile	7.66	41	192381	4.890	ng		97
12) Acrolein	7.89	56	55792	4.774	ng		99
13) Acetone	8.11	58	364447	24.677	ng		98
14) Trichlorofluoromethane	8.44	101	151503	5.168	ng		100
15) 2-Propanol (Isopropanol)	8.56	45	540787	11.143	ng		92
16) Acrylonitrile	8.91	53	129973	5.221	ng		98
17) 1,1-Dichloroethene	9.49	96	90337	5.675	ng		94
18) 2-Methyl-2-Propanol (t...	9.53	59	525274	11.602	ng		96
19) Methylene Chloride	9.68	84	92307	5.028	ng		78
20) 3-Chloro-1-propene (Al...	9.88	41	166395	5.460	ng		74
21) Trichlorotrifluoroethane	10.15	151	80890	5.443	ng		96
22) Carbon Disulfide	10.11	76	338054	5.251	ng		99
23) trans-1,2-Dichloroethene	11.16	61	138591	5.188	ng		93
24) 1,1-Dichloroethane	11.46	63	164469	5.234	ng		100
25) Methyl tert-Butyl Ether	11.56	73	298699	5.206	ng		93
26) Vinyl Acetate	11.70	86	123723	24.013	ng	#	34
27) 2-Butanone (MEK)	12.04	72	70066	5.562	ng	#	46
28) cis-1,2-Dichloroethene	12.74	61	132075	5.261	ng		90
29) Diisopropyl Ether	13.08	87	85915	5.357	ng	#	1
30) Ethyl Acetate	13.05	61	74816	10.400	ng		85
31) n-Hexane	13.11	57	187427	5.159	ng		97

EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071106.D
Acq On : 7 Sep 2011 8:49
Operator : EM/CR
Sample : 5.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:25:07 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.17	83	145668	5.324	ng		99
34) Tetrahydrofuran (THF)	13.75	72	66916	5.474	ng	#	61
35) Ethyl tert-Butyl Ether	13.89	87	122786	5.203	ng	#	81
36) 1,2-Dichloroethane	14.29	62	122118	5.301	ng		97
38) 1,1,1-Trichloroethane	14.71	97	136940	5.119	ng		99
39) Isopropyl Acetate	15.23	61	128964	10.941	ng	#	88
40) 1-Butanol	15.21	56	211976	9.304	ng		95
41) Benzene	15.40	78	376717	5.235	ng		100
42) Carbon Tetrachloride	15.63	117	120784	5.577	ng		99
43) Cyclohexane	15.84	84	313947	10.302	ng		87
44) tert-Amyl Methyl Ether	16.26	73	291986	5.287	ng		97
45) 1,2-Dichloropropane	16.59	63	97676	5.156	ng		99
46) Bromodichloromethane	16.84	83	120607	5.351	ng		99
47) Trichloroethene	16.93	130	102117	5.130	ng		99
48) 1,4-Dioxane	16.87	88	79778	5.489	ng		86
49) 2,2,4-Trimethylpentane...	17.02	57	454825	5.104	ng		93
50) Methyl Methacrylate	17.17	100	88271	10.639	ng		94
51) n-Heptane	17.37	71	111207	5.279	ng		90
52) cis-1,3-Dichloropropene	18.10	75	146550	4.848	ng		99
53) 4-Methyl-2-pentanone	18.13	58	101330	5.587	ng	#	87
54) trans-1,3-Dichloropropene	18.79	75	148059	5.436	ng		99
55) 1,1,2-Trichloroethane	19.03	97	87417	5.180	ng		98
58) Toluene	19.43	91	397493	5.298	ng		99
59) 2-Hexanone	19.72	43	257875	5.796	ng		93
60) Dibromochloromethane	19.96	129	104572	5.701	ng		100
61) 1,2-Dibromoethane	20.29	107	98212	5.212	ng		99
62) n-Butyl Acetate	20.52	43	303696	5.671	ng		94
63) n-Octane	20.70	57	95245	5.260	ng		84
64) Tetrachloroethene	20.90	166	112691	4.850	ng		99
65) Chlorobenzene	21.76	112	255589	5.306	ng		99
66) Ethylbenzene	22.23	91	434356	5.203	ng		99
67) m- & p-Xylenes	22.46	91	687468	10.364	ng		93
68) Bromoform	22.56	173	91790	5.341	ng		100
69) Styrene	22.91	104	276733	5.349	ng		95
70) o-Xylene	23.06	91	354070	5.064	ng		94
71) n-Nonane	23.31	43	246871	5.090	ng		86
72) 1,1,2,2-Tetrachloroethane	23.02	83	156041	4.987	ng		98
74) Cumene	23.79	105	441350	4.908	ng		100
75) alpha-Pinene	24.28	93	228750	5.079	ng		92
76) n-Propylbenzene	24.41	91	552934	5.140	ng		98
77) 3-Ethyltoluene	24.53	105	468614	5.252	ng		98
78) 4-Ethyltoluene	24.59	105	457262	5.280	ng		99
79) 1,3,5-Trimethylbenzene	24.68	105	381381	5.240	ng		93

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071106.D
Acq On : 7 Sep 2011 8:49
Operator : EM/CR
Sample : 5.0ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

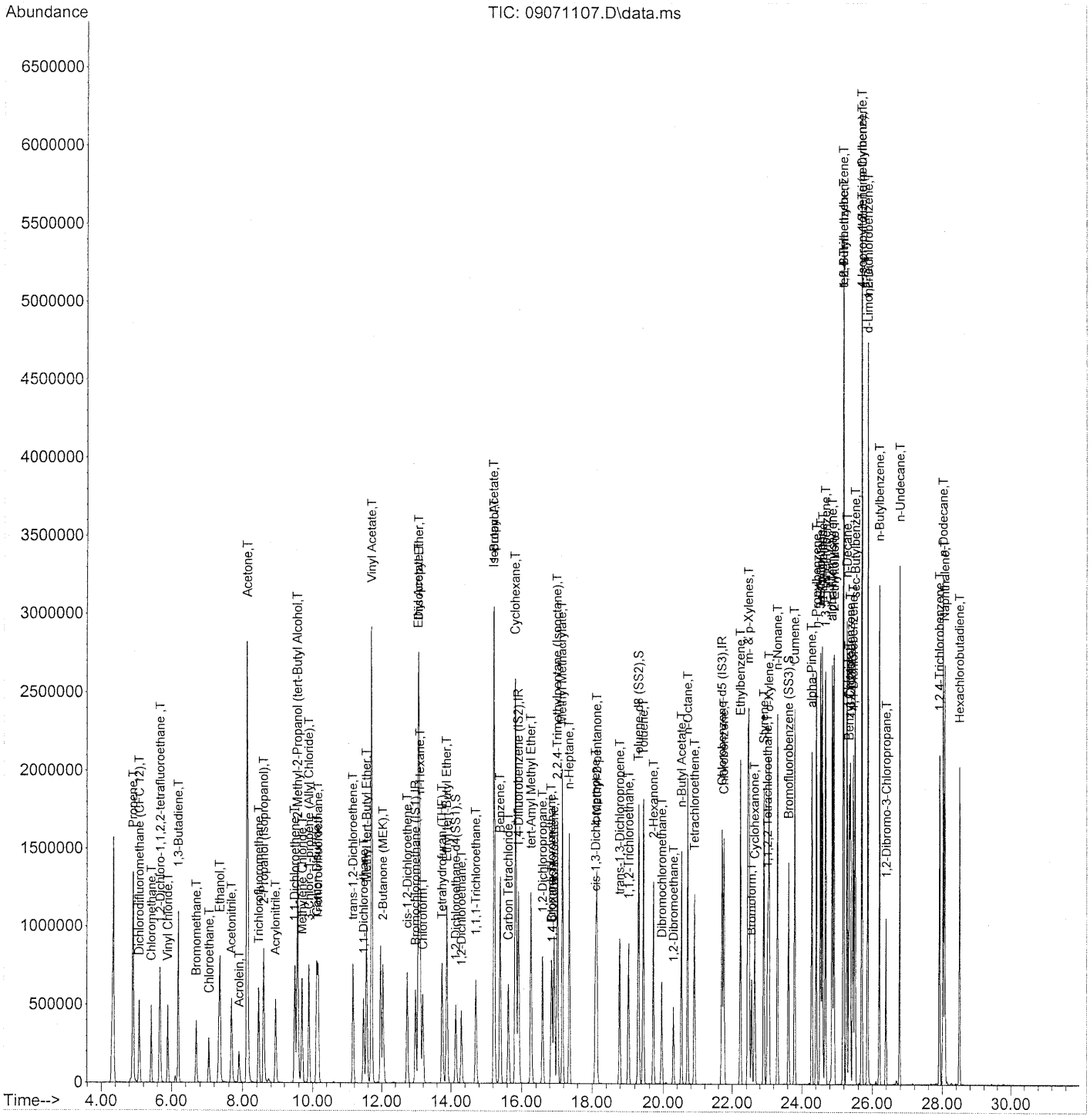
Quant Time: Sep 07 11:25:07 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.86	118	216354	5.261	ng		98
81) 2-Ethyltoluene	24.92	105	456696	5.164	ng		99
82) 1,2,4-Trimethylbenzene	25.18	105	386802	5.295	ng		89
83) n-Decane	25.27	57	243380	5.177	ng		92
84) Benzyl Chloride	25.34	91	322058	5.162	ng		98
85) 1,3-Dichlorobenzene	25.37	146	221511	5.088	ng		99
86) 1,4-Dichlorobenzene	25.45	146	221892	4.974	ng		98
87) sec-Butylbenzene	25.51	105	512276	5.485	ng		98
88) 4-Isopropyltoluene (p-...	25.69	119	496113	5.026	ng		90
89) 1,2,3-Trimethylbenzene	25.70	105	395652	5.235	ng		88
90) 1,2-Dichlorobenzene	25.87	146	213032	5.045	ng		99
91) d-Limonene	25.87	68	166202	5.545	ng		95
92) 1,2-Dibromo-3-Chloropr...	26.39	157	78500	5.329	ng		86
93) n-Undecane	26.78	57	254360	5.476	ng		92
94) 1,2,4-Trichlorobenzene	27.92	180	167057	5.173	ng		100
95) Naphthalene	28.07	128	509952	4.641	ng		99
96) n-Dodecane	28.02	57	236646	5.222	ng		92
97) Hexachlorobutadiene	28.49	225	108834	5.503	ng		99
98) Cyclohexanone	22.64	55	138111	4.736	ng	#	93
99) tert-Butylbenzene	25.18	119	394373	5.392	ng		97
100) n-Butylbenzene	26.19	91	417984	5.536	ng		98

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

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071107.D
Acq On : 7 Sep 2011 9:32
Operator : EM/CR
Sample : 25ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:27:31 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071107.D
Acq On : 7 Sep 2011 9:32
Operator : EM/CR
Sample : 25ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:27:31 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.98	130	316130	25.000	ng		-0.01
37) 1,4-Difluorobenzene (IS2)	15.92	114	1430177	25.000	ng		-0.01
56) Chlorobenzene-d5 (IS3)	21.71	82	679332	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.14	65	477586	24.067	ng		-0.01
Spiked Amount 25.000			Recovery = 96.28%				
57) Toluene-d8 (SS2)	19.30	98	1579081	25.411	ng		-0.01
Spiked Amount 25.000			Recovery = 101.64%				
73) Bromofluorobenzene (SS3)	23.62	174	546156	25.172	ng		0.00
Spiked Amount 25.000			Recovery = 100.68%				
Target Compounds							Qvalue
2) Propene	4.90	42	738087	26.485	ng		97
3) Dichlorodifluoromethan...	5.08	85	739960	21.614	ng		99
4) Chloromethane	5.42	50	615913	21.167	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.68	135	415179	22.937	ng		100
6) Vinyl Chloride	5.90	62	617022	21.455	ng		100
7) 1,3-Butadiene	6.19	54	606723	28.864	ng		94
8) Bromomethane	6.70	94	336477	22.677	ng		97
9) Chloroethane	7.06	64	322876	21.699	ng		100
10) Ethanol	7.35	45	1608637	97.082	ng		99
11) Acetonitrile	7.68	41	897690	22.631	ng		99
12) Acrolein	7.91	56	258422	21.934	ng		99
13) Acetone	8.13	58	1626722	109.250	ng		99
14) Trichlorofluoromethane	8.45	101	664511	22.482	ng		100
15) 2-Propanol (Isopropanol)	8.59	45	1567505	32.035	ng		91
16) Acrylonitrile	8.93	53	606228	24.152	ng		98
17) 1,1-Dichloroethene	9.49	96	399174	24.870	ng		94
18) 2-Methyl-2-Propanol (t...	9.57	59	2286015	50.081	ng		96
19) Methylene Chloride	9.69	84	404055	21.831	ng		80
20) 3-Chloro-1-propene (Al...	9.89	41	764806	24.890	ng		75
21) Trichlorotrifluoroethane	10.16	151	362016	24.162	ng		95
22) Carbon Disulfide	10.11	76	1497393	23.068	ng		99
23) trans-1,2-Dichloroethene	11.16	61	616877	22.904	ng		94
24) 1,1-Dichloroethane	11.48	63	737339	23.274	ng		99
25) Methyl tert-Butyl Ether	11.56	73	1351650	23.366	ng		94
26) Vinyl Acetate	11.71	86	586944	112.989	ng	#	46
27) 2-Butanone (MEK)	12.05	72	315124	24.811	ng	#	50
28) cis-1,2-Dichloroethene	12.74	61	586286	23.163	ng		90
29) Diisopropyl Ether	13.08	87	387722	23.981	ng	#	2
30) Ethyl Acetate	13.07	61	336981	46.462	ng		84
31) n-Hexane	13.11	57	831933	22.713	ng		97

EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071107.D
Acq On : 7 Sep 2011 9:32
Operator : EM/CR
Sample : 25ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:27:31 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.19	83	649566	23.546	ng		99
34) Tetrahydrofuran (THF)	13.75	72	282559	22.924	ng	#	64
35) Ethyl tert-Butyl Ether	13.89	87	553553	23.267	ng	#	82
36) 1,2-Dichloroethane	14.30	62	522907	22.513	ng		98
38) 1,1,1-Trichloroethane	14.71	97	618391	22.717	ng		98
39) Isopropyl Acetate	15.23	61	574293	47.881	ng	#	91
40) 1-Butanol	15.24	56	976175	42.106	ng		98
41) Benzene	15.41	78	1668459	22.784	ng		100
42) Carbon Tetrachloride	15.64	117	544867	24.723	ng		100
43) Cyclohexane	15.84	84	1403425	45.260	ng		88
44) tert-Amyl Methyl Ether	16.27	73	1304614	23.215	ng		97
45) 1,2-Dichloropropane	16.59	63	435784	22.606	ng		98
46) Bromodichloromethane	16.85	83	542620	23.659	ng		100
47) Trichloroethene	16.93	130	460023	22.711	ng		100
48) 1,4-Dioxane	16.87	88	360304	24.363	ng		88
49) 2,2,4-Trimethylpentane...	17.03	57	2001837	22.075	ng		92
50) Methyl Methacrylate	17.17	100	401686	47.581	ng		96
51) n-Heptane	17.37	71	495023	23.094	ng		90
52) cis-1,3-Dichloropropene	18.10	75	669714	21.773	ng		99
53) 4-Methyl-2-pentanone	18.13	58	452099	24.499	ng	#	89
54) trans-1,3-Dichloropropene	18.79	75	683105	24.647	ng		100
55) 1,1,2-Trichloroethane	19.03	97	392161	22.836	ng		99
58) Toluene	19.43	91	1777079	23.805	ng		99
59) 2-Hexanone	19.72	43	1148210	25.939	ng		94
60) Dibromochloromethane	19.96	129	482225	26.421	ng		100
61) 1,2-Dibromoethane	20.29	107	449098	23.953	ng		100
62) n-Butyl Acetate	20.53	43	1377883	25.860	ng		95
63) n-Octane	20.70	57	421640	23.405	ng		84
64) Tetrachloroethene	20.90	166	510599	22.088	ng		100
65) Chlorobenzene	21.76	112	1142921	23.845	ng		100
66) Ethylbenzene	22.24	91	1950434	23.482	ng		98
67) m- & p-Xylenes	22.47	91	3056717	46.313	ng		92
68) Bromoform	22.56	173	432212	25.278	ng		100
69) Styrene	22.91	104	1253211	24.346	ng		95
70) o-Xylene	23.06	91	1581101	22.726	ng		94
71) n-Nonane	23.31	43	1087720	22.541	ng		86
72) 1,1,2,2-Tetrachloroethane	23.02	83	706014	22.679	ng		98
74) Cumene	23.79	105	1986356	22.201	ng		100
75) alpha-Pinene	24.28	93	1024985	22.874	ng		92
76) n-Propylbenzene	24.41	91	2464270	23.024	ng		98
77) 3-Ethyltoluene	24.54	105	2152489	24.246	ng		98
78) 4-Ethyltoluene	24.59	105	2036063	23.630	ng		98
79) 1,3,5-Trimethylbenzene	24.68	105	1718471	23.728	ng		92

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071107.D
Acq On : 7 Sep 2011 9:32
Operator : EM/CR
Sample : 25ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:27:31 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

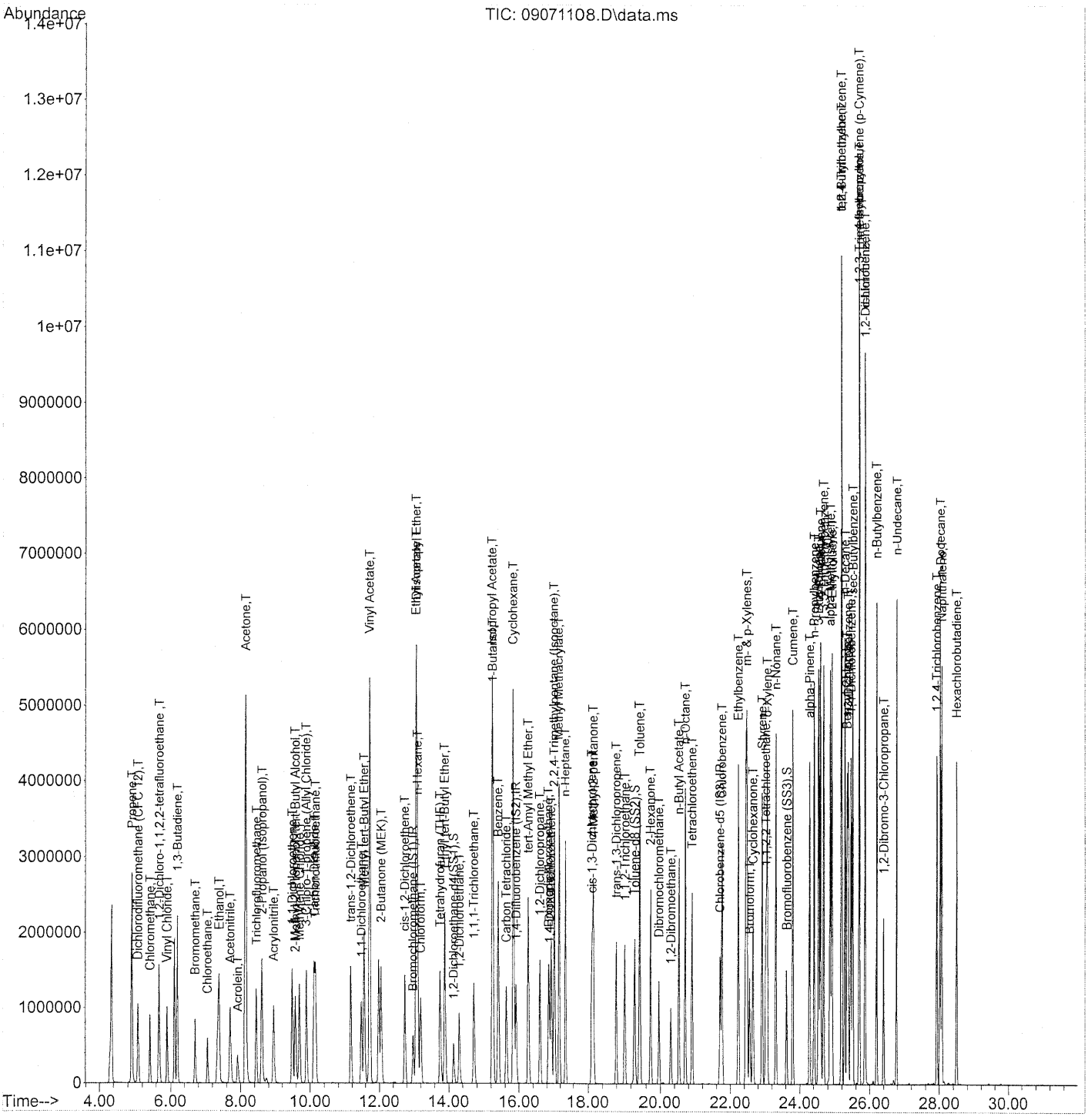
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.86	118	993771	24.286	ng	99
81) 2-Ethyltoluene	24.92	105	2084748	23.691	ng	98
82) 1,2,4-Trimethylbenzene	25.18	105	1776478	24.440	ng	89
83) n-Decane	25.28	57	1080542	23.102	ng	94
84) Benzyl Chloride	25.35	91	1543345	24.863	ng	97
85) 1,3-Dichlorobenzene	25.38	146	1016084	23.454	ng	99
86) 1,4-Dichlorobenzene	25.46	146	1034411	23.305	ng	99
87) sec-Butylbenzene	25.51	105	2285743	24.598	ng	97
88) 4-Isopropyltoluene (p-...	25.70	119	2290779	23.325	ng	90
89) 1,2,3-Trimethylbenzene	25.70	105	1817600	24.168	ng	89
90) 1,2-Dichlorobenzene	25.87	146	976674	23.247	ng	100
91) d-Limonene	25.87	68	761797	25.546	ng	96
92) 1,2-Dibromo-3-Chloropr...	26.40	157	374627	25.559	ng	83
93) n-Undecane	26.78	57	1130247	24.455	ng	93
94) 1,2,4-Trichlorobenzene	27.92	180	802701	24.979	ng	99
95) Naphthalene	28.07	128	2432947	22.252	ng	100
96) n-Dodecane	28.02	57	1065592	23.634	ng	93
97) Hexachlorobutadiene	28.49	225	502089	25.514	ng	99
98) Cyclohexanone	22.65	55	622705	21.462	ng	93
99) tert-Butylbenzene	25.18	119	1787990	24.571	ng	97
100) n-Butylbenzene	26.20	91	1894790	25.224	ng	97

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071108.D
Acq On : 7 Sep 2011 10:14
Operator : EM/CR
Sample : 50ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:35:17 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071108.D
Acq On : 7 Sep 2011 10:14
Operator : EM/CR
Sample : 50ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:35:17 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.99	130	341599	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.92	114	1539982	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.71	82	723216	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.14	65	500725	23.352	ng		0.00
Spiked Amount 25.000			Recovery = 93.40%				
57) Toluene-d8 (SS2)	19.30	98	1681454	25.416	ng		0.00
Spiked Amount 25.000			Recovery = 101.68%				
73) Bromofluorobenzene (SS3)	23.63	174	601356	26.034	ng		0.00
Spiked Amount 25.000			Recovery = 104.12%				
Target Compounds							Qvalue
2) Propene	4.91	42	1424064	47.290	ng		97
3) Dichlorodifluoromethan...	5.08	85	1495785	40.434	ng		100
4) Chloromethane	5.42	50	1149208	36.551	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.68	135	858117	43.874	ng		100
6) Vinyl Chloride	5.90	62	1257257	40.458	ng		99
7) 1,3-Butadiene	6.20	54	1246561	54.882	ng		95
8) Bromomethane	6.71	94	710004	44.283	ng		98
9) Chloroethane	7.06	64	673474	41.886	ng		100
10) Ethanol	7.39	45	3263236	182.255	ng		99
11) Acetonitrile	7.70	41	1792266	41.814	ng		99
12) Acrolein	7.92	56	525711	41.294	ng		100
13) Acetone	8.15	58	3295475	204.821	ng		94
14) Trichlorofluoromethane	8.45	101	1382889	43.297	ng		100
15) 2-Propanol (Isopropanol)	8.62	45	3136986	59.330	ng		91
16) Acrylonitrile	8.94	53	1232390	45.437	ng		99
17) 1,1-Dichloroethene	9.50	96	830381	47.879	ng		97
18) 2-Methyl-2-Propanol (t...	9.58	59	1876302	38.040	ng		96
19) Methylene Chloride	9.70	84	835351	41.769	ng		84
20) 3-Chloro-1-propene (Al...	9.89	41	1529931	46.079	ng		77
21) Trichlorotrifluoroethane	10.16	151	761178	47.015	ng		94
22) Carbon Disulfide	10.12	76	3078886	43.896	ng		99
23) trans-1,2-Dichloroethene	11.17	61	1259300	43.271	ng		96
24) 1,1-Dichloroethane	11.48	63	1502745	43.897	ng		100
25) Methyl tert-Butyl Ether	11.56	73	2775656	44.406	ng		94
26) Vinyl Acetate	11.73	86	1234064	219.850	ng	#	65
27) 2-Butanone (MEK)	12.06	72	649296	47.310	ng	#	57
28) cis-1,2-Dichloroethene	12.75	61	1190630	43.532	ng		92
29) Diisopropyl Ether	13.08	87	809033	46.308	ng	#	19
30) Ethyl Acetate	13.08	61	691729	88.262	ng		85
31) n-Hexane	13.12	57	1702444	43.014	ng		97

EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071108.D
Acq On : 7 Sep 2011 10:14
Operator : EM/CR
Sample : 50ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:35:17 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.20	83	1350935	45.318	ng		99
34) Tetrahydrofuran (THF)	13.76	72	570102	42.805	ng	#	68
35) Ethyl tert-Butyl Ether	13.89	87	1158565	45.067	ng	#	86
36) 1,2-Dichloroethane	14.31	62	1051453	41.893	ng		98
38) 1,1,1-Trichloroethane	14.72	97	1278138	43.606	ng		98
39) Isopropyl Acetate	15.24	61	1171421	90.702	ng		98
40) 1-Butanol	15.26	56	2001364	80.172	ng		99
41) Benzene	15.41	78	3430478	43.505	ng		100
42) Carbon Tetrachloride	15.64	117	1139232	48.006	ng		100
43) Cyclohexane	15.85	84	2910784	87.178	ng		91
44) tert-Amyl Methyl Ether	16.27	73	2671733	44.152	ng		98
45) 1,2-Dichloropropane	16.61	63	885273	42.649	ng		99
46) Bromodichloromethane	16.86	83	1126146	45.601	ng		100
47) Trichloroethene	16.94	130	965281	44.257	ng		99
48) 1,4-Dioxane	16.88	88	749715	47.079	ng		90
49) 2,2,4-Trimethylpentane...	17.03	57	4026546	41.236	ng		92
50) Methyl Methacrylate	17.18	100	848814	93.375	ng		99
51) n-Heptane	17.37	71	1011829	43.838	ng		92
52) cis-1,3-Dichloropropene	18.10	75	1374438	41.498	ng		99
53) 4-Methyl-2-pentanone	18.14	58	914955	46.045	ng		91
54) trans-1,3-Dichloropropene	18.79	75	1404820	47.072	ng		100
55) 1,1,2-Trichloroethane	19.04	97	812270	43.927	ng		99
58) Toluene	19.43	91	3641953	45.826	ng		98
59) 2-Hexanone	19.72	43	2282210	48.428	ng		96
60) Dibromochloromethane	19.96	129	1011615	52.062	ng		100
61) 1,2-Dibromoethane	20.30	107	933218	46.754	ng		100
62) n-Butyl Acetate	20.53	43	2801420	49.386	ng		96
63) n-Octane	20.71	57	847258	44.176	ng		87
64) Tetrachloroethene	20.90	166	1073193	43.608	ng		100
65) Chlorobenzene	21.76	112	2369787	46.441	ng		99
66) Ethylbenzene	22.24	91	4009057	45.338	ng		98
67) m- & p-Xylenes	22.48	91	6292654	89.556	ng		92
68) Bromoform	22.56	173	919820	50.531	ng		99
69) Styrene	22.92	104	2597706	47.404	ng		95
70) o-Xylene	23.07	91	3243554	43.793	ng		94
71) n-Nonane	23.32	43	2123368	41.332	ng		89
72) 1,1,2,2-Tetrachloroethane	23.03	83	1445458	43.615	ng		98
74) Cumene	23.80	105	4108641	43.134	ng		99
75) alpha-Pinene	24.29	93	2100691	44.036	ng		92
76) n-Propylbenzene	24.42	91	4972511	43.640	ng		97
77) 3-Ethyltoluene	24.54	105	4317412	45.682	ng		97
78) 4-Ethyltoluene	24.60	105	4296004	46.834	ng		98
79) 1,3,5-Trimethylbenzene	24.68	105	3567646	46.272	ng		91

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071108.D
Acq On : 7 Sep 2011 10:14
Operator : EM/CR
Sample : 50ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

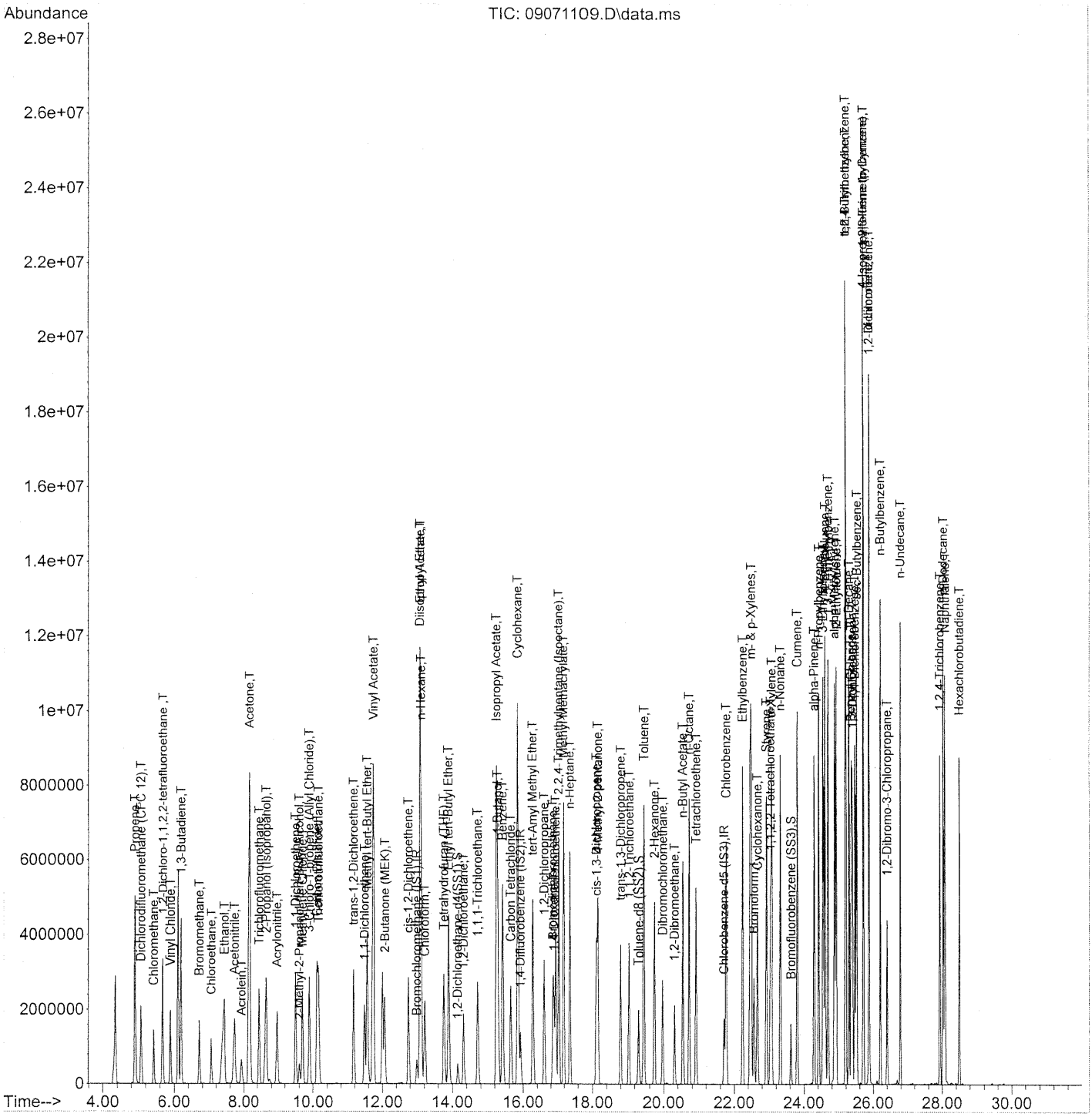
Quant Time: Sep 07 11:35:17 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.87	118	2060235	47.293	ng	98
81) 2-Ethyltoluene	24.92	105	4267670	45.556	ng	98
82) 1,2,4-Trimethylbenzene	25.19	105	3696124	47.765	ng	88
83) n-Decane	25.29	57	2155057	43.279	ng	95
84) Benzyl Chloride	25.35	91	3236432	48.974	ng	97
85) 1,3-Dichlorobenzene	25.38	146	2133125	46.251	ng	99
86) 1,4-Dichlorobenzene	25.46	146	2156022	45.627	ng	98
87) sec-Butylbenzene	25.51	105	4634304	46.846	ng	97
88) 4-Isopropyltoluene (p-...	25.70	119	4760754	45.533	ng	89
89) 1,2,3-Trimethylbenzene	25.71	105	3786887	47.298	ng	88
90) 1,2-Dichlorobenzene	25.88	146	2049054	45.812	ng	99
91) d-Limonene	25.87	68	1534986	48.350	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.40	157	779779	49.973	ng	81
93) n-Undecane	26.78	57	2238942	45.504	ng	95
94) 1,2,4-Trichlorobenzene	27.92	180	1702478	49.765	ng	99
95) Naphthalene	28.08	128	5096165	43.783	ng	100
96) n-Dodecane	28.03	57	2172151	45.253	ng	95
97) Hexachlorobutadiene	28.49	225	1050597	50.148	ng	99
98) Cyclohexanone	22.65	55	1259019	40.760	ng	94
99) tert-Butylbenzene	25.19	119	3715687	47.963	ng	96
100) n-Butylbenzene	26.20	91	3830878	47.903	ng	96

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

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071109.D
Acq On : 7 Sep 2011 10:57
Operator : EM/CR
Sample : 100ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:37:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071109.D
Acq On : 7 Sep 2011 10:57
Operator : EM/CR
Sample : 100ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:37:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.99	130	361677	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.93	114	1629359	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.71	82	762968	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.15	65	521316	22.962	ng		0.00
Spiked Amount 25.000			Recovery = 91.84%				
57) Toluene-d8 (SS2)	19.31	98	1770144	25.363	ng		0.00
Spiked Amount 25.000			Recovery = 101.44%				
73) Bromofluorobenzene (SS3)	23.63	174	644267	26.439	ng		0.00
Spiked Amount 25.000			Recovery = 105.76%				
Target Compounds							Qvalue
2) Propene	4.90	42	2673730	83.860	ng		97
3) Dichlorodifluoromethan...	5.07	85	3062655	78.194	ng		100
4) Chloromethane	5.42	50	1915735	57.548	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.68	135	1797437	86.798	ng		100
6) Vinyl Chloride	5.90	62	2556218	77.691	ng		100
7) 1,3-Butadiene	6.20	54	2530131	105.209	ng		96
8) Bromomethane	6.71	94	1462201	86.134	ng		98
9) Chloroethane	7.06	64	1385740	81.401	ng		100
10) Ethanol	7.43	45	6546025	345.305	ng		98
11) Acetonitrile	7.73	41	3591575	79.140	ng		99
12) Acrolein	7.92	56	1064602	78.982	ng		99
13) Acetone	8.17	58	6584020	386.495	ng		88
14) Trichlorofluoromethane	8.45	101	2856003	84.455	ng		99
15) 2-Propanol (Isopropanol)	8.65	45	6542701	116.873	ng		91
16) Acrylonitrile	8.96	53	2490423	86.723	ng		99
17) 1,1-Dichloroethene	9.50	96	1715888	93.445	ng		99
18) 2-Methyl-2-Propanol (t...	9.61	59	880708	16.864	ng		97
19) Methylene Chloride	9.70	84	1721161	81.283	ng		88
20) 3-Chloro-1-propene (Al...	9.90	41	3035758	86.356	ng		79
21) Trichlorotrifluoroethane	10.16	151	1528892	89.192	ng		93
22) Carbon Disulfide	10.12	76	6259534	84.288	ng		98
23) trans-1,2-Dichloroethene	11.17	61	2537229	82.342	ng		98
24) 1,1-Dichloroethane	11.49	63	3036044	83.763	ng		100
25) Methyl tert-Butyl Ether	11.57	73	5654565	85.441	ng		94
26) Vinyl Acetate	11.75	86	2566790	431.891	ng	#	90
27) 2-Butanone (MEK)	12.07	72	1002599	68.998	ng	#	63
28) cis-1,2-Dichloroethene	12.75	61	2405792	83.078	ng		94
29) Diisopropyl Ether	13.09	87	1680332	90.841	ng	#	41
30) Ethyl Acetate	13.09	61	1388321	167.311	ng		87
31) n-Hexane	13.12	57	3416978	81.541	ng		98

EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071109.D
Acq On : 7 Sep 2011 10:57
Operator : EM/CR
Sample : 100ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:37:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.22	83	2790901	88.426	ng		99
34) Tetrahydrofuran (THF)	13.76	72	1170932	83.036	ng	#	72
35) Ethyl tert-Butyl Ether	13.89	87	2394756	87.982	ng		90
36) 1,2-Dichloroethane	14.31	62	2119756	79.769	ng		98
38) 1,1,1-Trichloroethane	14.72	97	2637242	85.038	ng		97
39) Isopropyl Acetate	15.26	61	2364020	173.002	ng	#	93
40) 1-Butanol	15.29	56	4011999	151.899	ng		97
41) Benzene	15.42	78	6996372	83.860	ng		99
42) Carbon Tetrachloride	15.65	117	2366782	94.263	ng		100
43) Cyclohexane	15.85	84	5980540	169.293	ng		94
44) tert-Amyl Methyl Ether	16.28	73	5442588	85.008	ng		99
45) 1,2-Dichloropropane	16.61	63	1786361	81.339	ng		99
46) Bromodichloromethane	16.86	83	2318860	88.746	ng		100
47) Trichloroethene	16.95	130	2033960	88.140	ng		100
48) 1,4-Dioxane	16.89	88	1472506	87.395	ng		92
49) 2,2,4-Trimethylpentane...	17.04	57	8000380	77.439	ng		91
50) Methyl Methacrylate	17.19	100	1780613	185.135	ng		95
51) n-Heptane	17.39	71	2064412	84.535	ng		93
52) cis-1,3-Dichloropropene	18.11	75	2796109	79.790	ng		100
53) 4-Methyl-2-pentanone	18.15	58	1850403	88.014	ng		95
54) trans-1,3-Dichloropropene	18.80	75	2865740	90.757	ng		99
55) 1,1,2-Trichloroethane	19.04	97	1669286	85.322	ng		99
58) Toluene	19.44	91	7416459	88.458	ng		98
59) 2-Hexanone	19.73	43	4473654	89.983	ng		98
60) Dibromochloromethane	19.97	129	2106409	102.758	ng		99
61) 1,2-Dibromoethane	20.30	107	1925842	91.457	ng		99
62) n-Butyl Acetate	20.54	43	5628318	94.052	ng		98
63) n-Octane	20.71	57	1700876	84.064	ng		89
64) Tetrachloroethene	20.91	166	2266171	87.285	ng		100
65) Chlorobenzene	21.77	112	4871771	90.499	ng		99
66) Ethylbenzene	22.24	91	8103070	86.862	ng		97
67) m- & p-Xylenes	22.48	91	12853922	173.403	ng		90
68) Bromoform	22.57	173	1945050	101.285	ng		99
69) Styrene	22.93	104	5343842	92.435	ng		95
70) o-Xylene	23.07	91	6644610	85.039	ng		93
71) n-Nonane	23.32	43	4109853	75.832	ng		92
72) 1,1,2,2-Tetrachloroethane	23.04	83	2945753	84.254	ng		99
74) Cumene	23.80	105	8335280	82.948	ng		97
75) alpha-Pinene	24.29	93	4301357	85.470	ng		92
76) n-Propylbenzene	24.42	91	9877892	82.175	ng		96
77) 3-Ethyltoluene	24.54	105	8806936	88.330	ng		96
78) 4-Ethyltoluene	24.60	105	8767809	90.604	ng		96
79) 1,3,5-Trimethylbenzene	24.69	105	7325898	90.065	ng		90

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071109.D
Acq On : 7 Sep 2011 10:57
Operator : EM/CR
Sample : 100ng TO-15 ICAL STD
Misc : S25-09011101/S25-09021104
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 11:37:15 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Sep 06 10:19:52 2011
Response via : Initial Calibration

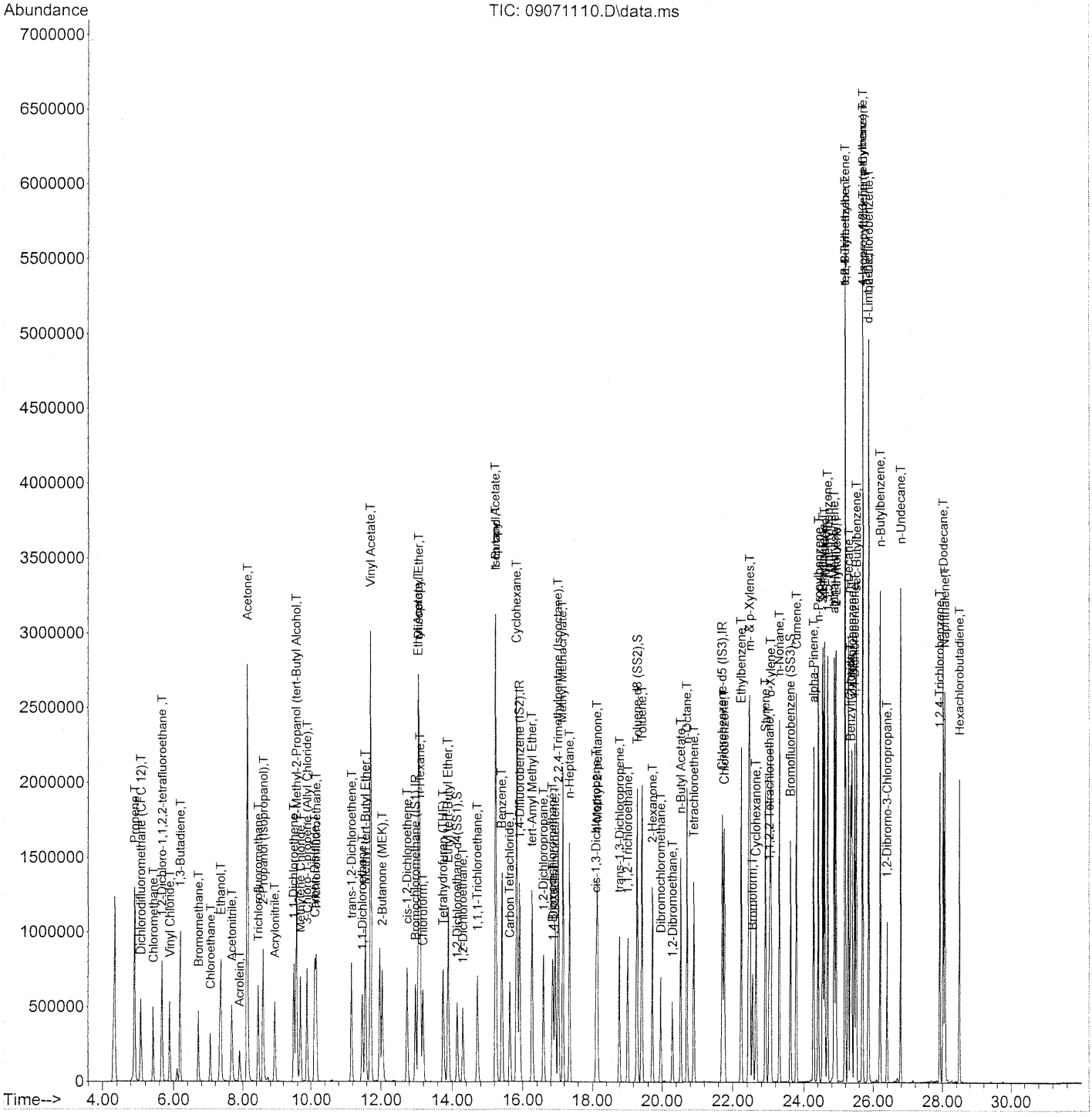
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.88	118	4294136	93.436	ng		99
81) 2-Ethyltoluene	24.93	105	8700422	88.035	ng		96
82) 1,2,4-Trimethylbenzene	25.19	105	7692509	94.231	ng		86
83) n-Decane	25.29	57	4248138	80.868	ng		97
84) Benzyl Chloride	25.36	91	6637273	95.203	ng		95
85) 1,3-Dichlorobenzene	25.39	146	4464702	91.761	ng		98
86) 1,4-Dichlorobenzene	25.47	146	4513807	90.547	ng		98
87) sec-Butylbenzene	25.52	105	9276210	88.884	ng		96
88) 4-Isopropyltoluene (p-...	25.71	119	9797515	88.823	ng		88
89) 1,2,3-Trimethylbenzene	25.71	105	7874082	93.222	ng		86
90) 1,2-Dichlorobenzene	25.88	146	4369696	92.607	ng		99
91) d-Limonene	25.88	68	3034083	90.591	ng		98
92) 1,2-Dibromo-3-Chloropr...	26.40	157	1601286	97.274	ng	#	79
93) n-Undecane	26.78	57	4329249	83.402	ng		97
94) 1,2,4-Trichlorobenzene	27.93	180	3541248	98.121	ng		100
95) Naphthalene	28.08	128	10340984	84.213	ng		99
96) n-Dodecane	28.03	57	4171402	82.377	ng		97
97) Hexachlorobutadiene	28.50	225	2209660	99.978	ng		98
98) Cyclohexanone	22.66	55	2516779	77.233	ng		94
99) tert-Butylbenzene	25.19	119	7795892	95.389	ng		95
100) n-Butylbenzene	26.20	91	7667122	90.878	ng		95

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071110.D
Acq On : 7 Sep 2011 11:40
Operator : EM/CR
Sample : 25ng TO-15 ICV STD
Misc : S25-09011101/S25-08311103
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 07 12:20:05 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 11:39:19 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071110.D
Acq On : 7 Sep 2011 11:40
Operator : EM/CR
Sample : 25ng TO-15 ICV STD
Misc : S25-09011101/S25-08311103
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 07 12:20:05 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 11:39:19 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.98	130	359170	25.000	ng		-0.01
37) 1,4-Difluorobenzene (IS2)	15.92	114	1614517	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.71	82	745853	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.14	65	511888	23.845	ng		-0.01 ✓
Spiked Amount 25.000			Recovery =	95.40%			
57) Toluene-d8 (SS2)	19.30	98	1758962	25.375	ng		0.00 ✓
Spiked Amount 25.000			Recovery =	101.52%			
73) Bromofluorobenzene (SS3)	23.62	174	638344	26.103	ng		0.00 ✓
Spiked Amount 25.000			Recovery =	104.40%			
Target Compounds							Qvalue
2) Propene	4.91	42	709684	24.667	ng		96
3) Dichlorodifluoromethan...	5.08	85	792459	22.291	ng		99
4) Chloromethane	5.42	50	622794	20.892	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.68	135	464924	23.695	ng		99
6) Vinyl Chloride	5.90	62	660752	21.623	ng		99
7) 1,3-Butadiene	6.20	54	564814	24.699	ng		96
8) Bromomethane	6.71	94	389046	23.885	ng		99
9) Chloroethane	7.06	64	355258	22.091	ng		100
10) Ethanol	7.36	45	1599188	96.190	ng		99
11) Acetonitrile	7.68	41	858152	22.230	ng		98
12) Acrolein	7.91	56	263037	20.915	ng		100
13) Acetone	8.13	58	1656096	104.112	ng		93
14) Trichlorofluoromethane	8.45	101	710408	22.228	ng		99
15) 2-Propanol (Isopropanol)	8.60	45	1613274	36.076	ng		91
16) Acrylonitrile	8.93	53	613210	23.748	ng		99
17) 1,1-Dichloroethene	9.49	96	442584	25.400	ng		99
18) 2-Methyl-2-Propanol (t...	9.57	59	2401292	49.717	ng		97
19) Methylene Chloride	9.69	84	443721	22.476	ng		90
20) 3-Chloro-1-propene (Al...	9.89	41	746342	24.146	ng		80
21) Trichlorotrifluoroethane	10.16	151	413951	24.888	ng		92
22) Carbon Disulfide	10.11	76	1574703	23.009	ng		99
23) trans-1,2-Dichloroethene	11.17	61	631320	22.489	ng		98
24) 1,1-Dichloroethane	11.48	63	779337	23.368	ng		99
25) Methyl tert-Butyl Ether	11.56	73	1419351	23.541	ng		95
26) Vinyl Acetate	11.71	86	658664	117.736	ng	#	71
27) 2-Butanone (MEK)	12.05	72	328871	23.980	ng	#	64
28) cis-1,2-Dichloroethene	12.74	61	616124	23.700	ng		94
29) Diisopropyl Ether	13.08	87	419478	24.728	ng	#	29
30) Ethyl Acetate	13.07	61	340923	45.858	ng		87
31) n-Hexane	13.11	57	849465	22.157	ng		97

EM 9/8/11

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071110.D
Acq On : 7 Sep 2011 11:40
Operator : EM/CR
Sample : 25ng TO-15 ICV STD
Misc : S25-09011101/S25-08311103
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 07 12:20:05 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 11:39:19 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.19	83	710427	24.523	ng		100
34) Tetrahydrofuran (THF)	13.75	72	294303	23.087	ng	#	74
35) Ethyl tert-Butyl Ether	13.89	87	604664	24.019	ng		90
36) 1,2-Dichloroethane	14.30	62	554957	22.838	ng		98
38) 1,1,1-Trichloroethane	14.71	97	679382	23.593	ng		97
39) Isopropyl Acetate	15.24	61	606045	48.217	ng		98
40) 1-Butanol	15.24	56	1043106	44.379	ng		97
41) Benzene	15.41	78	1803545	23.769	ng		100
42) Carbon Tetrachloride	15.64	117	592780	25.213	ng		100
43) Cyclohexane	15.84	84	1492475	45.291	ng		92
44) tert-Amyl Methyl Ether	16.27	73	1385412	23.669	ng		99
45) 1,2-Dichloropropane	16.60	63	456303	22.583	ng		99
46) Bromodichloromethane	16.85	83	569038	23.869	ng		99
47) Trichloroethene	16.93	130	519658	23.669	ng		100
48) 1,4-Dioxane	16.87	88	383925	24.376	ng		92
49) 2,2,4-Trimethylpentane...	17.03	57	2054493	21.964	ng		90
50) Methyl Methacrylate	17.17	100	451488	50.242	ng		96
51) n-Heptane	17.37	71	513123	22.788	ng		93
52) cis-1,3-Dichloropropene	18.10	75	716702	22.222	ng		99
53) 4-Methyl-2-pentanone	18.13	58	459959	23.823	ng		95
54) trans-1,3-Dichloropropene	18.79	75	734049	25.399	ng		100
55) 1,1,2-Trichloroethane	19.03	97	428359	23.353	ng		100
58) Toluene	19.43	91	1941900	24.220	ng		99
59) 2-Hexanone	19.72	43	1121027	25.116	ng		97
60) Dibromochloromethane	19.96	129	523029	26.648	ng		100
61) 1,2-Dibromoethane	20.29	107	495548	24.930	ng		100
62) n-Butyl Acetate	20.53	43	1353669	25.918	ng		97
63) n-Octane	20.70	57	428556	23.551	ng		89
64) Tetrachloroethene	20.90	166	576785	23.028	ng		100
65) Chlorobenzene	21.76	112	1262309	24.266	ng		99
66) Ethylbenzene	22.24	91	2123323	24.187	ng		98
67) m- & p-Xylenes	22.47	91	3331114	47.705	ng		92
68) Bromoform	22.56	173	472269	25.953	ng		100
69) Styrene	22.91	104	1385981	25.365	ng		95
70) o-Xylene	23.06	91	1716876	23.350	ng		93
71) n-Nonane	23.31	43	1058574	22.071	ng		91
72) 1,1,2,2-Tetrachloroethane	23.02	83	748727	22.957	ng		99
74) Cumene	23.79	105	2153713	22.909	ng		99
75) alpha-Pinene	24.28	93	1094745	23.068	ng		91
76) n-Propylbenzene	24.41	91	2609487	23.156	ng		97
77) 3-Ethyltoluene	24.54	105	2220043	23.910	ng		95
78) 4-Ethyltoluene	24.59	105	2218998	24.460	ng		100
79) 1,3,5-Trimethylbenzene	24.68	105	1873690	24.724	ng		92

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071110.D
Acq On : 7 Sep 2011 11:40
Operator : EM/CR
Sample : 25ng TO-15 ICV STD
Misc : S25-09011101/S25-08311103
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 07 12:20:05 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 11:39:19 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.86	118	1081570	25.549	ng		98
81) 2-Ethyltoluene	24.92	105	2213339	23.610	ng		98
82) 1,2,4-Trimethylbenzene	25.18	105	1906532	24.610	ng		88
83) n-Decane	25.28	57	1086482	22.772	ng		95
84) Benzyl Chloride	25.35	91	1599436	24.868	ng		96
85) 1,3-Dichlorobenzene	25.38	146	1115962	24.020	ng		99
86) 1,4-Dichlorobenzene	25.46	146	1132550	23.689	ng		99
87) sec-Butylbenzene	25.51	105	2420251	24.338	ng		97
88) 4-Isopropyltoluene (p-...	25.70	119	2432371	23.709	ng		89
89) 1,2,3-Trimethylbenzene	25.70	105	1916149	24.366	ng		88
90) 1,2-Dichlorobenzene	25.87	146	1056337	23.396	ng		100
91) d-Limonene	25.87	68	781223	25.400	ng		98
92) 1,2-Dibromo-3-Chloropr...	26.39	157	384350	24.549	ng	#	79
93) n-Undecane	26.78	57	1119723	23.981	ng		94
94) 1,2,4-Trichlorobenzene	27.92	180	806144	23.569	ng		100
95) Naphthalene	28.07	128	2370960	20.787	ng		100
96) n-Dodecane	28.02	57	1038959	24.256	ng		95
97) Hexachlorobutadiene	28.49	225	507079	23.357	ng		99
98) Cyclohexanone	22.65	55	658841	22.491	ng		94
99) tert-Butylbenzene	25.18	119	1914584	24.332	ng		97
100) n-Butylbenzene	26.20	91	1962648	24.699	ng		97

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 09071110.D **Acq. Method File:** TO15.M
Data File Path: J:\MS08\Data\2011_09\07\ **Name:** 25ng TO-15 ICV STD
Operator: EM/CR **Misc Info:** S25-09011101/S25-08311103
Date Acquired: 9/7/11 11:40 **Instrument Name:** MS08

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.91	24.7	24.8	99.6	70	130	*
3)	Dichlorodifluoromethane (CFC	5.08	22.3	24.5	91.0	70	130	*
4)	Chloromethane	5.42	20.9	23.8	87.8	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro(	5.68	23.7	25.0	94.8	70	130	*
6)	Vinyl Chloride	5.90	21.6	24.3	88.9	70	130	*
7)	1,3-Butadiene	6.20	24.7	25.5	96.9	70	130	*
8)	Bromomethane	6.71	23.9	24.3	98.4	70	130	*
9)	Chloroethane	7.06	22.1	24.5	90.2	70	130	*
10)	Ethanol	7.36	96.2	116.0	82.9	70	130	*
11)	Acetonitrile	7.68	22.2	24.3	91.4	70	130	*
12)	Acrolein	7.91	20.9	24.8	84.3	70	130	*
13)	Acetone	8.13	104.1	126.0	82.6	70	130	*
14)	Trichlorofluoromethane	8.45	22.2	25.3	87.7	70	130	*
15)	2-Propanol (Isopropanol)	8.60	36.1	47.8	75.5	70	130	*
16)	Acrylonitrile	8.93	23.7	24.8	95.6	70	130	*
17)	1,1-Dichloroethene	9.49	25.4	26.5	95.8	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.57	49.7	50.0	99.4	70	130	*
19)	Methylene Chloride	9.69	22.5	25.8	87.2	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.89	24.1	26.0	92.7	70	130	*
21)	Trichlorotrifluoroethane	10.16	24.9	25.8	96.5	70	130	*
22)	Carbon Disulfide	10.11	23.0	26.0	88.5	70	130	*
23)	trans-1,2-Dichloroethene	11.17	22.5	24.5	91.8	70	130	*
24)	1,1-Dichloroethane	11.48	23.4	25.0	93.6	70	130	*
25)	Methyl tert-Butyl Ether	11.56	23.5	24.8	94.8	70	130	*
26)	Vinyl Acetate	11.71	117.7	119.0	98.9	70	130	*
27)	2-Butanone (MEK)	12.05	24.0	25.8	93.0	70	130	*
28)	cis-1,2-Dichloroethene	12.74	23.7	25.8	91.9	70	130	*
29)	Diisopropyl Ether	13.08	24.7	25.5	96.9	70	130	*
30)	Ethyl Acetate	13.07	45.9	49.8	92.2	70	130	*
31)	n-Hexane	13.11	22.2	24.8	89.5	70	130	*
32)	Chloroform	13.19	24.5	26.8	91.4	70	130	*
34)	Tetrahydrofuran (THF)	13.75	23.1	25.3	91.3	70	130	*
35)	Ethyl tert-Butyl Ether	13.89	24.0	24.8	96.8	70	130	*
36)	1,2-Dichloroethane	14.30	22.8	25.0	91.2	70	130	*
38)	1,1,1-Trichloroethane	14.71	23.6	24.8	95.2	70	130	*
39)	Isopropyl Acetate	15.24	48.2	52.8	91.3	70	130	*
40)	1-Butanol	15.24	44.4	50.3	88.3	70	130	*
41)	Benzene	15.41	23.8	24.8	96.0	70	130	*
42)	Carbon Tetrachloride	15.64	25.2	25.3	99.6	70	130	*
43)	Cyclohexane	15.84	45.3	48.8	92.8	70	130	*
44)	tert-Amyl Methyl Ether	16.27	23.7	25.0	94.8	70	130	*
45)	1,2-Dichloropropane	16.60	22.6	24.8	91.1	70	130	*
46)	Bromodichloromethane	16.85	23.9	24.8	96.4	70	130	*
47)	Trichloroethene	16.93	23.7	24.3	97.5	70	130	*
48)	1,4-Dioxane	16.87	24.4	25.0	97.6	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	17.03	22.0	24.5	89.8	70	130	*
50)	Methyl Methacrylate	17.17	50.2	50.0	100.4	70	130	*

EM 9/8/11

Data File Name: 09071110.D
Data File Path: J:\MS08\Data\2011_09\07\
Operator: EM/CR
Date Acquired: 9/7/11 11:40

Acq. Method File: TO15.M
Name: 25ng TO-15 ICV STD
Misc Info: S25-09011101/S25-08311103
Instrument Name: MS08

#	Compound	Ret. Time	Amt. (ng)		% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	17.37	22.8	24.5	93.1	70	130	*
52)	cis-1,3-Dichloropropene	18.10	22.2	23.5	94.5	70	130	*
53)	4-Methyl-2-pentanone	18.13	23.8	25.5	93.3	70	130	*
54)	trans-1,3-Dichloropropene	18.79	25.4	26.3	96.6	70	130	*
55)	1,1,2-Trichloroethane	19.03	23.4	24.5	95.5	70	130	*
58)	Toluene	19.43	24.2	25.3	95.7	70	130	*
59)	2-Hexanone	19.72	25.1	27.8	90.3	70	130	*
60)	Dibromochloromethane	19.96	26.6	25.8	103.1	70	130	*
61)	1,2-Dibromoethane	20.29	24.9	25.0	99.6	70	130	*
62)	n-Butyl Acetate	20.53	25.9	27.5	94.2	70	130	*
63)	n-Octane	20.70	23.6	25.0	94.4	70	130	*
64)	Tetrachloroethene	20.90	23.0	23.0	100.0	70	130	*
65)	Chlorobenzene	21.76	24.3	25.3	96.0	70	130	*
66)	Ethylbenzene	22.24	24.2	24.8	97.6	70	130	*
67)	m- & p-Xylenes	22.47	47.7	49.0	97.3	70	130	*
68)	Bromoform	22.56	26.0	26.0	100.0	70	130	*
69)	Styrene	22.91	25.4	25.0	101.6	70	130	*
70)	o-Xylene	23.06	23.4	24.3	96.3	70	130	*
71)	n-Nonane	23.31	22.1	24.5	90.2	70	130	*
72)	1,1,2,2-Tetrachloroethane	23.02	23.0	24.0	95.8	70	130	*
74)	Cumene	23.79	22.9	23.8	96.2	70	130	*
75)	alpha-Pinene	24.28	23.1	23.3	99.1	70	130	*
76)	n-Propylbenzene	24.41	23.2	24.0	96.7	70	130	*
77)	3-Ethyltoluene	24.54	23.9	24.8	96.4	70	130	*
78)	4-Ethyltoluene	24.59	24.5	24.8	98.8	70	130	*
79)	1,3,5-Trimethylbenzene	24.68	24.7	25.0	98.8	70	130	*
80)	alpha-Methylstyrene	24.86	25.5	24.8	102.8	70	130	*
81)	2-Ethyltoluene	24.92	23.6	24.5	96.3	70	130	*
82)	1,2,4-Trimethylbenzene	25.18	24.6	24.3	101.2	70	130	*
83)	n-Decane	25.28	22.8	24.3	93.8	70	130	*
84)	Benzyl Chloride	25.35	24.9	25.0	99.6	70	130	*
85)	1,3-Dichlorobenzene	25.38	24.0	25.0	96.0	70	130	*
86)	1,4-Dichlorobenzene	25.46	23.7	25.8	91.9	70	130	*
87)	sec-Butylbenzene	25.51	24.3	25.0	97.2	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.70	23.7	23.5	100.9	70	130	*
89)	1,2,3-Trimethylbenzene	25.70	24.4	25.3	96.4	70	130	*
90)	1,2-Dichlorobenzene	25.87	23.4	24.8	94.4	70	130	*
91)	d-Limonene	25.87	25.4	25.0	101.6	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.39	24.5	24.5	100.0	70	130	*
93)	n-Undecane	26.78	24.0	25.0	96.0	70	130	*
94)	1,2,4-Trichlorobenzene	27.92	23.6	24.5	96.3	70	130	*
95)	Naphthalene	28.07	20.8	21.5	96.7	70	130	*
96)	n-Dodecane	28.02	24.3	22.0	110.5	70	130	*
97)	Hexachlorobutadiene	28.49	23.4	25.3	92.5	70	130	*
98)	Cyclohexanone	22.65	22.5	22.8	98.7	70	130	*
99)	tert-Butylbenzene	25.18	24.3	25.8	94.2	70	130	*
100)	n-Butylbenzene	26.20	24.7	25.8	95.7	70	130	*

EM 9/8/11

* Denotes Passing Criterion

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061101.D
Acq On : 6 Oct 2011 8:55 am
Operator : EM/CR
Sample : 25ng TO-15 CCV STD
Misc : S25-09271101/S25-09221104
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 09:28:35 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
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	100	-0.02
2	T	Propene	2.003	1.850	7.6	80	0.00
3	T	Dichlorodifluoromethane (CF	2.475	2.321	6.2	99	0.00
4	T	Chloromethane	2.075	1.944	6.3	96	0.00
5	T	1,2-Dichloro-1,1,2,2-tetraf	1.366	1.272	6.9	99	-0.01
6	T	Vinyl Chloride	2.127	1.976	7.1	99	0.00
7	T	1,3-Butadiene	1.592	1.611	-1.2	99	0.00
8	T	Bromomethane	1.134	1.095	3.4	100	0.00
9	T	Chloroethane	1.119	1.046	6.5	100	0.00
10	T	Ethanol	1.157	1.081	6.6	97	-0.08
11	T	Acetonitrile	2.687	2.471	8.0	94	-0.05
12	T	Acrolein	0.875	0.756	13.6	94	-0.02
13	T	Acetone	1.107	0.970	12.4	99	-0.05
14	T	Trichlorofluoromethane	2.225	2.142	3.7	101	0.00
15	T	2-Propanol (Isopropanol)	3.113	3.100	0.4	114	-0.07
16	T	Acrylonitrile	1.797	1.711	4.8	96	-0.04
17	T	1,1-Dichloroethene	1.213	1.186	2.2	101	-0.01
18	T	2-Methyl-2-Propanol (tert-B	3.362	3.437	-2.2	97	-0.05
19	T	Methylene Chloride	1.374	1.226	10.8	100	-0.01
20	T	3-Chloro-1-propene (Allyl C	2.151	2.139	0.6	93	-0.02
21	T	Trichlorotrifluoroethane	1.158	1.123	3.0	102	0.00
22	T	Carbon Disulfide	4.764	4.535	4.8	100	-0.01
23	T	trans-1,2-Dichloroethene	1.954	1.861	4.8	97	-0.02
24	T	1,1-Dichloroethane	2.321	2.272	2.1	99	-0.02
25	T	Methyl tert-Butyl Ether	4.197	4.058	3.3	98	-0.02
26	T	Vinyl Acetate	0.389	0.393	-1.0	101	-0.05
27	T	2-Butanone (MEK)	0.955	0.922	3.5	99	-0.03
28	T	cis-1,2-Dichloroethene	1.810	1.735	4.1	97	-0.02
29	T	Diisopropyl Ether	1.181	1.159	1.9	100	-0.02
30	T	Ethyl Acetate	0.517	0.502	2.9	97	-0.03
31	T	n-Hexane	2.669	2.512	5.9	97	-0.01
32	T	Chloroform	2.016	1.984	1.6	101	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.494	1.480	0.9	98	-0.02
34	T	Tetrahydrofuran (THF)	0.887	0.849	4.3	100	-0.02
35	T	Ethyl tert-Butyl Ether	1.752	1.718	1.9	99	-0.02
36	T	1,2-Dichloroethane	1.691	1.622	4.1	99	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	99	-0.02
38	T	1,1,1-Trichloroethane	0.446	0.435	2.5	100	-0.01

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061101.D
Acq On : 6 Oct 2011 8:55 am
Operator : EM/CR
Sample : 25ng TO-15 CCV STD
Misc : S25-09271101/S25-09221104
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 09:28:35 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
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	0.195	0.189	3.1	98	-0.03
40	T	1-Butanol	0.364	0.344	5.5	99	-0.06
41	T	Benzene	1.175	1.103	6.1	99	-0.02
42	T	Carbon Tetrachloride	0.364	0.359	1.4	99	-0.02
43	T	Cyclohexane	0.510	0.488	4.3	100	-0.02
44	T	tert-Amyl Methyl Ether	0.906	0.880	2.9	98	-0.02
45	T	1,2-Dichloropropane	0.313	0.301	3.8	98	-0.02
46	T	Bromodichloromethane	0.369	0.365	1.1	99	-0.02
47	T	Trichloroethene	0.340	0.332	2.4	102	-0.02
48	T	1,4-Dioxane	0.244	0.242	0.8	100	-0.03
49	T	2,2,4-Trimethylpentane (Iso	1.448	1.373	5.2	97	-0.02
50	T	Methyl Methacrylate	0.139	0.140	-0.7	101	-0.03
51	T	n-Heptane	0.349	0.334	4.3	98	-0.02
52	T	cis-1,3-Dichloropropene	0.499	0.486	2.6	98	-0.02
53	T	4-Methyl-2-pentanone	0.299	0.289	3.3	96	-0.02
54	T	trans-1,3-Dichloropropene	0.448	0.444	0.9	98	-0.02
55	T	1,1,2-Trichloroethane	0.284	0.276	2.8	99	-0.02
56	IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	97	-0.01
57	S	Toluene-d8 (SS2)	2.323	2.363	-1.7	99	-0.01
58	T	Toluene	2.687	2.604	3.1	99	-0.02
59	T	2-Hexanone	1.496	1.409	5.8	94	-0.02
60	T	Dibromochloromethane	0.658	0.681	-3.5	101	-0.01
61	T	1,2-Dibromoethane	0.666	0.673	-1.1	100	-0.02
62	T	n-Butyl Acetate	1.751	1.718	1.9	94	-0.02
63	T	n-Octane	0.610	0.609	0.2	97	-0.02
64	T	Tetrachloroethene	0.840	0.835	0.6	101	-0.01
65	T	Chlorobenzene	1.744	1.691	3.0	100	-0.01
66	T	Ethylbenzene	2.943	2.900	1.5	98	-0.01
67	T	m- & p-Xylenes	2.341	2.335	0.3	100	-0.02
68	T	Bromoform	0.610	0.650	-6.6	101	-0.02
69	T	Styrene	1.831	1.866	-1.9	100	-0.02
70	T	o-Xylene	2.465	2.434	1.3	100	-0.02
71	T	n-Nonane	1.608	1.523	5.3	93	-0.01
72	T	1,1,2,2-Tetrachloroethane	1.093	1.104	-1.0	98	-0.02
73	S	Bromofluorobenzene (SS3)	0.820	0.834	-1.7	101	0.00
74	T	Cumene	3.151	3.085	2.1	100	-0.01
75	T	alpha-Pinene	1.591	1.582	0.6	97	-0.01
76	T	n-Propylbenzene	3.777	3.774	0.1	99	-0.01

10/7/11

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061101.D
Acq On : 6 Oct 2011 8:55 am
Operator : EM/CR
Sample : 25ng TO-15 CCV STD
Misc : S25-09271101/S25-09221104
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 09:28:35 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
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%

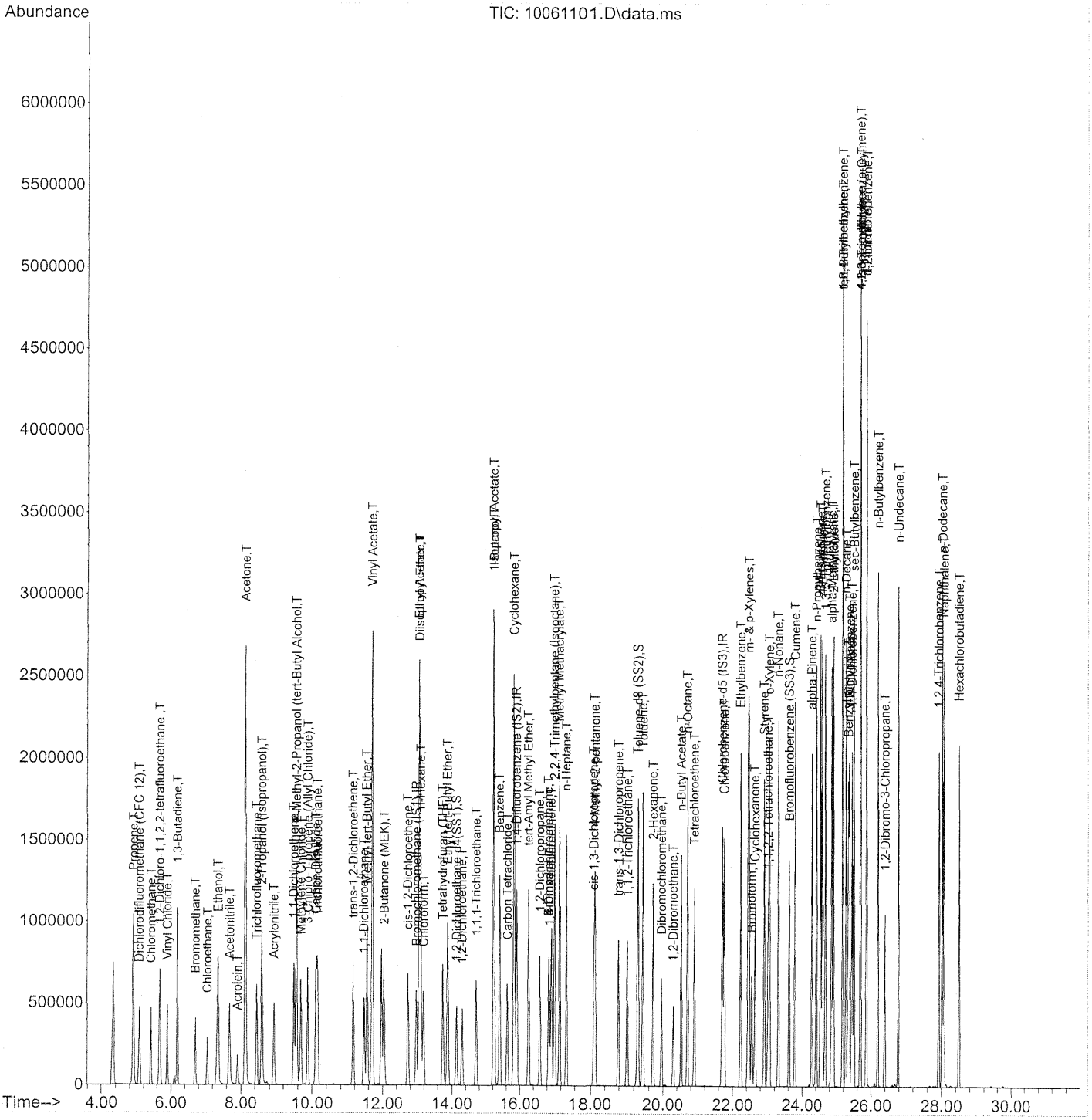
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	T	3-Ethyltoluene	3.112	3.090	0.7	98	-0.01
78	T	4-Ethyltoluene	3.041	2.964	2.5	99	-0.02
79	T	1,3,5-Trimethylbenzene	2.540	2.475	2.6	98	-0.01
80	T	alpha-Methylstyrene	1.419	1.467	-3.4	99	-0.01
81	T	2-Ethyltoluene	3.142	3.088	1.7	98	-0.02
82	T	1,2,4-Trimethylbenzene	2.597	2.589	0.3	98	-0.02
83	T	n-Decane	1.599	1.566	2.1	95	-0.02
84	T	Benzyl Chloride	2.156	2.188	-1.5	97	-0.02
85	T	1,3-Dichlorobenzene	1.557	1.477	5.1	99	-0.02
86	T	1,4-Dichlorobenzene	1.602	1.492	6.9	98	-0.02
87	T	sec-Butylbenzene	3.333	3.362	-0.9	100	-0.01
88	T	4-Isopropyltoluene (p-Cymen	3.439	3.485	-1.3	99	-0.02
89	T	1,2,3-Trimethylbenzene	2.636	2.637	-0.0	98	-0.02
90	T	1,2-Dichlorobenzene	1.513	1.459	3.6	99	-0.02
91	T	d-Limonene	1.031	1.067	-3.5	96	-0.01
92	T	1,2-Dibromo-3-Chloropropane	0.525	0.554	-5.5	99	-0.01
93	T	n-Undecane	1.565	1.560	0.3	94	-0.01
94	T	1,2,4-Trichlorobenzene	1.146	1.183	-3.2	99	-0.01
95	T	Naphthalene	3.823	3.976	-4.0	99	-0.02
96	T	n-Dodecane	1.436	1.583	-10.2	96	-0.01
97	T	Hexachlorobutadiene	0.728	0.744	-2.2	101	-0.01
98	T	Cyclohexanone	0.982	0.994	-1.2	97	-0.02
99	T	tert-Butylbenzene	2.637	2.630	0.3	100	-0.01
100	T	n-Butylbenzene	2.664	2.621	1.6	97	-0.01

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

CR 10/6/11 Eam 10/7/11

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061101.D
Acq On : 6 Oct 2011 8:55 am
Operator : EM/CR
Sample : 25ng TO-15 CCV STD
Misc : S25-09271101/S25-09221104
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 09:28:35 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061101.D
Acq On : 6 Oct 2011 8:55 am
Operator : EM/CR
Sample : 25ng TO-15 CCV STD
Misc : S25-09271101/S25-09221104
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 09:28:35 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.97	130	316508	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.91	114	1422962	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.70	82	661365	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	14.13	65	468413	24.761	ng		-0.02
Spiked Amount 25.000			Recovery =	99.04%			✓
57) Toluene-d8 (SS2)	19.30	98	1562763	25.425	ng		-0.01
Spiked Amount 25.000			Recovery =	101.68%			✓
73) Bromofluorobenzene (SS3)	23.62	174	551851	25.449	ng		0.00
Spiked Amount 25.000			Recovery =	101.80%			✓
Target Compounds							Qvalue
2) Propene	4.90	42	592690	23.378	ng		97
3) Dichlorodifluoromethan...	5.07	85	728869	23.266	ng		99
4) Chloromethane	5.42	50	590675	22.486	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.67	135	410608	23.747	ng		99
6) Vinyl Chloride	5.90	62	607869	22.574	ng		99
7) 1,3-Butadiene	6.19	54	601752	29.861	ng		96
8) Bromomethane	6.70	94	336880	23.470	ng		98
9) Chloroethane	7.05	64	321707	22.701	ng		99
10) Ethanol	7.35	45	1560344	106.504	ng		99
11) Acetonitrile	7.68	41	844659	24.830	ng		99
12) Acrolein	7.90	56	244187	22.033	ng		99
13) Acetone	8.12	58	1608661	114.761	ng		94
14) Trichlorofluoromethane	8.44	101	672605	23.882	ng		99
15) 2-Propanol (Isopropanol)	8.59	45	1785610	45.311	ng		91
16) Acrylonitrile	8.92	53	580698	25.520	ng		99
17) 1,1-Dichloroethene	9.49	96	402289	26.199	ng		96
18) 2-Methyl-2-Propanol (t...	9.56	59	2210804	51.943	ng		96
19) Methylene Chloride	9.69	84	403509	23.194	ng		85
20) 3-Chloro-1-propene (Al...	9.88	41	712174	26.146	ng		79
21) Trichlorotrifluoroethane	10.15	151	369723	25.225	ng		95
22) Carbon Disulfide	10.11	76	1492924	24.754	ng		99
23) trans-1,2-Dichloroethene	11.16	61	600722	24.283	ng		97
24) 1,1-Dichloroethane	11.46	63	727588	24.757	ng		99
25) Methyl tert-Butyl Ether	11.55	73	1325614	24.950	ng		94
26) Vinyl Acetate	11.70	86	592504	120.185	ng	#	62
27) 2-Butanone (MEK)	12.04	72	312794	25.882	ng	#	60
28) cis-1,2-Dichloroethene	12.73	61	571174	24.932	ng		92
29) Diisopropyl Ether	13.07	87	385826	25.810	ng	#	16
30) Ethyl Acetate	13.06	61	326998	49.913	ng		85
31) n-Hexane	13.11	57	811009	24.006	ng		97

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061101.D
Acq On : 6 Oct 2011 8:55 am
Operator : EM/CR
Sample : 25ng TO-15 CCV STD
Misc : S25-09271101/S25-09221104
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 09:28:35 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	13.19	83	653151	25.584	ng		100
34) Tetrahydrofuran (THF)	13.74	72	282717	25.168	ng	#	70
35) Ethyl tert-Butyl Ether	13.88	87	550270	24.804	ng	#	86
36) 1,2-Dichloroethane	14.29	62	519486	24.260	ng		99
38) 1,1,1-Trichloroethane	14.71	97	619141	24.396	ng		98
39) Isopropyl Acetate	15.23	61	561880	50.721	ng		97
40) 1-Butanol	15.23	56	965026	46.584	ng		98
41) Benzene	15.40	78	1651756	24.699	ng		100
42) Carbon Tetrachloride	15.63	117	541787	26.146	ng		100
43) Cyclohexane	15.84	84	1402567	48.293	ng		90
44) tert-Amyl Methyl Ether	16.26	73	1276700	24.748	ng		99
45) 1,2-Dichloropropane	16.59	63	427839	24.025	ng		99
46) Bromodichloromethane	16.84	83	536390	25.529	ng		100
47) Trichloroethene	16.92	130	468435	24.208	ng		99
48) 1,4-Dioxane	16.86	88	358699	25.840	ng		90
49) 2,2,4-Trimethylpentane...	17.02	57	1938132	23.510	ng		90
50) Methyl Methacrylate	17.16	100	404204	51.035	ng		100
51) n-Heptane	17.36	71	484286	24.402	ng		92
52) cis-1,3-Dichloropropene	18.09	75	658551	23.168	ng		99
53) 4-Methyl-2-pentanone	18.13	58	435633	25.601	ng		91
54) trans-1,3-Dichloropropene	18.78	75	669744	26.294	ng		100
55) 1,1,2-Trichloroethane	19.03	97	389627	24.101	ng		100
58) Toluene	19.43	91	1756520	24.707	ng		99
59) 2-Hexanone	19.71	43	1081121	27.316	ng		96
60) Dibromochloromethane	19.96	129	486194	27.936	ng		100
61) 1,2-Dibromoethane	20.29	107	450322	25.548	ng		100
62) n-Butyl Acetate	20.52	43	1295331	27.969	ng		96
63) n-Octane	20.70	57	410903	25.466	ng		87
64) Tetrachloroethene	20.90	166	514818	23.179	ng		100
65) Chlorobenzene	21.76	112	1141018	24.736	ng		100
66) Ethylbenzene	22.23	91	1917995	24.639	ng		98
67) m- & p-Xylenes	22.46	91	3057646	49.383	ng		92
68) Bromoform	22.55	173	434939	26.955	ng		99
69) Styrene	22.91	104	1258870	25.982	ng		95
70) o-Xylene	23.06	91	1577450	24.195	ng		94
71) n-Nonane	23.31	43	1007456	23.689	ng		89
72) 1,1,2,2-Tetrachloroethane	23.02	83	694940	24.030	ng		99
74) Cumene	23.79	105	1982934	23.787	ng		99
75) alpha-Pinene	24.28	93	996225	23.674	ng		92
76) n-Propylbenzene	24.41	91	2445982	24.478	ng		97
77) 3-Ethyltoluene	24.53	105	2109182	25.618	ng		98
78) 4-Ethyltoluene	24.58	105	2023119	25.149	ng		98
79) 1,3,5-Trimethylbenzene	24.68	105	1689134	25.136	ng		92

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061101.D
Acq On : 6 Oct 2011 8:55 am
Operator : EM/CR
Sample : 25ng TO-15 CCV STD
Misc : S25-09271101/S25-09221104
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 09:28:35 2011
Quant Method : J:\MS08\Methods\R8090711.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 07 15:10:42 2011
Response via : Initial Calibration

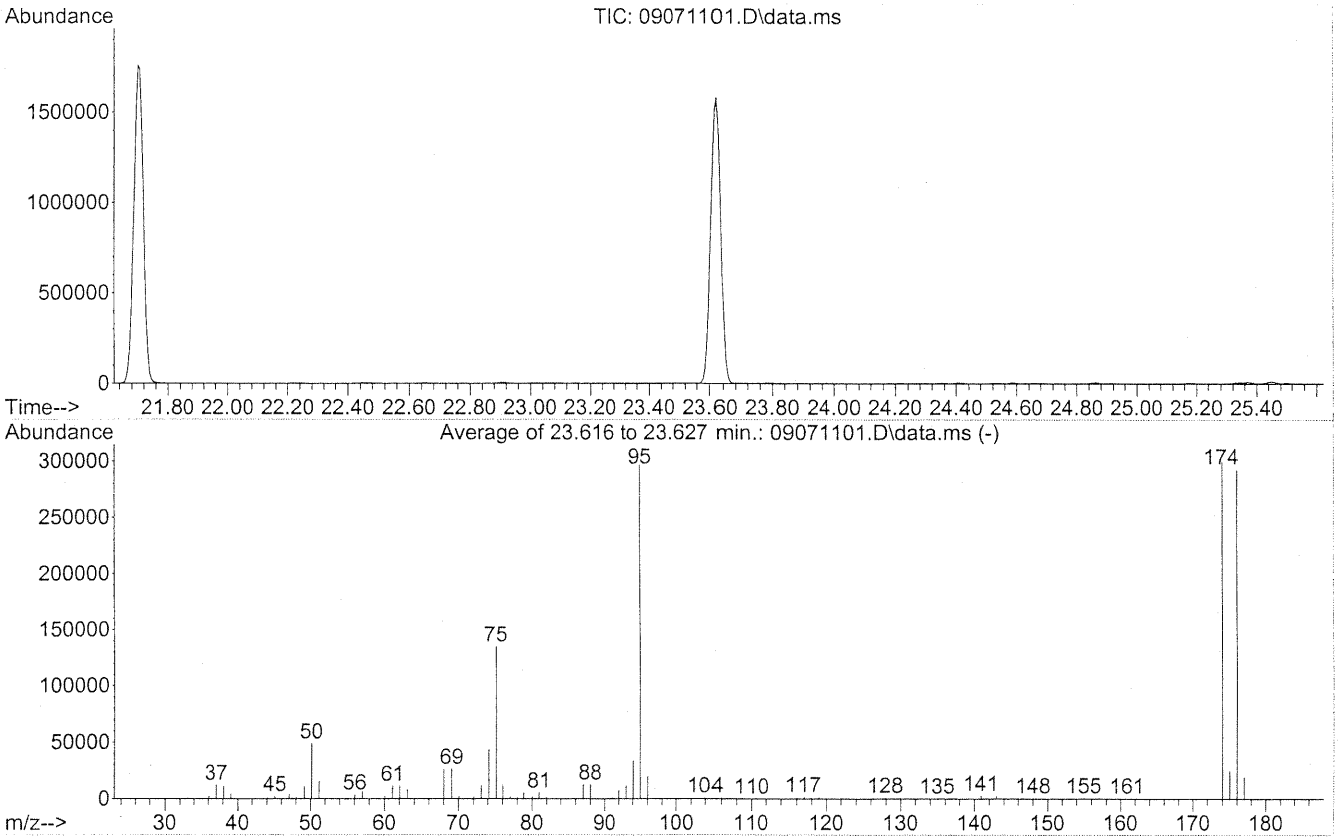
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.86	118	981624	26.151	ng	98
81) 2-Ethyltoluene	24.92	105	2042510	24.571	ng	98
82) 1,2,4-Trimethylbenzene	25.18	105	1746475	25.424	ng	89
83) n-Decane	25.27	57	1027648	24.290	ng	95
84) Benzyl Chloride	25.34	91	1493655	26.190	ng	97
85) 1,3-Dichlorobenzene	25.38	146	1008211	24.473	ng	99
86) 1,4-Dichlorobenzene	25.45	146	1018328	24.021	ng	99
87) sec-Butylbenzene	25.51	105	2294983	26.026	ng	97
88) 4-Isopropyltoluene (p-...	25.69	119	2259032	24.833	ng	89
89) 1,2,3-Trimethylbenzene	25.70	105	1778711	25.508	ng	88
90) 1,2-Dichlorobenzene	25.87	146	964698	24.096	ng	100
91) d-Limonene	25.87	68	728437	26.710	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.39	157	370461	26.685	ng	81
93) n-Undecane	26.77	57	1064439	25.709	ng	94
94) 1,2,4-Trichlorobenzene	27.92	180	797954	26.310	ng	99
95) Naphthalene	28.07	128	2398227	23.712	ng	100
96) n-Dodecane	28.02	57	1025716	27.006	ng	94
97) Hexachlorobutadiene	28.49	225	508130	26.395	ng	99
98) Cyclohexanone	22.64	55	605077	23.294	ng	93
99) tert-Butylbenzene	25.18	119	1794825	25.724	ng	97
100) n-Butylbenzene	26.19	91	1837639	26.080	ng	97

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

Data Path : J:\MS08\Data\2011_09\07\
Data File : 09071101.D
Acq On : 7 Sep 2011 5:17
Operator : EM/CR
Sample : 25ng TO-15 BFB
Misc : S25-09011101
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\Methods\R8090711.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Tue Sep 06 10:19:52 2011



AutoFind: Scans 3515, 3516, 3517; Background Corrected with Scan 3504

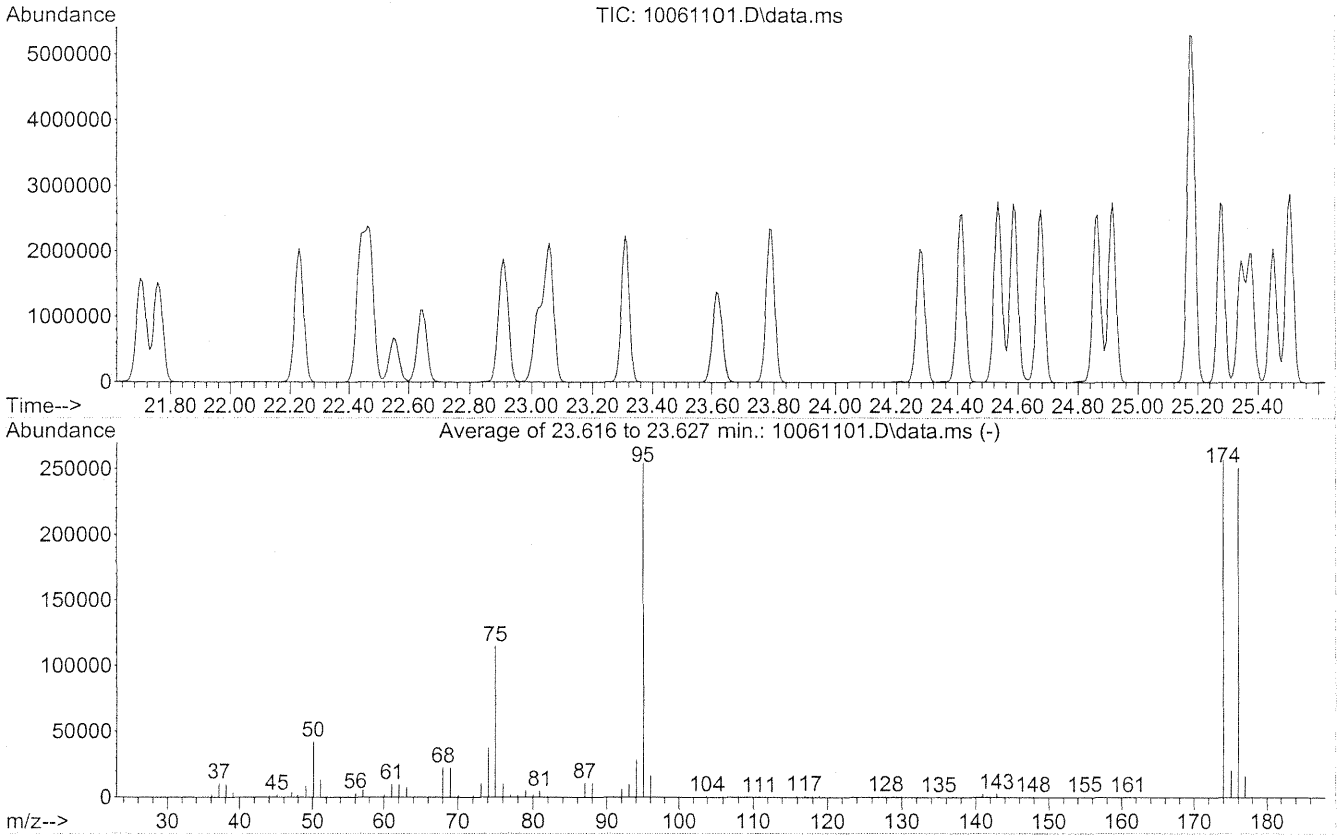
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.4	48731	PASS
75	95	30	66	45.4	134683	PASS
95	95	100	100	100.0	296640	PASS
96	95	5	9	6.5	19392	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	101.0	299712	PASS
175	174	4	9	8.1	24261	PASS
176	174	93	101	97.5	292245	PASS
177	176	5	9	6.6	19416	PASS

9/8/11

Data Path : J:\MS08\Data\2011_10\06\
Data File : 10061101.D
Acq On : 6 Oct 2011 8:55 am
Operator : EM/CR
Sample : 25ng TO-15 CCV STD
Misc : S25-09271101/S25-09221104
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\Methods\R8090711.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Wed Sep 07 15:10:42 2011



AutoFind: Scans 3515, 3516, 3517; Background Corrected with Scan 3504

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.5	42053	PASS
75	95	30	66	45.2	114869	PASS
95	95	100	100	100.0	254272	PASS
96	95	5	9	6.4	16352	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	101.0	256768	PASS
175	174	4	9	8.0	20421	PASS
176	174	93	101	97.7	250923	PASS
177	176	5	9	6.4	16032	PASS

CR 10/6/11

EM 10/7/11

180

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	9/7/11 5:17	09071101.D	25ng TO-15 BFB	S25-09011101	EM/CR	4	Passed
2	9/7/11 5:59	09071102.D	0.1ng TO-15 ICAL STD	S25-09011101/S25-09021111	EM/CR	12	
3	9/7/11 6:42	09071103.D	0.2ng TO-15 ICAL STD	S25-09011101/S25-09021111	EM/CR	12	
4	9/7/11 7:24	09071104.D	0.5ng TO-15 ICAL STD	S25-09011101/S25-09021111	EM/CR	12	ICAL
5	9/7/11 8:07	09071105.D	1.0ng TO-15 ICAL STD	S25-09011101/S25-09021111	EM/CR	12	R8090711.M
6	9/7/11 8:49	09071106.D	5.0ng TO-15 ICAL STD	S25-09011101/S25-09021104	EM/CR	15	
7	9/7/11 9:32	09071107.D	25ng TO-15 ICAL STD	S25-09011101/S25-09021104	EM/CR	15	
8	9/7/11 10:14	09071108.D	50ng TO-15 ICAL STD	S25-09011101/S25-09021104	EM/CR	15	
9	9/7/11 10:57	09071109.D	100ng TO-15 ICAL STD	S25-09011101/S25-09021104	EM/CR	15	
10	9/7/11 11:40	09071110.D	25ng TO-15 ICV STD	S25-09011101/S25-08311103	EM/CR	16	Passed

EM 9/8/11

ICAL R8090711.M Ranges: 0.2ng-100ng: Naphthalene, 1,2,4-Trichlorobenzene
0.2ng-100ng: TBA ; 0.5ng-100ng: $MeCl_2$, CS_2 ; 1.0ng-200ng: IPA

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment	CR
1	10/5/2011 8:25	10051101.D	25ng TO-15 CCV STD	S25-09271101/S25-09221104	EM/CR	4	Passed	10/6/11
2	10/5/2011 9:08	10051102.D	25ng TO-15 C3-C12 CCV STD	S25-09271101/S25-08311101	EM/CR	12	Passed	
3	10/5/2011 9:50	10051103.D	5ng TO-15 Custom CCV STD	S25-09271101/S25-09121107	EM/CR	13	Not Used	
4	10/5/2011 10:33	10051104.D	TO-15 Method Blank (1000ml)	S25-09271101	EM/CR	3	Case, file	Contaminated
5	10/5/2011 11:15	10051105.D	25ng TO-15 LCS STD (125ml)	S25-09271101/S25-09191104	EM/CR	16	Case, file	Not Valid
6	10/5/2011 11:58	10051106.D	Lab Air (500ml)	S25-09271101	EM/CR	15		
7	10/5/2011 12:40	10051107.D	TO-15 Method Blank (1000ml)	S25-09271101	EM/CR	3	Passed	
8	10/5/2011 13:36	10051108.D	Blank (200ml)	S25-09271101	EM/CR	4		
9	10/5/2011 14:21	10051109.D	Blank (200ml)	S25-09271101	EM/CR	4		
10	10/5/2011 15:03	10051110.D	P1103650-004 (6ml)		EM/CR	4		
11	10/5/2011 15:46	10051111.D	P1103650-006 (1ml)		EM/CR	4	Case, file	Bad Hand
12	10/5/2011 16:28	10051112.D	P1103650-006 (2ml)		EM/CR	4		Injection
13	10/5/2011 17:11	10051113.D	P1103800-001 (25ml)		EM/CR	5		
14	10/5/2011 17:54	10051114.D	P1103650-006 dil (1ml)		EM/CR	4		
15	10/5/2011 18:36	10051115.D	25ng TO-15 LCS STD (125ml)	S25-09271101/S25-09191104	EM/CR	16	Passed	
16	10/5/2011 19:19	10051116.D	25ng TO-15 LCSD STD (125ml)	S25-09271101/S25-09191104	EM/CR	16	Passed	
17	10/5/2011 20:02	10051117.D	Blank (200ml)	S25-09271101	EM/CR	3		
18	10/5/2011 20:44	10051118.D	P1103801-001 (400ml)		EM/CR	9		
19	10/5/2011 21:27	10051119.D	P1103801-001 dil (40ml)		EM/CR	9	Case, file	Not used.
20	10/5/2011 22:10	10051120.D	P1103801-002 (400ml)		EM/CR	10		
21	10/5/2011 22:52	10051121.D	P1103801-002 dil (40ml)		EM/CR	10	Case, file	Not used
22	10/5/2011 23:35	10051122.D	P1103801-003 (400ml)		EM/CR	11		
23	10/6/2011 0:17	10051123.D	P1103801-003 dil (40ml)		EM/CR	11	Case, file	Not used
24	10/6/2011 1:00	10051124.D	P1103800-001 (100ml)		EM/CR	5		
25	10/6/2011 1:43	10051125.D	P1103800-002 (100ml)		EM/CR	6		
26	10/6/2011 2:25	10051126.D	P1103800-003 (100ml)		EM/CR	7		EM
27	10/6/2011 3:08	10051127.D	P1103800-003 dup (100ml)		EM/CR	7	Passed	10/6/11
28	10/6/2011 3:50	10051128.D	P1103800-005 (100ml)		EM/CR	8		

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment	CR
1	10/6/2011 8:55	10061101.D	25ng TO-15 CCV STD	S25-09271101/S25-09221104	EM/CR	4	Passed	10/7/11
2	10/6/2011 9:38	10061102.D	25ng TO-15 C3-C12 CCV STD	S25-09271101/S25-08311101	EM/CR	12	Not Used	
3	10/6/2011 10:20	10061103.D	5ng TO-15 Custom CCV STD	S25-09271101/S25-09121107	EM/CR	13	Passed	EM
4	10/6/2011 11:03	10061104.D	TO-15 Method Blank (1000ml)	S25-09271101	EM/CR	3	Passed	10/7/11
5	10/6/2011 12:05	10061105.D	25ng TO-15 LCS STD (125ml)	S25-09271101/S25-09191104	EM/CR	16	Passed	
6	10/6/2011 13:08	10061106.D	Blank (200ml)	S25-09271101	EM/CR	3		
7	10/6/2011 13:51	10061107.D	P1103662-001 (1000ml)		EM/CR	1		
8	10/6/2011 14:33	10061108.D	P1103662-002 (1000ml)		EM/CR	5		
9	10/6/2011 15:16	10061109.D	P1103662-003 (1000ml)		EM/CR	6		
10	10/6/2011 15:58	10061110.D	P1103662-004 (1000ml)		EM/CR	7		
11	10/6/2011 16:41	10061111.D	P1103662-005 (1000ml)		EM/CR	8		
12	10/6/2011 17:29	10061112.D	P1103662-006 (1000ml)		EM/CR	9		

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
13	10/6/2011 18:12	10061113.D	P1103779-001 (1000ml)		EM/CR	1	
14	10/6/2011 18:54	10061114.D	P1103786-001 (1000ml)		EM/CR	5	
15	10/6/2011 19:37	10061115.D	P1103786-002 (1000ml)		EM/CR	6	
16	10/6/2011 20:19	10061116.D	P1103786-002 dup (1000ml)		EM/CR	6	Passed
17	10/6/2011 21:02	10061117.D	Lab Air (500ml)	S25-09271101	EM/CR	8	
18	10/7/2011 6:30	10061118.D	P1103662-007 (1000ml)		EM/CR	7	
19	10/7/2011 7:13	10061119.D	P1103662-008 (1000ml)		EM/CR	8	
20	10/7/2011 7:55	10061120.D	P1103662-009 (1000ml)		EM/CR	11	