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United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: **9/28/2018**

Subject: **Analytical Testing Results - Project R18S50**
SDG: 18260B

From: **Peter Husby, Director**
EPA Region 9 Laboratory
EMD-3-1

To: **Alana Lee**
California Site Cleanup Section 3
SFD-7-3

Attached are the results from the analysis of samples from the **MEW OU3 2018 Air and Sewer Gas Investigation** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Volatile Organic Compounds by GC/MS

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18260B
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	09/28/18 15:33
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
F5-060-4ft-1d	1809026-01	Radiello 130	09/13/18 15:25	09/17/18 13:33
F5-062-4ft-1d	1809026-02	Radiello 130	09/13/18 15:10	09/17/18 13:33
F6-006-4ft-1d	1809026-03	Radiello 130	09/13/18 14:50	09/17/18 13:33

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Alana Lee	**California Site Cleanup Section 3**	**SDG:** 18260B
Project Number:	R18S50	**75 Hawthorne Street**	**Reported:** 09/28/18 15:33
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1809026-01									**Radiello 130 - Sampled: 09/13/18 15:25**
Sample ID: F5-060-4ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.91		0.85	ug/m³ Air	B18I067	09/24/18	09/24/18	Radiello D1
trans-1,2-Dichloroethene		19		1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		230		1	"	"	"	"	Radiello D1
Chloroform		140		0.86	"	"	"	"	Radiello D1
Trichloroethene	RE1	590		1.9	"	"	"	09/24/18	Radiello D1
Tetrachloroethene		530		1.1	"	"	"	09/24/18	Radiello D1
Surrogate: Toluene-d8			104 %	*90-110%*		"	"	"	
Lab ID: 1809026-02									**Radiello 130 - Sampled: 09/13/18 15:10**
Sample ID: F5-062-4ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.0		0.87	ug/m³ Air	B18I067	09/24/18	09/24/18	Radiello D1
trans-1,2-Dichloroethene		13		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		180		1.1	"	"	"	"	Radiello D1
Chloroform		240		0.88	"	"	"	"	Radiello D1
Trichloroethene		340		0.95	"	"	"	"	Radiello D1
Tetrachloroethene		360		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			103 %	*90-110%*		"	"	"	
Lab ID: 1809026-03									**Radiello 130 - Sampled: 09/13/18 14:50**
Sample ID: F6-006-4ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		30		0.89	ug/m³ Air	B18I067	09/24/18	09/24/18	Radiello D1
trans-1,2-Dichloroethene		33		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		31		1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		460		1.1	"	"	"	"	Radiello D1
Chloroform		280		0.90	"	"	"	"	Radiello D1
Trichloroethene	RE1	1,600		4.9	"	"	"	09/24/18	Radiello D1
Tetrachloroethene		170		1.1	"	"	"	09/24/18	Radiello D1
Surrogate: Toluene-d8			102 %	*90-110%*		"	"	"	

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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18260B
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	09/28/18 15:33
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

Volatile Organic Compounds Collected on Passive Air Sampling Devices - Quality Control

EPA Region 9 Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B18I067 - Passive Air Sampler										
Blank (B18I067-BLK1)				Prepared & Analyzed: 09/24/18						
1,1-Dichloroethene	ND	0.13	ug/m³ Air							U
trans-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U
1,1-Dichloroethane	ND	0.16	ug/m³ Air							U
cis-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U
Chloroform	ND	0.13	ug/m³ Air							U
Trichloroethene	ND	0.14	ug/m³ Air							U
Tetrachloroethene	ND	0.17	ug/m³ Air							U
Surrogate: Toluene-d8	*1040*		ug/m³ Air	*992*		*105*	*90-110*			
LCS (B18I067-BS1)				Prepared & Analyzed: 09/24/18						
1,1-Dichloroethene	13.4	0.13	ug/m³ Air	13.1		102	49-125			
trans-1,2-Dichloroethene	15.1	0.16	ug/m³ Air	16.0		94	47-131			
1,1-Dichloroethane	18.9	0.16	ug/m³ Air	15.7		120	53-126			
cis-1,2-Dichloroethene	19.2	0.16	ug/m³ Air	16.0		120	58-127			
Chloroform	15.5	0.13	ug/m³ Air	13.2		117	61-128			
Trichloroethene	15.9	0.14	ug/m³ Air	14.4		110	65-116			
Tetrachloroethene	18.1	0.17	ug/m³ Air	16.8		108	58-118			
Surrogate: Toluene-d8	*1060*		ug/m³ Air	*992*		*107*	*90-110*			
LCS Dup (B18I067-BSD1)				Prepared & Analyzed: 09/24/18						
1,1-Dichloroethene	11.5	0.13	ug/m³ Air	13.1		88	49-125	15	38	
trans-1,2-Dichloroethene	14.3	0.16	ug/m³ Air	16.0		89	47-131	5	14	
1,1-Dichloroethane	17.2	0.16	ug/m³ Air	15.7		109	53-126	9	31	
cis-1,2-Dichloroethene	17.0	0.16	ug/m³ Air	16.0		106	58-127	12	28	
Chloroform	13.9	0.13	ug/m³ Air	13.2		105	61-128	11	20	
Trichloroethene	15.9	0.14	ug/m³ Air	14.4		110	65-116	0.1	22	
Tetrachloroethene	19.1	0.17	ug/m³ Air	16.8		114	58-118	6	24	
Surrogate: Toluene-d8	*1070*		ug/m³ Air	*992*		*107*	*90-110*			

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18260B
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	09/28/18 15:33
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

Volatile Organic Compounds Collected on Passive Air Sampling Devices - Quality Control

EPA Region 9 Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch S18I078 - B18G003										
Instrument Blank (S18I078-IBL1)				Prepared & Analyzed: 09/24/18						
1,1-Dichloroethene	ND	0.0	ug/L							U
trans-1,2-Dichloroethene	ND	0.0	ug/L							U
1,1-Dichloroethane	ND	0.0	ug/L							U
cis-1,2-Dichloroethene	ND	0.0	ug/L							U
Chloroform	ND	0.0	ug/L							U
Trichloroethene	ND	0.0	ug/L							U
Tetrachloroethene	ND	0.0	ug/L							U
Surrogate: Toluene-d8	*0.850*		ug/L	*200000*		*0.0004*	*90-110*			
Instrument Blank (S18I078-IBL2)				Prepared & Analyzed: 09/24/18						
1,1-Dichloroethene	ND	0.0	ug/L							U
trans-1,2-Dichloroethene	ND	0.0	ug/L							U
1,1-Dichloroethane	ND	0.0	ug/L							U
cis-1,2-Dichloroethene	ND	0.0	ug/L							U
Chloroform	ND	0.0	ug/L							U
Trichloroethene	ND	0.0	ug/L							U
Tetrachloroethene	ND	0.0	ug/L							U
Surrogate: Toluene-d8	*0.00*		ug/L				*90-110*			*U*

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18260B
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	09/28/18 15:33
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

Qualifiers and Comments

U	Not Detected
NR	Not Reported
RE1, RE2, etc:	Result is from a sample re-analysis.

United States Environmental Protection Agency

Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18260B
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	09/28/18 15:33
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

WORK ORDER

Printed: 9/17/2018 4:21:28PM

1809026

EPA Region 9 Laboratory

Client: **California Site Cleanup Section 3**
Project: **MEW OU3 2018 Air and Sewer Gas Investigation**
Project Number: **R18S50**

Report To:
California Site Cleanup Section 3
Alana Lee
75 Hawthorne Street
San Francisco, CA 94105
Phone: (415) 972-3141
Fax: (415) 947-3526

Project Contact
California Site Cleanup Section 3
Alana Lee
75 Hawthorne Street
San Francisco, CA 94105
Phone :(415) 972-3141
Fax: (415) 947-3526

Shipping Containers	Description	Temp C	Custody Seals?	Containers Intact?	Labels COC Agree?	Preservation Confirmed?	Received on Ice?	Comments
Box 1	Box	2	Yes	Yes	Yes	No	Yes	

Date Due:	10/01/18 17:00 (14 day TAT)	SDG:	18260B
Received By:	Susan Lepe	Date Received:	09/17/18 13:33
Logged In By:	Junn Masongsong	Date Logged In:	09/17/18 14:13

Analysis	Hold Time Expires	Comments
1809026-01 F5-060-4ft-1d [Radiello 130] Sampled 09/13/18 15:25 (GMT-08:00) Pacific Time (US &		**893JX**
VOCs, Passive Samplers	03/12/19	7 analytes
1809026-02 F5-062-4ft-1d [Radiello 130] Sampled 09/13/18 15:10 (GMT-08:00) Pacific Time (US &		**894JX**
VOCs, Passive Samplers	03/12/19	7 analytes
1809026-03 F6-006-4ft-1d [Radiello 130] Sampled 09/13/18 14:50 (GMT-08:00) Pacific Time (US &		**895JX**
VOCs, Passive Samplers	03/12/19	7 analytes

Reviewed By

Date

U.S. Environmental Protection Agency

CHAIN OF CUSTODY RECORD

EPA REGION 9
75 Hawthorne Street
San Francisco, California 94105

Project / Case Number: MEW - 09M6 OU3 / R18S50

EPA 2018 Pathway Sampling - MEW Superfund Area OU3

EPA Project Manager contact: Alana Lee, 415-972-3141 Lee.Alana@epa.gov

EPA R9 Richmond Laboratory

Samplers: *(Signature)* Alana Lee

Analysis Requested: TCE, PCE, cis-trans,1,2-DCE, 1,1-DCE, 1,1-DCA, chloroform (preliminary TCE: 14 day TAT)

Start Date /Time	End Date/Time	Matrix	Comp	Grab	EPA ID Number	Unique ID	Number of Containers	RAD130 - Solvent Extraction	VOC or TCE Screen (ug/m3)	AVG Temperature (deg F)
9/12/2018 13:10	9/13/2018 15:25	Air	X		F5-060-4ft-1d	893JX	1	X	500	72
9/12/2018 13:30	9/13/2018 15:10	Air	X		F5-062-4ft-1d	894JX	1	X	100	72
9/12/2018 13:50	9/13/2018 14:50	Air	X		F6-006-4ft-1d	895JX	1	X	800	72

9/13/2018

Alana Lee

Relinquished by: *(Signature)* Alana Lee Date/Time 9/17/2018 1332 hand delivery

Received by: *(Signature)* Date/Time

Relinquished by: *(Signature)* Date/Time

Received for Laboratory by: *(Signature)* Date/Time SZyr 9/17/18 1333

Temp

Seals Intact? (Y/N)

Conditions / Remarks

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Cooler/Box/Env 1 of 1

U.S. Environmental Protection Agency
Region 9 Richmond Laboratory

1337 South 46th Street
Richmond, CA 94804

Sample Receipt Checklist

Note in WO memo any items outside acceptable limits.

Project No: R18550 **Work Order No(s):** 1809026 **Date:** 9/17/18 **by** SL

CUSTODY SEALS Are Intact? ☒ Yes ☐ No ☒ N/A-none SL 9/17/18

Check if applies: ☐ External Seals ☒ Internal Seals ☒ Hand Delivered

TEMPERATURE 2 °C

Within Acceptable Range? (If preservation is "store cool at 4°C," use 0-6°C for acceptable range.) ☒ Yes ☐ No ☐ Ambient OK

Measured by: ☒ IR thermometer ☐ Probe thermometer inserted in provided temp. blank

☐ Provided Temp Blank was not used because _____

Check if applies: ☐ No ice present ☐ Insufficient/Melted Ice ☐ Tissue Received Frozen

☐ Still cooling (sampled today & iced) ☐ Delivery Delay ☐ Previously Frozen

SAMPLE CONTAINERS Are Intact? ☒ Yes ☐ No

Check if applies and identify sample IDs in comments:

☐ Bottle/Jar/Vial broken ☐ Cap broken or loose ☐ Insufficient sample amount

☐ Other _____

CHAIN OF CUSTODY

COC forms are present? ☒ Yes ☐ No

COC forms are consistent with sample labels? ☒ Yes ☐ No ☐ N/A-no COC form

Check if applies: ☐ Missing "relinquished by" signature

TAT and analyses match TDF or scheduling? ☒ Yes ☐ No

Check if applies: ☐ Preliminary Results ☐ Rush Request ☐ 7-day TAT

Samples are received within hold times? ☒ Yes ☐ No ☐ N/A-no hold times

Check if applies: ☐ Expires today; notify analyst ☐ Expired

All shipping and sample containers are accounted for? ☒ Yes ☐ No

PRESERVATION / FILTRATION

Samples were filtered in field? ☐ Yes ☐ No ☒ N/A

Filtration is correctly identified on samples? ☐ Yes ☐ No ☒ N/A

Check if applies: ☐ Analyst to filter

Samples were preserved in field? ☐ Yes ☐ No ☒ N/A

Check if applies: ☐ Analyst to preserve ☐ Sample Receiving to preserve (see page 2)

Preservation is correctly identified on samples? ☐ Yes ☐ No ☒ N/A

Field-preserved samples (excluding VOA vials for VOC analyses) have correct pH? ☐ Yes ☐ No ☒ N/A

Check if applies: ☐ Notify analyst to check for methyl mercury analysis

Check if verified:

Sulfide: ☐ pH >9 NaOH/Zinc acetate

Cyanide: ☐ pH >12 NaOH

Cr6: ☐ pH >8.5 (if <8.5, adjust to 8.5-9.5)

Metals: ☐ pH <2 HNO_3

TOC/DOC: ☐ pH <2 H_2SO_4/H_3PO_4 (not HCl)

Ferrous Iron: ☐ pH <2 HCl

Ammonia / Nitrate/Nitrite / TKN / Phosphorus: ☐ pH <2 H_2SO_4

Other: _____

FOLLOW-UP / COMMENTS / UNUSUAL CHARACTERISTICS OBSERVED (for example, sample is pink):

_____

FORM #: Q016
REV #: DRAFT

Exposure Time in Minutes

	Sample number	Retrieved Date (XX/XX/XXXX)	Retrieved Time	Deployed Date	Deployed Time	Minutes	Start temp C	End temp C	Avg temp K	Plate #
1	F5-060-4ft-1d	09/13/18	15:25	09/12/18	13:10	1575	22.22	22.22	295.37	893JX
2	F5-062-4ft-1d	09/13/18	15:10	09/12/18	13:30	1540	22.22	22.22	295.37	894JX
3	F6-006-4ft-1d	09/13/18	14:50	09/12/18	13:50	1500	22.22	22.22	295.37	895JX

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BATCH

B18I067

Batch Date: 09/24/2018

Batch Matrix: Radiello 130

Batch Analyses:

VOCs, Passive Samplers

PREPARATION BENCH SHEET

B18I067

EPA Region 9 Laboratory

Project: R18S50

Printed: 9/26/2018 4:31:29PM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sampler** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 1823097**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Prepared by	Extraction Comments
1809026-01 A	F5-060-4ft-1d	09/24/18 10:34	1	2				50	RH	7 analytes
1809026-01RE1 A	F5-060-4ft-1d	09/24/18 10:34	1	2				50	RH	Added 9/26/2018 by RH
1809026-02 A	F5-062-4ft-1d	09/24/18 10:34	1	2				50	RH	7 analytes
1809026-03 A	F6-006-4ft-1d	09/24/18 10:34	1	2				50	RH	7 analytes
1809026-03RE1 A	F6-006-4ft-1d	09/24/18 10:34	1	2				50	RH	Added 9/26/2018 by RH
B18I067-BLK1	Blank	09/24/18 10:34	1	2				50	RH	
B18I067-BS1	LCS	09/24/18 10:34	1	2		1752052	5	50	RH	
B18I067-BSD1	LCS Dup	09/24/18 10:34	1	2		1752052	5	50	RH	
B18I067-MRL1	MRL Check	09/24/18 10:34	1	2		1835067	5	50	RH	

Batch Comments

Reagents

Reagent #	Description
1813068	Carbon disulfide
1835089	passive air Radiello tubes

Batch Approval: AS 9/26/18

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PREPARATION BENCH SHEET

B18I067

EPA Region 9 Laboratory

Project: R18S50

Printed: 9/26/2018 4:31:29PM

Matrix: Radiello 13 **Analysis: QC** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 1823097**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Prepared by	Extraction Comments

Batch Approval: AS 9/26/18

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Calibration

1806010

Calibration Date: 06/15/2018

Instrument: AG5975CV

Calibration Analyses:

VOCs, Passive Samplers

Response Factor Report AG5975C

Method Path : C:\msdchem\1\Ravioli Methods\2018\
Method File : 061218.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Thu Jun 14 17:09:21 2018
Response Via : Initial Calibration

Calibration Files
25 =06121803.D 10 =06121804.D 5 =06121805.D 1 =06121806.D .15 =06121807.D .05 =06121808.D

		Compound	25	10	5	1	.15	.05	Avg	%RSD
1)	I	2-Fluorotoluene	----------ISTD----------							
2)	T	1,1-Dichloroet...	0.213	0.213	0.230	0.188	0.216	0.196	0.210	7.13
3)	T	trans-1,2-Dich...	0.226	0.225	0.242	0.207	0.227	0.215	0.224	5.27
4)	T	1,1-Dichloroet...	0.276	0.277	0.298	0.256	0.286	0.277	0.278	4.91
5)	T	cis-1,2-Dichlo...	0.266	0.267	0.287	0.251	0.280	0.296	0.275	5.88
6)	T	Chloroform	0.284	0.285	0.303	0.275	0.303	0.324	0.296	5.98
7)	T	1,1,1-Trichlor...	0.281	0.283	0.300	0.279	0.285	0.317	0.291	5.07
8)	T	Carbon tetrach...	0.265	0.266	0.279	0.262	0.284	0.297	0.276	4.89
9)	T	Benzene	0.747	0.757	0.799	0.777	0.933		0.803	9.42
10)	T	1,2-Dichloroet...	0.246	0.252	0.268	0.252	0.273	0.260	0.259	4.03
11)	T	Trichloroethene	0.213	0.214	0.223	0.218	0.225	0.232	0.221	3.26
12)	S	Toluene-d8	0.792	0.795	0.799	0.830	0.830	0.827	0.812	2.26
13)	T	Toluene	0.956	0.979	0.995	1.061	1.146	1.397	1.089	15.23
14)	T	1,1,2-Trichlor...	0.215	0.213	0.213	0.222	0.230	0.257	0.225	7.56
15)	T	Tetrachloroethene	0.294	0.295	0.292	0.314	0.316	0.330	0.307	5.06
16)	T	Chlorobenzene	0.747	0.748	0.732	0.800	0.804	0.832	0.777	5.17
17)	T	1,1,1,2-Tetrac...	0.254	0.253	0.248	0.272	0.275	0.282	0.264	5.28
18)	T	Ethylbenzene	1.200	1.222	1.202	1.369	1.384	1.463	1.307	8.62
19)	T	m&p-Xylene	0.925	0.947	0.929	1.072	1.077	1.102	1.009	8.25
)	T	o-Xylene	1.010	1.014	0.974	1.124	1.137	1.151	1.068	7.24
)	T	1,1,2,2-Tetrac...	0.450	0.444	0.425	0.484	0.484	0.474	0.460	5.28
)	T	1,3,5-Trimethy...	1.115	1.135	1.069	1.276	1.320	1.337	1.209	9.58
)	T	1,2,4-Trimethy...	1.129	1.153	1.076	1.295	1.298	1.302	1.209	8.37
)	T	Naphthalene	1.798	1.871	1.650	2.159	2.157	2.268	1.984	12.35
)		2-Fluorotoluen...			0.583				0.583	0.00
)		1,1-Dichloroet...			0.145				0.145	0.00
)		trans-1,2-Dich...			0.169				0.169	0.00
)		1,1-Dichloroet...			0.215				0.215	0.00
)		cis-1,2-Dichlo...			0.186				0.186	0.00
)		Chloroform SCAN			0.229				0.229	0.00
)		1,1,1-Trichlor...			0.203				0.203	0.00
)		Carbon tetrach...			0.200				0.200	0.00
)		Benzene SCAN			0.607				0.607	0.00
)		1,2-Dichloroet...			0.207				0.207	0.00
)		Trichloroethen...			0.148				0.148	0.00
)		Toluene-d8 SCAN			0.527				0.527	0.00
)		Toluene SCAN			0.673				0.673	0.00
)		1,1,2-Trichlor...			0.129				0.129	0.00
)		Tetrachloroeth...			0.148				0.148	0.00
)		Chlorobenzene ...			0.408				0.408	0.00
)		1,1,1,2-Tetrac...			0.146				0.146	0.00
)		Ethylbenzene SCAN			0.782				0.782	0.00

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Response Factor Report AG5975C

Method Path : C:\msdchem\1\Ravioli Methods\2018\
Method File : 061218.M

43)	m&p-Xylene SCAN	1.086	1.086	0.00
44)	o-Xylene SCAN	0.618	0.618	0.00
45)	1,1,2,2-Tetrac...	0.293	0.293	0.00
46)	1,3,5-Trimethy...	0.613	0.613	0.00
47)	1,2,4-Trimethy...	0.628	0.628	0.00
48)	Naphthalene SCAN	0.896	0.896	0.00

(#) = Out of Range

Page 18 of 707 1809026 DATA_PKG (Rev0).PDF 09/28/18 15:57:30

Table of Contents

Method Path : C:\msdchem\1\Ravioli Methods\2018\
Method File : 061218.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Thu Jun 14 17:09:21 2018
Response Via : Initial Calibration

Total Cpnds : 48

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	2-Fluorotoluene	-109	11.033	1.000	A	1	A	B
2	T	1,1-Dichloroethene	-61	3.104	0.281	A	1	A	B
3	T	trans-1,2-Dichloroethene	-61	4.323	0.392	A	1	A	B
4	T	1,1-Dichloroethane	-63	5.079	0.460	A	1	A	B
5	T	cis-1,2-Dichloroethene	-61	6.108	0.554	A	1	A	B
6	T	Chloroform	-83	6.688	0.606	A	1	A	B
7	T	1,1,1-Trichloroethane	-97	6.944	0.629	A	2	A	B
8	T	Carbon tetrachloride	-117	7.223	0.655	A	1	A	B
9	T	Benzene	-78	7.552	0.684	A	1	A	B
10	T	1,2-Dichloroethane	-62	7.588	0.688	A	1	A	B
11	T	Trichloroethene	-130	8.629	0.782	A	3	A	B
12	S	Toluene-d8	-98	10.550	0.956	A	1	A	B
13	T	Toluene	-91	10.645	0.965	A	1	A	B
14	T	1,1,2-Trichloroethane	-97	11.295	1.024	A	1	A	B
15	T	Tetrachloroethene	-166	11.495	1.042	A	1	A	B
16	T	Chlorobenzene	-112	12.837	1.163	A	1	A	B
17	T	1,1,1,2-Tetrachloroethane	-131	12.988	1.177	A	1	A	B
18	T	Ethylbenzene	-91	13.043	1.182	A	2	A	B
19	T	m&p-Xylene	-91	13.234	1.199	A	2	A	B
20	T	o-Xylene	-91	13.854	1.256	A	1	A	B
21	T	1,1,2,2-Tetrachloroethane	-83	14.951	1.355	A	1	A	B
22	T	1,3,5-Trimethylbenzene	-105	15.414	1.397	A	1	A	B
23	T	1,2,4-Trimethylbenzene	-105	15.955	1.446	A	1	A	B
24	T	Naphthalene	-128	17.936	1.626	A	1	A	B
25		2-Fluorotoluene SCAN	109	11.042	1.001	A	1	A	B
26		1,1-Dichloroethene SCAN	61	3.111	0.282	A	2	A	B
27		trans-1,2-Dichloroethene SCAN	61	4.335	0.393	A	2	A	B
28		1,1-Dichloroethane SCAN	63	5.084	0.461	A	2	A	B
29		cis-1,2-Dichloroethene SCAN	61	6.113	0.554	A	3	A	B
30		Chloroform SCAN	83	6.699	0.607	A	2	A	B
31		1,1,1-Trichloroethane SCAN	97	6.954	0.630	A	2	A	B
32		Carbon tetrachloride SCAN	117	7.222	0.655	A	3	A	B
33		Benzene SCAN	78	7.563	0.685	A	3	A	B
34		1,2-Dichloroethane SCAN	62	7.599	0.689	A	2	A	B
35		Trichloroethene SCAN	130	8.633	0.783	A	3	A	B
36		Toluene-d8 SCAN	98	10.549	0.956	A	1	A	B
37		Toluene SCAN	91	10.654	0.966	A	2	A	B
38		1,1,2-Trichloroethane SCAN	97	11.305	1.025	A	3	A	B
39		Tetrachloroethene SCAN	166	11.493	1.042	A	3	A	B
40		Chlorobenzene SCAN	112	12.843	1.164	A	3	A	B
41		1,1,1,2-Tetrachloroethane SCAN	131	12.986	1.177	A	3	A	B
42		Ethylbenzene SCAN	91	13.050	1.183	A	2	A	B
43		m&p-Xylene SCAN	91	13.233	1.199	A	3	A	B
44		o-Xylene SCAN	91	13.852	1.256	A	2	A	B
45		1,1,2,2-Tetrachloroethane SCAN	83	14.953	1.355	A	2	A	B
46		1,3,5-Trimethylbenzene SCAN	105	15.413	1.397	A	2	A	B
47		1,2,4-Trimethylbenzene SCAN	105	15.954	1.446	A	3	A	B
48		Naphthalene SCAN	128	17.935	1.626	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

061218.M Fri Jun 15 13:36:51 2018

CHEMSTATION CONCENTRATION REPORT

AG5975C
S18F027-SCV1
1824014 5 mg/L
6/12/2018
Thu Jun 14 17:09:21 2018
RH

#	Name	L1	L2	L3	L4	L5	L6
1)	2-Fluorotoluene	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00
2)	1,1-Dichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
3)	trans-1,2-Dichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
4)	1,1-Dichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
5)	cis-1,2-Dichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
6)	Chloroform	25000.00	10000.00	5000.00	1000.00	150.00	50.00
7)	1,1,1-Trichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
8)	Carbon tetrachloride	25000.00	10000.00	5000.00	1000.00	150.00	50.00
9)	Benzene	25000.00	10000.00	5000.00	1000.00	150.00	1.00
10)	1,2-Dichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
11)	Trichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
12)	Toluene-d8	25000.00	10000.00	5000.00	1000.00	150.00	50.00
13)	Toluene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
14)	1,1,2-Trichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
15)	Tetrachloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
16)	Chlorobenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
17)	1,1,1,2-Tetrachloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
18)	Ethylbenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
19)	m&p-Xylene	50000.00	20000.00	10000.00	2000.00	300.00	100.00
20)	o-Xylene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
21)	1,1,2,2-Tetrachloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
22)	1,3,5-Trimethylbenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
23)	1,2,4-Trimethylbenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
24)	Naphthalene	25000.00	10000.00	5000.00	1000.00	150.00	50.00

CHEMSTATION AREA COUNT REPORT

AG5975C
S18F027-SCV1
1824014 5 mg/L
6/12/2018
Thu Jun 14 17:09:21 2018
RH

#	Name	L1	L2	L3	L4	L5	L6
1)	2-Fluorotoluene	98303	97466	125252	93886	75573	90218
2)	1,1-Dichloroethene	104903	41597	28786	3535	490	177
3)	trans-1,2-Dichloroethene	110884	43784	30328	3894	514	194
4)	1,1-Dichloroethane	135510	53982	37306	4812	648	250
5)	cis-1,2-Dichloroethene	130812	52074	35899	4717	635	267
6)	Chloroform	139759	55518	37972	5164	686	292
7)	1,1,1-Trichloroethane	138195	55136	37566	5246	647	286
8)	Carbon tetrachloride	130484	51863	34885	4928	644	268
9)	Benzene	367224	147574	100093	14597	2116	1081
10)	1,2-Dichloroethane	121027	49173	33538	4735	620	235
11)	Trichloroethene	104634	41671	27883	4093	510	209
12)	Toluene-d8	389441	155045	100060	15581	1881	746
13)	Toluene	469703	190743	124649	19927	2599	1260
14)	1,1,2-Trichloroethane	105602	41502	26724	4175	521	232
15)	Tetrachloroethene	144527	57486	36572	5891	716	298
16)	Chlorobenzene	367103	145755	91730	15016	1823	751
17)	1,1,1,2-Tetrachloroethane	124611	49286	31077	5102	623	254
18)	Ethylbenzene	590019	238277	150614	25697	3137	1320
19)	m&p-Xylene	909304	369040	232657	40266	4884	1988
20)	o-Xylene	496296	197596	121997	21104	2578	1038
21)	1,1,2,2-Tetrachloroethane	220972	86561	53187	9080	1097	428
22)	1,3,5-Trimethylbenzene	548060	221338	133833	23961	2992	1206
23)	1,2,4-Trimethylbenzene	555158	224846	134728	24317	2942	1175
24)	Naphthalene	883987	364789	206607	40548	4891	2046

Table of Contents

Method Path : C:\MSDCHEM\1\RAVIOLI METHODS\2018\
Method File : 062818.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Thu Jun 28 07:20:56 2018
Response Via : Initial Calibration

RT updated only TD

Calibration Files
25 =06121803.D 10 =06121804.D 5 =06271803.D 1 =06121806.D .15 =06121807.D .05 =0612

		Compound	25	10	5	1	.15	.05	Avg	%RSD
1)	I	2-Fluorotoluene	----------ISTD----------							
2)	T	1,1-Dichloroet...	0.213	0.213	0.230	0.188	0.216	0.196	0.210	7.13
3)	T	trans-1,2-Dich...	0.226	0.225	0.242	0.207	0.227	0.215	0.224	5.27
4)	T	1,1-Dichloroet...	0.276	0.277	0.298	0.256	0.286	0.277	0.278	4.91
5)	T	cis-1,2-Dichlo...	0.266	0.267	0.287	0.251	0.280	0.296	0.275	5.88
6)	T	Chloroform	0.284	0.285	0.303	0.275	0.303	0.324	0.296	5.98
7)	T	1,1,1-Trichlor...	0.281	0.283	0.300	0.279	0.285	0.317	0.291	5.07
8)	T	Carbon tetrach...	0.265	0.266	0.279	0.262	0.284	0.297	0.276	4.89
9)	T	Benzene	0.747	0.757	0.799	0.777	0.933		0.803	9.42
10)	T	1,2-Dichloroet...	0.246	0.252	0.268	0.252	0.273	0.260	0.259	4.03
11)	T	Trichloroethene	0.213	0.214	0.223	0.218	0.225	0.232	0.221	3.26
12)	S	Toluene-d8	0.792	0.795	0.799	0.830	0.830	0.827	0.812	2.26
13)	T	Toluene	0.956	0.979	0.995	1.061	1.146	1.397	1.089	15.23
14)	T	1,1,2-Trichlor...	0.215	0.213	0.213	0.222	0.230	0.257	0.225	7.56
15)	T	Tetrachloroethene	0.294	0.295	0.292	0.314	0.316	0.330	0.307	5.06
16)	T	Chlorobenzene	0.747	0.748	0.732	0.800	0.804	0.832	0.777	5.17
17)	T	1,1,1,2-Tetrac...	0.254	0.253	0.248	0.272	0.275	0.282	0.264	5.28
18)	T	Ethylbenzene	1.200	1.222	1.202	1.369	1.384	1.463	1.307	8.62
19)	T	m&p-Xylene	0.925	0.947	0.929	1.072	1.077	1.102	1.009	8.25
20)	T	o-Xylene	1.010	1.014	0.974	1.124	1.137	1.151	1.068	7.24
21)	T	1,1,2,2-Tetrac...	0.450	0.444	0.425	0.484	0.484	0.474	0.460	5.28
22)	T	1,3,5-Trimethy...	1.115	1.135	1.069	1.276	1.320	1.337	1.209	9.58
23)	T	1,2,4-Trimethy...	1.129	1.153	1.076	1.295	1.298	1.302	1.209	8.37
24)	T	Naphthalene	1.798	1.871	1.650	2.159	2.157	2.268	1.984	12.35
25)		2-Fluorotoluen...			0.583				0.583	0.00
26)		1,1-Dichloroet...			0.145				0.145	0.00
27)		trans-1,2-Dich...			0.169				0.169	0.00
28)		1,1-Dichloroet...			0.215				0.215	0.00
29)		cis-1,2-Dichlo...			0.186				0.186	0.00
30)		Chloroform SCAN			0.229				0.229	0.00
31)		1,1,1-Trichlor...			0.203				0.203	0.00
32)		Carbon tetrach...			0.200				0.200	0.00
33)		Benzene SCAN			0.607				0.607	0.00
34)		1,2-Dichloroet...			0.207				0.207	0.00
35)		Trichloroethen...			0.148				0.148	0.00
36)		Toluene-d8 SCAN			0.527				0.527	0.00
37)		Toluene SCAN			0.673				0.673	0.00
38)		1,1,2-Trichlor...			0.129				0.129	0.00
39)		Tetrachloroeth...			0.148				0.148	0.00
40)		Chlorobenzene ...			0.408				0.408	0.00
41)		1,1,1,2-Tetrac...			0.146				0.146	0.00
42)		Ethylbenzene SCAN			0.782				0.782	0.00
43)		m&p-Xylene SCAN			1.086				1.086	0.00
44)		o-Xylene SCAN			0.618				0.618	0.00
45)		1,1,2,2-Tetrac...			0.293				0.293	0.00
46)		1,3,5-Trimethy...			0.613				0.613	0.00
47)		1,2,4-Trimethy...			0.628				0.628	0.00
48)		Naphthalene SCAN			0.896				0.896	0.00

(#) = Out of Range

062818.M Tue Sep 04 12:06:33 2018

SEQUENCE

S18F027

Sequence Date: 06/12/2018

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	ICAL	SEQUENCE #:	S18F027 6/12/18
BATCH #:		ANALYSIS:	VOA Passive Air.

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
DOCUMENTATION	ANALYST: Bench sheet(s) attached? REVIEWER: Bench sheet(s) reviewed?	✔			
	ANALYST: Sequence log(s) attached? REVIEWER: Sequence log(s) reviewed?		Y	Y	
	ANALYST: Every run has a PDF in LIMS? REVIEWER: Every PDF reviewed?		Y	Y	
INITIAL CALIBRATION	Date of Initial Calibration used: If applicable, note date of "Last Update" in Comments.	Thu Jun 14 17:09:21 2018			
	Initial Calibration ID (LIMS number):	1806010			
	ICAL within QC criteria?		Y	Y	
	SCV within QC criteria?		Y	Y	
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?		Y	Y	
	CCV(s) within QC criteria?	✔			
	QLS(s) within QC criteria?	✔			
	CB(s) or storage blank(s) within QC criteria?	✔			
	Other instrument checks within QC criteria? Specify if applicable.	✔			
BATCH QCs	Method blanks < 1/2 QL?	✔			
	LCS(s) or SRM(s) within QC criteria?	✔			
	MSs/MSDs and/or DUPs within QC criteria?	✔			
	Other method-specific QCs within QC criteria? Specify if applicable.	✔			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	ICAL	SEQUENCE #:	S18F027 6/12/18
BATCH #:		ANALYSIS:	VOA Passive Air.

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☑			
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☑			
	If samples need to be re-run, were RE(s) made in LIMS?	☑			
	Do any samples need to be re-digested or re-extracted?	☑			
	Were all data qualifiers appropriately applied?	☑			
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	☑			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	

APPROVALS	ANALYST INITIALS & DATE:	RH 6/15/18
	REVIEWED BY:	Ziyad Rajabi (affiliate) Digitally signed by Ziyad Rajabi (affiliate) Date: 2018.06.20 10:21:34 -07'00' SIGN HERE

COMMENTS

Injection Log

Operator: RH
Directory: C:\msdchem\1\Ravioli Data\2018\061218\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	06121801.D	1	S18F027-IBL1		12 Jun 2018 13:13
2	06121802.D	1	S18F027-TUN1	BFB 1806045	12 Jun 2018 13:34
3	06121803.D	1	S18F027-CAL1	1823098 25 mg/L	12 Jun 2018 13:44
4	06121804.D	1	S18F027-CAL2	1823099 10 mg/L	12 Jun 2018 14:07
5	06121805.D	1	S18F027-CAL3	1823100 5 mg/L	12 Jun 2018 14:31
6	06121806.D	1	S18F027-CAL4	1823101 1 mg/L	12 Jun 2018 14:55
7	06121807.D	1	S18F027-CAL5	1823102 0.15 mg/L	12 Jun 2018 15:19
8	06121808.D	1	S18F027-CAL6	1823103 0.05 mg/L	12 Jun 2018 15:42
9	06121809.D	1	S18F027-SCV1	1824014 5 mg/L	12 Jun 2018 16:06

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2018\061218\06121802.D
Tune Time : 12 Jun 2018 13:34

Daily Calibration File : C:\msdchem\1\Ravioli Data\2018\061218\06121805.D

File	Sample	Surrogate Recovery %	Internal Standard Responses
			125252
06121803.D			
	S18F027-CA	488*	98303
06121804.D			
	S18F027-CA	196*	97466
06121805.D			
	S18F027-CA	98	125252
06121806.D			
	S18F027-CA	20*	93886
06121807.D			
	S18F027-CA	3*	75573
06121808.D			
	S18F027-CA	1*	90218
06121809.D			
	S18F027-SC	101	79376

(fails) - fails 12hr time check * - fails criteria

Created: Fri Jun 15 13:29:59 2018 AG5975C

Analysis Sequence

S18F027

Project:
Analysis:

Instrument: AG5975CV **Calibration ID:** 1806010 Printed: 06/19/2018 1:09 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S18F027-IBL1	Instrument Blank	1	6/12/18 13:13		1823097	RH	06121801.D	
S18F027-TUN1	BFB	2	6/12/18 13:34	1806045		RH	06121802.D	
S18F027-CAL1	Cal Standard	3	6/12/18 13:44	1823098		RH	06121803.D	
S18F027-CAL2	Cal Standard	4	6/12/18 14:07	1823099		RH	06121804.D	
S18F027-CAL3	Cal Standard	5	6/12/18 14:31	1823100		RH	06121805.D	
S18F027-CAL4	Cal Standard	6	6/12/18 14:55	1823101		RH	06121806.D	
S18F027-CAL5	Cal Standard	7	6/12/18 15:19	1823102		RH	06121807.D	
S18F027-CAL6	Cal Standard	8	6/12/18 15:42	1823103		RH	06121808.D	
S18F027-SCV1	Secondary Cal Check	9	6/12/18 16:06	1824014		RH	06121809.D	

Sequence Comments

Reagents

Reagent # **Description**

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SEQUENCE DATA

S18F027

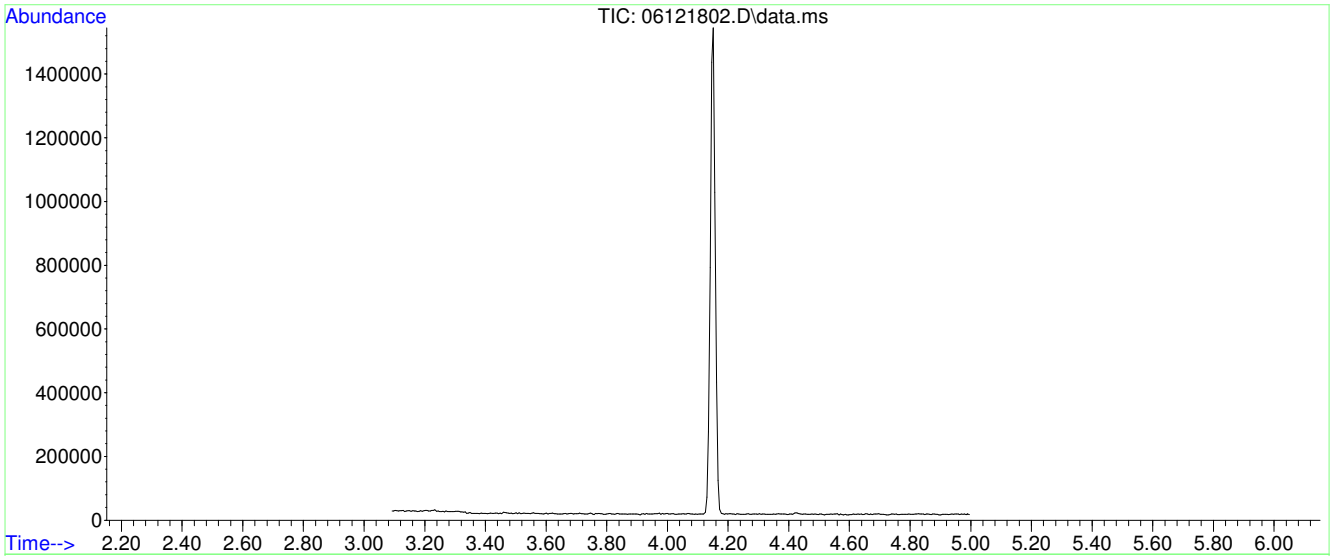
S18F027-TUN1

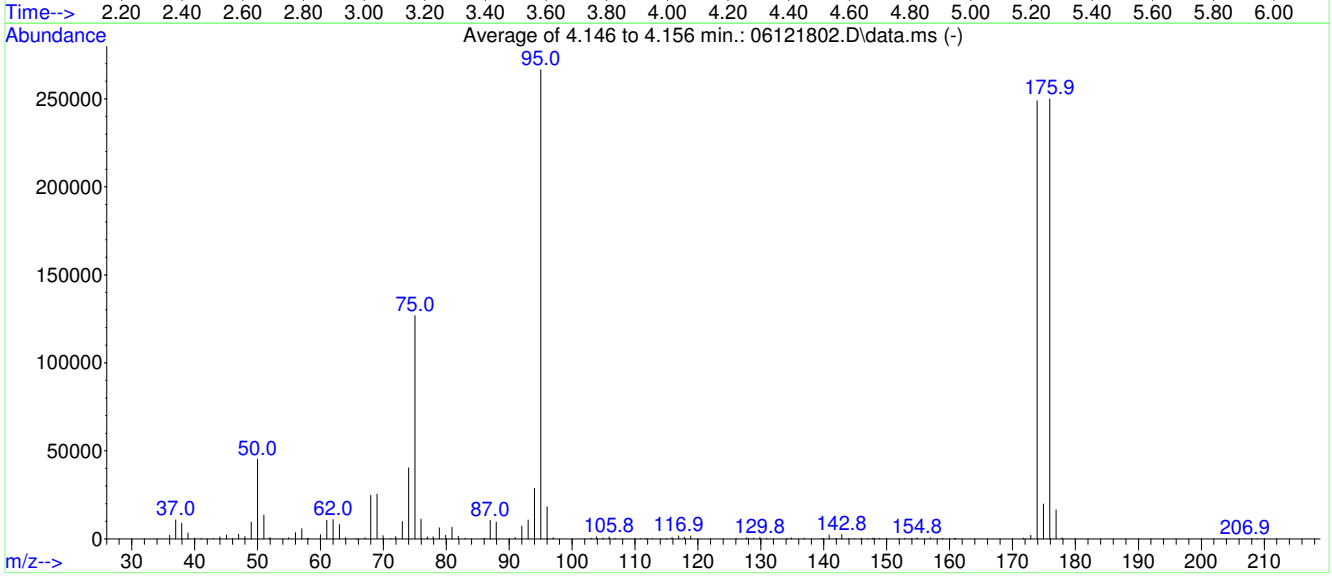
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121802.D
Acq On : 12 Jun 2018 13:34
Operator : RH
Sample : S18F027-TUN1
Misc : BFB 1806045
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Thu Jun 14 17:09:21 2018





AutoFind: Scans 202, 203, 204; Background Corrected with Scan 194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	45259	PASS
75	95	30	60	47.6	126843	PASS
95	95	100	100	100.0	266496	PASS
96	95	5	9	6.8	18148	PASS
173	174	0.00	2	0.8	1890	PASS
174	95	50	120	93.4	248875	PASS
175	174	5	9	7.9	19723	PASS
176	174	95	101	100.4	249963	PASS
177	176	5	9	6.6	16458	PASS

Average of 4.146 to 4.156 min.: 06121802.D\data.ms
S18F027-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1934	48.00	1362	61.00	10559	73.00	9813
37.00	10651	49.00	9566	62.00	10909	74.00	40261
37.95	8905	50.00	45259	63.00	8074	75.00	126843
38.95	3341	51.00	13407	63.95	678	75.95	11274
40.00	431	51.95	755	65.80	56	76.95	1093
41.05	98	54.90	543	67.05	634	77.90	1180
43.00	127	56.00	3495	68.00	24744	78.90	6329
44.00	1066	57.00	5683	69.00	25371	79.90	2052
45.05	2115	57.90	254	69.95	1827	80.90	6585
46.00	84	58.10	59	71.10	144	81.90	1516
47.00	2727	60.00	2265	71.95	1225	82.95	257

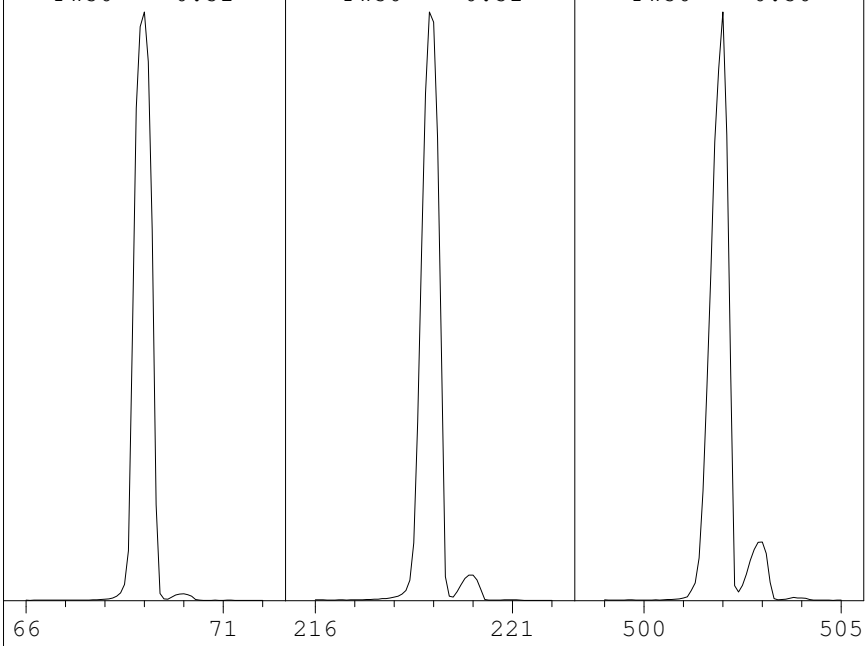
Average of 4.146 to 4.156 min.: 06121802.D\data.ms
S18F027-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.00	292	103.85	1089	117.85	1007	139.70	65
86.95	10604	104.90	384	118.85	1614	139.90	68
87.95	9430	105.85	1212	126.10	55	140.85	2233
90.95	803	106.85	196	127.75	630	141.95	303
92.00	7258	109.90	66	128.00	240	142.85	2477
93.00	10647	110.90	172	128.85	409	143.90	139
94.00	28709	111.75	223	129.85	867	144.80	157
95.00	266496	112.75	110	130.90	325	145.90	438
96.00	18148	114.95	260	134.20	52	146.95	79
96.95	604	115.85	741	134.80	595	147.80	415
103.10	203	116.90	1679	136.85	436	148.00	217

Average of 4.146 to 4.156 min.: 06121802.D\data.ms
S18F027-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.90	247	172.90	1890				
150.00	228	173.90	248875				
151.90	177	174.90	19723				
152.85	242	175.90	249963				
153.95	129	176.90	16458				
154.80	654	177.85	610				
156.90	614	206.95	181				
158.90	322	208.00	52				
160.80	197	208.85	179				
160.95	210						
171.75	377						

Mass	Ab	Pw50
69.00	1221544	0.51
218.90	775060	0.51
502.00	29127	0.50

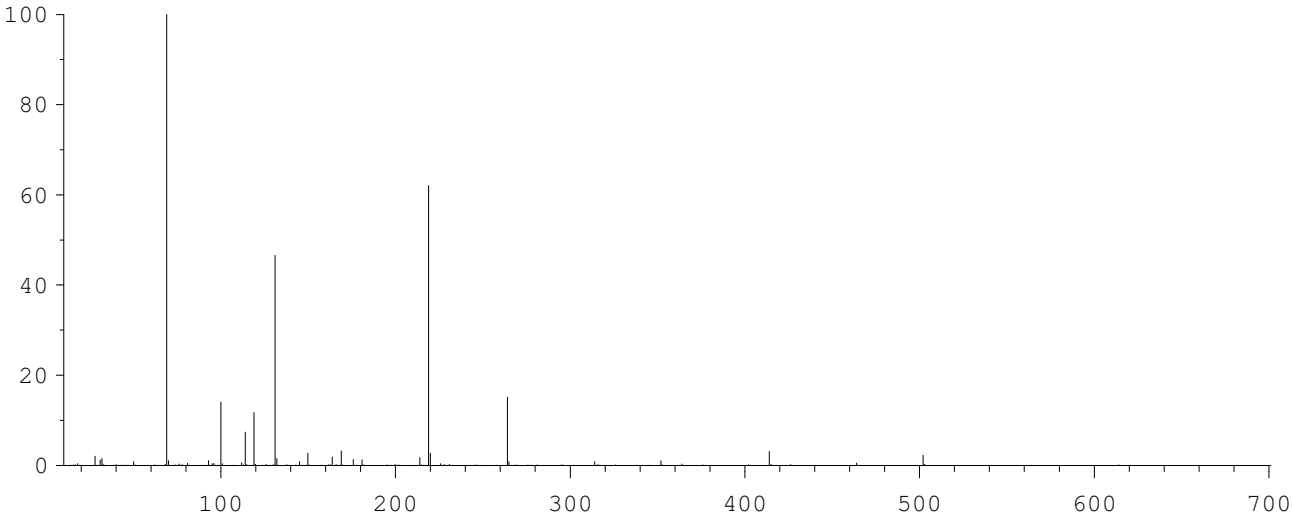


Ion Pol	Pos	MassGain	-1186
		MassOffs	-41
Emission	34.6	AmuGain	970
EIEnrgy	69.9	AmuOffs	129.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	70.2	HEDEnab	On
EntLens	0.0	EMVolts	1188
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
191 peaks Base: 69.00 Abundance: 1168896



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	1168896	100.00	70.00	12476	1.07
219.00	725696	62.08	220.00	31592	4.35
502.00	26448	2.26	503.00	2681	10.14

Air/Water Check: H20~0.36% N2~2.02% O2~1.51% CO2~0.06% N2/H2O~559.79%

Column(1) Flow: 0.97 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 53447
Repeller Maximum 30 volts using ion 219; Gain Factor 0.53

MassGain Values(Samples): -1179(3) -1174(2) -1158(1) -1119(0) -1076(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	129.9	129.9	129.9	129.9	129.9	129.9	129.9
Entrance Lens Offset:	15.3	14.8	15.3	16.8	17.6	18.6	18.6
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	0.9	100.0	46.6	62.1	3.1	2.3	

S18F027-CAL1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121803.D
Acq On : 12 Jun 2018 13:44
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL1
Misc : 1823098 25 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 17:02:20 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration

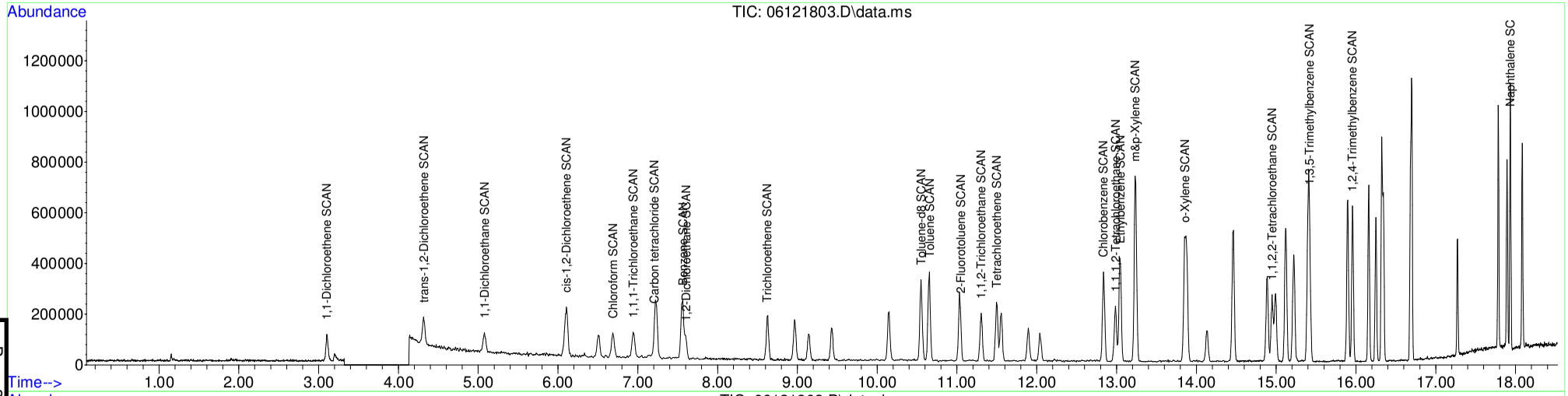
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	98303	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	389441	24389.79 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 487.80%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	104903	24942.84 ug/L	100
3] trans-1,2-Dichloroethene	4.316	61	110884	25225.65 ug/L	100
4] 1,1-Dichloroethane	5.072	63	135510	24768.32 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	130812	24236.67 ug/L	100
6] Chloroform	6.688	83	139759	24048.42 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	138195	24158.92 ug/L	100
8] Carbon tetrachloride	7.211	117	130484	24081.31 ug/L	100
9] Benzene	7.552	78	367224	23266.24 ug/L	100
10] 1,2-Dichloroethane	7.588	62	121027	23792.61 ug/L	100
11] Trichloroethene	8.624	130	104634	24120.55 ug/L	100
13] Toluene	10.645	91	469703	21939.69 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	105602	23864.87 ug/L	100
15] Tetrachloroethene	11.495	166	144527	23960.74 ug/L	100
16] Chlorobenzene	12.837	112	367103	24024.89 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.988	131	124611	24030.45 ug/L	99
18] Ethylbenzene	13.043	91	590019	22965.39 ug/L	100
19] m&p-Xylene	13.234	91	909304	45857.01 ug/L	99
20] o-Xylene	13.846	91	496296	23632.40 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.951	83	220972	24432.43 ug/L	100
22] 1,3,5-Trimethylbenzene	15.413	105	548060	23064.94 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	555158	23356.80 ug/L	100
24] Naphthalene	17.936	128	883987	22662.57 ug/L	100
25) 2-Fluorotoluene SCAN	11.042	109	57986	5062.10 ug/L	91
26) 1,1-Dichloroethene SCAN	3.103	61	73143	25588.85 ug/L	96
27) trans-1,2-Dichloroethe...	4.315	61	73011	21940.19 ug/L	97
28) 1,1-Dichloroethane SCAN	5.078	63	98870	23354.55 ug/L	87
29) cis-1,2-Dichloroethene...	6.106	61	89756	24514.88 ug/L	94
30) Chloroform SCAN	6.687	83	90910	20229.18 ug/L	92
31) 1,1,1-Trichloroethane ...	6.942	97	82528	20629.44 ug/L	89
32) Carbon tetrachloride SCAN	7.210	117	74490	18897.51 ug/L	92
33) Benzene SCAN	7.563	78	227178	19042.98 ug/L	93
34) 1,2-Dichloroethane SCAN	7.599	62	83036	20409.67 ug/L	96
35) Trichloroethene SCAN	8.623	130	59889	20514.87 ug/L	90
36) Toluene-d8 SCAN	10.549	98	228430	22059.44 ug/L	99
37) Toluene SCAN	10.654	91	288703	21825.60 ug/L	99
38) 1,1,2-Trichloroethane ...	11.305	97	68446	27003.32 ug/L	91
39) Tetrachloroethene SCAN	11.493	166	77661	26755.13 ug/L	91
40) Chlorobenzene SCAN	12.836	112	210381	26218.24 ug/L	94
41) 1,1,1,2-Tetrachloroeth...	12.986	131	72321	25249.97 ug/L	90
42) Ethylbenzene SCAN	13.042	91	364226	23688.45 ug/L	93
43) m&p-Xylene SCAN	13.233	91	532803	24964.58 ug/L	98
44) o-Xylene SCAN	13.852	91	304889	25099.30 ug/L	94
45) 1,1,2,2-Tetrachloroeth...	14.950	83	144487	25096.38 ug/L	94
46) 1,3,5-Trimethylbenzene...	15.416	105	315229	26172.72 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.958	105	318769	25825.13 ug/L	98
48) Naphthalene SCAN	17.935	128	482808	27414.31 ug/L	98

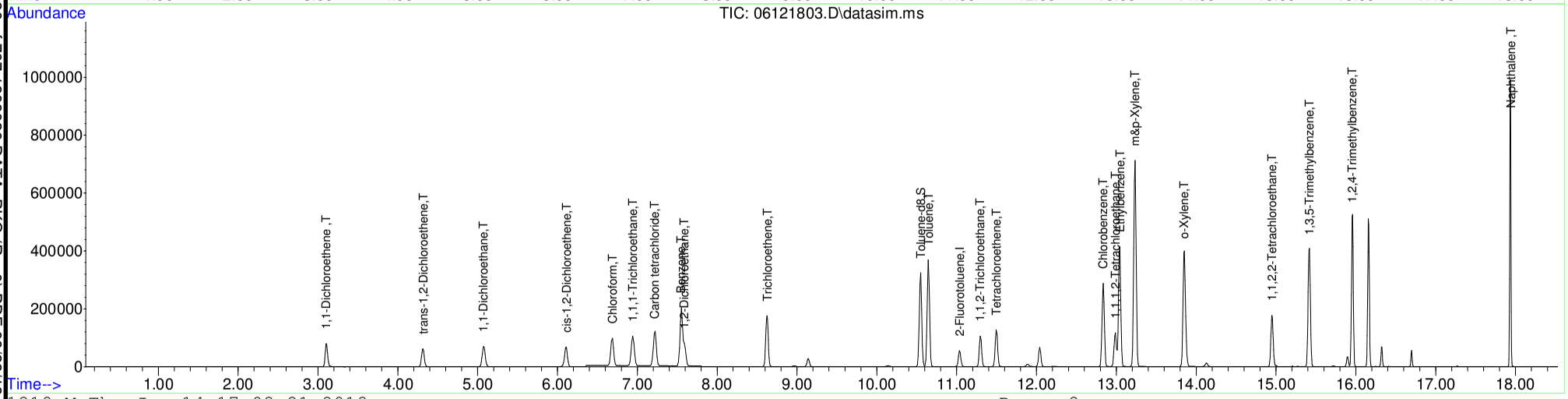
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121803.D
Acq On : 12 Jun 2018 13:44
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL1
Misc : 1823098 25 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 17:02:20 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration





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S18F027-CAL2

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121804.D
Acq On : 12 Jun 2018 14:07
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL2
Misc : 1823099 10 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 17:02:34 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration

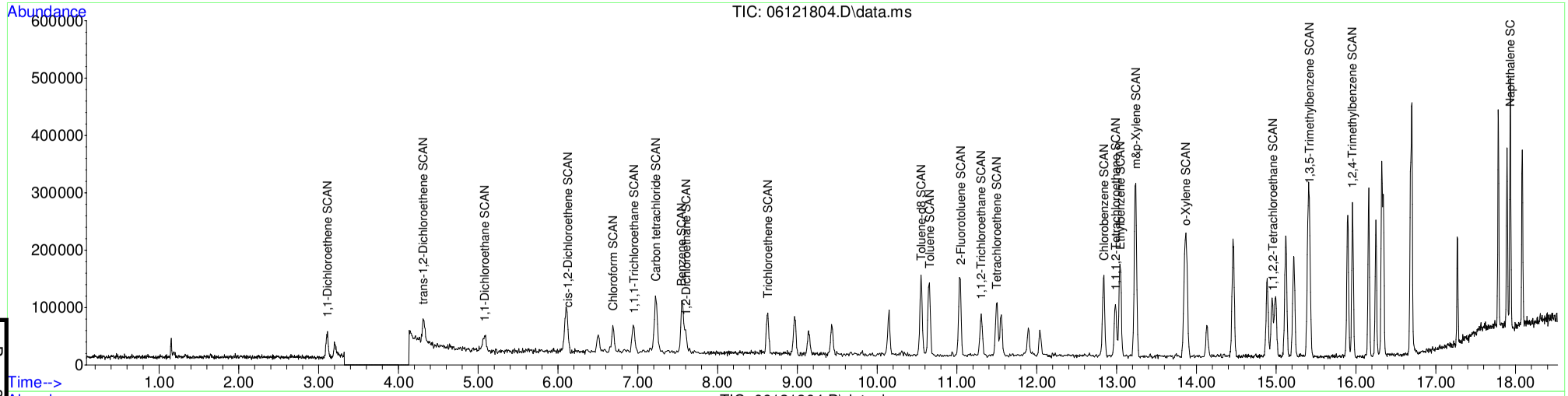
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	97466	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	155045	9793.50 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 195.87%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	41597	9975.48 ug/L	100
3] trans-1,2-Dichloroethene	4.316	61	43784	10046.22 ug/L	100
4] 1,1-Dichloroethane	5.073	63	53982	9951.48 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	52074	9731.05 ug/L	100
6] Chloroform	6.688	83	55518	9635.06 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	55136	9721.52 ug/L	100
8] Carbon tetrachloride	7.211	117	51863	9653.71 ug/L	100
9] Benzene	7.552	78	147574	9430.15 ug/L	100
10] 1,2-Dichloroethane	7.588	62	49173	9749.90 ug/L	100
11] Trichloroethene	8.624	130	41671	9688.62 ug/L	100
13] Toluene	10.645	91	190743	8986.06 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	41502	9459.53 ug/L	100
15] Tetrachloroethene	11.495	166	57486	9612.29 ug/L	100
16] Chlorobenzene	12.837	112	145755	9620.79 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.988	131	49286	9586.12 ug/L	100
18] Ethylbenzene	13.043	91	238277	9354.13 ug/L	100
19] m&p-Xylene	13.234	91	369040	18770.84 ug/L	100
20] o-Xylene	13.854	91	197596	9489.84 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.951	83	86561	9653.07 ug/L	100
22] 1,3,5-Trimethylbenzene	15.418	105	221338	9394.94 ug/L	100
23] 1,2,4-Trimethylbenzene	15.959	105	224846	9541.04 ug/L	100
24] Naphthalene	17.936	128	364789	9432.32 ug/L	100
25) 2-Fluorotoluene SCAN	11.042	109	52336	4608.10 ug/L	100
26) 1,1-Dichloroethene SCAN	3.111	61	28342	10000.51 ug/L	100
27) trans-1,2-Dichloroethe...	4.308	61	31005	9397.18 ug/L	100
28) 1,1-Dichloroethane SCAN	5.078	63	32206	7672.86 ug/L	100
29) cis-1,2-Dichloroethene...	6.120	61	38006	10469.65 ug/L	100
30) Chloroform SCAN	6.687	83	38339	8604.41 ug/L	100
31) 1,1,1-Trichloroethane ...	6.955	97	38919	9812.09 ug/L	100
32) Carbon tetrachloride SCAN	7.222	117	27559	7051.54 ug/L	100
33) Benzene SCAN	7.551	78	92630	7831.30 ug/L	100
34) 1,2-Dichloroethane SCAN	7.599	62	34361	8518.22 ug/L	100
35) Trichloroethene SCAN	8.628	130	26472	9145.81 ug/L	100
36) Toluene-d8 SCAN	10.549	98	94632	9217.07 ug/L	100
37) Toluene SCAN	10.654	91	115123	8777.90 ug/L	100
38) 1,1,2-Trichloroethane ...	11.305	97	26837	10678.66 ug/L	100
39) Tetrachloroethene SCAN	11.494	166	34571	12012.39 ug/L	100
40) Chlorobenzene SCAN	12.844	112	91405	11488.96 ug/L	100
41) 1,1,1,2-Tetrachloroeth...	12.987	131	32925	11594.07 ug/L	100
42) Ethylbenzene SCAN	13.042	91	146936	9638.46 ug/L	100
43) m&p-Xylene SCAN	13.241	91	225627	10662.58 ug/L	100
44) o-Xylene SCAN	13.860	91	117021	9716.22 ug/L	100
45) 1,1,2,2-Tetrachloroeth...	14.957	83	60490	10596.92 ug/L	100
46) 1,3,5-Trimethylbenzene...	15.417	105	127753	10698.12 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.958	105	130387	10654.04 ug/L	100
48) Naphthalene SCAN	17.935	128	197749	11324.80 ug/L	100

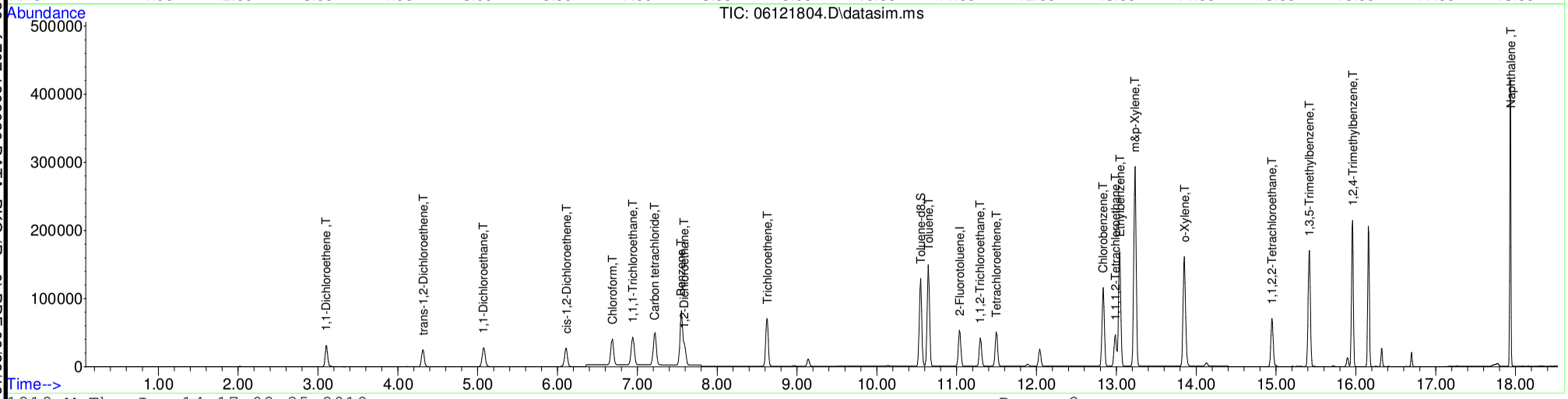
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121804.D
Acq On : 12 Jun 2018 14:07
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL2
Misc : 1823099 10 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 17:02:34 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration





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S18F027-CAL3

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121805.D
Acq On : 12 Jun 2018 14:31
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL3
Misc : 1823100 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 17:02:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration

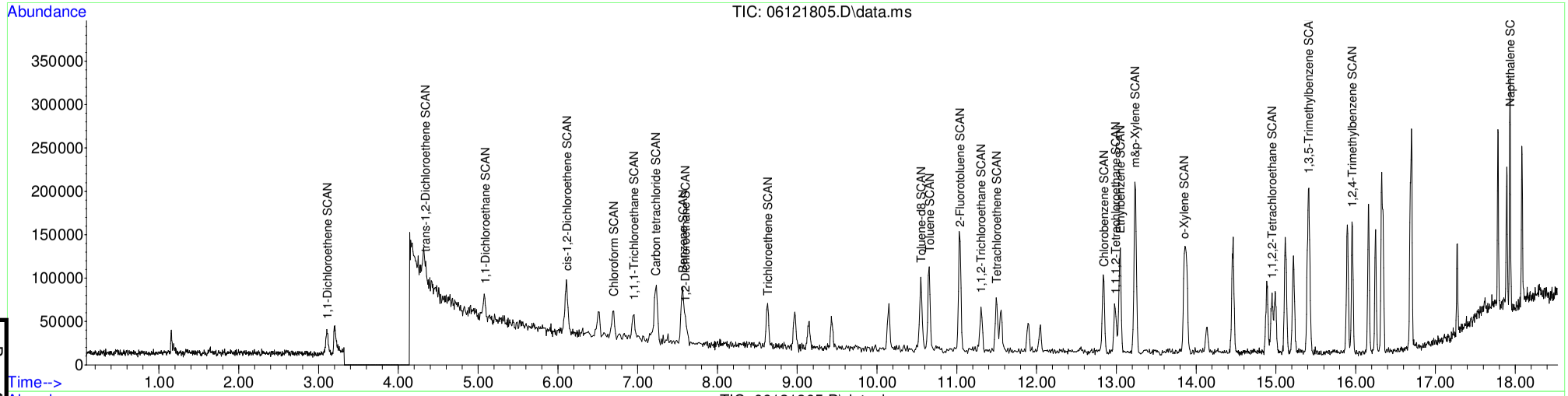
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	125252	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	100060	4918.23 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 98.36%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	28786	5371.82 ug/L	99
3] trans-1,2-Dichloroethene	4.323	61	30328	5415.01 ug/L	100
4] 1,1-Dichloroethane	5.079	63	37306	5351.63 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	35899	5220.23 ug/L	100
6] Chloroform	6.688	83	37972	5128.05 ug/L	99
7] 1,1,1-Trichloroethane	6.944	97	37566	5154.21 ug/L	99
8] Carbon tetrachloride	7.223	117	34885	5052.93 ug/L	99
9] Benzene	7.552	78	100093	4977.15 ug/L	99
10] 1,2-Dichloroethane	7.588	62	33538	5174.63 ug/L	99
11] Trichloroethene	8.629	130	27883	5044.71 ug/L	100
13] Toluene	10.645	91	124649	4569.60 ug/L	99
14] 1,1,2-Trichloroethane	11.295	97	26724	4739.91 ug/L	99
15] Tetrachloroethene	11.495	166	36572	4758.63 ug/L	100
16] Chlorobenzene	12.837	112	91730	4711.58 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.988	131	31077	4703.56 ug/L	100
18] Ethylbenzene	13.043	91	150614	4601.03 ug/L	100
19] m&p-Xylene	13.234	91	232657	9208.63 ug/L	100
20] o-Xylene	13.854	91	121997	4559.30 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.951	83	53187	4615.48 ug/L	100
22] 1,3,5-Trimethylbenzene	15.414	105	133833	4420.48 ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	134728	4448.74 ug/L	100
24] Naphthalene	17.936	128	206607	4157.10 ug/L	100
25) 2-Fluorotoluene SCAN	11.042	109	72976	5000.00 ug/L	98
26) 1,1-Dichloroethene SCAN	3.111	61	18210	5000.00 ug/L	88
27) trans-1,2-Dichloroethe...	4.335	61	21200	5000.00 ug/L	94
28) 1,1-Dichloroethane SCAN	5.084	63	26970	5000.00 ug/L	95
29) cis-1,2-Dichloroethene...	6.113	61	23325	5000.00 ug/L	91
30) Chloroform SCAN	6.699	83	28630	5000.00 ug/L	97
31) 1,1,1-Trichloroethane ...	6.954	97	25486	5000.00 ug/L #	26
32) Carbon tetrachloride SCAN	7.222	117	25112	5000.00 ug/L	82
33) Benzene SCAN	7.563	78	76001	5000.00 ug/L	88
34) 1,2-Dichloroethane SCAN	7.599	62	25919	5000.00 ug/L	90
35) Trichloroethene SCAN	8.633	130	18598	5000.00 ug/L	96
36) Toluene-d8 SCAN	10.549	98	65970	5000.00 ug/L	92
37) Toluene SCAN	10.654	91	84270	5000.00 ug/L	99
38) 1,1,2-Trichloroethane ...	11.305	97	16148	5000.00 ug/L	97
39) Tetrachloroethene SCAN	11.493	166	18492	5000.00 ug/L	83
40) Chlorobenzene SCAN	12.843	112	51120	5000.00 ug/L	88
41) 1,1,1,2-Tetrachloroeth...	12.986	131	18247	5000.00 ug/L	82
42) Ethylbenzene SCAN	13.050	91	97954	5000.00 ug/L	99
43) m&p-Xylene SCAN	13.233	91	135966	5000.00 ug/L	94
44) o-Xylene SCAN	13.852	91	77387	5000.00 ug/L	91
45) 1,1,2,2-Tetrachloroeth...	14.953	83	36678	5000.00 ug/L	97
46) 1,3,5-Trimethylbenzene...	15.413	105	76730	5000.00 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.954	105	78636	5000.00 ug/L	98
48) Naphthalene SCAN	17.935	128	112198	5000.00 ug/L	97

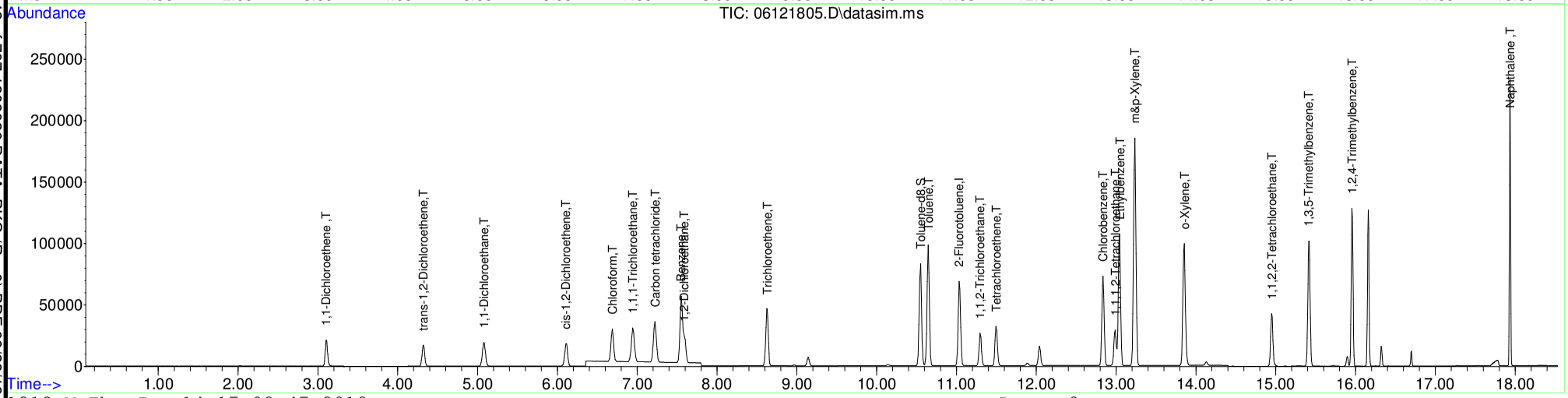
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121805.D
Acq On : 12 Jun 2018 14:31
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL3
Misc : 1823100 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 17:02:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration





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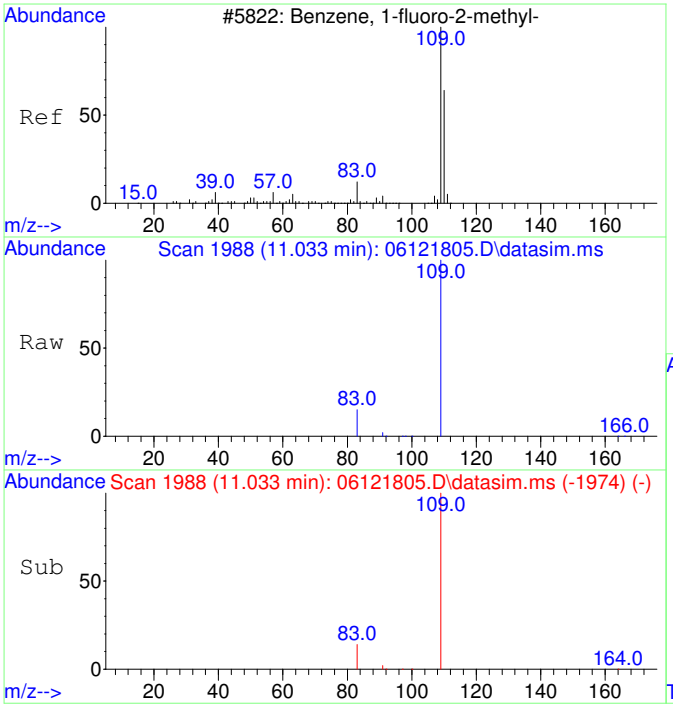
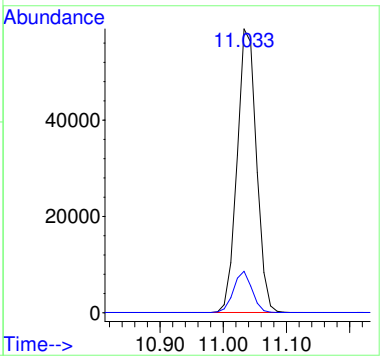
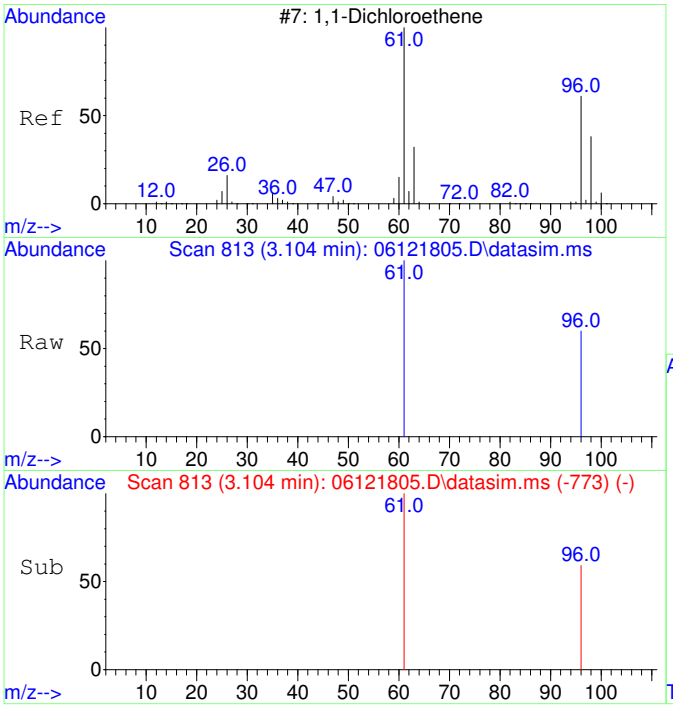


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:109 Resp: 125252

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	44.7

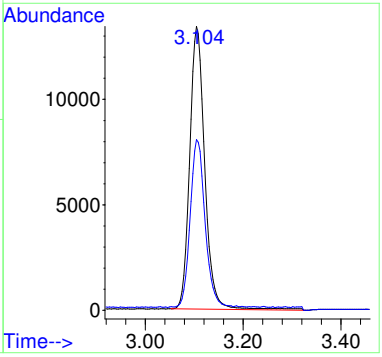


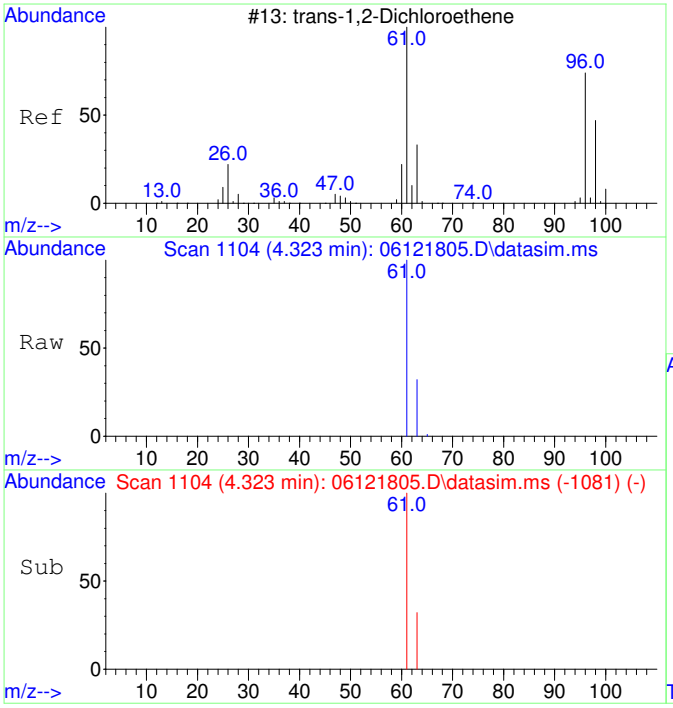


#2
1,1-Dichloroethene
Concen: 5371.82 ug/L
RT: 3.104 min Scan# 813
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 61 Resp: 28786

Ion	Ratio	Lower	Upper
61	100		
96	57.9	28.7	88.7

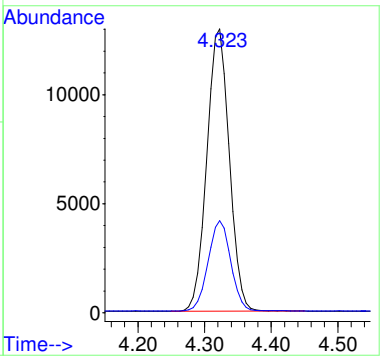


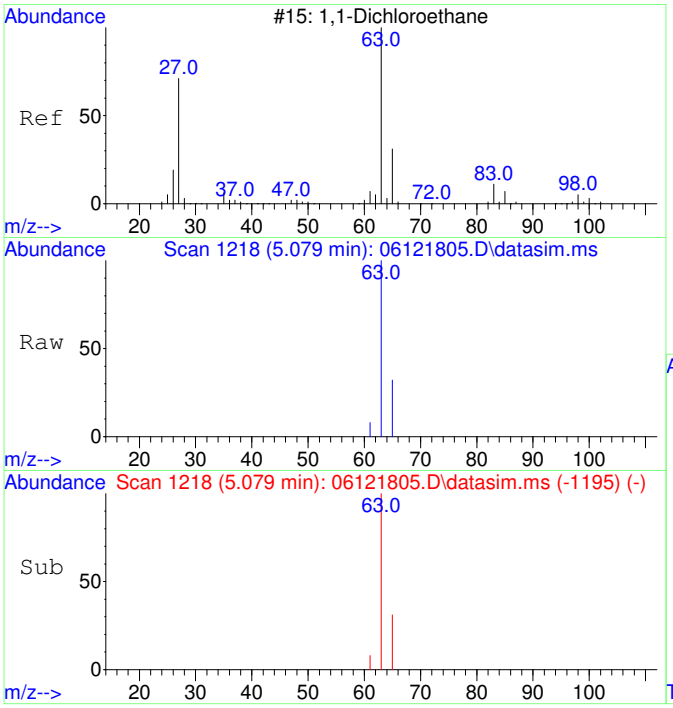


#3
trans-1,2-Dichloroethene
Concen: 5415.01 ug/L
RT: 4.323 min Scan# 1104
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 61 Resp: 30328

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.0	62.0

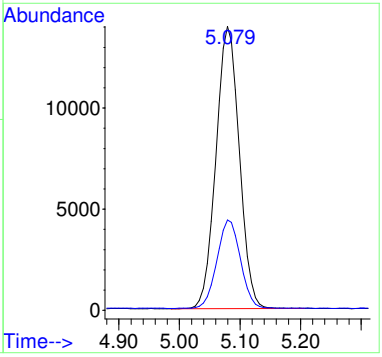


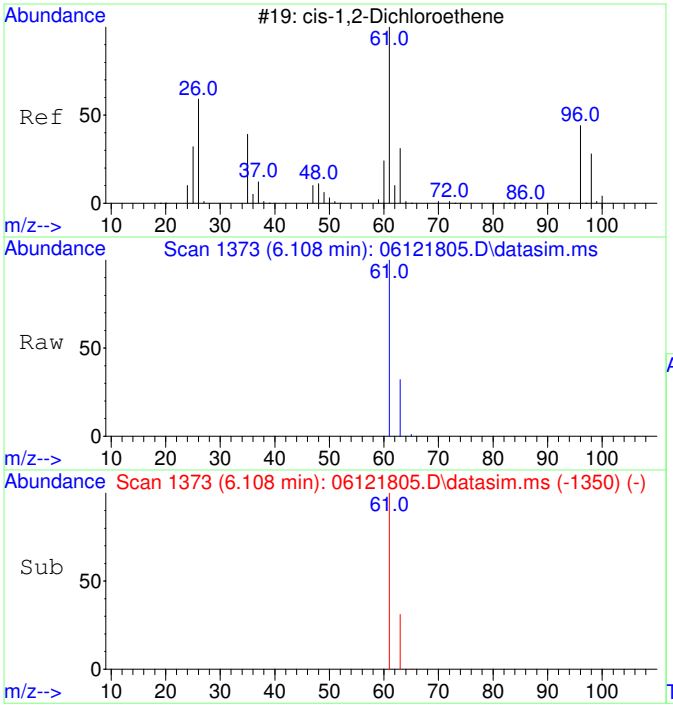


#4
1,1-Dichloroethane
Concen: 5351.63 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 63 Resp: 37306

Ion	Ratio	Lower	Upper
63	100		
65	31.5	1.5	61.5

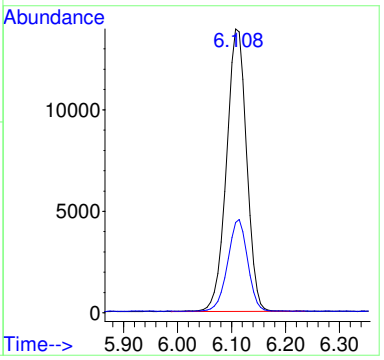


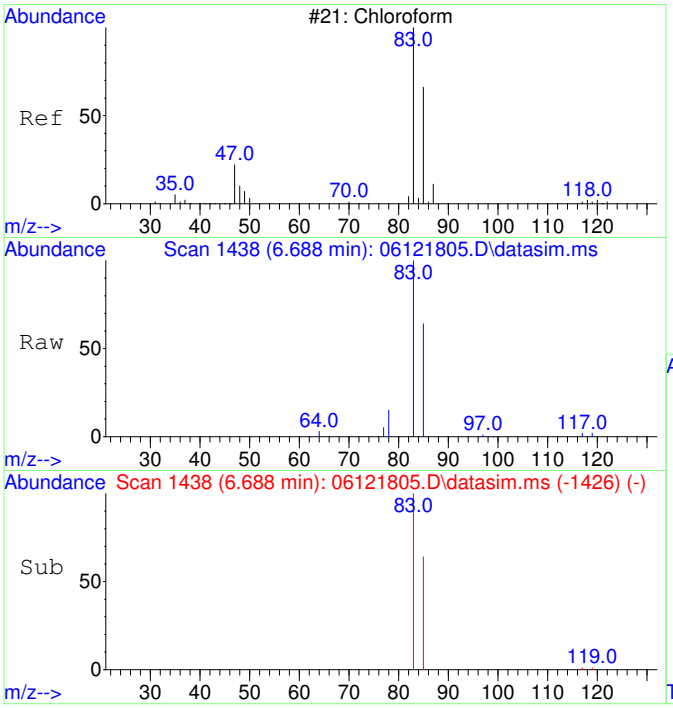


#5
cis-1,2-Dichloroethene
Concen: 5220.23 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 61 Resp: 35899

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.2	62.2

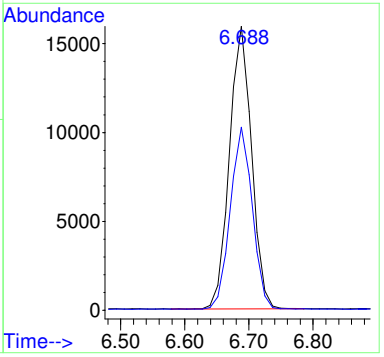


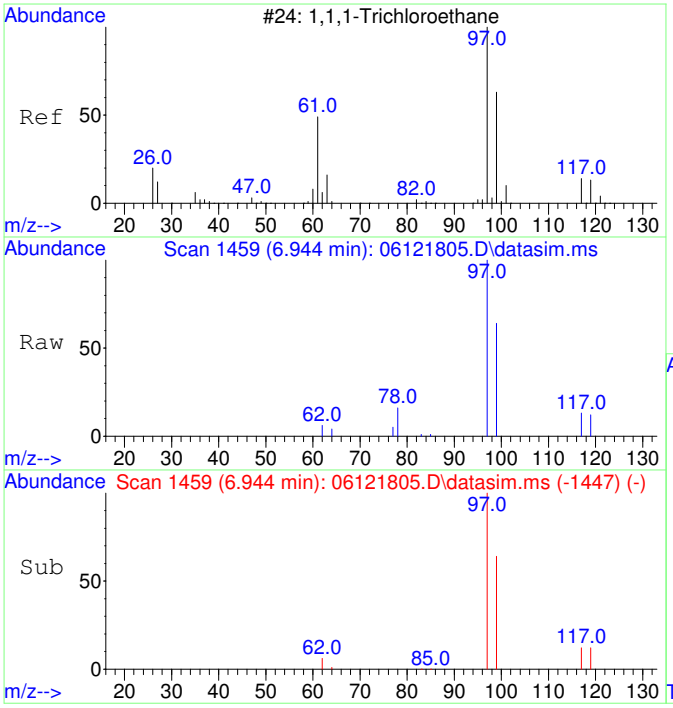


#6
Chloroform
Concen: 5128.05 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 83 Resp: 37972

Ion	Ratio	Lower	Upper
83	100		
85	63.9	34.8	94.8

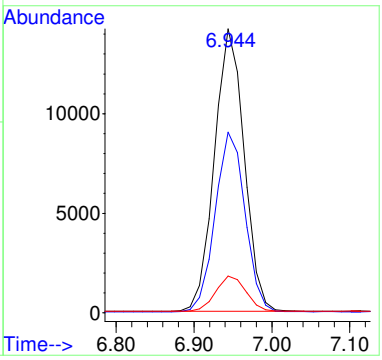


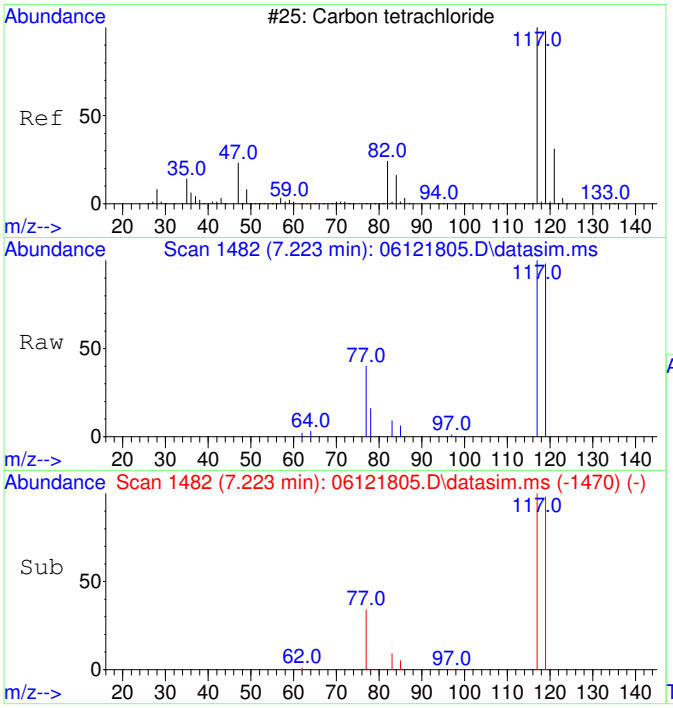


#7
1,1,1-Trichloroethane
Concen: 5154.21 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 97 Resp: 37566

Ion	Ratio	Lower	Upper
97	100		
99	63.8	34.6	94.6
117	12.6	0.0	42.9

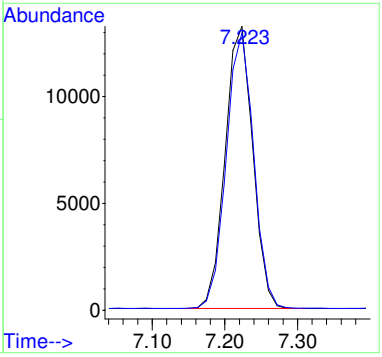


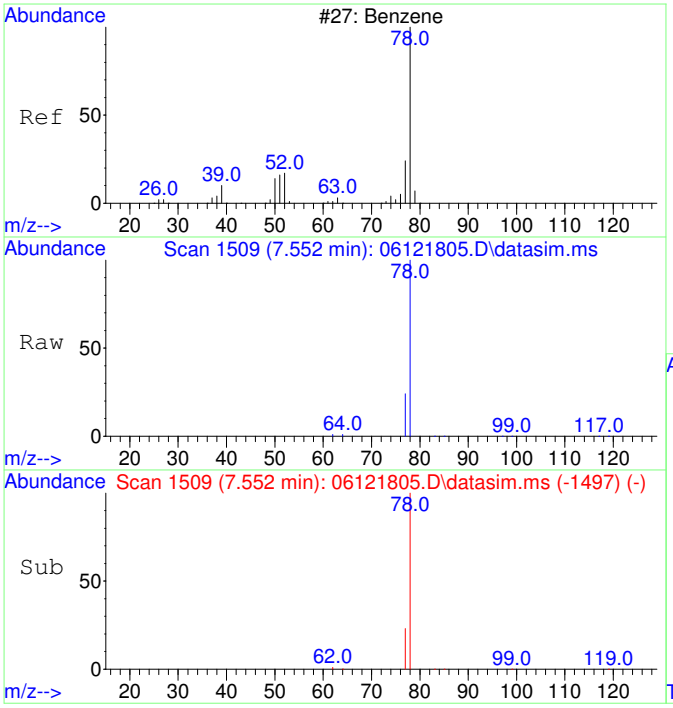


#8
Carbon tetrachloride
Concen: 5052.93 ug/L
RT: 7.223 min Scan# 1482
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:117 Resp: 34885

Ion	Ratio	Lower	Upper
117	100		
119	96.6	65.9	125.9

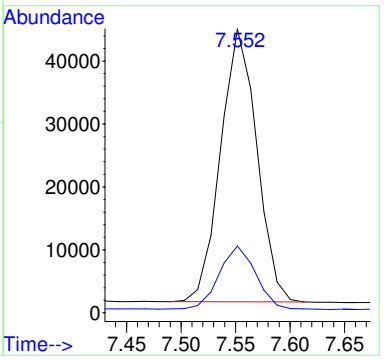


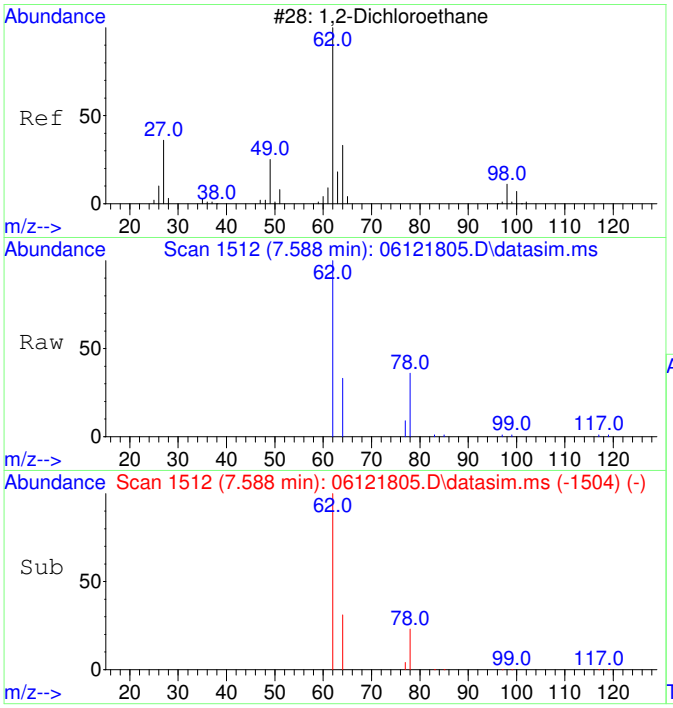


#9
Benzene
Concen: 4977.15 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 78 Resp: 100093

Ion	Ratio	Lower	Upper
78	100		
77	23.4	0.0	53.0

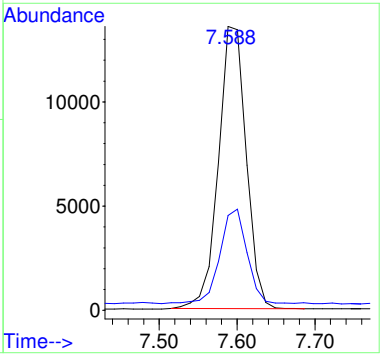


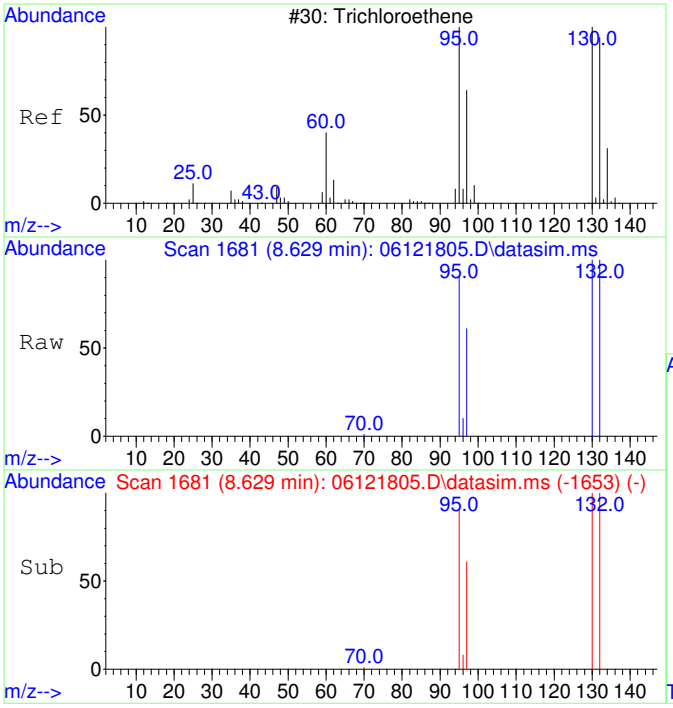


#10
1,2-Dichloroethane
Concen: 5174.63 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 62 Resp: 33538

Ion	Ratio	Lower	Upper
62	100		
64	31.9	2.3	62.3

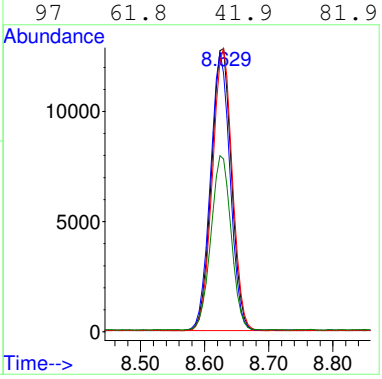


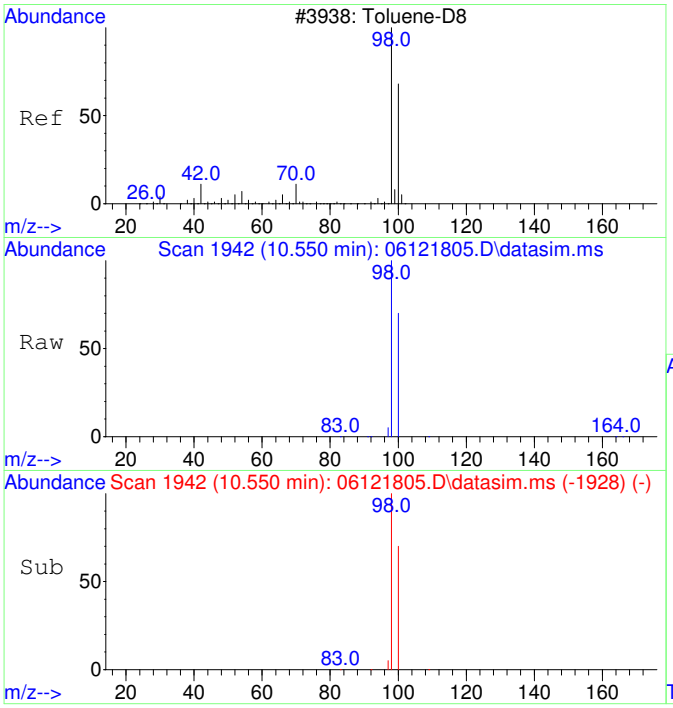


#11
Trichloroethene
Concen: 5044.71 ug/L
RT: 8.629 min Scan# 1681
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:130 Resp: 27883

Ion	Ratio	Lower	Upper
130	100		
95	96.4	66.0	126.0
132	98.9	78.8	118.8
97	61.8	41.9	81.9

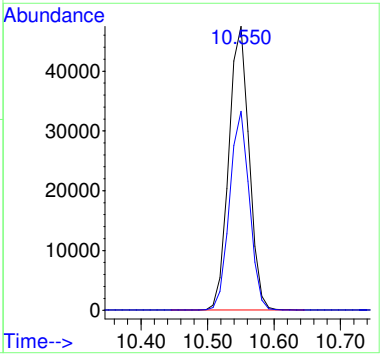


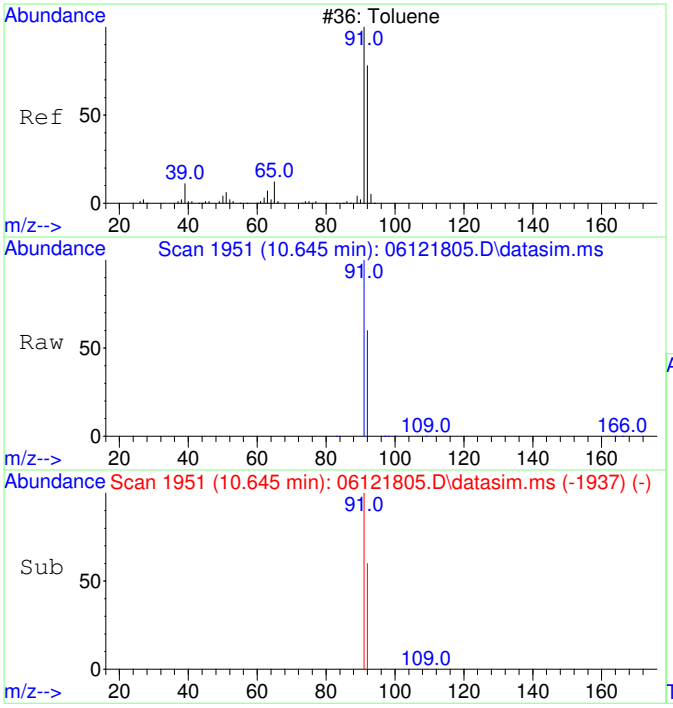


#12
Toluene-d8
Concen: 4918.23 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 98 Resp: 100060

Ion	Ratio	Lower	Upper
98	100		
100	68.3	38.7	98.7

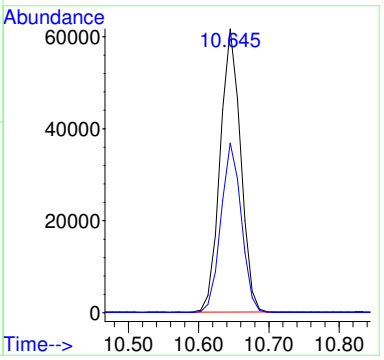


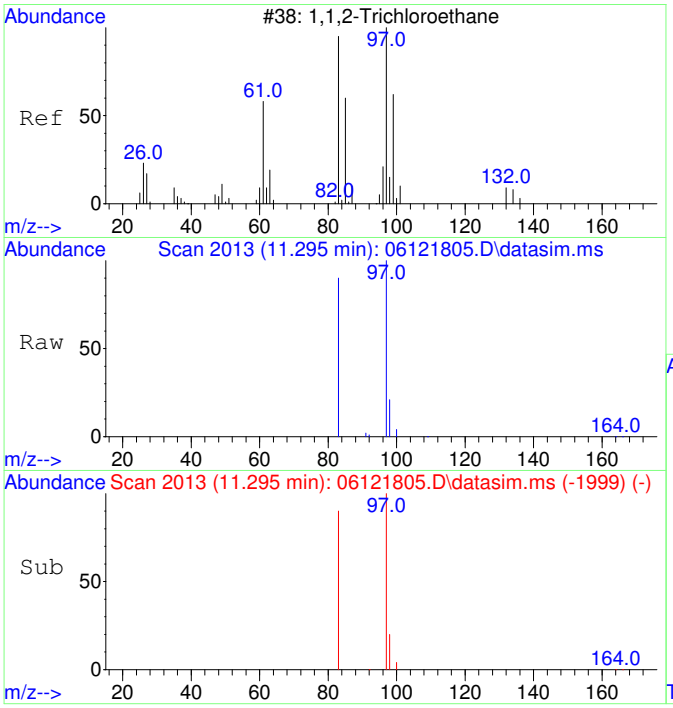


#13
Toluene
Concen: 4569.60 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 124649

Ion	Ratio	Lower	Upper
91	100		
92	59.6	30.0	90.0

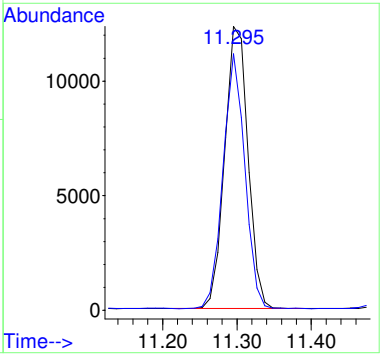


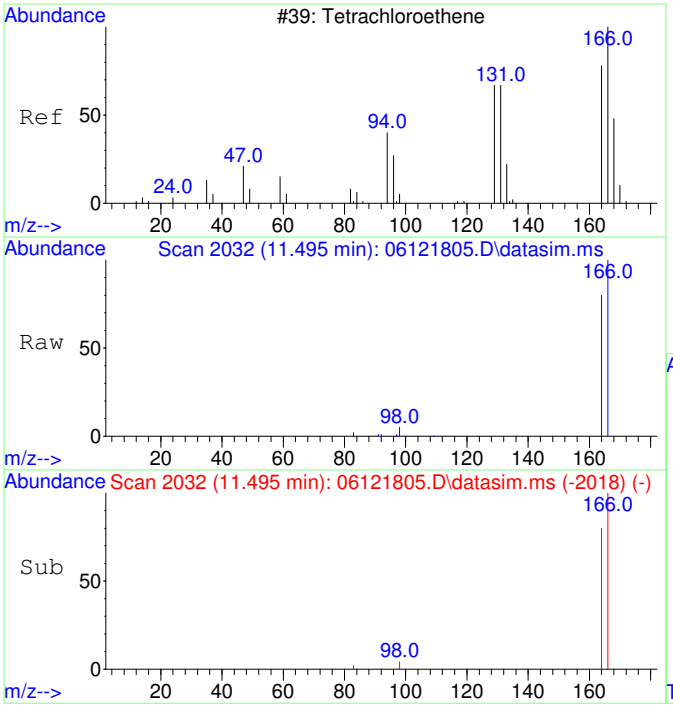


#14
1,1,2-Trichloroethane
Concen: 4739.91 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 97 Resp: 26724

Ion	Ratio	Lower	Upper
97	100		
83	84.5	53.4	113.4

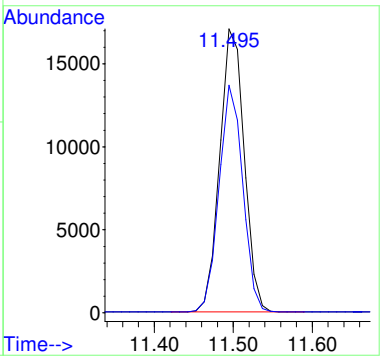


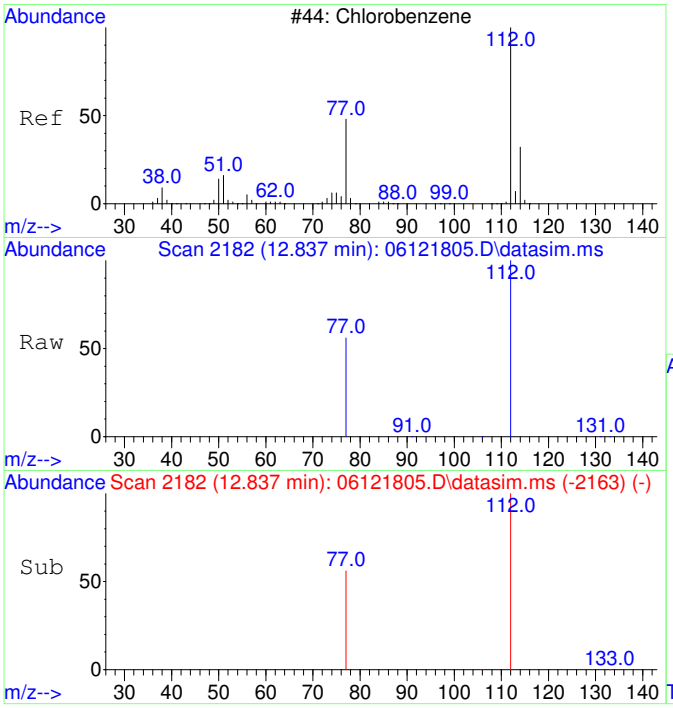


#15
Tetrachloroethene
Concen: 4758.63 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:166 Resp: 36572

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

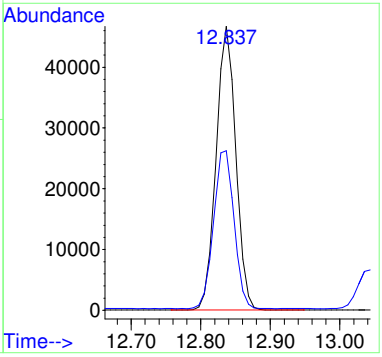


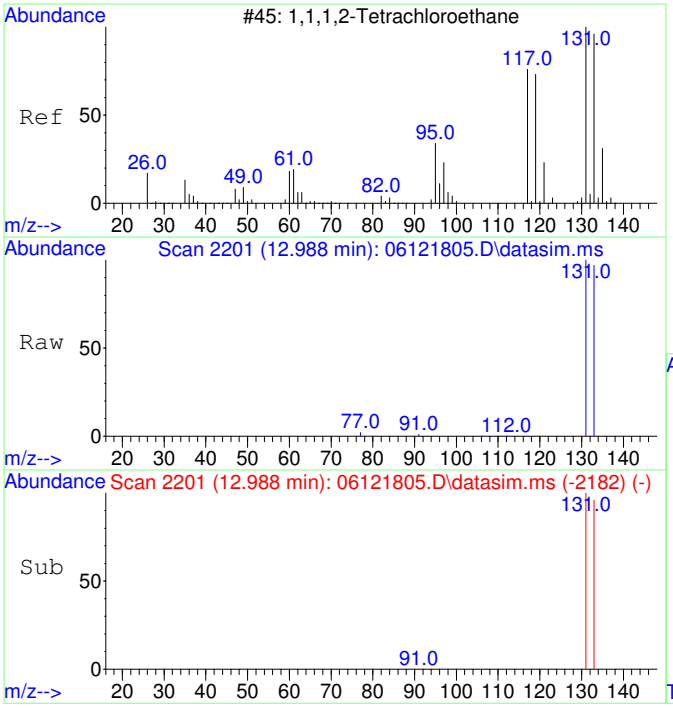


#16
Chlorobenzene
Concen: 4711.58 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:112 Resp: 91730

Ion	Ratio	Lower	Upper
112	100		
77	57.9	28.1	88.1

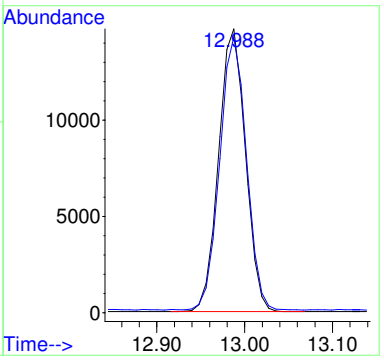


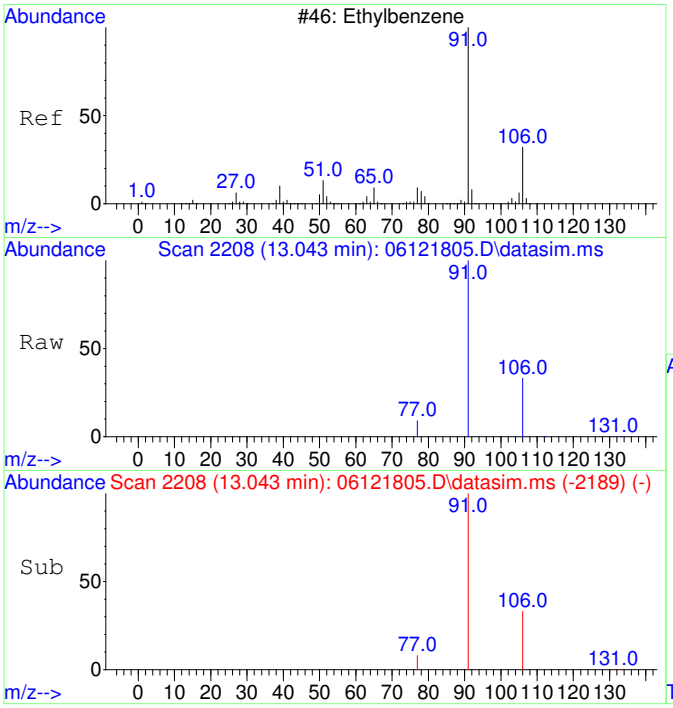


#17
1,1,1,2-Tetrachloroethane
Concen: 4703.56 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:131 Resp: 31077

Ion	Ratio	Lower	Upper
131	100		
133	96.2	66.2	126.2

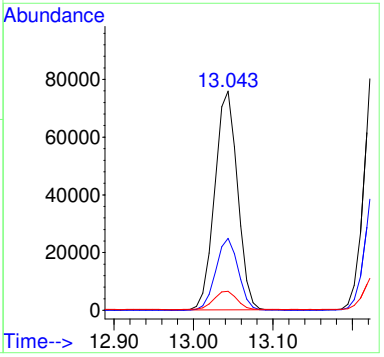


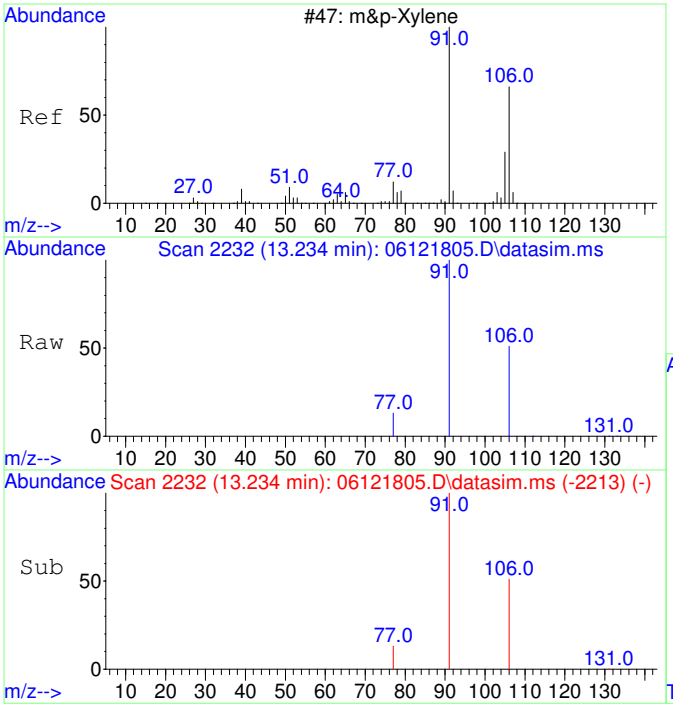


#18
Ethylbenzene
Concen: 4601.03 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 150614

Ion	Ratio	Lower	Upper
91	100		
106	32.5	2.8	62.8
77	8.5	0.0	38.6

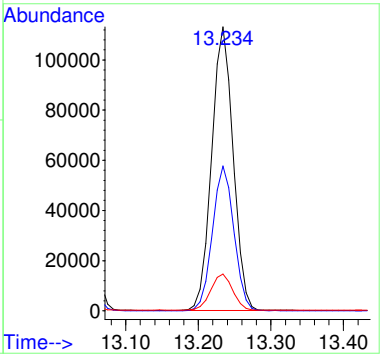


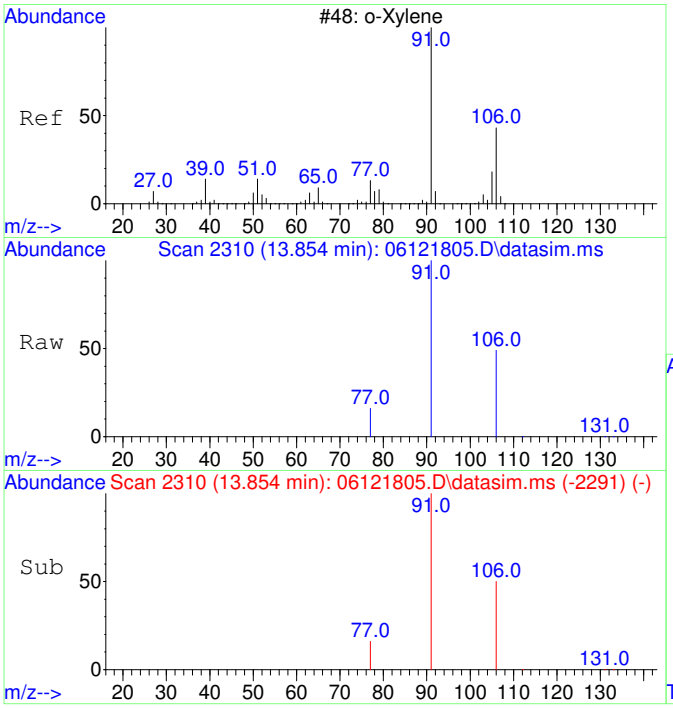


#19
m&p-Xylene
Concen: 9208.63 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 232657

Ion	Ratio	Lower	Upper
91	100		
106	50.9	21.2	81.2
77	13.0	0.0	42.9

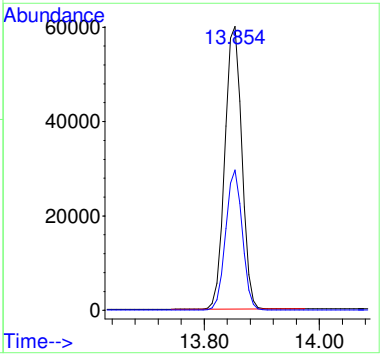


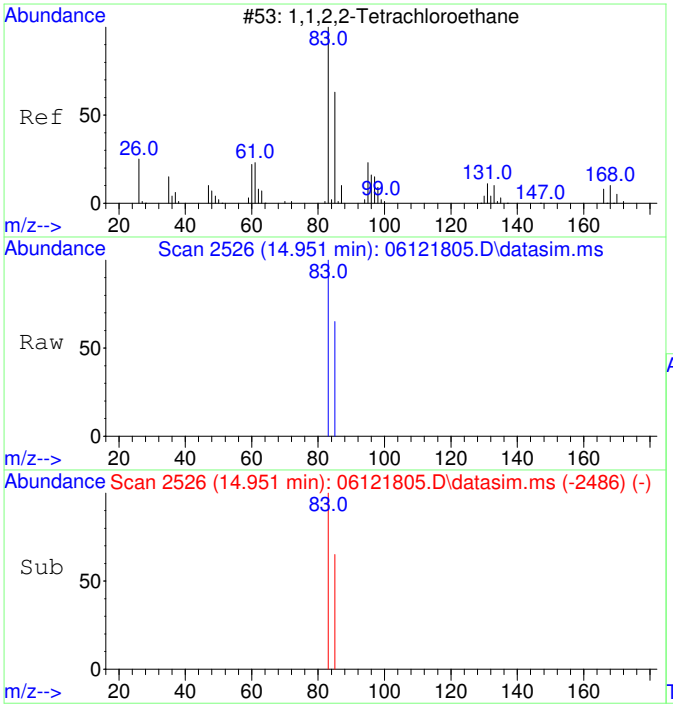


#20
o-Xylene
Concen: 4559.30 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 121997

Ion	Ratio	Lower	Upper
91	100		
106	48.6	18.3	78.3

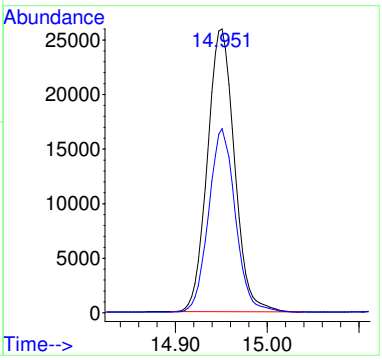


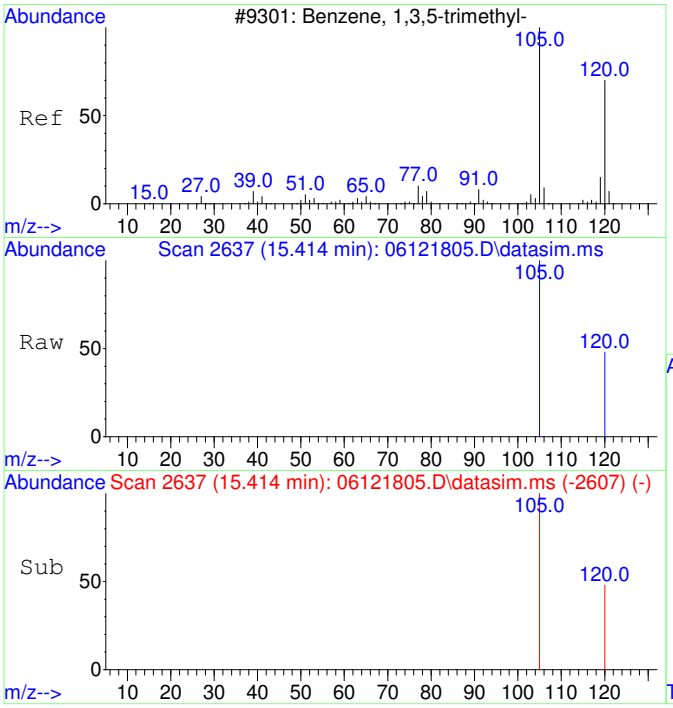


#21
1,1,2,2-Tetrachloroethane
Concen: 4615.48 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 83 Resp: 53187

Ion	Ratio	Lower	Upper
83	100		
85	64.1	34.4	94.4

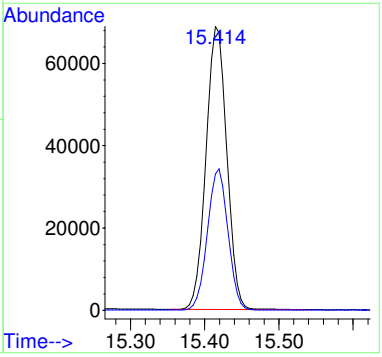


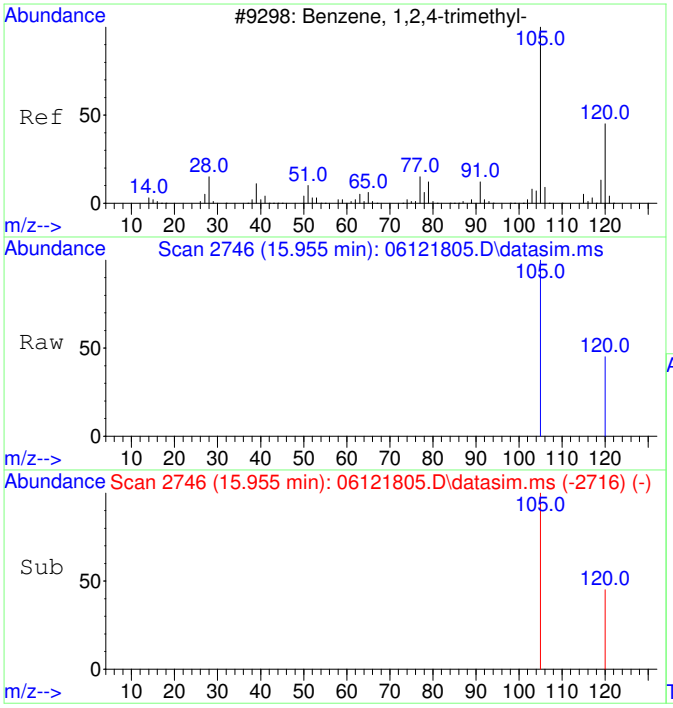


#22
1,3,5-Trimethylbenzene
Concen: 4420.48 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:105 Resp: 133833

Ion	Ratio	Lower	Upper
105	100		
120	49.2	19.1	79.1

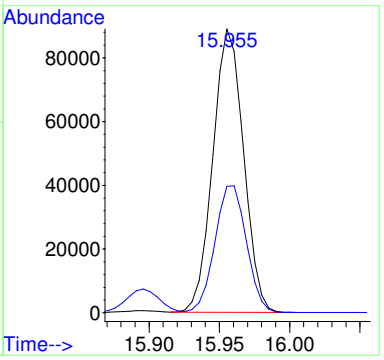


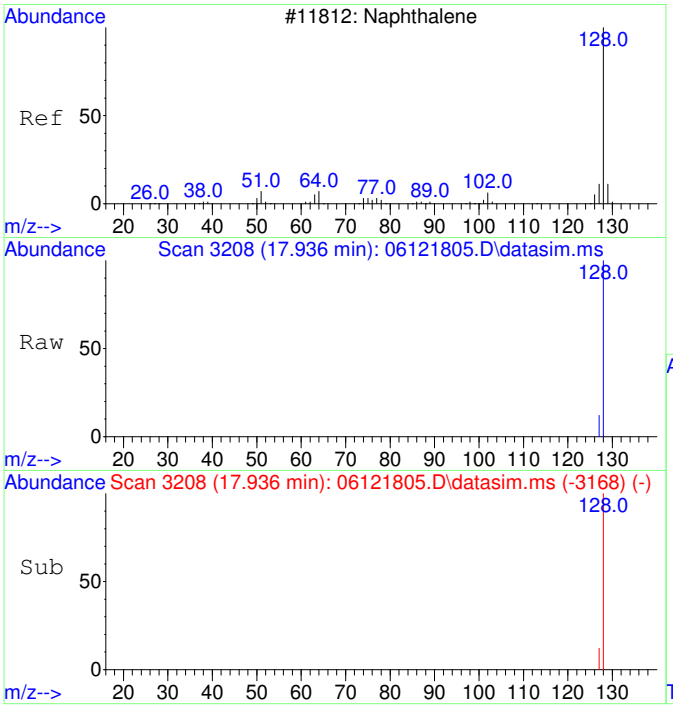


#23
1,2,4-Trimethylbenzene
Concen: 4448.74 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:105 Resp: 134728

Ion	Ratio	Lower	Upper
105	100		
120	45.4	15.5	75.5

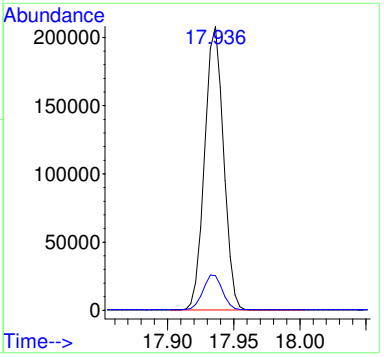


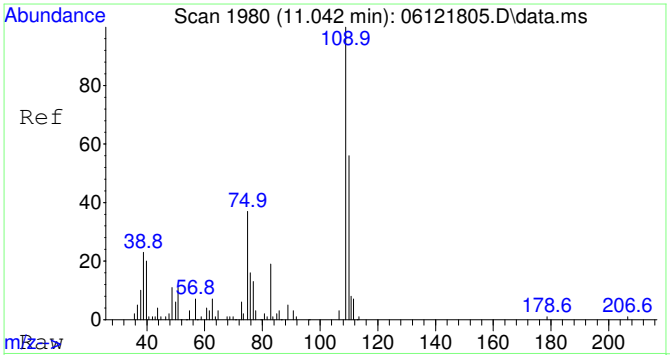


#24
Naphthalene
Concen: 4157.10 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:128 Resp: 206607

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.5

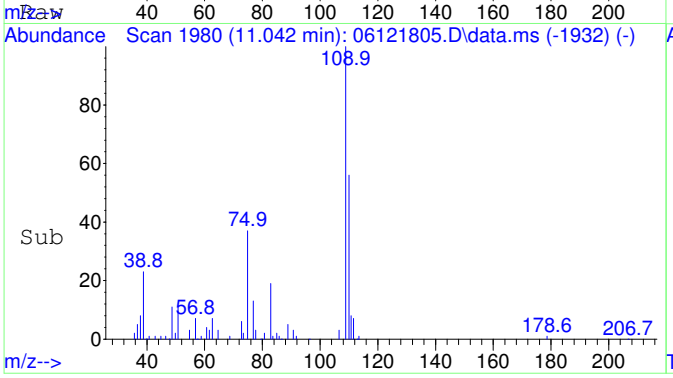


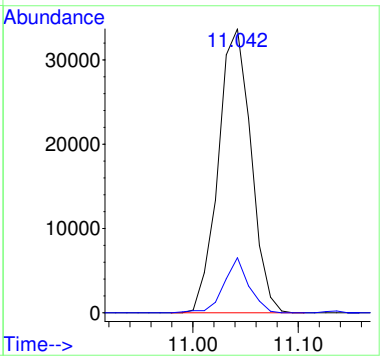


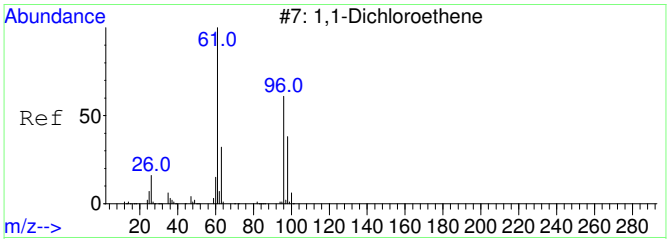
#25
2-Fluorotoluene SCAN
Concen: 5000.00 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:109 Resp: 72976

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	45.7



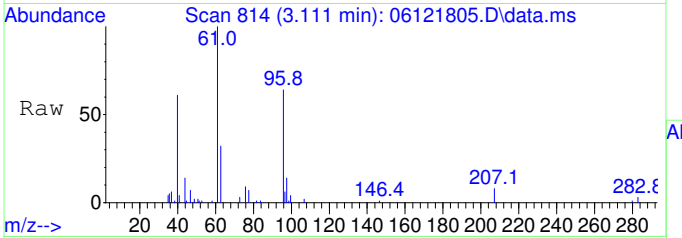


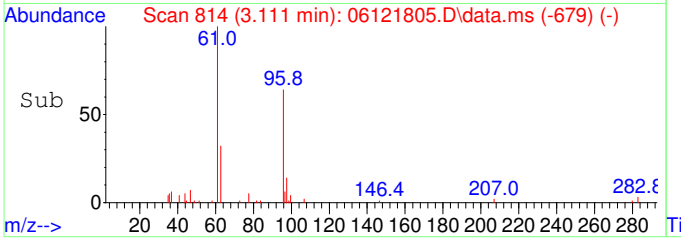


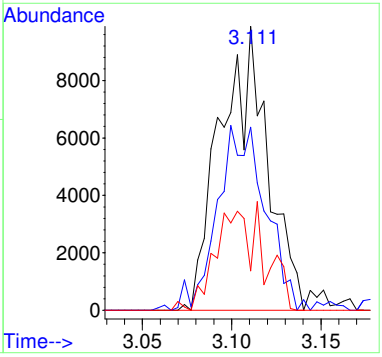
#26
1,1-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 3.111 min Scan# 814
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

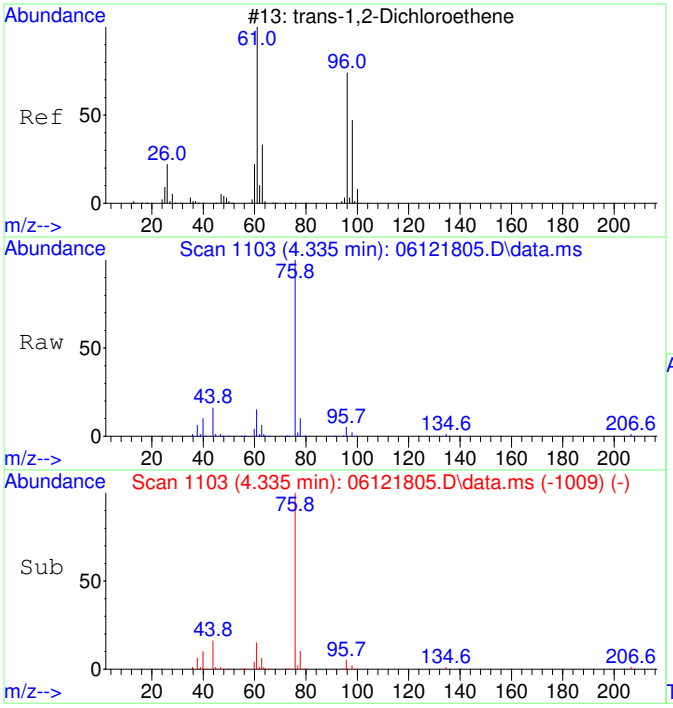
Tgt Ion: 61 Resp: 18210

Ion	Ratio	Lower	Upper
61	100		
96	66.1	23.8	83.8
98	36.4	8.8	68.8





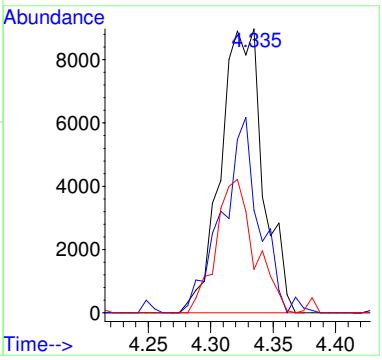


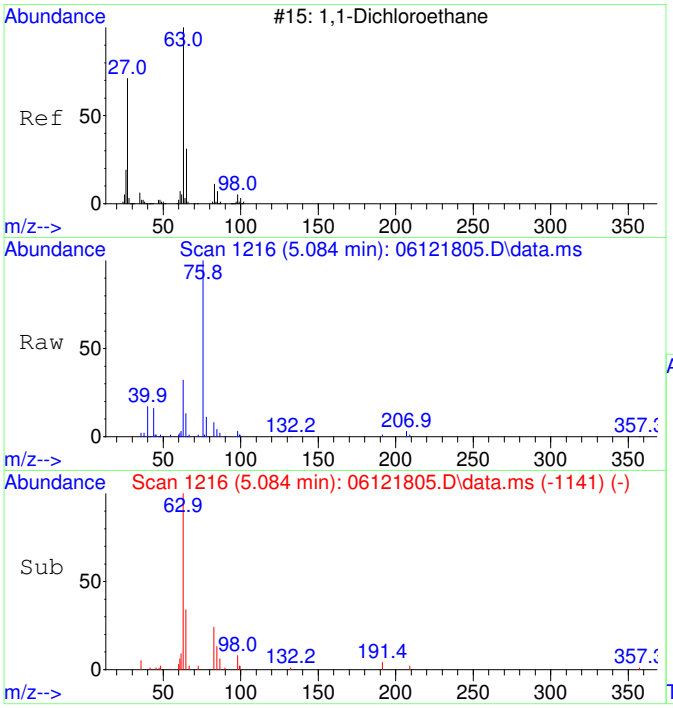


#27
trans-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 61 Resp: 21200

Ion	Ratio	Lower	Upper
61	100		
96	60.5	37.9	97.9
98	42.7	12.7	72.7

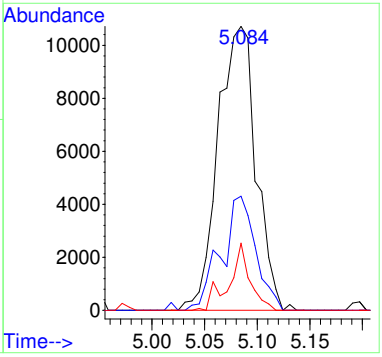


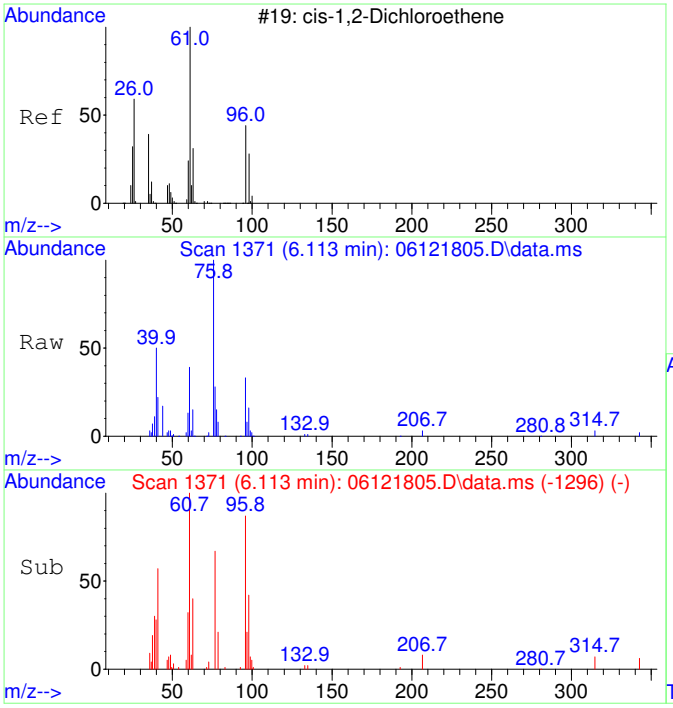


#28
1,1-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 63 Resp: 26970

Ion	Ratio	Lower	Upper
63	100		
65	36.2	7.5	67.5
83	12.9	0.0	34.3

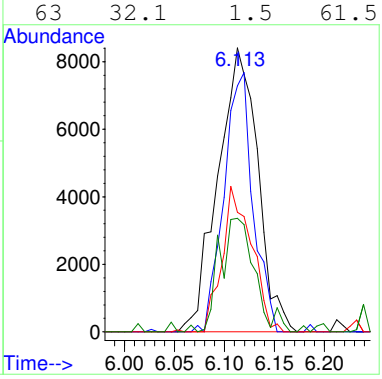


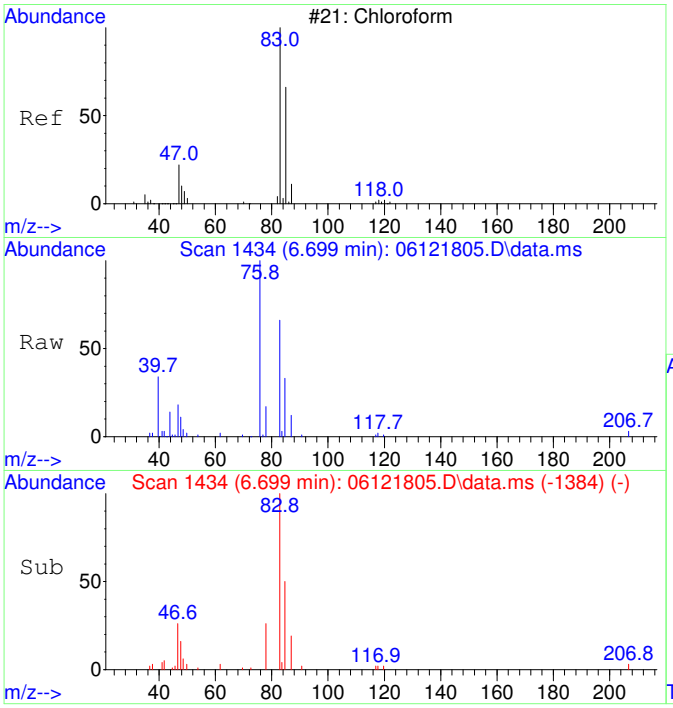


#29
cis-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 61 Resp: 23325

Ion	Ratio	Lower	Upper
61	100		
96	66.9	28.2	88.2
98	37.8	14.1	74.1
63	32.1	1.5	61.5

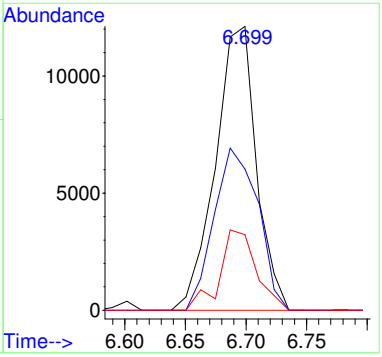


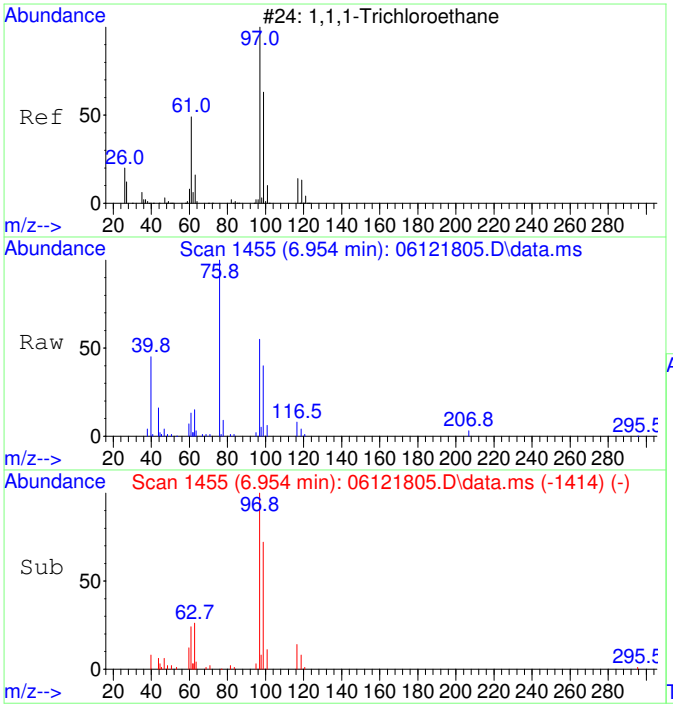


#30
Chloroform SCAN
Concen: 5000.00 ug/L
RT: 6.699 min Scan# 1434
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 83 Resp: 28630

Ion	Ratio	Lower	Upper
83	100		
85	61.2	32.6	92.6
47	25.3	0.0	57.9

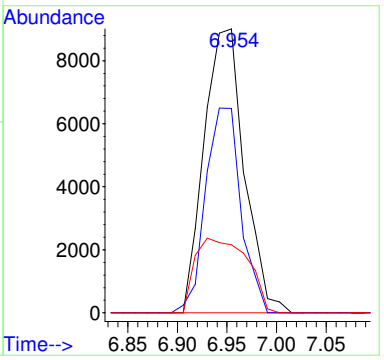


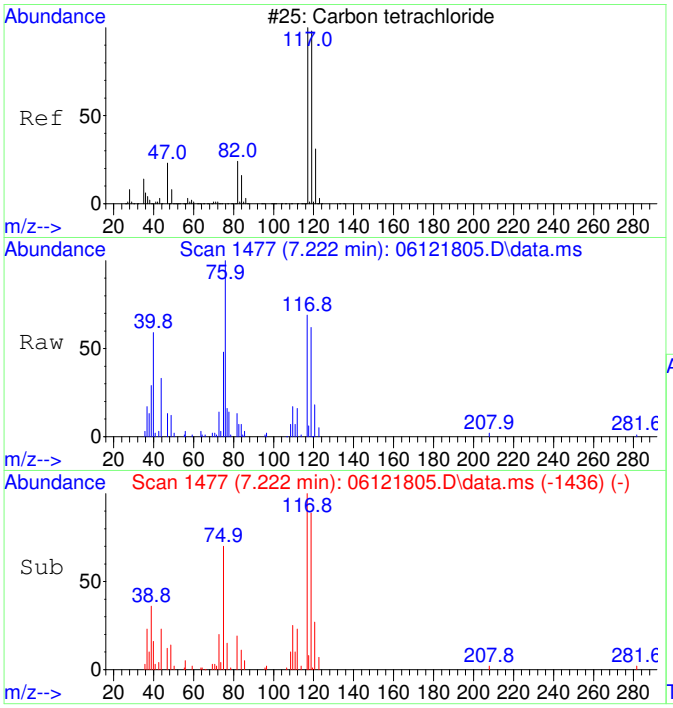


#31
1,1,1-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 6.954 min Scan# 1455
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 97 Resp: 25486

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

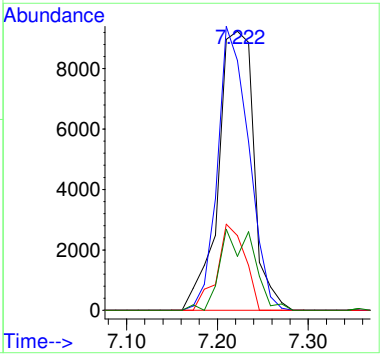


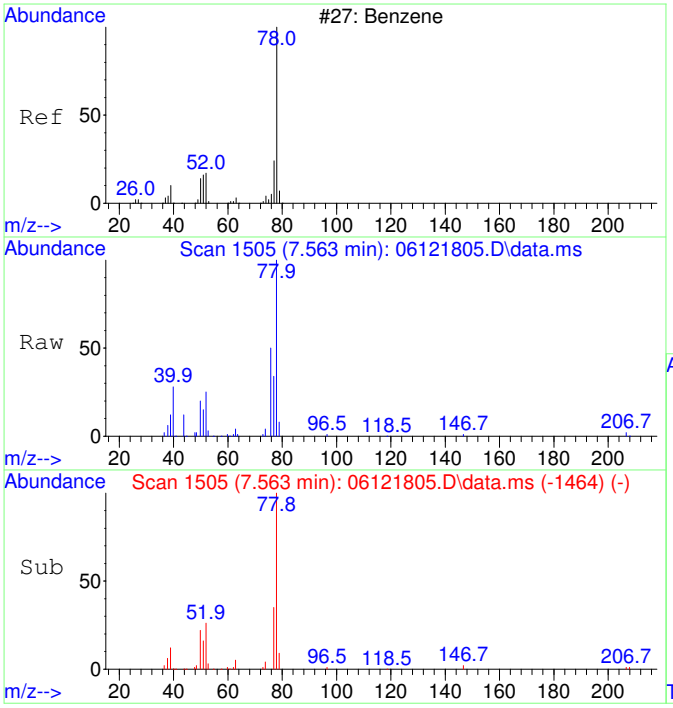


#32
Carbon tetrachloride SCAN
Concen: 5000.00 ug/L
RT: 7.222 min Scan# 1477
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:117 Resp: 25112

Ion	Ratio	Lower	Upper
117	100		
119	89.4	80.2	140.2
121	24.3	3.2	63.2
82	27.8	7.4	67.4

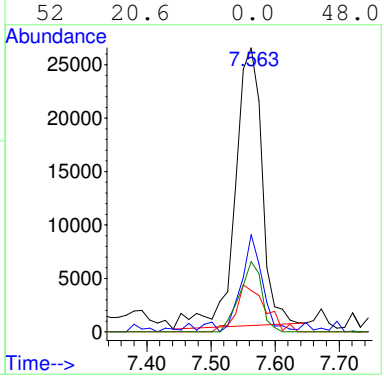


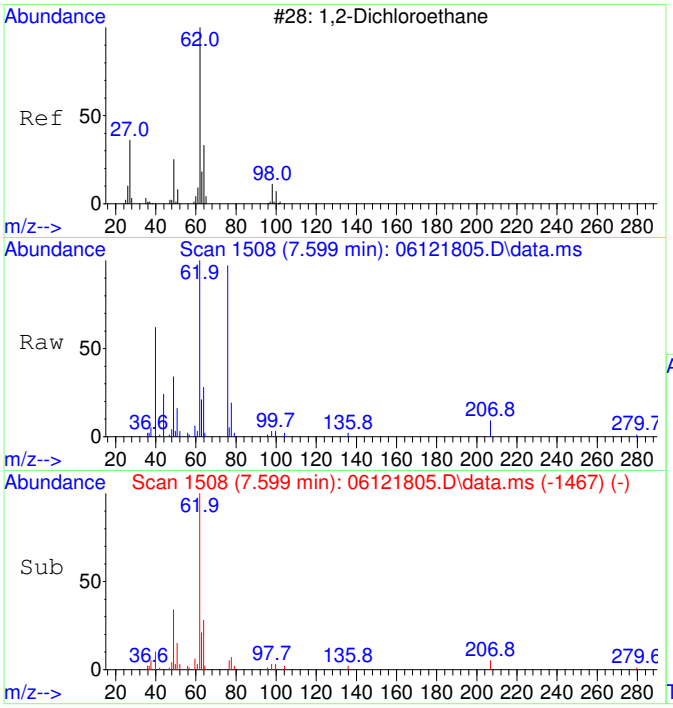


#33
Benzene SCAN
Concen: 5000.00 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 78 Resp: 76001

Ion	Ratio	Lower	Upper
78	100		
77	26.1	3.0	63.0
51	18.2	0.0	56.4
52	20.6	0.0	48.0

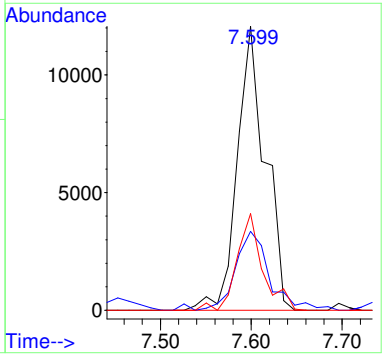


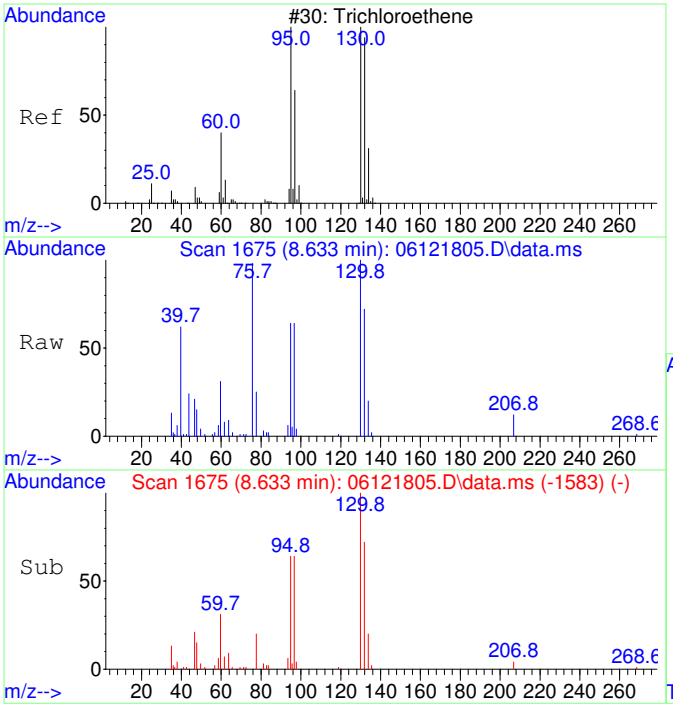


#34
1,2-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 62 Resp: 25919

Ion	Ratio	Lower	Upper
62	100		
64	33.8	1.2	61.2
49	31.2	10.4	70.4

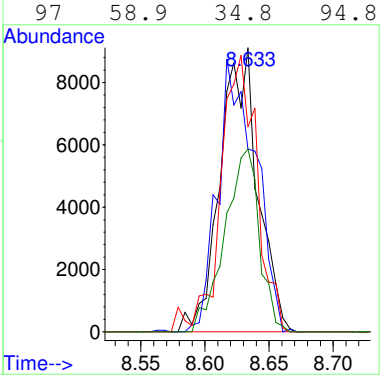


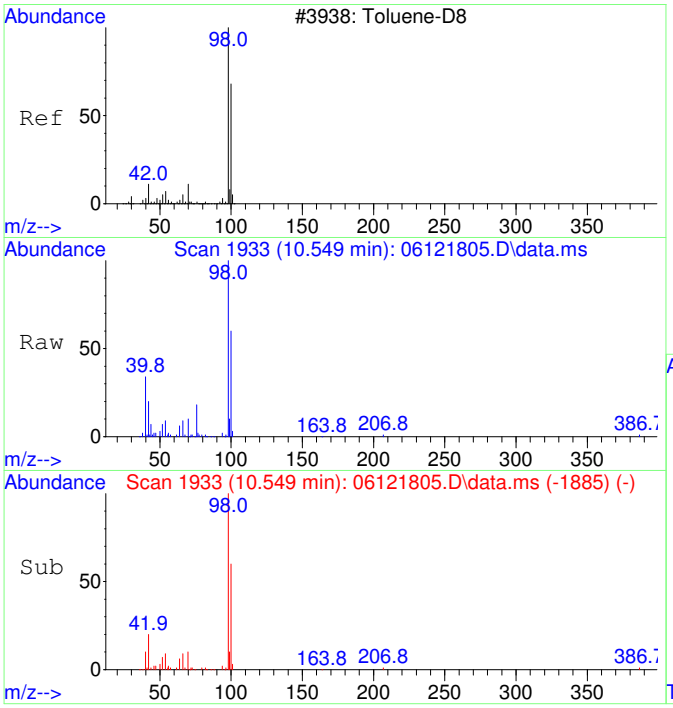


#35
Trichloroethene SCAN
Concen: 5000.00 ug/L
RT: 8.633 min Scan# 1675
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:130 Resp: 18598

Ion	Ratio	Lower	Upper
130	100		
95	96.4	70.5	130.5
132	93.3	63.8	123.8
97	58.9	34.8	94.8

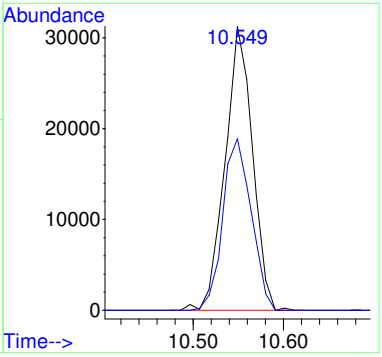


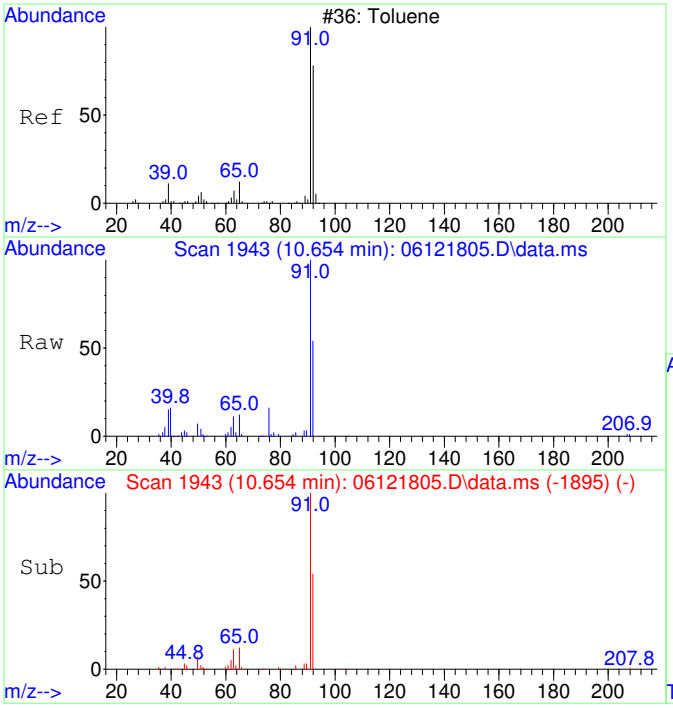


#36
Toluene-d8 SCAN
Concen: 5000.00 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 98 Resp: 65970

Ion	Ratio	Lower	Upper
98	100		
100	62.6	39.5	99.5

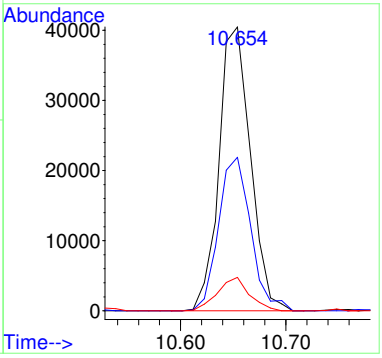


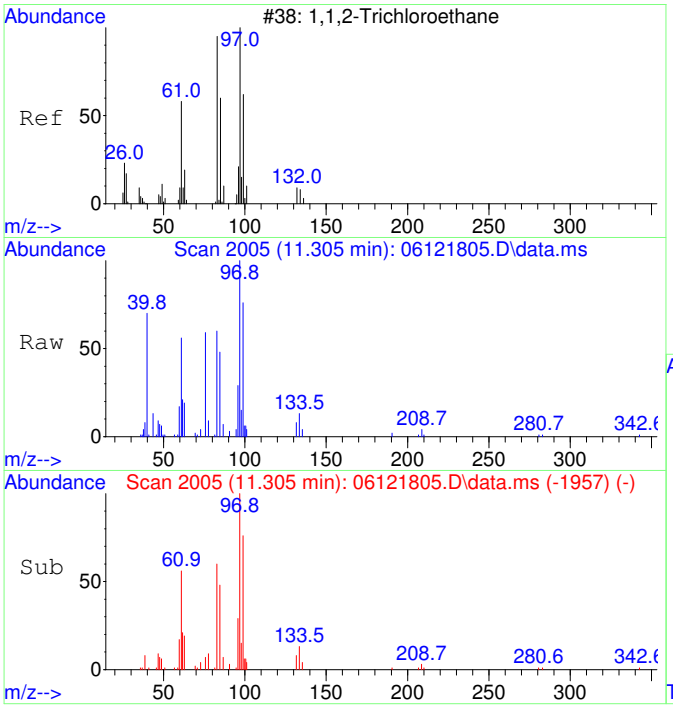


#37
Toluene SCAN
Concen: 5000.00 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 84270

Ion	Ratio	Lower	Upper
91	100		
92	55.4	26.6	86.6
65	12.0	0.0	42.3

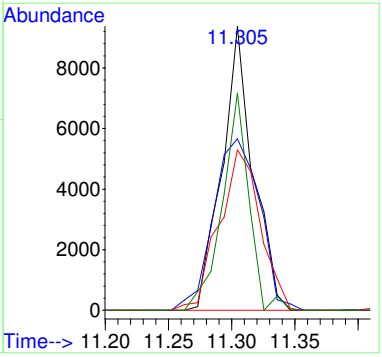


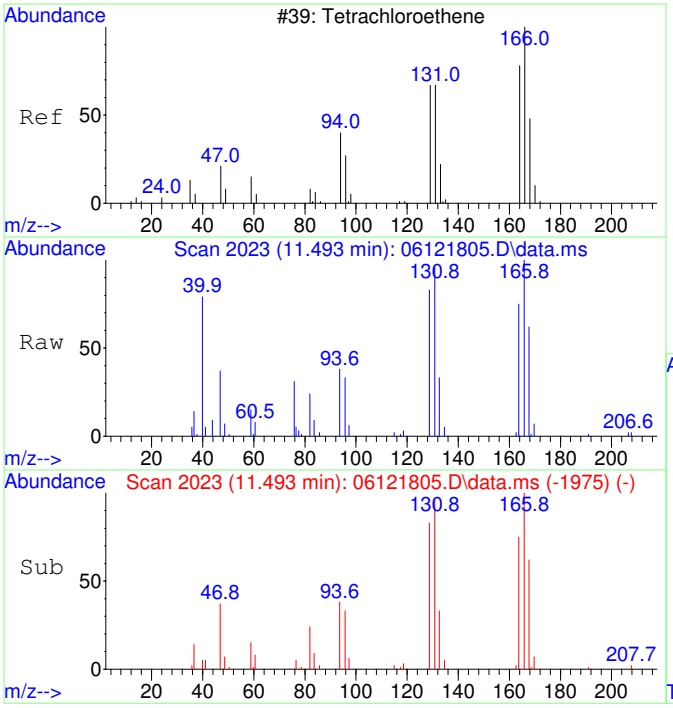


#38
1,1,2-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 11.305 min Scan# 2005
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 97 Resp: 16148

Ion	Ratio	Lower	Upper
97	100		
83	89.0	63.6	123.6
61	74.4	44.9	104.9
99	65.0	37.0	97.0

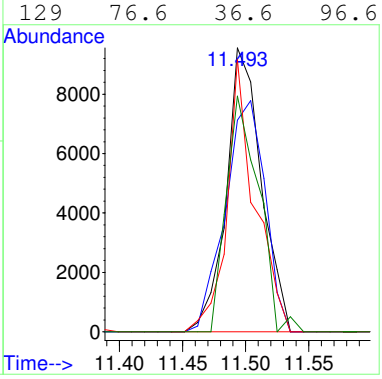


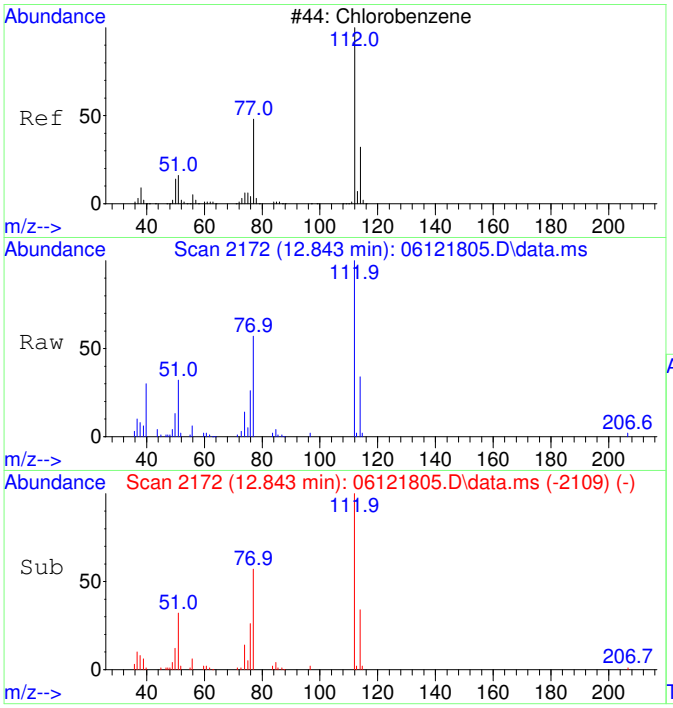


#39
Tetrachloroethene SCAN
Concen: 5000.00 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:166 Resp: 18492

Ion	Ratio	Lower	Upper
166	100		
164	92.8	43.3	103.3
131	76.5	35.6	95.6
129	76.6	36.6	96.6

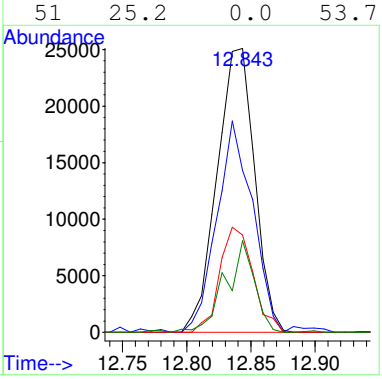


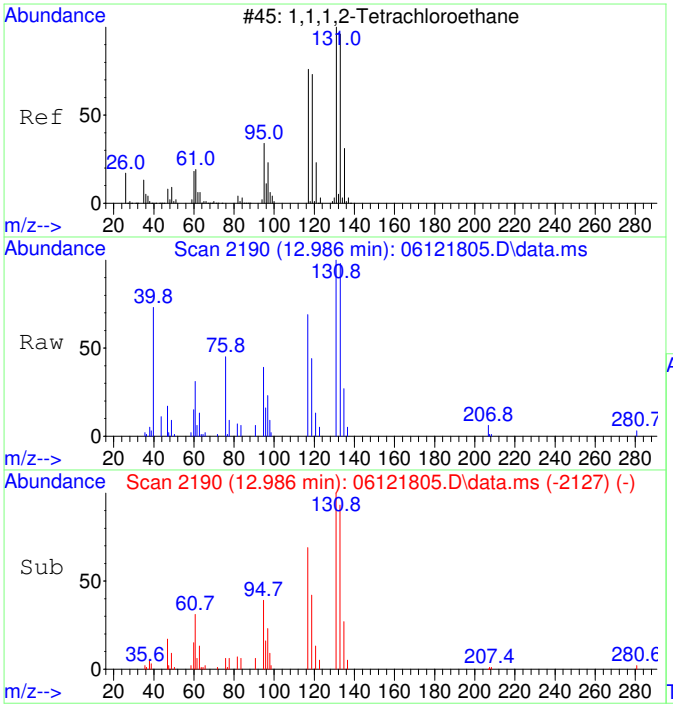


#40
Chlorobenzene SCAN
Concen: 5000.00 ug/L
RT: 12.843 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:112 Resp: 51120

Ion	Ratio	Lower	Upper
112	100		
77	72.0	28.4	88.4
114	32.6	0.0	59.5
51	25.2	0.0	53.7

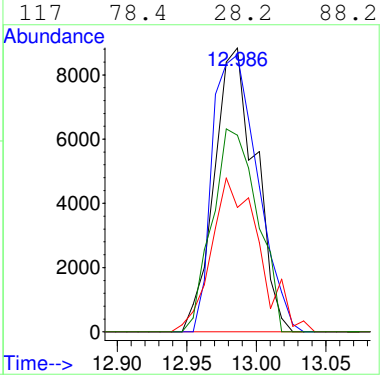


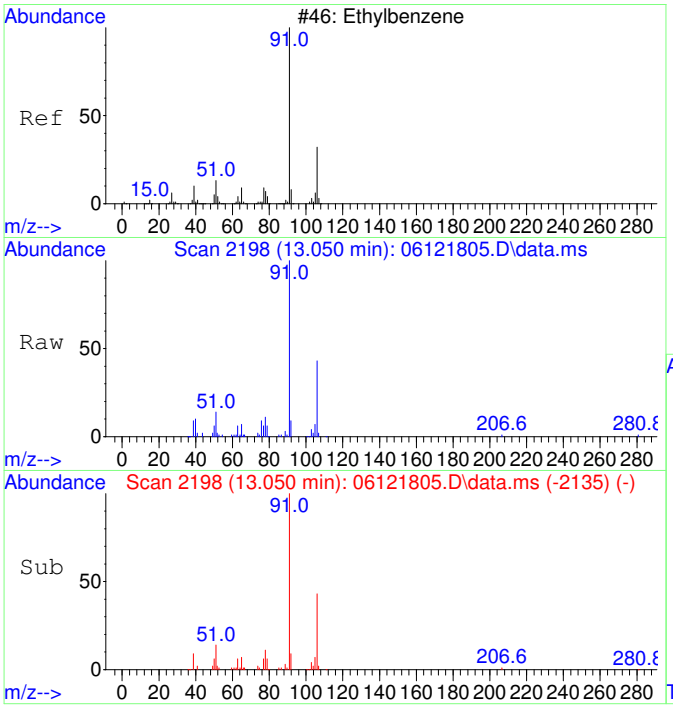


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 12.986 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:131 Resp: 18247

Ion	Ratio	Lower	Upper
131	100		
133	107.0	56.7	116.7
119	62.8	37.9	97.9
117	78.4	28.2	88.2

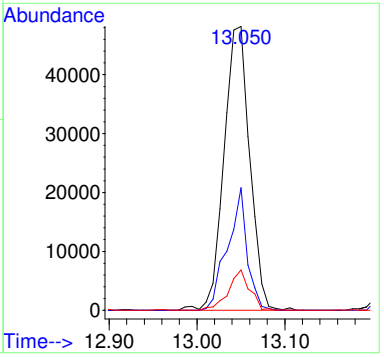


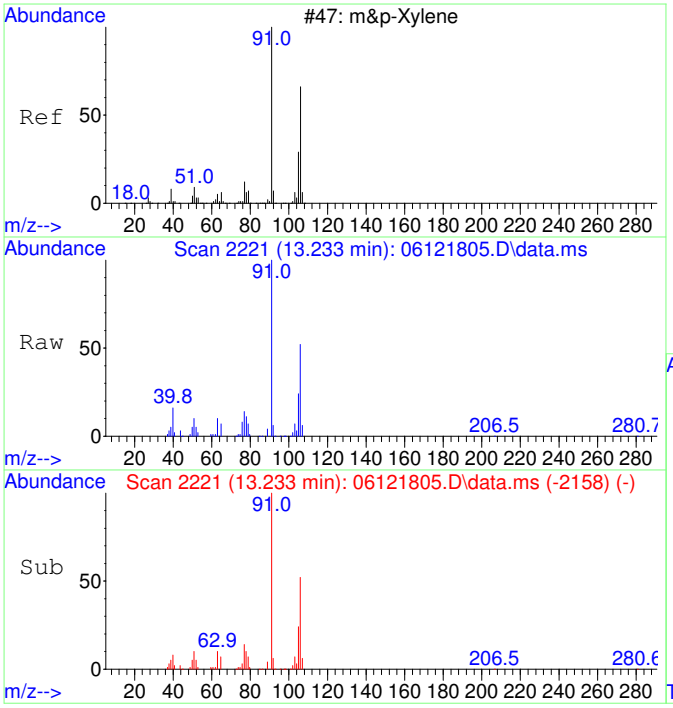


#42
Ethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 13.050 min Scan# 2198
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 97954

Ion	Ratio	Lower	Upper
91	100		
106	32.9	3.2	63.2
51	11.8	0.0	40.1

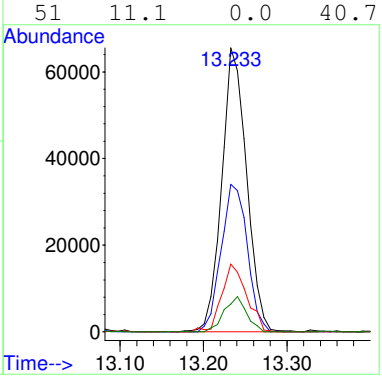


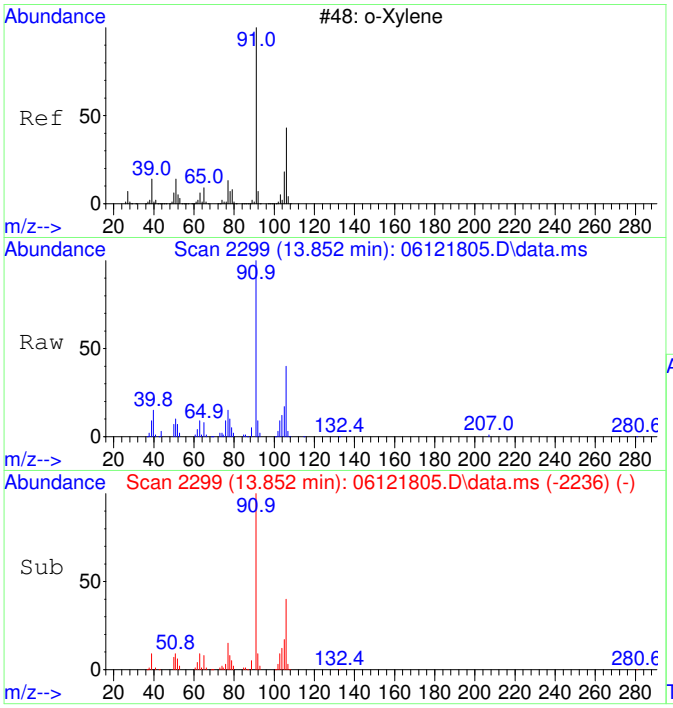


#43
m&p-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 135966

Ion	Ratio	Lower	Upper
91	100		
106	54.6	20.1	80.1
105	24.0	0.0	51.1
51	11.1	0.0	40.7

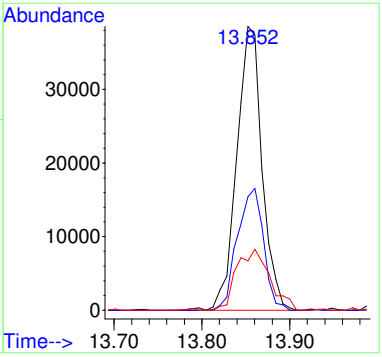


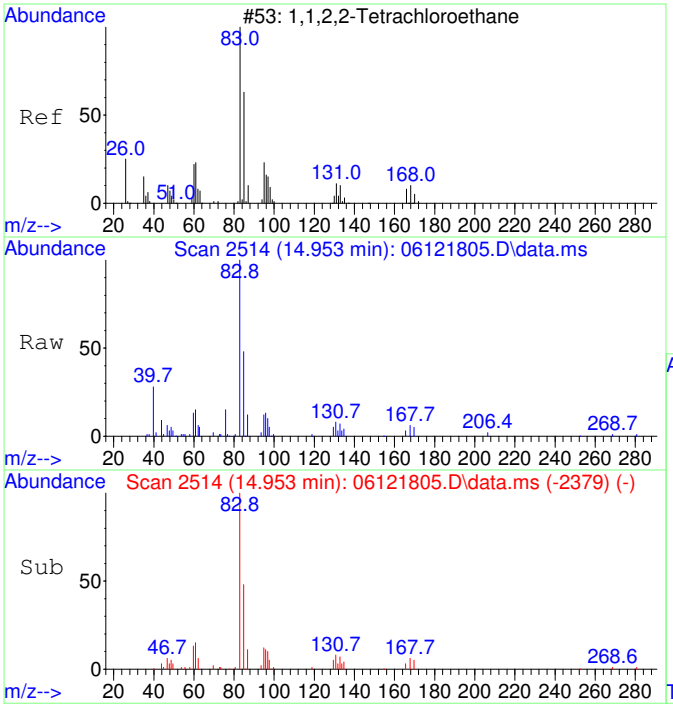


#44
o-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 77387

Ion	Ratio	Lower	Upper
91	100		
106	44.4	21.3	81.3
105	28.2	0.0	55.2

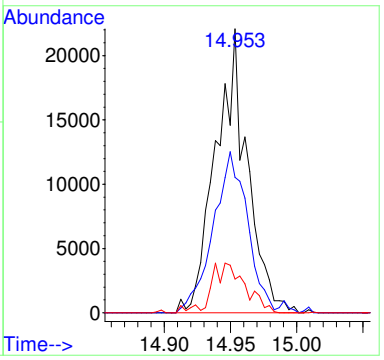


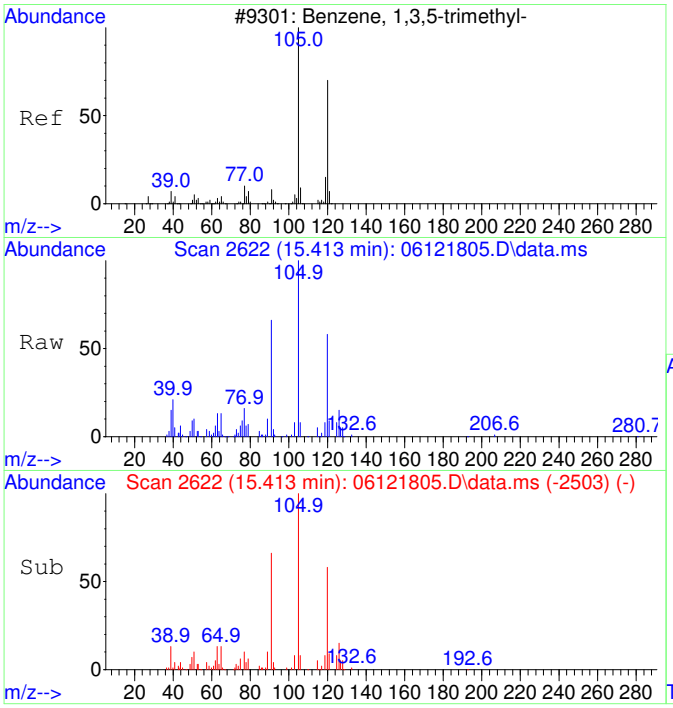


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 83 Resp: 36678

Ion	Ratio	Lower	Upper
83	100		
85	58.8	31.6	91.6
95	18.7	0.0	49.0

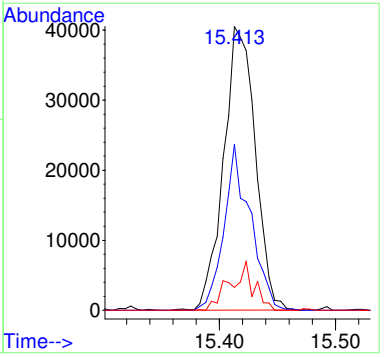


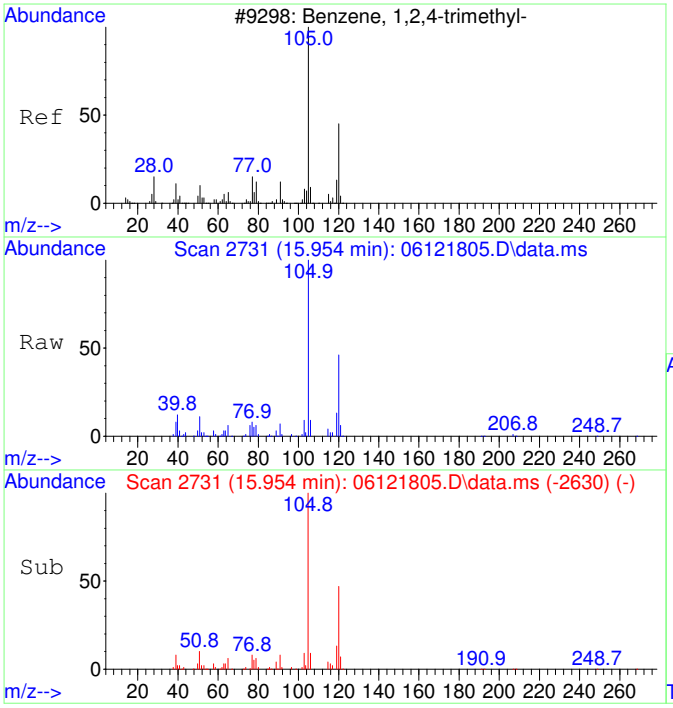


#46
1,3,5-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:105 Resp: 76730

Ion	Ratio	Lower	Upper
105	100		
120	48.6	16.8	76.8
119	12.9	0.0	41.5

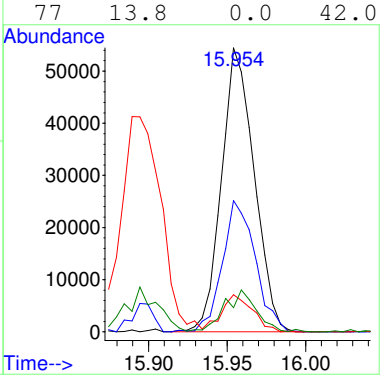


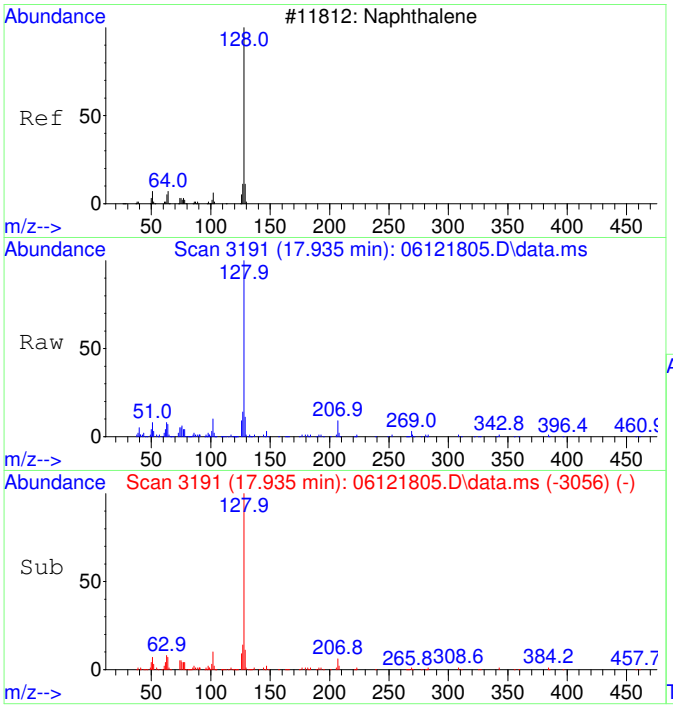


#47
1,2,4-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:105 Resp: 78636

Ion	Ratio	Lower	Upper
105	100		
120	46.4	15.4	75.4
119	11.4	0.0	41.7
77	13.8	0.0	42.0

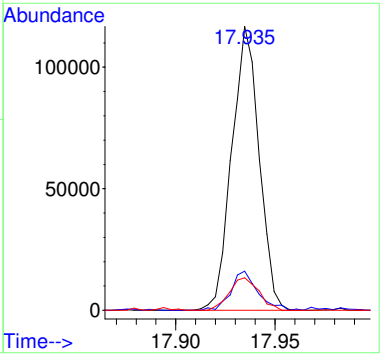




#48
Naphthalene SCAN
Concen: 5000.00 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:128 Resp: 112198

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	43.9
129	12.3	0.0	40.5



S18F027-CAL4

Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121806.D
Acq On : 12 Jun 2018 14:55
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL4
Misc : 1823101 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

M.I. Performed By:
RH at 1:35 pm, Jun 15, 2018

M.I. Approved By:
ZR at 10:12 am, Jun 20, 2018

Quant Time: Jun 14 17:03:18 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration

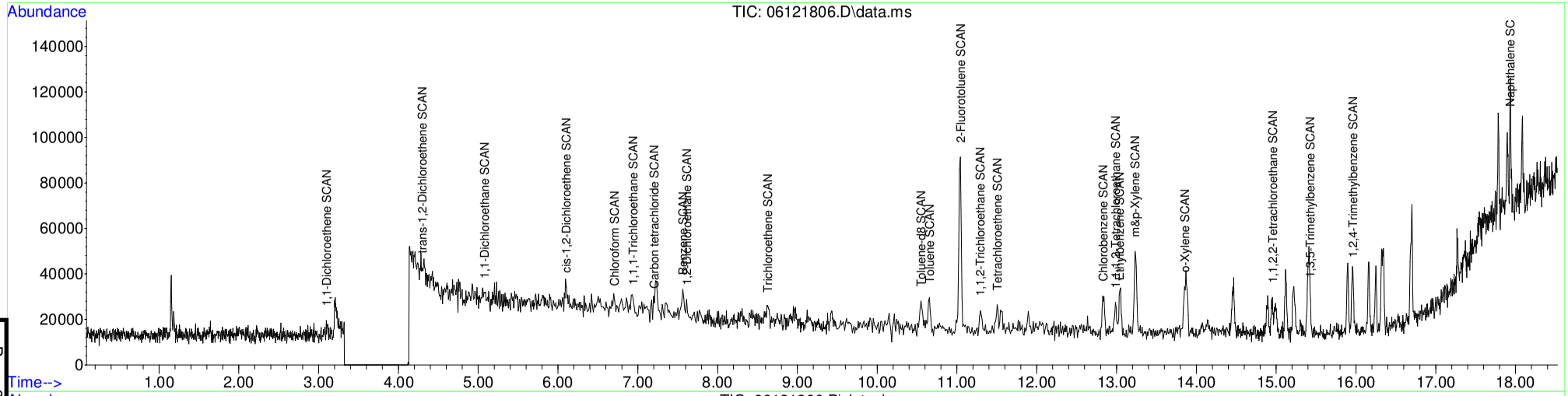
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	93886	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	15581	1021.71	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 20.43%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.105	61	3535m	880.06	ug/L	
3] trans-1,2-Dichloroethene	4.310	61	3894	927.55	ug/L	100
4] 1,1-Dichloroethane	5.073	63	4812	920.91	ug/L	97
5] cis-1,2-Dichloroethene	6.108	61	4717	915.08	ug/L	99
6] Chloroform	6.688	83	5164	930.38	ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	5246	960.24	ug/L	99
8] Carbon tetrachloride	7.211	117	4928	952.27	ug/L	99
9] Benzene	7.552	78	14597	968.33	ug/L	97
10] 1,2-Dichloroethane	7.588	62	4735	974.64	ug/L	95
11] Trichloroethene	8.624	130	4093	987.92	ug/L	99
13] Toluene	10.645	91	19927	974.57	ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	4175	987.89	ug/L	98
15] Tetrachloroethene	11.495	166	5891	1022.60	ug/L	100
16] Chlorobenzene	12.837	112	15016	1028.95	ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.988	131	5102	1030.18	ug/L	97
18] Ethylbenzene	13.043	91	25697	1047.26	ug/L	99
19] m&p-Xylene	13.234	91	40266	2126.18	ug/L	99
20] o-Xylene	13.846	91	21104	1052.20	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.951	83	9080	1051.19	ug/L	100
22] 1,3,5-Trimethylbenzene	15.418	105	23961	1055.83	ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	24317	1071.21	ug/L	100
24] Naphthalene	17.936	128	40548	1088.43	ug/L	99
25) 2-Fluorotoluene SCAN	11.042	109	54763	5005.66	ug/L	95
26) 1,1-Dichloroethene SCAN	3.096	61	449	164.47	ug/L	71
27) trans-1,2-Dichloroethe...	4.302	61	3299	1038.01	ug/L	74
28) 1,1-Dichloroethane SCAN	5.078	63	4065	1005.39	ug/L	60
29) cis-1,2-Dichloroethene...	6.106	61	3569	1020.65	ug/L	79
30) Chloroform SCAN	6.711	83	3921	913.54	ug/L #	28
31) 1,1,1-Trichloroethane ...	6.942	97	3459	905.32	ug/L	78
32) Carbon tetrachloride SCAN	7.210	117	2950	783.60	ug/L #	13
33) Benzene SCAN	7.563	78	10523	923.58	ug/L	82
34) 1,2-Dichloroethane SCAN	7.611	62	2988	768.98	ug/L #	50
35) Trichloroethene SCAN	8.634	130	2787	999.60	ug/L #	85
36) Toluene-d8 SCAN	10.549	98	9720	982.82	ug/L	94
37) Toluene SCAN	10.654	91	11076	876.73	ug/L	84
38) 1,1,2-Trichloroethane ...	11.294	97	2420	999.66	ug/L #	63
39) Tetrachloroethene SCAN	11.504	166	4416	1592.94	ug/L #	81
40) Chlorobenzene SCAN	12.828	112	10806	1410.03	ug/L #	79
41) 1,1,1,2-Tetrachloroeth...	12.987	131	2083	761.47	ug/L #	56
42) Ethylbenzene SCAN	13.034	91	16434	1119.12	ug/L	94
43) m&p-Xylene SCAN	13.233	91	24721	1212.80	ug/L	99
44) o-Xylene SCAN	13.852	91	14911	1285.26	ug/L	80
45) 1,1,2,2-Tetrachloroeth...	14.953	83	5435	988.43	ug/L #	48
46) 1,3,5-Trimethylbenzene...	15.427	105	15256	1326.26	ug/L	90
47) 1,2,4-Trimethylbenzene...	15.963	105	14988	1271.38	ug/L	95
48) Naphthalene SCAN	17.935	128	23263	1383.04	ug/L	97

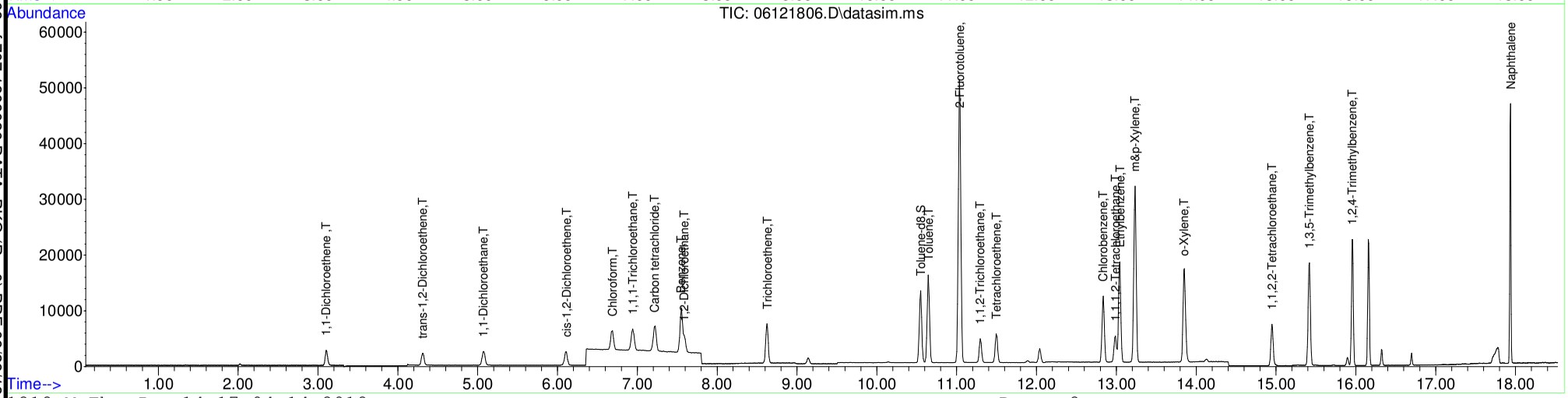
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121806.D
Acq On : 12 Jun 2018 14:55
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL4
Misc : 1823101 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 17:03:18 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration





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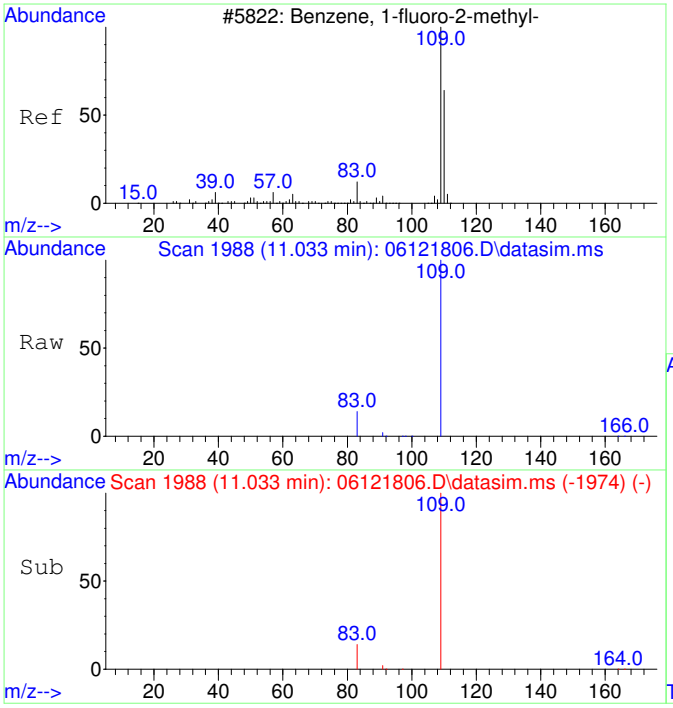
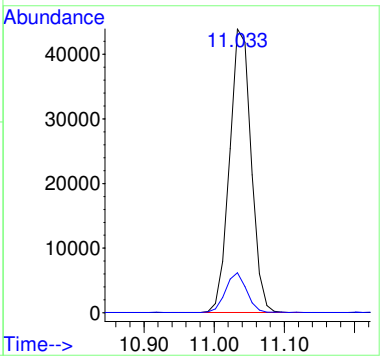
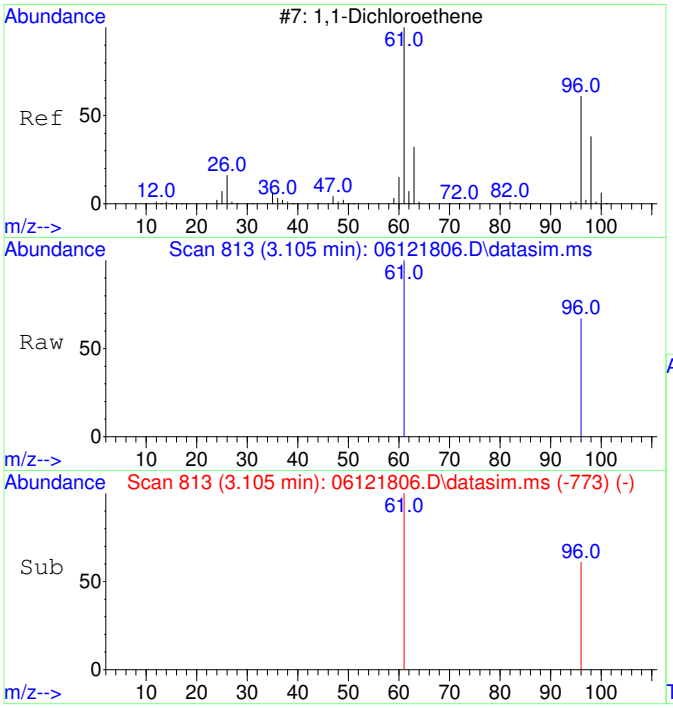


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:109 Resp: 93886

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.7

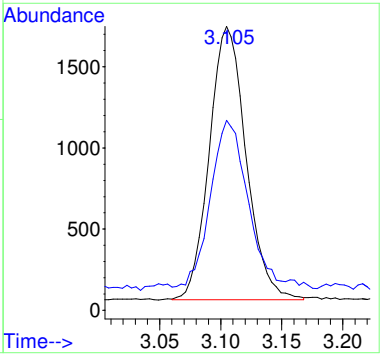


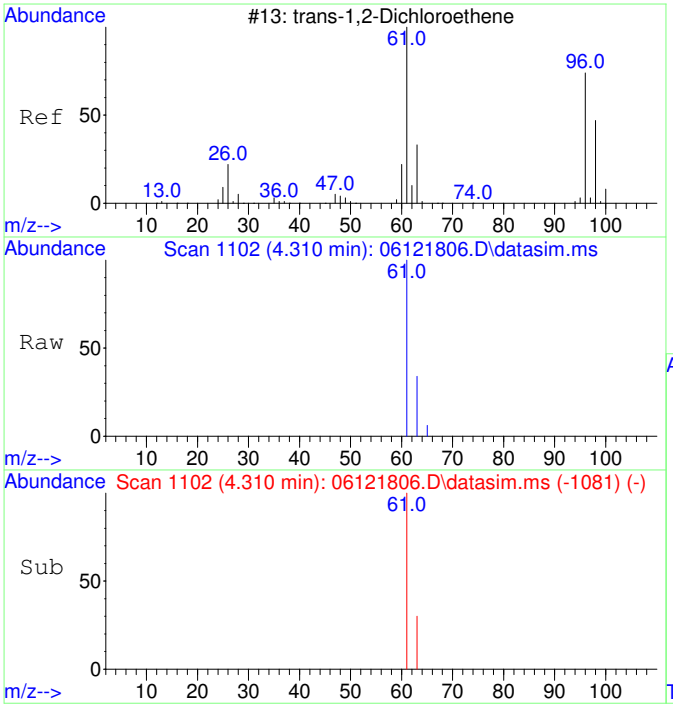


#2
1,1-Dichloroethene
Concen: 880.06 ug/L m
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3535

Ion	Ratio	Lower	Upper
61	100		
96	70.6	28.7	88.7

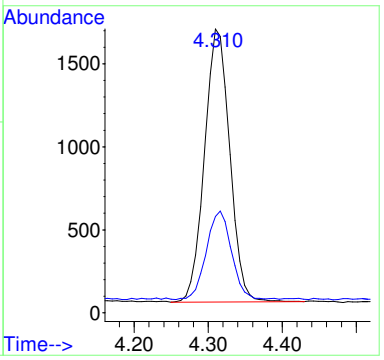


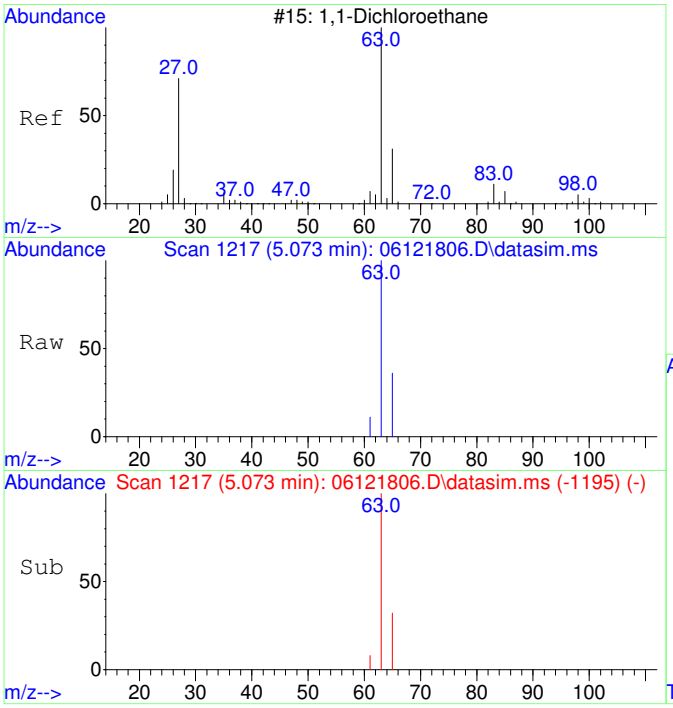


#3
trans-1,2-Dichloroethene
Concen: 927.55 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3894

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.0	62.0

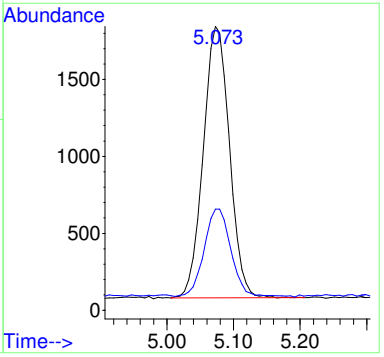


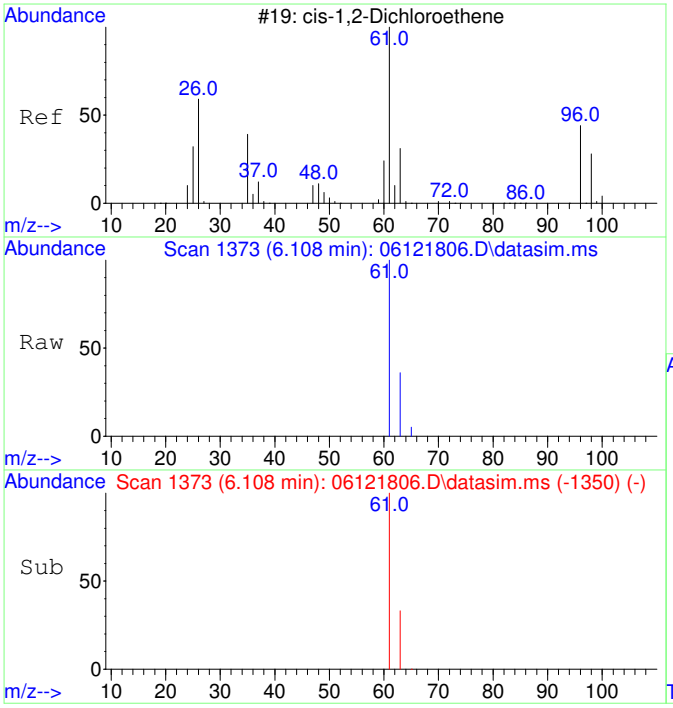


#4
1,1-Dichloroethane
Concen: 920.91 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 63 Resp: 4812

Ion	Ratio	Lower	Upper
63	100		
65	33.2	1.5	61.5

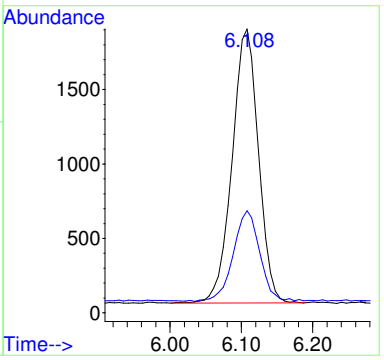


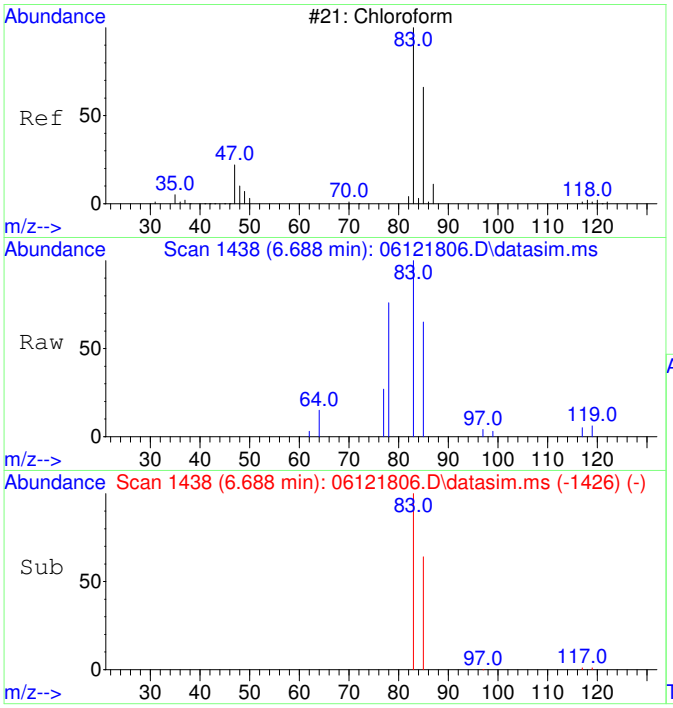


#5
cis-1,2-Dichloroethene
Concen: 915.08 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 4717

Ion	Ratio	Lower	Upper
61	100		
63	32.7	2.2	62.2

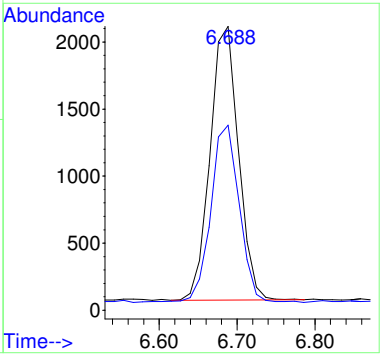


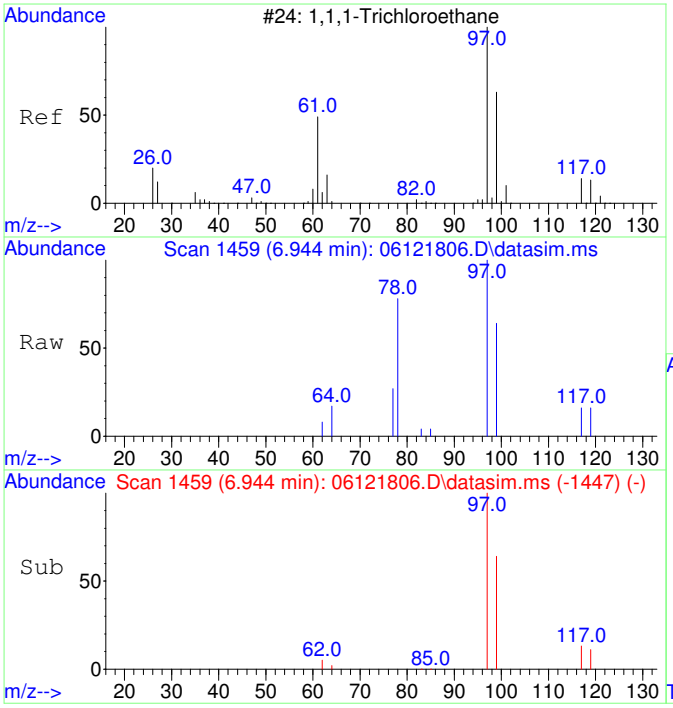


#6
Chloroform
Concen: 930.38 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 5164

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.8	94.8

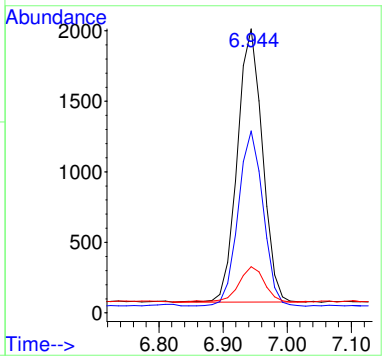


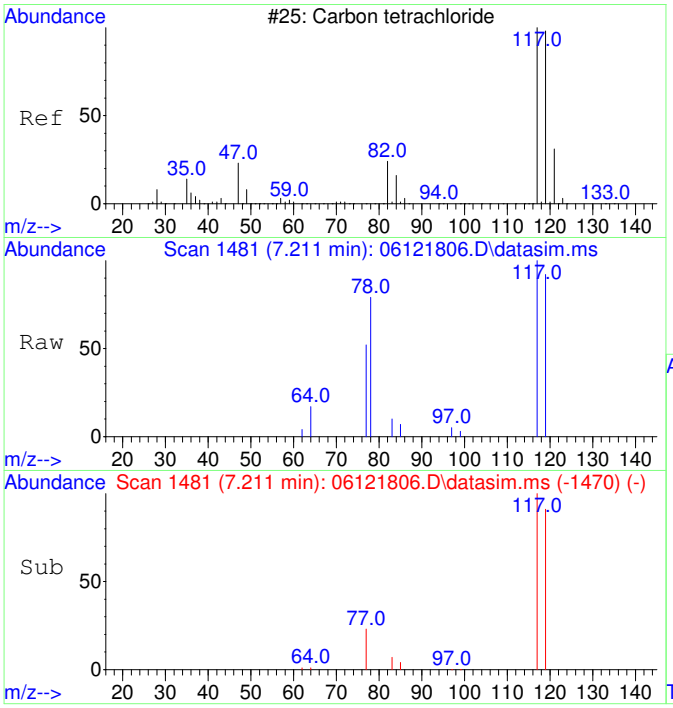


#7
1,1,1-Trichloroethane
Concen: 960.24 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 5246

Ion	Ratio	Lower	Upper
97	100		
99	63.9	34.6	94.6
117	13.4	0.0	42.9

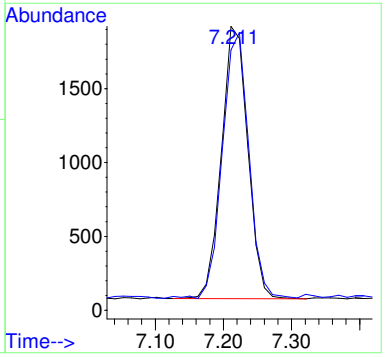


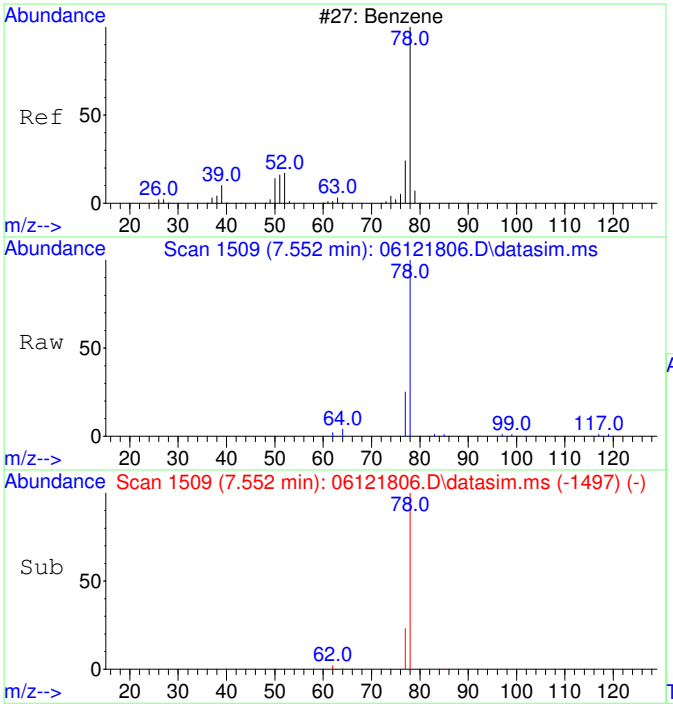


#8
Carbon tetrachloride
Concen: 952.27 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:117 Resp: 4928

Ion	Ratio	Lower	Upper
117	100		
119	97.0	65.9	125.9

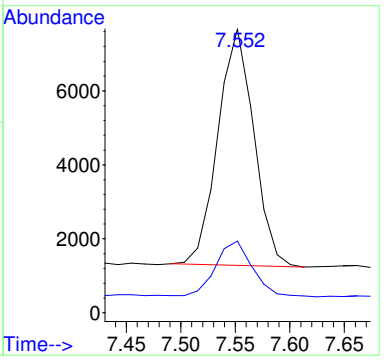


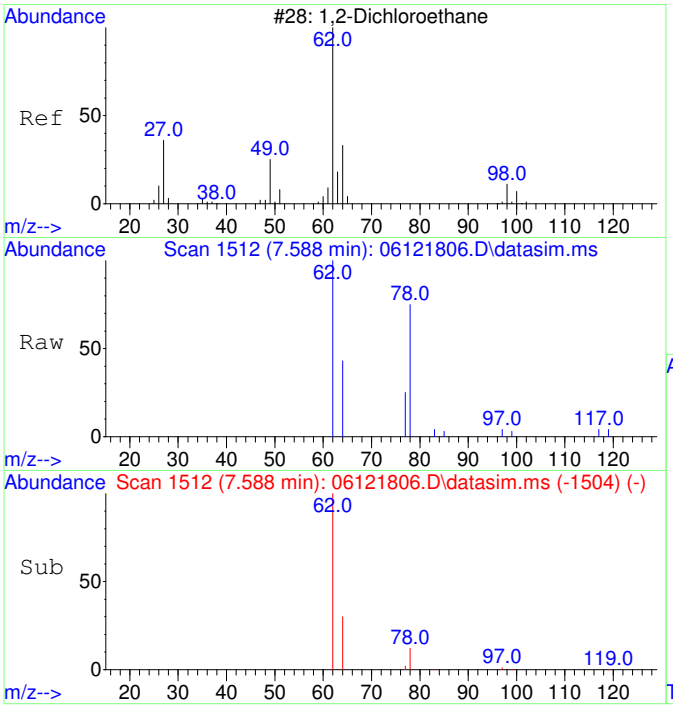


#9
Benzene
Concen: 968.33 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 78 Resp: 14597

Ion	Ratio	Lower	Upper
78	100		
77	24.6	0.0	53.0

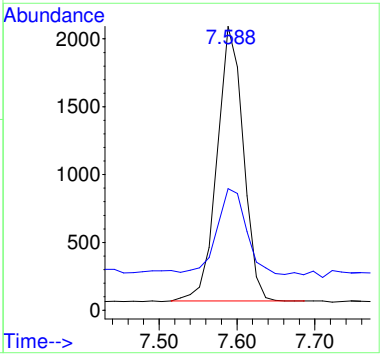


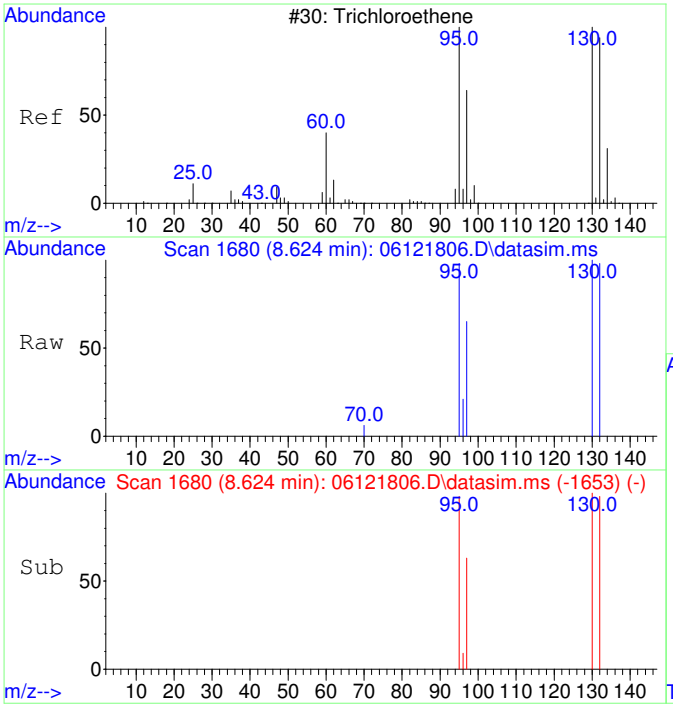


#10
1,2-Dichloroethane
Concen: 974.64 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 62 Resp: 4735

Ion	Ratio	Lower	Upper
62	100		
64	35.0	2.3	62.3

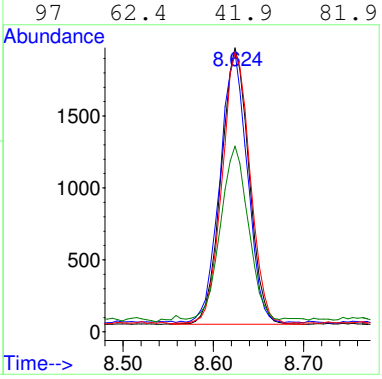


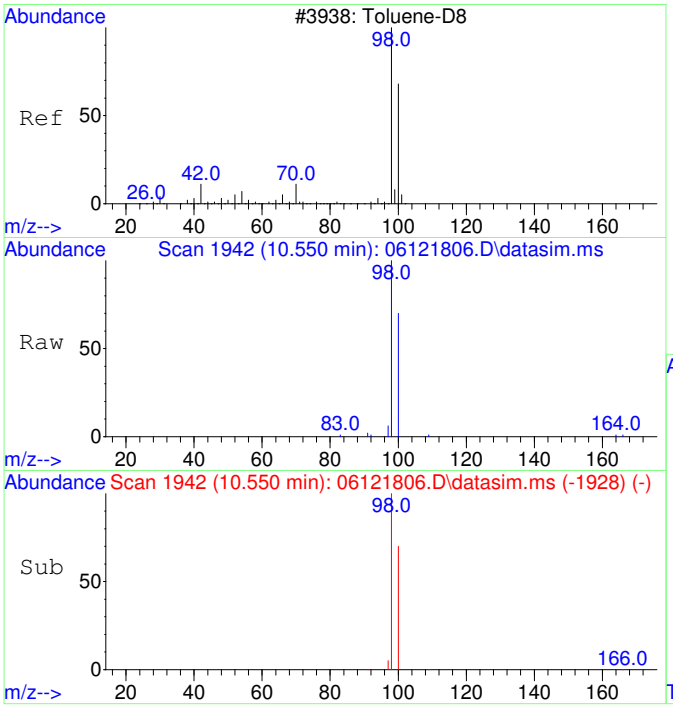


#11
Trichloroethene
Concen: 987.92 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:130 Resp: 4093

Ion	Ratio	Lower	Upper
130	100		
95	96.7	66.0	126.0
132	99.1	78.8	118.8
97	62.4	41.9	81.9

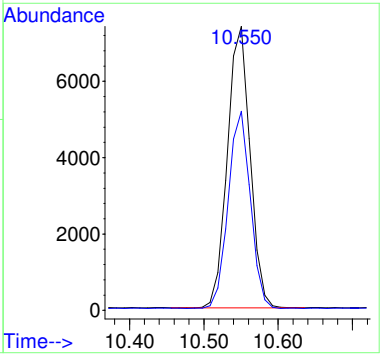


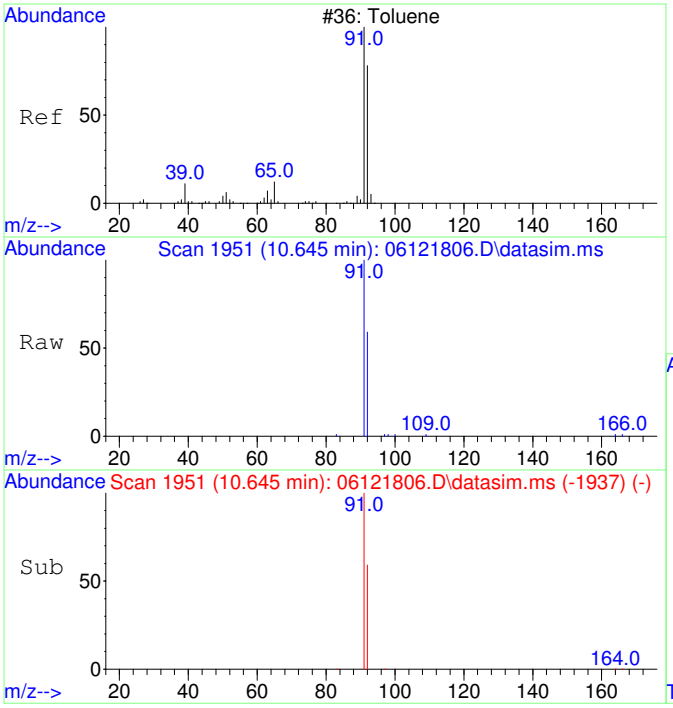


#12
Toluene-d8
Concen: 1021.71 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 98 Resp: 15581

Ion	Ratio	Lower	Upper
98	100		
100	68.3	38.7	98.7

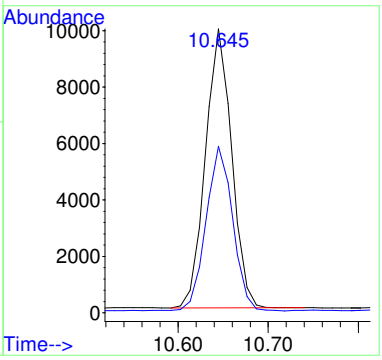


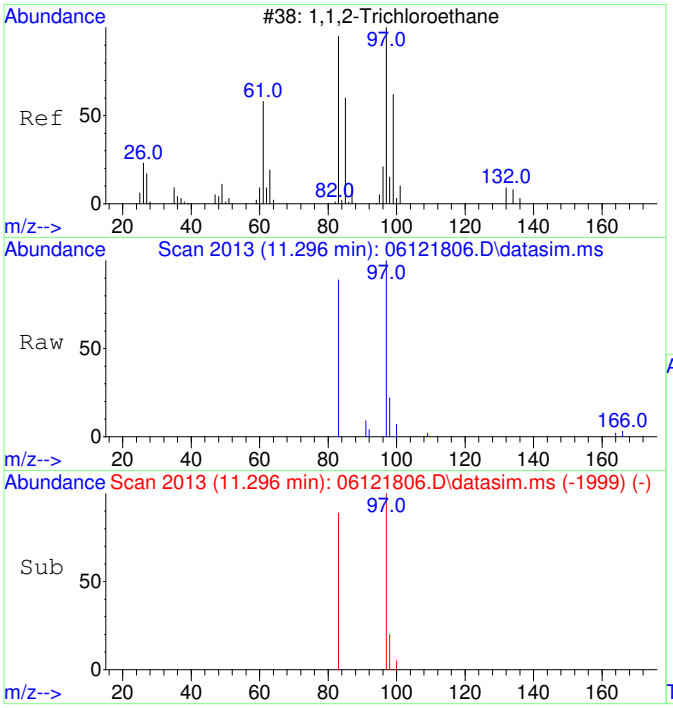


#13
Toluene
Concen: 974.57 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 19927

Ion	Ratio	Lower	Upper
91	100		
92	59.8	30.0	90.0

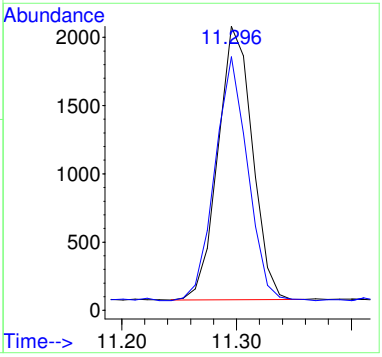


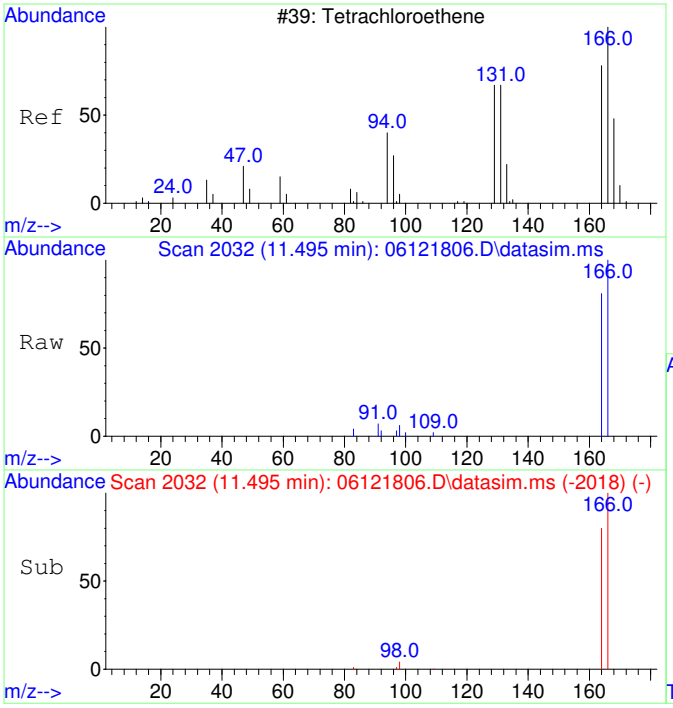


#14
1,1,2-Trichloroethane
Concen: 987.89 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 4175

Ion	Ratio	Lower	Upper
97	100		
83	84.8	53.4	113.4

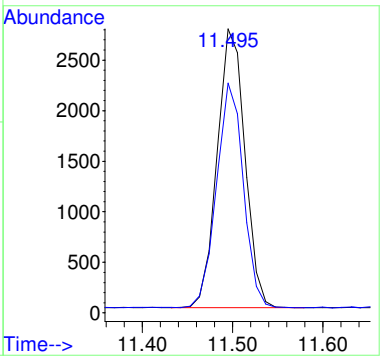


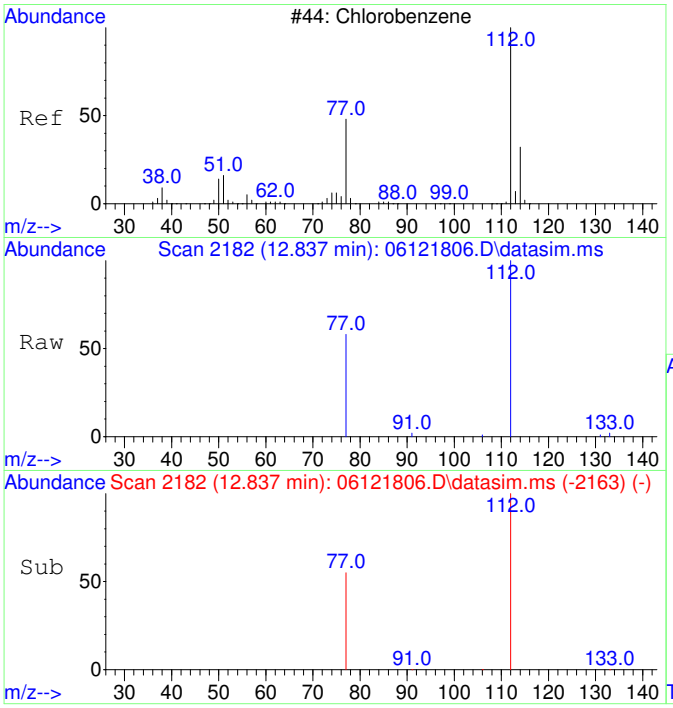


#15
Tetrachloroethene
Concen: 1022.60 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:166 Resp: 5891

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

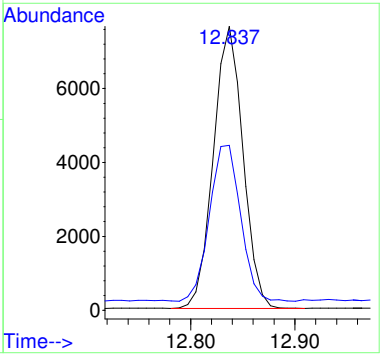


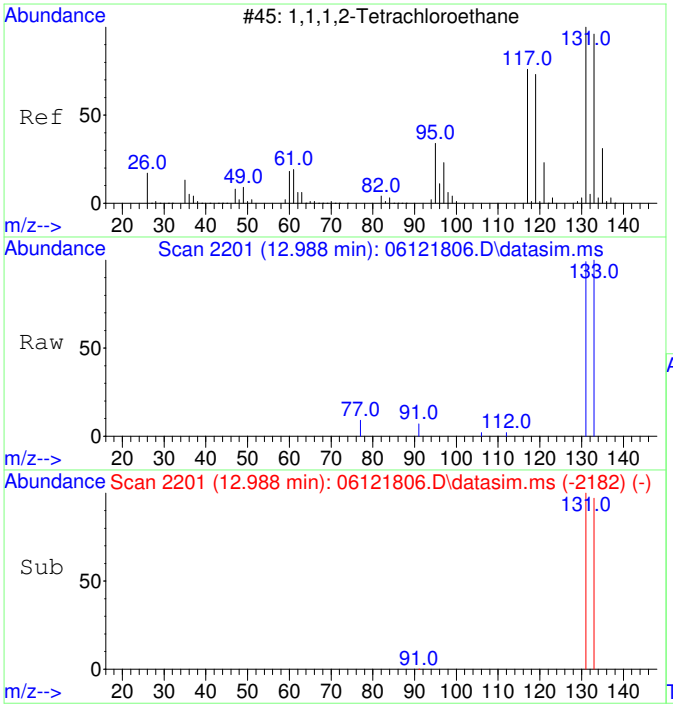


#16
Chlorobenzene
Concen: 1028.95 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:112 Resp: 15016

Ion	Ratio	Lower	Upper
112	100		
77	57.9	28.1	88.1

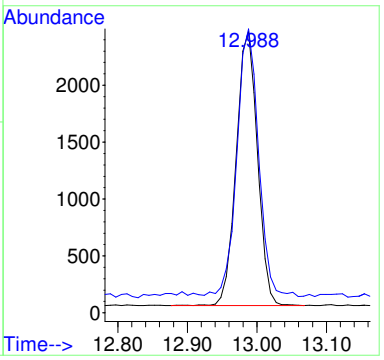


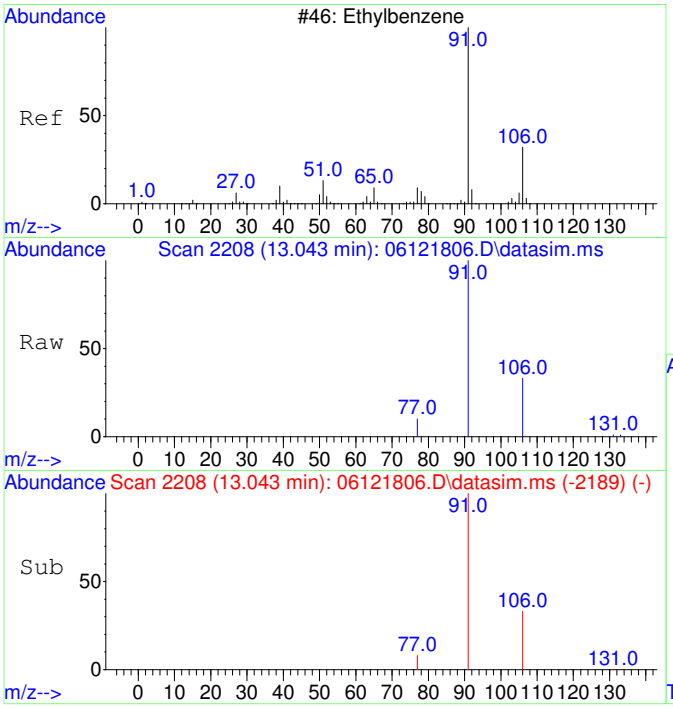


#17
1,1,1,2-Tetrachloroethane
Concen: 1030.18 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:131 Resp: 5102

Ion	Ratio	Lower	Upper
131	100		
133	99.1	66.2	126.2

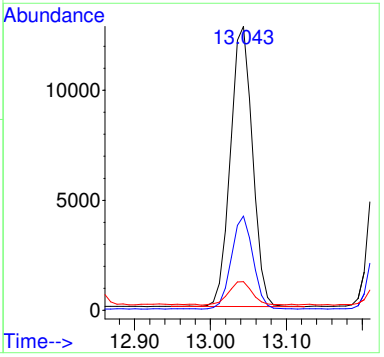


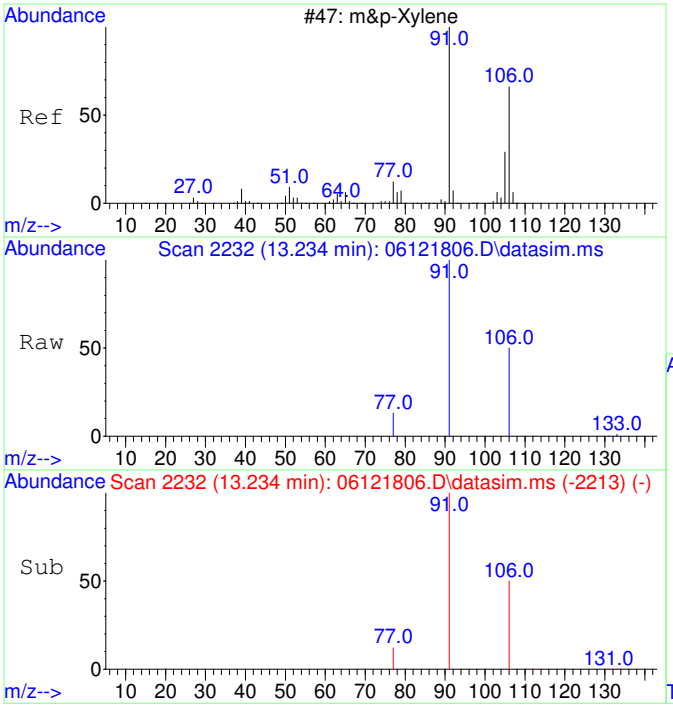


#18
Ethylbenzene
Concen: 1047.26 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 25697

Ion	Ratio	Lower	Upper
91	100		
106	32.5	2.8	62.8
77	9.2	0.0	38.6

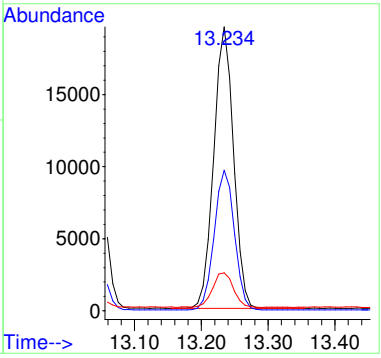


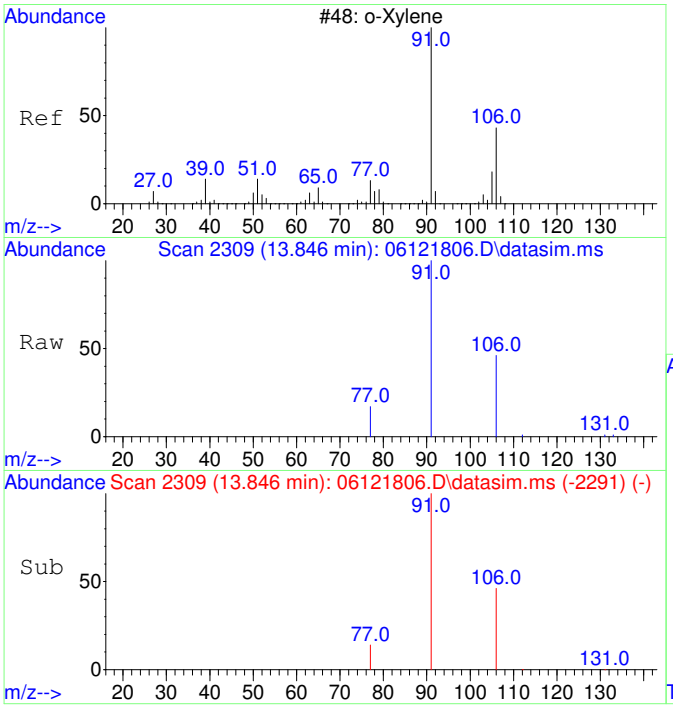


#19
m&p-Xylene
Concen: 2126.18 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 40266

Ion	Ratio	Lower	Upper
91	100		
106	50.6	21.2	81.2
77	13.1	0.0	42.9

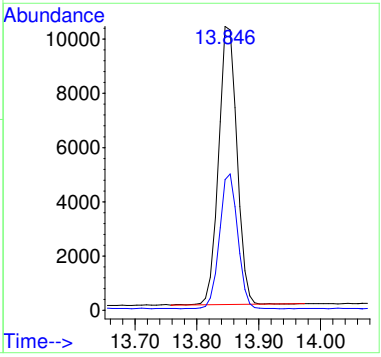


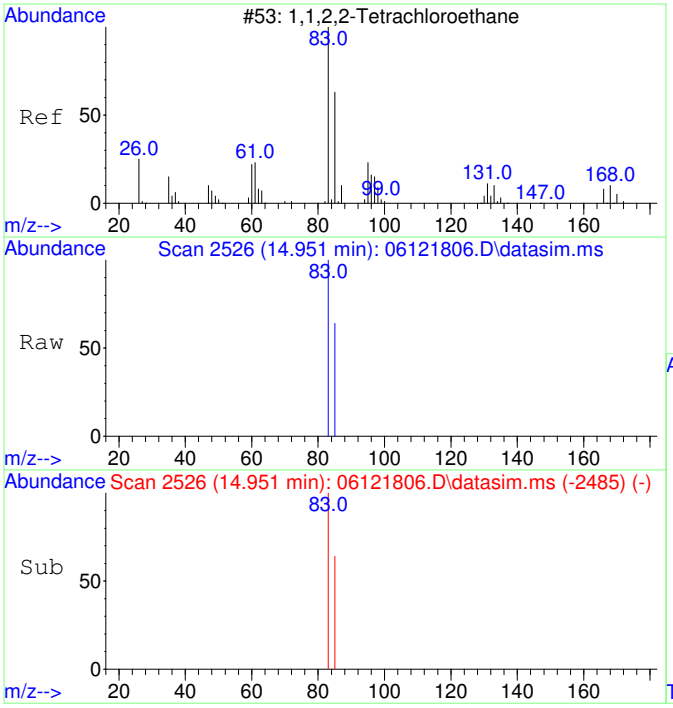


#20
o-Xylene
Concen: 1052.20 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 21104

Ion	Ratio	Lower	Upper
91	100		
106	48.1	18.3	78.3

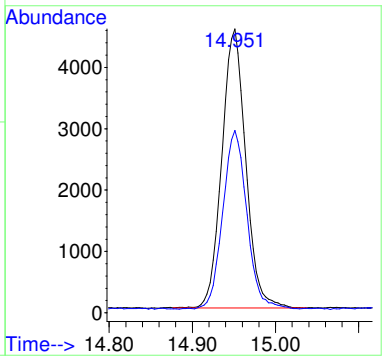


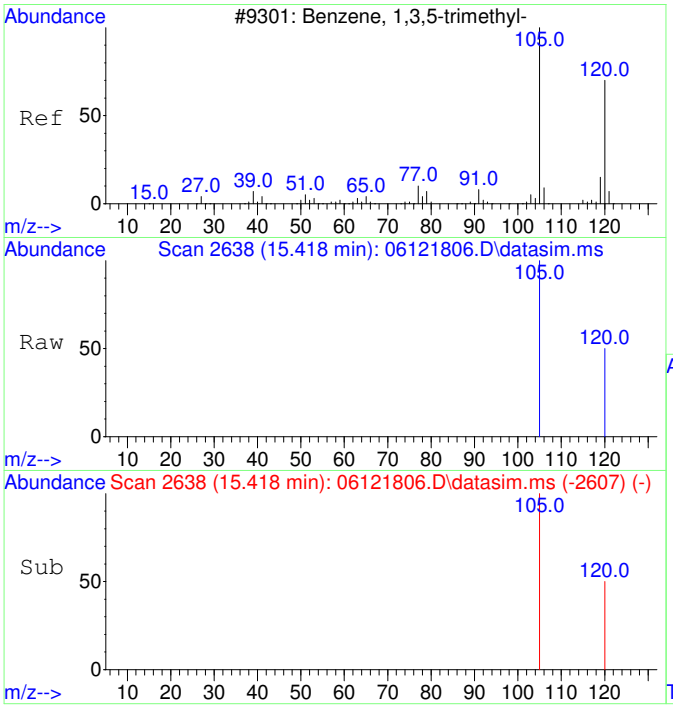


#21
1,1,2,2-Tetrachloroethane
Concen: 1051.19 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 9080

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.4	94.4

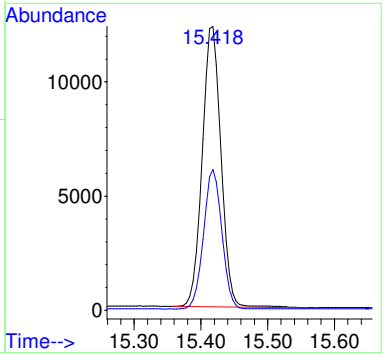


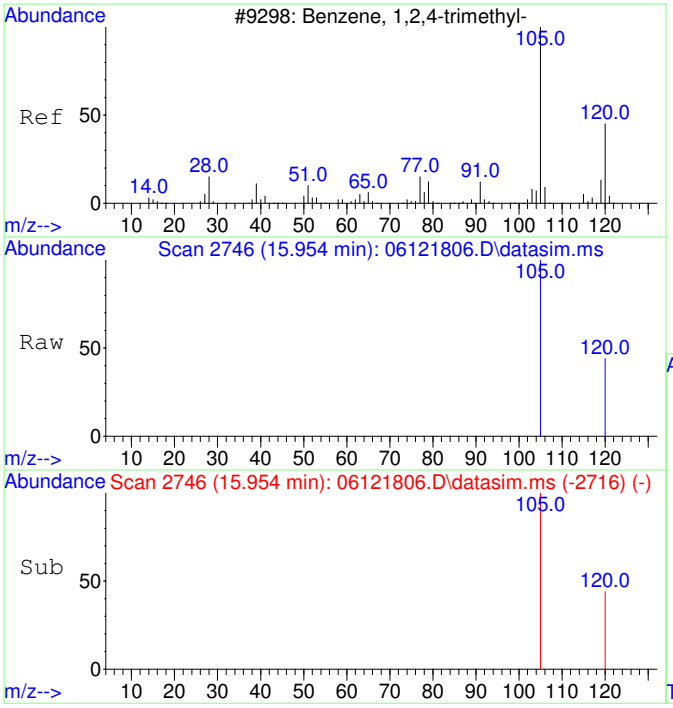


#22
1,3,5-Trimethylbenzene
Concen: 1055.83 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 23961

Ion	Ratio	Lower	Upper
105	100		
120	48.4	19.1	79.1

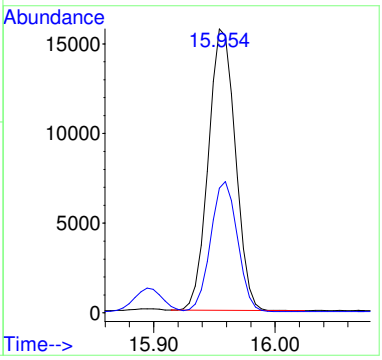


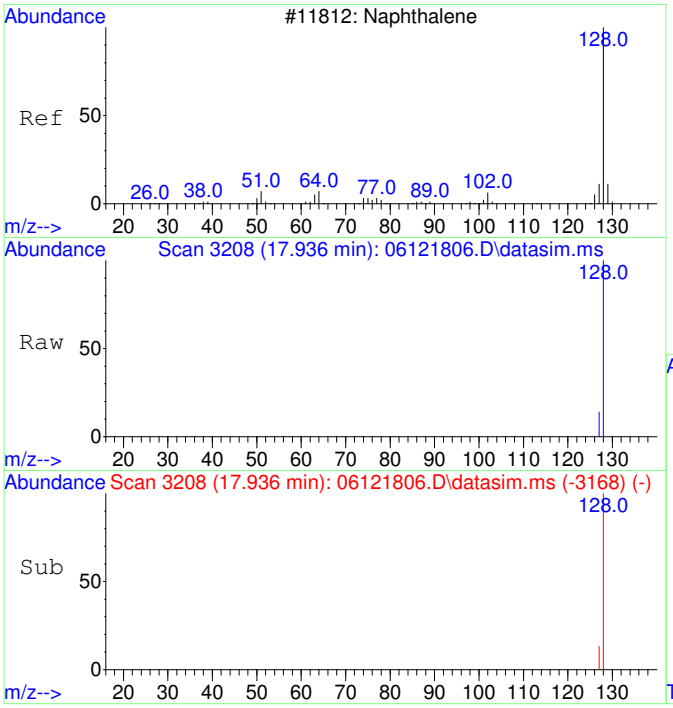


#23
1,2,4-Trimethylbenzene
Concen: 1071.21 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 24317

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

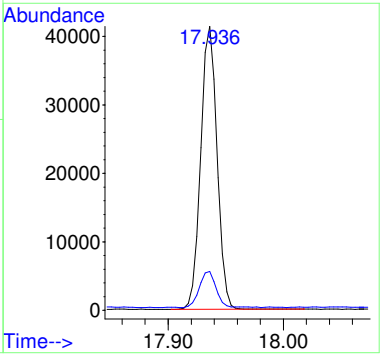


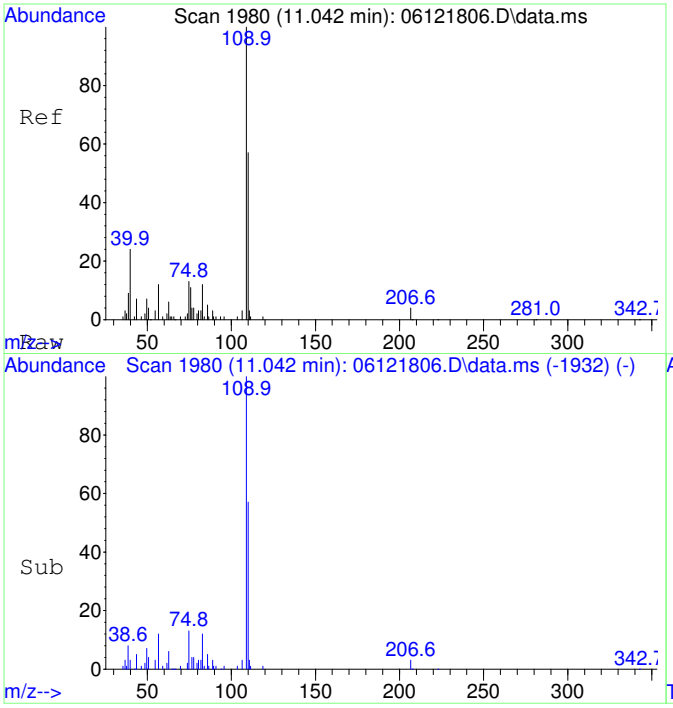


#24
Naphthalene
Concen: 1088.43 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:128 Resp: 40548

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.5

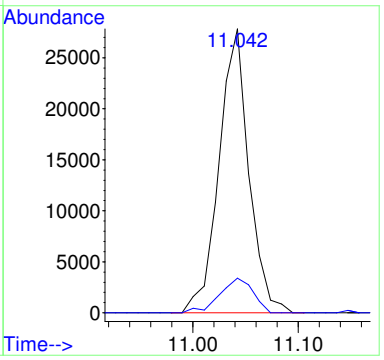


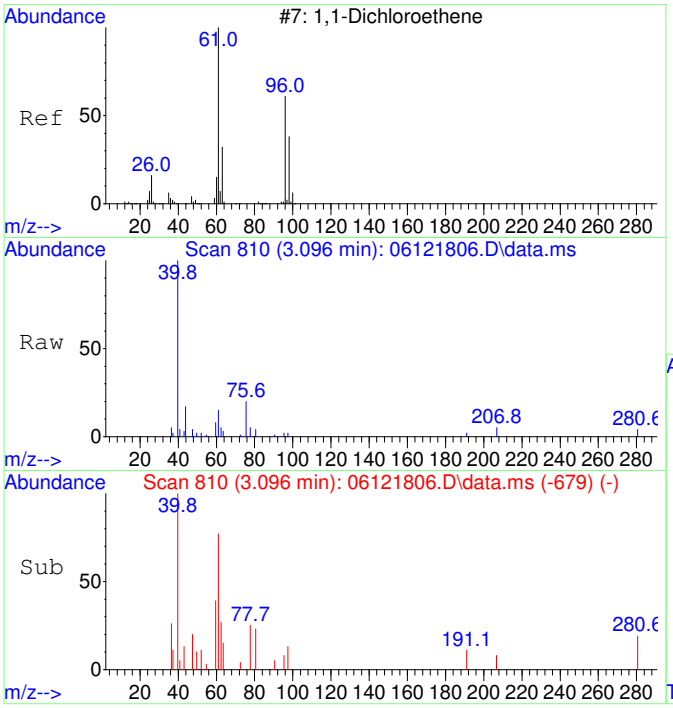


#25
2-Fluorotoluene SCAN
Concen: 5005.66 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:109 Resp: 54763

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	45.7

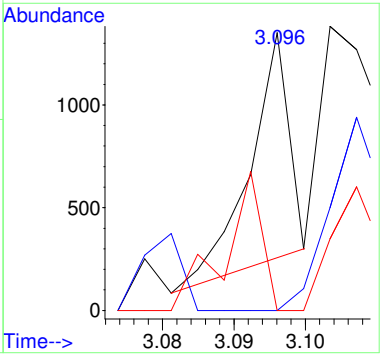


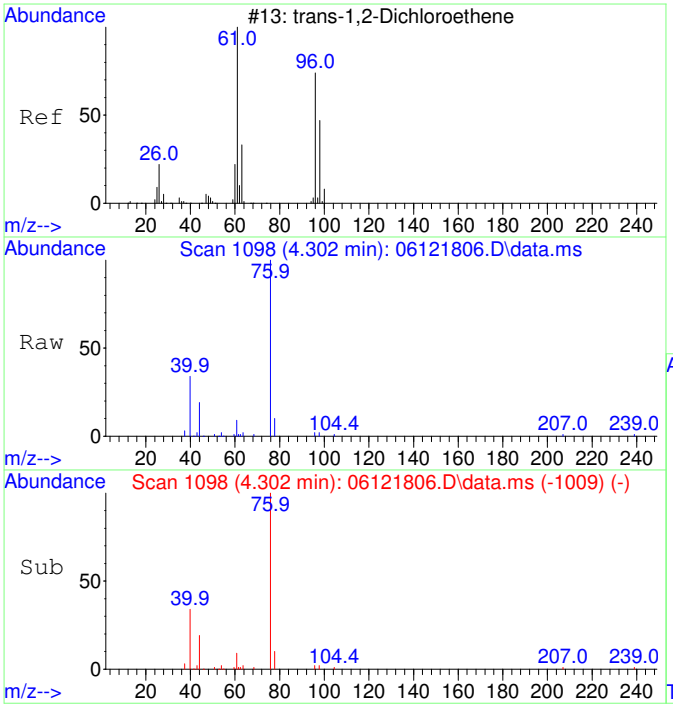


#26
1,1-Dichloroethene SCAN
Concen: 164.47 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.015 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 449

Ion	Ratio	Lower	Upper
61	100		
96	31.8	23.8	83.8
98	54.3	8.8	68.8

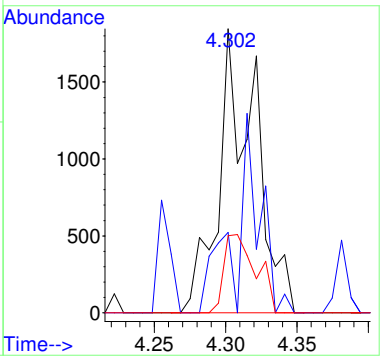


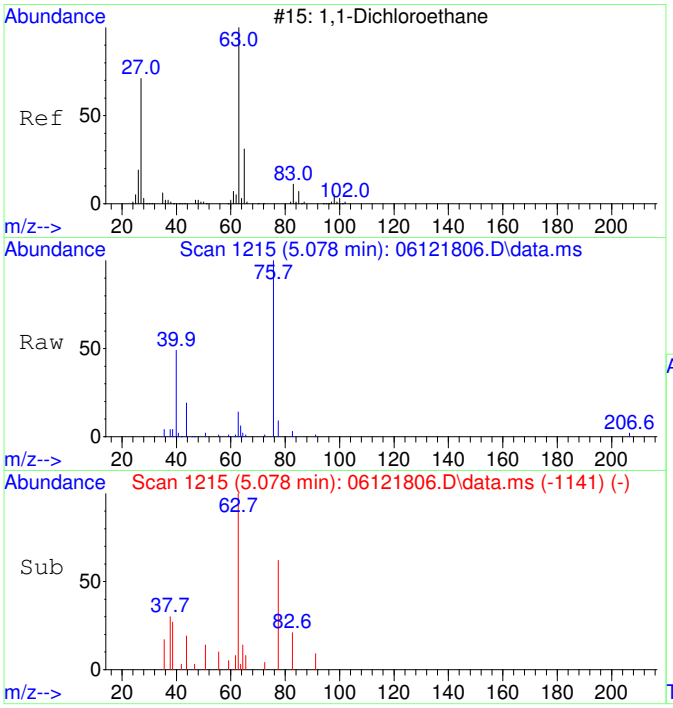


#27
trans-1,2-Dichloroethene SCAN
Concen: 1038.01 ug/L
RT: 4.302 min Scan# 1098
Delta R.T. -0.033 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3299

Ion	Ratio	Lower	Upper
61	100		
96	48.3	37.9	97.9
98	24.2	12.7	72.7

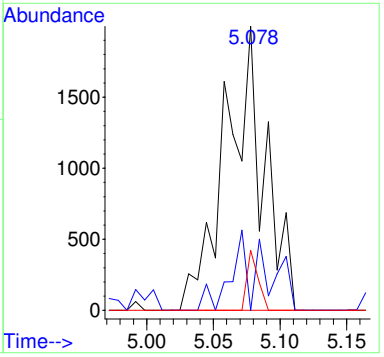


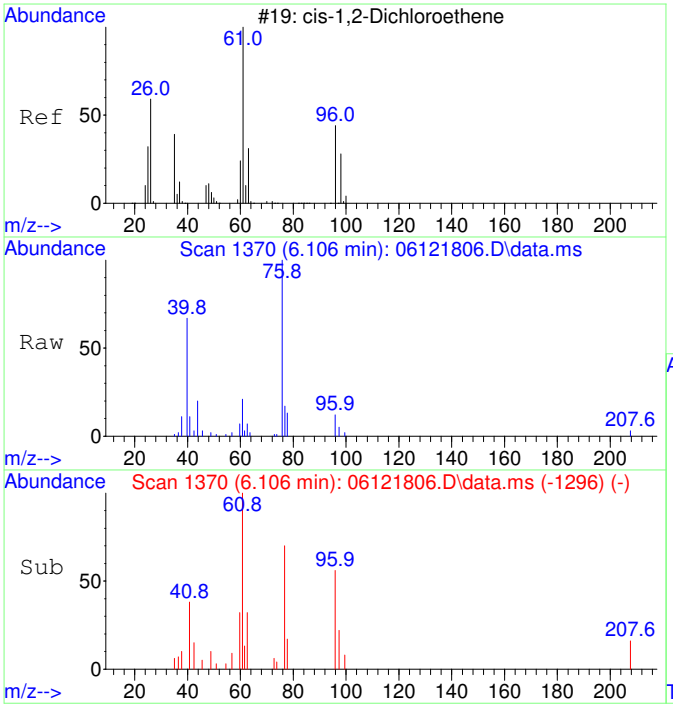


#28
1,1-Dichloroethane SCAN
Concen: 1005.39 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 63 Resp: 4065

Ion	Ratio	Lower	Upper
63	100		
65	11.2	7.5	67.5
83	6.0	0.0	34.3

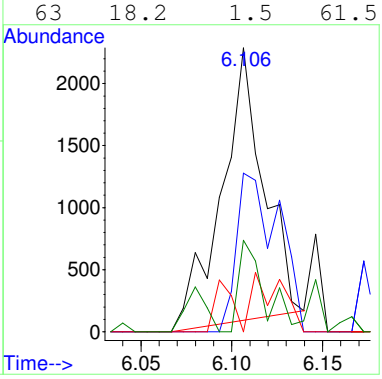


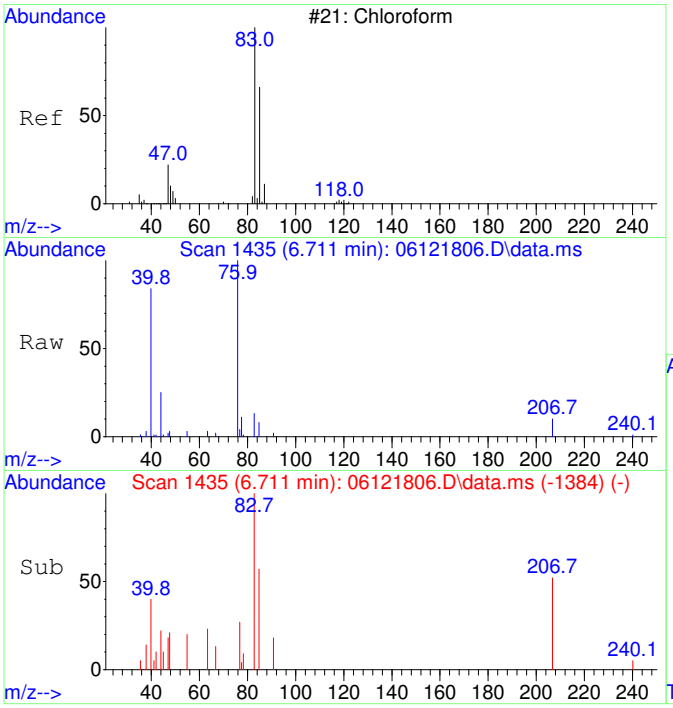


#29
cis-1,2-Dichloroethene SCAN
Concen: 1020.65 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3569

Ion	Ratio	Lower	Upper
61	100		
96	57.5	28.2	88.2
98	15.1	14.1	74.1
63	18.2	1.5	61.5

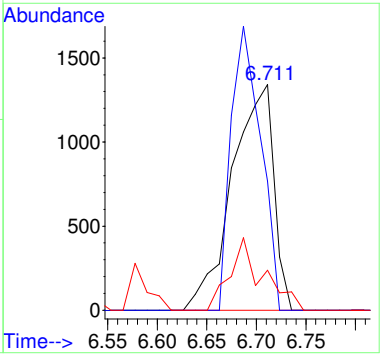


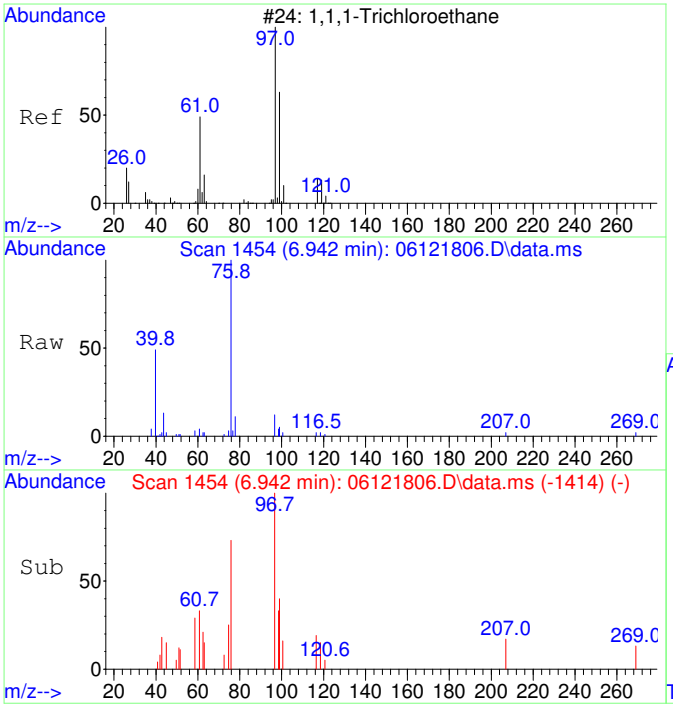


#30
Chloroform SCAN
Concen: 913.54 ug/L
RT: 6.711 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 3921

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

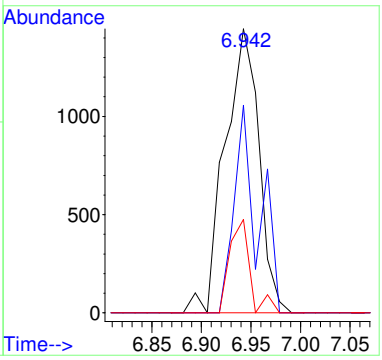


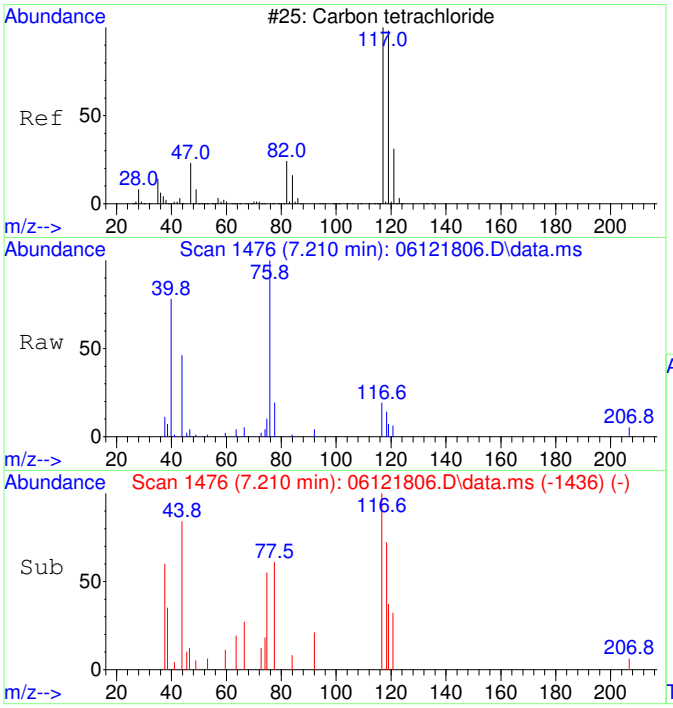


#31
1,1,1-Trichloroethane SCAN
Concen: 905.32 ug/L
RT: 6.942 min Scan# 1454
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 3459

Ion	Ratio	Lower	Upper
97	100		
99	51.2	27.9	87.9
61	19.7	15.1	75.1

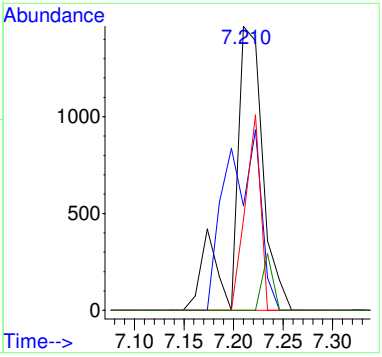


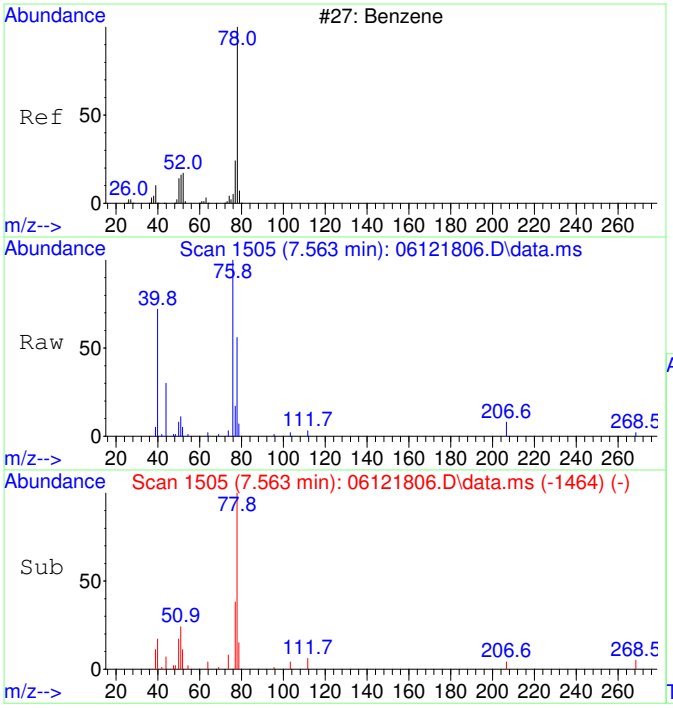


#32
Carbon tetrachloride SCAN
Concen: 783.60 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:117 Resp: 2950

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

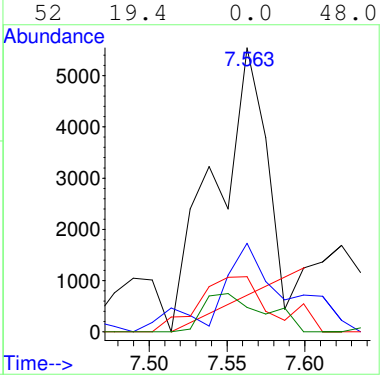


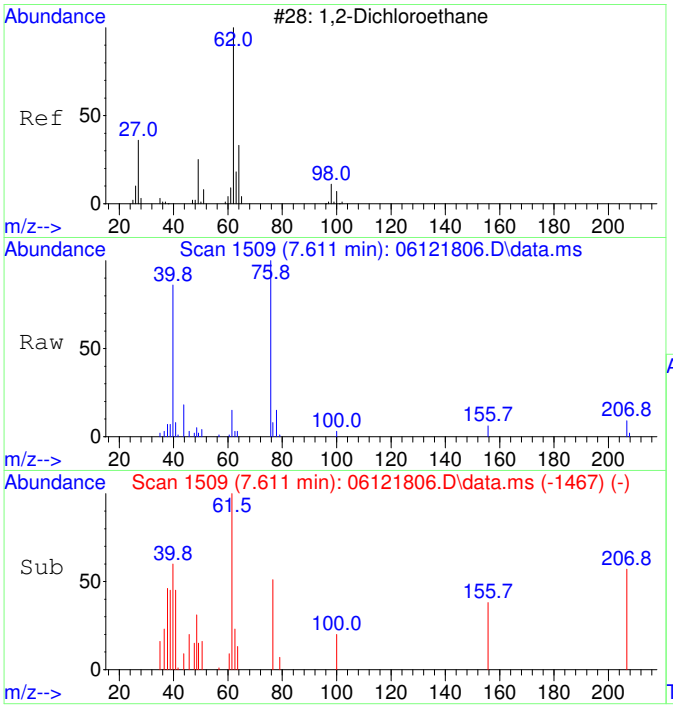


#33
Benzene SCAN
Concen: 923.58 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 78 Resp: 10523

Ion	Ratio	Lower	Upper
78	100		
77	49.6	3.0	63.0
51	33.2	0.0	56.4
52	19.4	0.0	48.0

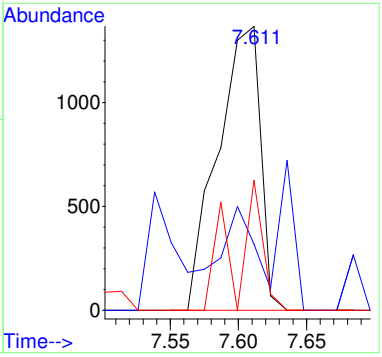


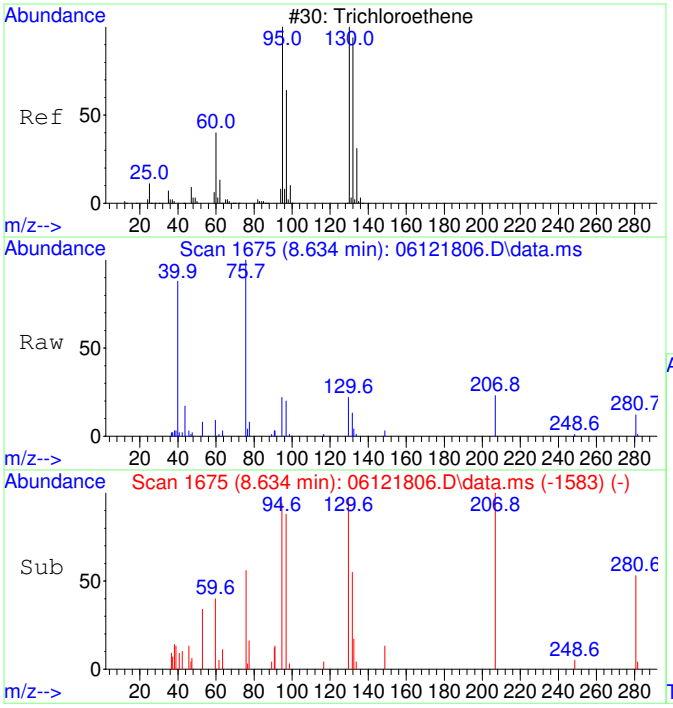


#34
1,2-Dichloroethane SCAN
Concen: 768.98 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 62 Resp: 2988

Ion	Ratio	Lower	Upper
62	100		
64	14.0	1.2	61.2
49	0.0	10.4	70.4#

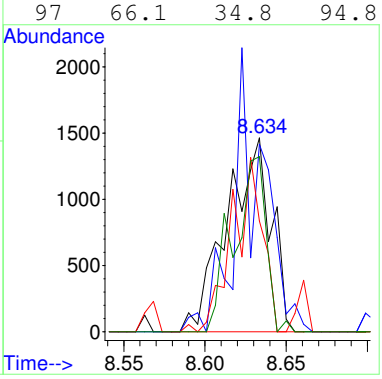


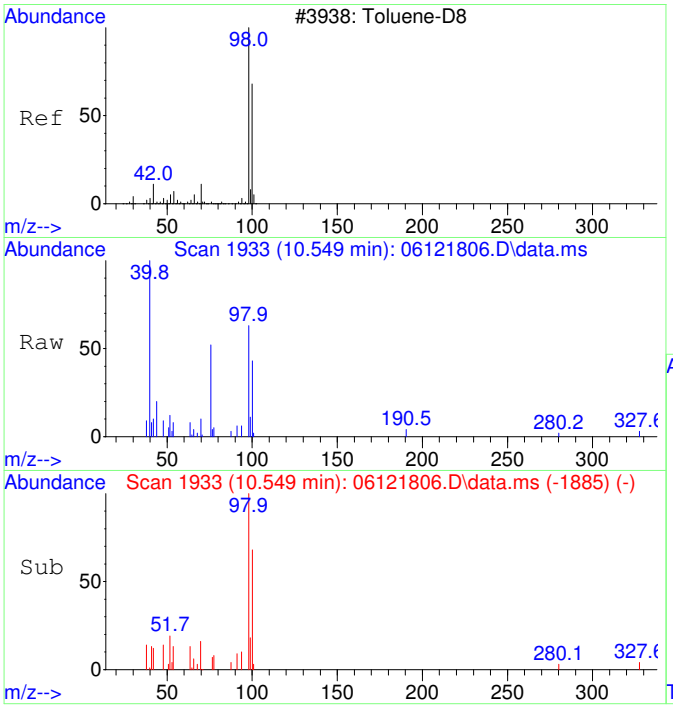


#35
Trichloroethene SCAN
Concen: 999.60 ug/L
RT: 8.634 min Scan# 1675
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:130 Resp: 2787

Ion	Ratio	Lower	Upper
130	100		
95	94.7	70.5	130.5
132	61.0	63.8	123.8#
97	66.1	34.8	94.8

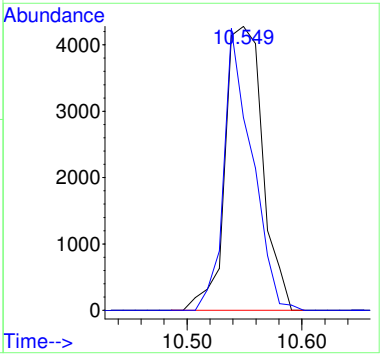


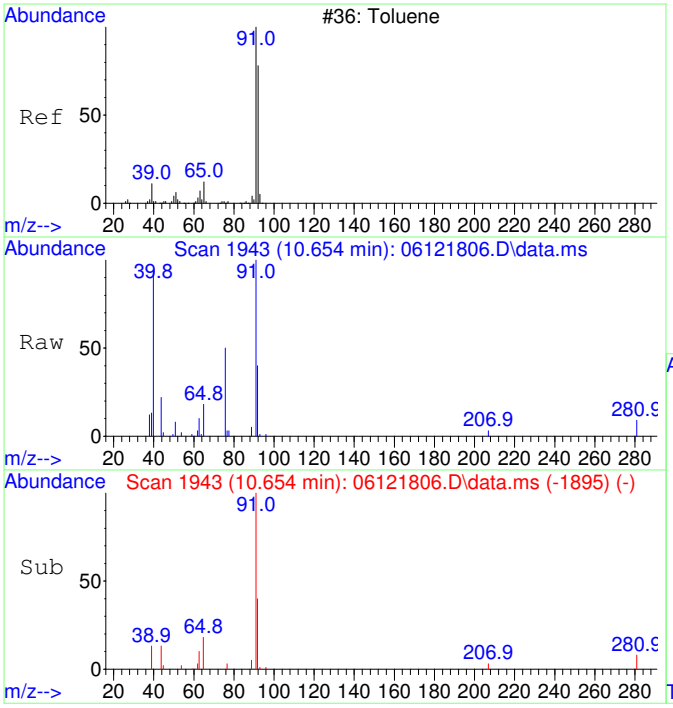


#36
Toluene-d8 SCAN
Concen: 982.82 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 98 Resp: 9720

Ion	Ratio	Lower	Upper
98	100		
100	74.5	39.5	99.5

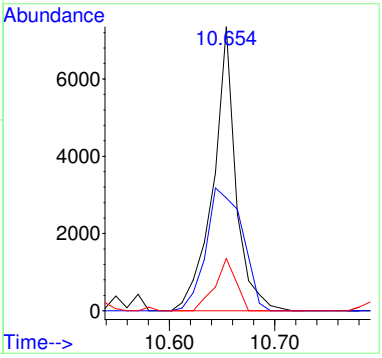


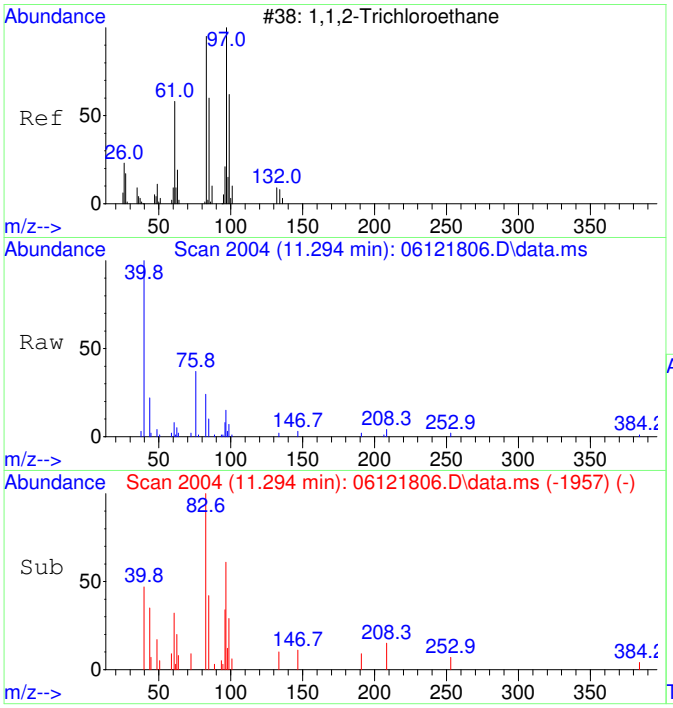


#37
Toluene SCAN
Concen: 876.73 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 11076

Ion	Ratio	Lower	Upper
91	100		
92	69.3	26.6	86.6
65	17.0	0.0	42.3

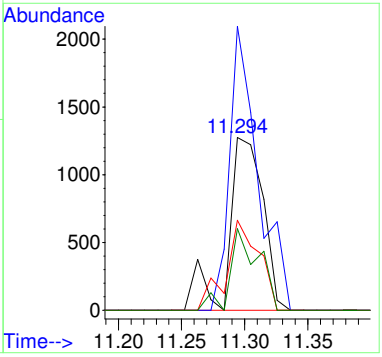


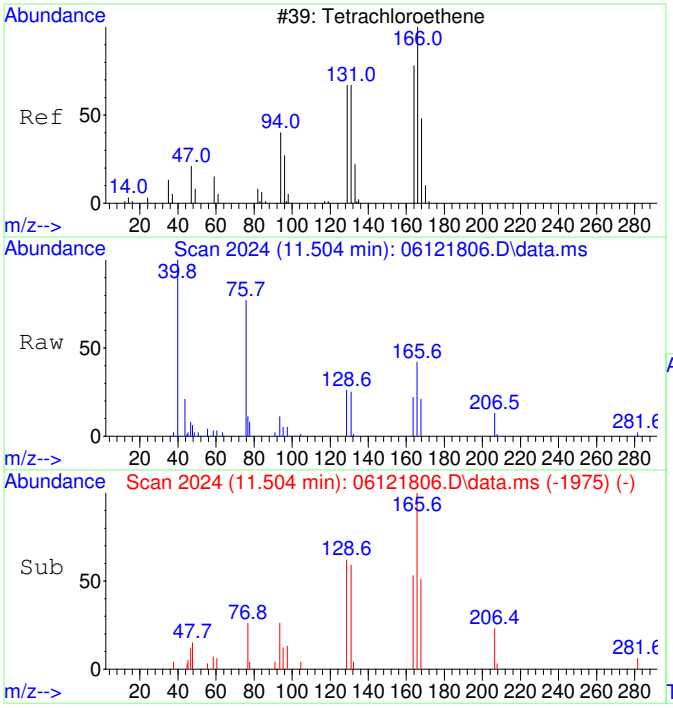


#38
1,1,2-Trichloroethane SCAN
Concen: 999.66 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 2420

Ion	Ratio	Lower	Upper
97	100		
83	135.1	63.6	123.6#
61	49.5	44.9	104.9
99	39.2	37.0	97.0

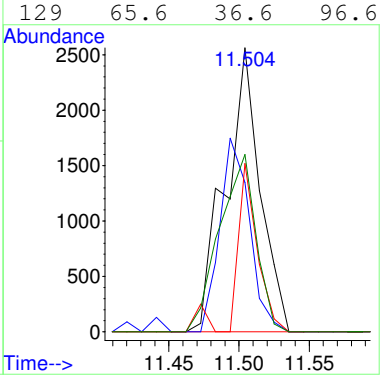


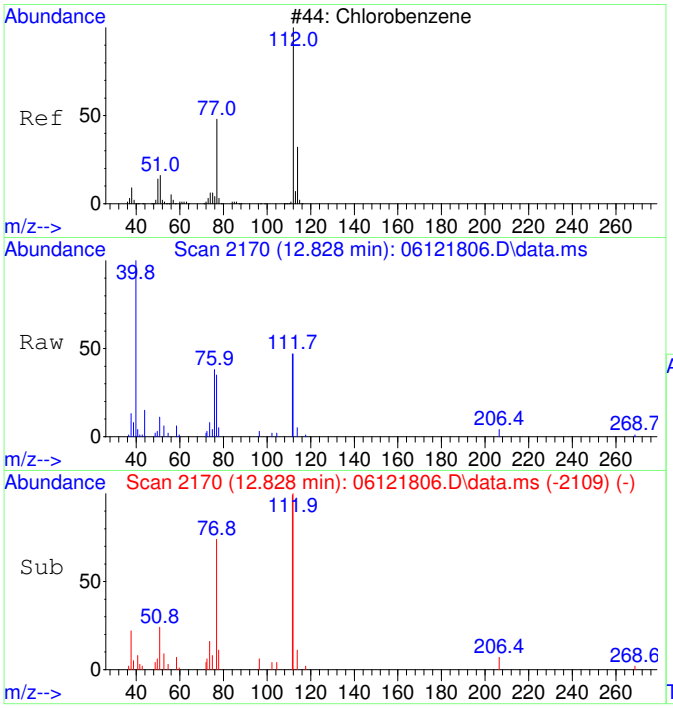


#39
Tetrachloroethene SCAN
Concen: 1592.94 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.011 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:166 Resp: 4416

Ion	Ratio	Lower	Upper
166	100		
164	58.6	43.3	103.3
131	35.6	35.6	95.6#
129	65.6	36.6	96.6

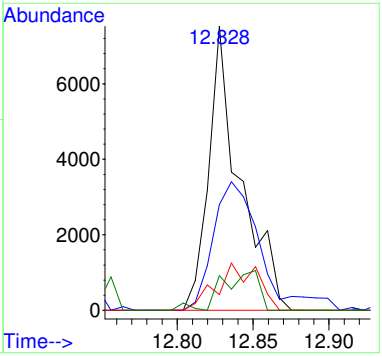


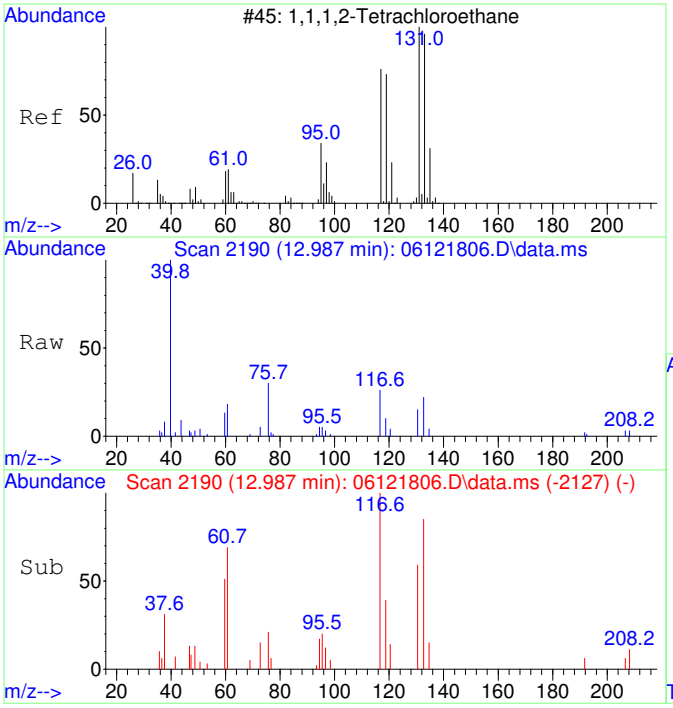


#40
Chlorobenzene SCAN
Concen: 1410.03 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.016 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:112 Resp: 10806

Ion	Ratio	Lower	Upper
112	100		
77	68.5	28.4	88.4
114	21.4	0.0	59.5
51	0.0	0.0	53.7

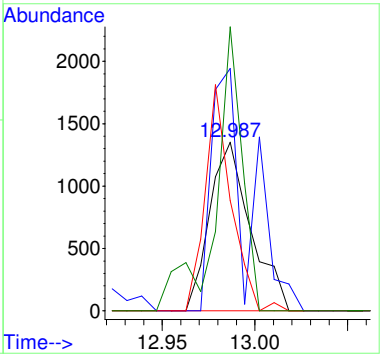


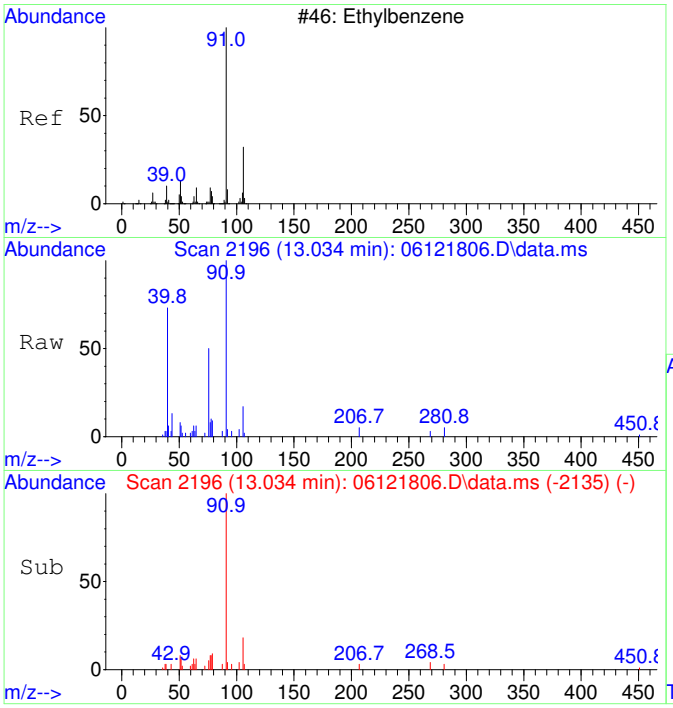


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 761.47 ug/L
RT: 12.987 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:131 Resp: 2083

Ion	Ratio	Lower	Upper
131	100		
133	128.9	56.7	116.7#
119	84.8	37.9	97.9
117	109.6	28.2	88.2#

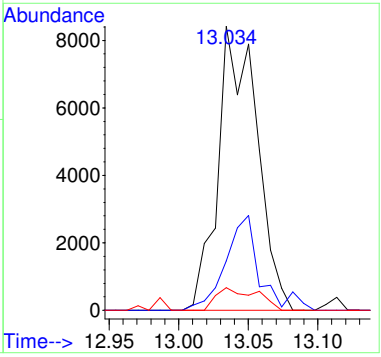


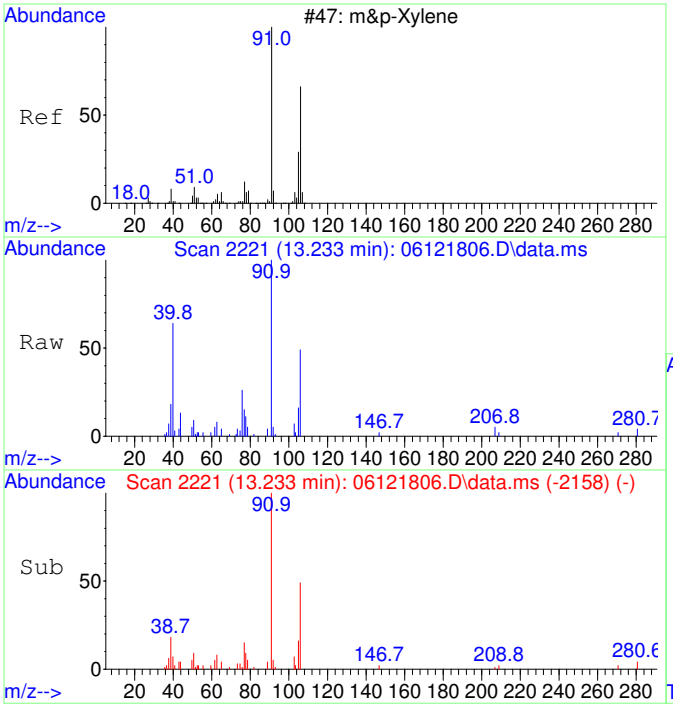


#42
Ethylbenzene SCAN
Concen: 1119.12 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.016 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 16434

Ion	Ratio	Lower	Upper
91	100		
106	29.3	3.2	63.2
51	8.3	0.0	40.1

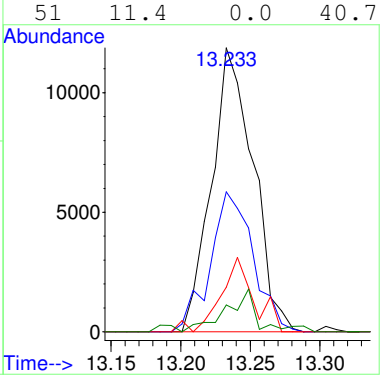


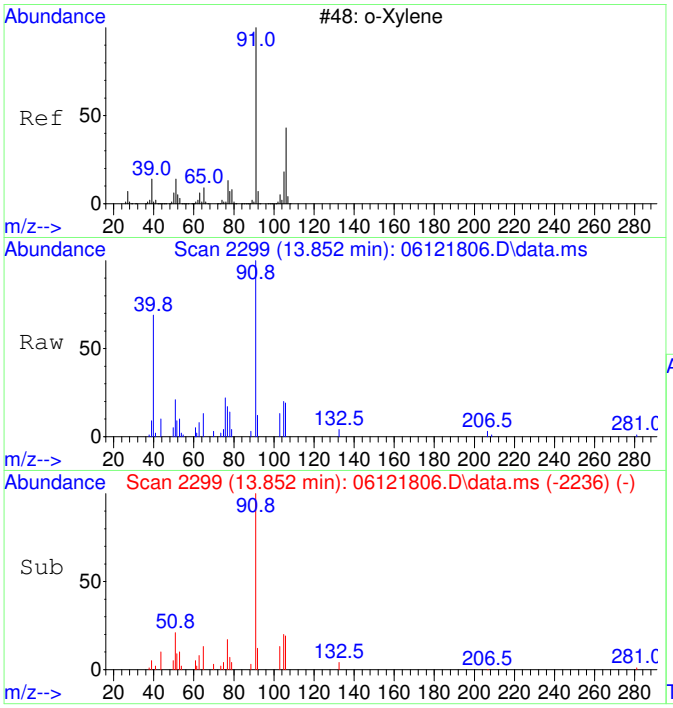


#43
m&p-Xylene SCAN
Concen: 1212.80 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 24721

Ion	Ratio	Lower	Upper
91	100		
106	50.9	20.1	80.1
105	21.0	0.0	51.1
51	11.4	0.0	40.7

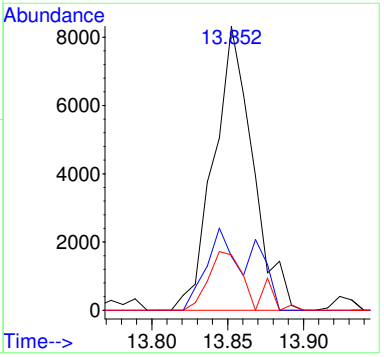


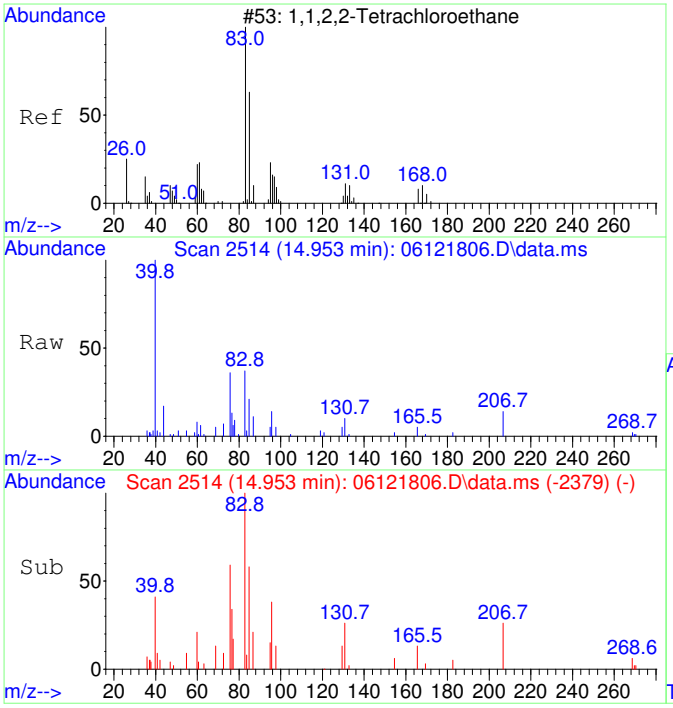


#44
o-Xylene SCAN
Concen: 1285.26 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 14911

Ion	Ratio	Lower	Upper
91	100		
106	33.2	21.3	81.3
105	20.9	0.0	55.2

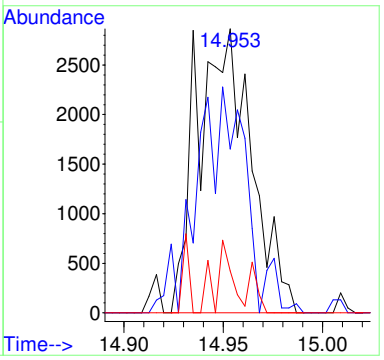


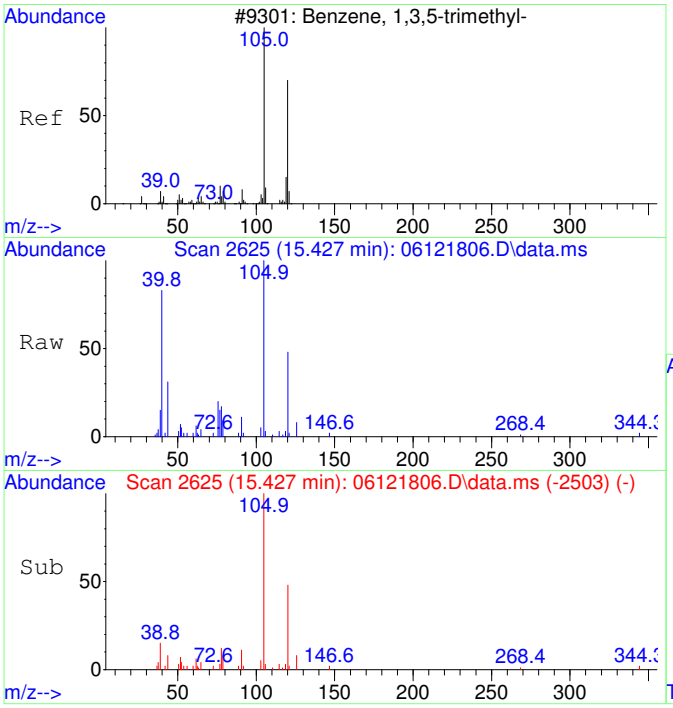


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 988.43 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 5435

Ion	Ratio	Lower	Upper
83	100		
85	16.5	31.6	91.6#
95	5.2	0.0	49.0

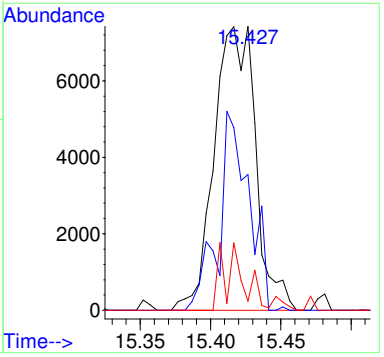


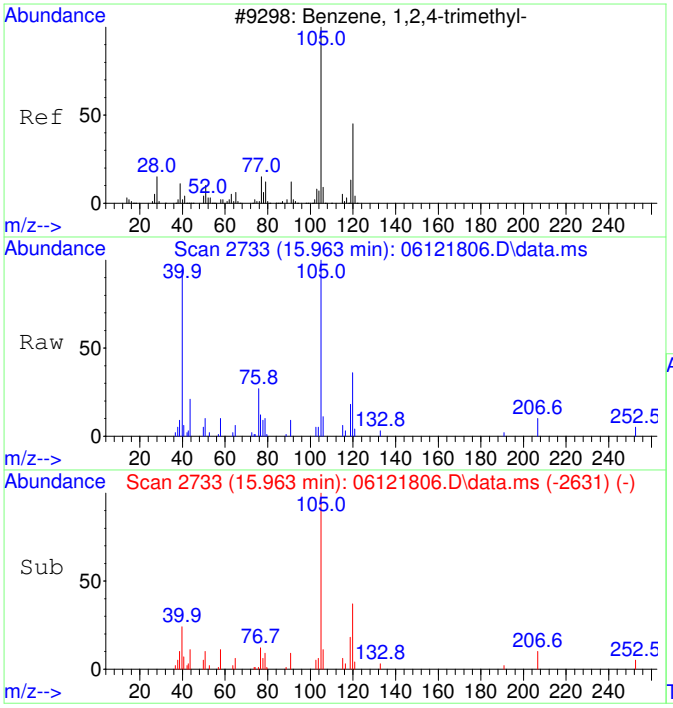


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1326.26 ug/L
RT: 15.427 min Scan# 2625
Delta R.T. 0.014 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 15256

Ion	Ratio	Lower	Upper
105	100		
120	51.3	16.8	76.8
119	3.5	0.0	41.5

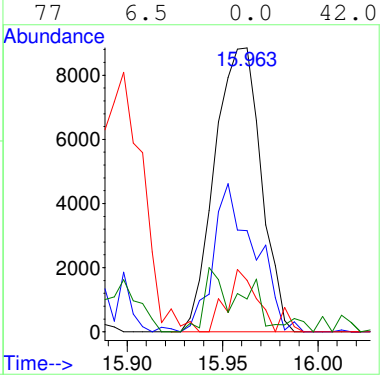


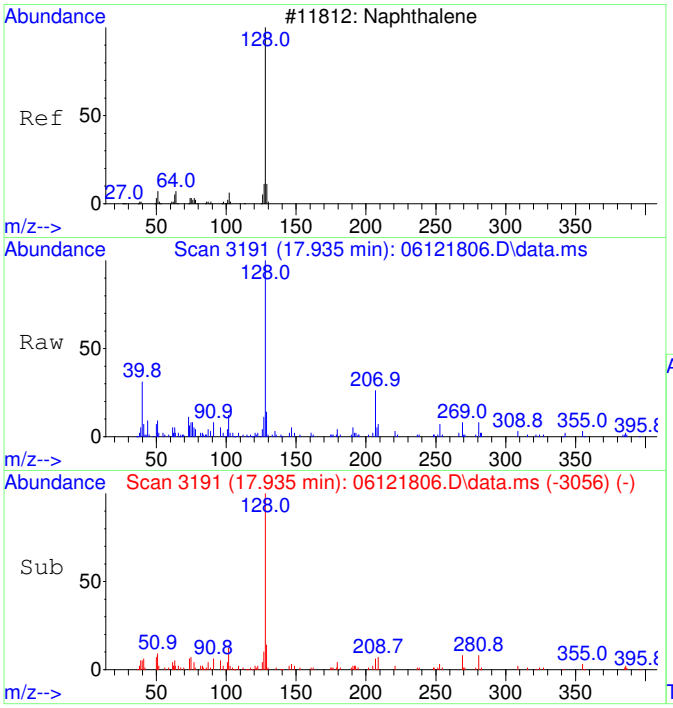


#47
1,2,4-Trimethylbenzene SCAN
Concen: 1271.38 ug/L
RT: 15.963 min Scan# 2733
Delta R.T. 0.009 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 14988

Ion	Ratio	Lower	Upper
105	100		
120	46.6	15.4	75.4
119	13.7	0.0	41.7
77	6.5	0.0	42.0

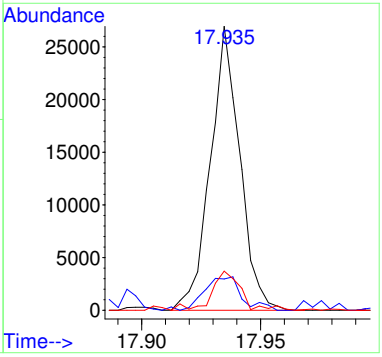




#48
Naphthalene SCAN
Concen: 1383.04 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. -0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:128 Resp: 23263

Ion	Ratio	Lower	Upper
128	100		
127	15.0	0.0	43.9
129	12.1	0.0	40.5



Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121806.D
Acq On : 12 Jun 2018 14:55
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL4
Misc : 1823101 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 17:03:18 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration

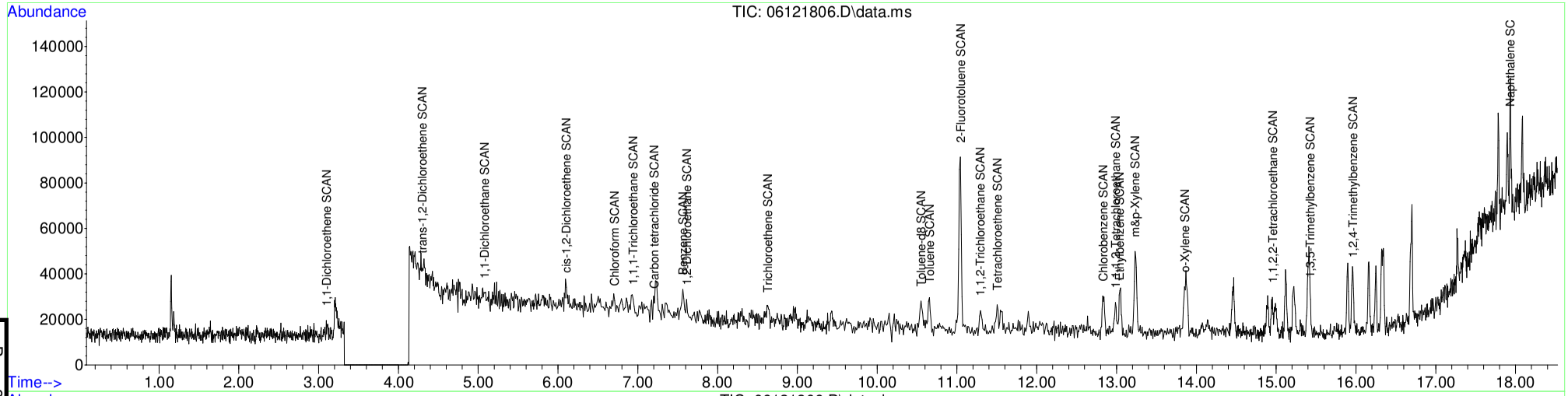
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	93886	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	15581	1021.71 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 20.43%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	4062	1011.26 ug/L	96
3] trans-1,2-Dichloroethene	4.310	61	3894	927.55 ug/L	100
4] 1,1-Dichloroethane	5.073	63	4812	920.91 ug/L	97
5] cis-1,2-Dichloroethene	6.108	61	4717	915.08 ug/L	99
6] Chloroform	6.688	83	5164	930.38 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	5246	960.24 ug/L	99
8] Carbon tetrachloride	7.211	117	4928	952.27 ug/L	99
9] Benzene	7.552	78	14597	968.33 ug/L	97
10] 1,2-Dichloroethane	7.588	62	4735	974.64 ug/L	95
11] Trichloroethene	8.624	130	4093	987.92 ug/L	99
13] Toluene	10.645	91	19927	974.57 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	4175	987.89 ug/L	98
15] Tetrachloroethene	11.495	166	5891	1022.60 ug/L	100
16] Chlorobenzene	12.837	112	15016	1028.95 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.988	131	5102	1030.18 ug/L	97
18] Ethylbenzene	13.043	91	25697	1047.26 ug/L	99
19] m&p-Xylene	13.234	91	40266	2126.18 ug/L	99
20] o-Xylene	13.846	91	21104	1052.20 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.951	83	9080	1051.19 ug/L	100
22] 1,3,5-Trimethylbenzene	15.418	105	23961	1055.83 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	24317	1071.21 ug/L	100
24] Naphthalene	17.936	128	40548	1088.43 ug/L	99
25) 2-Fluorotoluene SCAN	11.042	109	54763	5005.66 ug/L	95
26) 1,1-Dichloroethene SCAN	3.096	61	449	164.47 ug/L	71
27) trans-1,2-Dichloroethe...	4.302	61	3299	1038.01 ug/L	74
28) 1,1-Dichloroethane SCAN	5.078	63	4065	1005.39 ug/L	60
29) cis-1,2-Dichloroethene...	6.106	61	3569	1020.65 ug/L	79
30) Chloroform SCAN	6.711	83	3921	913.54 ug/L #	28
31) 1,1,1-Trichloroethane ...	6.942	97	3459	905.32 ug/L	78
32) Carbon tetrachloride SCAN	7.210	117	2950	783.60 ug/L #	13
33) Benzene SCAN	7.563	78	10523	923.58 ug/L	82
34) 1,2-Dichloroethane SCAN	7.611	62	2988	768.98 ug/L #	50
35) Trichloroethene SCAN	8.634	130	2787	999.60 ug/L #	85
36) Toluene-d8 SCAN	10.549	98	9720	982.82 ug/L	94
37) Toluene SCAN	10.654	91	11076	876.73 ug/L	84
38) 1,1,2-Trichloroethane ...	11.294	97	2420	999.66 ug/L #	63
39) Tetrachloroethene SCAN	11.504	166	4416	1592.94 ug/L #	81
40) Chlorobenzene SCAN	12.828	112	10806	1410.03 ug/L #	79
41) 1,1,1,2-Tetrachloroeth...	12.987	131	2083	761.47 ug/L #	56
42) Ethylbenzene SCAN	13.034	91	16434	1119.12 ug/L	94
43) m&p-Xylene SCAN	13.233	91	24721	1212.80 ug/L	99
44) o-Xylene SCAN	13.852	91	14911	1285.26 ug/L	80
45) 1,1,2,2-Tetrachloroeth...	14.953	83	5435	988.43 ug/L #	48
46) 1,3,5-Trimethylbenzene...	15.427	105	15256	1326.26 ug/L	90
47) 1,2,4-Trimethylbenzene...	15.963	105	14988	1271.38 ug/L	95
48) Naphthalene SCAN	17.935	128	23263	1383.04 ug/L	97

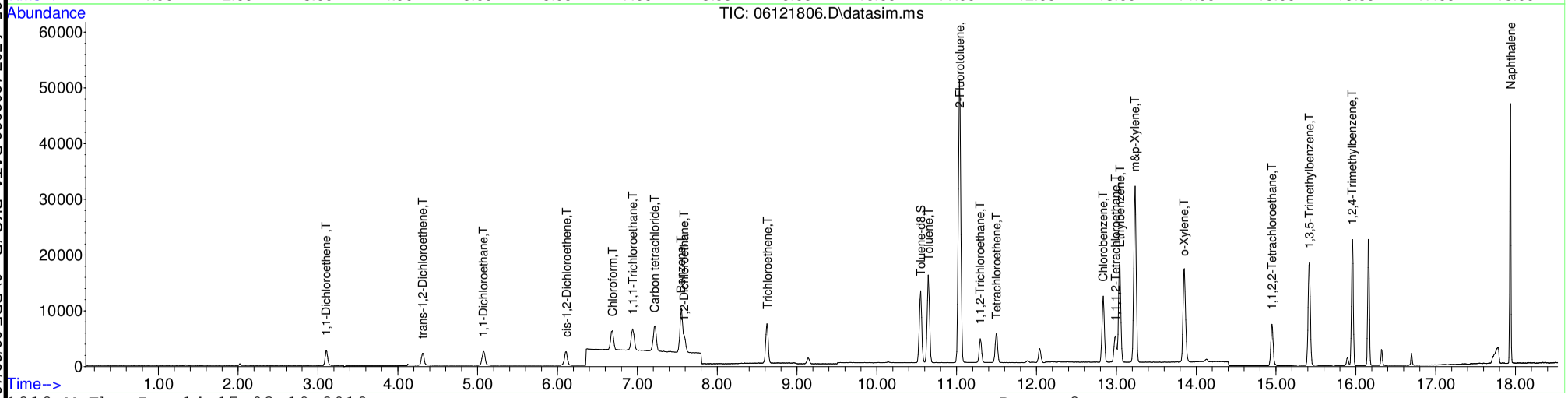
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121806.D
Acq On : 12 Jun 2018 14:55
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL4
Misc : 1823101 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 17:03:18 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration





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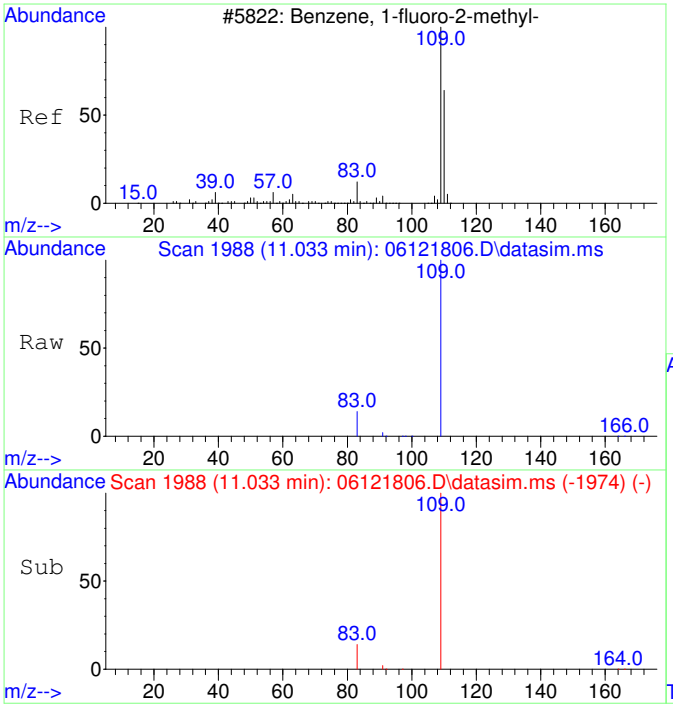
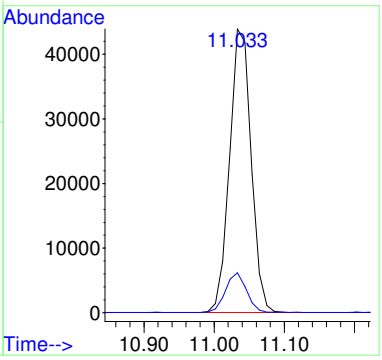
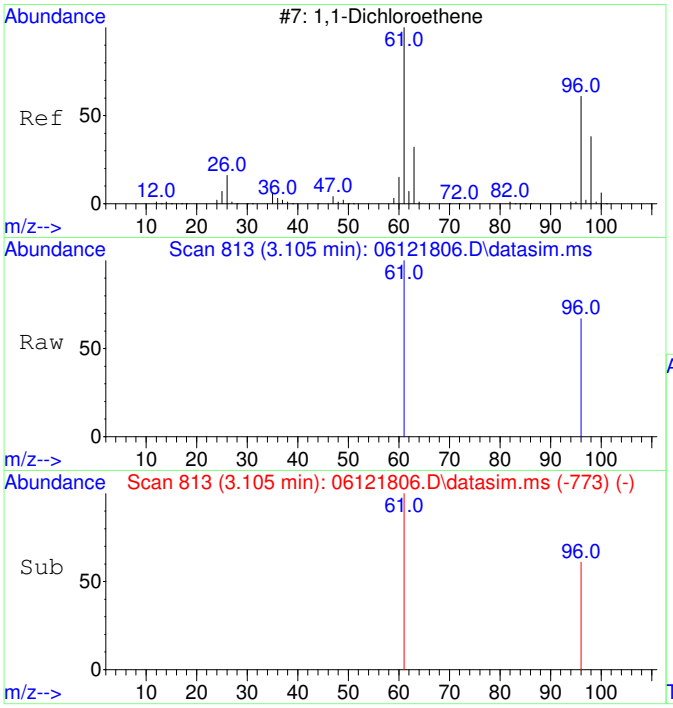


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:109 Resp: 93886

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.7

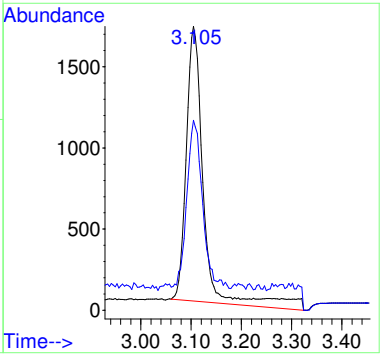




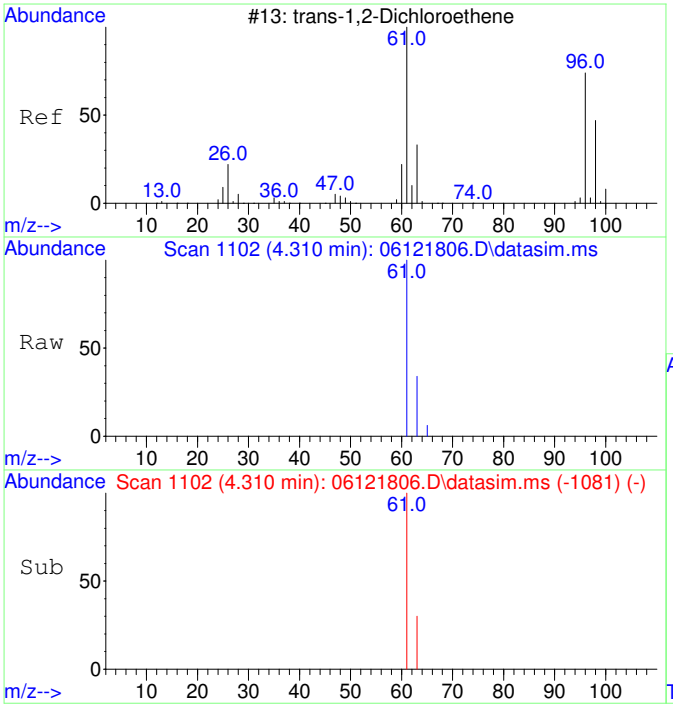
#2
1,1-Dichloroethene
Concen: 1011.26 ug/L
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 4062

Ion	Ratio	Lower	Upper
61	100		
96	61.4	28.7	88.7



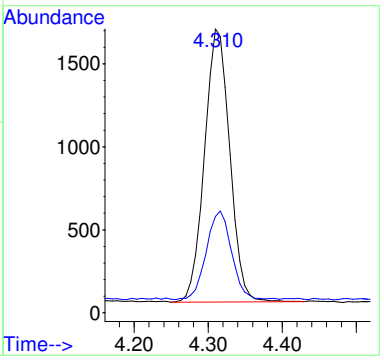
Before MI:
IMPROPER
BASELINE

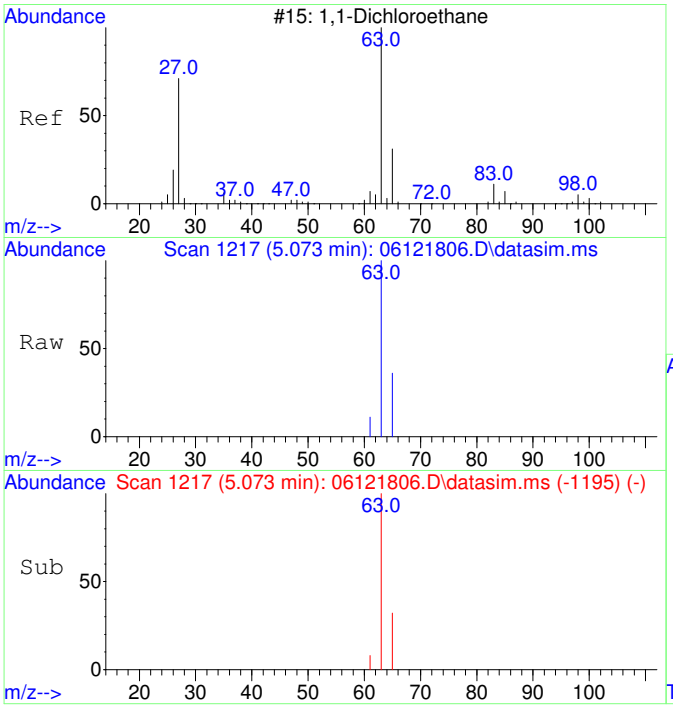


#3
trans-1,2-Dichloroethene
Concen: 927.55 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3894

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.0	62.0

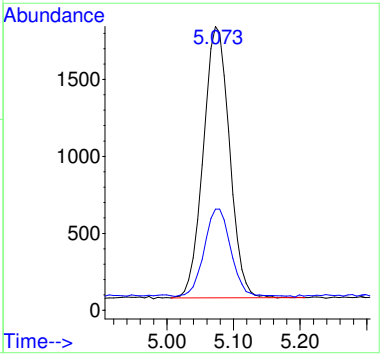


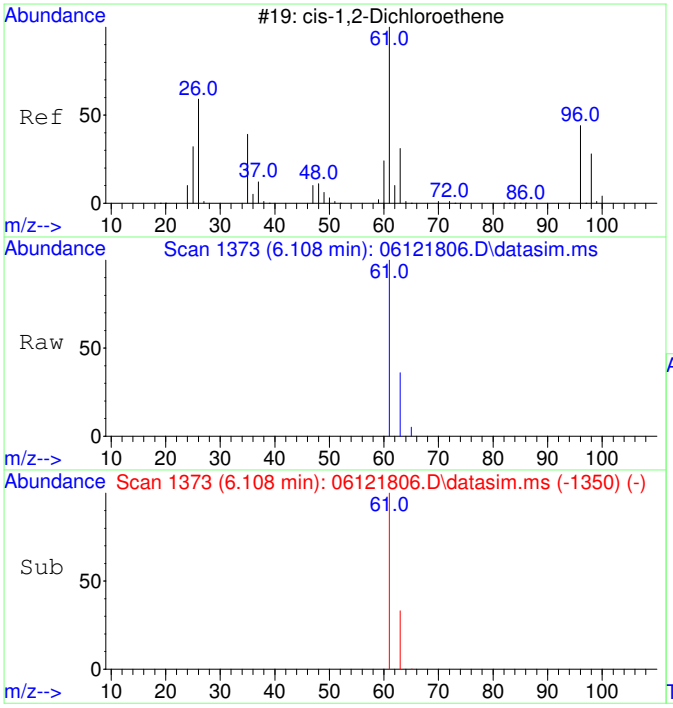


#4
1,1-Dichloroethane
Concen: 920.91 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 63 Resp: 4812

Ion	Ratio	Lower	Upper
63	100		
65	33.2	1.5	61.5

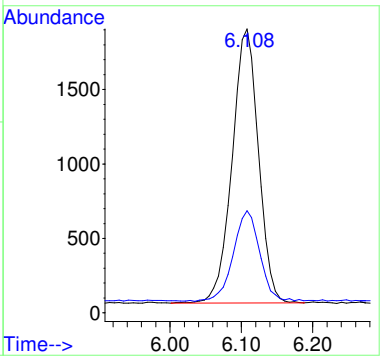


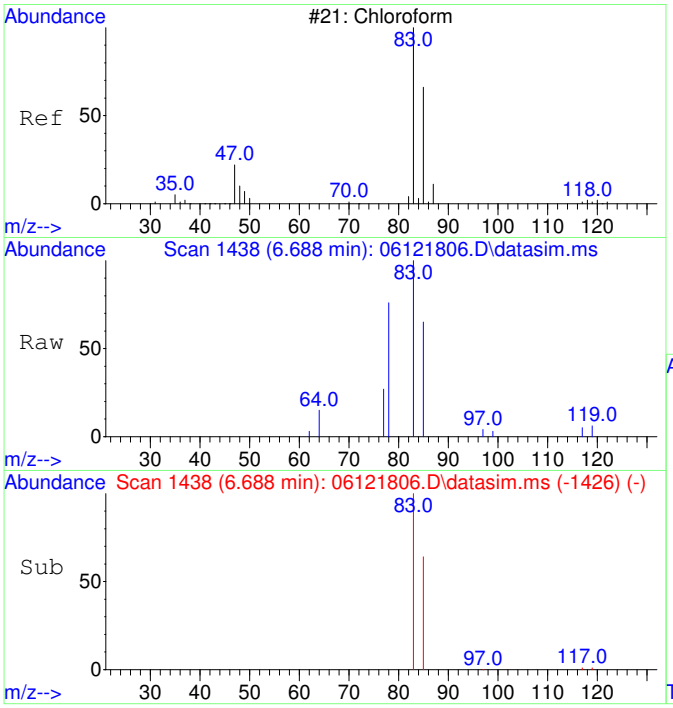


#5
cis-1,2-Dichloroethene
Concen: 915.08 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 4717

Ion	Ratio	Lower	Upper
61	100		
63	32.7	2.2	62.2

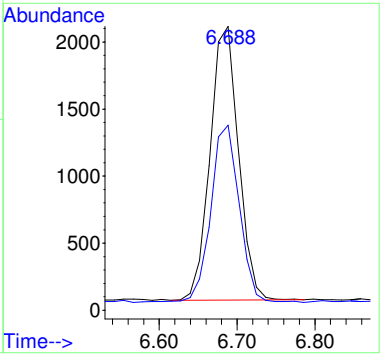


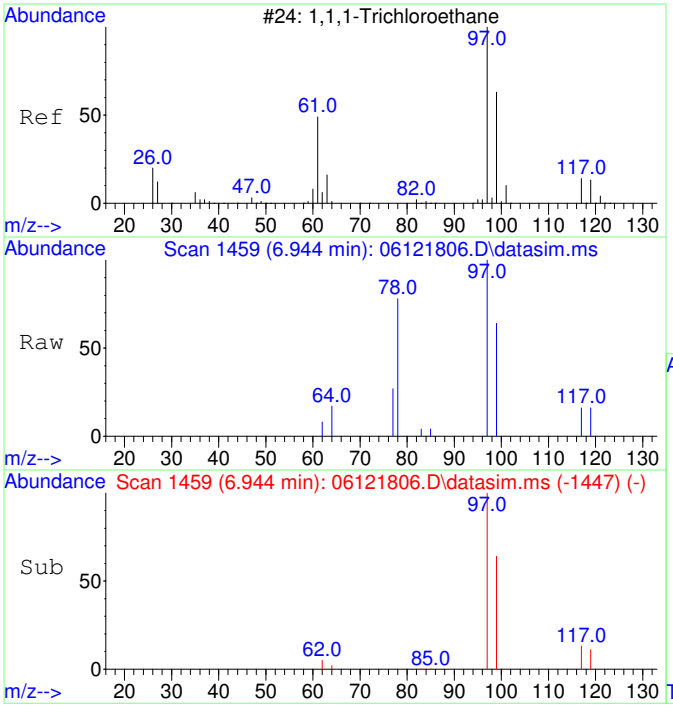


#6
Chloroform
Concen: 930.38 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 5164

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.8	94.8

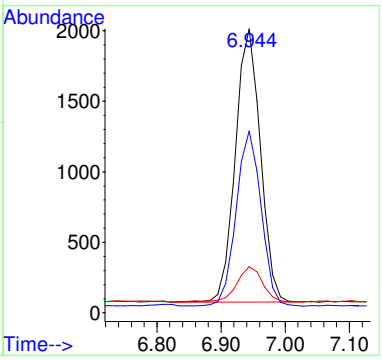


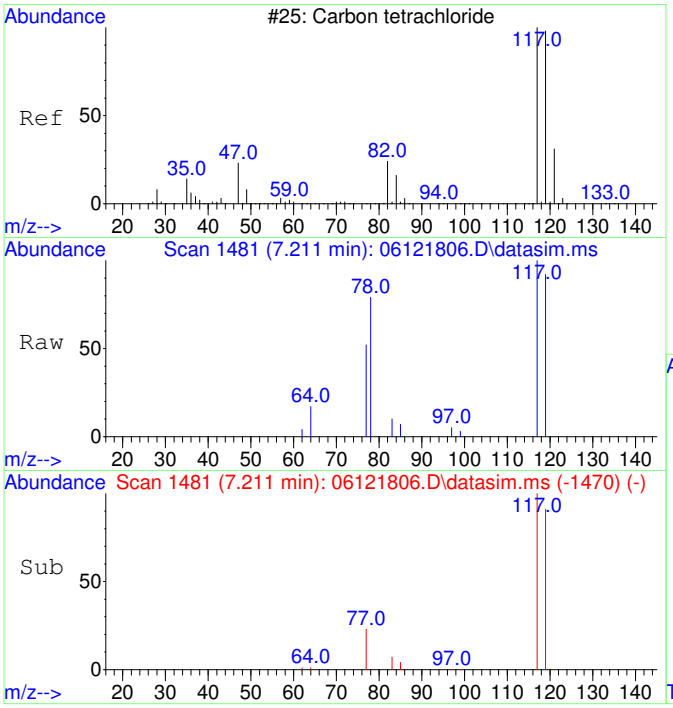


#7
1,1,1-Trichloroethane
Concen: 960.24 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 5246

Ion	Ratio	Lower	Upper
97	100		
99	63.9	34.6	94.6
117	13.4	0.0	42.9

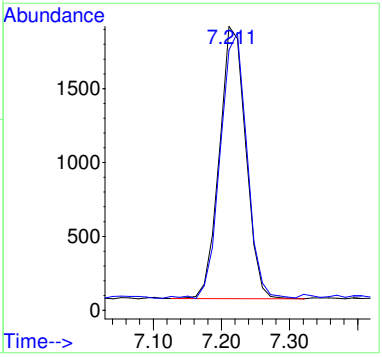


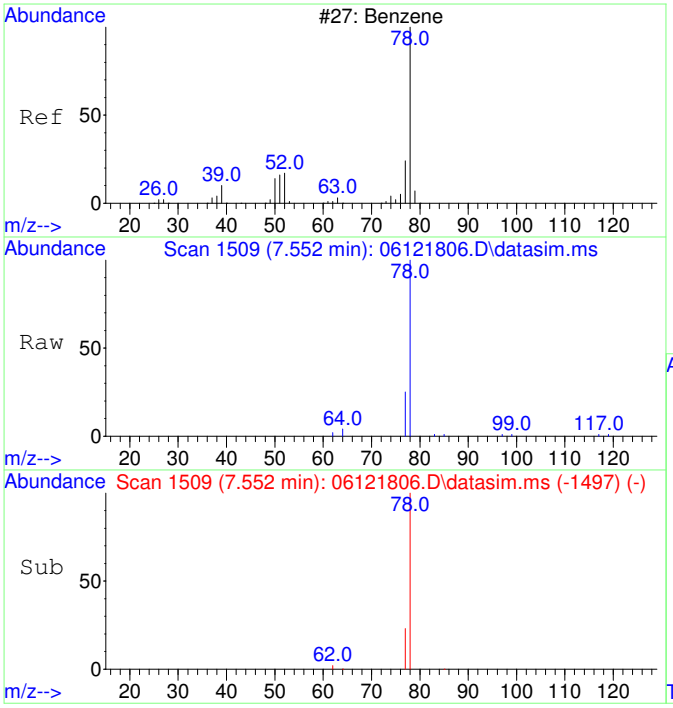


#8
Carbon tetrachloride
Concen: 952.27 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:117 Resp: 4928

Ion	Ratio	Lower	Upper
117	100		
119	97.0	65.9	125.9

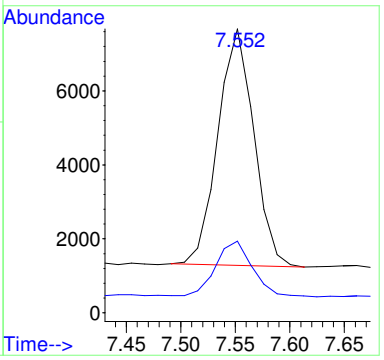


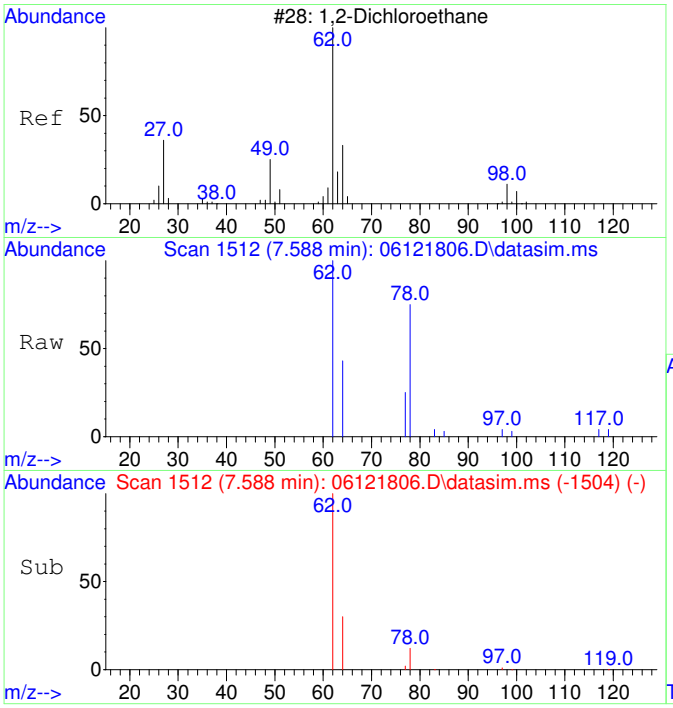


#9
Benzene
Concen: 968.33 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 78 Resp: 14597

Ion	Ratio	Lower	Upper
78	100		
77	24.6	0.0	53.0

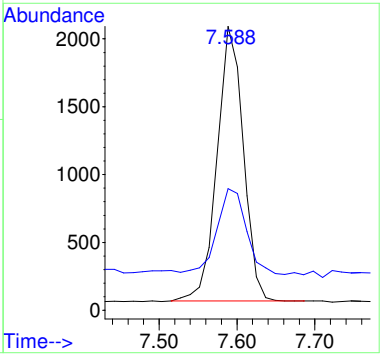


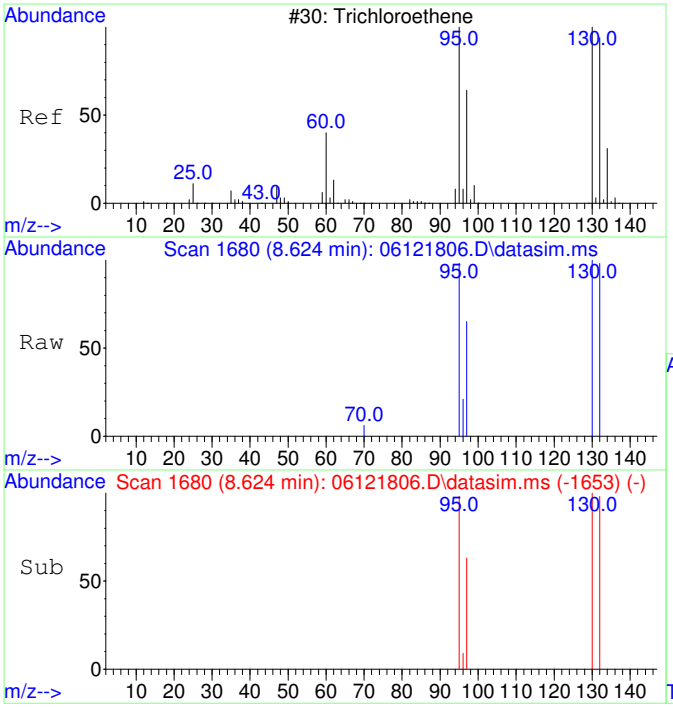


#10
1,2-Dichloroethane
Concen: 974.64 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 62 Resp: 4735

Ion	Ratio	Lower	Upper
62	100		
64	35.0	2.3	62.3

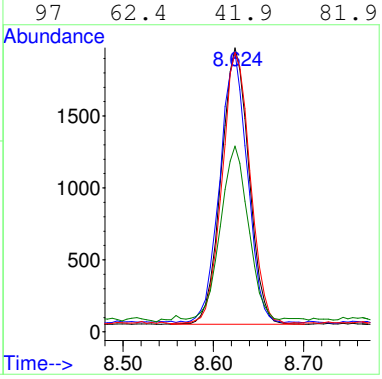


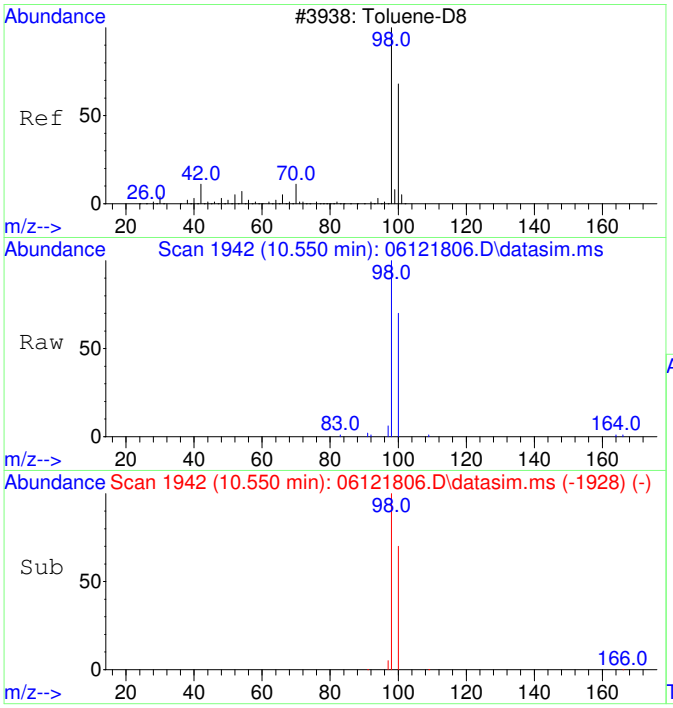


#11
Trichloroethene
Concen: 987.92 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:130 Resp: 4093

Ion	Ratio	Lower	Upper
130	100		
95	96.7	66.0	126.0
132	99.1	78.8	118.8
97	62.4	41.9	81.9

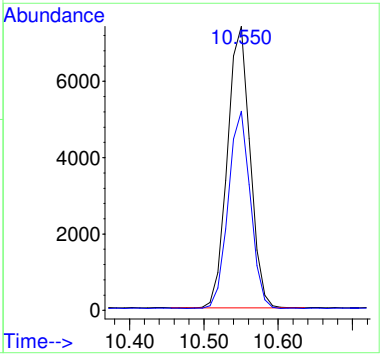


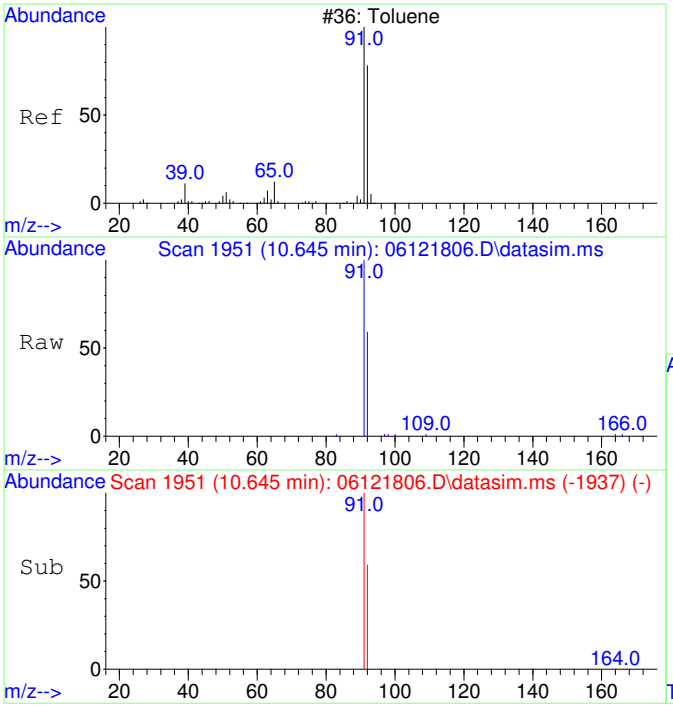


#12
Toluene-d8
Concen: 1021.71 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 98 Resp: 15581

Ion	Ratio	Lower	Upper
98	100		
100	68.3	38.7	98.7

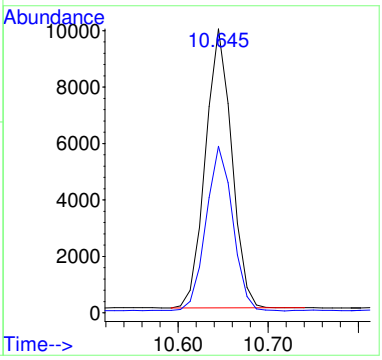


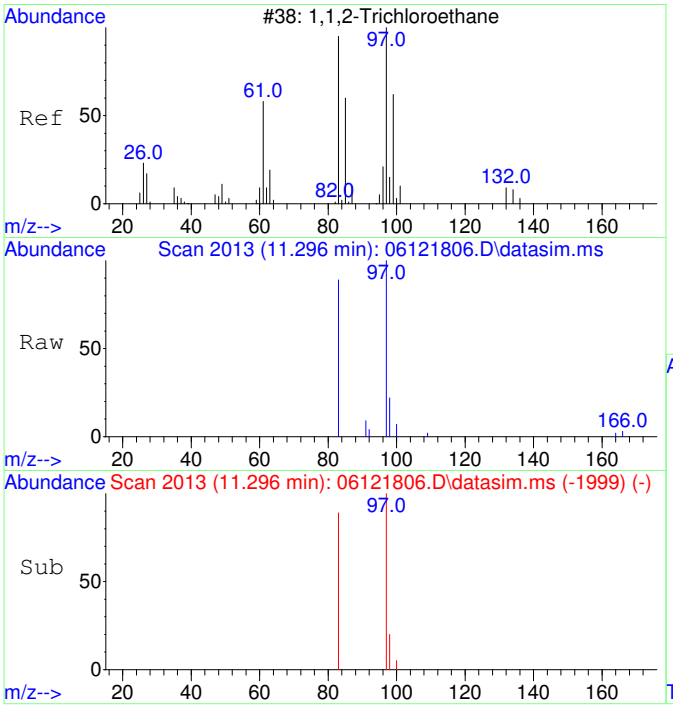


#13
Toluene
Concen: 974.57 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 19927

Ion	Ratio	Lower	Upper
91	100		
92	59.8	30.0	90.0

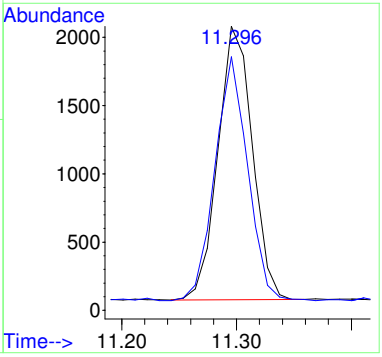


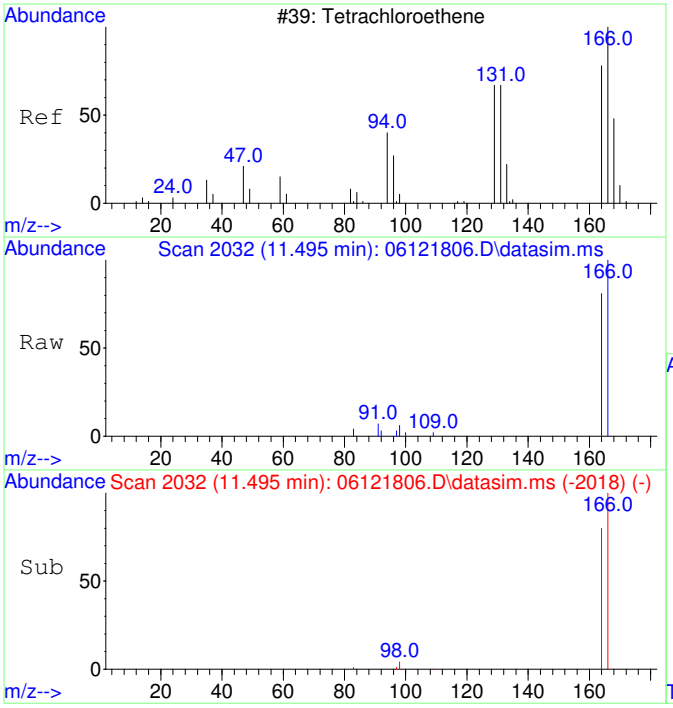


#14
1,1,2-Trichloroethane
Concen: 987.89 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 4175

Ion	Ratio	Lower	Upper
97	100		
83	84.8	53.4	113.4

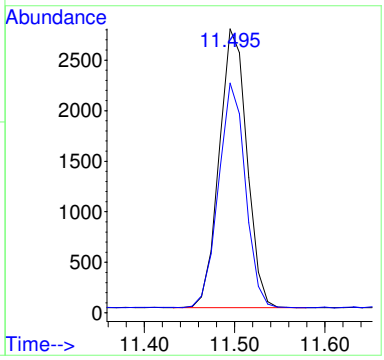


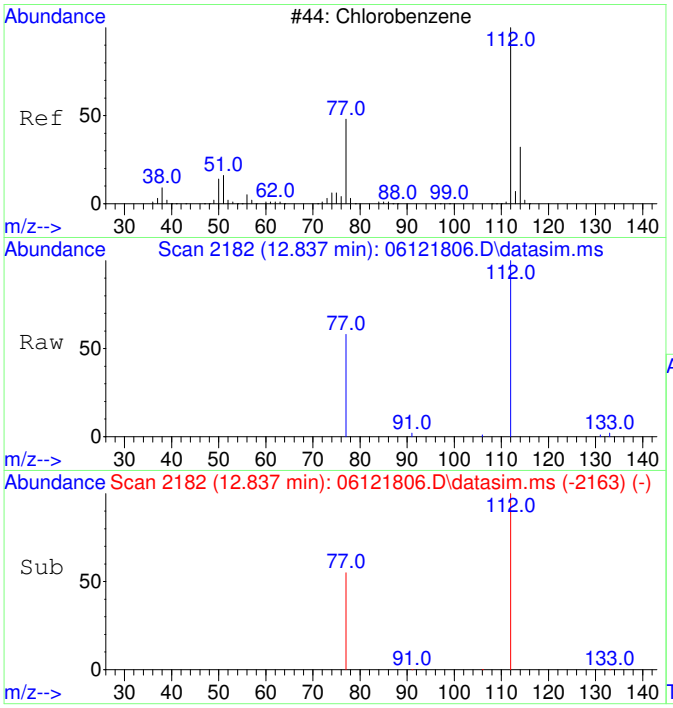


#15
Tetrachloroethene
Concen: 1022.60 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:166 Resp: 5891

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

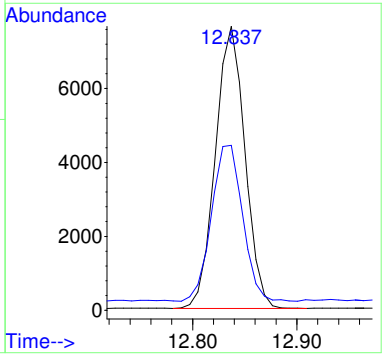


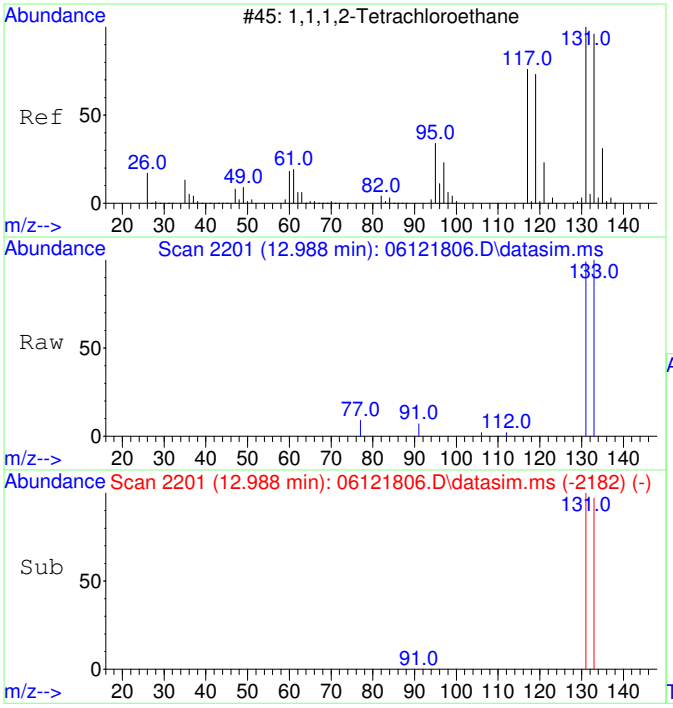


#16
Chlorobenzene
Concen: 1028.95 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:112 Resp: 15016

Ion	Ratio	Lower	Upper
112	100		
77	57.9	28.1	88.1

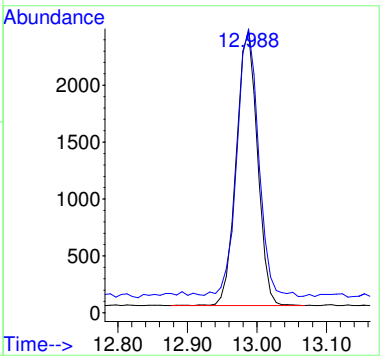


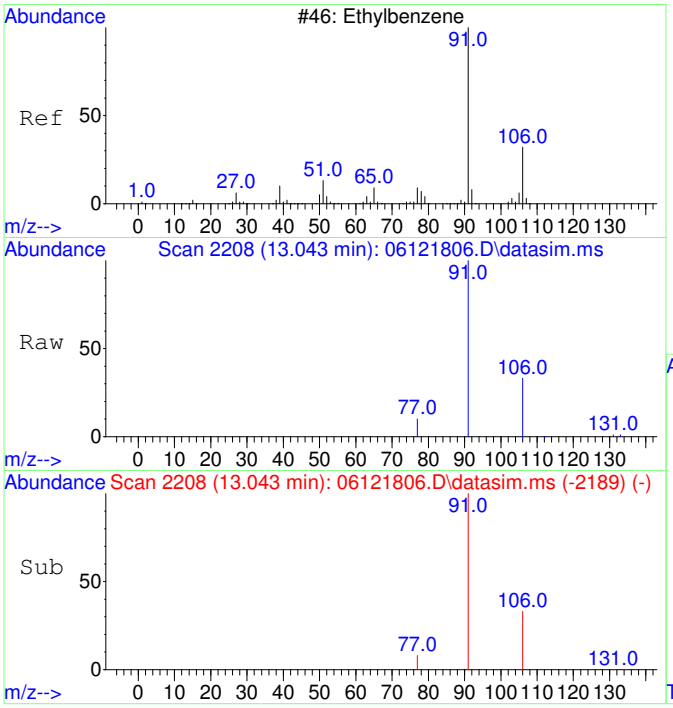


#17
1,1,1,2-Tetrachloroethane
Concen: 1030.18 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:131 Resp: 5102

Ion	Ratio	Lower	Upper
131	100		
133	99.1	66.2	126.2

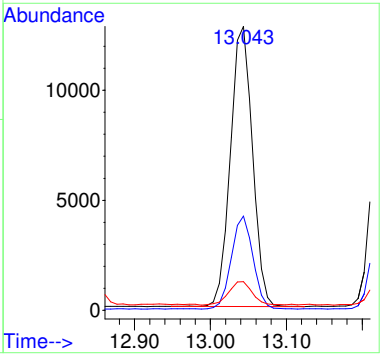


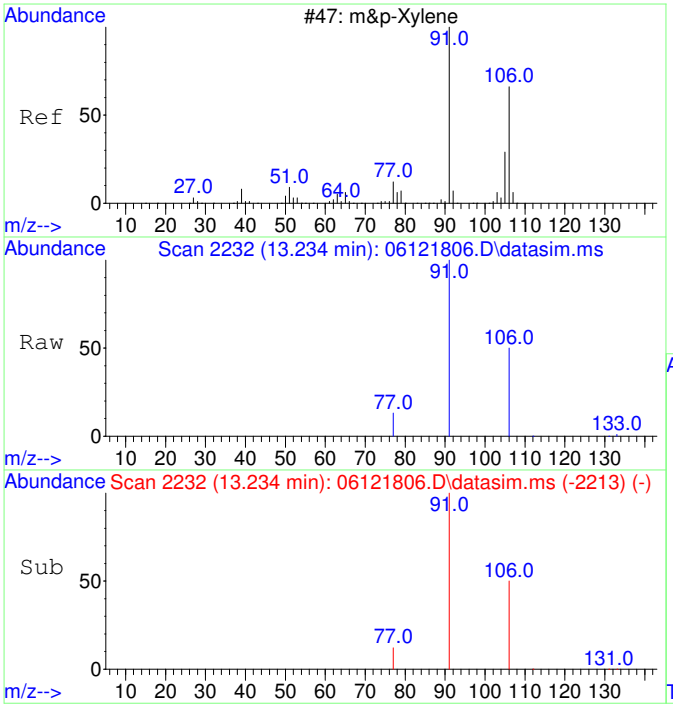


#18
Ethylbenzene
Concen: 1047.26 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 25697

Ion	Ratio	Lower	Upper
91	100		
106	32.5	2.8	62.8
77	9.2	0.0	38.6

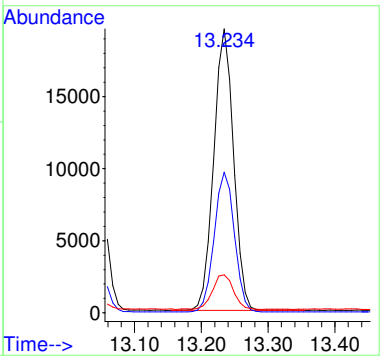


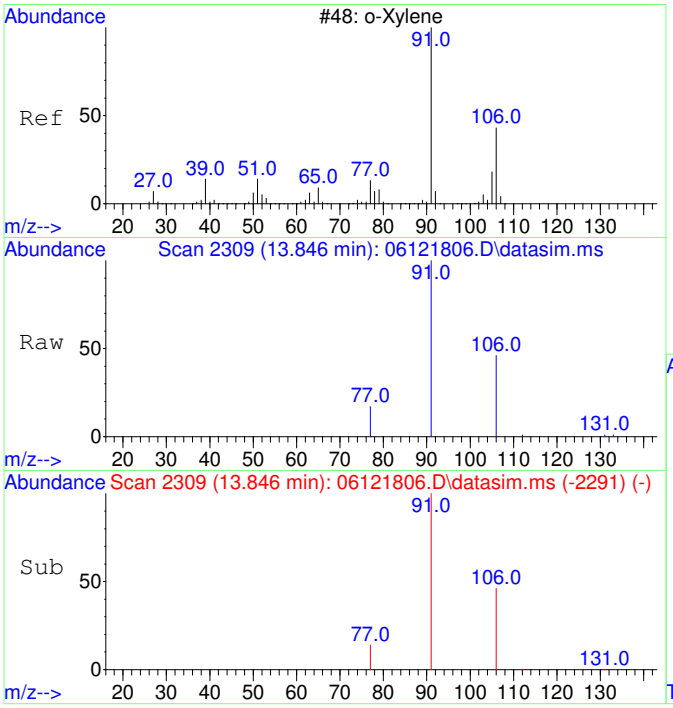


#19
m&p-Xylene
Concen: 2126.18 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 40266

Ion	Ratio	Lower	Upper
91	100		
106	50.6	21.2	81.2
77	13.1	0.0	42.9

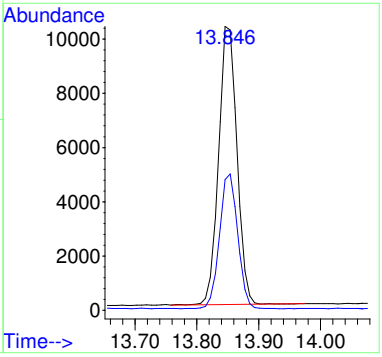


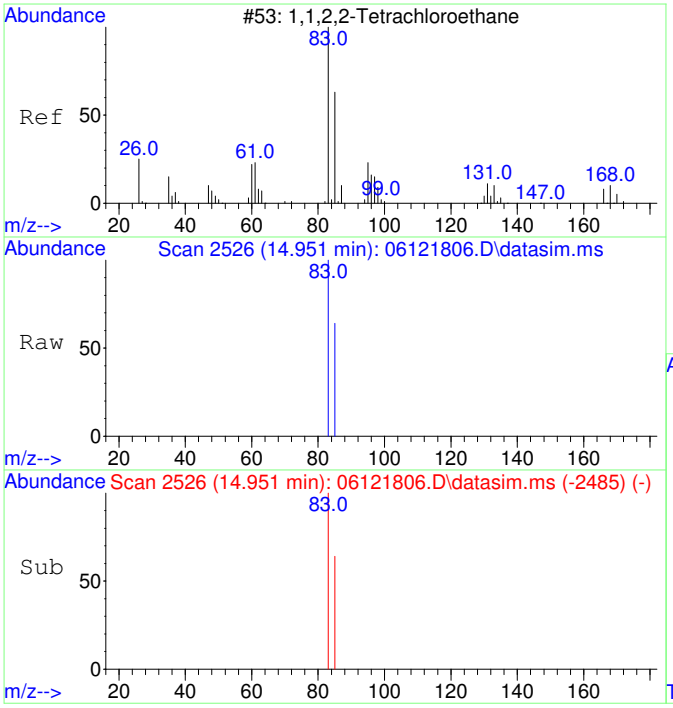


#20
o-Xylene
Concen: 1052.20 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 21104

Ion	Ratio	Lower	Upper
91	100		
106	48.1	18.3	78.3

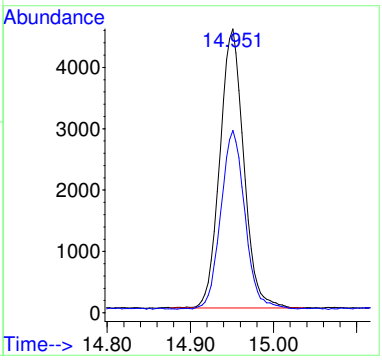


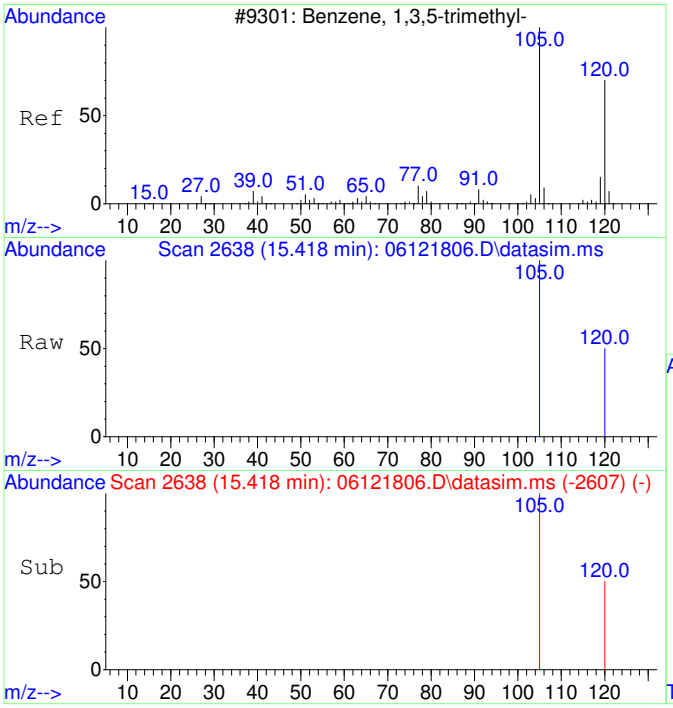


#21
1,1,2,2-Tetrachloroethane
Concen: 1051.19 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 9080

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.4	94.4

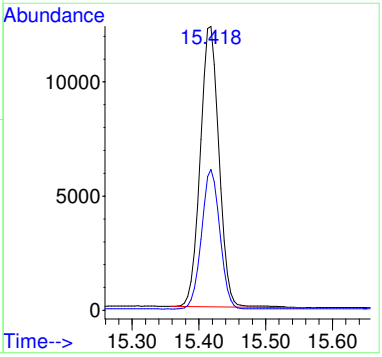


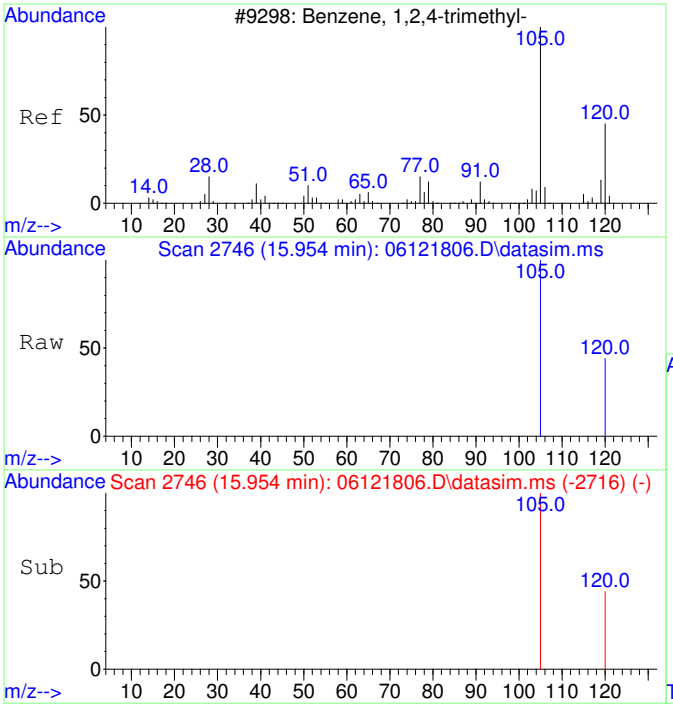


#22
1,3,5-Trimethylbenzene
Concen: 1055.83 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 23961

Ion	Ratio	Lower	Upper
105	100		
120	48.4	19.1	79.1

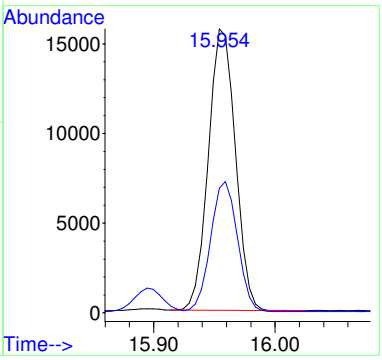


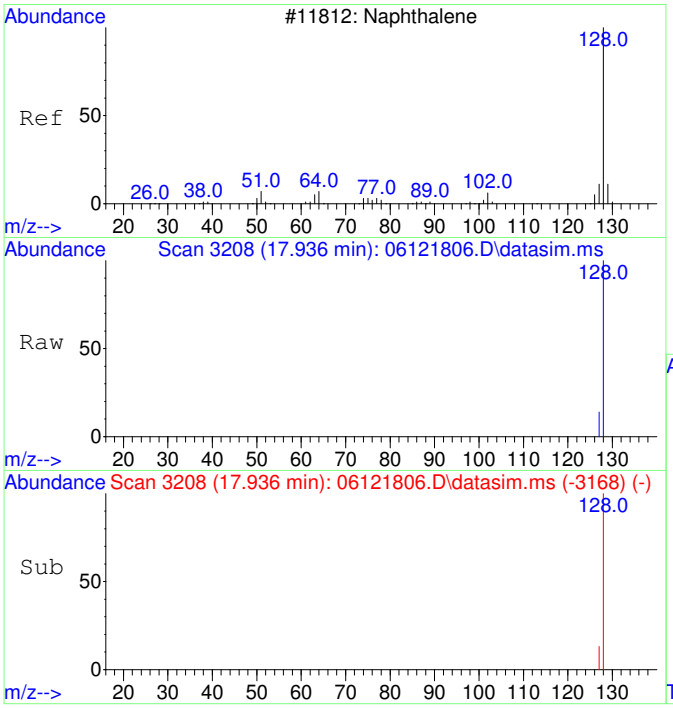


#23
1,2,4-Trimethylbenzene
Concen: 1071.21 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 24317

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

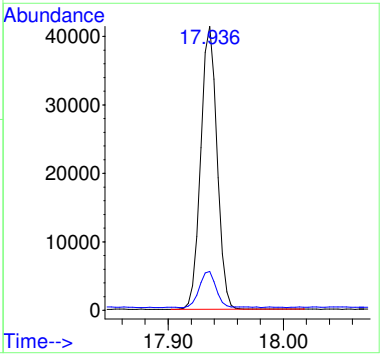


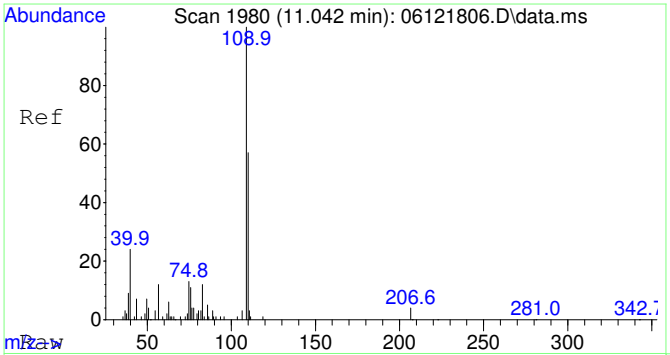


#24
Naphthalene
Concen: 1088.43 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:128 Resp: 40548

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.5

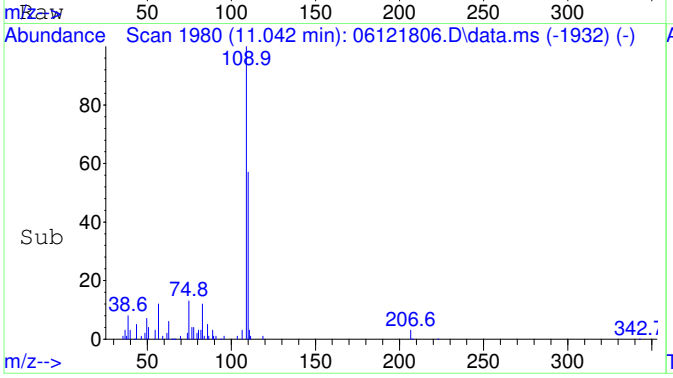


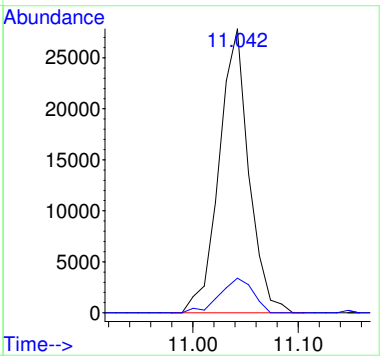


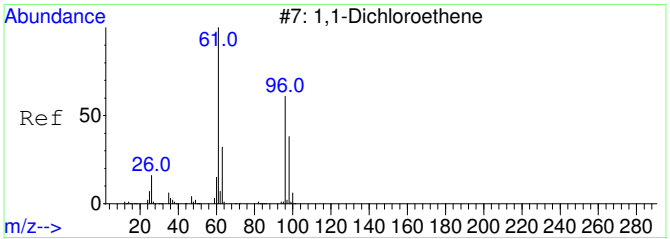
#25
2-Fluorotoluene SCAN
Concen: 5005.66 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:109 Resp: 54763

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	45.7



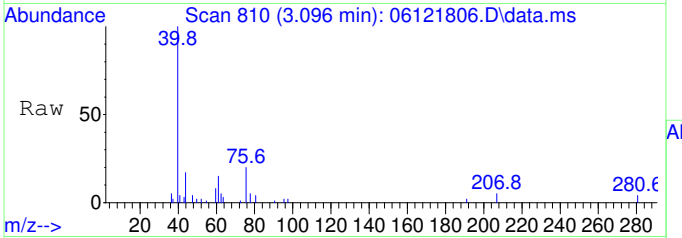


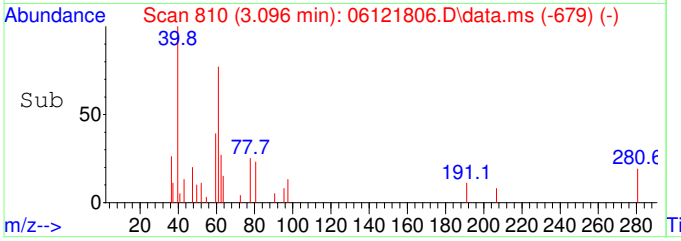


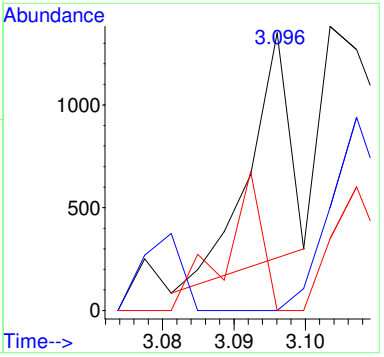
#26
1,1-Dichloroethene SCAN
Concen: 164.47 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.015 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

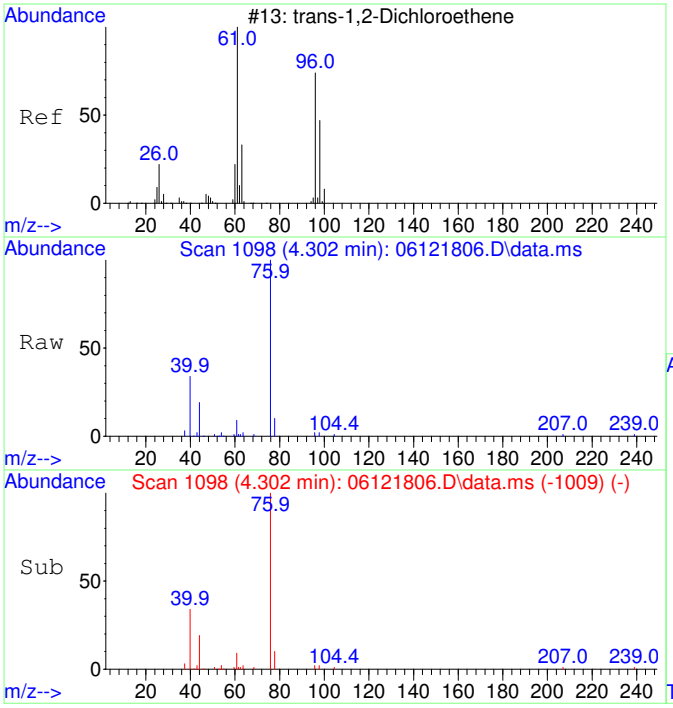
Tgt Ion: 61 Resp: 449

Ion	Ratio	Lower	Upper
61	100		
96	31.8	23.8	83.8
98	54.3	8.8	68.8





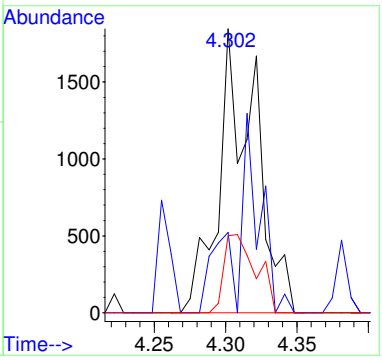


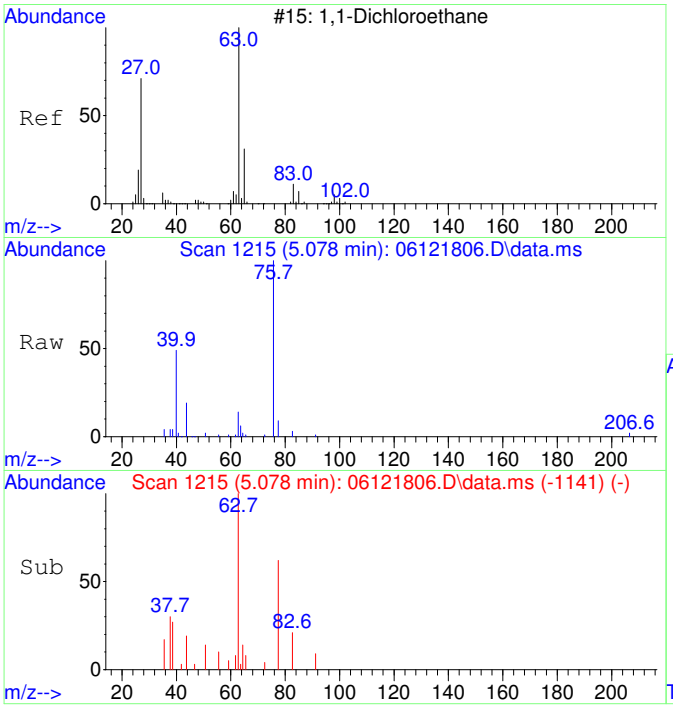


#27
trans-1,2-Dichloroethene SCAN
Concen: 1038.01 ug/L
RT: 4.302 min Scan# 1098
Delta R.T. -0.033 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3299

Ion	Ratio	Lower	Upper
61	100		
96	48.3	37.9	97.9
98	24.2	12.7	72.7

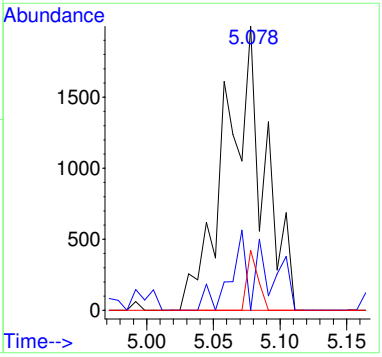


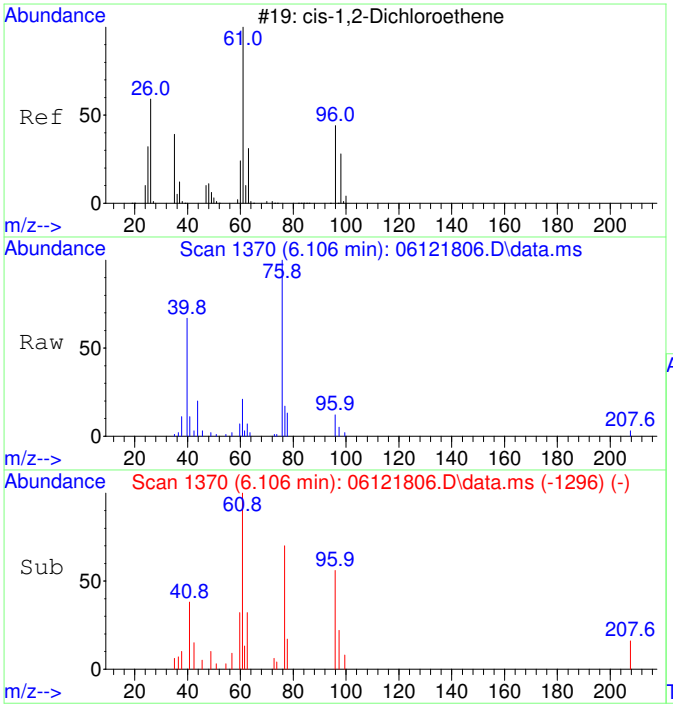


#28
1,1-Dichloroethane SCAN
Concen: 1005.39 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 63 Resp: 4065

Ion	Ratio	Lower	Upper
63	100		
65	11.2	7.5	67.5
83	6.0	0.0	34.3

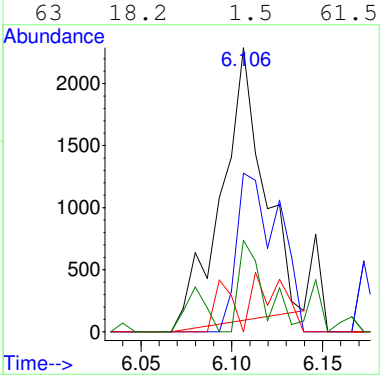


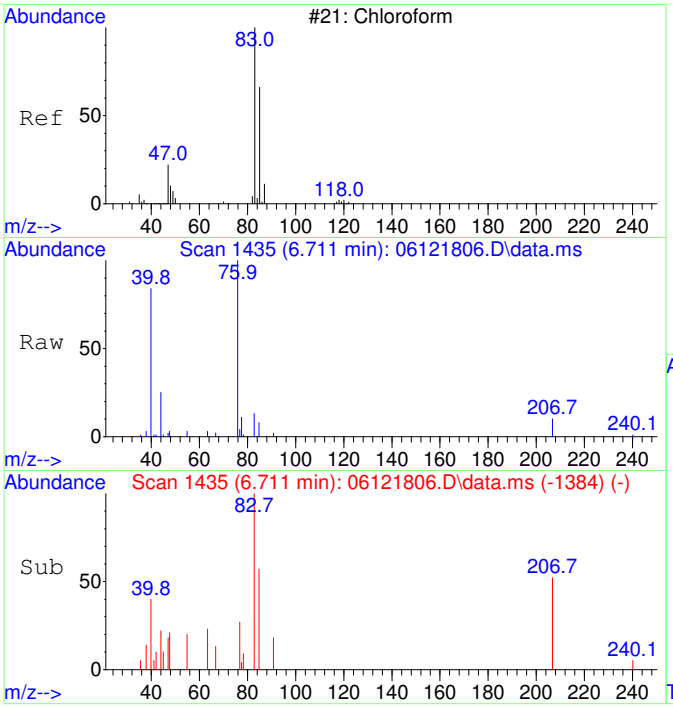


#29
cis-1,2-Dichloroethene SCAN
Concen: 1020.65 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3569

Ion	Ratio	Lower	Upper
61	100		
96	57.5	28.2	88.2
98	15.1	14.1	74.1
63	18.2	1.5	61.5

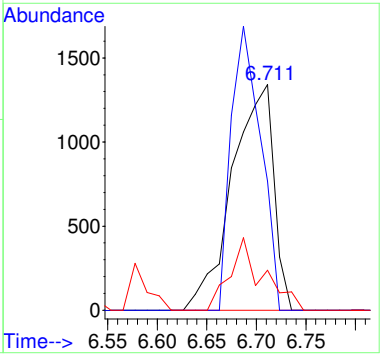


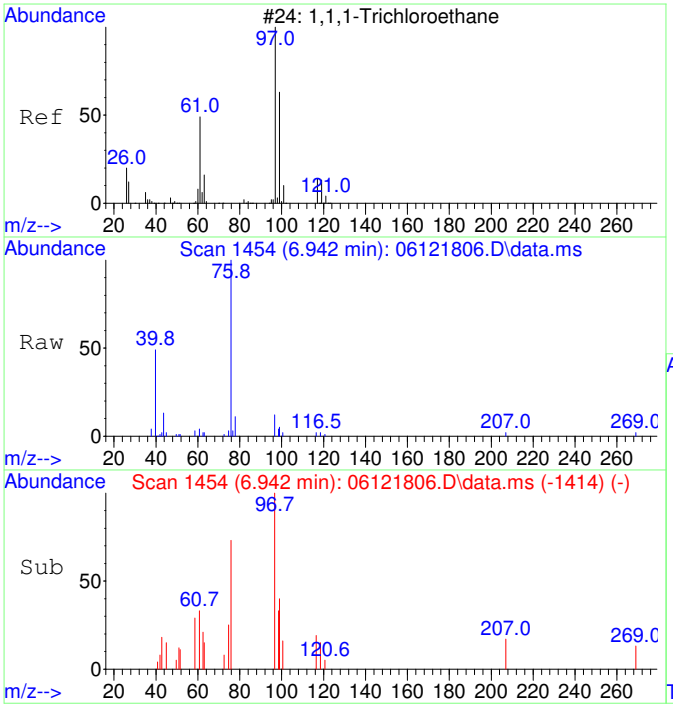


#30
Chloroform SCAN
Concen: 913.54 ug/L
RT: 6.711 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 3921

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

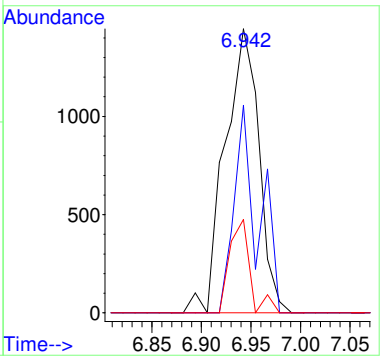


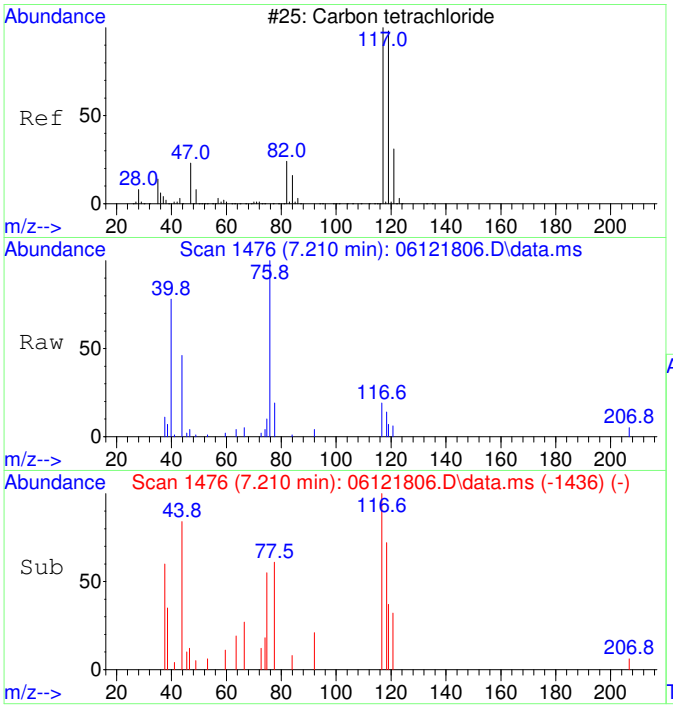


#31
1,1,1-Trichloroethane SCAN
Concen: 905.32 ug/L
RT: 6.942 min Scan# 1454
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 3459

Ion	Ratio	Lower	Upper
97	100		
99	51.2	27.9	87.9
61	19.7	15.1	75.1

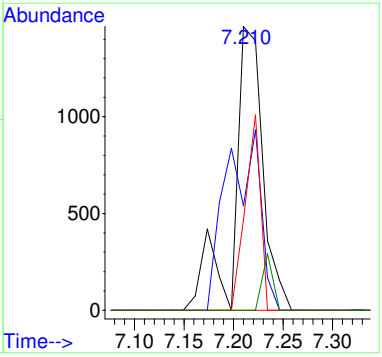


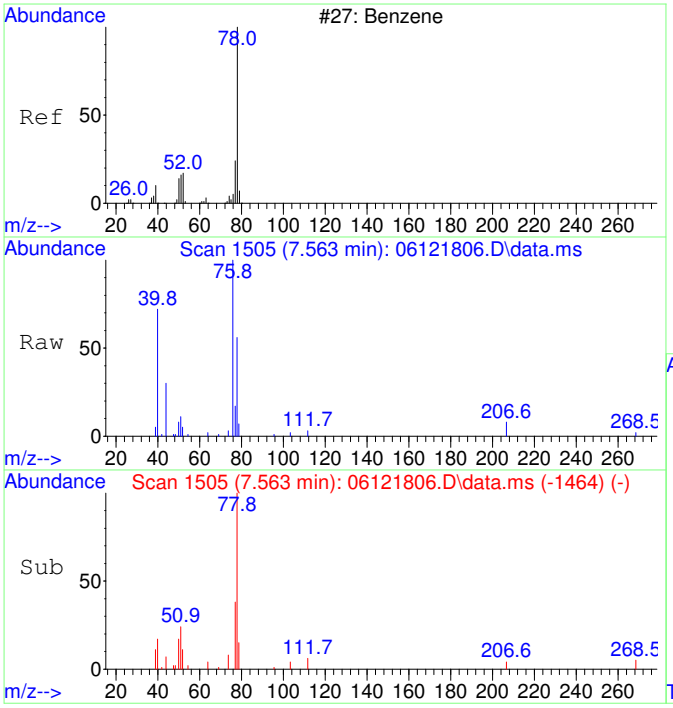


#32
Carbon tetrachloride SCAN
Concen: 783.60 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:117 Resp: 2950

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

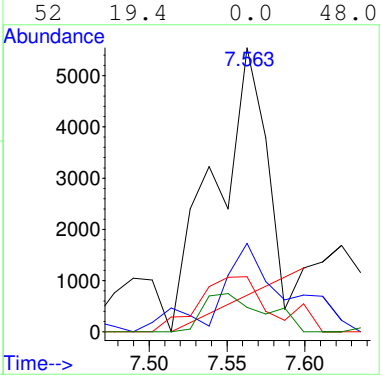


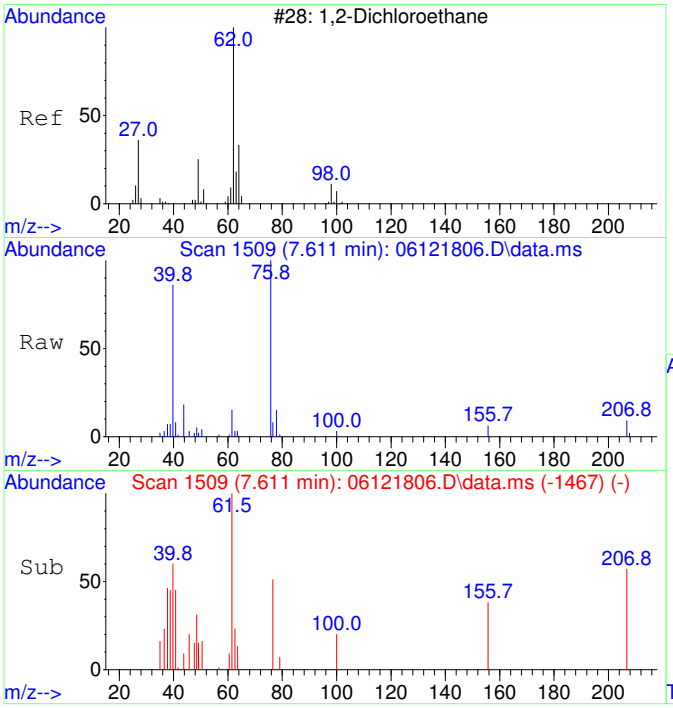


#33
Benzene SCAN
Concen: 923.58 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 78 Resp: 10523

Ion	Ratio	Lower	Upper
78	100		
77	49.6	3.0	63.0
51	33.2	0.0	56.4
52	19.4	0.0	48.0

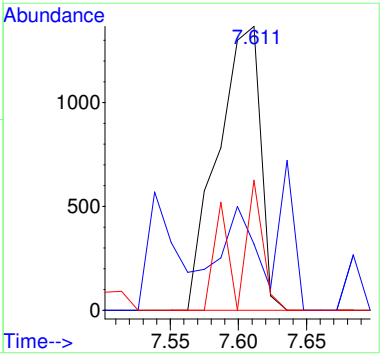


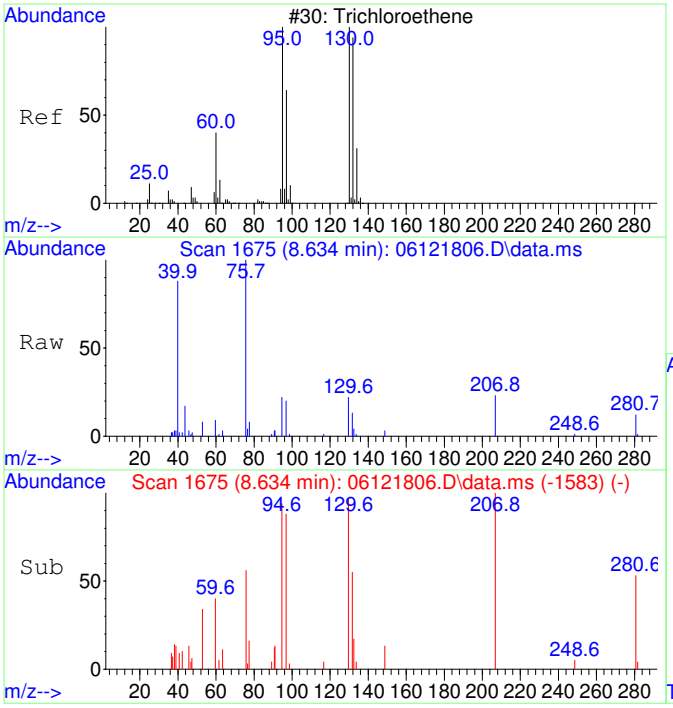


#34
1,2-Dichloroethane SCAN
Concen: 768.98 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 62 Resp: 2988

Ion	Ratio	Lower	Upper
62	100		
64	14.0	1.2	61.2
49	0.0	10.4	70.4#

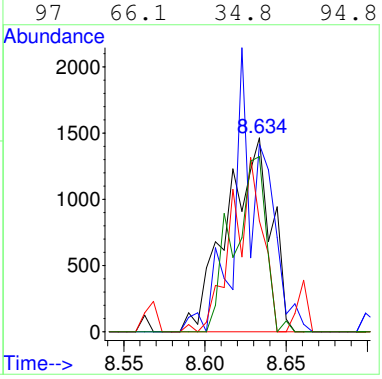


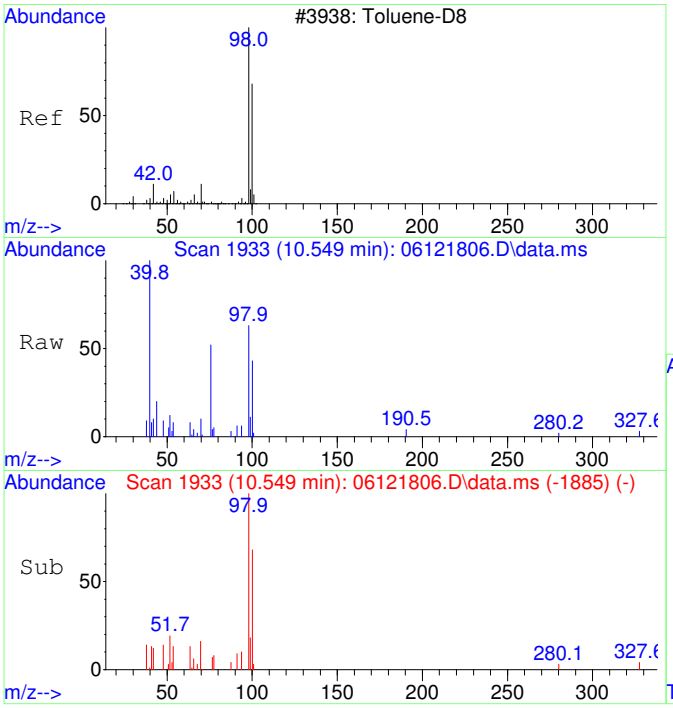


#35
Trichloroethene SCAN
Concen: 999.60 ug/L
RT: 8.634 min Scan# 1675
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:130 Resp: 2787

Ion	Ratio	Lower	Upper
130	100		
95	94.7	70.5	130.5
132	61.0	63.8	123.8#
97	66.1	34.8	94.8

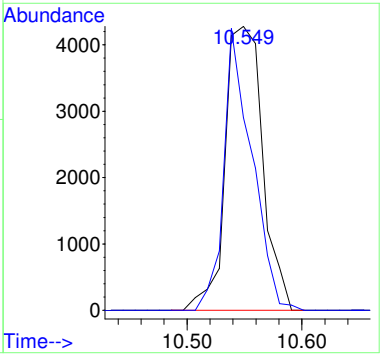


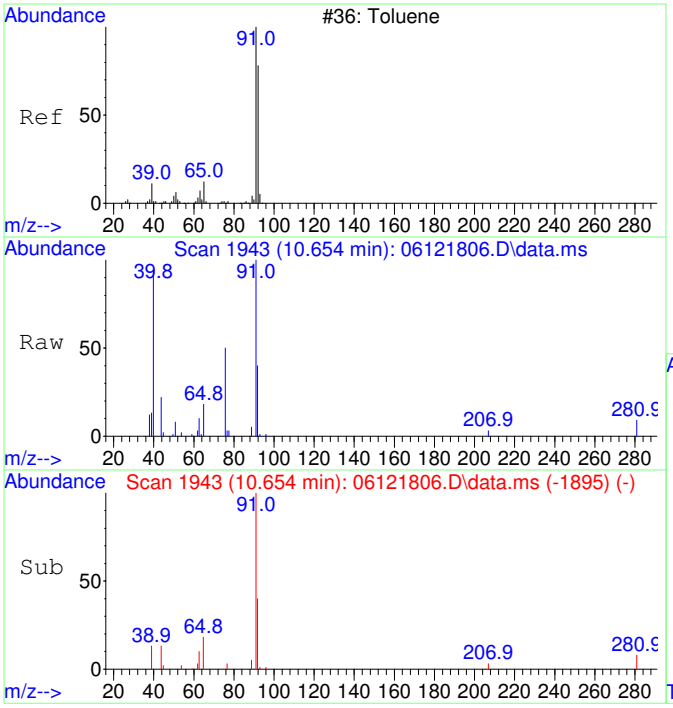


#36
Toluene-d8 SCAN
Concen: 982.82 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 98 Resp: 9720

Ion	Ratio	Lower	Upper
98	100		
100	74.5	39.5	99.5

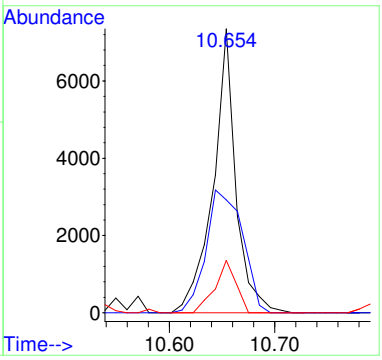


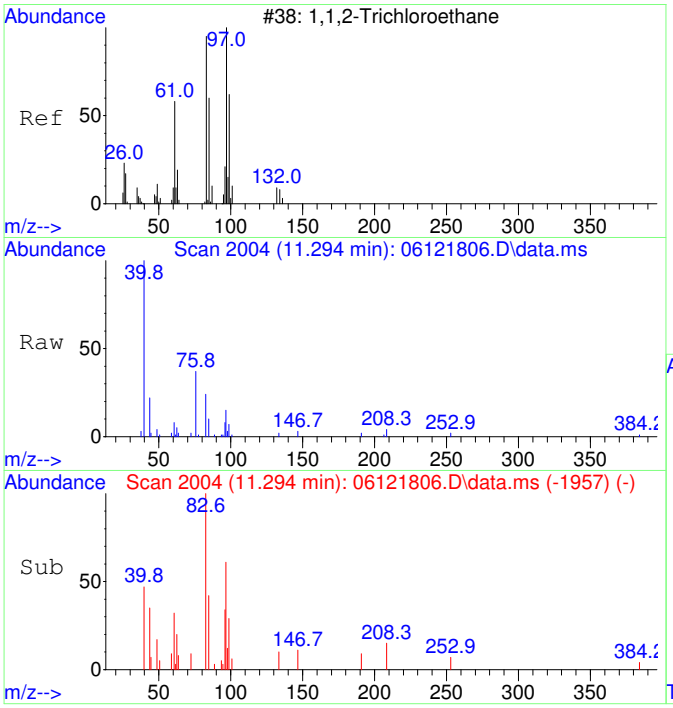


#37
Toluene SCAN
Concen: 876.73 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 11076

Ion	Ratio	Lower	Upper
91	100		
92	69.3	26.6	86.6
65	17.0	0.0	42.3

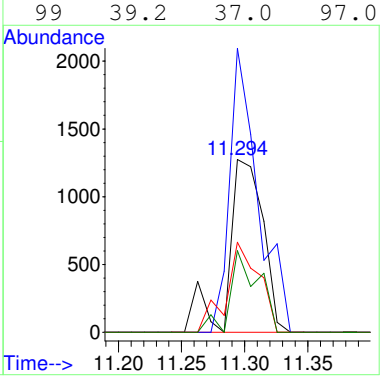


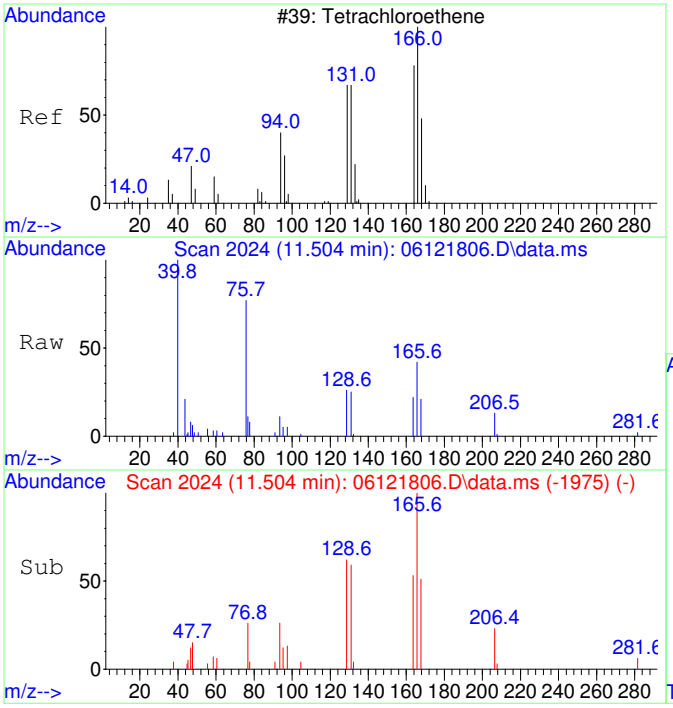


#38
1,1,2-Trichloroethane SCAN
Concen: 999.66 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 2420

Ion	Ratio	Lower	Upper
97	100		
83	135.1	63.6	123.6#
61	49.5	44.9	104.9
99	39.2	37.0	97.0

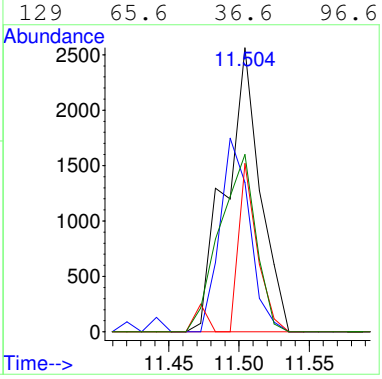


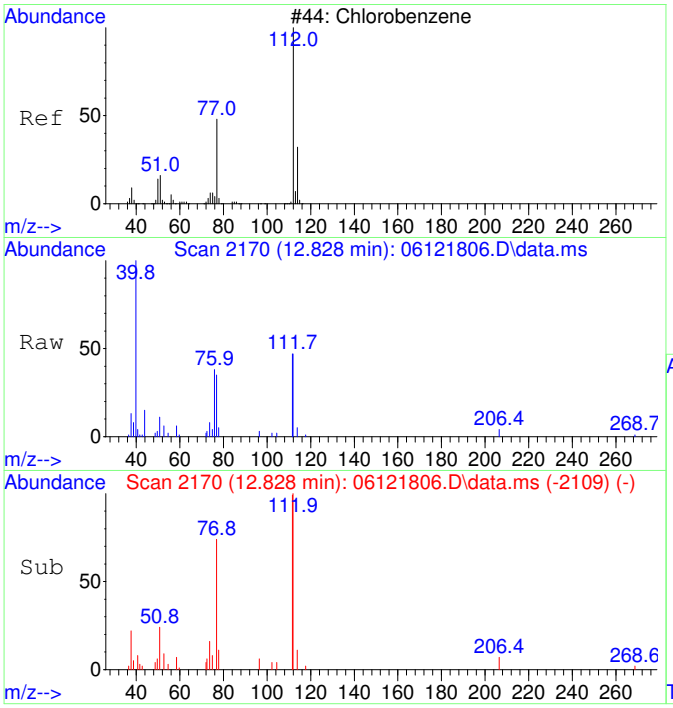


#39
Tetrachloroethene SCAN
Concen: 1592.94 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.011 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:166 Resp: 4416

Ion	Ratio	Lower	Upper
166	100		
164	58.6	43.3	103.3
131	35.6	35.6	95.6#
129	65.6	36.6	96.6

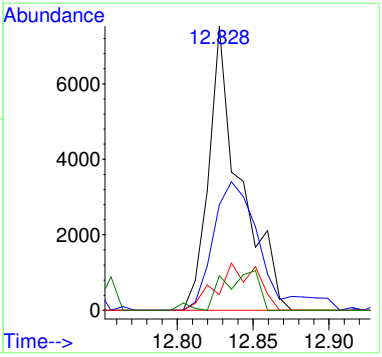


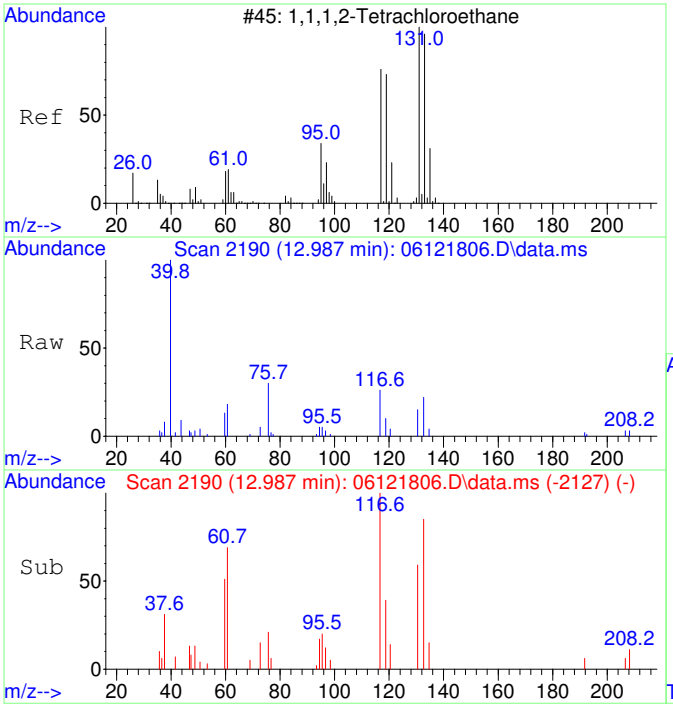


#40
Chlorobenzene SCAN
Concen: 1410.03 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.016 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:112 Resp: 10806

Ion	Ratio	Lower	Upper
112	100		
77	68.5	28.4	88.4
114	21.4	0.0	59.5
51	0.0	0.0	53.7

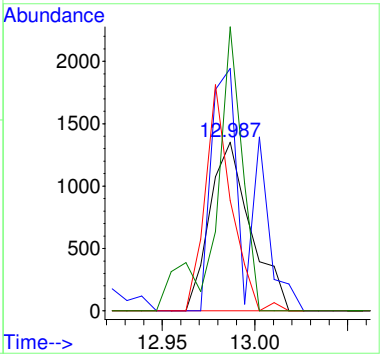


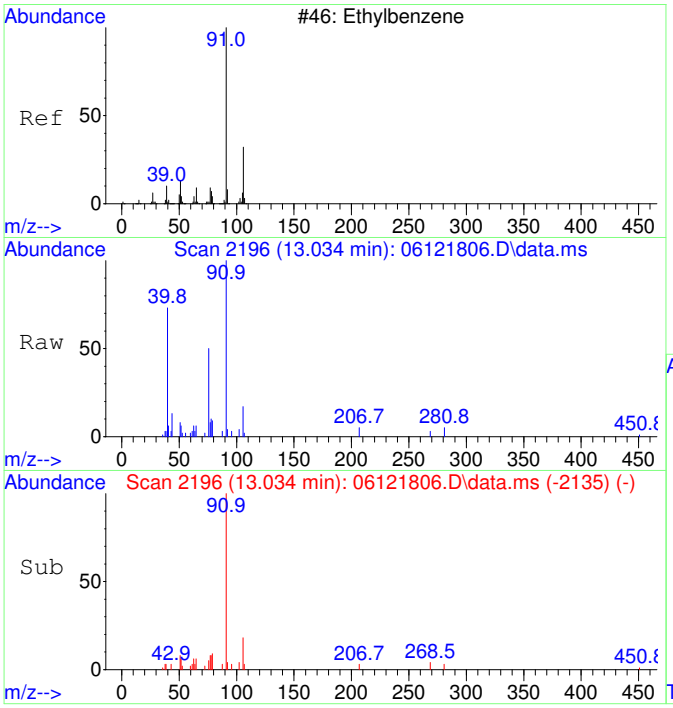


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 761.47 ug/L
RT: 12.987 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:131 Resp: 2083

Ion	Ratio	Lower	Upper
131	100		
133	128.9	56.7	116.7#
119	84.8	37.9	97.9
117	109.6	28.2	88.2#

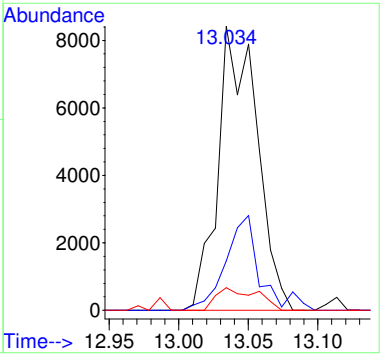


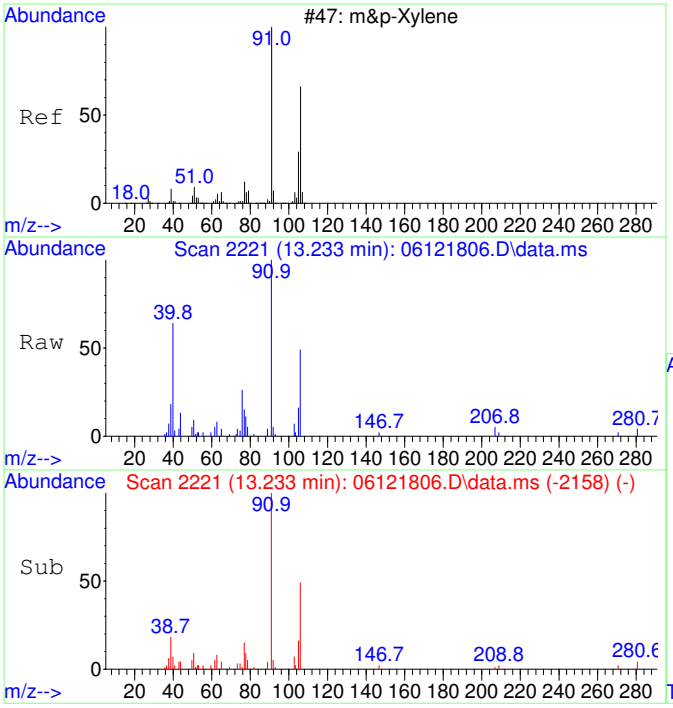


#42
Ethylbenzene SCAN
Concen: 1119.12 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.016 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 16434

Ion	Ratio	Lower	Upper
91	100		
106	29.3	3.2	63.2
51	8.3	0.0	40.1

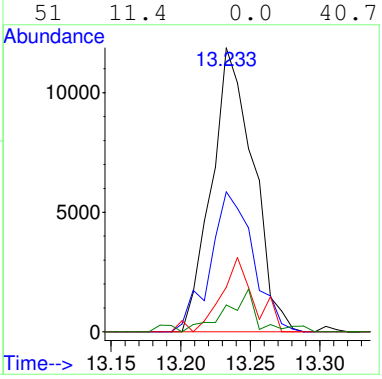


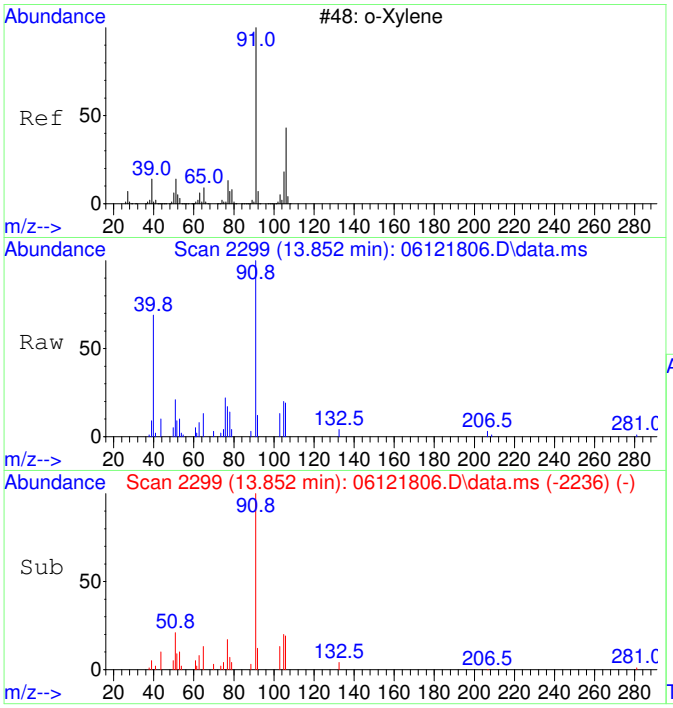


#43
m&p-Xylene SCAN
Concen: 1212.80 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 24721

Ion	Ratio	Lower	Upper
91	100		
106	50.9	20.1	80.1
105	21.0	0.0	51.1
51	11.4	0.0	40.7

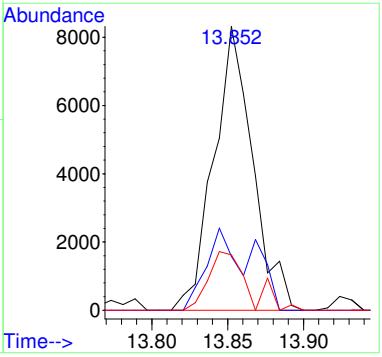


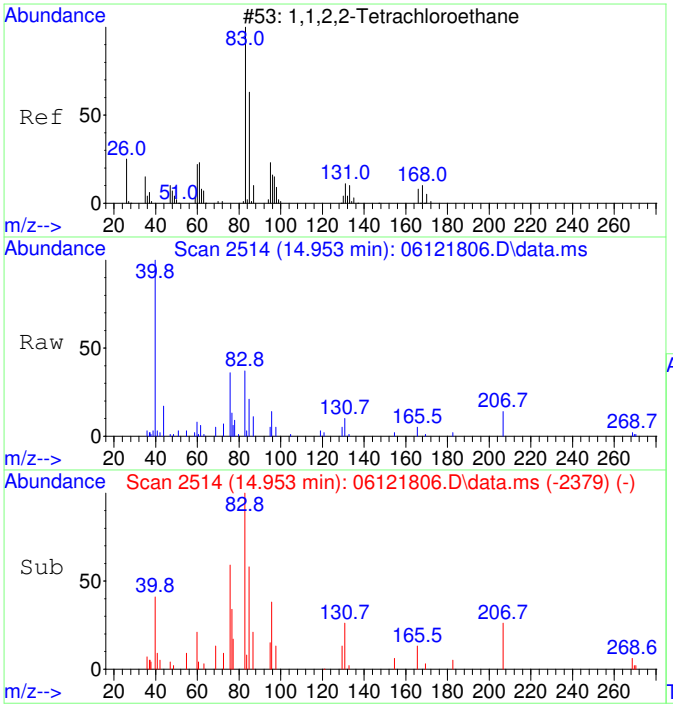


#44
o-Xylene SCAN
Concen: 1285.26 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 14911

Ion	Ratio	Lower	Upper
91	100		
106	33.2	21.3	81.3
105	20.9	0.0	55.2

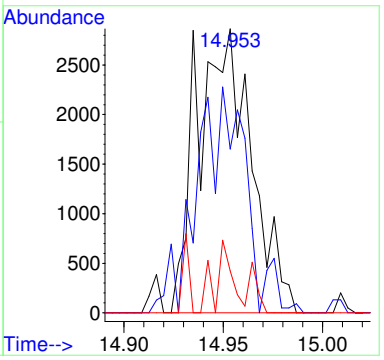


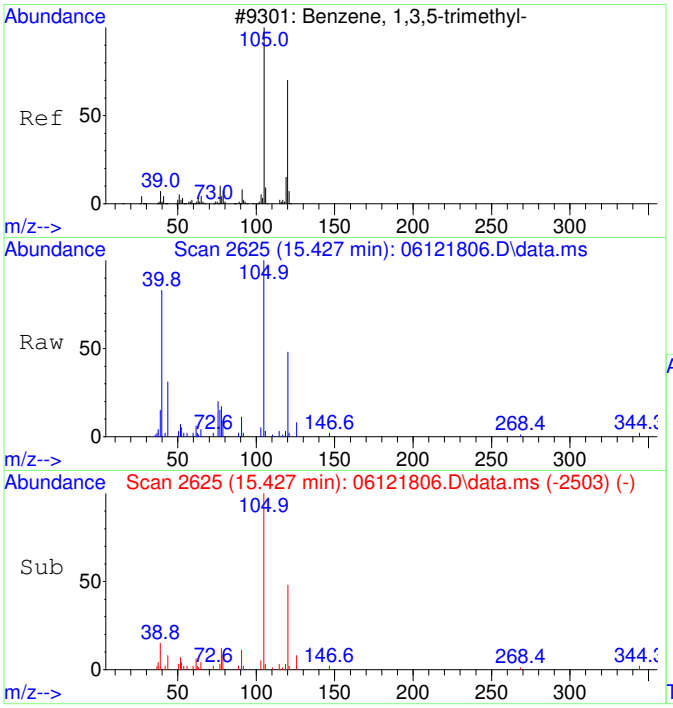


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 988.43 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 5435

Ion	Ratio	Lower	Upper
83	100		
85	16.5	31.6	91.6#
95	5.2	0.0	49.0

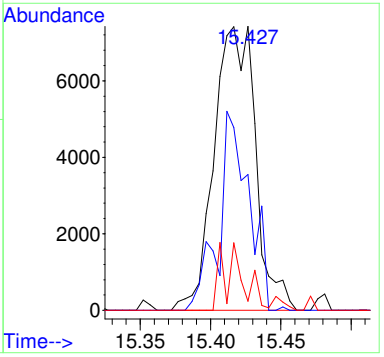


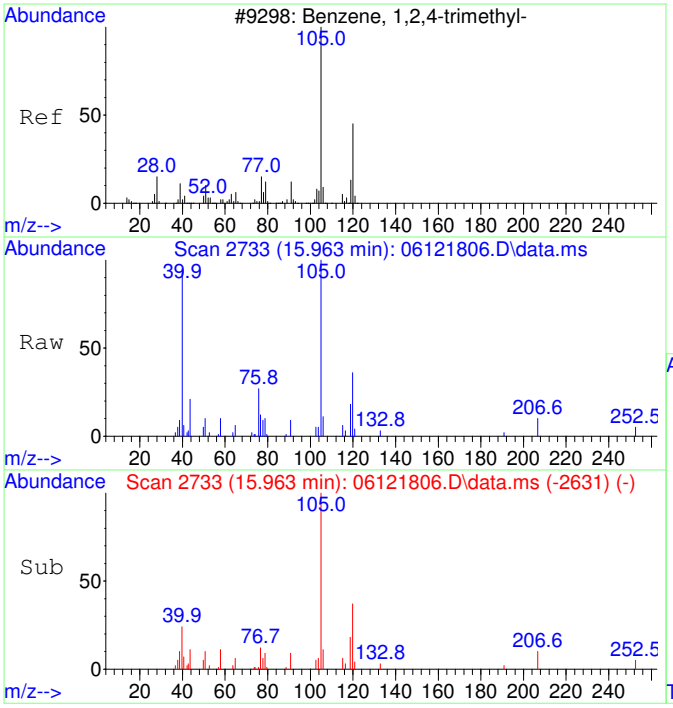


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1326.26 ug/L
RT: 15.427 min Scan# 2625
Delta R.T. 0.014 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 15256

Ion	Ratio	Lower	Upper
105	100		
120	51.3	16.8	76.8
119	3.5	0.0	41.5

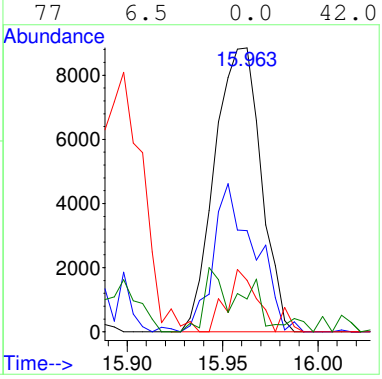


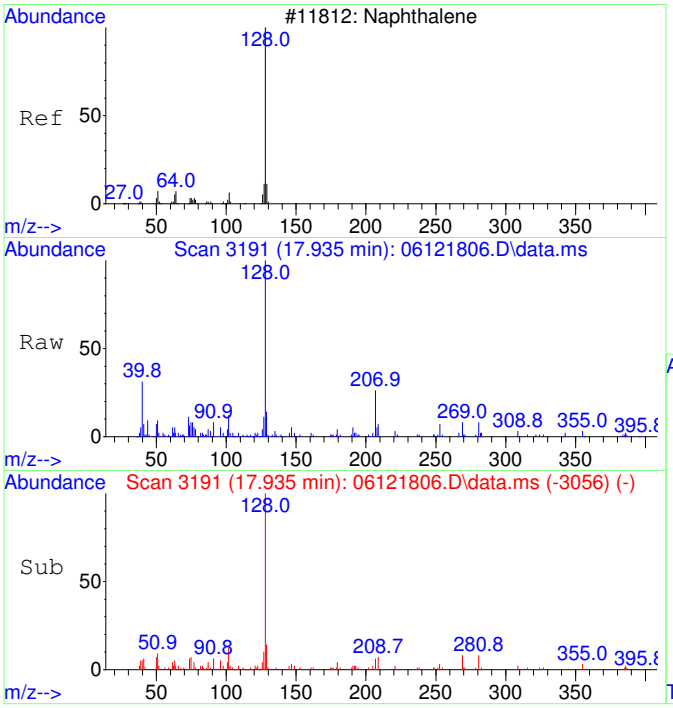


#47
1,2,4-Trimethylbenzene SCAN
Concen: 1271.38 ug/L
RT: 15.963 min Scan# 2733
Delta R.T. 0.009 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 14988

Ion	Ratio	Lower	Upper
105	100		
120	46.6	15.4	75.4
119	13.7	0.0	41.7
77	6.5	0.0	42.0

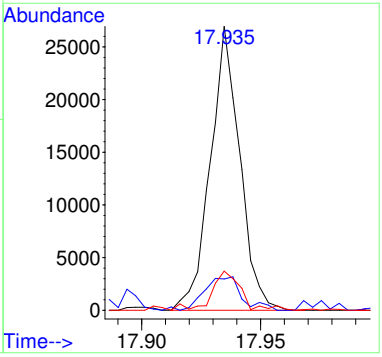




#48
Naphthalene SCAN
Concen: 1383.04 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. -0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:128 Resp: 23263

Ion	Ratio	Lower	Upper
128	100		
127	15.0	0.0	43.9
129	12.1	0.0	40.5



S18F027-CAL5

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121807.D
Acq On : 12 Jun 2018 15:19
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL5
Misc : 1823102 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

M.I. Performed By:
RH at 1:35 pm, Jun 15, 2018

M.I. Approved By:
ZR at 10:13 am, Jun 20, 2018

Quant Time: Jun 14 17:04:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration

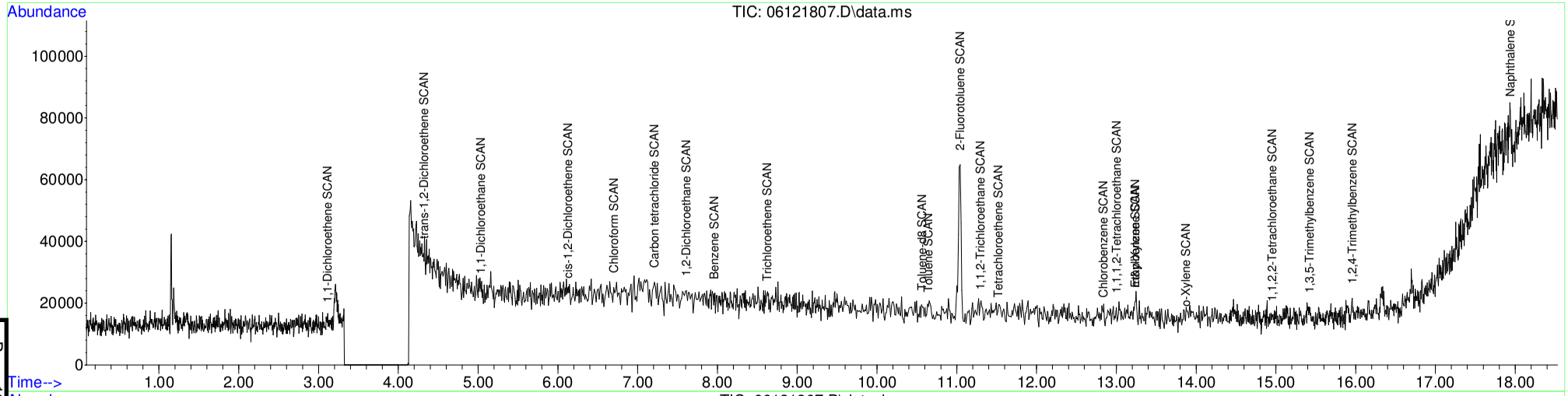
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	75573	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	1881	153.23	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 3.06%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.108	61	490m	151.55	ug/L	
3] trans-1,2-Dichloroethene	4.310	61	514	152.10	ug/L	94
4] 1,1-Dichloroethane	5.073	63	648	154.06	ug/L	89
5] cis-1,2-Dichloroethene	6.108	61	635	153.04	ug/L	100
6] Chloroform	6.688	83	686	153.54	ug/L	89
7] 1,1,1-Trichloroethane	6.944	97	647	147.13	ug/L	95
8] Carbon tetrachloride	7.211	117	644	154.60	ug/L	92
9] Benzene	7.552	78	2116	174.39	ug/L	69
10] 1,2-Dichloroethane	7.588	62	620	158.54	ug/L	71
11] Trichloroethene	8.624	130	510	152.93	ug/L	95
13] Toluene	10.645	91	2599	157.91	ug/L	98
14] 1,1,2-Trichloroethane	11.296	97	521	153.15	ug/L	90
15] Tetrachloroethene	11.495	166	716	154.41	ug/L	99
16] Chlorobenzene	12.837	112	1823	155.19	ug/L	89
17] 1,1,1,2-Tetrachloroethane	12.988	131	623	156.28	ug/L	89
18] Ethylbenzene	13.044	91	3137	158.83	ug/L	97
19] m&p-Xylene	13.234	91	4884	320.39	ug/L	98
20] o-Xylene	13.854	91	2578	159.68	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.951	83	1097	157.77	ug/L	97
22] 1,3,5-Trimethylbenzene	15.418	105	2992	163.79	ug/L	96
23] 1,2,4-Trimethylbenzene	15.959	105	2942	161.01	ug/L	100
24] Naphthalene	17.936	128	4891	163.10	ug/L	86
25) 2-Fluorotoluene SCAN	11.042	109	39990	4541.08	ug/L	99
26) 1,1-Dichloroethene SCAN	3.107	61	221	100.57	ug/L #	52
27) trans-1,2-Dichloroethe...	4.315	61	253	98.89	ug/L #	48
28) 1,1-Dichloroethane SCAN	5.032	63	320	98.32	ug/L	71
29) cis-1,2-Dichloroethene...	6.126	61	102	36.24	ug/L #	58
30) Chloroform SCAN	6.699	83	374	108.25	ug/L #	1
32) Carbon tetrachloride SCAN	7.210	117	332	109.56	ug/L #	13
33) Benzene SCAN	7.959	78	1285	140.11	ug/L	84
34) 1,2-Dichloroethane SCAN	7.611	62	271	86.64	ug/L #	1
35) Trichloroethene SCAN	8.617	130	210	93.57	ug/L #	49
36) Toluene-d8 SCAN	10.560	98	1671	209.90	ug/L	99
37) Toluene SCAN	10.644	91	2480	243.87	ug/L #	29
38) 1,1,2-Trichloroethane ...	11.294	97	446	228.88	ug/L #	27
39) Tetrachloroethene SCAN	11.515	166	167	74.84	ug/L #	15
40) Chlorobenzene SCAN	12.836	112	400	64.84	ug/L #	12
41) 1,1,1,2-Tetrachloroeth...	13.003	131	482	218.90	ug/L #	22
42) Ethylbenzene SCAN	13.233	91	3384	286.28	ug/L	87
43) m&p-Xylene SCAN	13.233	91	3384	206.25	ug/L	73
44) o-Xylene SCAN	13.868	91	2634	282.06	ug/L	77
45) 1,1,2,2-Tetrachloroeth...	14.953	83	119	26.89	ug/L #	29
46) 1,3,5-Trimethylbenzene...	15.417	105	1650	178.20	ug/L #	80
47) 1,2,4-Trimethylbenzene...	15.958	105	1844	194.32	ug/L	79
48) Naphthalene SCAN	17.938	128	3112	229.85	ug/L	92

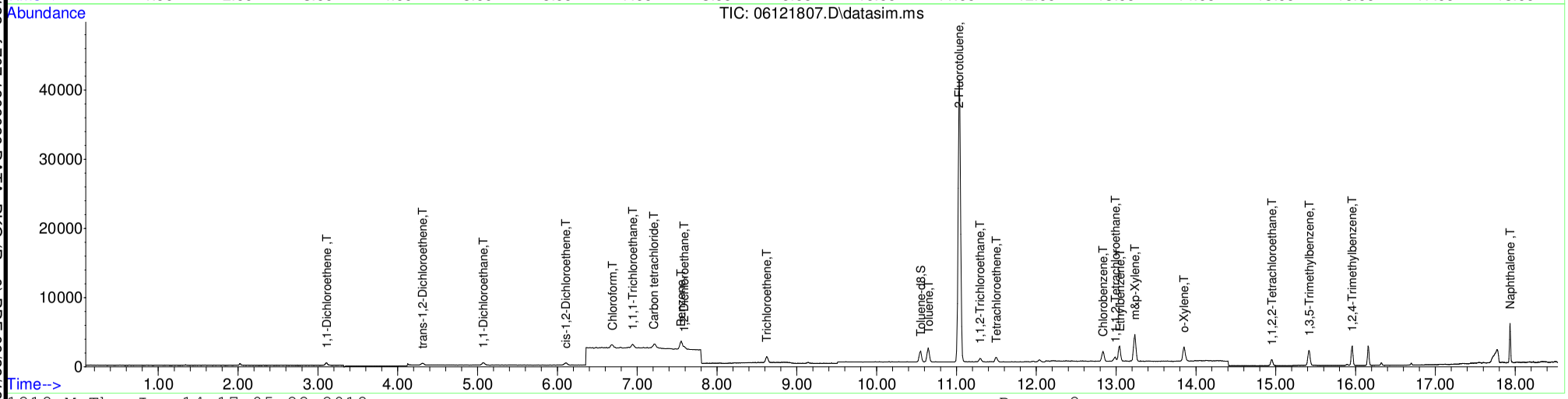
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121807.D
Acq On : 12 Jun 2018 15:19
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL5
Misc : 1823102 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 17:04:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration





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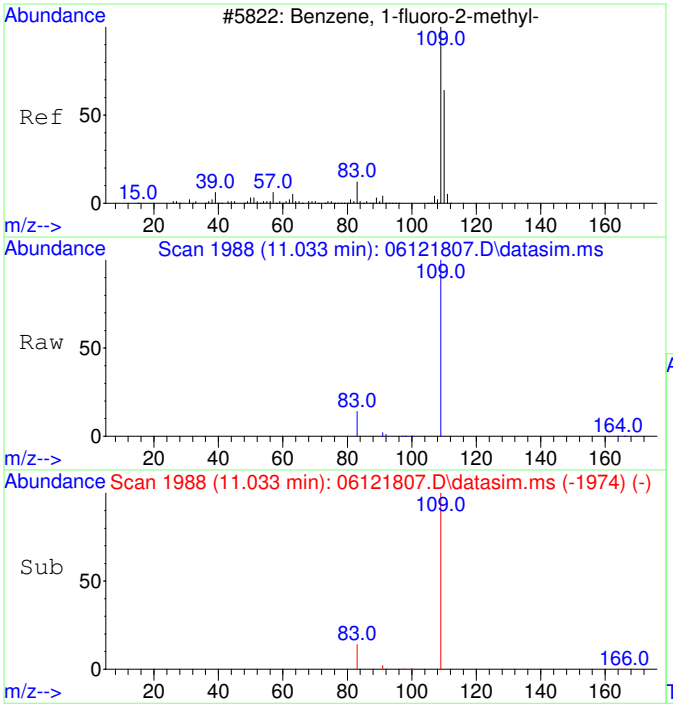
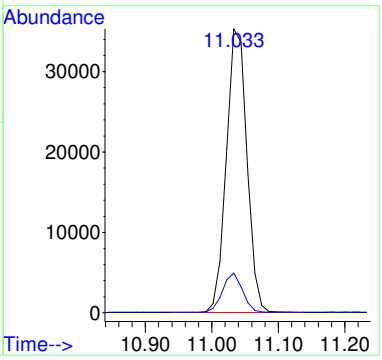
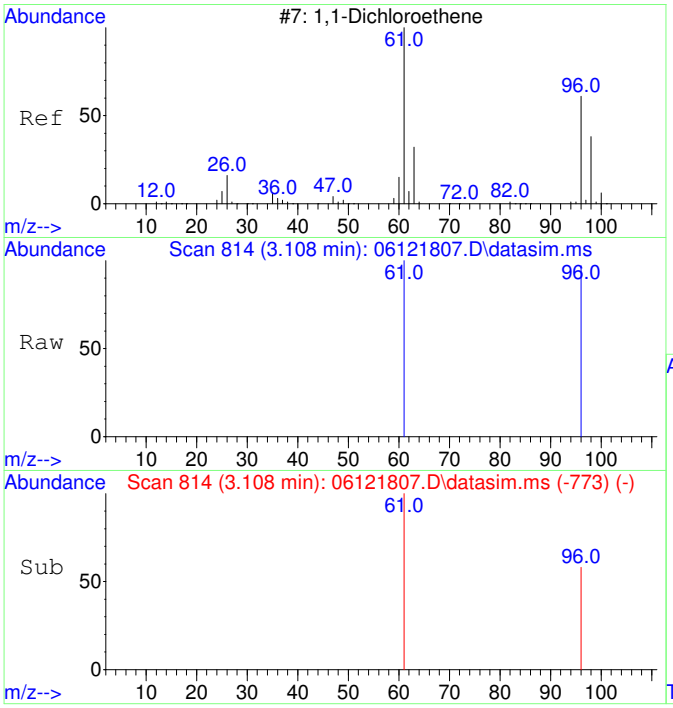


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:109 Resp: 75573

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	44.7

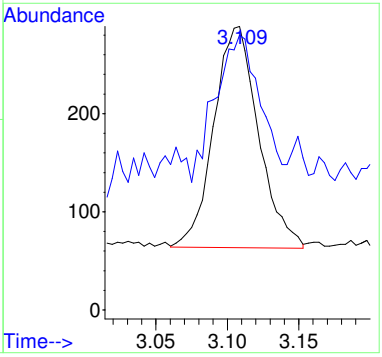


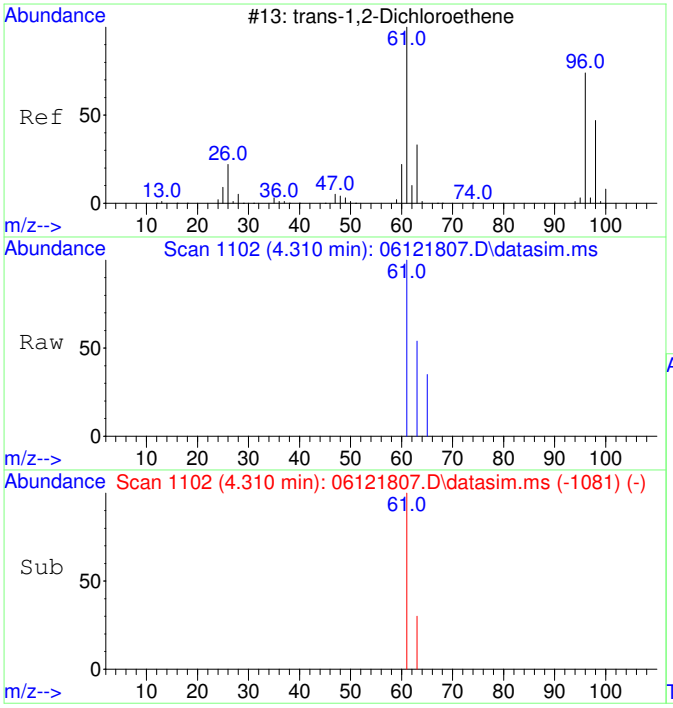


#2
1,1-Dichloroethene
Concen: 151.55 ug/L m
RT: 3.108 min Scan# 814
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 490

Ion	Ratio	Lower	Upper
61	100		
96	66.1	28.7	88.7

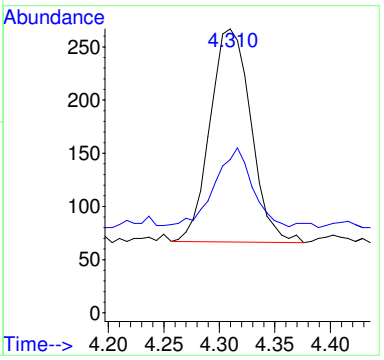


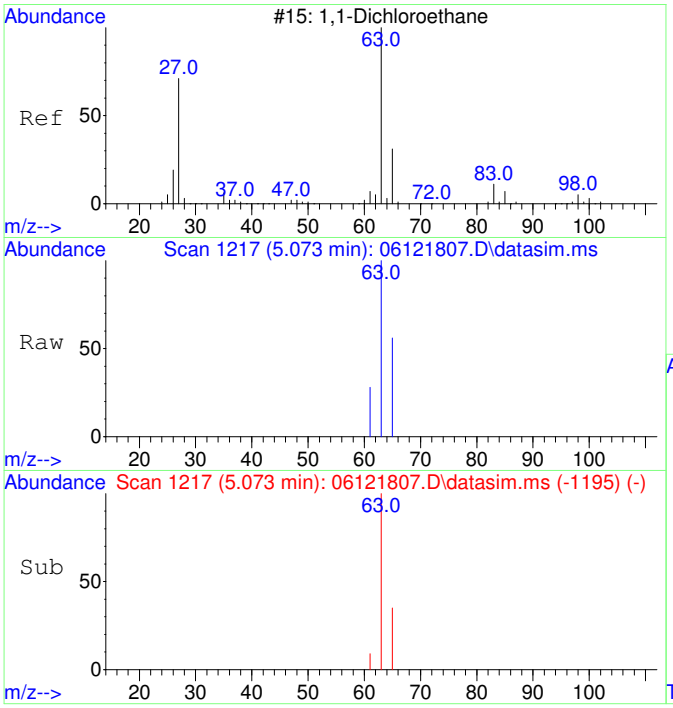


#3
trans-1,2-Dichloroethene
Concen: 152.10 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 514

Ion	Ratio	Lower	Upper
61	100		
63	35.2	2.0	62.0

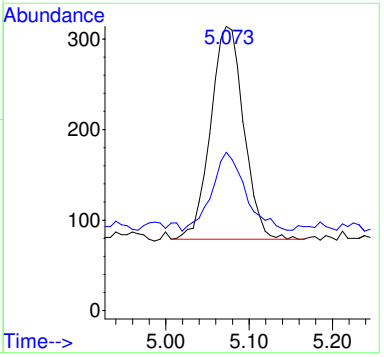


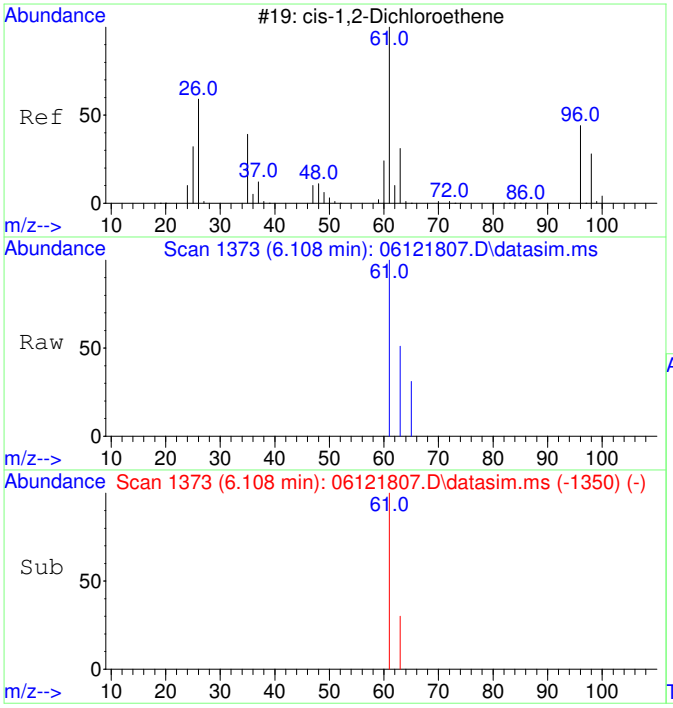


#4
1,1-Dichloroethane
Concen: 154.06 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 63 Resp: 648

Ion	Ratio	Lower	Upper
63	100		
65	37.8	1.5	61.5

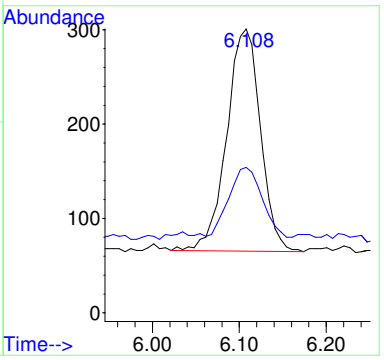


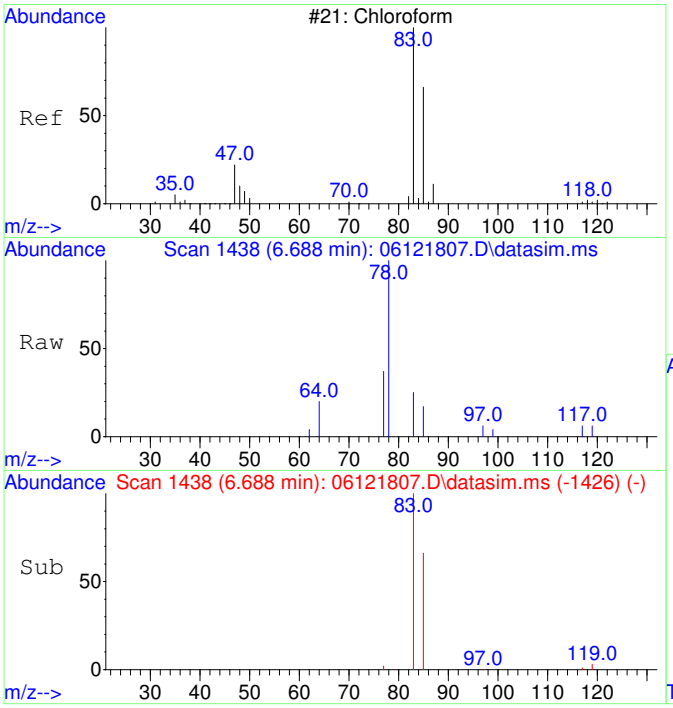


#5
cis-1,2-Dichloroethene
Concen: 153.04 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 635

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.2	62.2

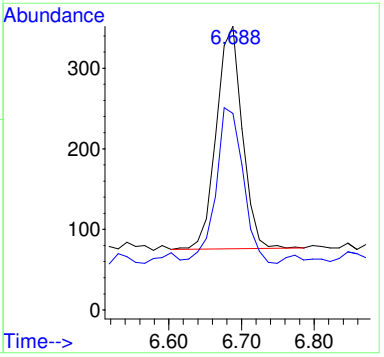


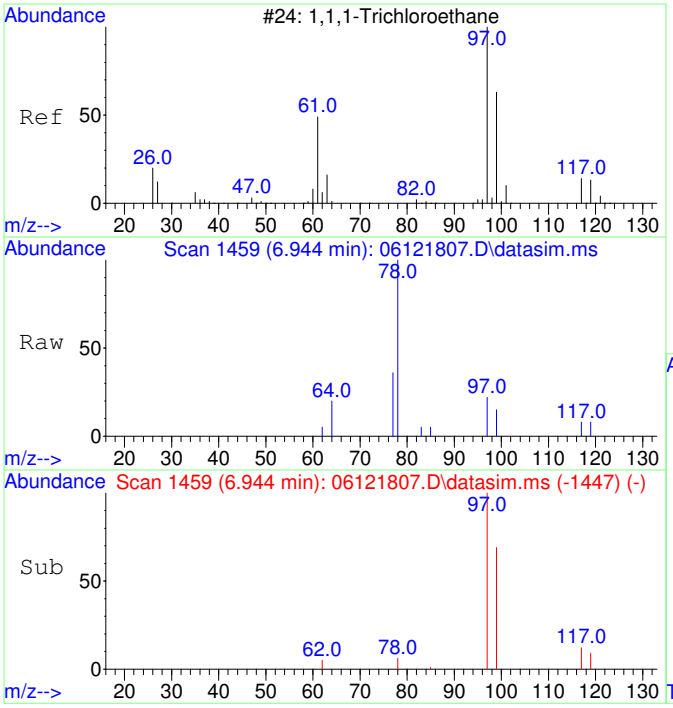


#6
Chloroform
Concen: 153.54 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 686

Ion	Ratio	Lower	Upper
83	100		
85	73.6	34.8	94.8

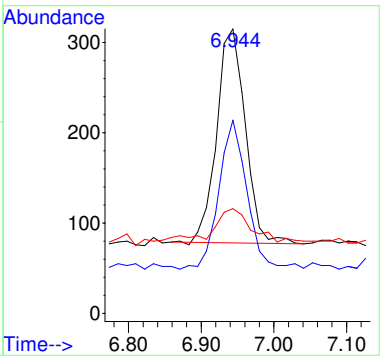


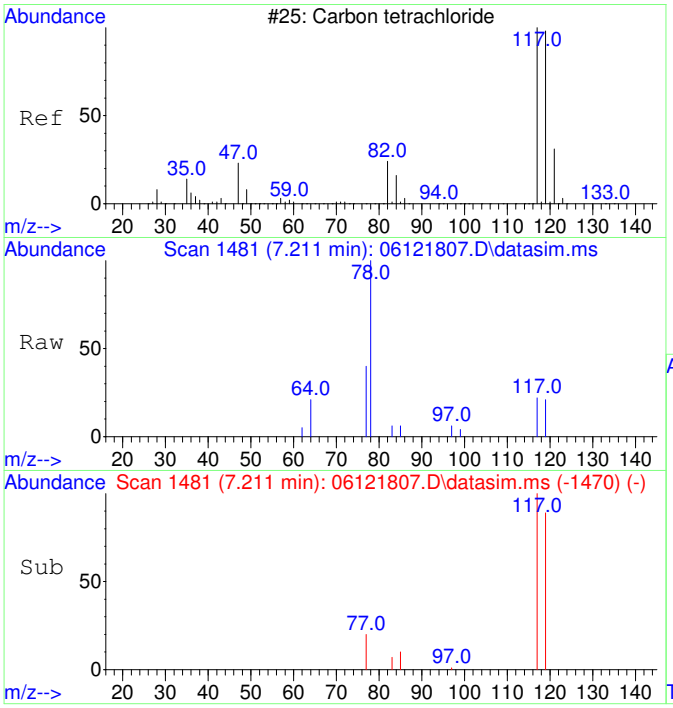


#7
1,1,1-Trichloroethane
Concen: 147.13 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 97 Resp: 647

Ion	Ratio	Lower	Upper
97	100		
99	67.9	34.6	94.6
117	17.3	0.0	42.9

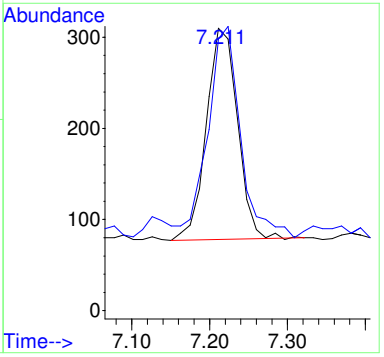


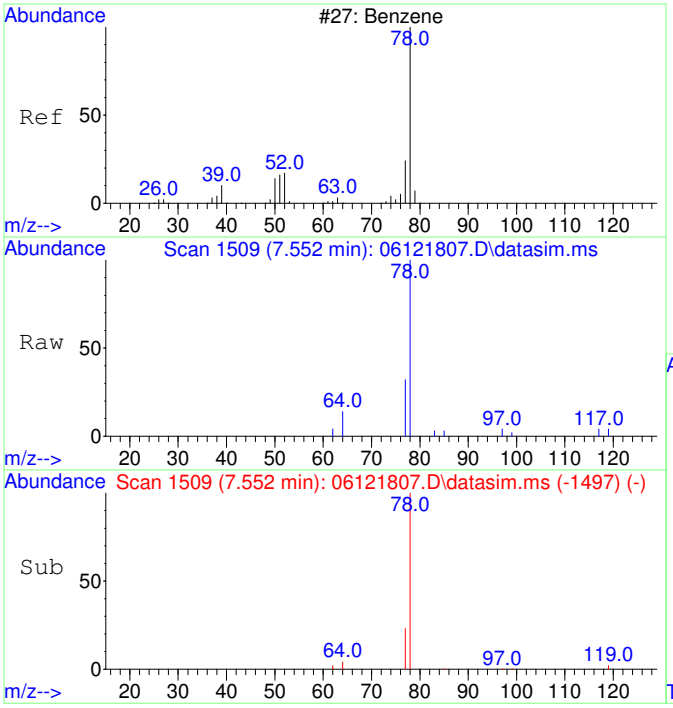


#8
Carbon tetrachloride
Concen: 154.60 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:117 Resp: 644

Ion	Ratio	Lower	Upper
117	100		
119	104.2	65.9	125.9

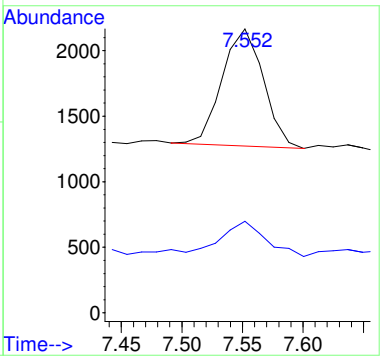


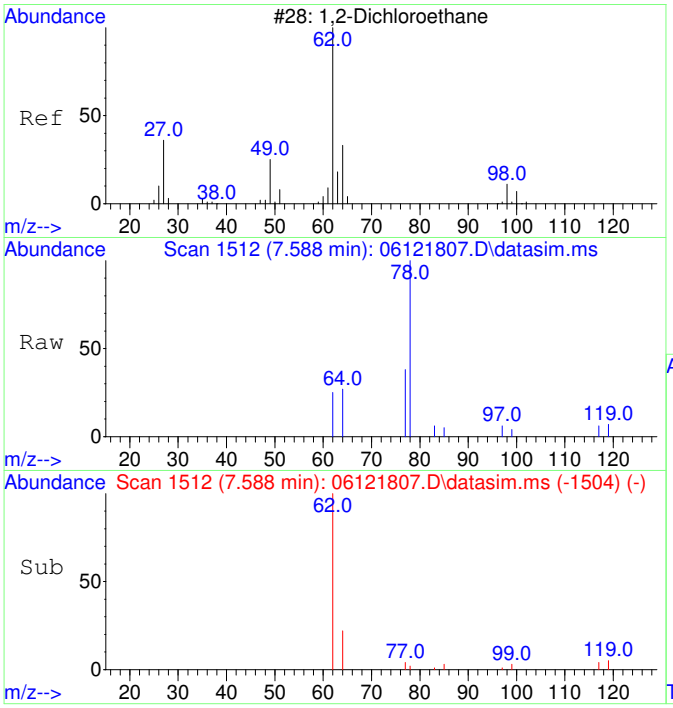


#9
Benzene
Concen: 174.39 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 78 Resp: 2116

Ion	Ratio	Lower	Upper
78	100		
77	37.9	0.0	53.0

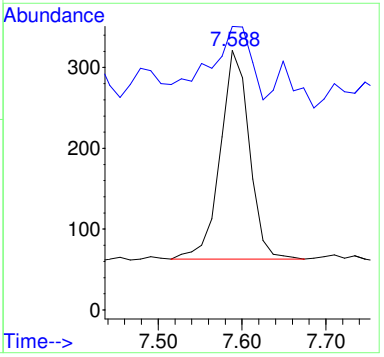


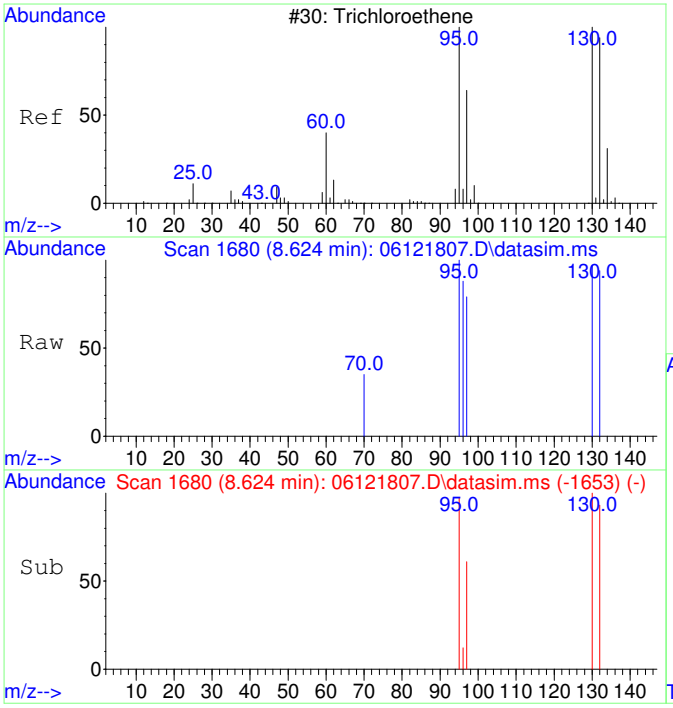


#10
1,2-Dichloroethane
Concen: 158.54 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 62 Resp: 620

Ion	Ratio	Lower	Upper
62	100		
64	48.7	2.3	62.3

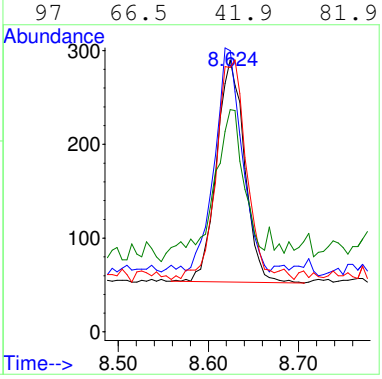


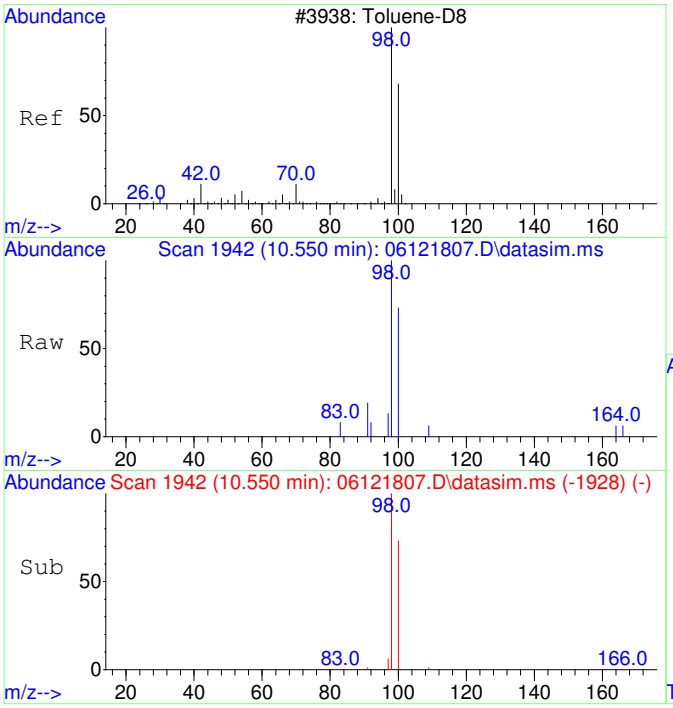


#11
Trichloroethene
Concen: 152.93 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:130 Resp: 510

Ion	Ratio	Lower	Upper
130	100		
95	97.6	66.0	126.0
132	106.7	78.8	118.8
97	66.5	41.9	81.9

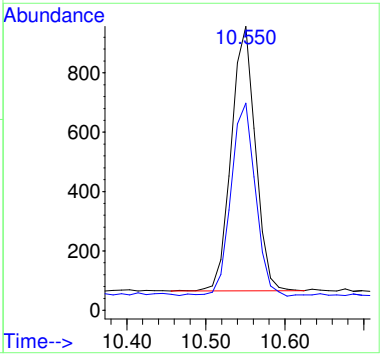


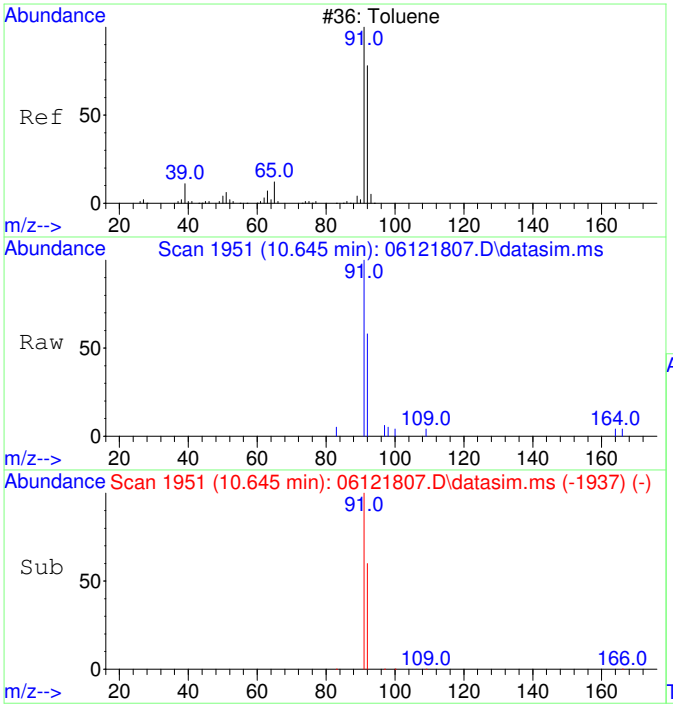


#12
Toluene-d8
Concen: 153.23 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 98 Resp: 1881

Ion	Ratio	Lower	Upper
98	100		
100	73.1	38.7	98.7

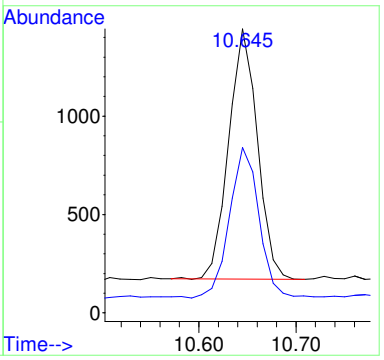


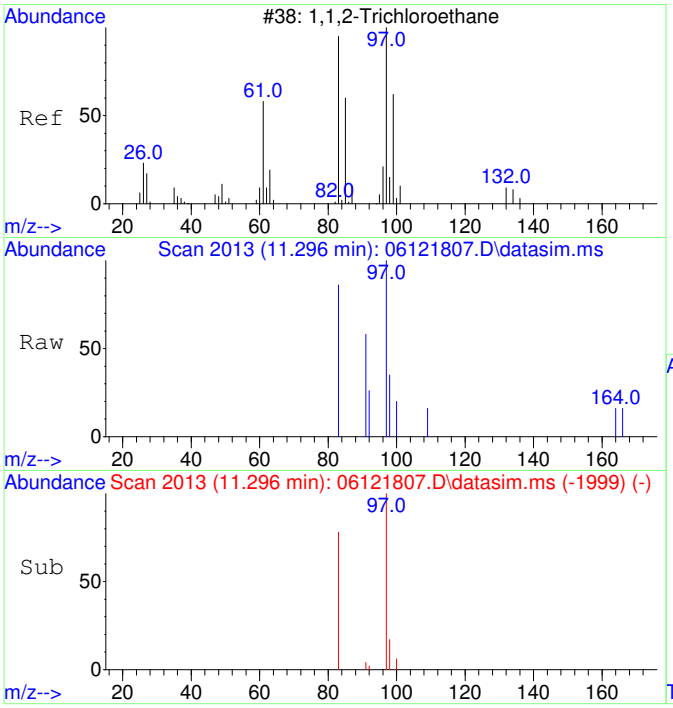


#13
Toluene
Concen: 157.91 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2599

Ion	Ratio	Lower	Upper
91	100		
92	61.4	30.0	90.0

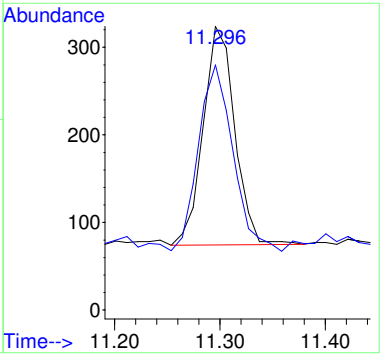


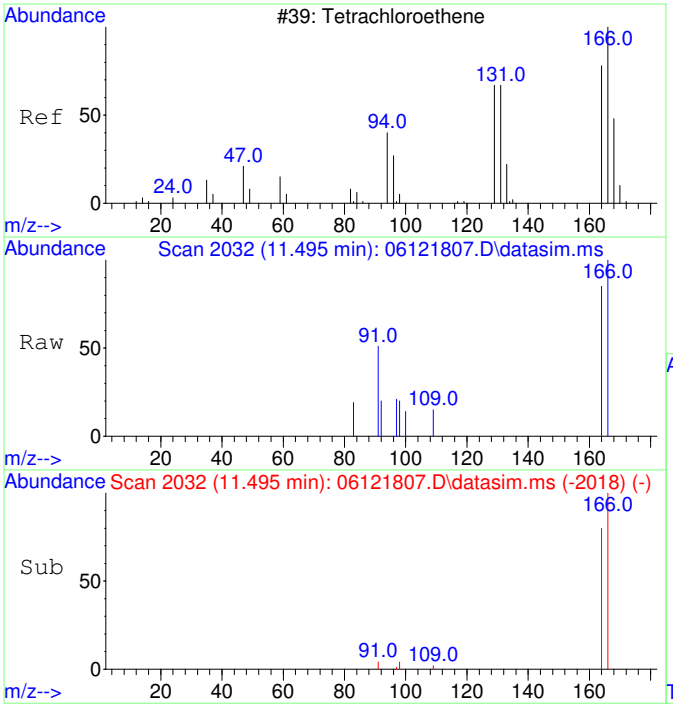


#14
1,1,2-Trichloroethane
Concen: 153.15 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 97 Resp: 521

Ion	Ratio	Lower	Upper
97	100		
83	92.7	53.4	113.4

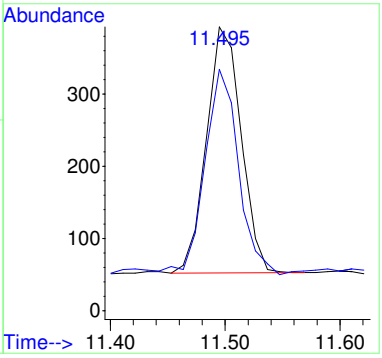


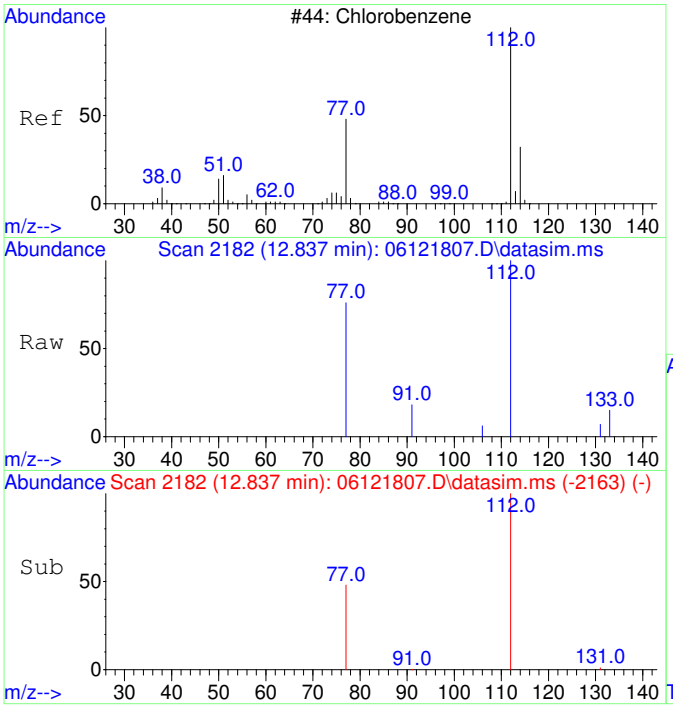


#15
Tetrachloroethene
Concen: 154.41 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:166 Resp: 716

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

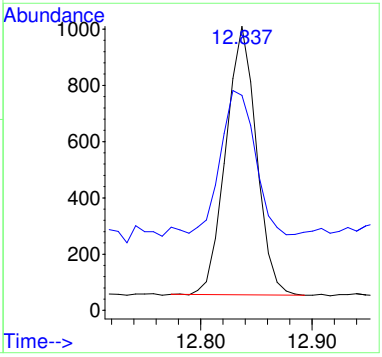


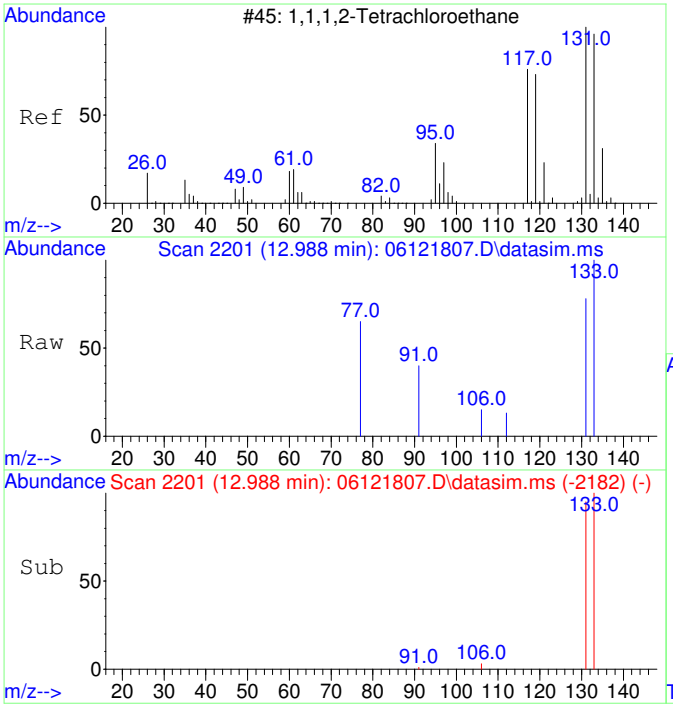


#16
Chlorobenzene
Concen: 155.19 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:112 Resp: 1823

Ion	Ratio	Lower	Upper
112	100		
77	66.6	28.1	88.1

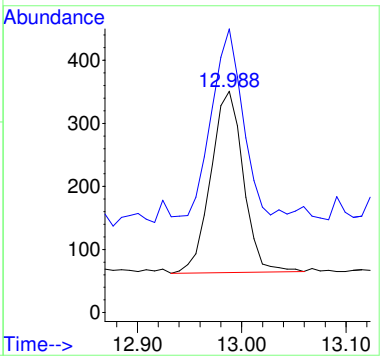


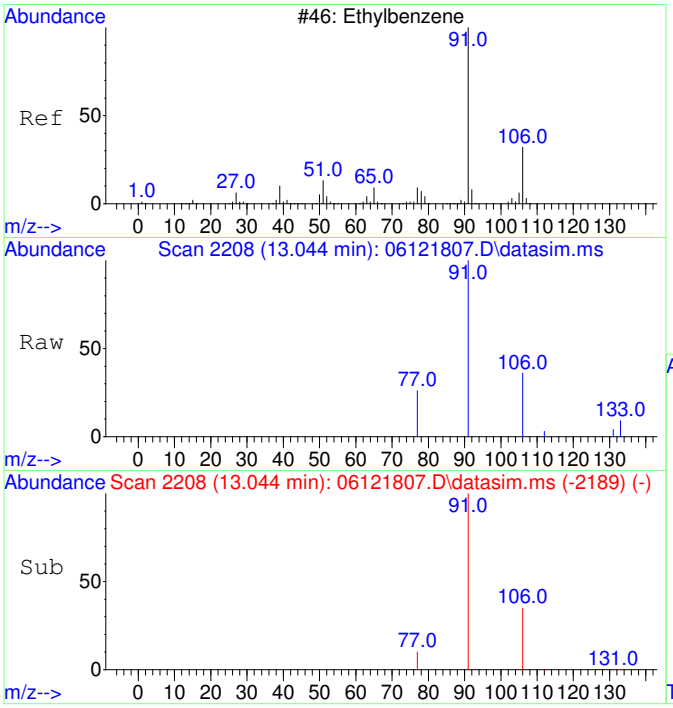


#17
1,1,1,2-Tetrachloroethane
Concen: 156.28 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:131 Resp: 623

Ion	Ratio	Lower	Upper
131	100		
133	106.6	66.2	126.2

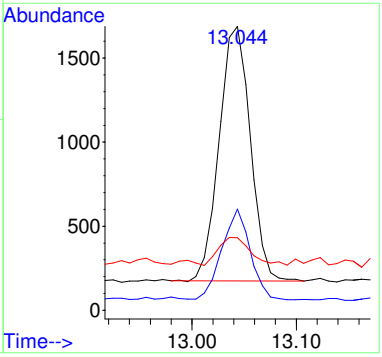


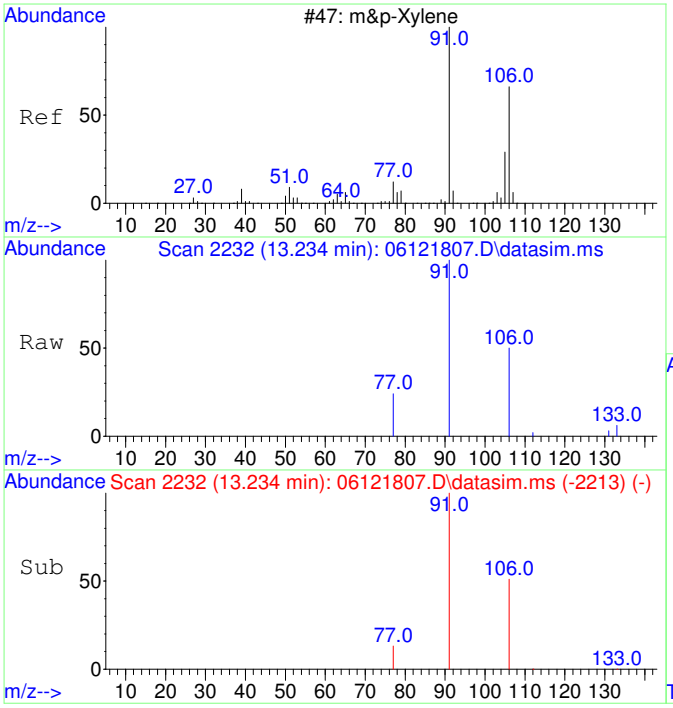


#18
Ethylbenzene
Concen: 158.83 ug/L
RT: 13.044 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 3137

Ion	Ratio	Lower	Upper
91	100		
106	31.9	2.8	62.8
77	11.8	0.0	38.6

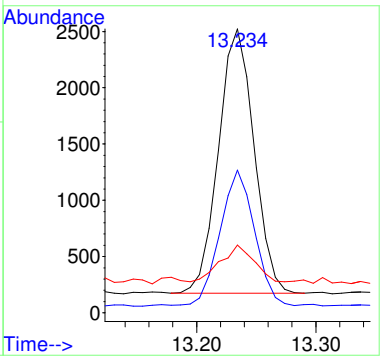


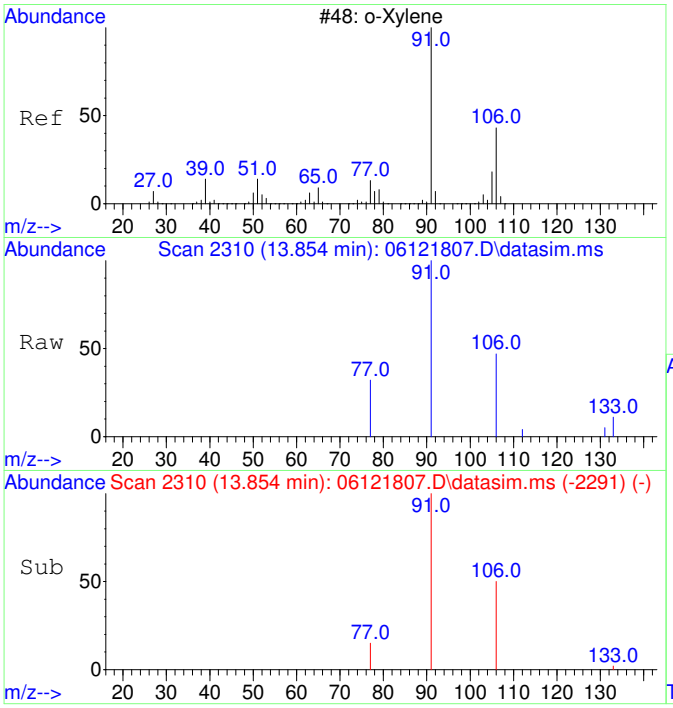


#19
m&p-Xylene
Concen: 320.39 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 4884

Ion	Ratio	Lower	Upper
91	100		
106	49.6	21.2	81.2
77	12.9	0.0	42.9

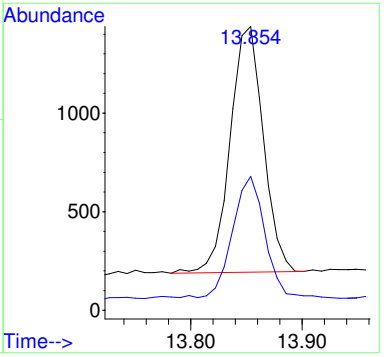


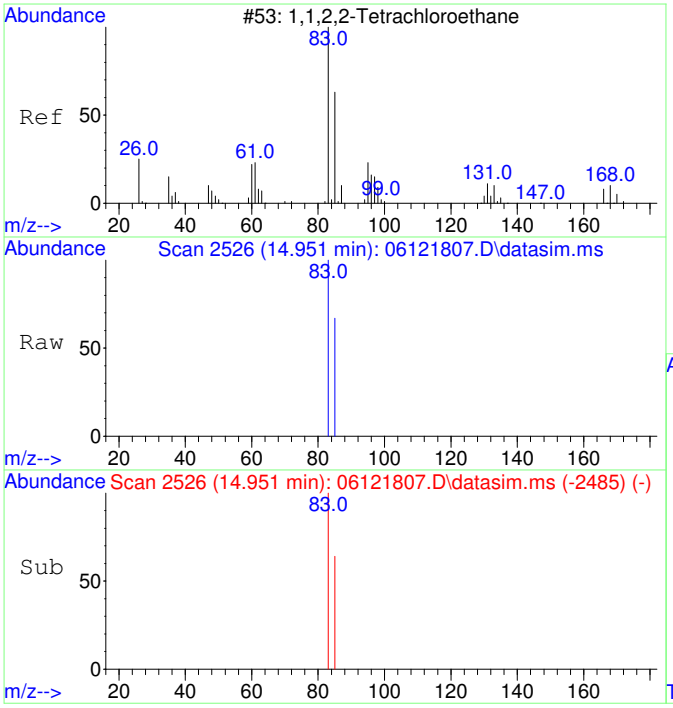


#20
o-Xylene
Concen: 159.68 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2578

Ion	Ratio	Lower	Upper
91	100		
106	48.3	18.3	78.3

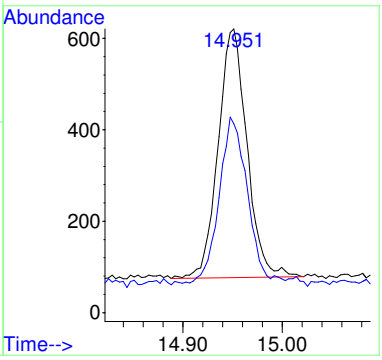


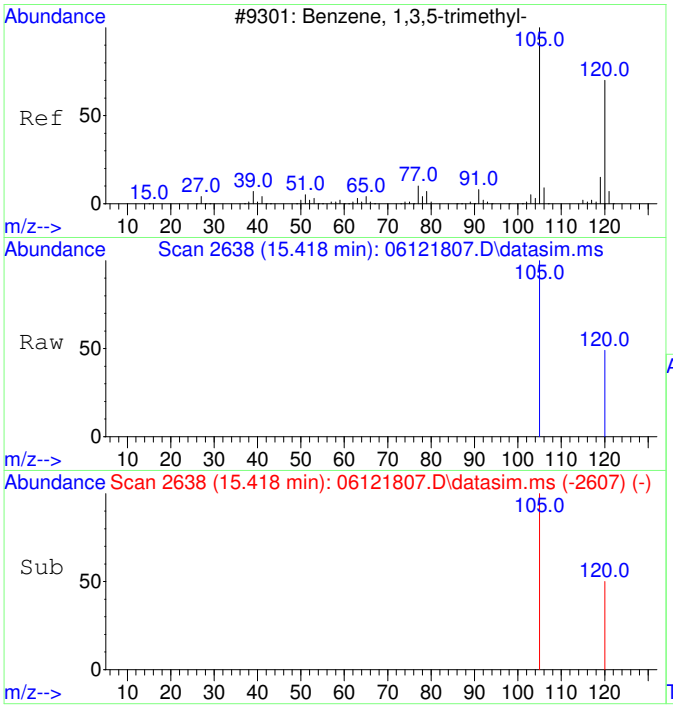


#21
1,1,2,2-Tetrachloroethane
Concen: 157.77 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 1097

Ion	Ratio	Lower	Upper
83	100		
85	66.5	34.4	94.4

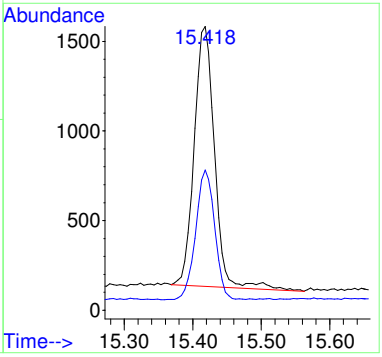


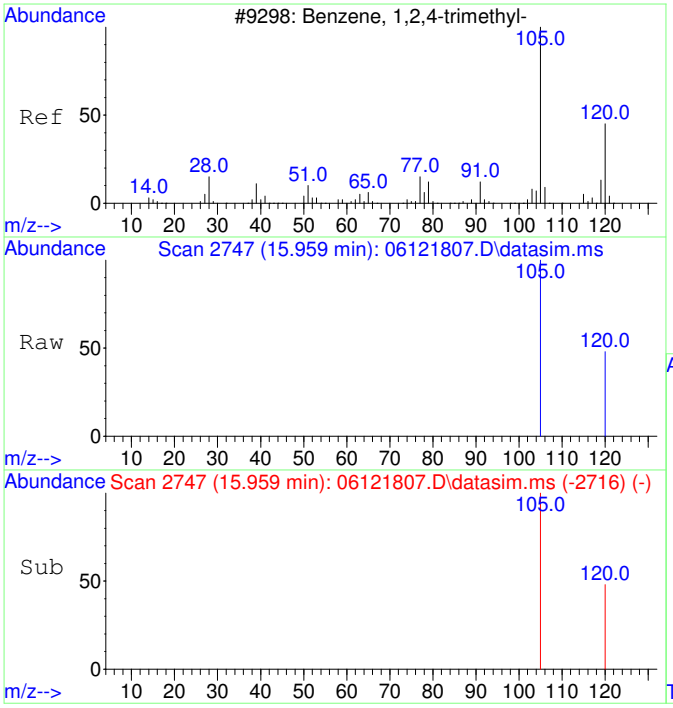


#22
1,3,5-Trimethylbenzene
Concen: 163.79 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 2992

Ion	Ratio	Lower	Upper
105	100		
120	46.5	19.1	79.1

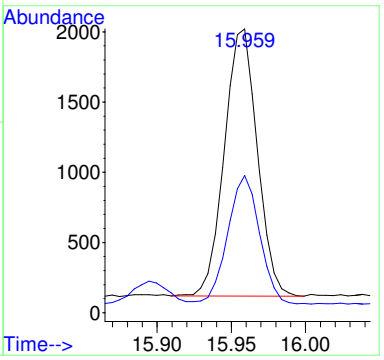


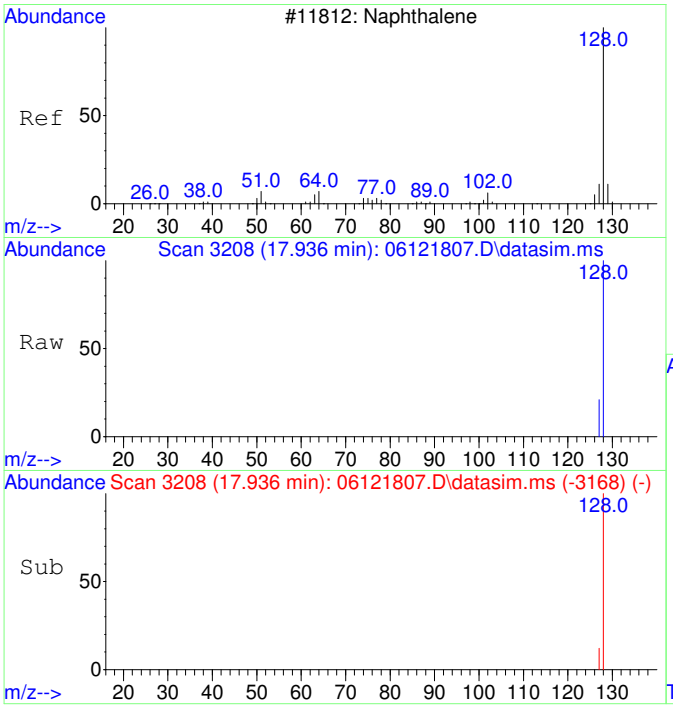


#23
1,2,4-Trimethylbenzene
Concen: 161.01 ug/L
RT: 15.959 min Scan# 2747
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 2942

Ion	Ratio	Lower	Upper
105	100		
120	45.2	15.5	75.5

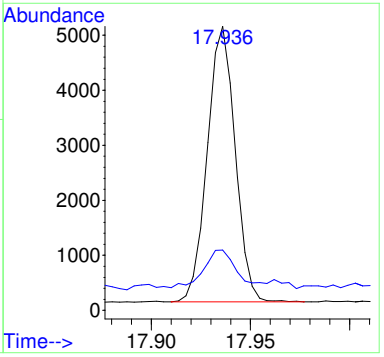


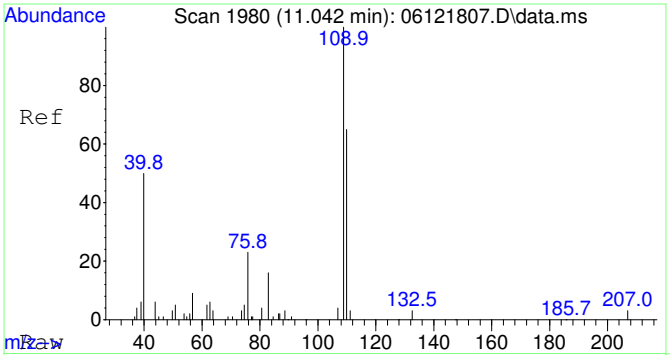


#24
Naphthalene
Concen: 163.10 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:128 Resp: 4891

Ion	Ratio	Lower	Upper
128	100		
127	18.1	0.0	42.5

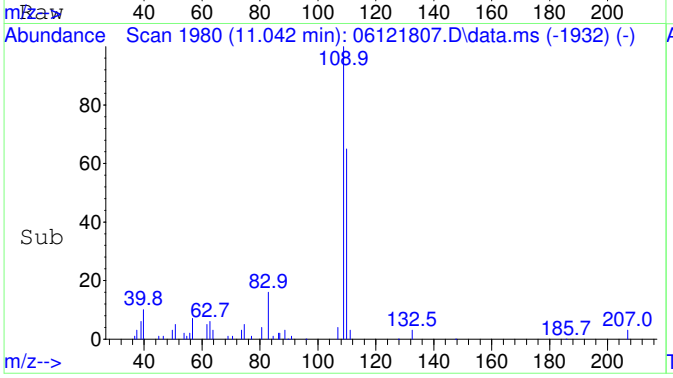


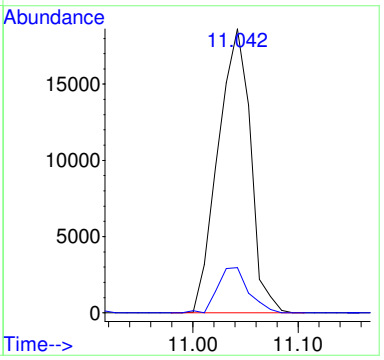


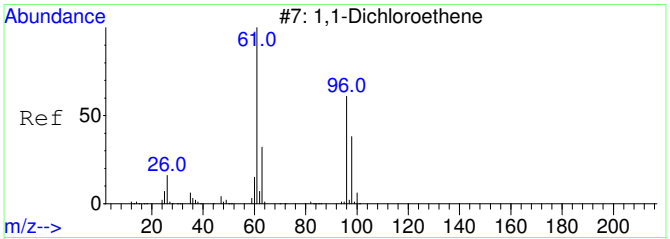
#25
2-Fluorotoluene SCAN
Concen: 4541.08 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:109 Resp: 39990

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	45.7



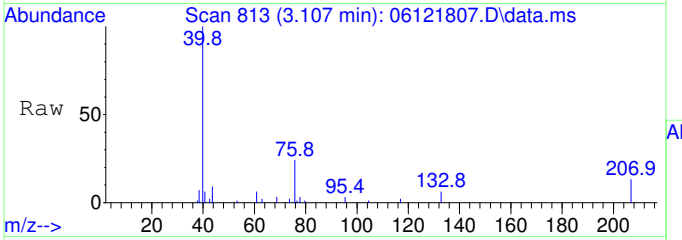


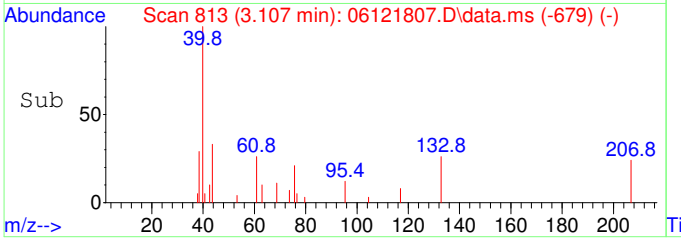


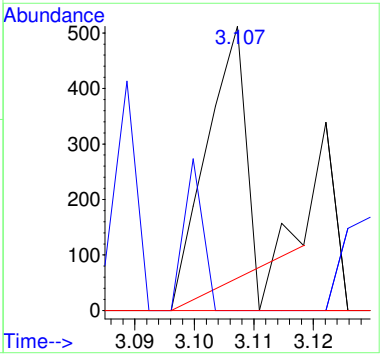
#26
1,1-Dichloroethene SCAN
Concen: 100.57 ug/L
RT: 3.107 min Scan# 813
Delta R.T. -0.003 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

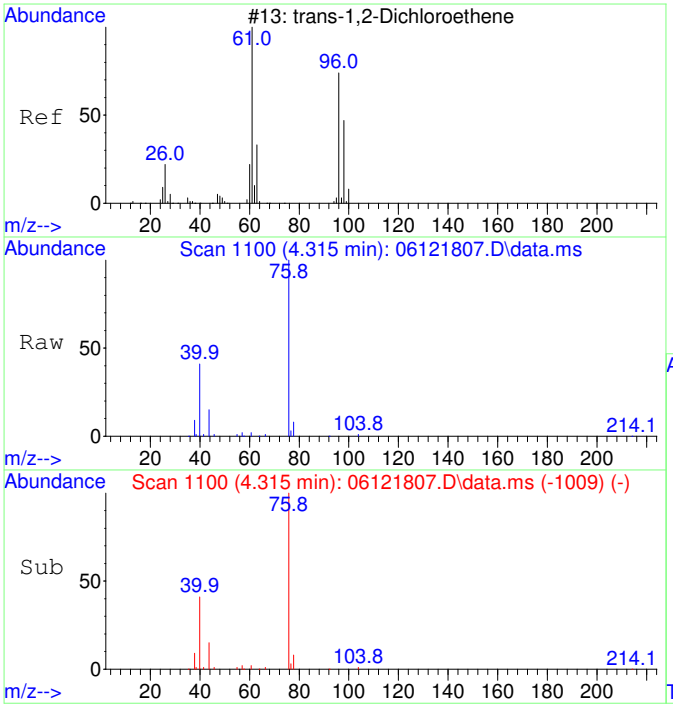
Tgt Ion: 61 Resp: 221

Ion	Ratio	Lower	Upper
61	100		
96	27.6	23.8	83.8
98	0.0	8.8	68.8#





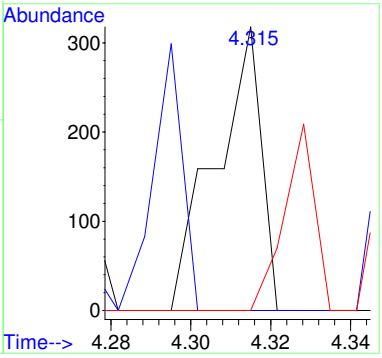


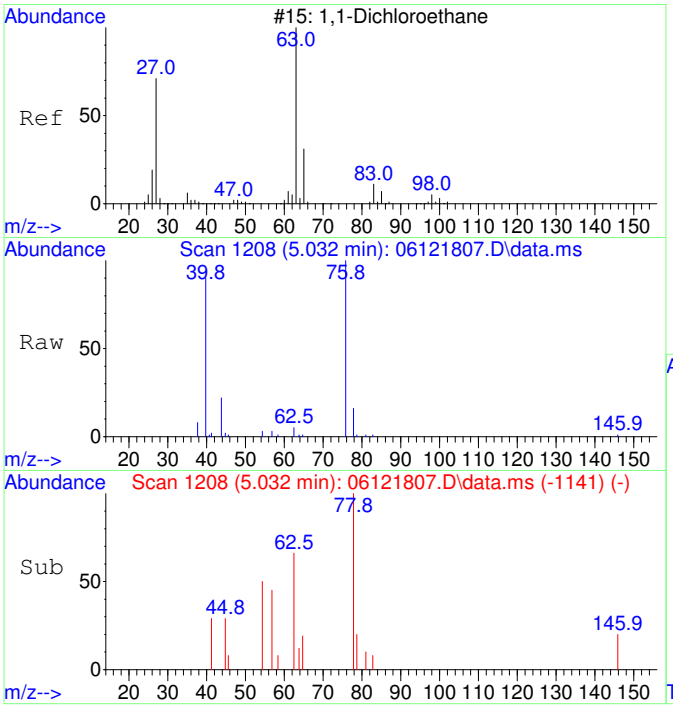


#27
trans-1,2-Dichloroethene SCAN
Concen: 98.89 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. -0.020 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 253

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	43.9	12.7	72.7

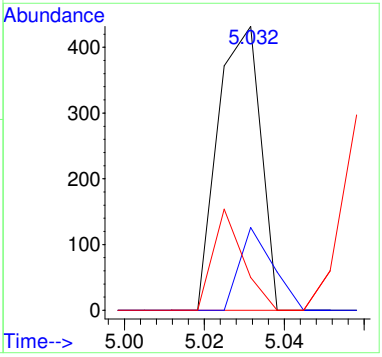


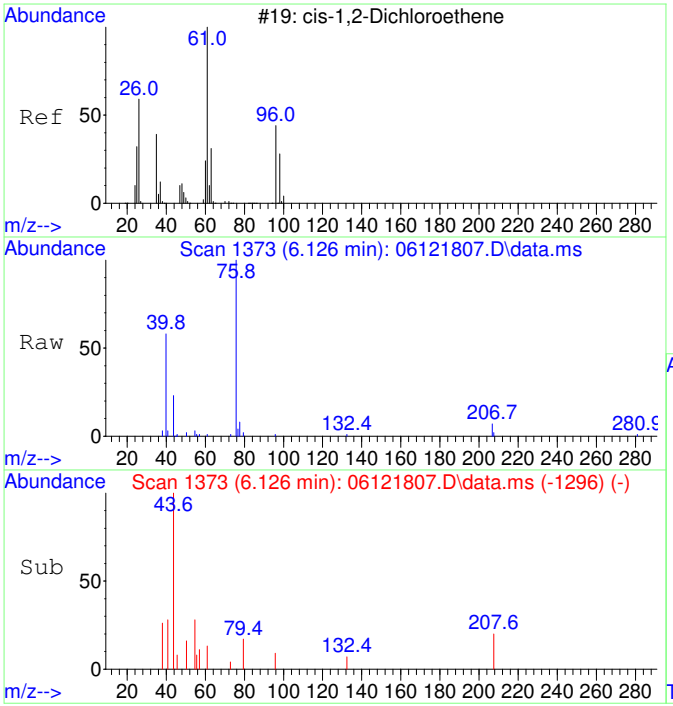


#28
1,1-Dichloroethane SCAN
Concen: 98.32 ug/L
RT: 5.032 min Scan# 1208
Delta R.T. -0.053 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 63 Resp: 320

Ion	Ratio	Lower	Upper
63	100		
65	22.8	7.5	67.5
83	25.3	0.0	34.3

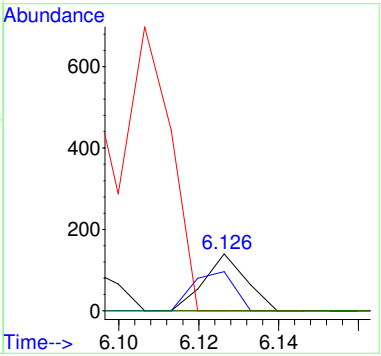


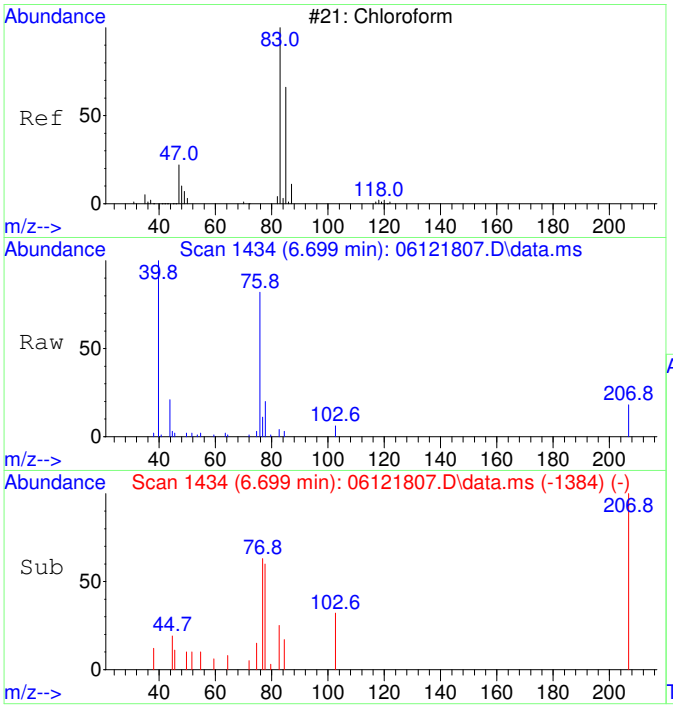


#29
cis-1,2-Dichloroethene SCAN
Concen: 36.24 ug/L
RT: 6.126 min Scan# 1373
Delta R.T. 0.013 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 102

Ion	Ratio	Lower	Upper
61	100		
96	68.6	28.2	88.2
98	0.0	14.1	74.1#
63	0.0	1.5	61.5#

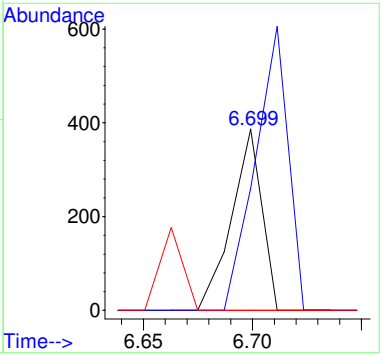


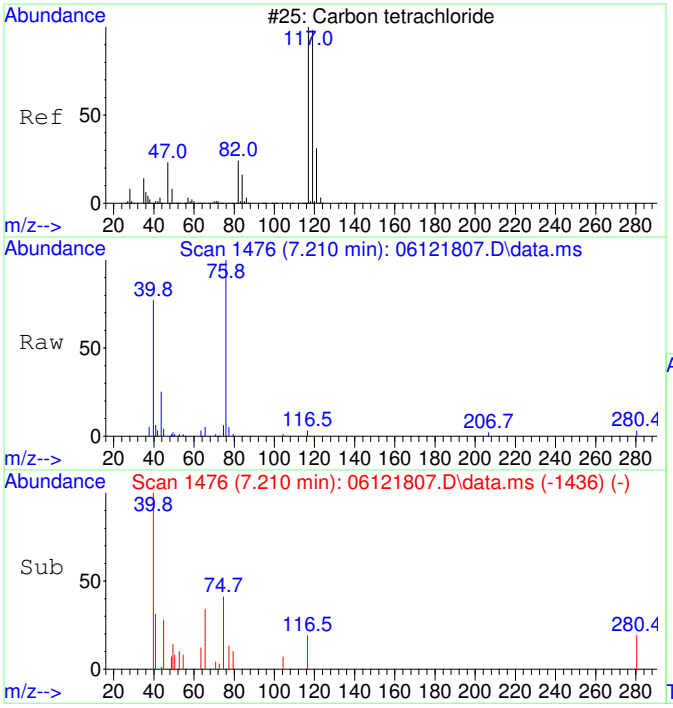


#30
Chloroform SCAN
Concen: 108.25 ug/L
RT: 6.699 min Scan# 1434
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 374

Ion	Ratio	Lower	Upper
83	100		
85	169.0	32.6	92.6#
47	0.0	0.0	57.9

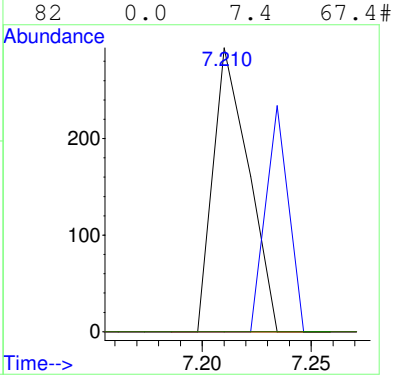


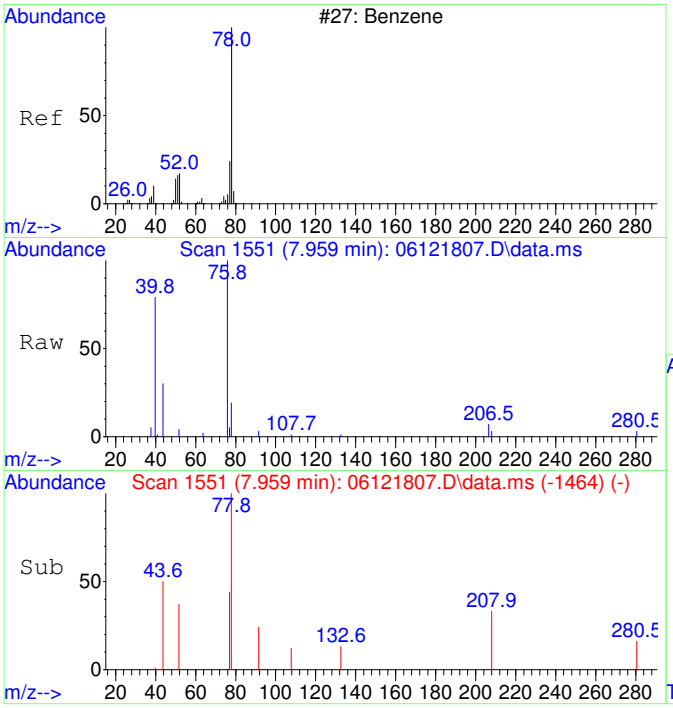


#32
Carbon tetrachloride SCAN
Concen: 109.56 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:117 Resp: 332

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

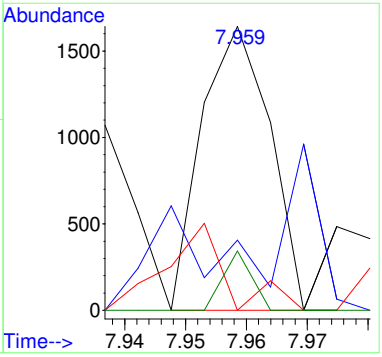


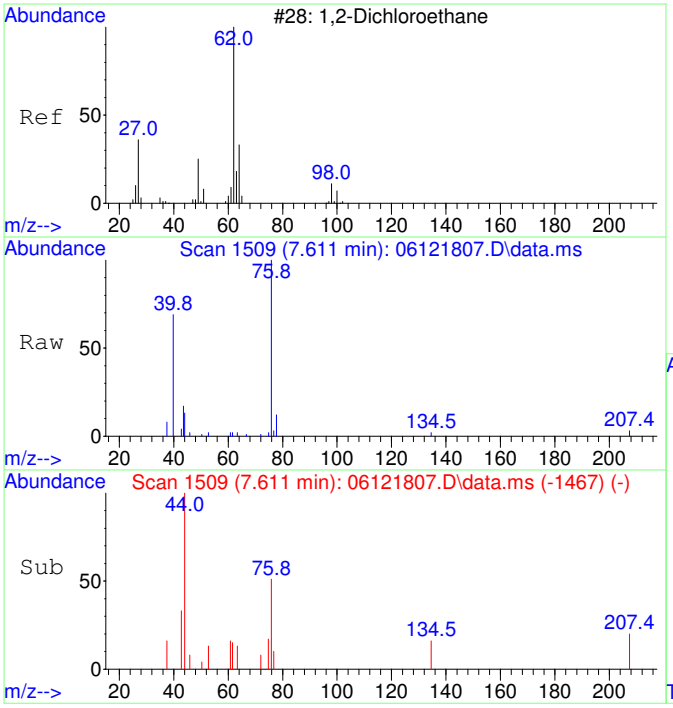


#33
Benzene SCAN
Concen: 140.11 ug/L
RT: 7.959 min Scan# 1551
Delta R.T. 0.396 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 78 Resp: 1285

Ion	Ratio	Lower	Upper
78	100		
77	19.2	3.0	63.0
51	27.5	0.0	56.4
52	8.7	0.0	48.0

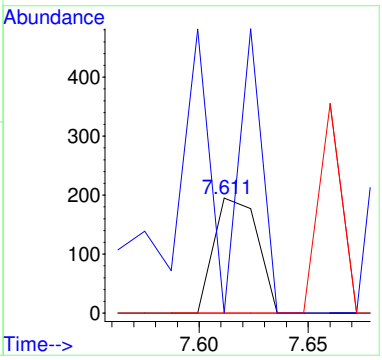


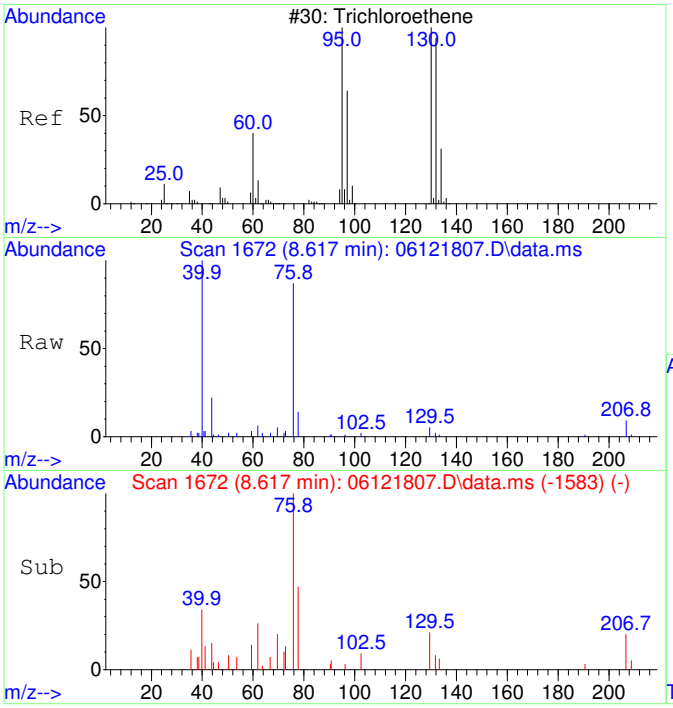


#34
1,2-Dichloroethane SCAN
Concen: 86.64 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 62 Resp: 271

Ion	Ratio	Lower	Upper
62	100		
64	229.9	1.2	61.2#
49	0.0	10.4	70.4#

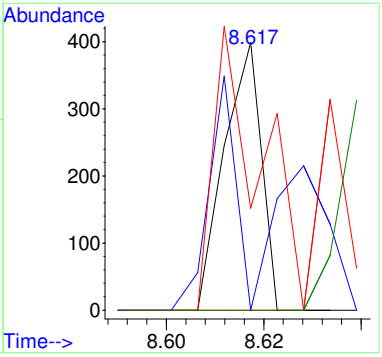


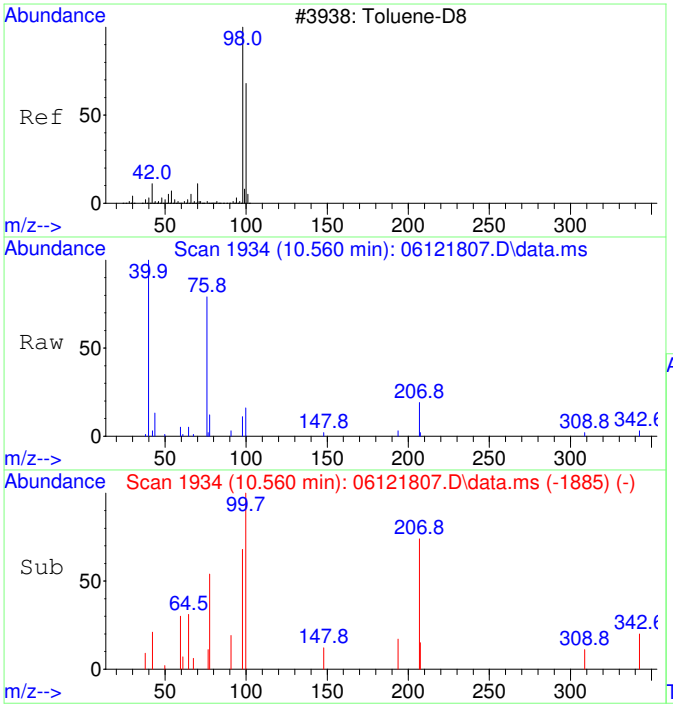


#35
Trichloroethene SCAN
Concen: 93.57 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. -0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:130 Resp: 210

Ion	Ratio	Lower	Upper
130	100		
95	62.9	70.5	130.5#
132	134.8	63.8	123.8#
97	0.0	34.8	94.8#

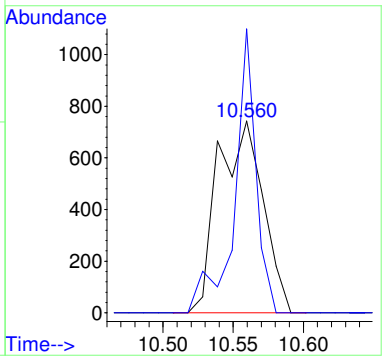


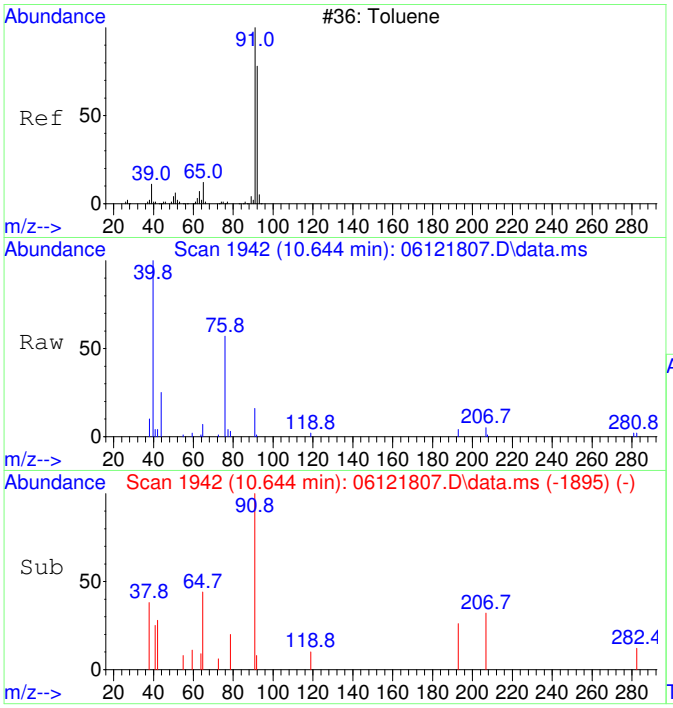


#36
Toluene-d8 SCAN
Concen: 209.90 ug/L
RT: 10.560 min Scan# 1934
Delta R.T. 0.011 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 98 Resp: 1671

Ion	Ratio	Lower	Upper
98	100		
100	70.0	39.5	99.5

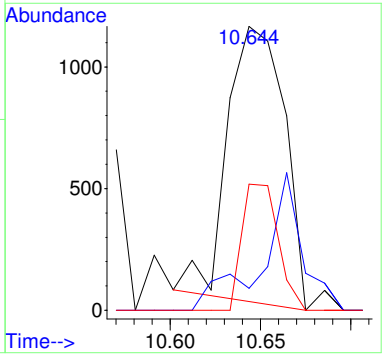


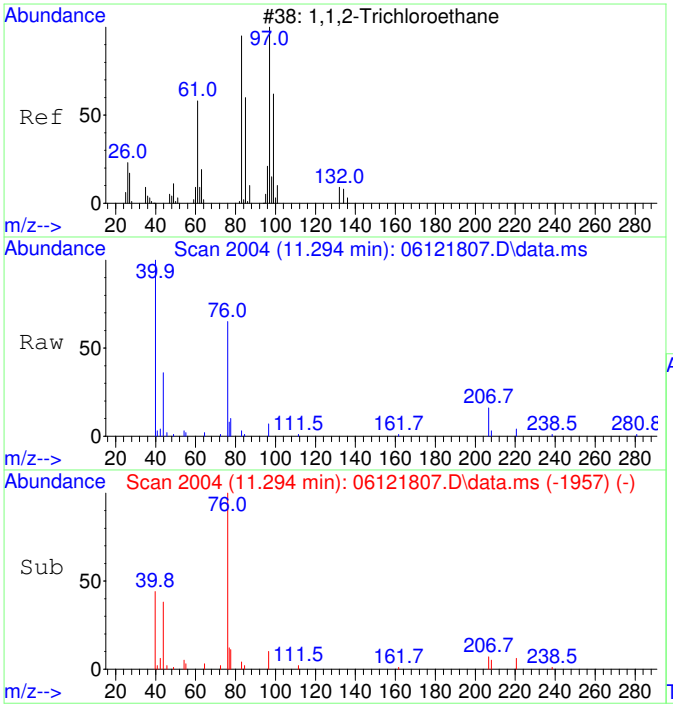


#37
Toluene SCAN
Concen: 243.87 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. -0.010 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2480

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.6	86.6#
65	29.4	0.0	42.3

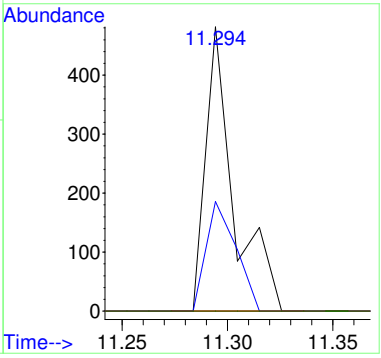


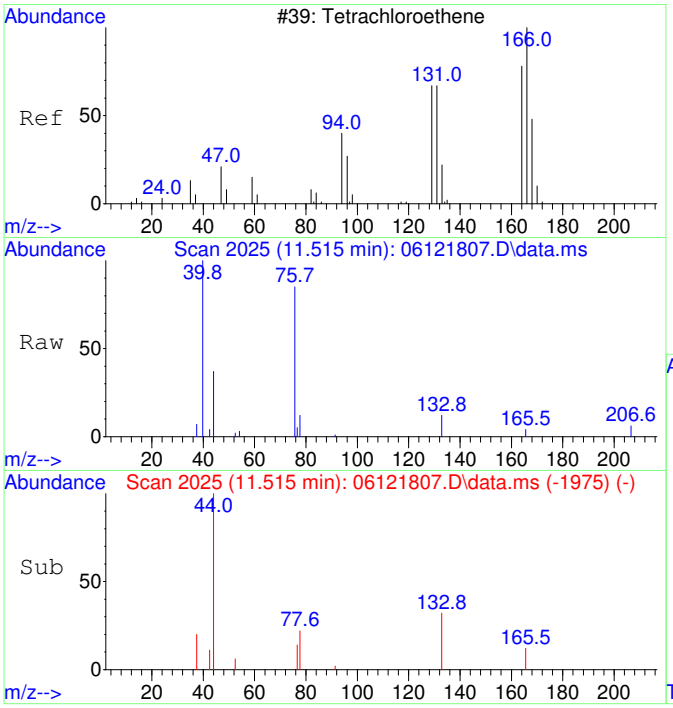


#38
1,1,2-Trichloroethane SCAN
Concen: 228.88 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 97 Resp: 446

Ion	Ratio	Lower	Upper
97	100		
83	41.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

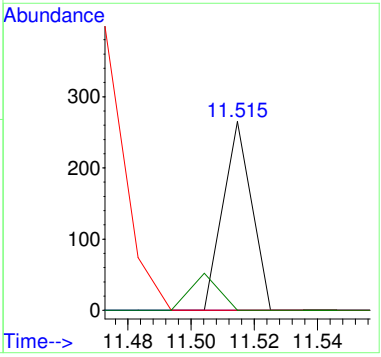


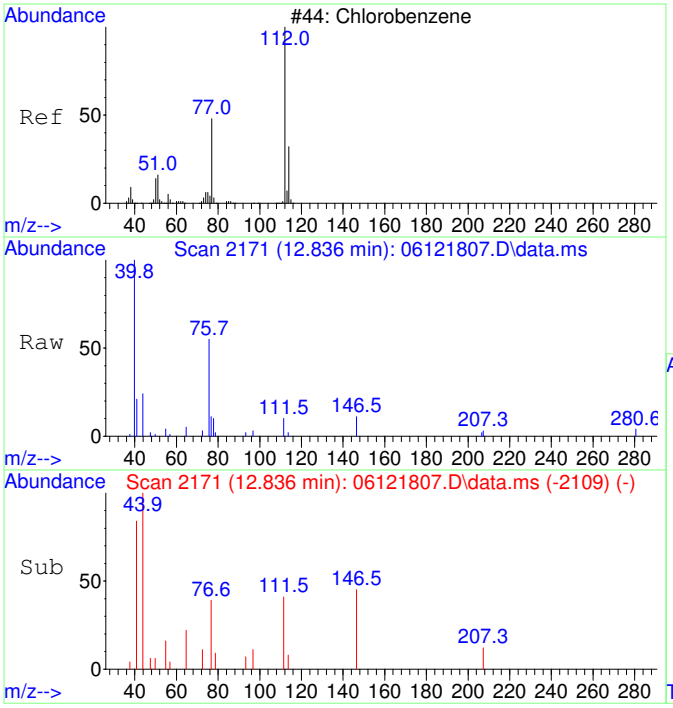


#39
Tetrachloroethene SCAN
Concen: 74.84 ug/L
RT: 11.515 min Scan# 2025
Delta R.T. 0.021 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:166 Resp: 167

Ion	Ratio	Lower	Upper
166	100		
164	0.0	43.3	103.3#
131	0.0	35.6	95.6#
129	0.0	36.6	96.6#

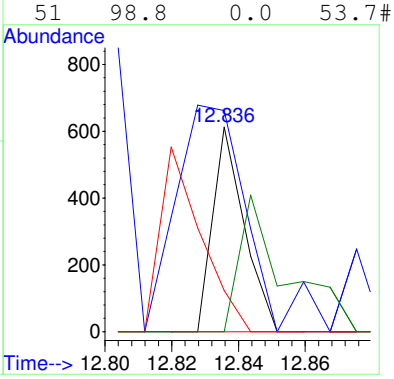


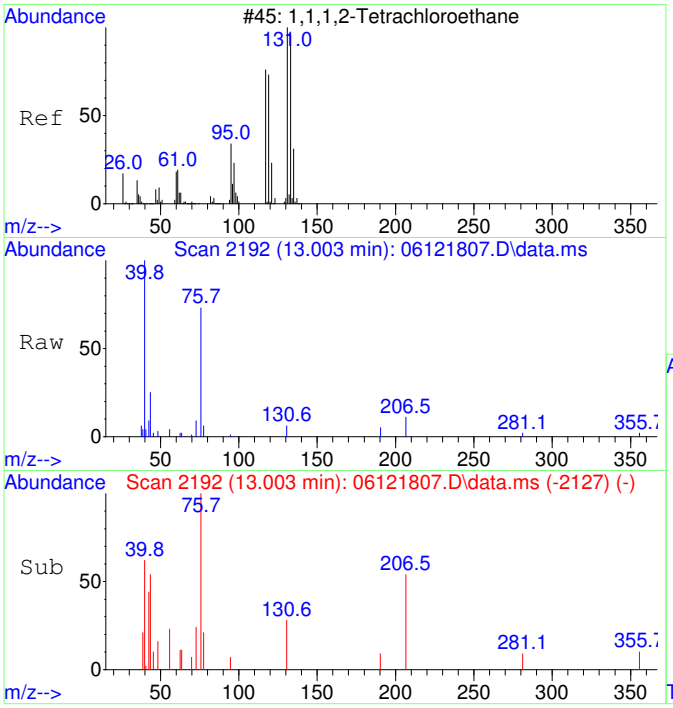


#40
Chlorobenzene SCAN
Concen: 64.84 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:112 Resp: 400

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.4	88.4#
114	0.0	0.0	59.5
51	98.8	0.0	53.7#

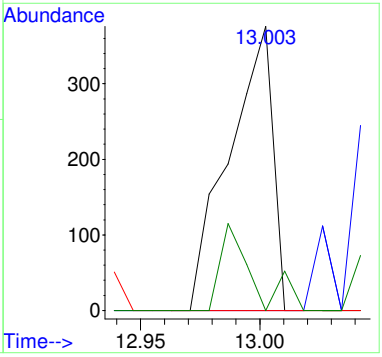


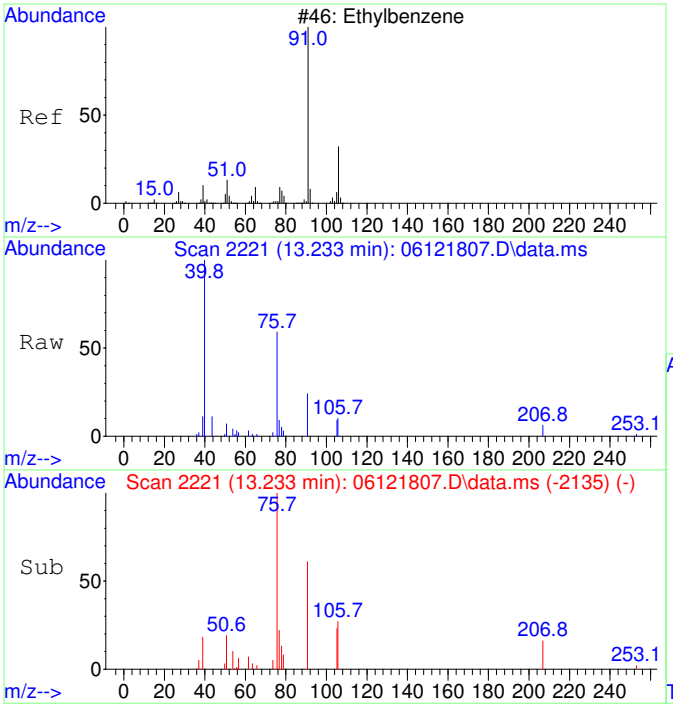


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 218.90 ug/L
RT: 13.003 min Scan# 2192
Delta R.T. 0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:131 Resp: 482

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	22.6	28.2	88.2#

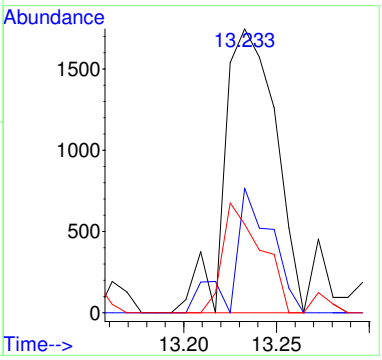


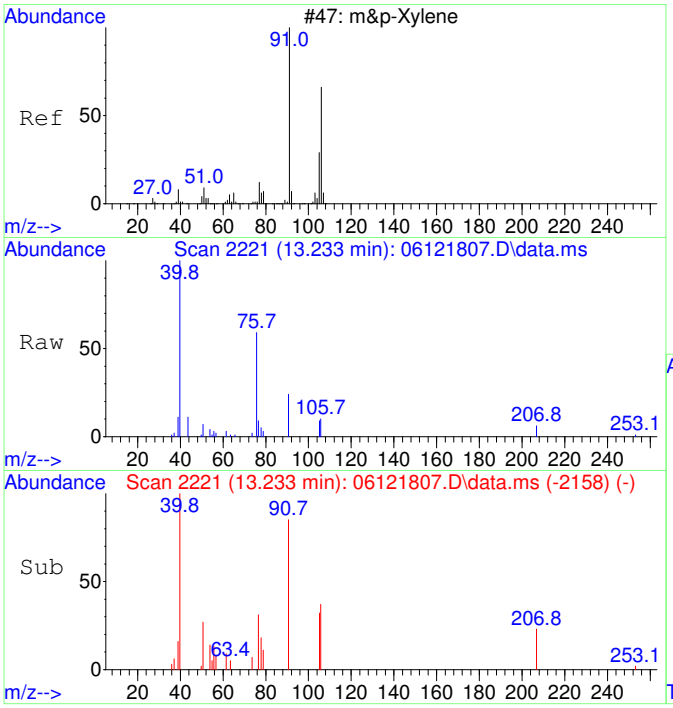


#42
Ethylbenzene SCAN
Concen: 286.28 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.183 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 3384

Ion	Ratio	Lower	Upper
91	100		
106	32.9	3.2	63.2
51	29.4	0.0	40.1

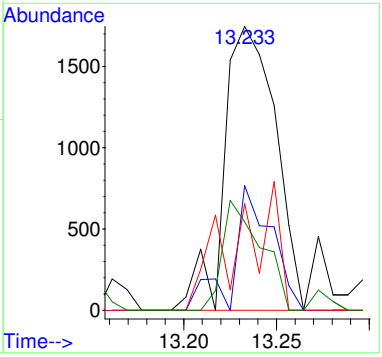


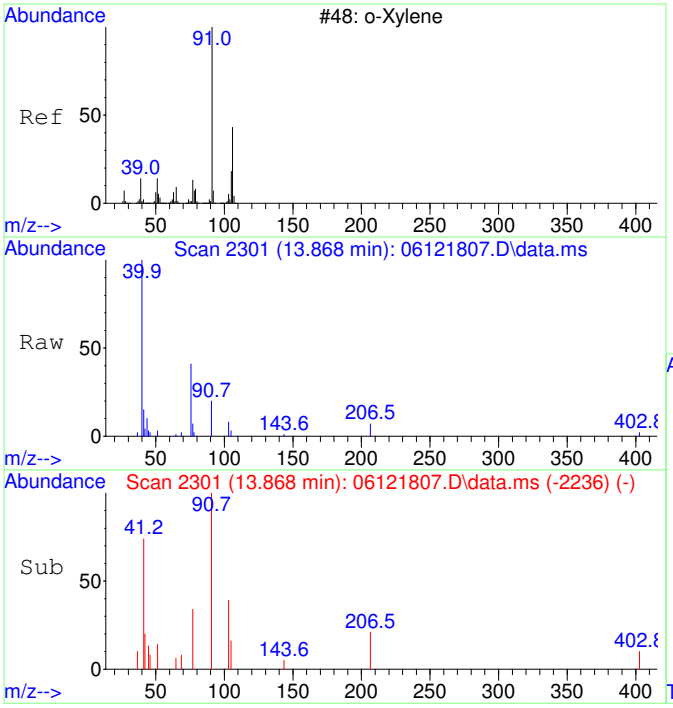


#43
m&p-Xylene SCAN
Concen: 206.25 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 3384

Ion	Ratio	Lower	Upper
91	100		
106	32.9	20.1	80.1
105	10.9	0.0	51.1
51	29.4	0.0	40.7

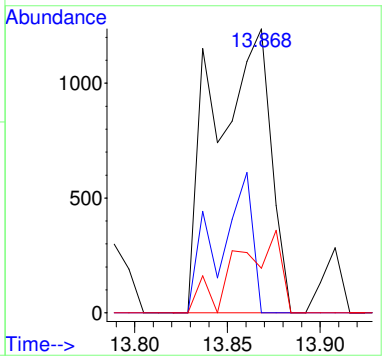


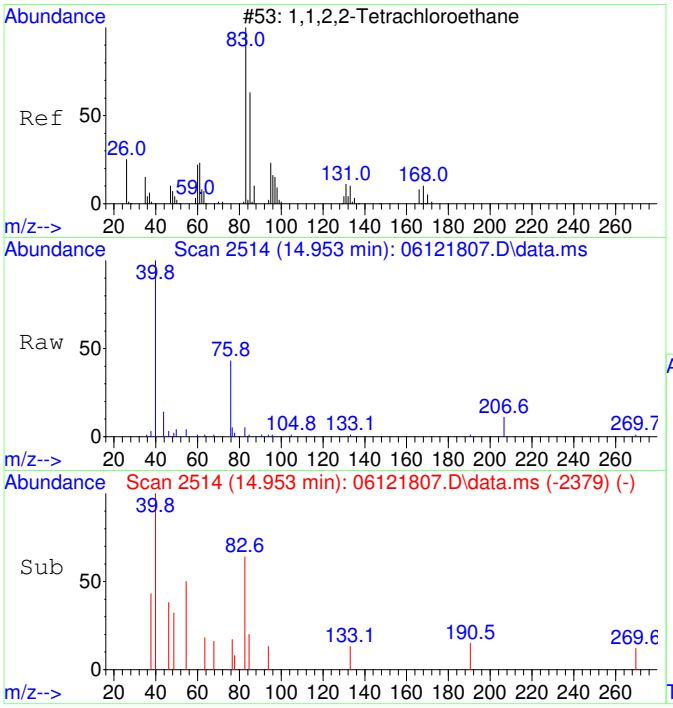


#44
o-Xylene SCAN
Concen: 282.06 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2634

Ion	Ratio	Lower	Upper
91	100		
106	29.2	21.3	81.3
105	22.6	0.0	55.2

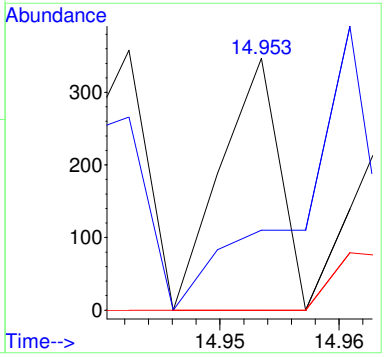


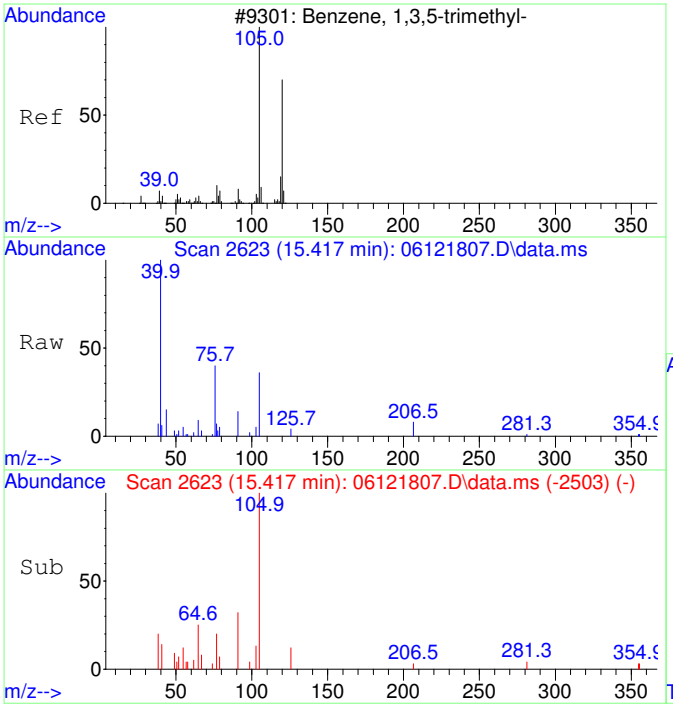


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 26.89 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 119

Ion	Ratio	Lower	Upper
83	100		
85	0.0	31.6	91.6#
95	0.0	0.0	49.0

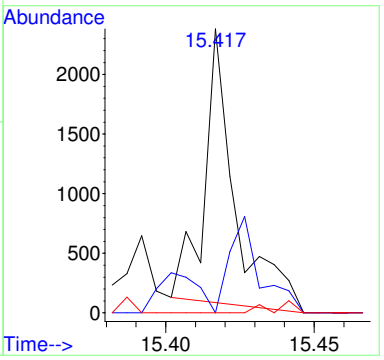


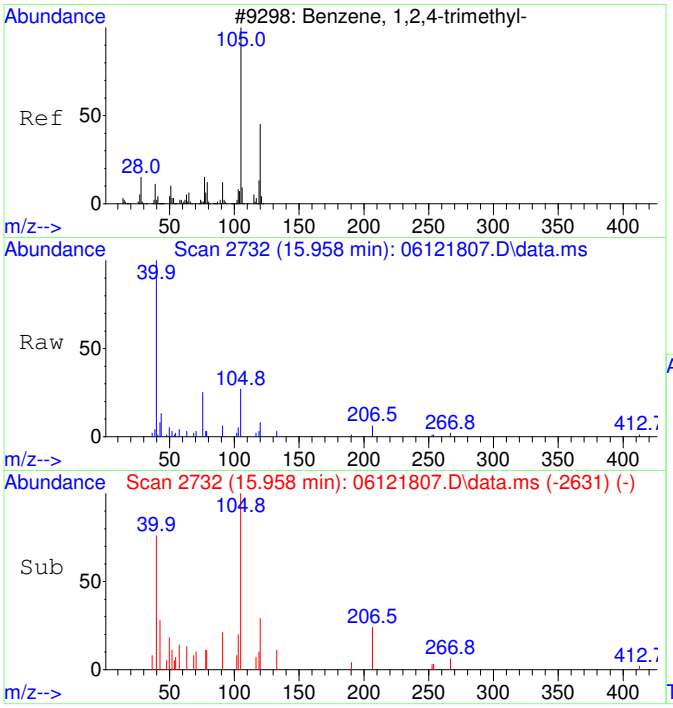


#46
1,3,5-Trimethylbenzene SCAN
Concen: 178.20 ug/L
RT: 15.417 min Scan# 2623
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 1650

Ion	Ratio	Lower	Upper
105	100		
120	35.2	16.8	76.8
119	0.0	0.0	41.5

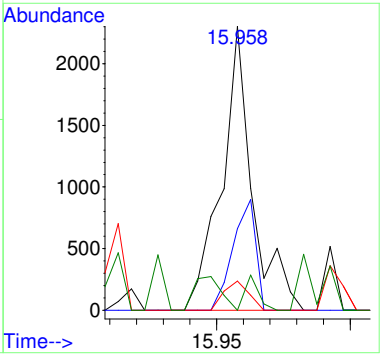


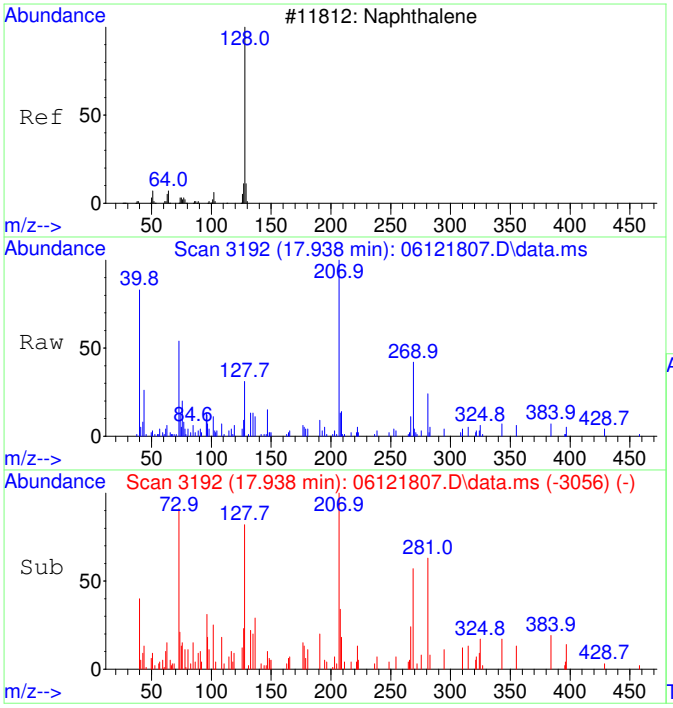


#47
1,2,4-Trimethylbenzene SCAN
Concen: 194.32 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 1844

Ion	Ratio	Lower	Upper
105	100		
120	28.9	15.4	75.4
119	8.4	0.0	41.7
77	5.5	0.0	42.0

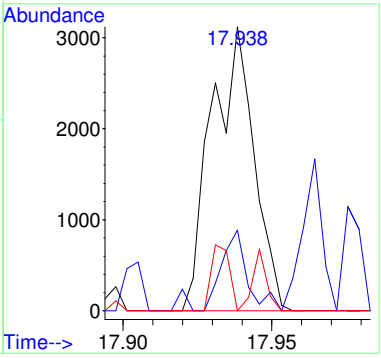




#48
Naphthalene SCAN
Concen: 229.85 ug/L
RT: 17.938 min Scan# 3192
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:128 Resp: 3112

Ion	Ratio	Lower	Upper
128	100		
127	17.1	0.0	43.9
129	7.0	0.0	40.5



Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121807.D
Acq On : 12 Jun 2018 15:19
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL5
Misc : 1823102 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 17:04:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration

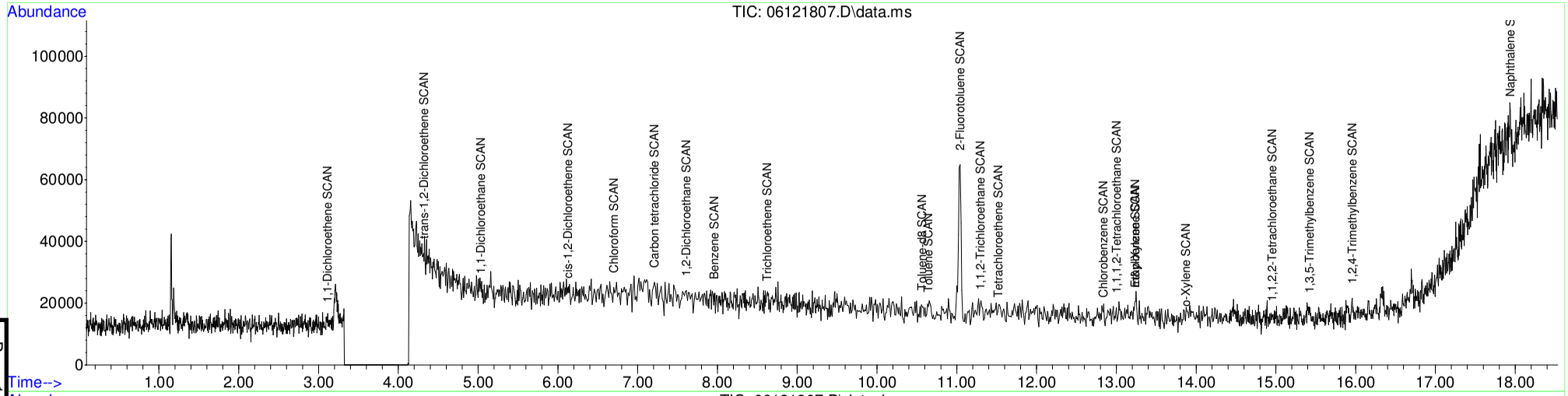
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	75573	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	1881	153.23 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	3.06%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.108	61	941	291.04 ug/L	68
3] trans-1,2-Dichloroethene	4.310	61	514	152.10 ug/L	94
4] 1,1-Dichloroethane	5.073	63	648	154.06 ug/L	89
5] cis-1,2-Dichloroethene	6.108	61	635	153.04 ug/L	100
6] Chloroform	6.688	83	686	153.54 ug/L	89
7] 1,1,1-Trichloroethane	6.944	97	647	147.13 ug/L	95
8] Carbon tetrachloride	7.211	117	644	154.60 ug/L	92
9] Benzene	7.552	78	2116	174.39 ug/L	69
10] 1,2-Dichloroethane	7.588	62	620	158.54 ug/L	71
11] Trichloroethene	8.624	130	510	152.93 ug/L	95
13] Toluene	10.645	91	2599	157.91 ug/L	98
14] 1,1,2-Trichloroethane	11.296	97	521	153.15 ug/L	90
15] Tetrachloroethene	11.495	166	716	154.41 ug/L	99
16] Chlorobenzene	12.837	112	1823	155.19 ug/L	89
17] 1,1,1,2-Tetrachloroethane	12.988	131	623	156.28 ug/L	89
18] Ethylbenzene	13.044	91	3137	158.83 ug/L	97
19] m&p-Xylene	13.234	91	4884	320.39 ug/L	98
20] o-Xylene	13.854	91	2578	159.68 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.951	83	1097	157.77 ug/L	97
22] 1,3,5-Trimethylbenzene	15.418	105	2992	163.79 ug/L	96
23] 1,2,4-Trimethylbenzene	15.959	105	2942	161.01 ug/L	100
24] Naphthalene	17.936	128	4891	163.10 ug/L	86
25) 2-Fluorotoluene SCAN	11.042	109	39990	4541.08 ug/L	99
26) 1,1-Dichloroethene SCAN	3.107	61	221	100.57 ug/L #	52
27) trans-1,2-Dichloroethe...	4.315	61	253	98.89 ug/L #	48
28) 1,1-Dichloroethane SCAN	5.032	63	320	98.32 ug/L	71
29) cis-1,2-Dichloroethene...	6.126	61	102	36.24 ug/L #	58
30) Chloroform SCAN	6.699	83	374	108.25 ug/L #	1
32) Carbon tetrachloride SCAN	7.210	117	332	109.56 ug/L #	13
33) Benzene SCAN	7.959	78	1285	140.11 ug/L	84
34) 1,2-Dichloroethane SCAN	7.611	62	271	86.64 ug/L #	1
35) Trichloroethene SCAN	8.617	130	210	93.57 ug/L #	49
36) Toluene-d8 SCAN	10.560	98	1671	209.90 ug/L	99
37) Toluene SCAN	10.644	91	2480	243.87 ug/L #	29
38) 1,1,2-Trichloroethane ...	11.294	97	446	228.88 ug/L #	27
39) Tetrachloroethene SCAN	11.515	166	167	74.84 ug/L #	15
40) Chlorobenzene SCAN	12.836	112	400	64.84 ug/L #	12
41) 1,1,1,2-Tetrachloroeth...	13.003	131	482	218.90 ug/L #	22
42) Ethylbenzene SCAN	13.233	91	3384	286.28 ug/L	87
43) m&p-Xylene SCAN	13.233	91	3384	206.25 ug/L	73
44) o-Xylene SCAN	13.868	91	2634	282.06 ug/L	77
45) 1,1,2,2-Tetrachloroeth...	14.953	83	119	26.89 ug/L #	29
46) 1,3,5-Trimethylbenzene...	15.417	105	1650	178.20 ug/L #	80
47) 1,2,4-Trimethylbenzene...	15.958	105	1844	194.32 ug/L	79
48) Naphthalene SCAN	17.938	128	3112	229.85 ug/L	92

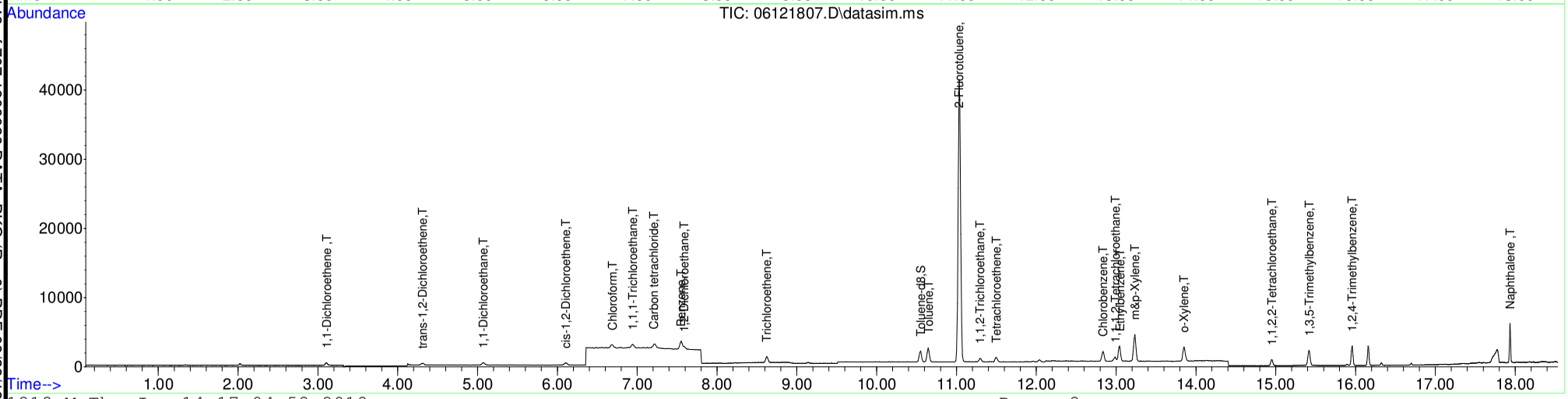
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121807.D
Acq On : 12 Jun 2018 15:19
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL5
Misc : 1823102 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 17:04:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration





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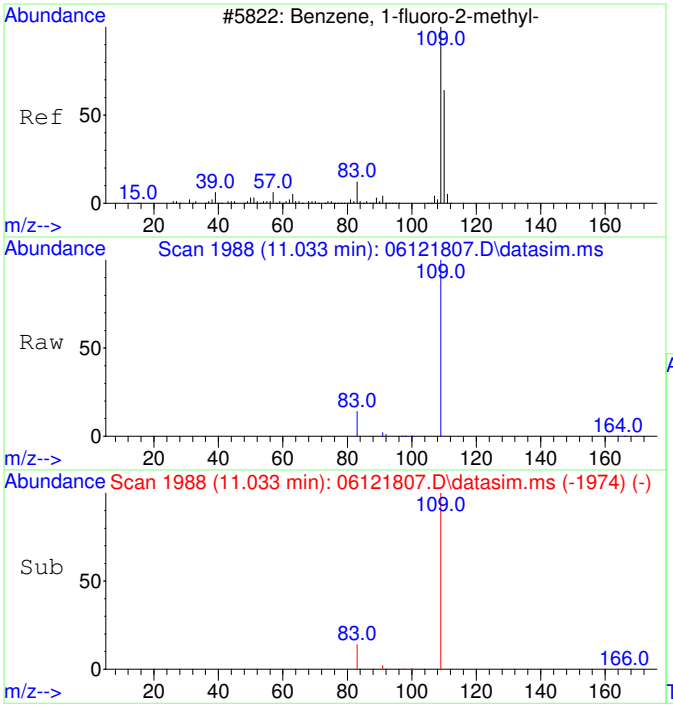
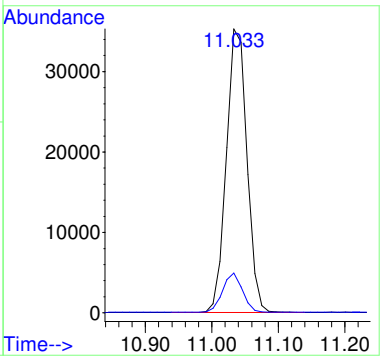
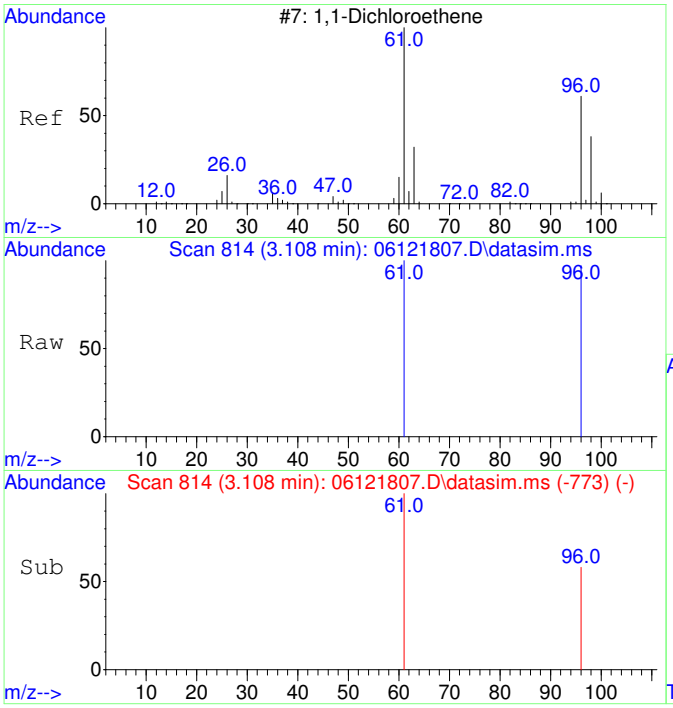


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:109 Resp: 75573

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	44.7

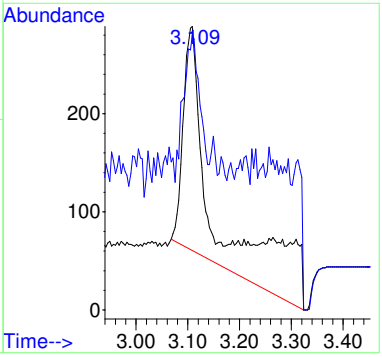




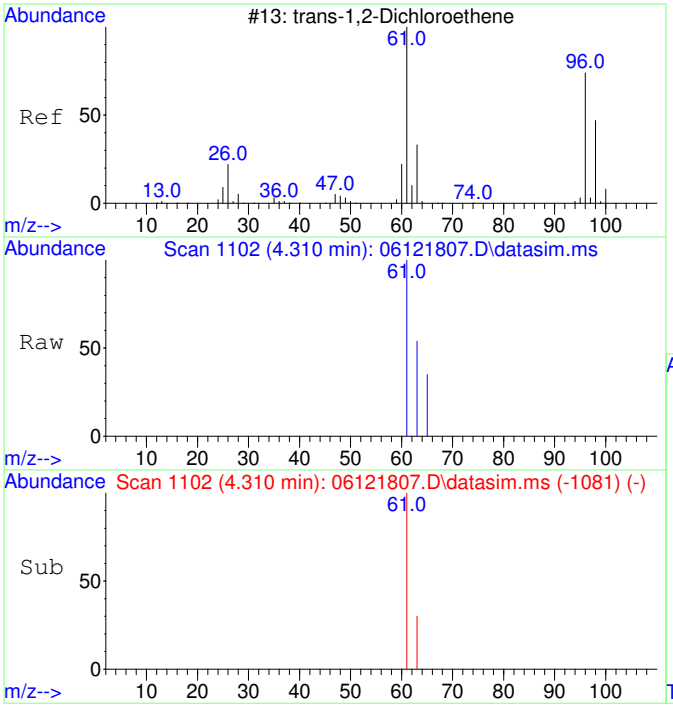
#2
1,1-Dichloroethene
Concen: 291.04 ug/L
RT: 3.108 min Scan# 814
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 941

Ion	Ratio	Lower	Upper
61	100		
96	34.4	28.7	88.7



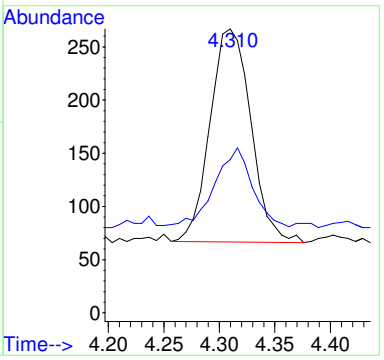
Before MI:
IMPROPER
BASELINE

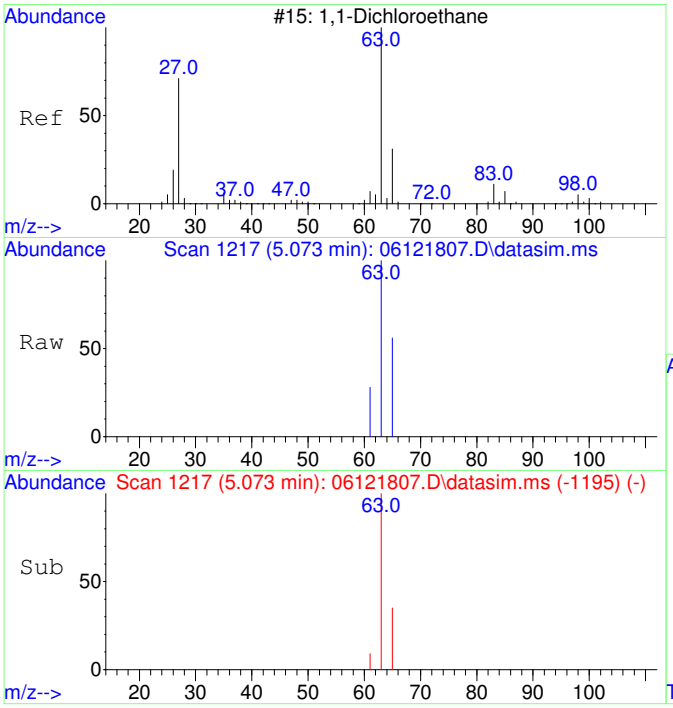


#3
trans-1,2-Dichloroethene
Concen: 152.10 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 514

Ion	Ratio	Lower	Upper
61	100		
63	35.2	2.0	62.0

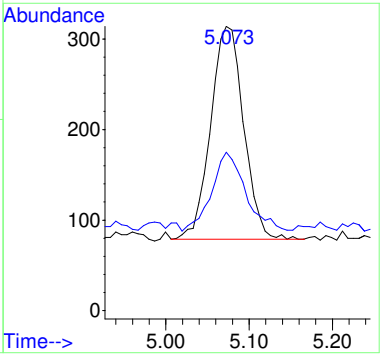


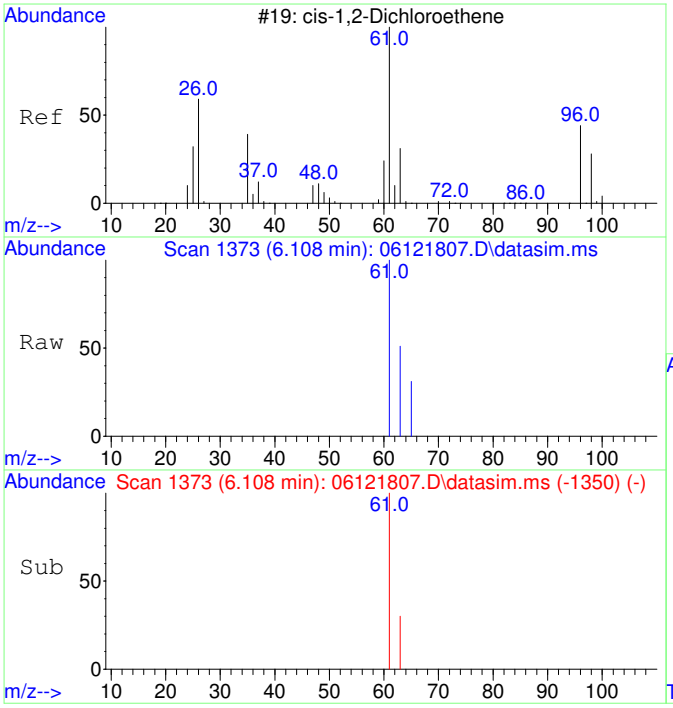


#4
1,1-Dichloroethane
Concen: 154.06 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 63 Resp: 648

Ion	Ratio	Lower	Upper
63	100		
65	37.8	1.5	61.5

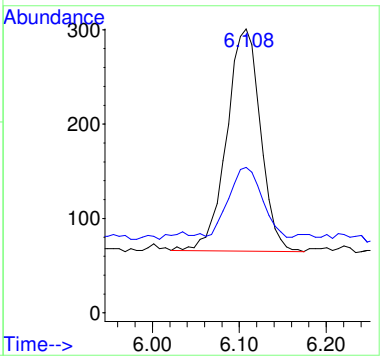


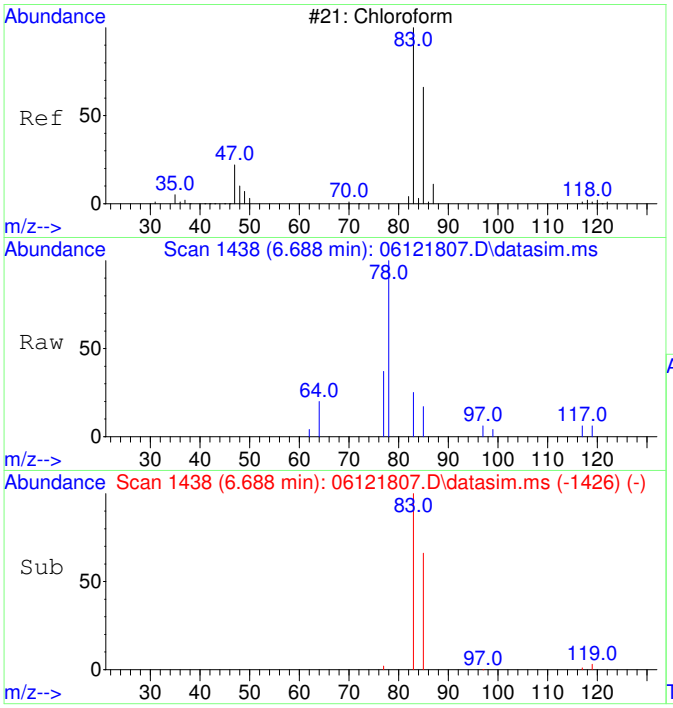


#5
cis-1,2-Dichloroethene
Concen: 153.04 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 635

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.2	62.2

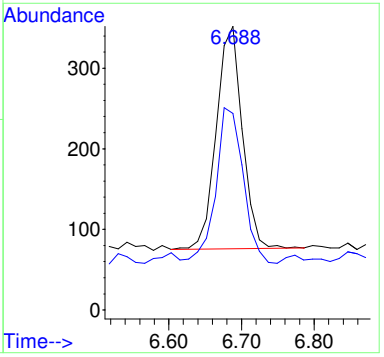


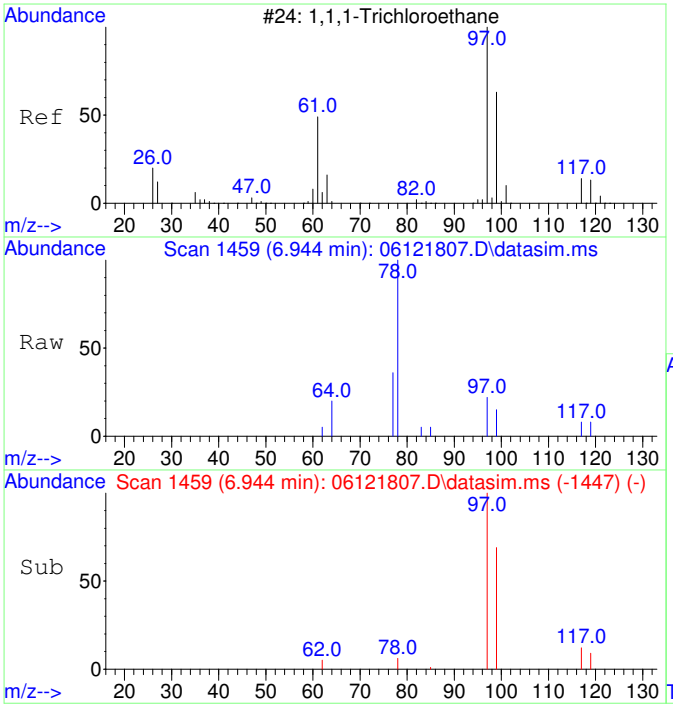


#6
Chloroform
Concen: 153.54 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 686

Ion	Ratio	Lower	Upper
83	100		
85	73.6	34.8	94.8

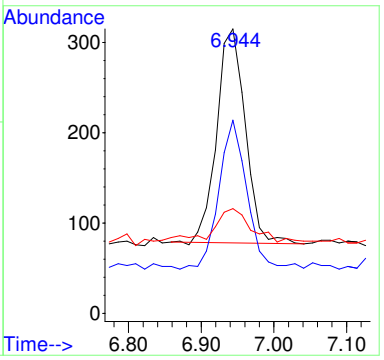


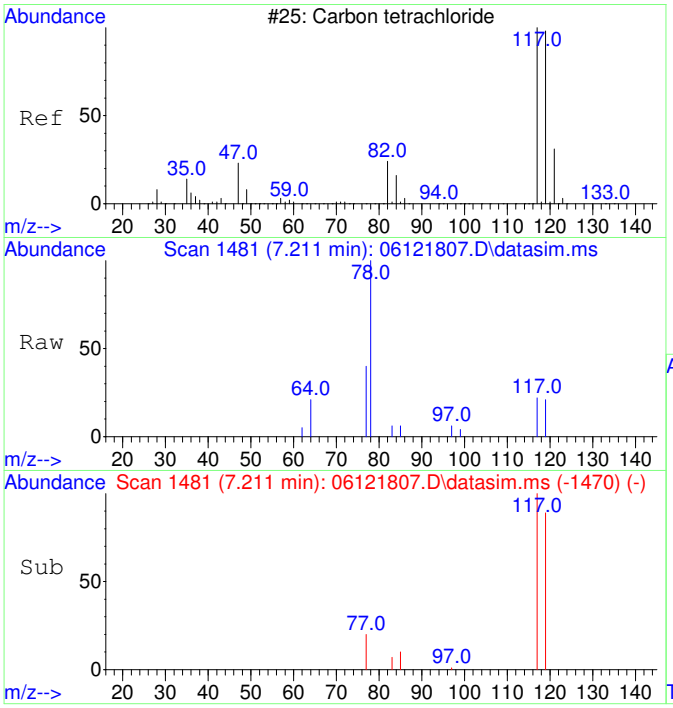


#7
1,1,1-Trichloroethane
Concen: 147.13 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 97 Resp: 647

Ion	Ratio	Lower	Upper
97	100		
99	67.9	34.6	94.6
117	17.3	0.0	42.9

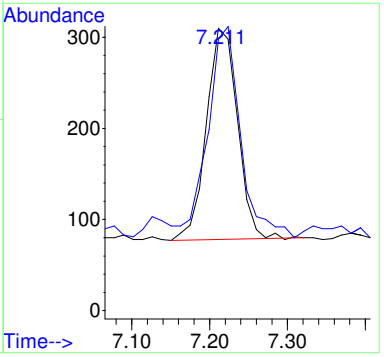


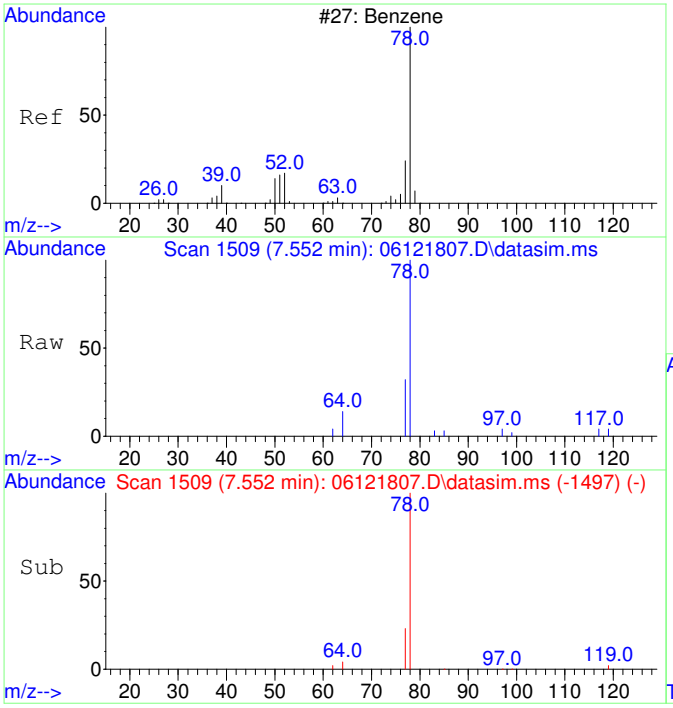


#8
Carbon tetrachloride
Concen: 154.60 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:117 Resp: 644

Ion	Ratio	Lower	Upper
117	100		
119	104.2	65.9	125.9

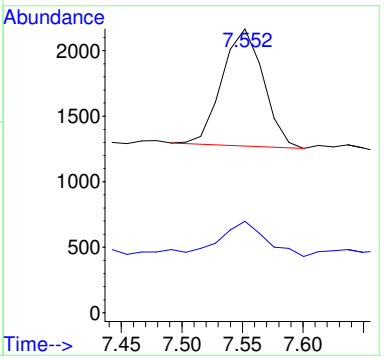


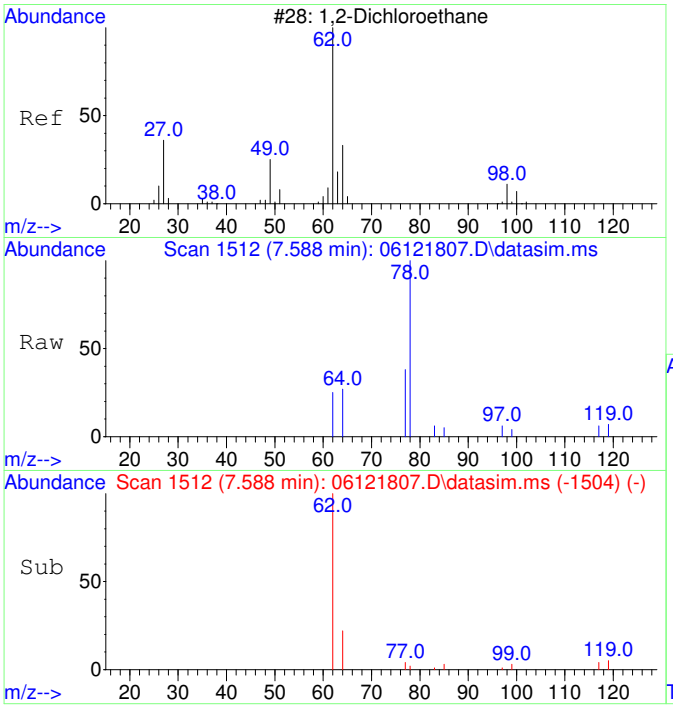


#9
Benzene
Concen: 174.39 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 78 Resp: 2116

Ion	Ratio	Lower	Upper
78	100		
77	37.9	0.0	53.0

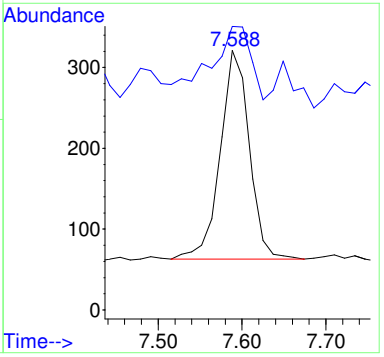


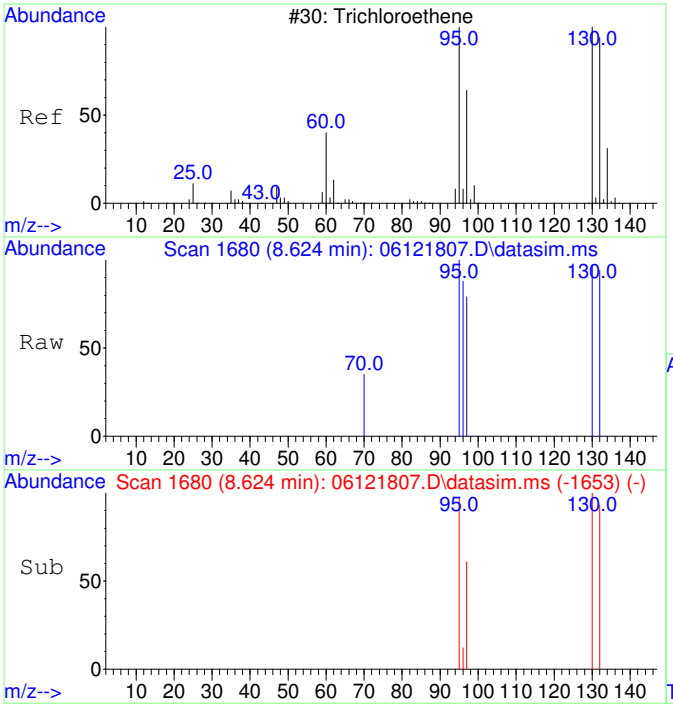


#10
1,2-Dichloroethane
Concen: 158.54 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 62 Resp: 620

Ion	Ratio	Lower	Upper
62	100		
64	48.7	2.3	62.3

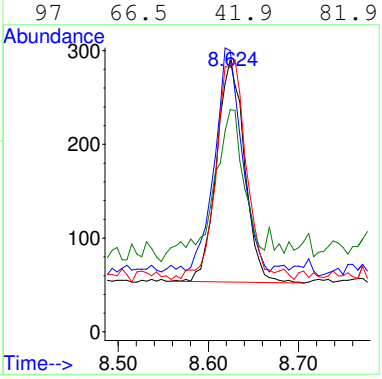


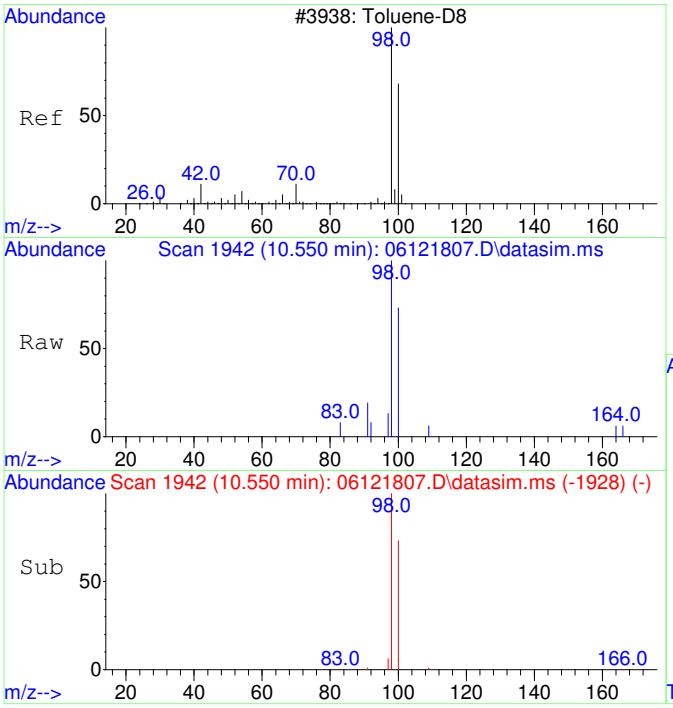


#11
Trichloroethene
Concen: 152.93 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:130 Resp: 510

Ion	Ratio	Lower	Upper
130	100		
95	97.6	66.0	126.0
132	106.7	78.8	118.8
97	66.5	41.9	81.9

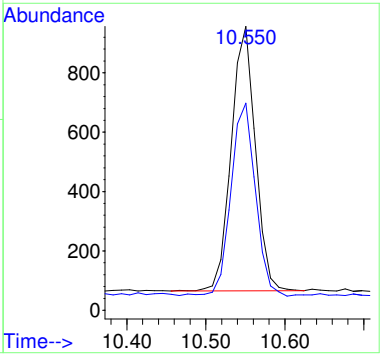


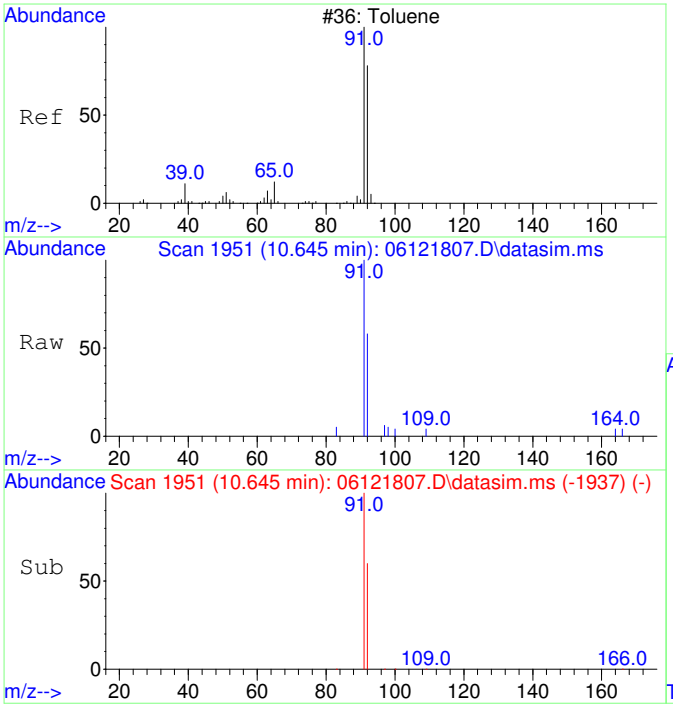


#12
Toluene-d8
Concen: 153.23 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 98 Resp: 1881

Ion	Ratio	Lower	Upper
98	100		
100	73.1	38.7	98.7

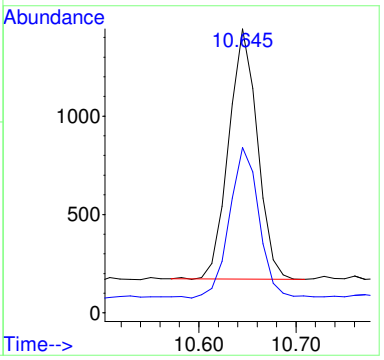


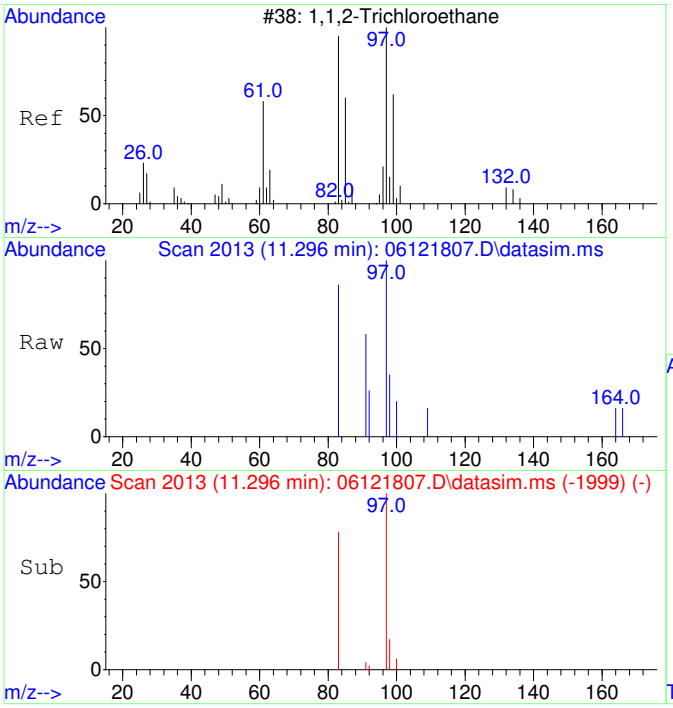


#13
Toluene
Concen: 157.91 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2599

Ion	Ratio	Lower	Upper
91	100		
92	61.4	30.0	90.0

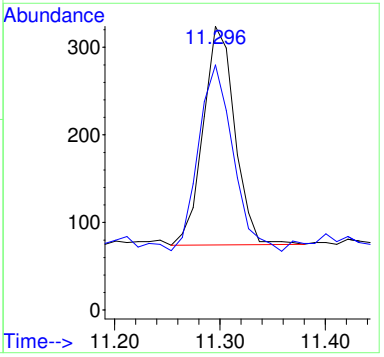


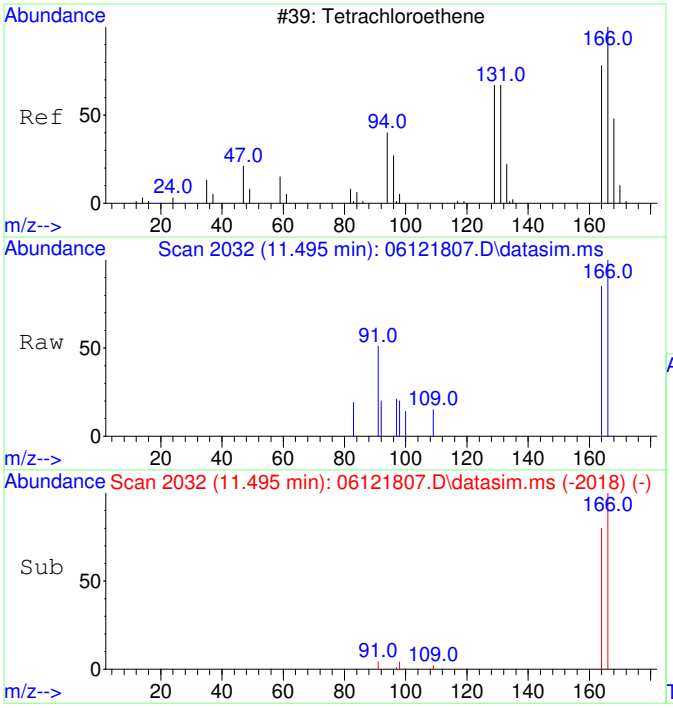


#14
1,1,2-Trichloroethane
Concen: 153.15 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 97 Resp: 521

Ion	Ratio	Lower	Upper
97	100		
83	92.7	53.4	113.4

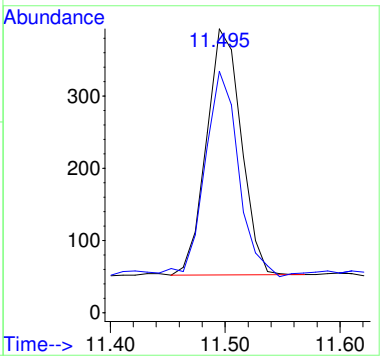


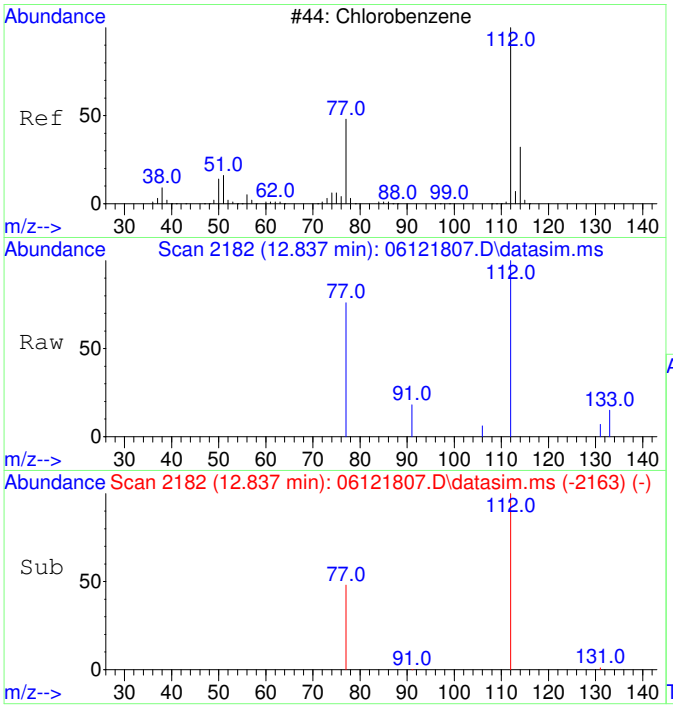


#15
Tetrachloroethene
Concen: 154.41 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:166 Resp: 716

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

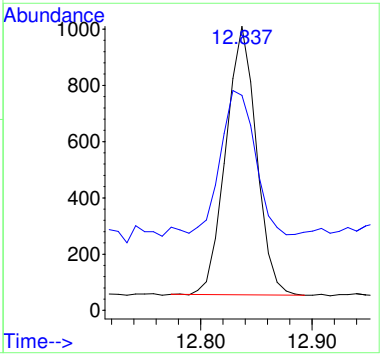


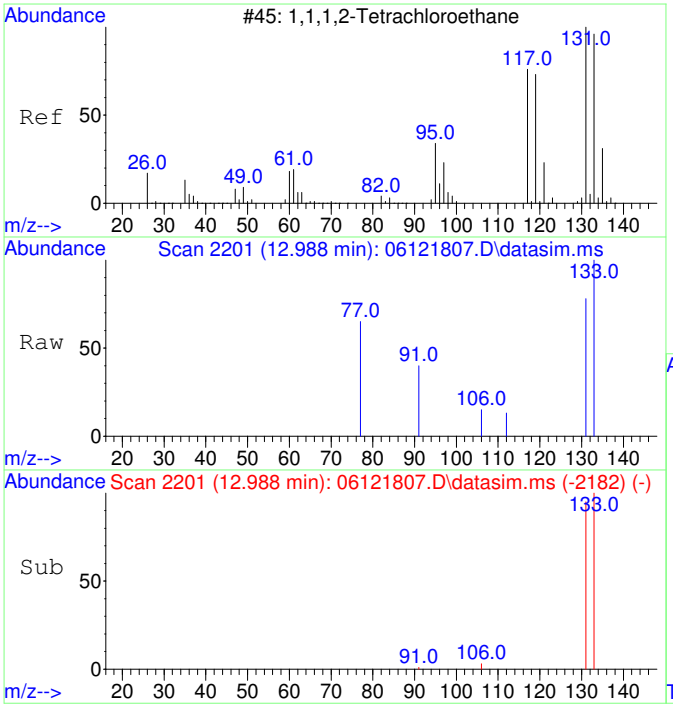


#16
Chlorobenzene
Concen: 155.19 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:112 Resp: 1823

Ion	Ratio	Lower	Upper
112	100		
77	66.6	28.1	88.1

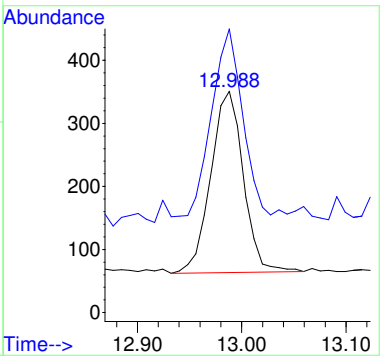


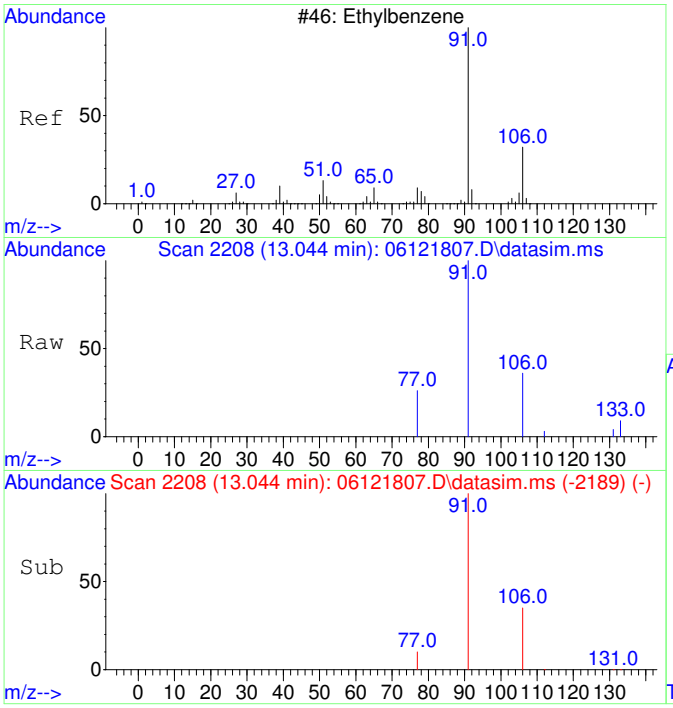


#17
1,1,1,2-Tetrachloroethane
Concen: 156.28 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:131 Resp: 623

Ion	Ratio	Lower	Upper
131	100		
133	106.6	66.2	126.2

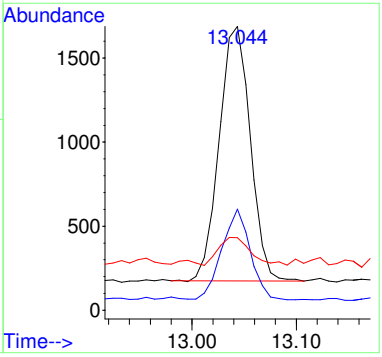


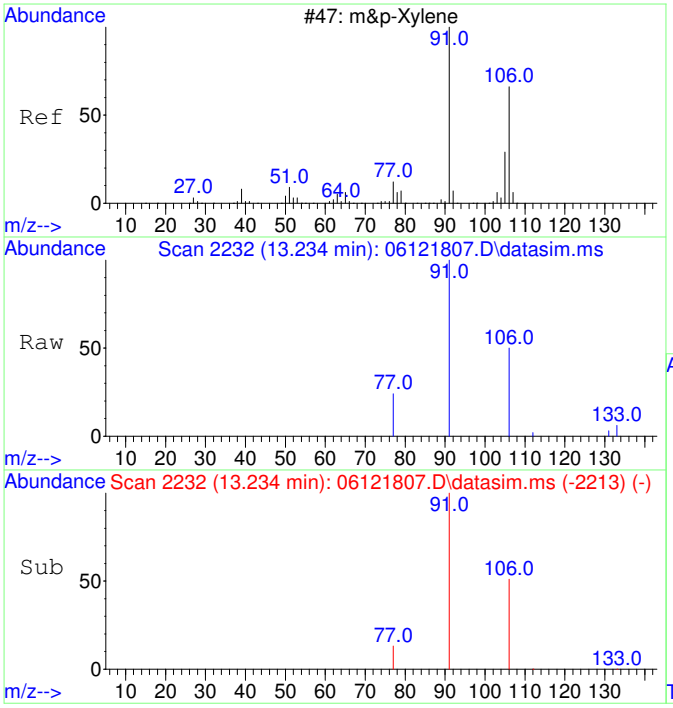


#18
Ethylbenzene
Concen: 158.83 ug/L
RT: 13.044 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 3137

Ion	Ratio	Lower	Upper
91	100		
106	31.9	2.8	62.8
77	11.8	0.0	38.6

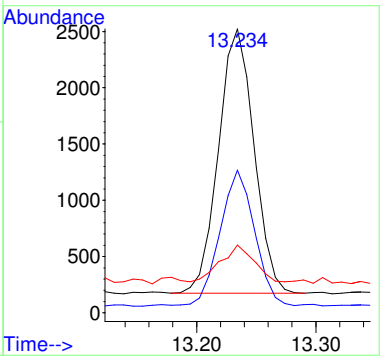


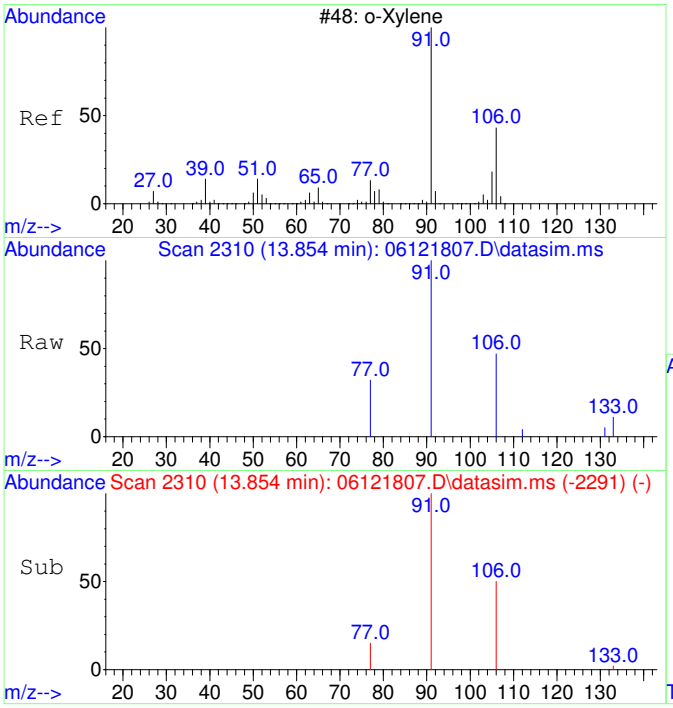


#19
m&p-Xylene
Concen: 320.39 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 4884

Ion	Ratio	Lower	Upper
91	100		
106	49.6	21.2	81.2
77	12.9	0.0	42.9

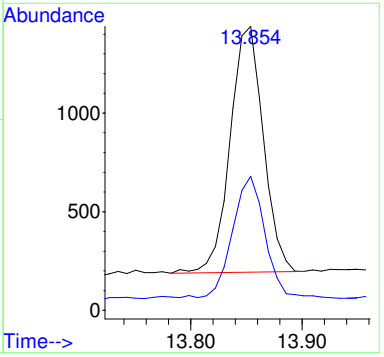


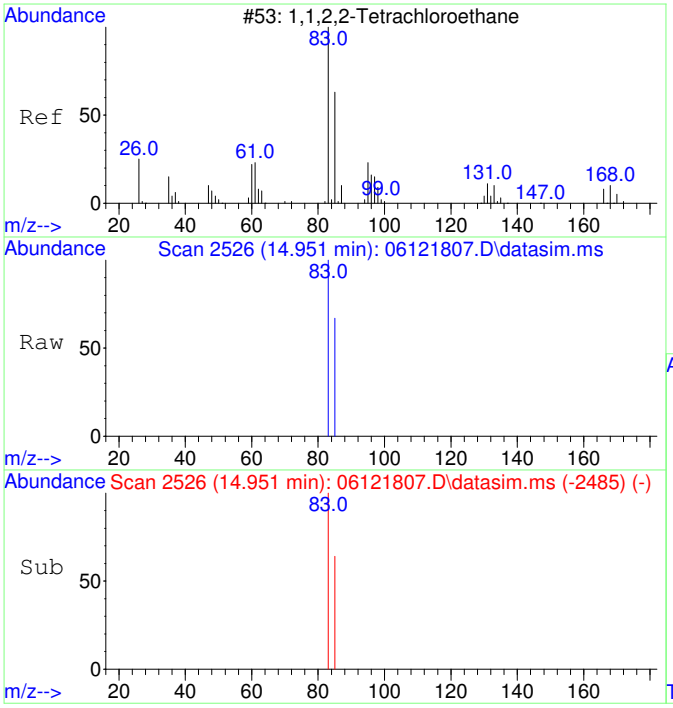


#20
o-Xylene
Concen: 159.68 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2578

Ion	Ratio	Lower	Upper
91	100		
106	48.3	18.3	78.3

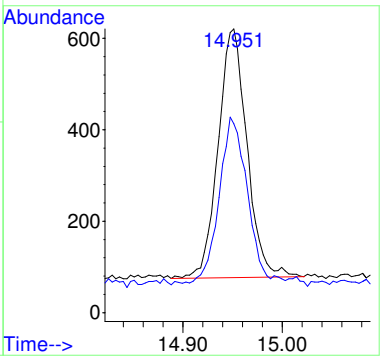


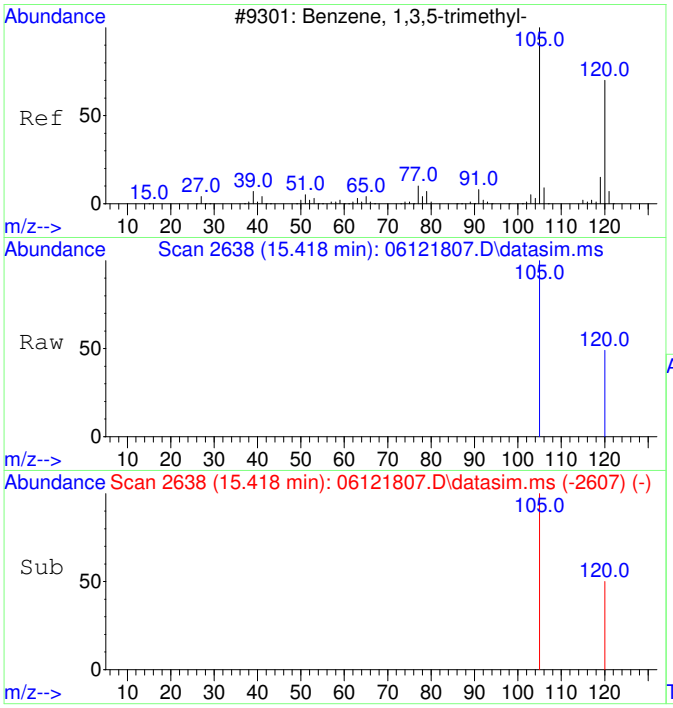


#21
1,1,2,2-Tetrachloroethane
Concen: 157.77 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 1097

Ion	Ratio	Lower	Upper
83	100		
85	66.5	34.4	94.4

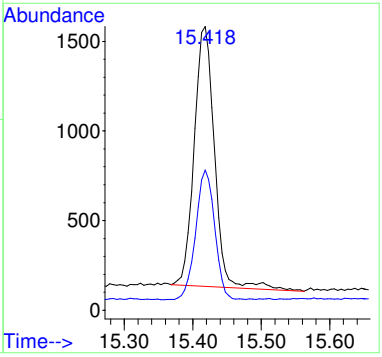


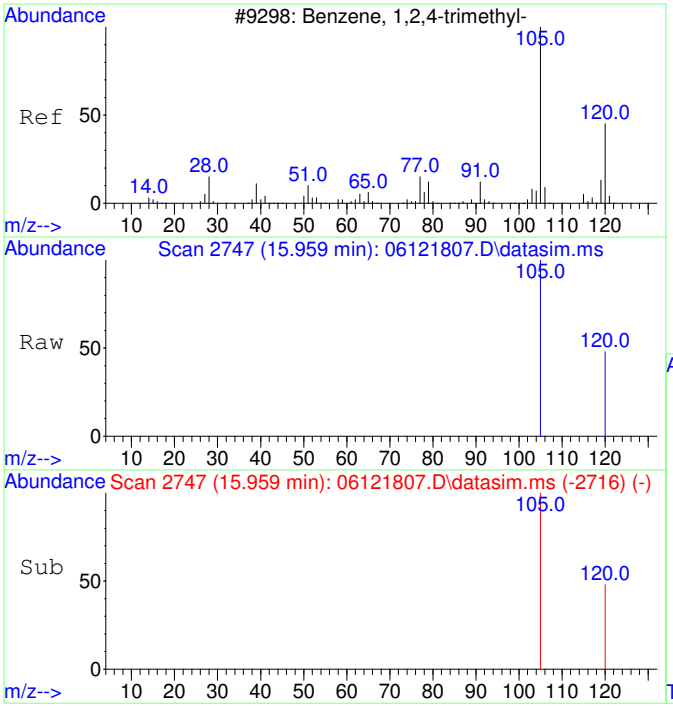


#22
1,3,5-Trimethylbenzene
Concen: 163.79 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 2992

Ion	Ratio	Lower	Upper
105	100		
120	46.5	19.1	79.1

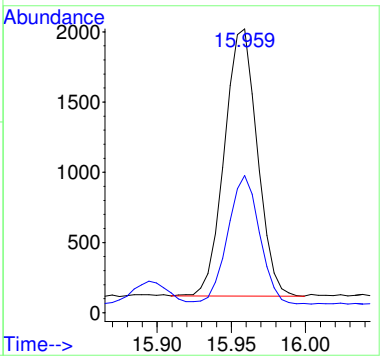


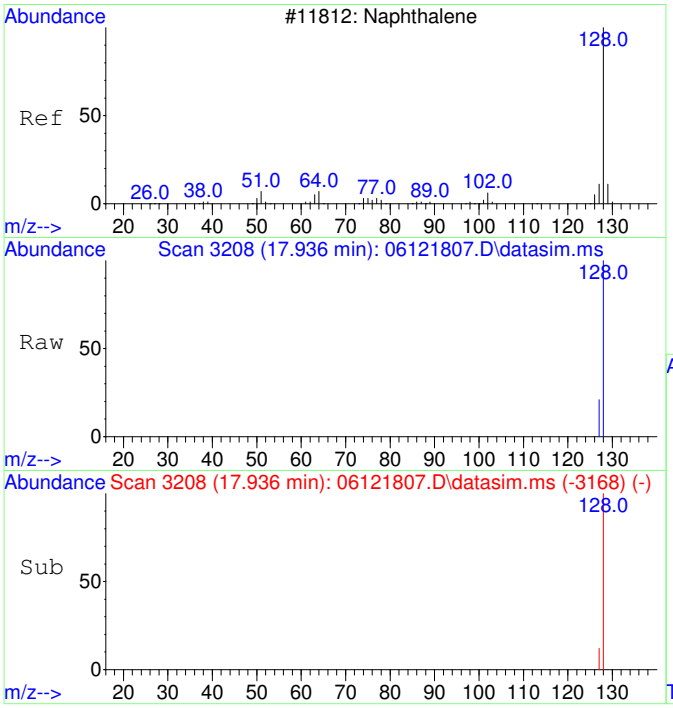


#23
1,2,4-Trimethylbenzene
Concen: 161.01 ug/L
RT: 15.959 min Scan# 2747
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 2942

Ion	Ratio	Lower	Upper
105	100		
120	45.2	15.5	75.5

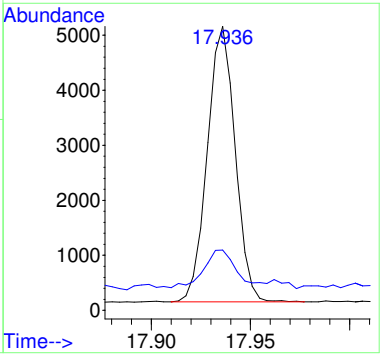


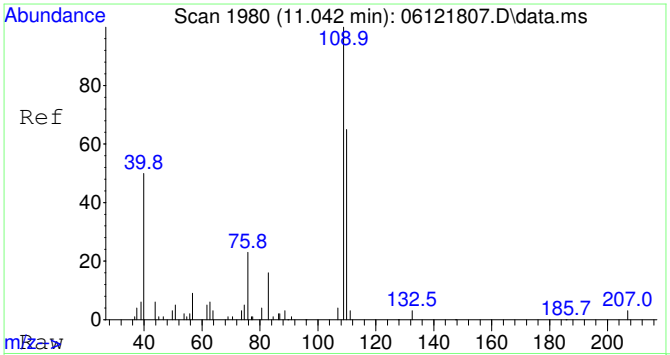


#24
Naphthalene
Concen: 163.10 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:128 Resp: 4891

Ion	Ratio	Lower	Upper
128	100		
127	18.1	0.0	42.5

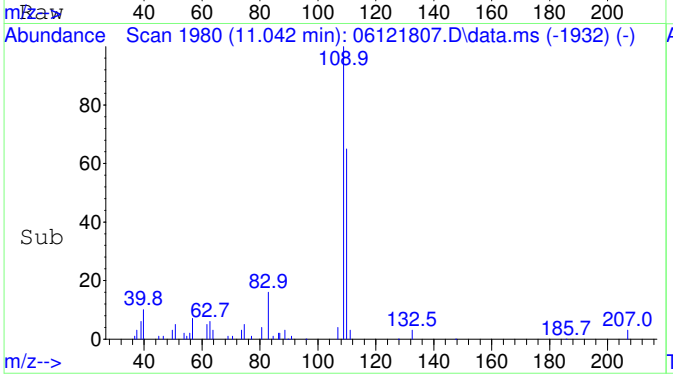


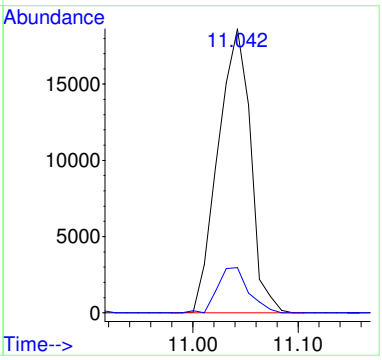


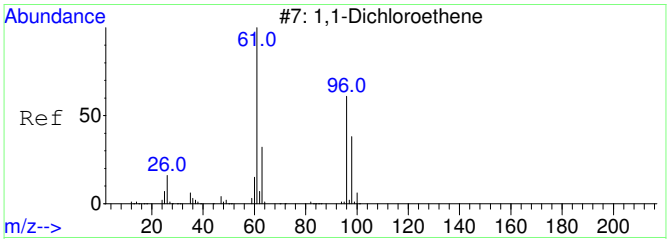
#25
2-Fluorotoluene SCAN
Concen: 4541.08 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

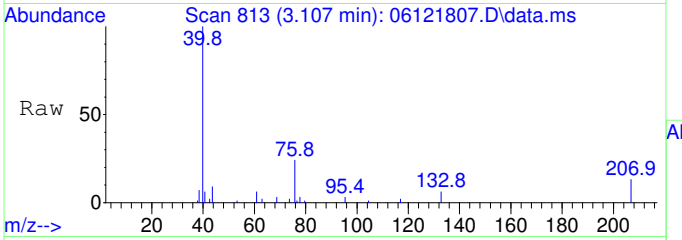
Tgt Ion:109 Resp: 39990

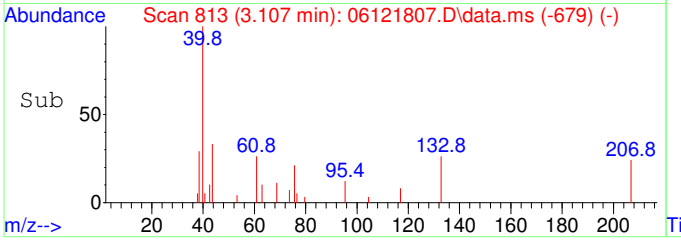
Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	45.7







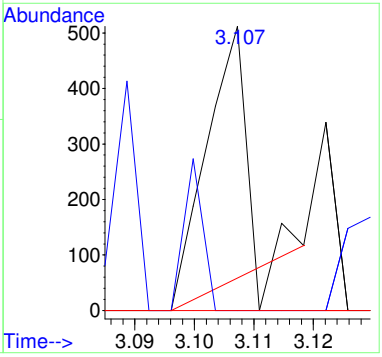


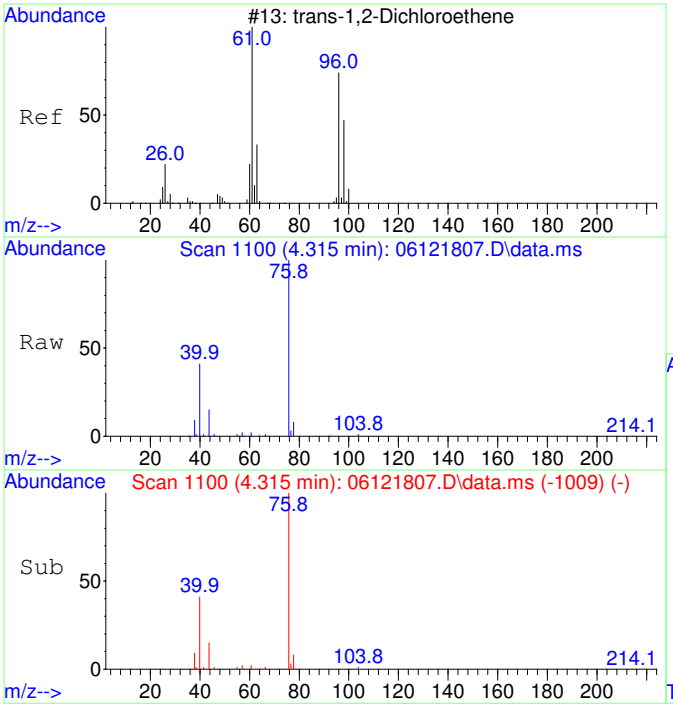


#26
1,1-Dichloroethene SCAN
Concen: 100.57 ug/L
RT: 3.107 min Scan# 813
Delta R.T. -0.003 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 221

Ion	Ratio	Lower	Upper
61	100		
96	27.6	23.8	83.8
98	0.0	8.8	68.8#

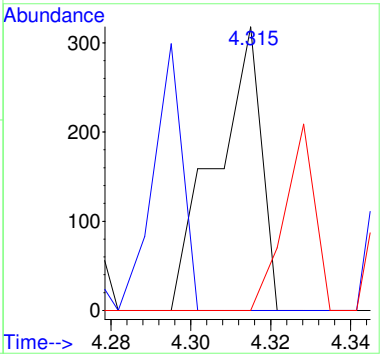


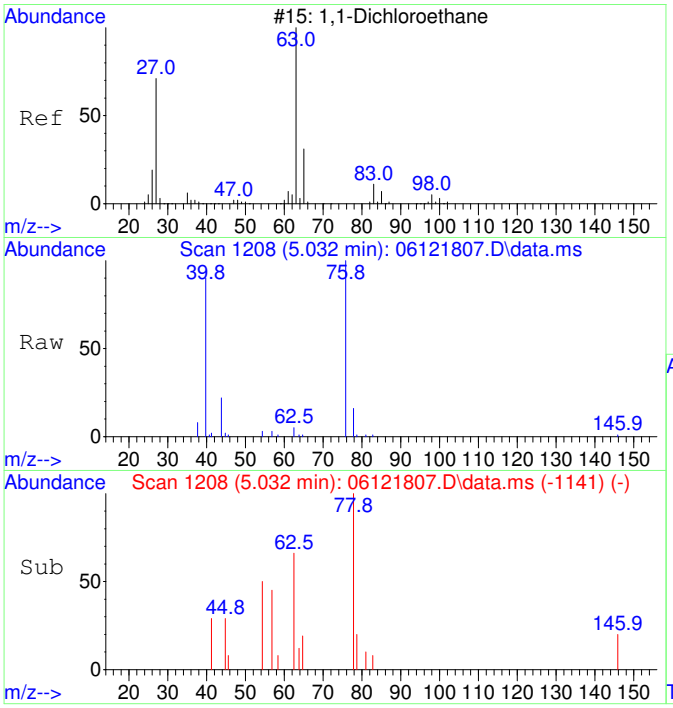


#27
trans-1,2-Dichloroethene SCAN
Concen: 98.89 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. -0.020 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 253

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	43.9	12.7	72.7

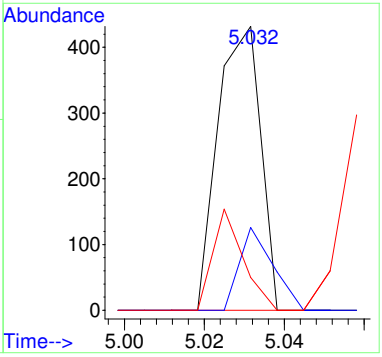


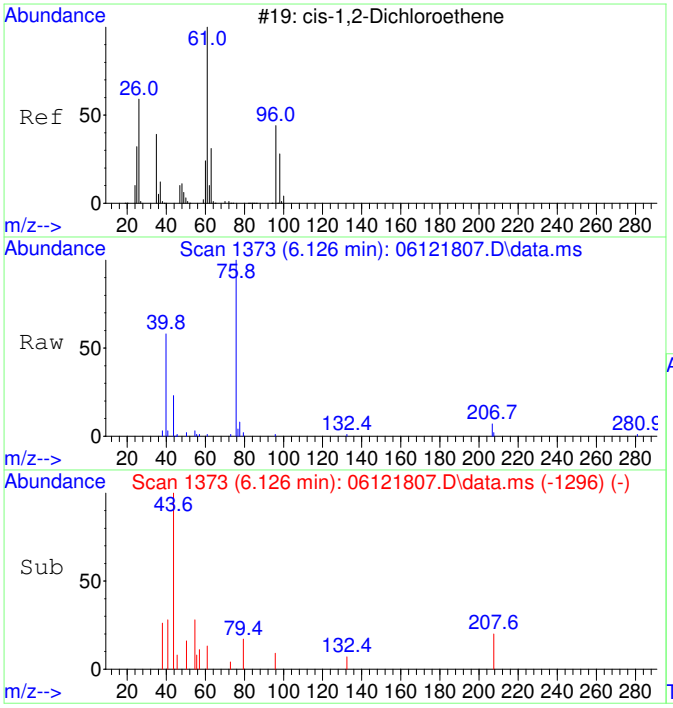


#28
1,1-Dichloroethane SCAN
Concen: 98.32 ug/L
RT: 5.032 min Scan# 1208
Delta R.T. -0.053 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 63 Resp: 320

Ion	Ratio	Lower	Upper
63	100		
65	22.8	7.5	67.5
83	25.3	0.0	34.3

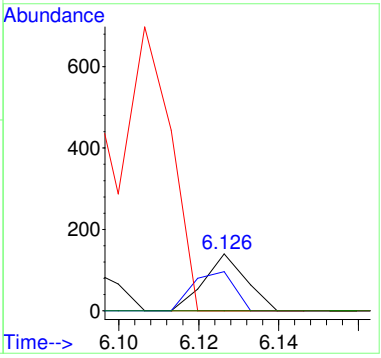


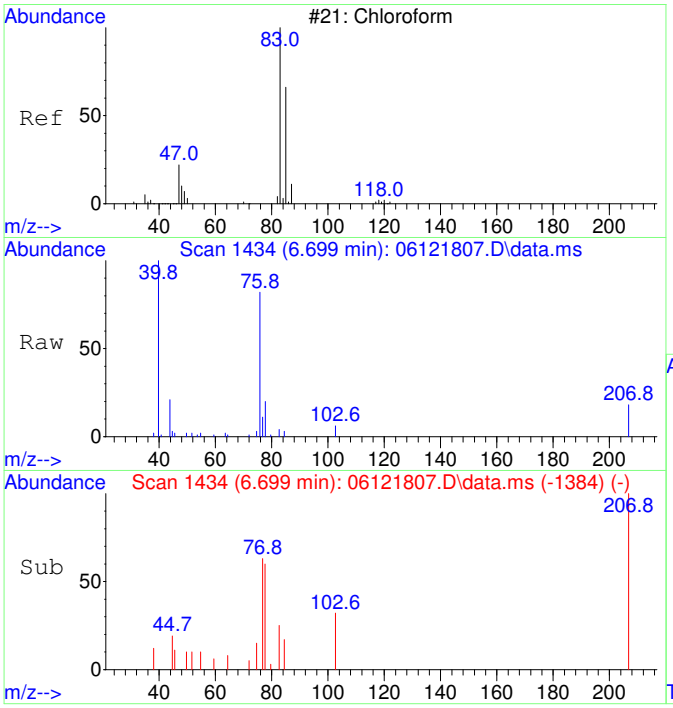


#29
cis-1,2-Dichloroethene SCAN
Concen: 36.24 ug/L
RT: 6.126 min Scan# 1373
Delta R.T. 0.013 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 102

Ion	Ratio	Lower	Upper
61	100		
96	68.6	28.2	88.2
98	0.0	14.1	74.1#
63	0.0	1.5	61.5#

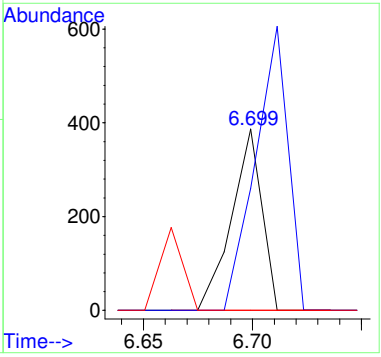


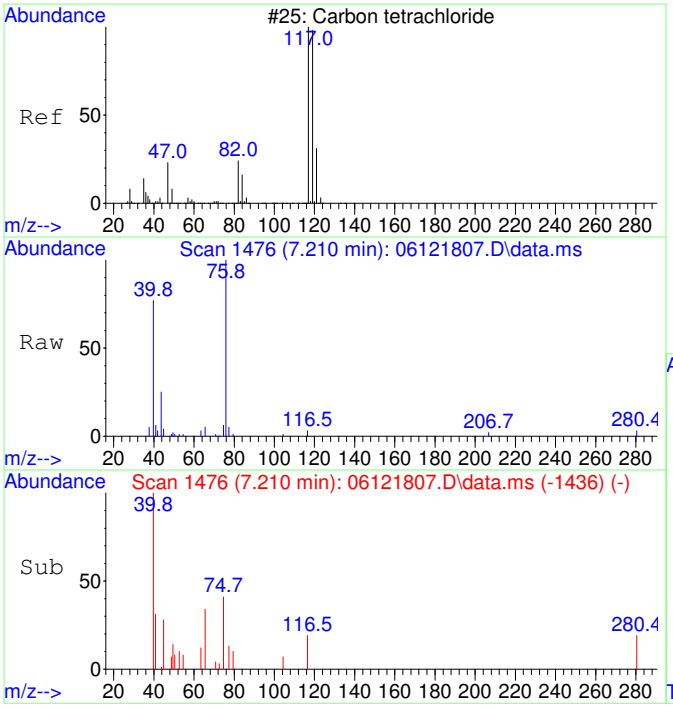


#30
Chloroform SCAN
Concen: 108.25 ug/L
RT: 6.699 min Scan# 1434
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 374

Ion	Ratio	Lower	Upper
83	100		
85	169.0	32.6	92.6#
47	0.0	0.0	57.9

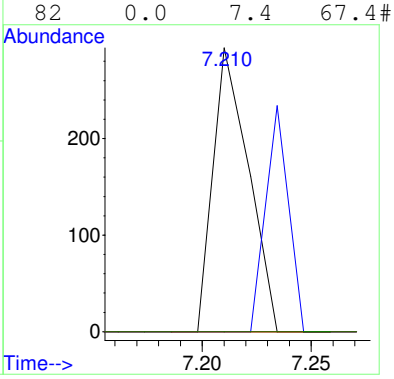


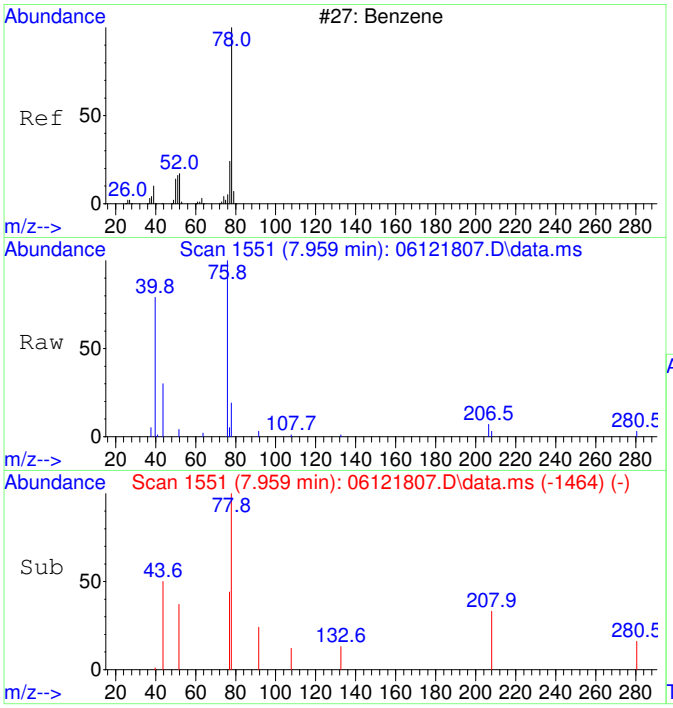


#32
Carbon tetrachloride SCAN
Concen: 109.56 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:117 Resp: 332

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

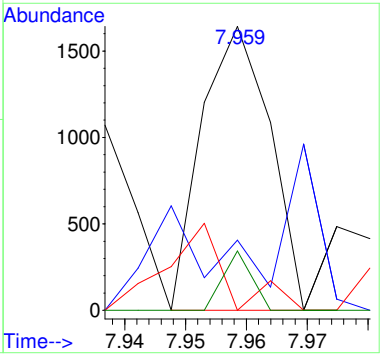


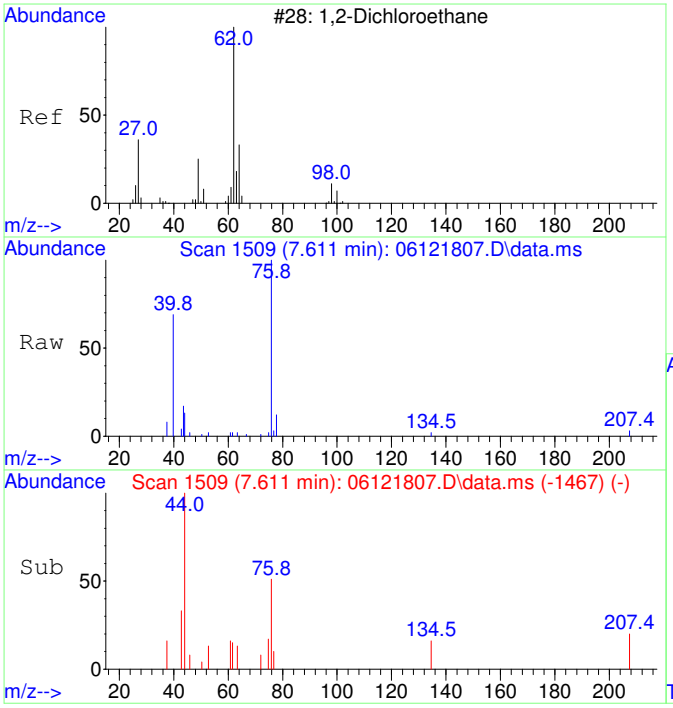


#33
Benzene SCAN
Concen: 140.11 ug/L
RT: 7.959 min Scan# 1551
Delta R.T. 0.396 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 78 Resp: 1285

Ion	Ratio	Lower	Upper
78	100		
77	19.2	3.0	63.0
51	27.5	0.0	56.4
52	8.7	0.0	48.0

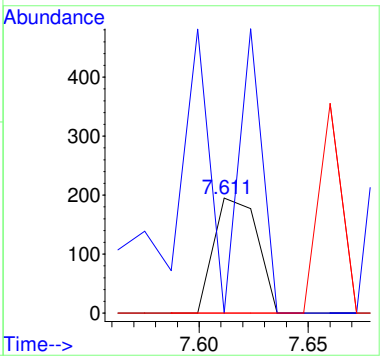


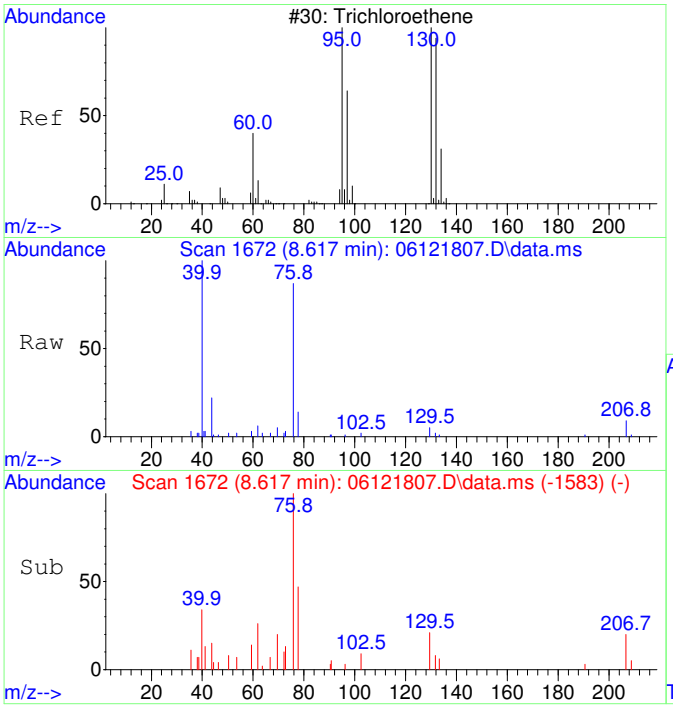


#34
1,2-Dichloroethane SCAN
Concen: 86.64 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 62 Resp: 271

Ion	Ratio	Lower	Upper
62	100		
64	229.9	1.2	61.2#
49	0.0	10.4	70.4#

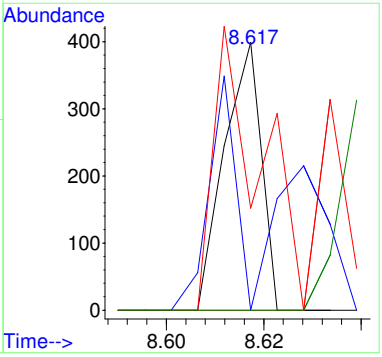


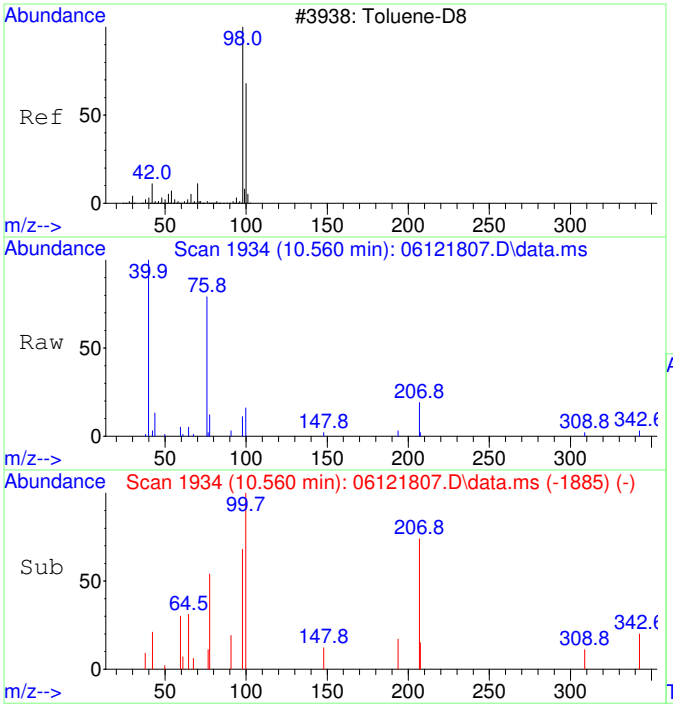


#35
Trichloroethene SCAN
Concen: 93.57 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. -0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:130 Resp: 210

Ion	Ratio	Lower	Upper
130	100		
95	62.9	70.5	130.5#
132	134.8	63.8	123.8#
97	0.0	34.8	94.8#

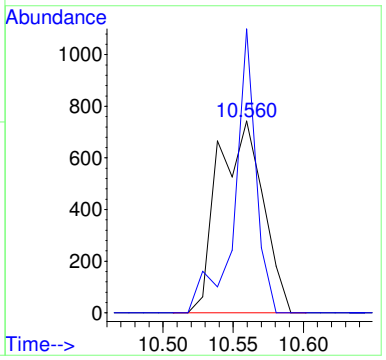


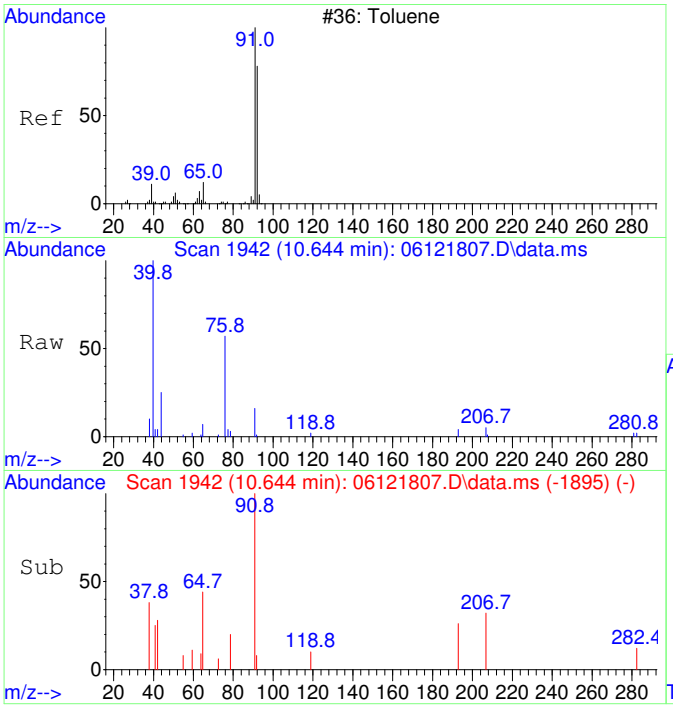


#36
Toluene-d8 SCAN
Concen: 209.90 ug/L
RT: 10.560 min Scan# 1934
Delta R.T. 0.011 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 98 Resp: 1671

Ion	Ratio	Lower	Upper
98	100		
100	70.0	39.5	99.5

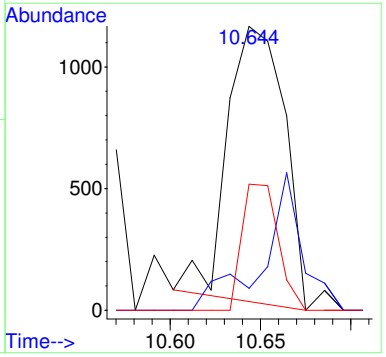


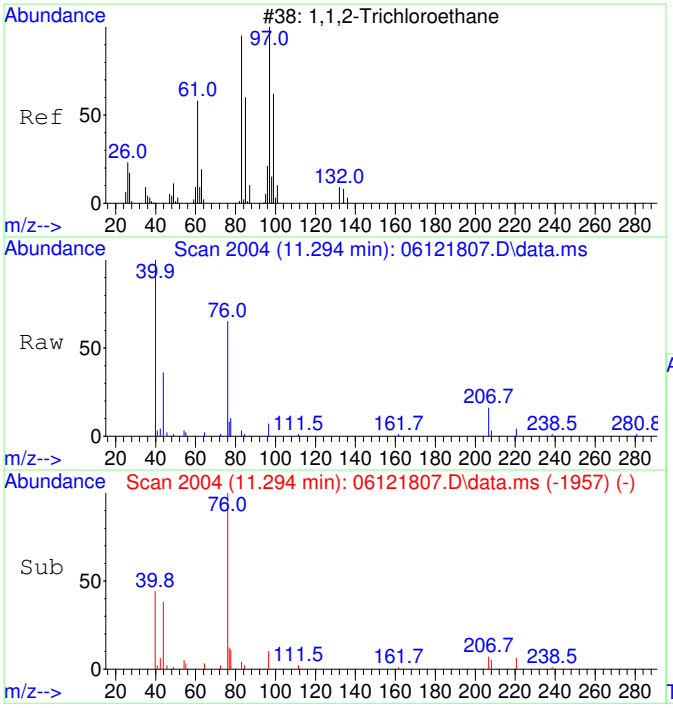


#37
Toluene SCAN
Concen: 243.87 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. -0.010 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2480

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.6	86.6#
65	29.4	0.0	42.3

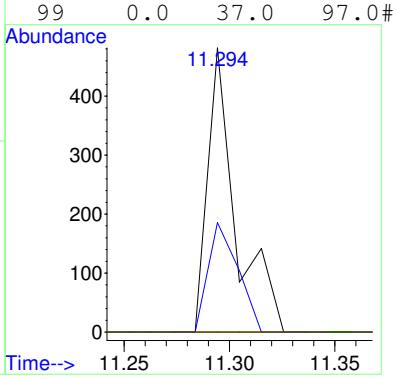


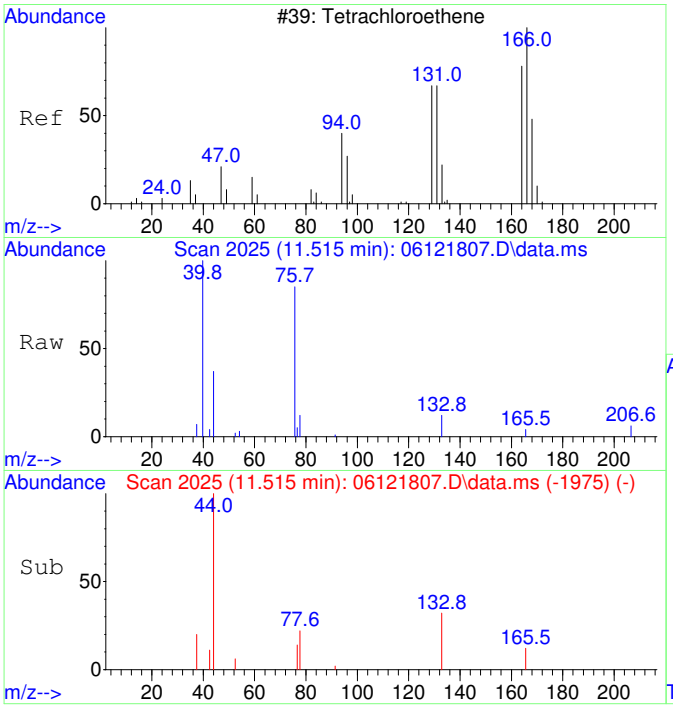


#38
1,1,2-Trichloroethane SCAN
Concen: 228.88 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 97 Resp: 446

Ion	Ratio	Lower	Upper
97	100		
83	41.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

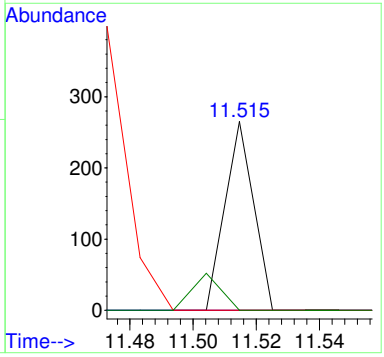


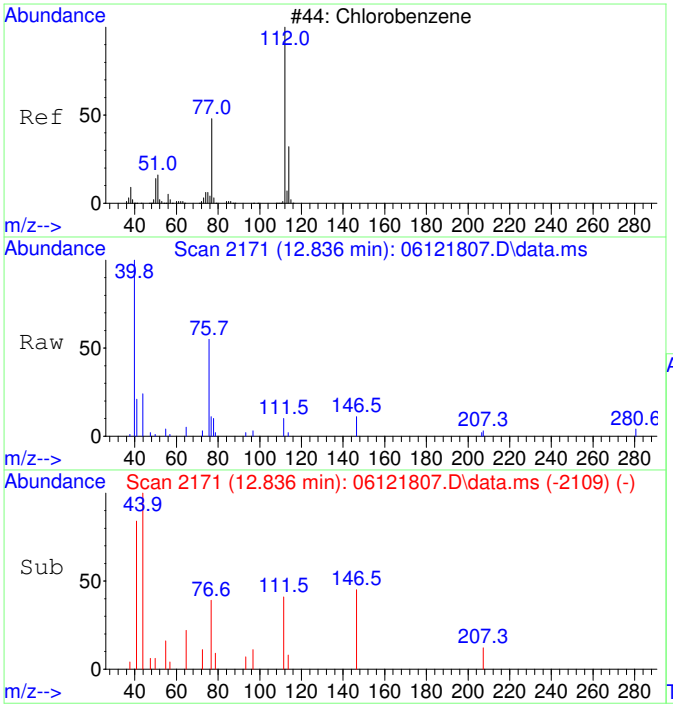


#39
Tetrachloroethene SCAN
Concen: 74.84 ug/L
RT: 11.515 min Scan# 2025
Delta R.T. 0.021 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:166 Resp: 167

Ion	Ratio	Lower	Upper
166	100		
164	0.0	43.3	103.3#
131	0.0	35.6	95.6#
129	0.0	36.6	96.6#

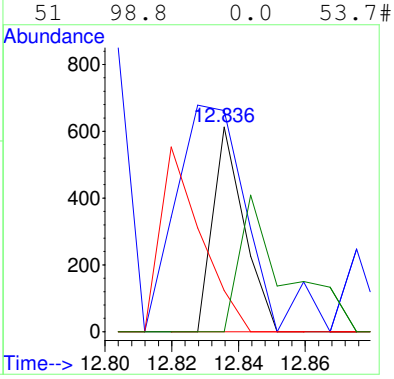


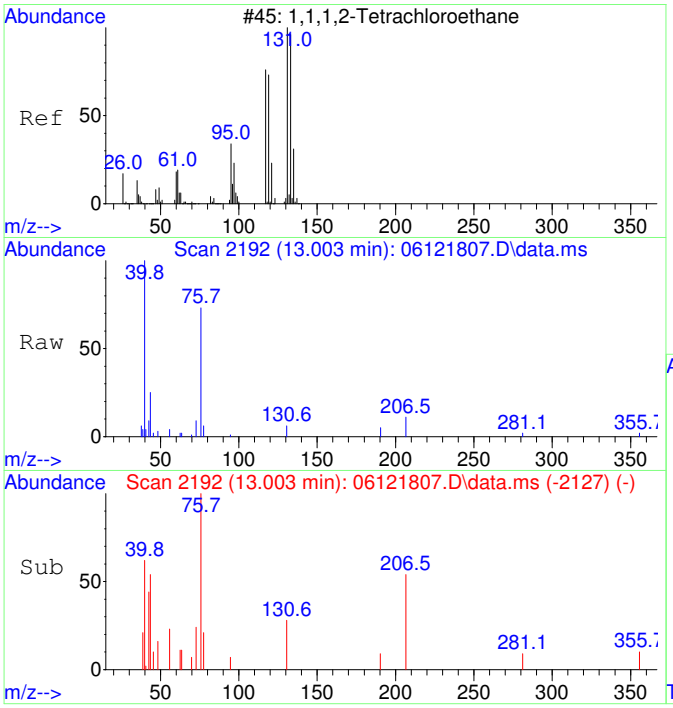


#40
Chlorobenzene SCAN
Concen: 64.84 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:112 Resp: 400

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.4	88.4#
114	0.0	0.0	59.5
51	98.8	0.0	53.7#

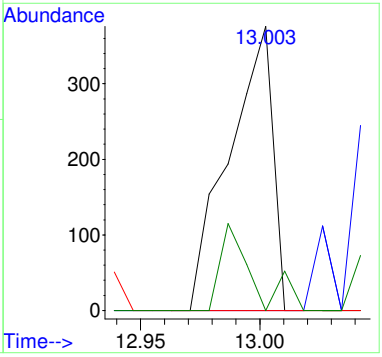


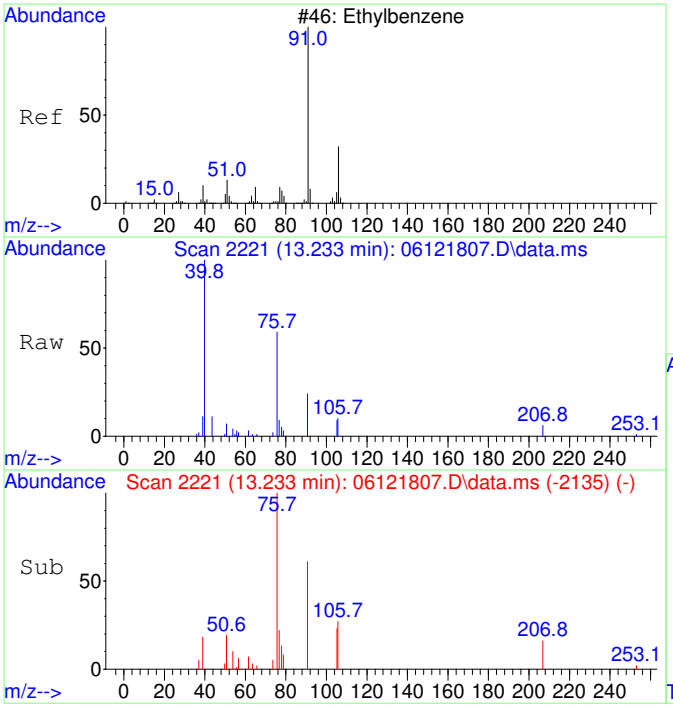


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 218.90 ug/L
RT: 13.003 min Scan# 2192
Delta R.T. 0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:131 Resp: 482

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	22.6	28.2	88.2#

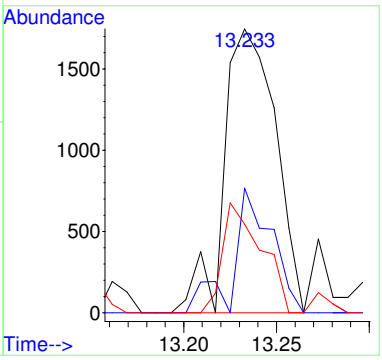


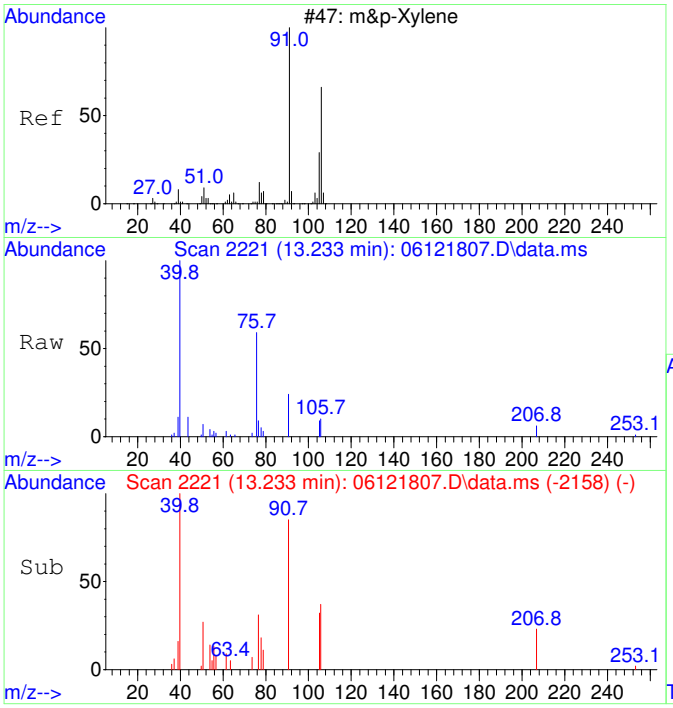


#42
Ethylbenzene SCAN
Concen: 286.28 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.183 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 3384

Ion	Ratio	Lower	Upper
91	100		
106	32.9	3.2	63.2
51	29.4	0.0	40.1

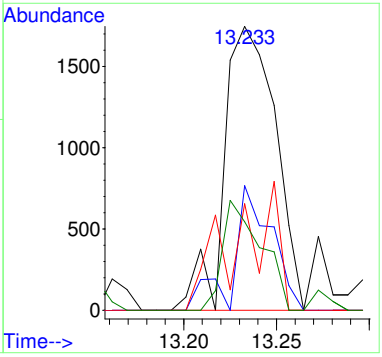


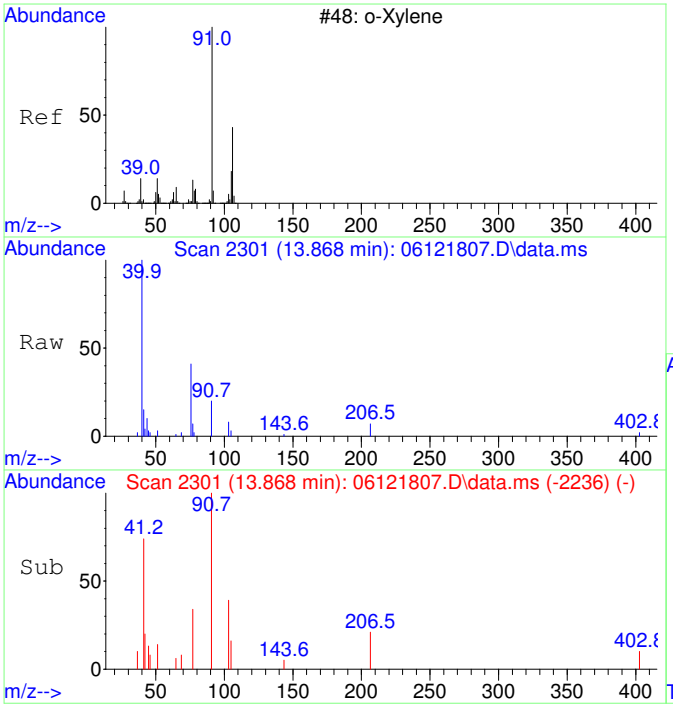


#43
m&p-Xylene SCAN
Concen: 206.25 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 3384

Ion	Ratio	Lower	Upper
91	100		
106	32.9	20.1	80.1
105	10.9	0.0	51.1
51	29.4	0.0	40.7

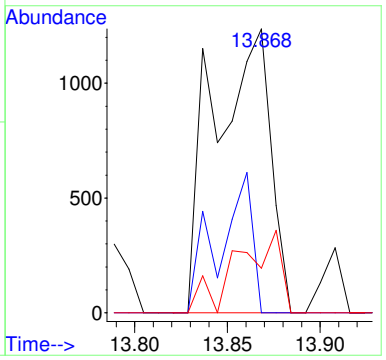


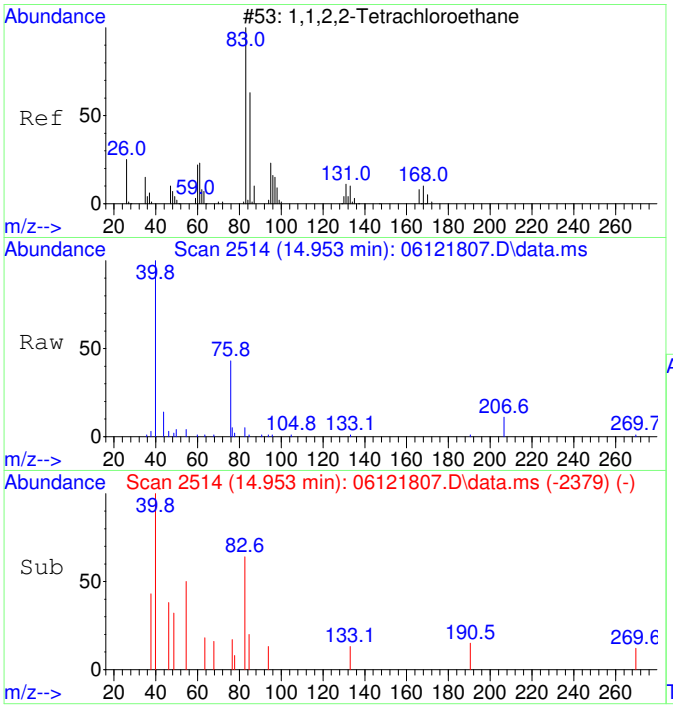


#44
o-Xylene SCAN
Concen: 282.06 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2634

Ion	Ratio	Lower	Upper
91	100		
106	29.2	21.3	81.3
105	22.6	0.0	55.2

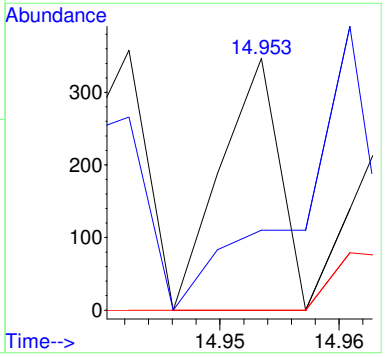


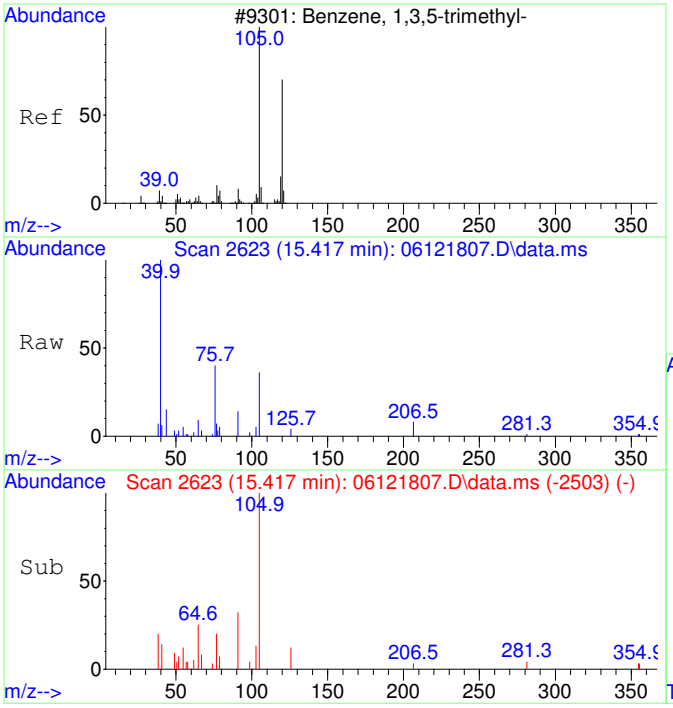


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 26.89 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 119

Ion	Ratio	Lower	Upper
83	100		
85	0.0	31.6	91.6#
95	0.0	0.0	49.0

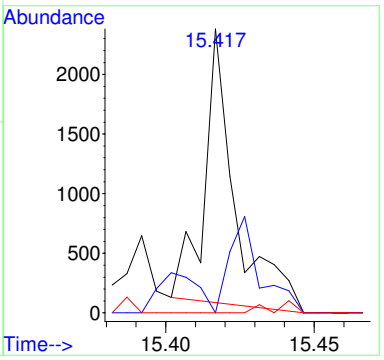


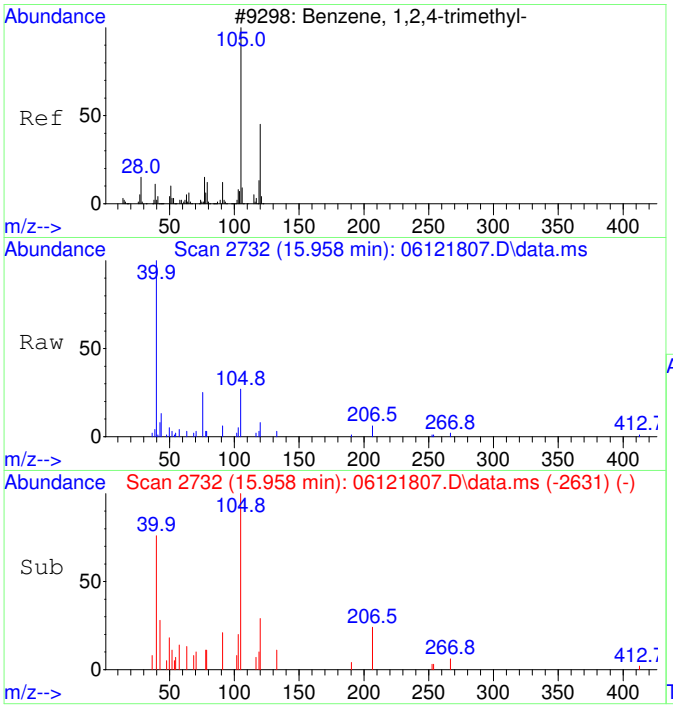


#46
1,3,5-Trimethylbenzene SCAN
Concen: 178.20 ug/L
RT: 15.417 min Scan# 2623
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 1650

Ion	Ratio	Lower	Upper
105	100		
120	35.2	16.8	76.8
119	0.0	0.0	41.5

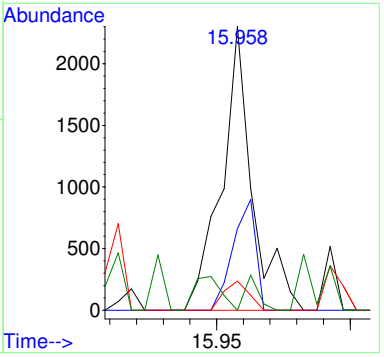


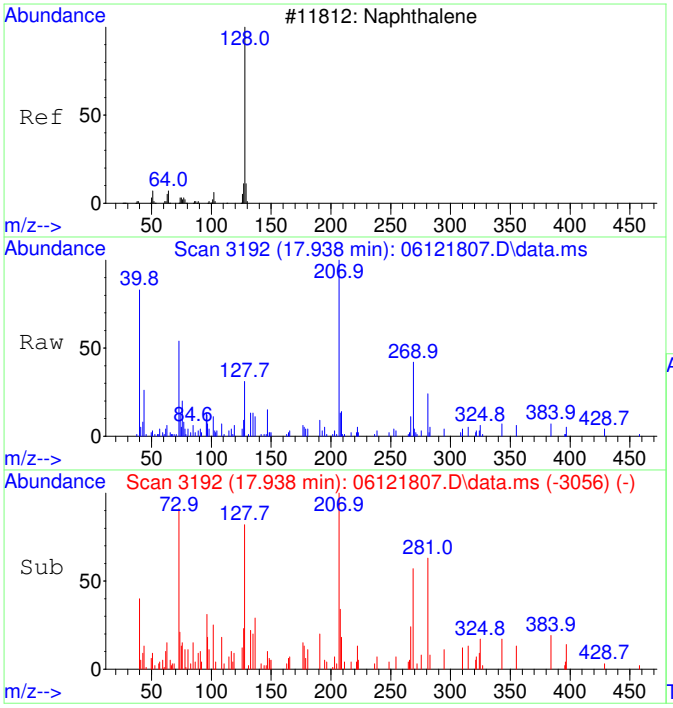


#47
1,2,4-Trimethylbenzene SCAN
Concen: 194.32 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 1844

Ion	Ratio	Lower	Upper
105	100		
120	28.9	15.4	75.4
119	8.4	0.0	41.7
77	5.5	0.0	42.0

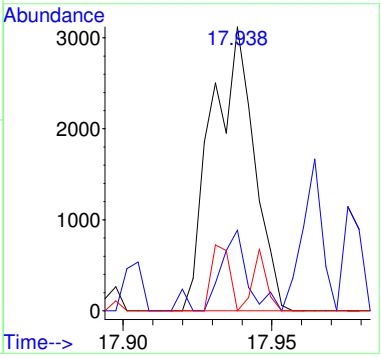




#48
Naphthalene SCAN
Concen: 229.85 ug/L
RT: 17.938 min Scan# 3192
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:128 Resp: 3112

Ion	Ratio	Lower	Upper
128	100		
127	17.1	0.0	43.9
129	7.0	0.0	40.5



S18F027-CAL6

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121808.D
Acq On : 12 Jun 2018 15:42
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL6
Misc : 1823103 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

M.I. Performed By:
RH at 1:36 pm, Jun 15, 2018

M.I. Approved By:
ZR at 10:13 am, Jun 20, 2018

Quant Time: Jun 14 17:06:14 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration

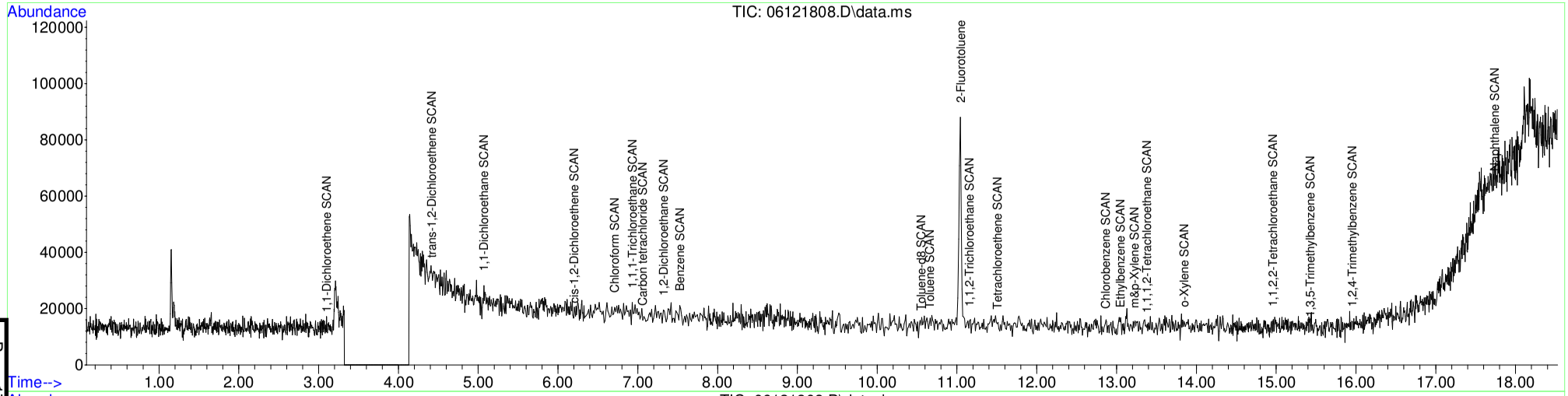
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	90218	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	746	50.91	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 1.02%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.101	61	177m	45.86	ug/L	
3] trans-1,2-Dichloroethene	4.310	61	194	48.09	ug/L	87
4] 1,1-Dichloroethane	5.073	63	250	49.79	ug/L	89
5] cis-1,2-Dichloroethene	6.108	61	267	53.90	ug/L	96
6] Chloroform	6.688	83	292	54.75	ug/L	87
7] 1,1,1-Trichloroethane	6.944	97	286	54.48	ug/L #	28
8] Carbon tetrachloride	7.211	117	268	53.89	ug/L	76
9] Benzene	7.552	78	1081	74.63	ug/L #	37
10] 1,2-Dichloroethane	7.588	62	235	50.34	ug/L #	1
11] Trichloroethene	8.624	130	209	52.50	ug/L #	80
13] Toluene	10.645	91	1260	64.13	ug/L	100
14] 1,1,2-Trichloroethane	11.306	97	232	57.13	ug/L	77
15] Tetrachloroethene	11.505	166	298	53.83	ug/L	88
16] Chlorobenzene	12.837	112	751	53.55	ug/L	88
17] 1,1,1,2-Tetrachloroethane	12.988	131	254	53.37	ug/L #	65
18] Ethylbenzene	13.044	91	1320	55.98	ug/L	92
19] m&p-Xylene	13.234	91	1988	109.24	ug/L	95
20] o-Xylene	13.854	91	1038	53.86	ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.947	83	428	51.56	ug/L	86
22] 1,3,5-Trimethylbenzene	15.418	105	1206	55.30	ug/L	95
23] 1,2,4-Trimethylbenzene	15.959	105	1175	53.87	ug/L	98
24] Naphthalene	17.936	128	2046	57.15	ug/L	97
25) 2-Fluorotoluene SCAN	11.042	109	59747	5683.26	ug/L	96
26) 1,1-Dichloroethene SCAN	3.104	61	173	65.95	ug/L #	6
27) trans-1,2-Dichloroethe...	4.415	61	171	55.99	ug/L #	25
28) 1,1-Dichloroethane SCAN	5.071	63	386	99.35	ug/L #	43
29) cis-1,2-Dichloroethene...	6.199	61	200	59.52	ug/L #	1
30) Chloroform SCAN	6.711	83	445	107.89	ug/L #	40
31) 1,1,1-Trichloroethane ...	6.930	97	84	22.88	ug/L #	1
32) Carbon tetrachloride SCAN	7.064	117	320	88.46	ug/L #	23
33) Benzene SCAN	7.526	78	3448	314.93	ug/L #	60
34) 1,2-Dichloroethane SCAN	7.320	62	127	34.01	ug/L #	39
36) Toluene-d8 SCAN	10.549	98	488	51.35	ug/L #	15
37) Toluene SCAN	10.654	91	1647	135.67	ug/L #	54
38) 1,1,2-Trichloroethane ...	11.158	97	116	49.87	ug/L #	10
39) Tetrachloroethene SCAN	11.504	166	339	127.26	ug/L #	15
40) Chlorobenzene SCAN	12.860	112	182	24.71	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	13.376	131	242	92.06	ug/L #	13
42) Ethylbenzene SCAN	13.042	91	741	52.51	ug/L #	49
43) m&p-Xylene SCAN	13.225	91	845	43.14	ug/L #	67
44) o-Xylene SCAN	13.845	91	1050	94.19	ug/L #	62
45) 1,1,2,2-Tetrachloroeth...	14.954	83	360	68.13	ug/L	91
46) 1,3,5-Trimethylbenzene...	15.427	105	1022	92.46	ug/L #	65
47) 1,2,4-Trimethylbenzene...	15.948	105	277	24.45	ug/L #	29
48) Naphthalene SCAN	17.742	128	544	33.66	ug/L	67

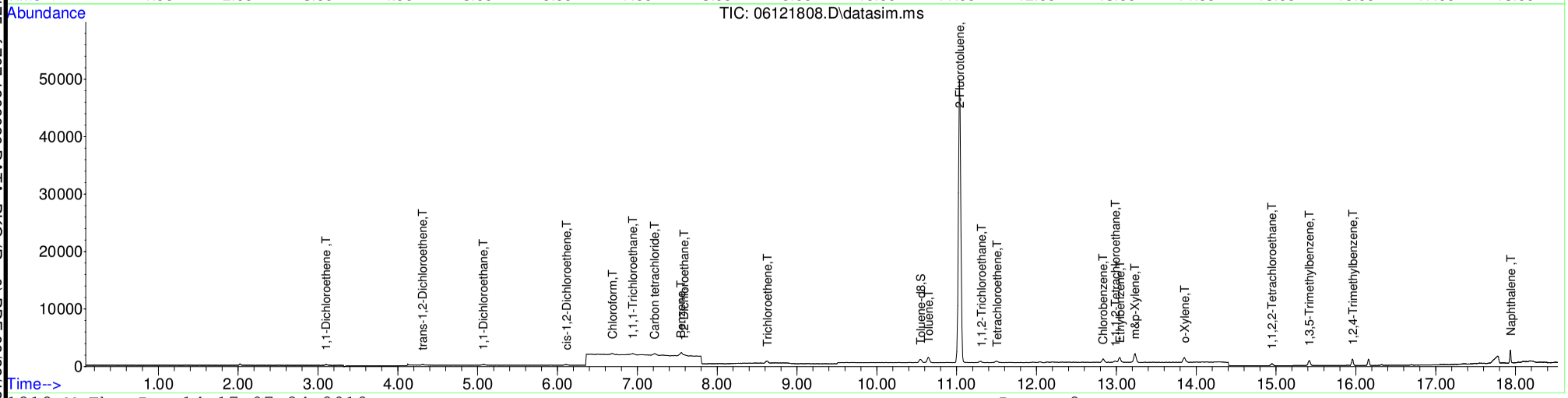
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121808.D
Acq On : 12 Jun 2018 15:42
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL6
Misc : 1823103 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 14 17:06:14 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration





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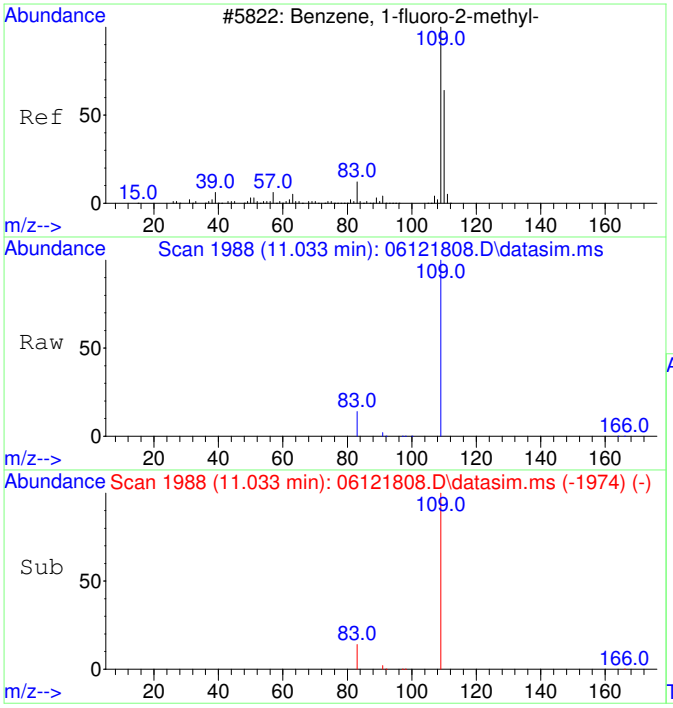
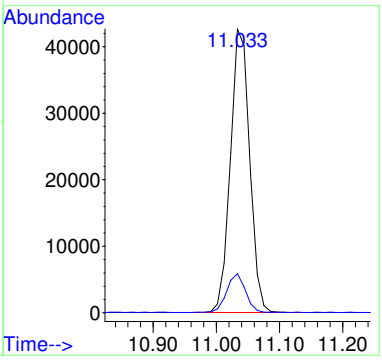
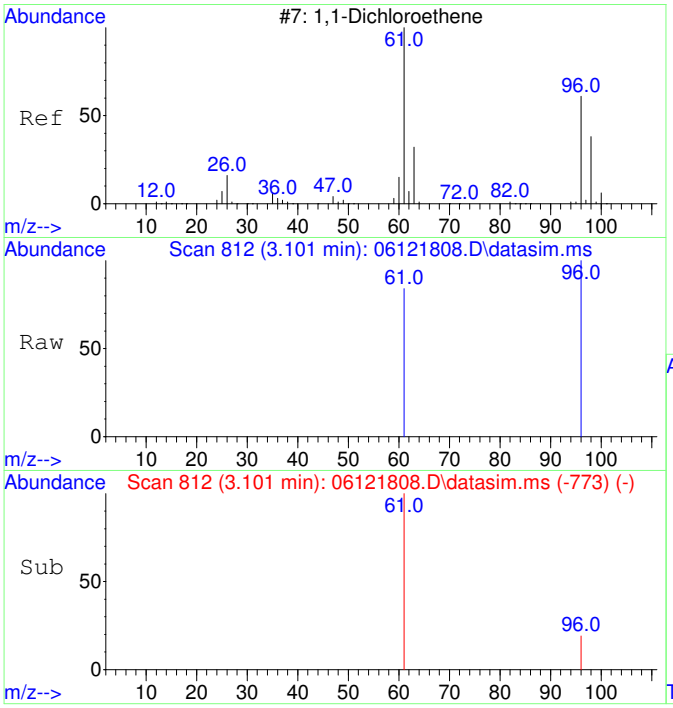


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:109 Resp: 90218

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	44.7

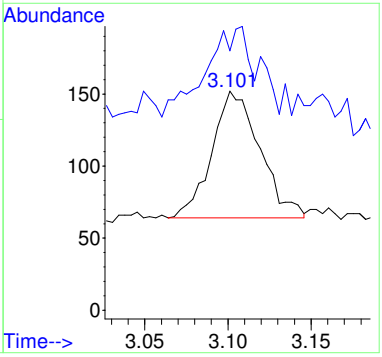


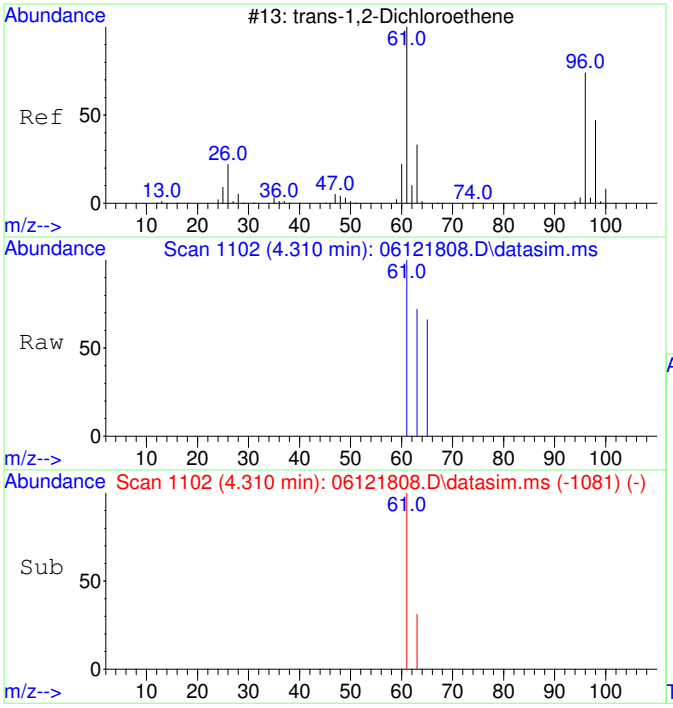


#2
1,1-Dichloroethene
Concen: 45.86 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. -0.003 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 177

Ion	Ratio	Lower	Upper
61	100		
96	63.8	28.7	88.7

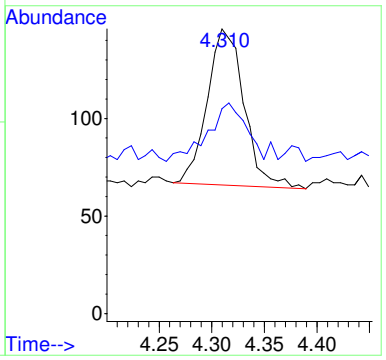


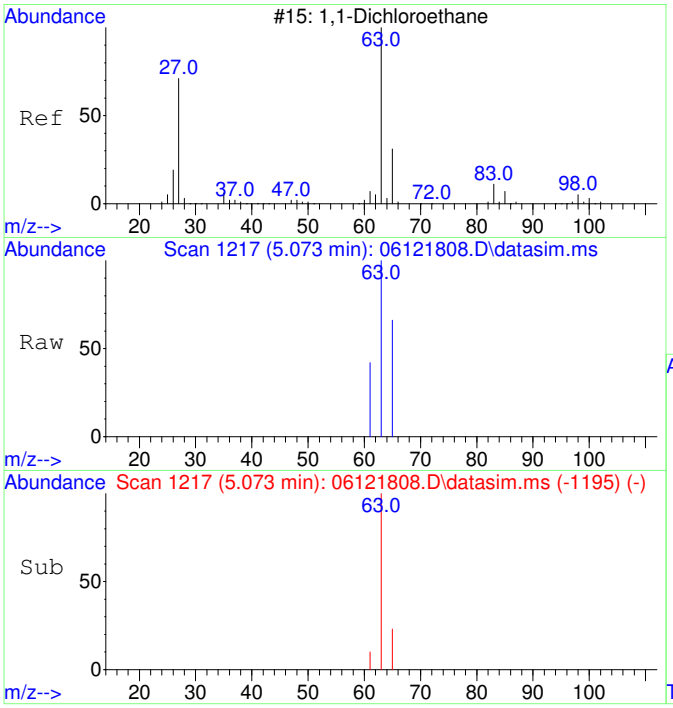


#3
trans-1,2-Dichloroethene
Concen: 48.09 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 194

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.0	62.0

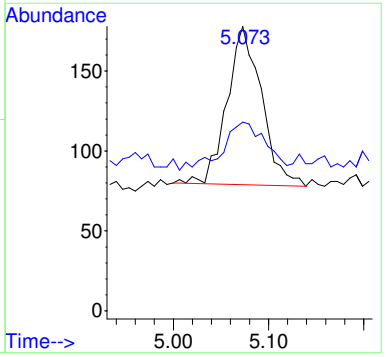


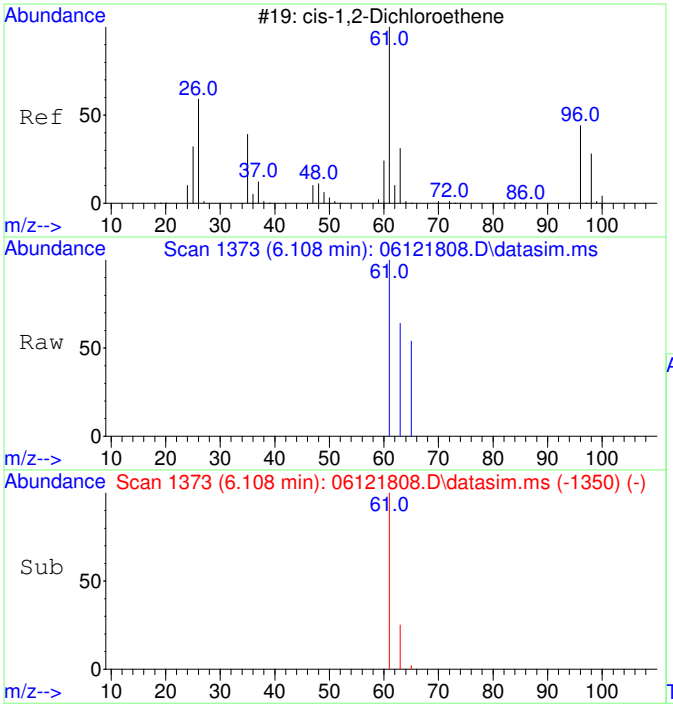


#4
1,1-Dichloroethane
Concen: 49.79 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 63 Resp: 250

Ion	Ratio	Lower	Upper
63	100		
65	37.6	1.5	61.5

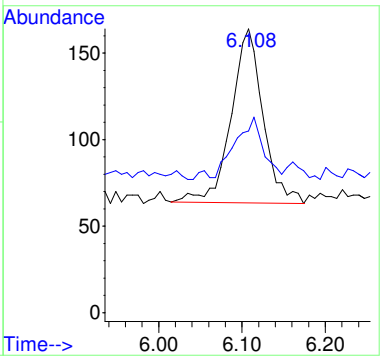


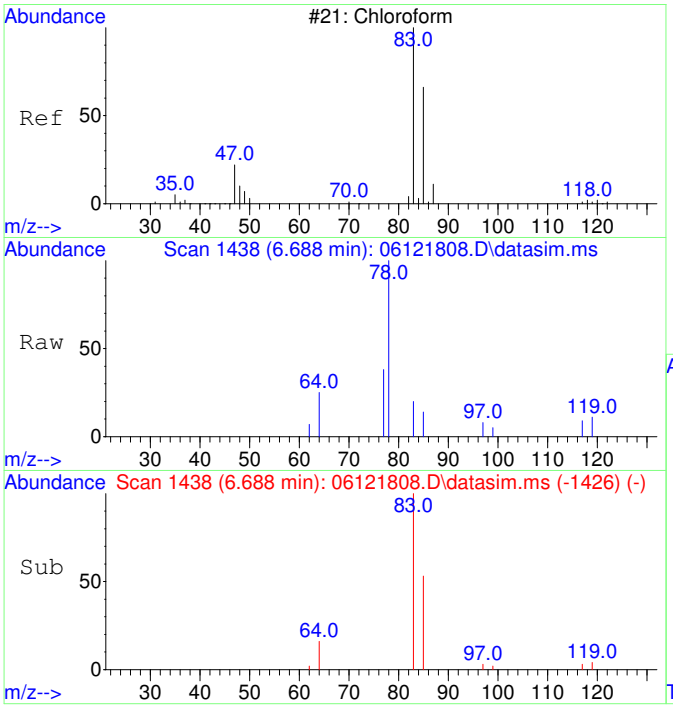


#5
cis-1,2-Dichloroethene
Concen: 53.90 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 267

Ion	Ratio	Lower	Upper
61	100		
63	30.0	2.2	62.2

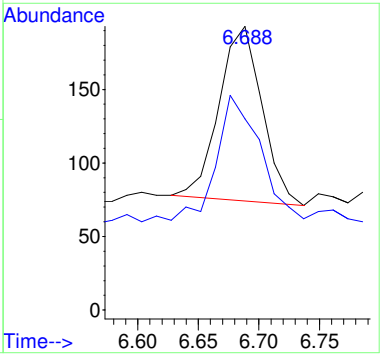


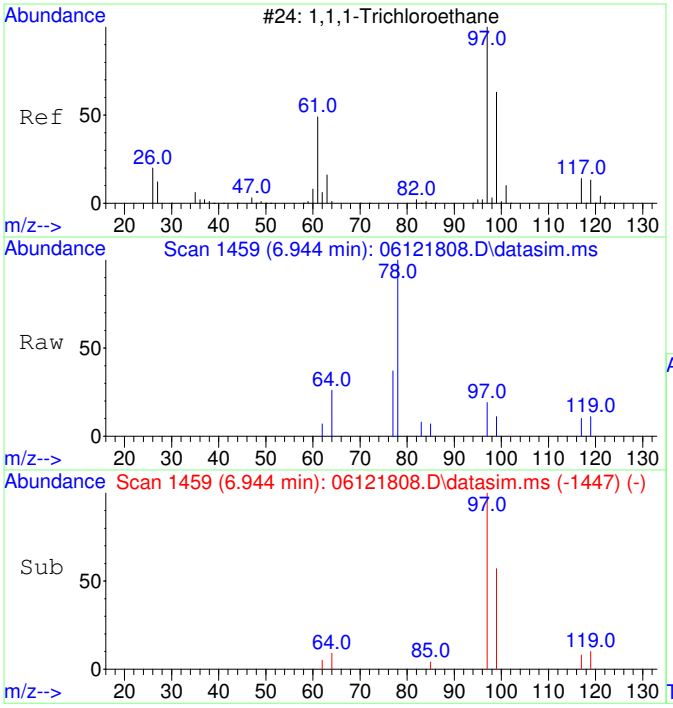


#6
Chloroform
Concen: 54.75 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 292

Ion	Ratio	Lower	Upper
83	100		
85	75.3	34.8	94.8

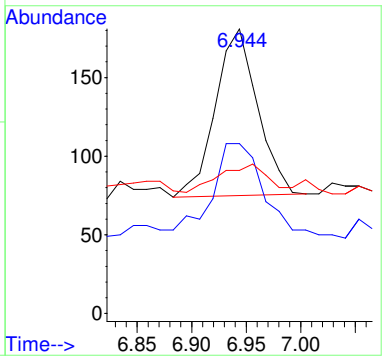


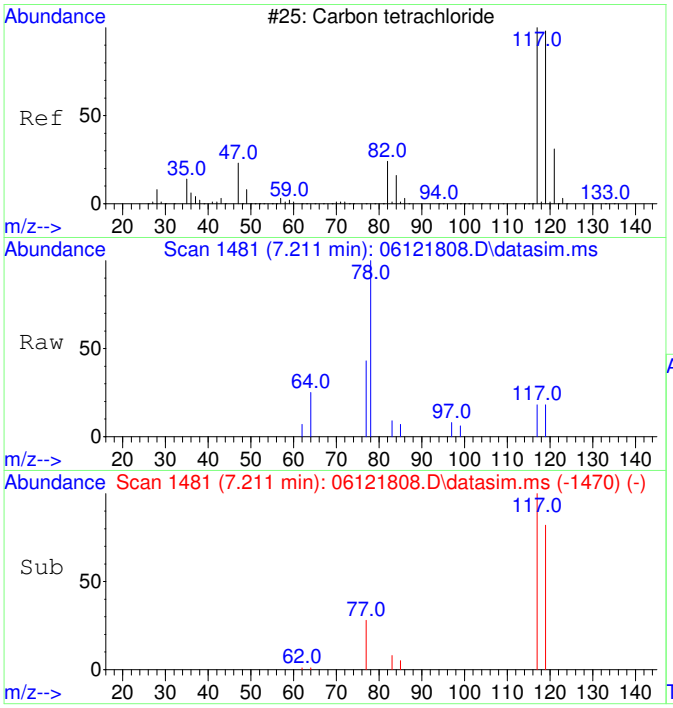


#7
1,1,1-Trichloroethane
Concen: 54.48 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 286

Ion	Ratio	Lower	Upper
97	100		
99	0.0	34.6	94.6#
117	20.3	0.0	42.9

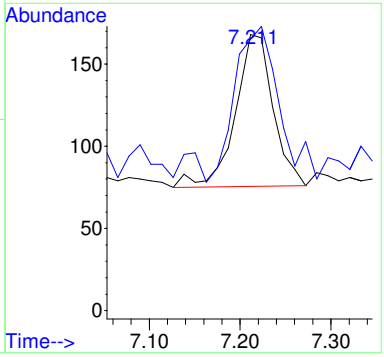


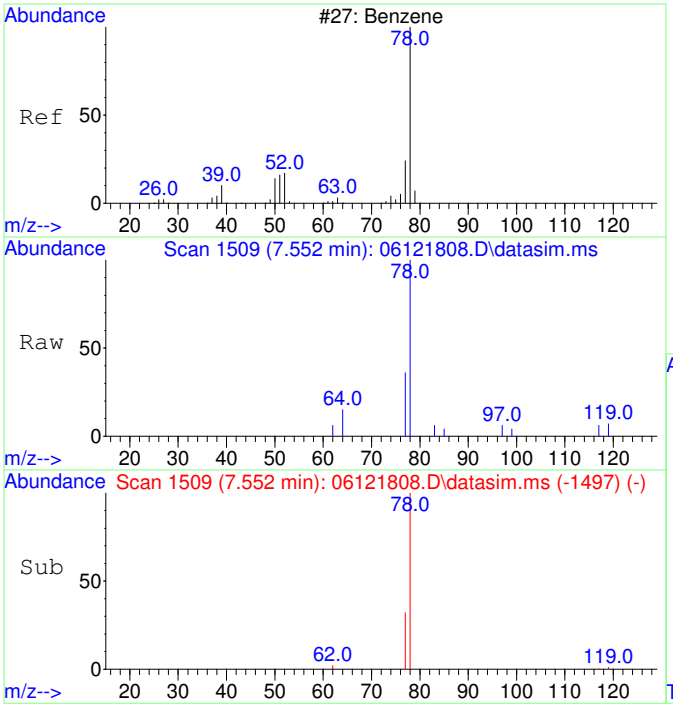


#8
Carbon tetrachloride
Concen: 53.89 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:117 Resp: 268

Ion	Ratio	Lower	Upper
117	100		
119	119.8	65.9	125.9

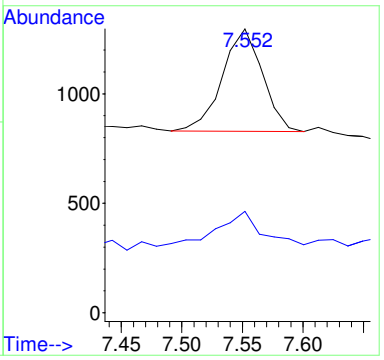


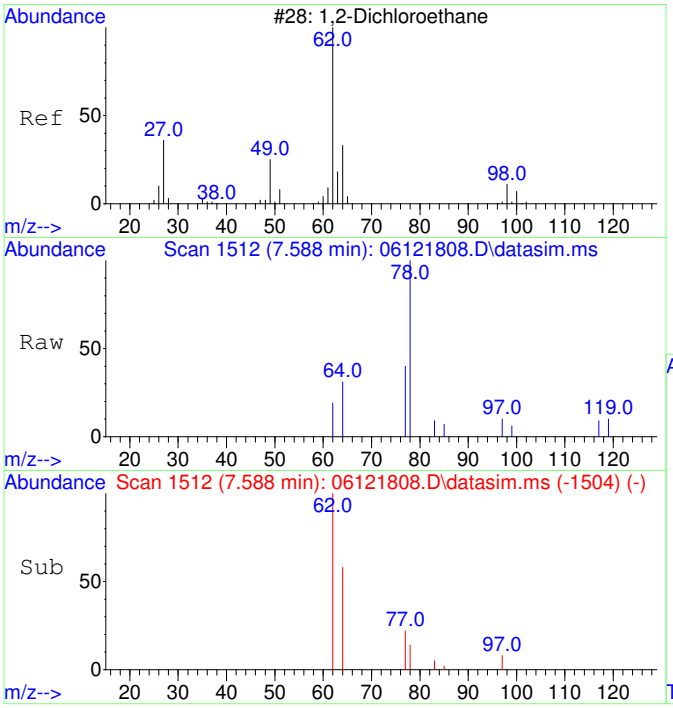


#9
Benzene
Concen: 74.63 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 78 Resp: 1081

Ion	Ratio	Lower	Upper
78	100		
77	53.6	0.0	53.0#

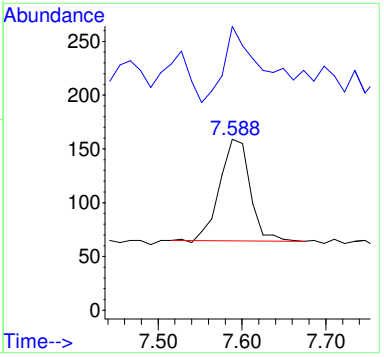


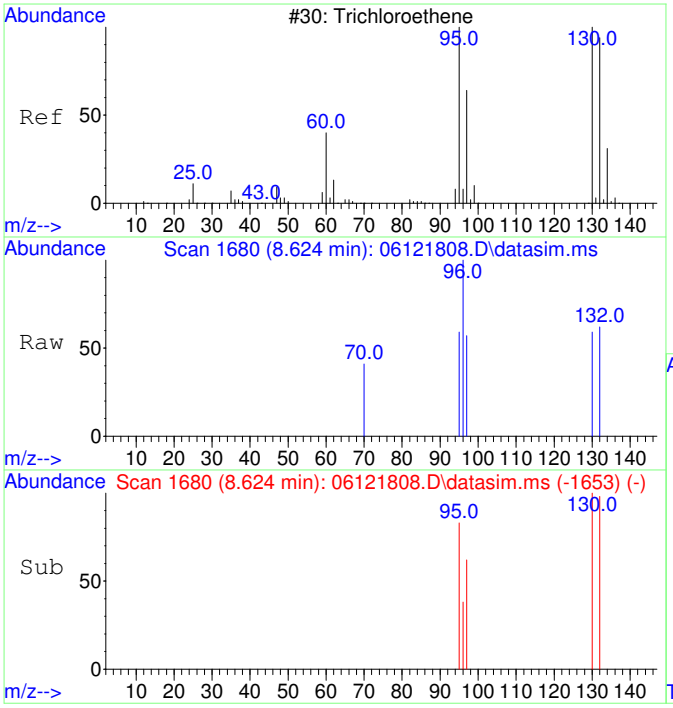


#10
1,2-Dichloroethane
Concen: 50.34 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 62 Resp: 235

Ion	Ratio	Lower	Upper
62	100		
64	97.0	2.3	62.3#

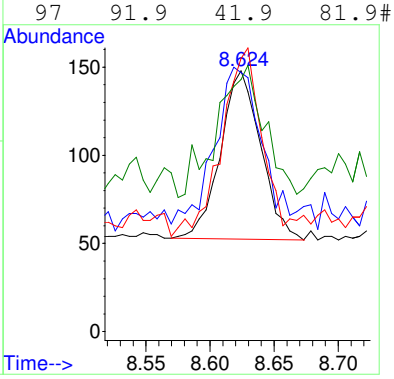


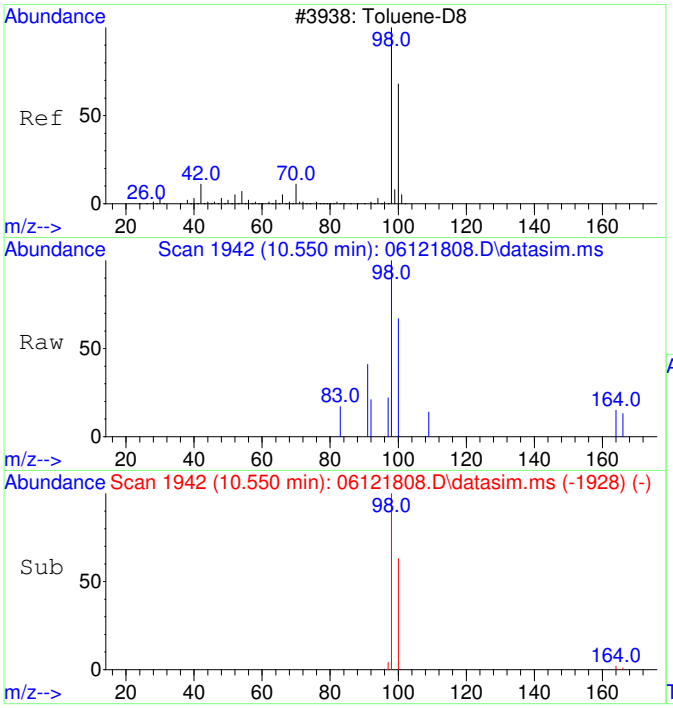


#11
Trichloroethene
Concen: 52.50 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:130 Resp: 209

Ion	Ratio	Lower	Upper
130	100		
95	109.1	66.0	126.0
132	113.4	78.8	118.8
97	91.9	41.9	81.9#

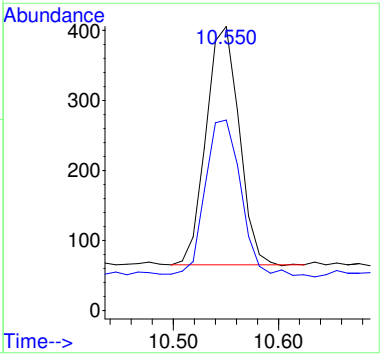


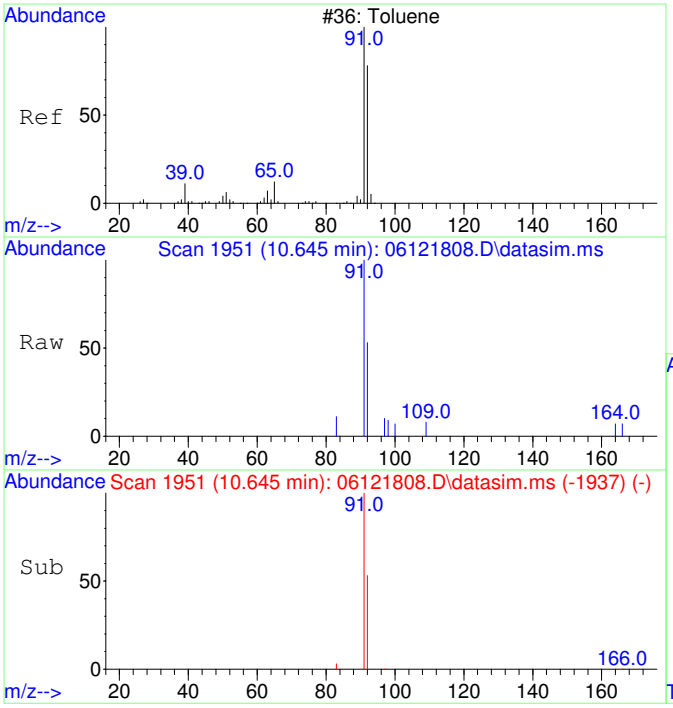


#12
Toluene-d8
Concen: 50.91 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 98 Resp: 746

Ion	Ratio	Lower	Upper
98	100		
100	71.7	38.7	98.7

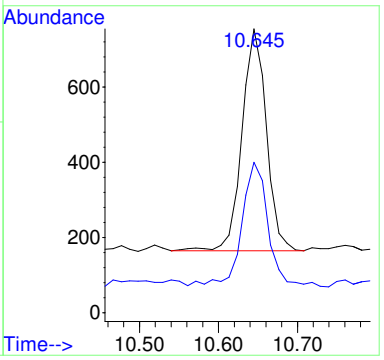


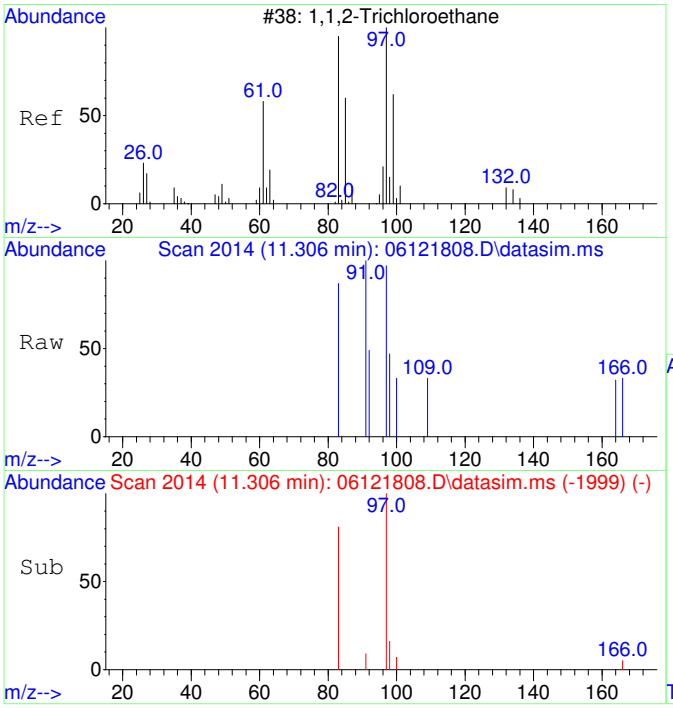


#13
Toluene
Concen: 64.13 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1260

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

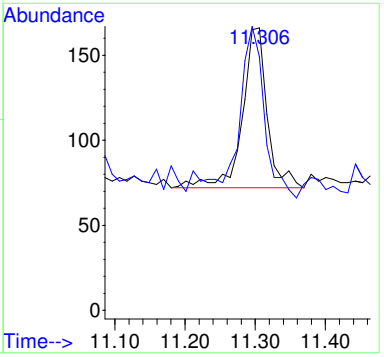


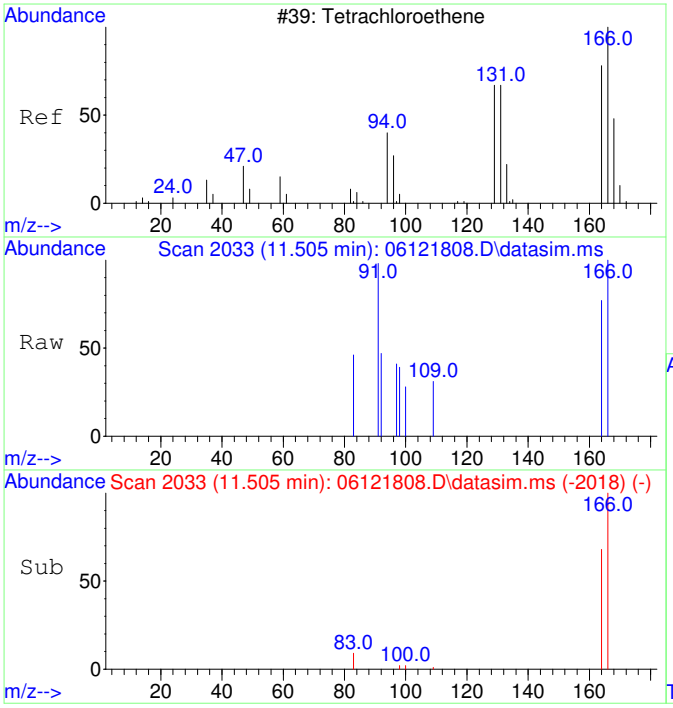


#14
1,1,2-Trichloroethane
Concen: 57.13 ug/L
RT: 11.306 min Scan# 2014
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 232

Ion	Ratio	Lower	Upper
97	100		
83	103.9	53.4	113.4

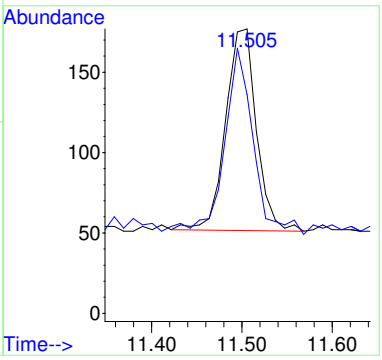


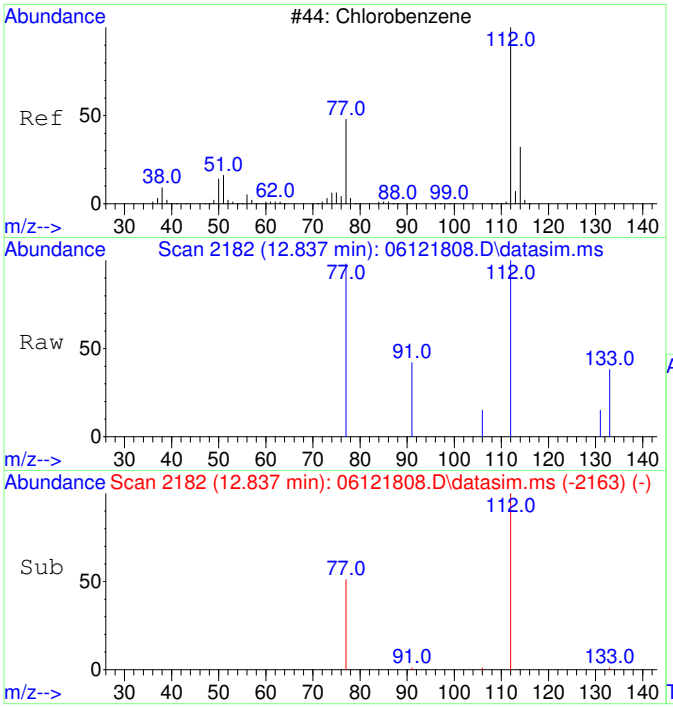


#15
Tetrachloroethene
Concen: 53.83 ug/L
RT: 11.505 min Scan# 2033
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:166 Resp: 298

Ion	Ratio	Lower	Upper
166	100		
164	88.3	47.8	107.8

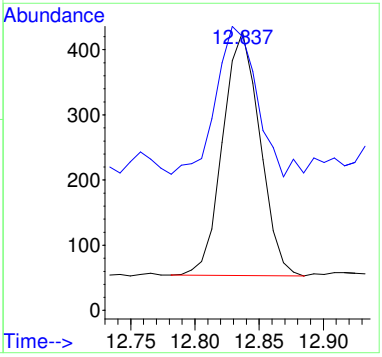


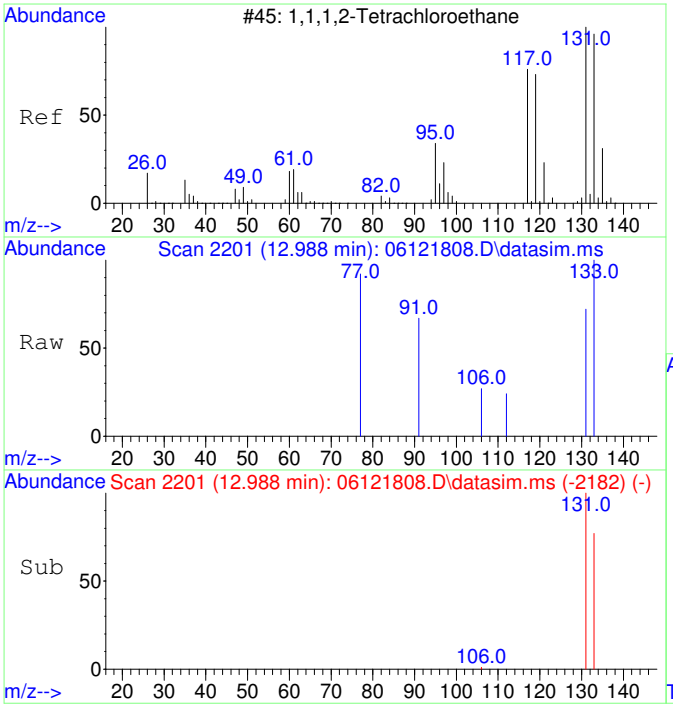


#16
Chlorobenzene
Concen: 53.55 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:112 Resp: 751

Ion	Ratio	Lower	Upper
112	100		
77	66.8	28.1	88.1

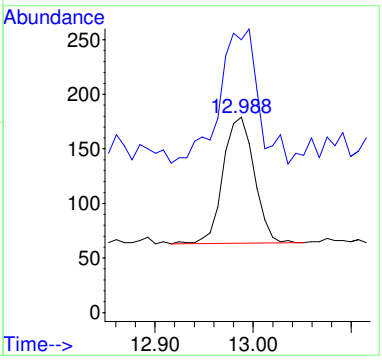


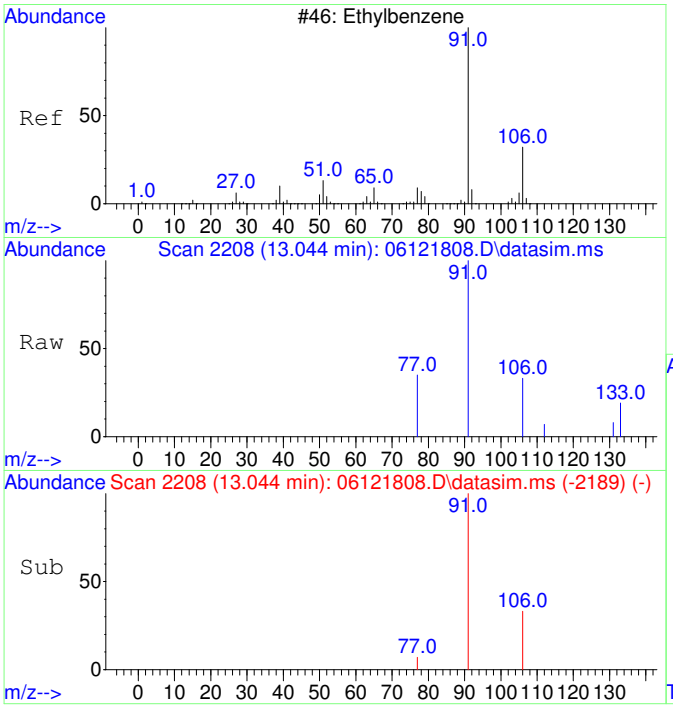


#17
1,1,1,2-Tetrachloroethane
Concen: 53.37 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:131 Resp: 254

Ion	Ratio	Lower	Upper
131	100		
133	130.7	66.2	126.2#

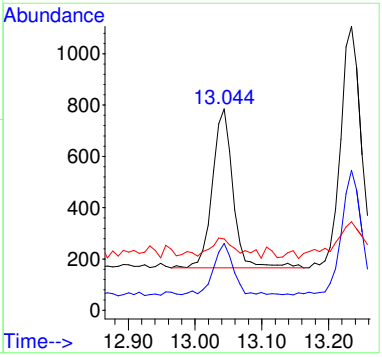


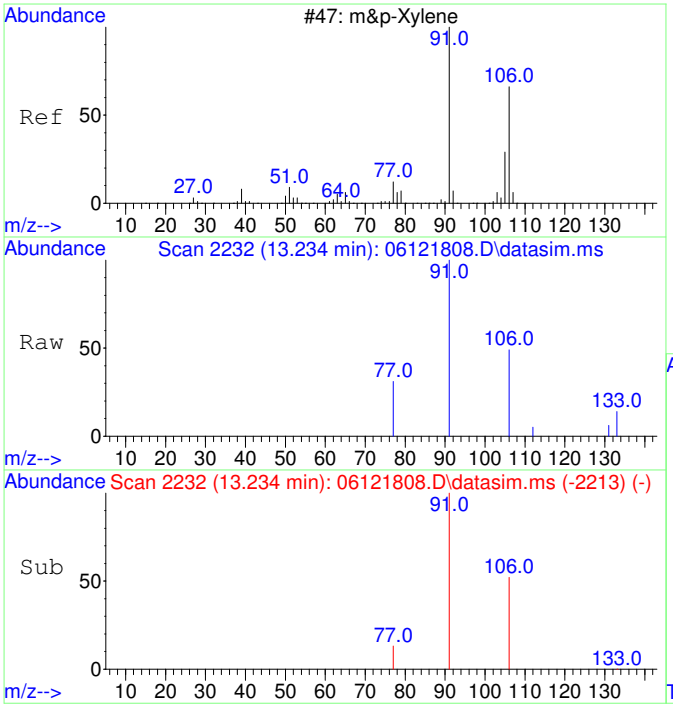


#18
Ethylbenzene
Concen: 55.98 ug/L
RT: 13.044 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1320

Ion	Ratio	Lower	Upper
91	100		
106	30.8	2.8	62.8
77	16.7	0.0	38.6

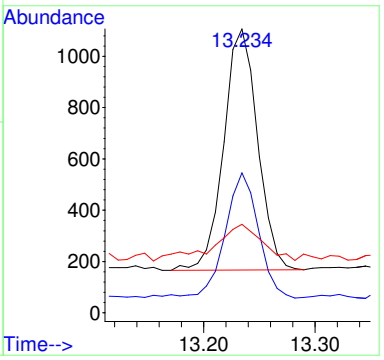


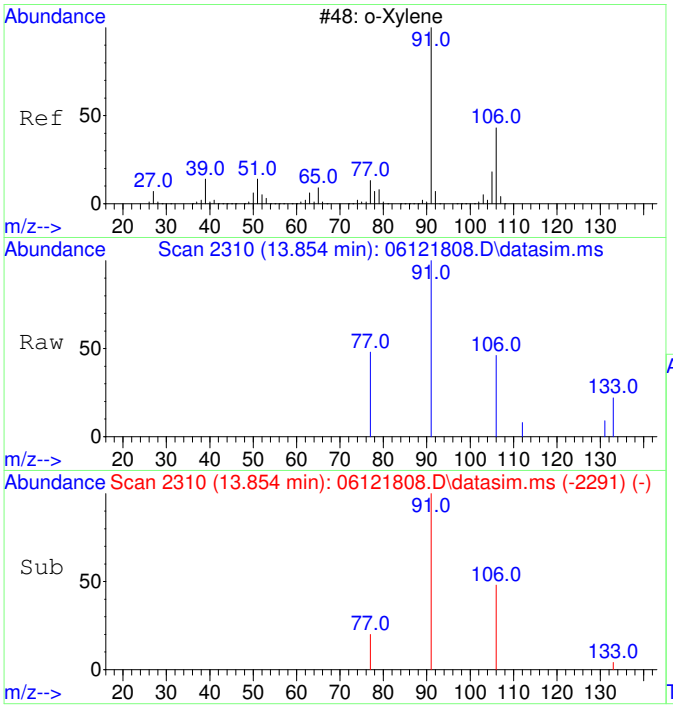


#19
m&p-Xylene
Concen: 109.24 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1988

Ion	Ratio	Lower	Upper
91	100		
106	50.8	21.2	81.2
77	21.7	0.0	42.9

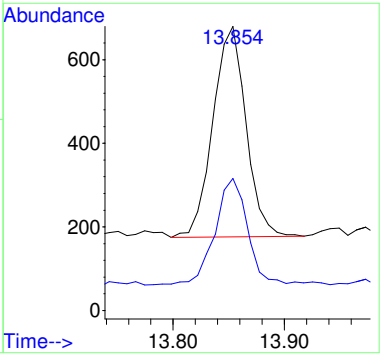


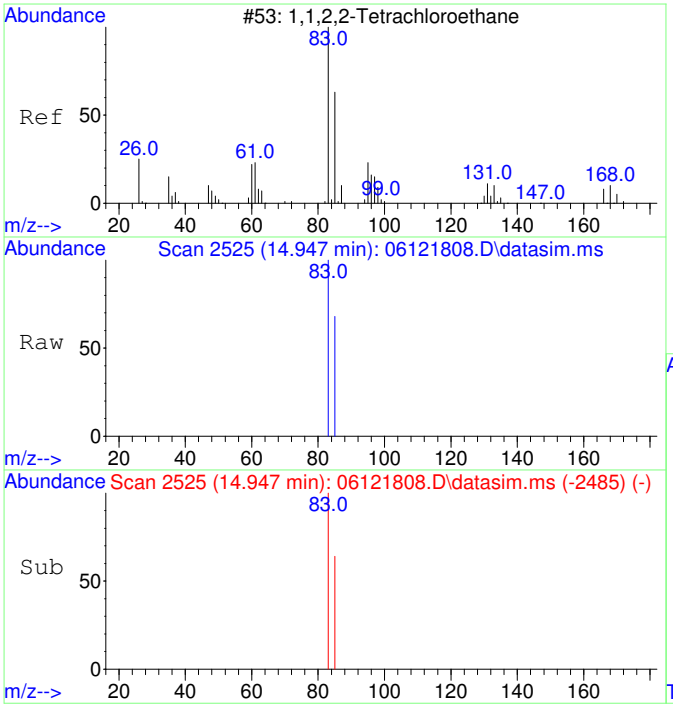


#20
o-Xylene
Concen: 53.86 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1038

Ion	Ratio	Lower	Upper
91	100		
106	50.4	18.3	78.3

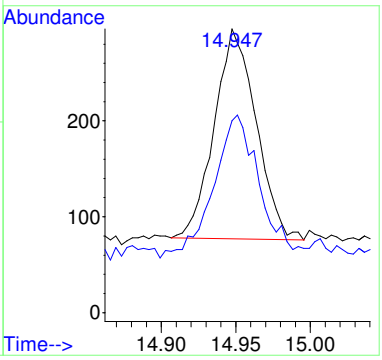


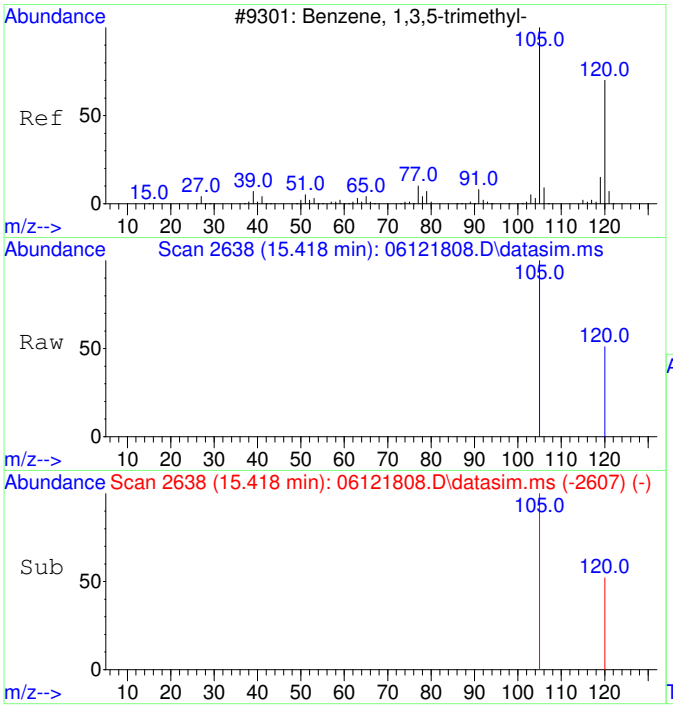


#21
1,1,2,2-Tetrachloroethane
Concen: 51.56 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.003 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 428

Ion	Ratio	Lower	Upper
83	100		
85	75.0	34.4	94.4

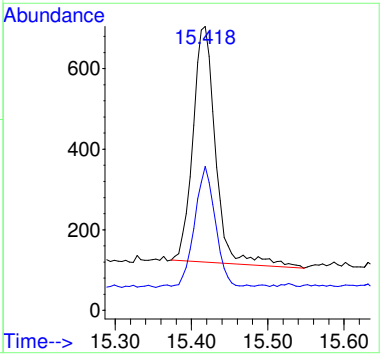


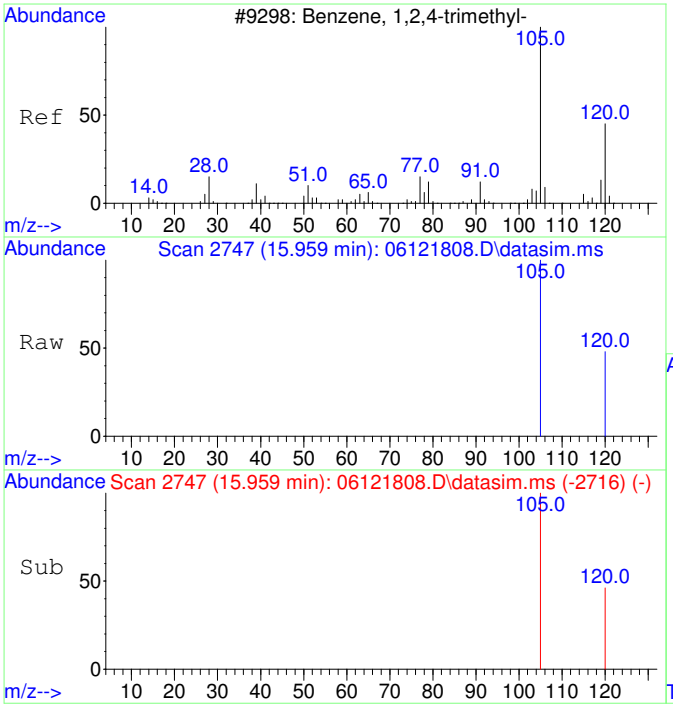


#22
1,3,5-Trimethylbenzene
Concen: 55.30 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1206

Ion	Ratio	Lower	Upper
105	100		
120	45.8	19.1	79.1

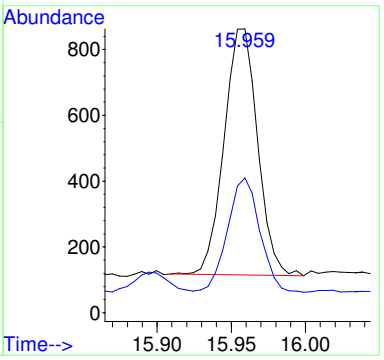


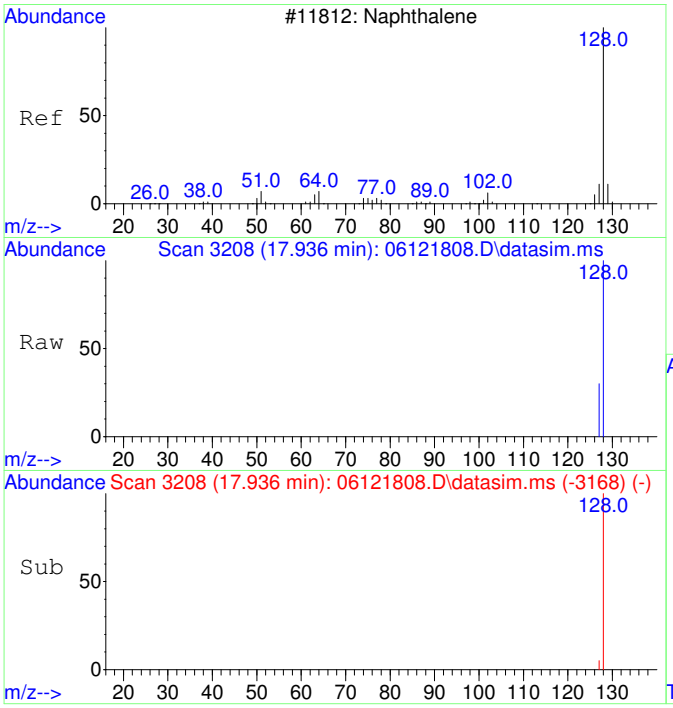


#23
1,2,4-Trimethylbenzene
Concen: 53.87 ug/L
RT: 15.959 min Scan# 2747
Delta R.T. 0.004 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1175

Ion	Ratio	Lower	Upper
105	100		
120	44.3	15.5	75.5

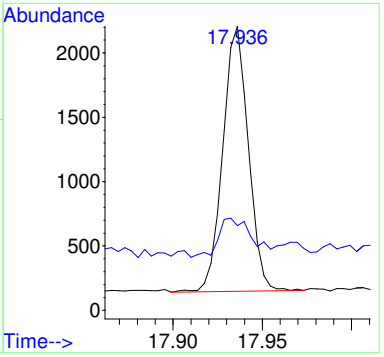


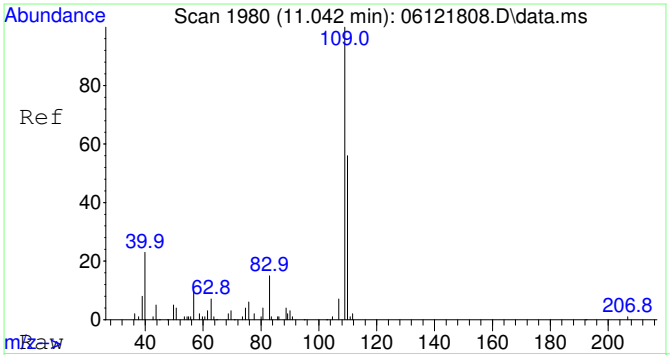


#24
Naphthalene
Concen: 57.15 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:128 Resp: 2046

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	42.5

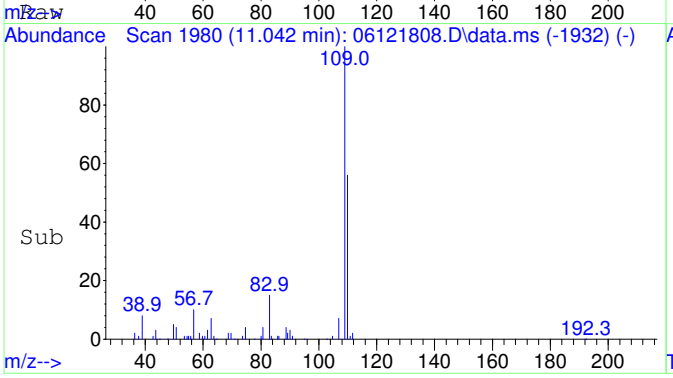


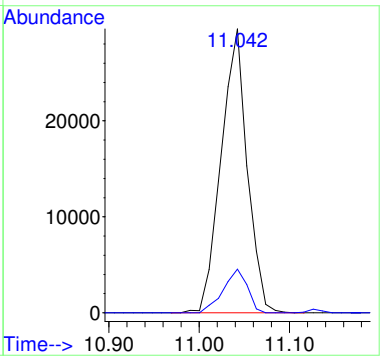


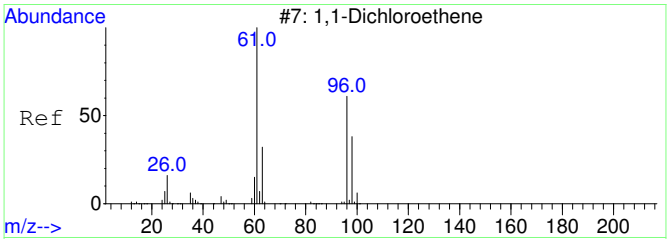
#25
2-Fluorotoluene SCAN
Concen: 5683.26 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:109 Resp: 59747

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	45.7



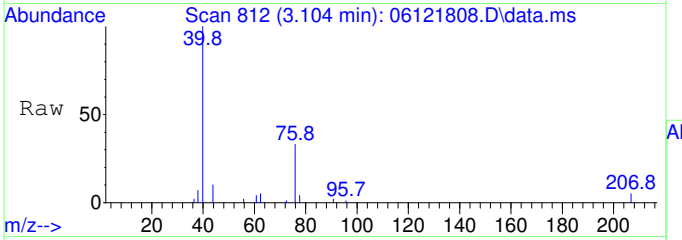


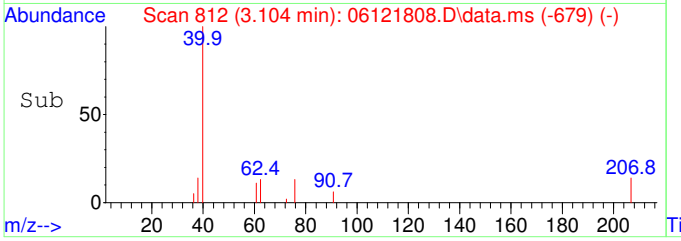


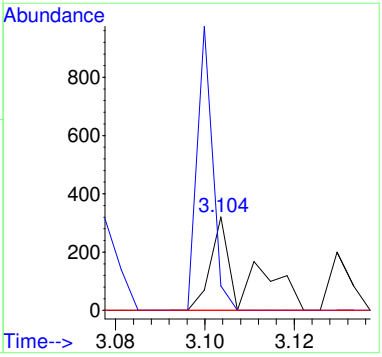
#26
1,1-Dichloroethene SCAN
Concen: 65.95 ug/L
RT: 3.104 min Scan# 812
Delta R.T. -0.007 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

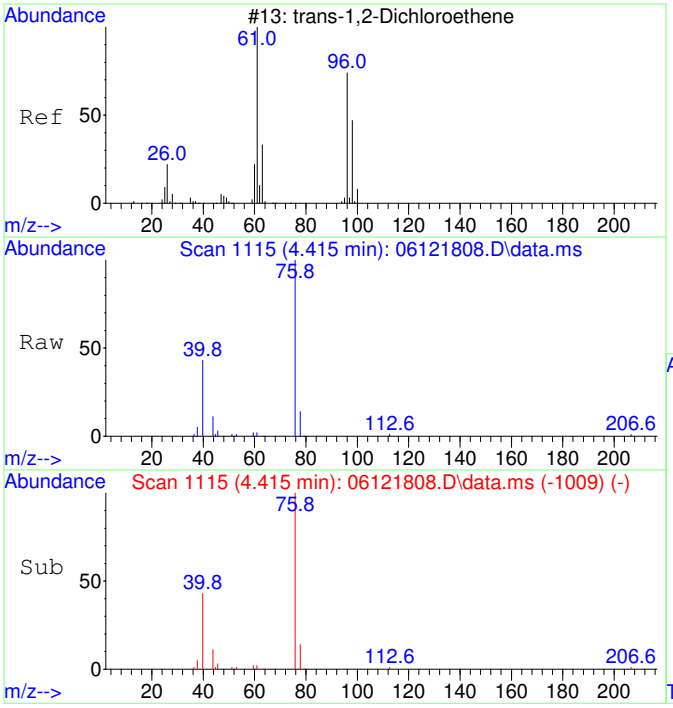
Tgt Ion: 61 Resp: 173

Ion	Ratio	Lower	Upper
61	100		
96	136.4	23.8	83.8#
98	0.0	8.8	68.8#





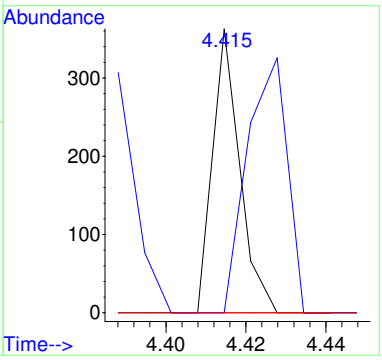


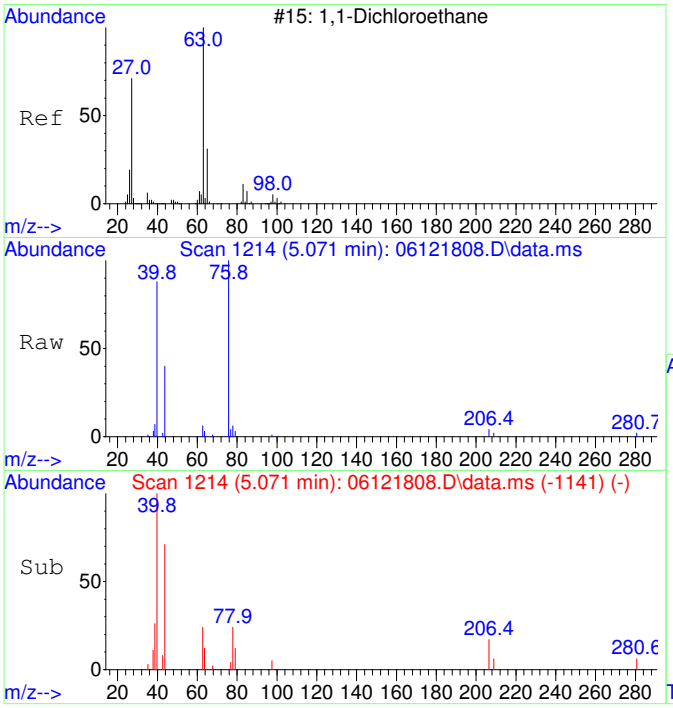


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.99 ug/L
RT: 4.415 min Scan# 1115
Delta R.T. 0.080 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 171

Ion	Ratio	Lower	Upper
61	100		
96	132.2	37.9	97.9#
98	0.0	12.7	72.7#

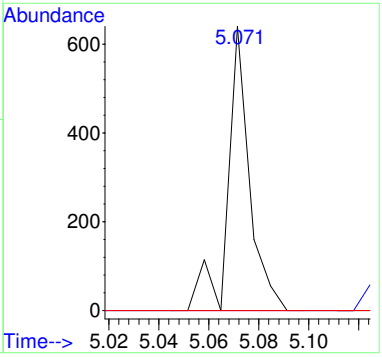


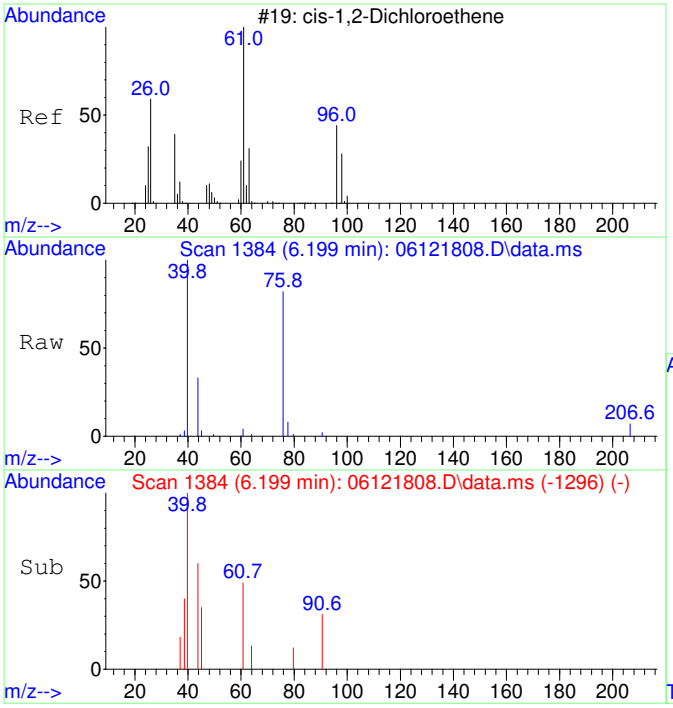


#28
1,1-Dichloroethane SCAN
Concen: 99.35 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. -0.013 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 63 Resp: 386

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

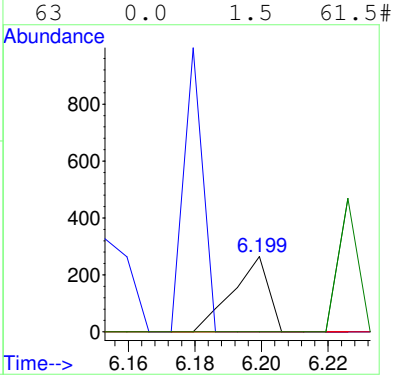


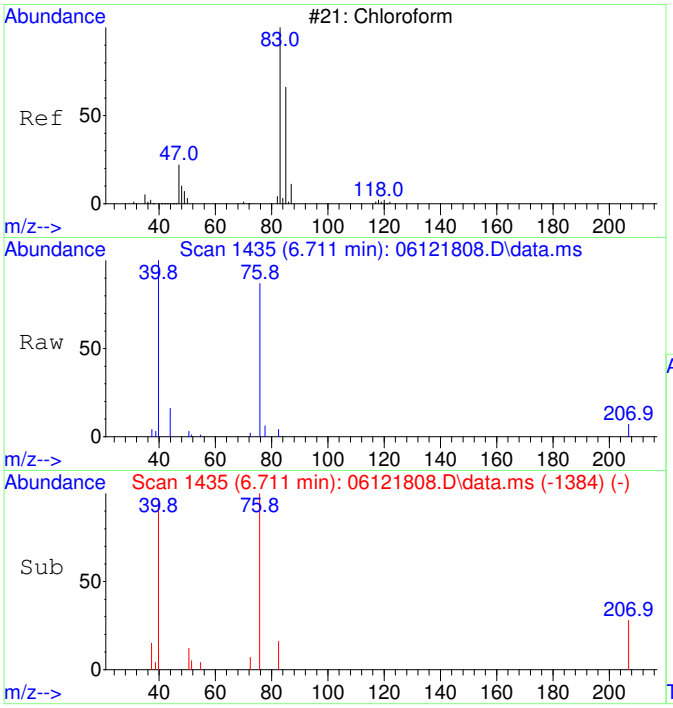


#29
cis-1,2-Dichloroethene SCAN
Concen: 59.52 ug/L
RT: 6.199 min Scan# 1384
Delta R.T. 0.086 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 200

Ion	Ratio	Lower	Upper
61	100		
96	198.5	28.2	88.2#
98	0.0	14.1	74.1#
63	0.0	1.5	61.5#

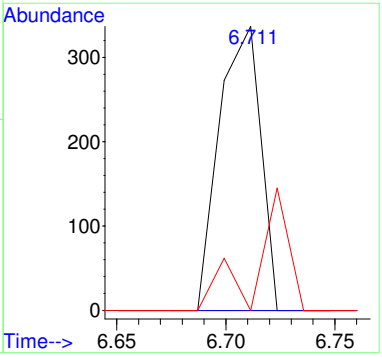


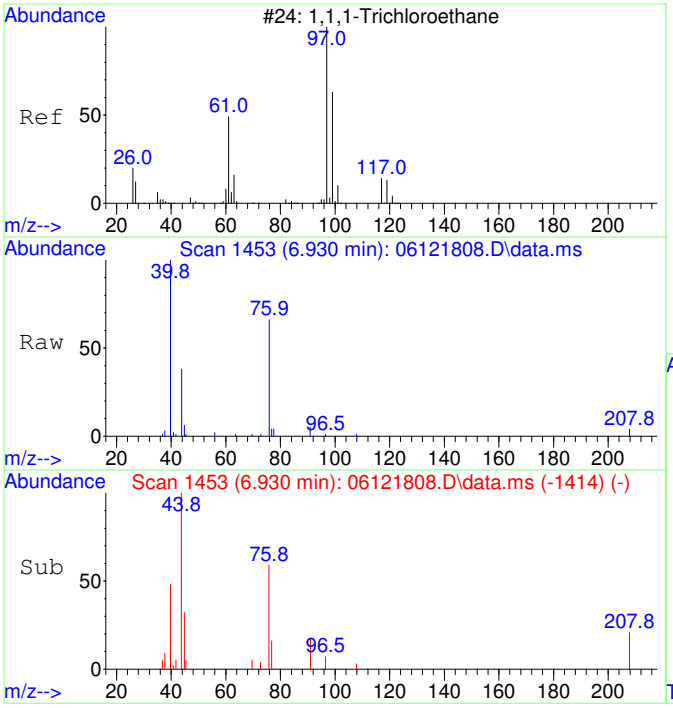


#30
Chloroform SCAN
Concen: 107.89 ug/L
RT: 6.711 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 445

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	33.9	0.0	57.9

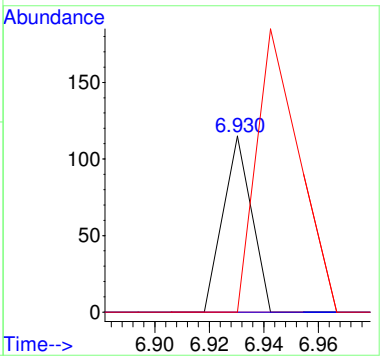


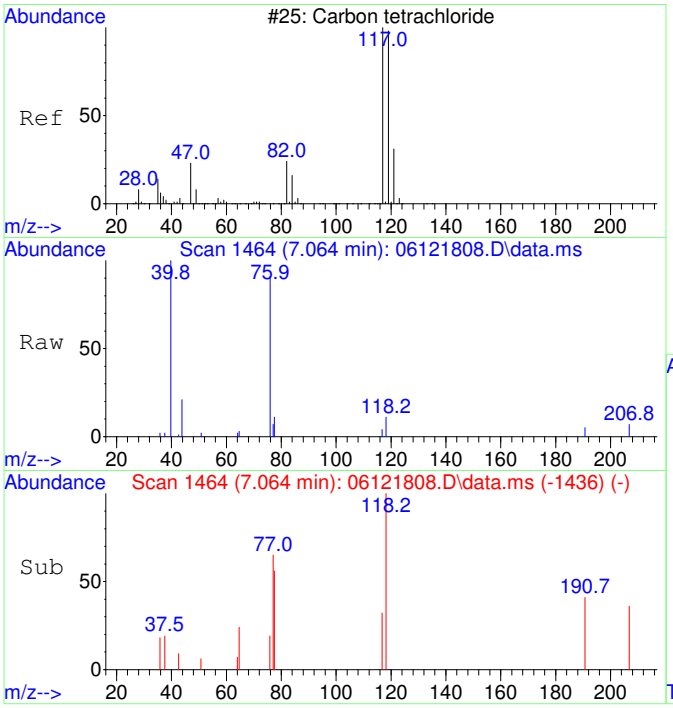


#31
1,1,1-Trichloroethane SCAN
Concen: 22.88 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. -0.024 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 84

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	239.3	15.1	75.1#

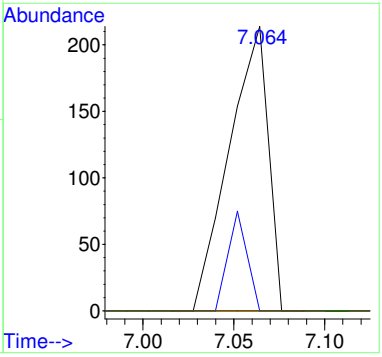


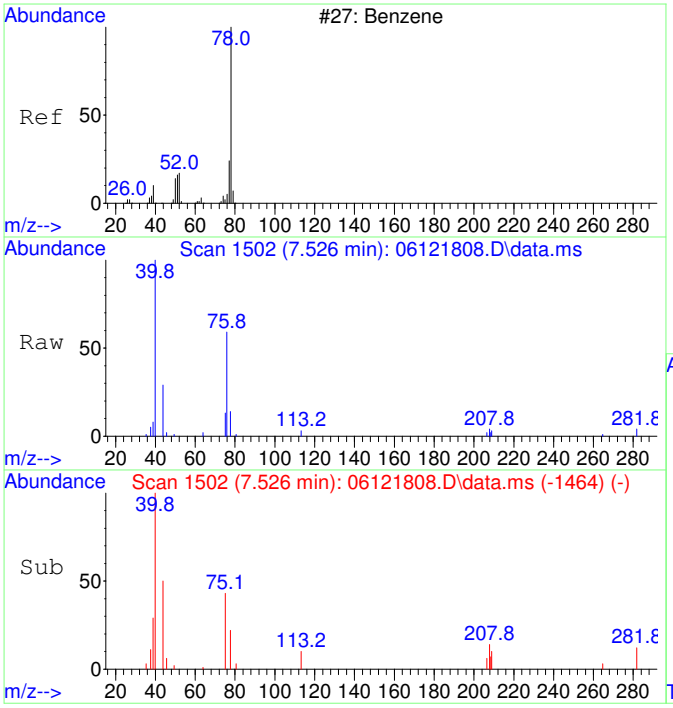


#32
Carbon tetrachloride SCAN
Concen: 88.46 ug/L
RT: 7.064 min Scan# 1464
Delta R.T. -0.158 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:117 Resp: 320

Ion	Ratio	Lower	Upper
117	100		
119	17.2	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

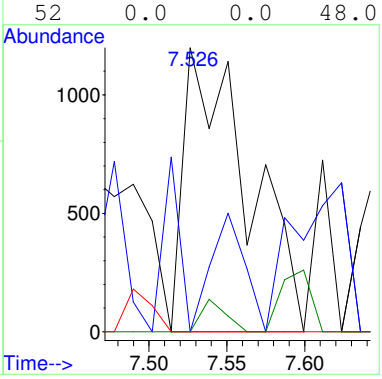


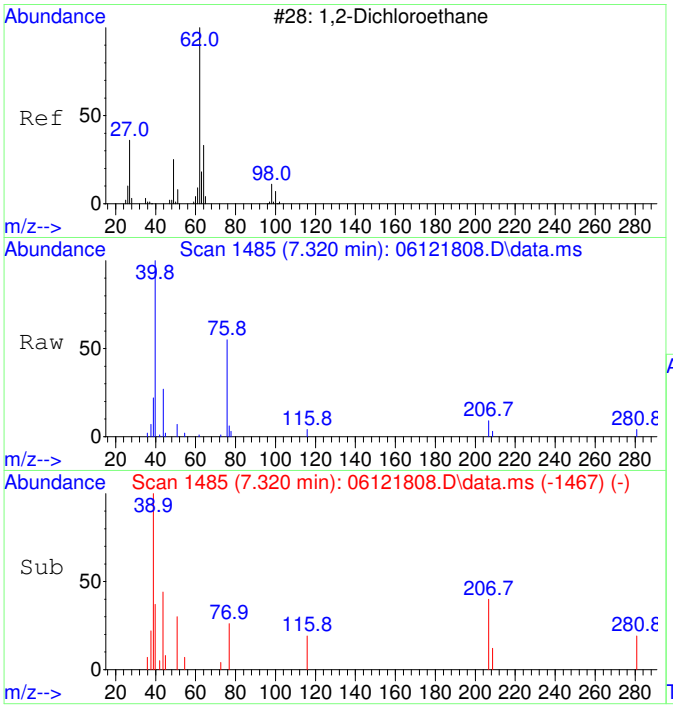


#33
Benzene SCAN
Concen: 314.93 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. -0.036 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 78 Resp: 3448

Ion	Ratio	Lower	Upper
78	100		
77	15.6	3.0	63.0
51	0.0	0.0	56.4
52	0.0	0.0	48.0

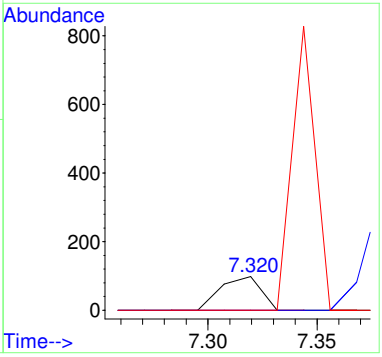


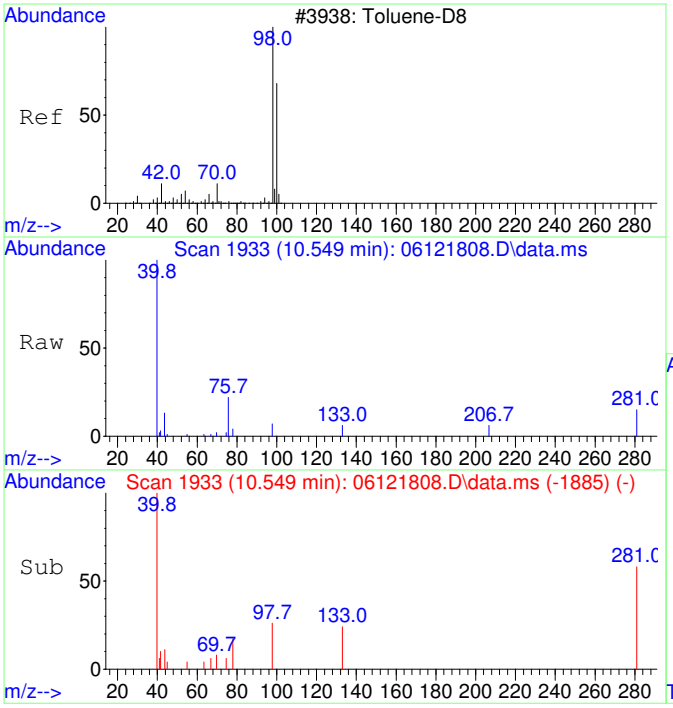


#34
1,2-Dichloroethane SCAN
Concen: 34.01 ug/L
RT: 7.320 min Scan# 1485
Delta R.T. -0.280 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 62 Resp: 127

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	0.0	10.4	70.4#

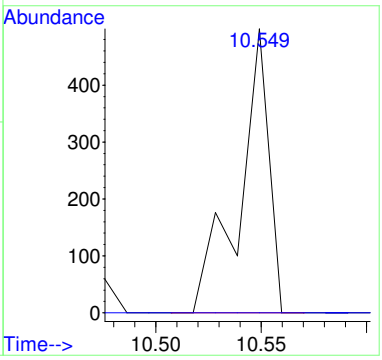


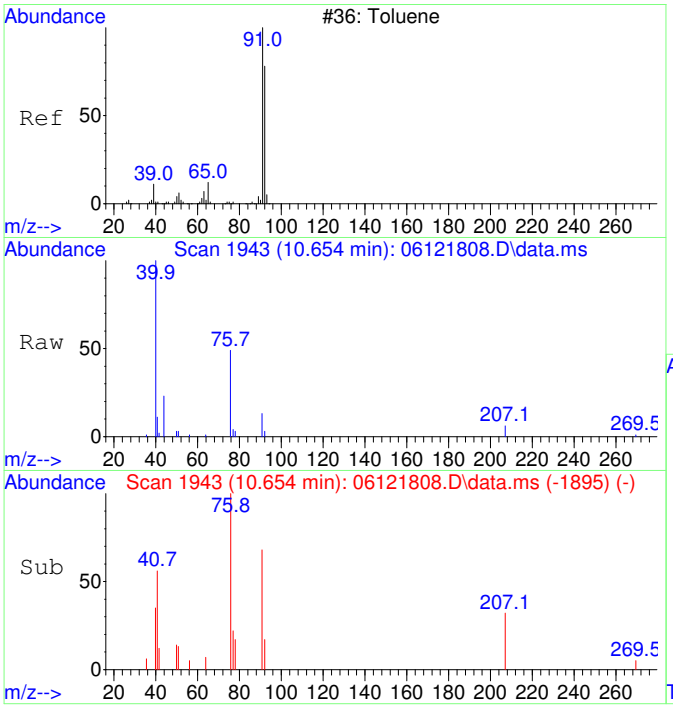


#36
Toluene-d8 SCAN
Concen: 51.35 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 98 Resp: 488

Ion	Ratio	Lower	Upper
98	100		
100	0.0	39.5	99.5#

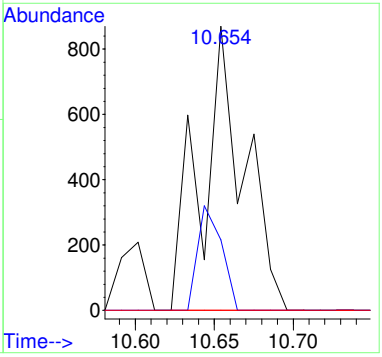


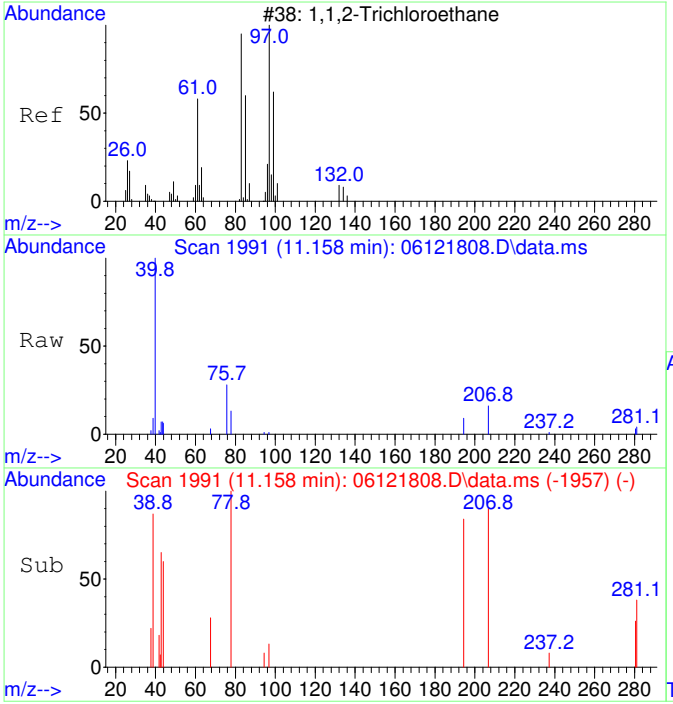


#37
Toluene SCAN
Concen: 135.67 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1647

Ion	Ratio	Lower	Upper
91	100		
92	20.5	26.6	86.6#
65	0.0	0.0	42.3

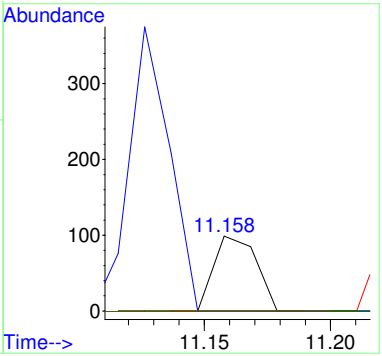


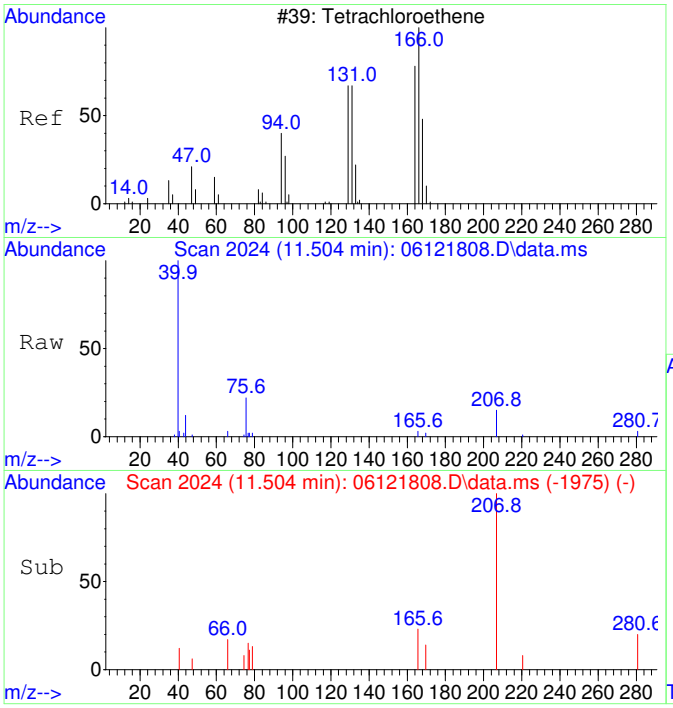


#38
1,1,2-Trichloroethane SCAN
Concen: 49.87 ug/L
RT: 11.158 min Scan# 1991
Delta R.T. -0.147 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 116

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

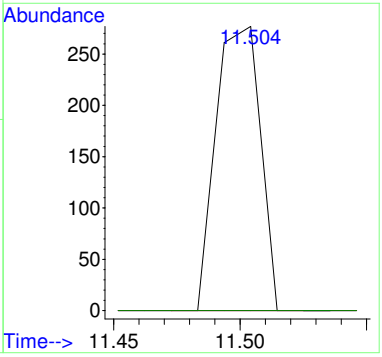


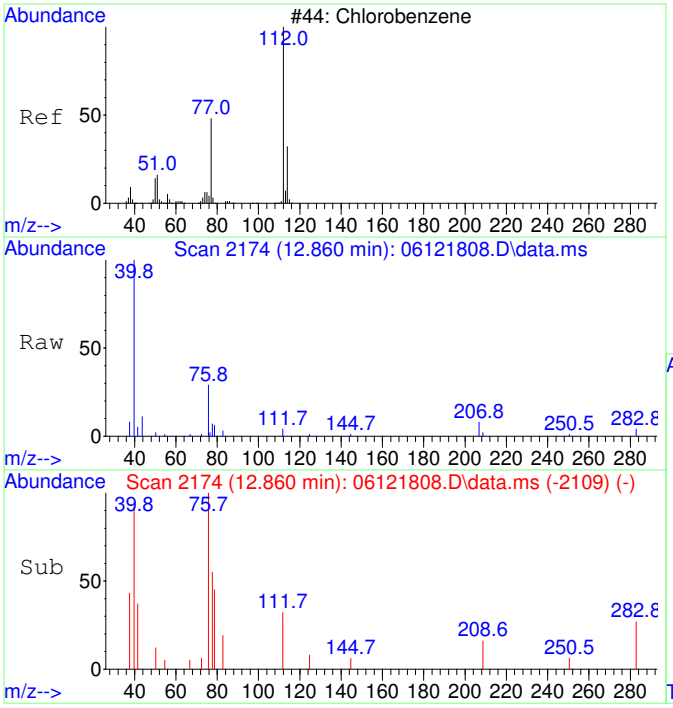


#39
Tetrachloroethene SCAN
Concen: 127.26 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:166 Resp: 339

Ion	Ratio	Lower	Upper
166	100		
164	0.0	43.3	103.3#
131	0.0	35.6	95.6#
129	0.0	36.6	96.6#

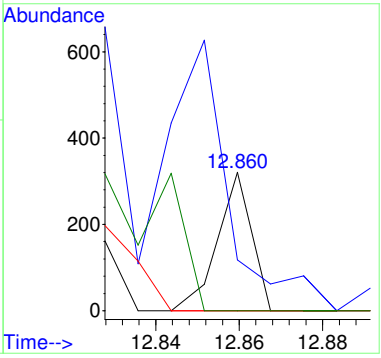


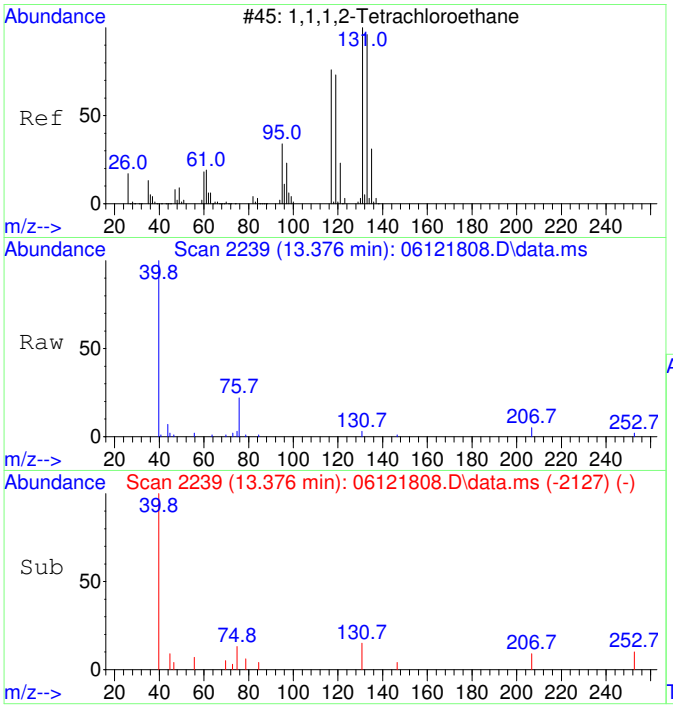


#40
Chlorobenzene SCAN
Concen: 24.71 ug/L
RT: 12.860 min Scan# 2174
Delta R.T. 0.016 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:112 Resp: 182

Ion	Ratio	Lower	Upper
112	100		
77	261.0	28.4	88.4#
114	0.0	0.0	59.5
51	206.6	0.0	53.7#

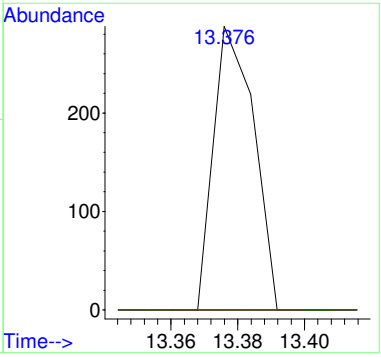


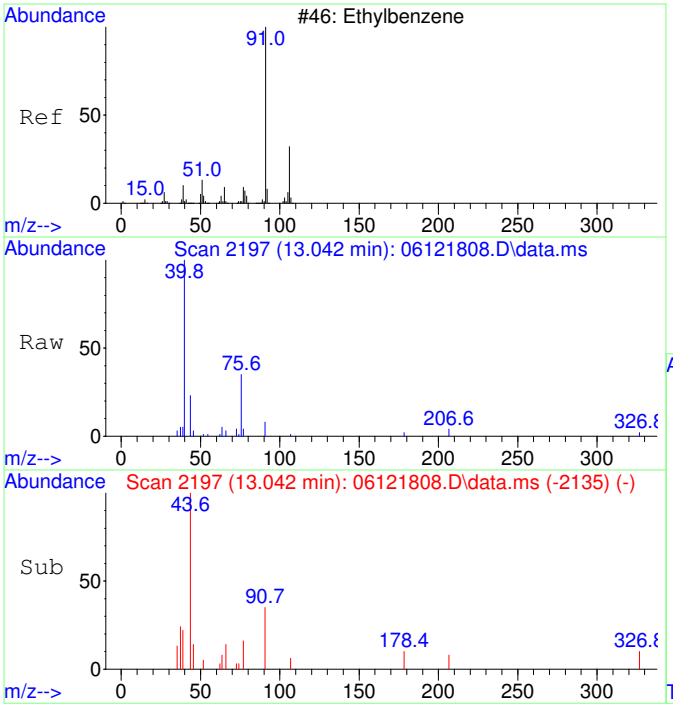


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 92.06 ug/L
RT: 13.376 min Scan# 2239
Delta R.T. 0.389 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:131 Resp: 242

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

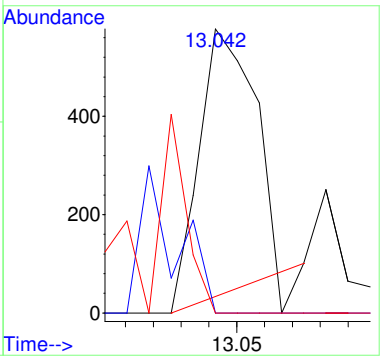


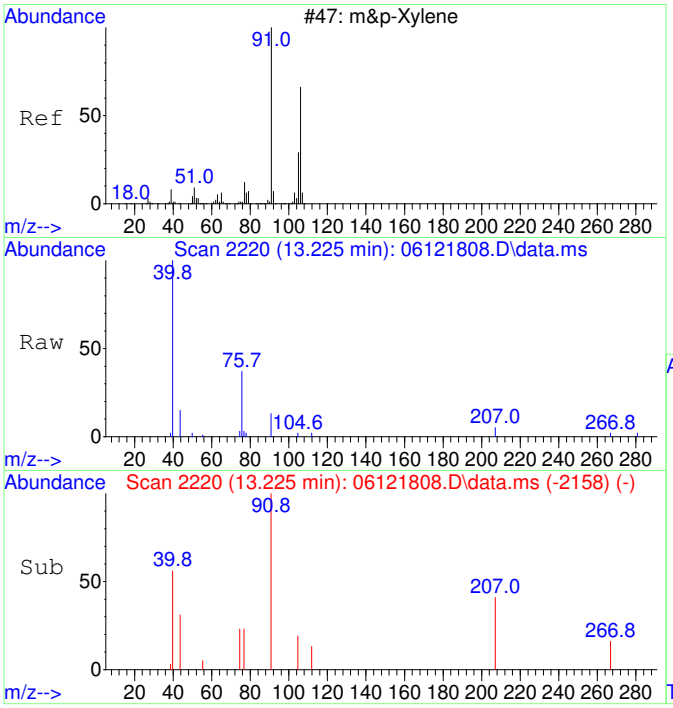


#42
Ethylbenzene SCAN
Concen: 52.51 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 741

Ion	Ratio	Lower	Upper
91	100		
106	0.0	3.2	63.2#
51	0.0	0.0	40.1

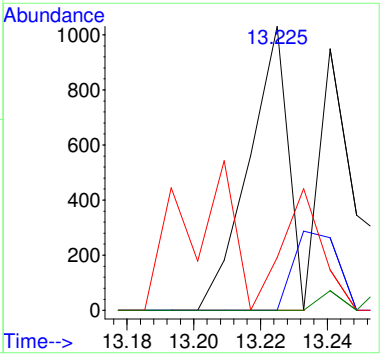


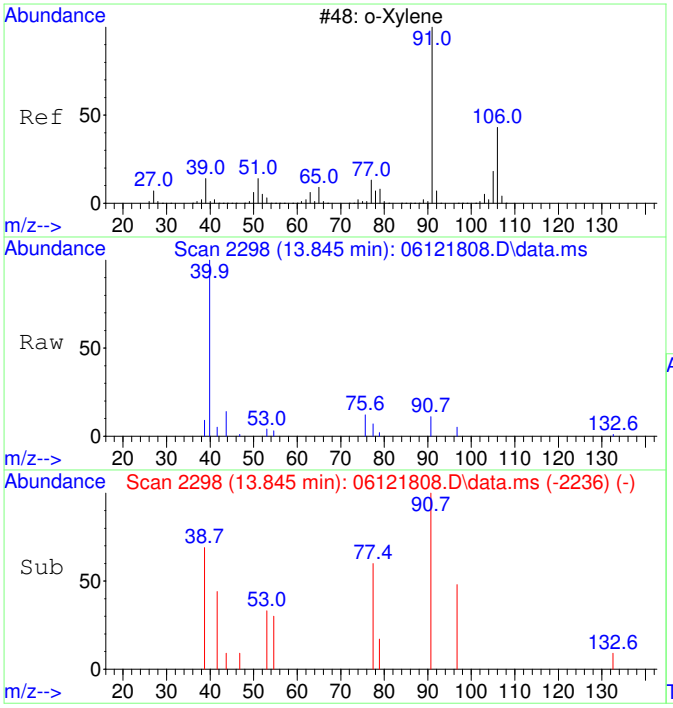


#43
m&p-Xylene SCAN
Concen: 43.14 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 845

Ion	Ratio	Lower	Upper
91	100		
106	31.1	20.1	80.1
105	44.0	0.0	51.1
51	0.0	0.0	40.7

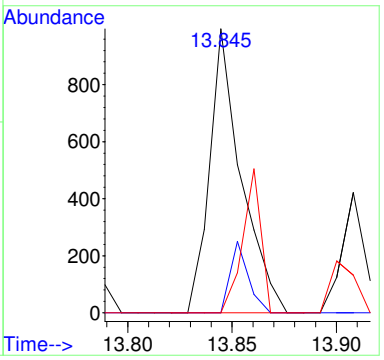


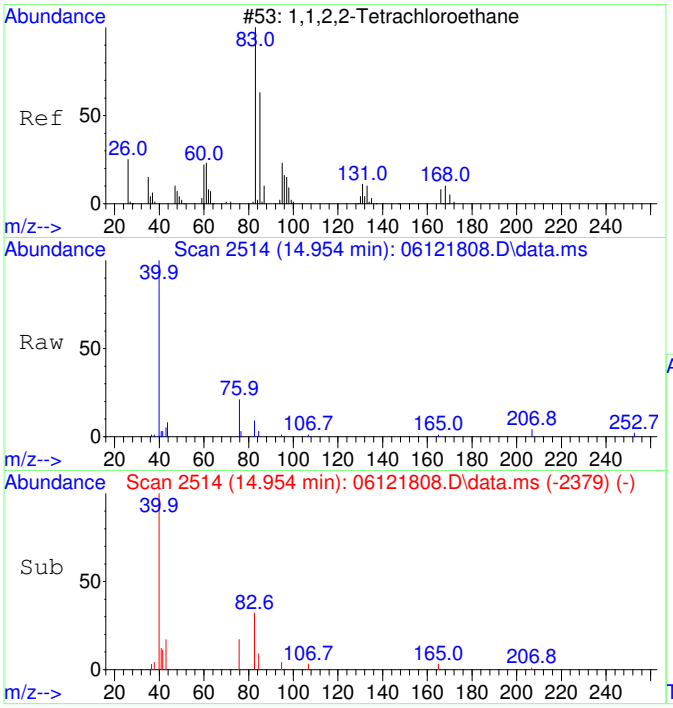


#44
o-Xylene SCAN
Concen: 94.19 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1050

Ion	Ratio	Lower	Upper
91	100		
106	14.3	21.3	81.3#
105	29.3	0.0	55.2

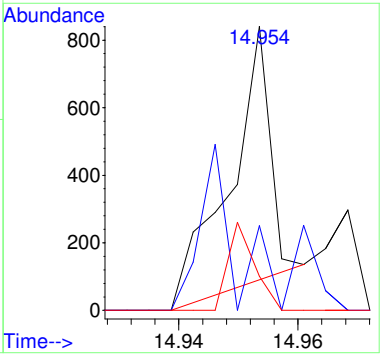


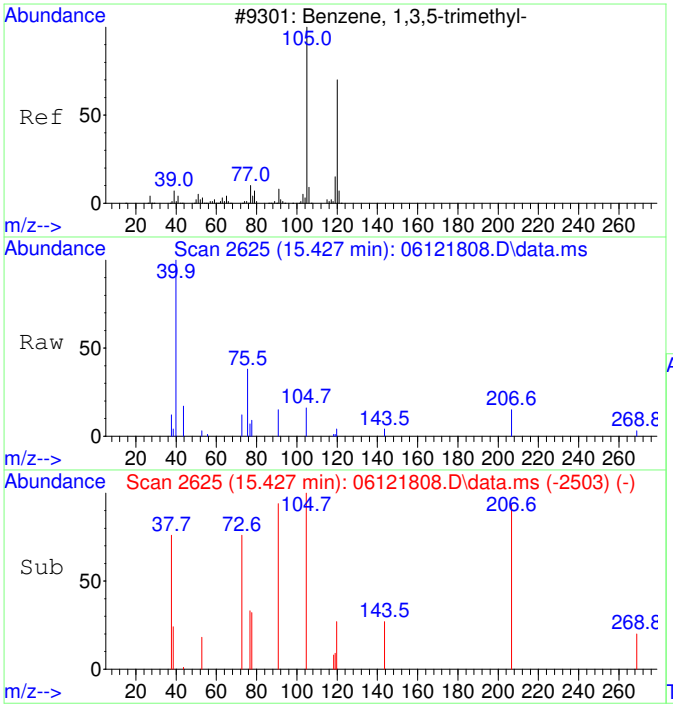


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 68.13 ug/L
RT: 14.954 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 360

Ion	Ratio	Lower	Upper
83	100		
85	54.7	31.6	91.6
95	22.5	0.0	49.0

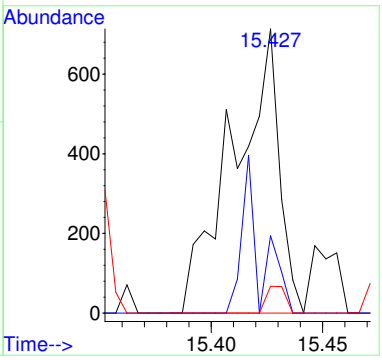


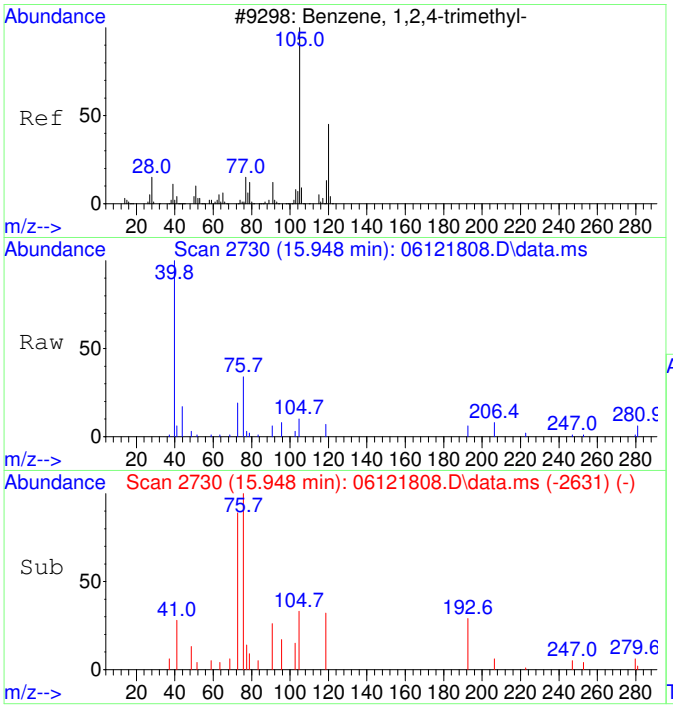


#46
1,3,5-Trimethylbenzene SCAN
Concen: 92.46 ug/L
RT: 15.427 min Scan# 2625
Delta R.T. 0.014 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1022

Ion	Ratio	Lower	Upper
105	100		
120	22.7	16.8	76.8
119	0.0	0.0	41.5

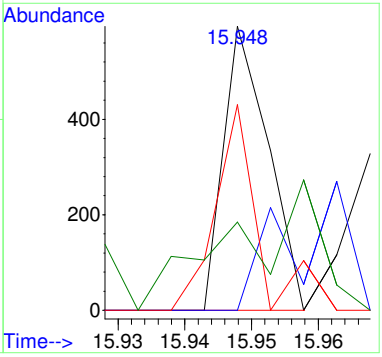


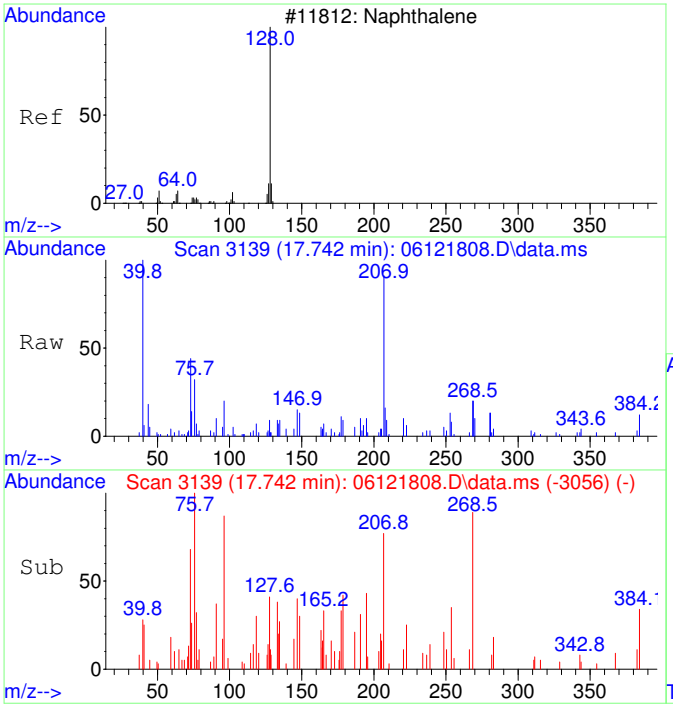


#47
1,2,4-Trimethylbenzene SCAN
Concen: 24.45 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. -0.006 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 277

Ion	Ratio	Lower	Upper
105	100		
120	58.1	15.4	75.4
119	69.0	0.0	41.7#
77	86.3	0.0	42.0#

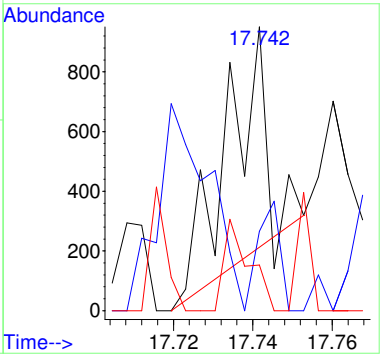




#48
Naphthalene SCAN
Concen: 33.66 ug/L
RT: 17.742 min Scan# 3139
Delta R.T. -0.193 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:128 Resp: 544

Ion	Ratio	Lower	Upper
128	100		
127	25.9	0.0	43.9
129	24.8	0.0	40.5



Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121808.D
Acq On : 12 Jun 2018 15:42
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL6
Misc : 1823103 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 14 17:06:14 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration

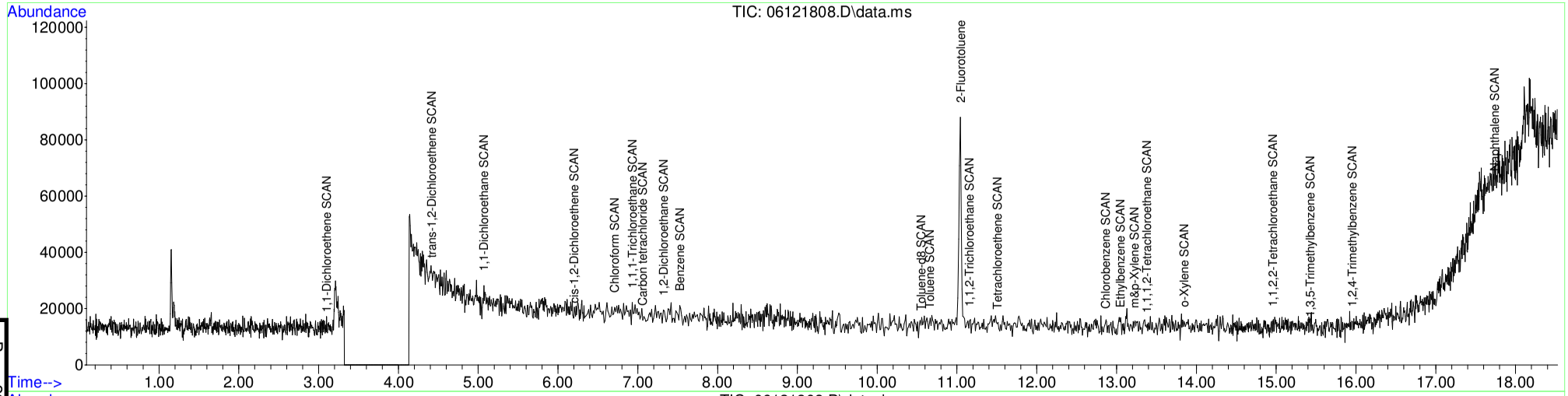
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	90218	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	746	50.91 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.02%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	568	147.16 ug/L #	48
3] trans-1,2-Dichloroethene	4.310	61	194	48.09 ug/L	87
4] 1,1-Dichloroethane	5.073	63	250	49.79 ug/L	89
5] cis-1,2-Dichloroethene	6.108	61	267	53.90 ug/L	96
6] Chloroform	6.688	83	292	54.75 ug/L	87
7] 1,1,1-Trichloroethane	6.944	97	286	54.48 ug/L #	28
8] Carbon tetrachloride	7.211	117	268	53.89 ug/L	76
9] Benzene	7.552	78	1081	74.63 ug/L #	37
10] 1,2-Dichloroethane	7.588	62	235	50.34 ug/L #	1
11] Trichloroethene	8.624	130	209	52.50 ug/L #	80
13] Toluene	10.645	91	1260	64.13 ug/L	100
14] 1,1,2-Trichloroethane	11.306	97	232	57.13 ug/L	77
15] Tetrachloroethene	11.505	166	298	53.83 ug/L	88
16] Chlorobenzene	12.837	112	751	53.55 ug/L	88
17] 1,1,1,2-Tetrachloroethane	12.988	131	254	53.37 ug/L #	65
18] Ethylbenzene	13.044	91	1320	55.98 ug/L	92
19] m&p-Xylene	13.234	91	1988	109.24 ug/L	95
20] o-Xylene	13.854	91	1038	53.86 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.947	83	428	51.56 ug/L	86
22] 1,3,5-Trimethylbenzene	15.418	105	1206	55.30 ug/L	95
23] 1,2,4-Trimethylbenzene	15.959	105	1175	53.87 ug/L	98
24] Naphthalene	17.936	128	2046	57.15 ug/L	97
25) 2-Fluorotoluene SCAN	11.042	109	59747	5683.26 ug/L	96
26) 1,1-Dichloroethene SCAN	3.104	61	173	65.95 ug/L #	6
27) trans-1,2-Dichloroethe...	4.415	61	171	55.99 ug/L #	25
28) 1,1-Dichloroethane SCAN	5.071	63	386	99.35 ug/L #	43
29) cis-1,2-Dichloroethene...	6.199	61	200	59.52 ug/L #	1
30) Chloroform SCAN	6.711	83	445	107.89 ug/L #	40
31) 1,1,1-Trichloroethane ...	6.930	97	84	22.88 ug/L #	1
32) Carbon tetrachloride SCAN	7.064	117	320	88.46 ug/L #	23
33) Benzene SCAN	7.526	78	3448	314.93 ug/L #	60
34) 1,2-Dichloroethane SCAN	7.320	62	127	34.01 ug/L #	39
36) Toluene-d8 SCAN	10.549	98	488	51.35 ug/L #	15
37) Toluene SCAN	10.654	91	1647	135.67 ug/L #	54
38) 1,1,2-Trichloroethane ...	11.158	97	116	49.87 ug/L #	10
39) Tetrachloroethene SCAN	11.504	166	339	127.26 ug/L #	15
40) Chlorobenzene SCAN	12.860	112	182	24.71 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	13.376	131	242	92.06 ug/L #	13
42) Ethylbenzene SCAN	13.042	91	741	52.51 ug/L #	49
43) m&p-Xylene SCAN	13.225	91	845	43.14 ug/L #	67
44) o-Xylene SCAN	13.845	91	1050	94.19 ug/L #	62
45) 1,1,2,2-Tetrachloroeth...	14.954	83	360	68.13 ug/L	91
46) 1,3,5-Trimethylbenzene...	15.427	105	1022	92.46 ug/L #	65
47) 1,2,4-Trimethylbenzene...	15.948	105	277	24.45 ug/L #	29
48) Naphthalene SCAN	17.742	128	544	33.66 ug/L	67

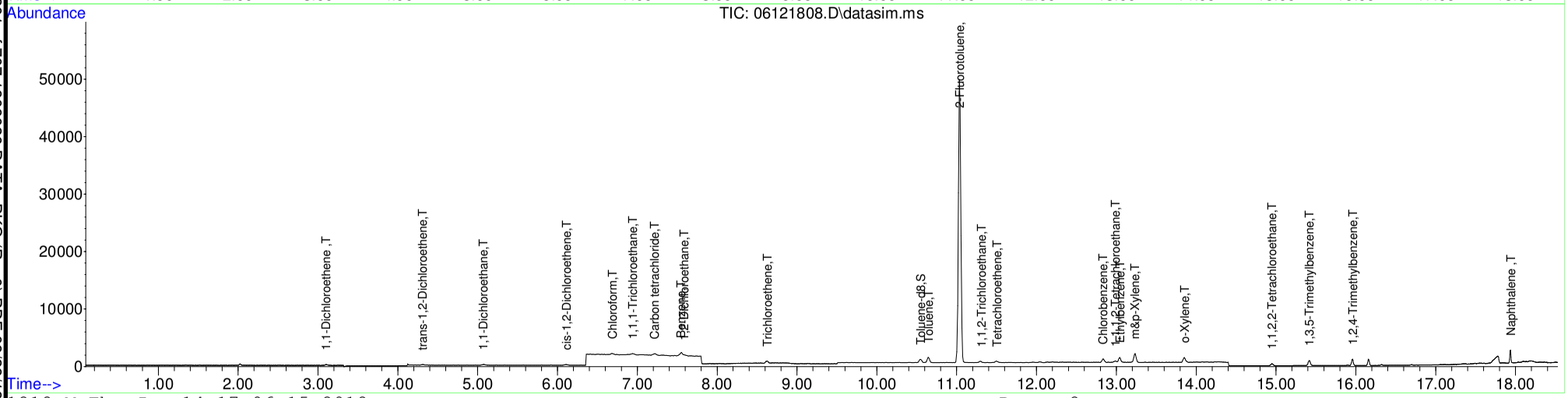
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121808.D
Acq On : 12 Jun 2018 15:42
InstName : AG5975C
Operator : RH
Sample : S18F027-CAL6
Misc : 1823103 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 14 17:06:14 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 12 16:36:55 2018
Response via : Initial Calibration





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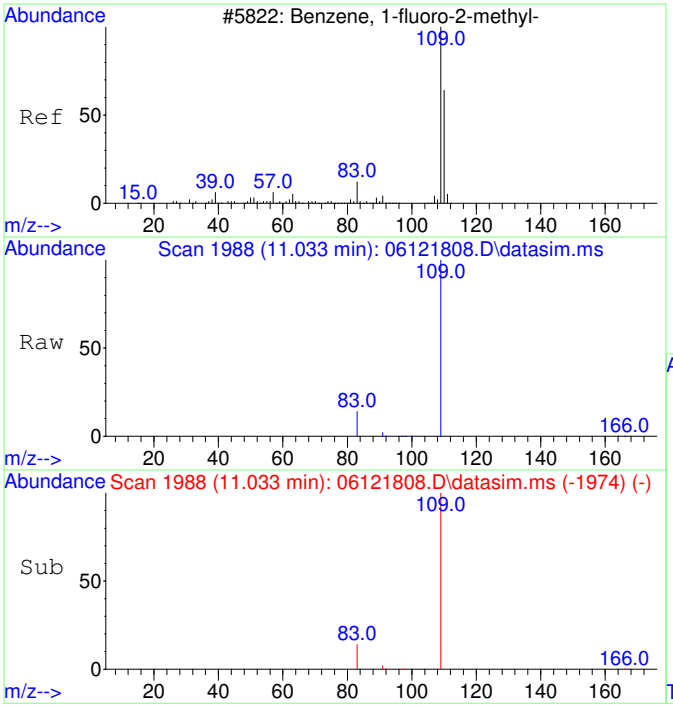
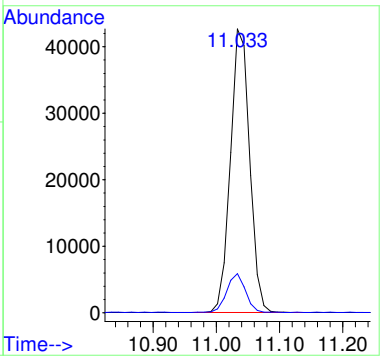
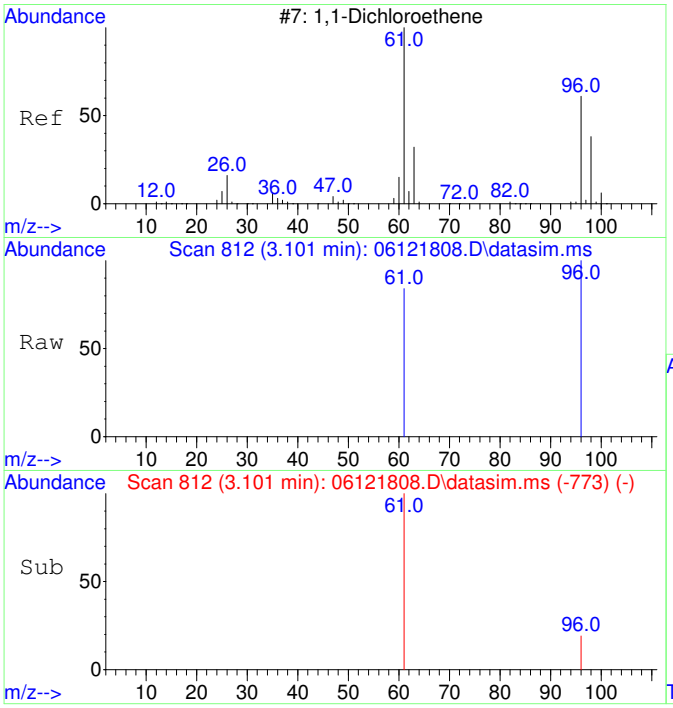


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:109 Resp: 90218

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	44.7

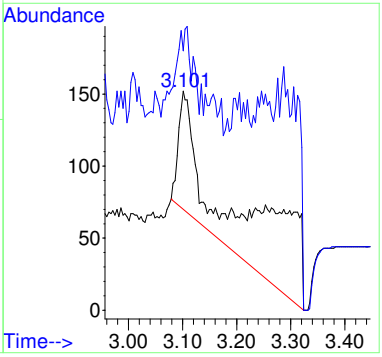




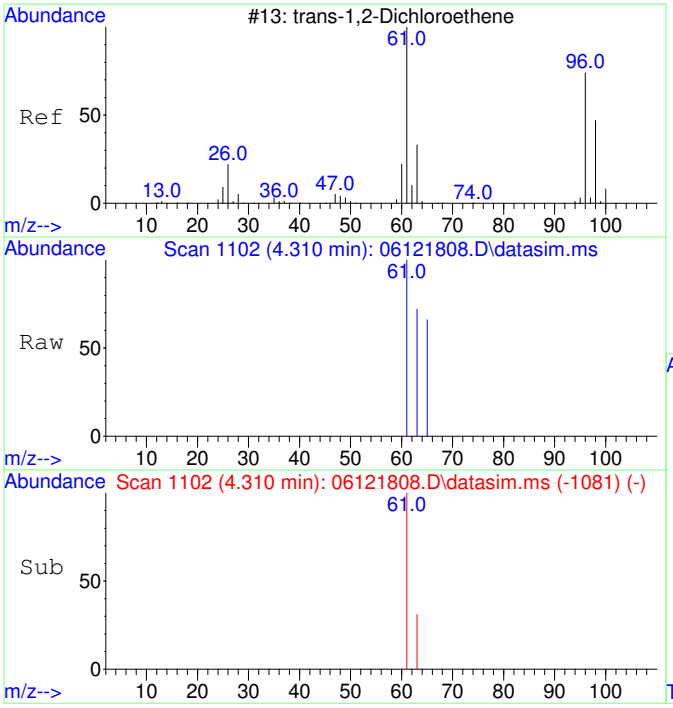
#2
1,1-Dichloroethene
Concen: 147.16 ug/L
RT: 3.101 min Scan# 812
Delta R.T. -0.003 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 568

Ion	Ratio	Lower	Upper
61	100		
96	19.9	28.7	88.7#



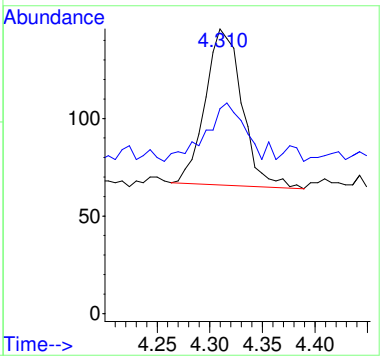
Before MI:
IMPROPER
BASELINE

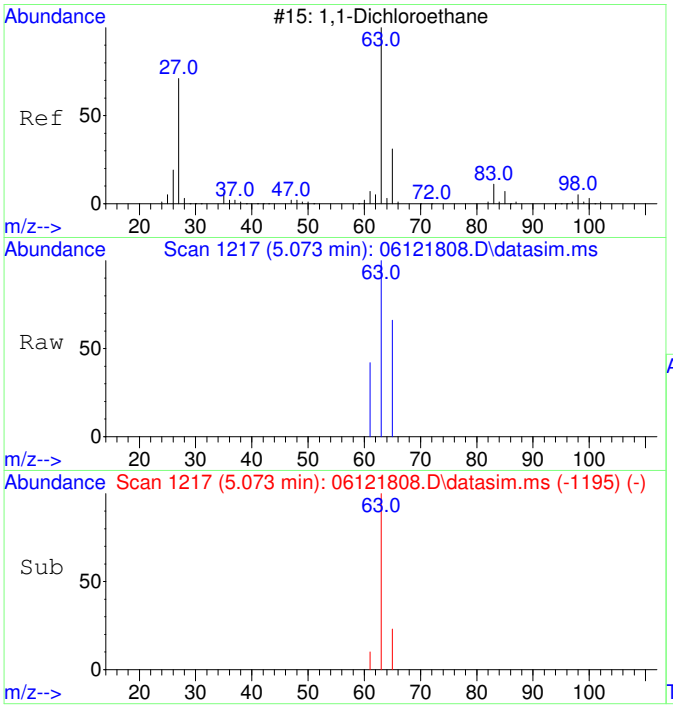


#3
trans-1,2-Dichloroethene
Concen: 48.09 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 194

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.0	62.0

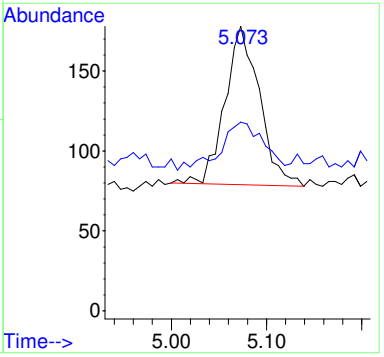


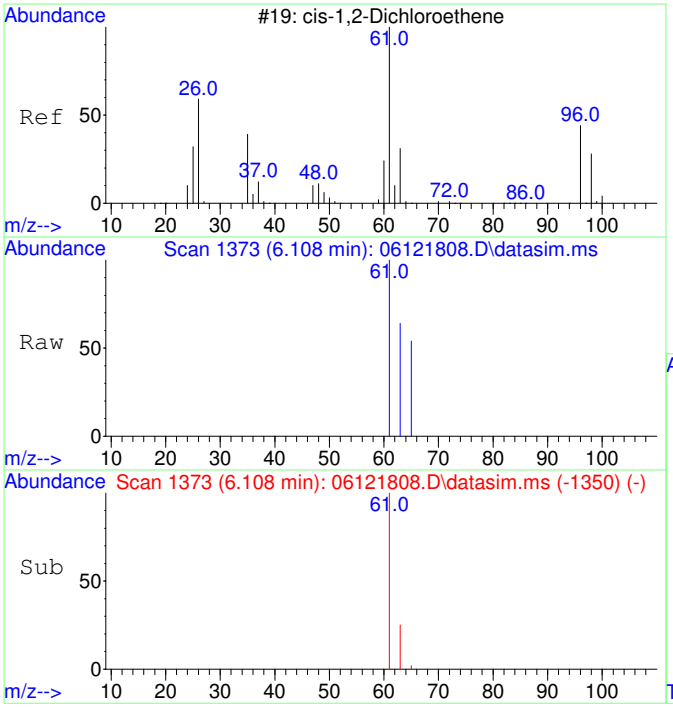


#4
1,1-Dichloroethane
Concen: 49.79 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 63 Resp: 250

Ion	Ratio	Lower	Upper
63	100		
65	37.6	1.5	61.5

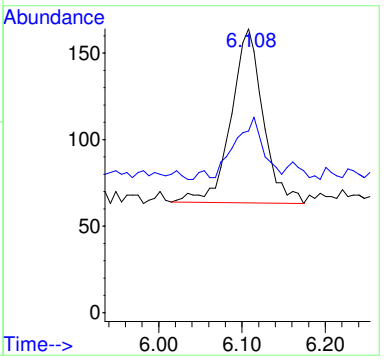


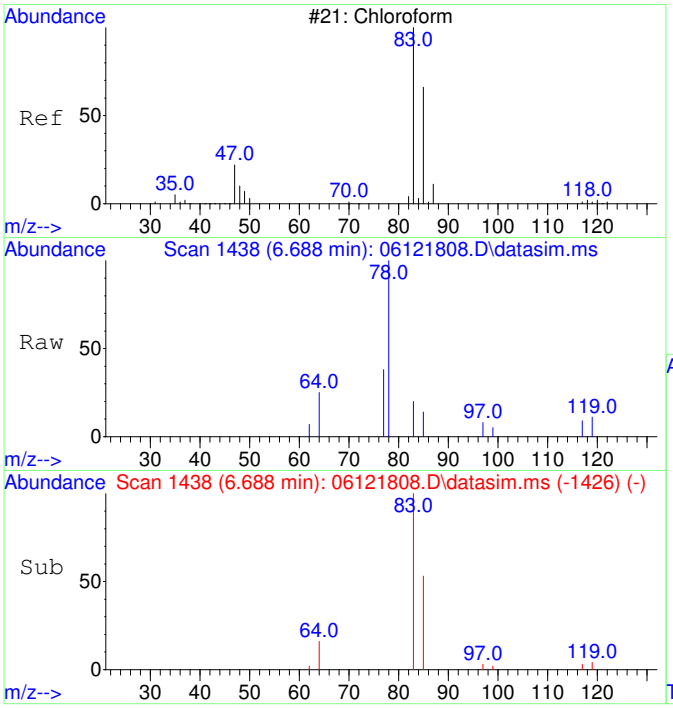


#5
cis-1,2-Dichloroethene
Concen: 53.90 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 267

Ion	Ratio	Lower	Upper
61	100		
63	30.0	2.2	62.2

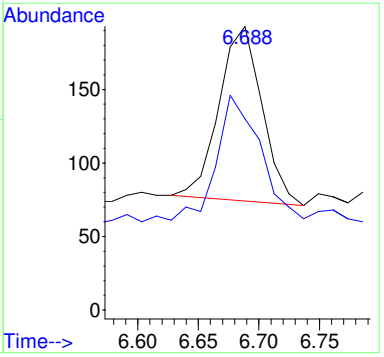


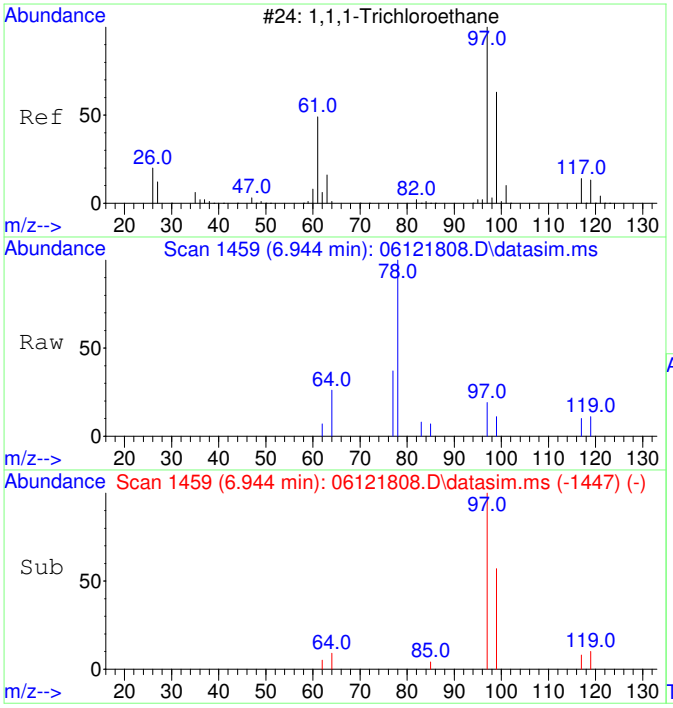


#6
Chloroform
Concen: 54.75 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 292

Ion	Ratio	Lower	Upper
83	100		
85	75.3	34.8	94.8

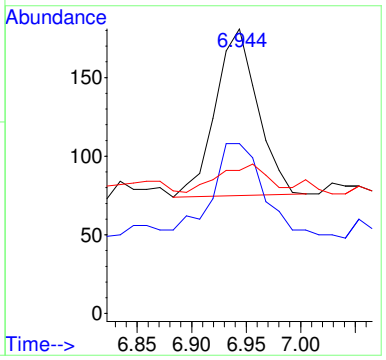


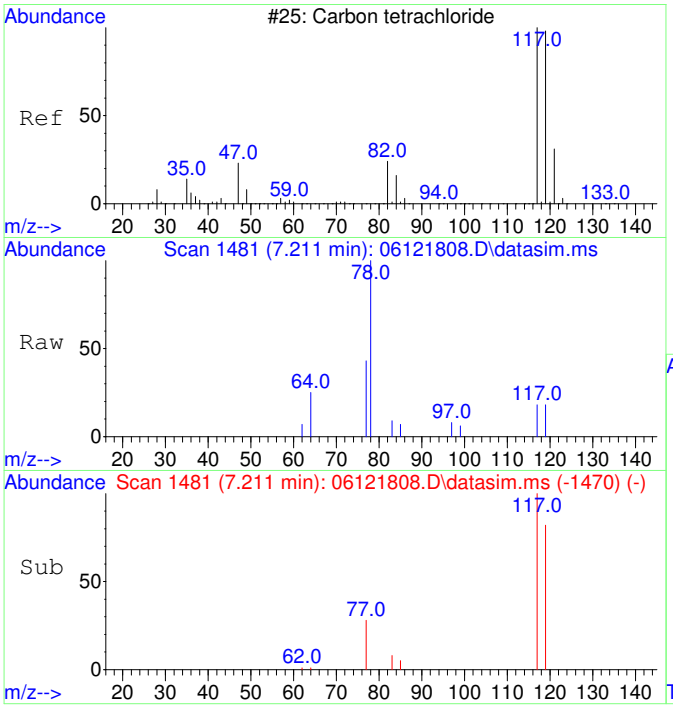


#7
1,1,1-Trichloroethane
Concen: 54.48 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 286

Ion	Ratio	Lower	Upper
97	100		
99	0.0	34.6	94.6#
117	20.3	0.0	42.9

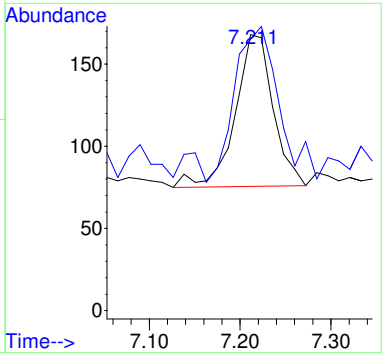


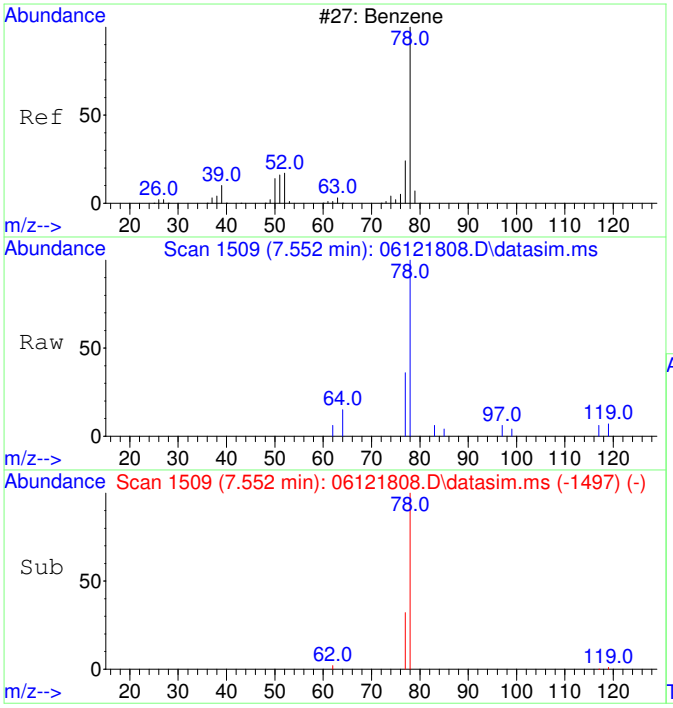


#8
Carbon tetrachloride
Concen: 53.89 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:117 Resp: 268

Ion	Ratio	Lower	Upper
117	100		
119	119.8	65.9	125.9

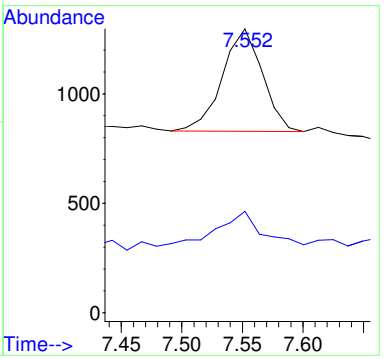


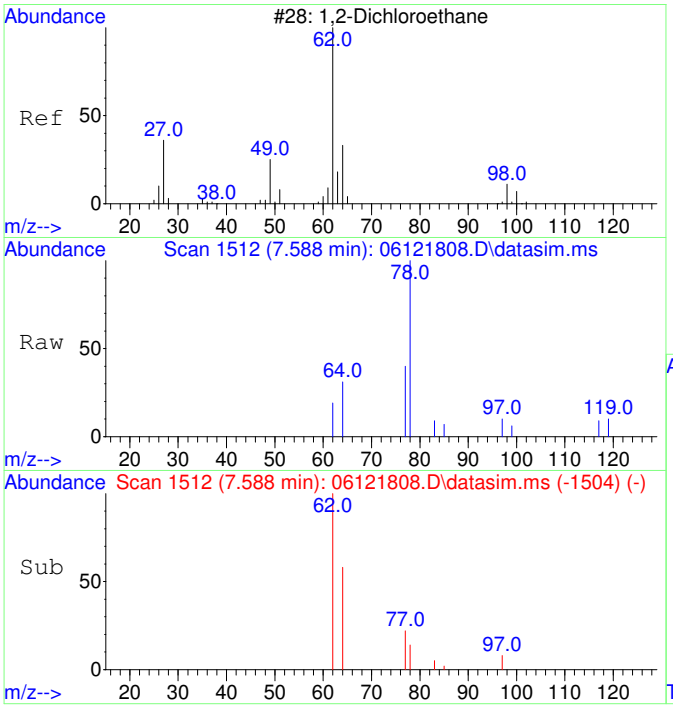


#9
Benzene
Concen: 74.63 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 78 Resp: 1081

Ion	Ratio	Lower	Upper
78	100		
77	53.6	0.0	53.0#

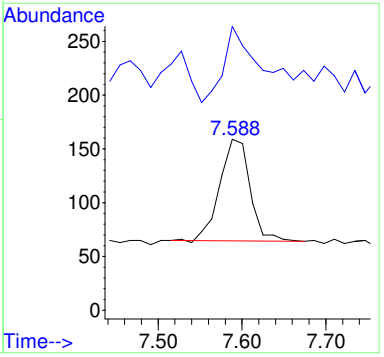


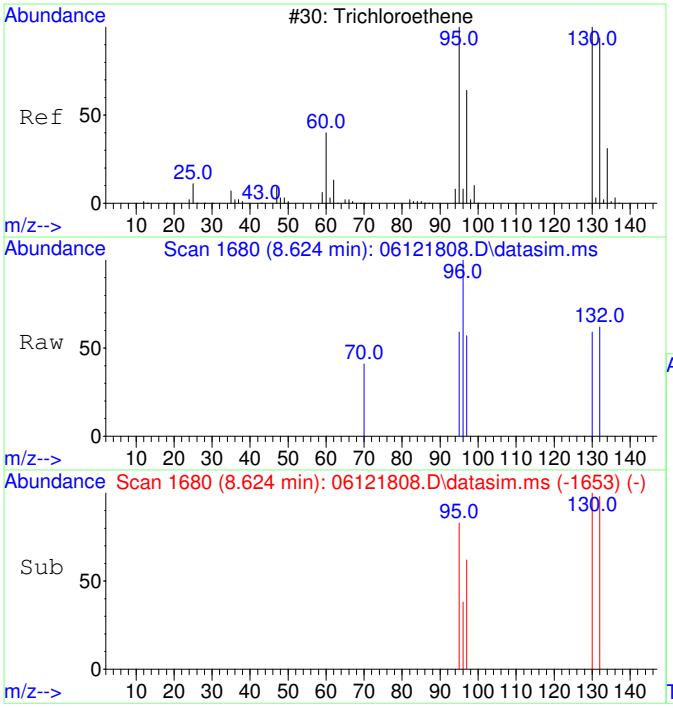


#10
1,2-Dichloroethane
Concen: 50.34 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 62 Resp: 235

Ion	Ratio	Lower	Upper
62	100		
64	97.0	2.3	62.3#

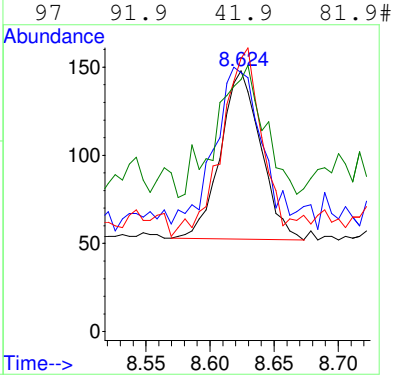


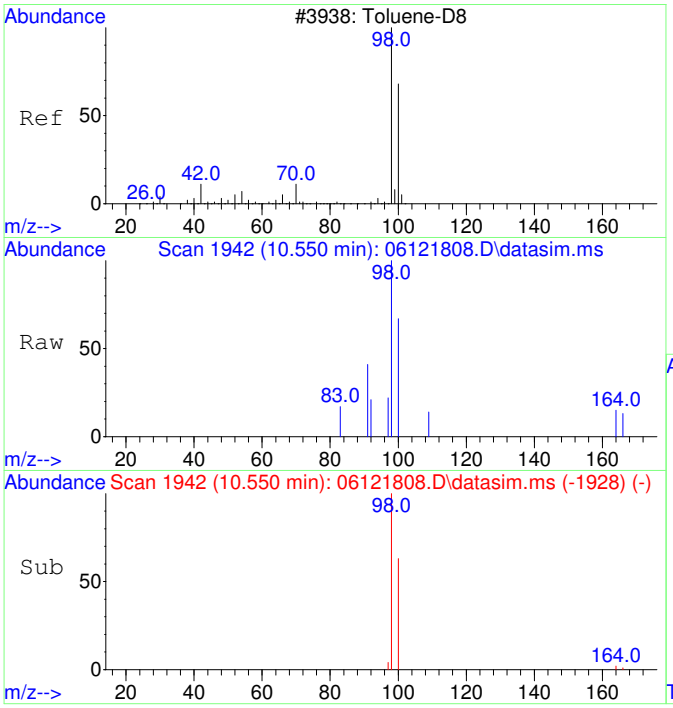


#11
Trichloroethene
Concen: 52.50 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:130 Resp: 209

Ion	Ratio	Lower	Upper
130	100		
95	109.1	66.0	126.0
132	113.4	78.8	118.8
97	91.9	41.9	81.9#

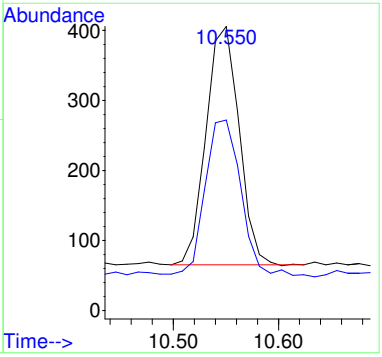


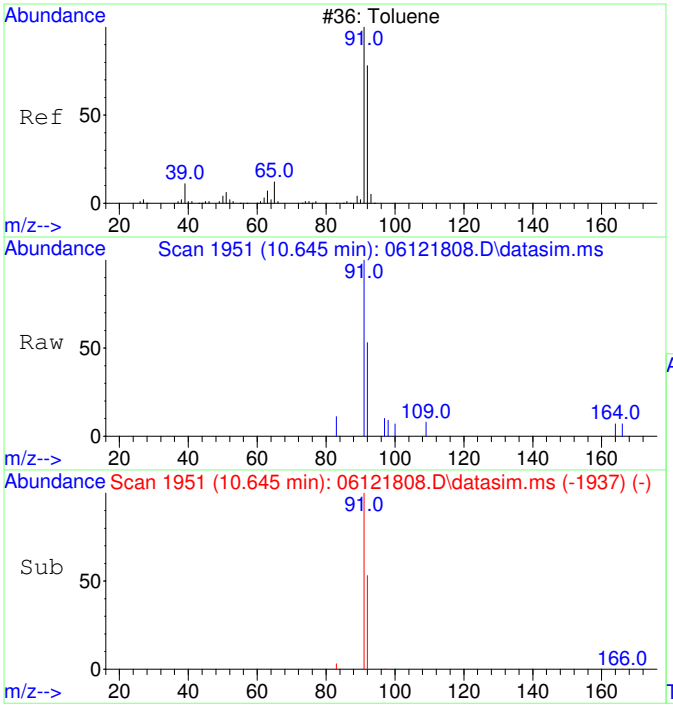


#12
Toluene-d8
Concen: 50.91 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 98 Resp: 746

Ion	Ratio	Lower	Upper
98	100		
100	71.7	38.7	98.7

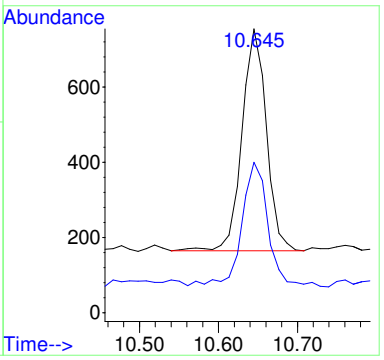


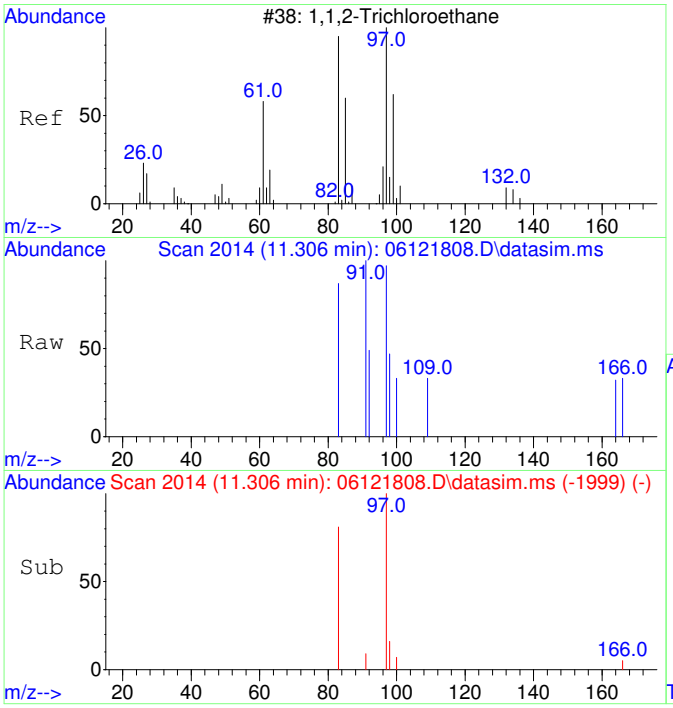


#13
Toluene
Concen: 64.13 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1260

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

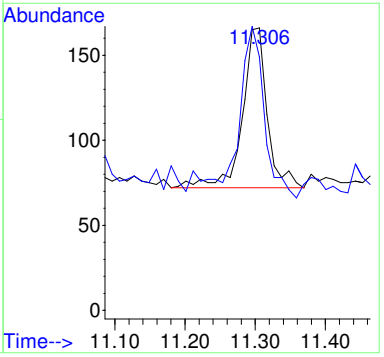


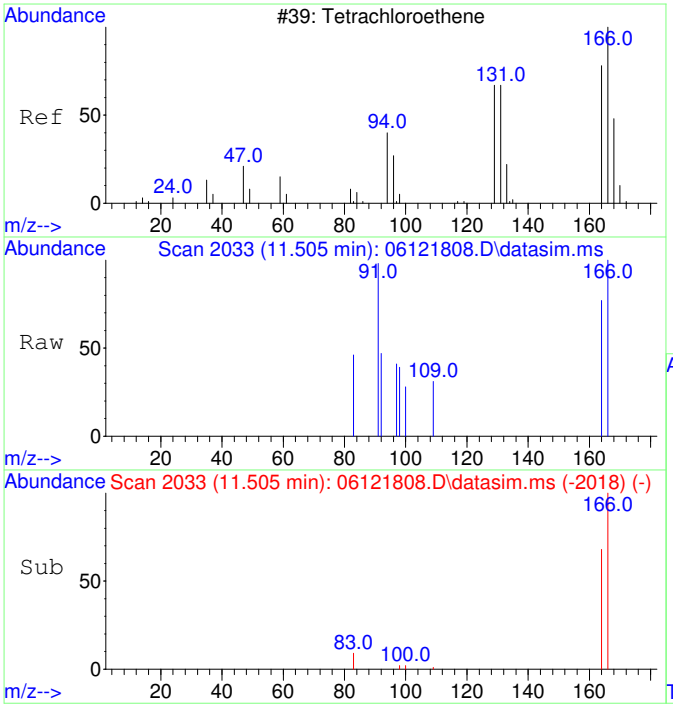


#14
1,1,2-Trichloroethane
Concen: 57.13 ug/L
RT: 11.306 min Scan# 2014
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 232

Ion	Ratio	Lower	Upper
97	100		
83	103.9	53.4	113.4

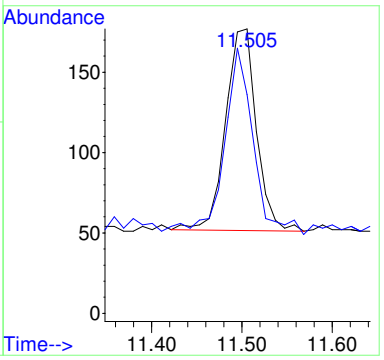


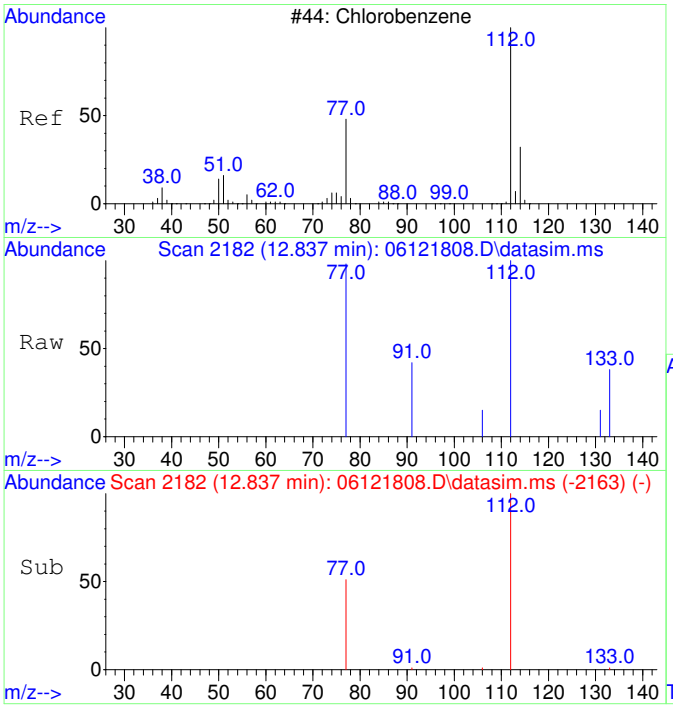


#15
Tetrachloroethene
Concen: 53.83 ug/L
RT: 11.505 min Scan# 2033
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:166 Resp: 298

Ion	Ratio	Lower	Upper
166	100		
164	88.3	47.8	107.8

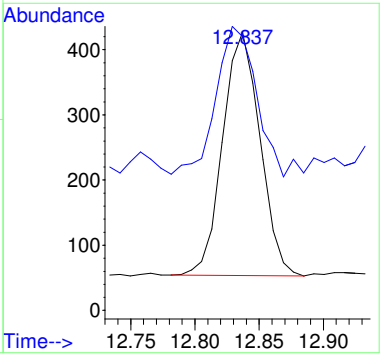


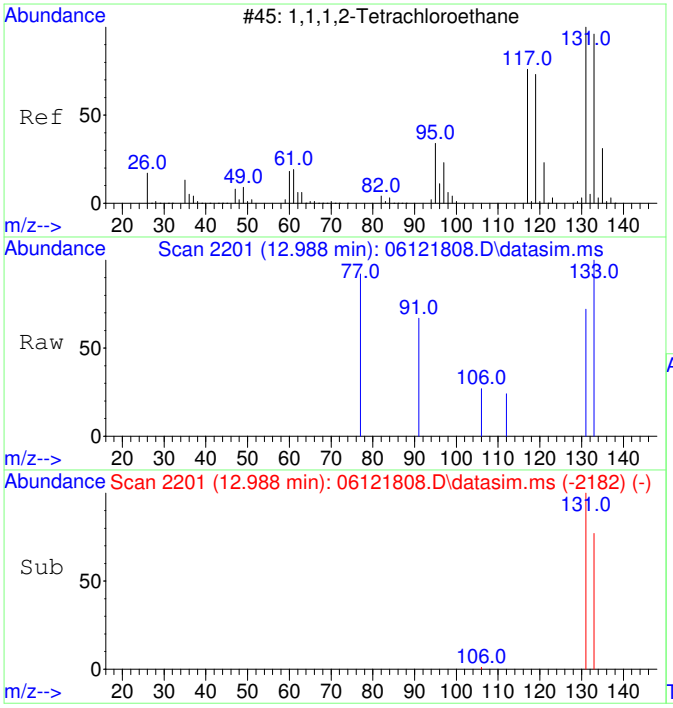


#16
Chlorobenzene
Concen: 53.55 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:112 Resp: 751

Ion	Ratio	Lower	Upper
112	100		
77	66.8	28.1	88.1

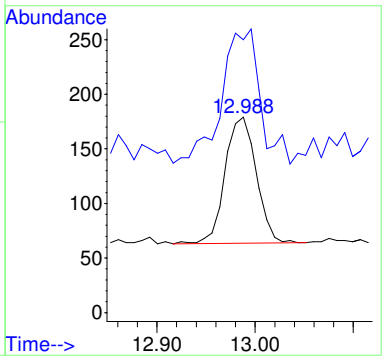


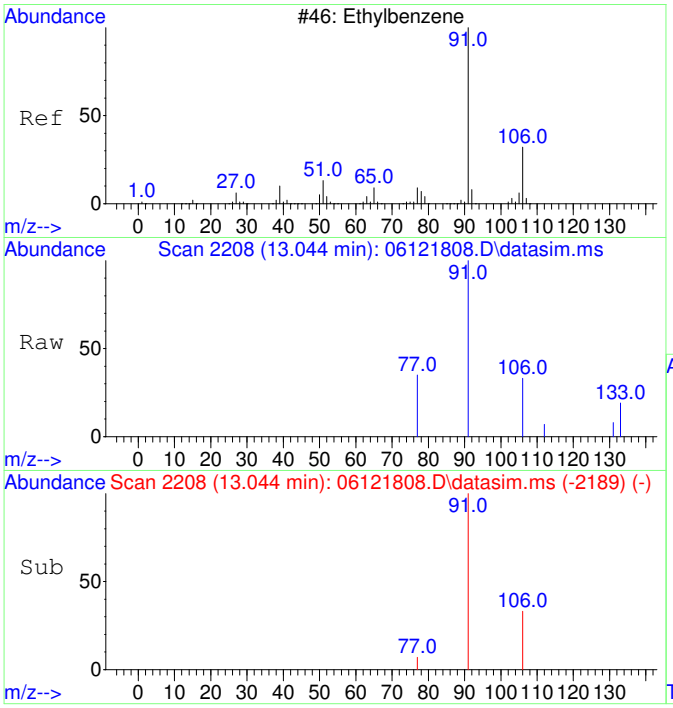


#17
1,1,1,2-Tetrachloroethane
Concen: 53.37 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:131 Resp: 254

Ion	Ratio	Lower	Upper
131	100		
133	130.7	66.2	126.2#

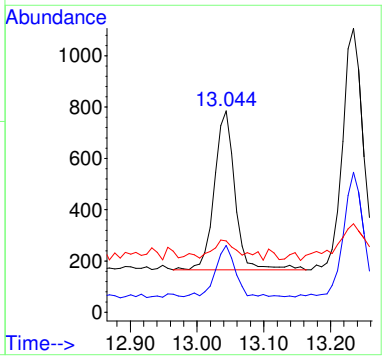


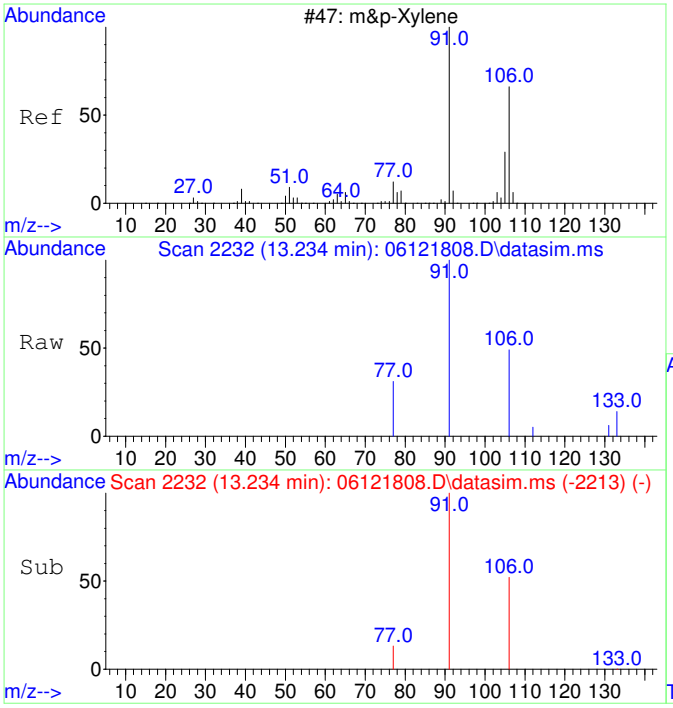


#18
Ethylbenzene
Concen: 55.98 ug/L
RT: 13.044 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1320

Ion	Ratio	Lower	Upper
91	100		
106	30.8	2.8	62.8
77	16.7	0.0	38.6

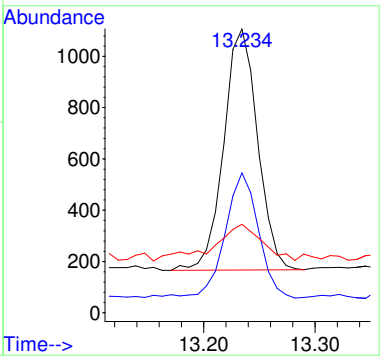


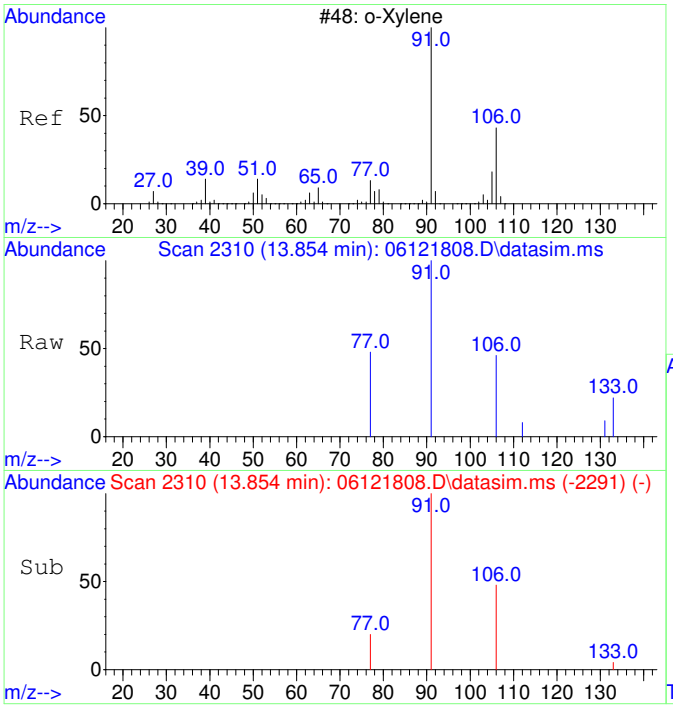


#19
m&p-Xylene
Concen: 109.24 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1988

Ion	Ratio	Lower	Upper
91	100		
106	50.8	21.2	81.2
77	21.7	0.0	42.9

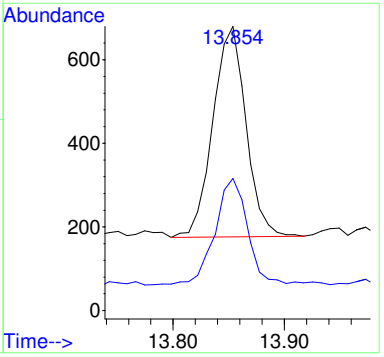


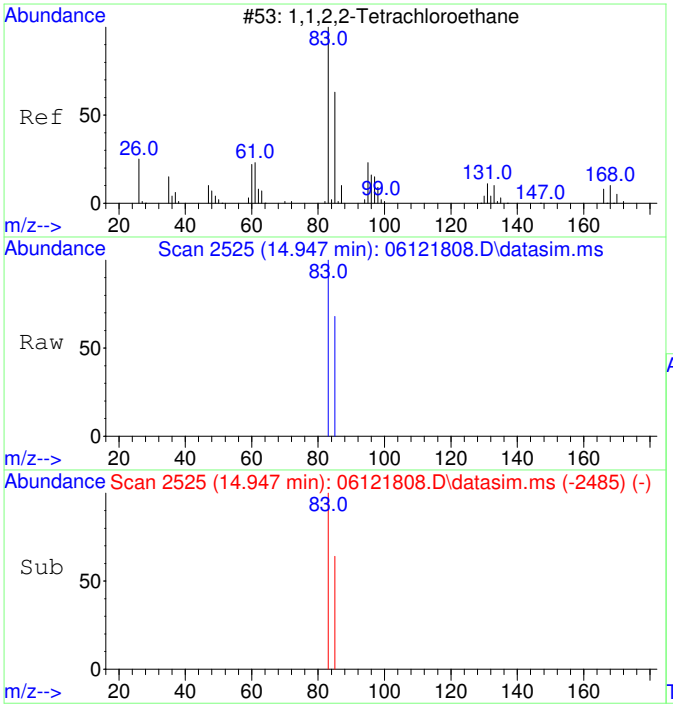


#20
o-Xylene
Concen: 53.86 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1038

Ion	Ratio	Lower	Upper
91	100		
106	50.4	18.3	78.3

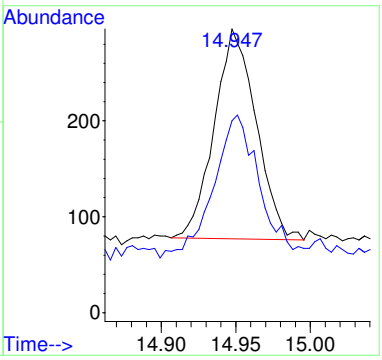


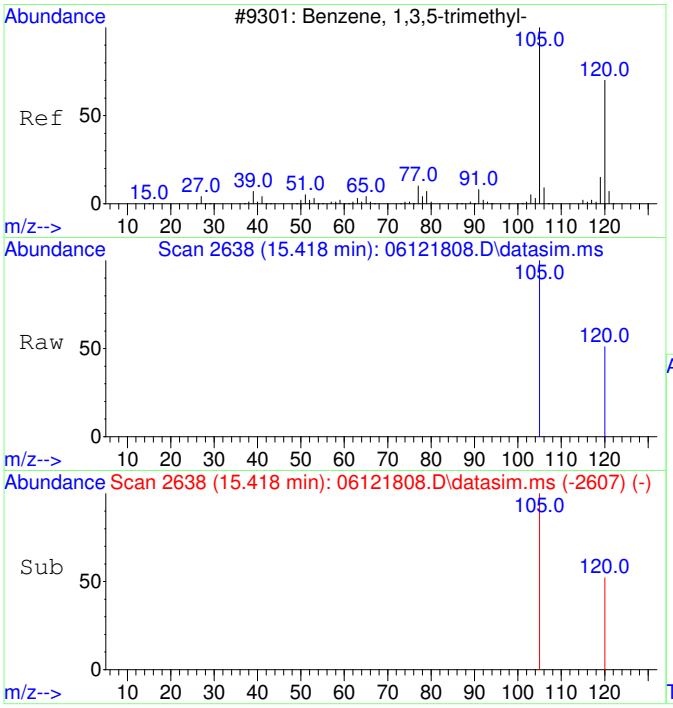


#21
1,1,2,2-Tetrachloroethane
Concen: 51.56 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.003 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 428

Ion	Ratio	Lower	Upper
83	100		
85	75.0	34.4	94.4

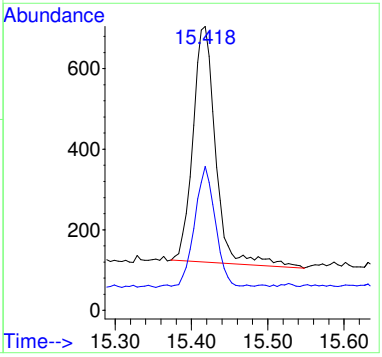


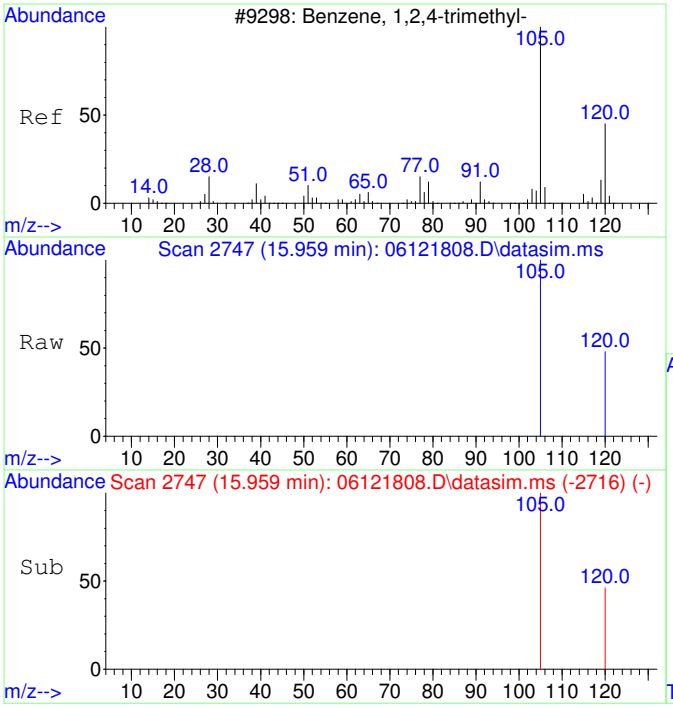


#22
1,3,5-Trimethylbenzene
Concen: 55.30 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1206

Ion	Ratio	Lower	Upper
105	100		
120	45.8	19.1	79.1

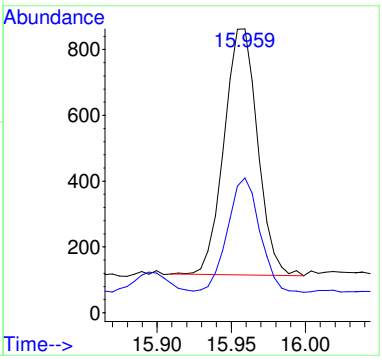


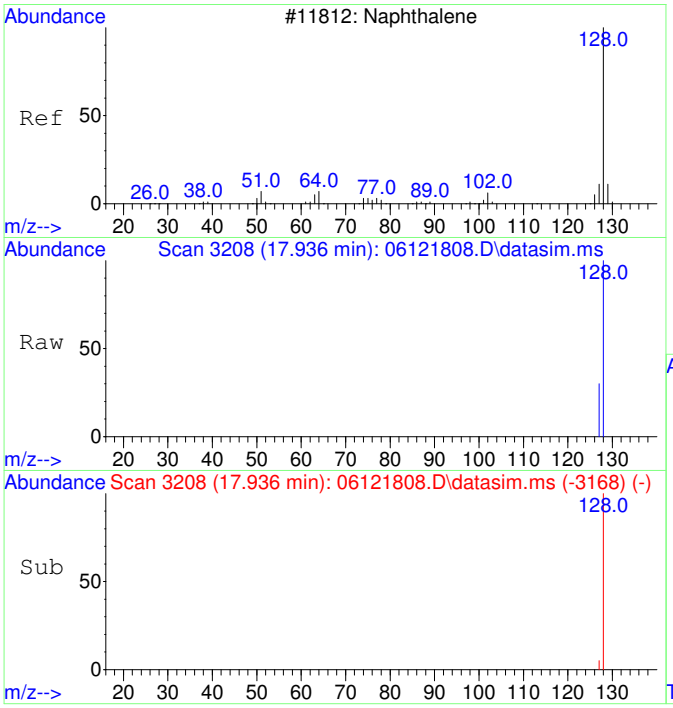


#23
1,2,4-Trimethylbenzene
Concen: 53.87 ug/L
RT: 15.959 min Scan# 2747
Delta R.T. 0.004 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1175

Ion	Ratio	Lower	Upper
105	100		
120	44.3	15.5	75.5

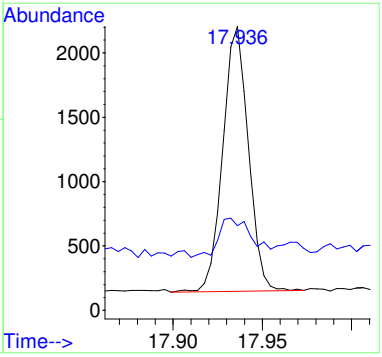


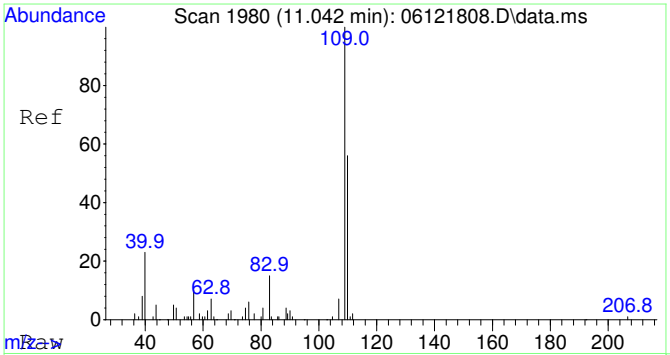


#24
Naphthalene
Concen: 57.15 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:128 Resp: 2046

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	42.5

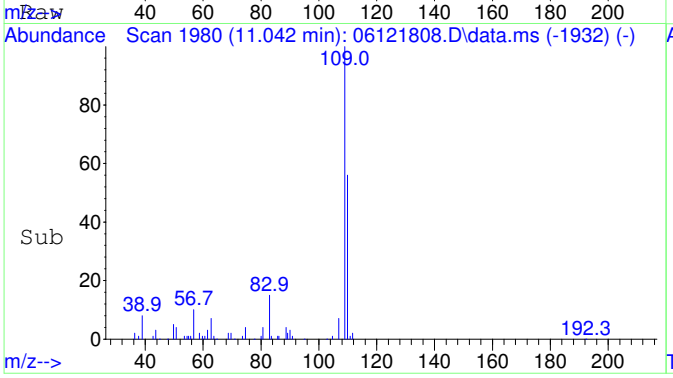


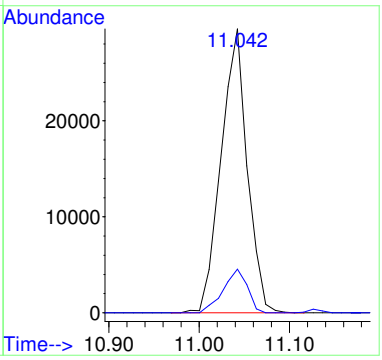


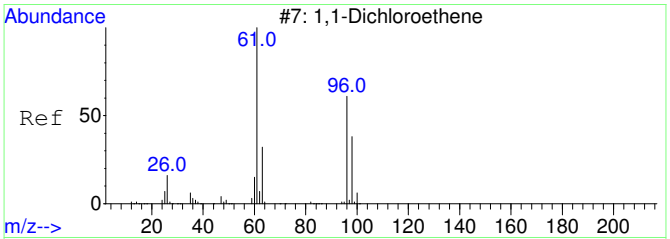
#25
2-Fluorotoluene SCAN
Concen: 5683.26 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:109 Resp: 59747

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	45.7



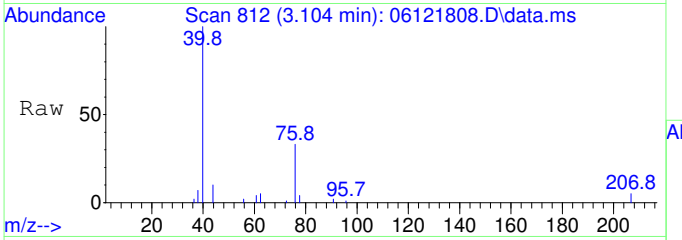


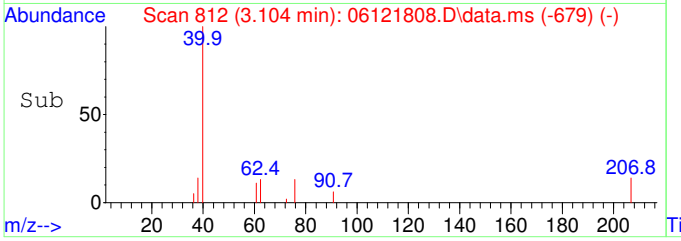


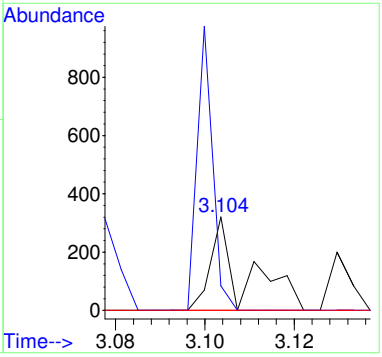
#26
1,1-Dichloroethene SCAN
Concen: 65.95 ug/L
RT: 3.104 min Scan# 812
Delta R.T. -0.007 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

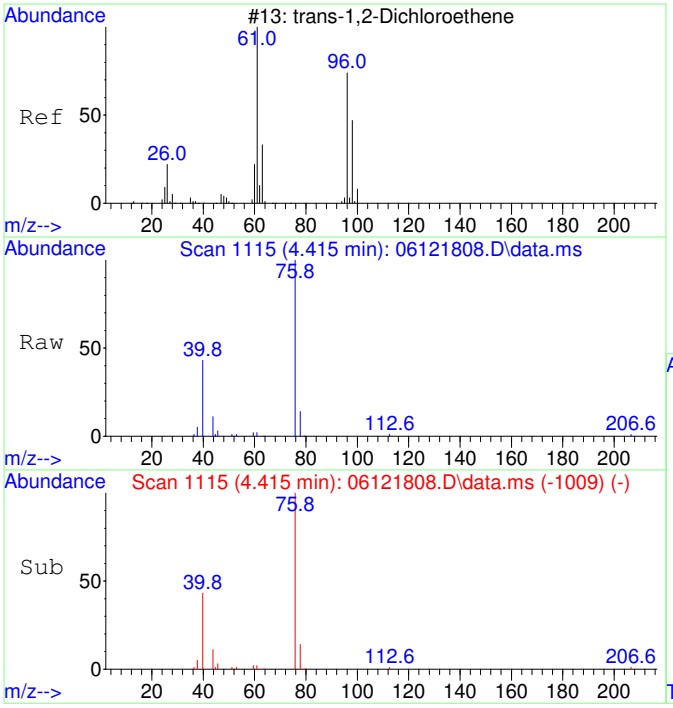
Tgt Ion: 61 Resp: 173

Ion	Ratio	Lower	Upper
61	100		
96	136.4	23.8	83.8#
98	0.0	8.8	68.8#





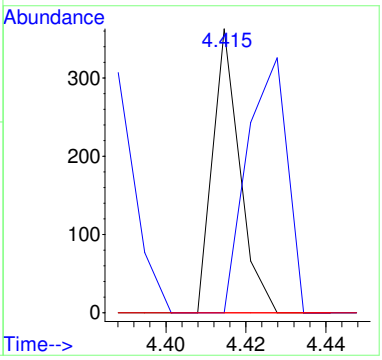


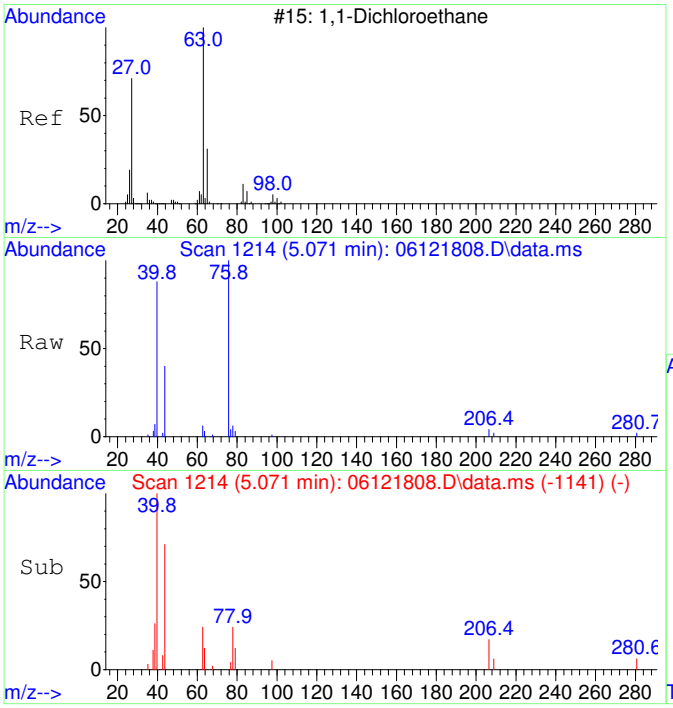


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.99 ug/L
RT: 4.415 min Scan# 1115
Delta R.T. 0.080 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 171

Ion	Ratio	Lower	Upper
61	100		
96	132.2	37.9	97.9#
98	0.0	12.7	72.7#

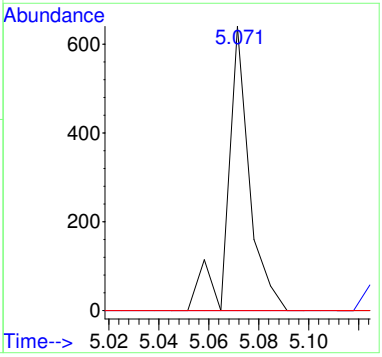


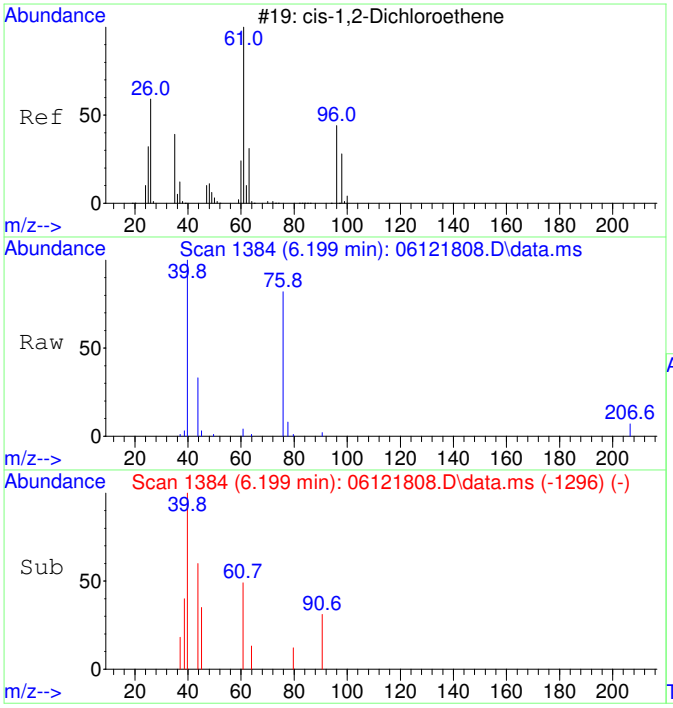


#28
1,1-Dichloroethane SCAN
Concen: 99.35 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. -0.013 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 63 Resp: 386

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

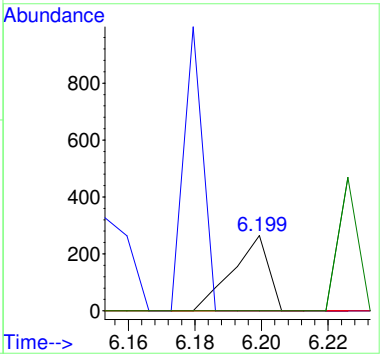


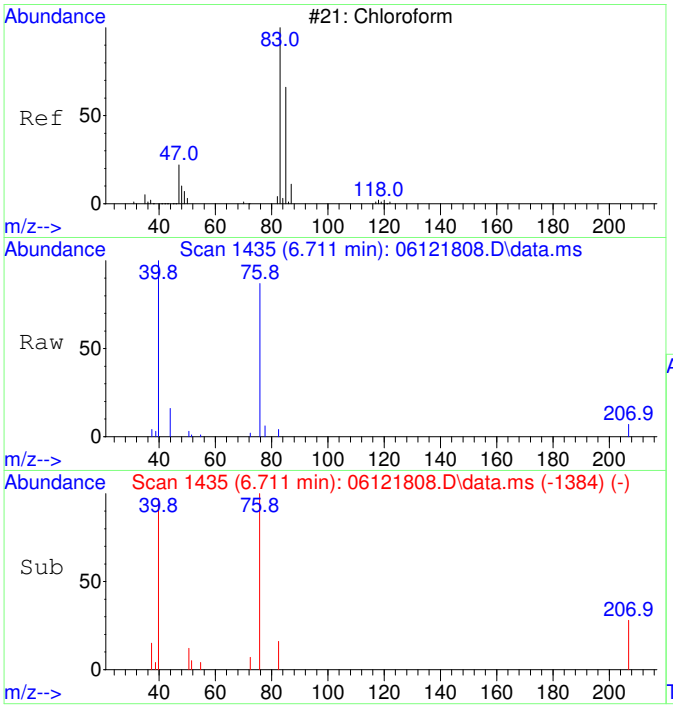


#29
cis-1,2-Dichloroethene SCAN
Concen: 59.52 ug/L
RT: 6.199 min Scan# 1384
Delta R.T. 0.086 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 200

Ion	Ratio	Lower	Upper
61	100		
96	198.5	28.2	88.2#
98	0.0	14.1	74.1#
63	0.0	1.5	61.5#

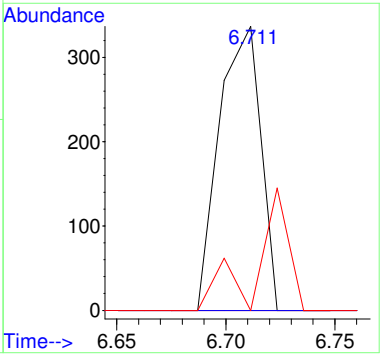


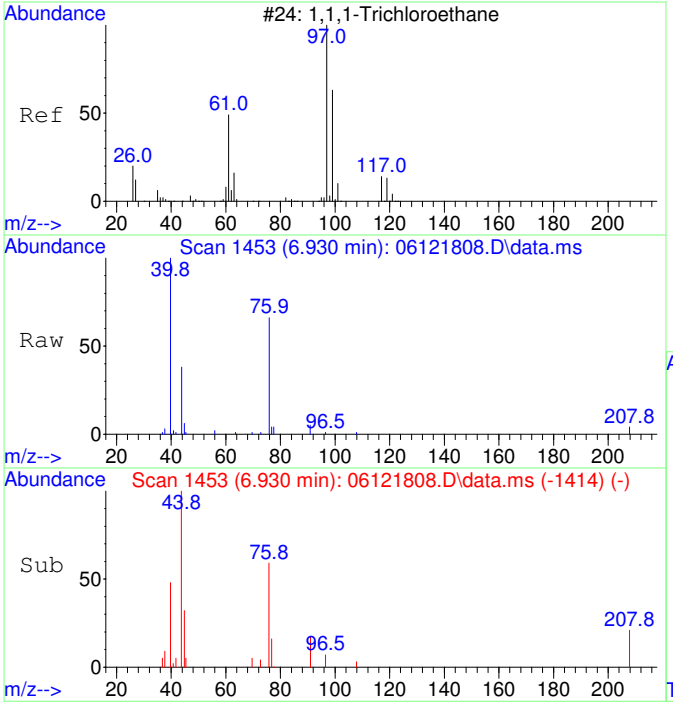


#30
Chloroform SCAN
Concen: 107.89 ug/L
RT: 6.711 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 445

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	33.9	0.0	57.9

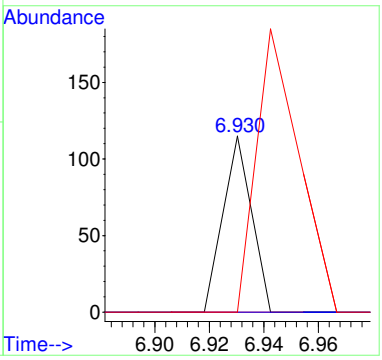


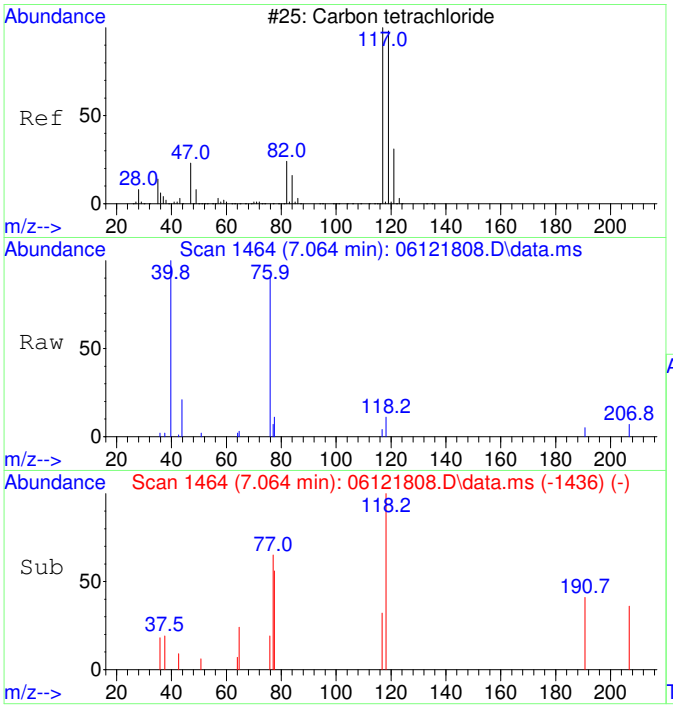


#31
1,1,1-Trichloroethane SCAN
Concen: 22.88 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. -0.024 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 84

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	239.3	15.1	75.1#

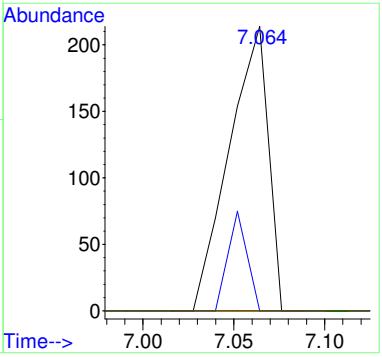


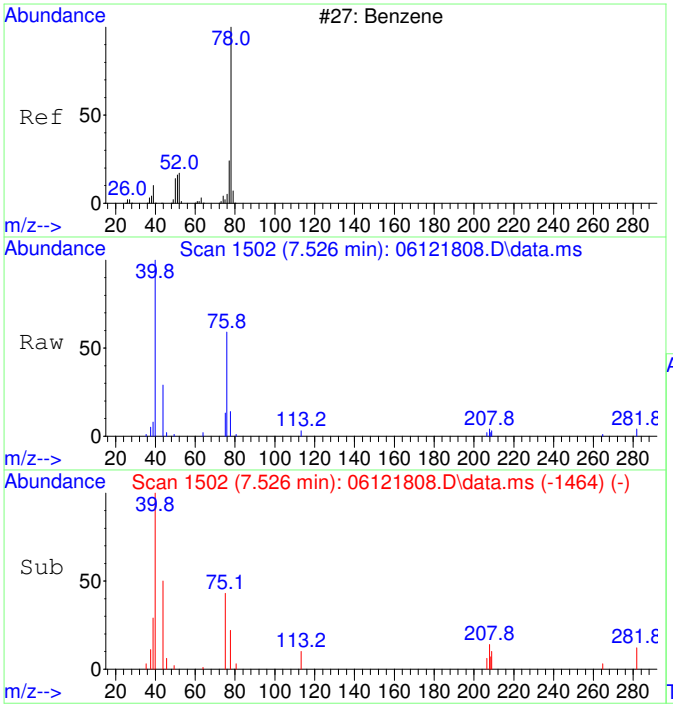


#32
Carbon tetrachloride SCAN
Concen: 88.46 ug/L
RT: 7.064 min Scan# 1464
Delta R.T. -0.158 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:117 Resp: 320

Ion	Ratio	Lower	Upper
117	100		
119	17.2	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

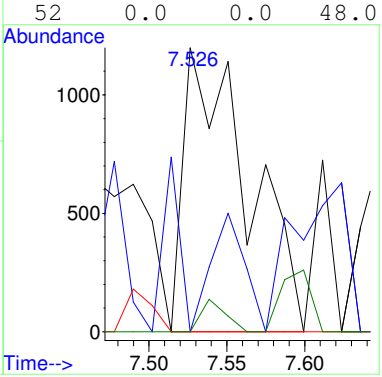


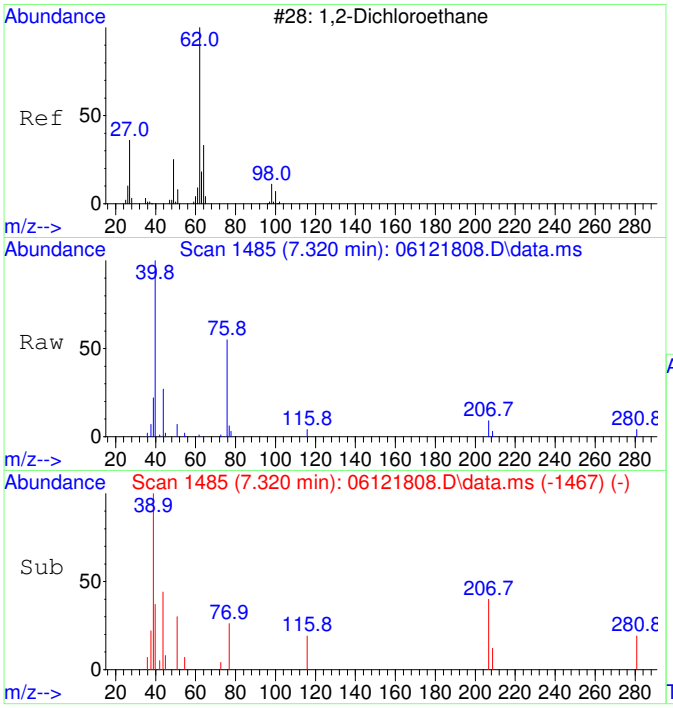


#33
Benzene SCAN
Concen: 314.93 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. -0.036 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 78 Resp: 3448

Ion	Ratio	Lower	Upper
78	100		
77	15.6	3.0	63.0
51	0.0	0.0	56.4
52	0.0	0.0	48.0

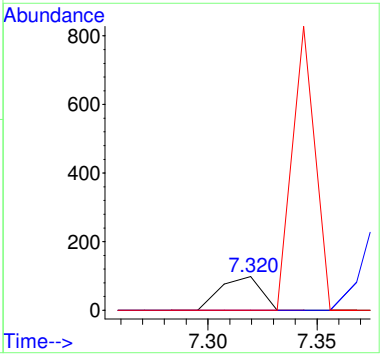


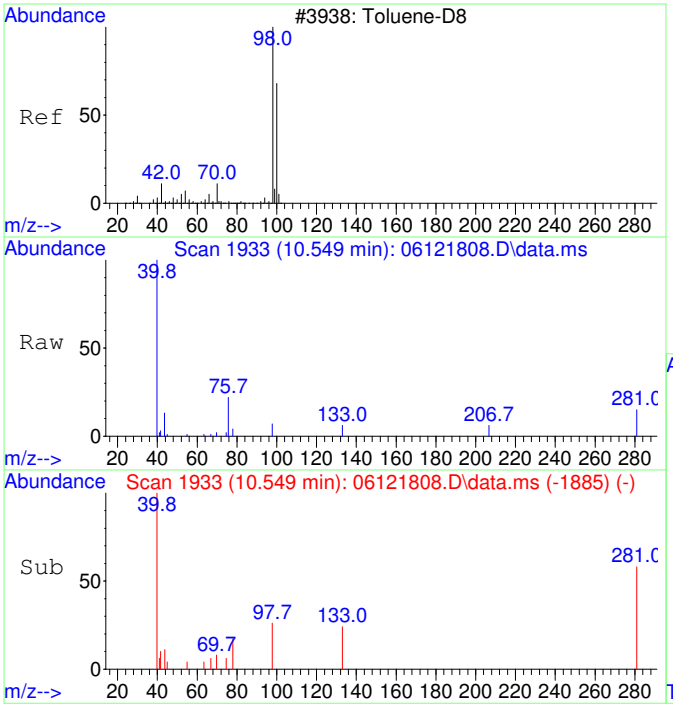


#34
1,2-Dichloroethane SCAN
Concen: 34.01 ug/L
RT: 7.320 min Scan# 1485
Delta R.T. -0.280 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 62 Resp: 127

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	0.0	10.4	70.4#

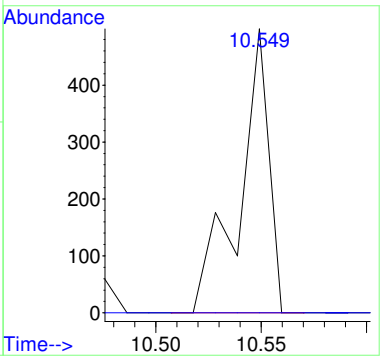


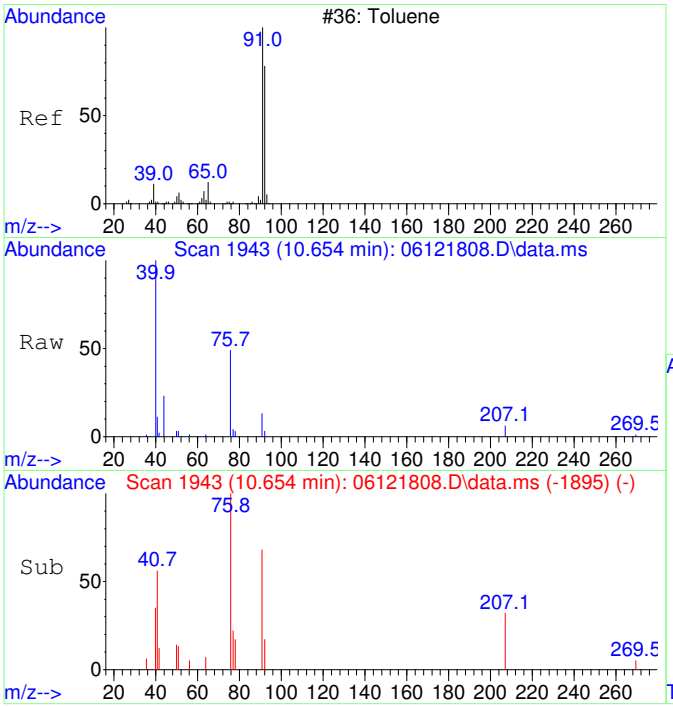


#36
Toluene-d8 SCAN
Concen: 51.35 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 98 Resp: 488

Ion	Ratio	Lower	Upper
98	100		
100	0.0	39.5	99.5#

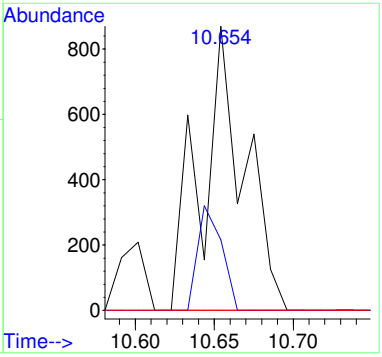


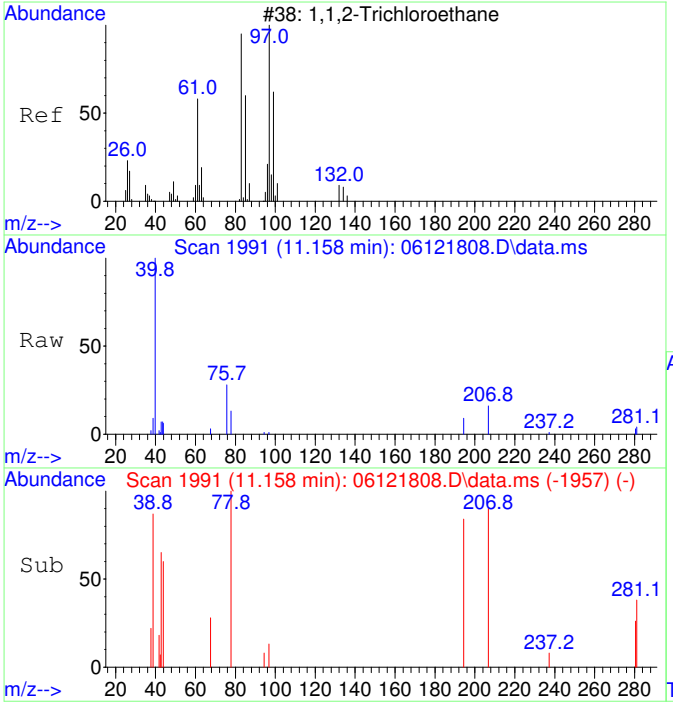


#37
Toluene SCAN
Concen: 135.67 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1647

Ion	Ratio	Lower	Upper
91	100		
92	20.5	26.6	86.6#
65	0.0	0.0	42.3

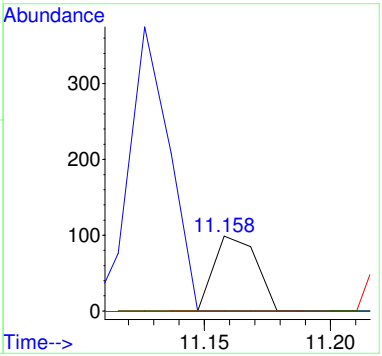


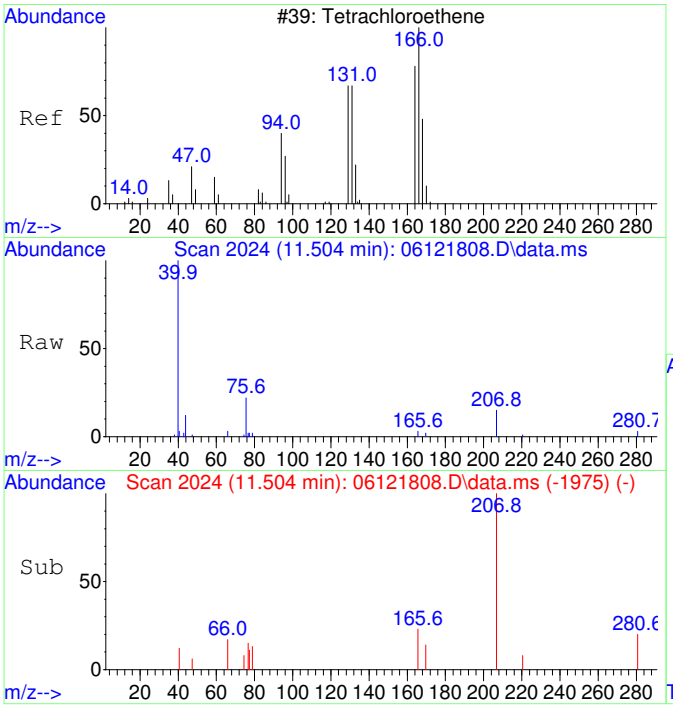


#38
1,1,2-Trichloroethane SCAN
Concen: 49.87 ug/L
RT: 11.158 min Scan# 1991
Delta R.T. -0.147 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 116

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

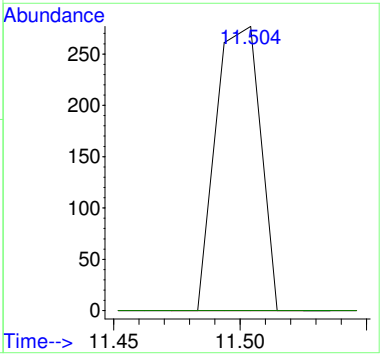


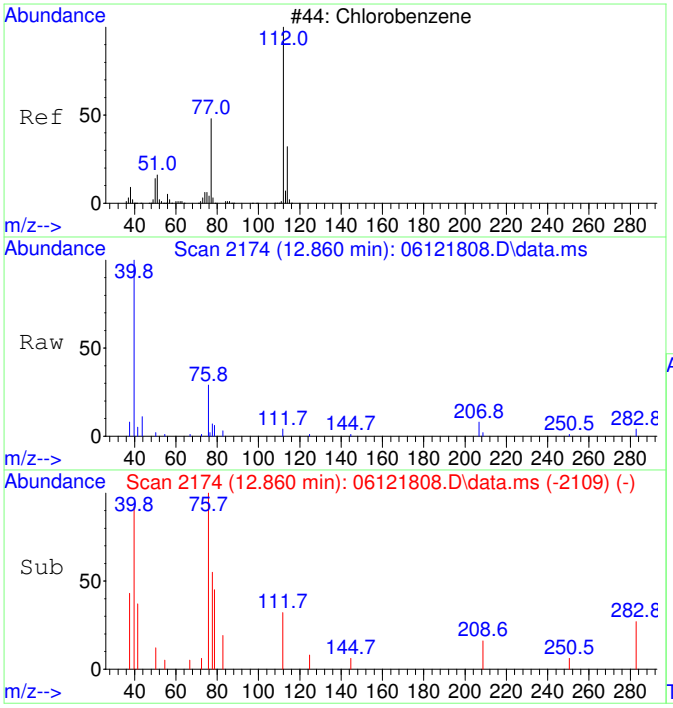


#39
Tetrachloroethene SCAN
Concen: 127.26 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:166 Resp: 339

Ion	Ratio	Lower	Upper
166	100		
164	0.0	43.3	103.3#
131	0.0	35.6	95.6#
129	0.0	36.6	96.6#

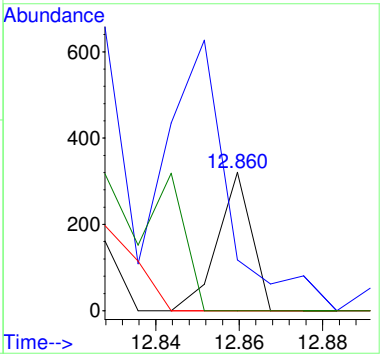


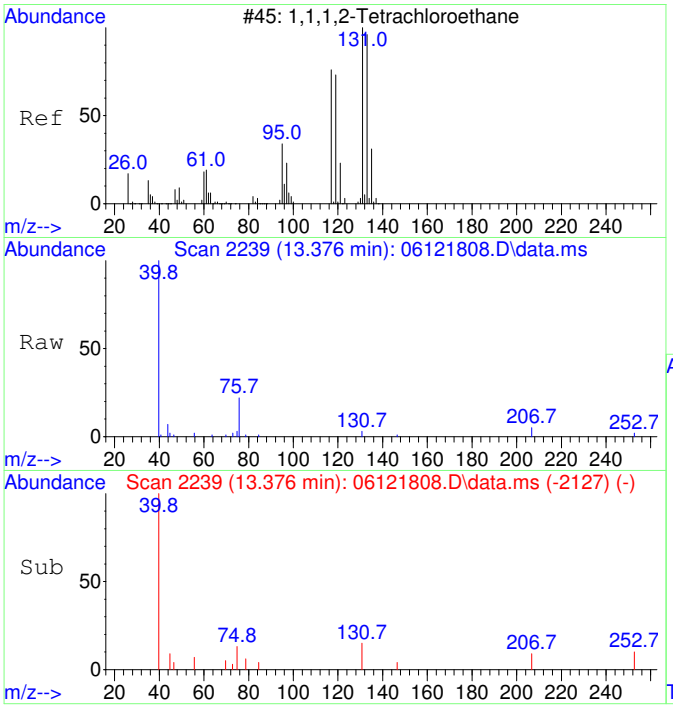


#40
Chlorobenzene SCAN
Concen: 24.71 ug/L
RT: 12.860 min Scan# 2174
Delta R.T. 0.016 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:112 Resp: 182

Ion	Ratio	Lower	Upper
112	100		
77	261.0	28.4	88.4#
114	0.0	0.0	59.5
51	206.6	0.0	53.7#

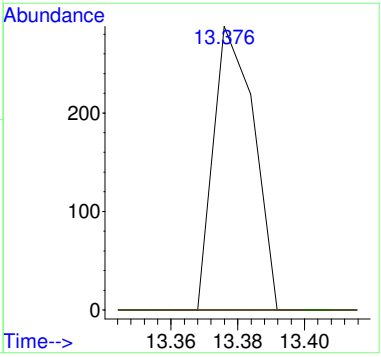


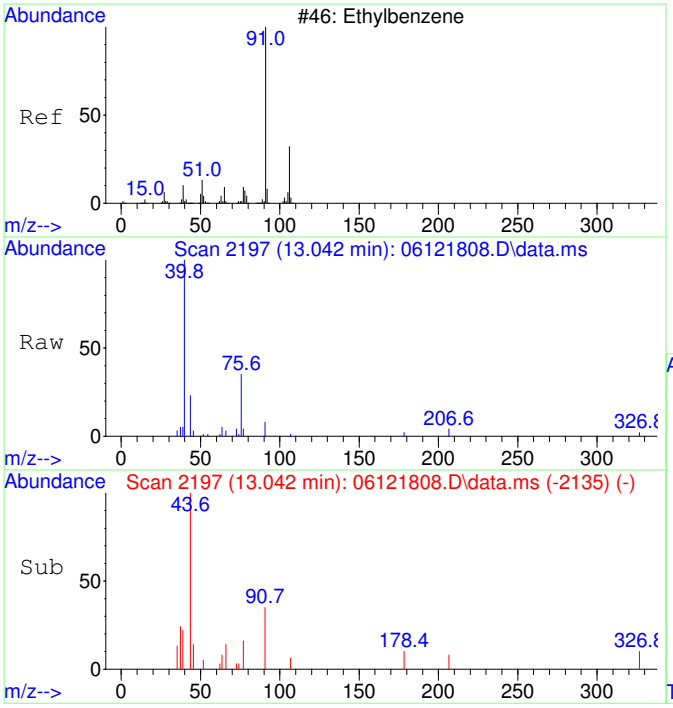


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 92.06 ug/L
RT: 13.376 min Scan# 2239
Delta R.T. 0.389 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:131 Resp: 242

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

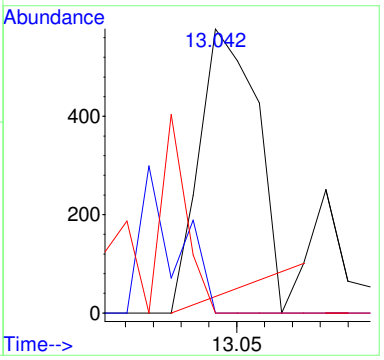


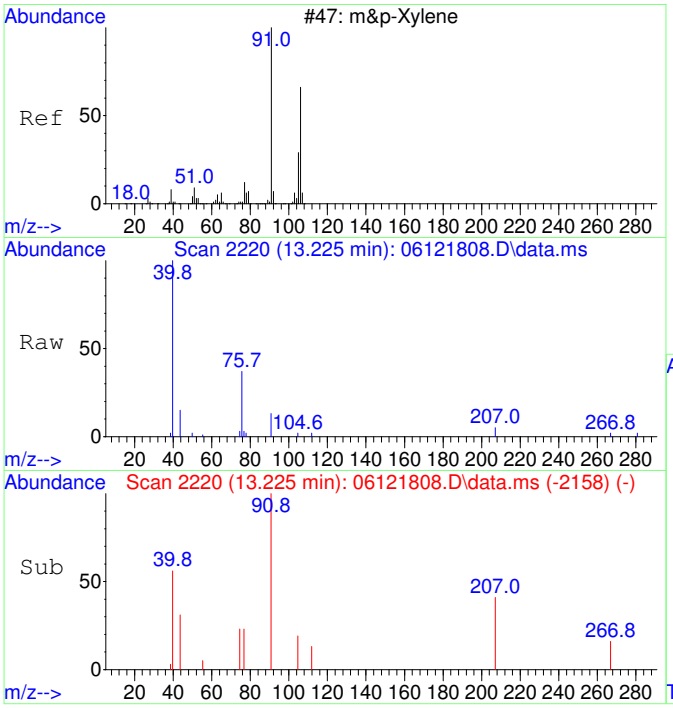


#42
Ethylbenzene SCAN
Concen: 52.51 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 741

Ion	Ratio	Lower	Upper
91	100		
106	0.0	3.2	63.2#
51	0.0	0.0	40.1

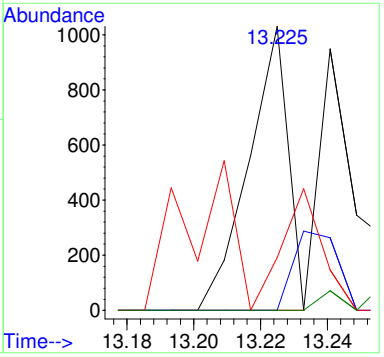


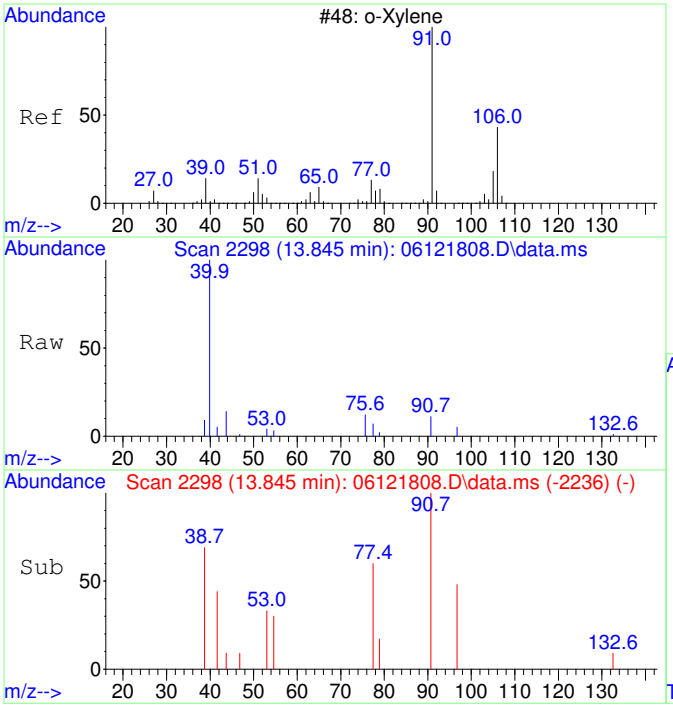


#43
m&p-Xylene SCAN
Concen: 43.14 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 845

Ion	Ratio	Lower	Upper
91	100		
106	31.1	20.1	80.1
105	44.0	0.0	51.1
51	0.0	0.0	40.7

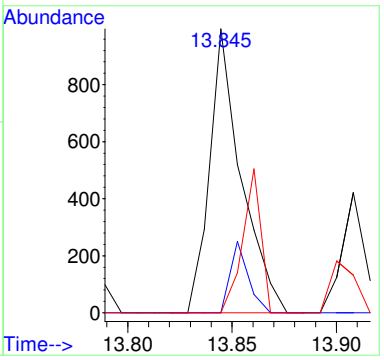


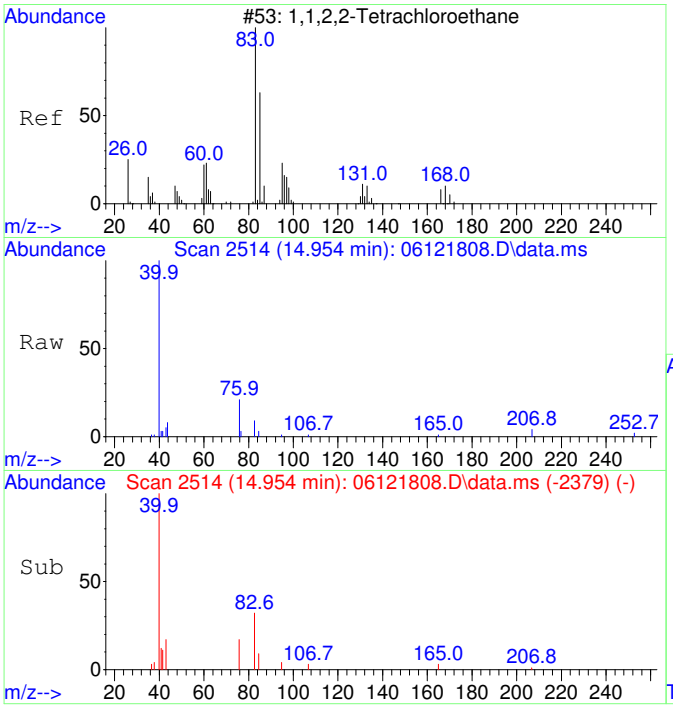


#44
o-Xylene SCAN
Concen: 94.19 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1050

Ion	Ratio	Lower	Upper
91	100		
106	14.3	21.3	81.3#
105	29.3	0.0	55.2

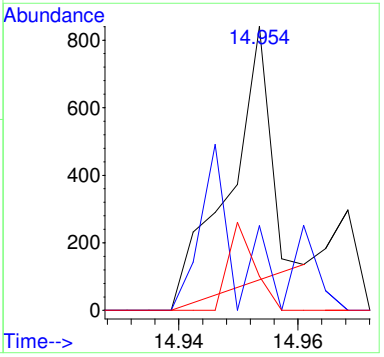


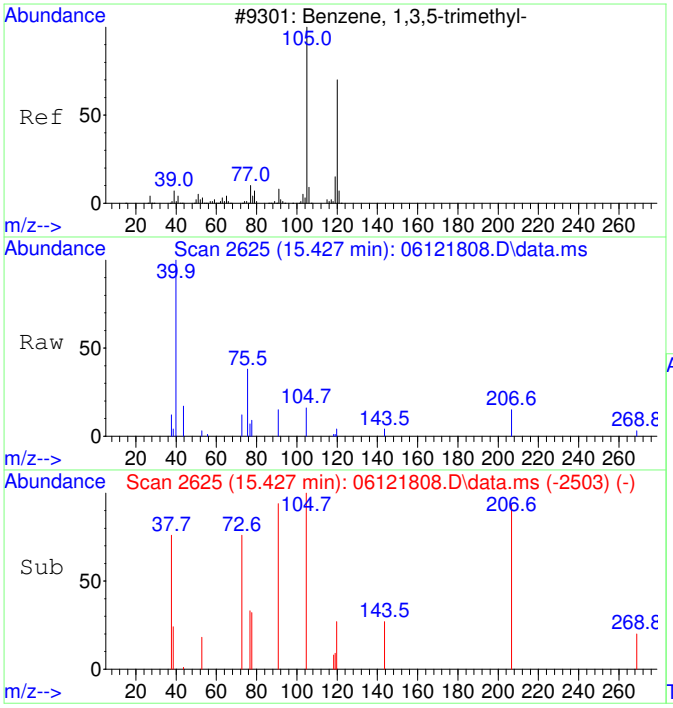


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 68.13 ug/L
RT: 14.954 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 360

Ion	Ratio	Lower	Upper
83	100		
85	54.7	31.6	91.6
95	22.5	0.0	49.0

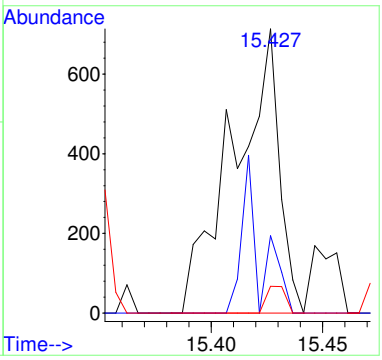


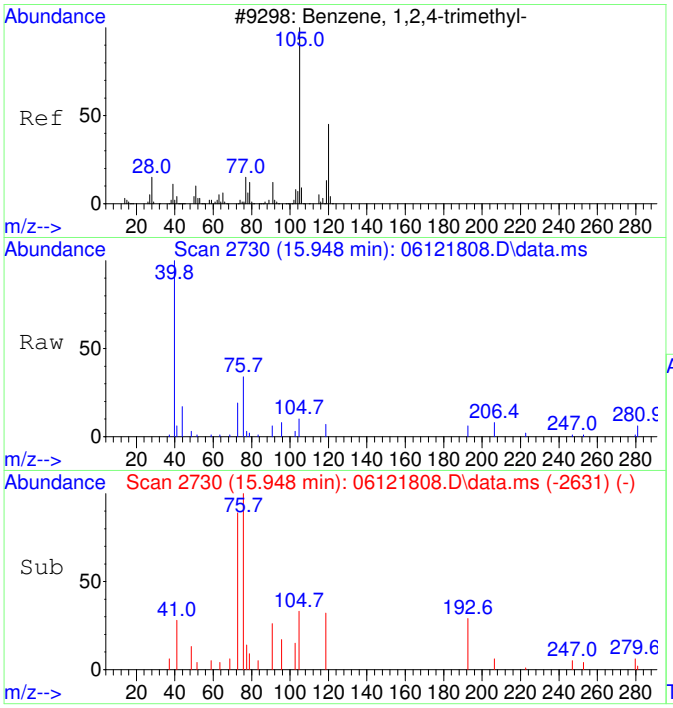


#46
1,3,5-Trimethylbenzene SCAN
Concen: 92.46 ug/L
RT: 15.427 min Scan# 2625
Delta R.T. 0.014 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1022

Ion	Ratio	Lower	Upper
105	100		
120	22.7	16.8	76.8
119	0.0	0.0	41.5

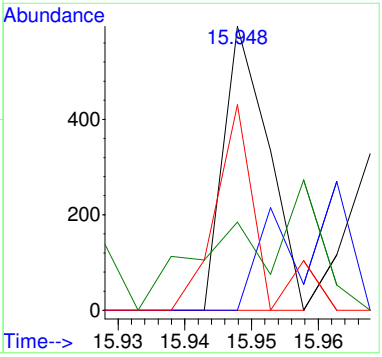


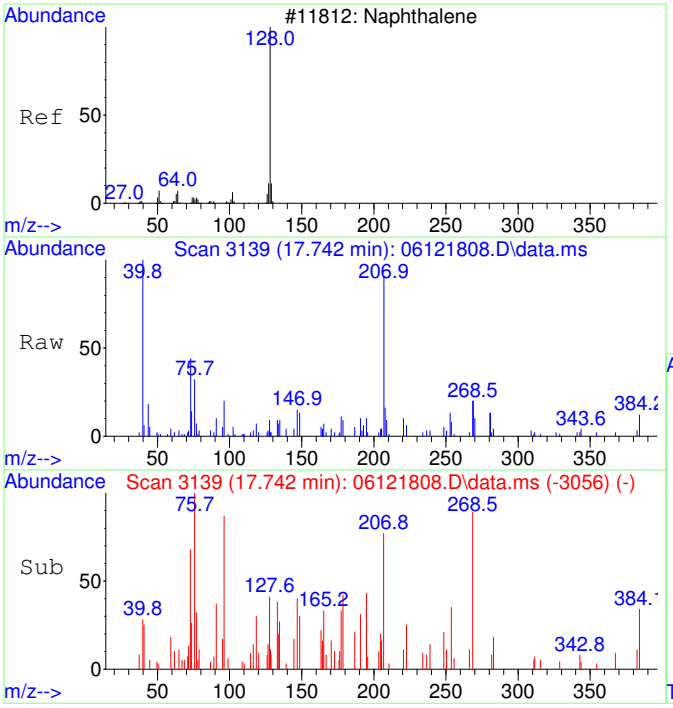


#47
1,2,4-Trimethylbenzene SCAN
Concen: 24.45 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. -0.006 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 277

Ion	Ratio	Lower	Upper
105	100		
120	58.1	15.4	75.4
119	69.0	0.0	41.7#
77	86.3	0.0	42.0#

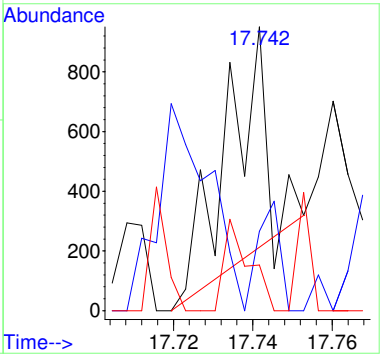




#48
Naphthalene SCAN
Concen: 33.66 ug/L
RT: 17.742 min Scan# 3139
Delta R.T. -0.193 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:128 Resp: 544

Ion	Ratio	Lower	Upper
128	100		
127	25.9	0.0	43.9
129	24.8	0.0	40.5



S18F027-SCV1

SCV REPORT

Instrument Name: AG5975C
Sample Name: S18F027-SCV1
Misc Info: 1824014 5 mg/L
Date Acquired: 6/12/2018
QLast Update: Thu Jun 14 17:09:21 2018
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	11.033	5000	5000.00	100%	70	130	pass
2)	1,1-Dichloroethene	3.104	5000	4786.49	96%	70	130	pass
3)	trans-1,2-Dichloroethene	4.323	5000	4619.72	92%	70	130	pass
4)	1,1-Dichloroethane	5.079	5000	4538.10	91%	70	130	pass
5)	cis-1,2-Dichloroethene	6.108	5000	4334.23	87%	70	130	pass
6)	Chloroform	6.688	5000	4392.85	88%	70	130	pass
7)	1,1,1-Trichloroethane	6.944	5000	4528.58	91%	70	130	pass
8)	Carbon tetrachloride	7.223	5000	4480.46	90%	70	130	pass
9)	Benzene	7.552	5000	4440.54	89%	70	130	pass
10)	1,2-Dichloroethane	7.588	5000	4495.59	90%	70	130	pass
11)	Trichloroethene	8.629	5000	4598.11	92%	70	130	pass
12)	Toluene-d8	10.550	5000	5046.82	101%	70	130	pass
13)	Toluene	10.645	5000	4729.90	95%	70	130	pass
14)	1,1,2-Trichloroethane	11.295	5000	4848.00	97%	70	130	pass
15)	Tetrachloroethene	11.495	5000	5096.22	102%	70	130	pass
16)	Chlorobenzene	12.837	5000	5301.62	106%	70	130	pass
17)	1,1,1,2-Tetrachloroethane	12.988	5000	5322.26	106%	70	130	pass
18)	Ethylbenzene	13.043	5000	5305.02	106%	70	130	pass
19)	m&p-Xylene	13.234	10000	10772.54	108%	70	130	pass
20)	o-Xylene	13.854	5000	5506.49	110%	70	130	pass
21)	1,1,2,2-Tetrachloroethane	14.951	5000	5446.63	109%	70	130	pass
22)	1,3,5-Trimethylbenzene	15.414	5000	5672.81	113%	70	130	pass
23)	1,2,4-Trimethylbenzene	15.955	5000	5728.36	115%	70	130	pass
24)	Naphthalene	17.936	5000	6303.89	126%	70	130	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121809.D
Acq On : 12 Jun 2018 16:06
InstName : AG5975C
Operator : RH
Sample : S18F027-SCV1
Misc : 1824014 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 14 17:13:59 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

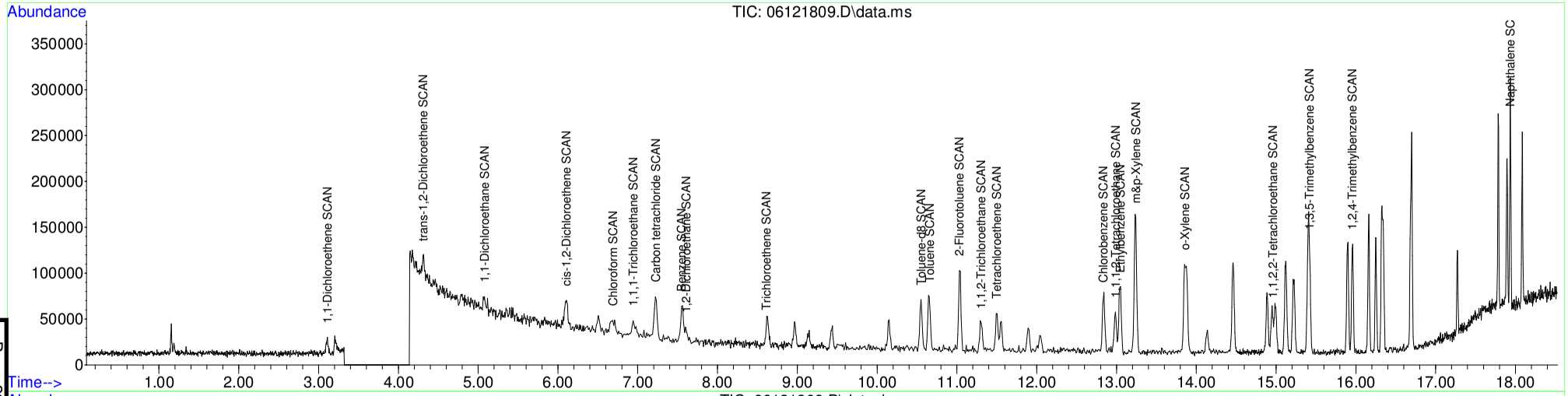
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	79376	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	65069	5046.82 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.94%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	15922	4786.49 ug/L	99
3] trans-1,2-Dichloroethene	4.309	61	16397	4619.72 ug/L	100
4] 1,1-Dichloroethane	5.072	63	20048	4538.10 ug/L	99
5] cis-1,2-Dichloroethene	6.108	61	18889	4334.23 ug/L	99
6] Chloroform	6.688	83	20614	4392.85 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	20917	4528.58 ug/L	100
8] Carbon tetrachloride	7.211	117	19603	4480.46 ug/L	99
9] Benzene	7.552	78	56593	4440.54 ug/L	99
10] 1,2-Dichloroethane	7.588	62	18465	4495.59 ug/L	99
11] Trichloroethene	8.624	130	16106	4598.11 ug/L	100
13] Toluene	10.645	91	81765	4729.90 ug/L	99
14] 1,1,2-Trichloroethane	11.295	97	17322	4848.00 ug/L	99
15] Tetrachloroethene	11.495	166	24821	5096.22 ug/L	99
16] Chlorobenzene	12.837	112	65412	5301.62 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.988	131	22285	5322.26 ug/L	100
18] Ethylbenzene	13.043	91	110053	5305.02 ug/L	100
19] m&p-Xylene	13.234	91	172482	10772.54 ug/L	100
20] o-Xylene	13.854	91	93375	5506.49 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.951	83	39776	5446.63 ug/L	100
22] 1,3,5-Trimethylbenzene	15.414	105	108842	5672.81 ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	109940	5728.36 ug/L	100
24] Naphthalene	17.937	128	198549	6303.89 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	48733	5268.76 ug/L	94
26) 1,1-Dichloroethene SCAN	3.107	61	1954	846.60 ug/L #	1
27) trans-1,2-Dichloroethe...	4.308	61	11120	4138.42 ug/L	93
28) 1,1-Dichloroethane SCAN	5.078	63	13731	4016.86 ug/L	94
29) cis-1,2-Dichloroethene...	6.106	61	14540	4918.22 ug/L	91
30) Chloroform SCAN	6.687	83	17611	4853.20 ug/L	84
31) 1,1,1-Trichloroethane ...	6.942	97	12574	3892.58 ug/L	77
32) Carbon tetrachloride SCAN	7.222	117	13422	4216.98 ug/L	94
33) Benzene SCAN	7.550	78	44867	4657.72 ug/L	92
34) 1,2-Dichloroethane SCAN	7.599	62	11933	3632.43 ug/L	83
35) Trichloroethene SCAN	8.612	130	9596	4070.89 ug/L #	72
36) Toluene-d8 SCAN	10.549	98	38306	4581.27 ug/L	96
37) Toluene SCAN	10.654	91	56903	5327.55 ug/L	91
38) 1,1,2-Trichloroethane ...	11.305	97	9628	4704.17 ug/L	84
39) Tetrachloroethene SCAN	11.493	166	11857	5058.90 ug/L	78
40) Chlorobenzene SCAN	12.835	112	39717	6129.87 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.986	131	13294	5748.17 ug/L	87
42) Ethylbenzene SCAN	13.042	91	67332	5423.31 ug/L	96
43) m&p-Xylene SCAN	13.241	91	107192	6220.10 ug/L	98
44) o-Xylene SCAN	13.852	91	55261	5633.99 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.953	83	29445	6333.90 ug/L	90
46) 1,3,5-Trimethylbenzene...	15.418	105	65105	6694.45 ug/L	92
47) 1,2,4-Trimethylbenzene...	15.959	105	64656	6487.13 ug/L	97
48) Naphthalene SCAN	17.936	128	102686	7220.90 ug/L	95

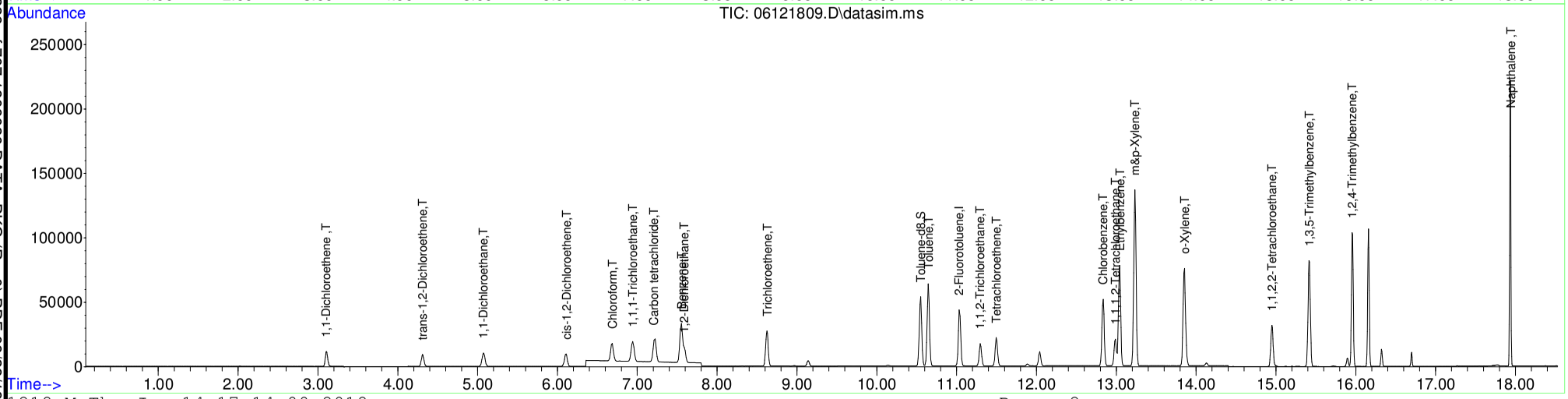
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121809.D
Acq On : 12 Jun 2018 16:06
InstName : AG5975C
Operator : RH
Sample : S18F027-SCV1
Misc : 1824014 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 14 17:13:59 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration





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SEQUENCE

S18I078

Sequence Date: 09/24/2018

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B18H167	SEQUENCE #:	S18I078 09/24/18
BATCH #:		ANALYSIS:	VOA Passive Air.

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
DOCUMENTATION	ANALYST: Bench sheet(s) attached? REVIEWER: Bench sheet(s) reviewed?	☐	Y	Y	reviewed by AS
	ANALYST: Sequence log(s) attached? REVIEWER: Sequence log(s) reviewed?	☐	Y	Y	
	ANALYST: Every run has a PDF in LIMS? REVIEWER: Every PDF reviewed?	☐	Y	Y	
INITIAL CALIBRATION	Date of Initial Calibration used: If applicable, note date of "Last Update" in Comments.	Thu Jun 28 07:20:56 2018			
	Initial Calibration ID (LIMS number):	1806010			
	ICAL within QC criteria?	☑			
	SCV within QC criteria?	☑			
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?	☐	Y	Y	
	CCV(s) within QC criteria?	☐	Y	Y	
	QLS(s) within QC criteria?	☐	Y	Y	
	CB(s) or storage blank(s) within QC criteria?	☑			
	Other instrument checks within QC criteria? Specify if applicable.	☑			
BATCH QCs	Method blanks < 1/2 QL?	☐	Y	Y	
	LCS(s) or SRM(s) within QC criteria?	☐	Y	Y	
	MSs/MSDs and/or DUPs within QC criteria?	☑		Y	BS/BSD good
	Other method-specific QCs within QC criteria? Specify if applicable.	☑		Y	MRL within criteria.

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B18H167	SEQUENCE #:	S18I078 09/24/18
BATCH #:		ANALYSIS:	VOA Passive Air.

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☐	Y	Y	
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	☐	Y	Y	Re-runs are in the same sequence.
	Do any samples need to be re-digested or re-extracted?	✔			
	Were all data qualifiers appropriately applied?	☐	Y	Y	
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	✔			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	1,1-DCE in CRL2, MRL1, and samples 1809026-01-03

APPROVALS	ANALYST INITIALS & DATE:	RH 09/24/18
	REVIEWED BY:	KATHLEEN O'BRIEN (affiliate) Digitally signed by KATHLEEN O'BRIEN (affiliate) Date: 2018.09.27 12:11:48 -07'00' SIGN HERE

COMMENTS

Limited project specific list

Injection Log

Operator: RH
Directory: C:\msdchem\1\Ravioli Data\2018\092418\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	09241801.D	1	S18I078-IBL1		24 Sep 2018 12:32
2	09241802.D	1	S18I078-TUN1	BFB 1835046	24 Sep 2018 12:53
3	09241803.D	1	S18I078-CCV1	1823100 5 mg/L	24 Sep 2018 13:03
4	09241804.D	1	S18I078-CRL1	1823102 0.15 mg/L	24 Sep 2018 13:26
5	09241805.D	1	S18I078-CRL2	1823103 0.05 mg/L	24 Sep 2018 13:50
6	09241806.D	1	B18I067-BLK1		24 Sep 2018 14:14
7	09241807.D	1	B18I067-BS1		24 Sep 2018 14:37
8	09241808.D	1	B18I067-BSD1		24 Sep 2018 15:01
9	09241809.D	1	B18I067-MRL1		24 Sep 2018 15:25
10	09241810.D	1	1809026-01		24 Sep 2018 15:48
11	09241811.D	1	1809026-02		24 Sep 2018 16:12
12	09241812.D	1	1809026-03		24 Sep 2018 16:36
1	09241813.D	1	S18I027-IBL2		24 Sep 2018 16:59
13	09241814.D	2	1809026-01RE1	100 UL + 100 UL	24 Sep 2018 17:23
14	09241815.D	5	1809026-03RE1	20 UL + 80 UL	24 Sep 2018 17:47

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2018\092418\09241802.D
Tune Time : 24 Sep 2018 12:53

Daily Calibration File : C:\msdchem\1\Ravioli Data\2018\092418\09241803.D

File	Sample	Surrogate Recovery %	Internal Standard Responses
			106532
09241803.D			
	S18I078-CC	102	106532
09241804.D			
	S18I078-CR	3*	130943
09241805.D			
	S18I078-CR	1*	160370
09241806.D			
	B18I067-BL	105	119726
09241807.D			
	B18I067-BS	107	104099
09241808.D			
	B18I067-BS	107	131202
09241809.D			
	B18I067-MR	100	100827
09241810.D			
	1809026-01	104	124110
09241811.D			
	1809026-02	103	158603
09241812.D			
	1809026-03	102	82470
09241814.D			
	1809026-01	102	156170
09241815.D			
	1809026-03	103	107487

(fails) - fails 12hr time check * - fails criteria

Created: Wed Sep 26 15:38:03 2018 AG5975C

Analysis Sequence

S18I078

Project: R18S50
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 1806010 Printed: 09/26/2018 4:07 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S18I078-IBL1	Instrument Blank	1	9/24/18 12:32		1823097	RH	09241801.D	
S18I078-TUN1	BFB	2	9/24/18 12:53	1835046		RH	09241802.D	
S18I078-CCV1	Calibration Check	3	9/24/18 13:03	1823100		RH	09241803.D	
S18I078-CRL1	Instrument RL Check	4	9/24/18 13:26	1823102		RH	09241804.D	
S18I078-CRL2	Instrument RL Check	5	9/24/18 13:50	1823103		RH	09241805.D	
B18I067-BLK1	Blank	6	9/24/18 14:14			RH	09241806.D	
B18I067-BS1	LCS	7	9/24/18 14:37			RH	09241807.D	
B18I067-BSD1	LCS Dup	8	9/24/18 15:01			RH	09241808.D	
B18I067-MRL1	MRL Check	9	9/24/18 15:25			RH	09241809.D	
1809026-01 A	F5-060-4ft-1d	10	9/24/18 15:48			RH	09241810.D	
1809026-02 A	F5-062-4ft-1d	11	9/24/18 16:12			RH	09241811.D	
1809026-03 A	F6-006-4ft-1d	12	9/24/18 16:36			RH	09241812.D	
S18I078-IBL2	Instrument Blank	13	9/24/18 16:59			RH	09241813.D	
1809026-01RE1 A	F5-060-4ft-1d	14	9/24/18 17:23			RH	09241814.D	
1809026-03RE1 A	F6-006-4ft-1d	15	9/24/18 17:47			RH	09241815.D	

Sequence Comments

Reagents

Reagent # **Description**

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Analysis Sequence

S18I078

(Continued)

Project: R18S50
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 1806010 Printed: 09/26/2018 4:07 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments

Table of Contents

SEQUENCE DATA

S18I078

S18I078-IBL1

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241801.D
Acq On : 24 Sep 2018 12:32
InstName : AG5975C
Operator : RH
Sample : S18I078-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 26 14:24:08 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

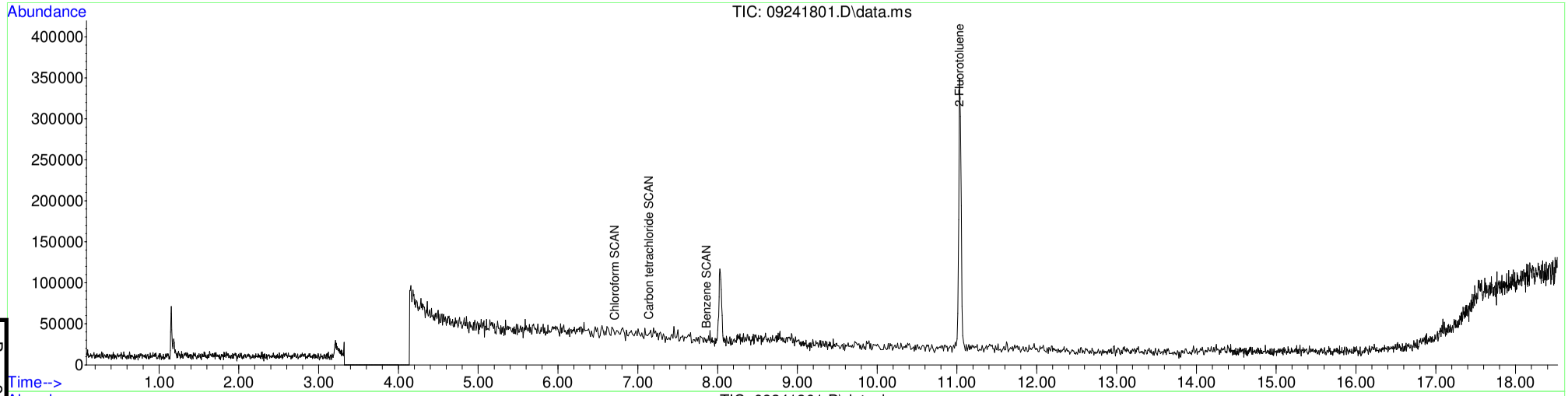
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	434438	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	60	0.85	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 0.02%#			
Target Compounds						Qvalue
25) 2-Fluorotoluene SCAN	11.032	109	260690	5149.57	ug/L	97
30) Chloroform SCAN	6.711	83	425	21.40	ug/L #	28
32) Carbon tetrachloride SCAN	7.137	117	884	50.75	ug/L #	13
33) Benzene SCAN	7.860	78	1999	37.92	ug/L	81

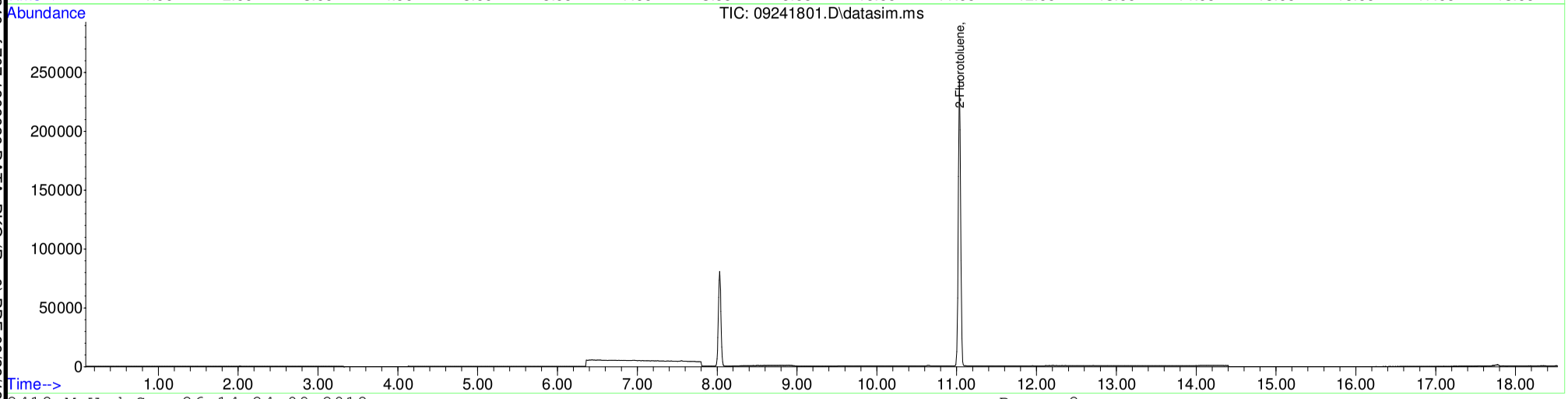
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241801.D
Acq On : 24 Sep 2018 12:32
InstName : AG5975C
Operator : RH
Sample : S18I078-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 26 14:24:08 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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S18I078-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241803.D
Acq On : 24 Sep 2018 13:03
InstName : AG5975C
Operator : RH
Sample : S18I078-CCV1
Misc : 1823100 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 15:24:44 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.03min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	2-Fluorotoluene	1.000	1.000	0.0	85	0.00
2	T	1,1-Dichloroethene	0.210	0.233	-11.0	86	0.00
3	T	trans-1,2-Dichloroethene	0.224	0.243	-8.5	86	0.00
4	T	1,1-Dichloroethane	0.278	0.325	-16.9	93	0.00
5	T	cis-1,2-Dichloroethene	0.275	0.308	-12.0	91	0.00
6	T	Chloroform	0.296	0.300	-1.4	84	0.00
7	T	1,1,1-Trichloroethane	0.291	0.290	0.3	82	0.01
8	T	Carbon tetrachloride	0.276	0.264	4.3	80	0.00
9	T	Benzene	0.803	0.791	1.5	84	0.00
10	T	1,2-Dichloroethane	0.259	0.244	5.8	77	0.00
11	T	Trichloroethene	0.221	0.238	-7.7	91	0.00
12	S	Toluene-d8	0.812	0.827	-1.8	88	0.00
13	T	Toluene	1.089	0.999	8.3	85	0.00
14	T	1,1,2-Trichloroethane	0.225	0.216	4.0	86	0.00
15	T	Tetrachloroethene	0.307	0.321	-4.6	93	0.00
16	T	Chlorobenzene	0.777	0.790	-1.7	92	0.00
17	T	1,1,1,2-Tetrachloroethane	0.264	0.278	-5.3	95	0.00
18	T	Ethylbenzene	1.307	1.369	-4.7	97	0.00
19	T	m&p-Xylene	1.009	1.089	-7.9	100	0.00
20	T	o-Xylene	1.068	1.191	-11.5	104	0.00
21	T	1,1,2,2-Tetrachloroethane	0.460	0.523	-13.7	105	0.00
22	T	1,3,5-Trimethylbenzene	1.209	1.269	-5.0	101	0.00
23	T	1,2,4-Trimethylbenzene	1.209	1.293	-6.9	102	0.00
24	T	Naphthalene	1.984	2.293	-15.6	118	0.00
25		2-Fluorotoluene SCAN	0.583	0.707	-21.3	103	0.00
26		1,1-Dichloroethene SCAN	0.145	0.021	85.5#	12#	0.00
27		trans-1,2-Dichloroethene SC	0.169	0.187	-10.7	94	0.01
28		1,1-Dichloroethane SCAN	0.215	0.258	-20.0	102	0.00
29		cis-1,2-Dichloroethene SCAN	0.186	0.234	-25.8	107	0.00
30		Chloroform SCAN	0.229	0.264	-15.3	98	-0.01
31		1,1,1-Trichloroethane SCAN	0.203	0.212	-4.4	88	0.00
32		Carbon tetrachloride SCAN	0.200	0.215	-7.5	91	0.01
33		Benzene SCAN	0.607	0.639	-5.3	90	0.00
34		1,2-Dichloroethane SCAN	0.207	0.179	13.5	74	0.01
35		Trichloroethene SCAN	0.148	0.144	2.7	83	0.01
36		Toluene-d8 SCAN	0.527	0.639	-21.3	103	0.01
37		Toluene SCAN	0.673	0.711	-5.6	90	0.00
38		1,1,2-Trichloroethane SCAN	0.129	0.163	-26.4	107	0.00
39		Tetrachloroethene SCAN	0.148	0.195	-31.8#	112	0.00
40		Chlorobenzene SCAN	0.408	0.486	-19.1	101	0.00
41		1,1,1,2-Tetrachloroethane S	0.146	0.159	-8.9	93	0.00
42		Ethylbenzene SCAN	0.782	0.932	-19.2	101	0.00
43		m&p-Xylene SCAN	1.086	1.383	-27.3	108	0.00
44		o-Xylene SCAN	0.618	0.644	-4.2	89	0.00
45		1,1,2,2-Tetrachloroethane S	0.293	0.383	-30.7#	111	0.00
46		1,3,5-Trimethylbenzene SCAN	0.613	0.778	-26.9	108	0.00
47		1,2,4-Trimethylbenzene SCAN	0.628	0.855	-36.1#	116	0.00
48		Naphthalene SCAN	0.896	1.388	-54.9#	132	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241803.D
Acq On : 24 Sep 2018 13:03
InstName : AG5975C
Operator : RH
Sample : S18I078-CCV1
Misc : 1823100 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 15:24:44 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

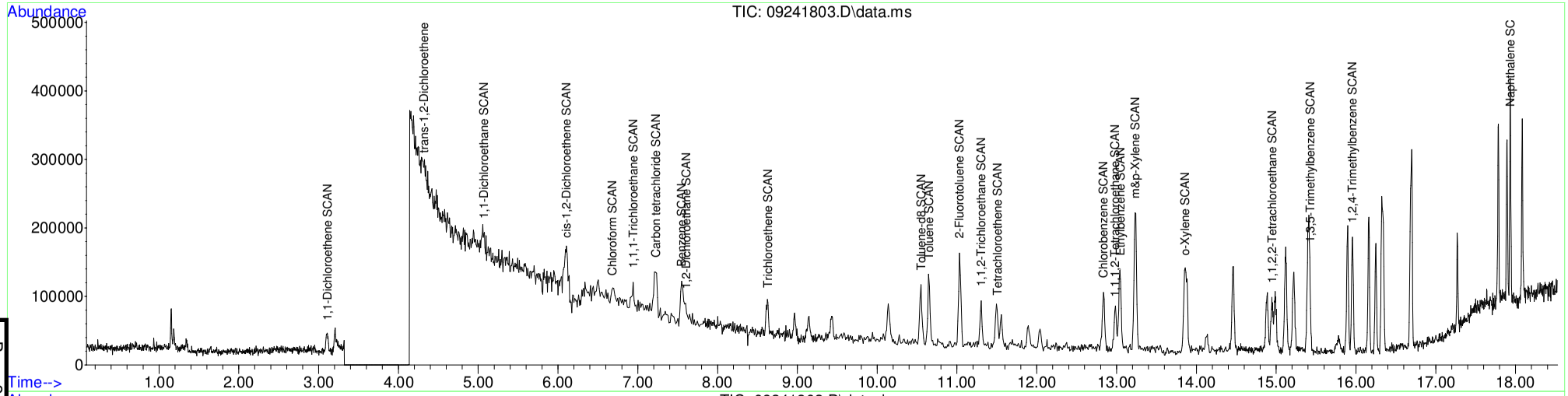
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	106532	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	88152	5094.31 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.89%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.108	61	24790	5552.71 ug/L	98
3] trans-1,2-Dichloroethene	4.309	61	25935	5444.35 ug/L	100
4] 1,1-Dichloroethane	5.072	63	34668	5847.10 ug/L	100
5] cis-1,2-Dichloroethene	6.101	61	32772	5602.93 ug/L	100
6] Chloroform	6.676	83	31916	5067.60 ug/L	98
7] 1,1,1-Trichloroethane	6.943	97	30943	4991.54 ug/L	98
8] Carbon tetrachloride	7.211	117	28079	4781.80 ug/L	100
9] Benzene	7.552	78	84272	4926.80 ug/L	97
10] 1,2-Dichloroethane	7.588	62	25981	4713.05 ug/L	94
11] Trichloroethene	8.624	130	25319	5385.77 ug/L	99
13] Toluene	10.645	91	106412	4586.53 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	23014	4799.17 ug/L	99
15] Tetrachloroethene	11.495	166	34175	5228.13 ug/L	100
16] Chlorobenzene	12.837	112	84213	5085.57 ug/L	97
17] 1,1,1,2-Tetrachloroethane	12.980	131	29571	5262.09 ug/L	100
18] Ethylbenzene	13.035	91	145846	5238.28 ug/L	99
19] m&p-Xylene	13.234	91	231957	10794.21 ug/L	100
20] o-Xylene	13.846	91	126870	5574.59 ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.947	83	55718	5684.75 ug/L	100
22] 1,3,5-Trimethylbenzene	15.413	105	135212	5250.81 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	137705	5346.05 ug/L	100
24] Naphthalene	17.936	128	244328	5779.94 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	75315	6067.03 ug/L	89
26) 1,1-Dichloroethene SCAN	3.111	61	2201	710.53 ug/L #	1
27) trans-1,2-Dichloroethe...	4.321	61	19915	5522.29 ug/L	88
28) 1,1-Dichloroethane SCAN	5.071	63	27538	6002.42 ug/L	94
29) cis-1,2-Dichloroethene...	6.100	61	24975	6294.46 ug/L	91
30) Chloroform SCAN	6.675	83	28094	5768.55 ug/L	87
31) 1,1,1-Trichloroethane ...	6.942	97	22535	5197.93 ug/L	91
32) Carbon tetrachloride SCAN	7.222	117	22868	5353.30 ug/L #	70
33) Benzene SCAN	7.550	78	68080	5265.93 ug/L	94
34) 1,2-Dichloroethane SCAN	7.599	62	19086	4328.84 ug/L	89
35) Trichloroethene SCAN	8.628	130	15367	4857.33 ug/L	88
36) Toluene-d8 SCAN	10.549	98	68070	6065.74 ug/L	95
37) Toluene SCAN	10.643	91	75745	5283.91 ug/L	95
38) 1,1,2-Trichloroethane ...	11.305	97	17359	6319.47 ug/L	90
39) Tetrachloroethene SCAN	11.504	166	20770	6602.79 ug/L	82
40) Chlorobenzene SCAN	12.835	112	51763	5952.55 ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.978	131	16901	5444.97 ug/L #	71
42) Ethylbenzene SCAN	13.042	91	99288	5958.67 ug/L	92
43) m&p-Xylene SCAN	13.233	91	147326	6369.77 ug/L	95
44) o-Xylene SCAN	13.852	91	68639	5214.08 ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.946	83	40832	6544.40 ug/L	92
46) 1,3,5-Trimethylbenzene...	15.421	105	82893	6350.78 ug/L	93
47) 1,2,4-Trimethylbenzene...	15.958	105	91117	6811.65 ug/L	100
48) Naphthalene SCAN	17.931	128	147897	7749.06 ug/L	97

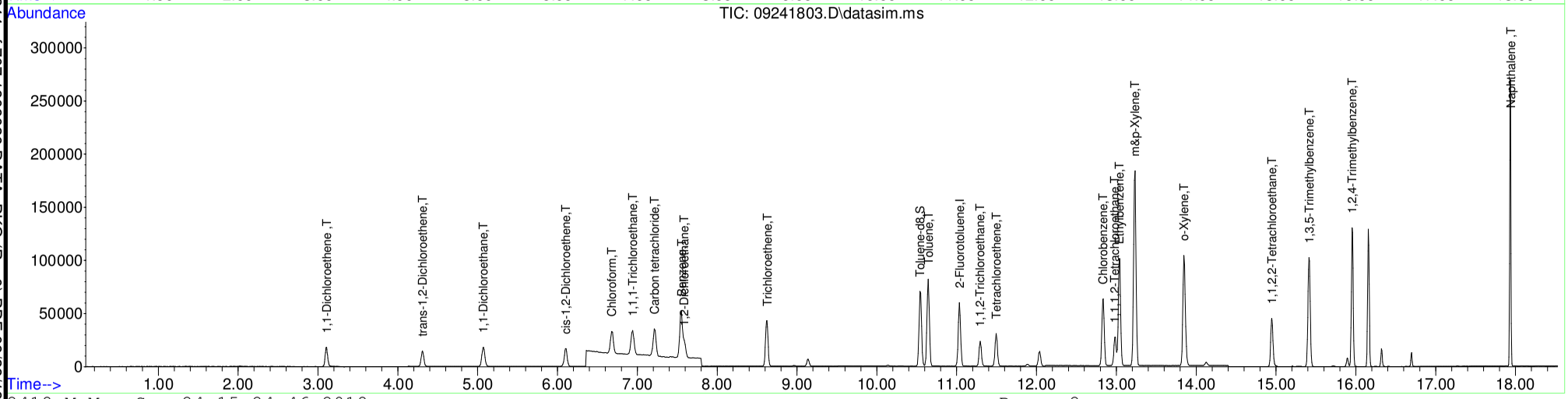
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241803.D
Acq On : 24 Sep 2018 13:03
InstName : AG5975C
Operator : RH
Sample : S18I078-CCV1
Misc : 1823100 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 15:24:44 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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S18I078-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S18I078-CRL1
Misc Info: 1823102 0.15 mg/L
Date Acquired: 9/24/18 13:26
QLast Update: Thu Jun 28 07:20:56 2018
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
9)	Benzene	7.552	150.0	161.96	108%	60	140	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241804.D
Acq On : 24 Sep 2018 13:26
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL1
Misc : 1823102 0.15 mg/L (Sig #1); 1823100 5 mg/L (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 26 14:29:01 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

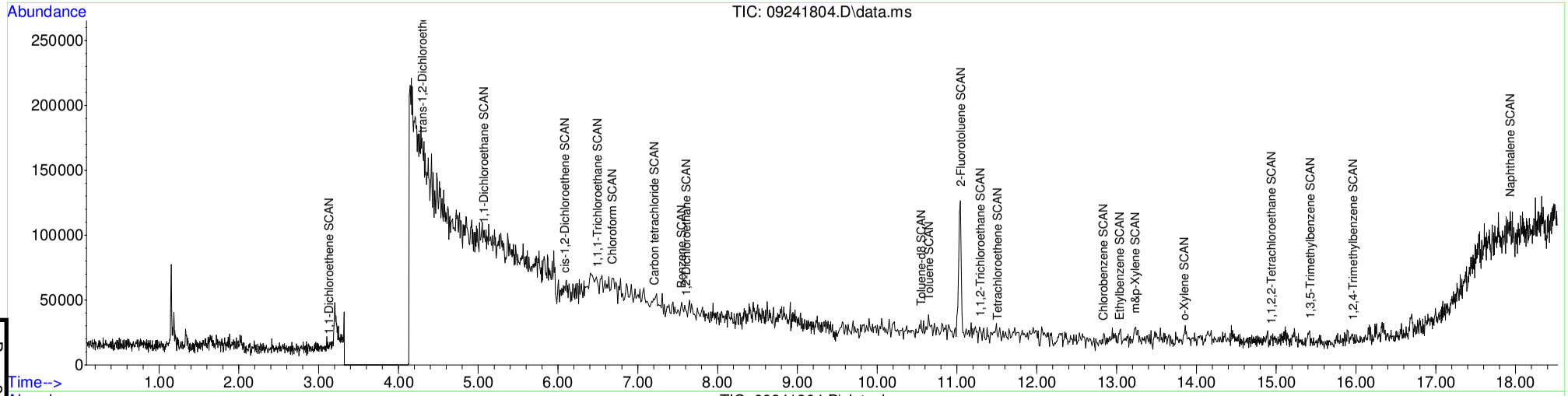
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	130943	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	3329	156.52	ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 3.13%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.105	61	1413	257.49	ug/L	93
3] trans-1,2-Dichloroethene	4.316	61	887	151.49	ug/L	89
4] 1,1-Dichloroethane	5.072	63	1070	146.82	ug/L	92
5] cis-1,2-Dichloroethene	6.101	61	1044	145.21	ug/L	88
6] Chloroform	6.676	83	1175	151.79	ug/L	89
7] 1,1,1-Trichloroethane	6.944	97	1036	135.97	ug/L	98
8] Carbon tetrachloride	7.211	117	913	126.50	ug/L	75
9] Benzene	7.552	78	3405	161.96	ug/L	91
10] 1,2-Dichloroethane	7.588	62	831	122.64	ug/L	99
11] Trichloroethene	8.624	130	889	153.85	ug/L	91
13] Toluene	10.645	91	4533	158.96	ug/L	99
14] 1,1,2-Trichloroethane	11.295	97	897	152.18	ug/L	94
15] Tetrachloroethene	11.495	166	1316	163.79	ug/L	95
16] Chlorobenzene	12.837	112	3153	154.91	ug/L	86
17] 1,1,1,2-Tetrachloroethane	12.980	131	1175	170.11	ug/L	79
18] Ethylbenzene	13.035	91	5940	173.57	ug/L	98
19] m&p-Xylene	13.234	91	9239	349.79	ug/L	97
20] o-Xylene	13.846	91	5014	179.24	ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.951	83	2106	174.81	ug/L	99
22] 1,3,5-Trimethylbenzene	15.414	105	5173	163.44	ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	5530	174.67	ug/L	100
24] Naphthalene	17.936	128	10329	198.80	ug/L	94
25) 2-Fluorotoluene SCAN	11.042	109	83560	5476.34	ug/L	94
26) 1,1-Dichloroethene SCAN	3.129	61	216	56.73	ug/L #	1
27) trans-1,2-Dichloroethe...	4.302	61	289	65.20	ug/L #	1
28) 1,1-Dichloroethane SCAN	5.071	63	1350	239.40	ug/L #	56
29) cis-1,2-Dichloroethene...	6.080	61	346	70.95	ug/L #	30
30) Chloroform SCAN	6.675	83	706	117.94	ug/L #	64
31) 1,1,1-Trichloroethane ...	6.492	97	211	39.60	ug/L #	26
32) Carbon tetrachloride SCAN	7.210	117	341	64.94	ug/L #	30
33) Benzene SCAN	7.550	78	4488	282.43	ug/L #	69
34) 1,2-Dichloroethane SCAN	7.599	62	350	64.58	ug/L #	1
36) Toluene-d8 SCAN	10.549	98	3224	233.73	ug/L	64
37) Toluene SCAN	10.643	91	4226	239.84	ug/L #	31
38) 1,1,2-Trichloroethane ...	11.294	97	494	146.31	ug/L #	5
39) Tetrachloroethene SCAN	11.504	166	470	121.56	ug/L #	5
40) Chlorobenzene SCAN	12.836	112	1942	181.69	ug/L	81
42) Ethylbenzene SCAN	13.034	91	5257	256.68	ug/L	64
43) m&p-Xylene SCAN	13.233	91	6261	220.23	ug/L	89
44) o-Xylene SCAN	13.844	91	3585	221.56	ug/L #	63
45) 1,1,2,2-Tetrachloroeth...	14.942	83	620	80.85	ug/L #	59
46) 1,3,5-Trimethylbenzene...	15.423	105	3047	189.92	ug/L #	59
47) 1,2,4-Trimethylbenzene...	15.959	105	3418	207.88	ug/L #	54
48) Naphthalene SCAN	17.935	128	7121	303.55	ug/L	71

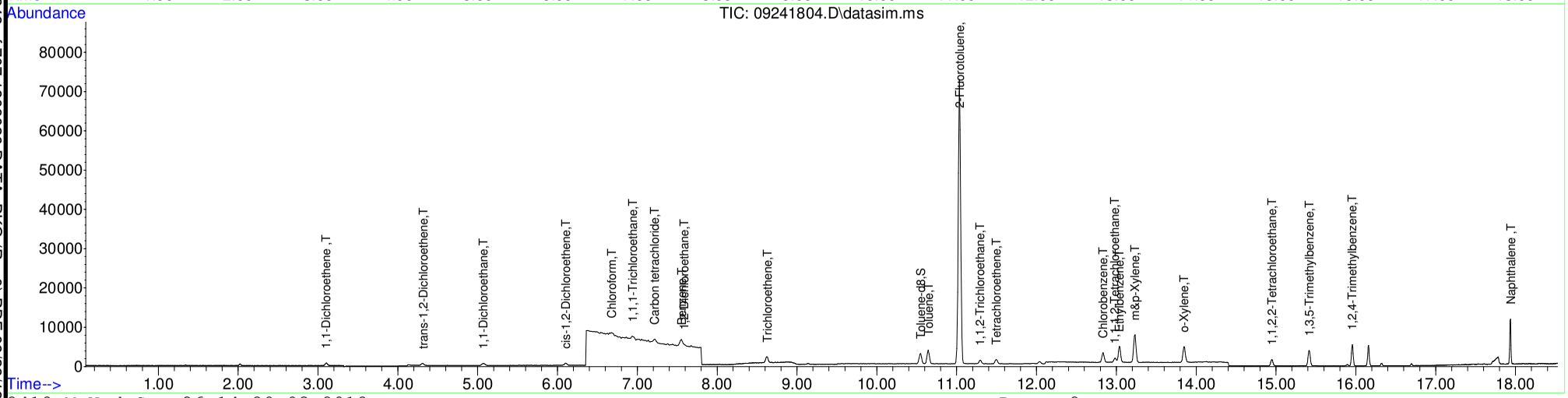
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241804.D
Acq On : 24 Sep 2018 13:26
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL1
Misc : 1823102 0.15 mg/L (Sig #1); 1823100 5 mg/L (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 26 14:29:01 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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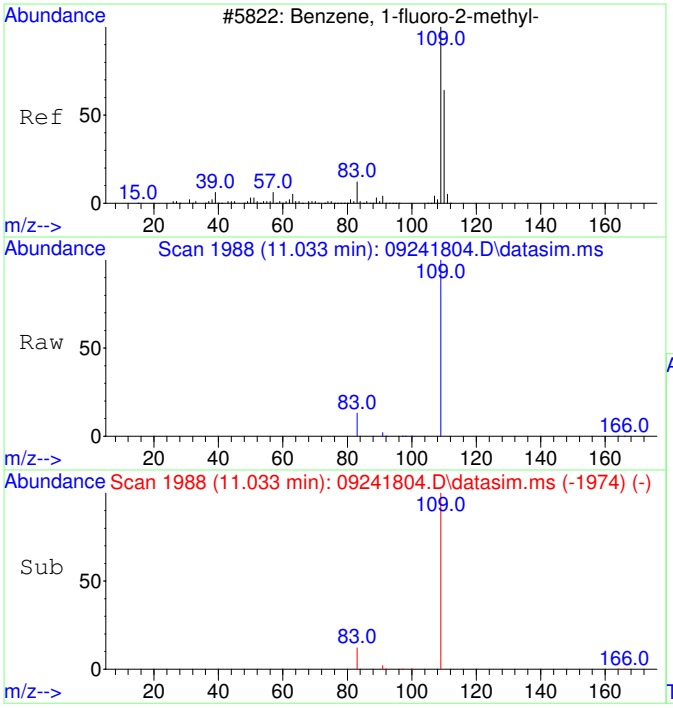
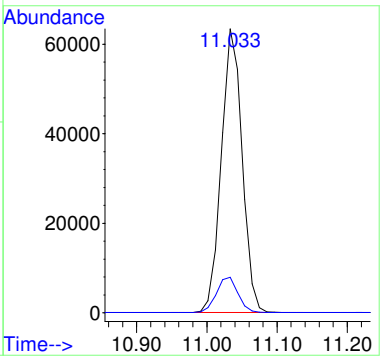
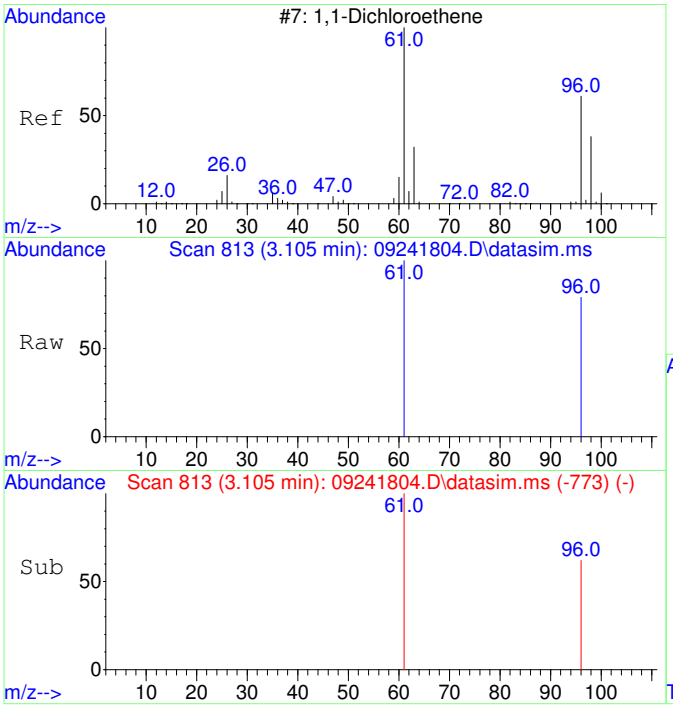


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:109 Resp: 130943

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.7

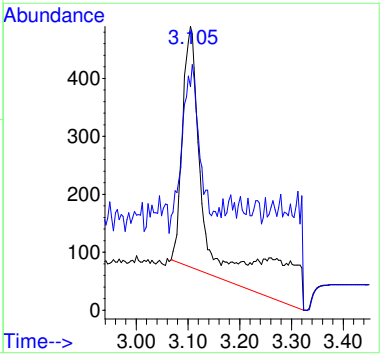


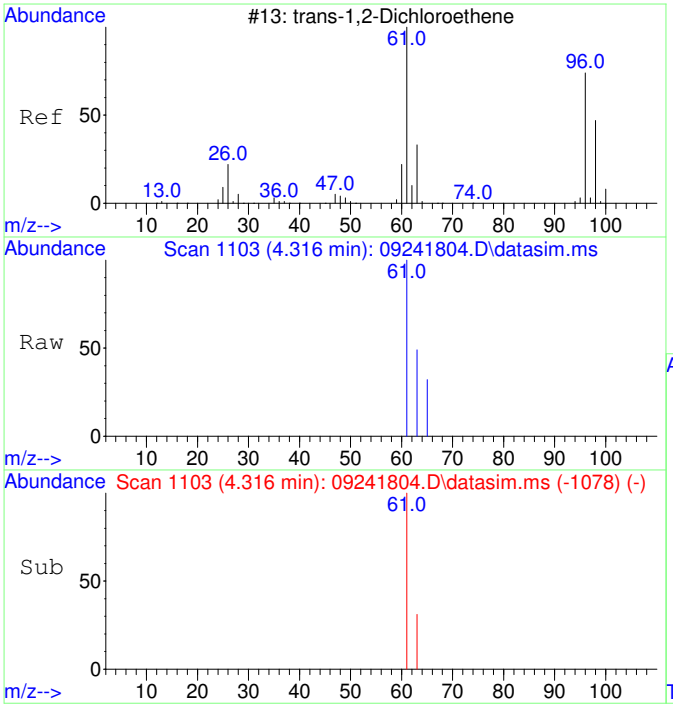


#2
1,1-Dichloroethene
Concen: 257.49 ug/L
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 1413

Ion	Ratio	Lower	Upper
61	100		
96	64.0	28.7	88.7

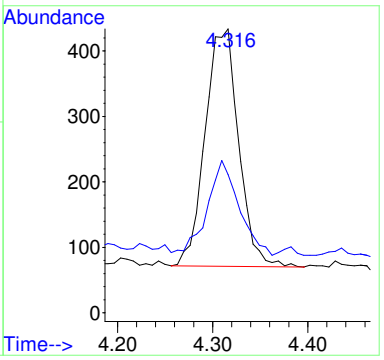


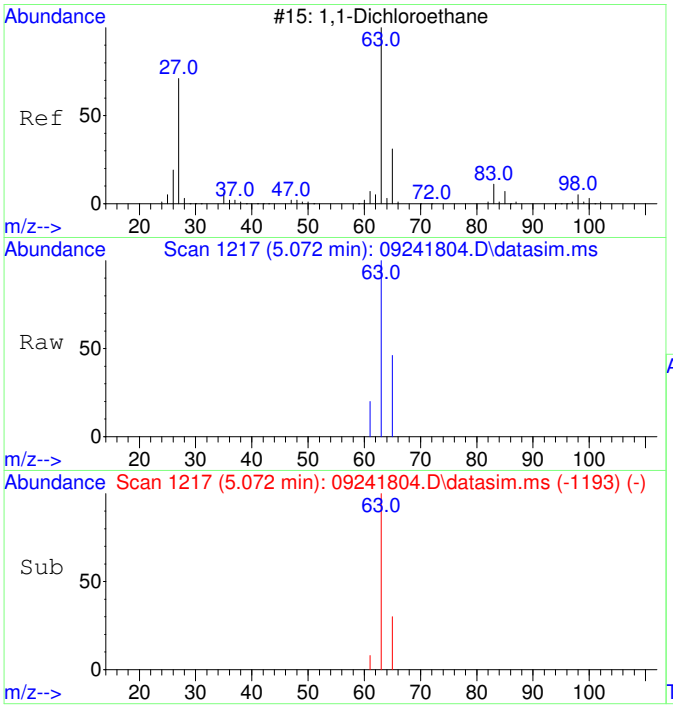


#3
trans-1,2-Dichloroethene
Concen: 151.49 ug/L
RT: 4.316 min Scan# 1103
Delta R.T. 0.013 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 887

Ion	Ratio	Lower	Upper
61	100		
63	38.1	2.0	62.0

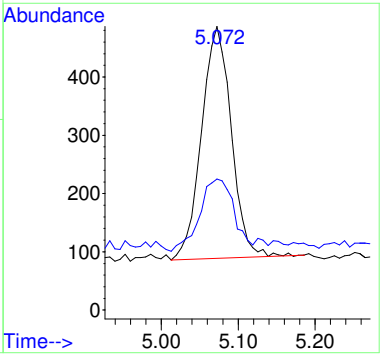


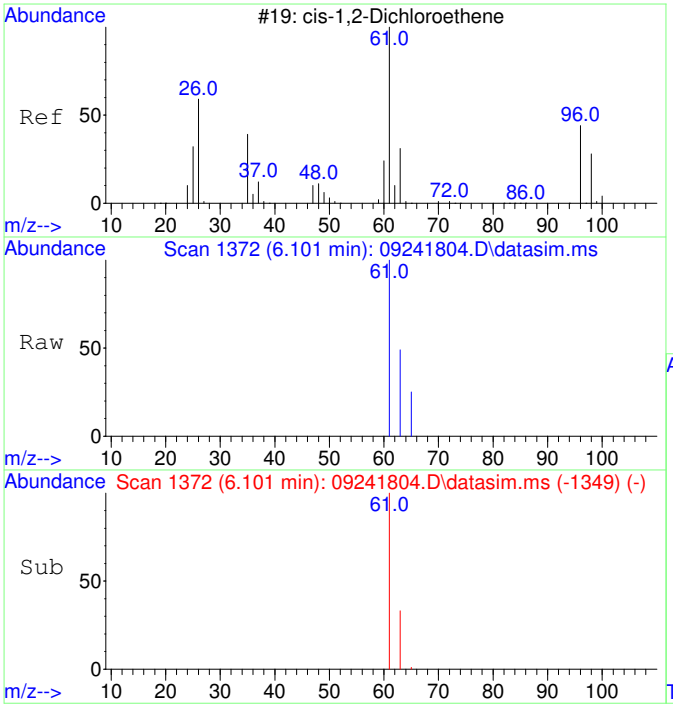


#4
1,1-Dichloroethane
Concen: 146.82 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 63 Resp: 1070

Ion	Ratio	Lower	Upper
63	100		
65	35.8	1.5	61.5

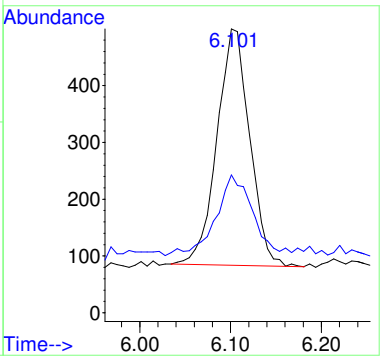


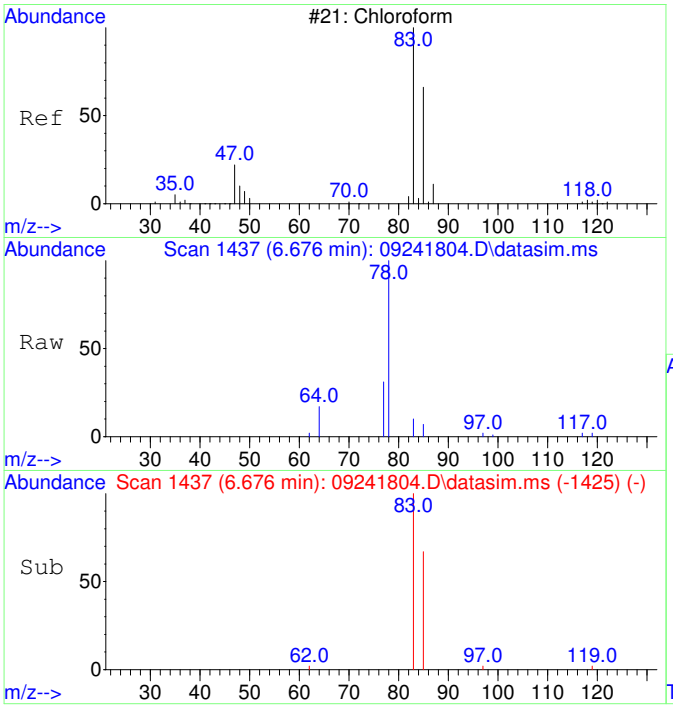


#5
cis-1,2-Dichloroethene
Concen: 145.21 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 1044

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.2	62.2

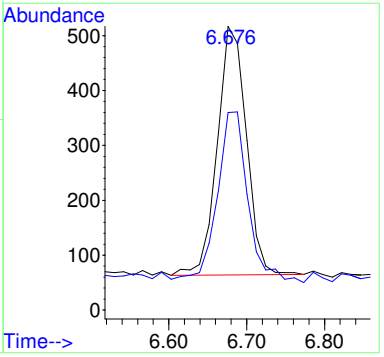


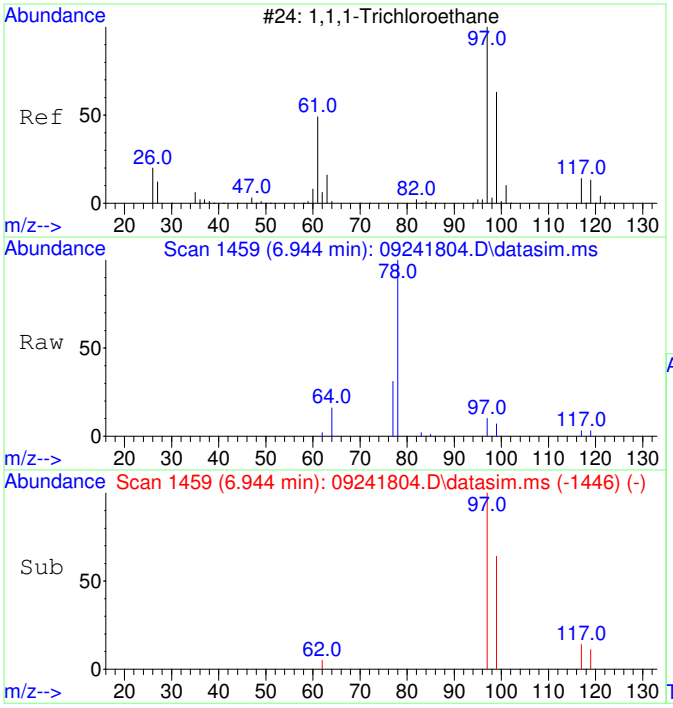


#6
Chloroform
Concen: 151.79 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 83 Resp: 1175

Ion	Ratio	Lower	Upper
83	100		
85	73.4	34.8	94.8

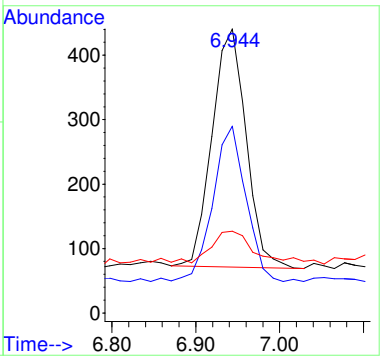


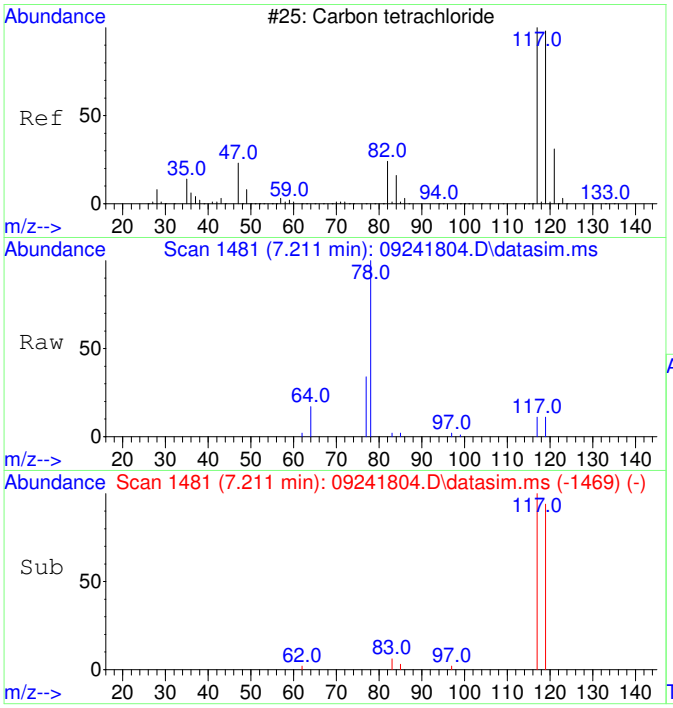


#7
1,1,1-Trichloroethane
Concen: 135.97 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 97 Resp: 1036

Ion	Ratio	Lower	Upper
97	100		
99	63.6	34.6	94.6
117	15.3	0.0	42.9

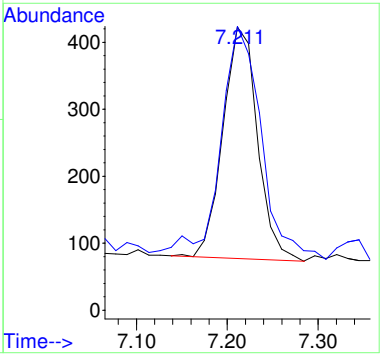


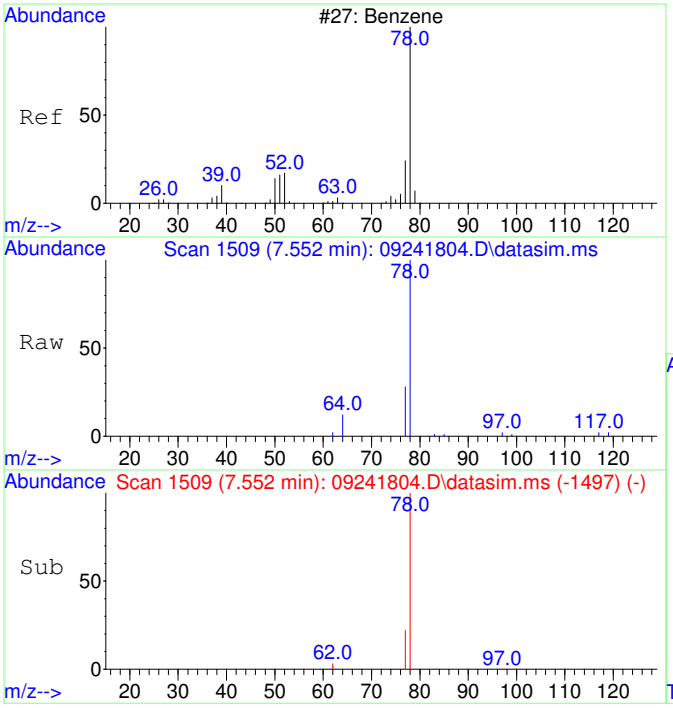


#8
Carbon tetrachloride
Concen: 126.50 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:117 Resp: 913

Ion	Ratio	Lower	Upper
117	100		
119	120.6	65.9	125.9

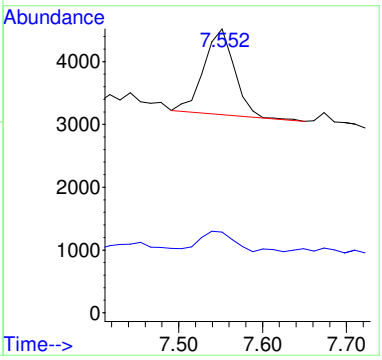


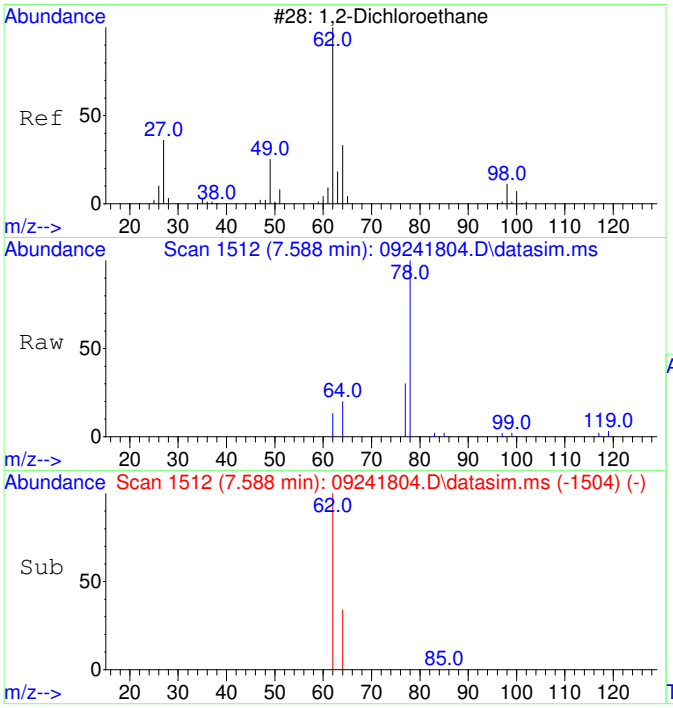


#9
Benzene
Concen: 161.96 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 78 Resp: 3405

Ion	Ratio	Lower	Upper
78	100		
77	27.3	0.0	53.0

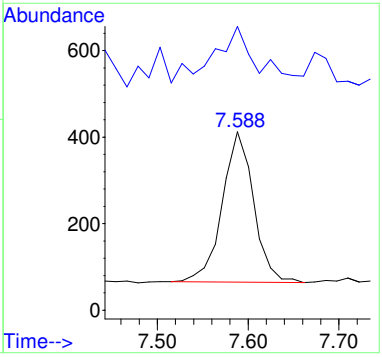


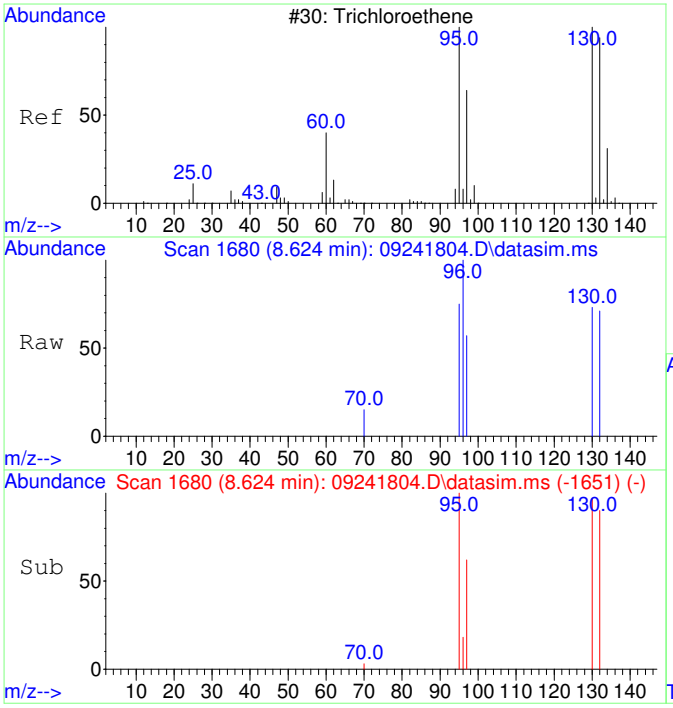


#10
1,2-Dichloroethane
Concen: 122.64 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 62 Resp: 831

Ion	Ratio	Lower	Upper
62	100		
64	31.5	2.3	62.3

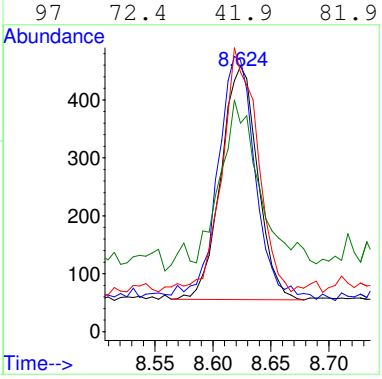


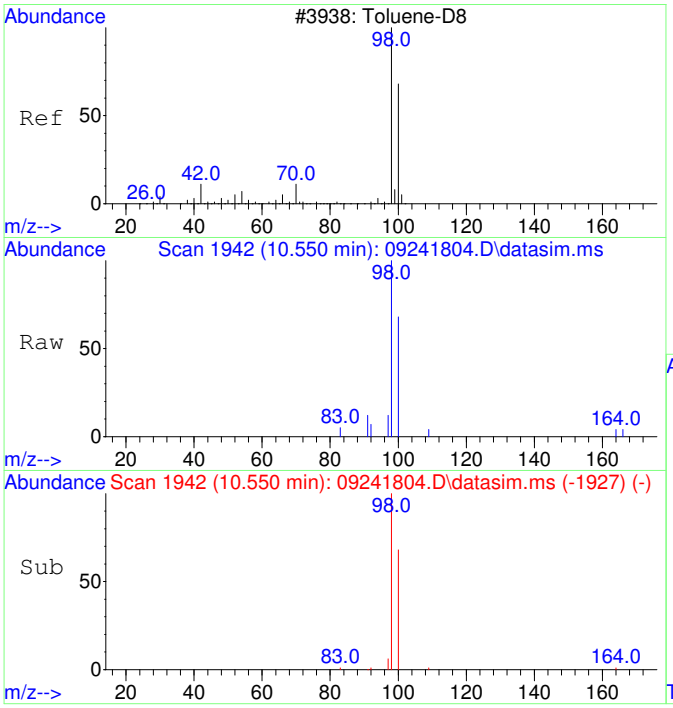


#11
Trichloroethene
Concen: 153.85 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:130 Resp: 889

Ion	Ratio	Lower	Upper
130	100		
95	107.3	66.0	126.0
132	101.5	78.8	118.8
97	72.4	41.9	81.9

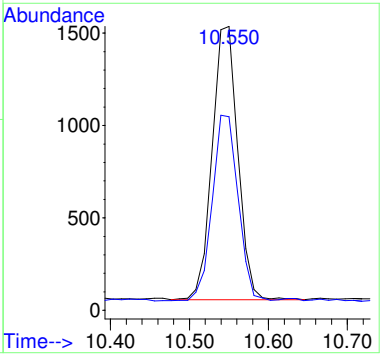


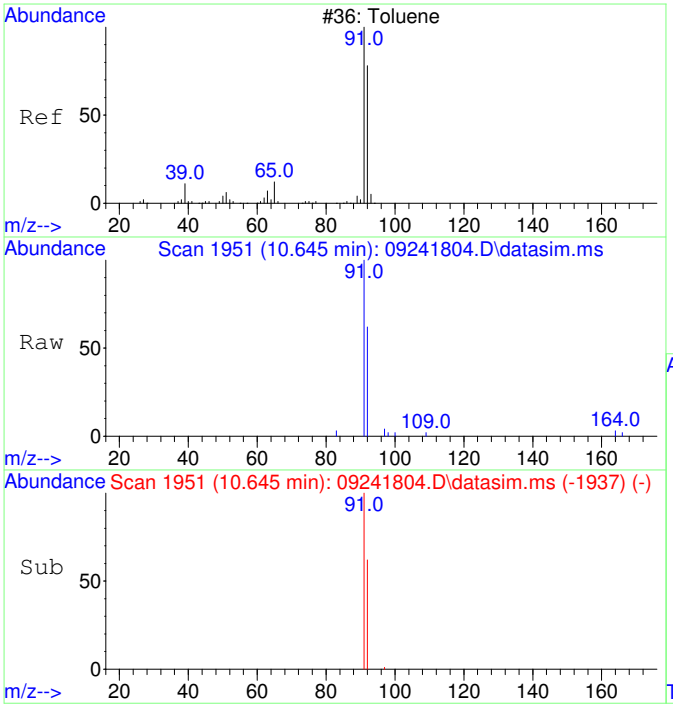


#12
Toluene-d8
Concen: 156.52 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.011 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 98 Resp: 3329

Ion	Ratio	Lower	Upper
98	100		
100	68.0	38.7	98.7

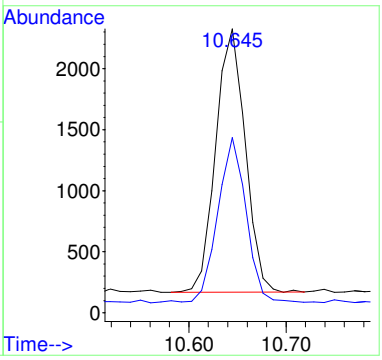


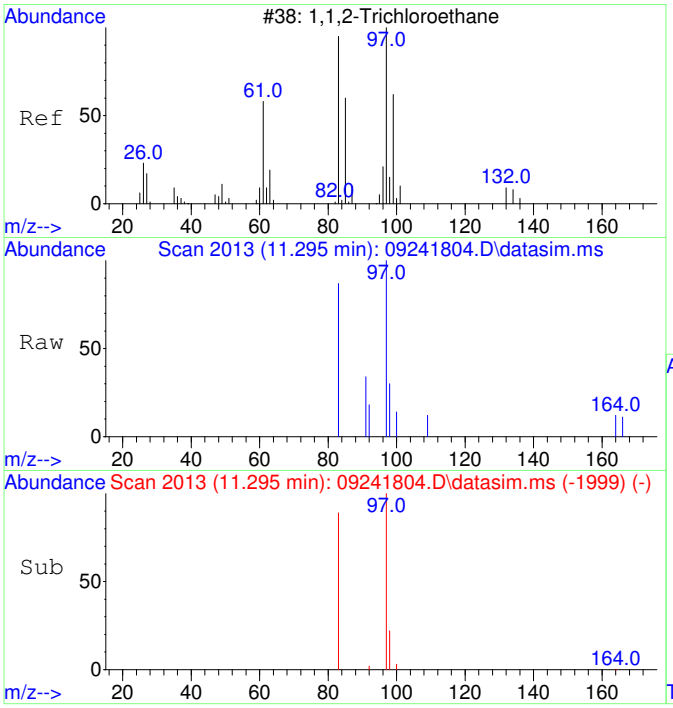


#13
Toluene
Concen: 158.96 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 4533

Ion	Ratio	Lower	Upper
91	100		
92	60.4	30.0	90.0

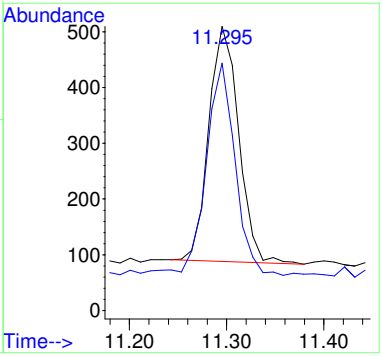


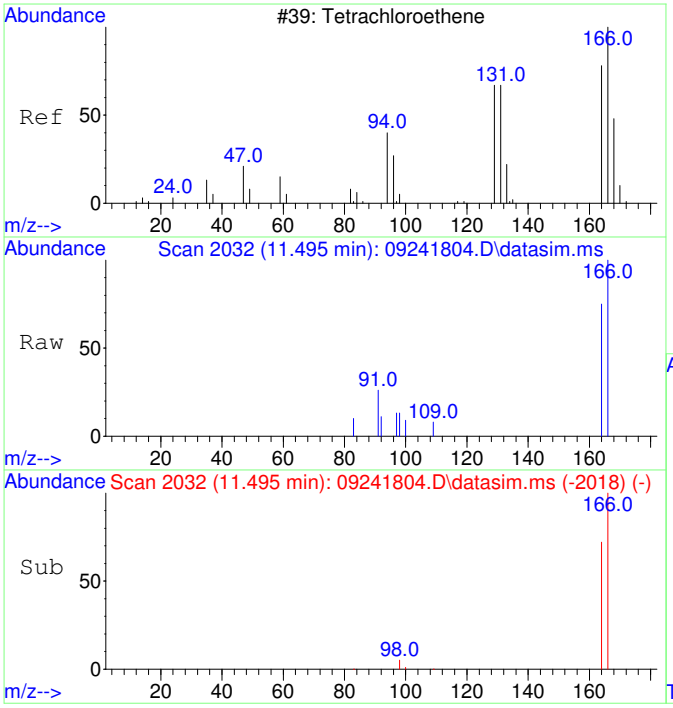


#14
1,1,2-Trichloroethane
Concen: 152.18 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 97 Resp: 897

Ion	Ratio	Lower	Upper
97	100		
83	88.9	53.4	113.4

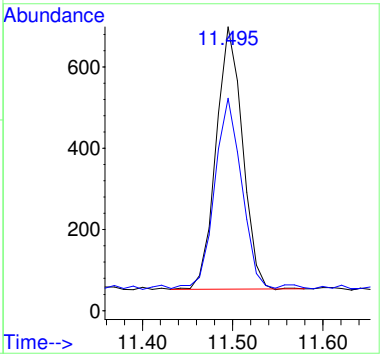


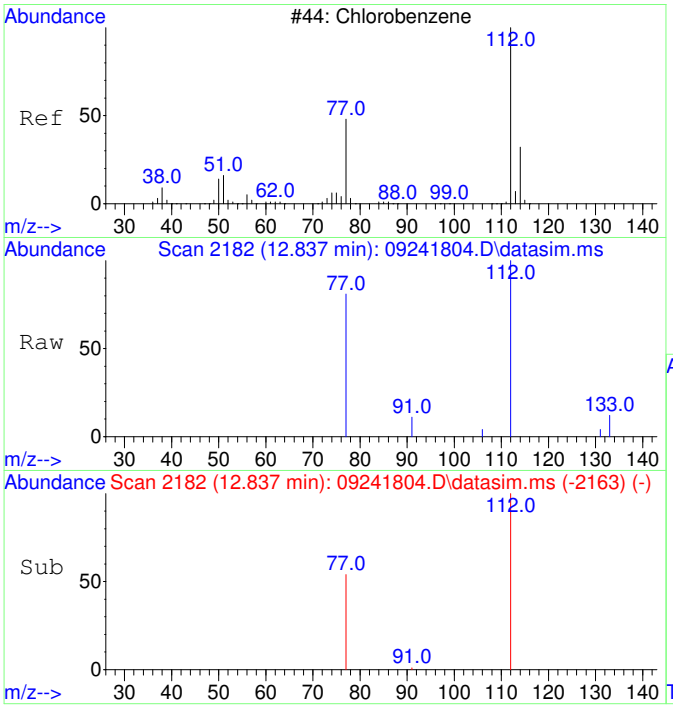


#15
Tetrachloroethene
Concen: 163.79 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:166 Resp: 1316

Ion	Ratio	Lower	Upper
166	100		
164	73.3	47.8	107.8

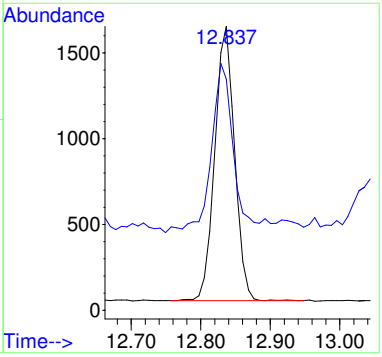


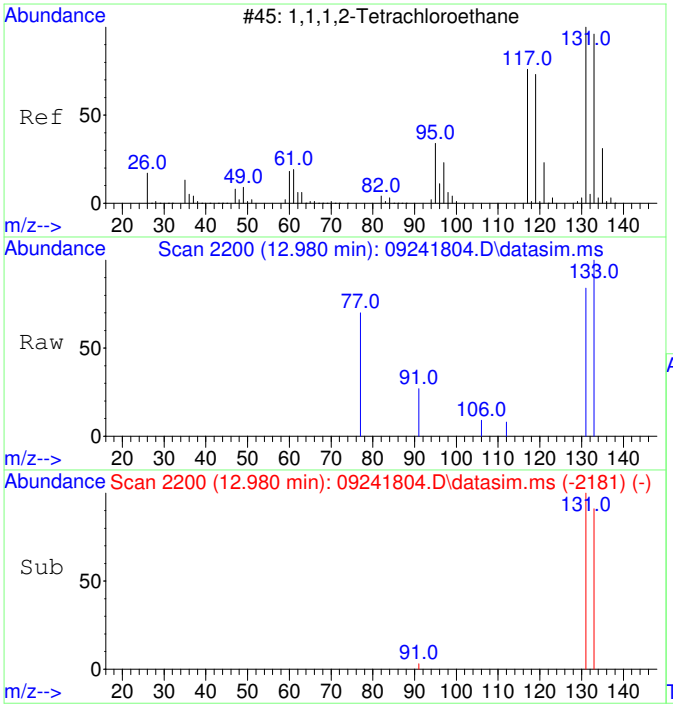


#16
Chlorobenzene
Concen: 154.91 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:112 Resp: 3153

Ion	Ratio	Lower	Upper
112	100		
77	68.5	28.1	88.1

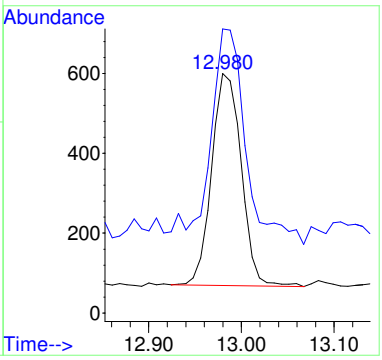


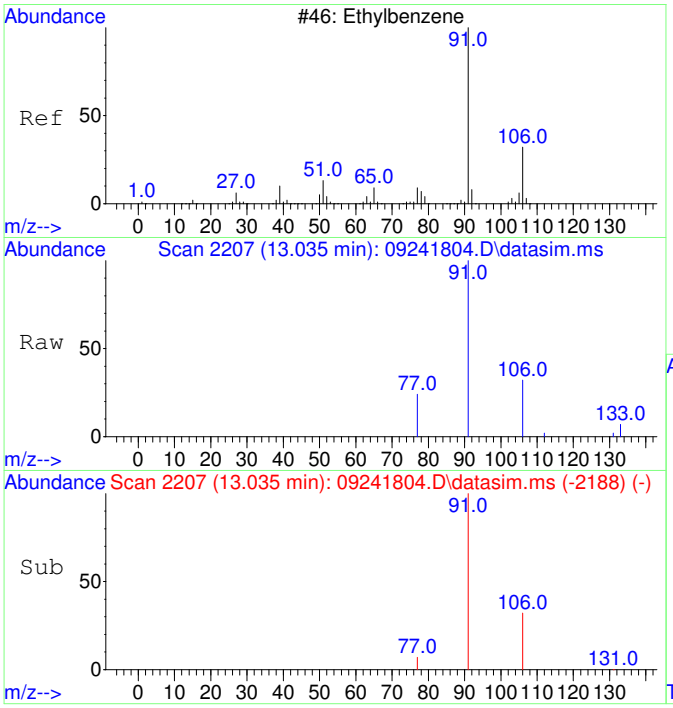


#17
1,1,1,2-Tetrachloroethane
Concen: 170.11 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:131 Resp: 1175

Ion	Ratio	Lower	Upper
131	100		
133	116.9	66.2	126.2

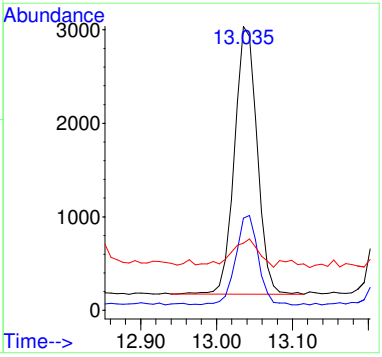


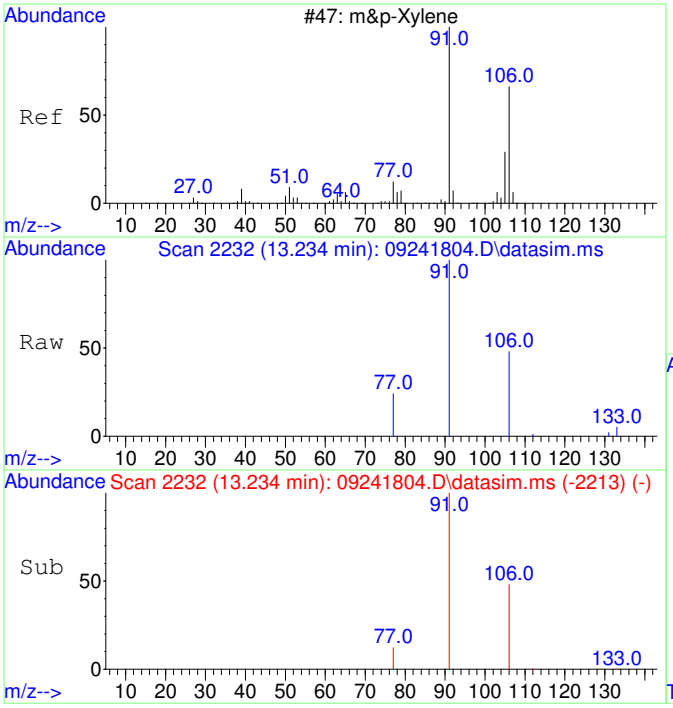


#18
Ethylbenzene
Concen: 173.57 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 5940

Ion	Ratio	Lower	Upper
91	100		
106	33.0	2.8	62.8
77	12.5	0.0	38.6

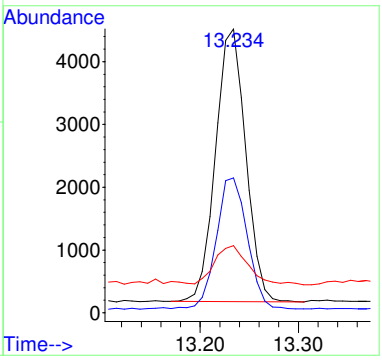


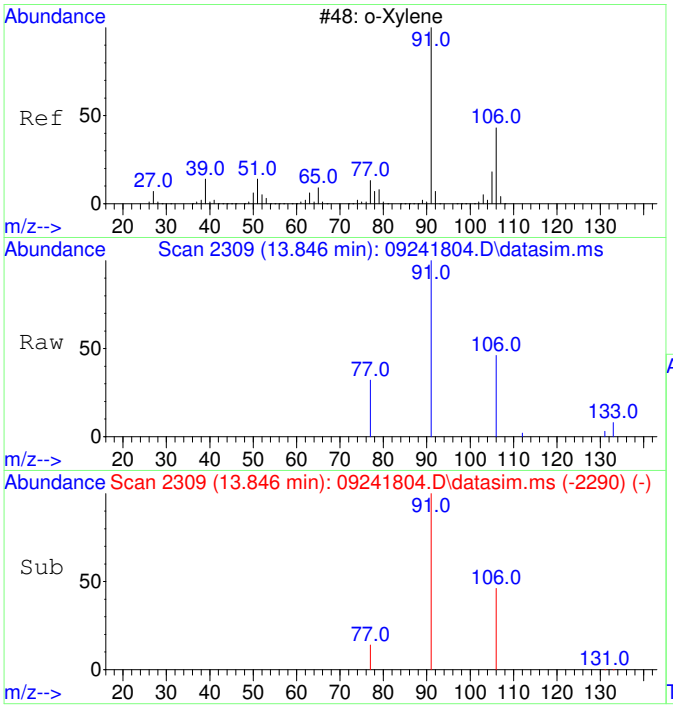


#19
m&p-Xylene
Concen: 349.79 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 9239

Ion	Ratio	Lower	Upper
91	100		
106	49.6	21.2	81.2
77	16.0	0.0	42.9

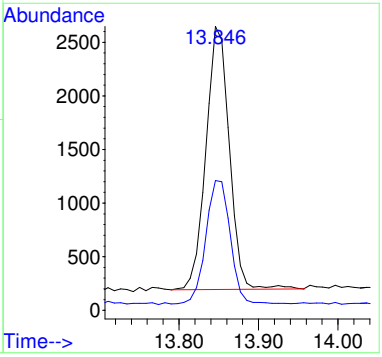


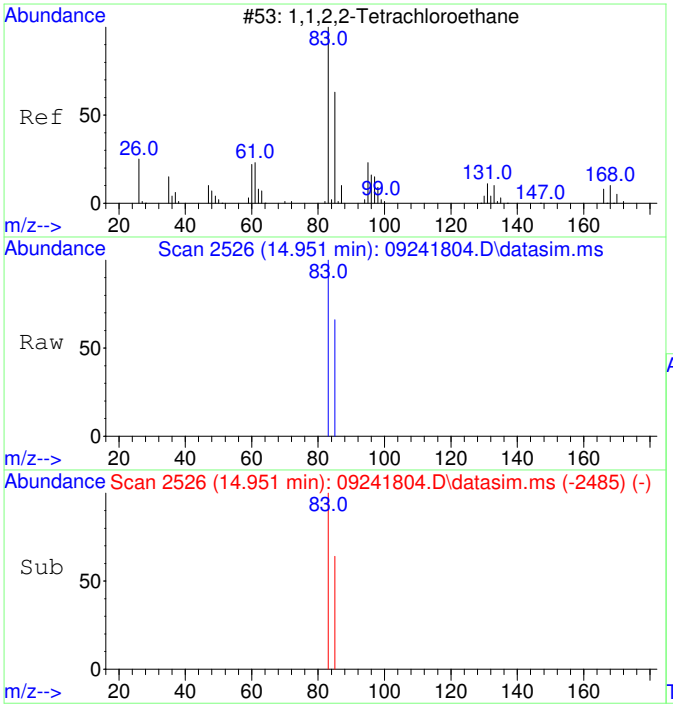


#20
o-Xylene
Concen: 179.24 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 5014

Ion	Ratio	Lower	Upper
91	100		
106	49.4	18.3	78.3

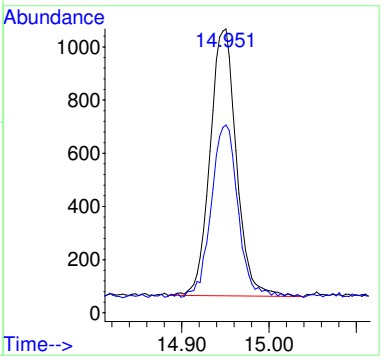


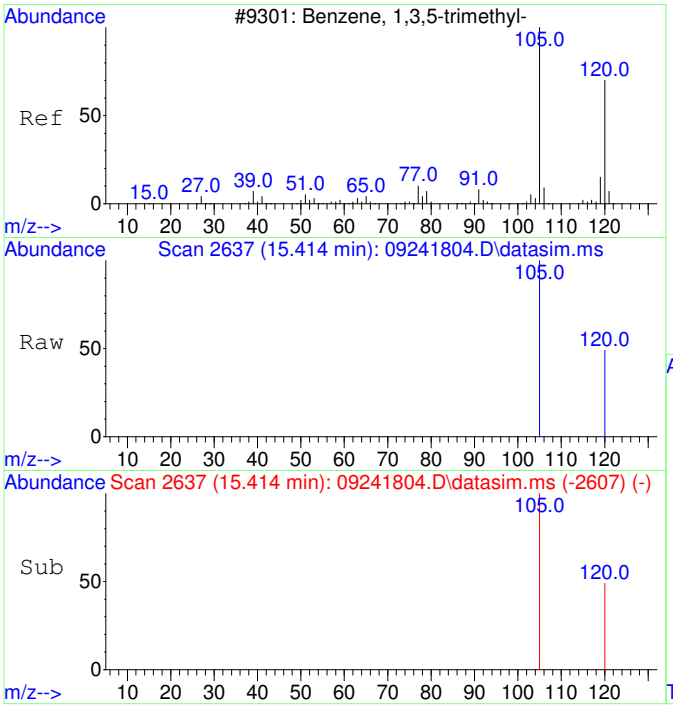


#21
1,1,2,2-Tetrachloroethane
Concen: 174.81 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.004 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 83 Resp: 2106

Ion	Ratio	Lower	Upper
83	100		
85	64.9	34.4	94.4

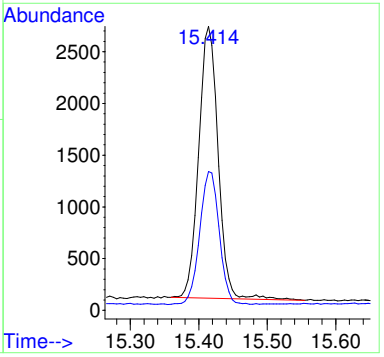


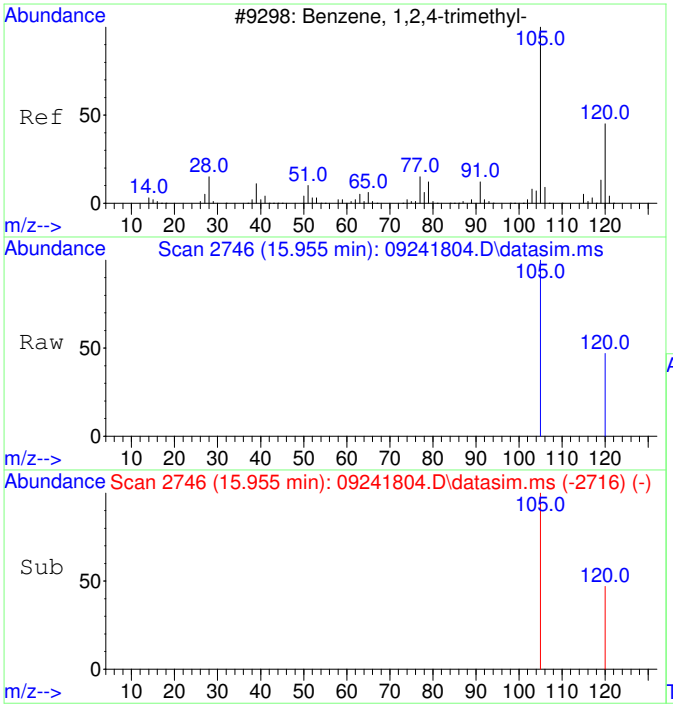


#22
1,3,5-Trimethylbenzene
Concen: 163.44 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:105 Resp: 5173

Ion	Ratio	Lower	Upper
105	100		
120	49.0	19.1	79.1

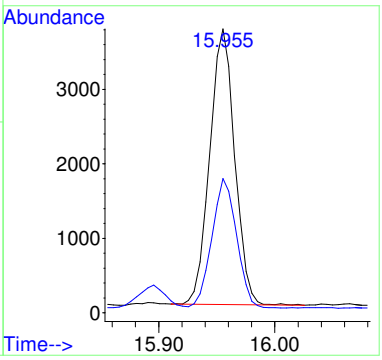


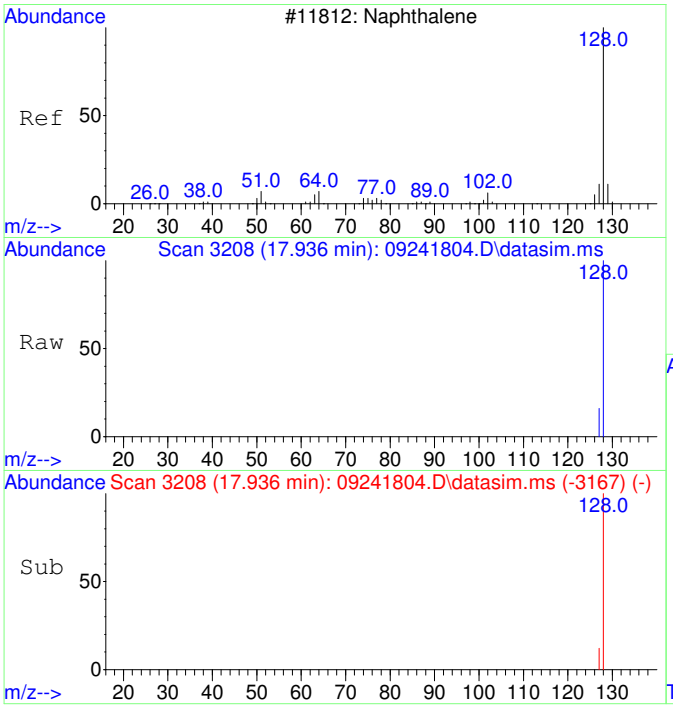


#23
1,2,4-Trimethylbenzene
Concen: 174.67 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:105 Resp: 5530

Ion	Ratio	Lower	Upper
105	100		
120	45.8	15.5	75.5

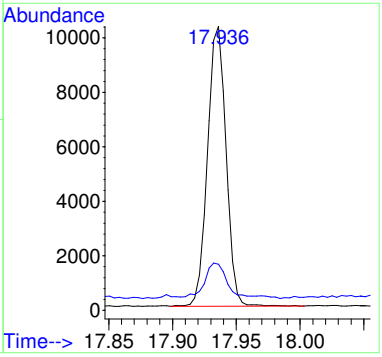


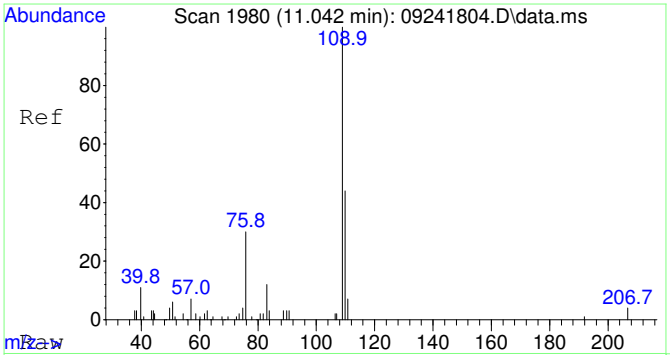


#24
Naphthalene
Concen: 198.80 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:128 Resp: 10329

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	42.5

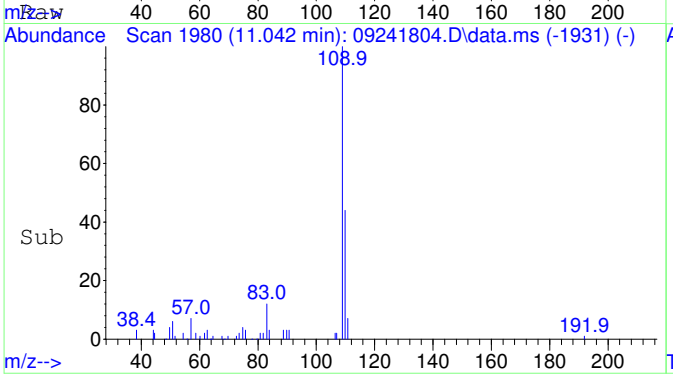


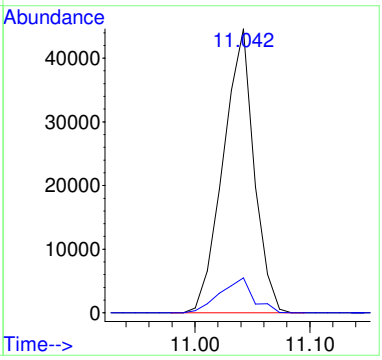


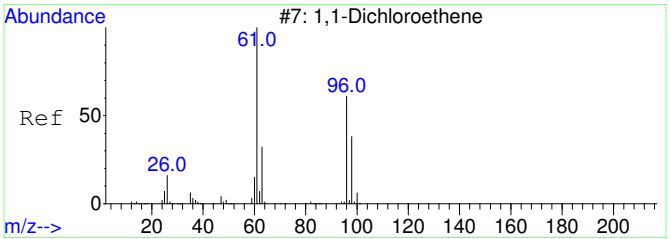
#25
2-Fluorotoluene SCAN
Concen: 5476.34 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.011 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:109 Resp: 83560

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	45.7



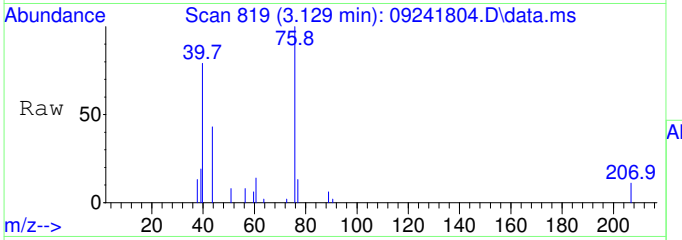


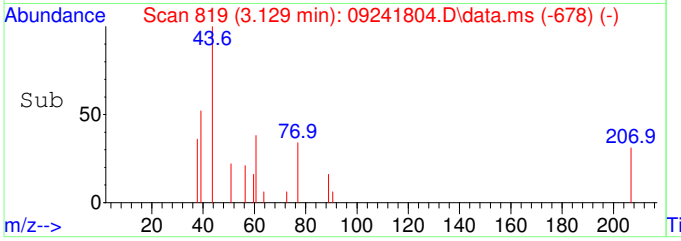


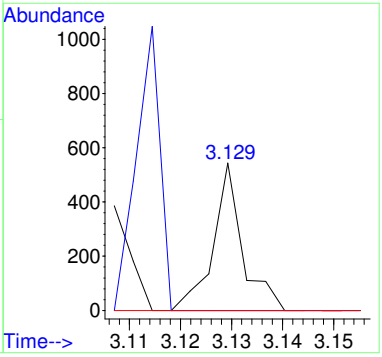
#26
1,1-Dichloroethene SCAN
Concen: 56.73 ug/L
RT: 3.129 min Scan# 819
Delta R.T. 0.022 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

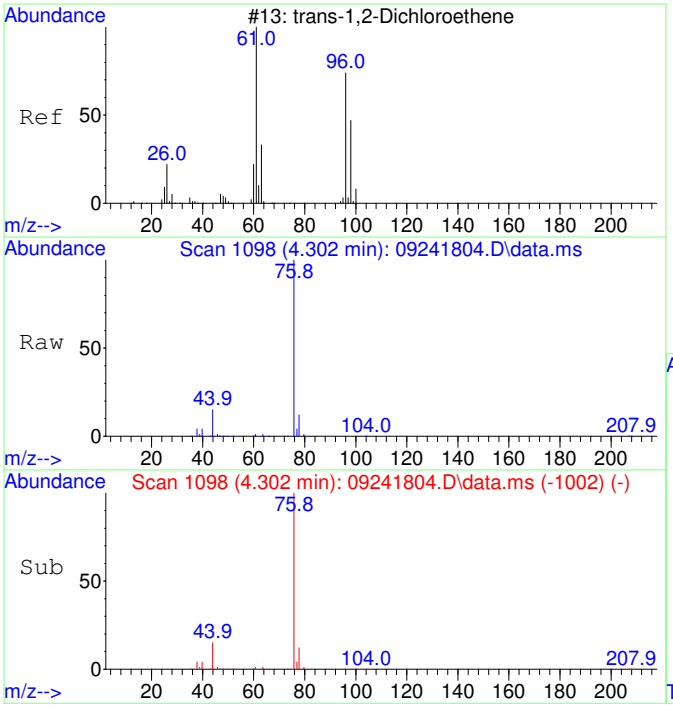
Tgt Ion: 61 Resp: 216

Ion	Ratio	Lower	Upper
61	100		
96	157.4	23.8	83.8#
98	0.0	8.8	68.8#





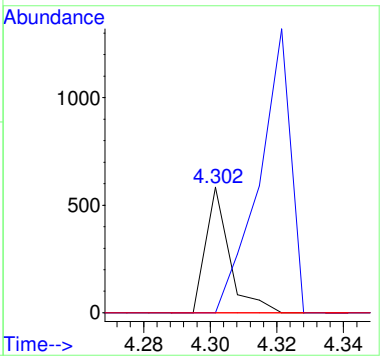


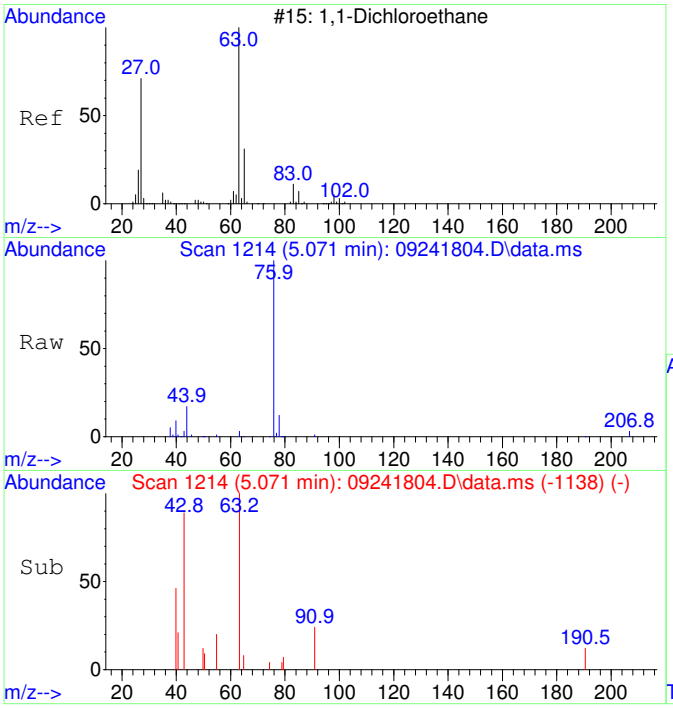


#27
trans-1,2-Dichloroethene SCAN
Concen: 65.20 ug/L
RT: 4.302 min Scan# 1098
Delta R.T. -0.007 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 289

Ion	Ratio	Lower	Upper
61	100		
96	300.7	37.9	97.9#
98	0.0	12.7	72.7#

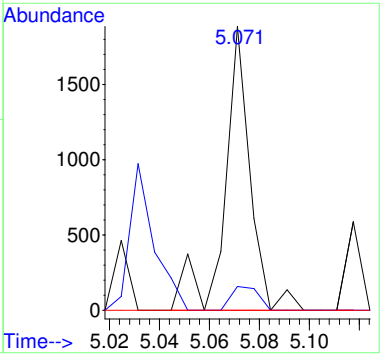


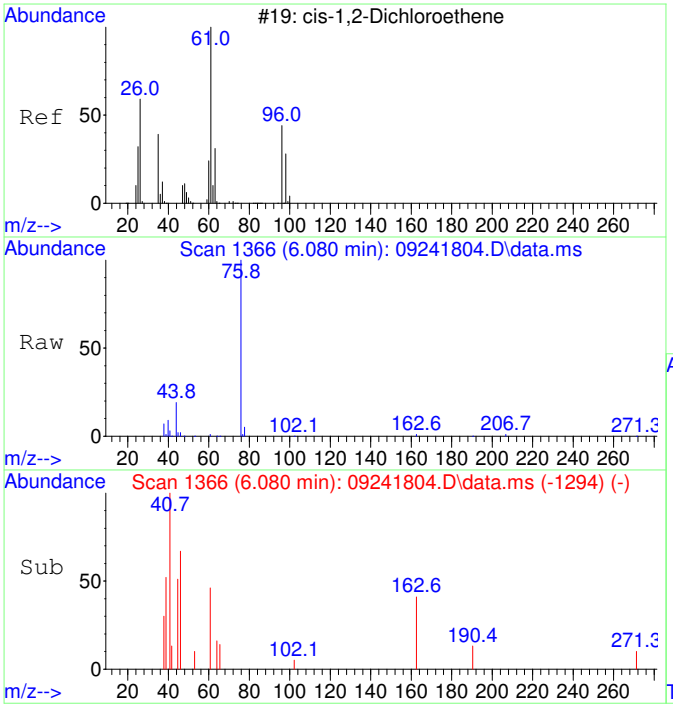


#28
1,1-Dichloroethane SCAN
Concen: 239.40 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 63 Resp: 1350

Ion	Ratio	Lower	Upper
63	100		
65	8.9	7.5	67.5
83	0.0	0.0	34.3

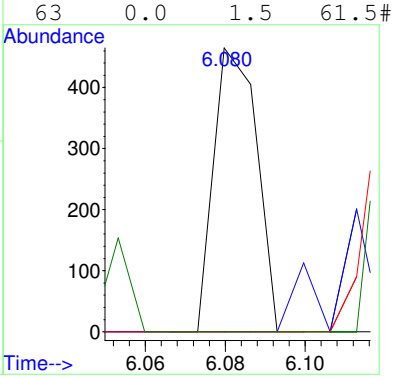


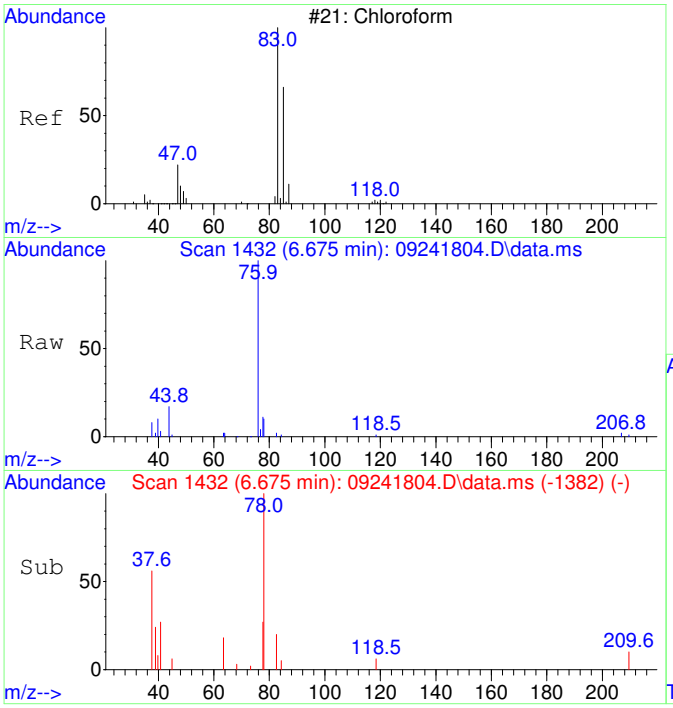


#29
cis-1,2-Dichloroethene SCAN
Concen: 70.95 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. -0.020 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 346

Ion	Ratio	Lower	Upper
61	100		
96	0.0	28.2	88.2#
98	0.0	14.1	74.1#
63	0.0	1.5	61.5#

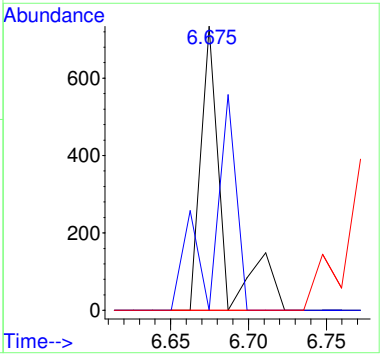


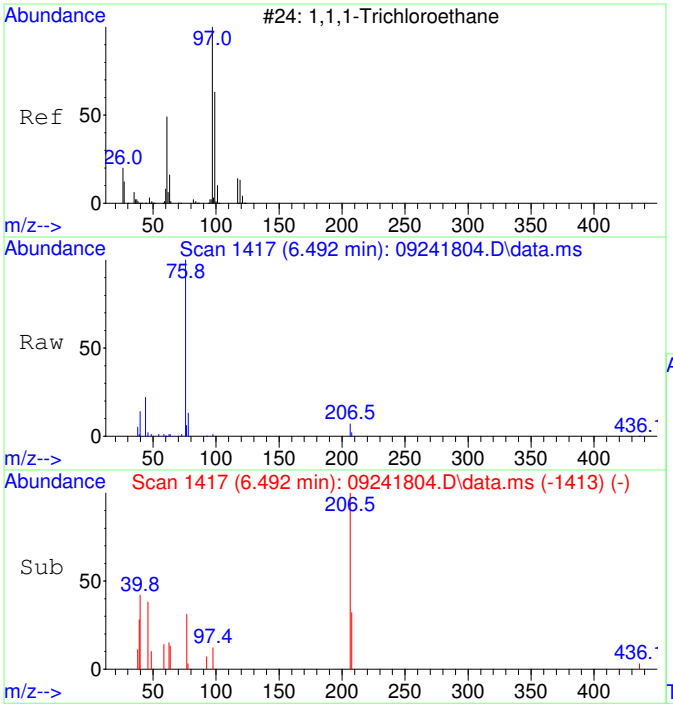


#30
Chloroform SCAN
Concen: 117.94 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.012 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 83 Resp: 706

Ion	Ratio	Lower	Upper
83	100		
85	84.3	32.6	92.6
47	0.0	0.0	57.9

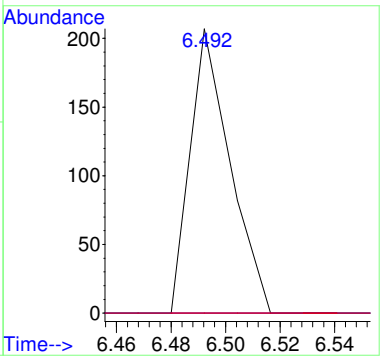


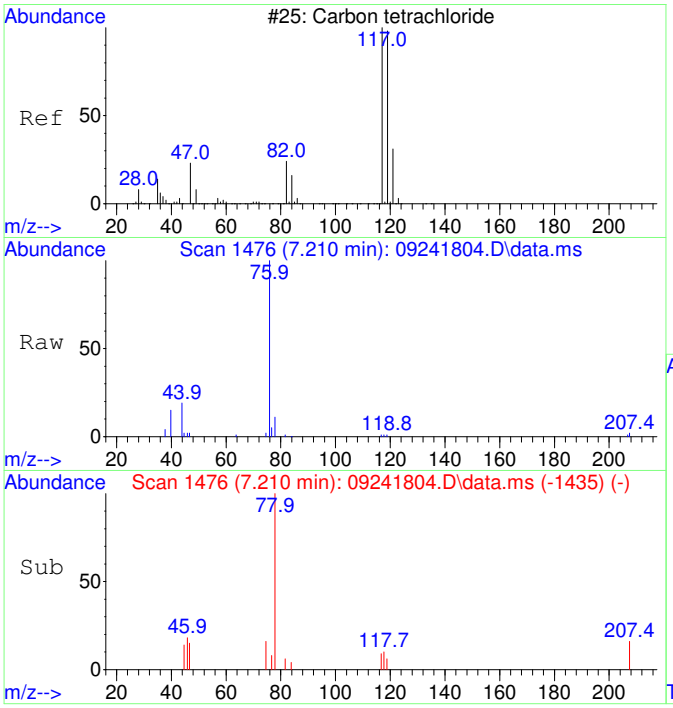


#31
1,1,1-Trichloroethane SCAN
Concen: 39.60 ug/L
RT: 6.492 min Scan# 1417
Delta R.T. -0.450 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 97 Resp: 211

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

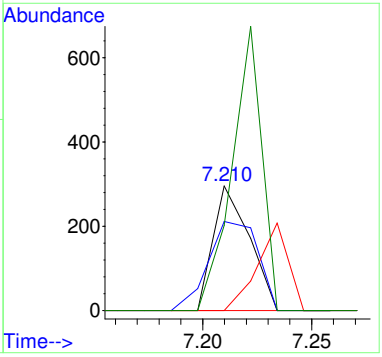


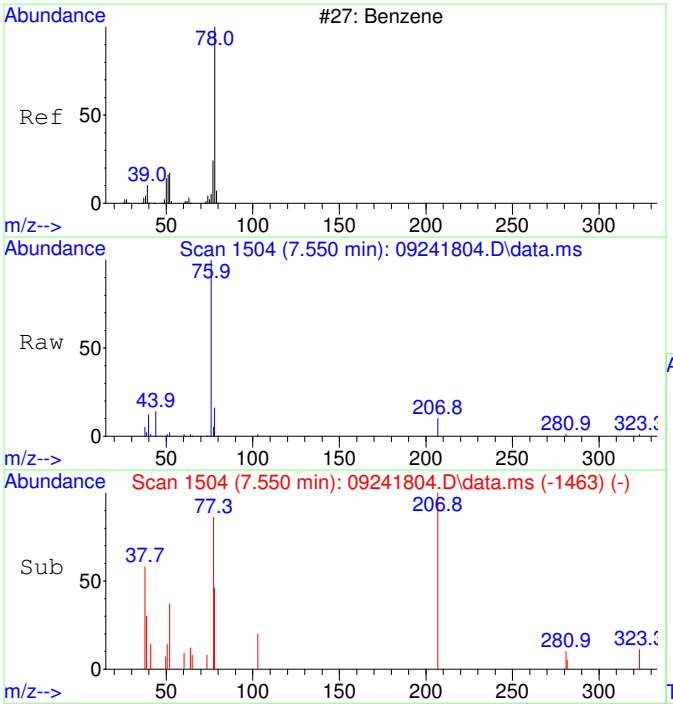


#32
Carbon tetrachloride SCAN
Concen: 64.94 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:117 Resp: 341

Ion	Ratio	Lower	Upper
117	100		
119	98.2	80.2	140.2
121	0.0	3.2	63.2#
82	187.7	7.4	67.4#

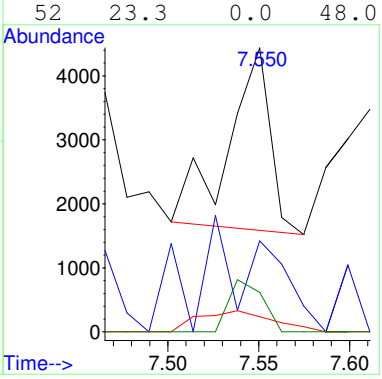


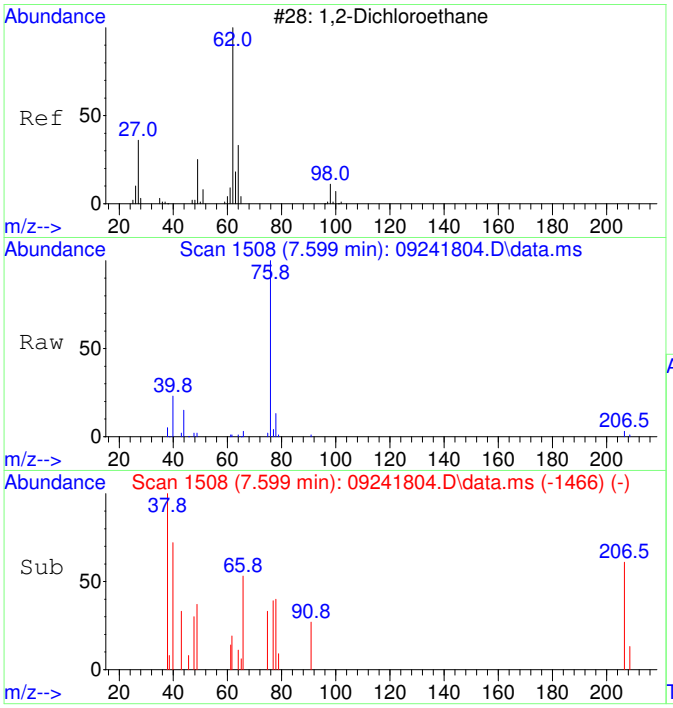


#33
Benzene SCAN
Concen: 282.43 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 78 Resp: 4488

Ion	Ratio	Lower	Upper
78	100		
77	0.0	3.0	63.0#
51	20.9	0.0	56.4
52	23.3	0.0	48.0

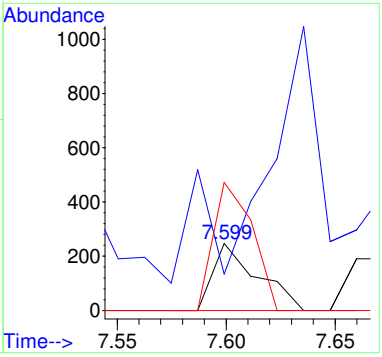


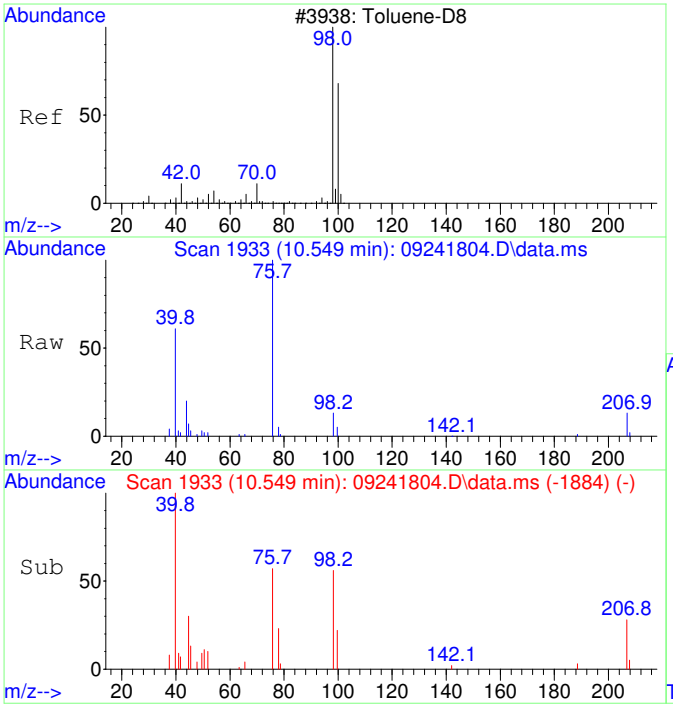


#34
1,2-Dichloroethane SCAN
Concen: 64.58 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 62 Resp: 350

Ion	Ratio	Lower	Upper
62	100		
64	87.1	1.2	61.2#
49	168.3	10.4	70.4#

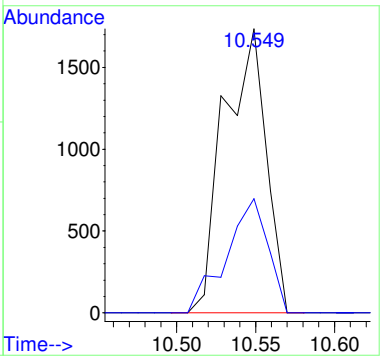


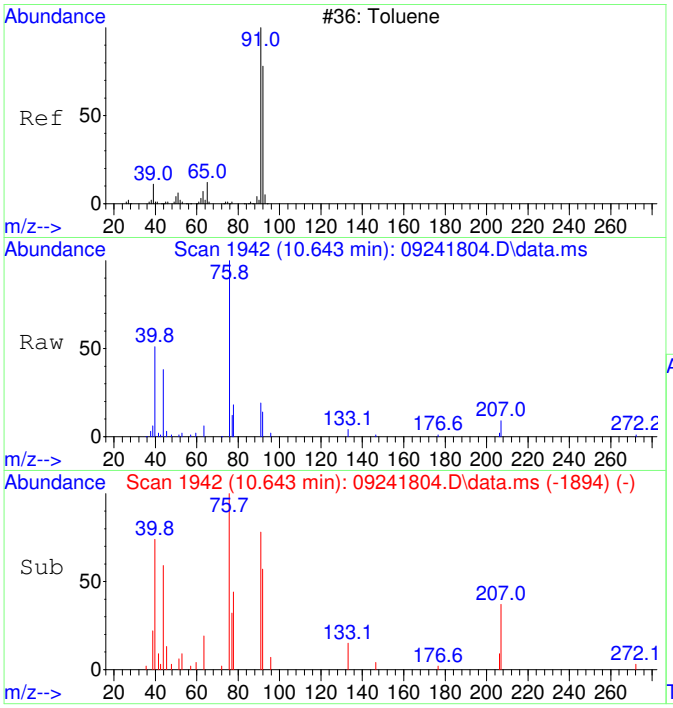


#36
Toluene-d8 SCAN
Concen: 233.73 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 98 Resp: 3224

Ion	Ratio	Lower	Upper
98	100		
100	39.8	39.5	99.5

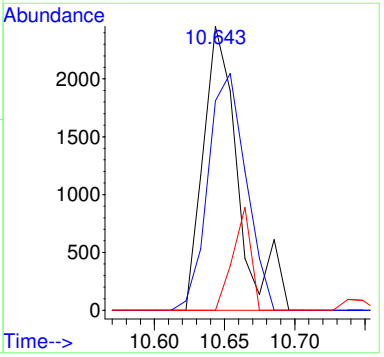


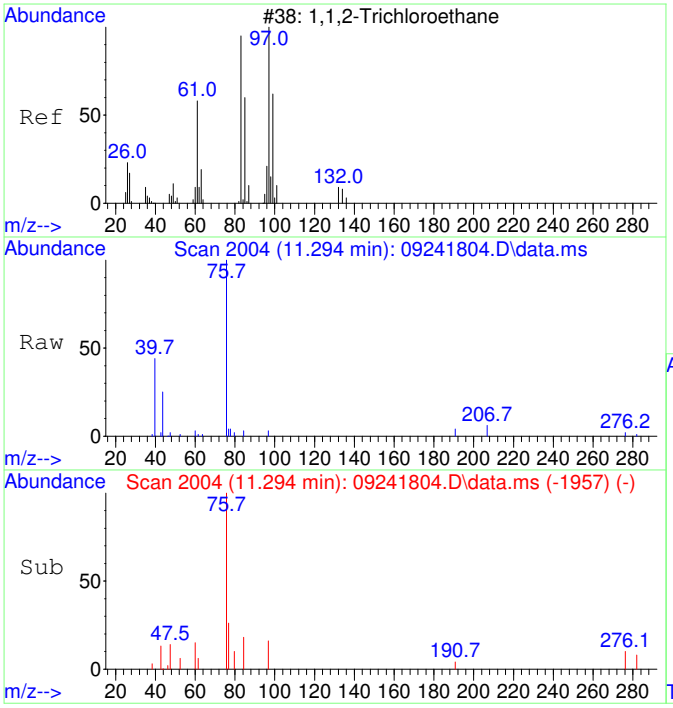


#37
Toluene SCAN
Concen: 239.84 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 4226

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.6	86.6#
65	0.0	0.0	42.3

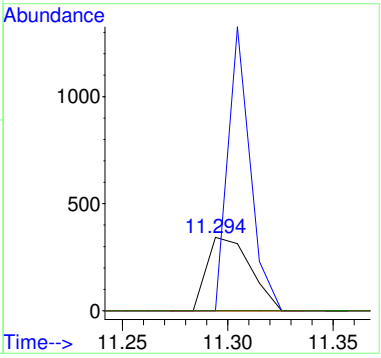


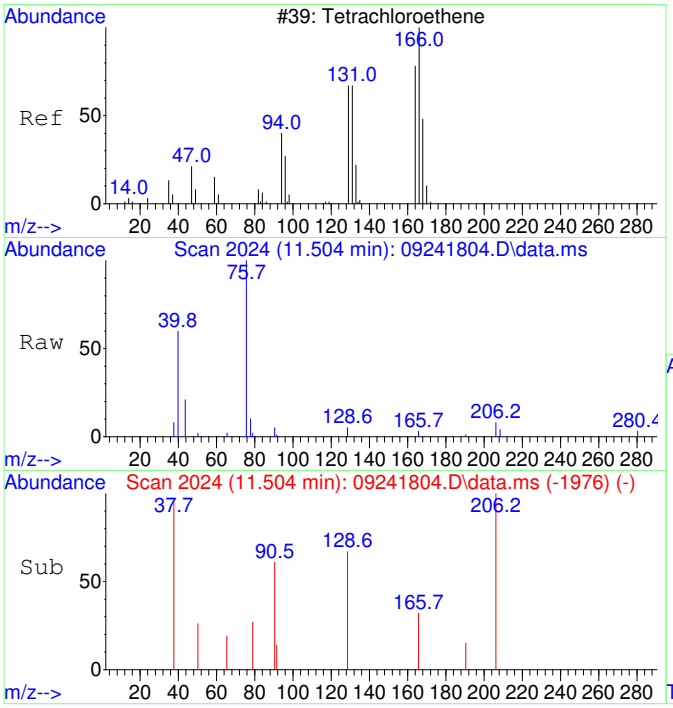


#38
1,1,2-Trichloroethane SCAN
Concen: 146.31 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 97 Resp: 494

Ion	Ratio	Lower	Upper
97	100		
83	198.4	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

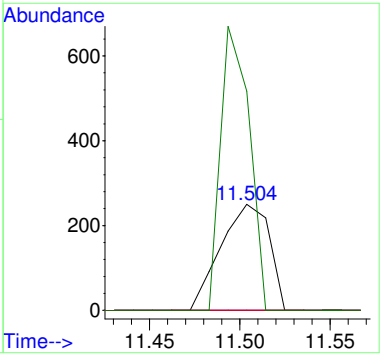


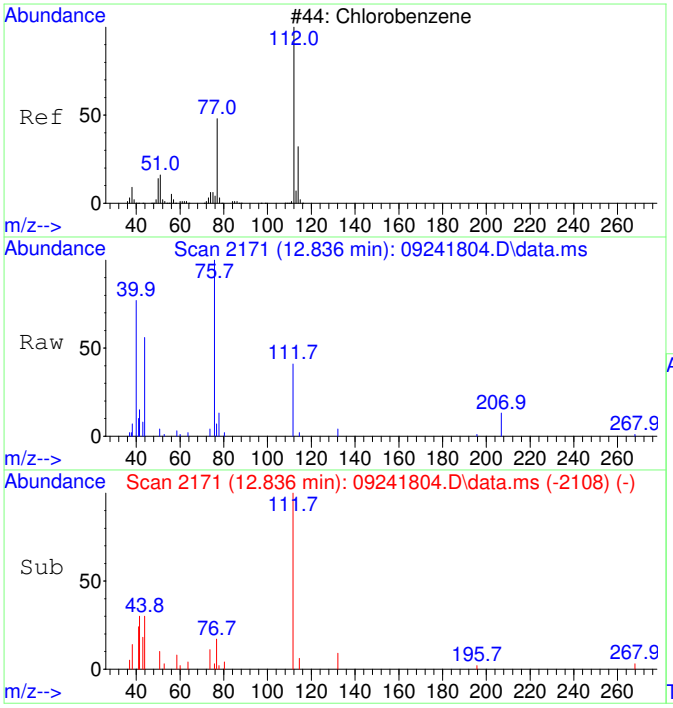


#39
Tetrachloroethene SCAN
Concen: 121.56 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:166 Resp: 470

Ion	Ratio	Lower	Upper
166	100		
164	0.0	43.3	103.3#
131	0.0	35.6	95.6#
129	159.1	36.6	96.6#

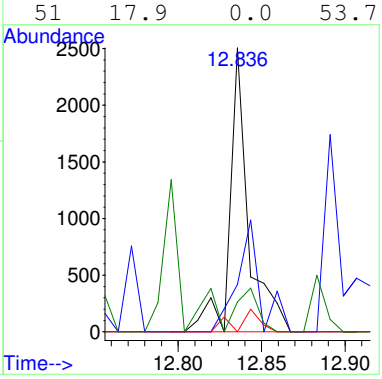


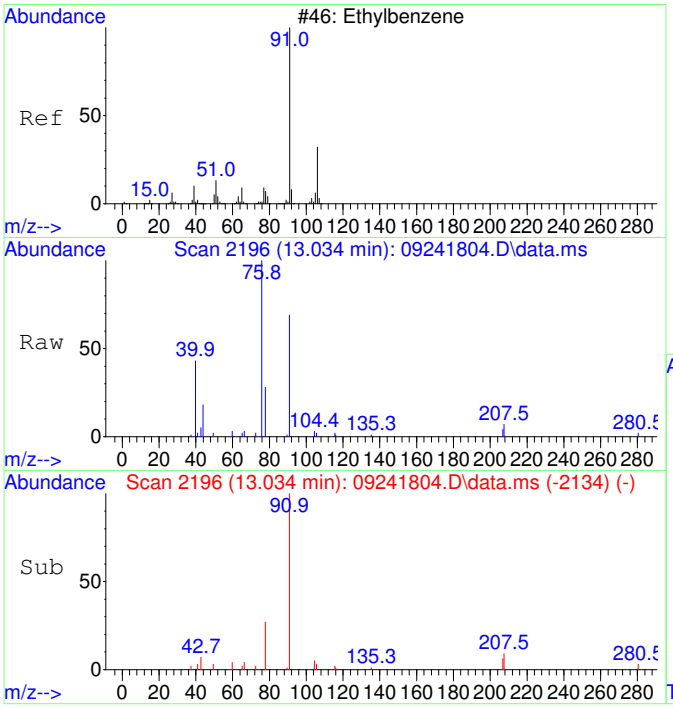


#40
Chlorobenzene SCAN
Concen: 181.69 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:112 Resp: 1942

Ion	Ratio	Lower	Upper
112	100		
77	48.2	28.4	88.4
114	9.6	0.0	59.5
51	17.9	0.0	53.7

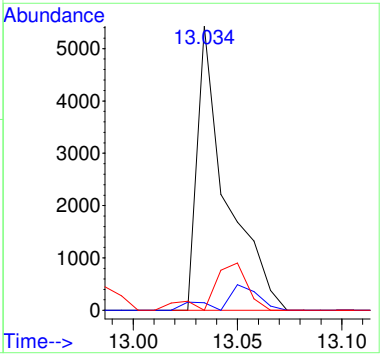


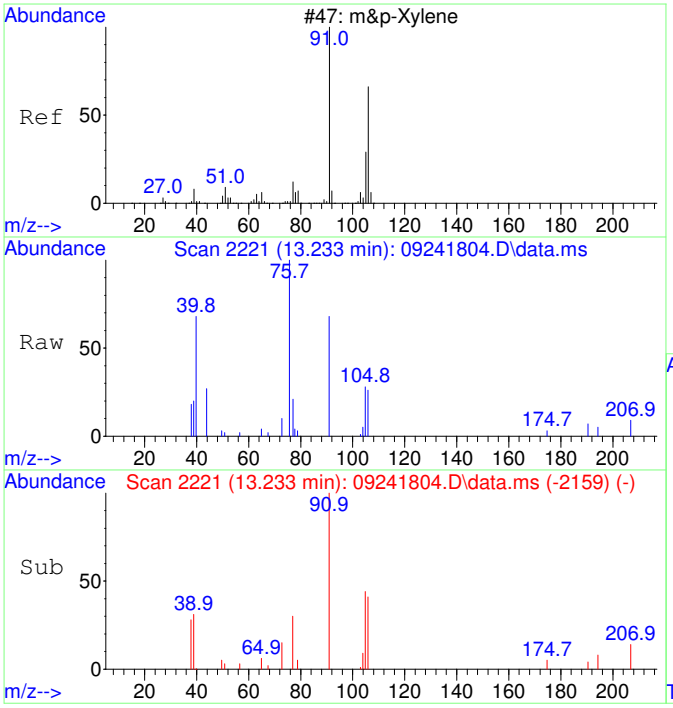


#42
Ethylbenzene SCAN
Concen: 256.68 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.008 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 5257

Ion	Ratio	Lower	Upper
91	100		
106	11.1	3.2	63.2
51	19.9	0.0	40.1

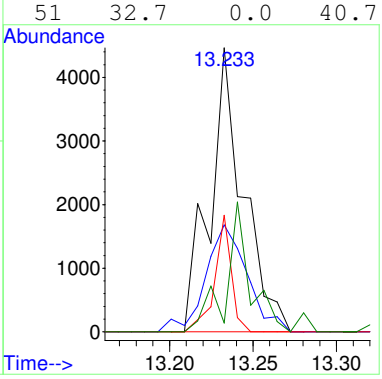


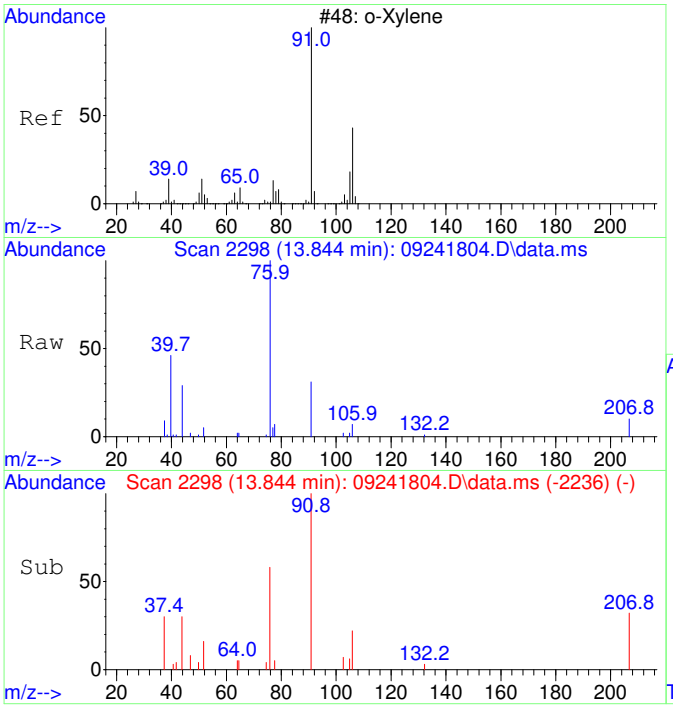


#43
m&p-Xylene SCAN
Concen: 220.23 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 6261

Ion	Ratio	Lower	Upper
91	100		
106	46.6	20.1	80.1
105	20.1	0.0	51.1
51	32.7	0.0	40.7

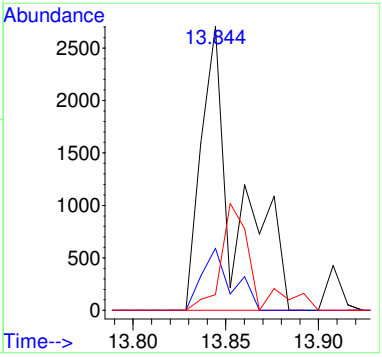


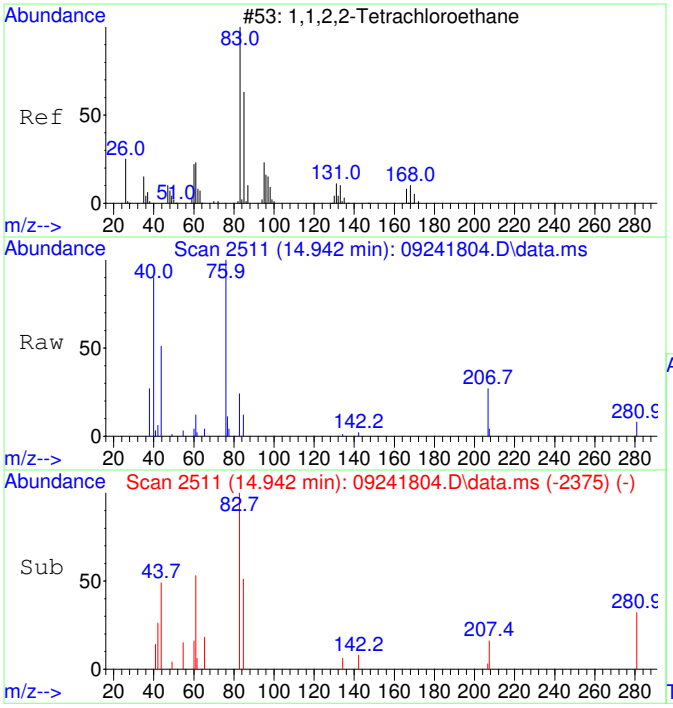


#44
o-Xylene SCAN
Concen: 221.56 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 3585

Ion	Ratio	Lower	Upper
91	100		
106	18.5	21.3	81.3#
105	33.5	0.0	55.2

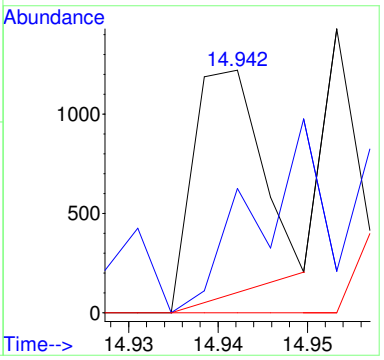


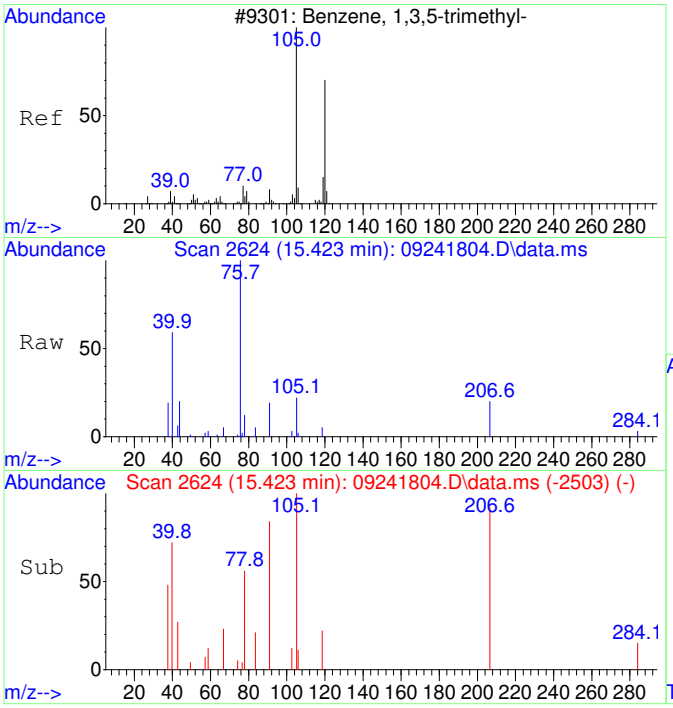


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 80.85 ug/L
RT: 14.942 min Scan# 2511
Delta R.T. 0.004 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 83 Resp: 620

Ion	Ratio	Lower	Upper
83	100		
85	30.0	31.6	91.6#
95	0.0	0.0	49.0

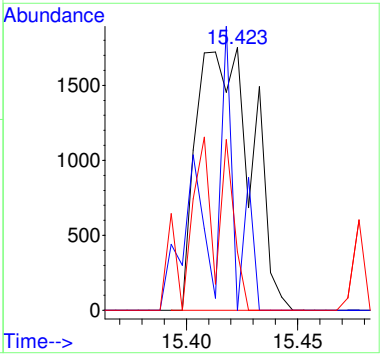


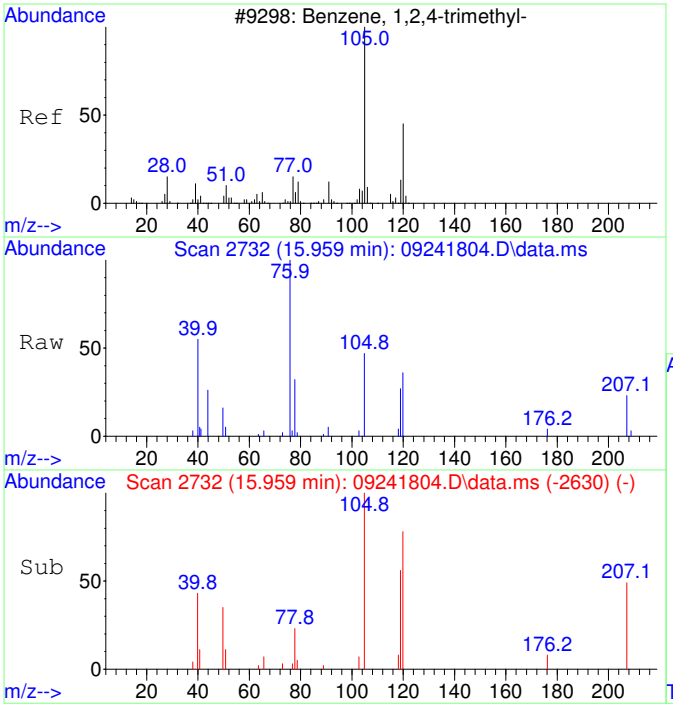


#46
1,3,5-Trimethylbenzene SCAN
Concen: 189.92 ug/L
RT: 15.423 min Scan# 2624
Delta R.T. 0.010 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:105 Resp: 3047

Ion	Ratio	Lower	Upper
105	100		
120	17.7	16.8	76.8
119	0.0	0.0	41.5

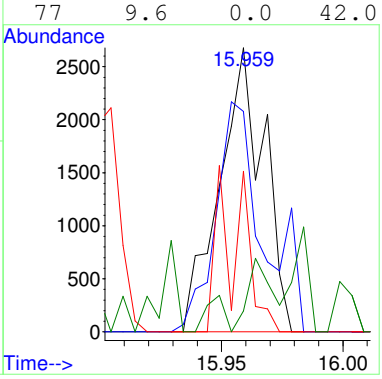


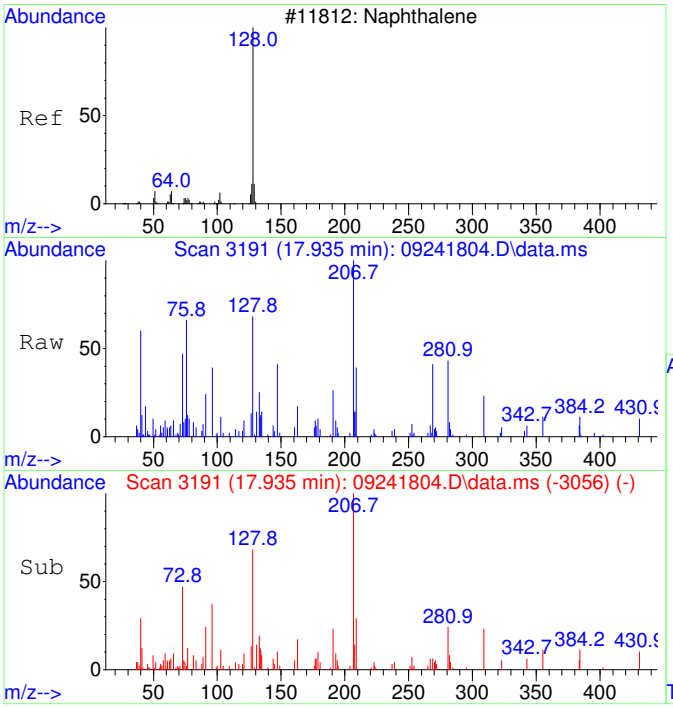


#47
1,2,4-Trimethylbenzene SCAN
Concen: 207.88 ug/L
RT: 15.959 min Scan# 2732
Delta R.T. 0.005 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:105 Resp: 3418

Ion	Ratio	Lower	Upper
105	100		
120	85.5	15.4	75.4#
119	0.0	0.0	41.7
77	9.6	0.0	42.0

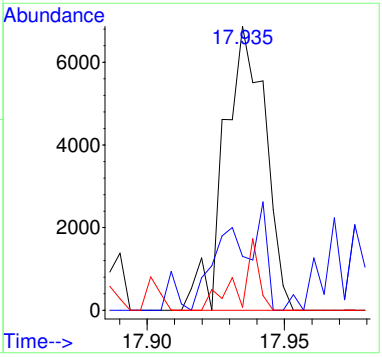




#48
Naphthalene SCAN
Concen: 303.55 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:128 Resp: 7121

Ion	Ratio	Lower	Upper
128	100		
127	33.8	0.0	43.9
129	11.8	0.0	40.5



S18I078-CRL2

QLS REPORT

Instrument Name: AG5975C
Sample Name: S18I078-CRL2
Misc Info: 1823103 0.05 mg/L
Date Acquired: 9/24/18 13:50
QLast Update: Thu Jun 28 07:20:56 2018
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	11.033	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.104	50.0	54.91	110%	60	140	pass
3)	trans-1,2-Dichloroethene	4.303	50.0	43.65	87%	60	140	pass
4)	1,1-Dichloroethane	5.066	50.0	57.48	115%	60	140	pass
5)	cis-1,2-Dichloroethene	6.101	50.0	49.40	99%	60	140	pass
6)	Chloroform	6.676	50.0	53.90	108%	60	140	pass
7)	1,1,1-Trichloroethane	6.931	50.0	52.72	105%	60	140	pass
8)	Carbon tetrachloride	7.211	50.0	50.91	102%	60	140	pass
10)	1,2-Dichloroethane	7.588	50.0	48.56	97%	60	140	pass
11)	Trichloroethene	8.618	50.0	50.45	101%	60	140	pass
12)	Toluene-d8	10.540	50.0	53.36	107%	60	140	pass
13)	Toluene	10.645	50.0	61.70	123%	60	140	pass
14)	1,1,2-Trichloroethane	11.295	50.0	55.69	111%	60	140	pass
15)	Tetrachloroethene	11.495	50.0	54.47	109%	60	140	pass
16)	Chlorobenzene	12.837	50.0	54.96	110%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.980	50.0	54.97	110%	60	140	pass
18)	Ethylbenzene	13.035	50.0	55.31	111%	60	140	pass
19)	m&p-Xylene	13.234	100.0	109.37	109%	60	140	pass
20)	o-Xylene	13.846	50.0	54.06	108%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.947	50.0	57.81	116%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.414	50.0	53.55	107%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.955	50.0	55.09	110%	60	140	pass
24)	Naphthalene	17.932	50.0	57.66	115%	60	140	pass

Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 13:50
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

M.I. Performed By:
RH at 3:02 pm, Sep 26, 2018

M.I. Approved By:
Kathy O'Brien at 10:40 am, Se

Quant Time: Sep 24 16:29:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

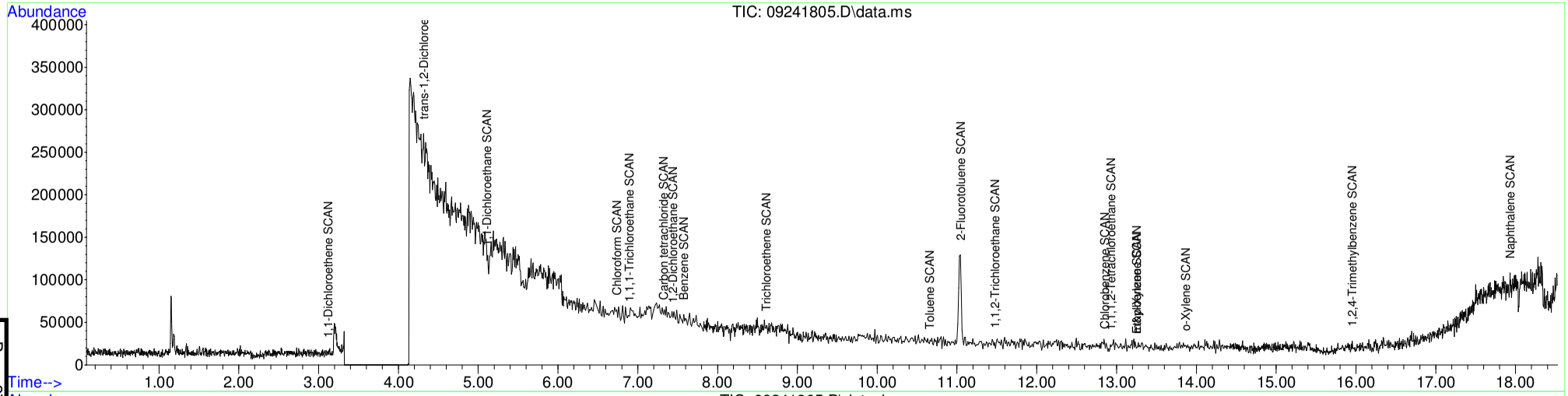
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	160370	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	1390	53.36	ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.07%#		
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.105	61	369m	54.91	ug/L	
3] trans-1,2-Dichloroethene	4.309	61	313	43.65	ug/L	98
4] 1,1-Dichloroethane	5.072	63	513	57.48	ug/L	71
5] cis-1,2-Dichloroethene	6.101	61	435	49.40	ug/L	82
6] Chloroform	6.676	83	511	53.90	ug/L	90
7] 1,1,1-Trichloroethane	6.931	97	492	52.72	ug/L #	26
8] Carbon tetrachloride	7.211	117	450	50.91	ug/L	71
9] Benzene	7.552	78	2109	81.91	ug/L	85
10] 1,2-Dichloroethane	7.588	62	403	48.56	ug/L	78
11] Trichloroethene	8.624	130	357	50.45	ug/L #	81
13] Toluene	10.645	91	2155	61.70	ug/L	95
14] 1,1,2-Trichloroethane	11.295	97	402	55.69	ug/L	85
15] Tetrachloroethene	11.495	166	536	54.47	ug/L	98
16] Chlorobenzene	12.837	112	1370	54.96	ug/L	86
17] 1,1,1,2-Tetrachloroethane	12.980	131	465	54.97	ug/L #	50
18] Ethylbenzene	13.043	91	2318	55.31	ug/L	92
19] m&p-Xylene	13.234	91	3538	109.37	ug/L	94
20] o-Xylene	13.846	91	1852	54.06	ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.951	83	853	57.81	ug/L	99
22] 1,3,5-Trimethylbenzene	15.414	105	2076	53.55	ug/L	99
23] 1,2,4-Trimethylbenzene	15.955	105	2136	55.09	ug/L	99
24] Naphthalene	17.936	128	3669	57.66	ug/L	94
25) 2-Fluorotoluene SCAN	11.042	109	89200	4773.27	ug/L	99
26) 1,1-Dichloroethene SCAN	3.114	61	202	43.32	ug/L #	44
27) trans-1,2-Dichloroethe...	4.315	61	131	24.13	ug/L #	23
28) 1,1-Dichloroethane SCAN	5.111	63	529	76.60	ug/L #	43
30) Chloroform SCAN	6.735	83	270	36.83	ug/L #	28
31) 1,1,1-Trichloroethane ...	6.894	97	208	31.87	ug/L #	26
32) Carbon tetrachloride SCAN	7.319	117	261	40.59	ug/L #	13
33) Benzene SCAN	7.575	78	6419	329.82	ug/L #	45
34) 1,2-Dichloroethane SCAN	7.441	62	276	41.58	ug/L #	1
35) Trichloroethene SCAN	8.612	130	229	48.08	ug/L #	24
37) Toluene SCAN	10.654	91	2115	98.01	ug/L #	92
38) 1,1,2-Trichloroethane ...	11.472	97	118	28.54	ug/L #	10
40) Chlorobenzene SCAN	12.851	112	1056	80.67	ug/L #	42
41) 1,1,1,2-Tetrachloroeth...	12.923	131	246	52.65	ug/L #	13
42) Ethylbenzene SCAN	13.249	91	2086	83.16	ug/L	53
43) m&p-Xylene SCAN	13.249	91	2086	59.91	ug/L	86
44) o-Xylene SCAN	13.860	91	1575	79.48	ug/L #	45
47) 1,2,4-Trimethylbenzene...	15.954	105	952	47.28	ug/L #	35
48) Naphthalene SCAN	17.931	128	3215	111.90	ug/L #	67

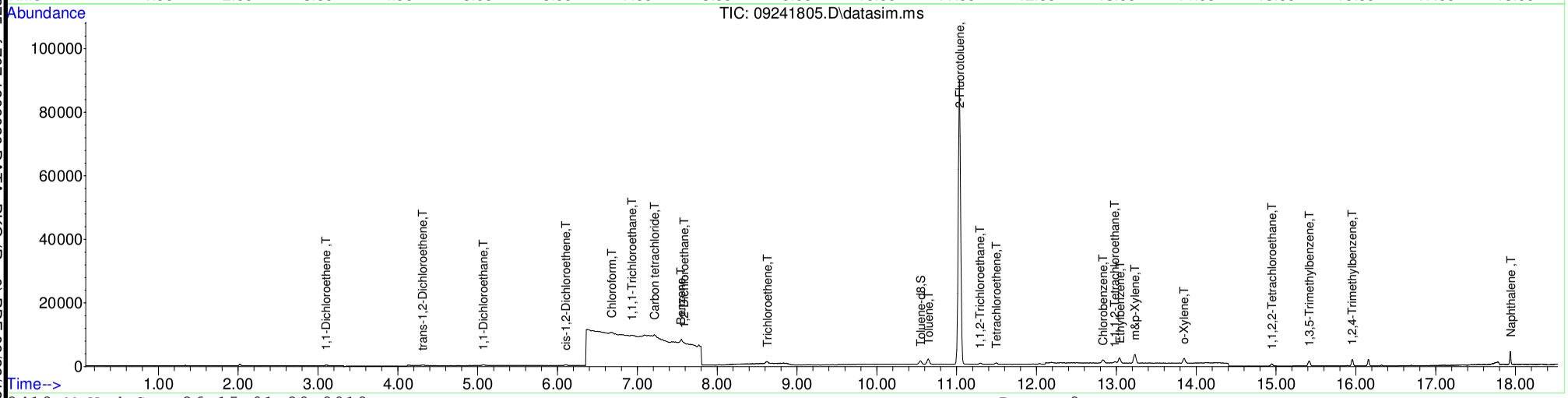
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 13:50
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 16:29:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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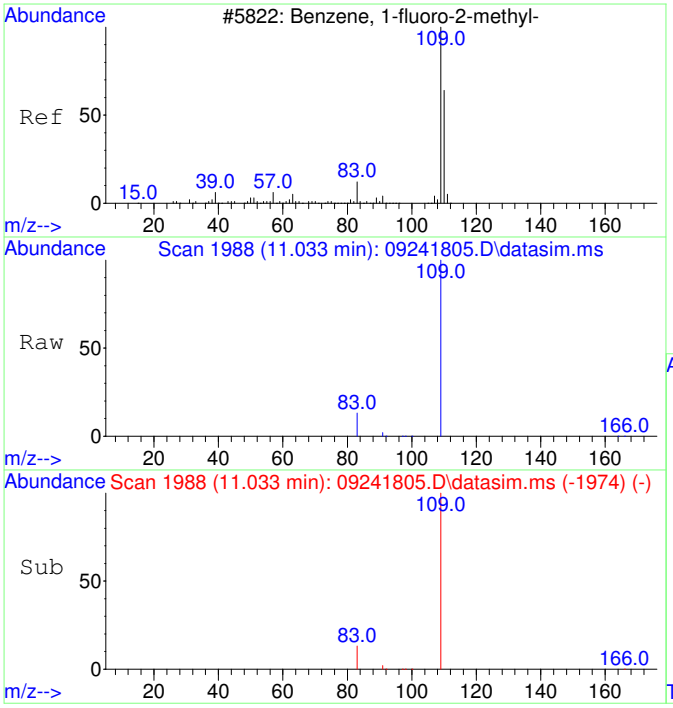
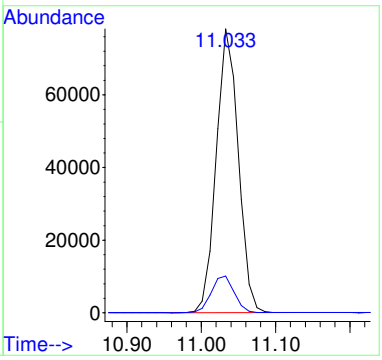
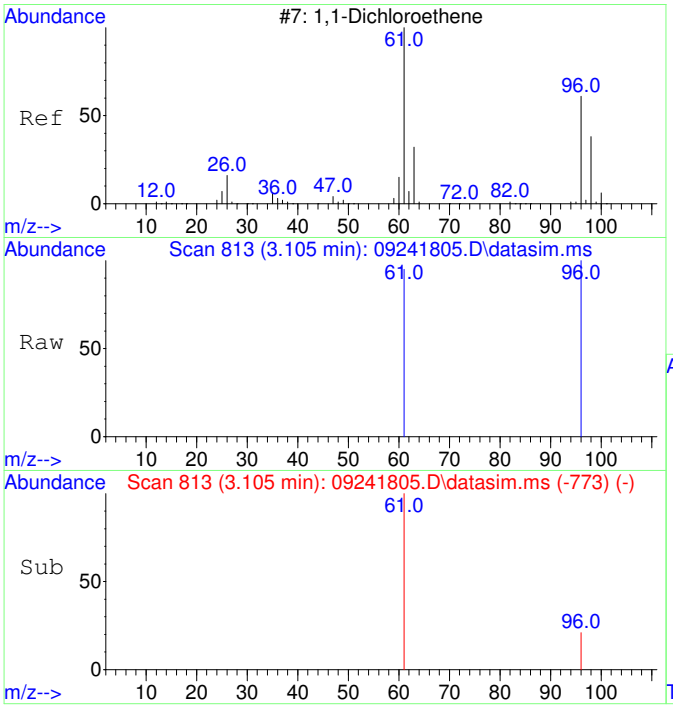


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:109 Resp: 160370

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	44.7

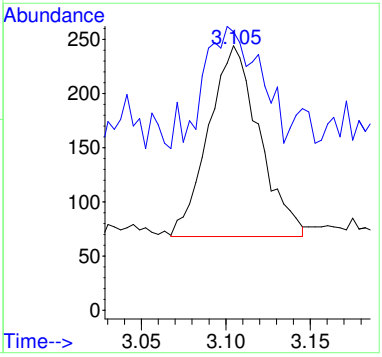


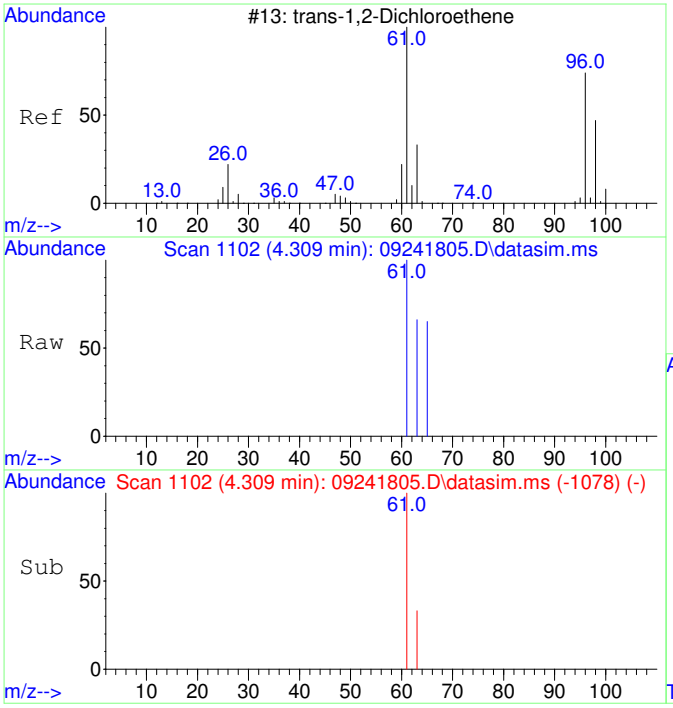


#2
1,1-Dichloroethene
Concen: 54.91 ug/L m
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 369

Ion	Ratio	Lower	Upper
61	100		
96	62.3	28.7	88.7

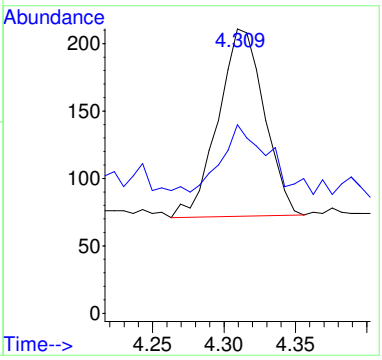


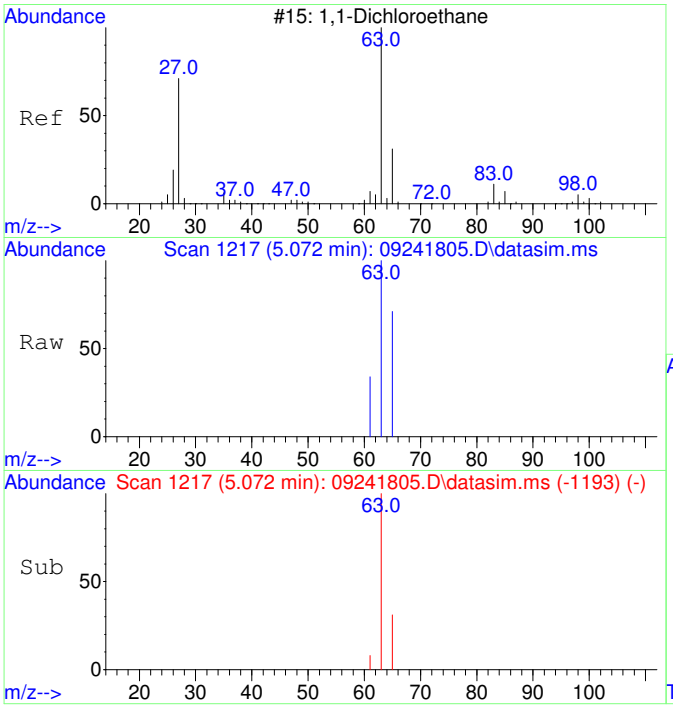


#3
trans-1,2-Dichloroethene
Concen: 43.65 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 313

Ion	Ratio	Lower	Upper
61	100		
63	33.2	2.0	62.0

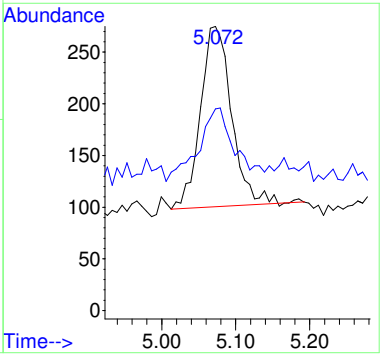


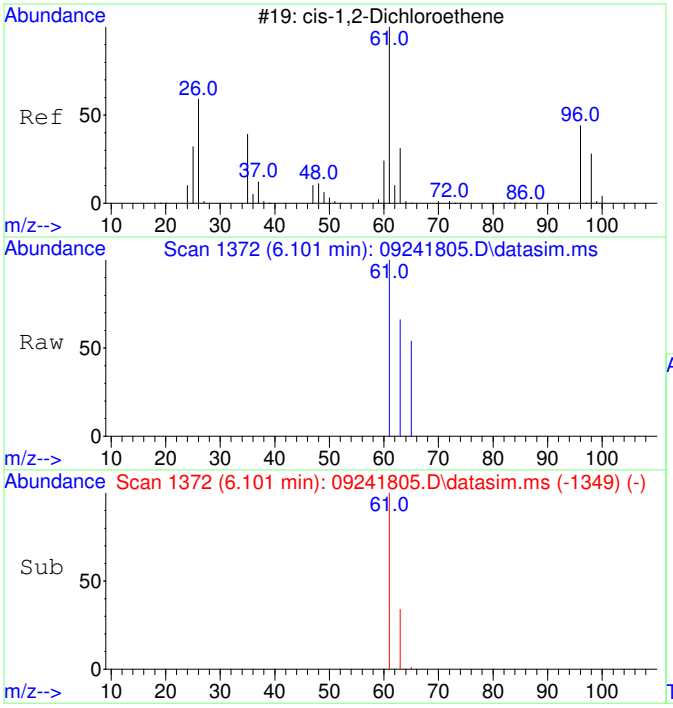


#4
1,1-Dichloroethane
Concen: 57.48 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 63 Resp: 513

Ion	Ratio	Lower	Upper
63	100		
65	47.4	1.5	61.5

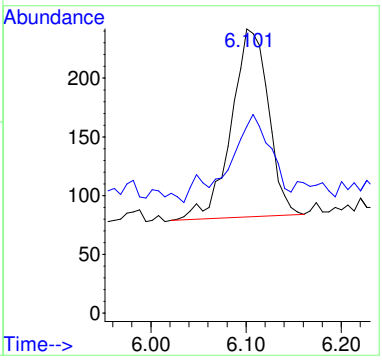


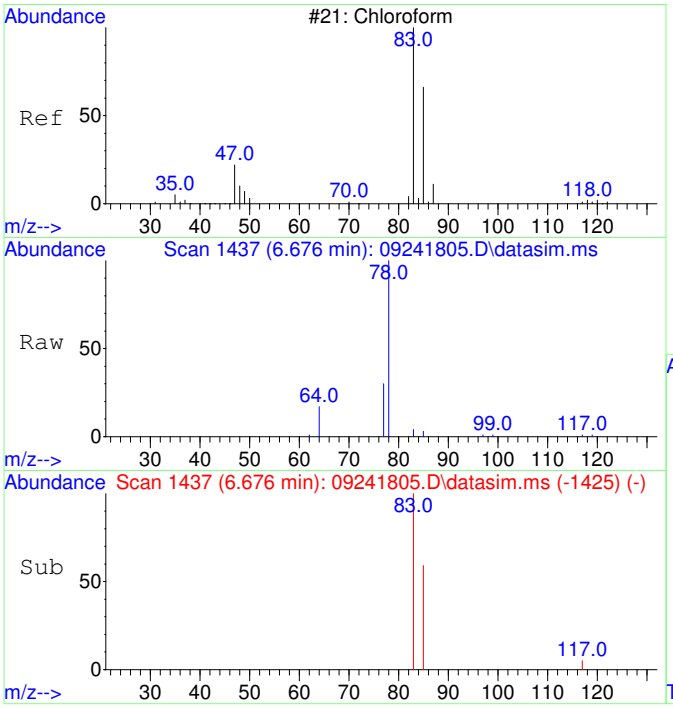


#5
cis-1,2-Dichloroethene
Concen: 49.40 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 435

Ion	Ratio	Lower	Upper
61	100		
63	42.3	2.2	62.2

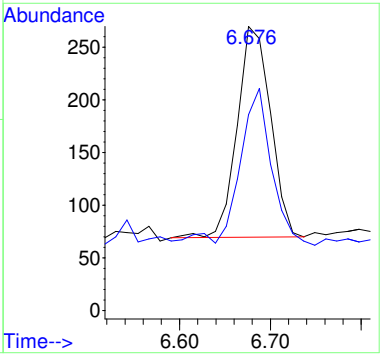


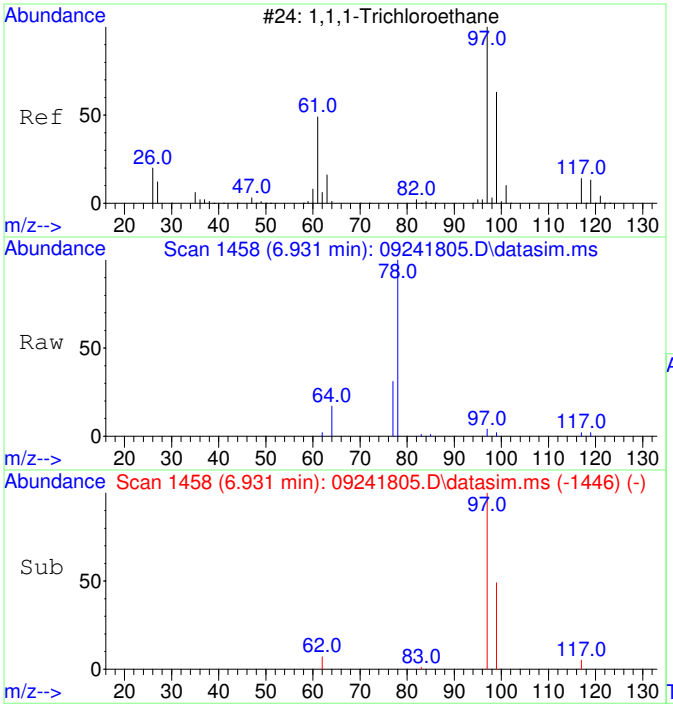


#6
Chloroform
Concen: 53.90 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 511

Ion	Ratio	Lower	Upper
83	100		
85	72.4	34.8	94.8

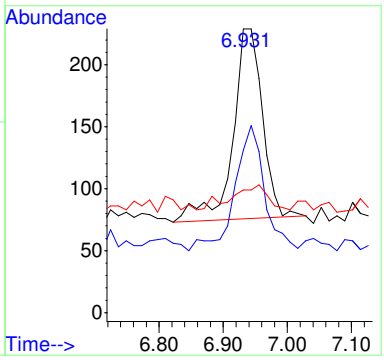


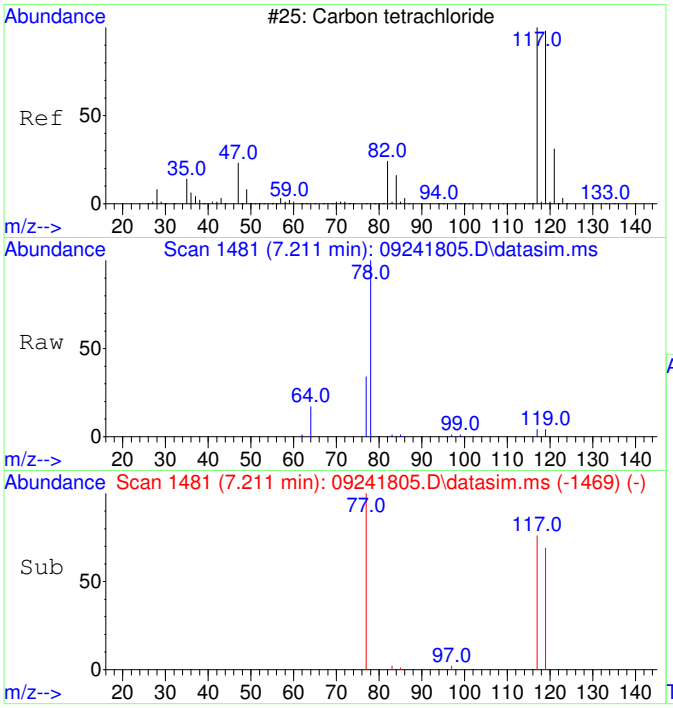


#7
1,1,1-Trichloroethane
Concen: 52.72 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 492

Ion	Ratio	Lower	Upper
97	100		
99	0.0	34.6	94.6#
117	0.0	0.0	42.9

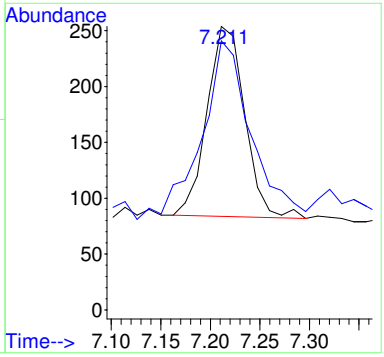


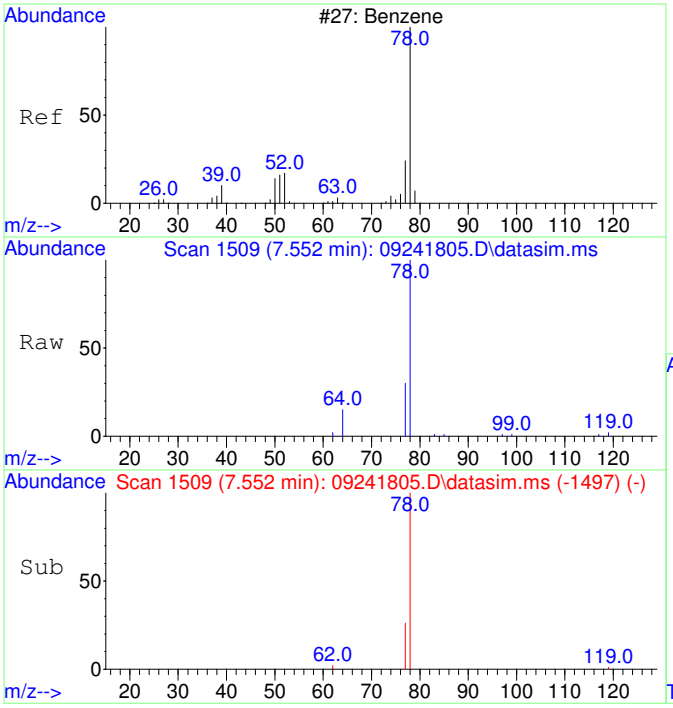


#8
Carbon tetrachloride
Concen: 50.91 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:117 Resp: 450

Ion	Ratio	Lower	Upper
117	100		
119	124.4	65.9	125.9

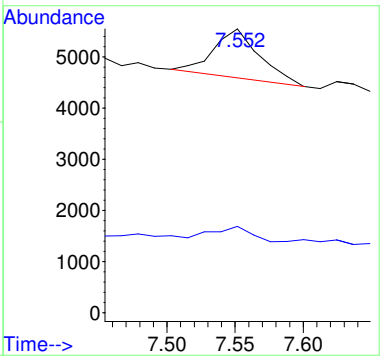


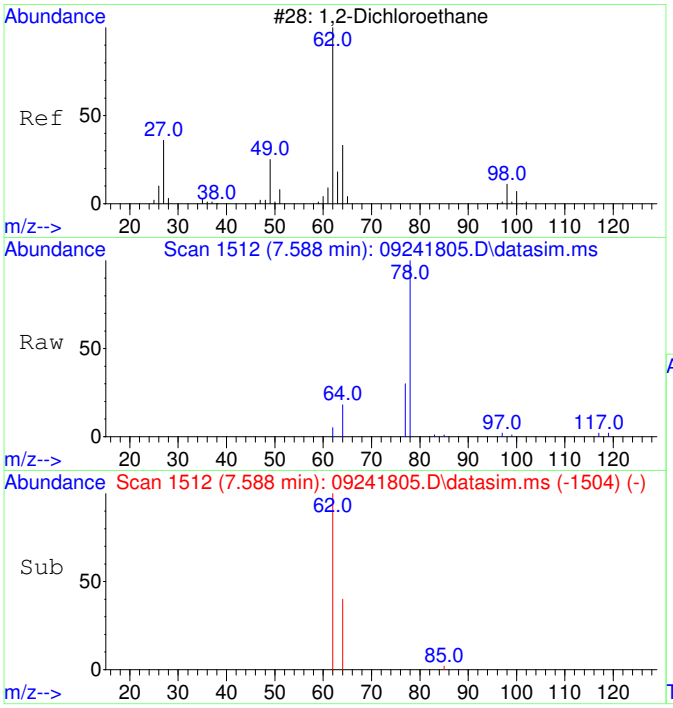


#9
Benzene
Concen: 81.91 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 78 Resp: 2109

Ion	Ratio	Lower	Upper
78	100		
77	30.3	0.0	53.0

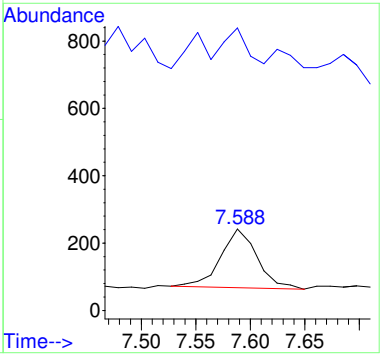


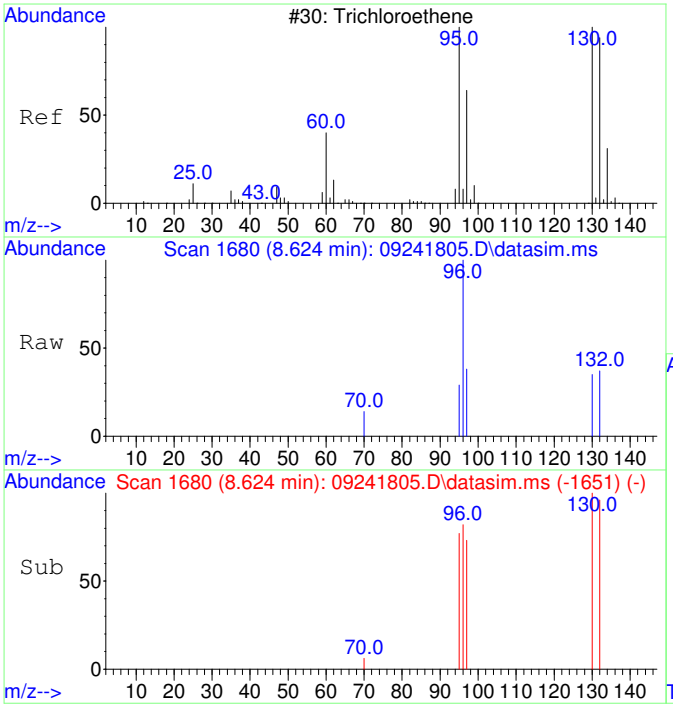


#10
1,2-Dichloroethane
Concen: 48.56 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 62 Resp: 403

Ion	Ratio	Lower	Upper
62	100		
64	44.7	2.3	62.3

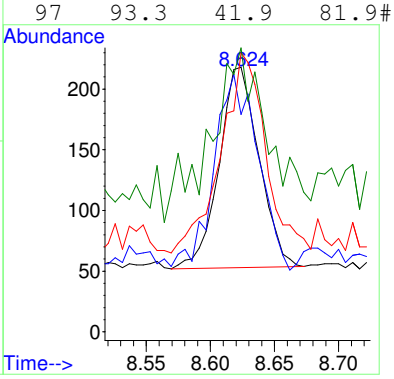


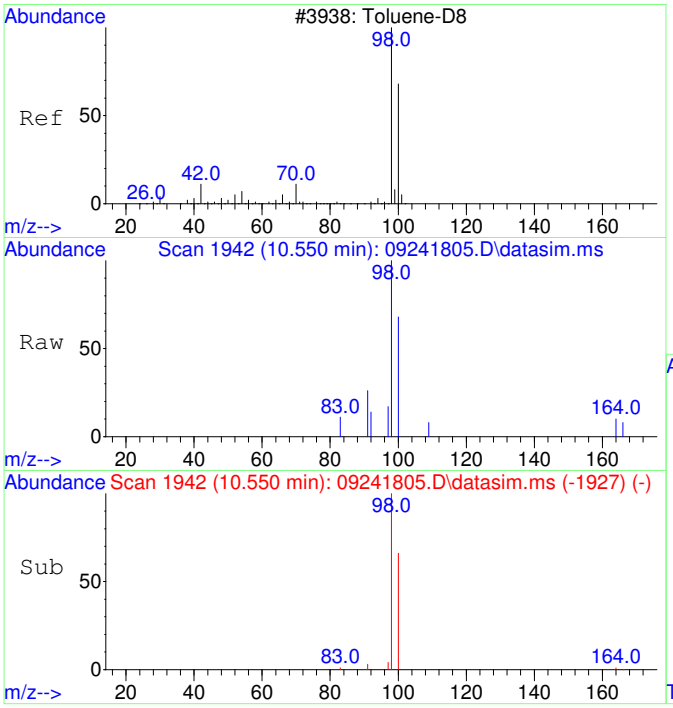


#11
Trichloroethene
Concen: 50.45 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:130 Resp: 357

Ion	Ratio	Lower	Upper
130	100		
95	107.8	66.0	126.0
132	111.5	78.8	118.8
97	93.3	41.9	81.9#

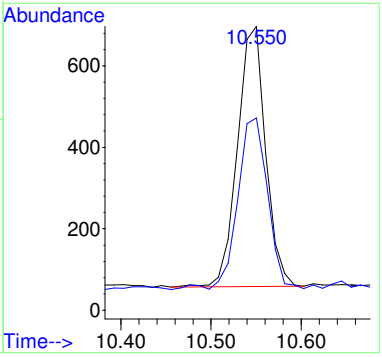


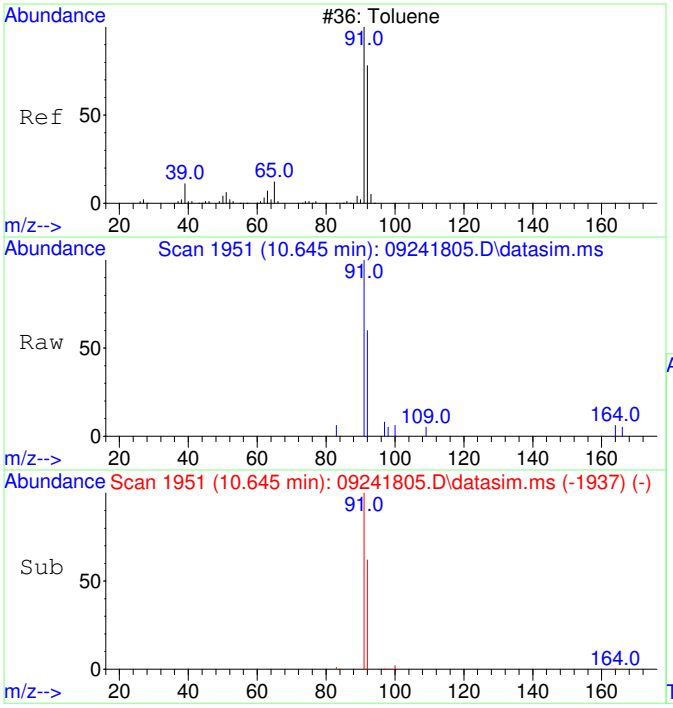


#12
Toluene-d8
Concen: 53.36 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 98 Resp: 1390

Ion	Ratio	Lower	Upper
98	100		
100	69.8	38.7	98.7

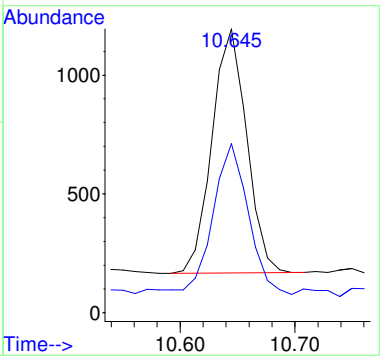


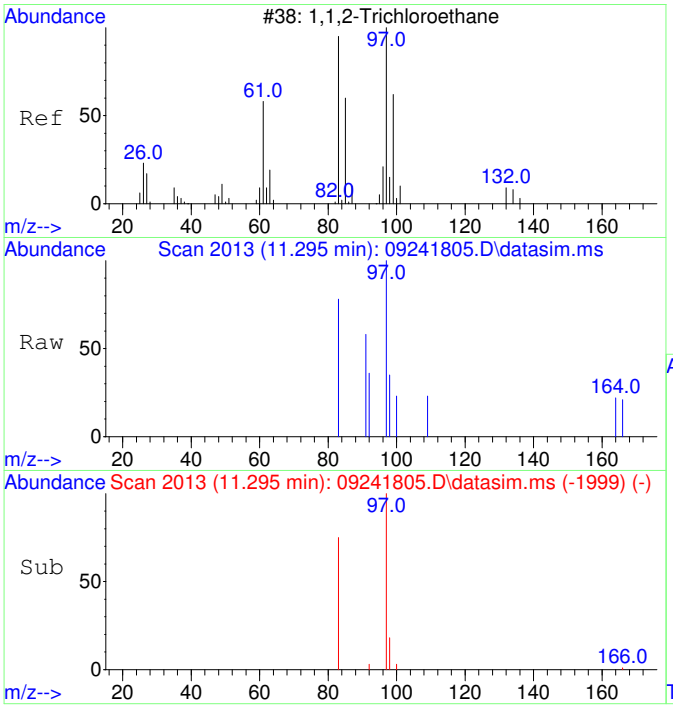


#13
Toluene
Concen: 61.70 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2155

Ion	Ratio	Lower	Upper
91	100		
92	63.6	30.0	90.0

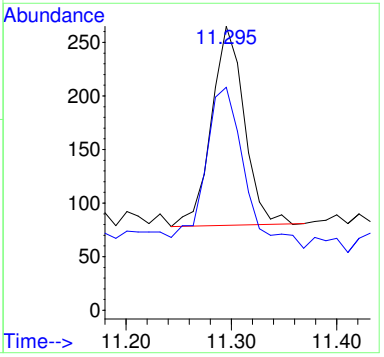


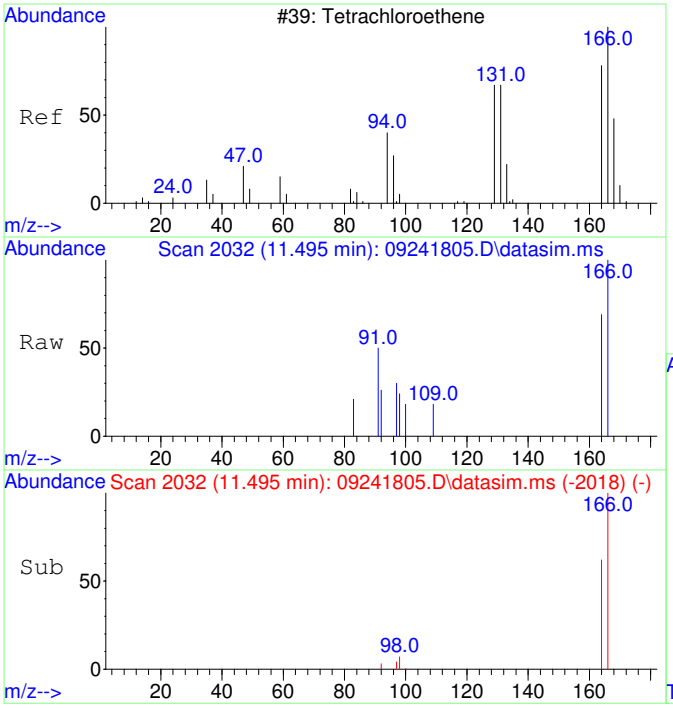


#14
1,1,2-Trichloroethane
Concen: 55.69 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
83	97.0	53.4	113.4

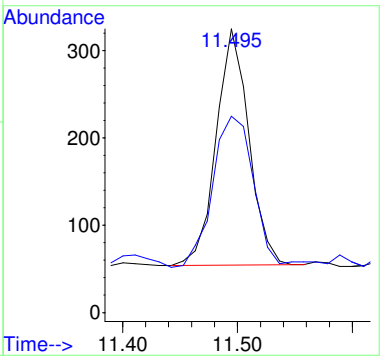


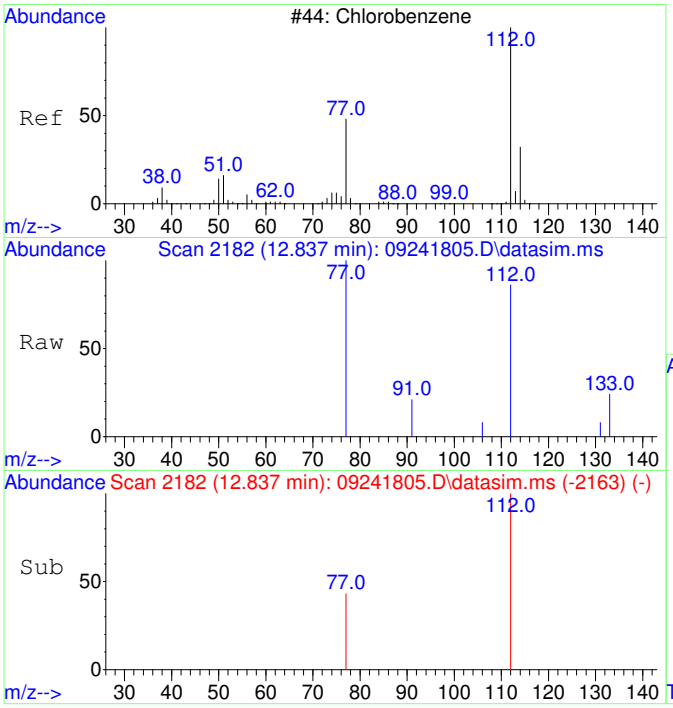


#15
Tetrachloroethene
Concen: 54.47 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:166 Resp: 536

Ion	Ratio	Lower	Upper
166	100		
164	79.9	47.8	107.8

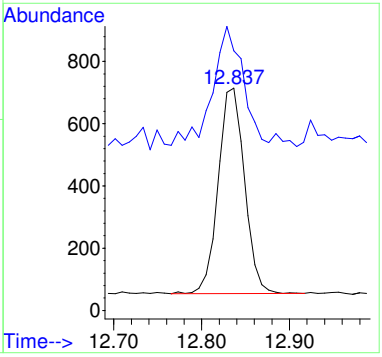


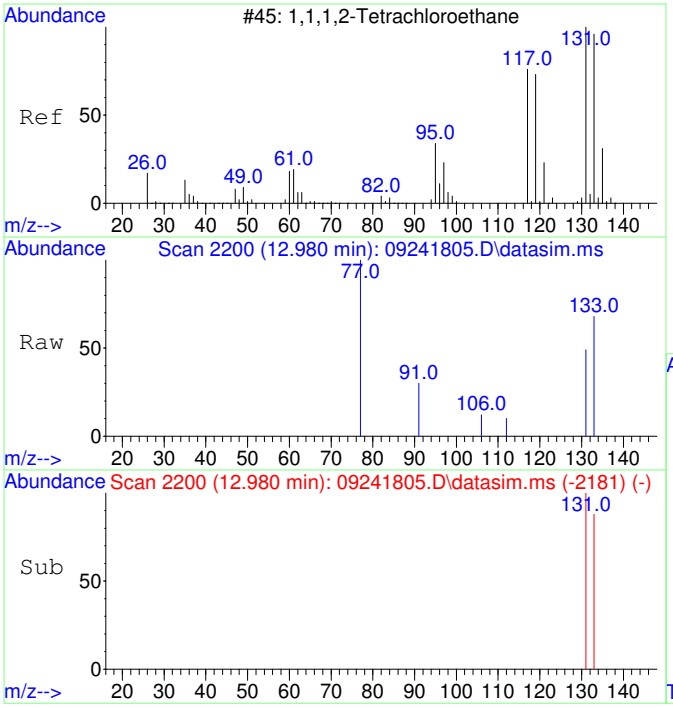


#16
Chlorobenzene
Concen: 54.96 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:112 Resp: 1370

Ion	Ratio	Lower	Upper
112	100		
77	68.2	28.1	88.1

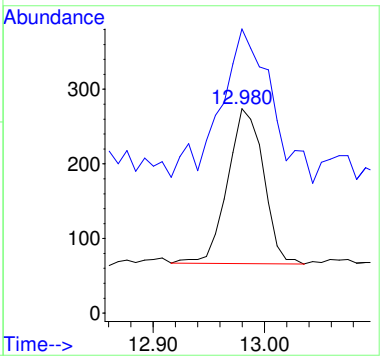


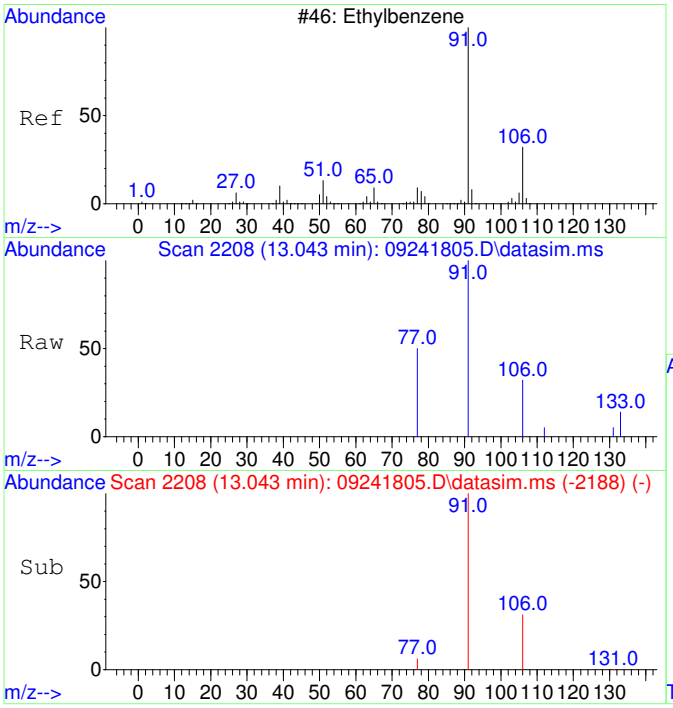


#17
1,1,1,2-Tetrachloroethane
Concen: 54.97 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:131 Resp: 465

Ion	Ratio	Lower	Upper
131	100		
133	145.4	66.2	126.2#

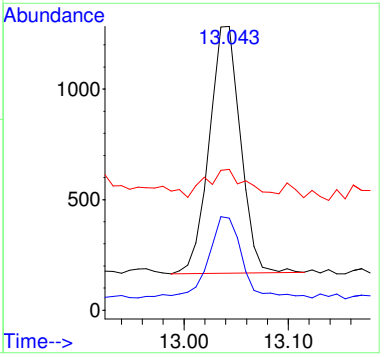


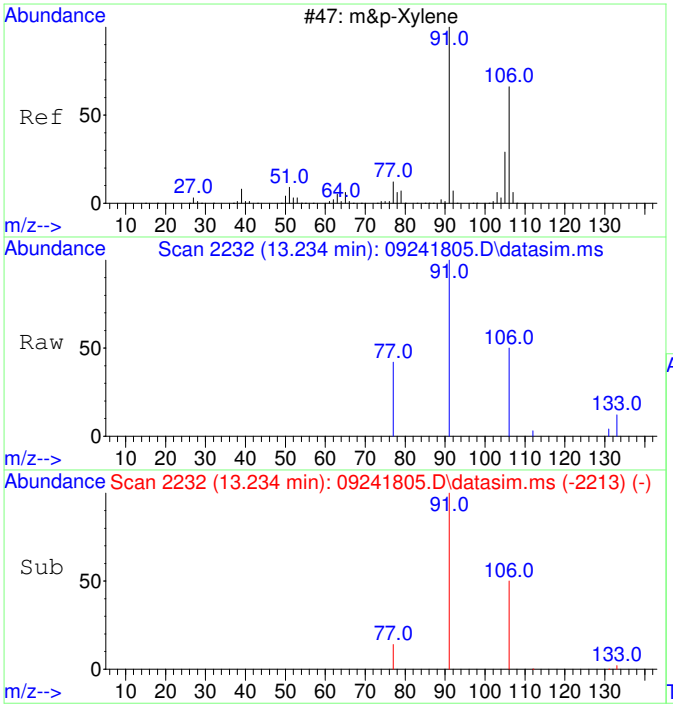


#18
Ethylbenzene
Concen: 55.31 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2318

Ion	Ratio	Lower	Upper
91	100		
106	35.7	2.8	62.8
77	15.4	0.0	38.6

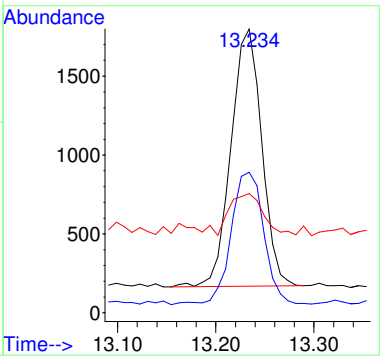


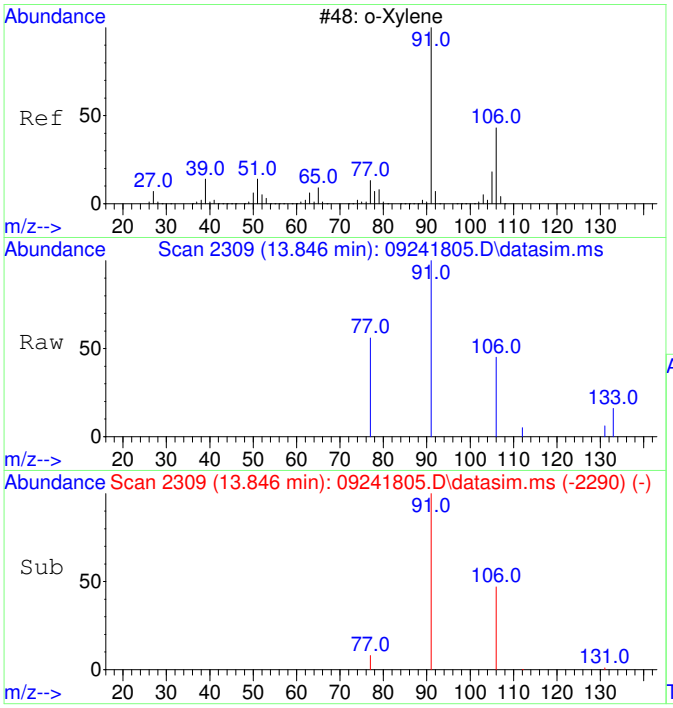


#19
m&p-Xylene
Concen: 109.37 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 3538

Ion	Ratio	Lower	Upper
91	100		
106	54.7	21.2	81.2
77	17.8	0.0	42.9

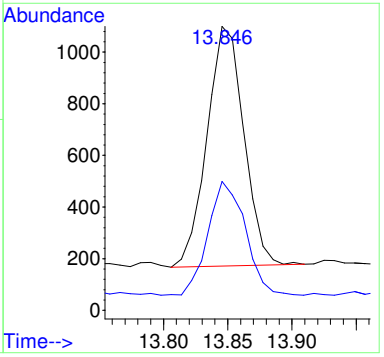


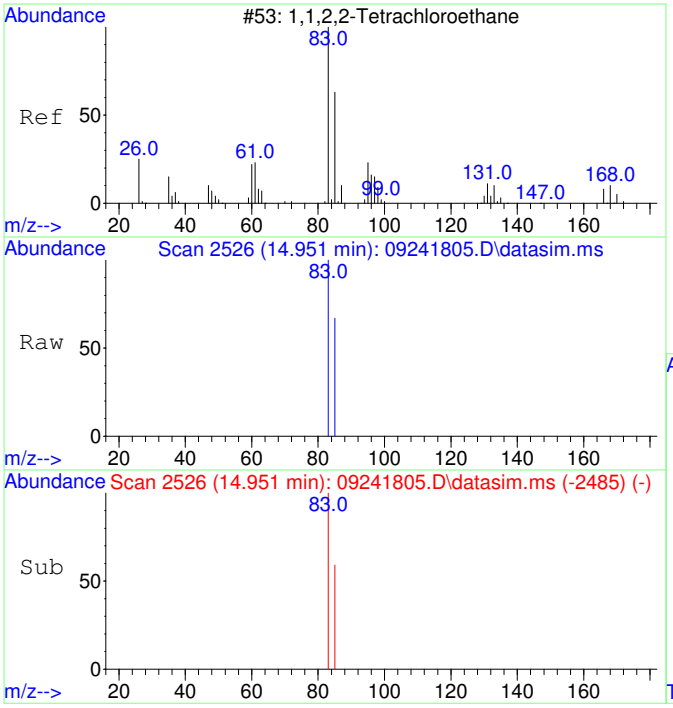


#20
o-Xylene
Concen: 54.06 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 1852

Ion	Ratio	Lower	Upper
91	100		
106	47.9	18.3	78.3

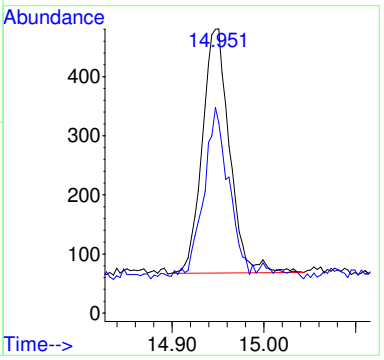


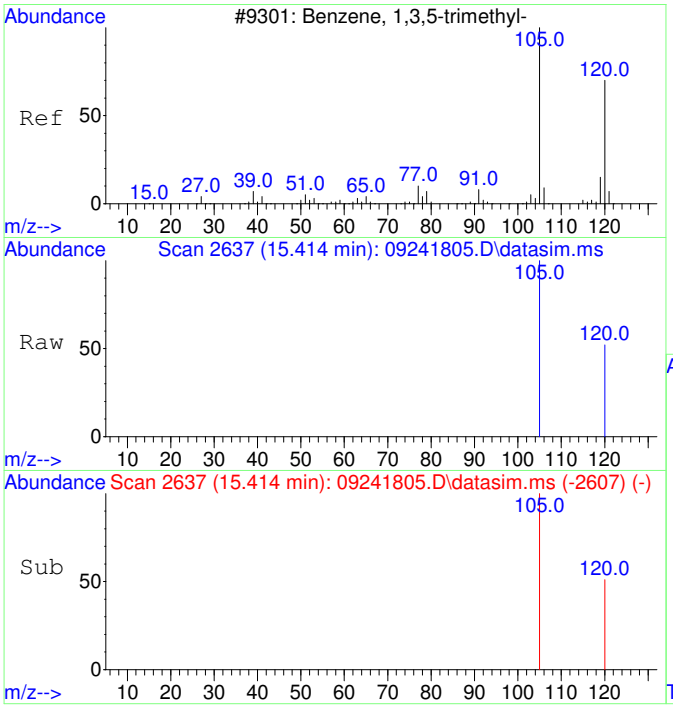


#21
1,1,2,2-Tetrachloroethane
Concen: 57.81 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 853

Ion	Ratio	Lower	Upper
83	100		
85	63.4	34.4	94.4

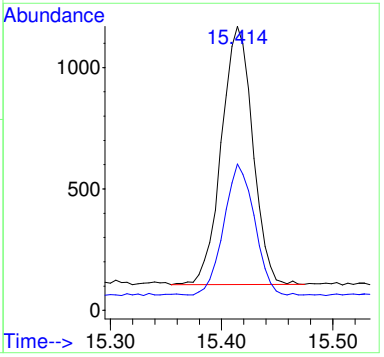


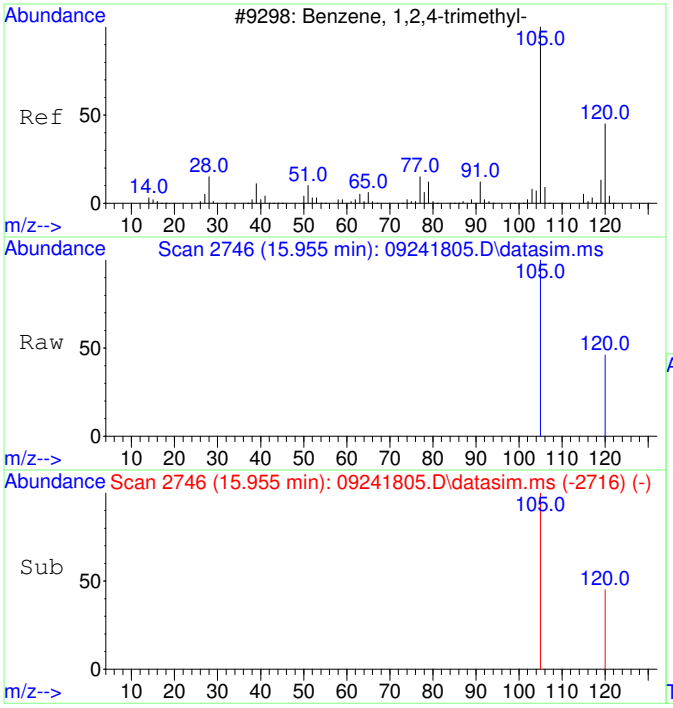


#22
1,3,5-Trimethylbenzene
Concen: 53.55 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 2076

Ion	Ratio	Lower	Upper
105	100		
120	49.8	19.1	79.1

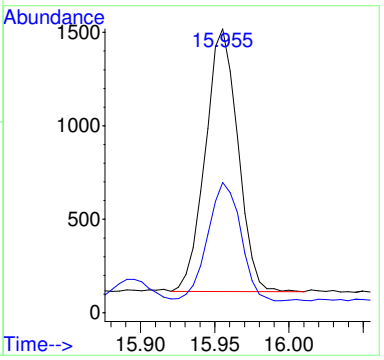


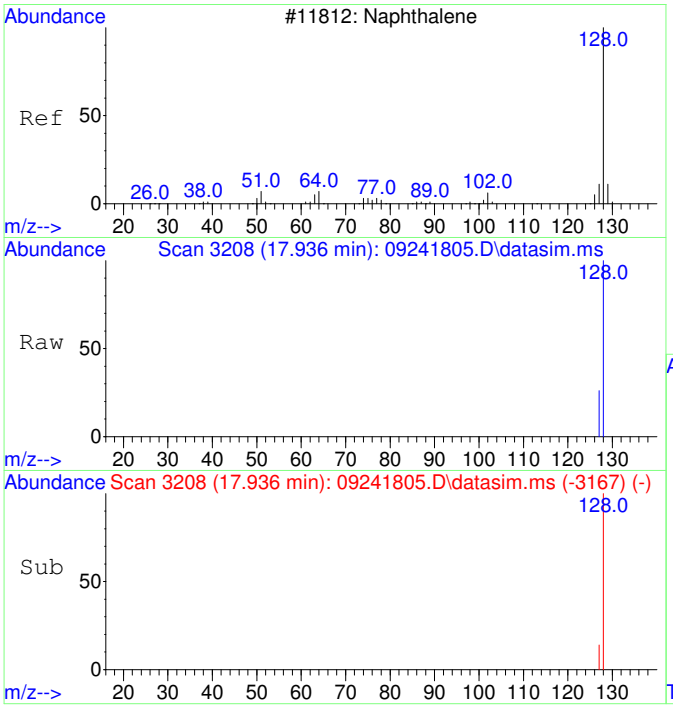


#23
1,2,4-Trimethylbenzene
Concen: 55.09 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 2136

Ion	Ratio	Lower	Upper
105	100		
120	44.9	15.5	75.5

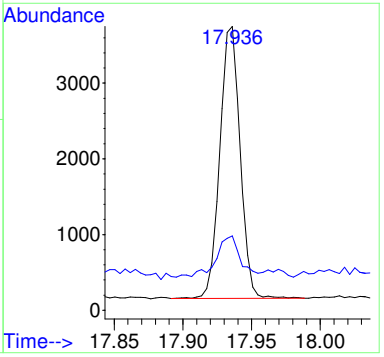


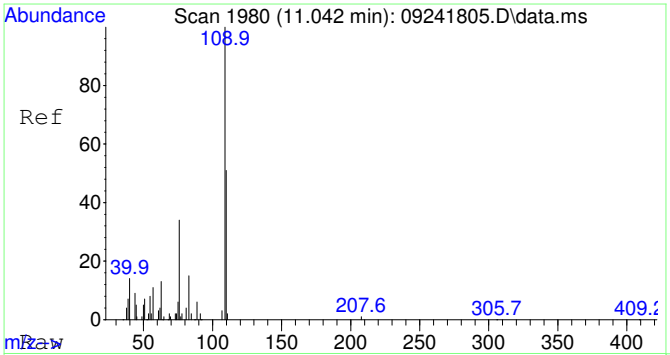


#24
Naphthalene
Concen: 57.66 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:128 Resp: 3669

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	42.5

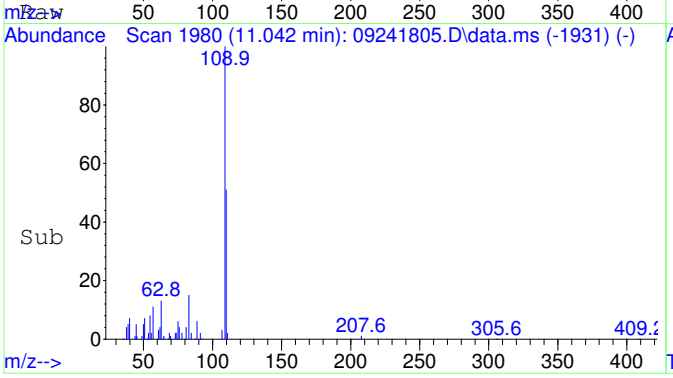


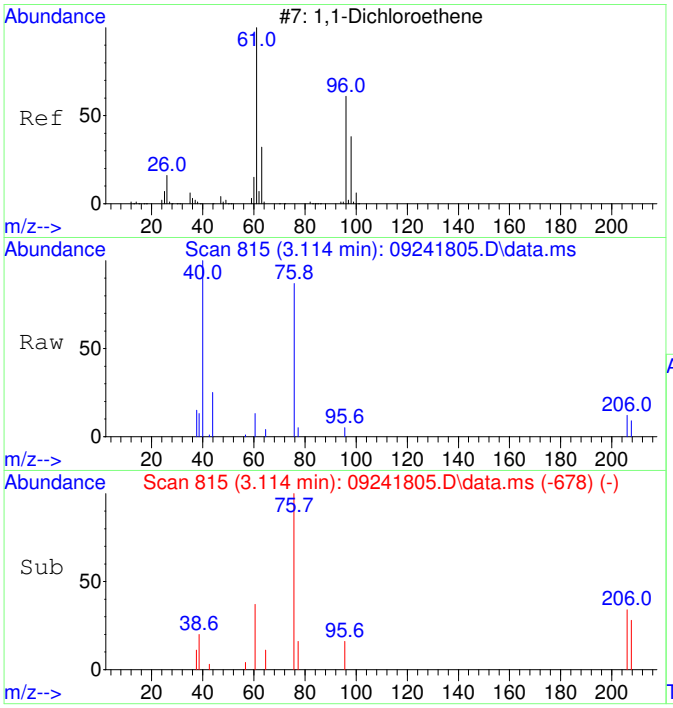


#25
2-Fluorotoluene SCAN
Concen: 4773.27 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:109 Resp: 89200

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	45.7

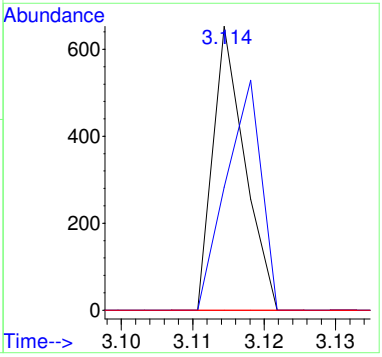


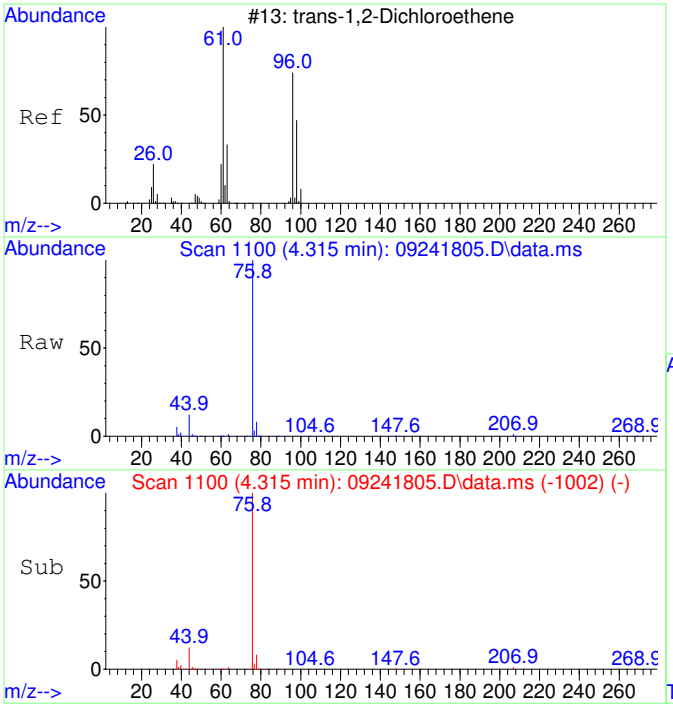


#26
1,1-Dichloroethene SCAN
Concen: 43.32 ug/L
RT: 3.114 min Scan# 815
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 202

Ion	Ratio	Lower	Upper
61	100		
96	89.6	23.8	83.8#
98	0.0	8.8	68.8#

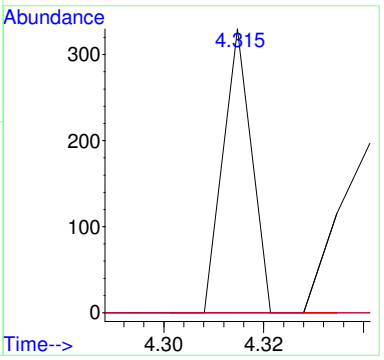


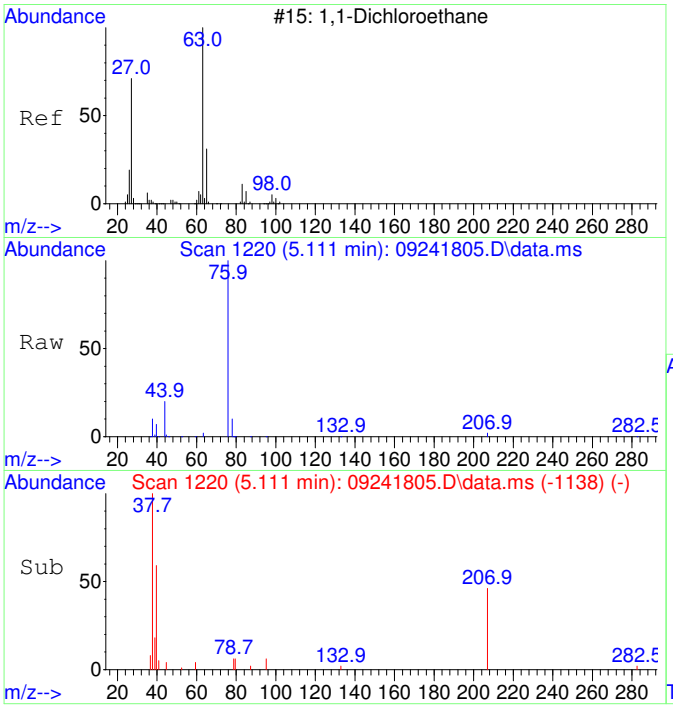


#27
trans-1,2-Dichloroethene SCAN
Concen: 24.13 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 131

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	0.0	12.7	72.7#

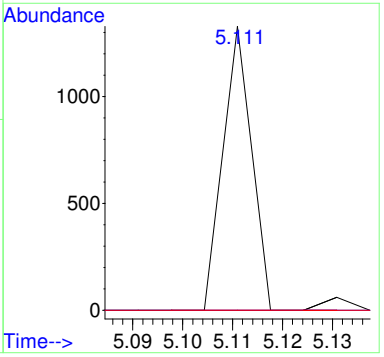


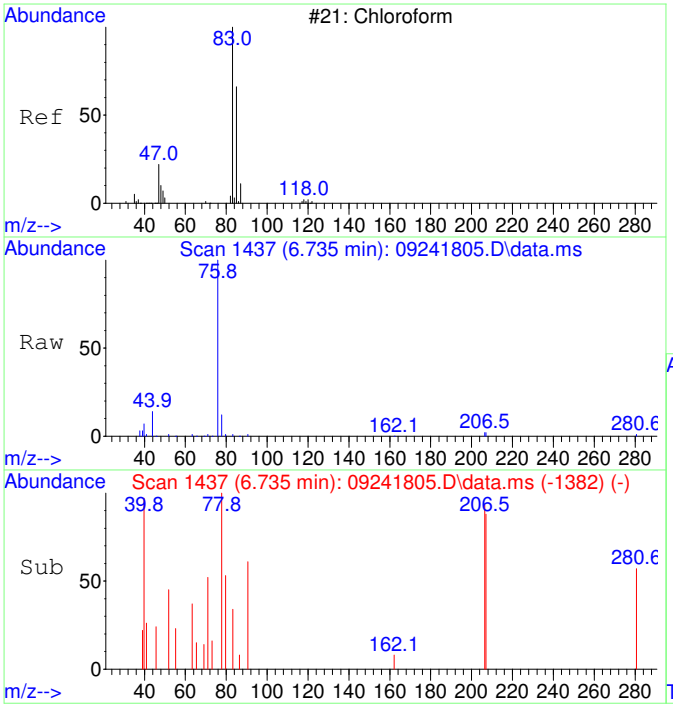


#28
1,1-Dichloroethane SCAN
Concen: 76.60 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.046 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 63 Resp: 529

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

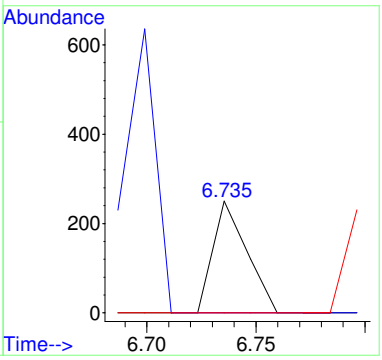


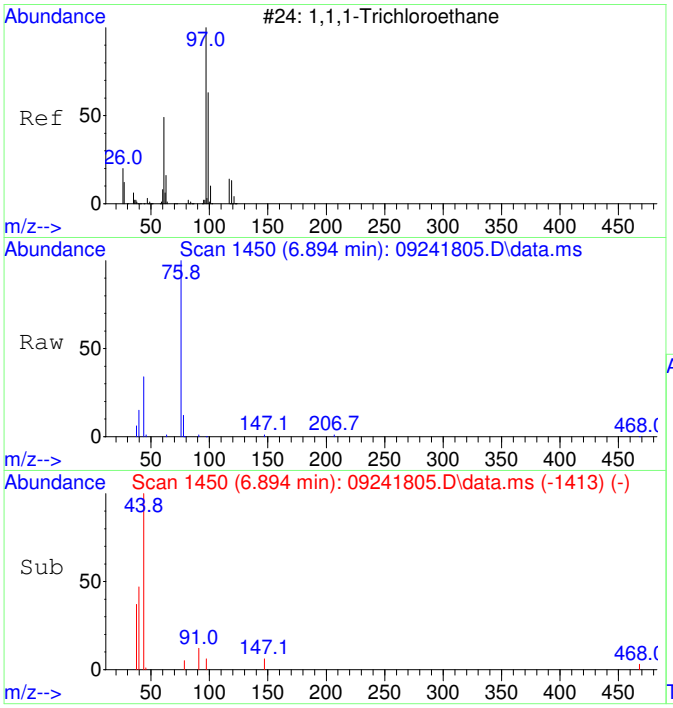


#30
Chloroform SCAN
Concen: 36.83 ug/L
RT: 6.735 min Scan# 1437
Delta R.T. 0.049 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 270

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

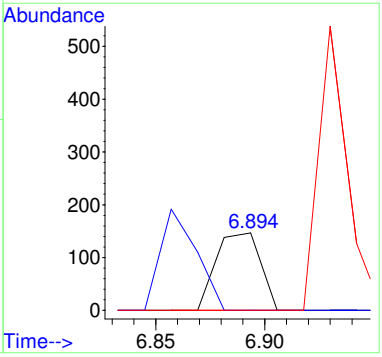


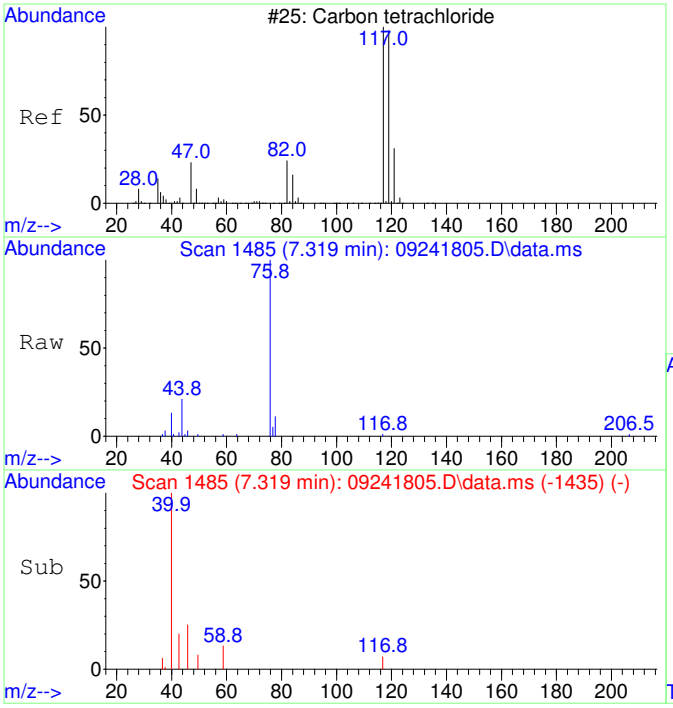


#31
1,1,1-Trichloroethane SCAN
Concen: 31.87 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.049 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 208

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

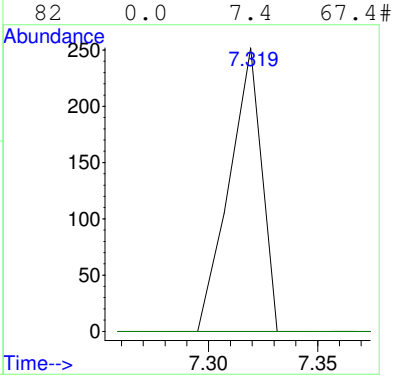


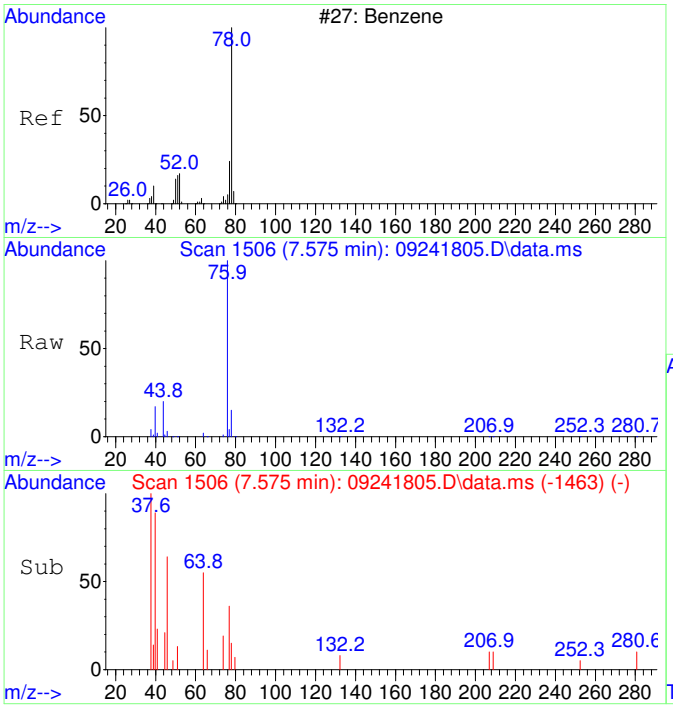


#32
Carbon tetrachloride SCAN
Concen: 40.59 ug/L
RT: 7.319 min Scan# 1485
Delta R.T. 0.109 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:117 Resp: 261

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

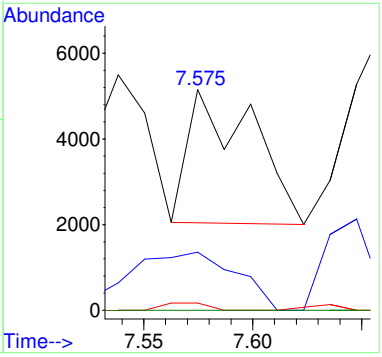


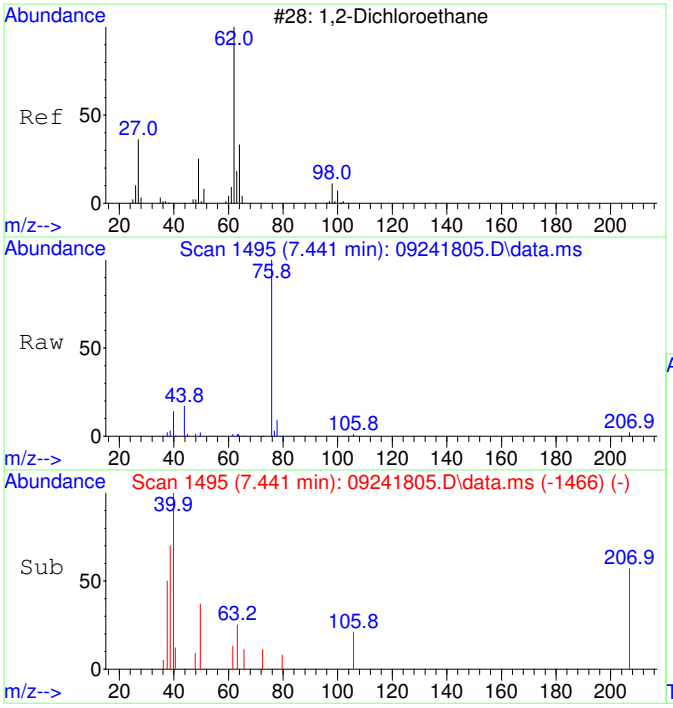


#33
Benzene SCAN
Concen: 329.82 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.024 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 78 Resp: 6419

Ion	Ratio	Lower	Upper
78	100		
77	73.5	3.0	63.0#
51	3.8	0.0	56.4
52	0.0	0.0	48.0

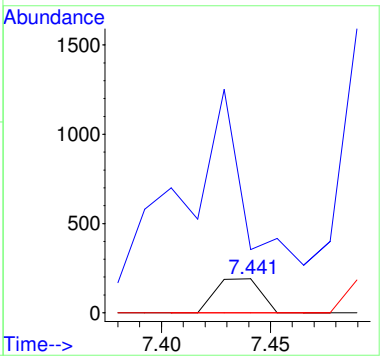


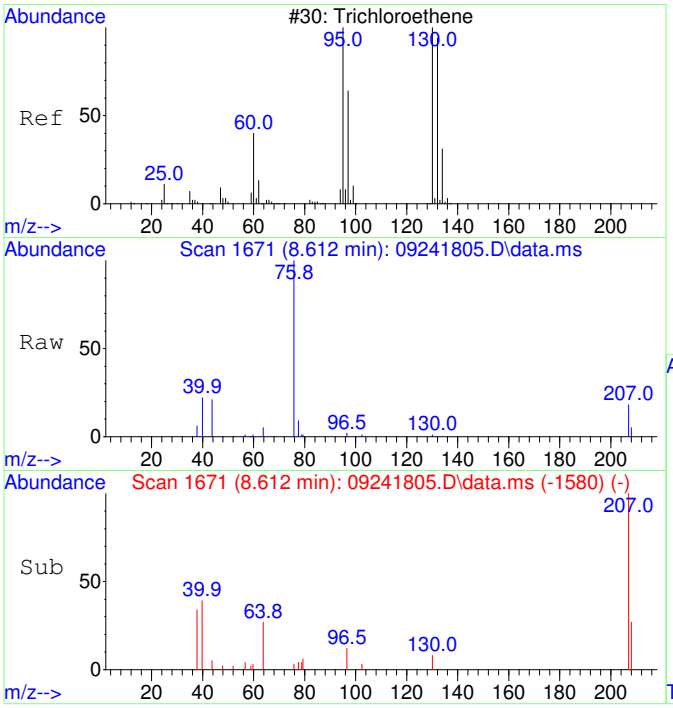


#34
1,2-Dichloroethane SCAN
Concen: 41.58 ug/L
RT: 7.441 min Scan# 1495
Delta R.T. -0.146 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 62 Resp: 276

Ion	Ratio	Lower	Upper
62	100		
64	680.1	1.2	61.2#
49	0.0	10.4	70.4#

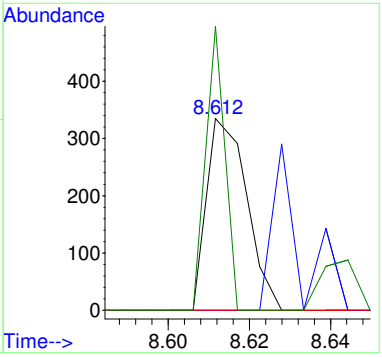


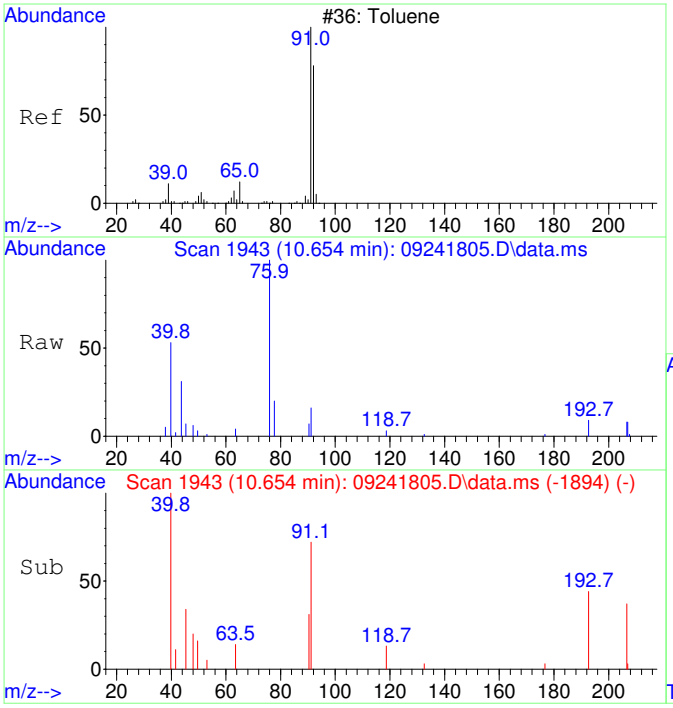


#35
Trichloroethene SCAN
Concen: 48.08 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:130 Resp: 229

Ion	Ratio	Lower	Upper
130	100		
95	0.0	70.5	130.5#
132	0.0	63.8	123.8#
97	70.7	34.8	94.8

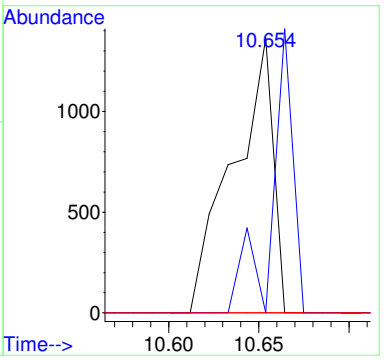


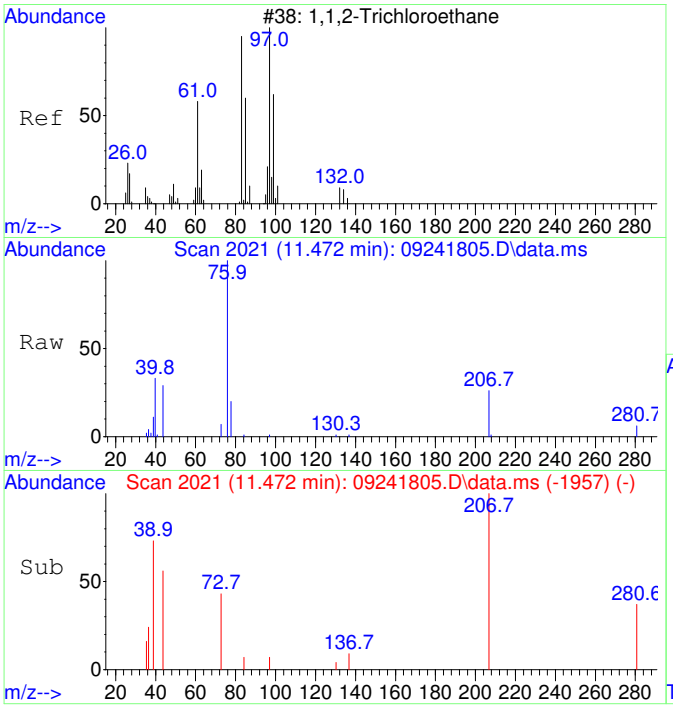


#37
Toluene SCAN
Concen: 98.01 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2115

Ion	Ratio	Lower	Upper
91	100		
92	54.6	26.6	86.6
65	0.0	0.0	42.3

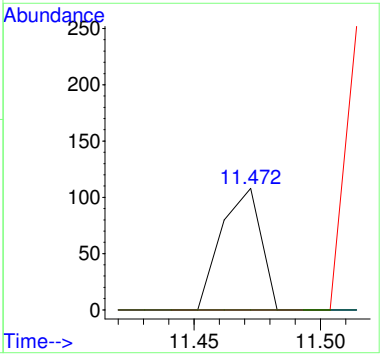


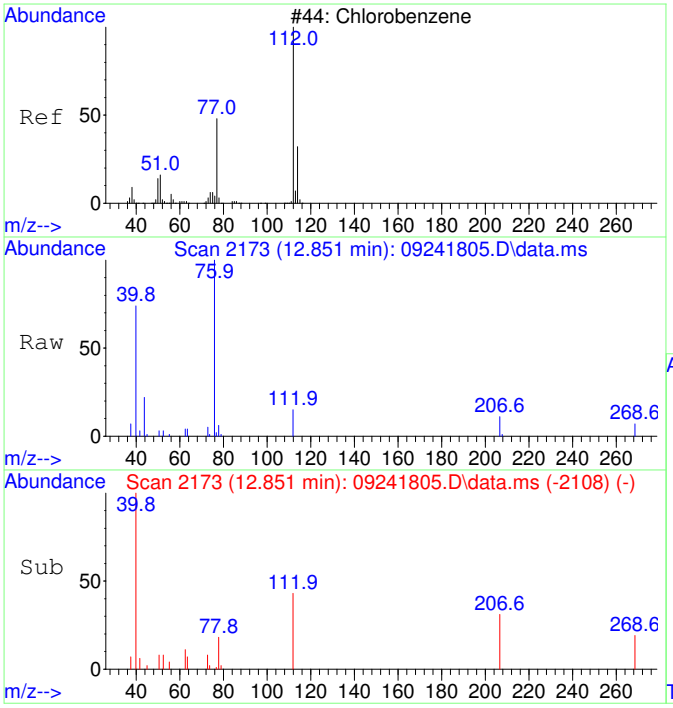


#38
1,1,2-Trichloroethane SCAN
Concen: 28.54 ug/L
RT: 11.472 min Scan# 2021
Delta R.T. 0.168 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 118

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

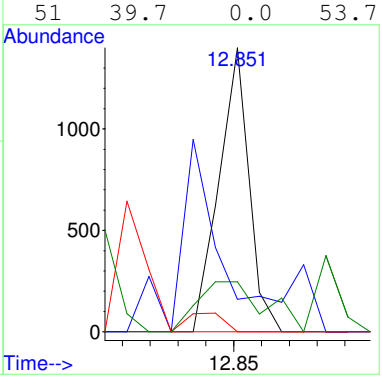


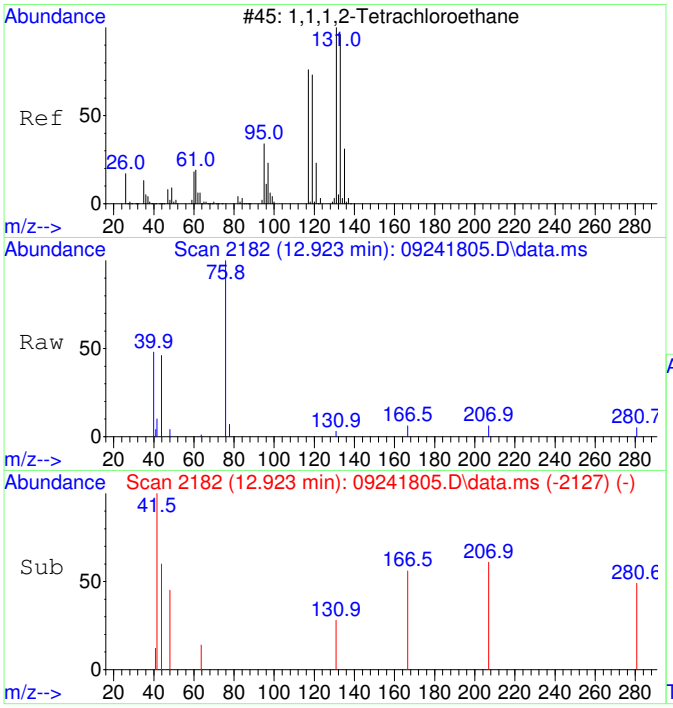


#40
Chlorobenzene SCAN
Concen: 80.67 ug/L
RT: 12.851 min Scan# 2173
Delta R.T. 0.016 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:112 Resp: 1056

Ion	Ratio	Lower	Upper
112	100		
77	110.6	28.4	88.4#
114	0.0	0.0	59.5
51	39.7	0.0	53.7

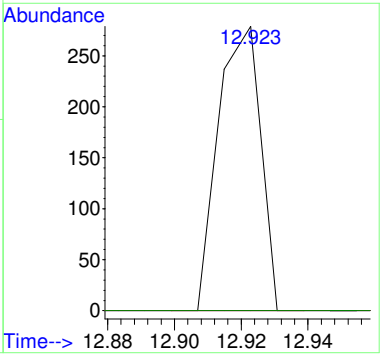


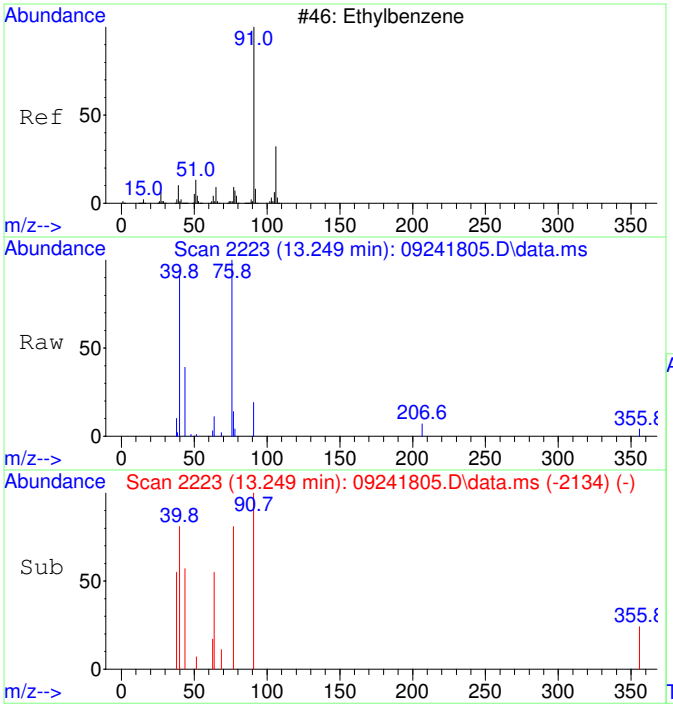


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 52.65 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. -0.064 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:131 Resp: 246

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

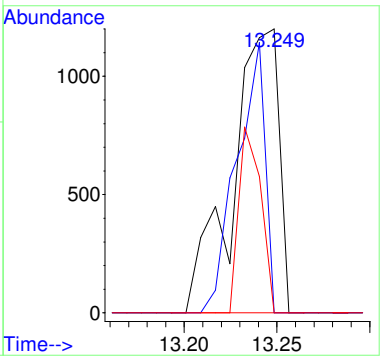


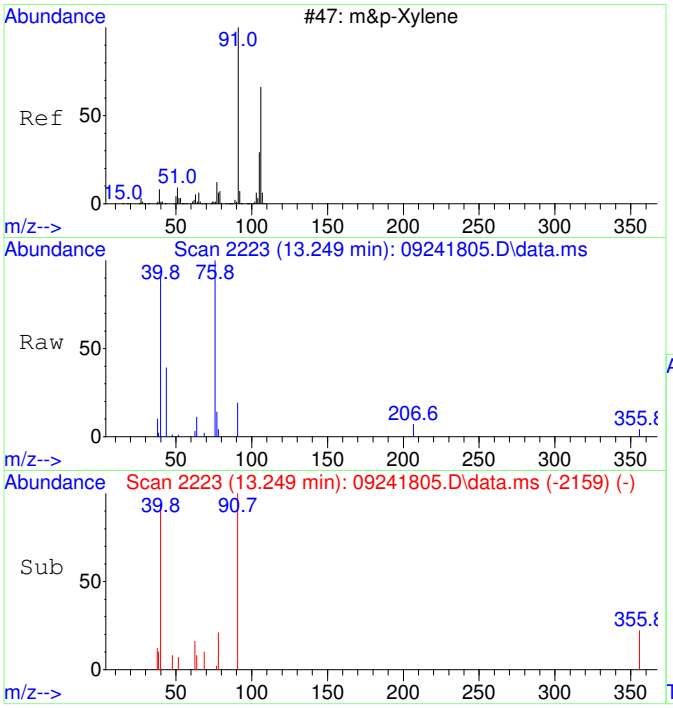


#42
Ethylbenzene SCAN
Concen: 83.16 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.207 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2086

Ion	Ratio	Lower	Upper
91	100		
106	58.2	3.2	63.2
51	31.2	0.0	40.1

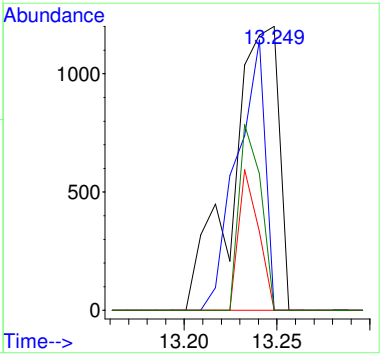


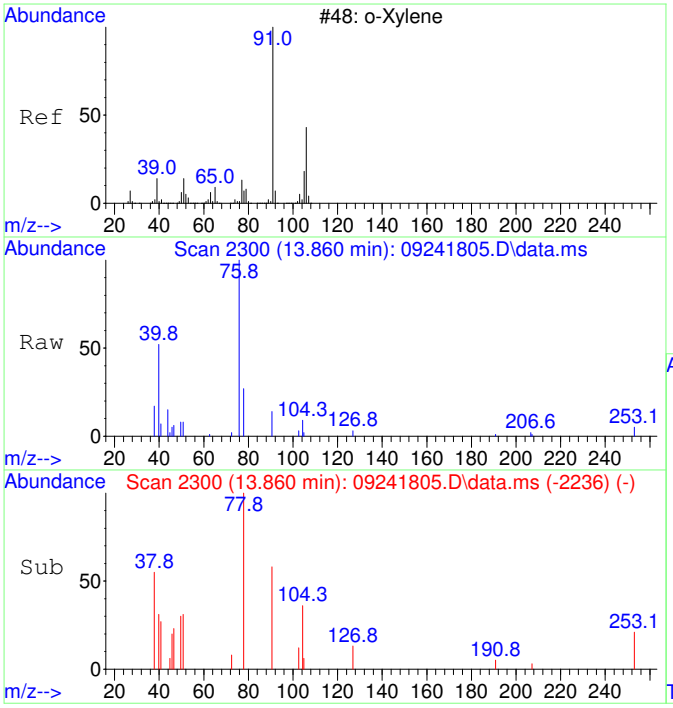


#43
m&p-Xylene SCAN
Concen: 59.91 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2086

Ion	Ratio	Lower	Upper
91	100		
106	58.2	20.1	80.1
105	21.2	0.0	51.1
51	31.2	0.0	40.7

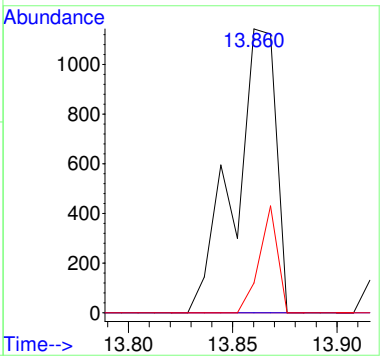


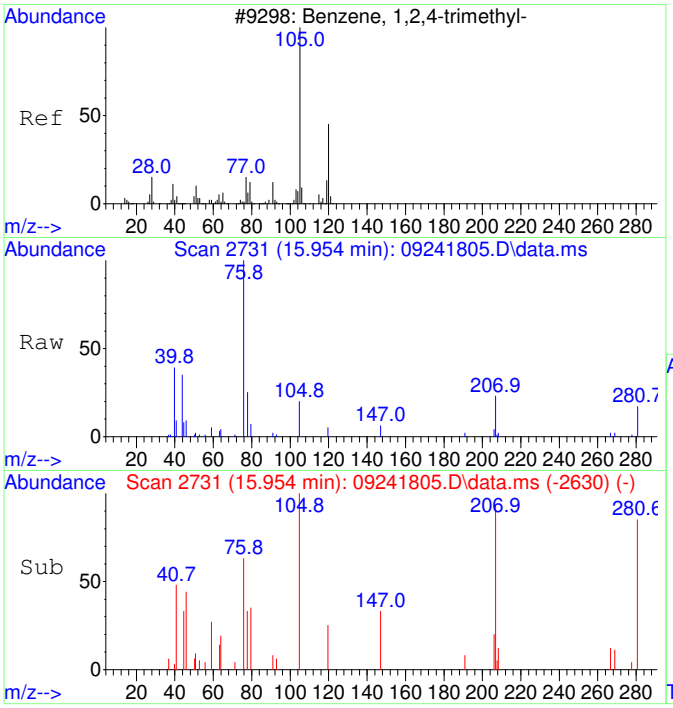


#44
o-Xylene SCAN
Concen: 79.48 ug/L
RT: 13.860 min Scan# 2300
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 1575

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	16.6	0.0	55.2

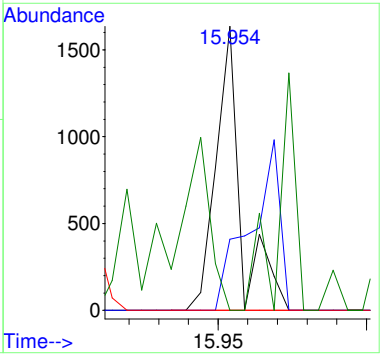


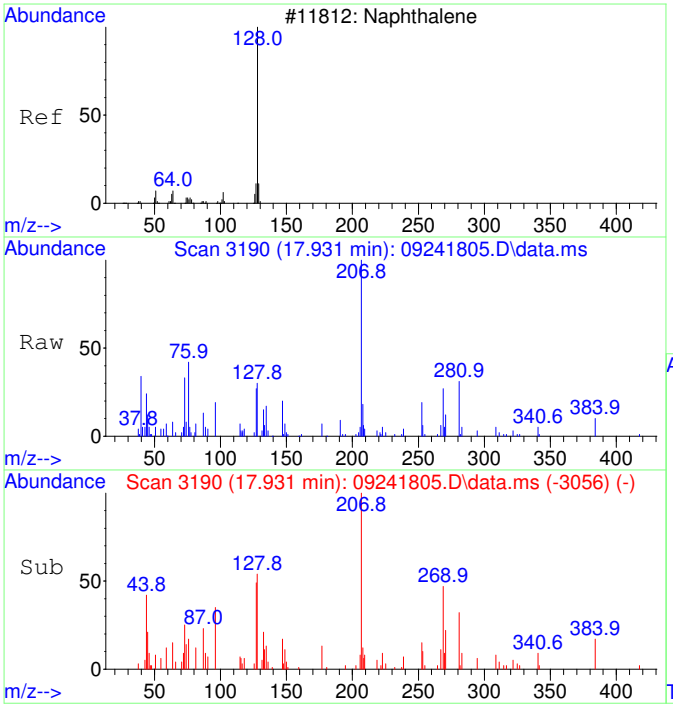


#47
1,2,4-Trimethylbenzene SCAN
Concen: 47.28 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 952

Ion	Ratio	Lower	Upper
105	100		
120	0.0	15.4	75.4#
119	0.0	0.0	41.7
77	43.5	0.0	42.0#

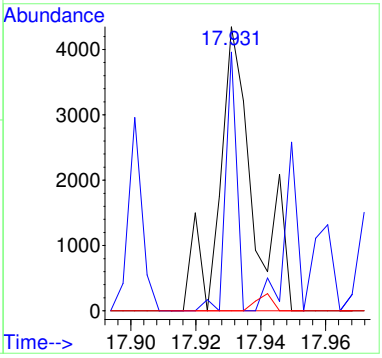




#48
Naphthalene SCAN
Concen: 111.90 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. -0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:128 Resp: 3215

Ion	Ratio	Lower	Upper
128	100		
127	28.6	0.0	43.9
129	0.0	0.0	40.5



Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 13:50
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 16:29:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

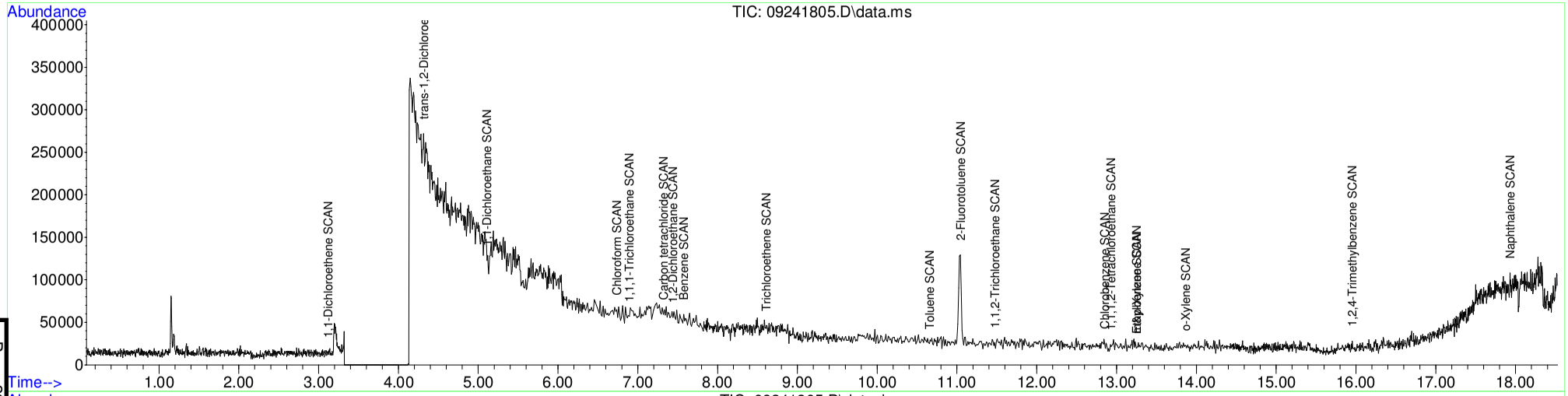
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	160370	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	1390	53.36 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.07%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	985	146.56 ug/L #	53
3] trans-1,2-Dichloroethene	4.309	61	313	43.65 ug/L	98
4] 1,1-Dichloroethane	5.072	63	513	57.48 ug/L	71
5] cis-1,2-Dichloroethene	6.101	61	435	49.40 ug/L	82
6] Chloroform	6.676	83	511	53.90 ug/L	90
7] 1,1,1-Trichloroethane	6.931	97	492	52.72 ug/L #	26
8] Carbon tetrachloride	7.211	117	450	50.91 ug/L	71
9] Benzene	7.552	78	2109	81.91 ug/L	85
10] 1,2-Dichloroethane	7.588	62	403	48.56 ug/L	78
11] Trichloroethene	8.624	130	357	50.45 ug/L #	81
13] Toluene	10.645	91	2155	61.70 ug/L	95
14] 1,1,2-Trichloroethane	11.295	97	402	55.69 ug/L	85
15] Tetrachloroethene	11.495	166	536	54.47 ug/L	98
16] Chlorobenzene	12.837	112	1370	54.96 ug/L	86
17] 1,1,1,2-Tetrachloroethane	12.980	131	465	54.97 ug/L #	50
18] Ethylbenzene	13.043	91	2318	55.31 ug/L	92
19] m&p-Xylene	13.234	91	3538	109.37 ug/L	94
20] o-Xylene	13.846	91	1852	54.06 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.951	83	853	57.81 ug/L	99
22] 1,3,5-Trimethylbenzene	15.414	105	2076	53.55 ug/L	99
23] 1,2,4-Trimethylbenzene	15.955	105	2136	55.09 ug/L	99
24] Naphthalene	17.936	128	3669	57.66 ug/L	94
25) 2-Fluorotoluene SCAN	11.042	109	89200	4773.27 ug/L	99
26) 1,1-Dichloroethene SCAN	3.114	61	202	43.32 ug/L #	44
27) trans-1,2-Dichloroethe...	4.315	61	131	24.13 ug/L #	23
28) 1,1-Dichloroethane SCAN	5.111	63	529	76.60 ug/L #	43
30) Chloroform SCAN	6.735	83	270	36.83 ug/L #	28
31) 1,1,1-Trichloroethane ...	6.894	97	208	31.87 ug/L #	26
32) Carbon tetrachloride SCAN	7.319	117	261	40.59 ug/L #	13
33) Benzene SCAN	7.575	78	6419	329.82 ug/L #	45
34) 1,2-Dichloroethane SCAN	7.441	62	276	41.58 ug/L #	1
35) Trichloroethene SCAN	8.612	130	229	48.08 ug/L #	24
37) Toluene SCAN	10.654	91	2115	98.01 ug/L #	92
38) 1,1,2-Trichloroethane ...	11.472	97	118	28.54 ug/L #	10
40) Chlorobenzene SCAN	12.851	112	1056	80.67 ug/L #	42
41) 1,1,1,2-Tetrachloroeth...	12.923	131	246	52.65 ug/L #	13
42) Ethylbenzene SCAN	13.249	91	2086	83.16 ug/L	53
43) m&p-Xylene SCAN	13.249	91	2086	59.91 ug/L	86
44) o-Xylene SCAN	13.860	91	1575	79.48 ug/L #	45
47) 1,2,4-Trimethylbenzene...	15.954	105	952	47.28 ug/L #	35
48) Naphthalene SCAN	17.931	128	3215	111.90 ug/L #	67

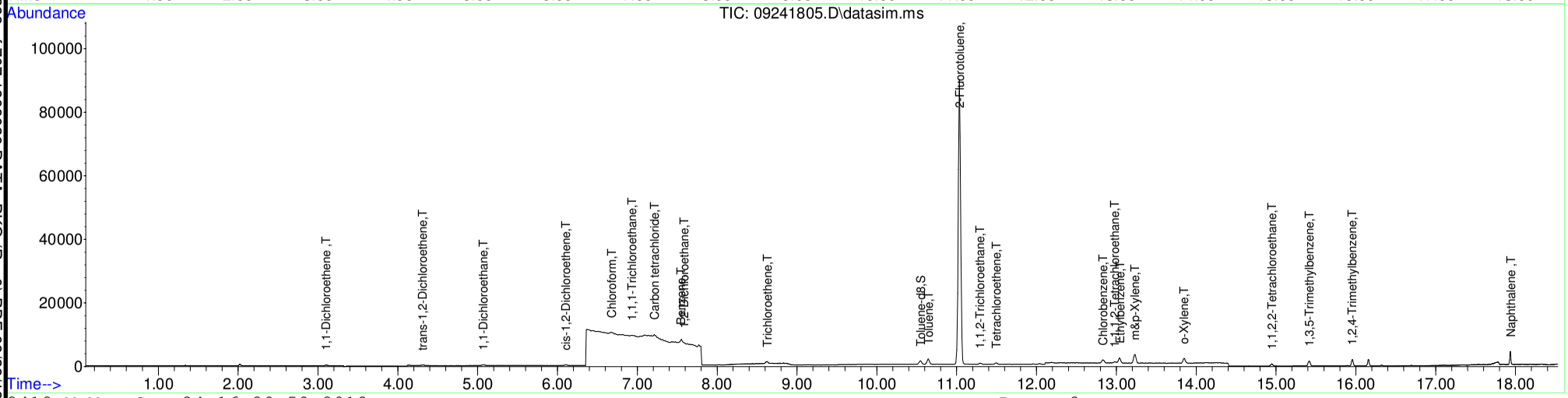
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 13:50
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 16:29:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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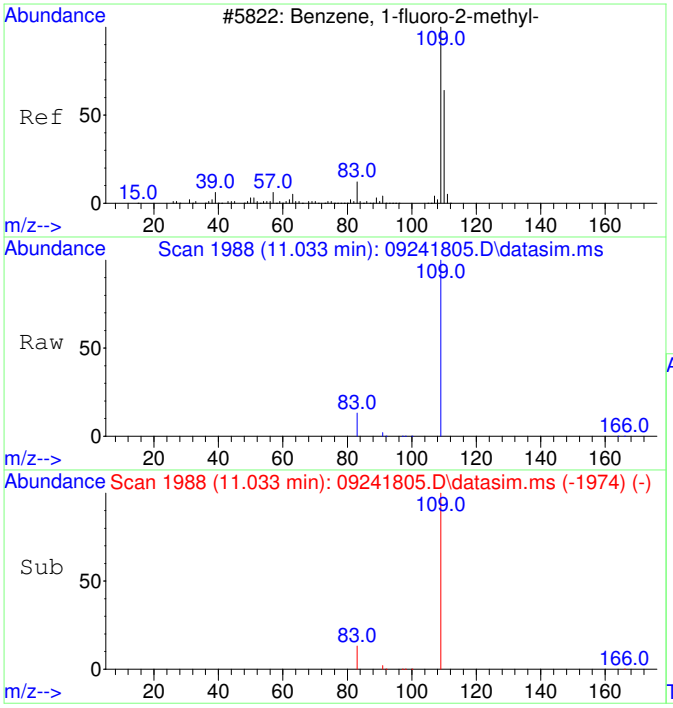
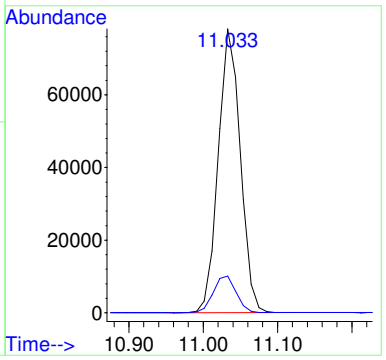
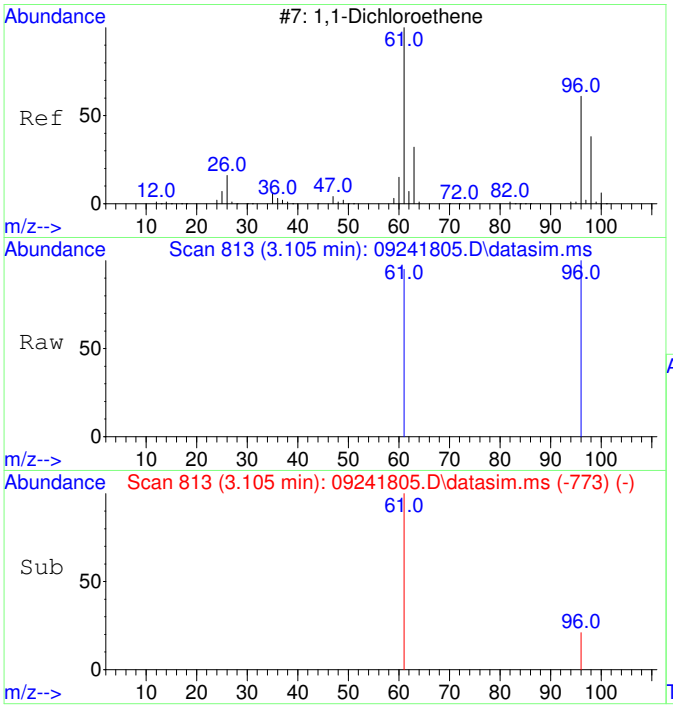


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:109 Resp: 160370

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	44.7

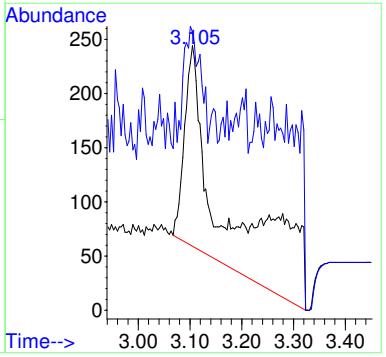




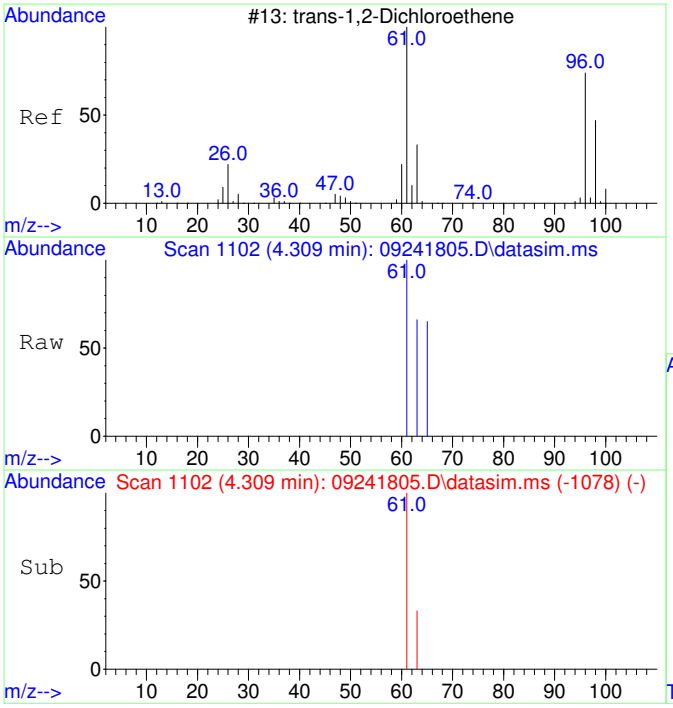
#2
1,1-Dichloroethene
Concen: 146.56 ug/L
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 985

Ion	Ratio	Lower	Upper
61	100		
96	23.4	28.7	88.7#



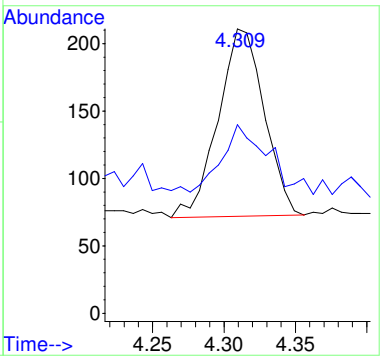
Before MI:
IMPROPER
BASELINE

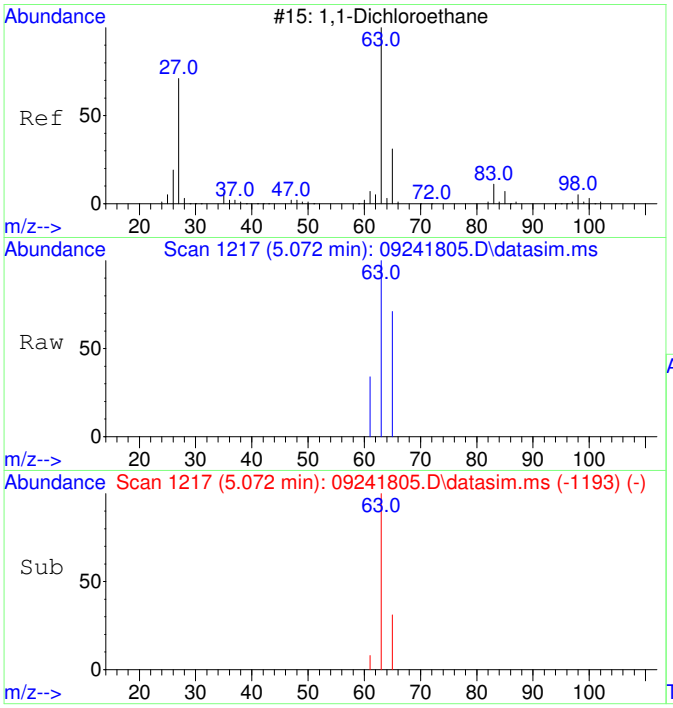


#3
trans-1,2-Dichloroethene
Concen: 43.65 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 313

Ion	Ratio	Lower	Upper
61	100		
63	33.2	2.0	62.0

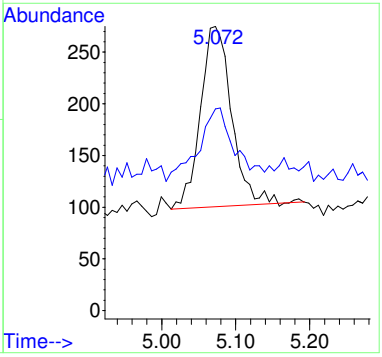


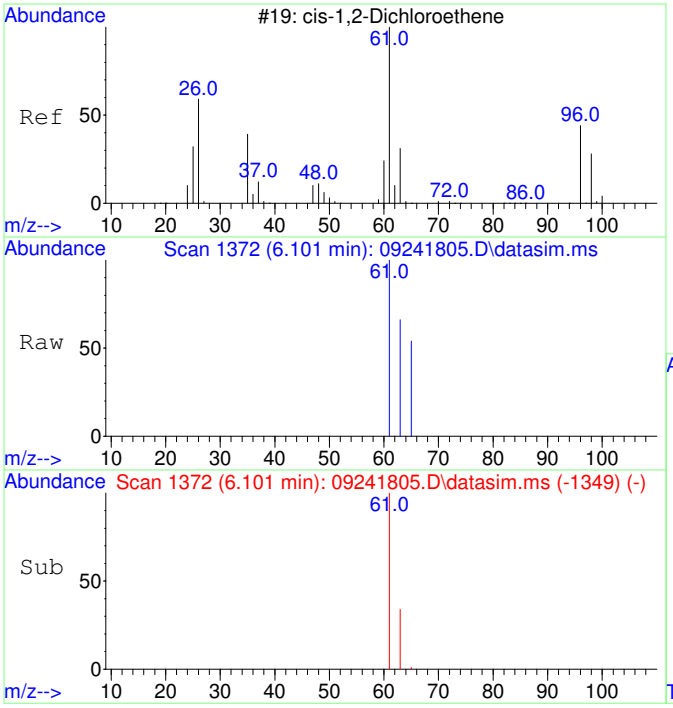


#4
1,1-Dichloroethane
Concen: 57.48 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 63 Resp: 513

Ion	Ratio	Lower	Upper
63	100		
65	47.4	1.5	61.5

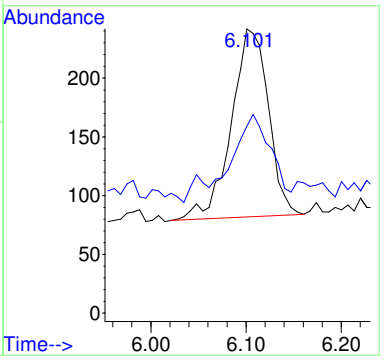


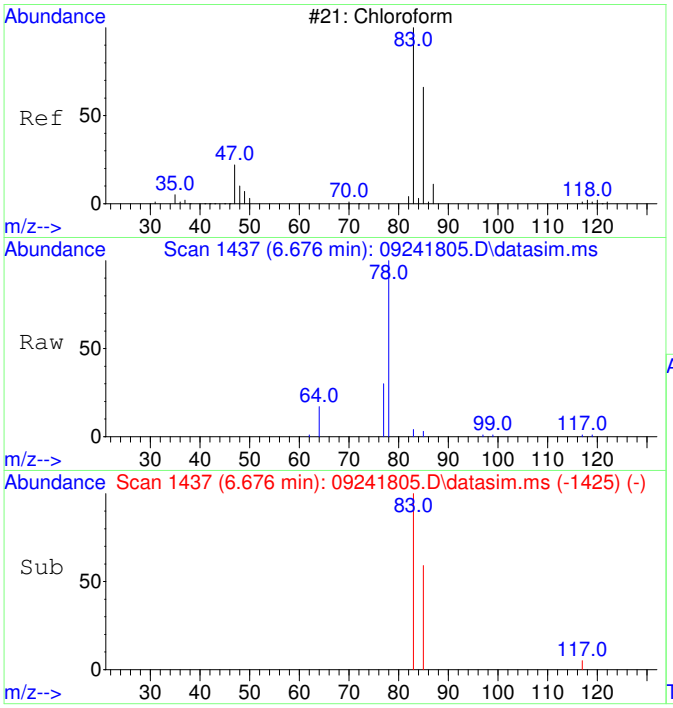


#5
cis-1,2-Dichloroethene
Concen: 49.40 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 435

Ion	Ratio	Lower	Upper
61	100		
63	42.3	2.2	62.2

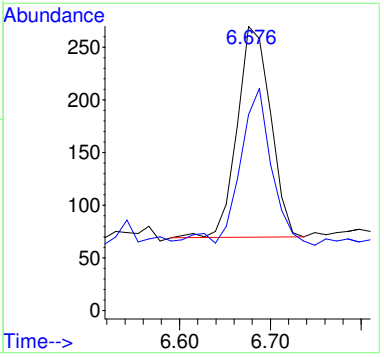


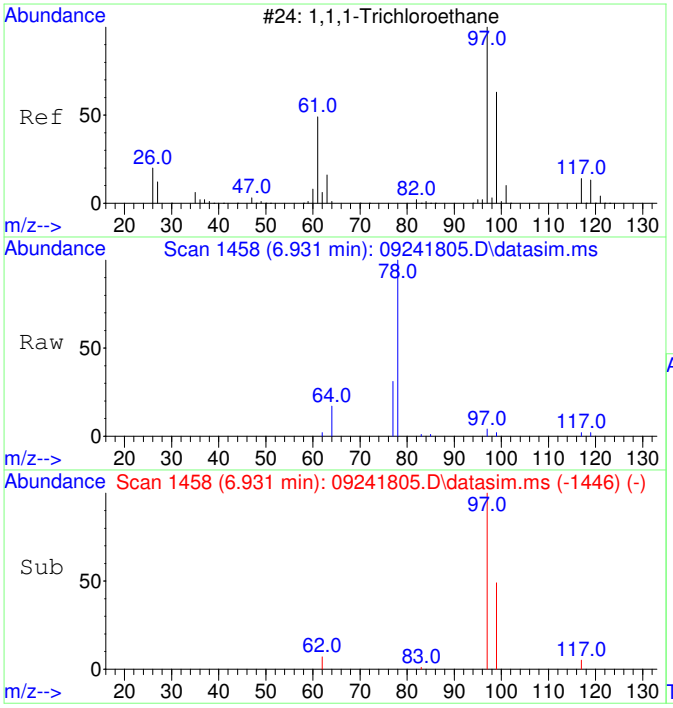


#6
Chloroform
Concen: 53.90 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 511

Ion	Ratio	Lower	Upper
83	100		
85	72.4	34.8	94.8

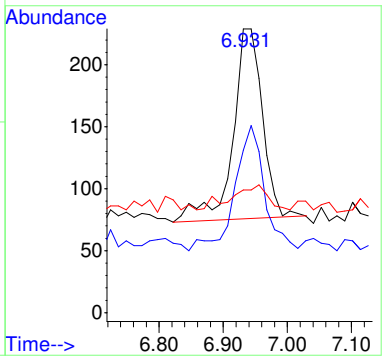


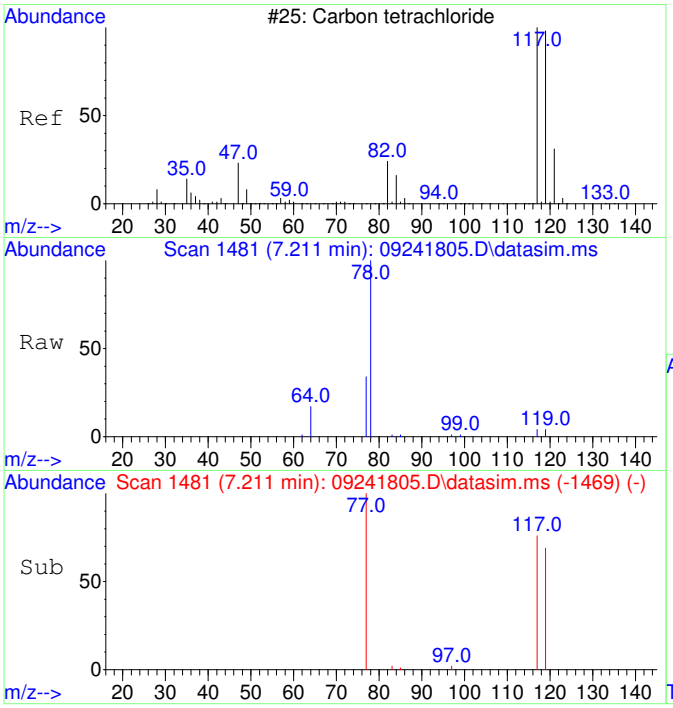


#7
1,1,1-Trichloroethane
Concen: 52.72 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 492

Ion	Ratio	Lower	Upper
97	100		
99	0.0	34.6	94.6#
117	0.0	0.0	42.9

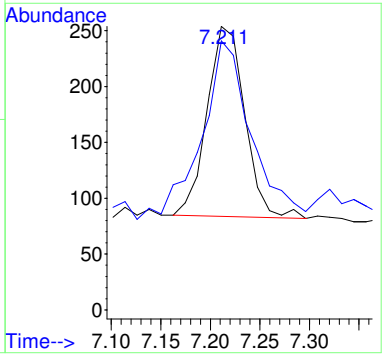


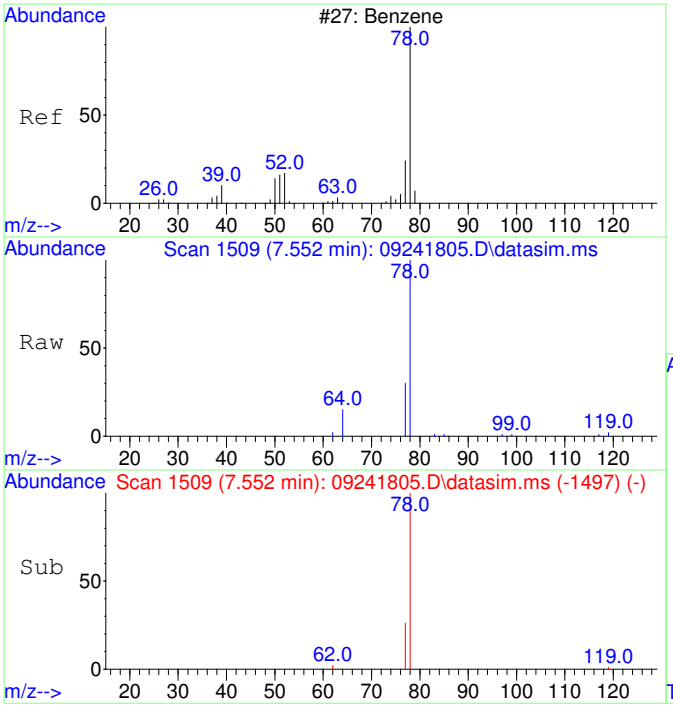


#8
Carbon tetrachloride
Concen: 50.91 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:117 Resp: 450

Ion	Ratio	Lower	Upper
117	100		
119	124.4	65.9	125.9

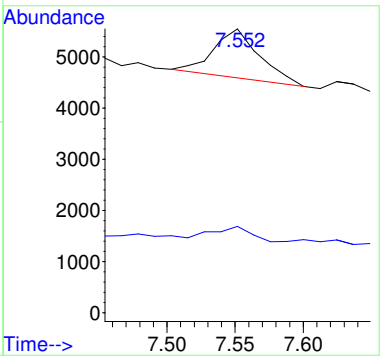


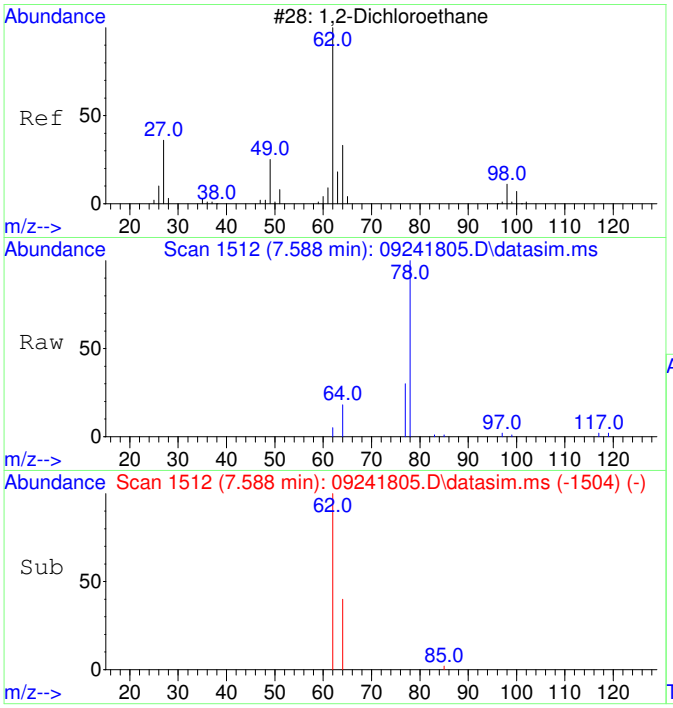


#9
Benzene
Concen: 81.91 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 78 Resp: 2109

Ion	Ratio	Lower	Upper
78	100		
77	30.3	0.0	53.0

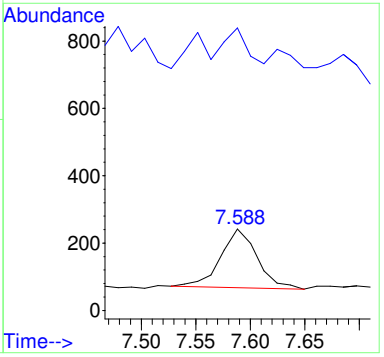


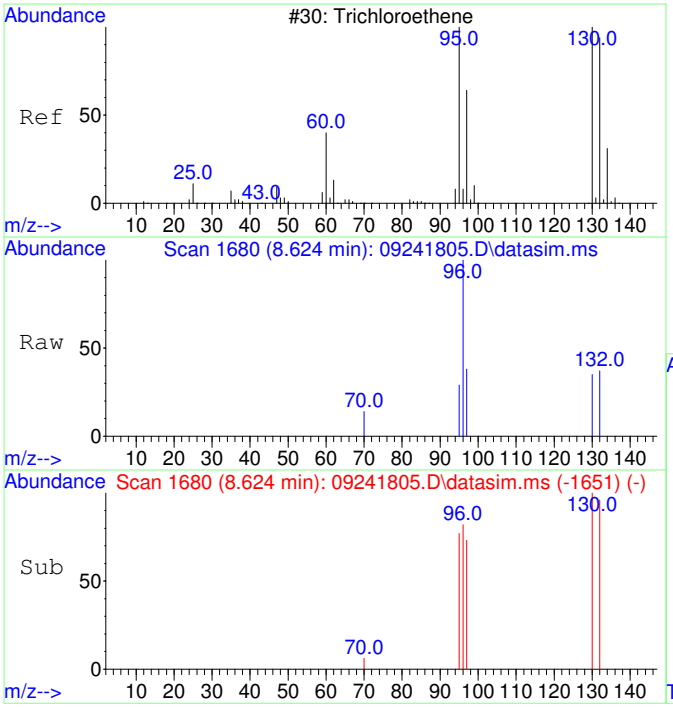


#10
1,2-Dichloroethane
Concen: 48.56 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 62 Resp: 403

Ion	Ratio	Lower	Upper
62	100		
64	44.7	2.3	62.3

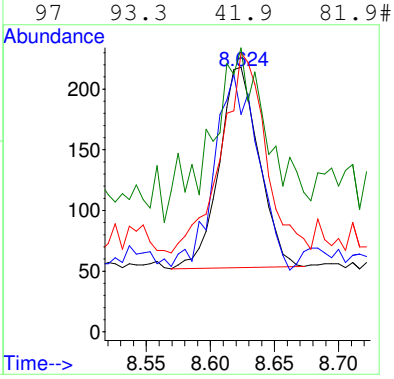


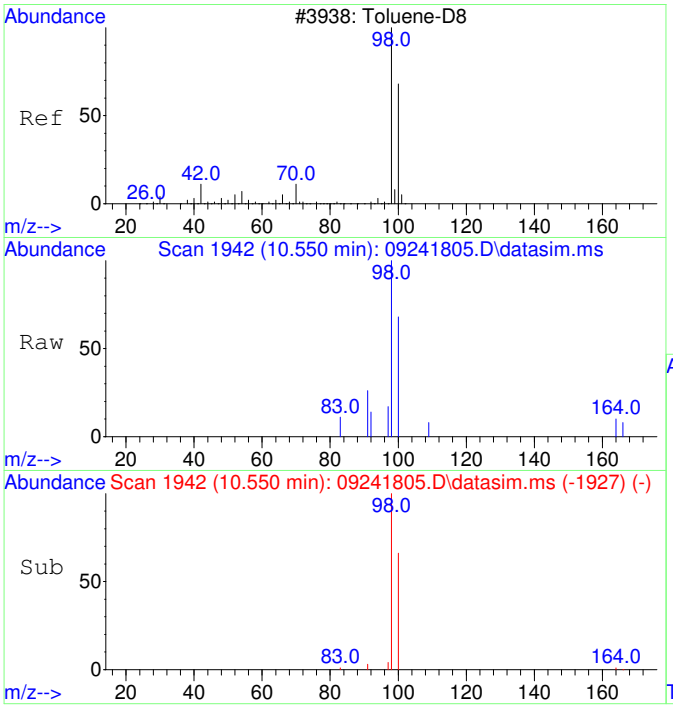


#11
Trichloroethene
Concen: 50.45 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:130 Resp: 357

Ion	Ratio	Lower	Upper
130	100		
95	107.8	66.0	126.0
132	111.5	78.8	118.8
97	93.3	41.9	81.9#

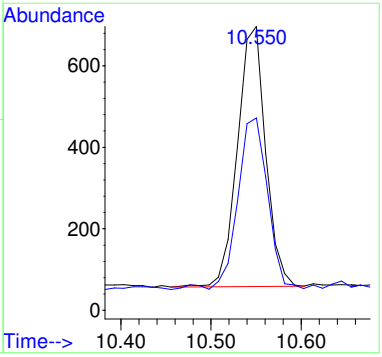


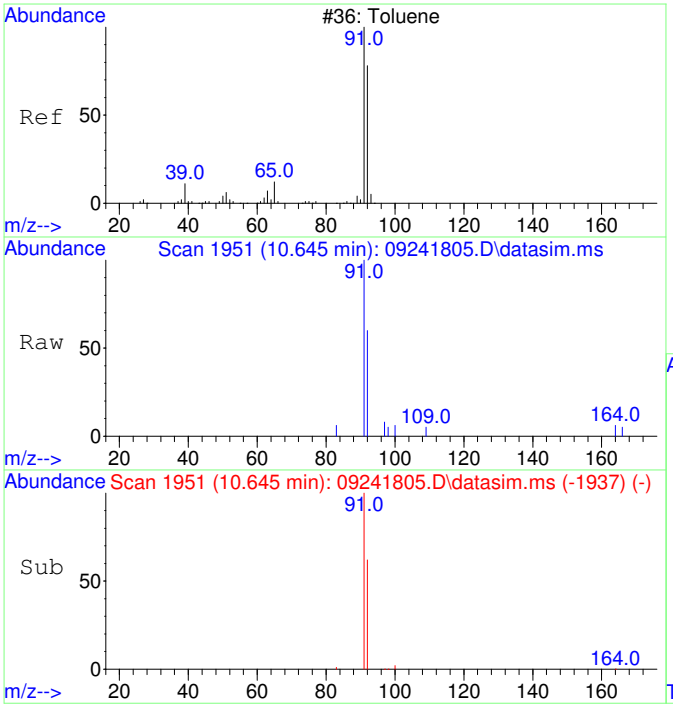


#12
Toluene-d8
Concen: 53.36 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 98 Resp: 1390

Ion	Ratio	Lower	Upper
98	100		
100	69.8	38.7	98.7

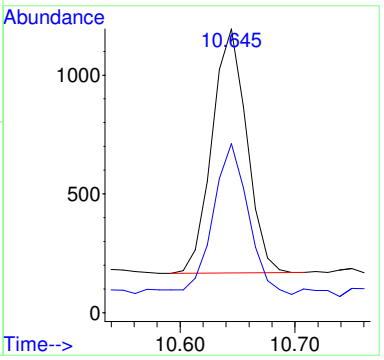


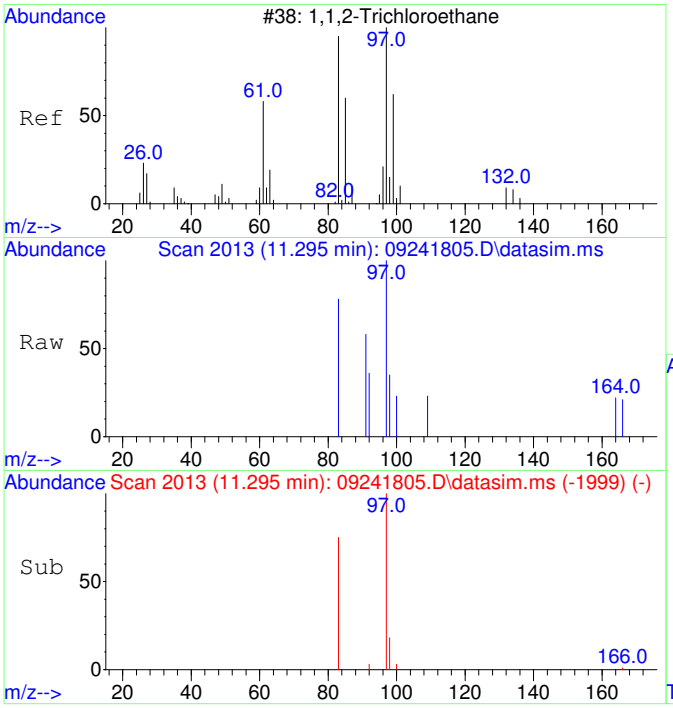


#13
Toluene
Concen: 61.70 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2155

Ion	Ratio	Lower	Upper
91	100		
92	63.6	30.0	90.0

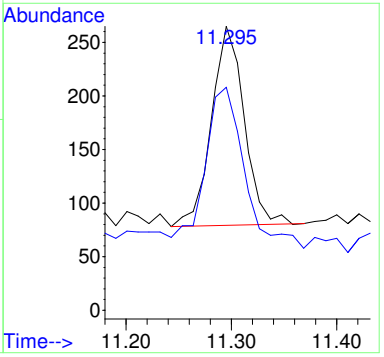


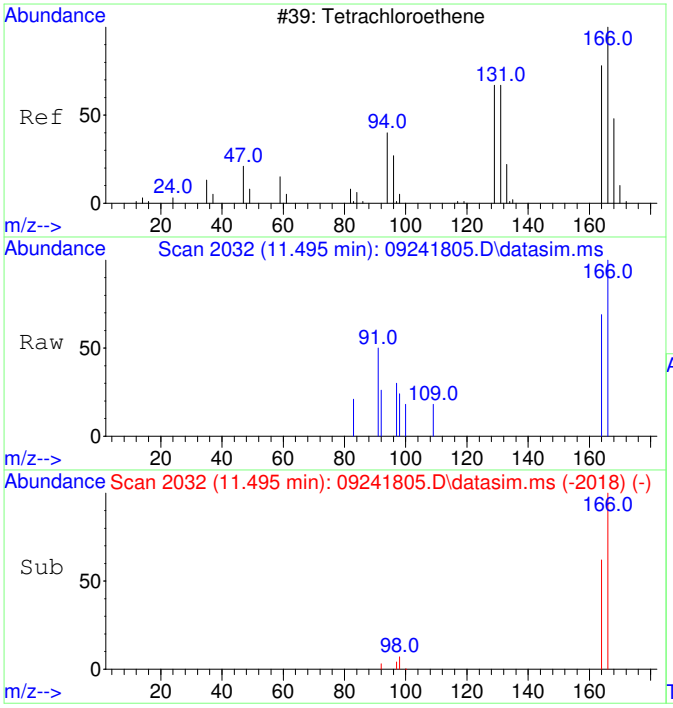


#14
1,1,2-Trichloroethane
Concen: 55.69 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
83	97.0	53.4	113.4

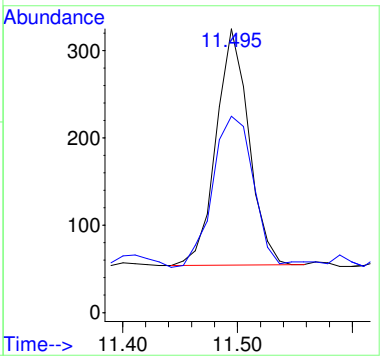


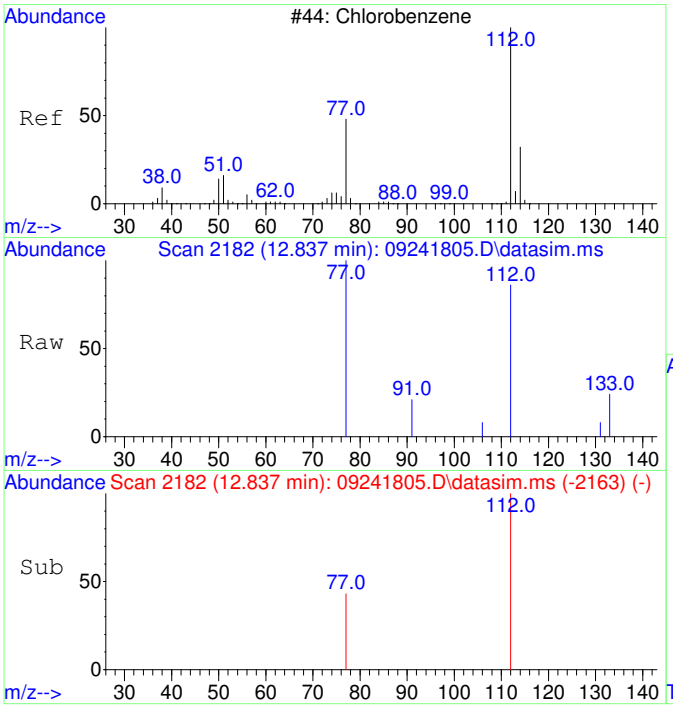


#15
Tetrachloroethene
Concen: 54.47 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:166 Resp: 536

Ion	Ratio	Lower	Upper
166	100		
164	79.9	47.8	107.8

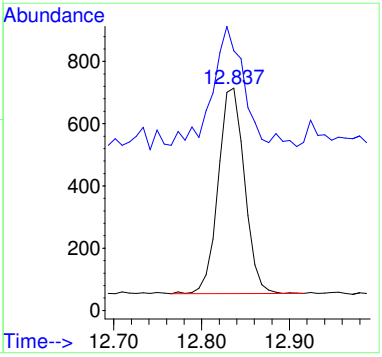


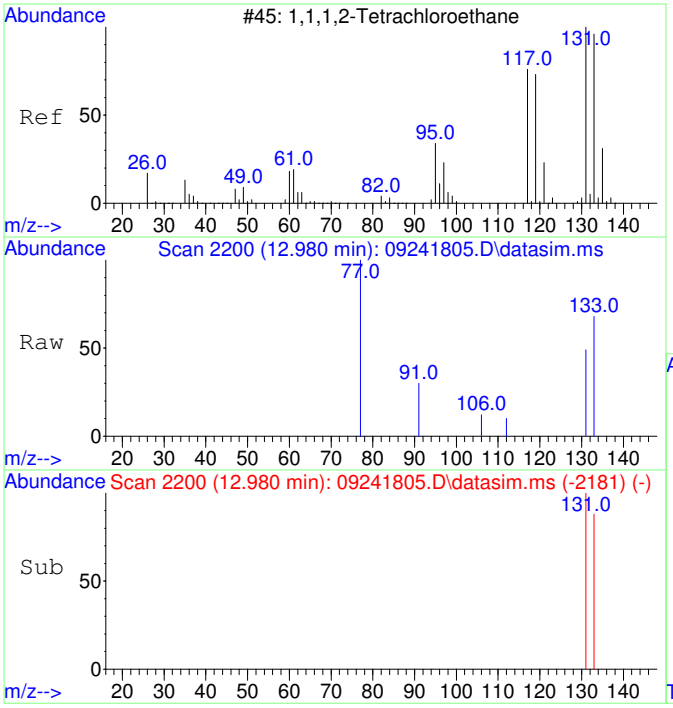


#16
Chlorobenzene
Concen: 54.96 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:112 Resp: 1370

Ion	Ratio	Lower	Upper
112	100		
77	68.2	28.1	88.1

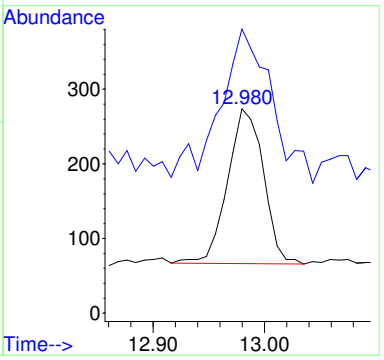


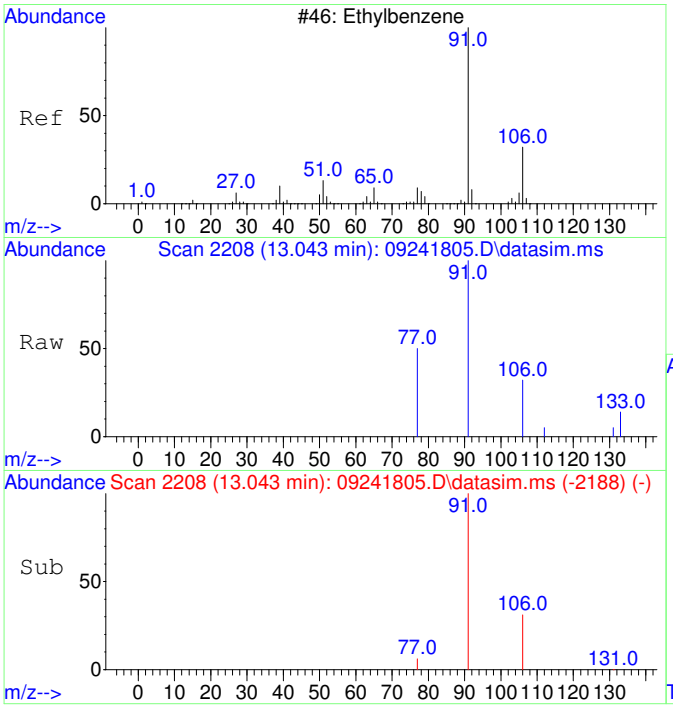


#17
1,1,1,2-Tetrachloroethane
Concen: 54.97 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:131 Resp: 465

Ion	Ratio	Lower	Upper
131	100		
133	145.4	66.2	126.2#

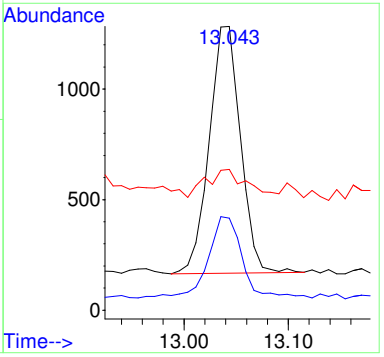


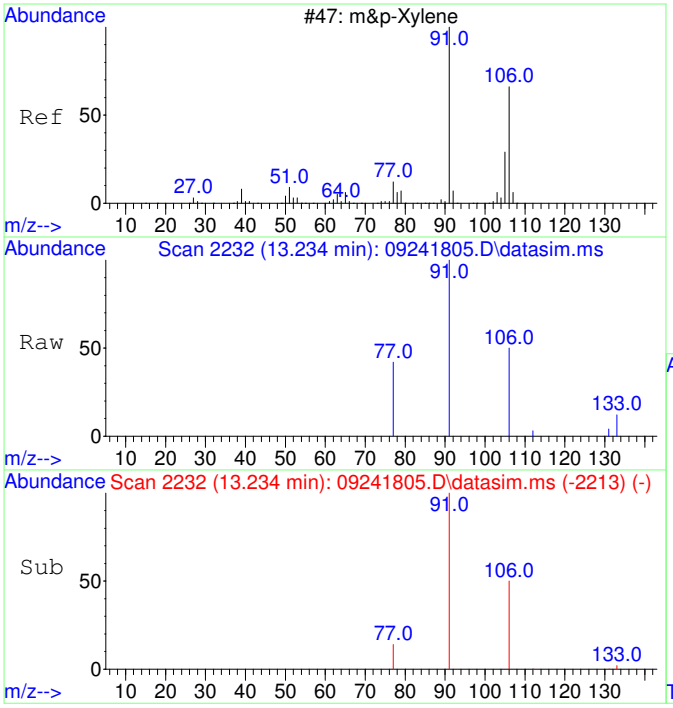


#18
Ethylbenzene
Concen: 55.31 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2318

Ion	Ratio	Lower	Upper
91	100		
106	35.7	2.8	62.8
77	15.4	0.0	38.6

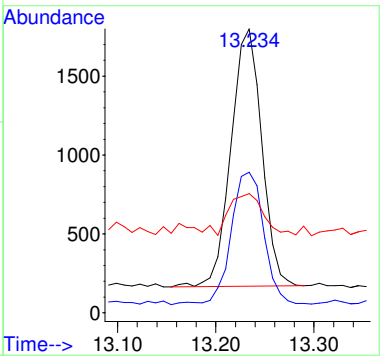


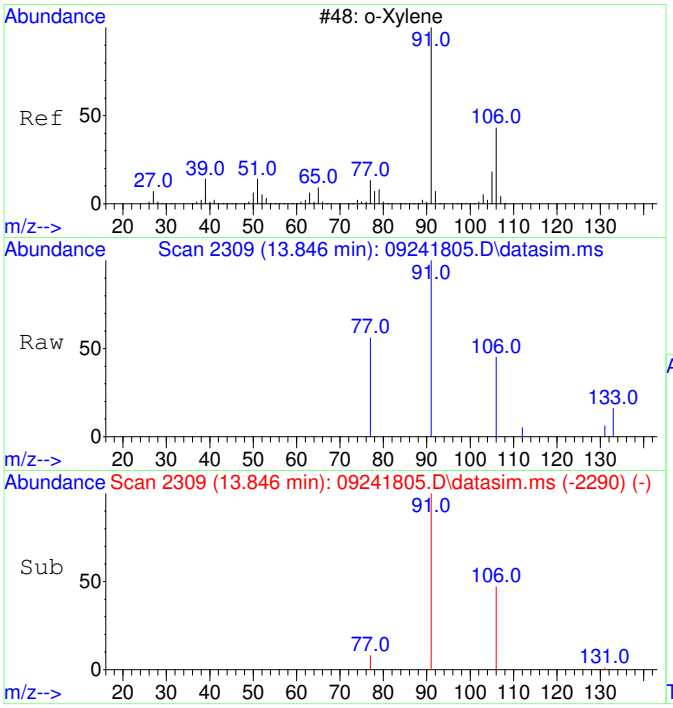


#19
m&p-Xylene
Concen: 109.37 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 3538

Ion	Ratio	Lower	Upper
91	100		
106	54.7	21.2	81.2
77	17.8	0.0	42.9

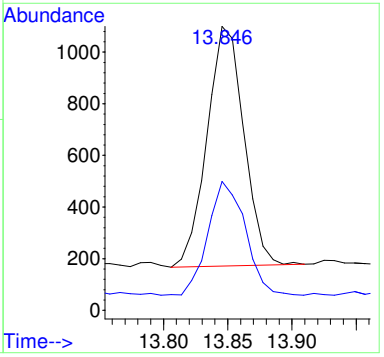


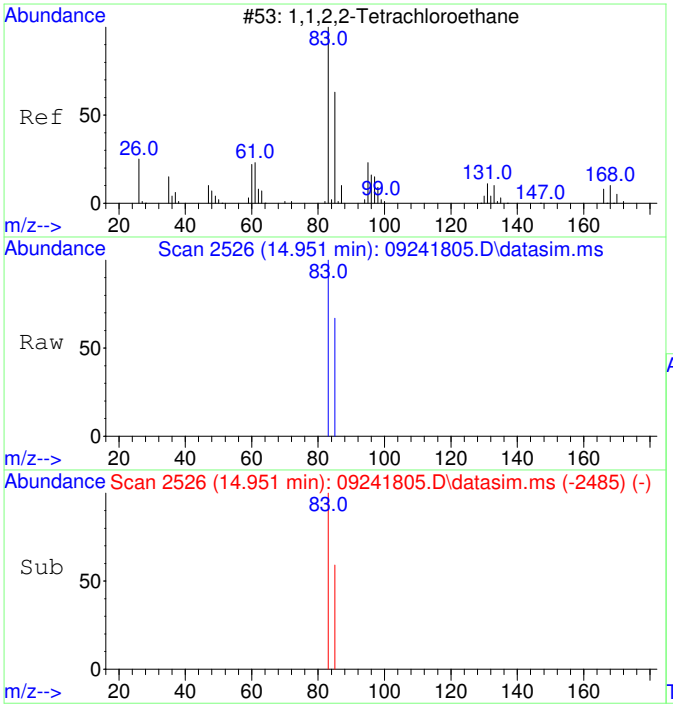


#20
o-Xylene
Concen: 54.06 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 1852

Ion	Ratio	Lower	Upper
91	100		
106	47.9	18.3	78.3

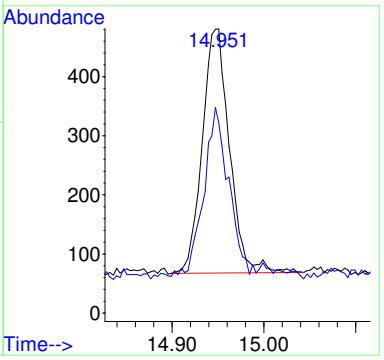


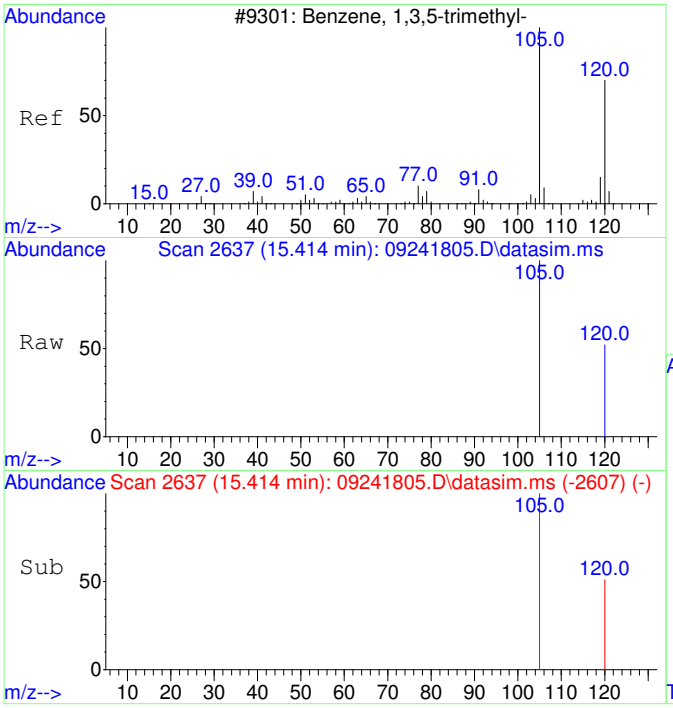


#21
1,1,2,2-Tetrachloroethane
Concen: 57.81 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 853

Ion	Ratio	Lower	Upper
83	100		
85	63.4	34.4	94.4

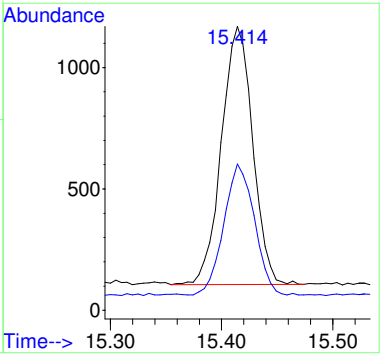


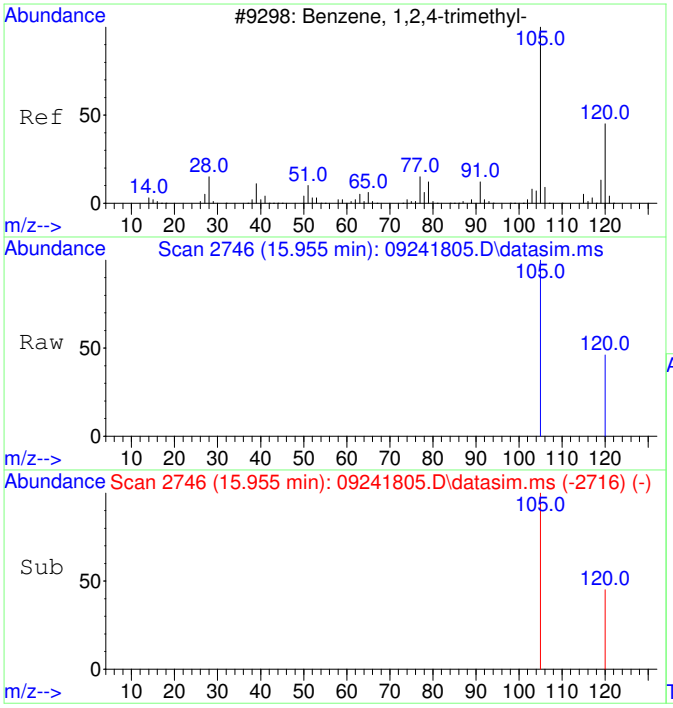


#22
1,3,5-Trimethylbenzene
Concen: 53.55 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 2076

Ion	Ratio	Lower	Upper
105	100		
120	49.8	19.1	79.1

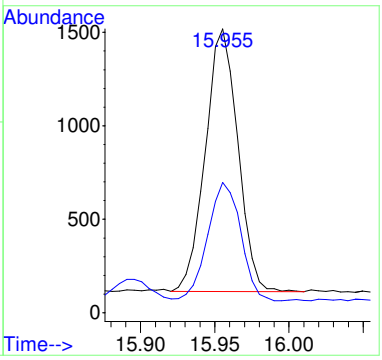


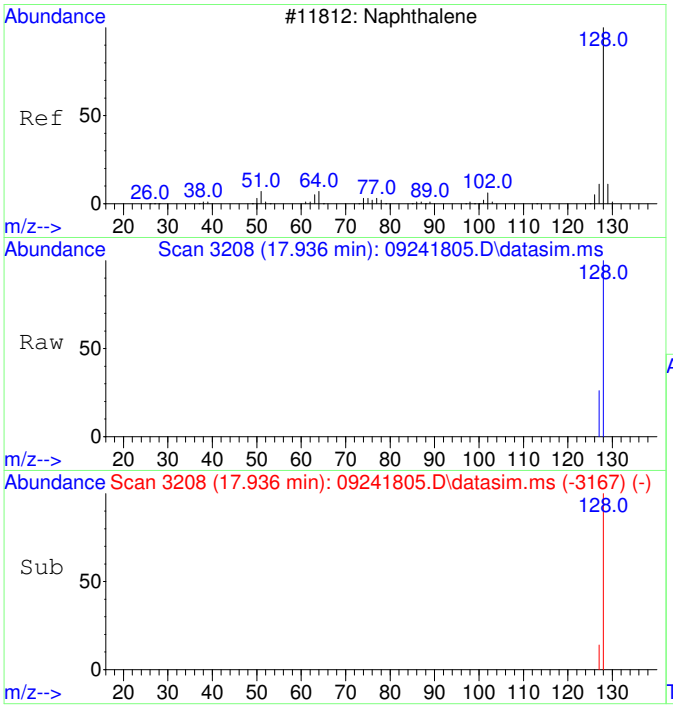


#23
1,2,4-Trimethylbenzene
Concen: 55.09 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 2136

Ion	Ratio	Lower	Upper
105	100		
120	44.9	15.5	75.5

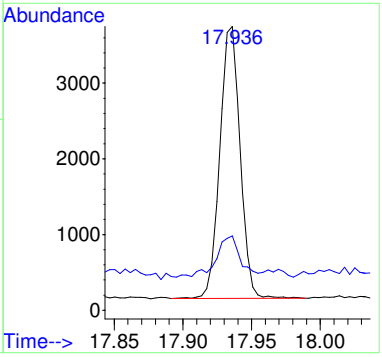


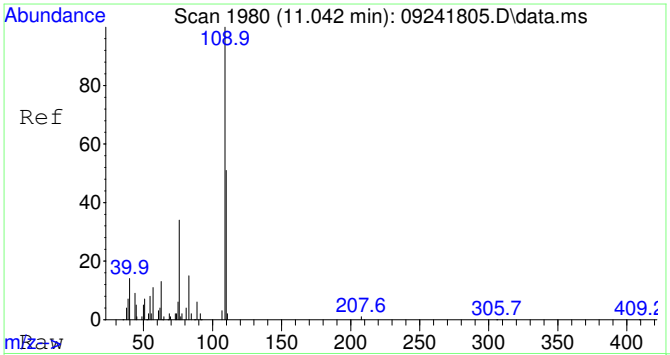


#24
Naphthalene
Concen: 57.66 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:128 Resp: 3669

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	42.5

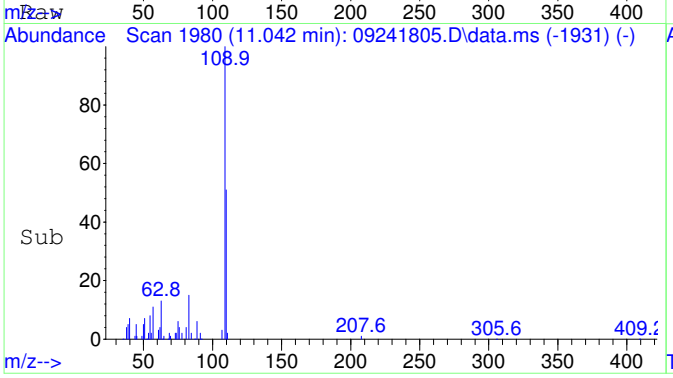


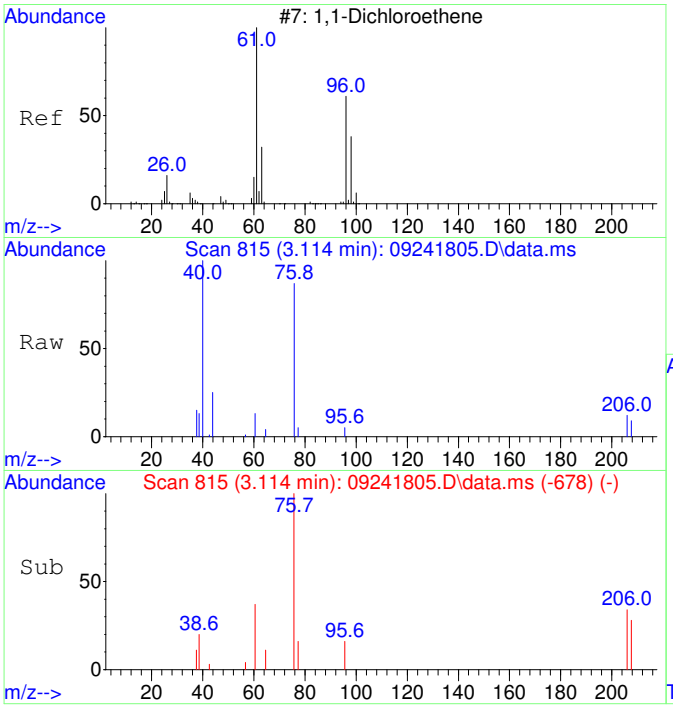


#25
2-Fluorotoluene SCAN
Concen: 4773.27 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:109 Resp: 89200

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	45.7

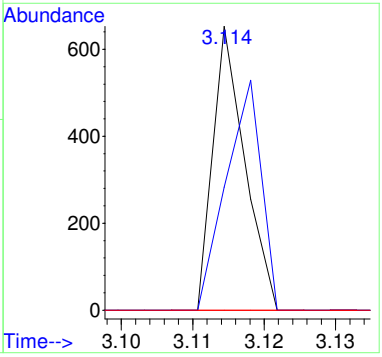


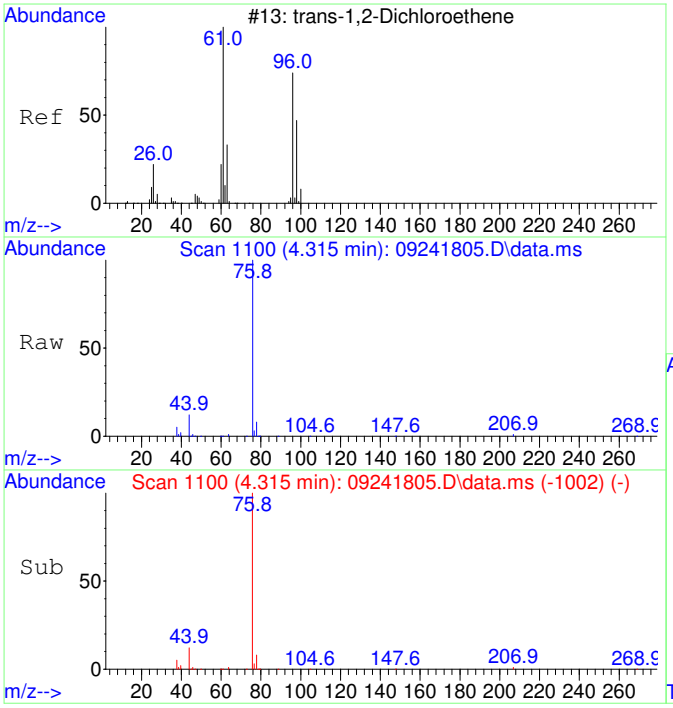


#26
1,1-Dichloroethene SCAN
Concen: 43.32 ug/L
RT: 3.114 min Scan# 815
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 202

Ion	Ratio	Lower	Upper
61	100		
96	89.6	23.8	83.8#
98	0.0	8.8	68.8#

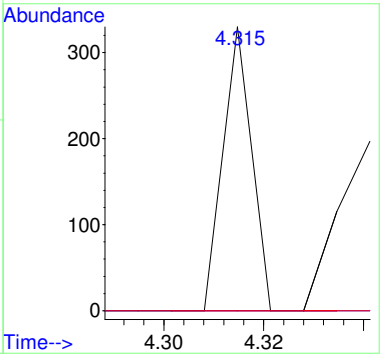


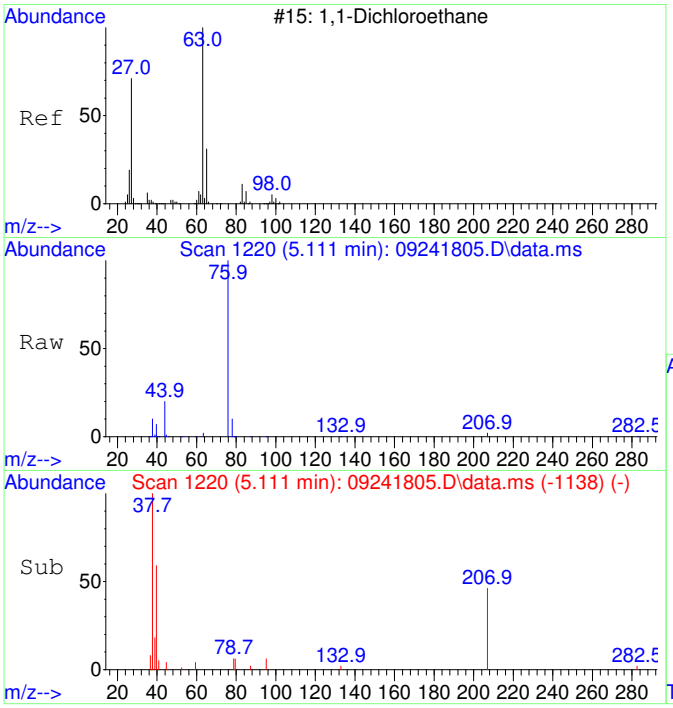


#27
trans-1,2-Dichloroethene SCAN
Concen: 24.13 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 131

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	0.0	12.7	72.7#

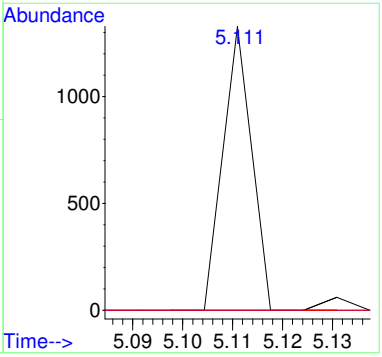


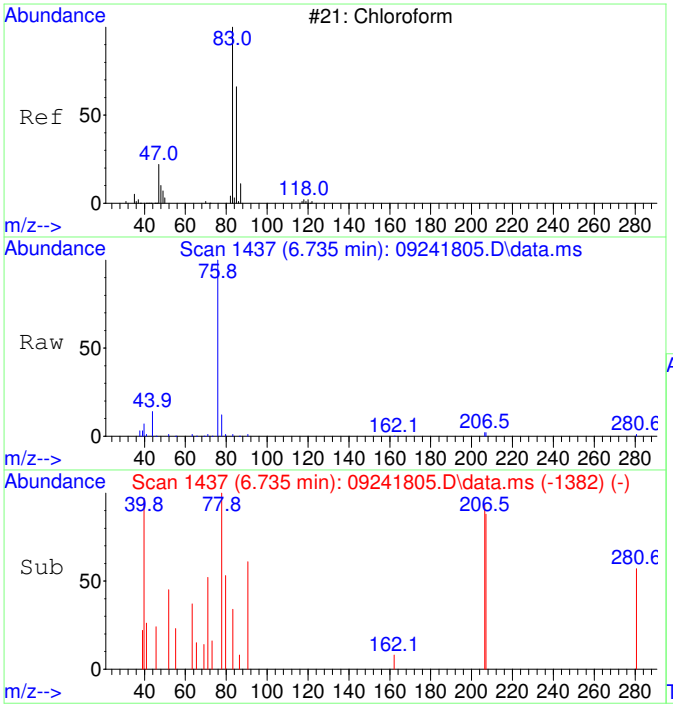


#28
1,1-Dichloroethane SCAN
Concen: 76.60 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.046 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 63 Resp: 529

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

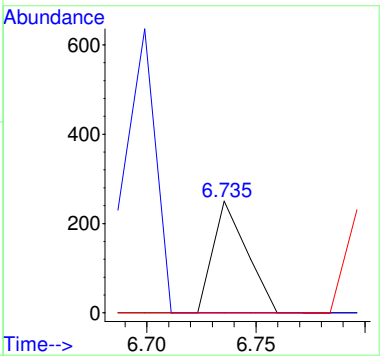


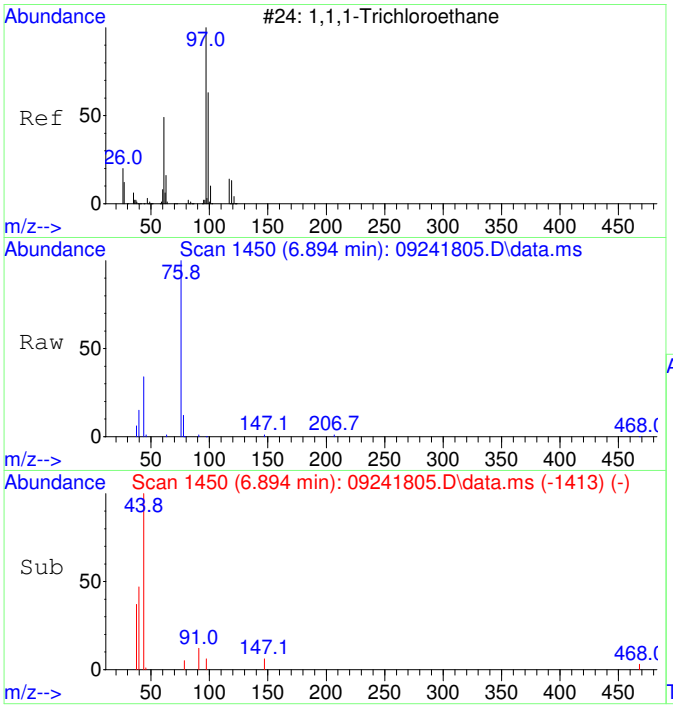


#30
Chloroform SCAN
Concen: 36.83 ug/L
RT: 6.735 min Scan# 1437
Delta R.T. 0.049 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 270

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

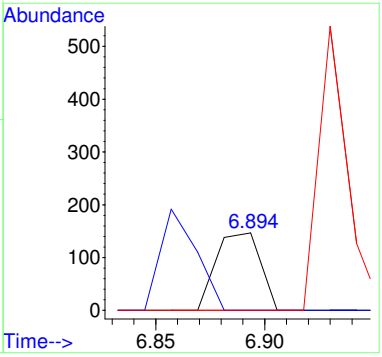


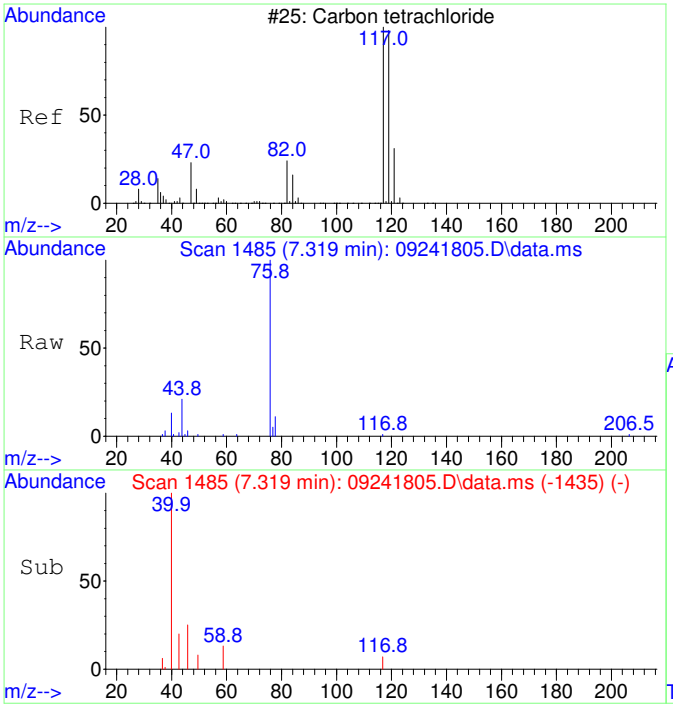


#31
1,1,1-Trichloroethane SCAN
Concen: 31.87 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.049 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 208

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

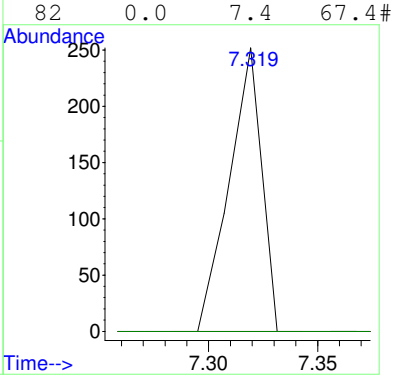


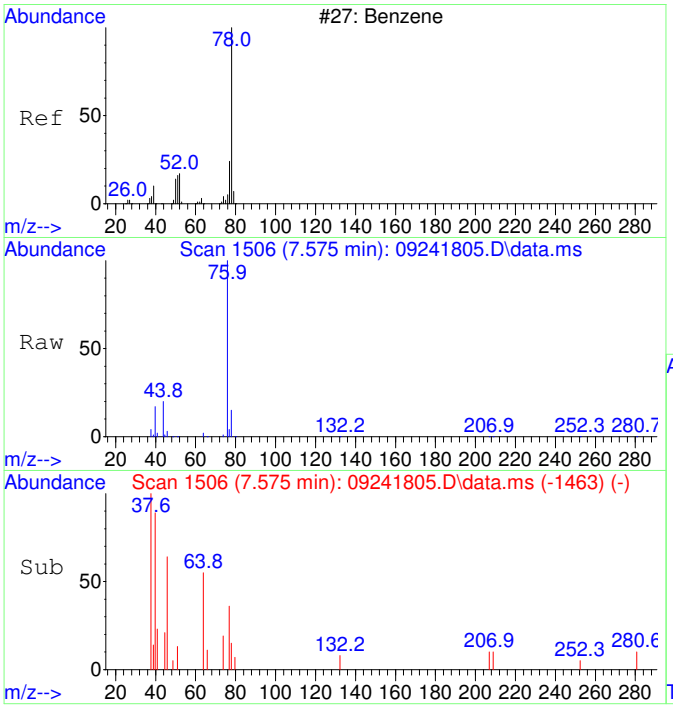


#32
Carbon tetrachloride SCAN
Concen: 40.59 ug/L
RT: 7.319 min Scan# 1485
Delta R.T. 0.109 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:117 Resp: 261

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

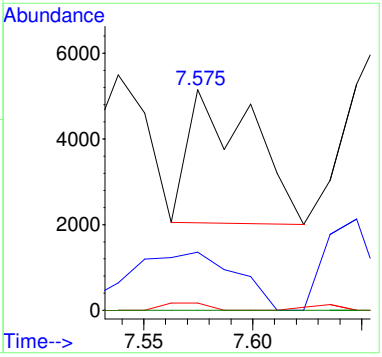


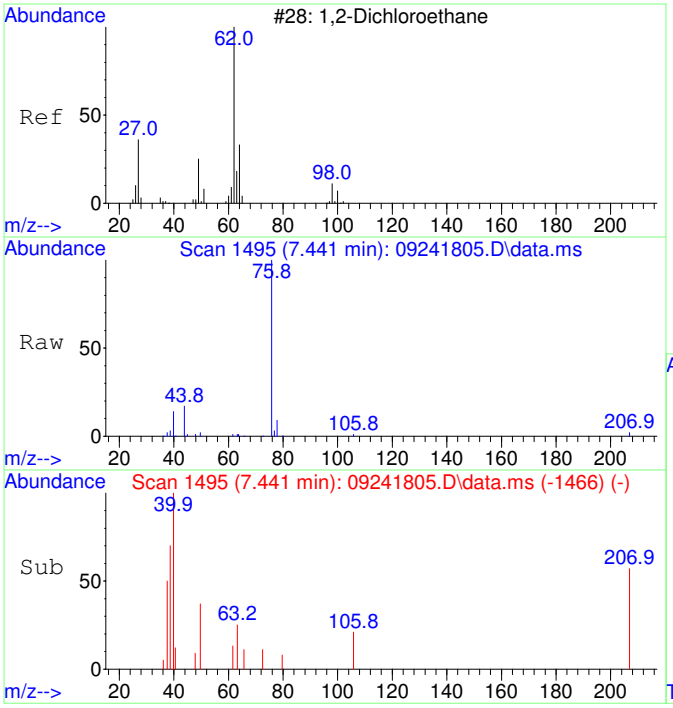


#33
Benzene SCAN
Concen: 329.82 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.024 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 78 Resp: 6419

Ion	Ratio	Lower	Upper
78	100		
77	73.5	3.0	63.0#
51	3.8	0.0	56.4
52	0.0	0.0	48.0

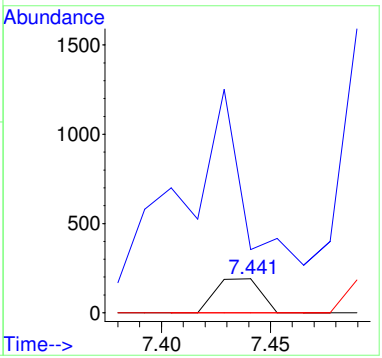


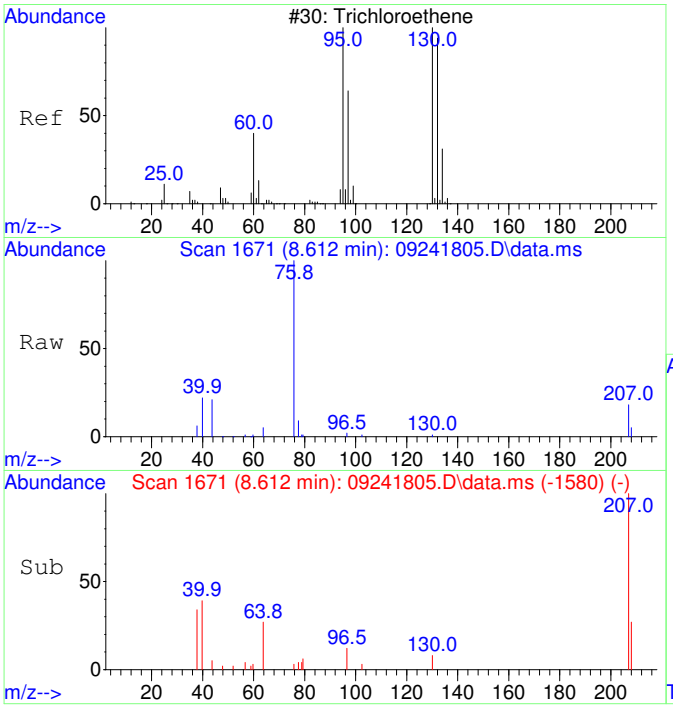


#34
1,2-Dichloroethane SCAN
Concen: 41.58 ug/L
RT: 7.441 min Scan# 1495
Delta R.T. -0.146 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 62 Resp: 276

Ion	Ratio	Lower	Upper
62	100		
64	680.1	1.2	61.2#
49	0.0	10.4	70.4#

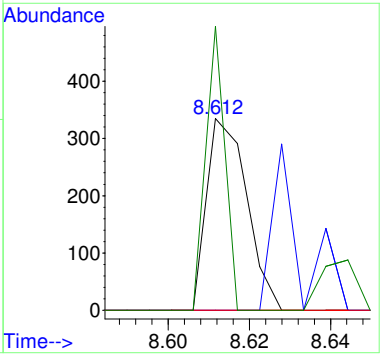


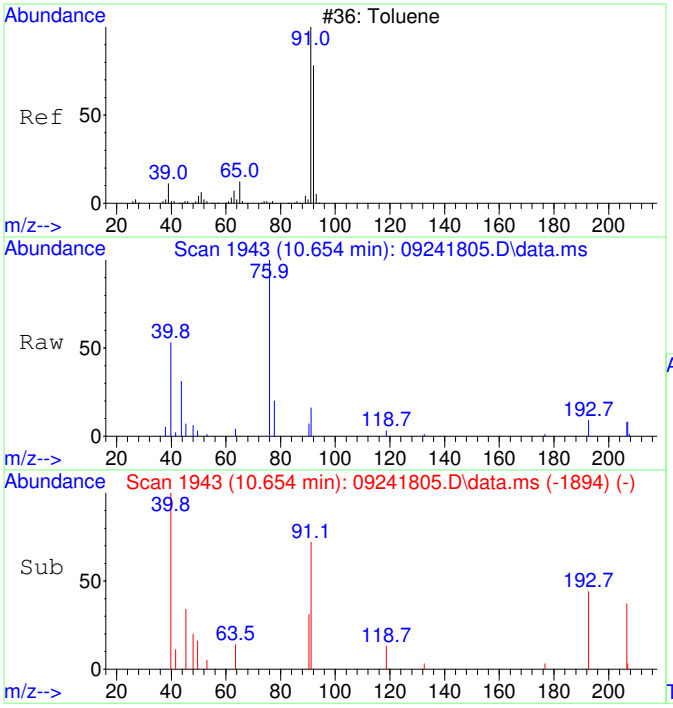


#35
Trichloroethene SCAN
Concen: 48.08 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:130 Resp: 229

Ion	Ratio	Lower	Upper
130	100		
95	0.0	70.5	130.5#
132	0.0	63.8	123.8#
97	70.7	34.8	94.8

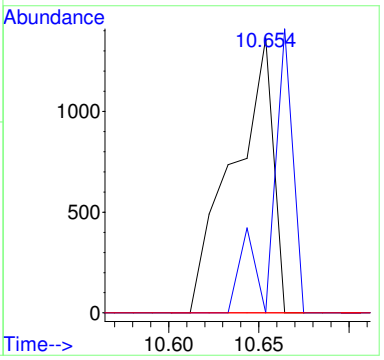


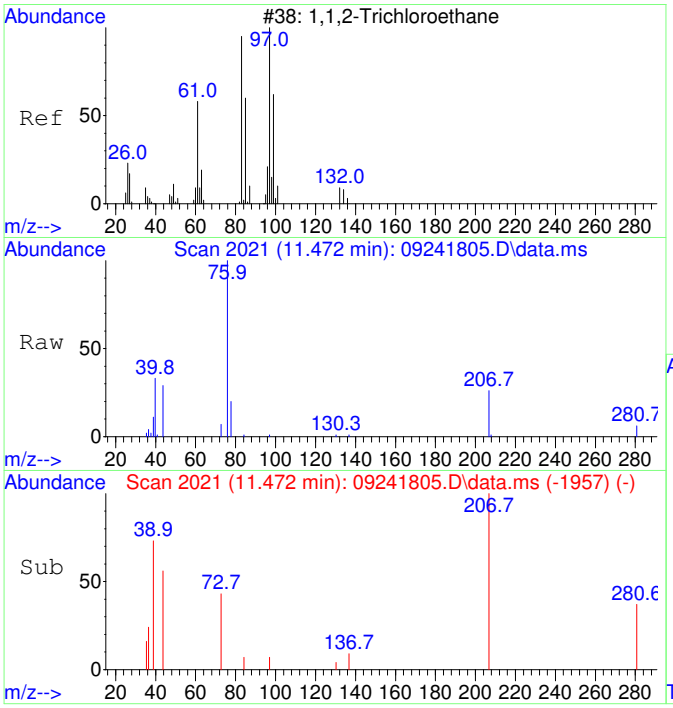


#37
Toluene SCAN
Concen: 98.01 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2115

Ion	Ratio	Lower	Upper
91	100		
92	54.6	26.6	86.6
65	0.0	0.0	42.3

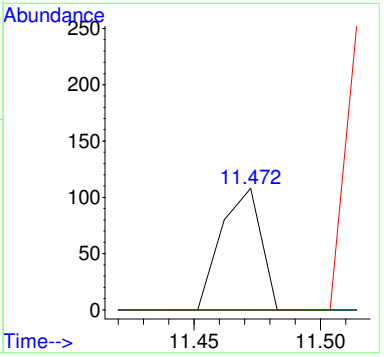


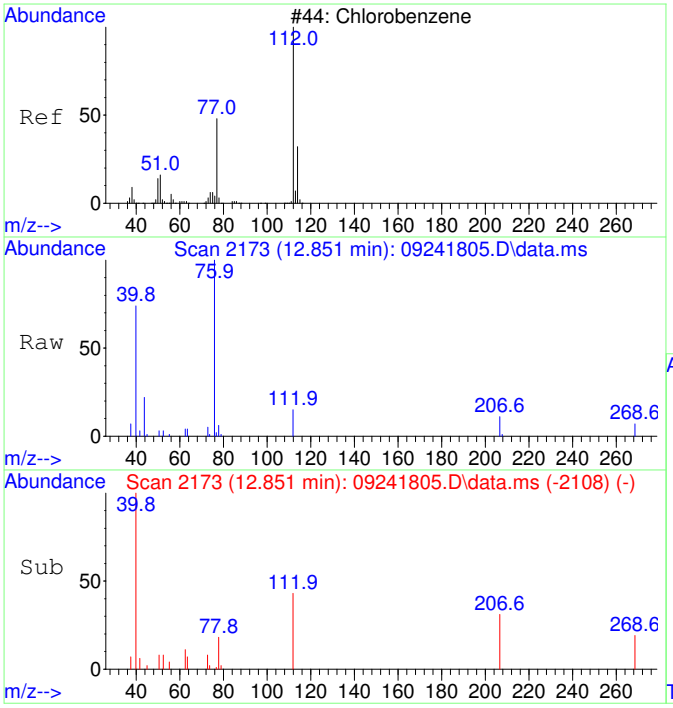


#38
1,1,2-Trichloroethane SCAN
Concen: 28.54 ug/L
RT: 11.472 min Scan# 2021
Delta R.T. 0.168 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 118

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

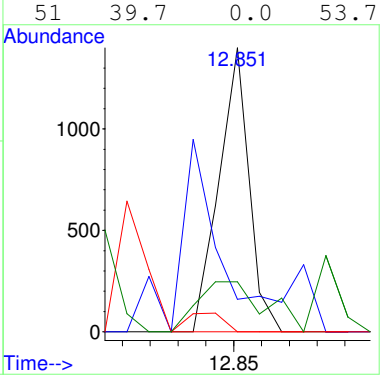


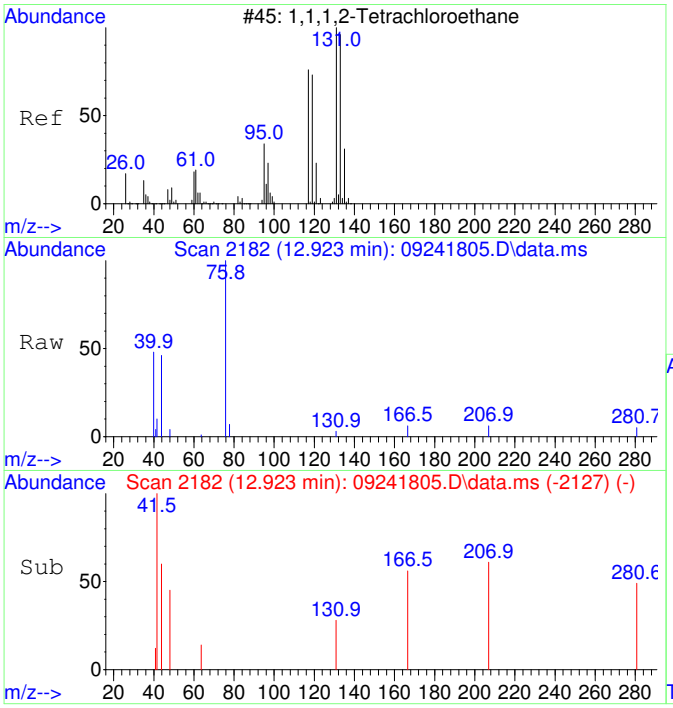


#40
Chlorobenzene SCAN
Concen: 80.67 ug/L
RT: 12.851 min Scan# 2173
Delta R.T. 0.016 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:112 Resp: 1056

Ion	Ratio	Lower	Upper
112	100		
77	110.6	28.4	88.4#
114	0.0	0.0	59.5
51	39.7	0.0	53.7

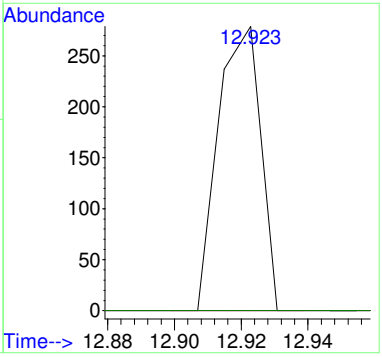


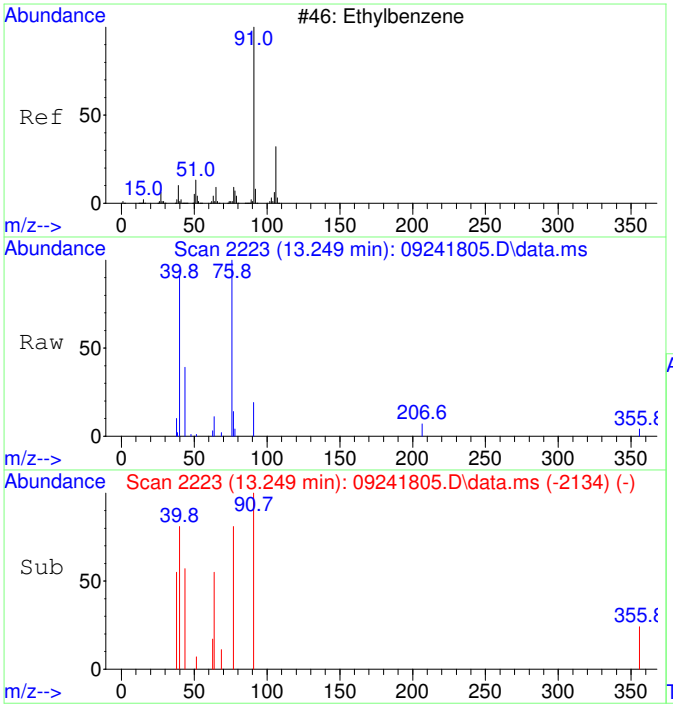


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 52.65 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. -0.064 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:131 Resp: 246

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

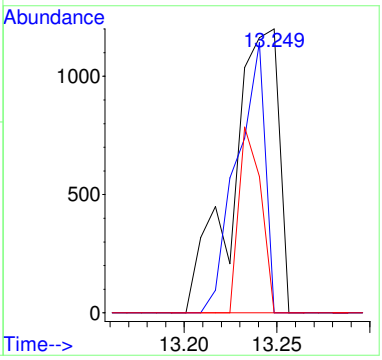


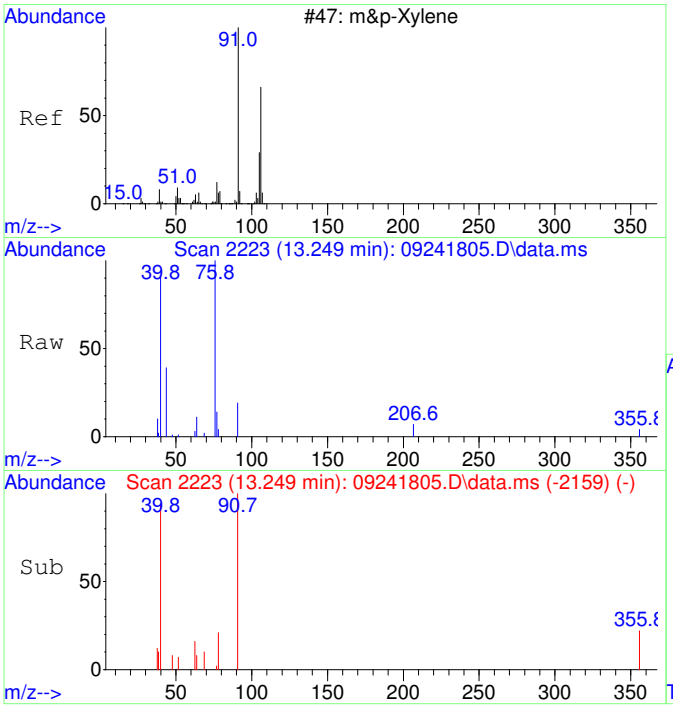


#42
Ethylbenzene SCAN
Concen: 83.16 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.207 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2086

Ion	Ratio	Lower	Upper
91	100		
106	58.2	3.2	63.2
51	31.2	0.0	40.1

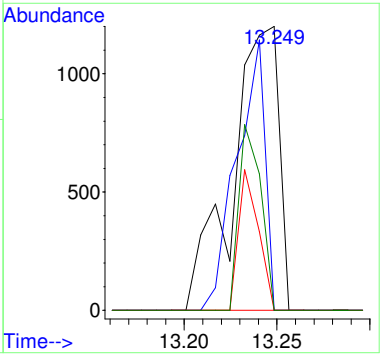


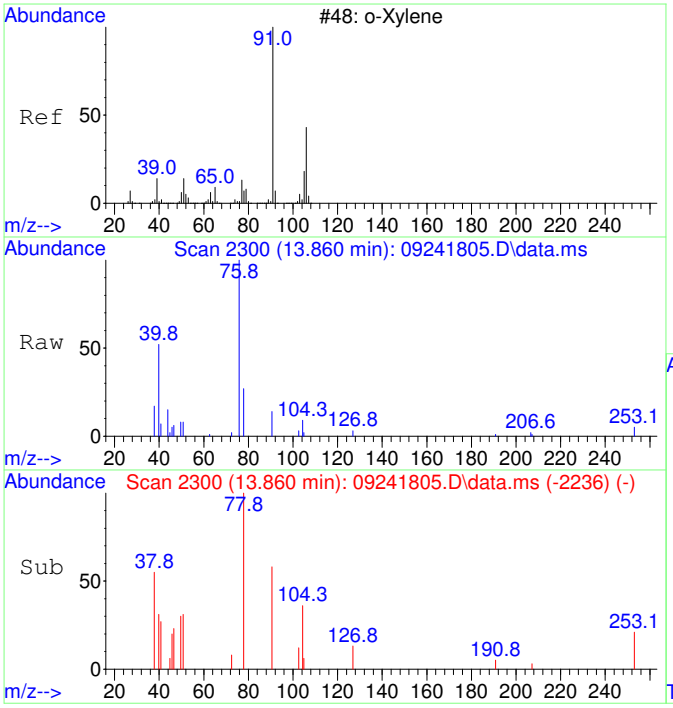


#43
m&p-Xylene SCAN
Concen: 59.91 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2086

Ion	Ratio	Lower	Upper
91	100		
106	58.2	20.1	80.1
105	21.2	0.0	51.1
51	31.2	0.0	40.7

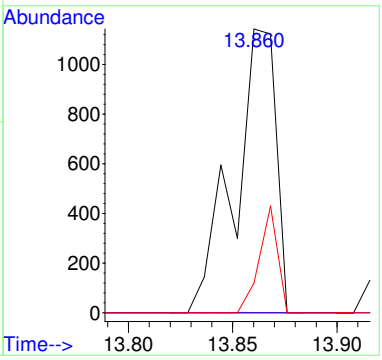


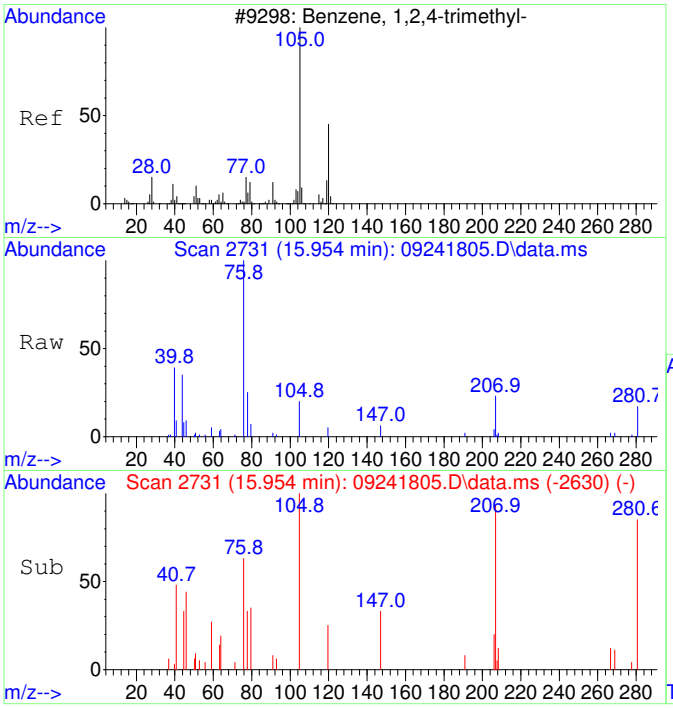


#44
o-Xylene SCAN
Concen: 79.48 ug/L
RT: 13.860 min Scan# 2300
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 1575

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	16.6	0.0	55.2

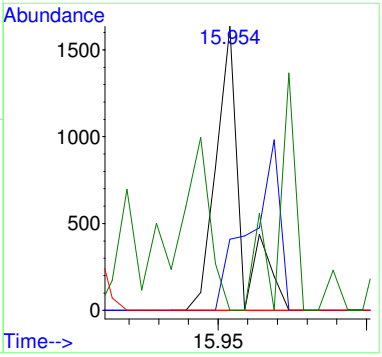


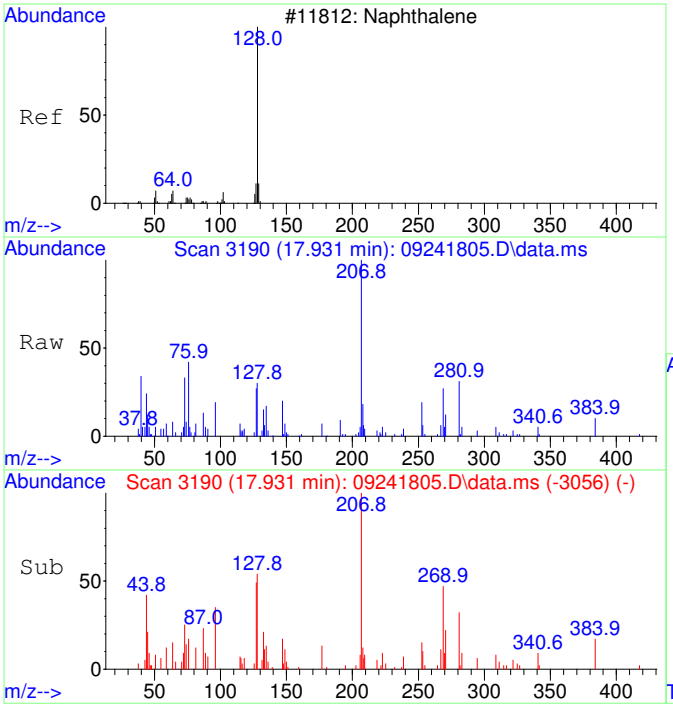


#47
1,2,4-Trimethylbenzene SCAN
Concen: 47.28 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 952

Ion	Ratio	Lower	Upper
105	100		
120	0.0	15.4	75.4#
119	0.0	0.0	41.7
77	43.5	0.0	42.0#

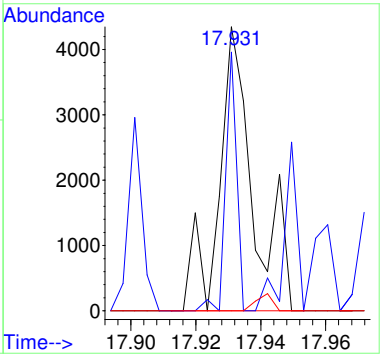




#48
Naphthalene SCAN
Concen: 111.90 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. -0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:128 Resp: 3215

Ion	Ratio	Lower	Upper
128	100		
127	28.6	0.0	43.9
129	0.0	0.0	40.5



B18I067-BLK1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241806.D
Acq On : 24 Sep 2018 14:14
InstName : AG5975C
Operator : RH
Sample : B18I067-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 16:31:15 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

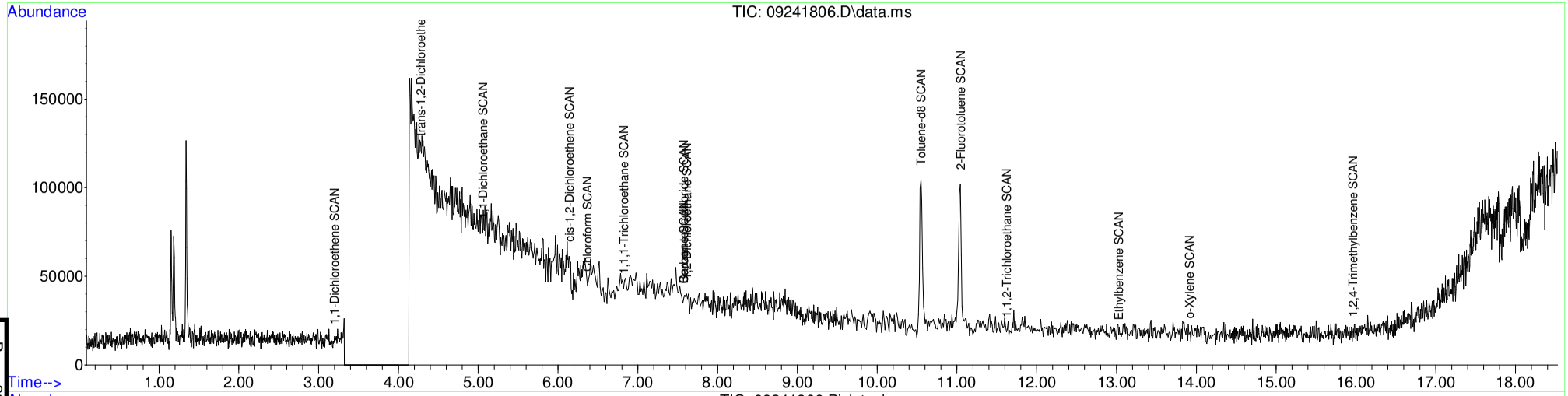
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	119726	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	102027	5246.38	ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.93%			
Target Compounds						Qvalue
25) 2-Fluorotoluene SCAN	11.042	109	68079	4879.77	ug/L	90
26) 1,1-Dichloroethene SCAN	3.196	61	89	25.57	ug/L #	30
27) trans-1,2-Dichloroethe...	4.282	61	176	43.43	ug/L #	23
28) 1,1-Dichloroethane SCAN	5.058	63	423	82.04	ug/L #	93
29) cis-1,2-Dichloroethene...	6.139	61	94	21.08	ug/L #	1
30) Chloroform SCAN	6.371	83	350	63.95	ug/L #	37
31) 1,1,1-Trichloroethane ...	6.821	97	382	78.40	ug/L #	26
32) Carbon tetrachloride SCAN	7.575	117	228	47.49	ug/L #	13
33) Benzene SCAN	7.575	78	8625	593.62	ug/L #	51
34) 1,2-Dichloroethane SCAN	7.611	62	216	43.59	ug/L #	39
36) Toluene-d8 SCAN	10.549	98	57906	4591.38	ug/L	96
38) 1,1,2-Trichloroethane ...	11.619	97	64	20.73	ug/L #	10
42) Ethylbenzene SCAN	13.026	91	413	22.05	ug/L #	35
44) o-Xylene SCAN	13.916	91	525	35.49	ug/L #	34
47) 1,2,4-Trimethylbenzene...	15.964	105	679	45.17	ug/L #	35

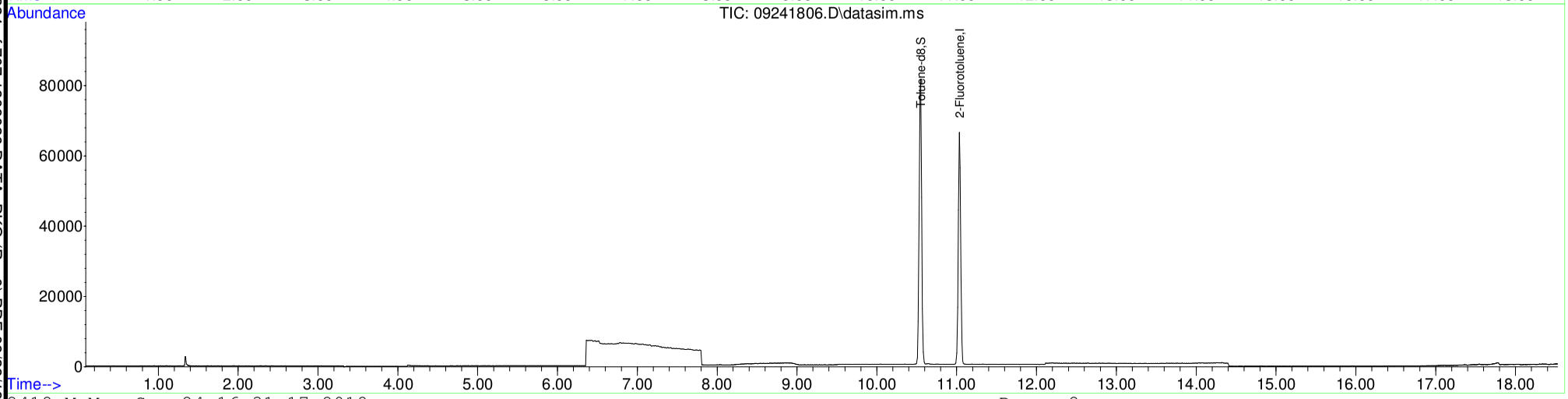
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241806.D
Acq On : 24 Sep 2018 14:14
InstName : AG5975C
Operator : RH
Sample : B18I067-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 16:31:15 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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B18I067-BS1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241807.D
Acq On : 24 Sep 2018 14:37
InstName : AG5975C
Operator : RH
Sample : B18I067-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 24 16:30:55 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

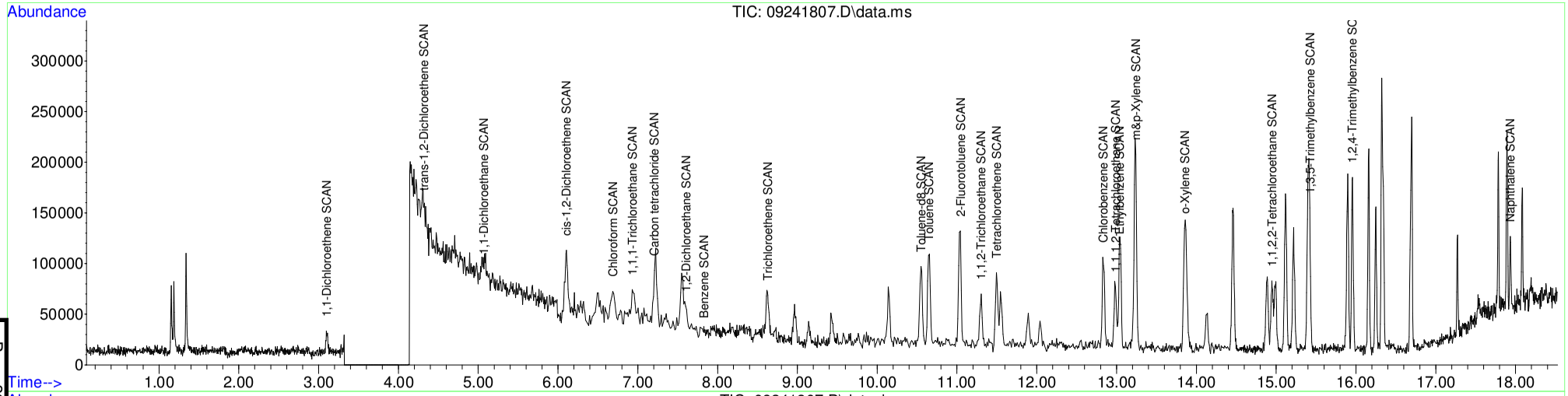
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	104099	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	90334	5342.42 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 106.85%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	22316	5115.39 ug/L	96
3] trans-1,2-Dichloroethene	4.309	61	21976	4721.09 ug/L	100
4] 1,1-Dichloroethane	5.072	63	34732	5994.81 ug/L	100
5] cis-1,2-Dichloroethene	6.101	61	34203	5984.25 ug/L	99
6] Chloroform	6.688	83	36029	5854.36 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	32725	5402.38 ug/L	99
8] Carbon tetrachloride	7.211	117	29645	5166.48 ug/L	99
9] Benzene	7.552	78	84511	5056.25 ug/L	99
10] 1,2-Dichloroethane	7.588	62	28264	5247.03 ug/L	96
11] Trichloroethene	8.624	130	25366	5521.88 ug/L	99
13] Toluene	10.645	91	109959	4850.18 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	24243	5173.61 ug/L	100
15] Tetrachloroethene	11.495	166	34378	5382.10 ug/L	100
16] Chlorobenzene	12.837	112	84949	5249.91 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.988	131	31218	5685.00 ug/L	100
18] Ethylbenzene	13.035	91	148946	5474.66 ug/L	99
19] m&p-Xylene	13.234	91	229531	10930.96 ug/L	100
20] o-Xylene	13.846	91	113518	5104.49 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.947	83	49123	5129.02 ug/L	100
22] 1,3,5-Trimethylbenzene	15.413	105	138192	5491.96 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	150168	5966.15 ug/L	99
24] Naphthalene	17.936	128	63884	1546.59 ug/L	98
25) 2-Fluorotoluene SCAN	11.042	109	69829	5756.57 ug/L	90
26) 1,1-Dichloroethene SCAN	3.096	61	16376	5410.11 ug/L #	39
27) trans-1,2-Dichloroethe...	4.321	61	16917	4800.60 ug/L	90
28) 1,1-Dichloroethane SCAN	5.071	63	27674	6173.04 ug/L	92
29) cis-1,2-Dichloroethene...	6.106	61	23569	6078.94 ug/L	80
30) Chloroform SCAN	6.687	83	20642	4337.49 ug/L #	28
31) 1,1,1-Trichloroethane ...	6.930	97	24141	5698.51 ug/L	90
32) Carbon tetrachloride SCAN	7.210	117	19712	4722.34 ug/L #	78
33) Benzene SCAN	7.833	78	471	37.28 ug/L	83
34) 1,2-Dichloroethane SCAN	7.599	62	22297	5175.31 ug/L	88
35) Trichloroethene SCAN	8.628	130	14479	4683.61 ug/L	92
36) Toluene-d8 SCAN	10.549	98	60079	5478.79 ug/L	86
37) Toluene SCAN	10.643	91	83483	5959.82 ug/L	97
38) 1,1,2-Trichloroethane ...	11.305	97	16956	6317.03 ug/L	96
39) Tetrachloroethene SCAN	11.493	166	22848	7433.14 ug/L	89
40) Chlorobenzene SCAN	12.828	112	51118	6015.77 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.986	131	19005	6265.92 ug/L	81
42) Ethylbenzene SCAN	13.034	91	93119	5719.05 ug/L	95
43) m&p-Xylene SCAN	13.241	91	148204	6557.49 ug/L	97
44) o-Xylene SCAN	13.852	91	81941	6370.03 ug/L	93
45) 1,1,2,2-Tetrachloroeth...	14.946	83	37215	6104.08 ug/L	87
46) 1,3,5-Trimethylbenzene...	15.421	105	94517	7410.59 ug/L	92
47) 1,2,4-Trimethylbenzene...	15.958	105	82714	6327.99 ug/L	95
48) Naphthalene SCAN	17.935	128	28877	1548.37 ug/L	82

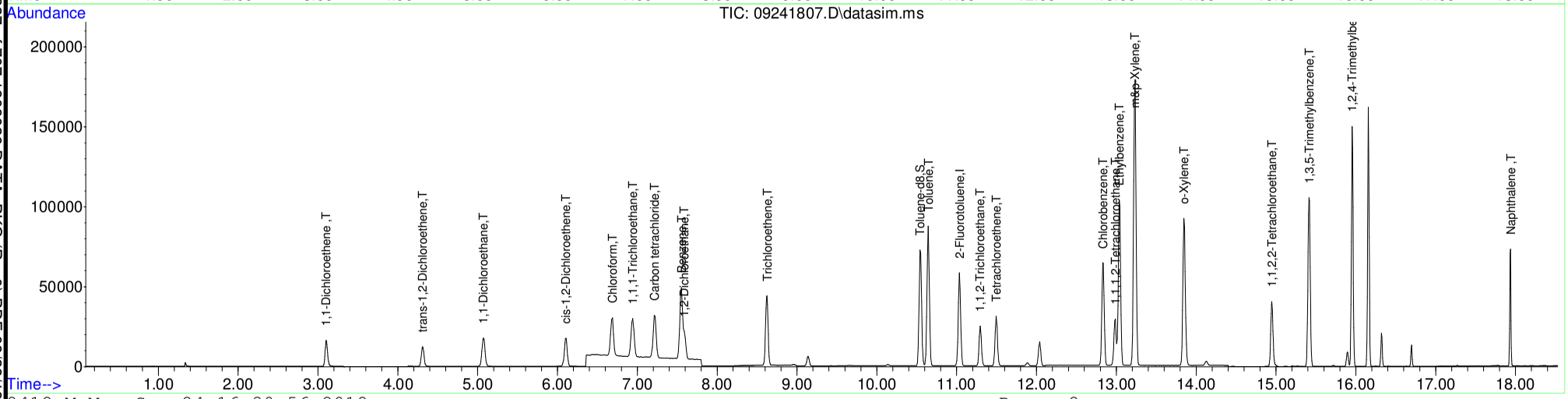
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241807.D
Acq On : 24 Sep 2018 14:37
InstName : AG5975C
Operator : RH
Sample : B18I067-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 24 16:30:55 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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B18I067-BSD1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241808.D
Acq On : 24 Sep 2018 15:01
InstName : AG5975C
Operator : RH
Sample : B18I067-BSD1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 24 16:30:59 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

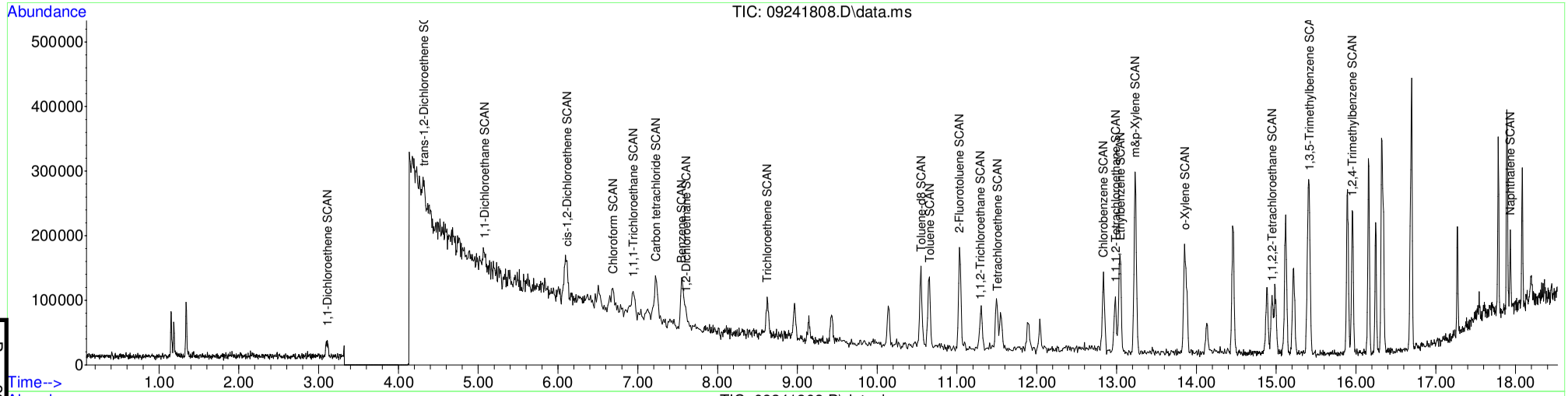
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	131202	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	114434	5369.67 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 107.39%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	24198	4400.96 ug/L	97
3] trans-1,2-Dichloroethene	4.309	61	26242	4472.98 ug/L	100
4] 1,1-Dichloroethane	5.073	63	39895	5463.49 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	38267	5312.22 ug/L	100
6] Chloroform	6.688	83	40825	5263.31 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	38504	5043.33 ug/L	100
8] Carbon tetrachloride	7.211	117	36620	5063.69 ug/L	100
9] Benzene	7.552	78	104715	4970.85 ug/L	98
10] 1,2-Dichloroethane	7.588	62	33713	4965.74 ug/L	99
11] Trichloroethene	8.624	130	31939	5516.48 ug/L	100
13] Toluene	10.645	91	138303	4840.22 ug/L	99
14] 1,1,2-Trichloroethane	11.295	97	30061	5089.99 ug/L	100
15] Tetrachloroethene	11.495	166	45828	5692.57 ug/L	99
16] Chlorobenzene	12.837	112	110290	5407.99 ug/L	98
17] 1,1,1,2-Tetrachloroethane	12.980	131	39364	5687.63 ug/L	99
18] Ethylbenzene	13.035	91	193817	5652.31 ug/L	100
19] m&p-Xylene	13.234	91	289429	10936.16 ug/L	99
20] o-Xylene	13.846	91	146828	5238.44 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.947	83	68437	5669.53 ug/L	100
22] 1,3,5-Trimethylbenzene	15.414	105	187438	5910.28 ug/L	99
23] 1,2,4-Trimethylbenzene	15.955	105	195411	6159.88 ug/L	100
24] Naphthalene	17.936	128	82592	1586.45 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	90357	5910.12 ug/L	93
26) 1,1-Dichloroethene SCAN	3.107	61	15588	4085.97 ug/L	81
27) trans-1,2-Dichloroethe...	4.321	61	19423	4373.15 ug/L	92
28) 1,1-Dichloroethane SCAN	5.078	63	25739	4555.38 ug/L	94
29) cis-1,2-Dichloroethene...	6.113	61	24705	5055.65 ug/L #	71
30) Chloroform SCAN	6.687	83	26766	4462.48 ug/L	84
31) 1,1,1-Trichloroethane ...	6.942	97	25622	4798.72 ug/L	79
32) Carbon tetrachloride SCAN	7.222	117	24211	4601.99 ug/L	80
33) Benzene SCAN	7.550	78	87641	5504.30 ug/L #	79
34) 1,2-Dichloroethane SCAN	7.599	62	24720	4552.44 ug/L	81
35) Trichloroethene SCAN	8.623	130	23716	6086.81 ug/L	89
36) Toluene-d8 SCAN	10.549	98	84799	6135.62 ug/L	100
37) Toluene SCAN	10.654	91	89387	5063.09 ug/L	81
38) 1,1,2-Trichloroethane ...	11.294	97	26215	7748.99 ug/L	88
39) Tetrachloroethene SCAN	11.504	166	31109	8030.02 ug/L	85
40) Chlorobenzene SCAN	12.836	112	73327	6846.79 ug/L	96
41) 1,1,1,2-Tetrachloroeth...	12.986	131	24995	6538.47 ug/L	85
42) Ethylbenzene SCAN	13.042	91	142294	6933.92 ug/L	94
43) m&p-Xylene SCAN	13.233	91	193949	6808.81 ug/L	97
44) o-Xylene SCAN	13.852	91	101095	6235.57 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.950	83	50535	6576.59 ug/L	95
46) 1,3,5-Trimethylbenzene...	15.413	105	121775	7575.43 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.954	105	119137	7231.68 ug/L	98
48) Naphthalene SCAN	17.935	128	45022	1915.38 ug/L	92

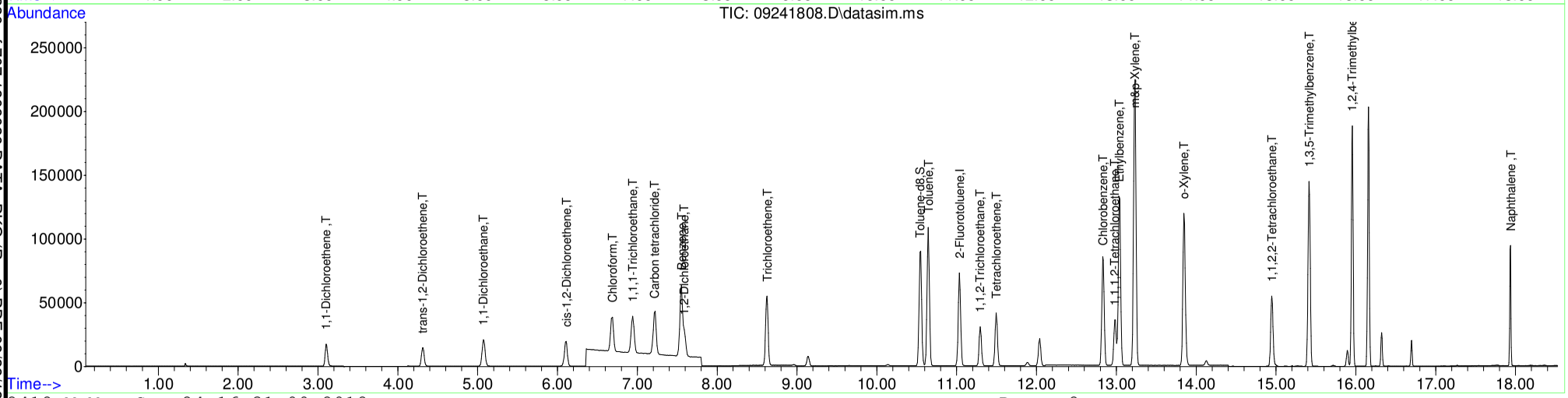
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241808.D
Acq On : 24 Sep 2018 15:01
InstName : AG5975C
Operator : RH
Sample : B18I067-BSD1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 24 16:30:59 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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B18I067-MRL1

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241809.D
Acq On : 24 Sep 2018 15:25
InstName : AG5975C
Operator : RH
Sample : B18I067-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 16:31:54 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

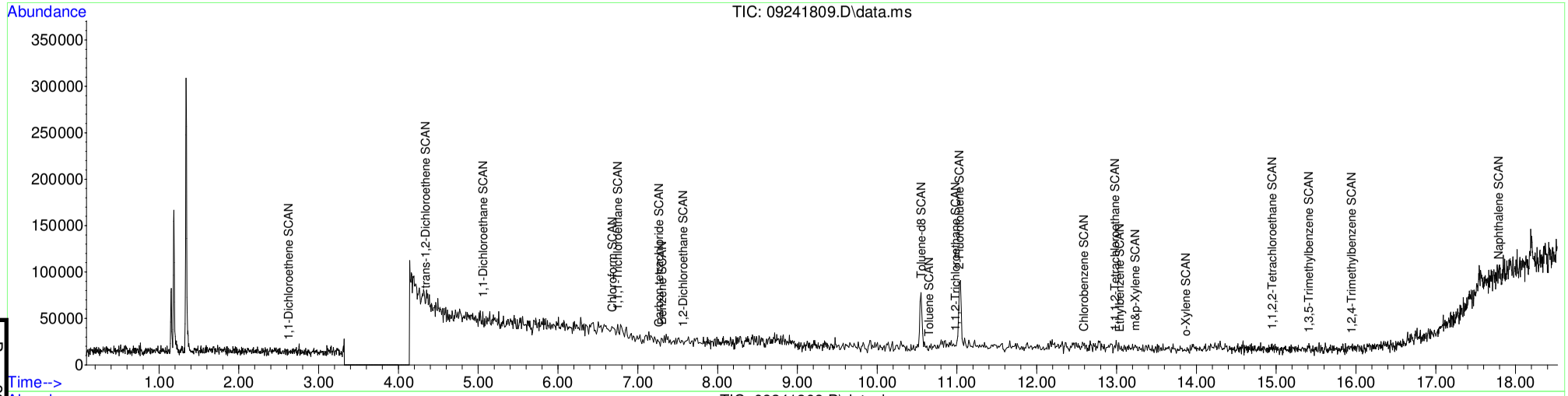
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	100827	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	81764	4992.50 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 99.85%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	725	171.58 ug/L	76
3] trans-1,2-Dichloroethene	4.303	61	253	56.12 ug/L	74
4] 1,1-Dichloroethane	5.066	63	351	62.55 ug/L	77
5] cis-1,2-Dichloroethene	6.101	61	338	61.06 ug/L	87
6] Chloroform	6.688	83	369	61.90 ug/L	95
7] 1,1,1-Trichloroethane	6.943	97	370	63.06 ug/L	91
8] Carbon tetrachloride	7.211	117	343	61.72 ug/L	80
9] Benzene	7.552	78	1181	72.95 ug/L	64
10] 1,2-Dichloroethane	7.588	62	341	65.36 ug/L #	1
11] Trichloroethene	8.624	130	278	62.48 ug/L	90
13] Toluene	10.645	91	1270	57.84 ug/L	87
14] 1,1,2-Trichloroethane	11.295	97	286	63.01 ug/L	86
15] Tetrachloroethene	11.495	166	398	64.33 ug/L	94
16] Chlorobenzene	12.837	112	886	56.53 ug/L	80
17] 1,1,1,2-Tetrachloroethane	12.988	131	365	68.63 ug/L	78
18] Ethylbenzene	13.035	91	1760	66.79 ug/L	93
19] m&p-Xylene	13.234	91	2605	128.08 ug/L	95
20] o-Xylene	13.846	91	1294	60.07 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.947	83	505	54.44 ug/L	89
22] 1,3,5-Trimethylbenzene	15.413	105	1748	71.72 ug/L	91
23] 1,2,4-Trimethylbenzene	15.954	105	1600	65.63 ug/L	98
24] Naphthalene	17.936	128	631	15.77 ug/L #	1
25) 2-Fluorotoluene SCAN	11.032	109	60338	5135.57 ug/L	95
26) 1,1-Dichloroethene SCAN	2.620	61	157	53.55 ug/L #	30
27) trans-1,2-Dichloroethe...	4.341	61	280	82.04 ug/L #	23
28) 1,1-Dichloroethane SCAN	5.058	63	89	20.50 ug/L #	43
30) Chloroform SCAN	6.675	83	347	75.28 ug/L #	28
31) 1,1,1-Trichloroethane ...	6.748	97	54	13.16 ug/L #	1
32) Carbon tetrachloride SCAN	7.258	117	178	44.03 ug/L #	13
33) Benzene SCAN	7.307	78	5630	460.12 ug/L	79
34) 1,2-Dichloroethane SCAN	7.563	62	167	40.02 ug/L #	1
36) Toluene-d8 SCAN	10.549	98	36675	3453.04 ug/L	78
37) Toluene SCAN	10.643	91	655	48.28 ug/L #	31
38) 1,1,2-Trichloroethane ...	10.979	97	181	69.62 ug/L #	10
40) Chlorobenzene SCAN	12.589	112	181	21.99 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.978	131	217	73.87 ug/L #	13
42) Ethylbenzene SCAN	13.034	91	2308	146.35 ug/L #	76
43) m&p-Xylene SCAN	13.233	91	845	38.60 ug/L #	15
44) o-Xylene SCAN	13.868	91	1570	126.01 ug/L #	50
45) 1,1,2,2-Tetrachloroeth...	14.950	83	231	39.12 ug/L #	68
46) 1,3,5-Trimethylbenzene...	15.406	105	1490	120.61 ug/L #	55
47) 1,2,4-Trimethylbenzene...	15.938	105	780	61.61 ug/L #	71
48) Naphthalene SCAN	17.782	128	1277	70.69 ug/L	87

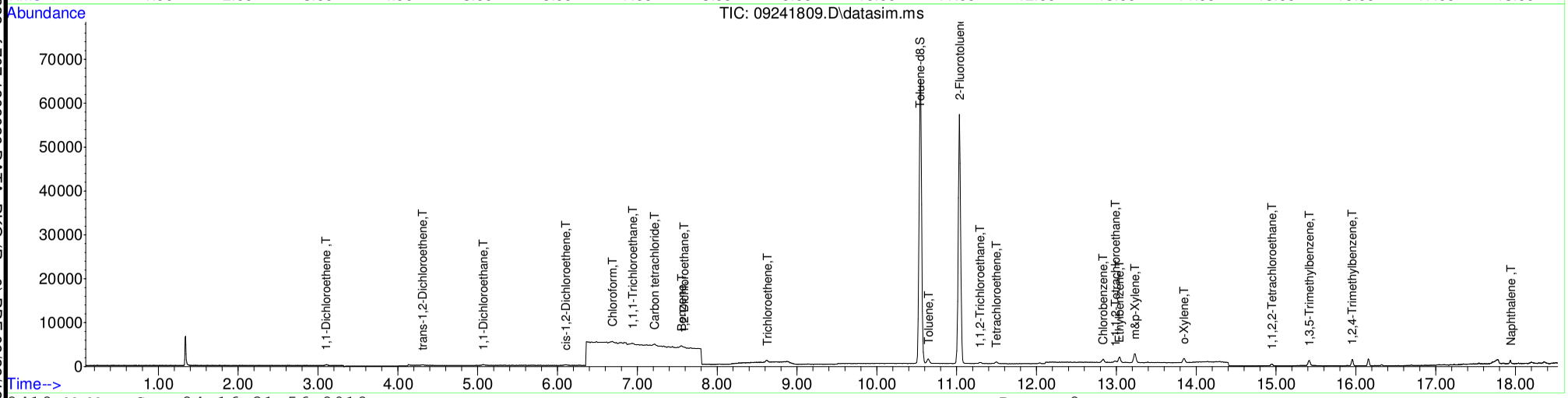
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241809.D
Acq On : 24 Sep 2018 15:25
InstName : AG5975C
Operator : RH
Sample : B18I067-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 16:31:54 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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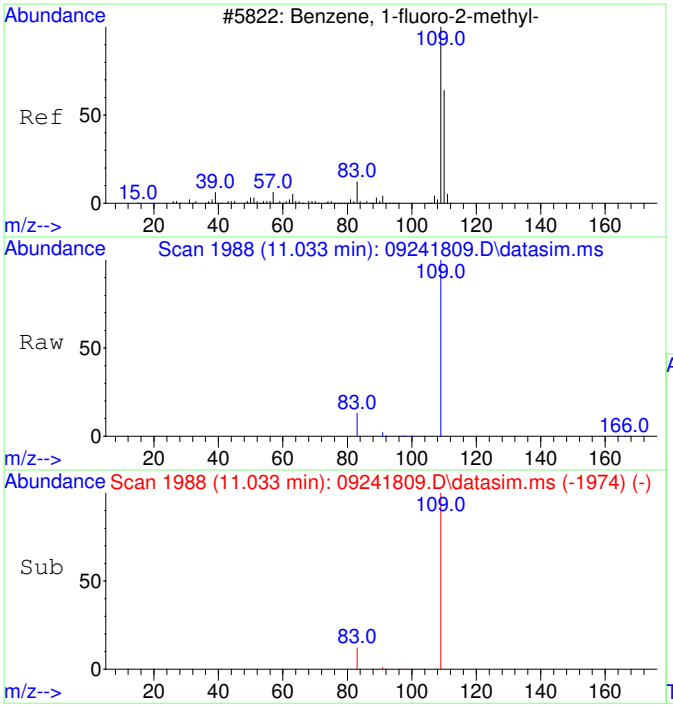
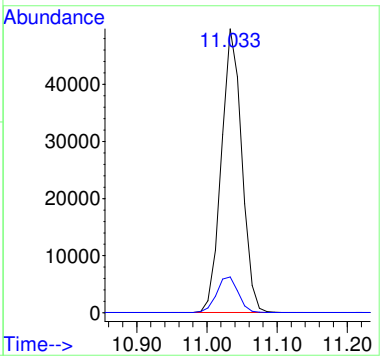
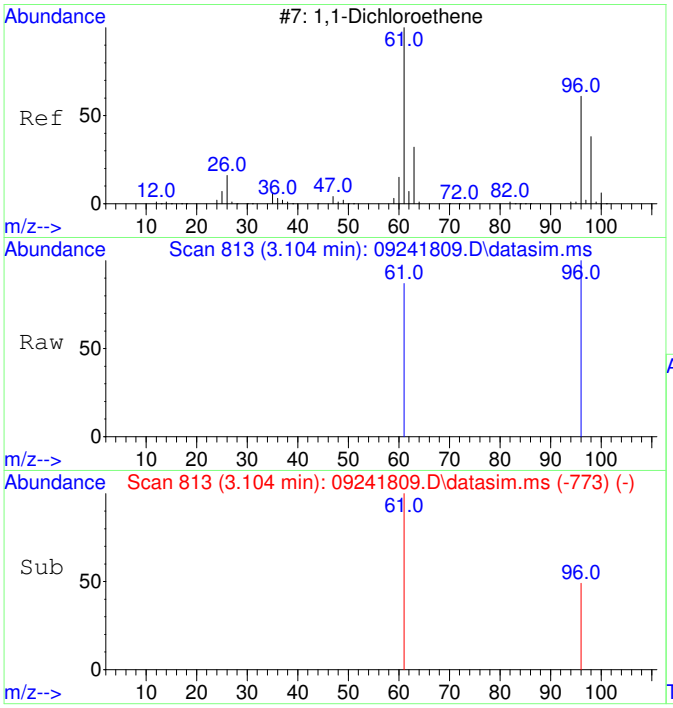


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:109 Resp: 100827

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

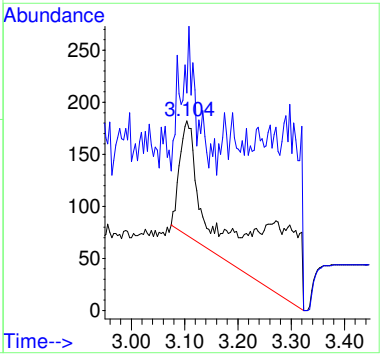


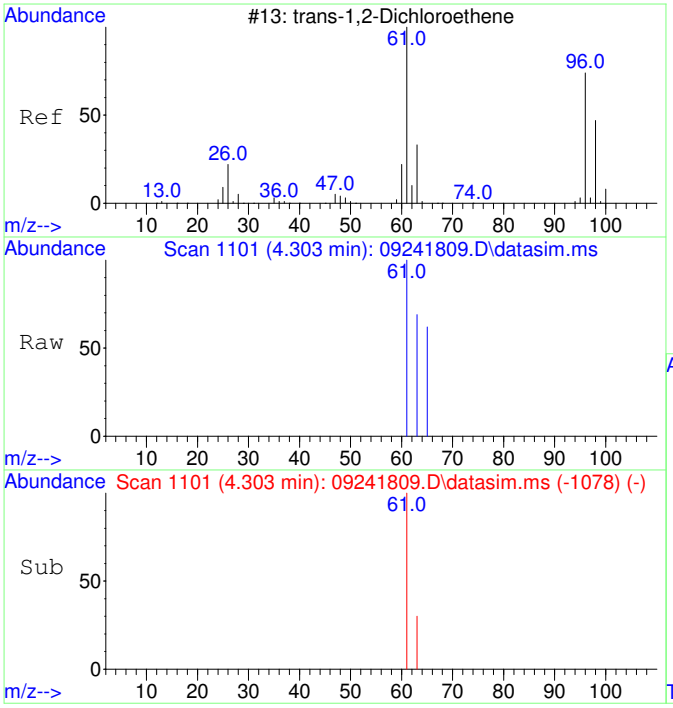


#2
1,1-Dichloroethene
Concen: 171.58 ug/L
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 725

Ion	Ratio	Lower	Upper
61	100		
96	40.6	28.7	88.7

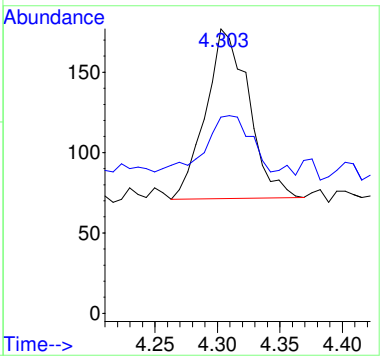


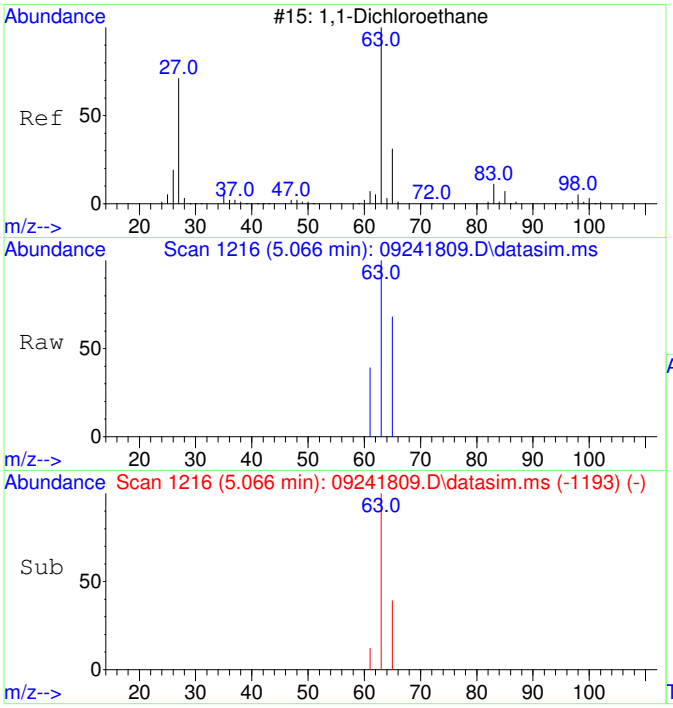


#3
trans-1,2-Dichloroethene
Concen: 56.12 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 253

Ion	Ratio	Lower	Upper
61	100		
63	46.6	2.0	62.0

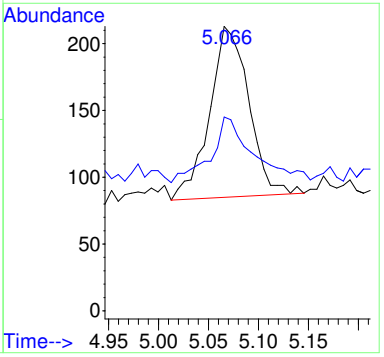


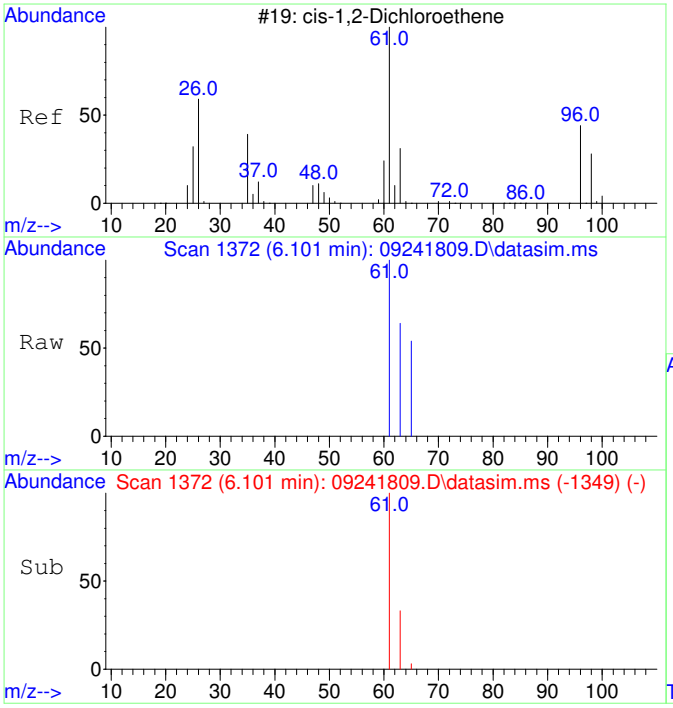


#4
1,1-Dichloroethane
Concen: 62.55 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 63 Resp: 351

Ion	Ratio	Lower	Upper
63	100		
65	44.4	1.5	61.5

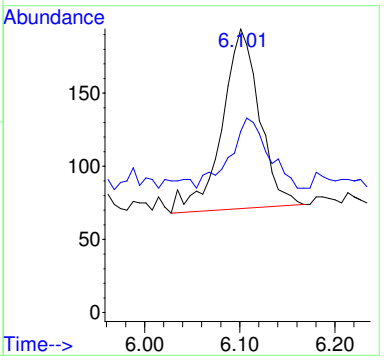


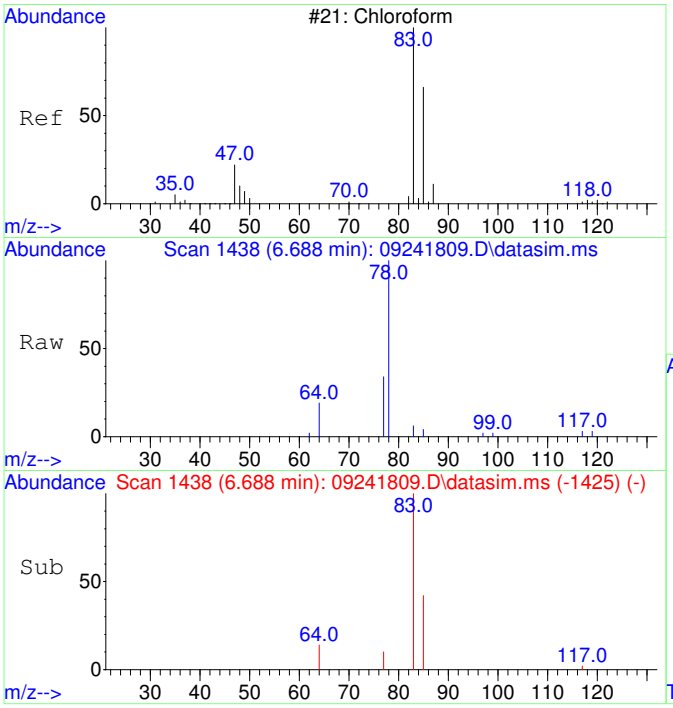


#5
cis-1,2-Dichloroethene
Concen: 61.06 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 338

Ion	Ratio	Lower	Upper
61	100		
63	39.3	2.2	62.2

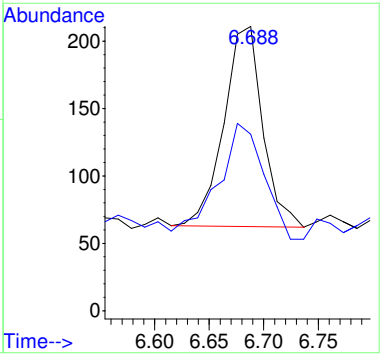


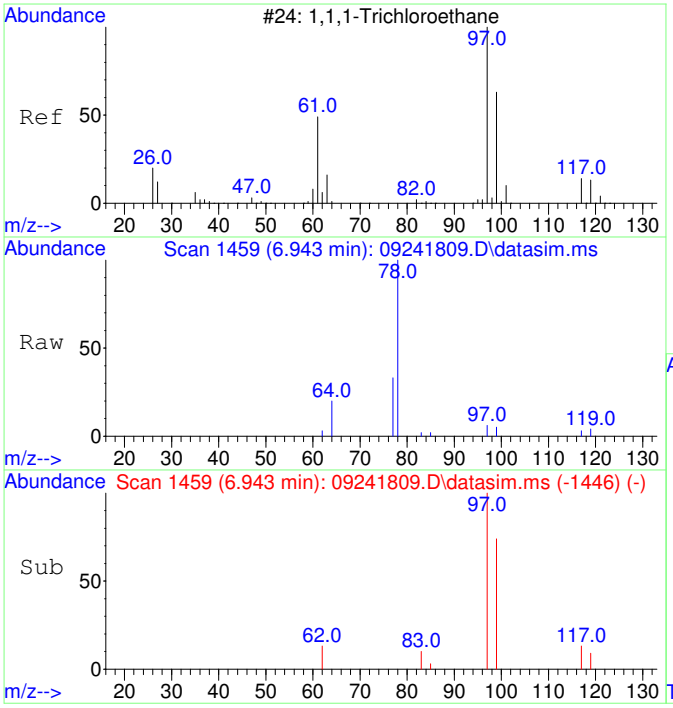


#6
Chloroform
Concen: 61.90 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 369

Ion	Ratio	Lower	Upper
83	100		
85	68.6	34.8	94.8

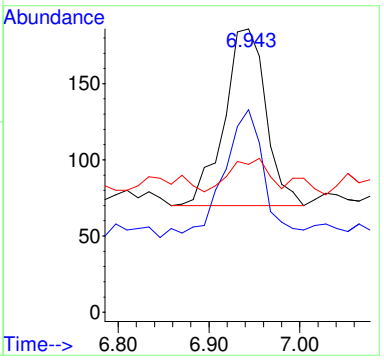


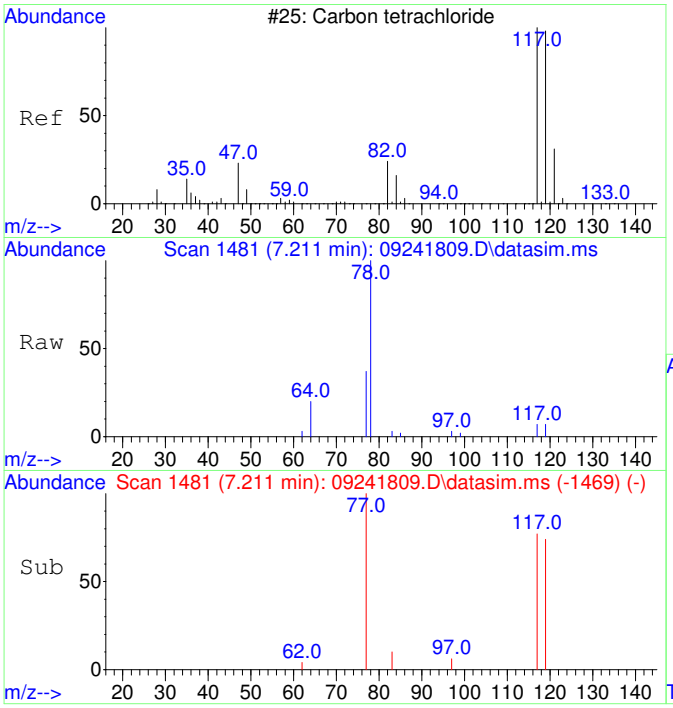


#7
1,1,1-Trichloroethane
Concen: 63.06 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 370

Ion	Ratio	Lower	Upper
97	100		
99	70.5	34.6	94.6
117	18.9	0.0	42.9

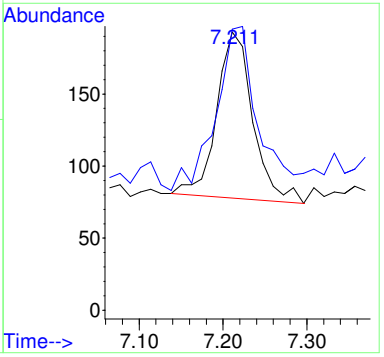


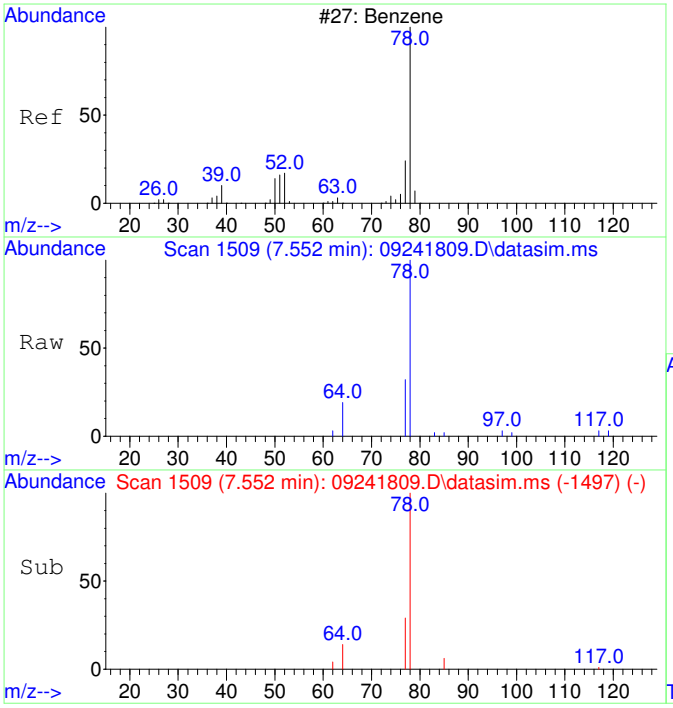


#8
Carbon tetrachloride
Concen: 61.72 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:117 Resp: 343

Ion	Ratio	Lower	Upper
117	100		
119	115.5	65.9	125.9

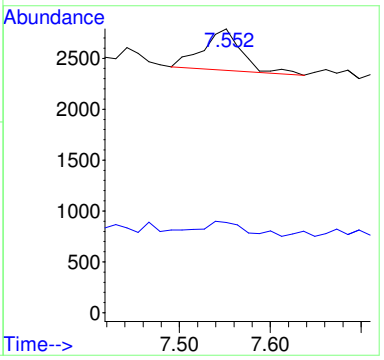


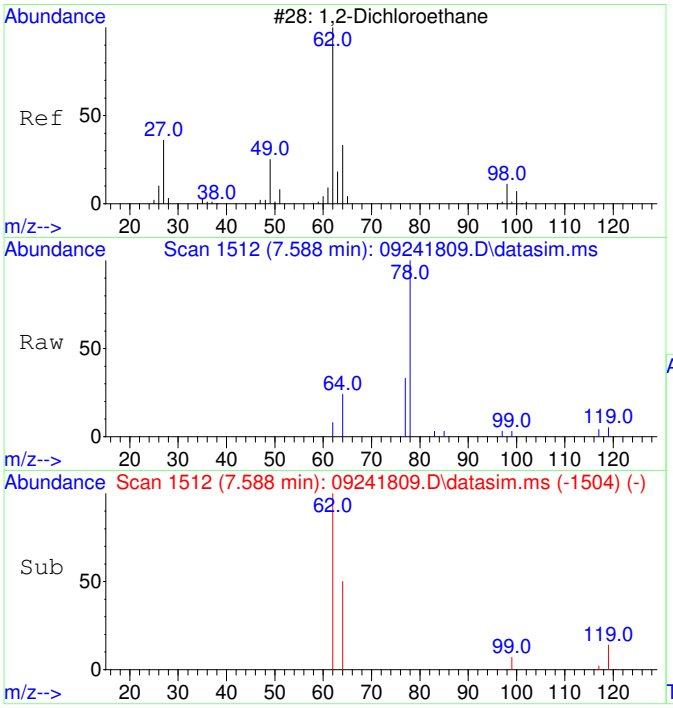


#9
Benzene
Concen: 72.95 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 78 Resp: 1181

Ion	Ratio	Lower	Upper
78	100		
77	40.4	0.0	53.0

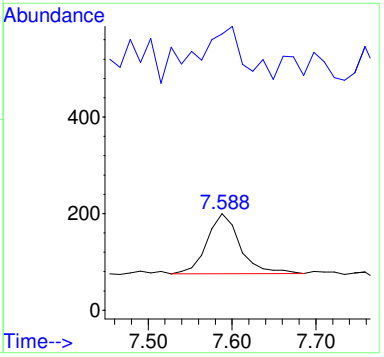


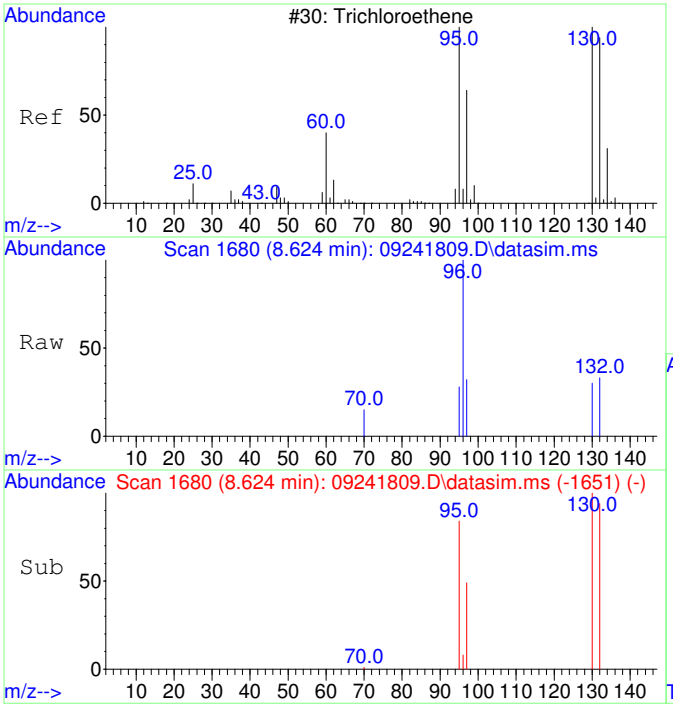


#10
1,2-Dichloroethane
Concen: 65.36 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 62 Resp: 341

Ion	Ratio	Lower	Upper
62	100		
64	129.0	2.3	62.3#

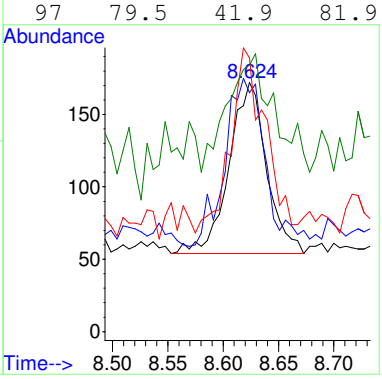


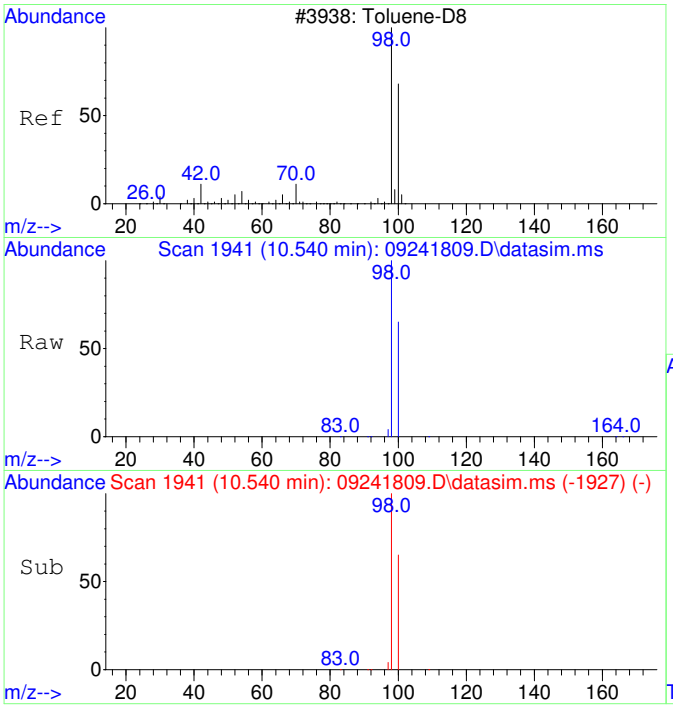


#11
Trichloroethene
Concen: 62.48 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:130 Resp: 278

Ion	Ratio	Lower	Upper
130	100		
95	106.5	66.0	126.0
132	100.0	78.8	118.8
97	79.5	41.9	81.9

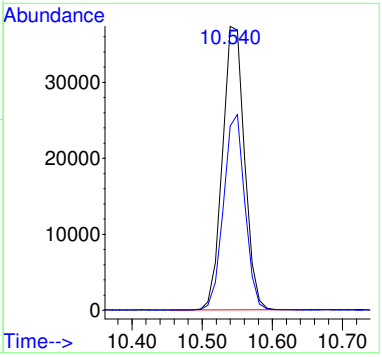


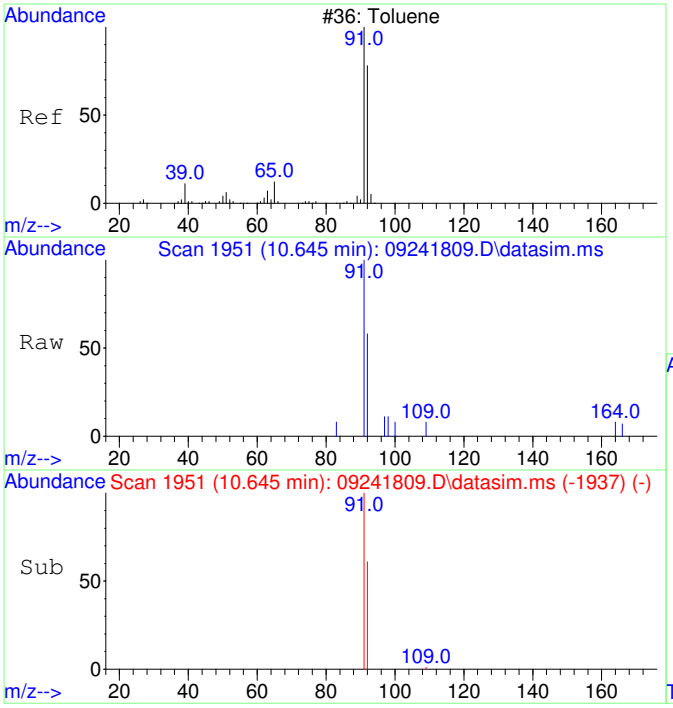


#12
Toluene-d8
Concen: 4992.50 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 98 Resp: 81764

Ion	Ratio	Lower	Upper
98	100		
100	66.8	38.7	98.7

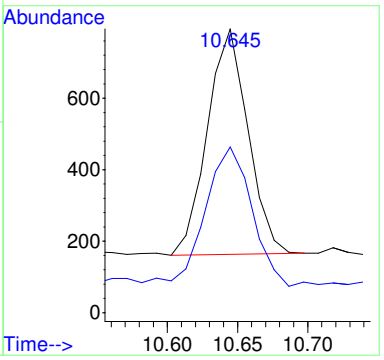


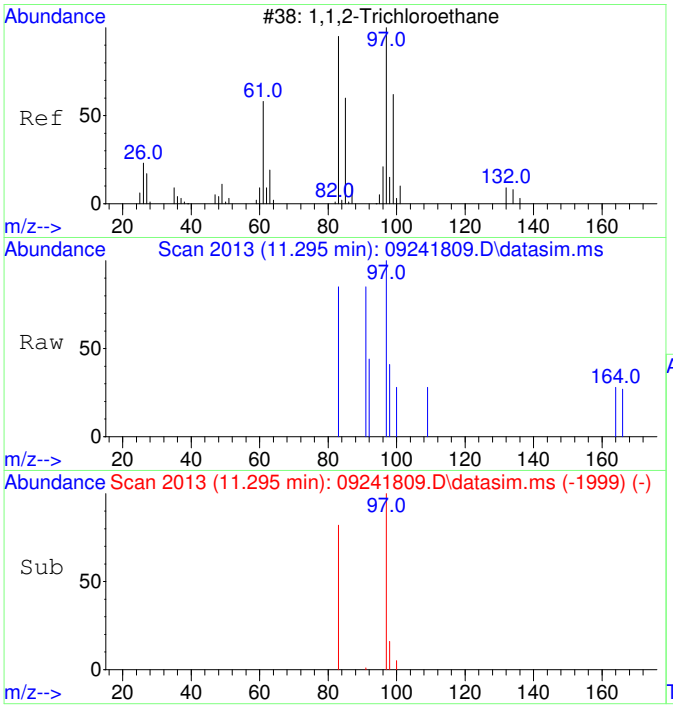


#13
Toluene
Concen: 57.84 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1270

Ion	Ratio	Lower	Upper
91	100		
92	69.5	30.0	90.0

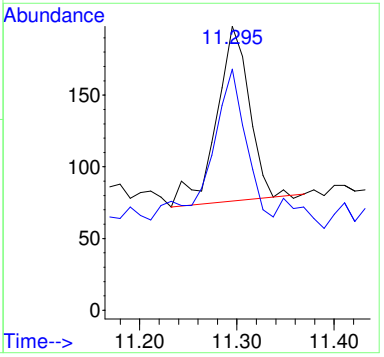


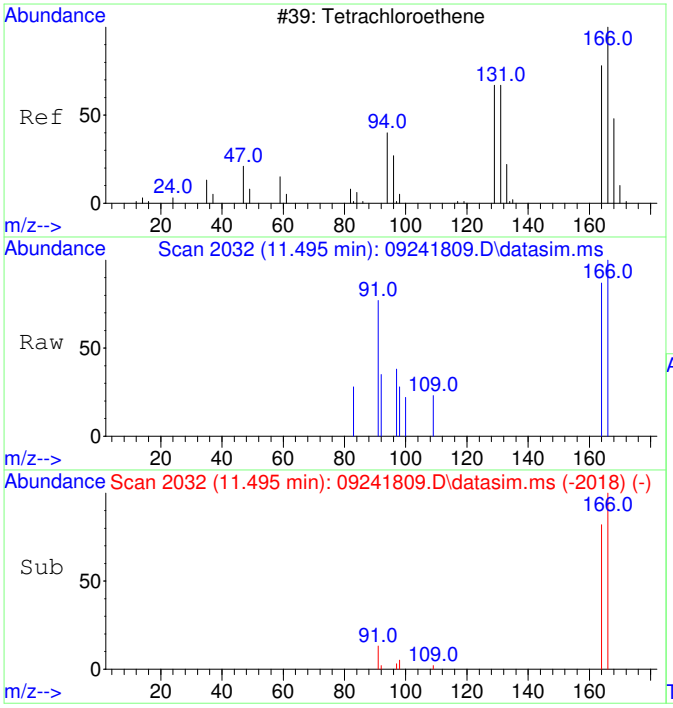


#14
1,1,2-Trichloroethane
Concen: 63.01 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 286

Ion	Ratio	Lower	Upper
97	100		
83	95.8	53.4	113.4

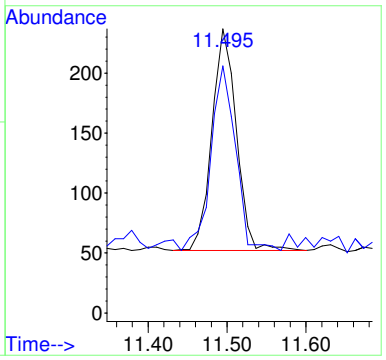


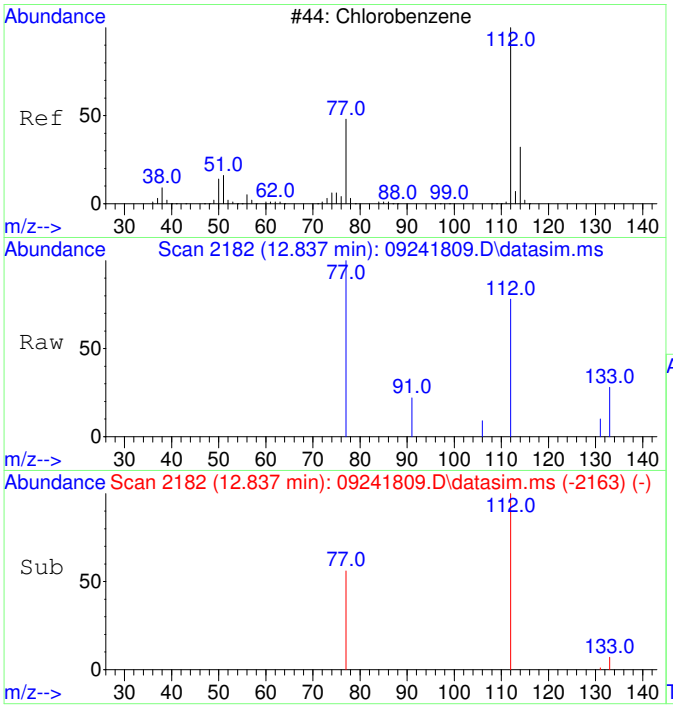


#15
Tetrachloroethene
Concen: 64.33 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:166 Resp: 398

Ion	Ratio	Lower	Upper
166	100		
164	83.4	47.8	107.8

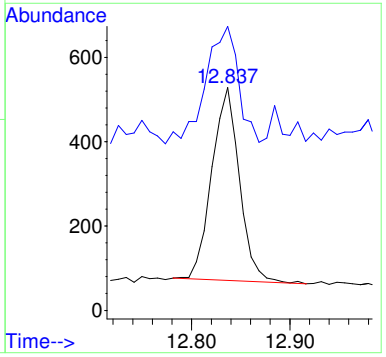


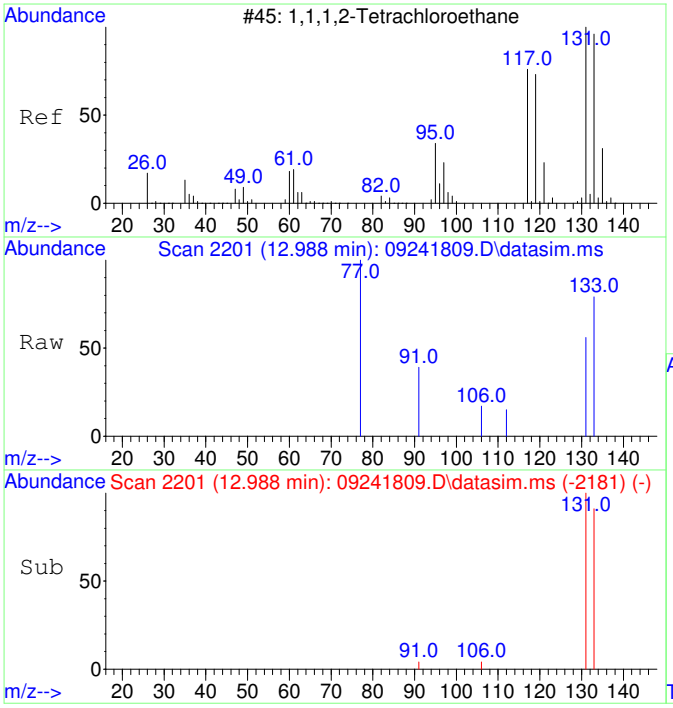


#16
Chlorobenzene
Concen: 56.53 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:112 Resp: 886

Ion	Ratio	Lower	Upper
112	100		
77	72.8	28.1	88.1

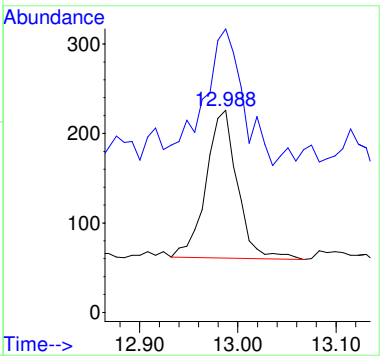


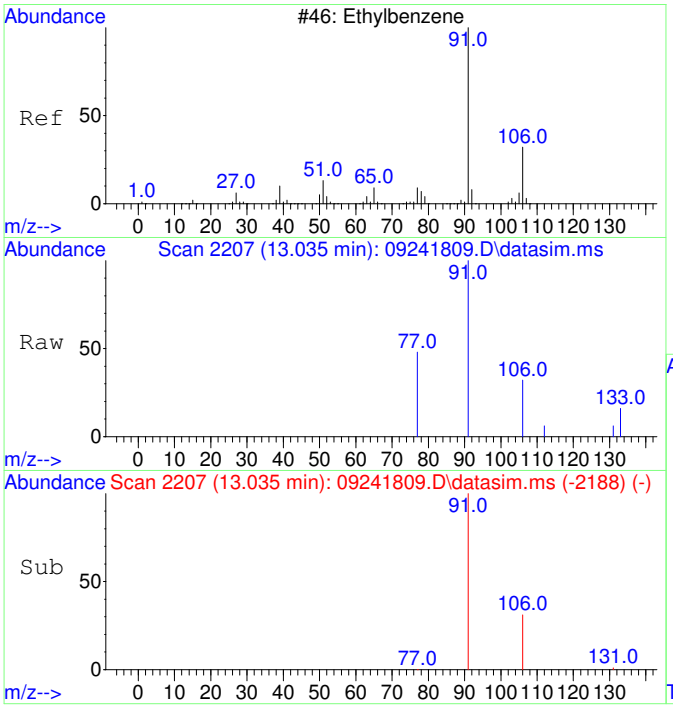


#17
1,1,1,2-Tetrachloroethane
Concen: 68.63 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:131 Resp: 365

Ion	Ratio	Lower	Upper
131	100		
133	118.1	66.2	126.2

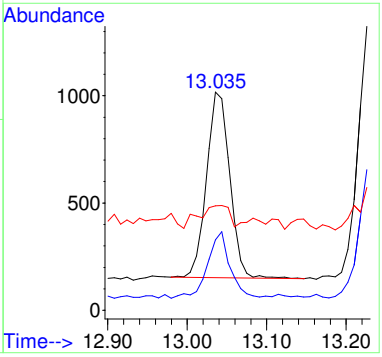


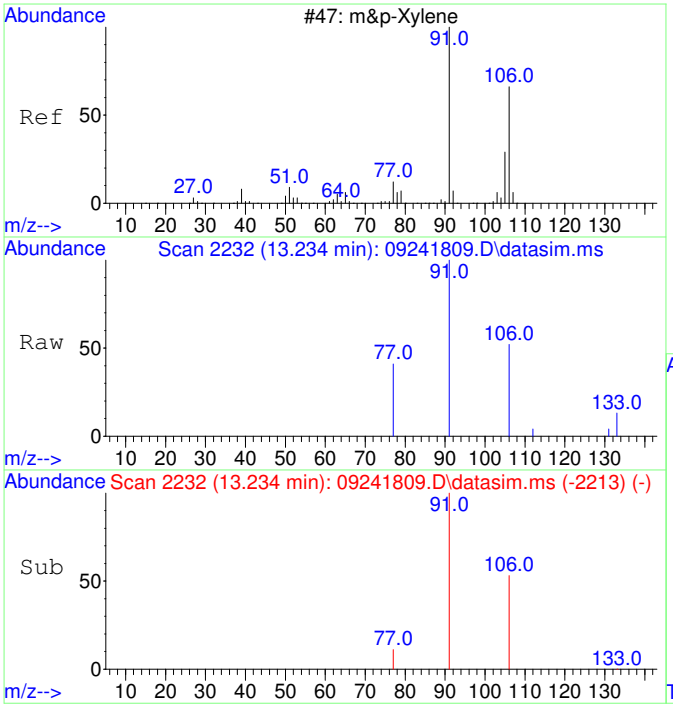


#18
Ethylbenzene
Concen: 66.79 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1760

Ion	Ratio	Lower	Upper
91	100		
106	34.7	2.8	62.8
77	16.6	0.0	38.6

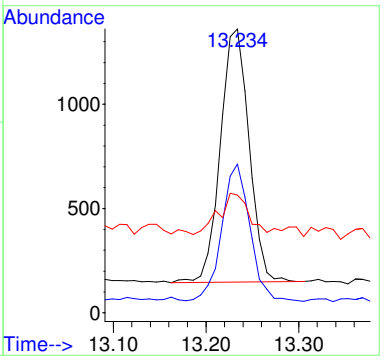


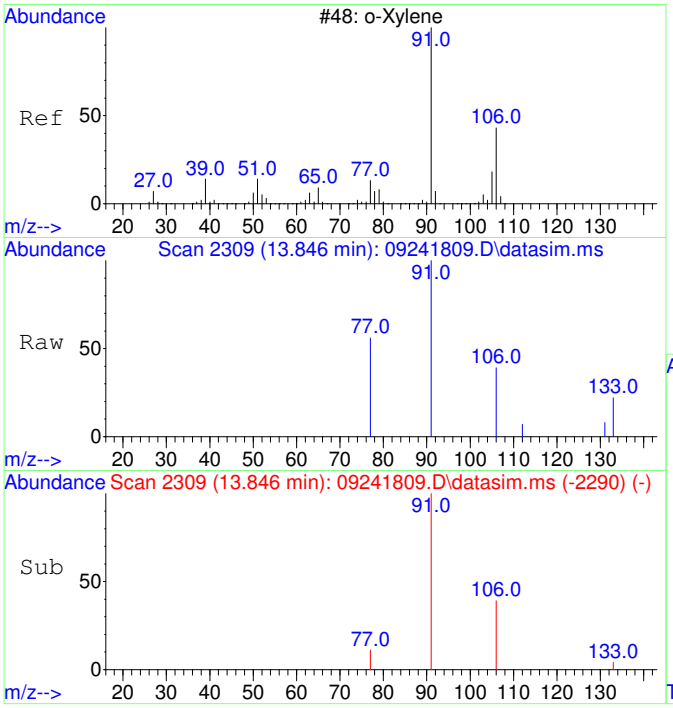


#19
m&p-Xylene
Concen: 128.08 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 2605

Ion	Ratio	Lower	Upper
91	100		
106	53.0	21.2	81.2
77	18.7	0.0	42.9

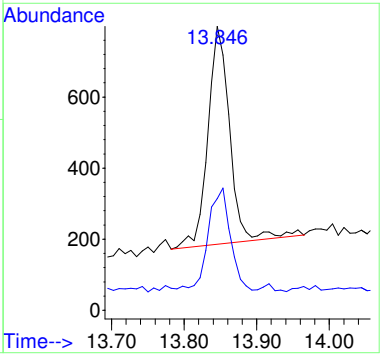


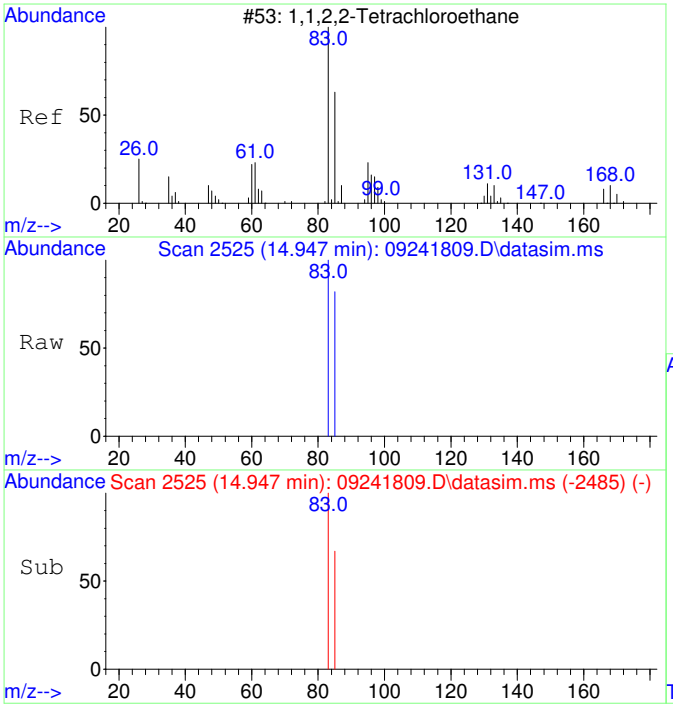


#20
o-Xylene
Concen: 60.07 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1294

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.3	78.3

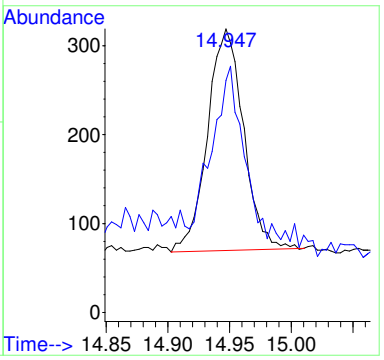


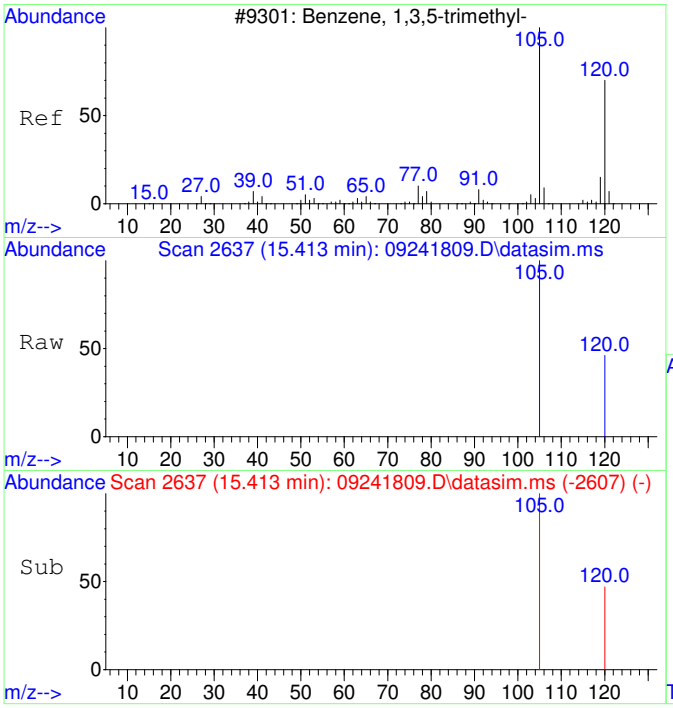


#21
1,1,2,2-Tetrachloroethane
Concen: 54.44 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 505

Ion	Ratio	Lower	Upper
83	100		
85	72.7	34.4	94.4

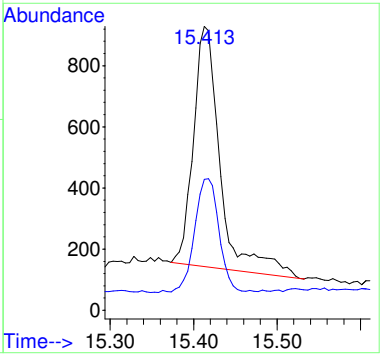


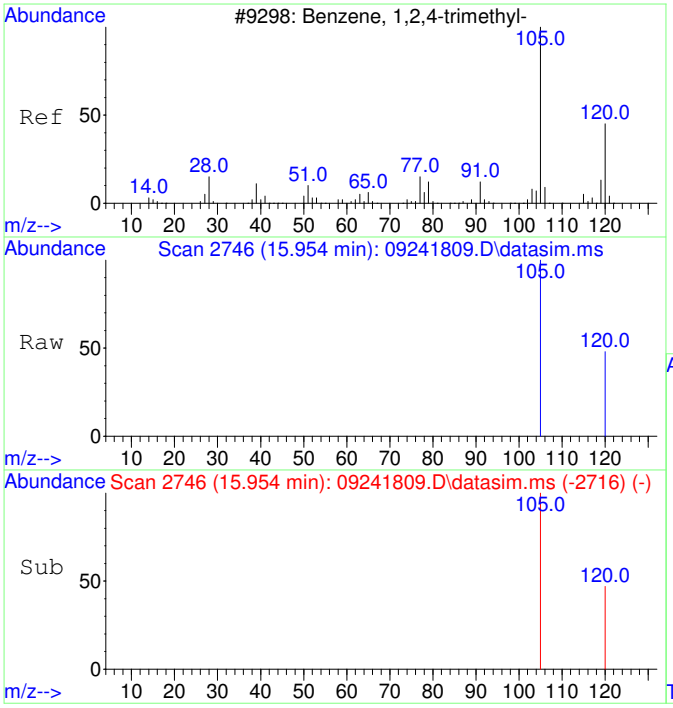


#22
1,3,5-Trimethylbenzene
Concen: 71.72 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.001 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1748

Ion	Ratio	Lower	Upper
105	100		
120	43.0	19.1	79.1

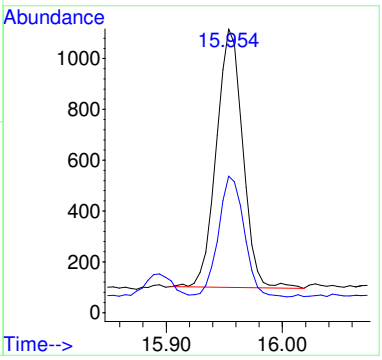


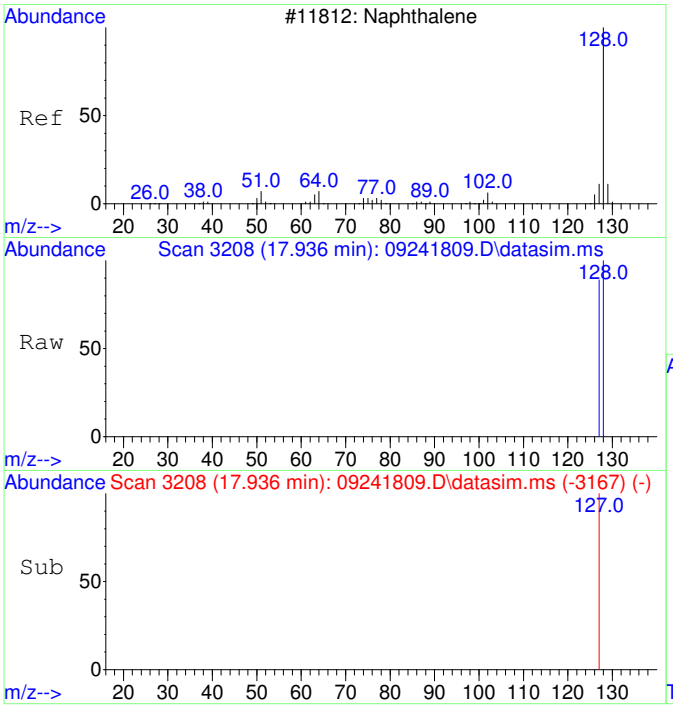


#23
1,2,4-Trimethylbenzene
Concen: 65.63 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1600

Ion	Ratio	Lower	Upper
105	100		
120	44.5	15.5	75.5

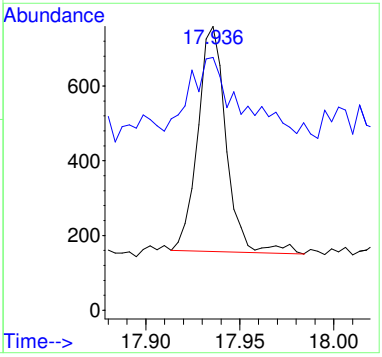


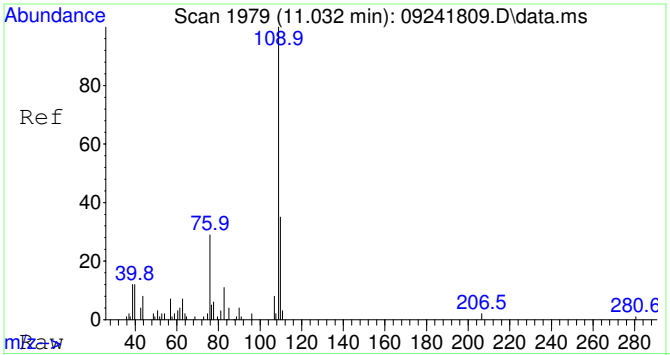


#24
Naphthalene
Concen: 15.77 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:128 Resp: 631

Ion	Ratio	Lower	Upper
128	100		
127	58.8	0.0	42.5#

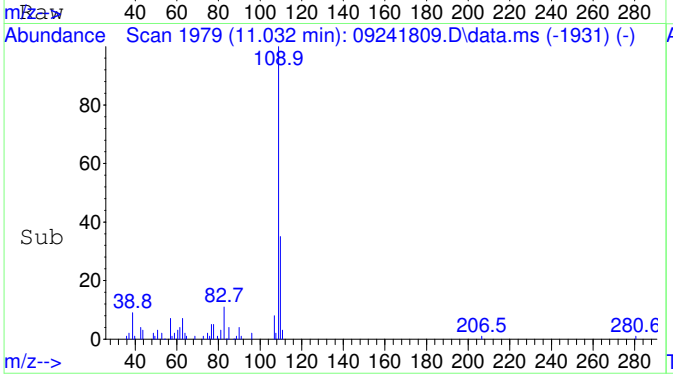


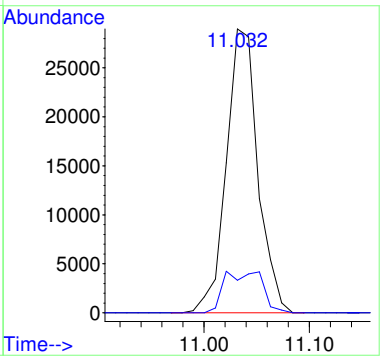


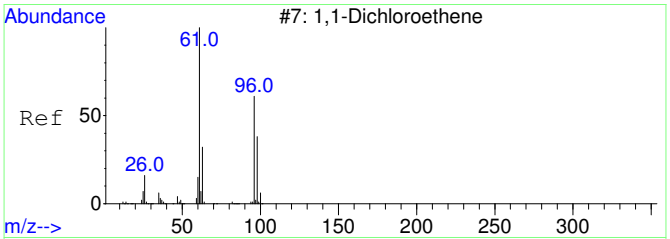
#25
2-Fluorotoluene SCAN
Concen: 5135.57 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:109 Resp: 60338

Ion	Ratio	Lower	Upper
109	100		
83	17.9	0.0	45.7



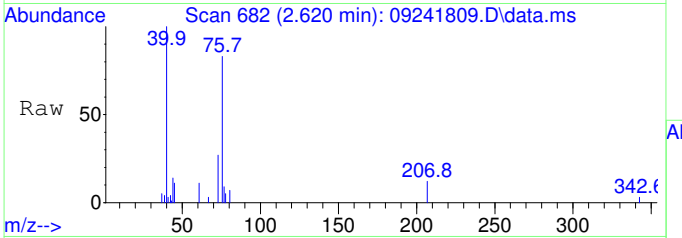


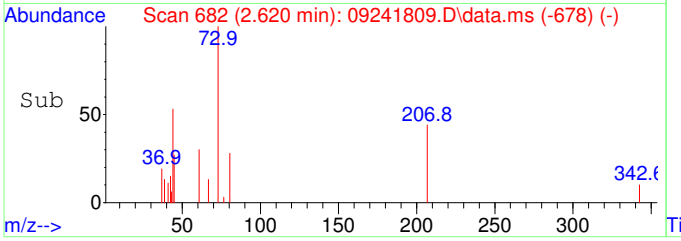


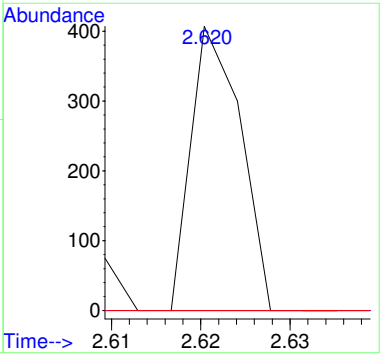
#26
1,1-Dichloroethene SCAN
Concen: 53.55 ug/L
RT: 2.620 min Scan# 682
Delta R.T. -0.486 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

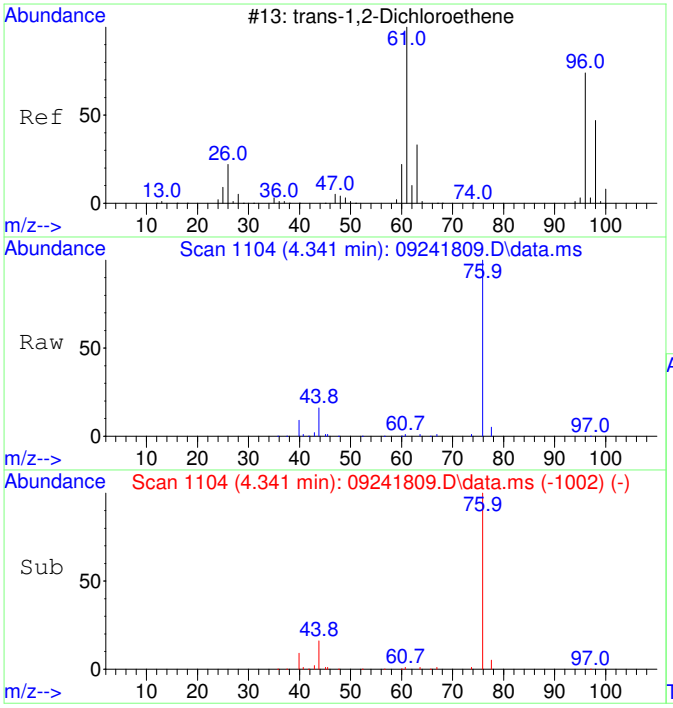
Tgt Ion: 61 Resp: 157

Ion	Ratio	Lower	Upper
61	100		
96	0.0	23.8	83.8#
98	0.0	8.8	68.8#





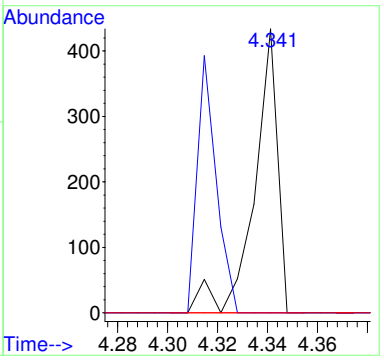


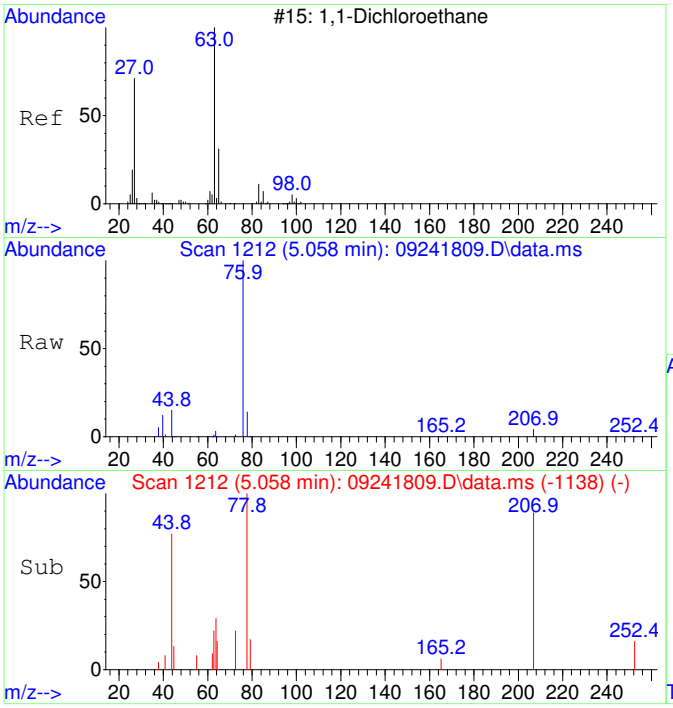


#27
trans-1,2-Dichloroethene SCAN
Concen: 82.04 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. 0.033 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 280

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	0.0	12.7	72.7#

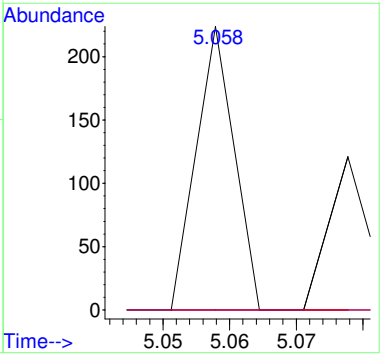


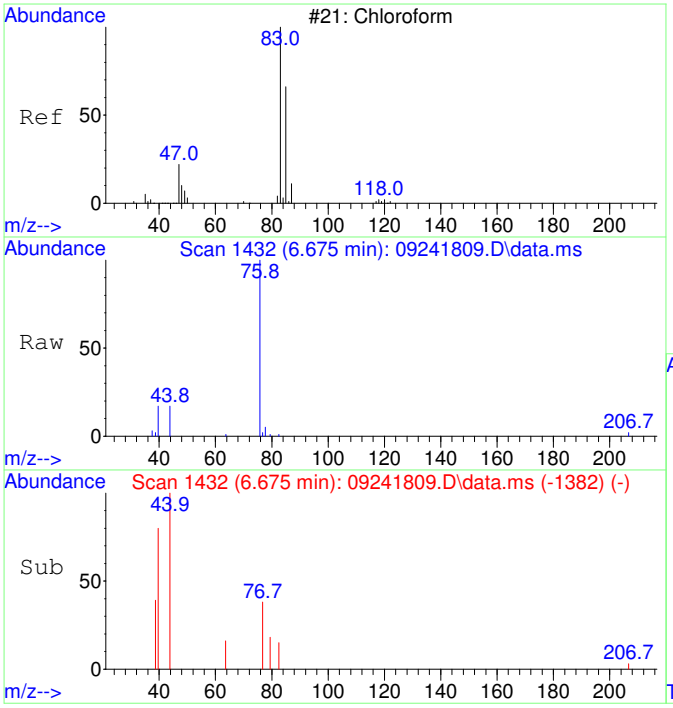


#28
1,1-Dichloroethane SCAN
Concen: 20.50 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 63 Resp: 89

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

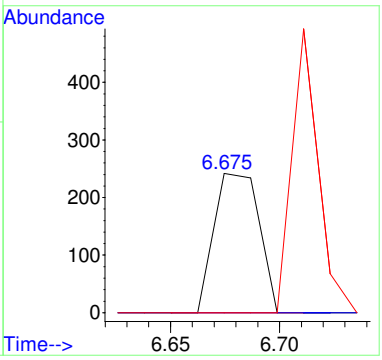


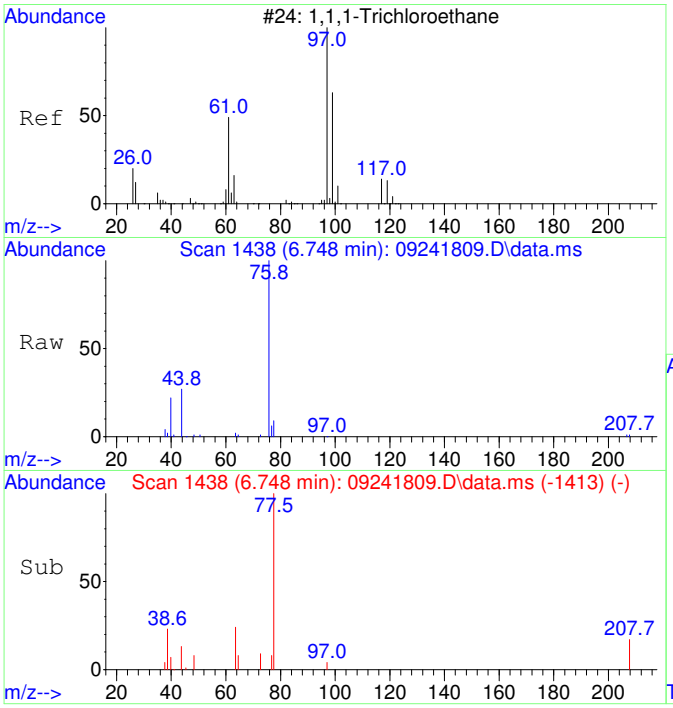


#30
Chloroform SCAN
Concen: 75.28 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 347

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

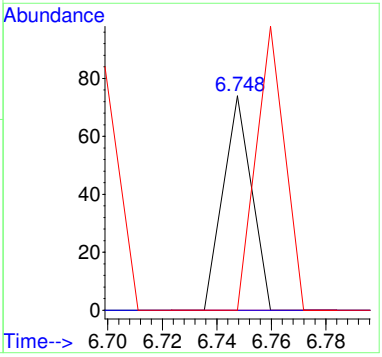


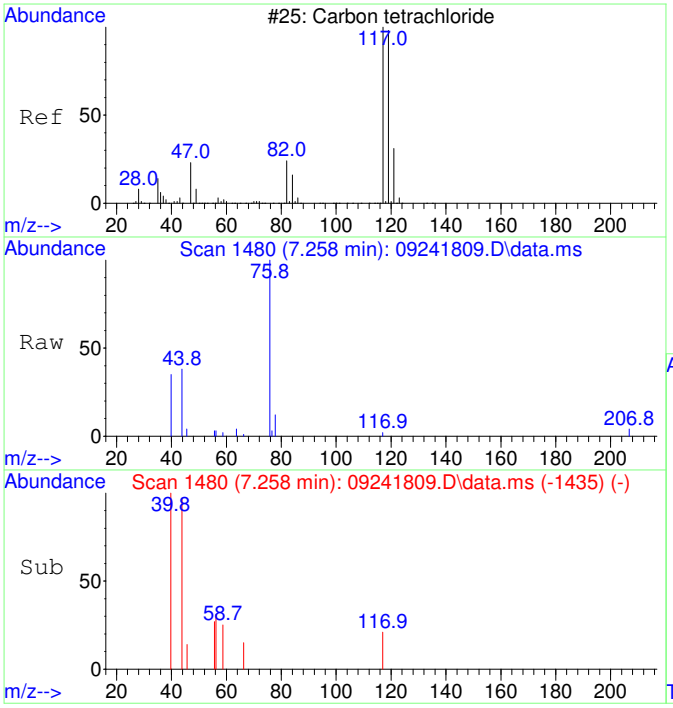


#31
1,1,1-Trichloroethane SCAN
Concen: 13.16 ug/L
RT: 6.748 min Scan# 1438
Delta R.T. -0.195 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 54

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	133.3	15.1	75.1#

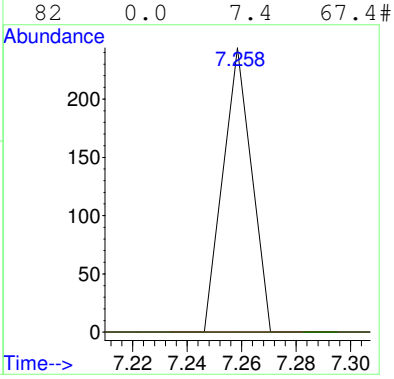


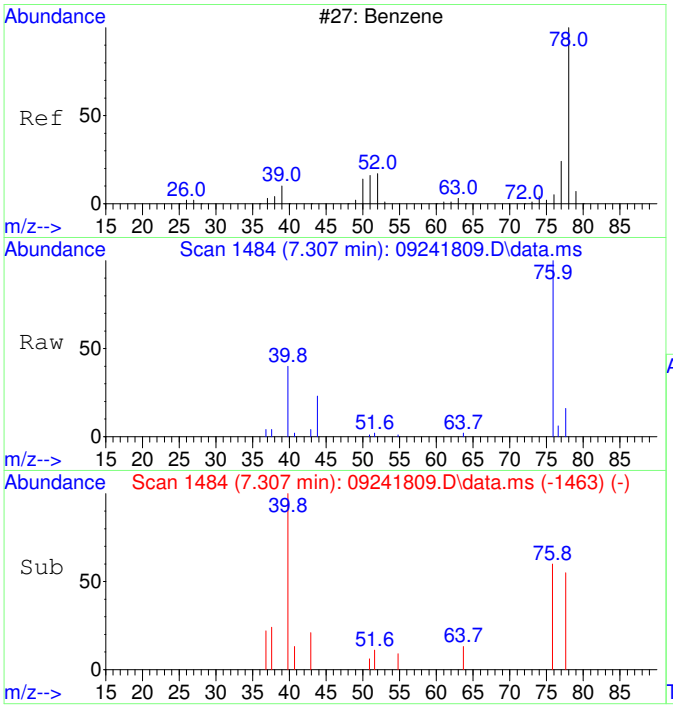


#32
Carbon tetrachloride SCAN
Concen: 44.03 ug/L
RT: 7.258 min Scan# 1480
Delta R.T. 0.049 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:117 Resp: 178

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

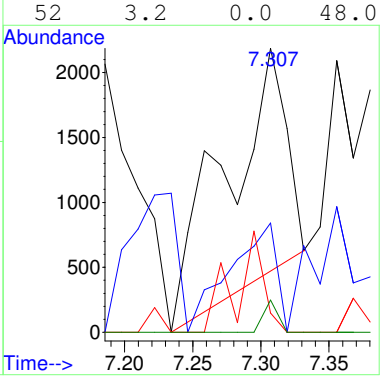


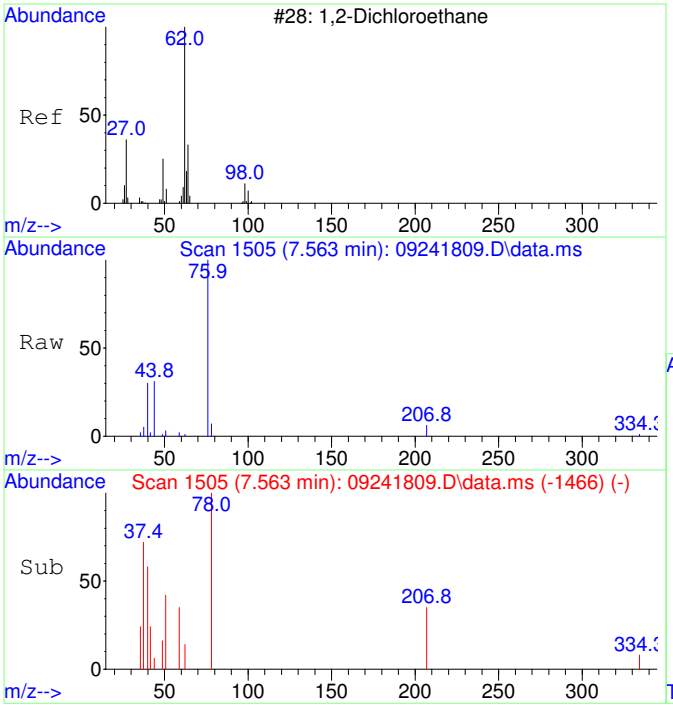


#33
Benzene SCAN
Concen: 460.12 ug/L
RT: 7.307 min Scan# 1484
Delta R.T. -0.243 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 78 Resp: 5630

Ion	Ratio	Lower	Upper
78	100		
77	21.1	3.0	63.0
51	19.9	0.0	56.4
52	3.2	0.0	48.0

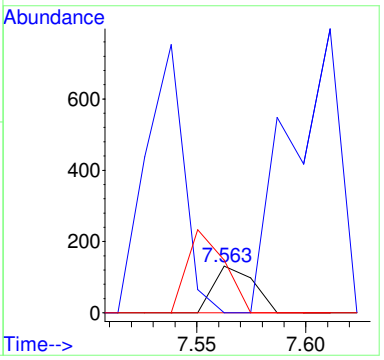


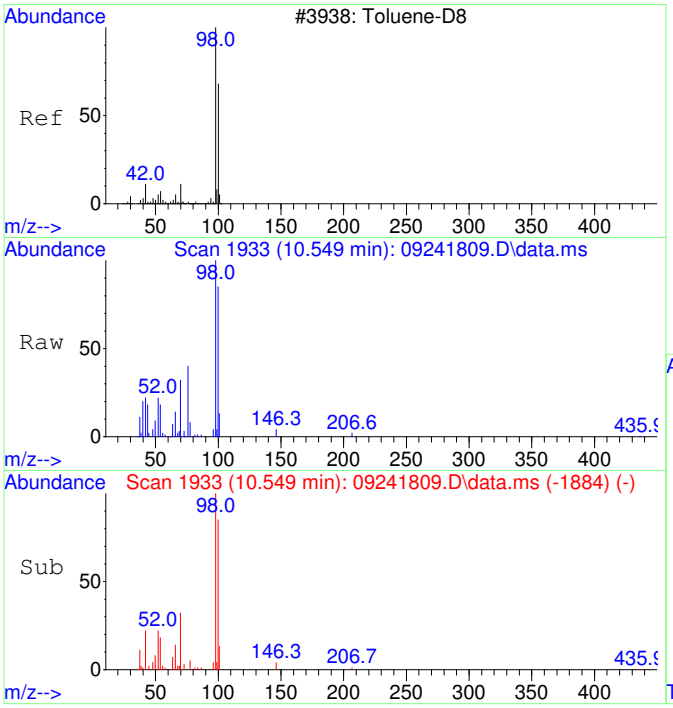


#34
1,2-Dichloroethane SCAN
Concen: 40.02 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. -0.024 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 62 Resp: 167

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	166.5	10.4	70.4#

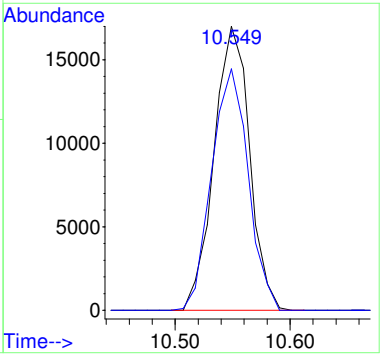


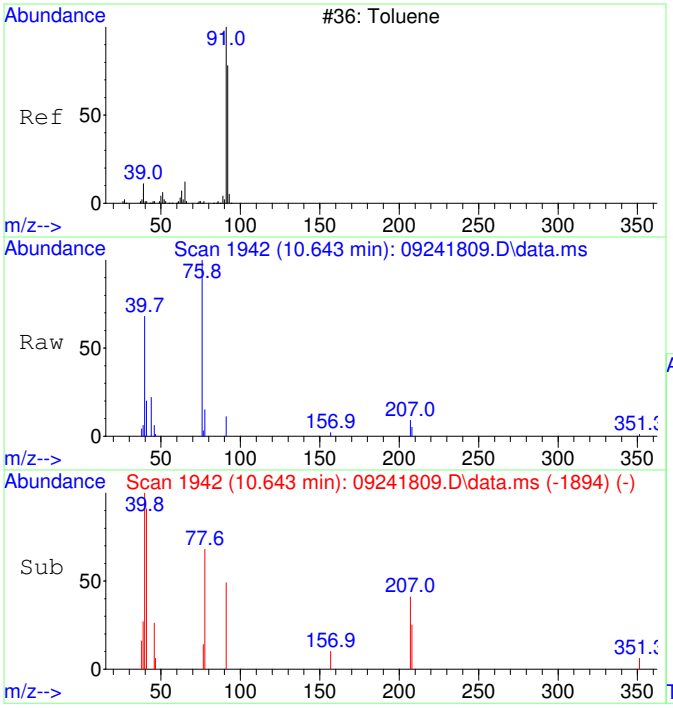


#36
Toluene-d8 SCAN
Concen: 3453.04 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 98 Resp: 36675

Ion	Ratio	Lower	Upper
98	100		
100	87.2	39.5	99.5

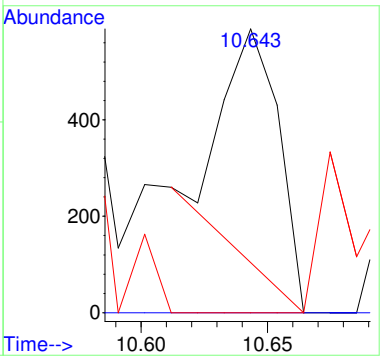


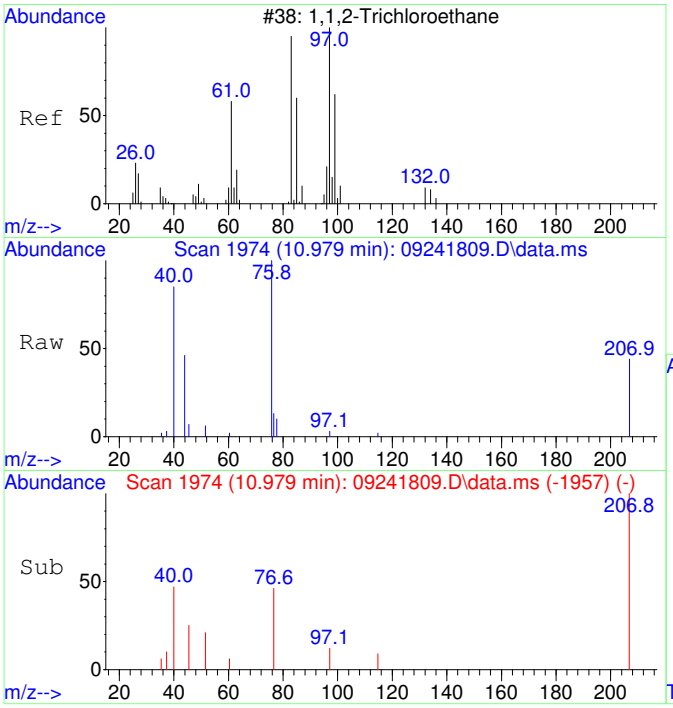


#37
Toluene SCAN
Concen: 48.28 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 655

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.6	86.6#
65	0.0	0.0	42.3

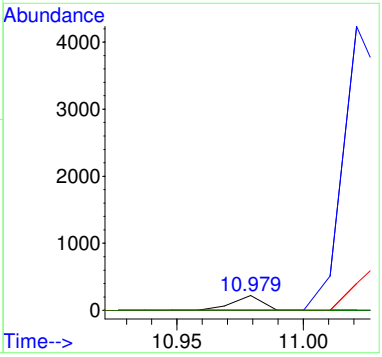


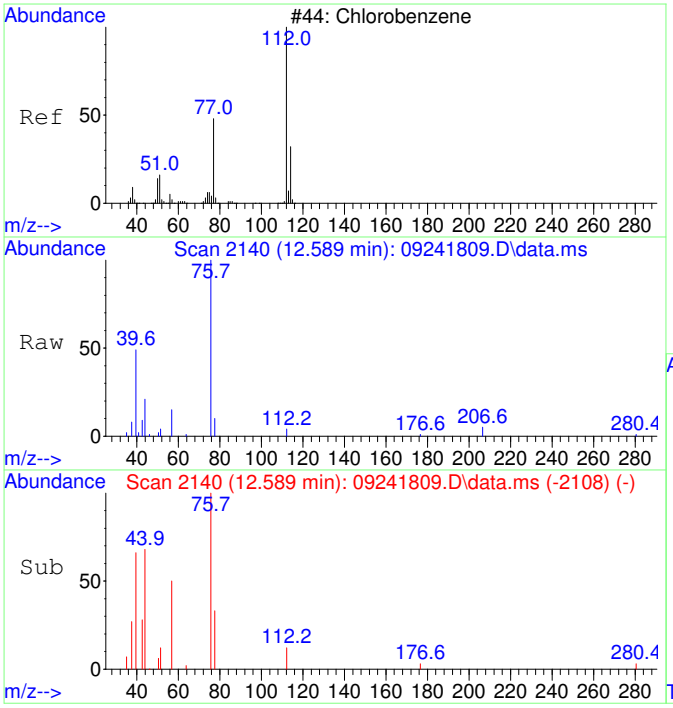


#38
1,1,2-Trichloroethane SCAN
Concen: 69.62 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. -0.325 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 181

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

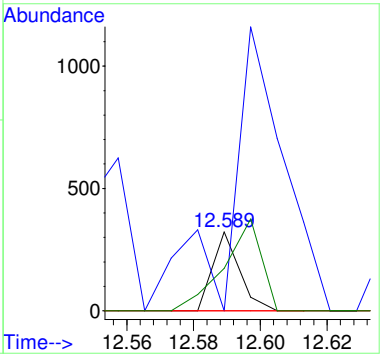


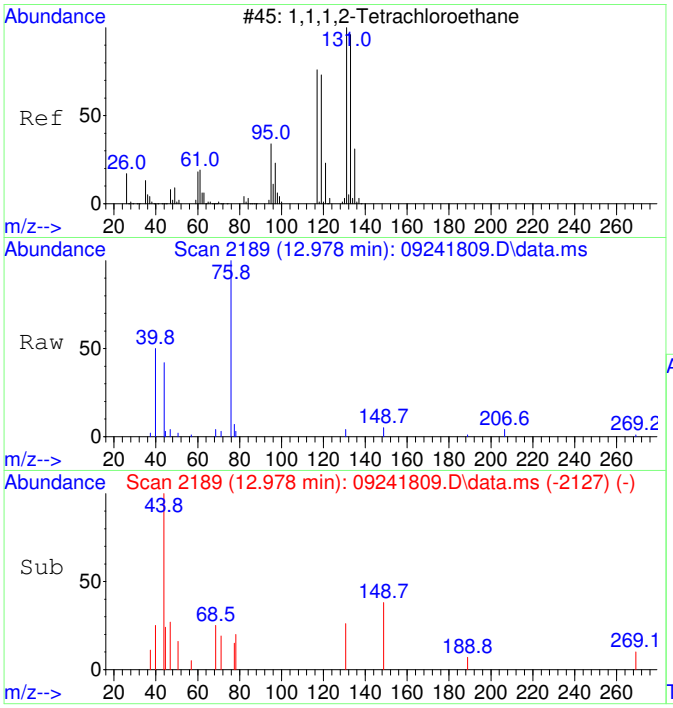


#40
Chlorobenzene SCAN
Concen: 21.99 ug/L
RT: 12.589 min Scan# 2140
Delta R.T. -0.246 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:112 Resp: 181

Ion	Ratio	Lower	Upper
112	100		
77	503.3	28.4	88.4#
114	0.0	0.0	59.5
51	162.4	0.0	53.7#

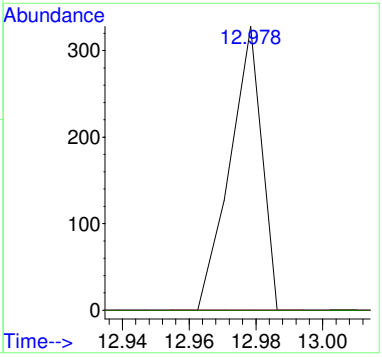


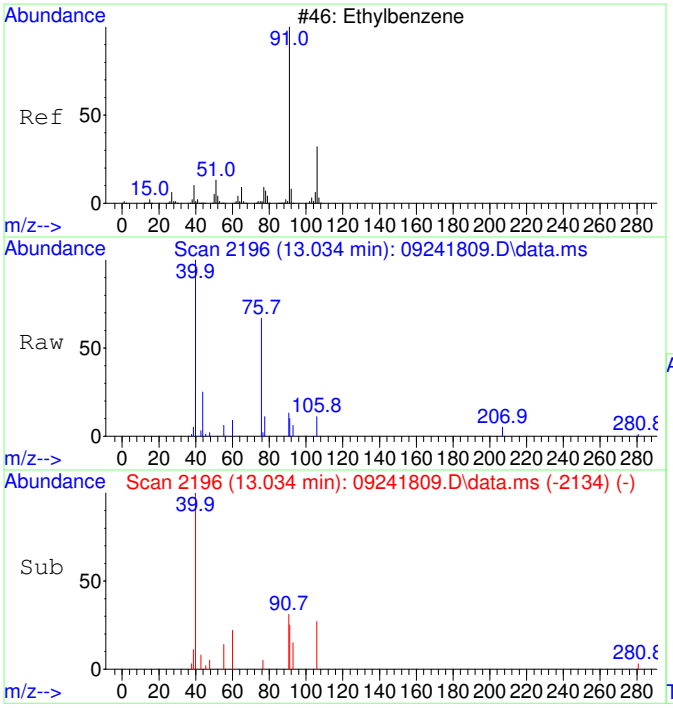


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 73.87 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:131 Resp: 217

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

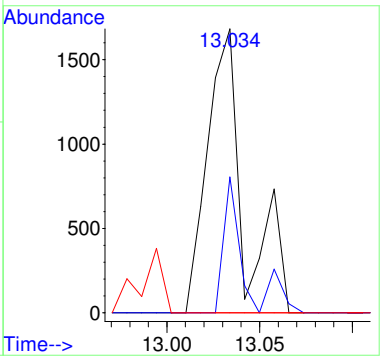


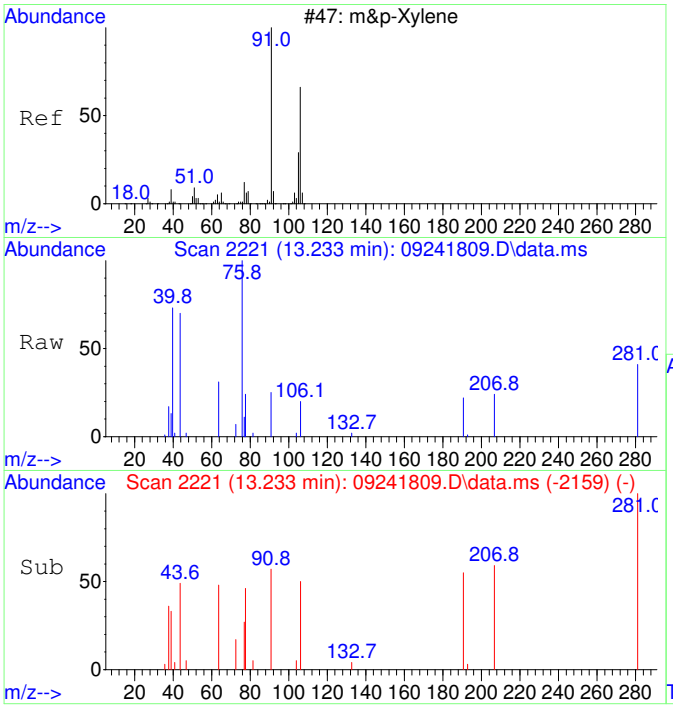


#42
Ethylbenzene SCAN
Concen: 146.35 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 2308

Ion	Ratio	Lower	Upper
91	100		
106	20.0	3.2	63.2
51	0.0	0.0	40.1

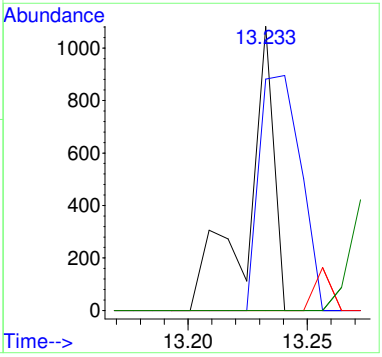


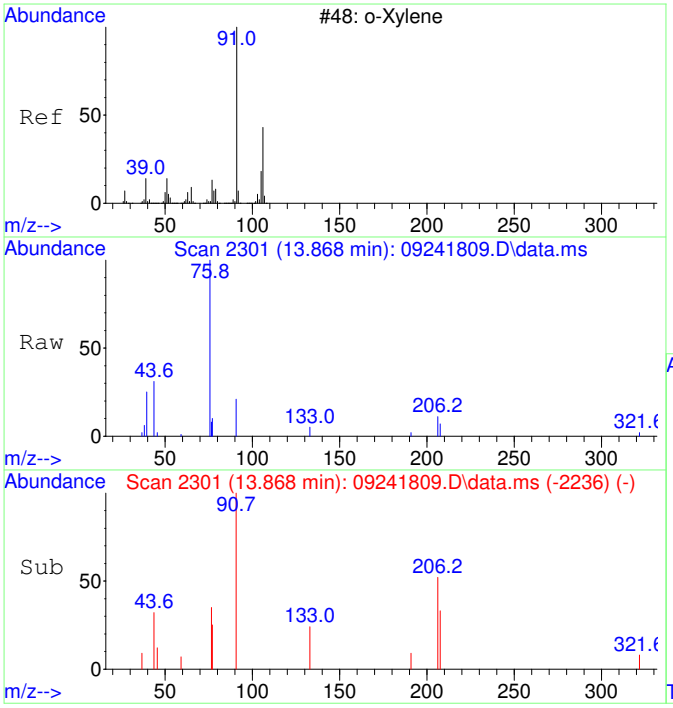


#43
m&p-Xylene SCAN
Concen: 38.60 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 845

Ion	Ratio	Lower	Upper
91	100		
106	128.5	20.1	80.1#
105	0.0	0.0	51.1
51	0.0	0.0	40.7

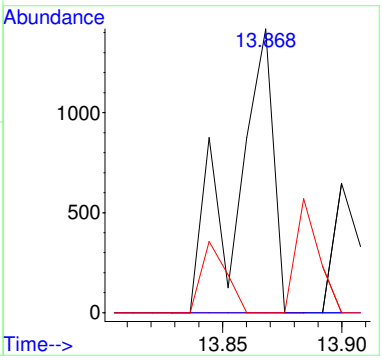


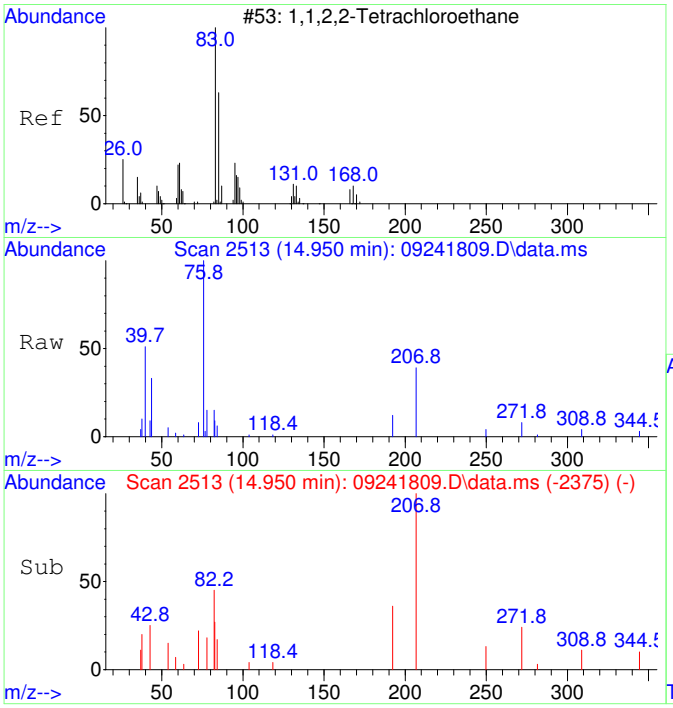


#44
o-Xylene SCAN
Concen: 126.01 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.016 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1570

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	24.3	0.0	55.2

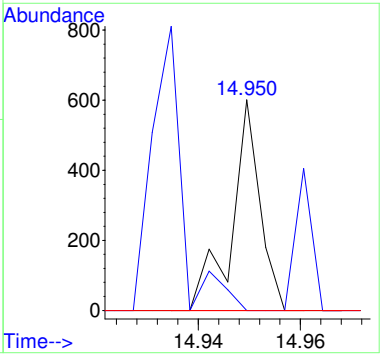


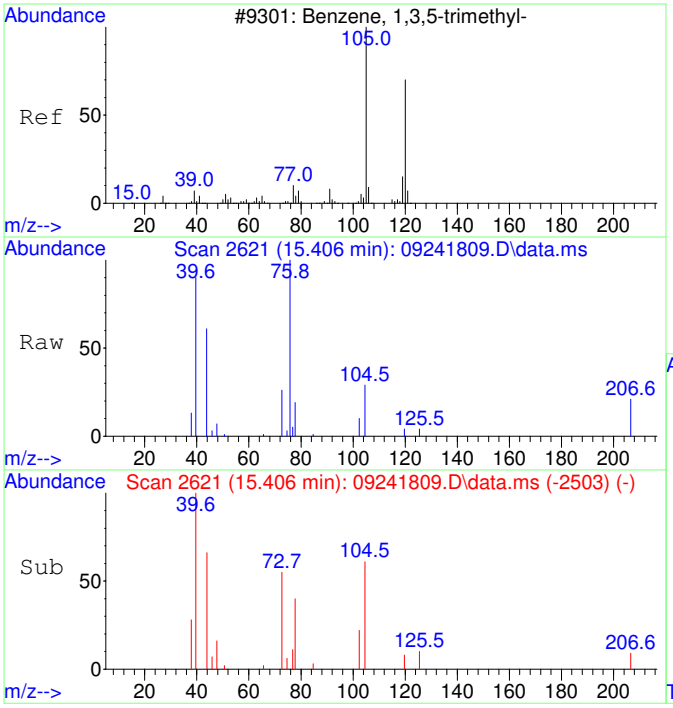


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 39.12 ug/L
RT: 14.950 min Scan# 2513
Delta R.T. 0.011 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 231

Ion	Ratio	Lower	Upper
83	100		
85	39.0	31.6	91.6
95	0.0	0.0	49.0

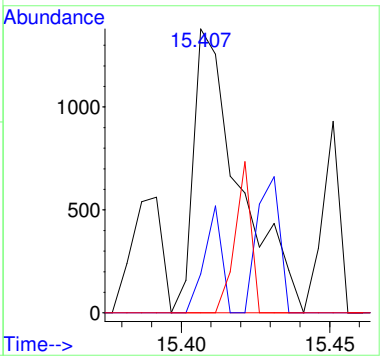


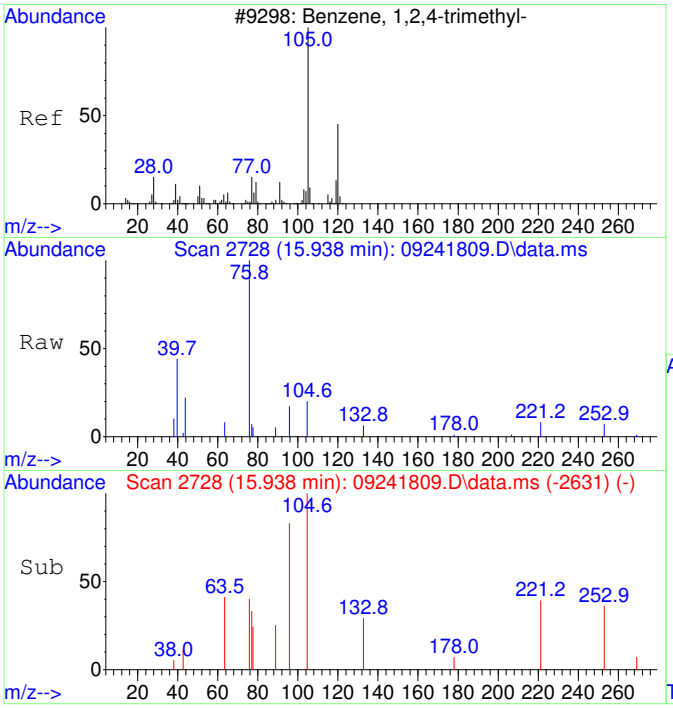


#46
1,3,5-Trimethylbenzene SCAN
Concen: 120.61 ug/L
RT: 15.406 min Scan# 2621
Delta R.T. -0.006 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1490

Ion	Ratio	Lower	Upper
105	100		
120	14.2	16.8	76.8#
119	0.0	0.0	41.5

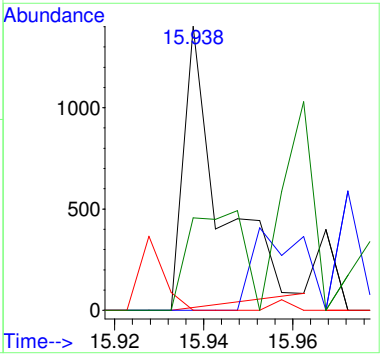


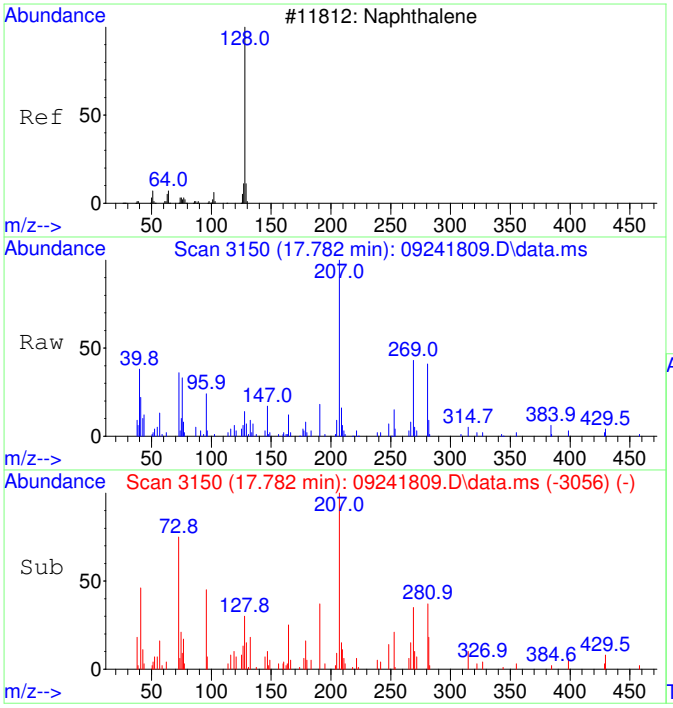


#47
1,2,4-Trimethylbenzene SCAN
Concen: 61.61 ug/L
RT: 15.938 min Scan# 2728
Delta R.T. -0.016 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 780

Ion	Ratio	Lower	Upper
105	100		
120	39.9	15.4	75.4
119	0.0	0.0	41.7
77	53.5	0.0	42.0#

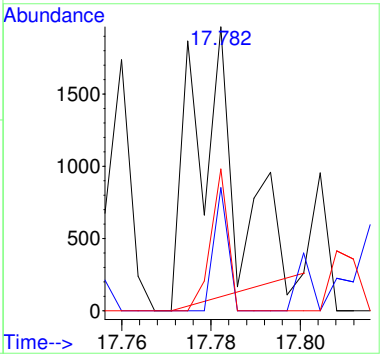




#48
Naphthalene SCAN
Concen: 70.69 ug/L
RT: 17.782 min Scan# 3150
Delta R.T. -0.152 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:128 Resp: 1277

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	43.9
129	20.8	0.0	40.5



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241809.D
Acq On : 24 Sep 2018 15:25
InstName : AG5975C
Operator : RH
Sample : B18I067-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

M.I. Performed By:
RH at 3:03 pm, Sep 26, 2018

M.I. Approved By:
Kathy O'Brien at 10:43 am, Se

Quant Time: Sep 24 16:31:54 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

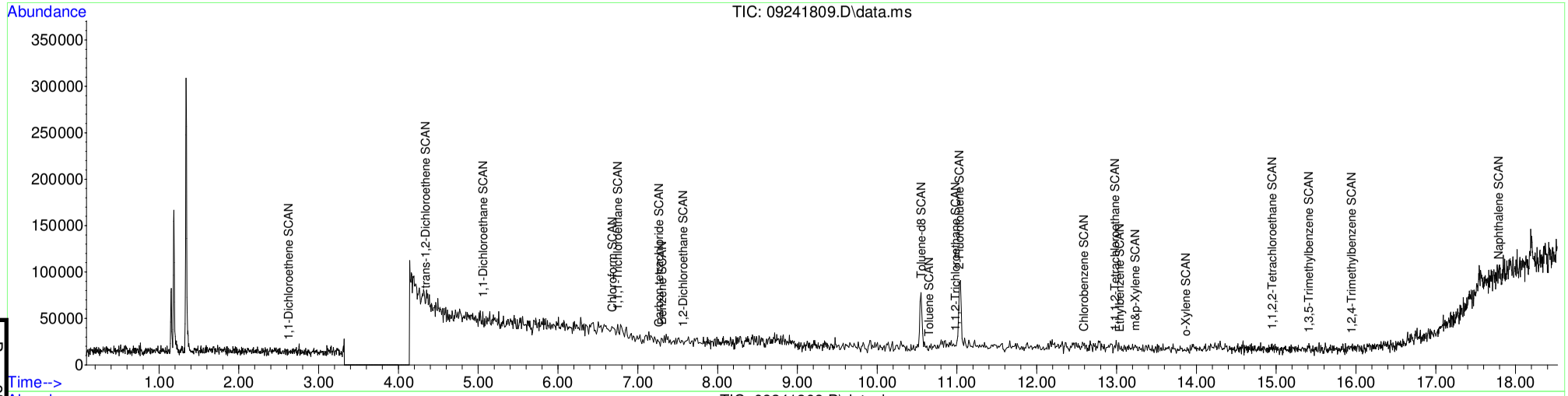
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	100827	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	81764	4992.50	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 99.85%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.104	61	228m	53.96	ug/L	
3] trans-1,2-Dichloroethene	4.303	61	253	56.12	ug/L	74
4] 1,1-Dichloroethane	5.066	63	351	62.55	ug/L	77
5] cis-1,2-Dichloroethene	6.101	61	338	61.06	ug/L	87
6] Chloroform	6.688	83	369	61.90	ug/L	95
7] 1,1,1-Trichloroethane	6.943	97	370	63.06	ug/L	91
8] Carbon tetrachloride	7.211	117	343	61.72	ug/L	80
9] Benzene	7.552	78	1181	72.95	ug/L	64
10] 1,2-Dichloroethane	7.588	62	341	65.36	ug/L #	1
11] Trichloroethene	8.624	130	278	62.48	ug/L	90
13] Toluene	10.645	91	1270	57.84	ug/L	87
14] 1,1,2-Trichloroethane	11.295	97	286	63.01	ug/L	86
15] Tetrachloroethene	11.495	166	398	64.33	ug/L	94
16] Chlorobenzene	12.837	112	886	56.53	ug/L	80
17] 1,1,1,2-Tetrachloroethane	12.988	131	365	68.63	ug/L	78
18] Ethylbenzene	13.035	91	1760	66.79	ug/L	93
19] m&p-Xylene	13.234	91	2605	128.08	ug/L	95
20] o-Xylene	13.846	91	1294	60.07	ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.947	83	505	54.44	ug/L	89
22] 1,3,5-Trimethylbenzene	15.413	105	1748	71.72	ug/L	91
23] 1,2,4-Trimethylbenzene	15.954	105	1600	65.63	ug/L	98
24] Naphthalene	17.936	128	631	15.77	ug/L #	1
25) 2-Fluorotoluene SCAN	11.032	109	60338	5135.57	ug/L	95
26) 1,1-Dichloroethene SCAN	2.620	61	157	53.55	ug/L #	30
27) trans-1,2-Dichloroethe...	4.341	61	280	82.04	ug/L #	23
28) 1,1-Dichloroethane SCAN	5.058	63	89	20.50	ug/L #	43
30) Chloroform SCAN	6.675	83	347	75.28	ug/L #	28
31) 1,1,1-Trichloroethane ...	6.748	97	54	13.16	ug/L #	1
32) Carbon tetrachloride SCAN	7.258	117	178	44.03	ug/L #	13
33) Benzene SCAN	7.307	78	5630	460.12	ug/L	79
34) 1,2-Dichloroethane SCAN	7.563	62	167	40.02	ug/L #	1
36) Toluene-d8 SCAN	10.549	98	36675	3453.04	ug/L	78
37) Toluene SCAN	10.643	91	655	48.28	ug/L #	31
38) 1,1,2-Trichloroethane ...	10.979	97	181	69.62	ug/L #	10
40) Chlorobenzene SCAN	12.589	112	181	21.99	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.978	131	217	73.87	ug/L #	13
42) Ethylbenzene SCAN	13.034	91	2308	146.35	ug/L #	76
43) m&p-Xylene SCAN	13.233	91	845	38.60	ug/L #	15
44) o-Xylene SCAN	13.868	91	1570	126.01	ug/L #	50
45) 1,1,2,2-Tetrachloroeth...	14.950	83	231	39.12	ug/L #	68
46) 1,3,5-Trimethylbenzene...	15.406	105	1490	120.61	ug/L #	55
47) 1,2,4-Trimethylbenzene...	15.938	105	780	61.61	ug/L #	71
48) Naphthalene SCAN	17.782	128	1277	70.69	ug/L	87

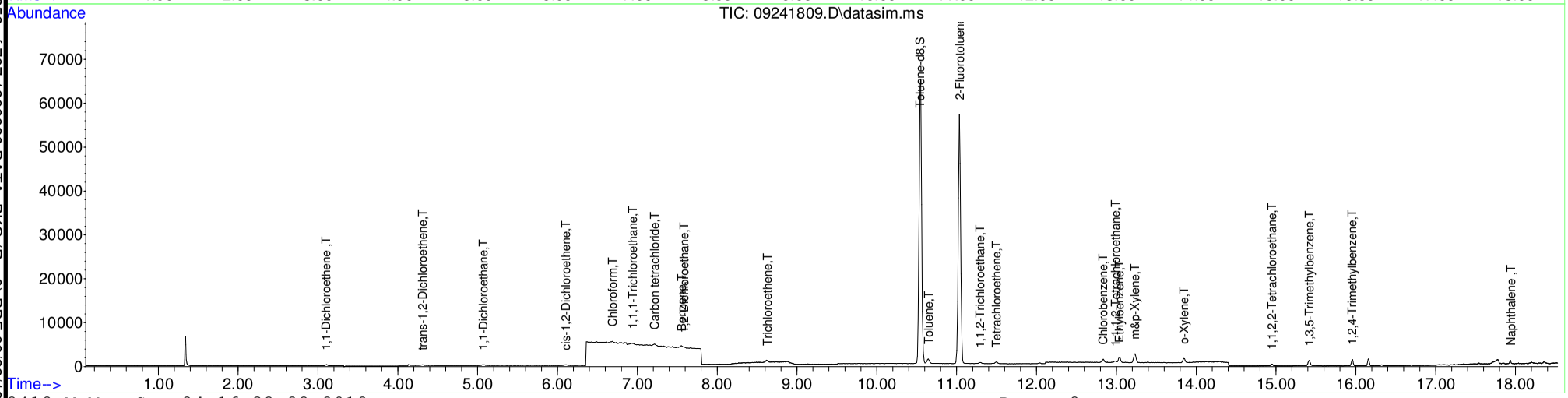
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241809.D
Acq On : 24 Sep 2018 15:25
InstName : AG5975C
Operator : RH
Sample : B18I067-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 16:31:54 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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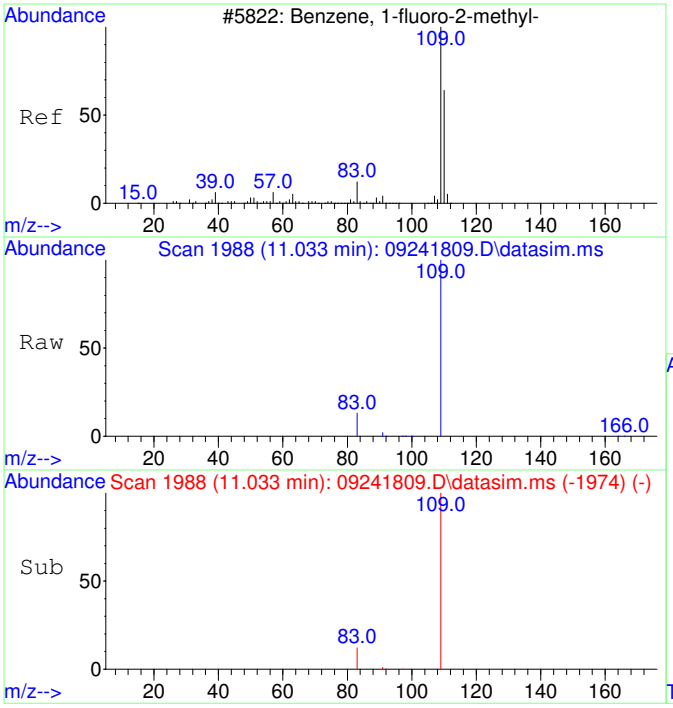
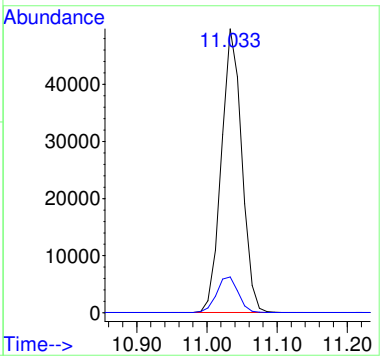
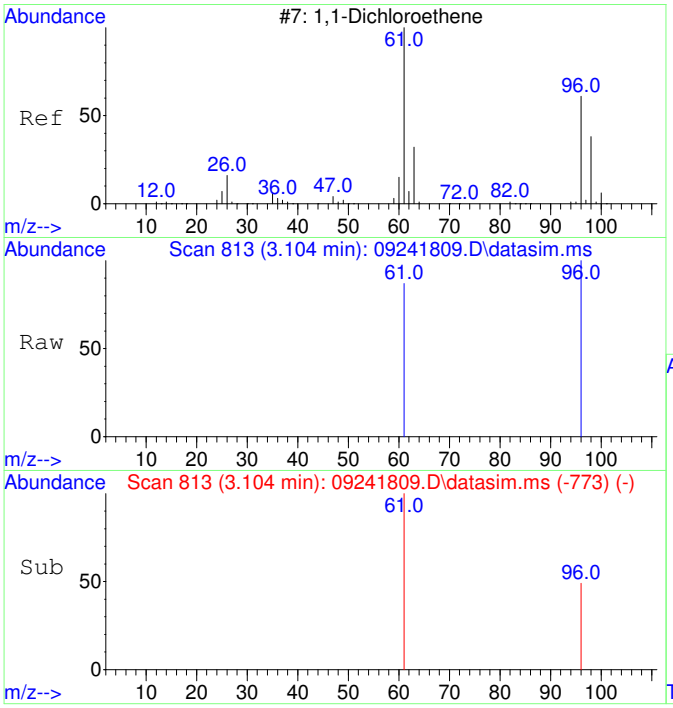


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:109 Resp: 100827

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

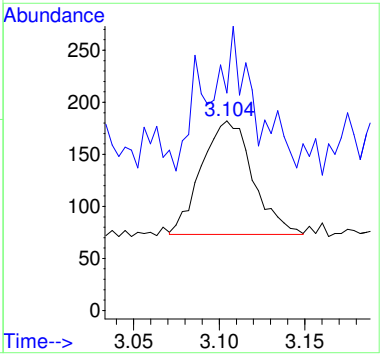


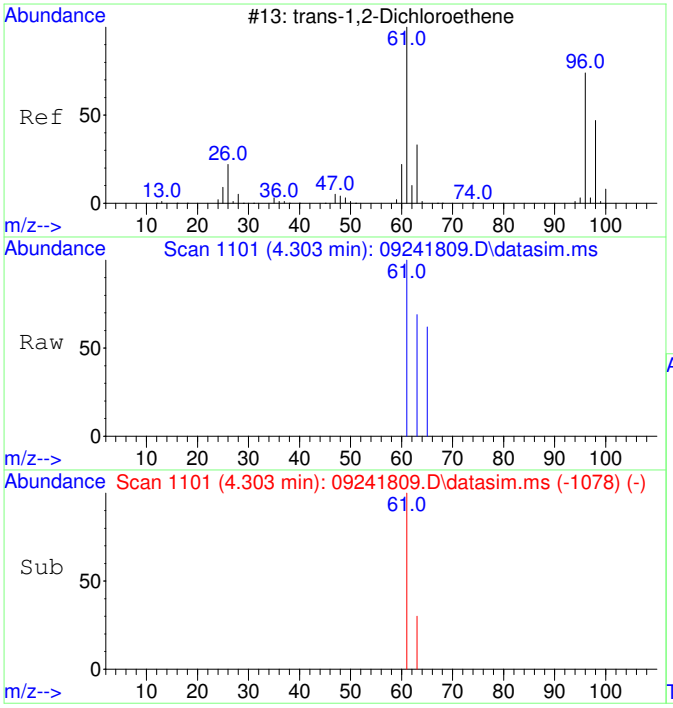


#2
1,1-Dichloroethene
Concen: 53.96 ug/L m
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 228

Ion	Ratio	Lower	Upper
61	100		
96	128.9	28.7	88.7#

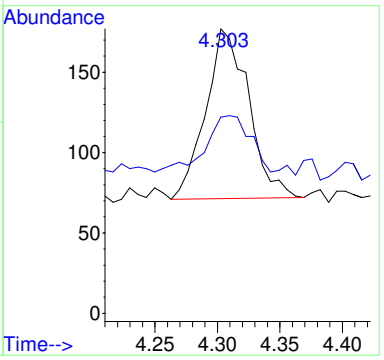


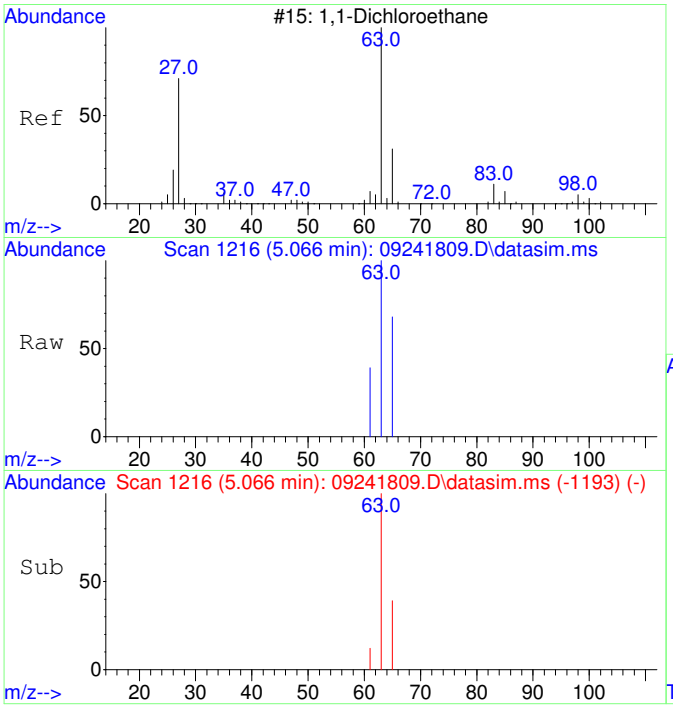


#3
trans-1,2-Dichloroethene
Concen: 56.12 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 253

Ion	Ratio	Lower	Upper
61	100		
63	46.6	2.0	62.0

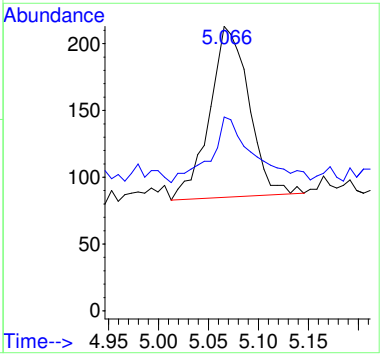


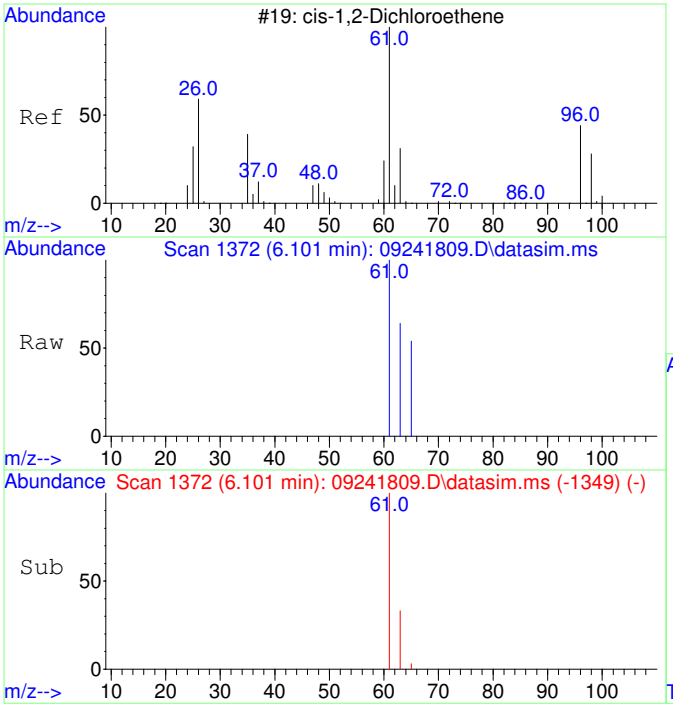


#4
1,1-Dichloroethane
Concen: 62.55 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 63 Resp: 351

Ion	Ratio	Lower	Upper
63	100		
65	44.4	1.5	61.5

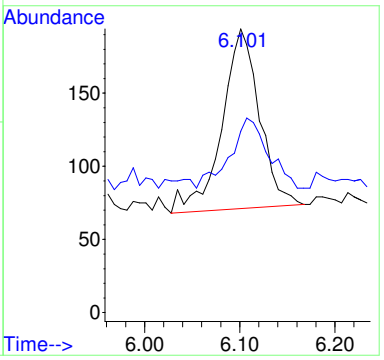


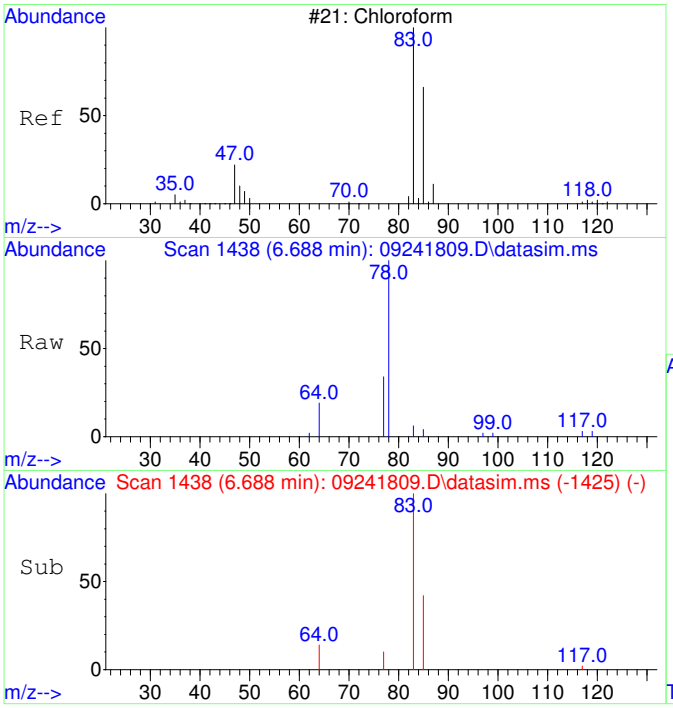


#5
cis-1,2-Dichloroethene
Concen: 61.06 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 338

Ion	Ratio	Lower	Upper
61	100		
63	39.3	2.2	62.2

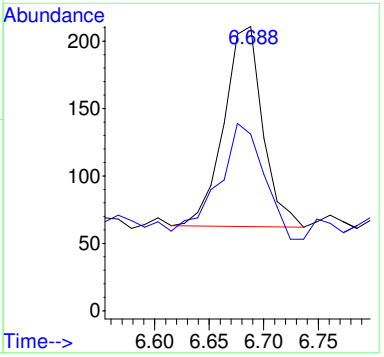


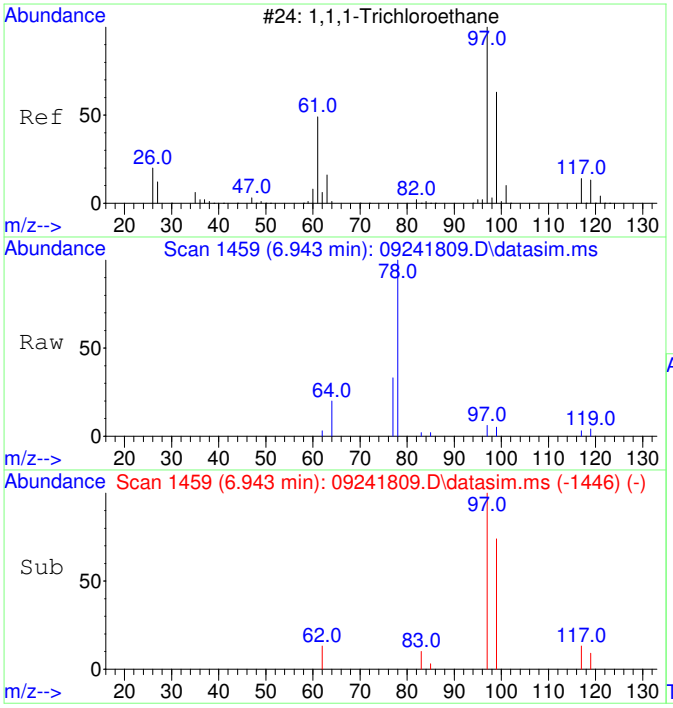


#6
Chloroform
Concen: 61.90 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 369

Ion	Ratio	Lower	Upper
83	100		
85	68.6	34.8	94.8

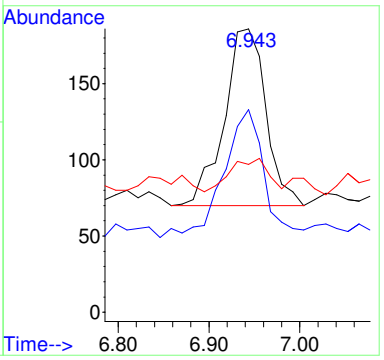


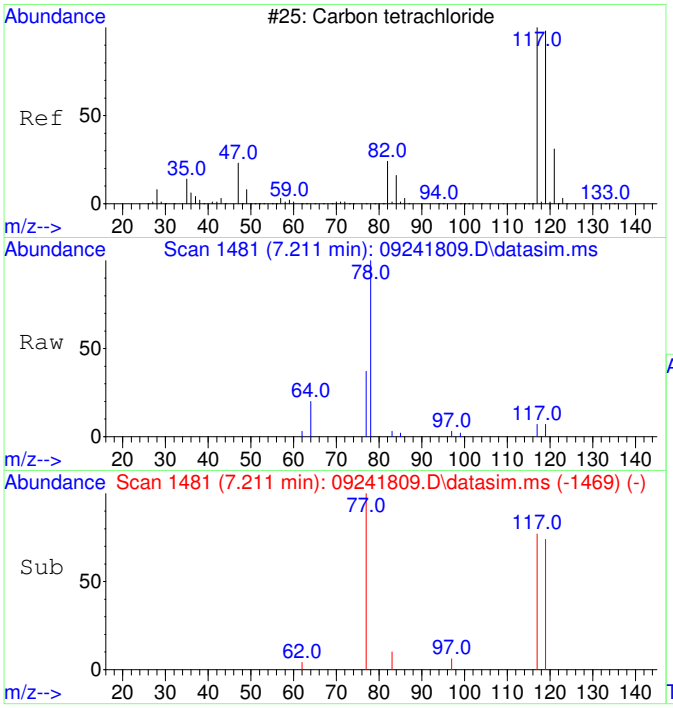


#7
1,1,1-Trichloroethane
Concen: 63.06 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 370

Ion	Ratio	Lower	Upper
97	100		
99	70.5	34.6	94.6
117	18.9	0.0	42.9

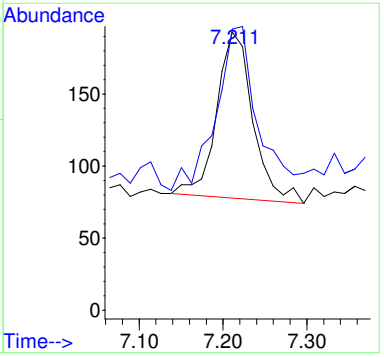


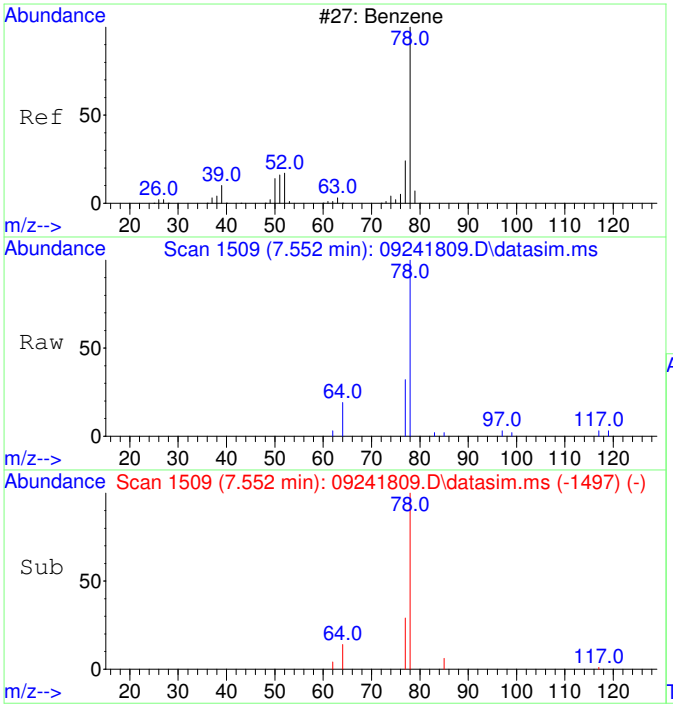


#8
Carbon tetrachloride
Concen: 61.72 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:117 Resp: 343

Ion	Ratio	Lower	Upper
117	100		
119	115.5	65.9	125.9

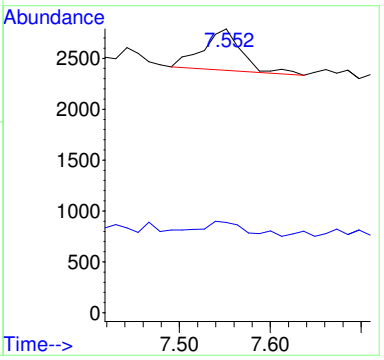


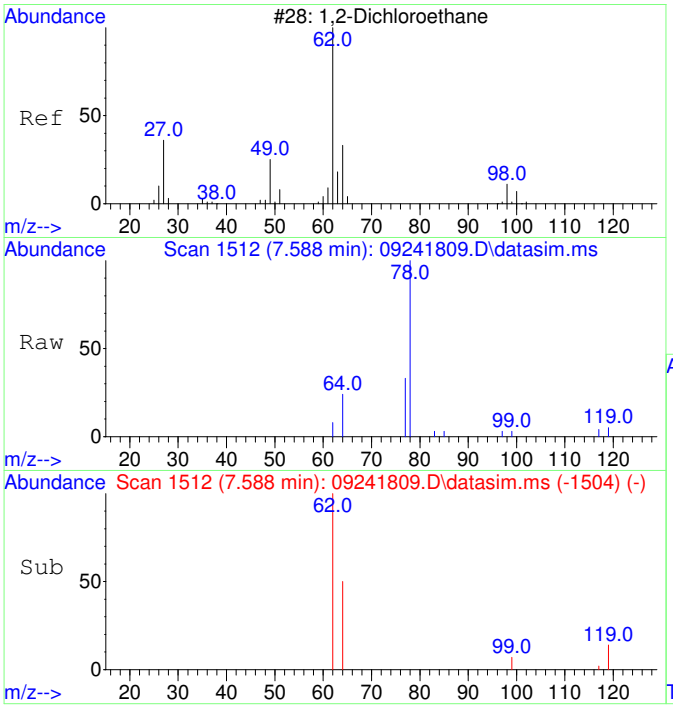


#9
Benzene
Concen: 72.95 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 78 Resp: 1181

Ion	Ratio	Lower	Upper
78	100		
77	40.4	0.0	53.0

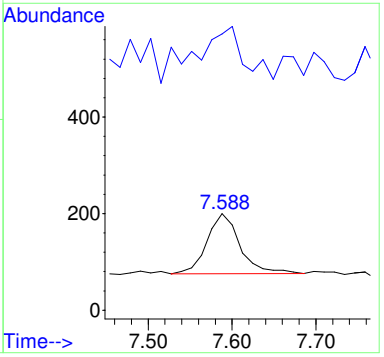


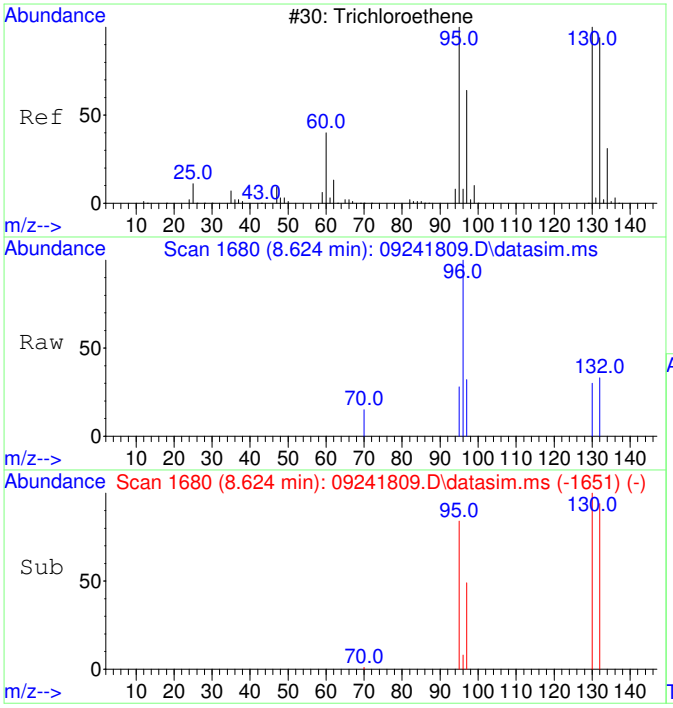


#10
1,2-Dichloroethane
Concen: 65.36 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 62 Resp: 341

Ion	Ratio	Lower	Upper
62	100		
64	129.0	2.3	62.3#

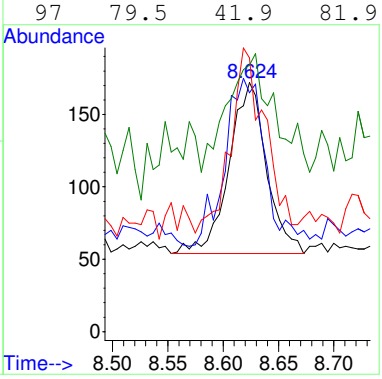


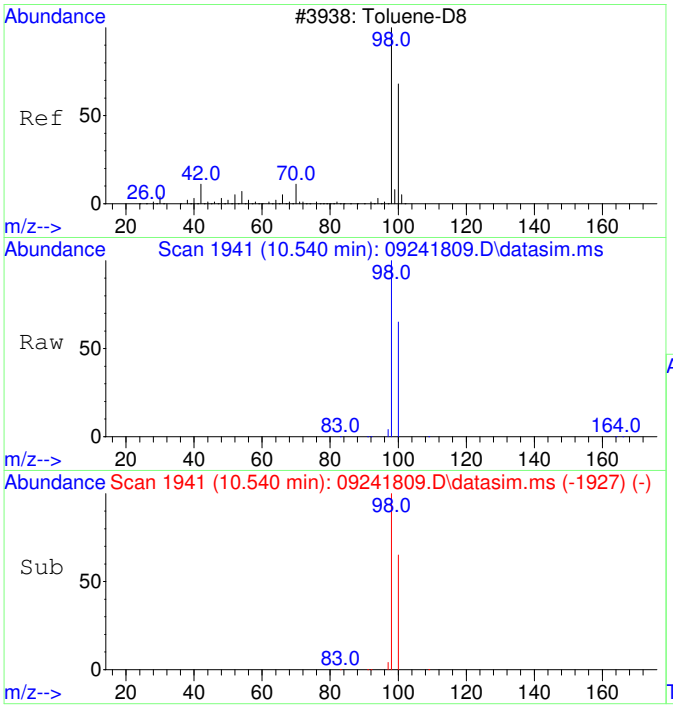


#11
Trichloroethene
Concen: 62.48 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:130 Resp: 278

Ion	Ratio	Lower	Upper
130	100		
95	106.5	66.0	126.0
132	100.0	78.8	118.8
97	79.5	41.9	81.9

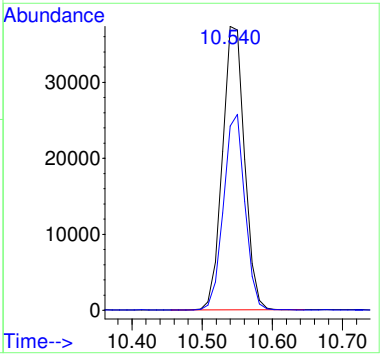


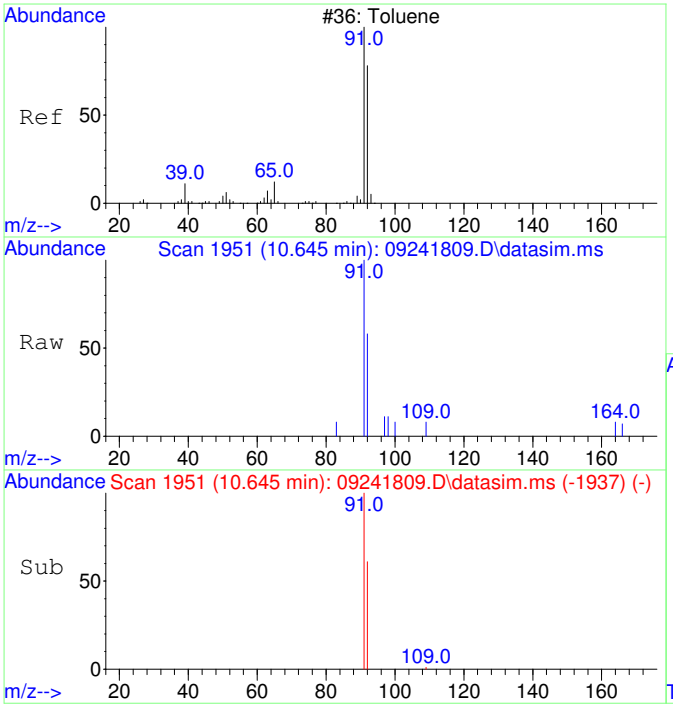


#12
Toluene-d8
Concen: 4992.50 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 98 Resp: 81764

Ion	Ratio	Lower	Upper
98	100		
100	66.8	38.7	98.7

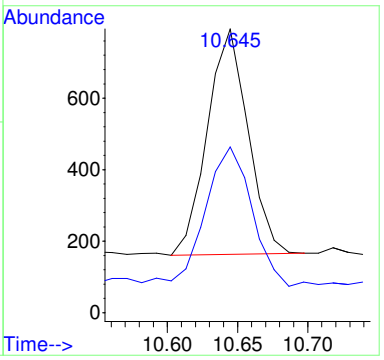


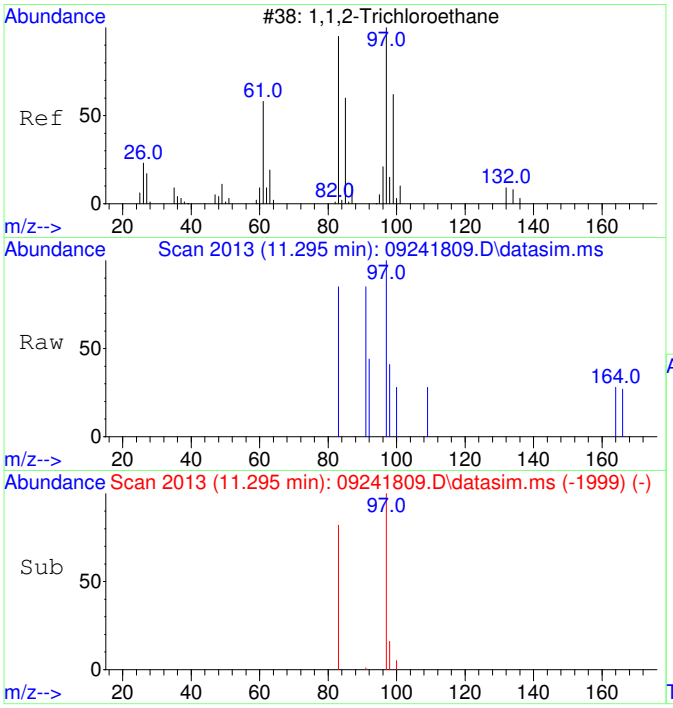


#13
Toluene
Concen: 57.84 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1270

Ion	Ratio	Lower	Upper
91	100		
92	69.5	30.0	90.0

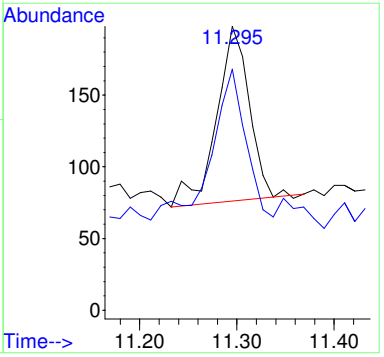


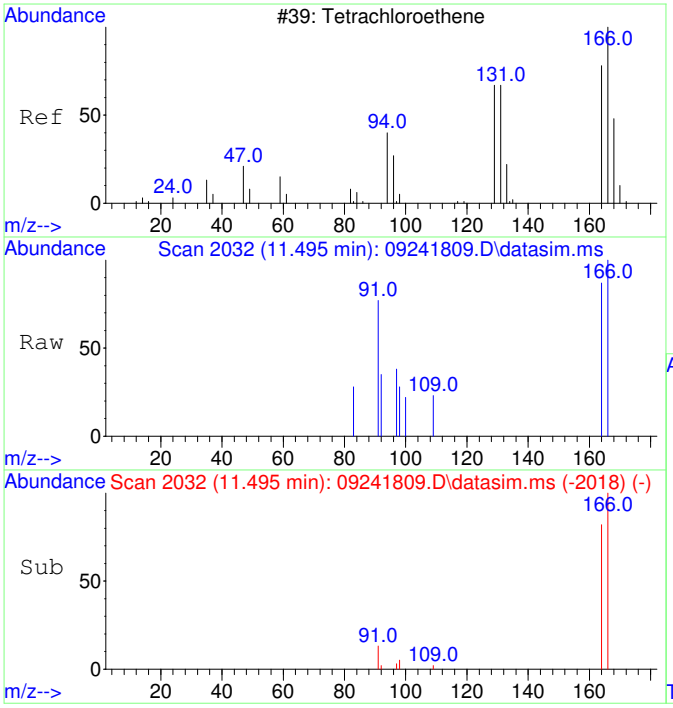


#14
1,1,2-Trichloroethane
Concen: 63.01 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 286

Ion	Ratio	Lower	Upper
97	100		
83	95.8	53.4	113.4

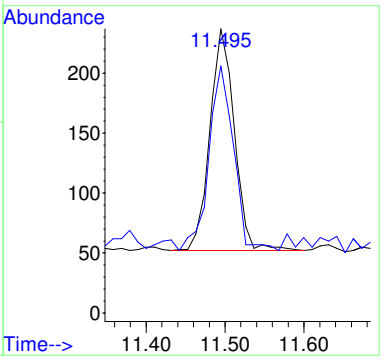


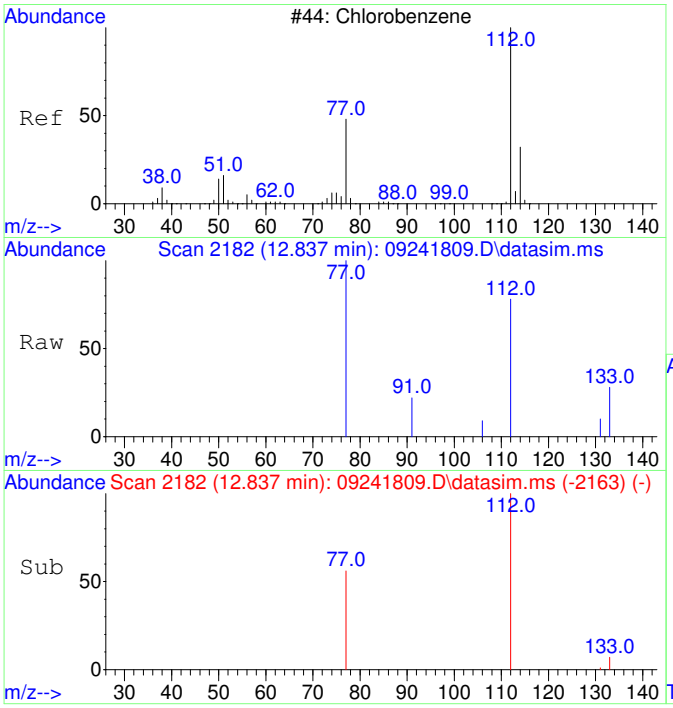


#15
Tetrachloroethene
Concen: 64.33 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:166 Resp: 398

Ion	Ratio	Lower	Upper
166	100		
164	83.4	47.8	107.8

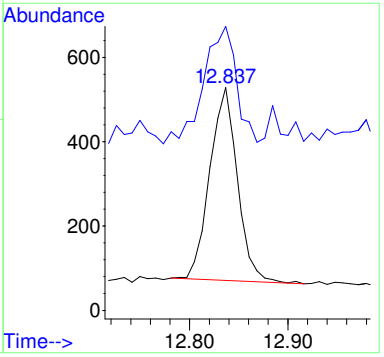


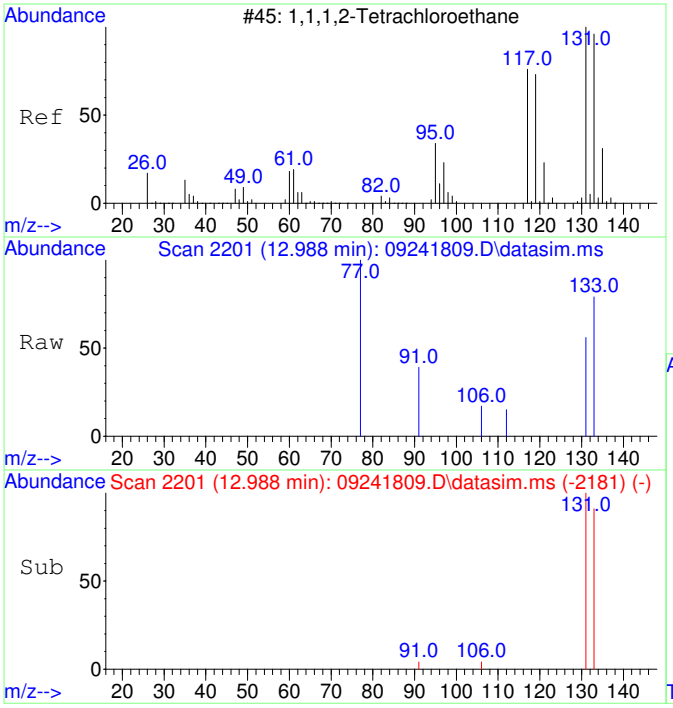


#16
Chlorobenzene
Concen: 56.53 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:112 Resp: 886

Ion	Ratio	Lower	Upper
112	100		
77	72.8	28.1	88.1

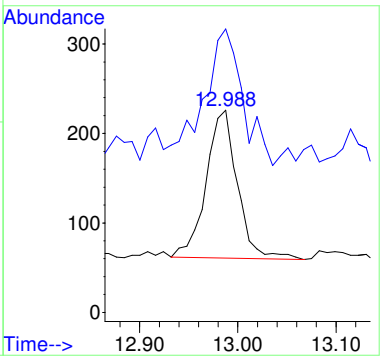


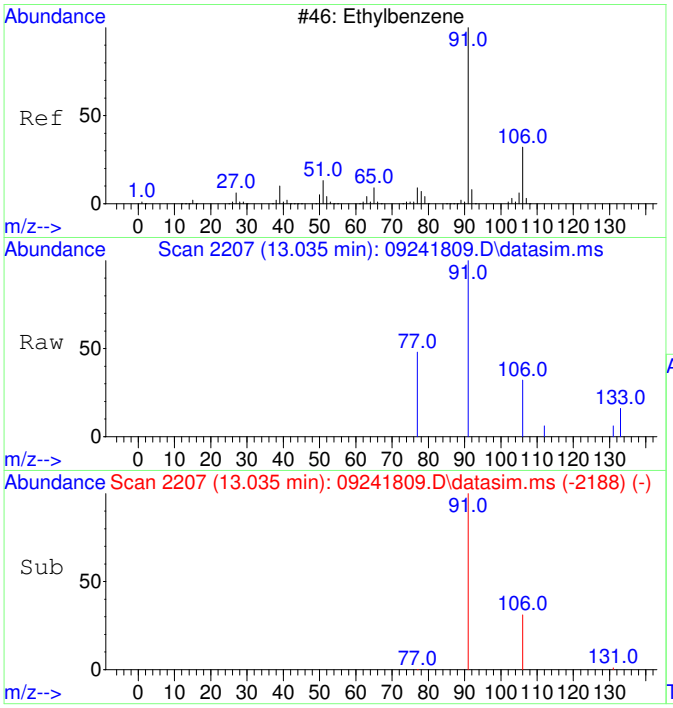


#17
1,1,1,2-Tetrachloroethane
Concen: 68.63 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:131 Resp: 365

Ion	Ratio	Lower	Upper
131	100		
133	118.1	66.2	126.2

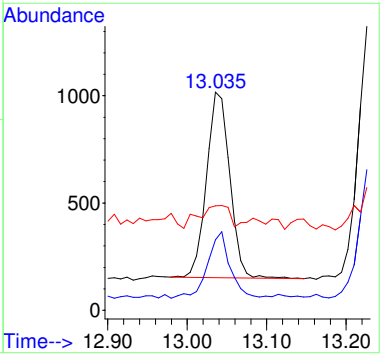


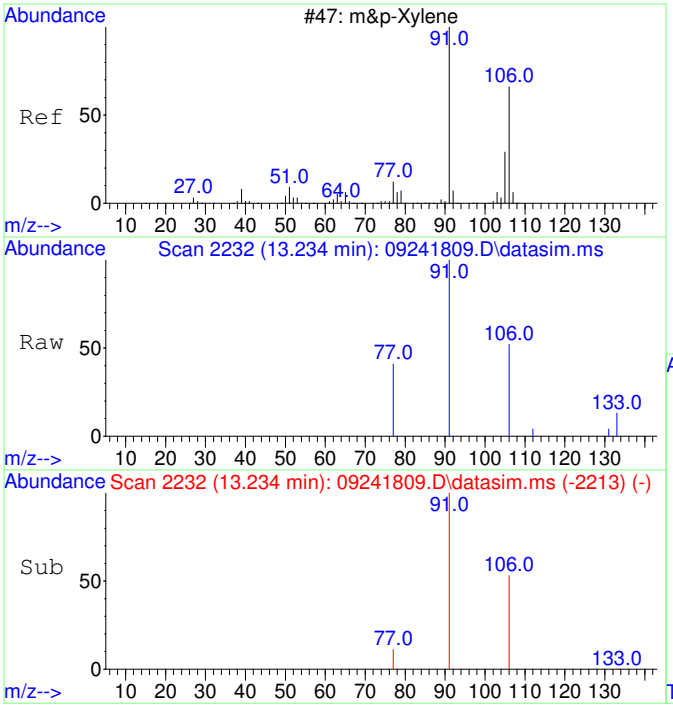


#18
Ethylbenzene
Concen: 66.79 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1760

Ion	Ratio	Lower	Upper
91	100		
106	34.7	2.8	62.8
77	16.6	0.0	38.6

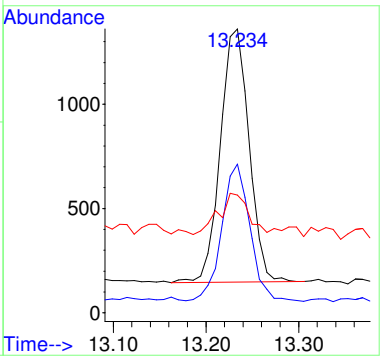


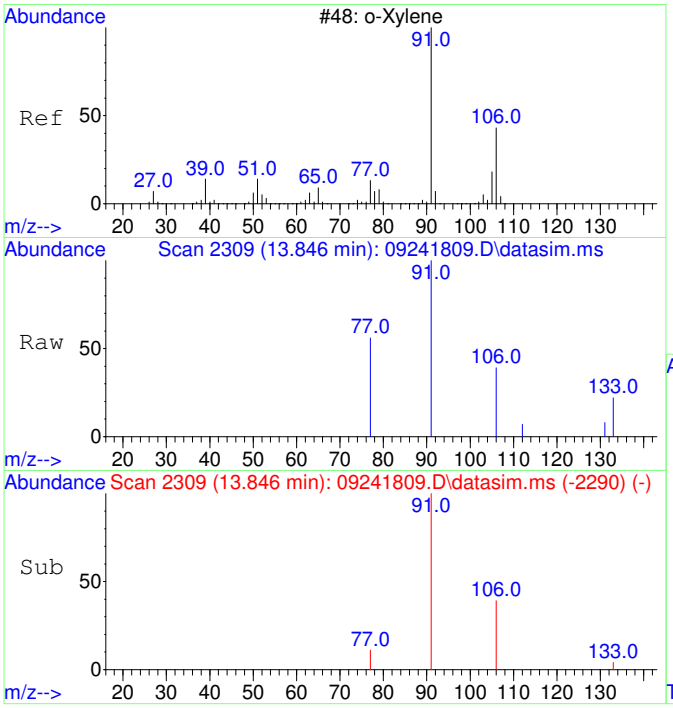


#19
m&p-Xylene
Concen: 128.08 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 2605

Ion	Ratio	Lower	Upper
91	100		
106	53.0	21.2	81.2
77	18.7	0.0	42.9

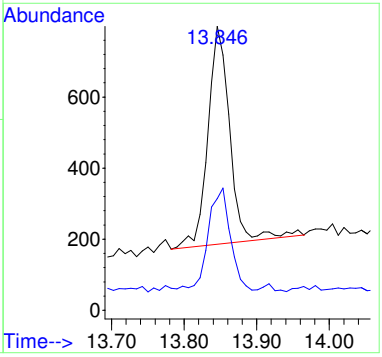


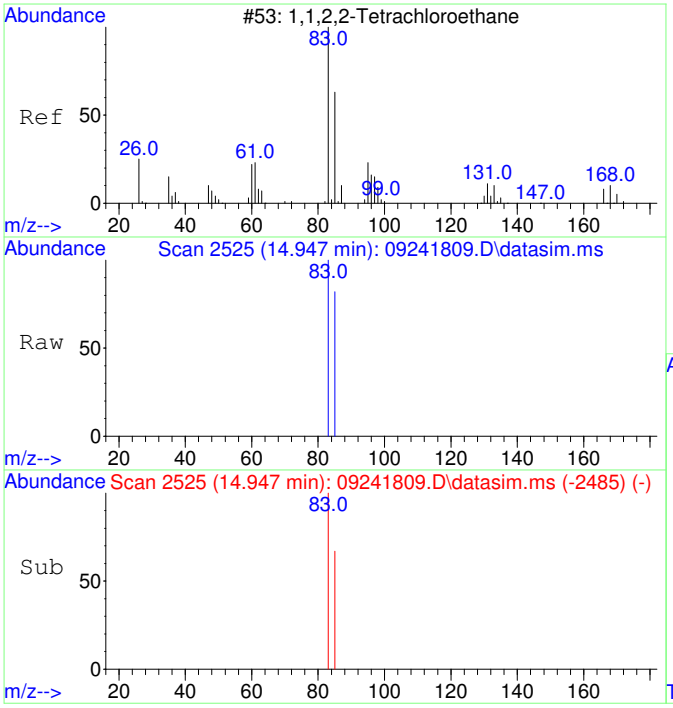


#20
o-Xylene
Concen: 60.07 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1294

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.3	78.3

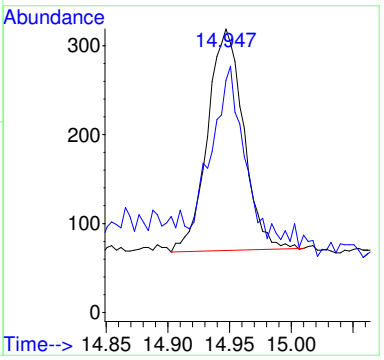


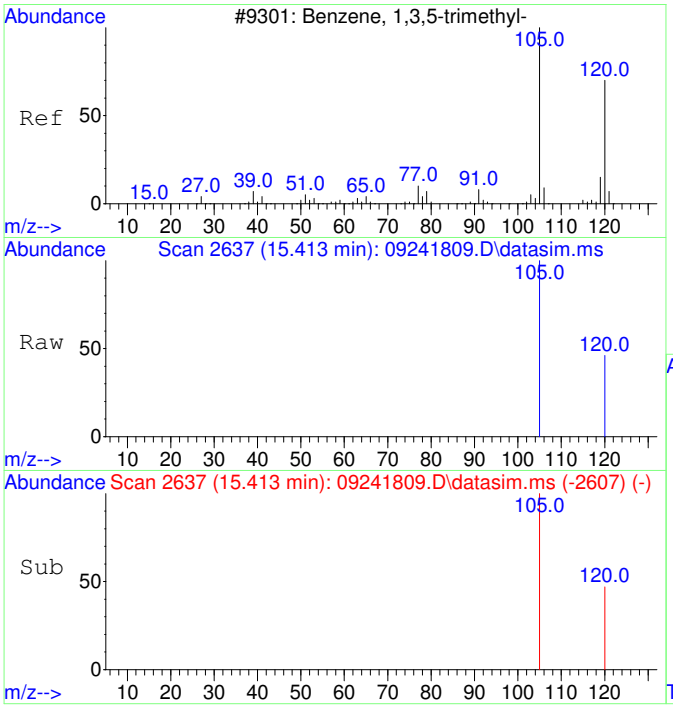


#21
1,1,2,2-Tetrachloroethane
Concen: 54.44 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 505

Ion	Ratio	Lower	Upper
83	100		
85	72.7	34.4	94.4

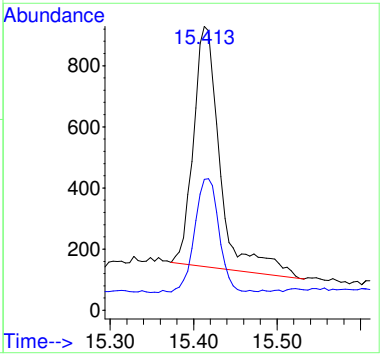


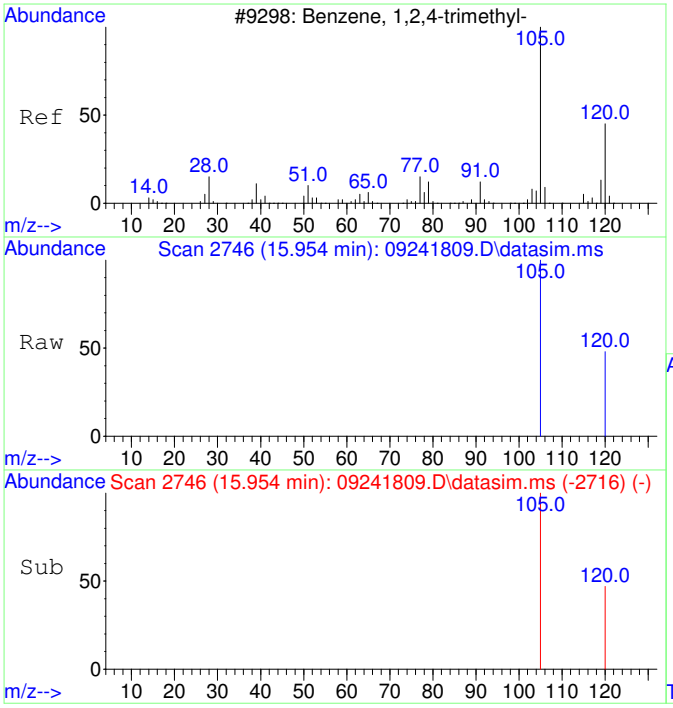


#22
1,3,5-Trimethylbenzene
Concen: 71.72 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.001 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1748

Ion	Ratio	Lower	Upper
105	100		
120	43.0	19.1	79.1

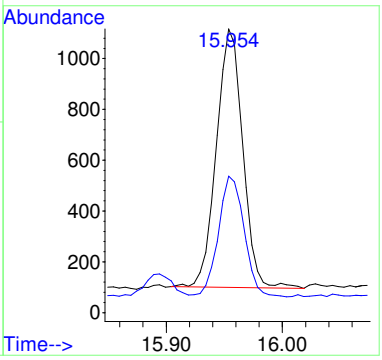


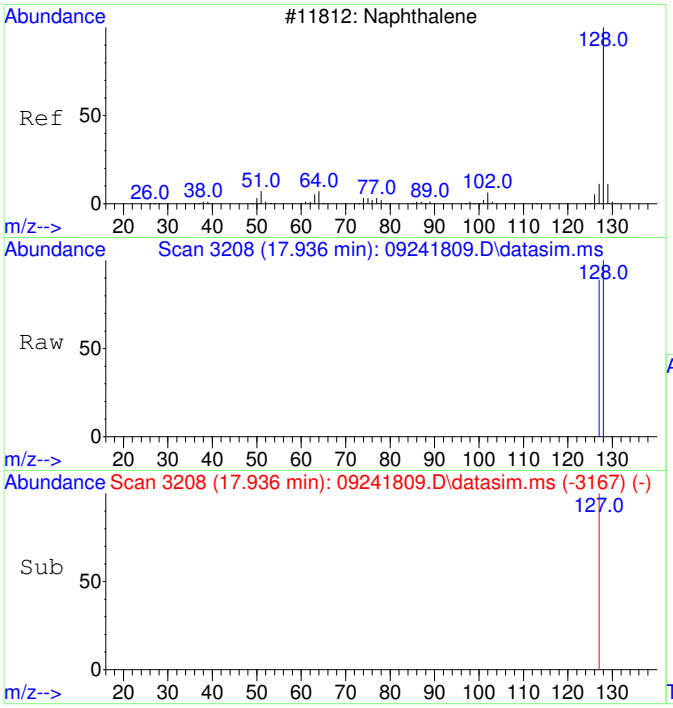


#23
1,2,4-Trimethylbenzene
Concen: 65.63 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1600

Ion	Ratio	Lower	Upper
105	100		
120	44.5	15.5	75.5

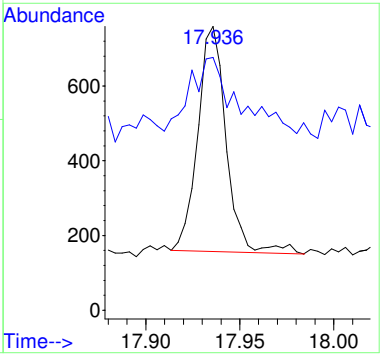


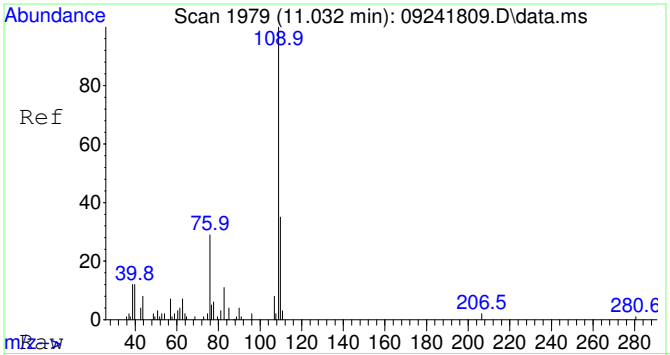


#24
Naphthalene
Concen: 15.77 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:128 Resp: 631

Ion	Ratio	Lower	Upper
128	100		
127	58.8	0.0	42.5#

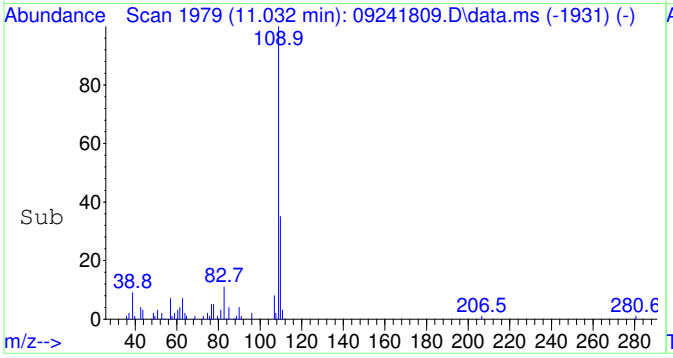


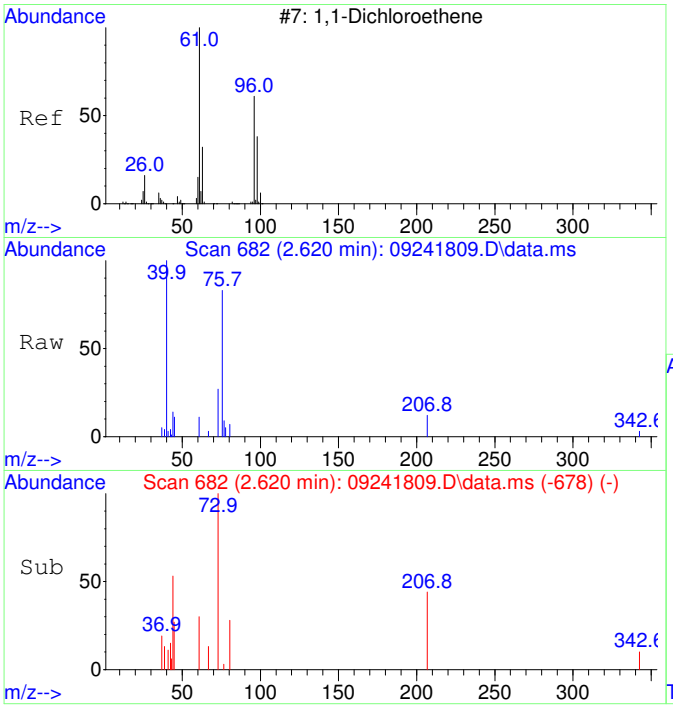


#25
2-Fluorotoluene SCAN
Concen: 5135.57 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:109 Resp: 60338

Ion	Ratio	Lower	Upper
109	100		
83	17.9	0.0	45.7

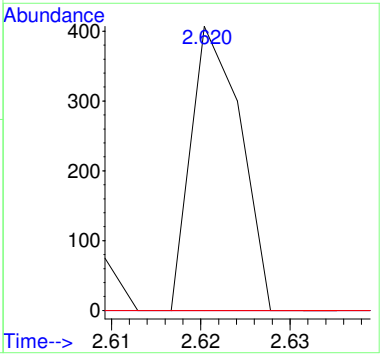


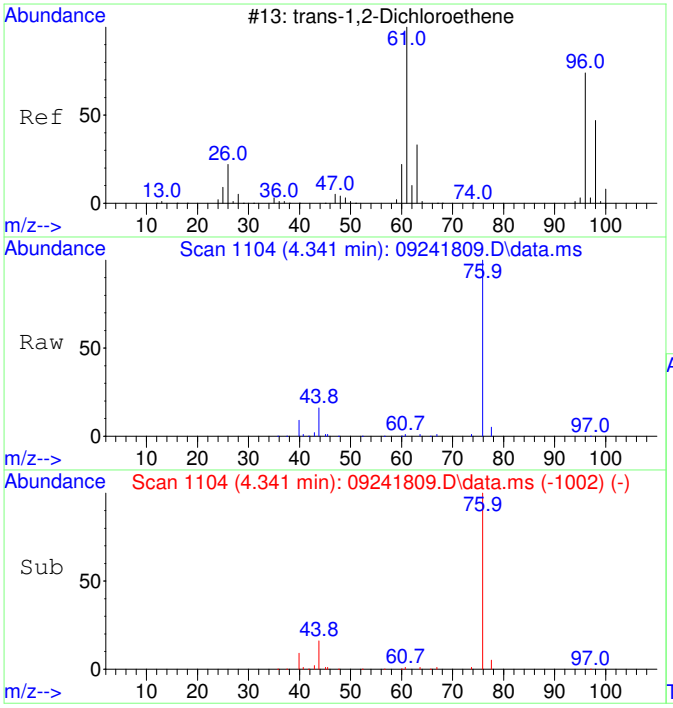


#26
1,1-Dichloroethene SCAN
Concen: 53.55 ug/L
RT: 2.620 min Scan# 682
Delta R.T. -0.486 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 157

Ion	Ratio	Lower	Upper
61	100		
96	0.0	23.8	83.8#
98	0.0	8.8	68.8#

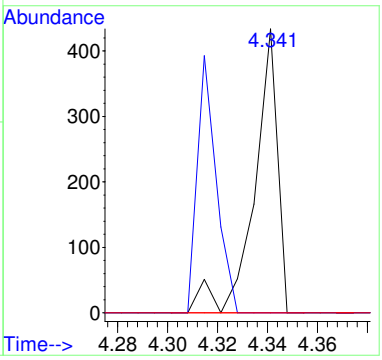


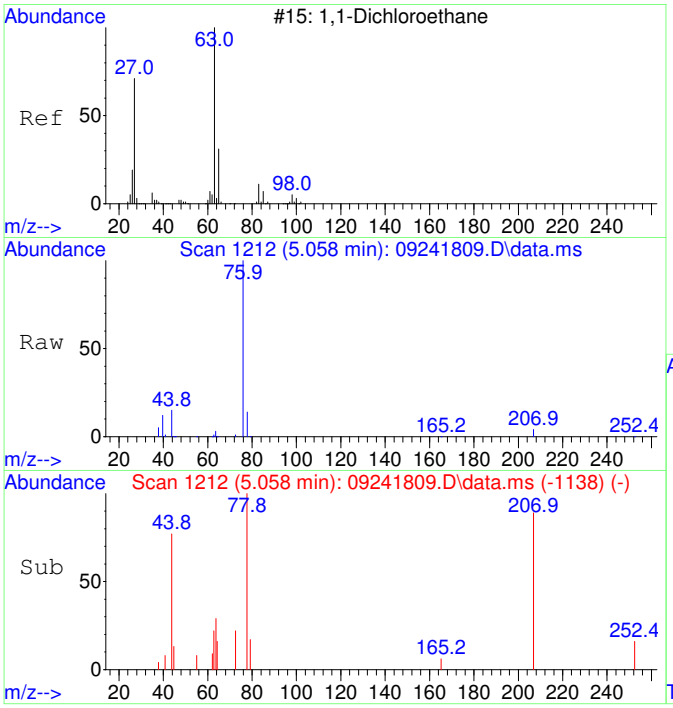


#27
trans-1,2-Dichloroethene SCAN
Concen: 82.04 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. 0.033 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 280

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	0.0	12.7	72.7#

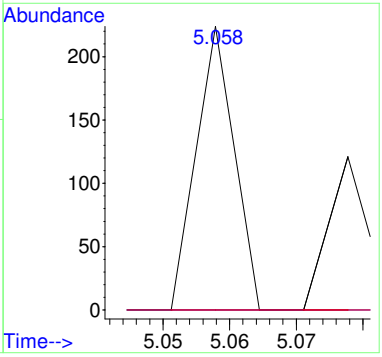


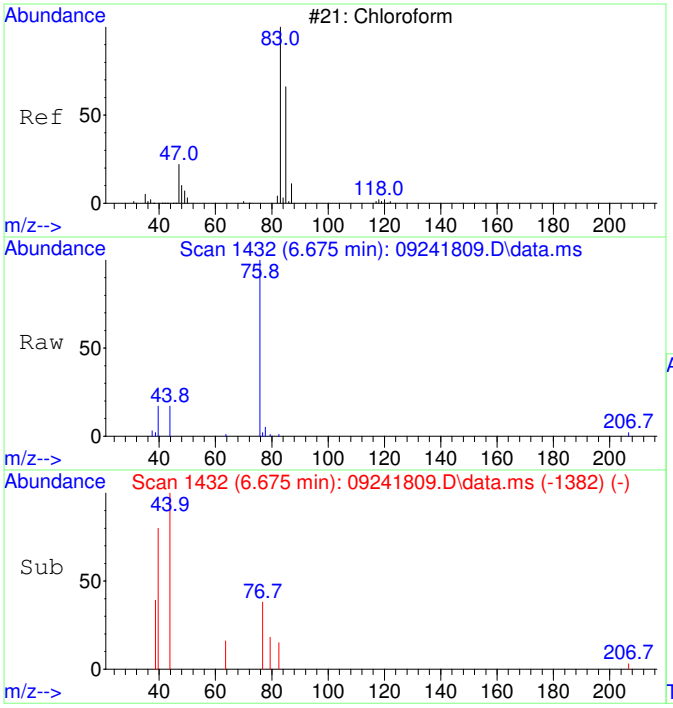


#28
1,1-Dichloroethane SCAN
Concen: 20.50 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 63 Resp: 89

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

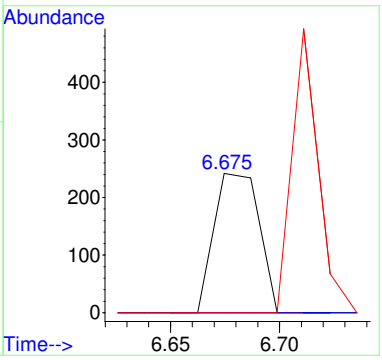


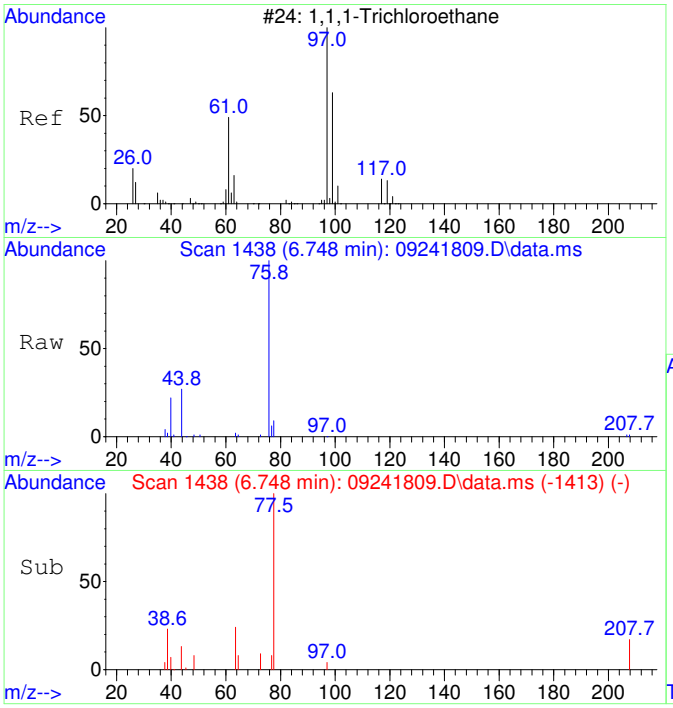


#30
Chloroform SCAN
Concen: 75.28 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 347

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

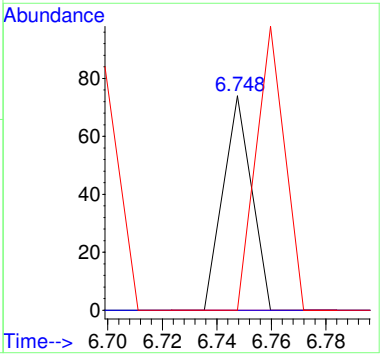


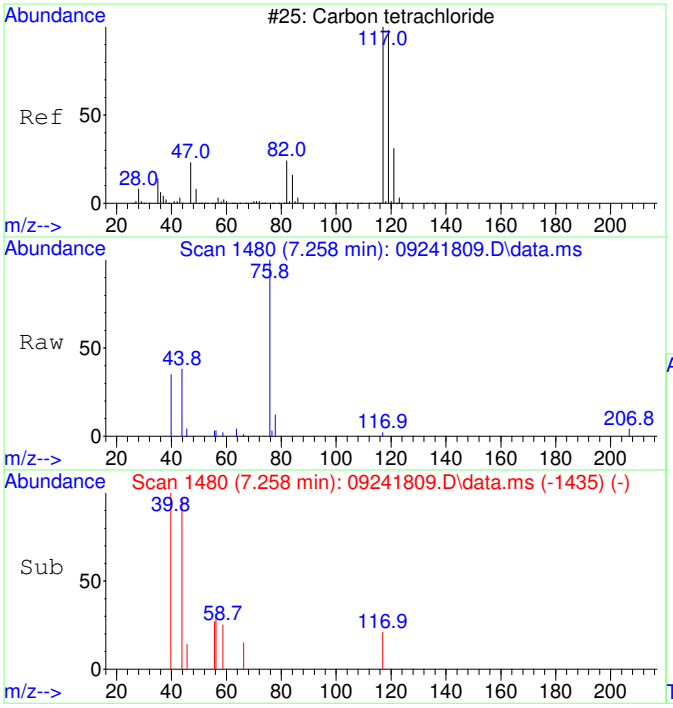


#31
1,1,1-Trichloroethane SCAN
Concen: 13.16 ug/L
RT: 6.748 min Scan# 1438
Delta R.T. -0.195 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 54

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	133.3	15.1	75.1#

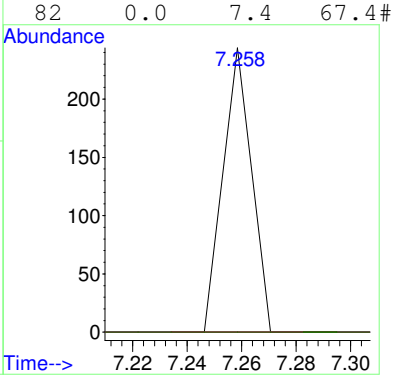


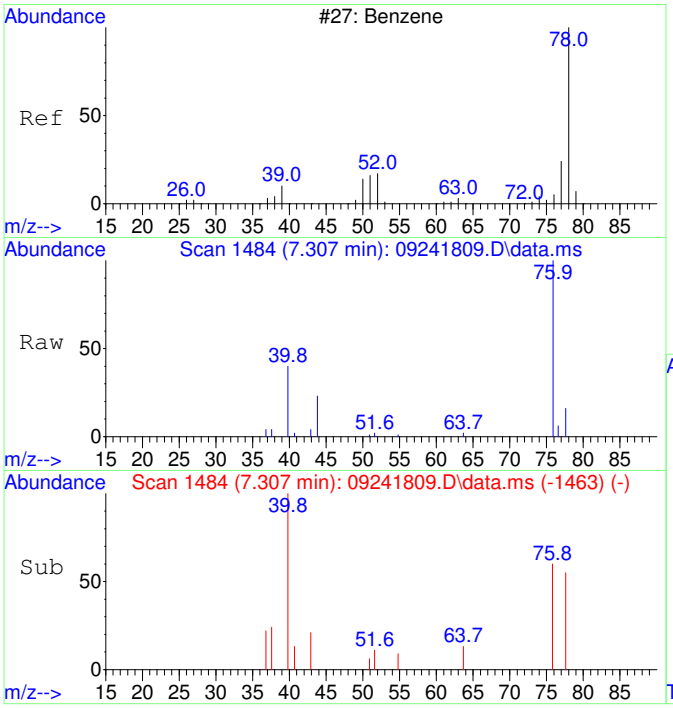


#32
Carbon tetrachloride SCAN
Concen: 44.03 ug/L
RT: 7.258 min Scan# 1480
Delta R.T. 0.049 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:117 Resp: 178

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

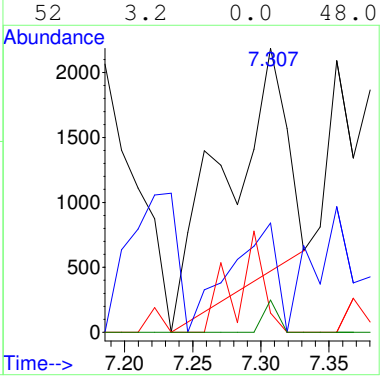


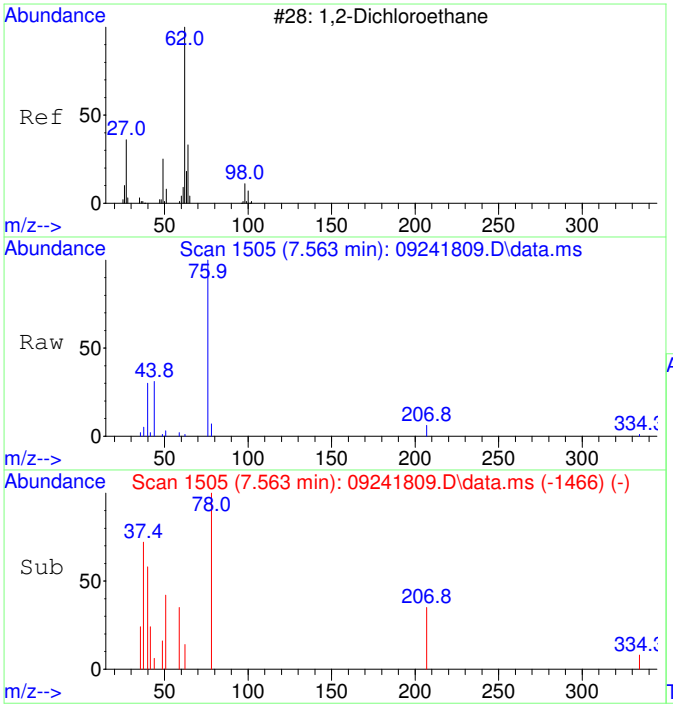


#33
Benzene SCAN
Concen: 460.12 ug/L
RT: 7.307 min Scan# 1484
Delta R.T. -0.243 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 78 Resp: 5630

Ion	Ratio	Lower	Upper
78	100		
77	21.1	3.0	63.0
51	19.9	0.0	56.4
52	3.2	0.0	48.0

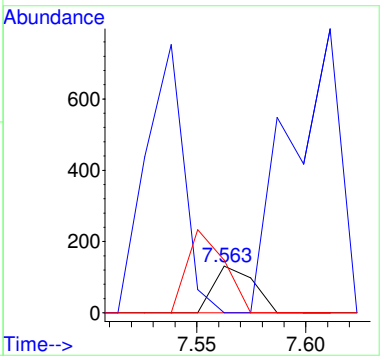


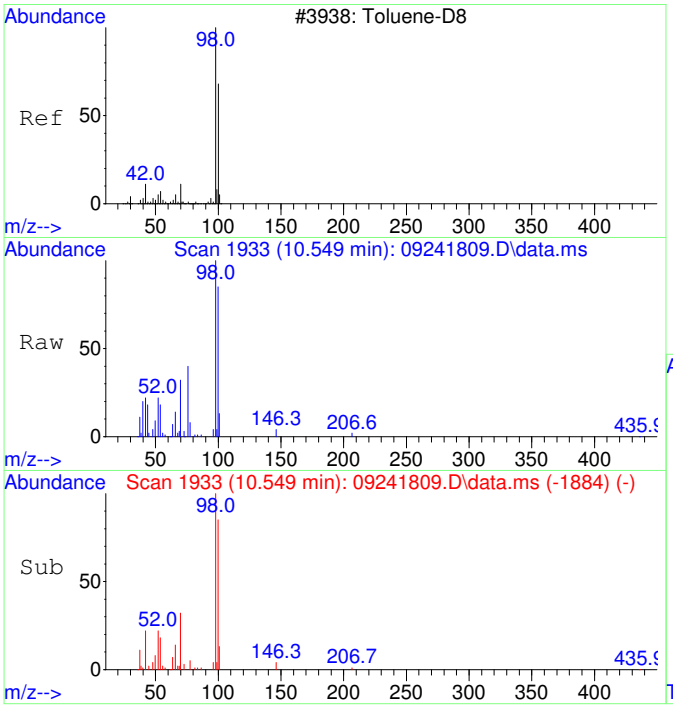


#34
1,2-Dichloroethane SCAN
Concen: 40.02 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. -0.024 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 62 Resp: 167

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	166.5	10.4	70.4#

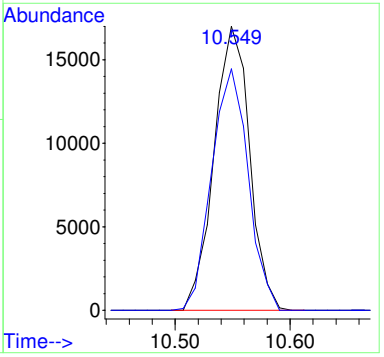


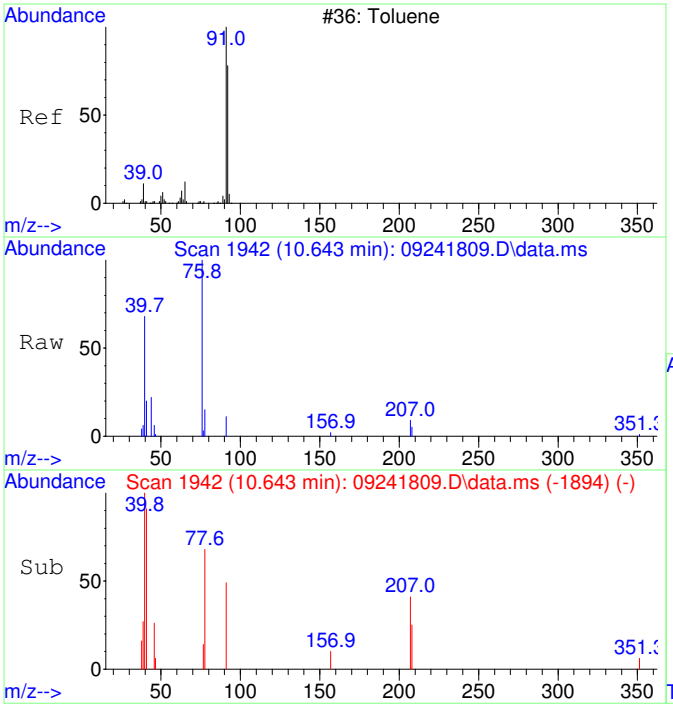


#36
Toluene-d8 SCAN
Concen: 3453.04 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 98 Resp: 36675

Ion	Ratio	Lower	Upper
98	100		
100	87.2	39.5	99.5

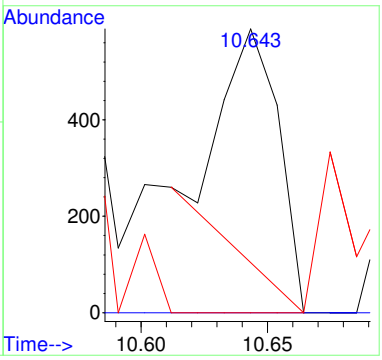


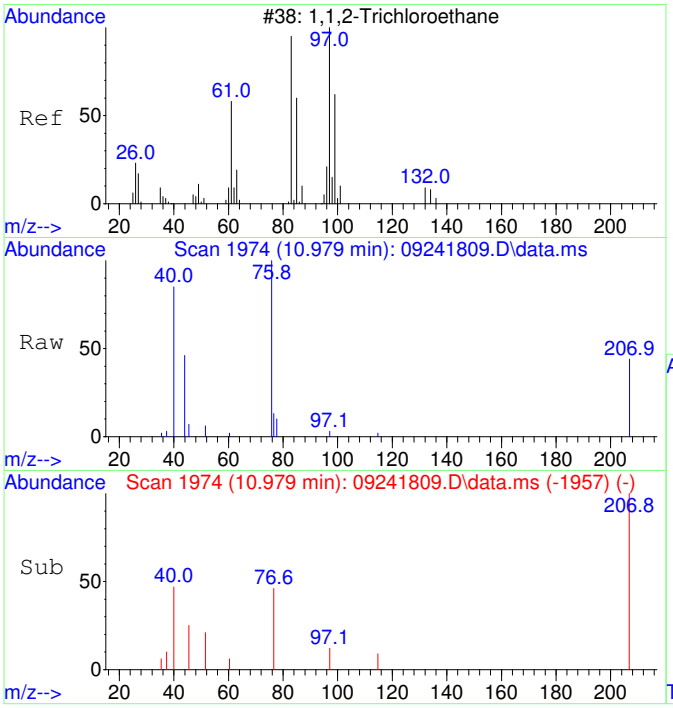


#37
Toluene SCAN
Concen: 48.28 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 655

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.6	86.6#
65	0.0	0.0	42.3

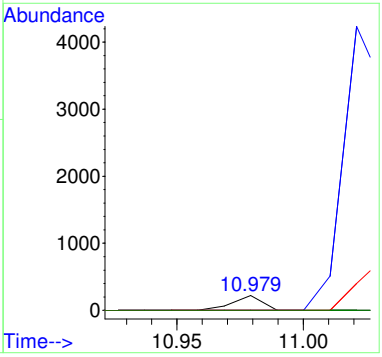


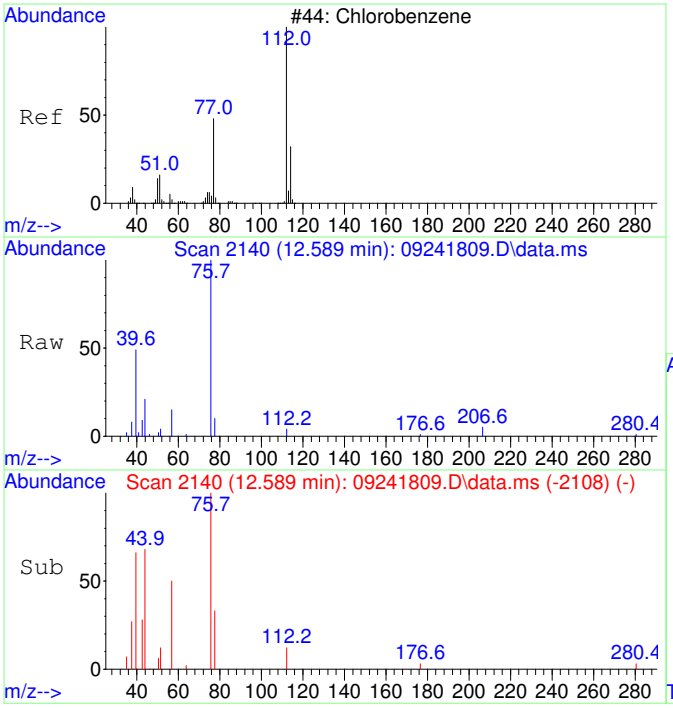


#38
1,1,2-Trichloroethane SCAN
Concen: 69.62 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. -0.325 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 181

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

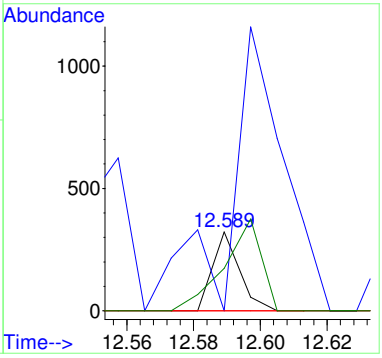


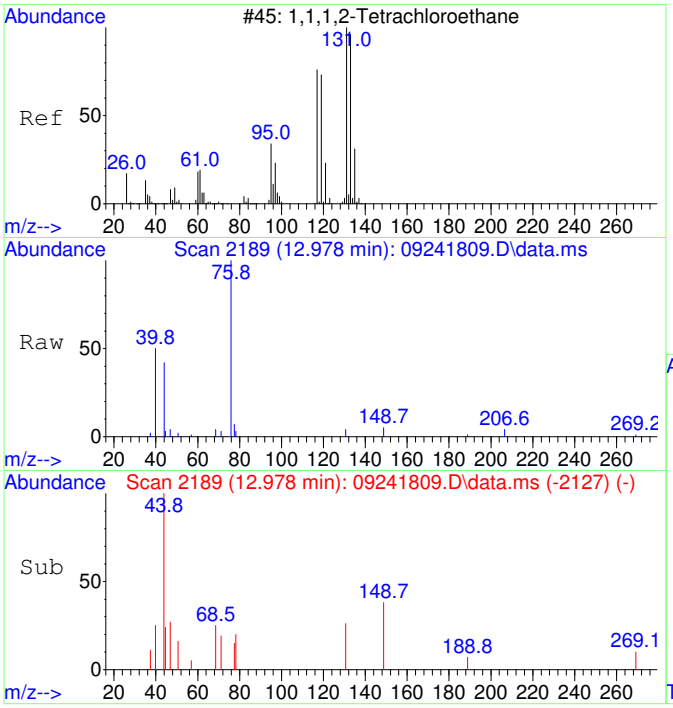


#40
Chlorobenzene SCAN
Concen: 21.99 ug/L
RT: 12.589 min Scan# 2140
Delta R.T. -0.246 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:112 Resp: 181

Ion	Ratio	Lower	Upper
112	100		
77	503.3	28.4	88.4#
114	0.0	0.0	59.5
51	162.4	0.0	53.7#

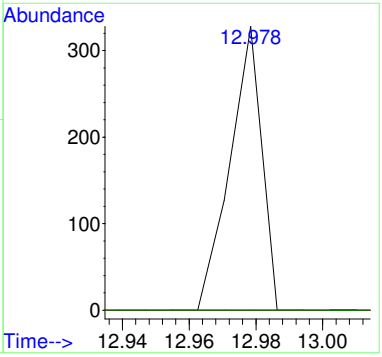


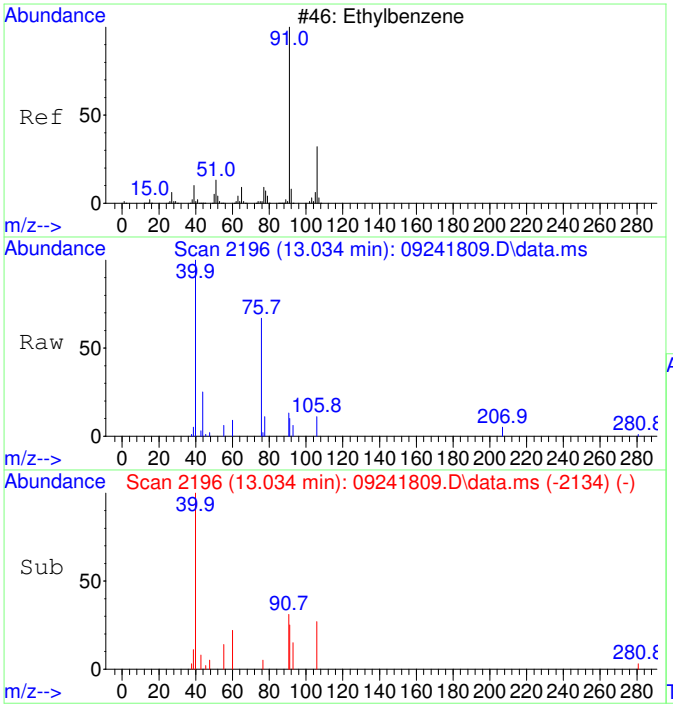


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 73.87 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:131 Resp: 217

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

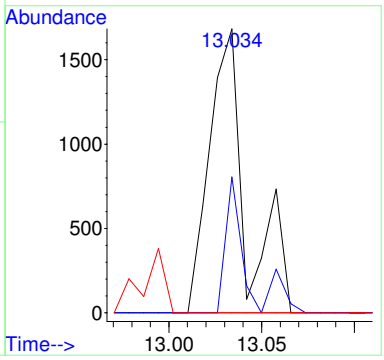


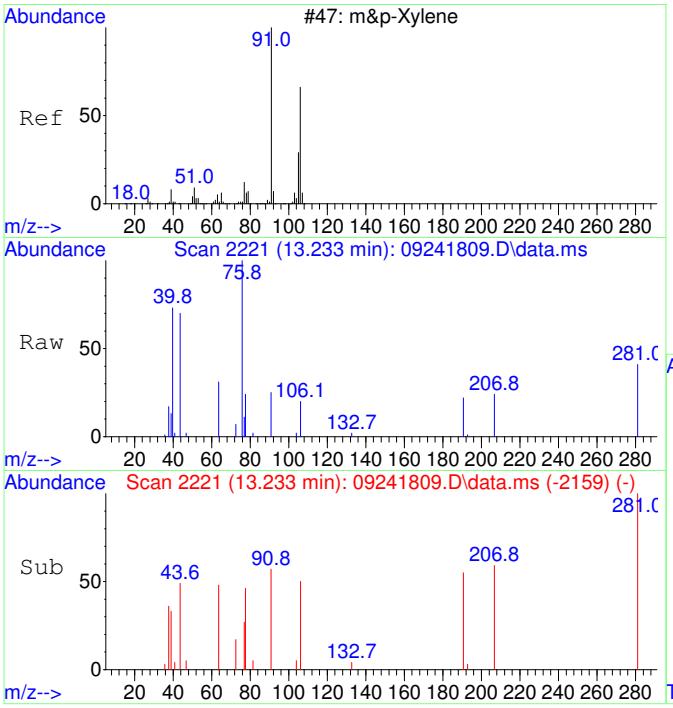


#42
Ethylbenzene SCAN
Concen: 146.35 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 2308

Ion	Ratio	Lower	Upper
91	100		
106	20.0	3.2	63.2
51	0.0	0.0	40.1

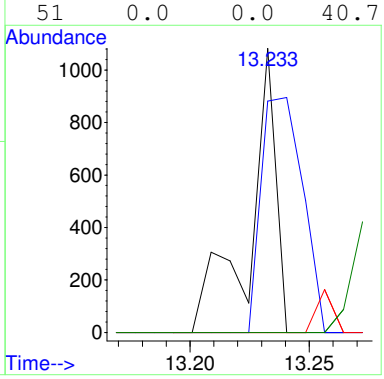


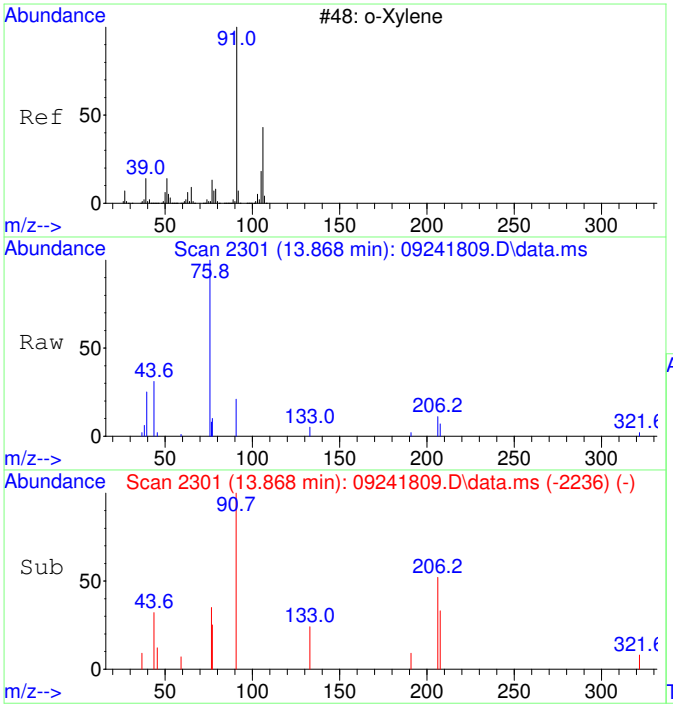


#43
m&p-Xylene SCAN
Concen: 38.60 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 845

Ion	Ratio	Lower	Upper
91	100		
106	128.5	20.1	80.1#
105	0.0	0.0	51.1
51	0.0	0.0	40.7

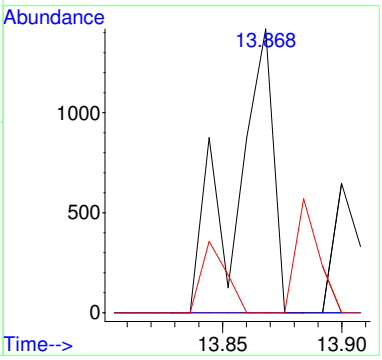


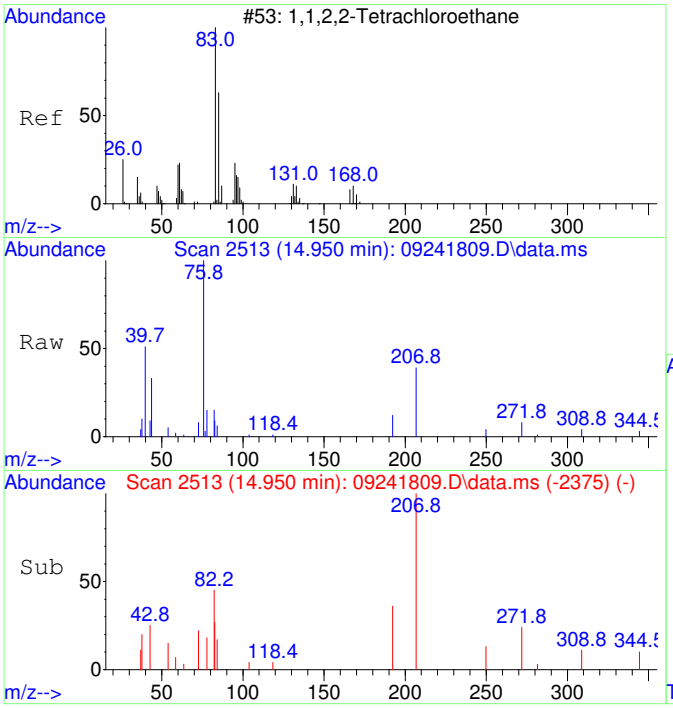


#44
o-Xylene SCAN
Concen: 126.01 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.016 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1570

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	24.3	0.0	55.2

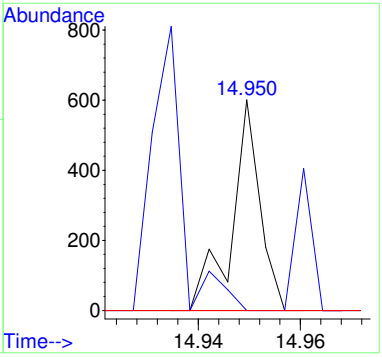


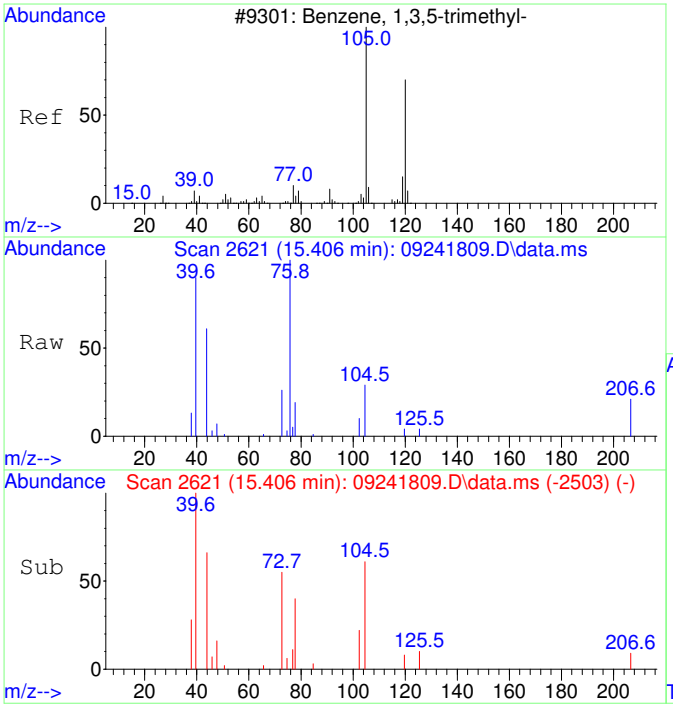


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 39.12 ug/L
RT: 14.950 min Scan# 2513
Delta R.T. 0.011 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 231

Ion	Ratio	Lower	Upper
83	100		
85	39.0	31.6	91.6
95	0.0	0.0	49.0

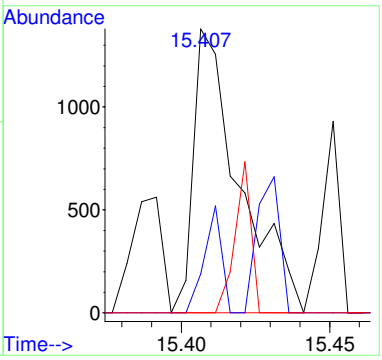


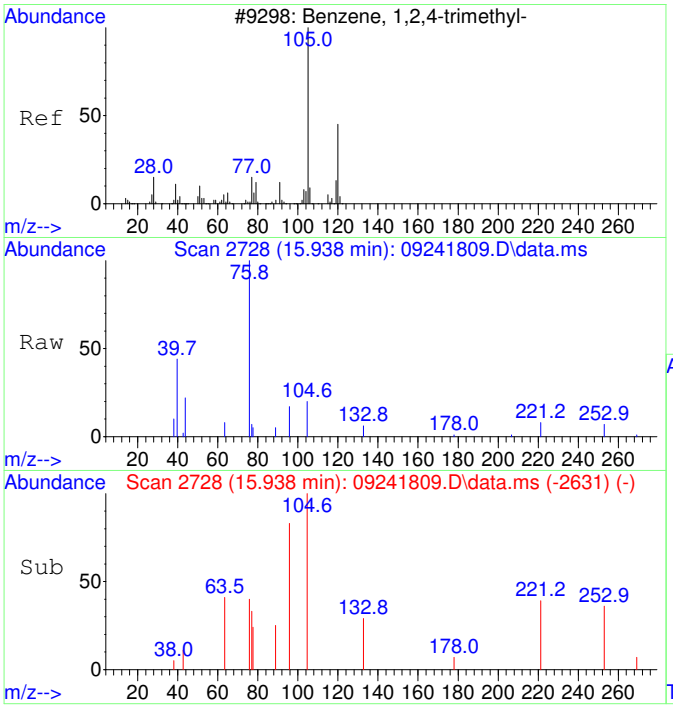


#46
1,3,5-Trimethylbenzene SCAN
Concen: 120.61 ug/L
RT: 15.406 min Scan# 2621
Delta R.T. -0.006 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1490

Ion	Ratio	Lower	Upper
105	100		
120	14.2	16.8	76.8#
119	0.0	0.0	41.5

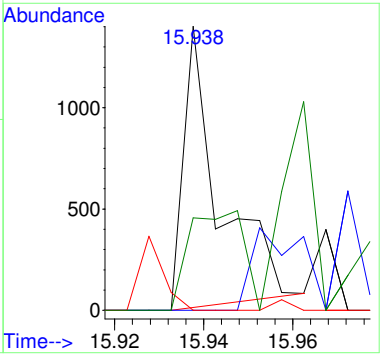


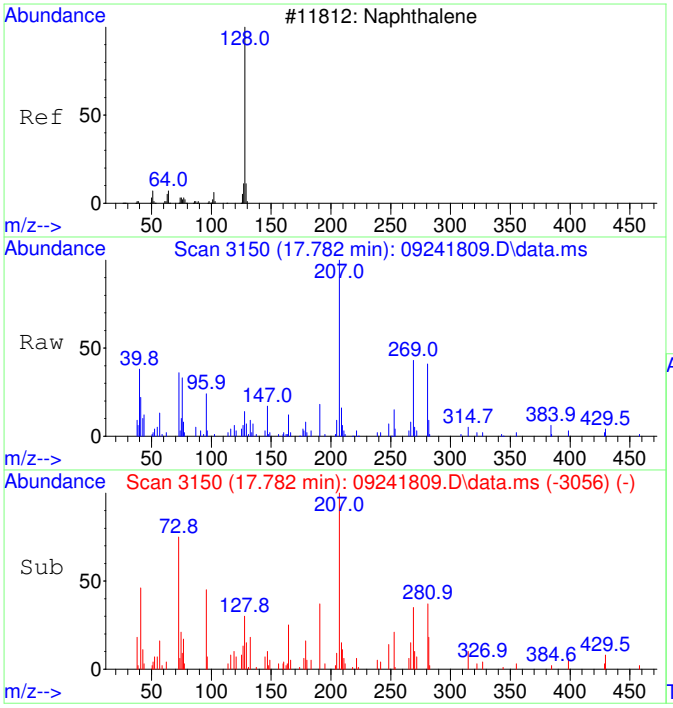


#47
1,2,4-Trimethylbenzene SCAN
Concen: 61.61 ug/L
RT: 15.938 min Scan# 2728
Delta R.T. -0.016 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 780

Ion	Ratio	Lower	Upper
105	100		
120	39.9	15.4	75.4
119	0.0	0.0	41.7
77	53.5	0.0	42.0#

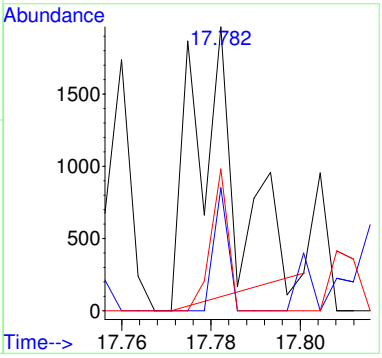




#48
Naphthalene SCAN
Concen: 70.69 ug/L
RT: 17.782 min Scan# 3150
Delta R.T. -0.152 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:128 Resp: 1277

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	43.9
129	20.8	0.0	40.5



1809026-01

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241810.D
Acq On : 24 Sep 2018 15:48
InstName : AG5975C
Operator : RH
Sample : 1809026-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 17:19:30 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

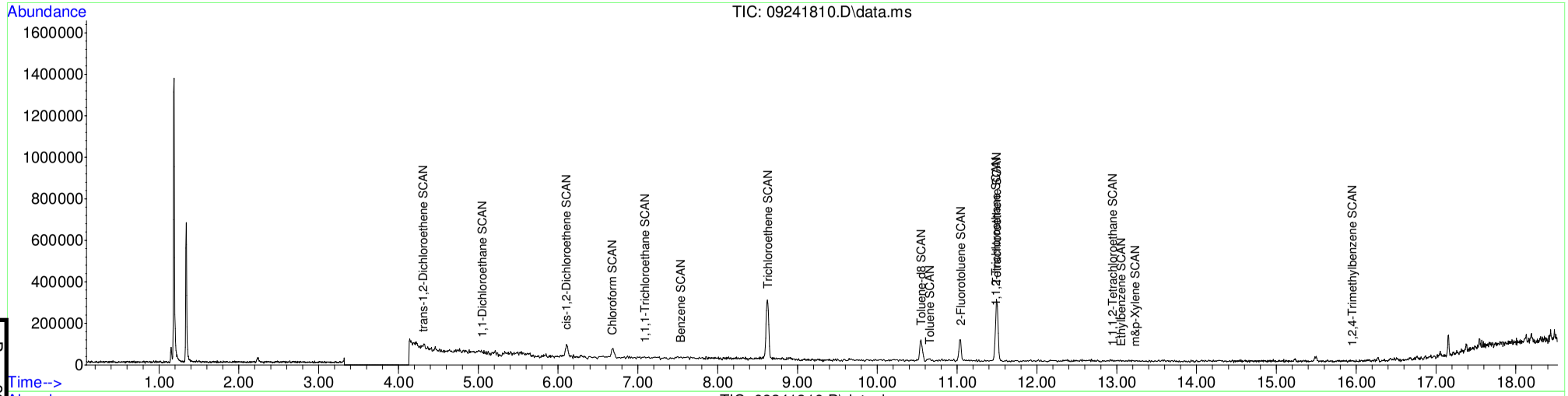
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	124110	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	104453	5181.40 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.63%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	813	156.31 ug/L #	55
3] trans-1,2-Dichloroethene	4.309	61	5076	914.65 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	75008	11007.61 ug/L	100
6] Chloroform	6.676	83	60653	8266.45 ug/L	99
8] Carbon tetrachloride	7.211	117	191	27.92 ug/L #	22
11] Trichloroethene	8.624	130	173804	31734.68 ug/L	98
13] Toluene	10.645	91	8458	312.92 ug/L	98
15] Tetrachloroethene	11.495	166	184332	24205.38 ug/L	100
18] Ethylbenzene	13.043	91	690	21.27 ug/L	91
19] m&p-Xylene	13.226	91	2059	82.25 ug/L	95
20] o-Xylene	13.846	91	770	29.04 ug/L	91
23] 1,2,4-Trimethylbenzene	15.955	105	1013	33.76 ug/L	92
25) 2-Fluorotoluene SCAN	11.042	109	84798	5863.45 ug/L	94
27) trans-1,2-Dichloroethe...	4.308	61	3302	785.94 ug/L	75
28) 1,1-Dichloroethane SCAN	5.045	63	143	26.75 ug/L #	43
29) cis-1,2-Dichloroethene...	6.106	61	43940	9505.75 ug/L	92
30) Chloroform SCAN	6.675	83	39926	7036.92 ug/L	95
31) 1,1,1-Trichloroethane ...	7.088	97	201	39.80 ug/L #	26
33) Benzene SCAN	7.538	78	1770	117.52 ug/L #	58
35) Trichloroethene SCAN	8.628	130	115408	31312.49 ug/L	97
36) Toluene-d8 SCAN	10.549	98	77941	5961.66 ug/L	96
37) Toluene SCAN	10.654	91	7885	472.15 ug/L	88
38) 1,1,2-Trichloroethane ...	11.483	97	696	217.49 ug/L #	1
39) Tetrachloroethene SCAN	11.493	166	111861	30524.09 ug/L	94
41) 1,1,1,2-Tetrachloroeth...	12.947	131	119	32.91 ug/L #	13
42) Ethylbenzene SCAN	13.050	91	484	24.93 ug/L #	49
43) m&p-Xylene SCAN	13.233	91	2232	82.83 ug/L #	76
47) 1,2,4-Trimethylbenzene...	15.949	105	704	45.18 ug/L #	22

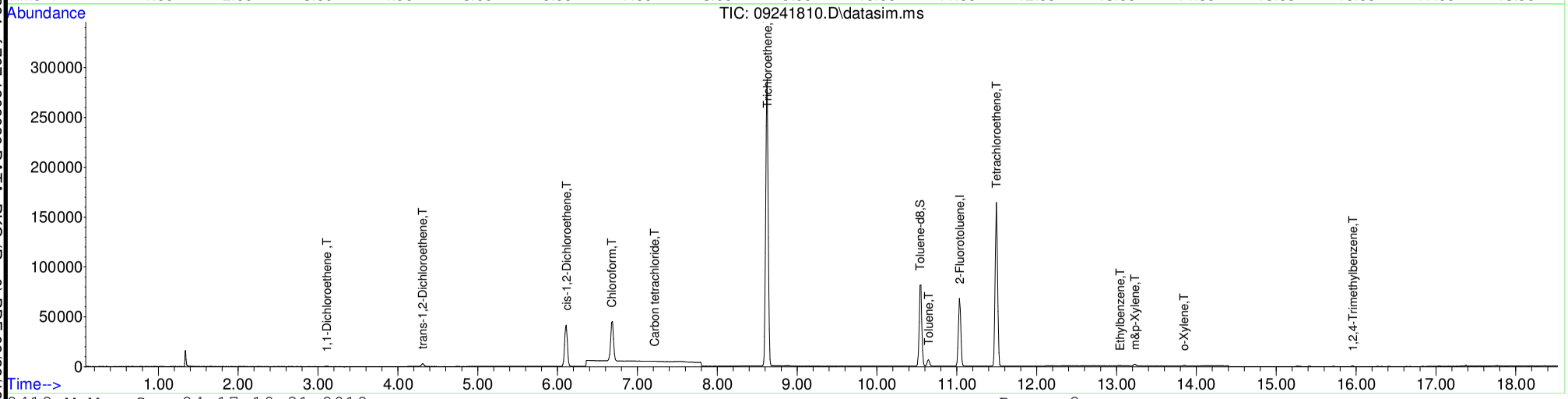
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241810.D
Acq On : 24 Sep 2018 15:48
InstName : AG5975C
Operator : RH
Sample : 1809026-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 17:19:30 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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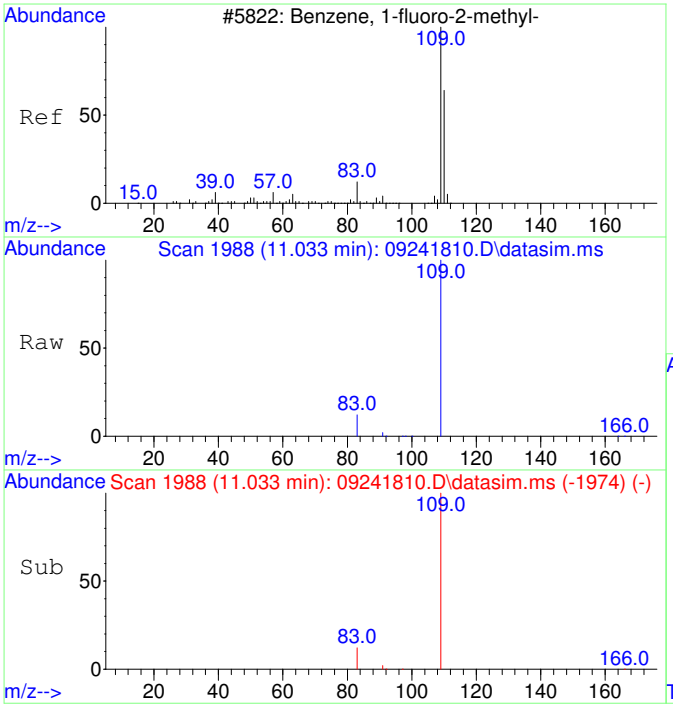
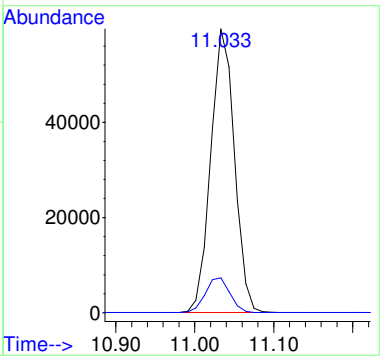
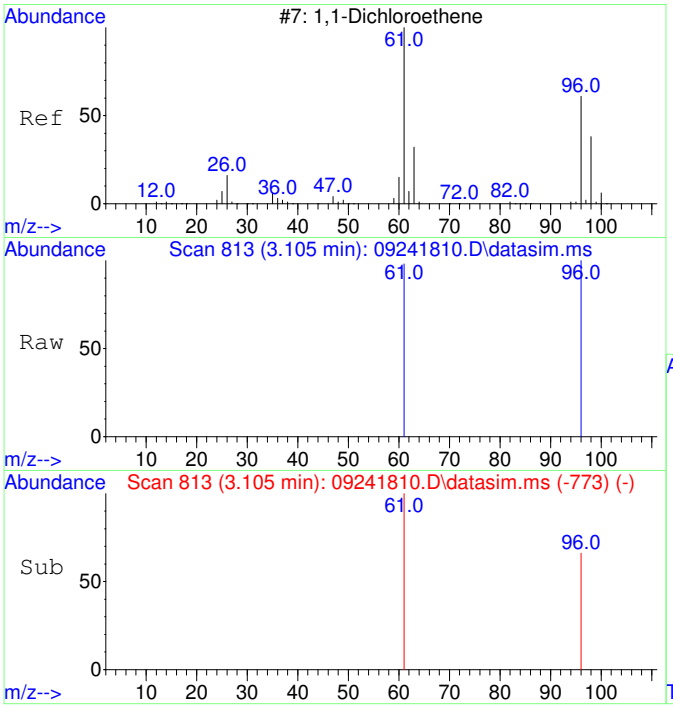


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:109 Resp: 124110

Ion	Ratio	Lower	Upper
109	100		
83	12.6	0.0	44.7

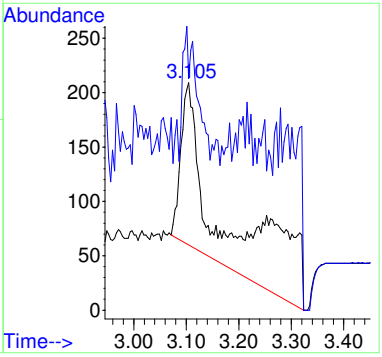




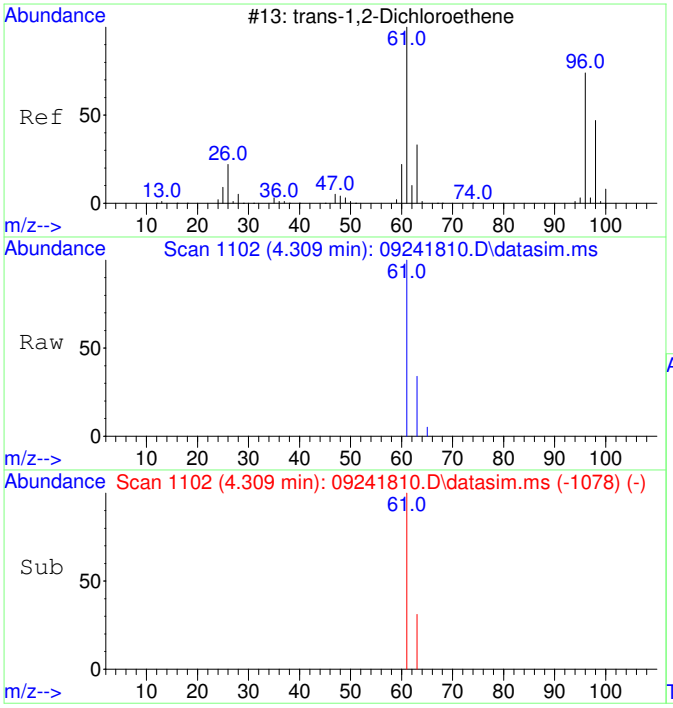
#2
1,1-Dichloroethene
Concen: 156.31 ug/L
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 61 Resp: 813

Ion	Ratio	Lower	Upper
61	100		
96	25.3	28.7	88.7#



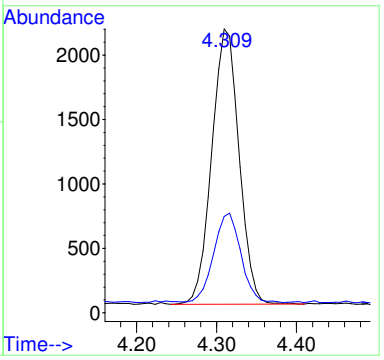
Before MI:
IMPROPER
BASELINE

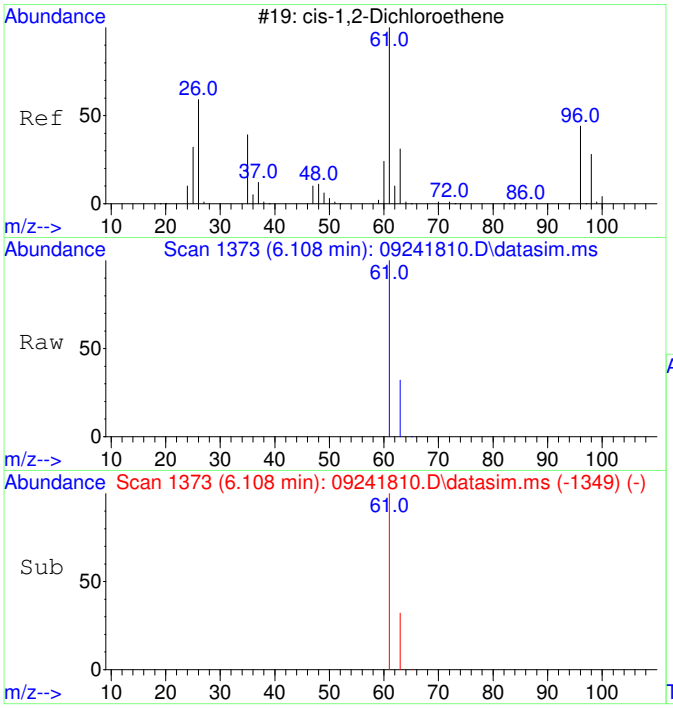


#3
trans-1,2-Dichloroethene
Concen: 914.65 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 61 Resp: 5076

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.0	62.0

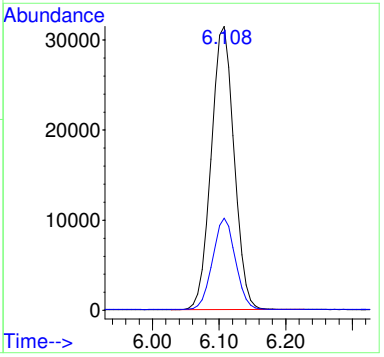


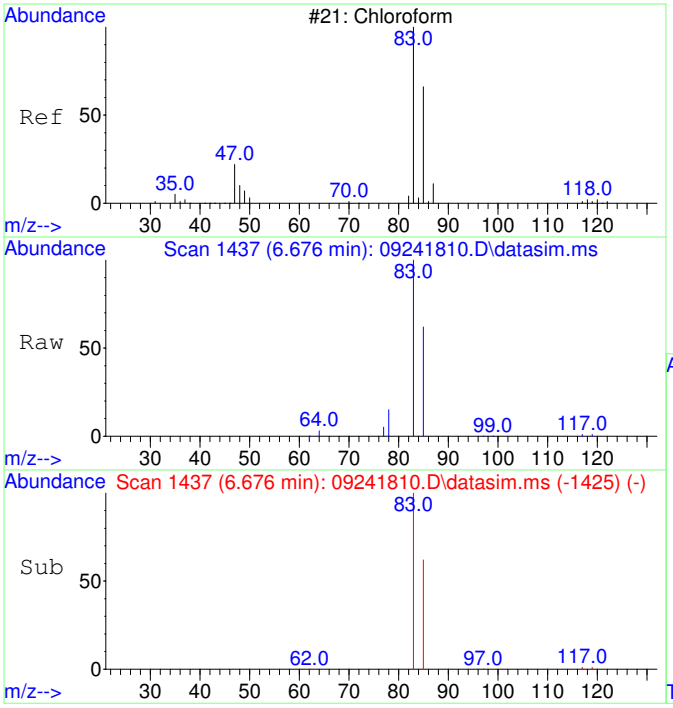


#5
cis-1,2-Dichloroethene
Concen: 11007.61 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.007 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 61 Resp: 75008

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.2	62.2

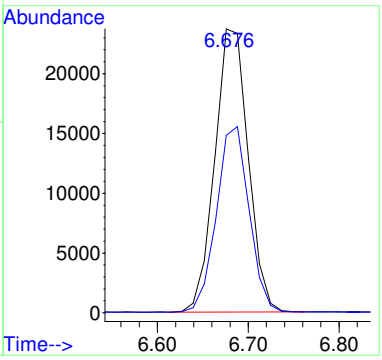


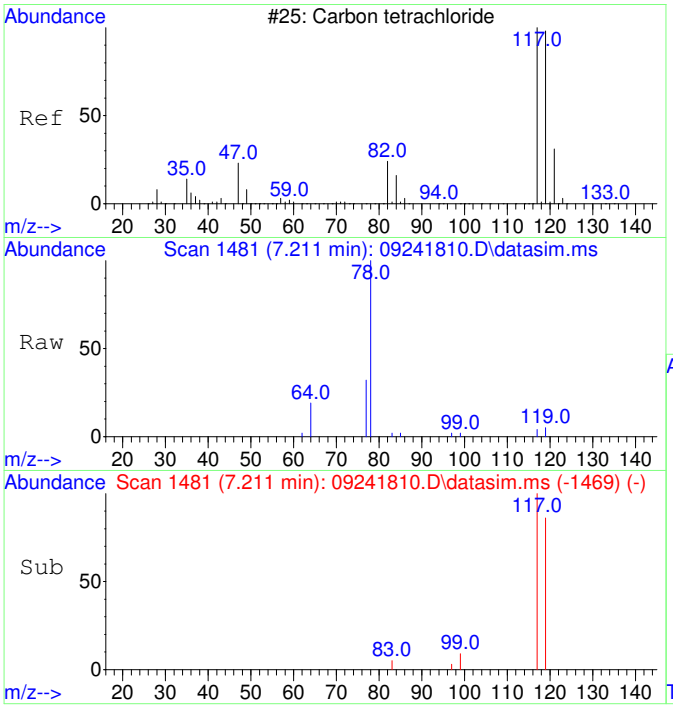


#6
Chloroform
Concen: 8266.45 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 83 Resp: 60653

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.8	94.8

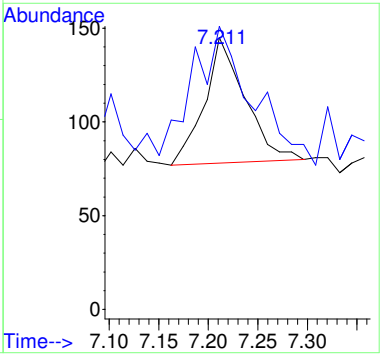


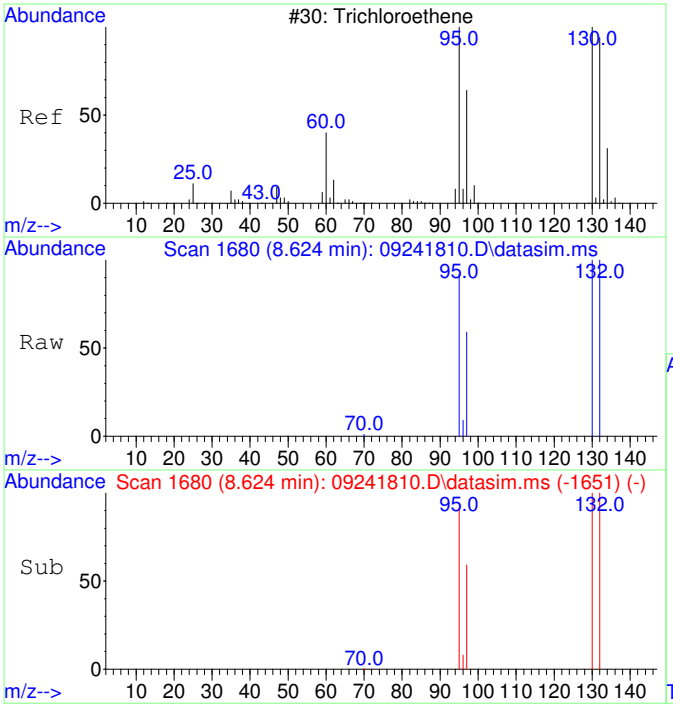


#8
Carbon tetrachloride
Concen: 27.92 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:117 Resp: 191

Ion	Ratio	Lower	Upper
117	100		
119	171.7	65.9	125.9#

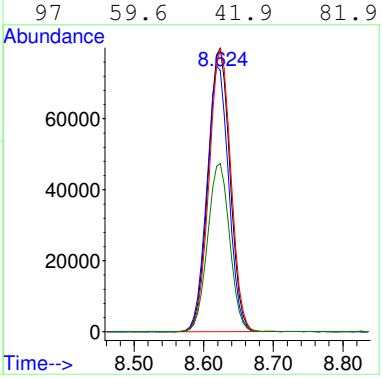


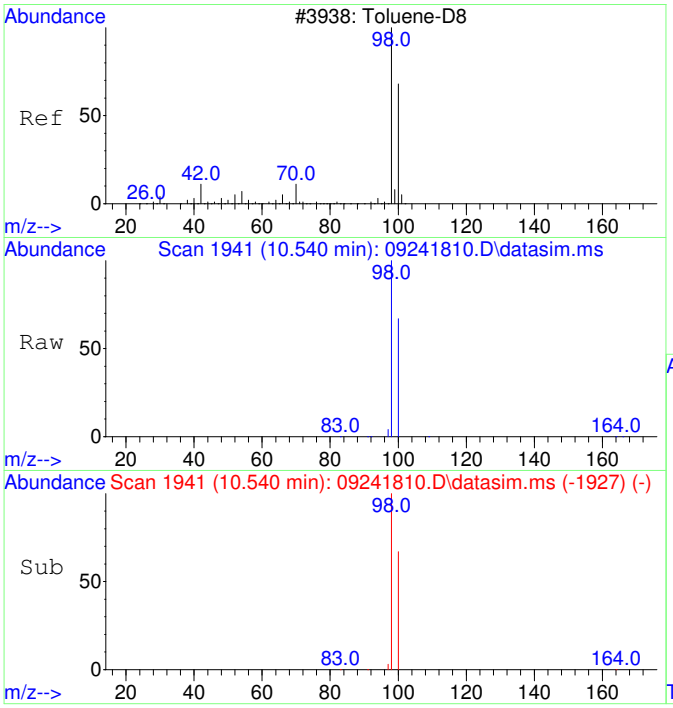


#11
Trichloroethene
Concen: 31734.68 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:130 Resp: 173804

Ion	Ratio	Lower	Upper
130	100		
95	93.3	66.0	126.0
132	99.4	78.8	118.8
97	59.6	41.9	81.9

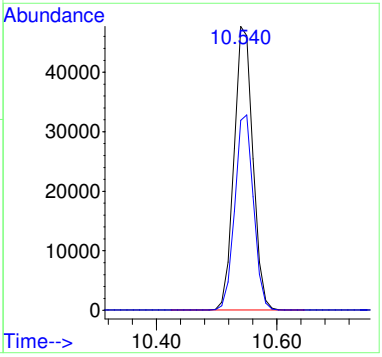


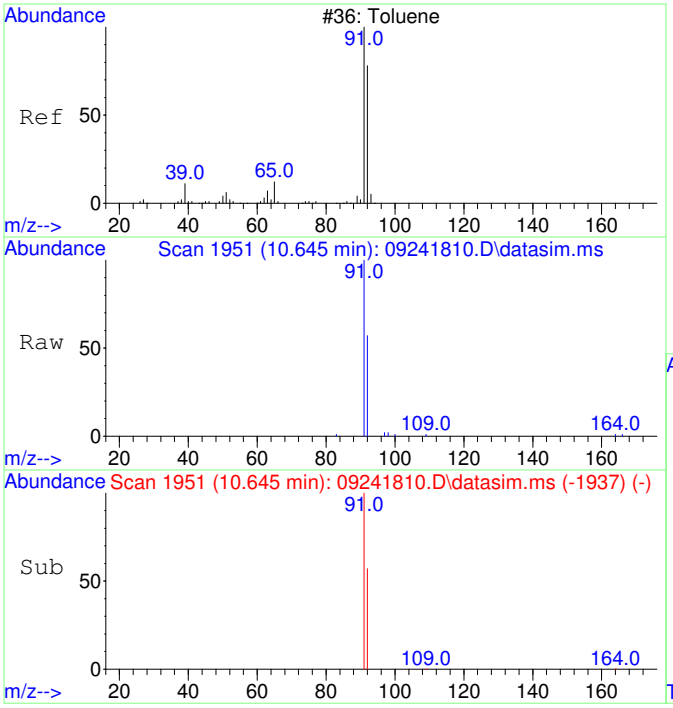


#12
Toluene-d8
Concen: 5181.40 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 98 Resp: 104453

Ion	Ratio	Lower	Upper
98	100		
100	68.2	38.7	98.7

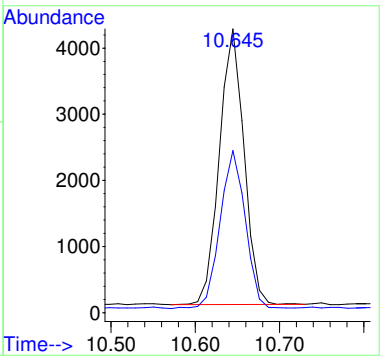


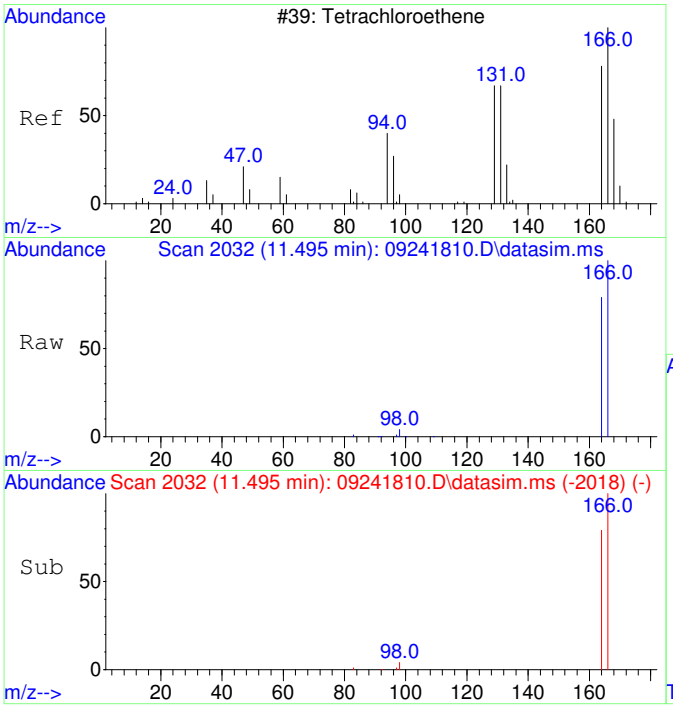


#13
Toluene
Concen: 312.92 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 8458

Ion	Ratio	Lower	Upper
91	100		
92	58.4	30.0	90.0

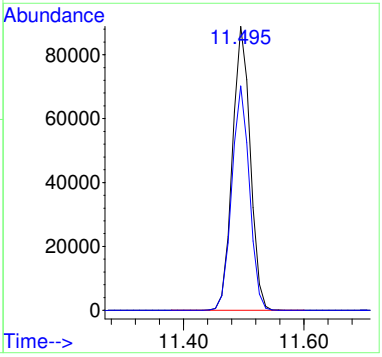


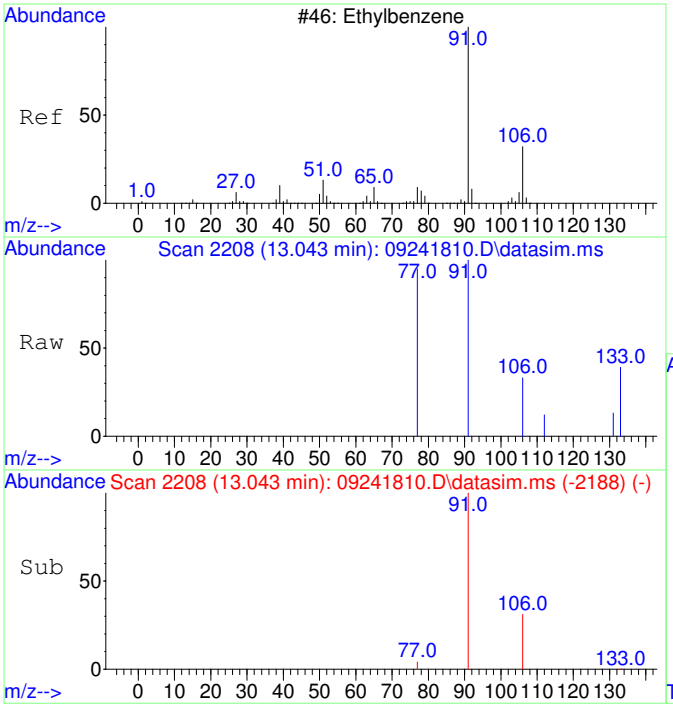


#15
Tetrachloroethene
Concen: 24205.38 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:166 Resp: 184332

Ion	Ratio	Lower	Upper
166	100		
164	78.0	47.8	107.8

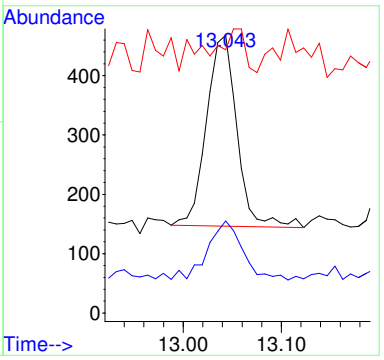


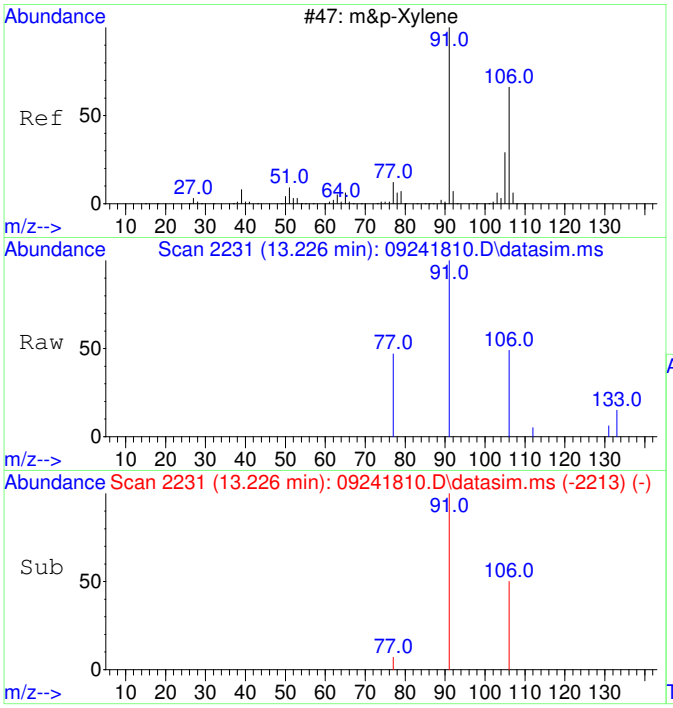


#18
Ethylbenzene
Concen: 21.27 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.008 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 690

Ion	Ratio	Lower	Upper
91	100		
106	35.9	2.8	62.8
77	17.1	0.0	38.6

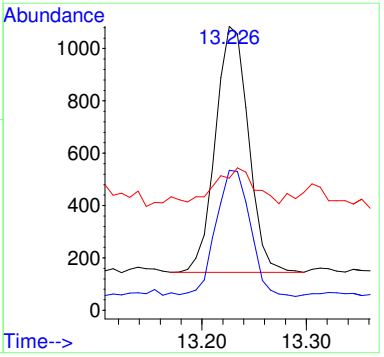


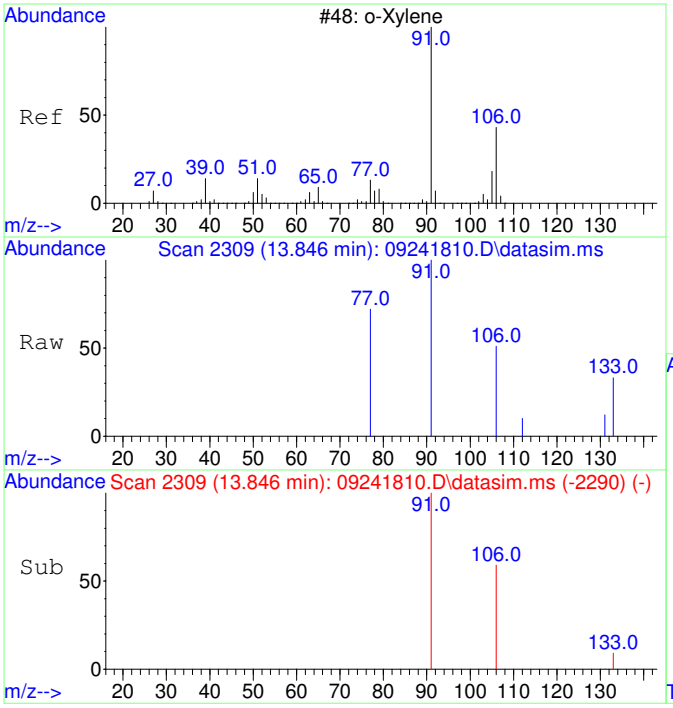


#19
m&p-Xylene
Concen: 82.25 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 2059

Ion	Ratio	Lower	Upper
91	100		
106	53.6	21.2	81.2
77	16.6	0.0	42.9

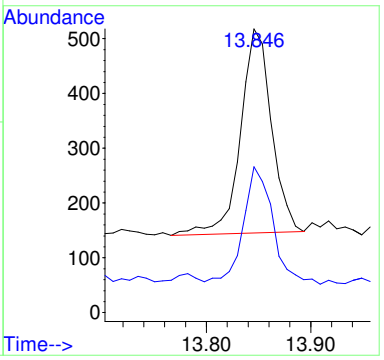


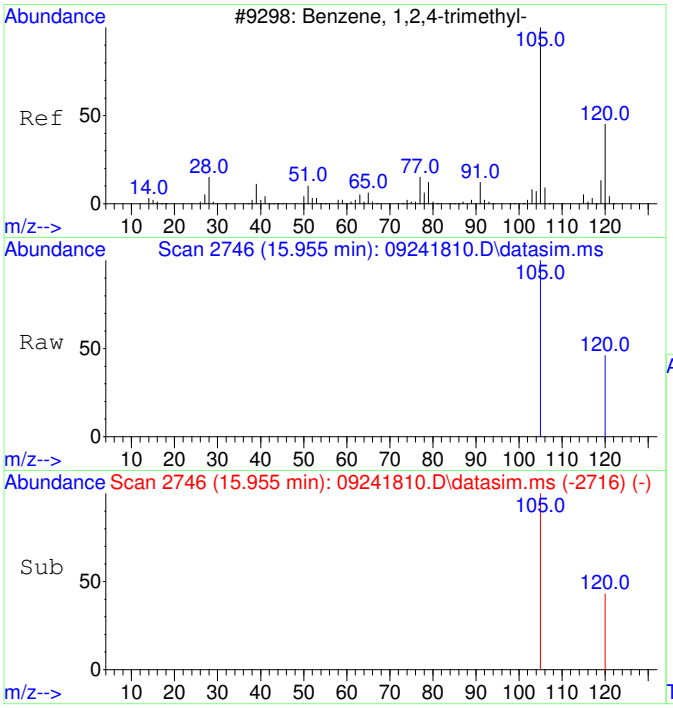


#20
o-Xylene
Concen: 29.04 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 770

Ion	Ratio	Lower	Upper
91	100		
106	54.7	18.3	78.3

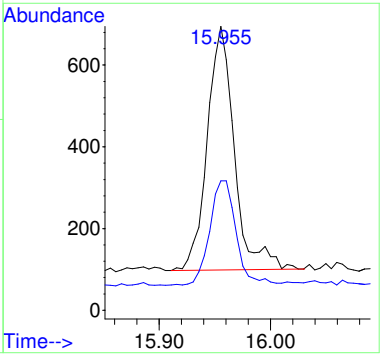


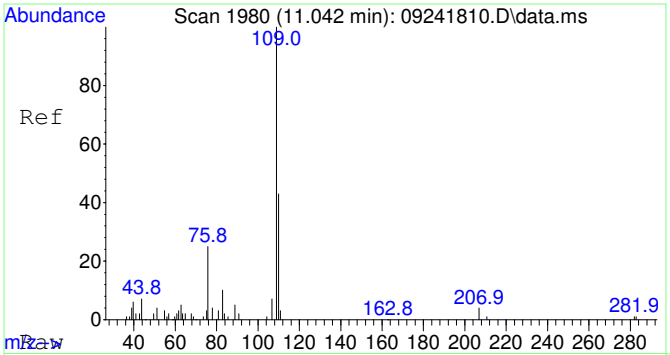


#23
1,2,4-Trimethylbenzene
Concen: 33.76 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:105 Resp: 1013

Ion	Ratio	Lower	Upper
105	100		
120	40.3	15.5	75.5

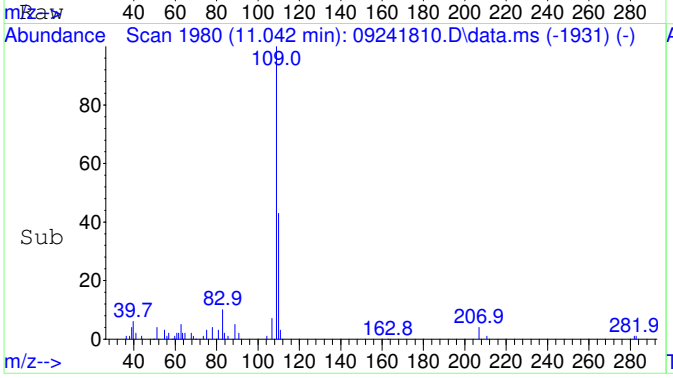


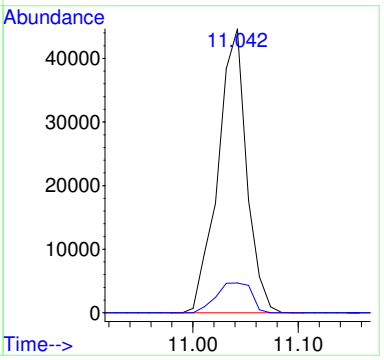


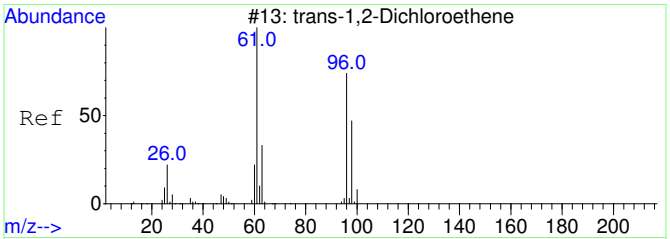
#25
2-Fluorotoluene SCAN
Concen: 5863.45 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.011 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:109 Resp: 84798

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	45.7



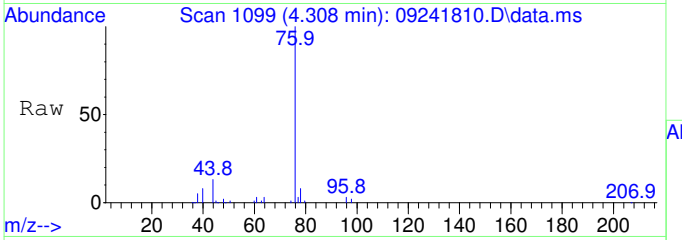


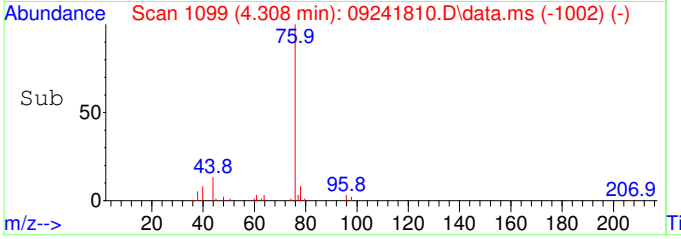


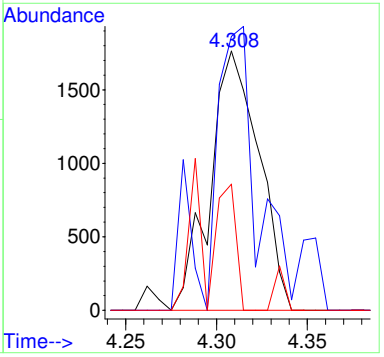
#27
trans-1,2-Dichloroethene SCAN
Concen: 785.94 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

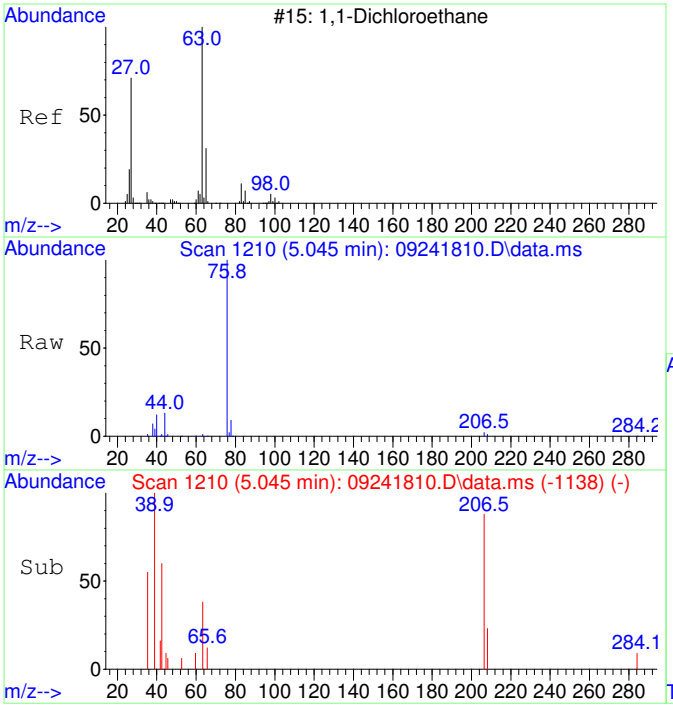
Tgt Ion: 61 Resp: 3302

Ion	Ratio	Lower	Upper
61	100		
96	82.5	37.9	97.9
98	19.6	12.7	72.7





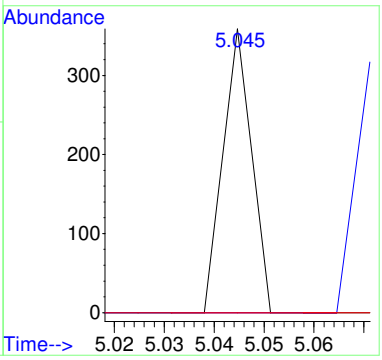


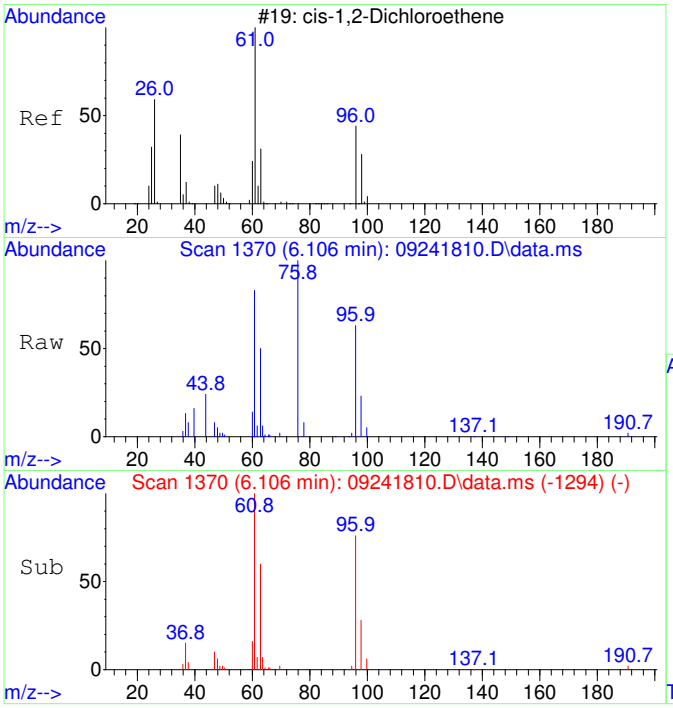


#28
1,1-Dichloroethane SCAN
Concen: 26.75 ug/L
RT: 5.045 min Scan# 1210
Delta R.T. -0.020 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 63 Resp: 143

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

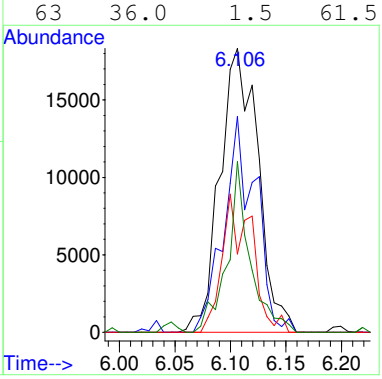


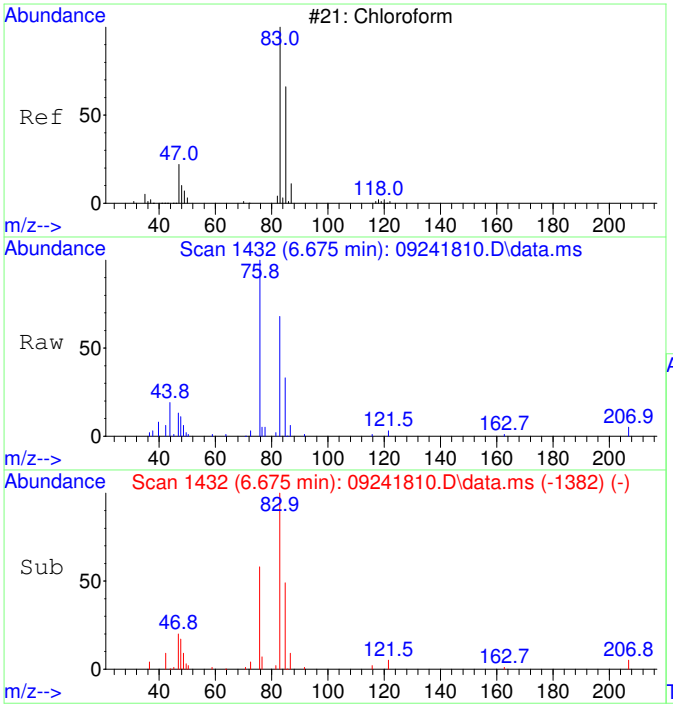


#29
cis-1,2-Dichloroethene SCAN
Concen: 9505.75 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. 0.007 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 61 Resp: 43940

Ion	Ratio	Lower	Upper
61	100		
96	63.4	28.2	88.2
98	37.7	14.1	74.1
63	36.0	1.5	61.5

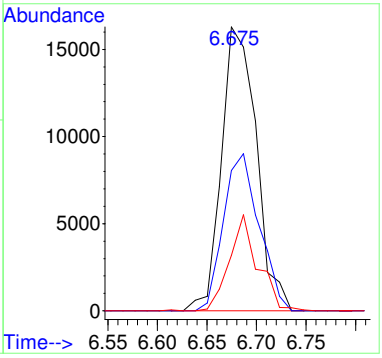


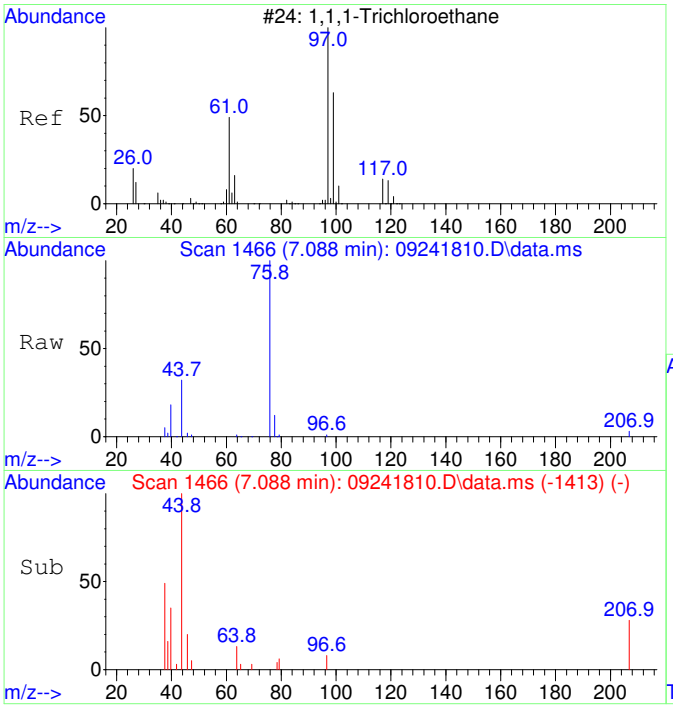


#30
Chloroform SCAN
Concen: 7036.92 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.012 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 83 Resp: 39926

Ion	Ratio	Lower	Upper
83	100		
85	56.8	32.6	92.6
47	27.7	0.0	57.9

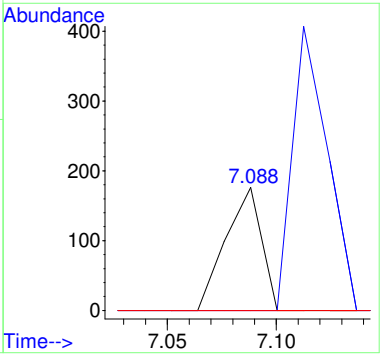


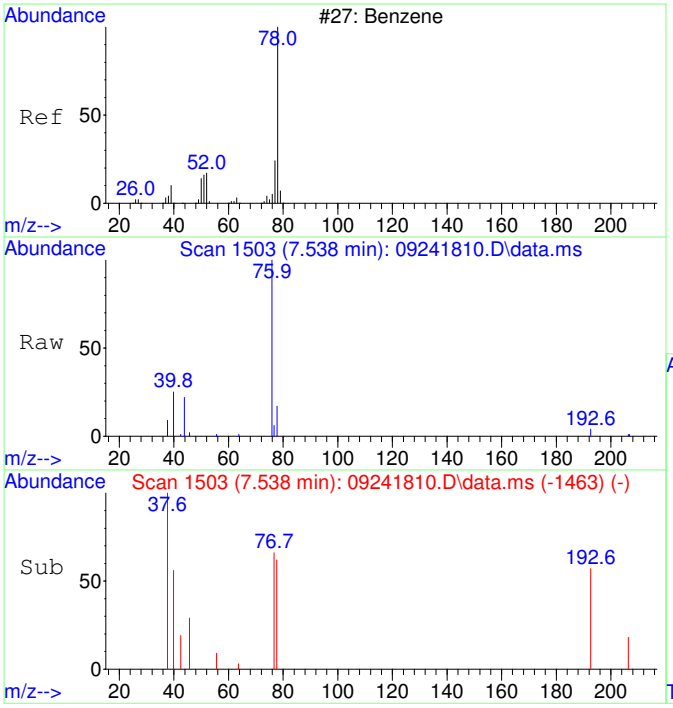


#31
1,1,1-Trichloroethane SCAN
Concen: 39.80 ug/L
RT: 7.088 min Scan# 1466
Delta R.T. 0.146 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 97 Resp: 201

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

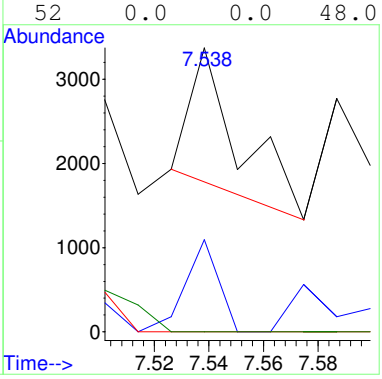


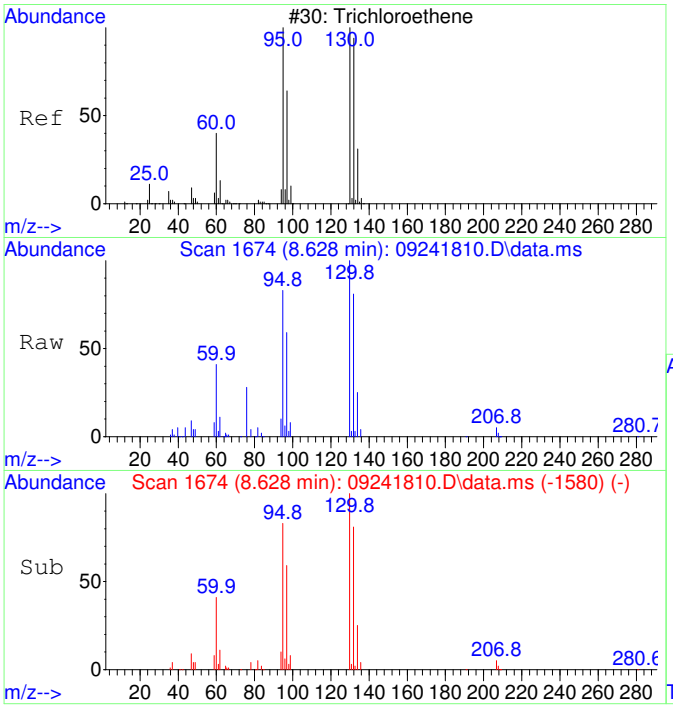


#33
Benzene SCAN
Concen: 117.52 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 78 Resp: 1770

Ion	Ratio	Lower	Upper
78	100		
77	52.7	3.0	63.0
51	0.0	0.0	56.4
52	0.0	0.0	48.0

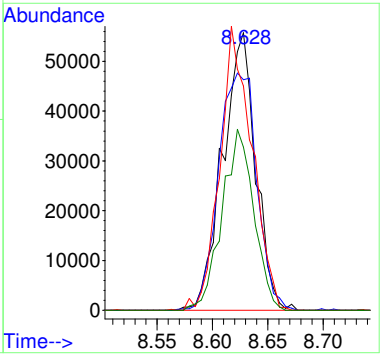


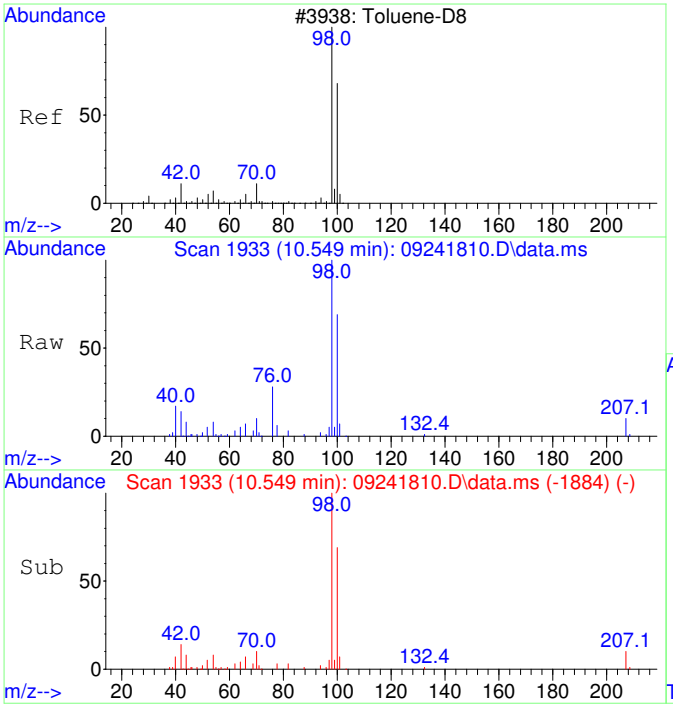


#35
Trichloroethene SCAN
Concen: 31312.49 ug/L
RT: 8.628 min Scan# 1674
Delta R.T. 0.011 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:130 Resp: 115408

Ion	Ratio	Lower	Upper
130	100		
95	99.5	70.5	130.5
132	99.6	63.8	123.8
97	62.8	34.8	94.8

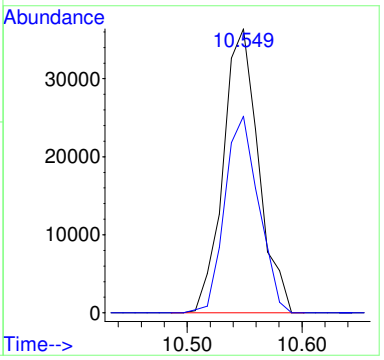


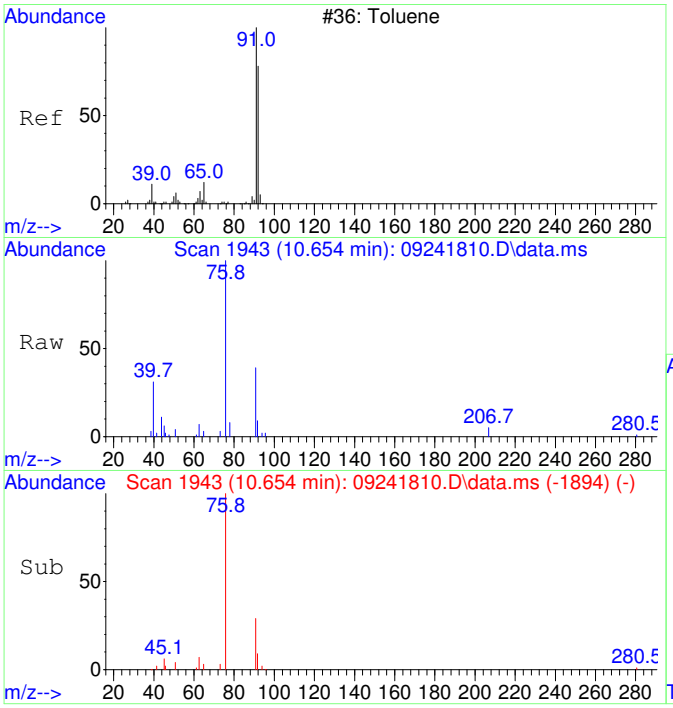


#36
Toluene-d8 SCAN
Concen: 5961.66 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 98 Resp: 77941

Ion	Ratio	Lower	Upper
98	100		
100	66.5	39.5	99.5

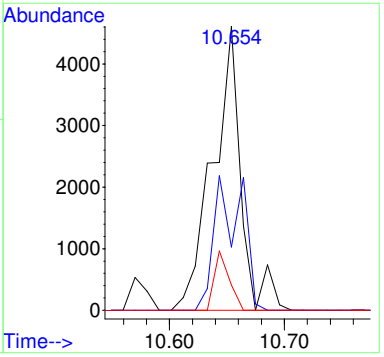


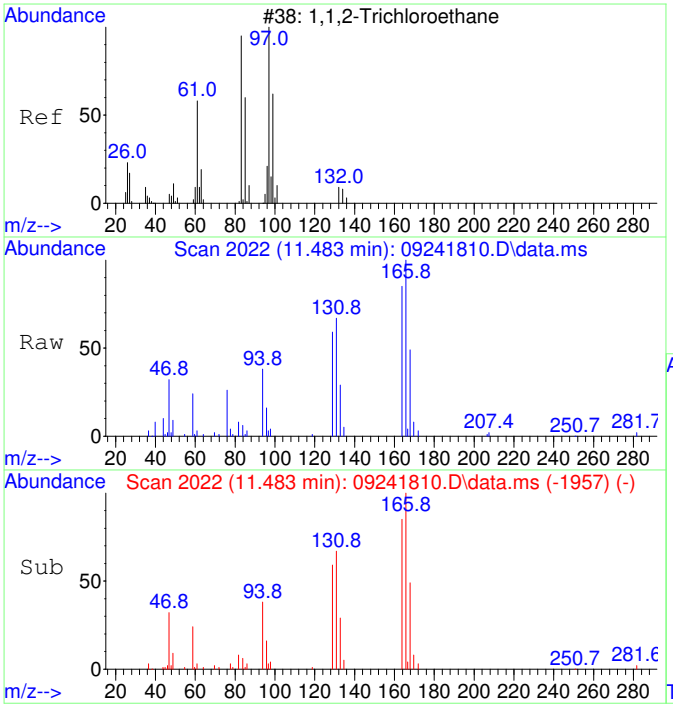


#37
Toluene SCAN
Concen: 472.15 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.011 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 7885

Ion	Ratio	Lower	Upper
91	100		
92	46.5	26.6	86.6
65	11.0	0.0	42.3

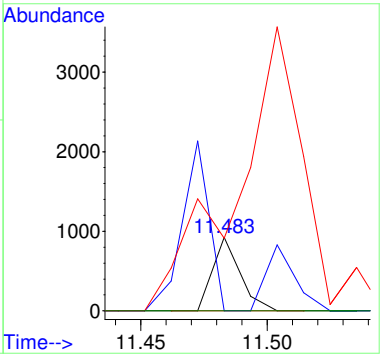


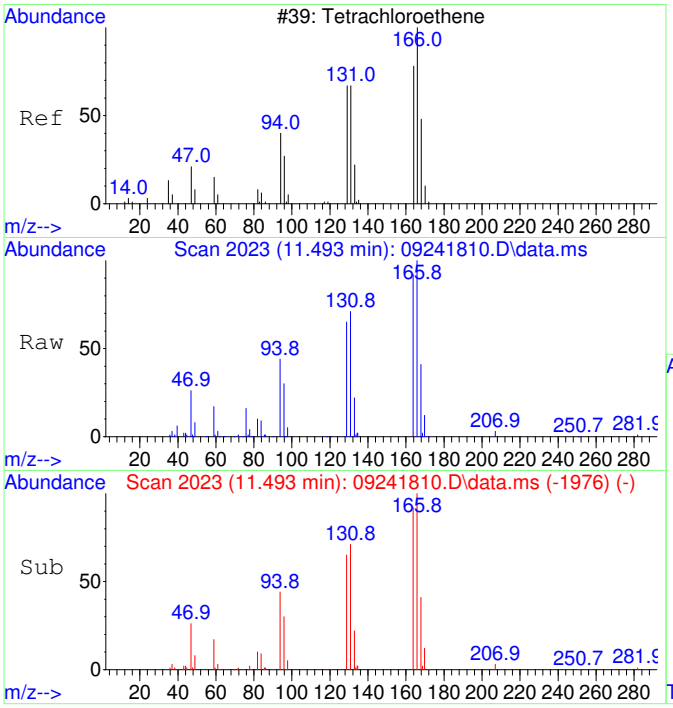


#38
1,1,2-Trichloroethane SCAN
Concen: 217.49 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. 0.178 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 97 Resp: 696

Ion	Ratio	Lower	Upper
97	100		
83	227.3	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

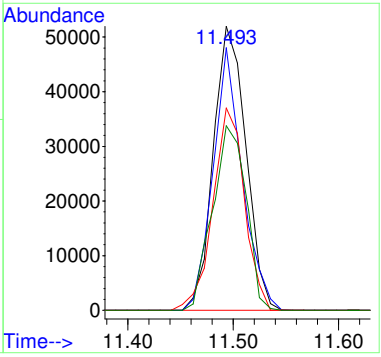


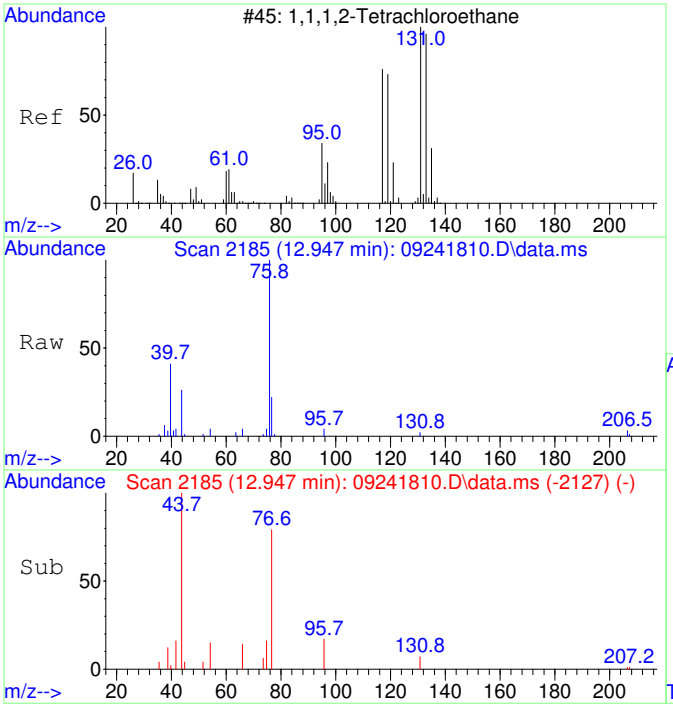


#39
Tetrachloroethene SCAN
Concen: 30524.09 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.010 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:166 Resp: 111861

Ion	Ratio	Lower	Upper
166	100		
164	83.7	43.3	103.3
131	68.9	35.6	95.6
129	67.1	36.6	96.6

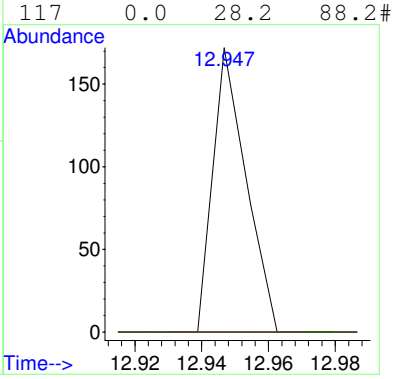


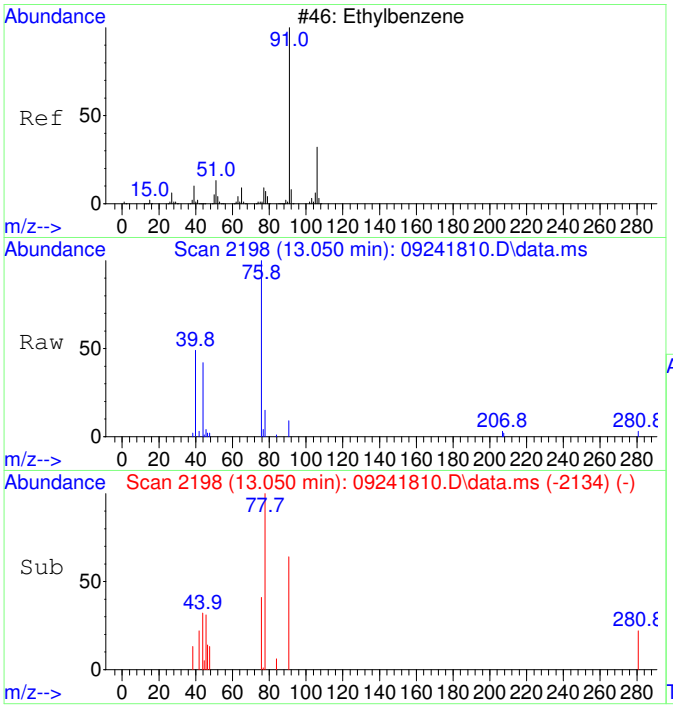


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 32.91 ug/L
RT: 12.947 min Scan# 2185
Delta R.T. -0.040 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:131 Resp: 119

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

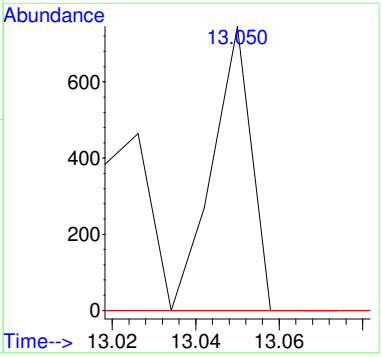


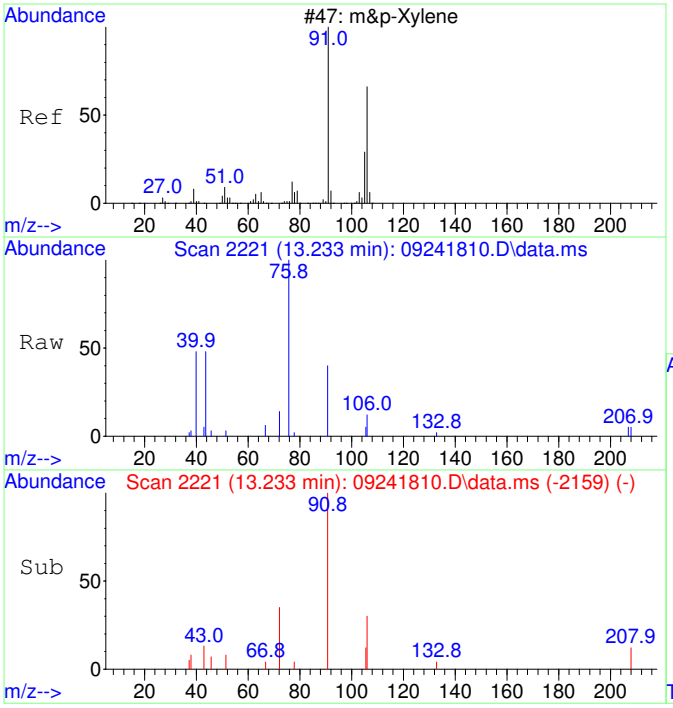


#42
Ethylbenzene SCAN
Concen: 24.93 ug/L
RT: 13.050 min Scan# 2198
Delta R.T. 0.008 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 484

Ion	Ratio	Lower	Upper
91	100		
106	0.0	3.2	63.2#
51	0.0	0.0	40.1

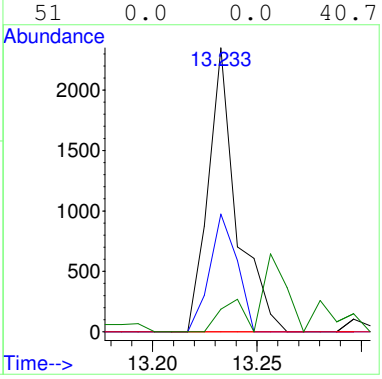


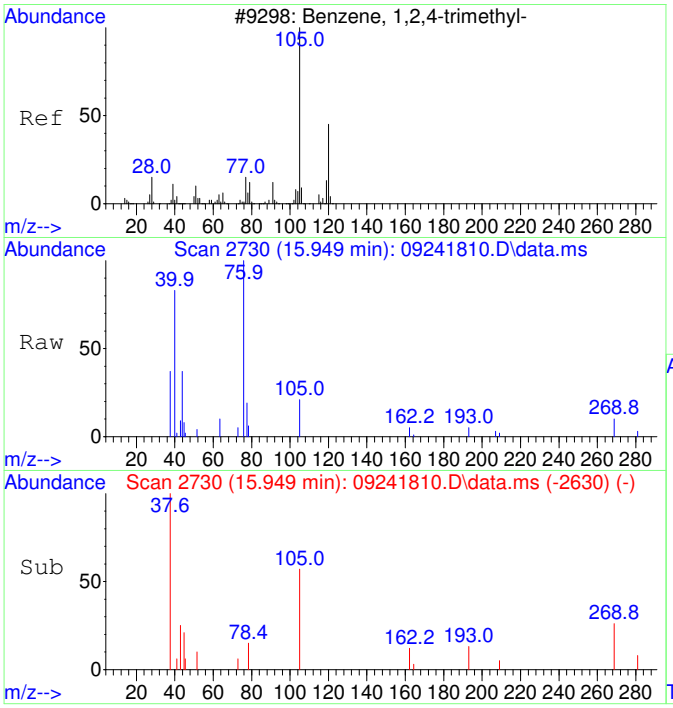


#43
m&p-Xylene SCAN
Concen: 82.83 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 2232

Ion	Ratio	Lower	Upper
91	100		
106	39.9	20.1	80.1
105	0.0	0.0	51.1
51	0.0	0.0	40.7

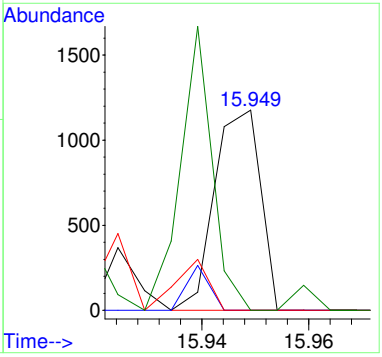




#47
1,2,4-Trimethylbenzene SCAN
Concen: 45.18 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. -0.005 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:105 Resp: 704

Ion	Ratio	Lower	Upper
105	100		
120	11.2	15.4	75.4#
119	0.0	0.0	41.7
77	97.7	0.0	42.0#



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241810.D
Acq On : 24 Sep 2018 15:48
InstName : AG5975C
Operator : RH
Sample : 1809026-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

M.I. Performed By:
RH at 3:31 pm, Sep 26, 2018

M.I. Approved By:
KO at 12:02 pm, Sep 27, 2018

Quant Time: Sep 24 17:19:30 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

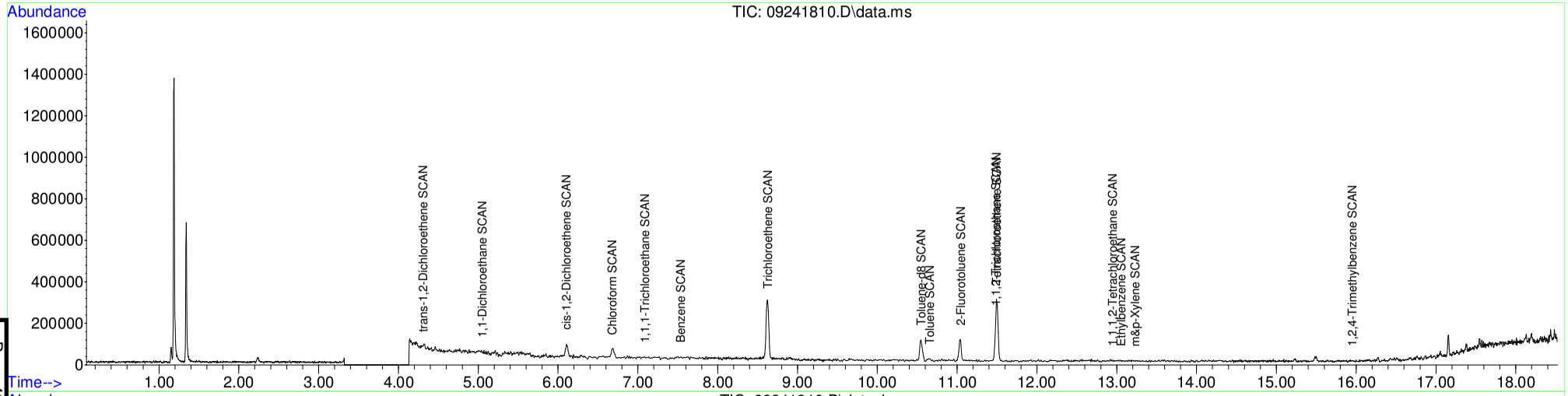
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	124110	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	104453	5181.40 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.63%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	280m	53.83 ug/L	
3] trans-1,2-Dichloroethene	4.309	61	5076	914.65 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	75008	11007.61 ug/L	100
6] Chloroform	6.676	83	60653	8266.45 ug/L	99
8] Carbon tetrachloride	7.211	117	191	27.92 ug/L #	22
11] Trichloroethene	8.624	130	173804	31734.68 ug/L	98 OC
13] Toluene	10.645	91	8458	312.92 ug/L	98
15] Tetrachloroethene	11.495	166	184332	24205.38 ug/L	100
18] Ethylbenzene	13.043	91	690	21.27 ug/L	91
19] m&p-Xylene	13.226	91	2059	82.25 ug/L	95
20] o-Xylene	13.846	91	770	29.04 ug/L	91
23] 1,2,4-Trimethylbenzene	15.955	105	1013	33.76 ug/L	92
25) 2-Fluorotoluene SCAN	11.042	109	84798	5863.45 ug/L	94
27) trans-1,2-Dichloroethe...	4.308	61	3302	785.94 ug/L	75
28) 1,1-Dichloroethane SCAN	5.045	63	143	26.75 ug/L #	43
29) cis-1,2-Dichloroethene...	6.106	61	43940	9505.75 ug/L	92
30) Chloroform SCAN	6.675	83	39926	7036.92 ug/L	95
31) 1,1,1-Trichloroethane ...	7.088	97	201	39.80 ug/L #	26
33) Benzene SCAN	7.538	78	1770	117.52 ug/L #	58
35) Trichloroethene SCAN	8.628	130	115408	31312.49 ug/L	97
36) Toluene-d8 SCAN	10.549	98	77941	5961.66 ug/L	96
37) Toluene SCAN	10.654	91	7885	472.15 ug/L	88
38) 1,1,2-Trichloroethane ...	11.483	97	696	217.49 ug/L #	1
39) Tetrachloroethene SCAN	11.493	166	111861	30524.09 ug/L	94
41) 1,1,1,2-Tetrachloroeth...	12.947	131	119	32.91 ug/L #	13
42) Ethylbenzene SCAN	13.050	91	484	24.93 ug/L #	49
43) m&p-Xylene SCAN	13.233	91	2232	82.83 ug/L #	76
47) 1,2,4-Trimethylbenzene...	15.949	105	704	45.18 ug/L #	22

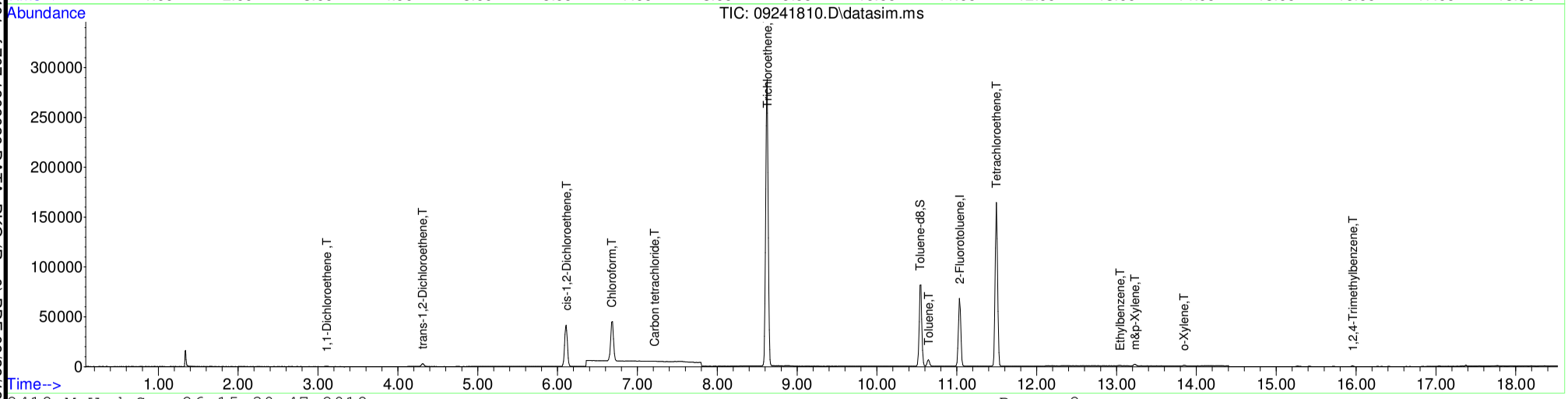
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241810.D
Acq On : 24 Sep 2018 15:48
InstName : AG5975C
Operator : RH
Sample : 1809026-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 17:19:30 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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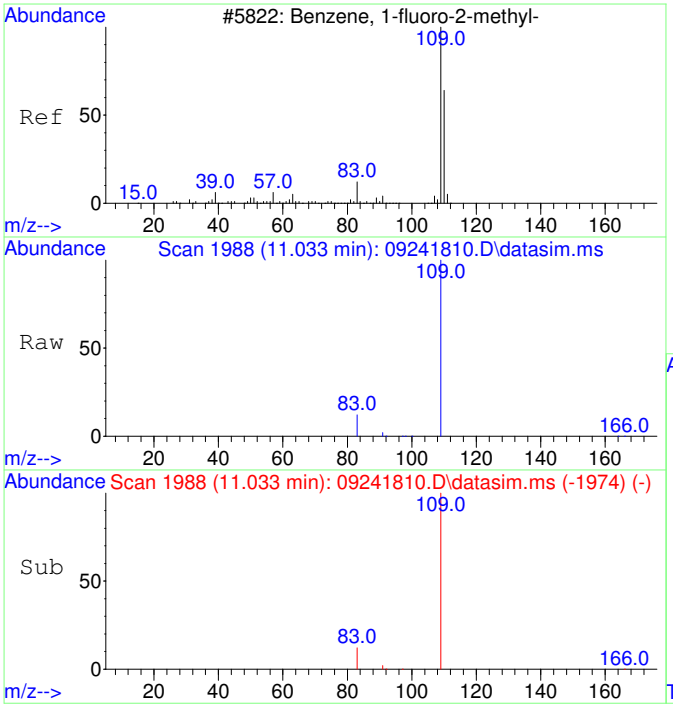
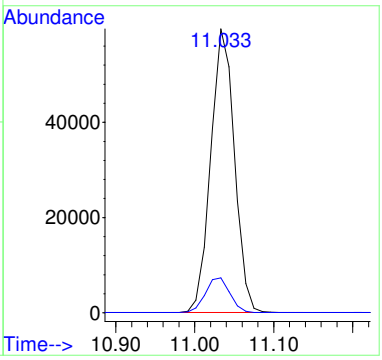
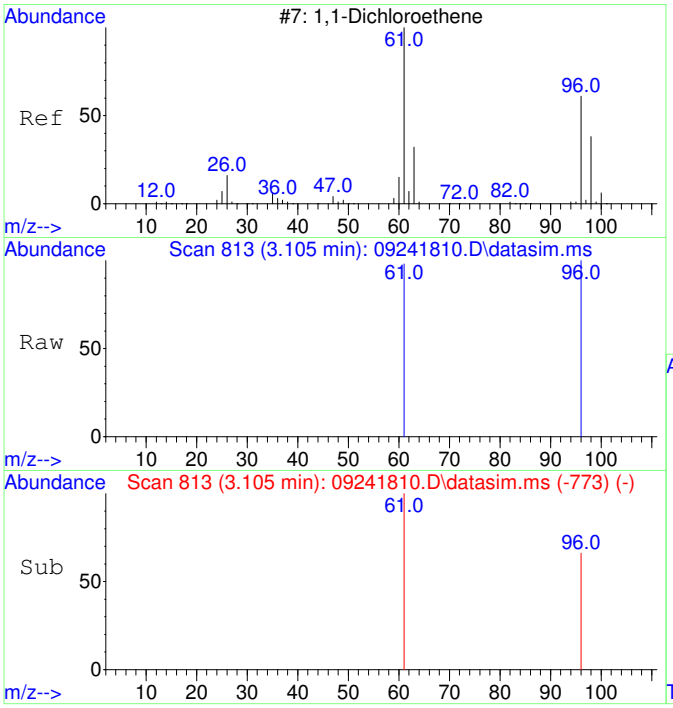


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:109 Resp: 124110

Ion	Ratio	Lower	Upper
109	100		
83	12.6	0.0	44.7

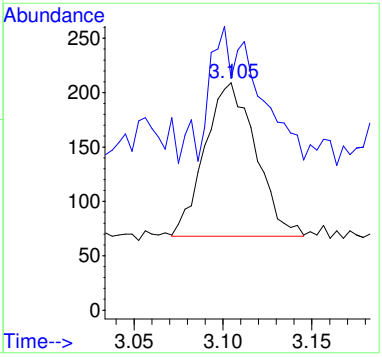


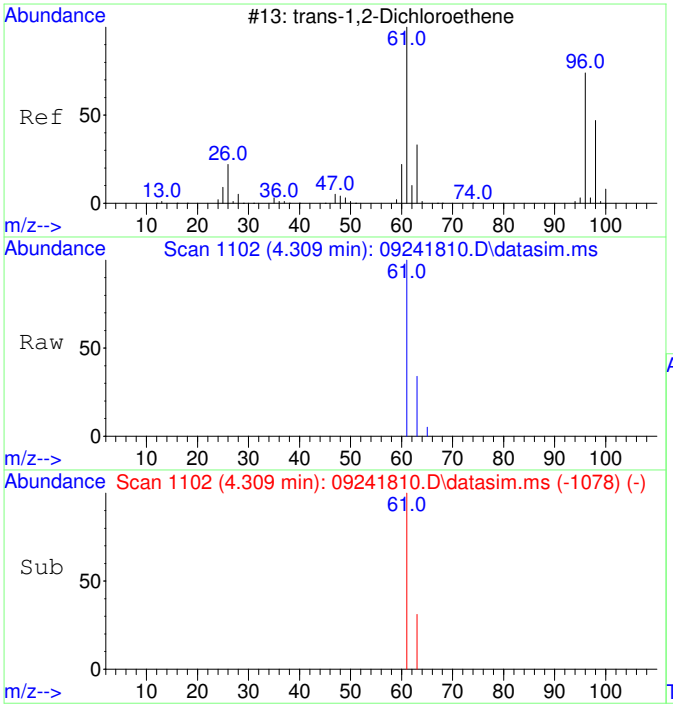


#2
1,1-Dichloroethene
Concen: 53.83 ug/L m
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 61 Resp: 280

Ion	Ratio	Lower	Upper
61	100		
96	73.6	28.7	88.7

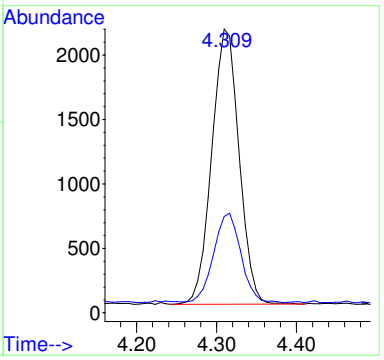


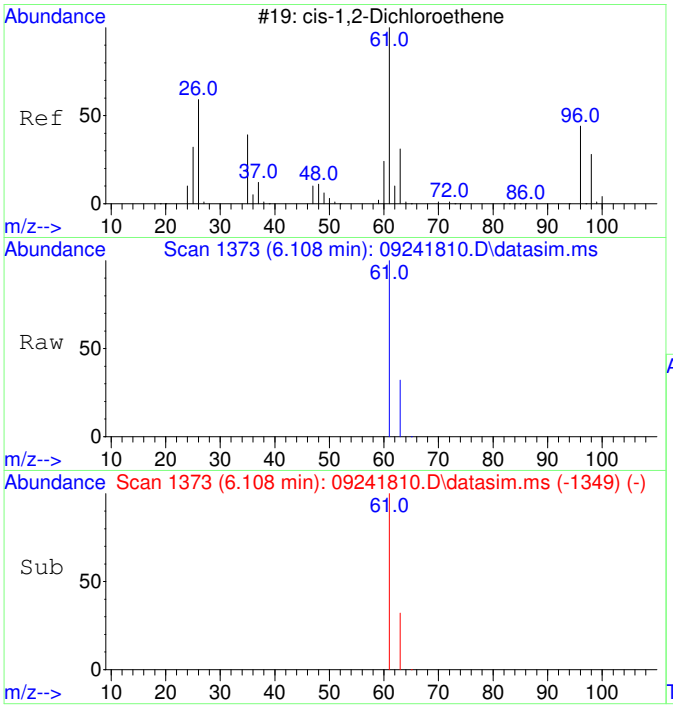


#3
trans-1,2-Dichloroethene
Concen: 914.65 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 61 Resp: 5076

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.0	62.0

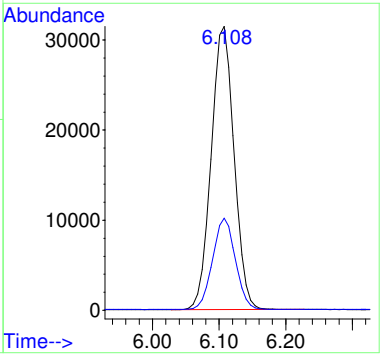


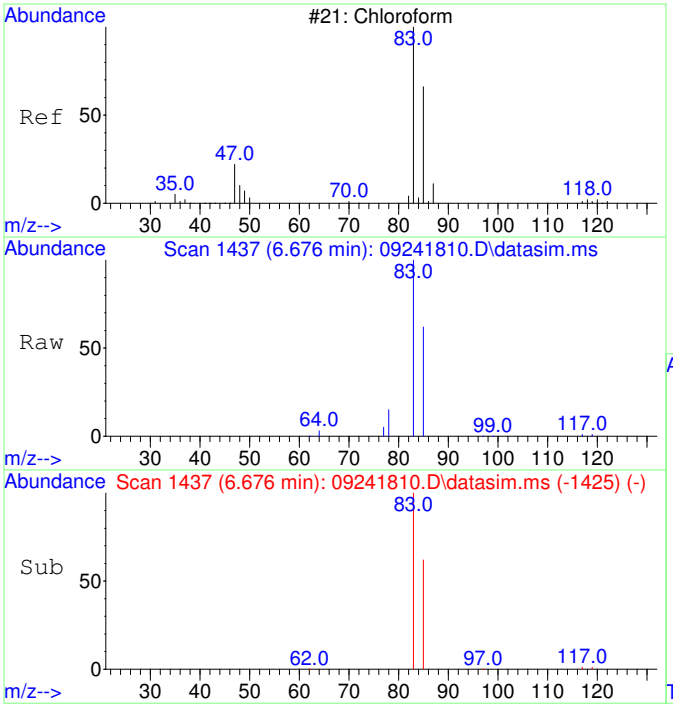


#5
cis-1,2-Dichloroethene
Concen: 11007.61 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.007 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 61 Resp: 75008

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.2	62.2

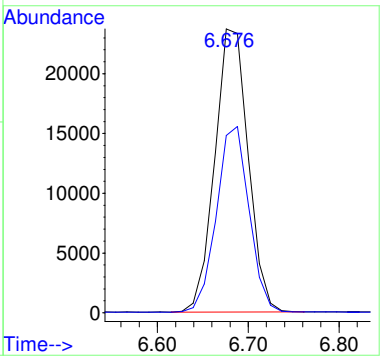


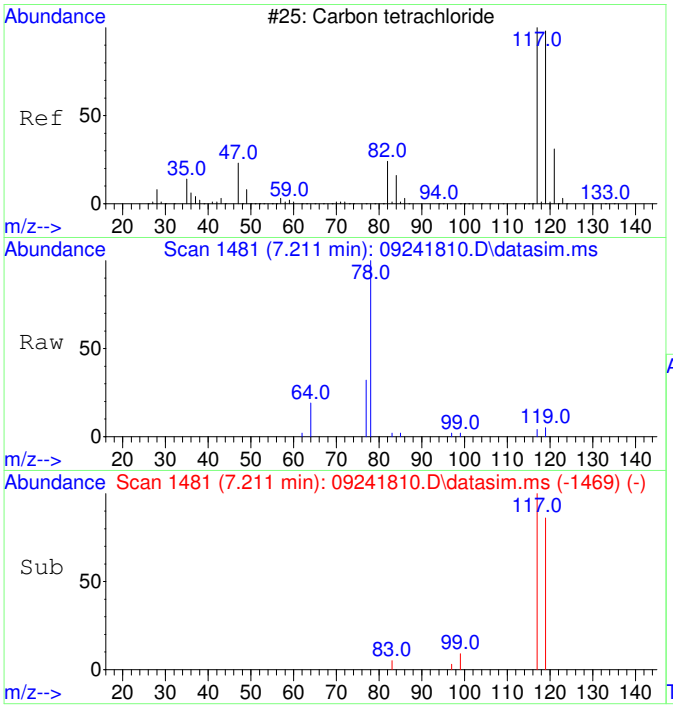


#6
Chloroform
Concen: 8266.45 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 83 Resp: 60653

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.8	94.8

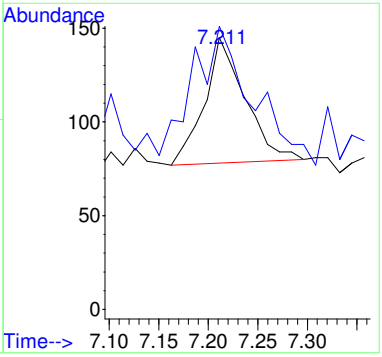


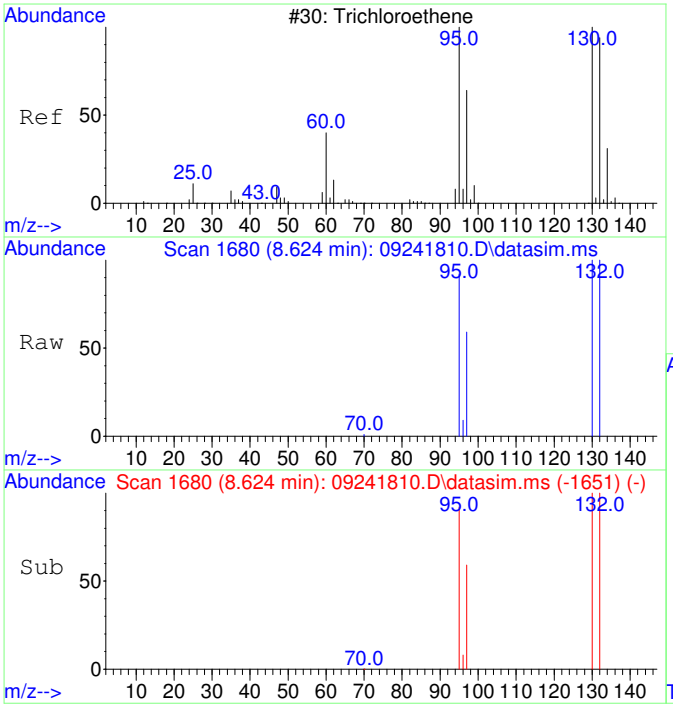


#8
Carbon tetrachloride
Concen: 27.92 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:117 Resp: 191

Ion	Ratio	Lower	Upper
117	100		
119	171.7	65.9	125.9#

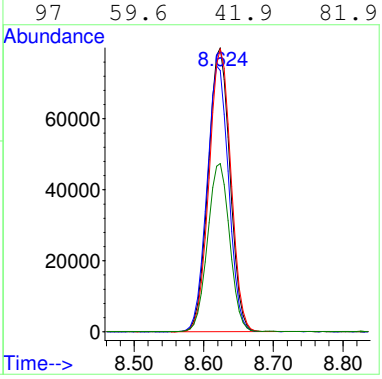


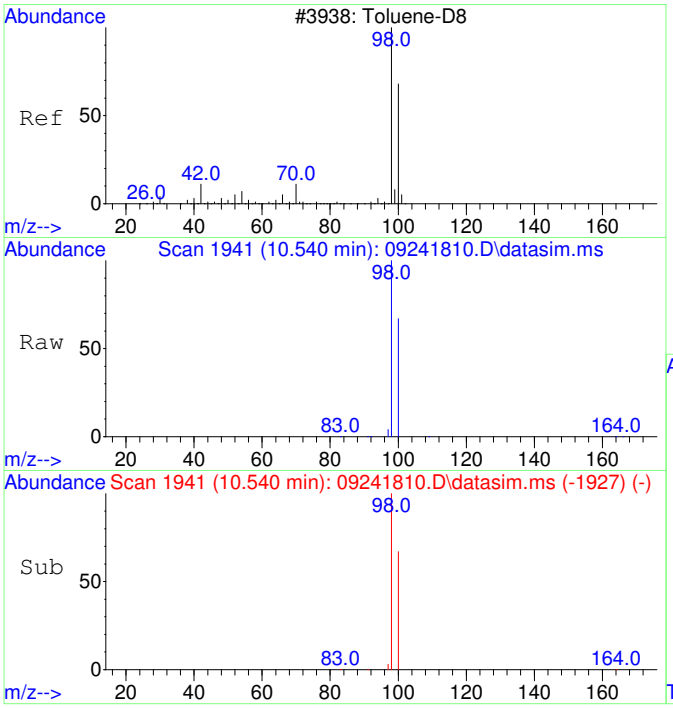


#11
Trichloroethene
Concen: 31734.68 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:130 Resp: 173804

Ion	Ratio	Lower	Upper
130	100		
95	93.3	66.0	126.0
132	99.4	78.8	118.8
97	59.6	41.9	81.9

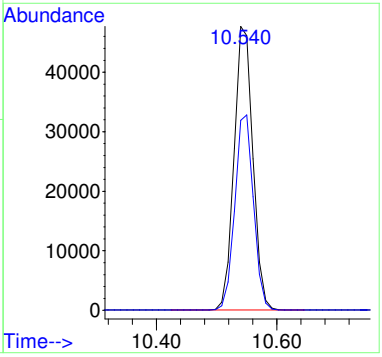


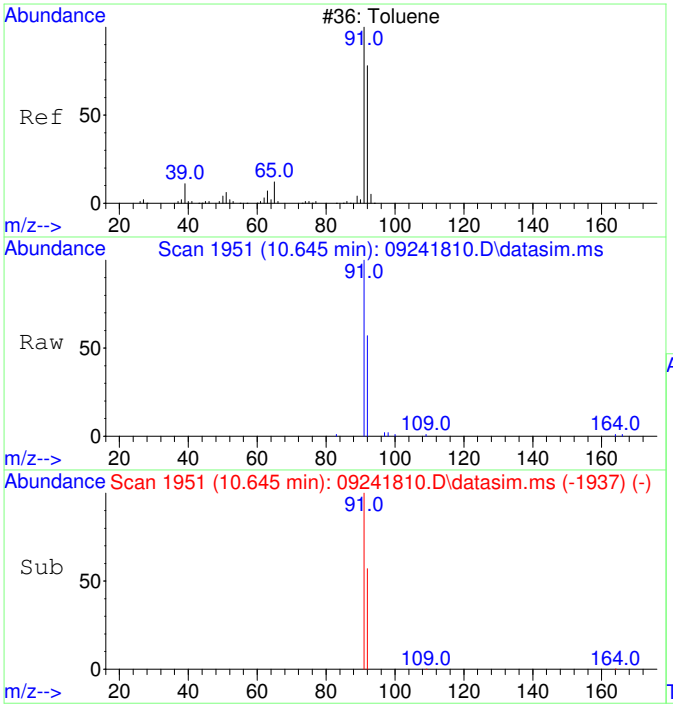


#12
Toluene-d8
Concen: 5181.40 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 98 Resp: 104453

Ion	Ratio	Lower	Upper
98	100		
100	68.2	38.7	98.7

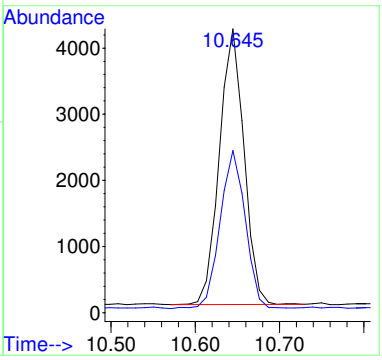


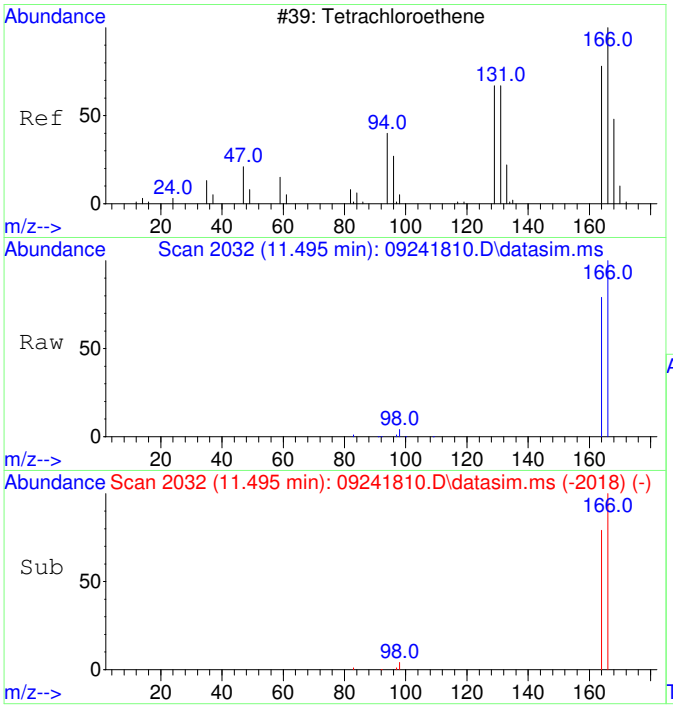


#13
Toluene
Concen: 312.92 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 8458

Ion	Ratio	Lower	Upper
91	100		
92	58.4	30.0	90.0

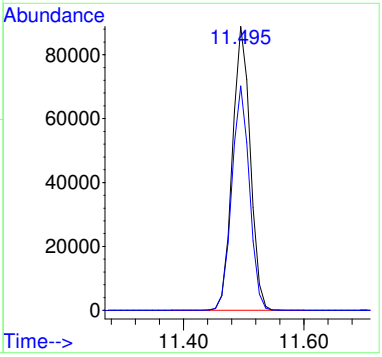


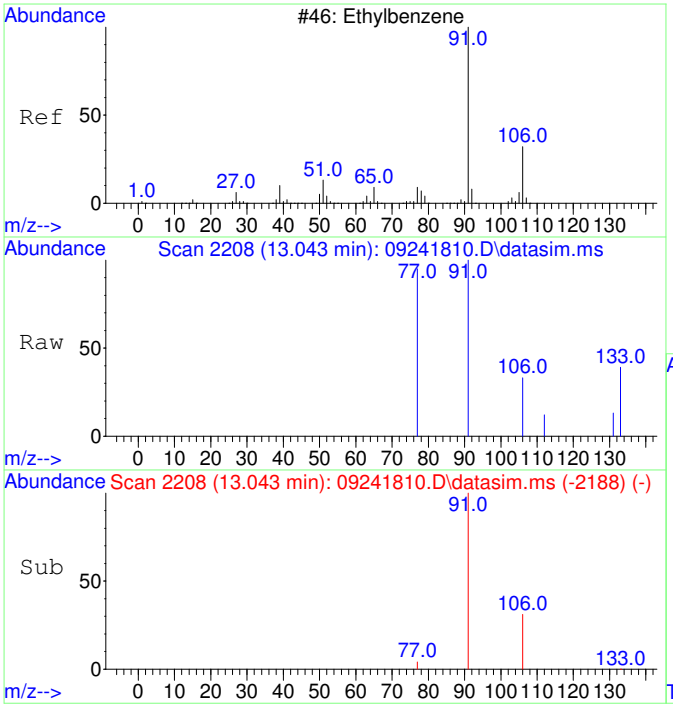


#15
Tetrachloroethene
Concen: 24205.38 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:166 Resp: 184332

Ion	Ratio	Lower	Upper
166	100		
164	78.0	47.8	107.8

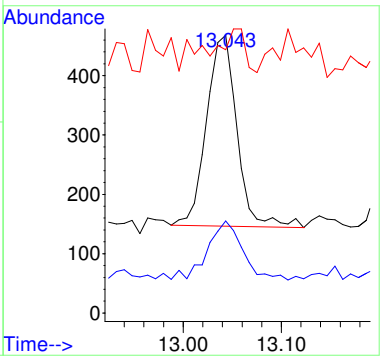


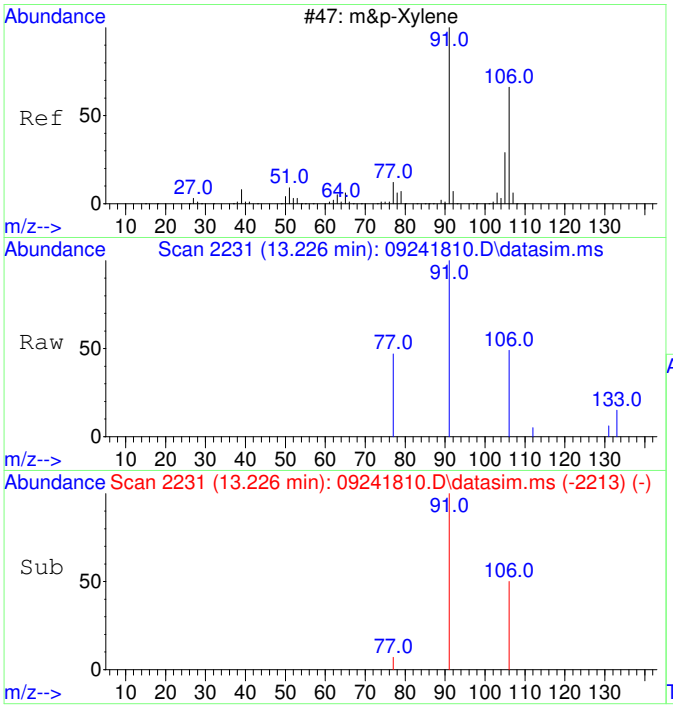


#18
Ethylbenzene
Concen: 21.27 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.008 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 690

Ion	Ratio	Lower	Upper
91	100		
106	35.9	2.8	62.8
77	17.1	0.0	38.6

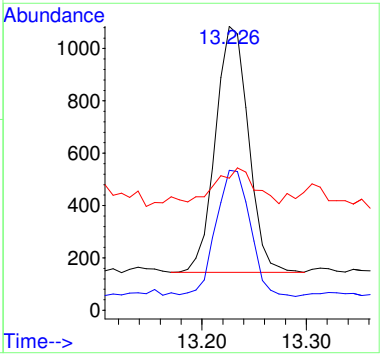


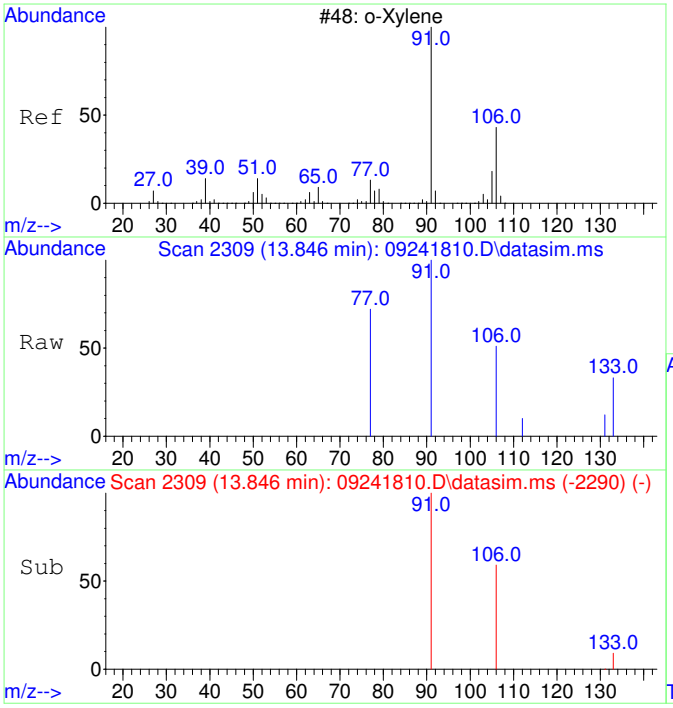


#19
m&p-Xylene
Concen: 82.25 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 2059

Ion	Ratio	Lower	Upper
91	100		
106	53.6	21.2	81.2
77	16.6	0.0	42.9

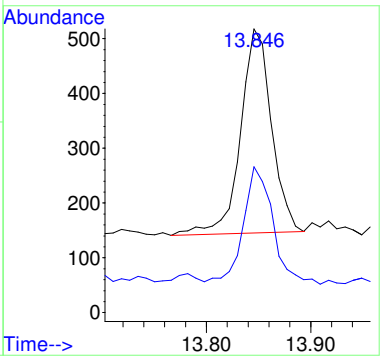


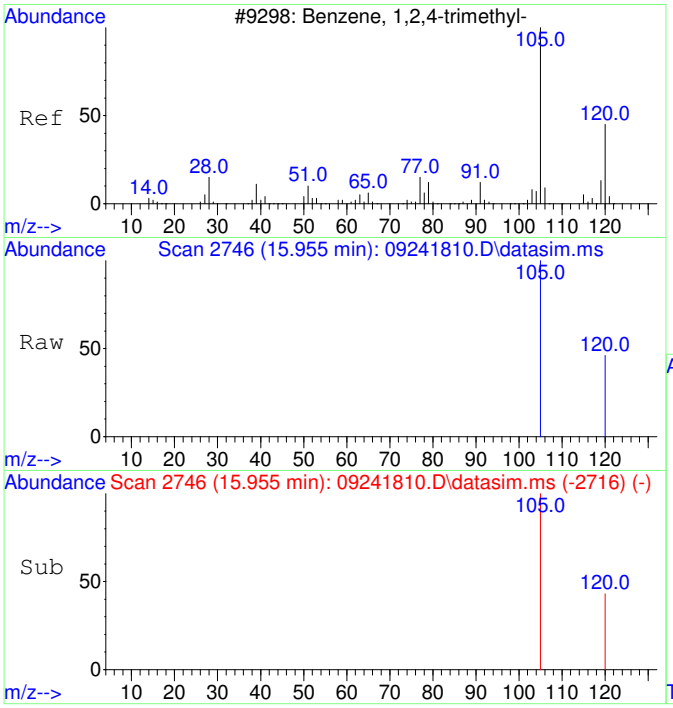


#20
o-Xylene
Concen: 29.04 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 770

Ion	Ratio	Lower	Upper
91	100		
106	54.7	18.3	78.3

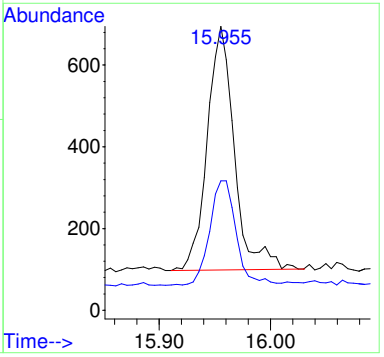


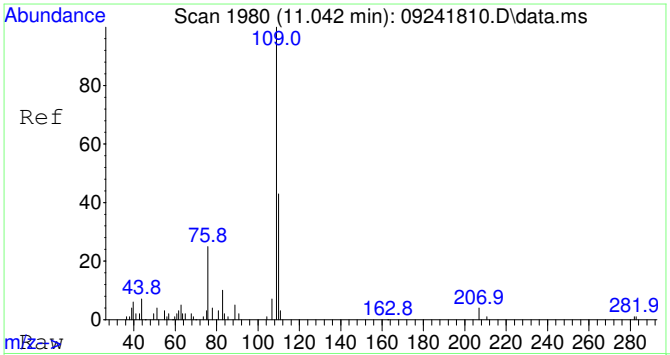


#23
1,2,4-Trimethylbenzene
Concen: 33.76 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:105 Resp: 1013

Ion	Ratio	Lower	Upper
105	100		
120	40.3	15.5	75.5

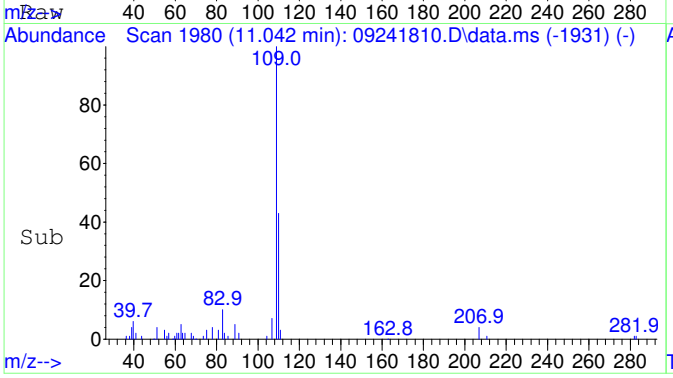


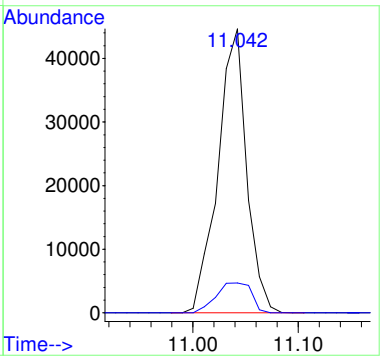


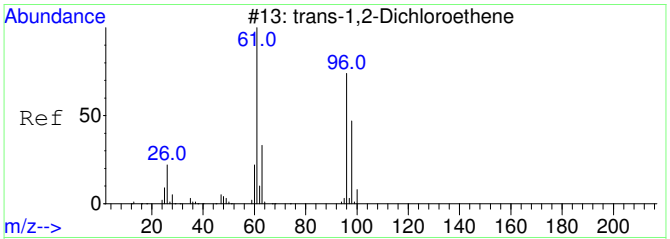
#25
2-Fluorotoluene SCAN
Concen: 5863.45 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.011 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:109 Resp: 84798

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	45.7



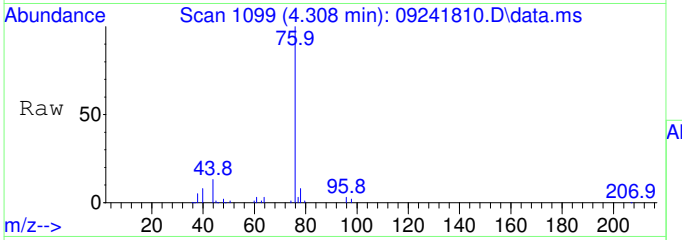


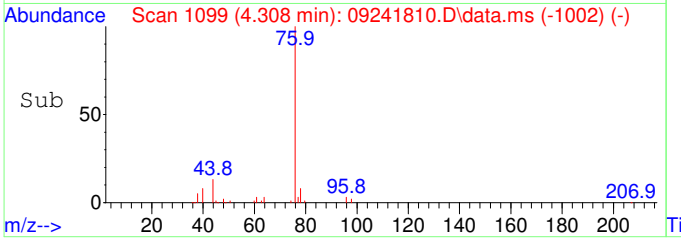


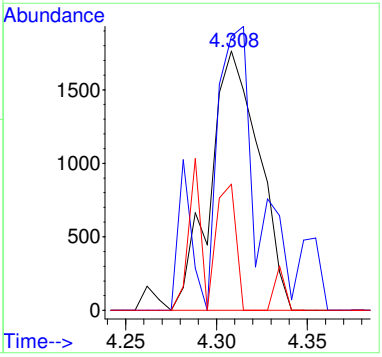
#27
trans-1,2-Dichloroethene SCAN
Concen: 785.94 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. 0.000 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

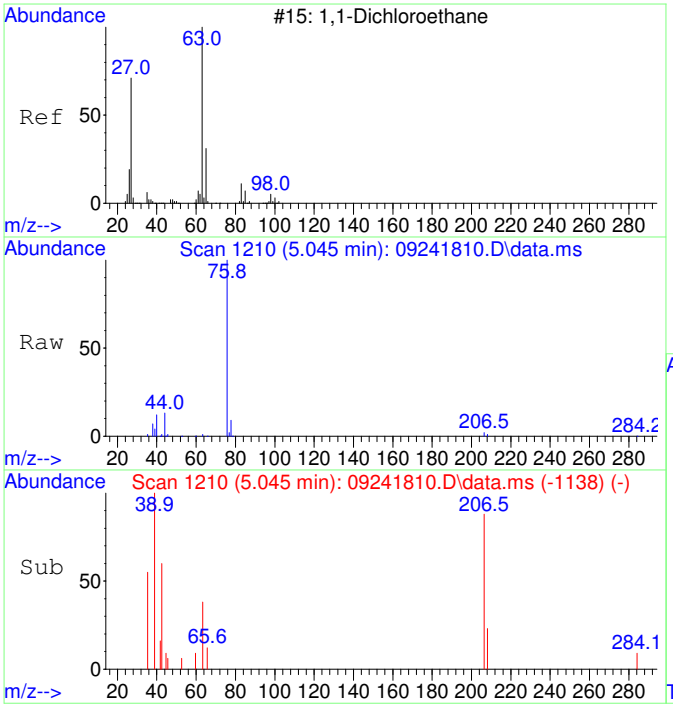
Tgt Ion: 61 Resp: 3302

Ion	Ratio	Lower	Upper
61	100		
96	82.5	37.9	97.9
98	19.6	12.7	72.7





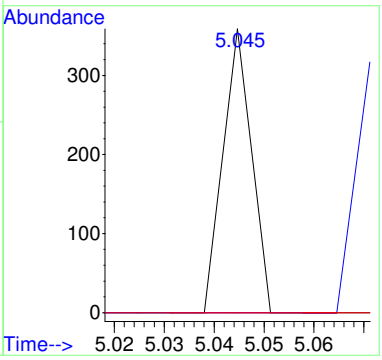


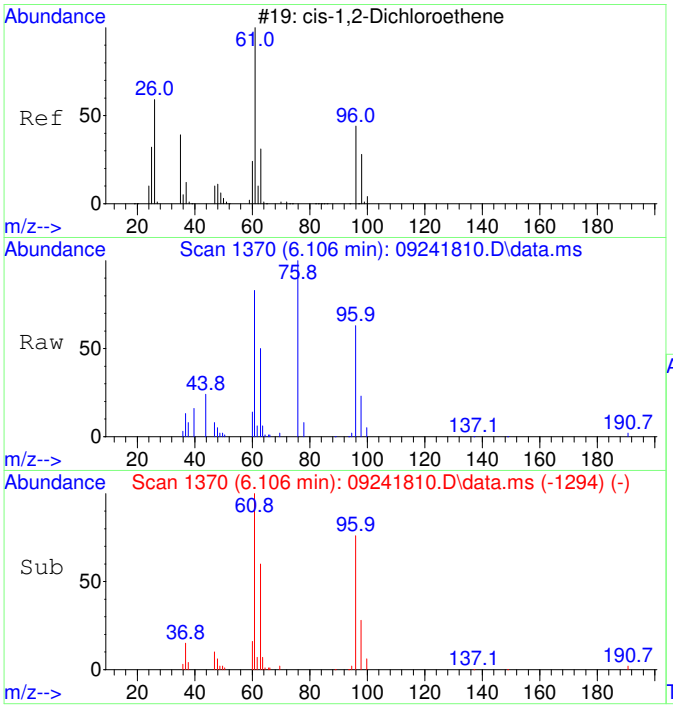


#28
1,1-Dichloroethane SCAN
Concen: 26.75 ug/L
RT: 5.045 min Scan# 1210
Delta R.T. -0.020 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 63 Resp: 143

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

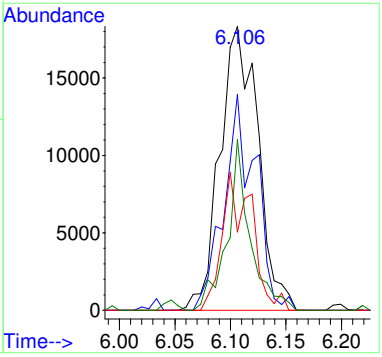


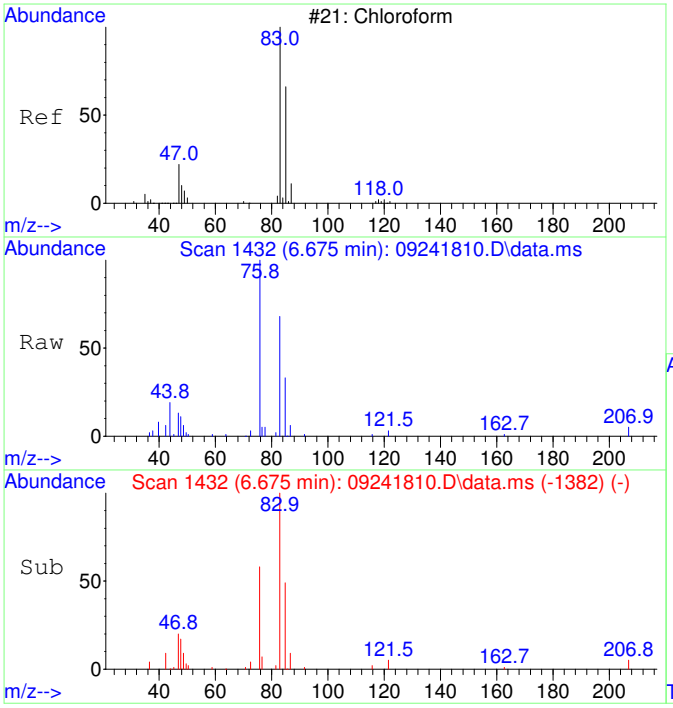


#29
cis-1,2-Dichloroethene SCAN
Concen: 9505.75 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. 0.007 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 61 Resp: 43940

Ion	Ratio	Lower	Upper
61	100		
96	63.4	28.2	88.2
98	37.7	14.1	74.1
63	36.0	1.5	61.5

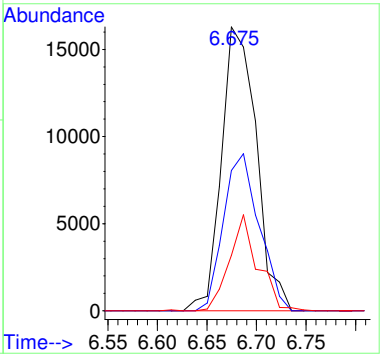


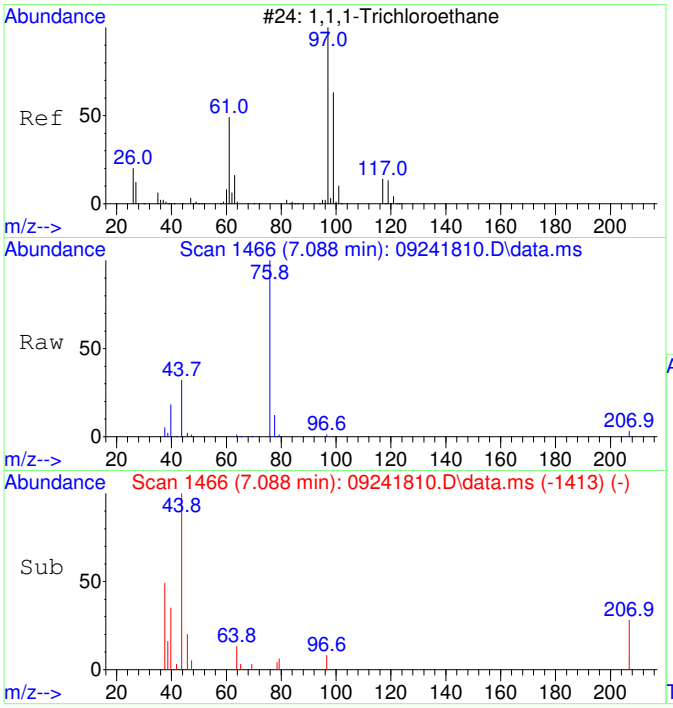


#30
Chloroform SCAN
Concen: 7036.92 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.012 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 83 Resp: 39926

Ion	Ratio	Lower	Upper
83	100		
85	56.8	32.6	92.6
47	27.7	0.0	57.9

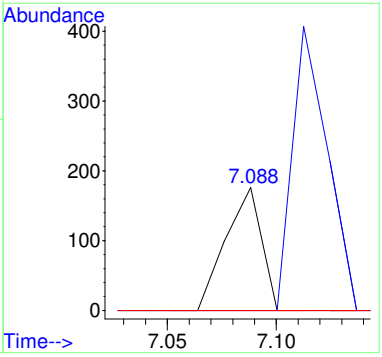


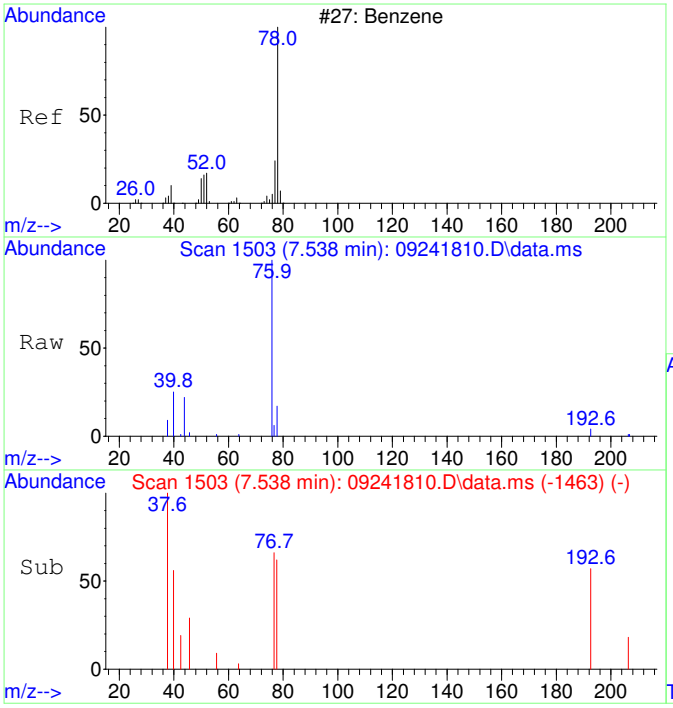


#31
1,1,1-Trichloroethane SCAN
Concen: 39.80 ug/L
RT: 7.088 min Scan# 1466
Delta R.T. 0.146 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 97 Resp: 201

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

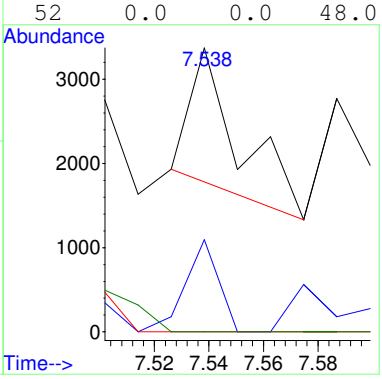


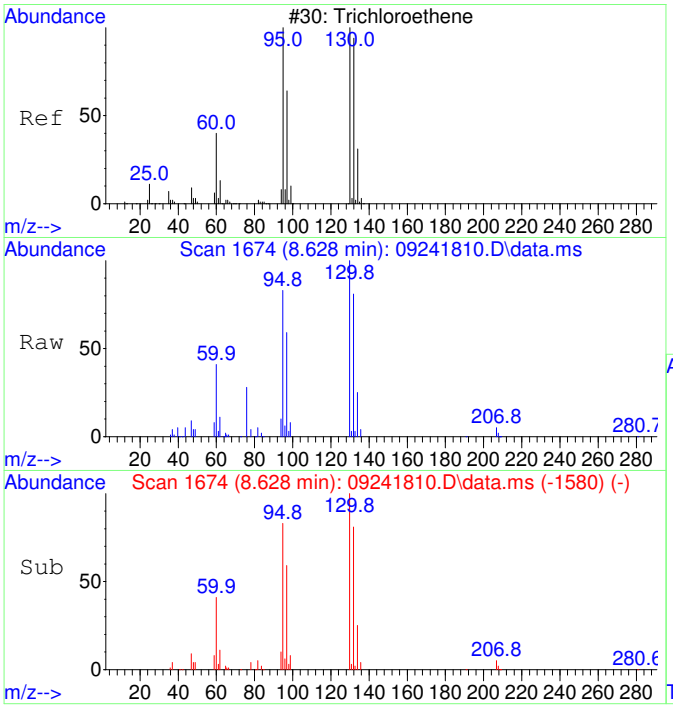


#33
Benzene SCAN
Concen: 117.52 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 78 Resp: 1770

Ion	Ratio	Lower	Upper
78	100		
77	52.7	3.0	63.0
51	0.0	0.0	56.4
52	0.0	0.0	48.0

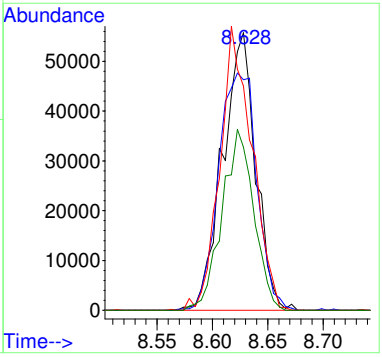


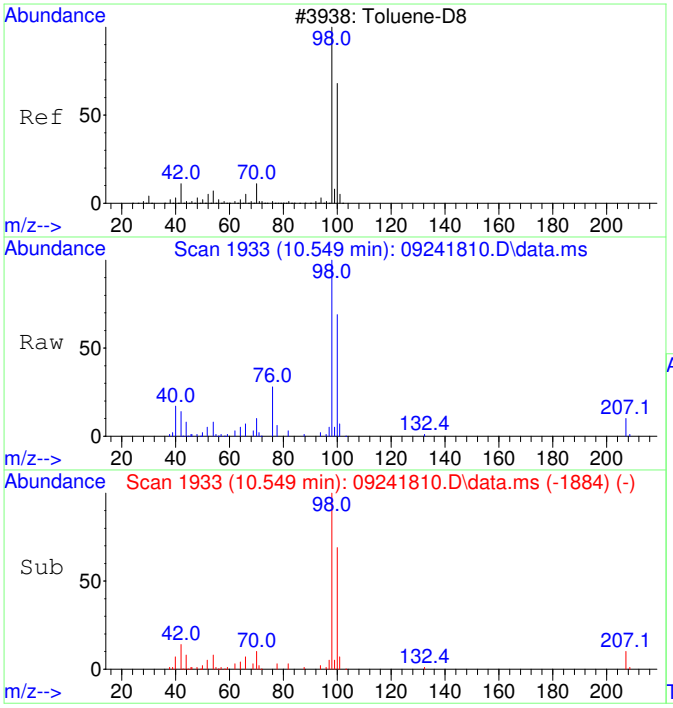


#35
Trichloroethene SCAN
Concen: 31312.49 ug/L
RT: 8.628 min Scan# 1674
Delta R.T. 0.011 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:130 Resp: 115408

Ion	Ratio	Lower	Upper
130	100		
95	99.5	70.5	130.5
132	99.6	63.8	123.8
97	62.8	34.8	94.8

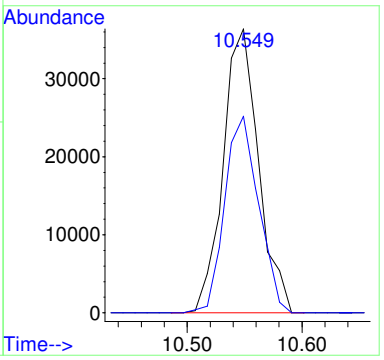


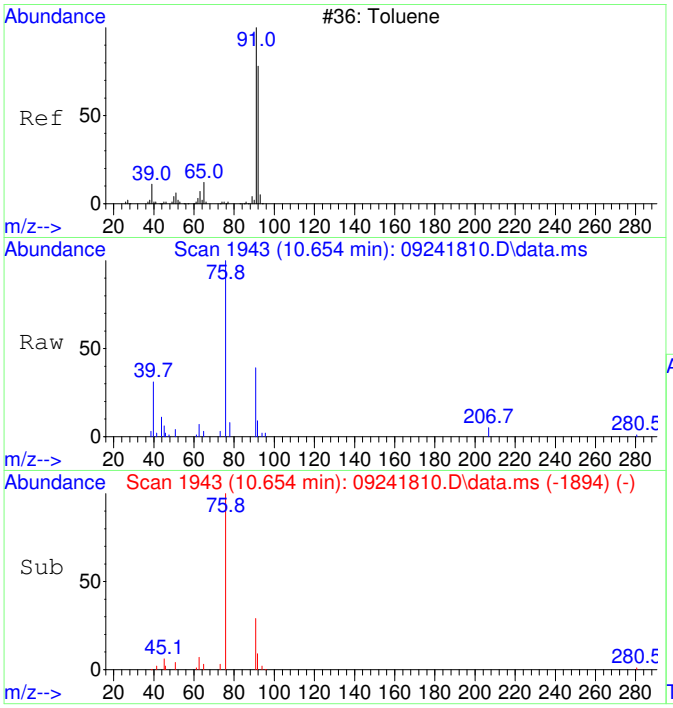


#36
Toluene-d8 SCAN
Concen: 5961.66 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 98 Resp: 77941

Ion	Ratio	Lower	Upper
98	100		
100	66.5	39.5	99.5

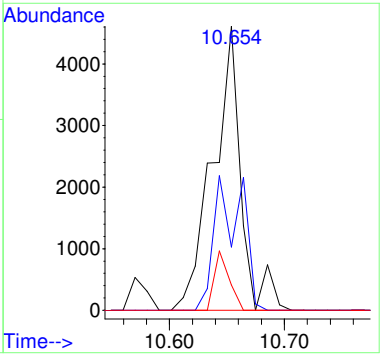


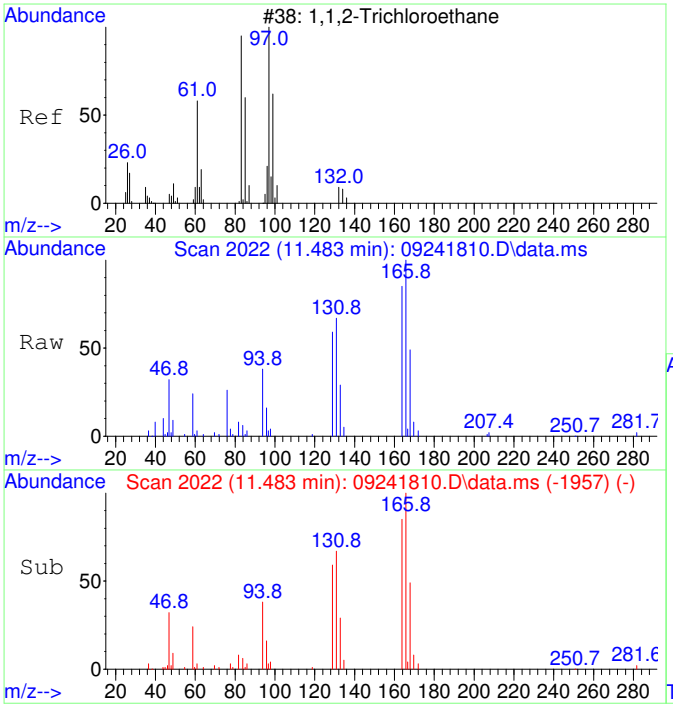


#37
Toluene SCAN
Concen: 472.15 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.011 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 7885

Ion	Ratio	Lower	Upper
91	100		
92	46.5	26.6	86.6
65	11.0	0.0	42.3

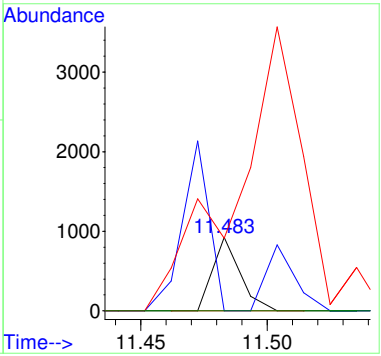


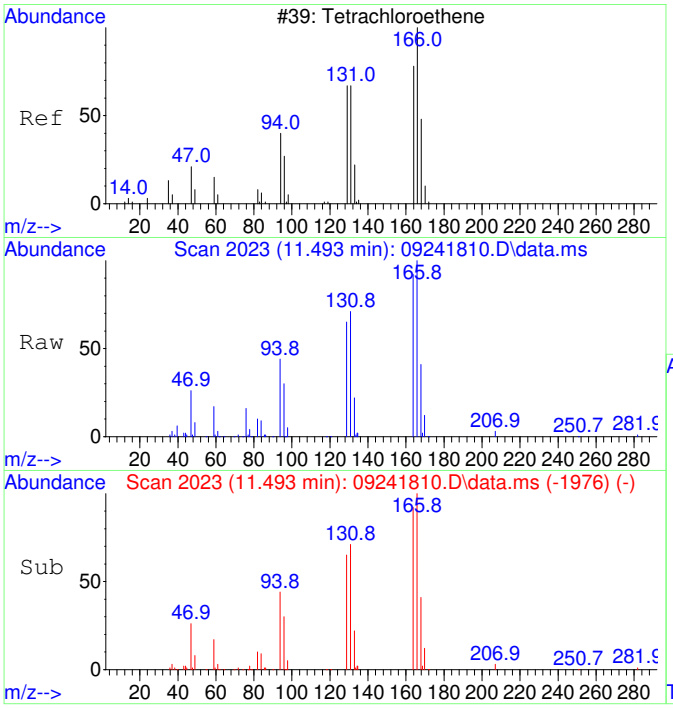


#38
1,1,2-Trichloroethane SCAN
Concen: 217.49 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. 0.178 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 97 Resp: 696

Ion	Ratio	Lower	Upper
97	100		
83	227.3	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

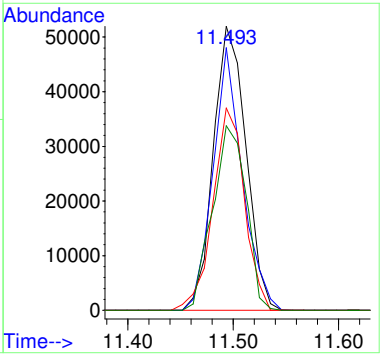


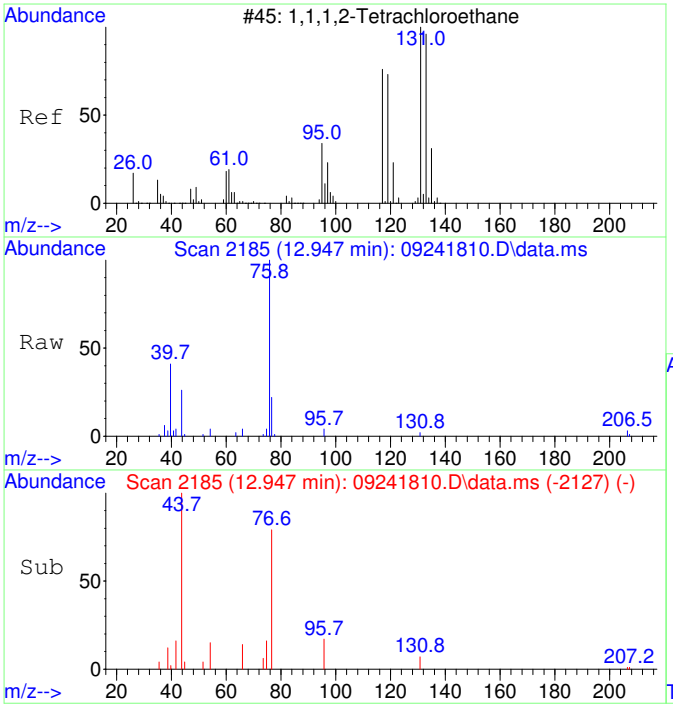


#39
Tetrachloroethene SCAN
Concen: 30524.09 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.010 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:166 Resp: 111861

Ion	Ratio	Lower	Upper
166	100		
164	83.7	43.3	103.3
131	68.9	35.6	95.6
129	67.1	36.6	96.6

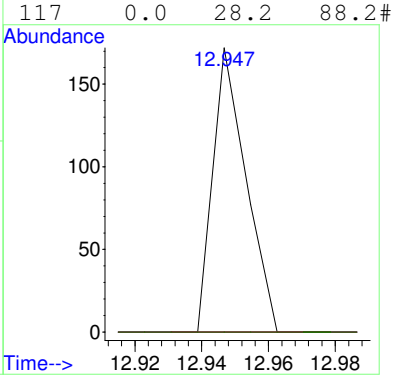


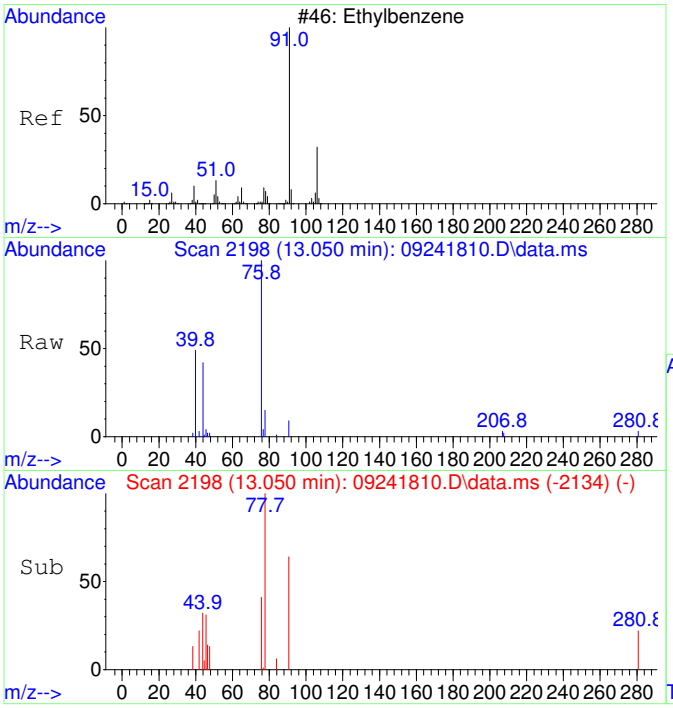


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 32.91 ug/L
RT: 12.947 min Scan# 2185
Delta R.T. -0.040 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:131 Resp: 119

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

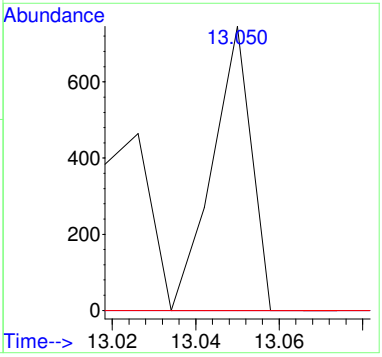


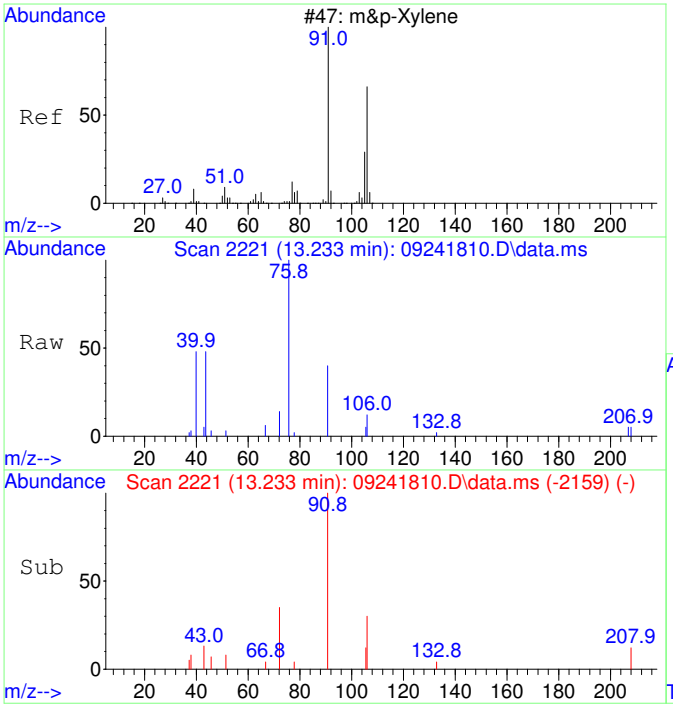


#42
Ethylbenzene SCAN
Concen: 24.93 ug/L
RT: 13.050 min Scan# 2198
Delta R.T. 0.008 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 484

Ion	Ratio	Lower	Upper
91	100		
106	0.0	3.2	63.2#
51	0.0	0.0	40.1

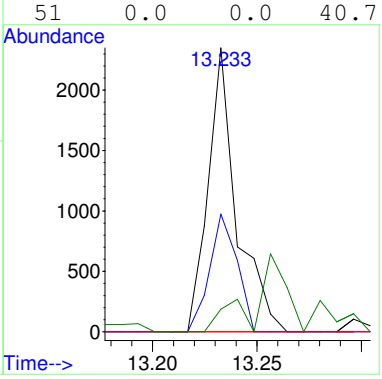


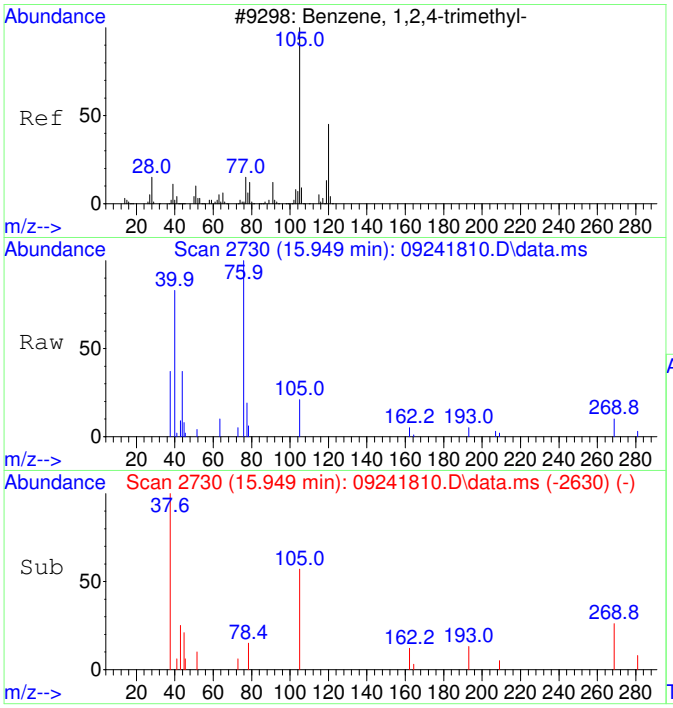


#43
m&p-Xylene SCAN
Concen: 82.83 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion: 91 Resp: 2232

Ion	Ratio	Lower	Upper
91	100		
106	39.9	20.1	80.1
105	0.0	0.0	51.1
51	0.0	0.0	40.7

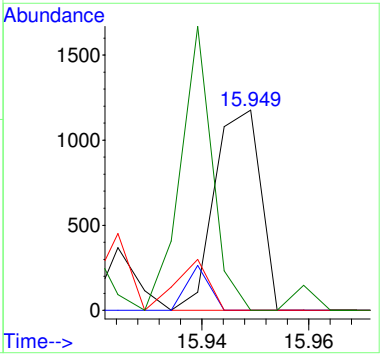




#47
1,2,4-Trimethylbenzene SCAN
Concen: 45.18 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. -0.005 min
Lab File: 09241810.D
Acq: 24 Sep 2018 15:48

Tgt Ion:105 Resp: 704

Ion	Ratio	Lower	Upper
105	100		
120	11.2	15.4	75.4#
119	0.0	0.0	41.7
77	97.7	0.0	42.0#



1809026-02

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241811.D
Acq On : 24 Sep 2018 16:12
InstName : AG5975C
Operator : RH
Sample : 1809026-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 17:19:38 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

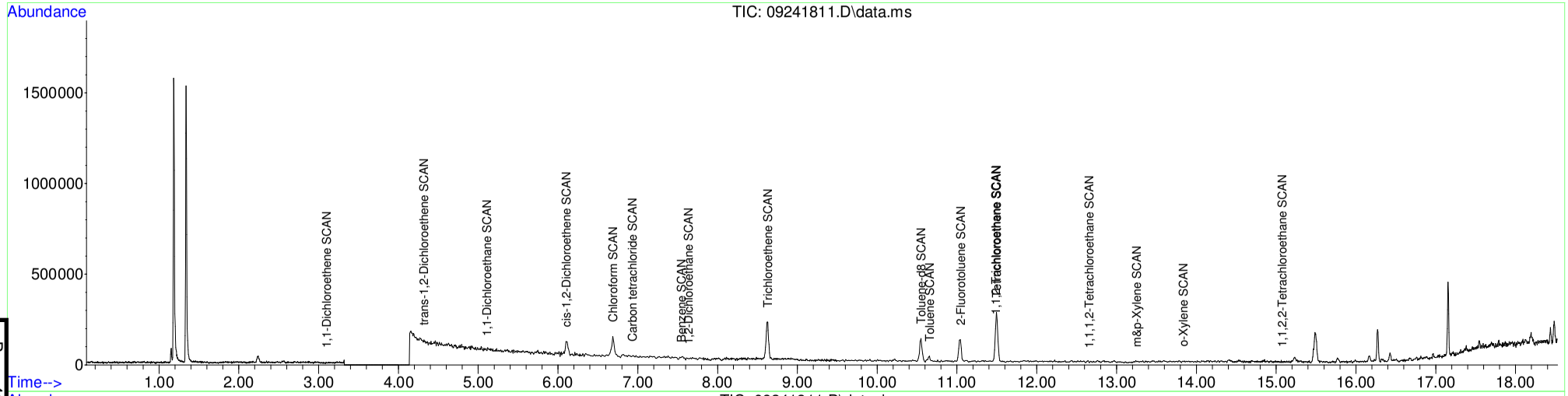
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	158603	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	133171	5169.30 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.39%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	925	139.17 ug/L	81
3] trans-1,2-Dichloroethene	4.309	61	4279	603.35 ug/L	98
5] cis-1,2-Dichloroethene	6.107	61	72368	8310.50 ug/L	100
6] Chloroform	6.688	83	129539	13815.38 ug/L	100
8] Carbon tetrachloride	7.211	117	240	27.45 ug/L #	67
9] Benzene	7.552	78	1457	57.22 ug/L #	6
11] Trichloroethene	8.624	130	125583	17943.23 ug/L	99
13] Toluene	10.645	91	27541	797.34 ug/L	99
14] 1,1,2-Trichloroethane	11.232	97	166	23.25 ug/L #	21
15] Tetrachloroethene	11.495	166	159088	16347.22 ug/L	100
18] Ethylbenzene	13.043	91	1086	26.20 ug/L	86
19] m&p-Xylene	13.226	91	3366	105.21 ug/L	95
20] o-Xylene	13.846	91	1511	44.60 ug/L	97
23] 1,2,4-Trimethylbenzene	15.954	105	1055	27.51 ug/L	84
25) 2-Fluorotoluene SCAN	11.042	109	105428	5704.52 ug/L	99
26) 1,1-Dichloroethene SCAN	3.096	61	94	20.38 ug/L #	30
27) trans-1,2-Dichloroethe...	4.321	61	2313	430.81 ug/L #	69
28) 1,1-Dichloroethane SCAN	5.104	63	542	79.35 ug/L #	61
29) cis-1,2-Dichloroethene...	6.100	61	52246	8844.53 ug/L	93
30) Chloroform SCAN	6.687	83	94413	13021.28 ug/L	96
32) Carbon tetrachloride SCAN	6.930	117	369	58.02 ug/L #	13
33) Benzene SCAN	7.550	78	8650	449.41 ug/L #	55
34) 1,2-Dichloroethane SCAN	7.636	62	780	118.83 ug/L #	53
35) Trichloroethene SCAN	8.623	130	77743	16505.87 ug/L	95
36) Toluene-d8 SCAN	10.549	98	95661	5725.74 ug/L	99
37) Toluene SCAN	10.654	91	24227	1135.19 ug/L	85
38) 1,1,2-Trichloroethane ...	11.483	97	559	136.69 ug/L #	1
39) Tetrachloroethene SCAN	11.493	166	96680	20644.10 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.653	131	251	54.32 ug/L #	15
43) m&p-Xylene SCAN	13.249	91	890	25.85 ug/L #	16
44) o-Xylene SCAN	13.836	91	960	48.98 ug/L #	43
45) 1,1,2,2-Tetrachloroeth...	15.079	83	194	20.89 ug/L #	29

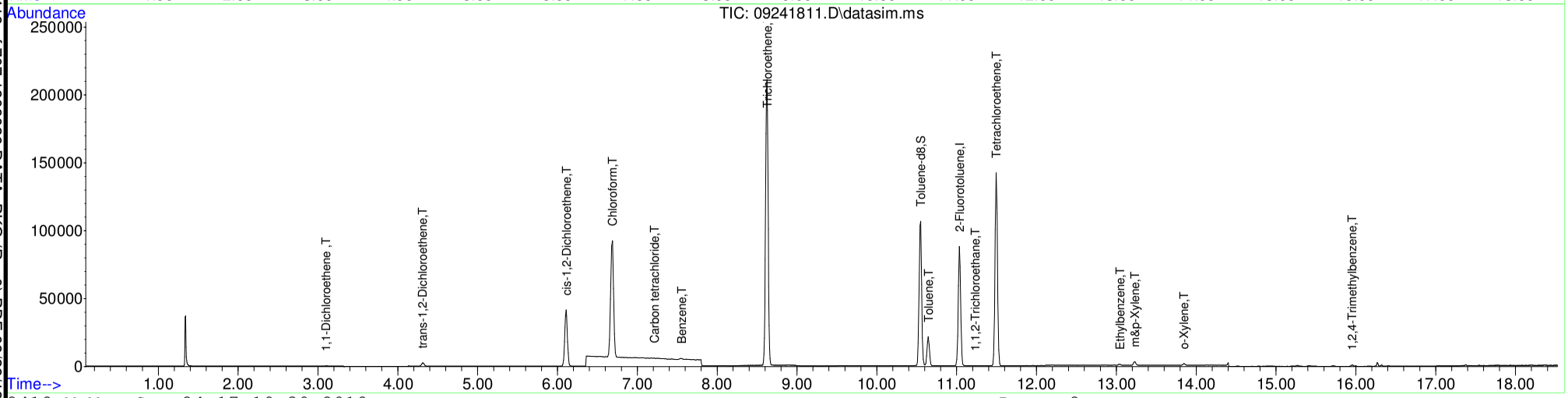
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241811.D
Acq On : 24 Sep 2018 16:12
InstName : AG5975C
Operator : RH
Sample : 1809026-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 17:19:38 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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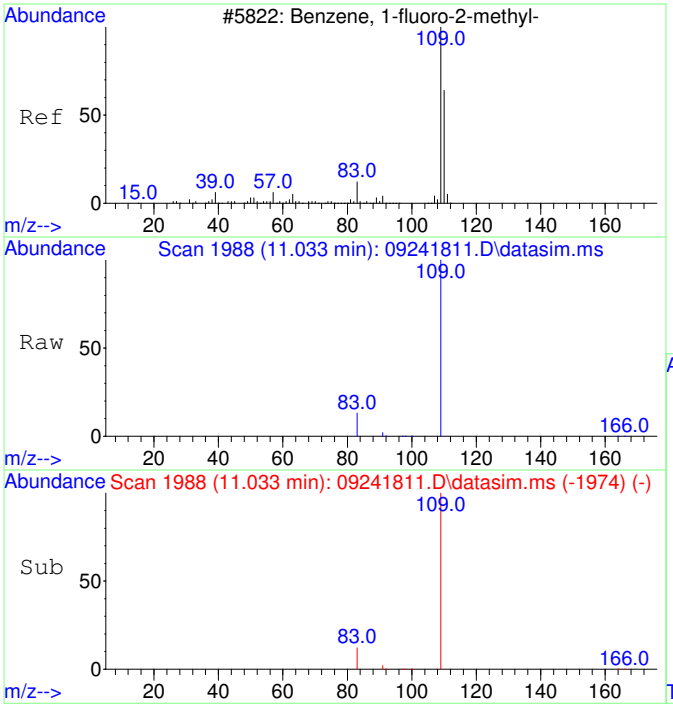
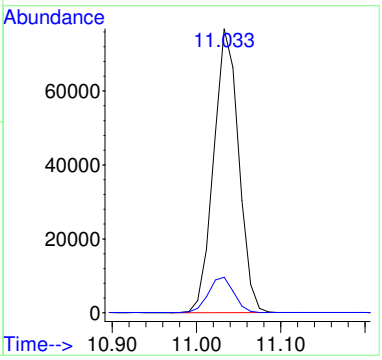
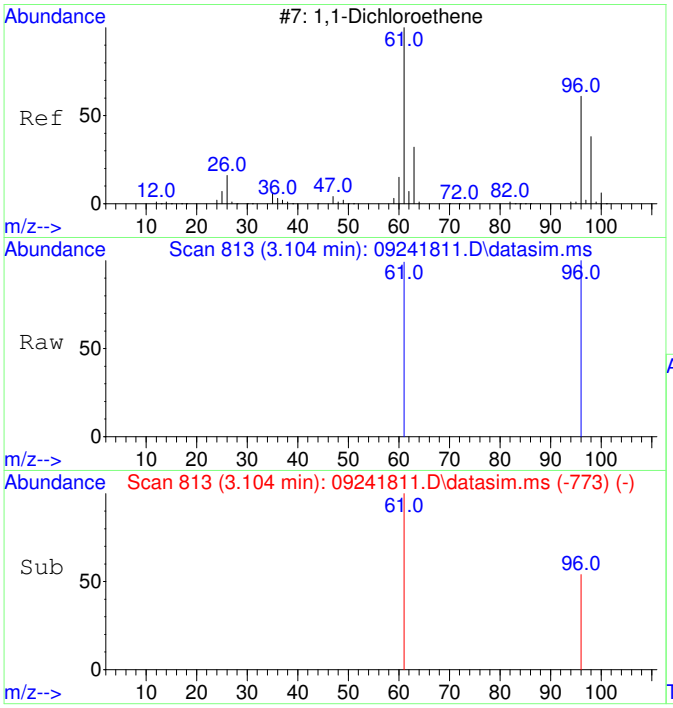


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:109 Resp: 158603

Ion	Ratio	Lower	Upper
109	100		
83	12.8	0.0	44.7



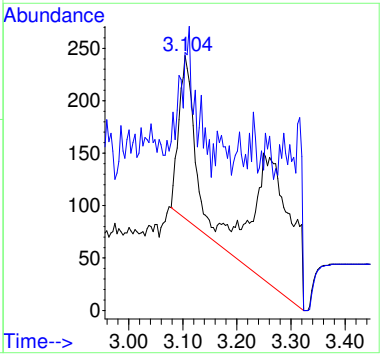


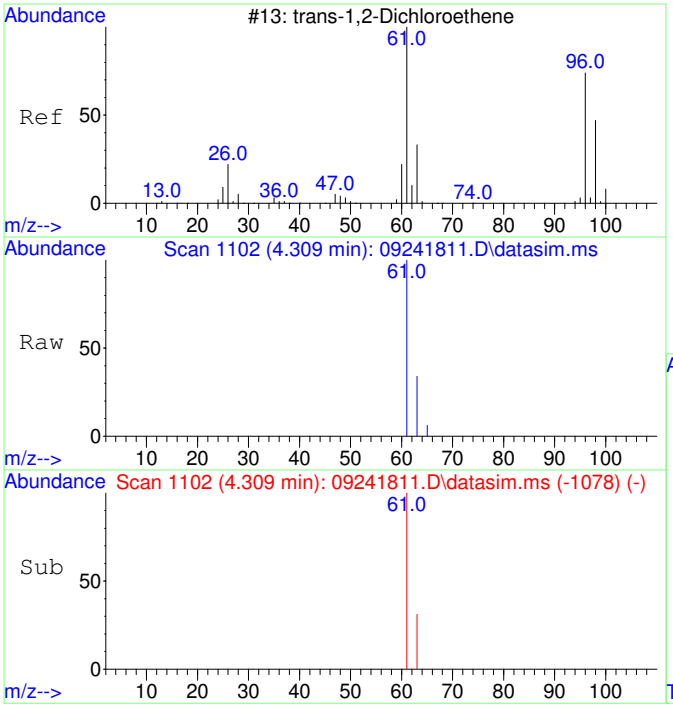
#2
1,1-Dichloroethene
Concen: 139.17 ug/L
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 925

Ion	Ratio	Lower	Upper
61	100		
96	44.8	28.7	88.7

Before MI:
IMPROPER
BASELINE

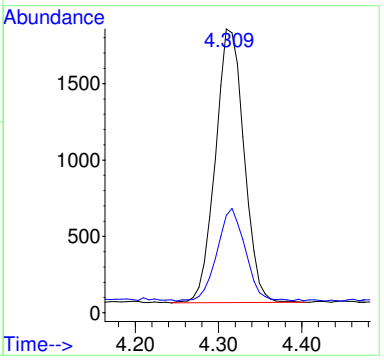


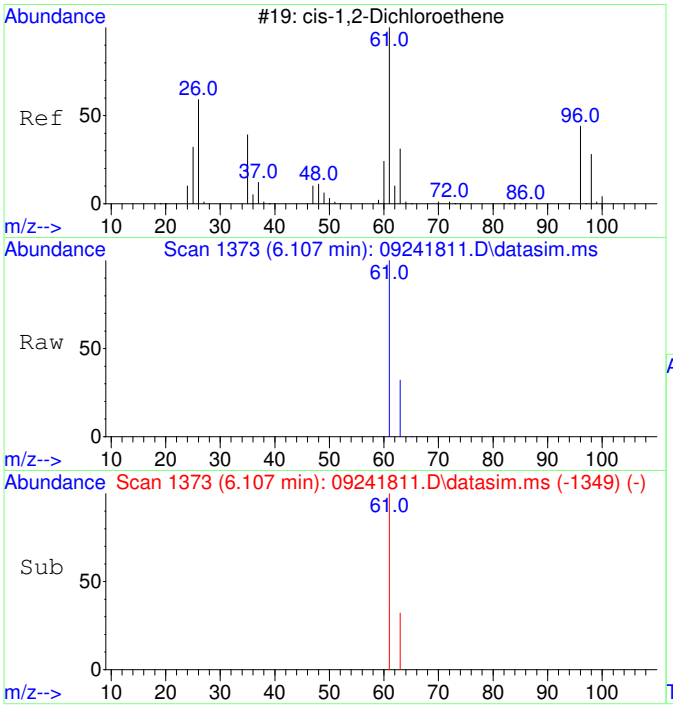


#3
trans-1,2-Dichloroethene
Concen: 603.35 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 4279

Ion	Ratio	Lower	Upper
61	100		
63	33.1	2.0	62.0

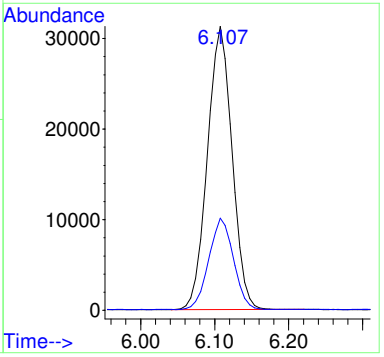


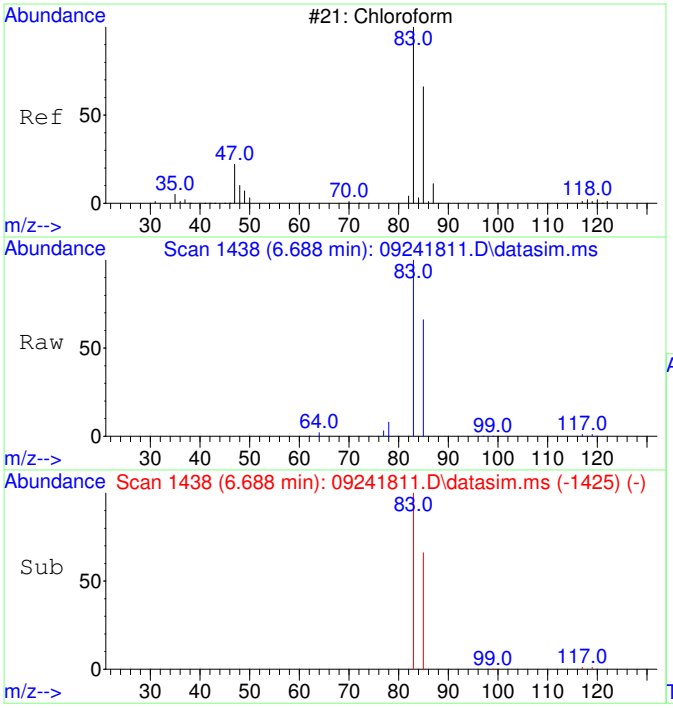


#5
cis-1,2-Dichloroethene
Concen: 8310.50 ug/L
RT: 6.107 min Scan# 1373
Delta R.T. 0.007 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 72368

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.2	62.2

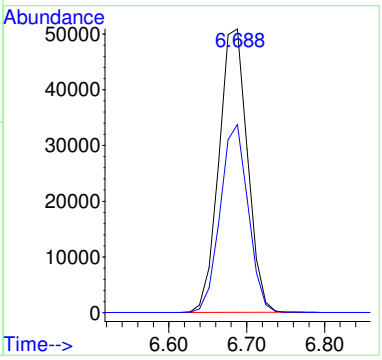


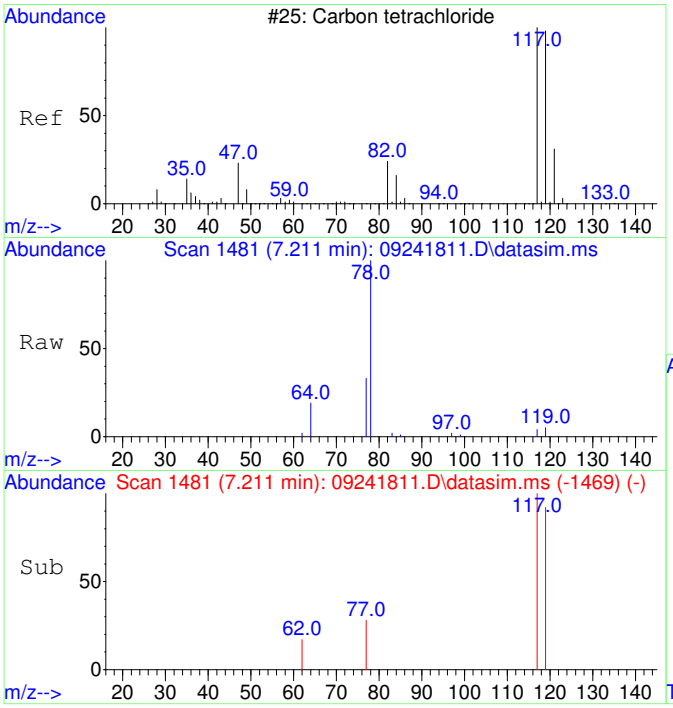


#6
Chloroform
Concen: 13815.38 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 83 Resp: 129539

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.8	94.8

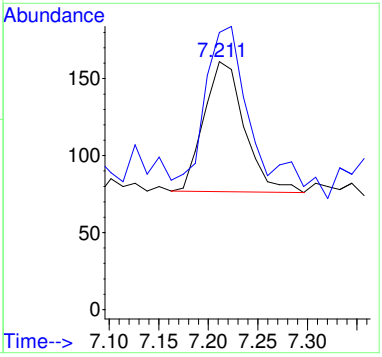


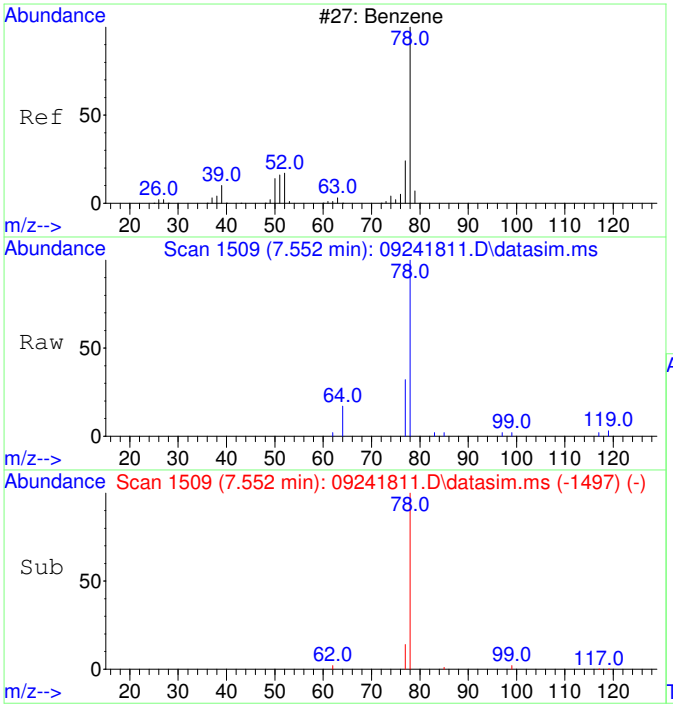


#8
Carbon tetrachloride
Concen: 27.45 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:117 Resp: 240

Ion	Ratio	Lower	Upper
117	100		
119	128.3	65.9	125.9#

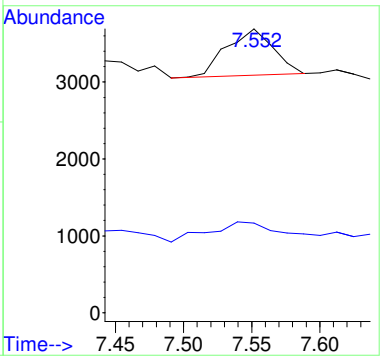


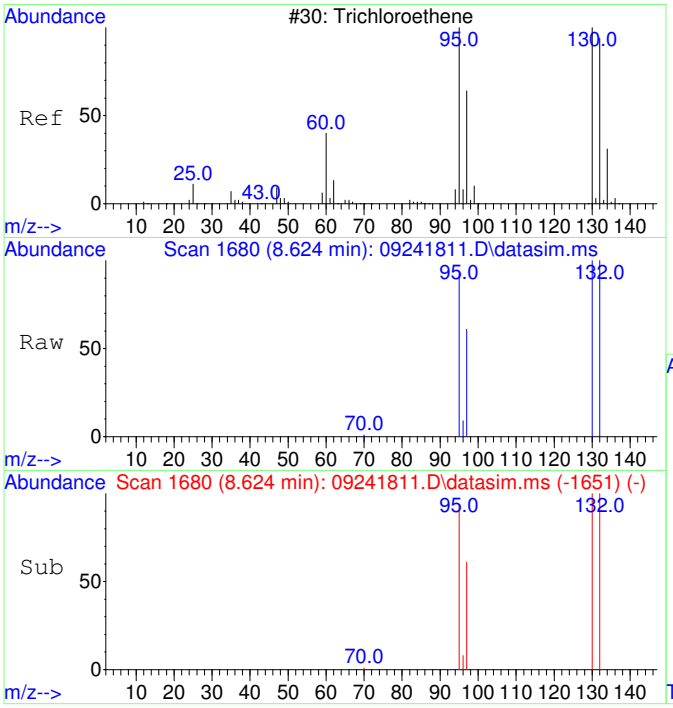


#9
Benzene
Concen: 57.22 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 78 Resp: 1457

Ion	Ratio	Lower	Upper
78	100		
77	68.4	0.0	53.0#

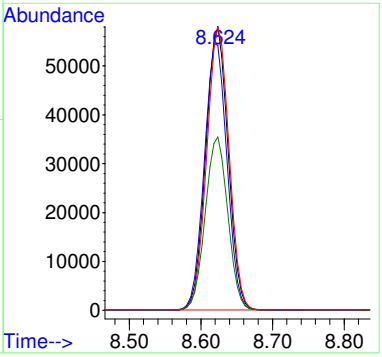


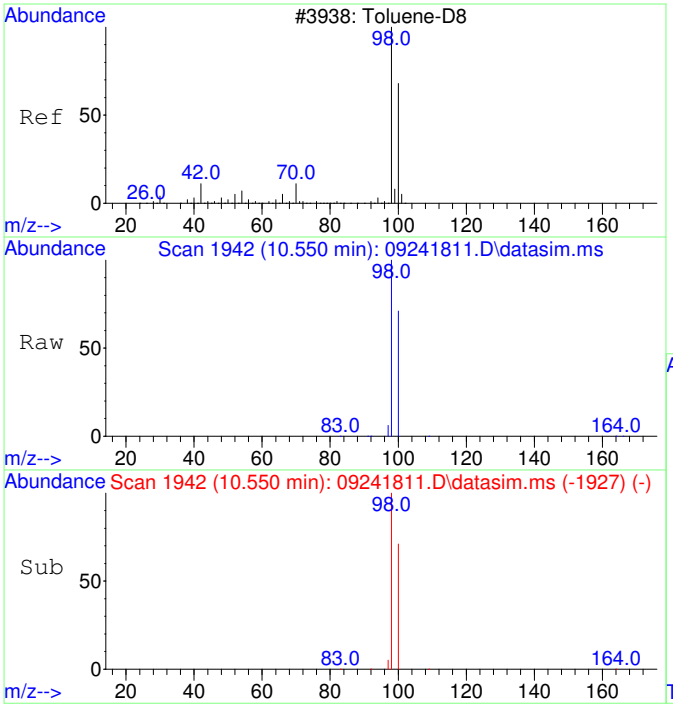


#11
Trichloroethene
Concen: 17943.23 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:130 Resp: 125583

Ion	Ratio	Lower	Upper
130	100		
95	95.5	66.0	126.0
132	99.5	78.8	118.8
97	61.3	41.9	81.9

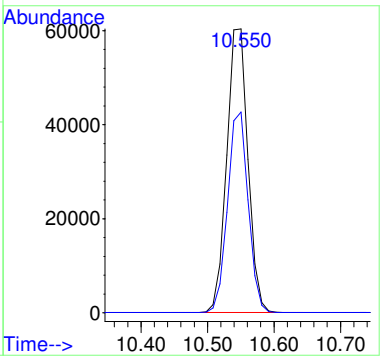


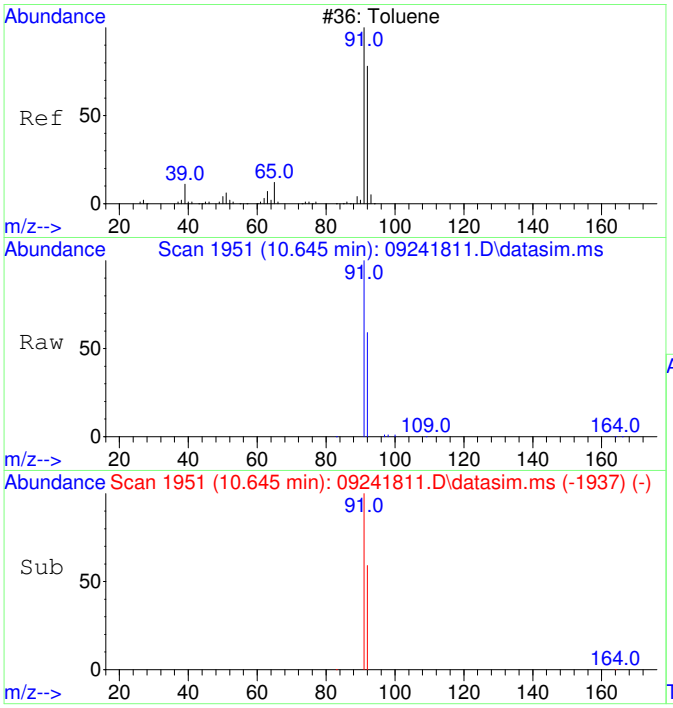


#12
Toluene-d8
Concen: 5169.30 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.010 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 98 Resp: 133171

Ion	Ratio	Lower	Upper
98	100		
100	68.8	38.7	98.7

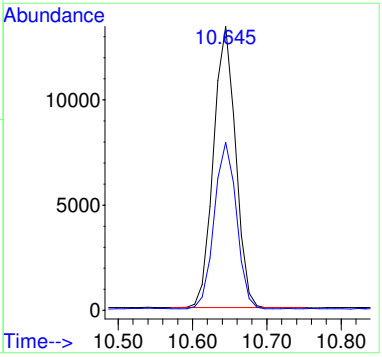


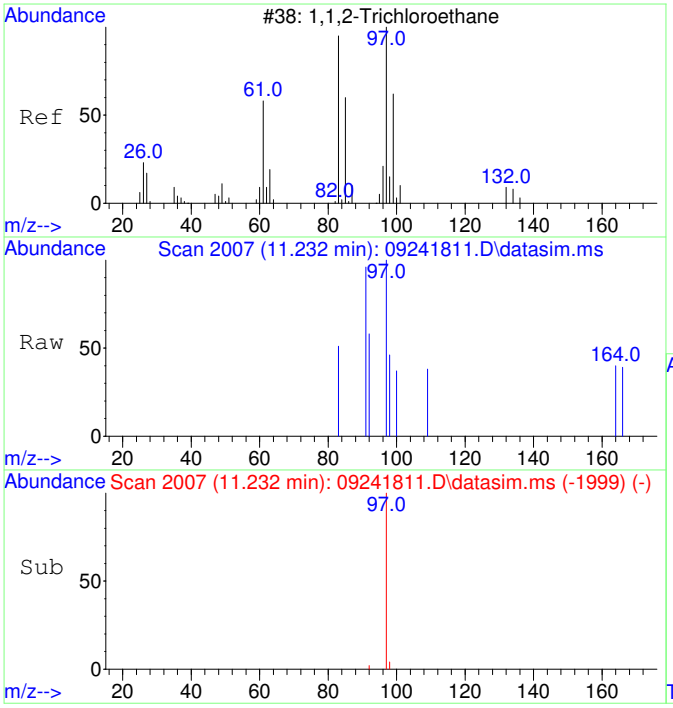


#13
Toluene
Concen: 797.34 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 27541

Ion	Ratio	Lower	Upper
91	100		
92	59.5	30.0	90.0

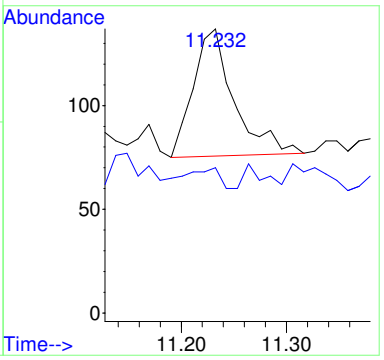


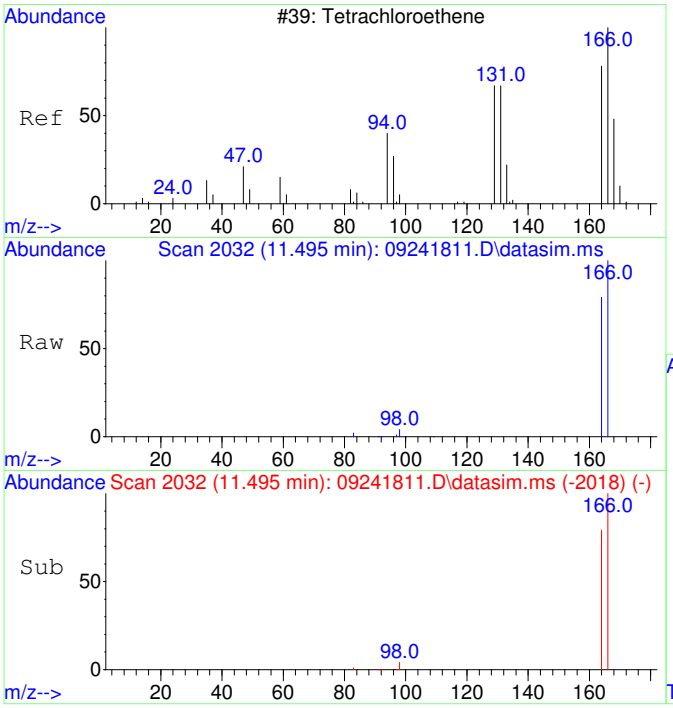


#14
1,1,2-Trichloroethane
Concen: 23.25 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. -0.063 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 97 Resp: 166

Ion	Ratio	Lower	Upper
97	100		
83	12.0	53.4	113.4#

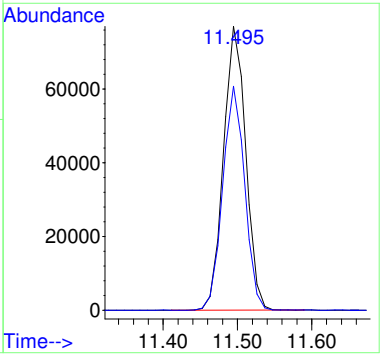


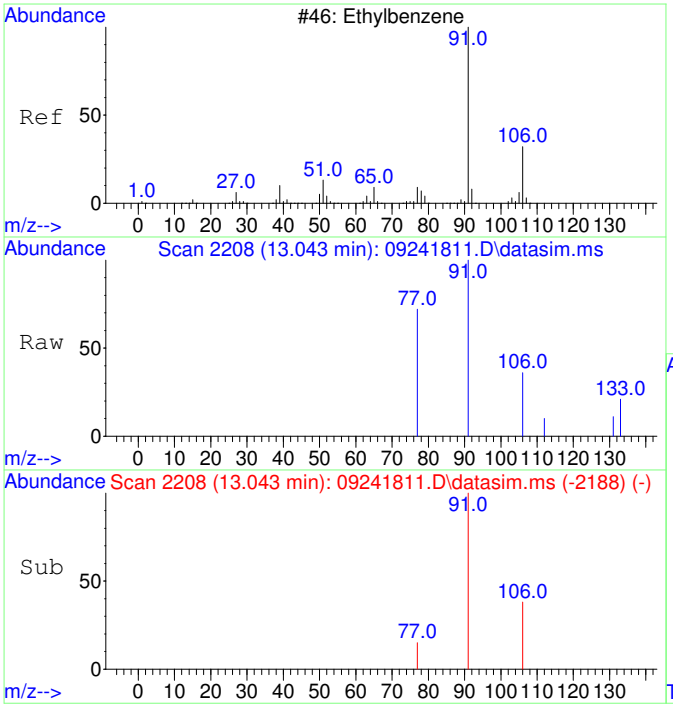


#15
Tetrachloroethene
Concen: 16347.22 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:166 Resp: 159088

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

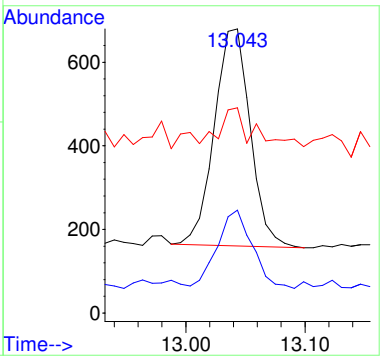


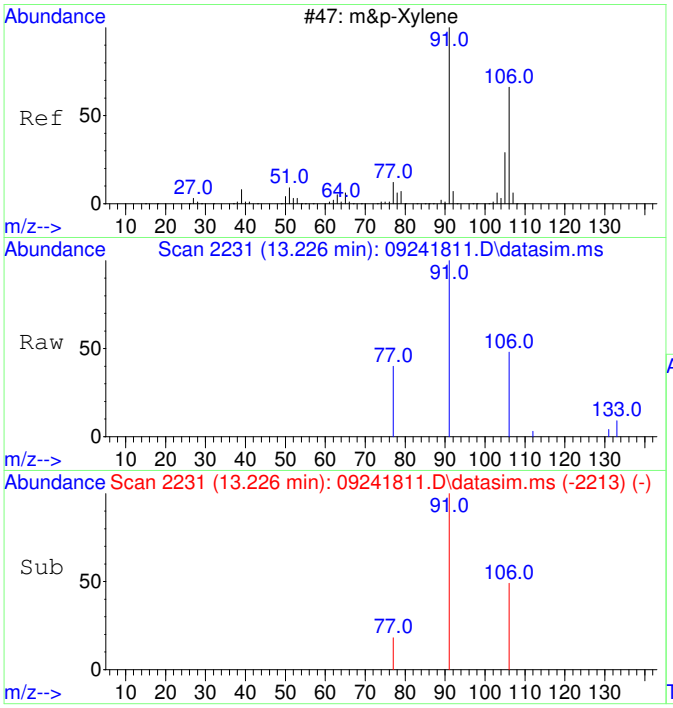


#18
Ethylbenzene
Concen: 26.20 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.008 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 1086

Ion	Ratio	Lower	Upper
91	100		
106	35.2	2.8	62.8
77	27.3	0.0	38.6

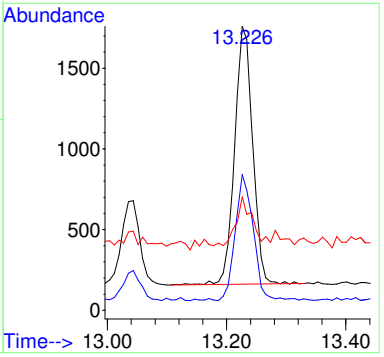


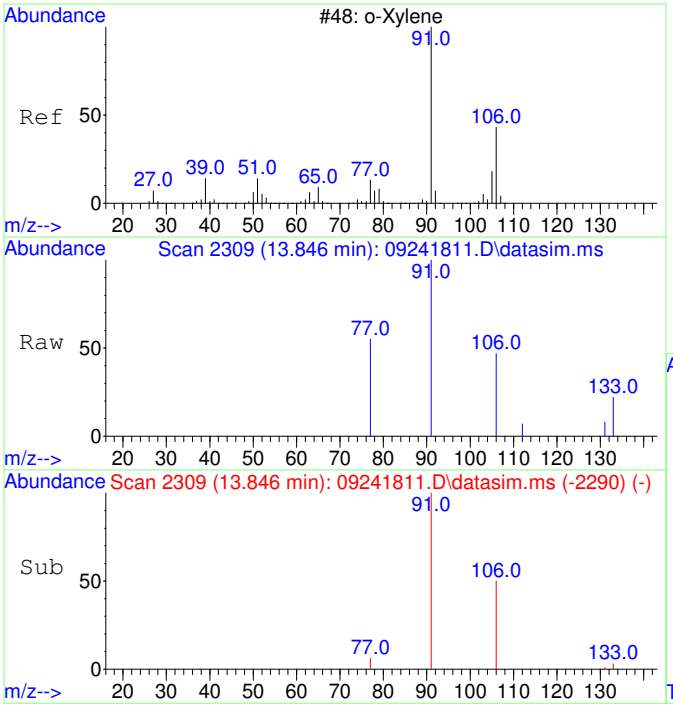


#19
m&p-Xylene
Concen: 105.21 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 3366

Ion	Ratio	Lower	Upper
91	100		
106	49.1	21.2	81.2
77	18.0	0.0	42.9

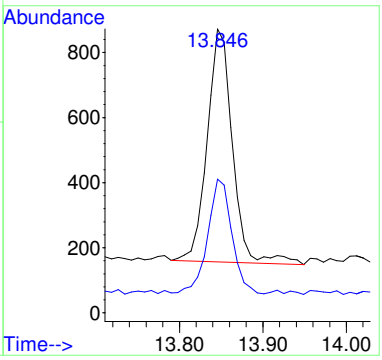


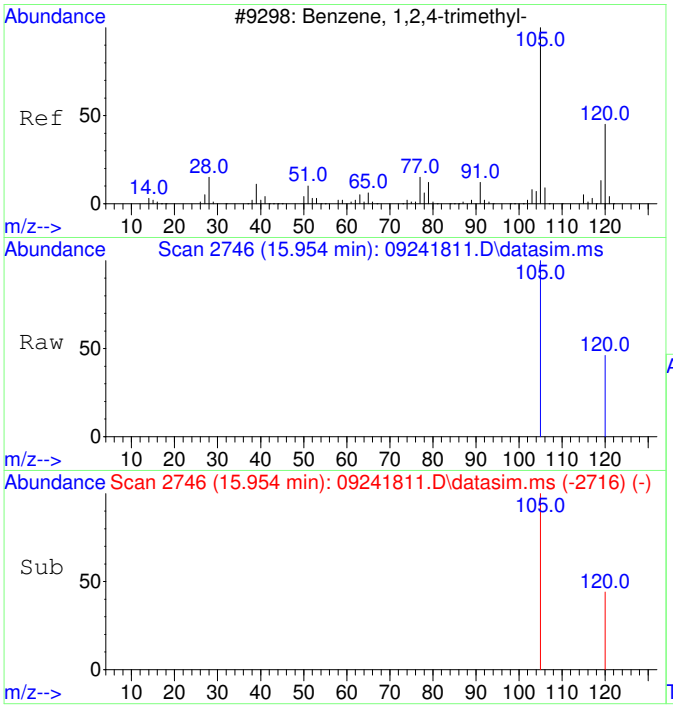


#20
o-Xylene
Concen: 44.60 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 1511

Ion	Ratio	Lower	Upper
91	100		
106	46.4	18.3	78.3

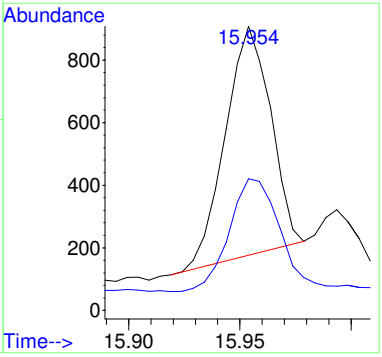


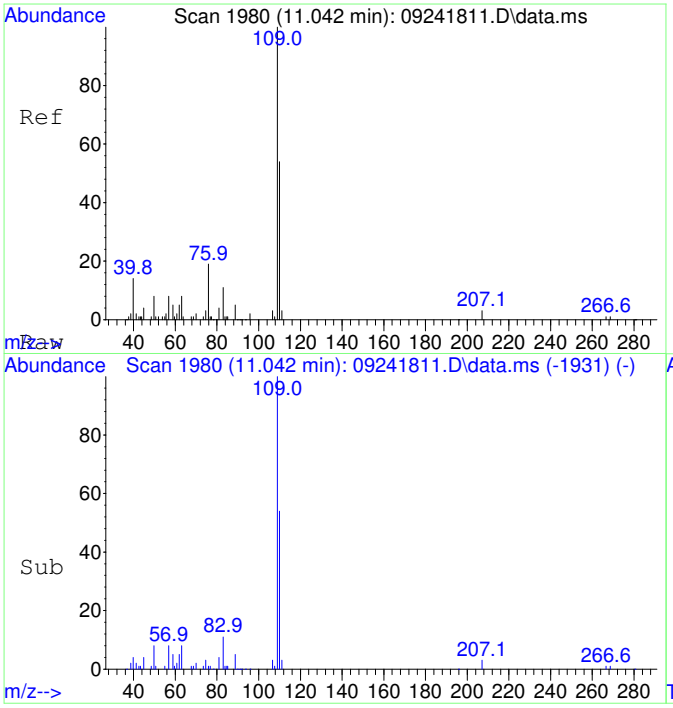


#23
1,2,4-Trimethylbenzene
Concen: 27.51 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:105 Resp: 1055

Ion	Ratio	Lower	Upper
105	100		
120	56.0	15.5	75.5

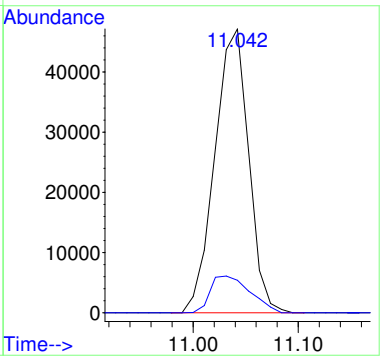


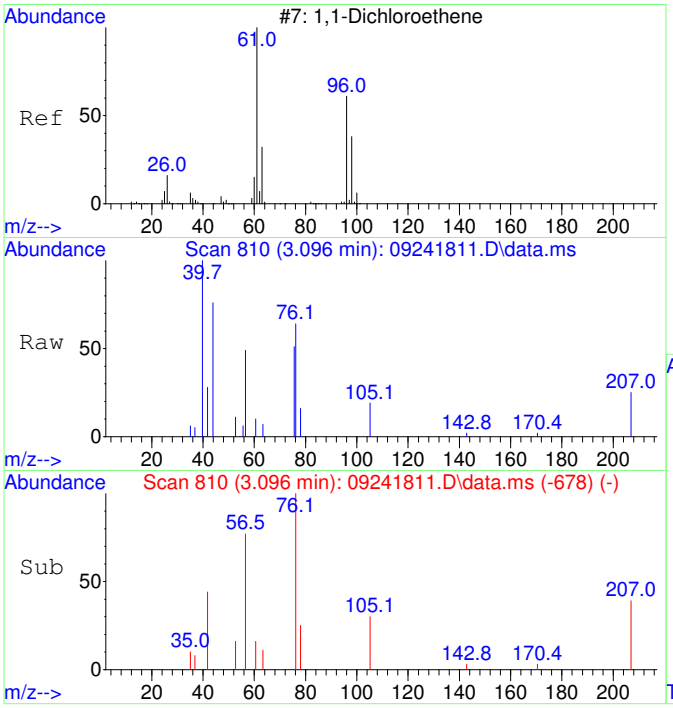


#25
2-Fluorotoluene SCAN
Concen: 5704.52 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.010 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:109 Resp: 105428

Ion	Ratio	Lower	Upper
109	100		
83	15.3	0.0	45.7

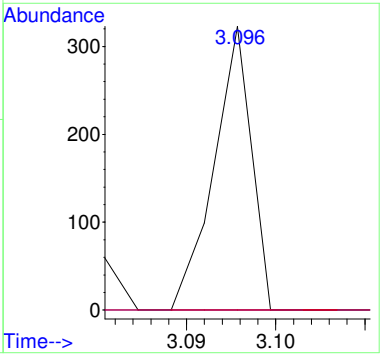


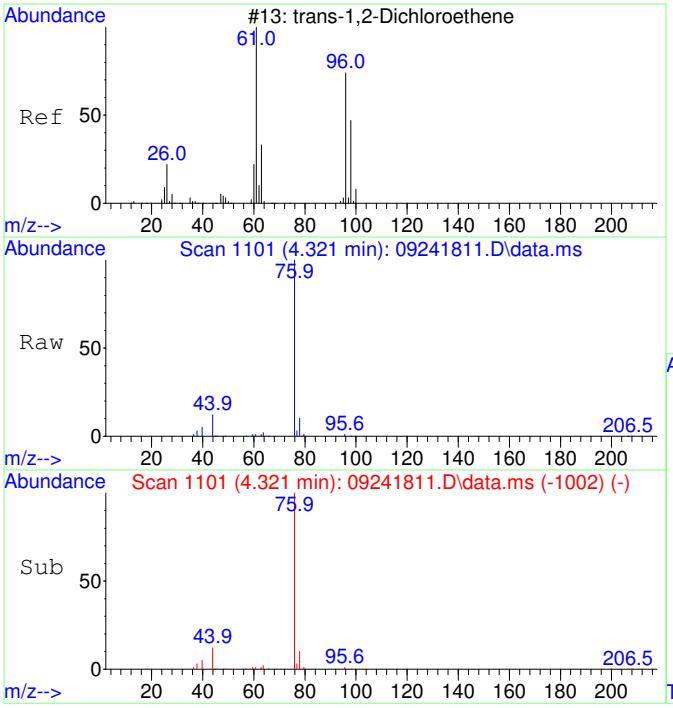


#26
1,1-Dichloroethene SCAN
Concen: 20.38 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.011 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 94

Ion	Ratio	Lower	Upper
61	100		
96	0.0	23.8	83.8#
98	0.0	8.8	68.8#

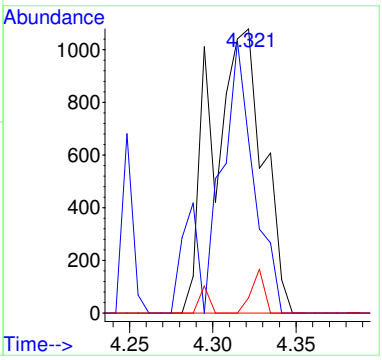


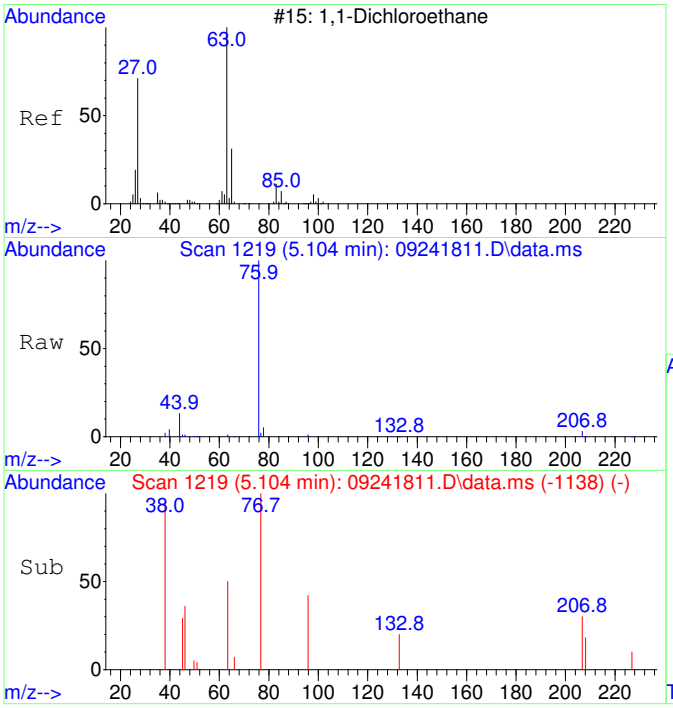


#27
trans-1,2-Dichloroethene SCAN
Concen: 430.81 ug/L
RT: 4.321 min Scan# 1101
Delta R.T. 0.013 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 2313

Ion	Ratio	Lower	Upper
61	100		
96	57.7	37.9	97.9
98	3.9	12.7	72.7#

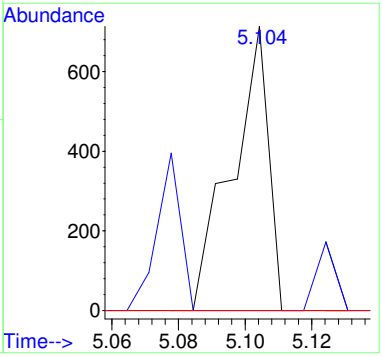


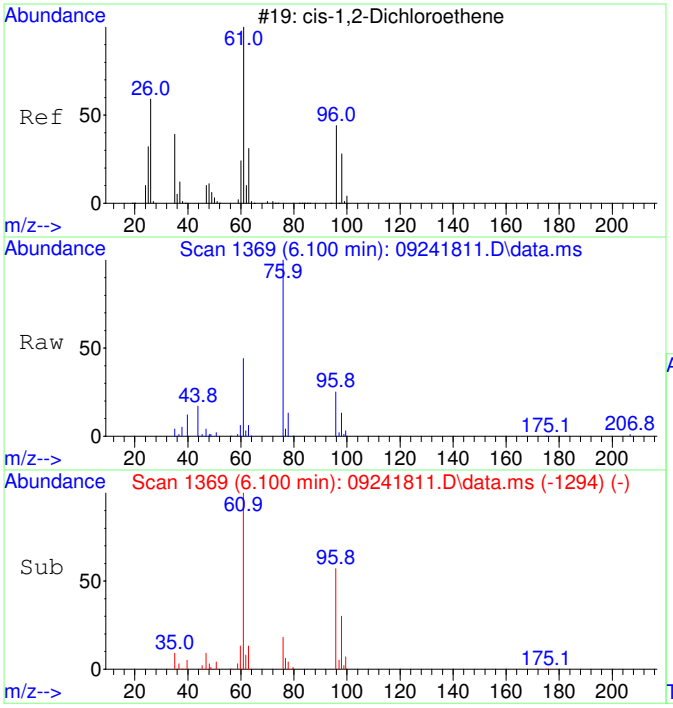


#28
1,1-Dichloroethane SCAN
Concen: 79.35 ug/L
RT: 5.104 min Scan# 1219
Delta R.T. 0.040 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 63 Resp: 542

Ion	Ratio	Lower	Upper
63	100		
65	12.5	7.5	67.5
83	0.0	0.0	34.3

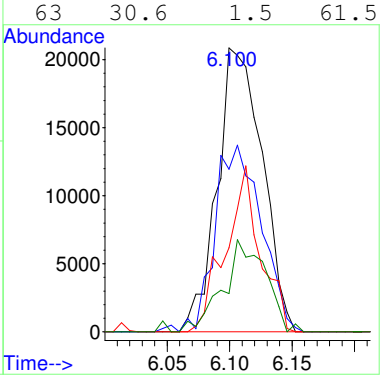


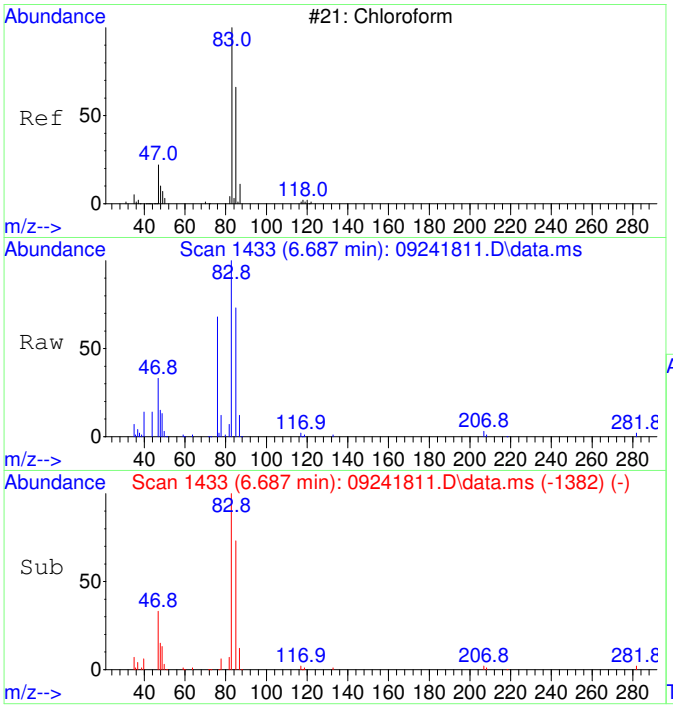


#29
cis-1,2-Dichloroethene SCAN
Concen: 8844.53 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 52246

Ion	Ratio	Lower	Upper
61	100		
96	68.2	28.2	88.2
98	45.1	14.1	74.1
63	30.6	1.5	61.5

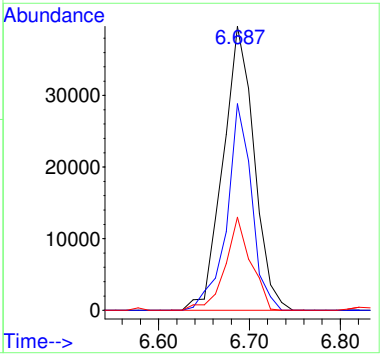


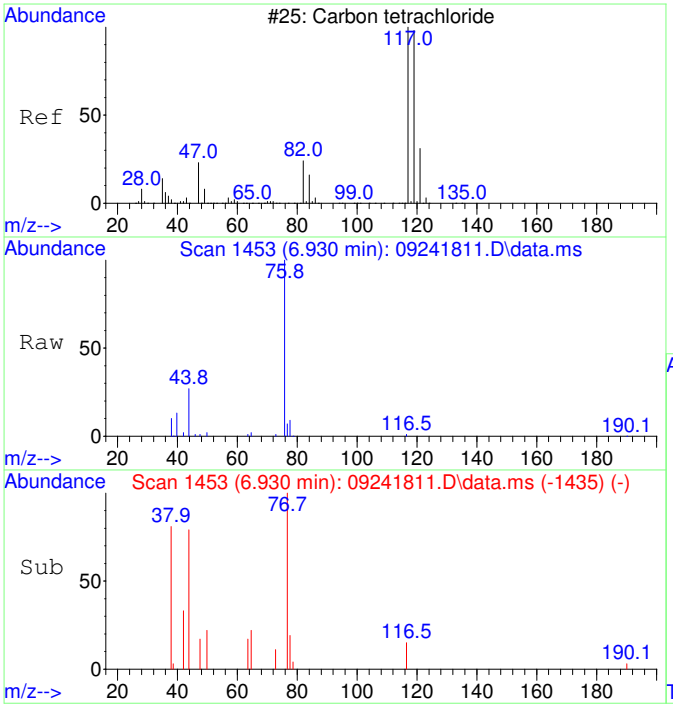


#30
Chloroform SCAN
Concen: 13021.28 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 83 Resp: 94413

Ion	Ratio	Lower	Upper
83	100		
85	58.1	32.6	92.6
47	27.2	0.0	57.9

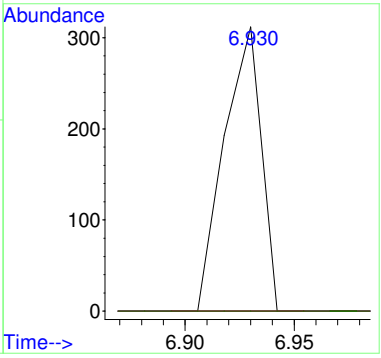


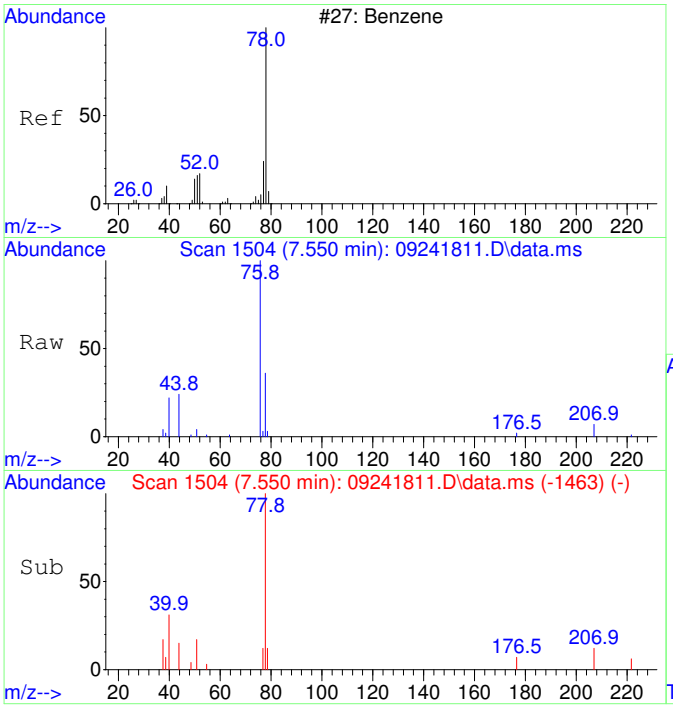


#32
Carbon tetrachloride SCAN
Concen: 58.02 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. -0.280 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:117 Resp: 369

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

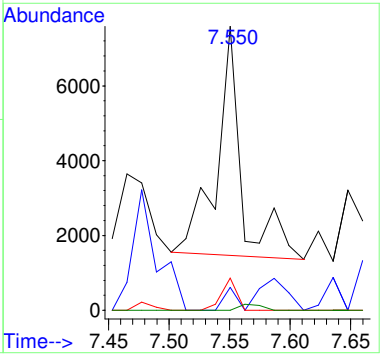


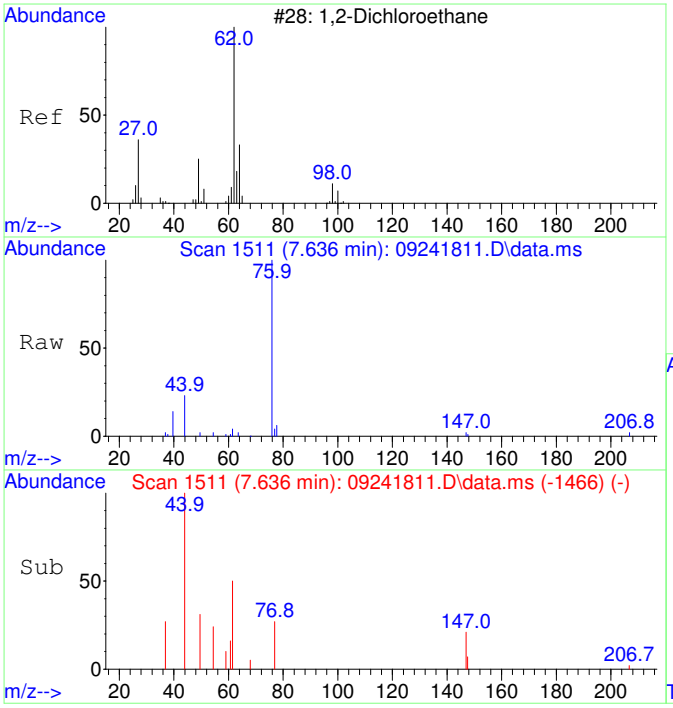


#33
Benzene SCAN
Concen: 449.41 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 78 Resp: 8650

Ion	Ratio	Lower	Upper
78	100		
77	0.0	3.0	63.0#
51	8.6	0.0	56.4
52	2.4	0.0	48.0

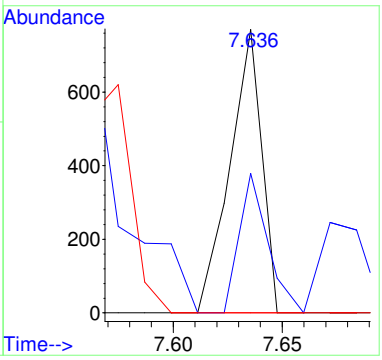


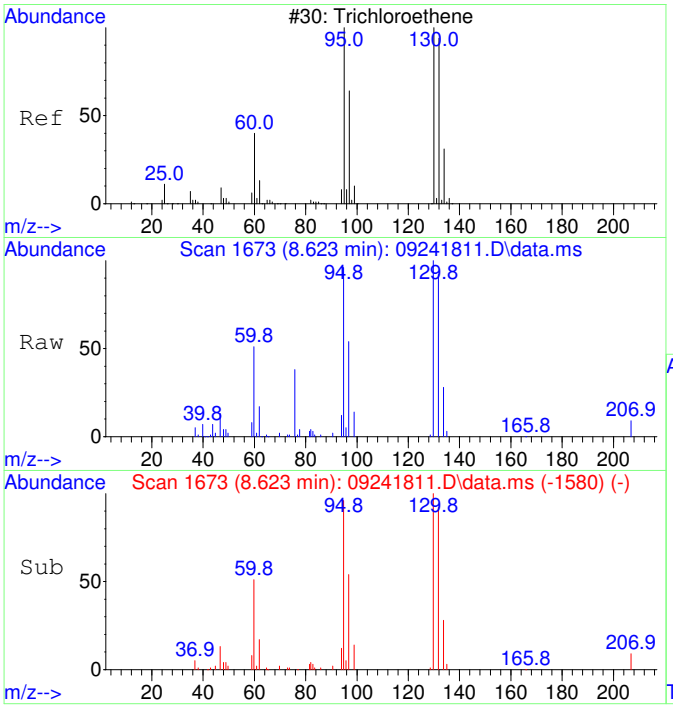


#34
1,2-Dichloroethane SCAN
Concen: 118.83 ug/L
RT: 7.636 min Scan# 1511
Delta R.T. 0.049 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 62 Resp: 780

Ion	Ratio	Lower	Upper
62	100		
64	44.2	1.2	61.2
49	0.0	10.4	70.4#

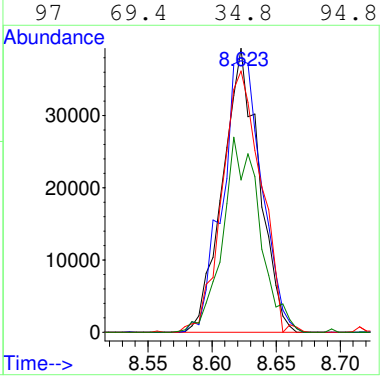


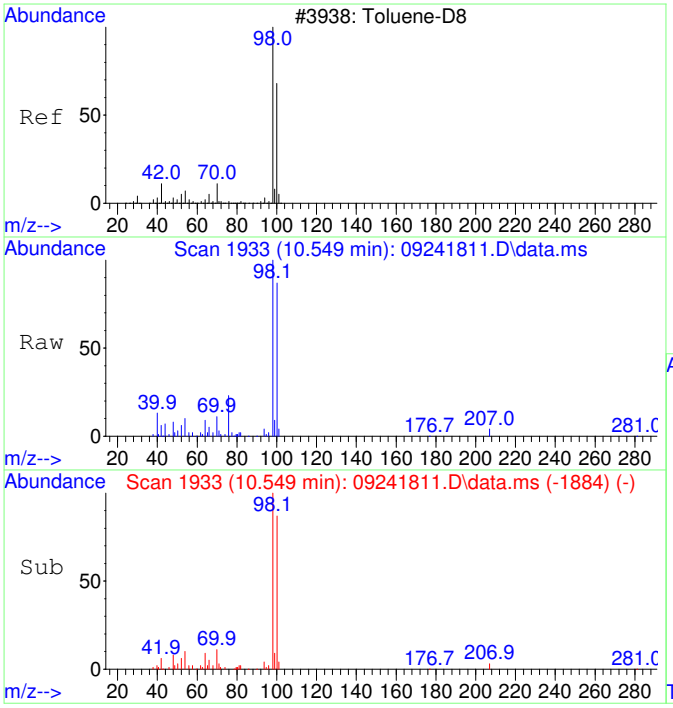


#35
Trichloroethene SCAN
Concen: 16505.87 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. 0.005 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:130 Resp: 77743

Ion	Ratio	Lower	Upper
130	100		
95	104.4	70.5	130.5
132	98.4	63.8	123.8
97	69.4	34.8	94.8

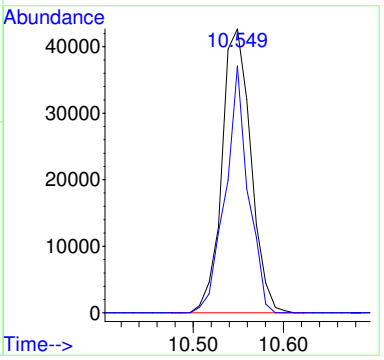


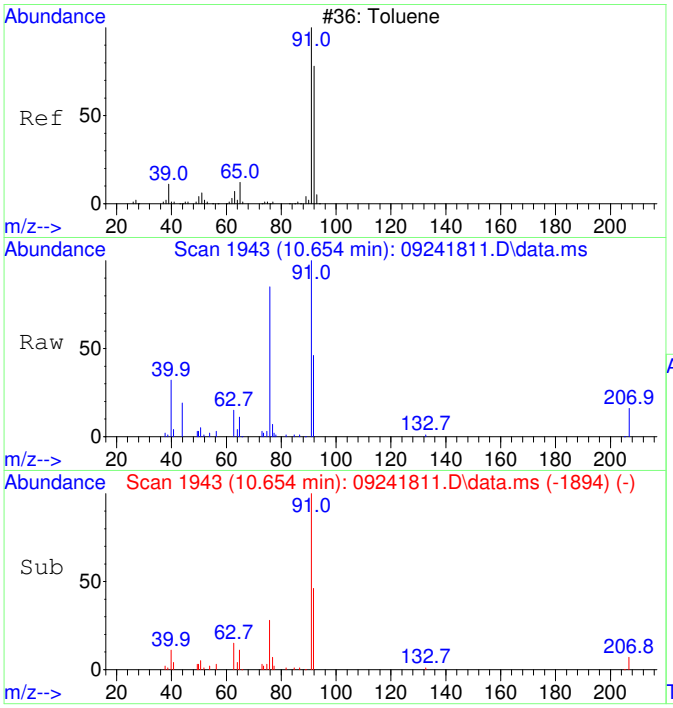


#36
Toluene-d8 SCAN
Concen: 5725.74 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 98 Resp: 95661

Ion	Ratio	Lower	Upper
98	100		
100	68.5	39.5	99.5

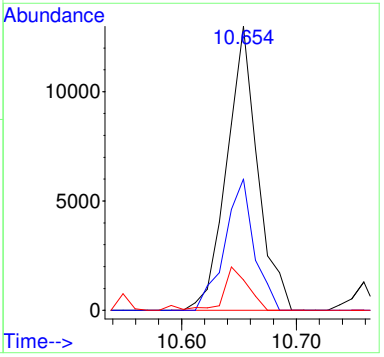


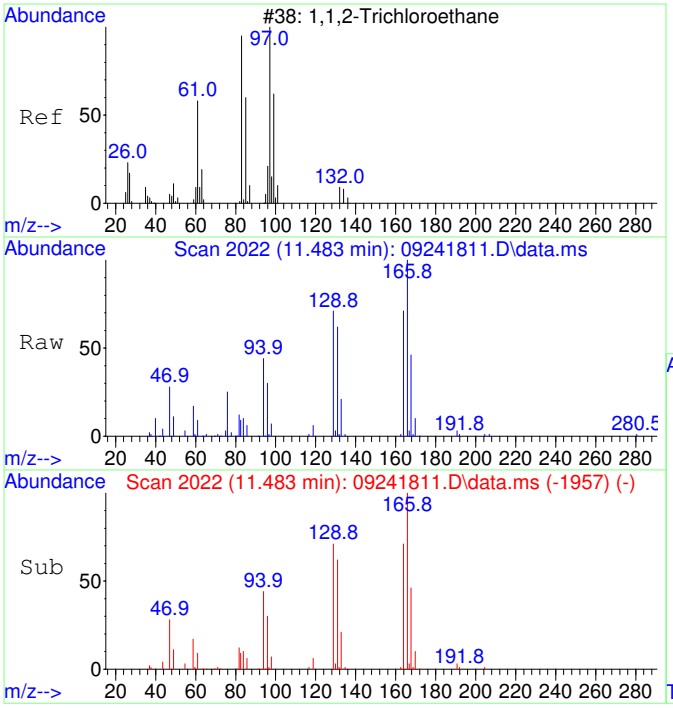


#37
Toluene SCAN
Concen: 1135.19 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 24227

Ion	Ratio	Lower	Upper
91	100		
92	44.1	26.6	86.6
65	10.3	0.0	42.3

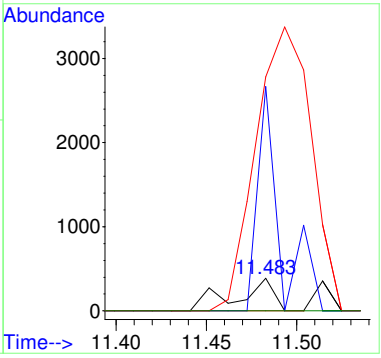


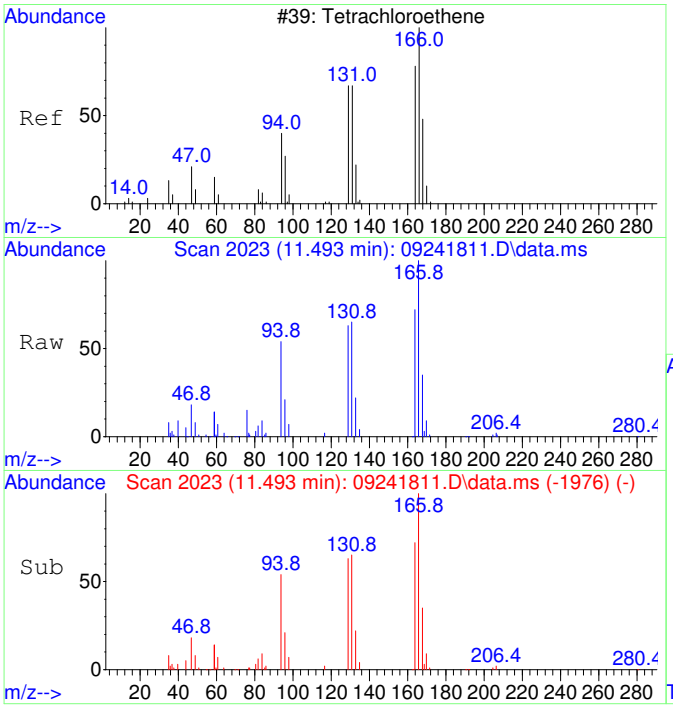


#38
1,1,2-Trichloroethane SCAN
Concen: 136.69 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. 0.178 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 97 Resp: 559

Ion	Ratio	Lower	Upper
97	100		
83	415.0	63.6	123.6#
61	1293.0	44.9	104.9#
99	0.0	37.0	97.0#

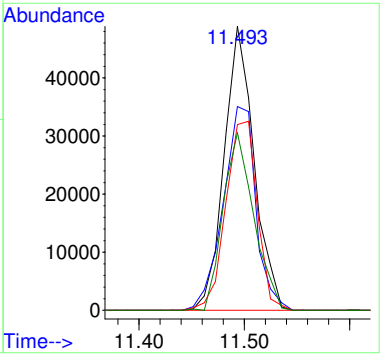


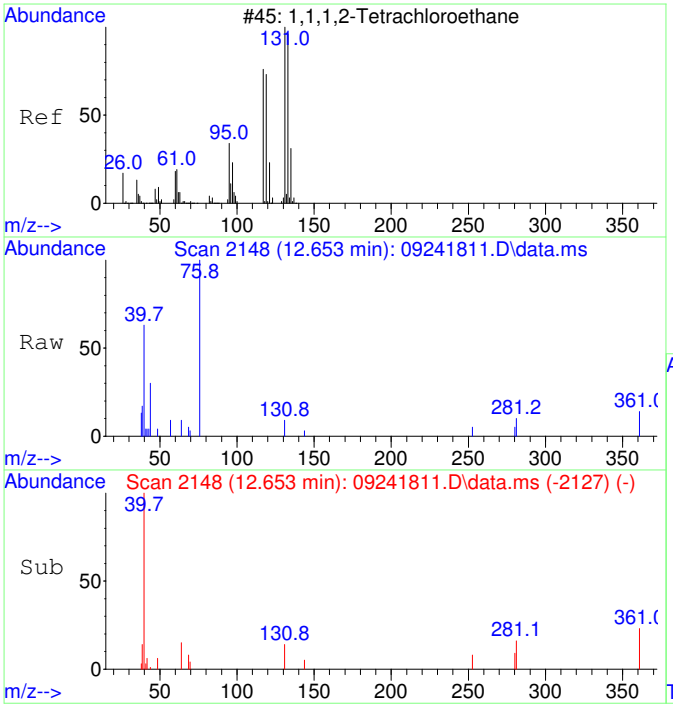


#39
Tetrachloroethene SCAN
Concen: 20644.10 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.011 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:166 Resp: 96680

Ion	Ratio	Lower	Upper
166	100		
164	78.5	43.3	103.3
131	69.9	35.6	95.6
129	64.1	36.6	96.6

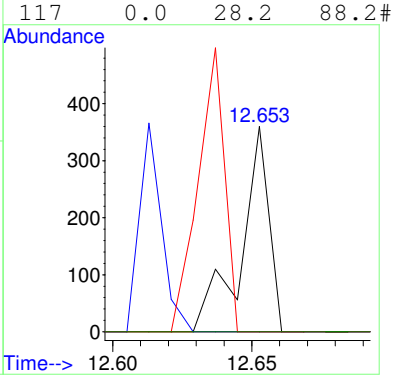


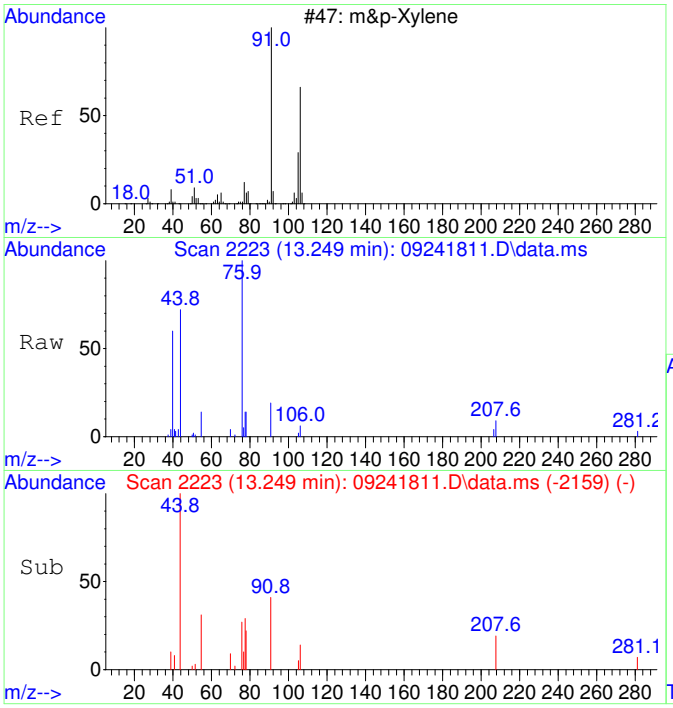


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 54.32 ug/L
RT: 12.653 min Scan# 2148
Delta R.T. -0.334 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:131 Resp: 251

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	131.9	37.9	97.9#
117	0.0	28.2	88.2#

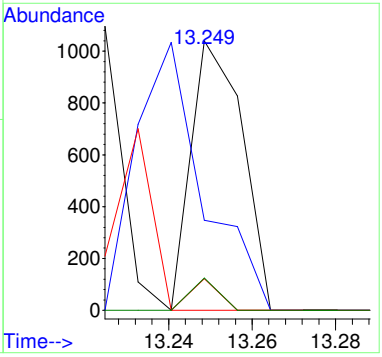


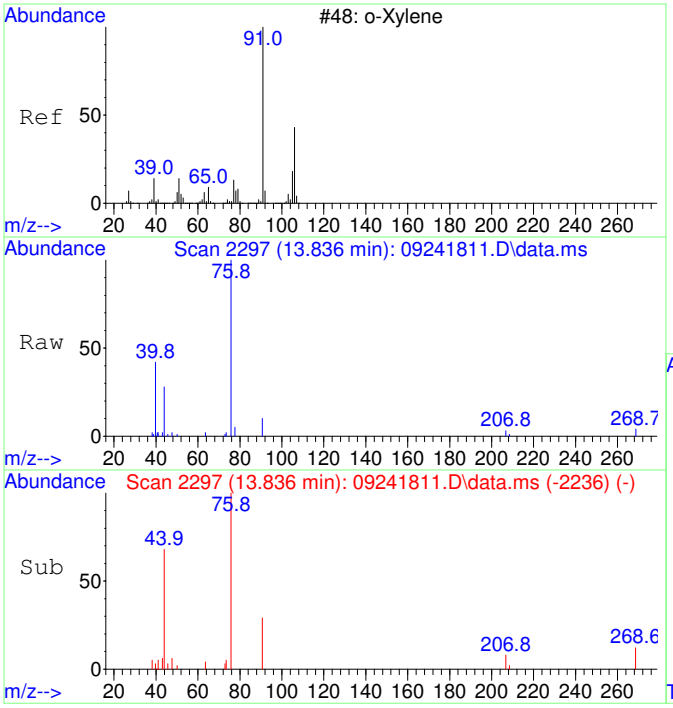


#43
m&p-Xylene SCAN
Concen: 25.85 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.008 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 890

Ion	Ratio	Lower	Upper
91	100		
106	129.8	20.1	80.1#
105	0.0	0.0	51.1
51	6.7	0.0	40.7

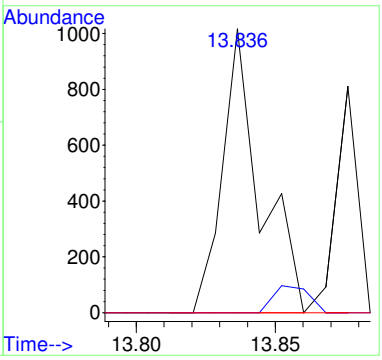


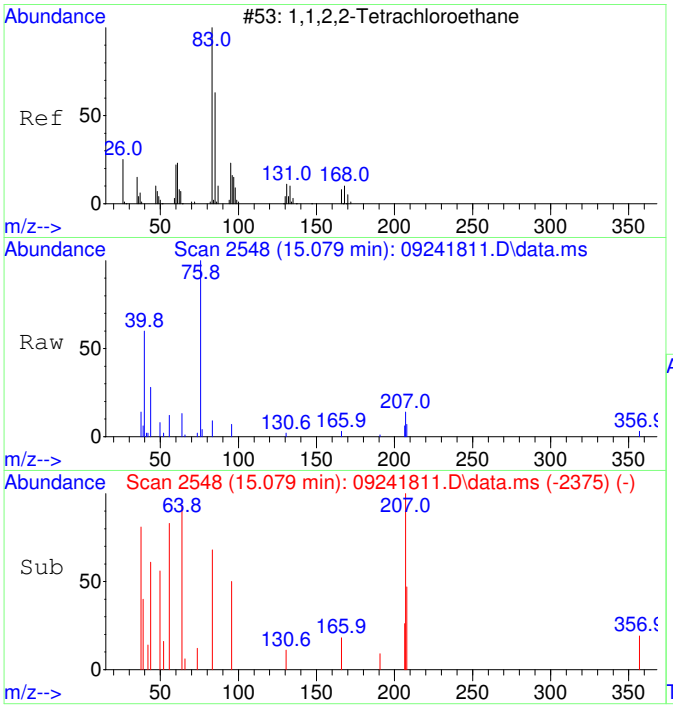


#44
o-Xylene SCAN
Concen: 48.98 ug/L
RT: 13.836 min Scan# 2297
Delta R.T. -0.016 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 960

Ion	Ratio	Lower	Upper
91	100		
106	9.1	21.3	81.3#
105	0.0	0.0	55.2

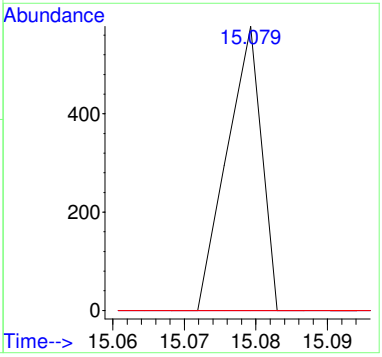




#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 20.89 ug/L
RT: 15.079 min Scan# 2548
Delta R.T. 0.141 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 83 Resp: 194

Ion	Ratio	Lower	Upper
83	100		
85	0.0	31.6	91.6#
95	0.0	0.0	49.0



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241811.D
Acq On : 24 Sep 2018 16:12
InstName : AG5975C
Operator : RH
Sample : 1809026-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

M.I. Performed By:
RH at 3:33 pm, Sep 26, 2018

M.I. Performed By:
KO at 12:04 pm, Sep 27, 2018

Quant Time: Sep 24 17:19:38 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

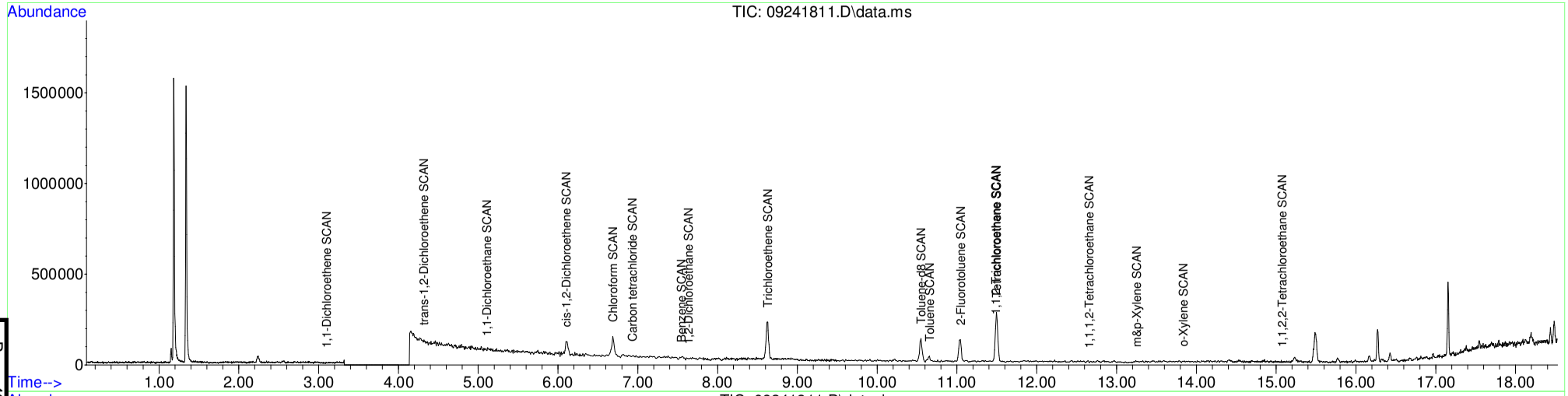
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	158603	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	133171	5169.30 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.39%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	395m	59.43 ug/L	
3] trans-1,2-Dichloroethene	4.309	61	4279	603.35 ug/L	98
5] cis-1,2-Dichloroethene	6.107	61	72368	8310.50 ug/L	100
6] Chloroform	6.688	83	129539	13815.38 ug/L	100
8] Carbon tetrachloride	7.211	117	240	27.45 ug/L #	67
9] Benzene	7.552	78	1457	57.22 ug/L #	6
11] Trichloroethene	8.624	130	125583	17943.23 ug/L	99
13] Toluene	10.645	91	27541	797.34 ug/L	99
14] 1,1,2-Trichloroethane	11.232	97	166	23.25 ug/L #	21
15] Tetrachloroethene	11.495	166	159088	16347.22 ug/L	100
18] Ethylbenzene	13.043	91	1086	26.20 ug/L	86
19] m&p-Xylene	13.226	91	3366	105.21 ug/L	95
20] o-Xylene	13.846	91	1511	44.60 ug/L	97
23] 1,2,4-Trimethylbenzene	15.954	105	1055	27.51 ug/L	84
25) 2-Fluorotoluene SCAN	11.042	109	105428	5704.52 ug/L	99
26) 1,1-Dichloroethene SCAN	3.096	61	94	20.38 ug/L #	30
27) trans-1,2-Dichloroethe...	4.321	61	2313	430.81 ug/L #	69
28) 1,1-Dichloroethane SCAN	5.104	63	542	79.35 ug/L #	61
29) cis-1,2-Dichloroethene...	6.100	61	52246	8844.53 ug/L	93
30) Chloroform SCAN	6.687	83	94413	13021.28 ug/L	96
32) Carbon tetrachloride SCAN	6.930	117	369	58.02 ug/L #	13
33) Benzene SCAN	7.550	78	8650	449.41 ug/L #	55
34) 1,2-Dichloroethane SCAN	7.636	62	780	118.83 ug/L #	53
35) Trichloroethene SCAN	8.623	130	77743	16505.87 ug/L	95
36) Toluene-d8 SCAN	10.549	98	95661	5725.74 ug/L	99
37) Toluene SCAN	10.654	91	24227	1135.19 ug/L	85
38) 1,1,2-Trichloroethane ...	11.483	97	559	136.69 ug/L #	1
39) Tetrachloroethene SCAN	11.493	166	96680	20644.10 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.653	131	251	54.32 ug/L #	15
43) m&p-Xylene SCAN	13.249	91	890	25.85 ug/L #	16
44) o-Xylene SCAN	13.836	91	960	48.98 ug/L #	43
45) 1,1,2,2-Tetrachloroeth...	15.079	83	194	20.89 ug/L #	29

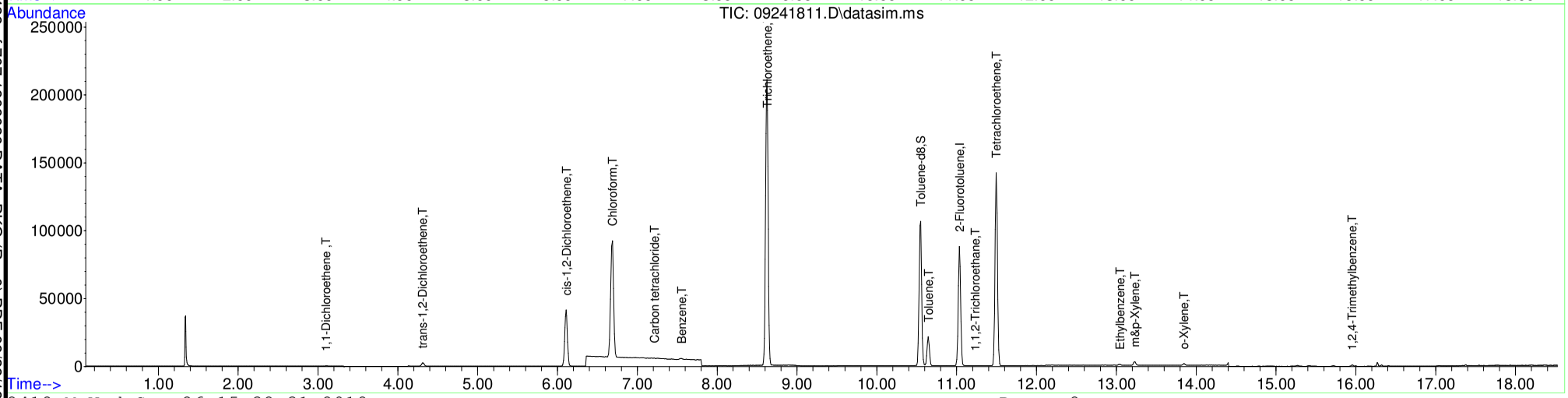
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241811.D
Acq On : 24 Sep 2018 16:12
InstName : AG5975C
Operator : RH
Sample : 1809026-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 17:19:38 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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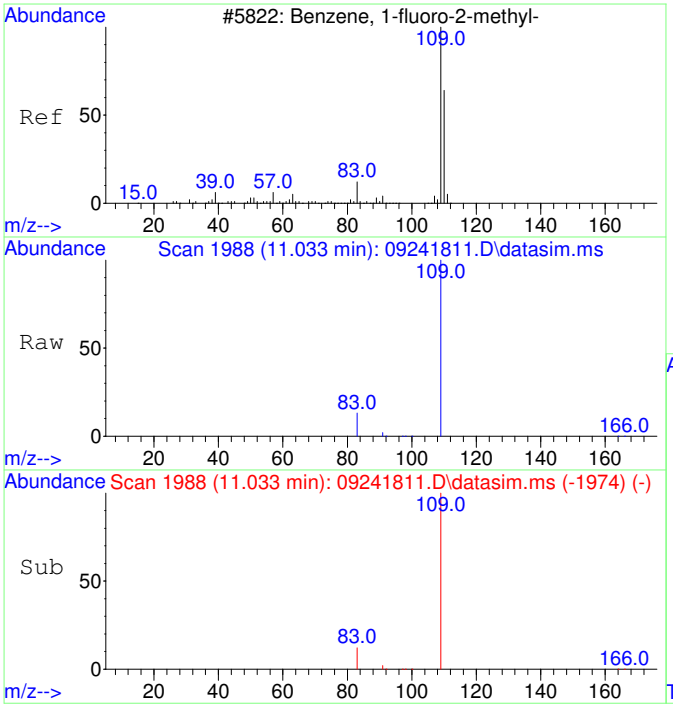
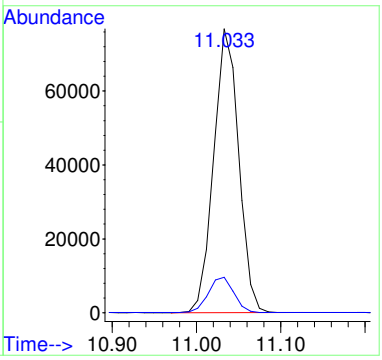
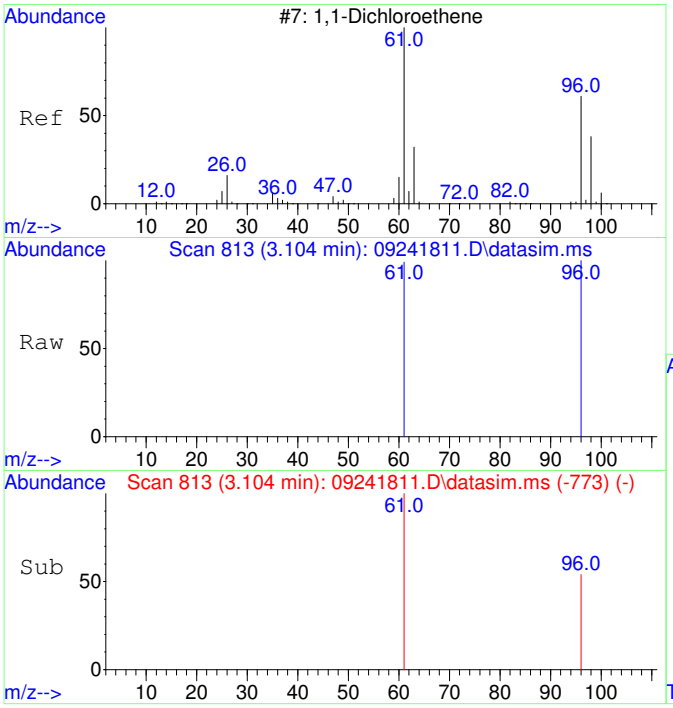


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:109 Resp: 158603

Ion	Ratio	Lower	Upper
109	100		
83	12.8	0.0	44.7

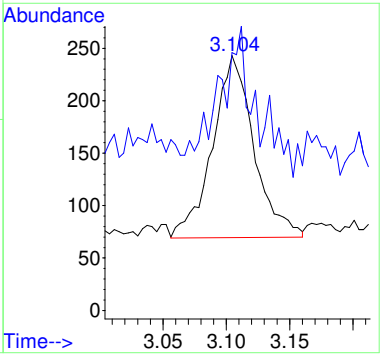


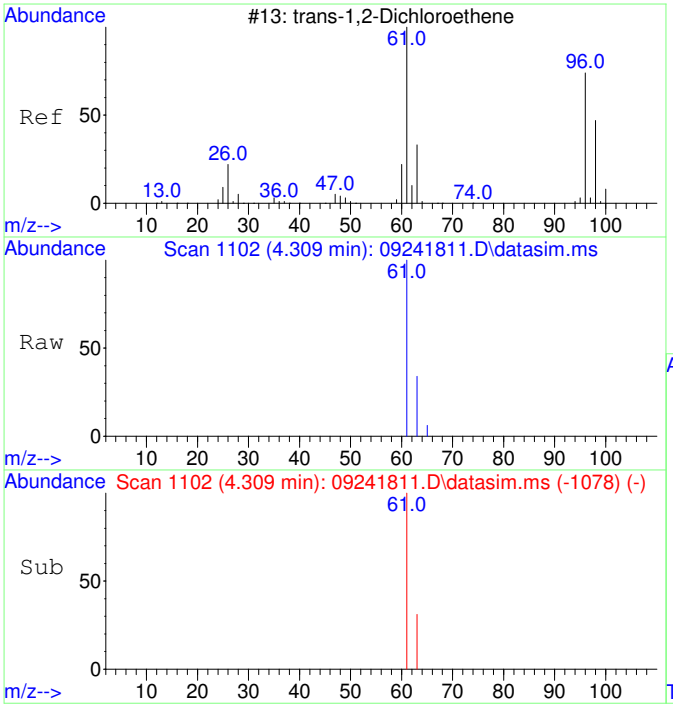


#2
1,1-Dichloroethene
Concen: 59.43 ug/L m
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 395

Ion	Ratio	Lower	Upper
61	100		
96	104.8	28.7	88.7#

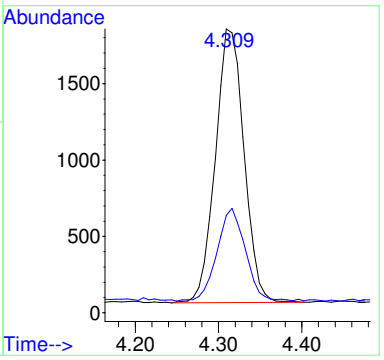


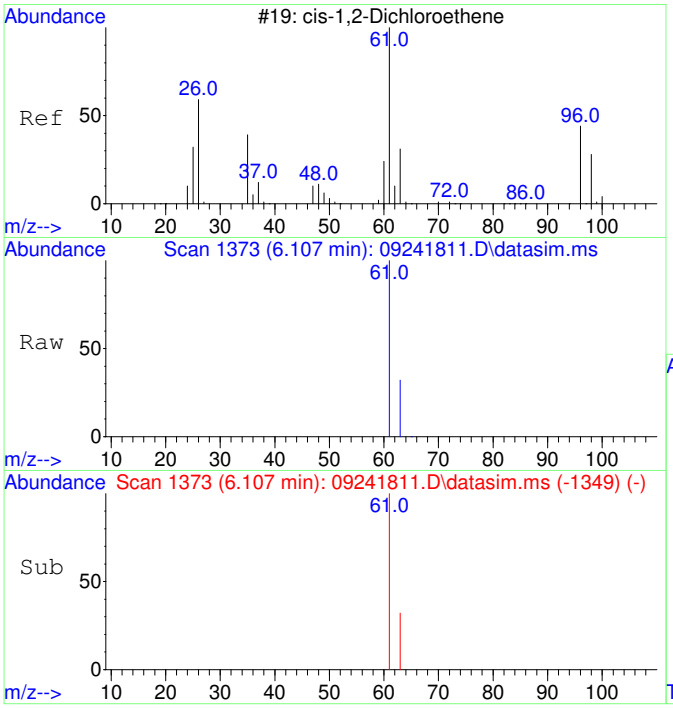


#3
trans-1,2-Dichloroethene
Concen: 603.35 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 4279

Ion	Ratio	Lower	Upper
61	100		
63	33.1	2.0	62.0

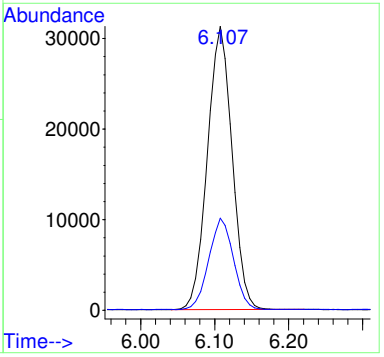


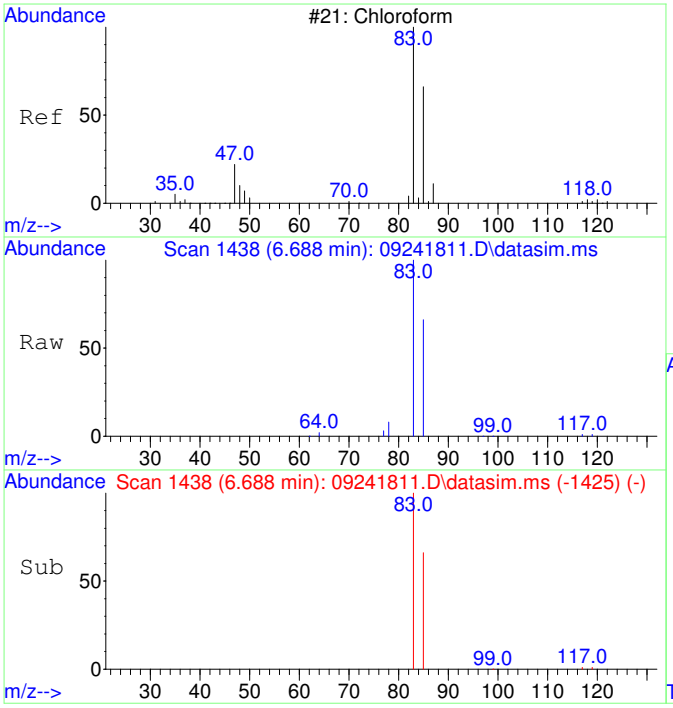


#5
cis-1,2-Dichloroethene
Concen: 8310.50 ug/L
RT: 6.107 min Scan# 1373
Delta R.T. 0.007 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 72368

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.2	62.2

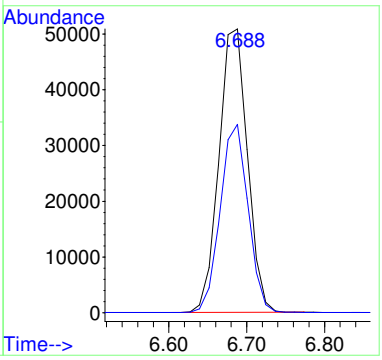


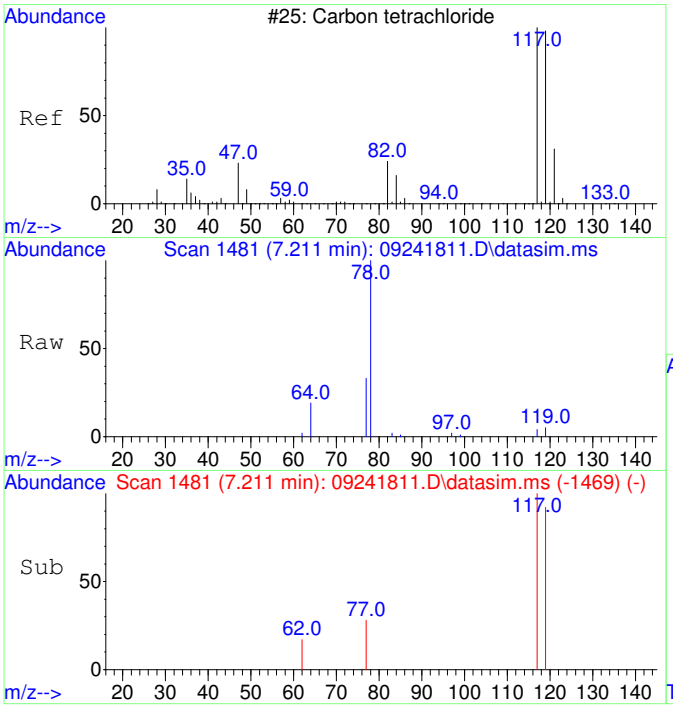


#6
Chloroform
Concen: 13815.38 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 83 Resp: 129539

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.8	94.8

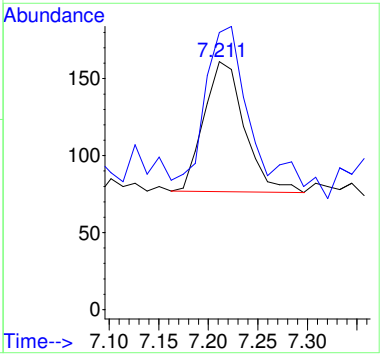


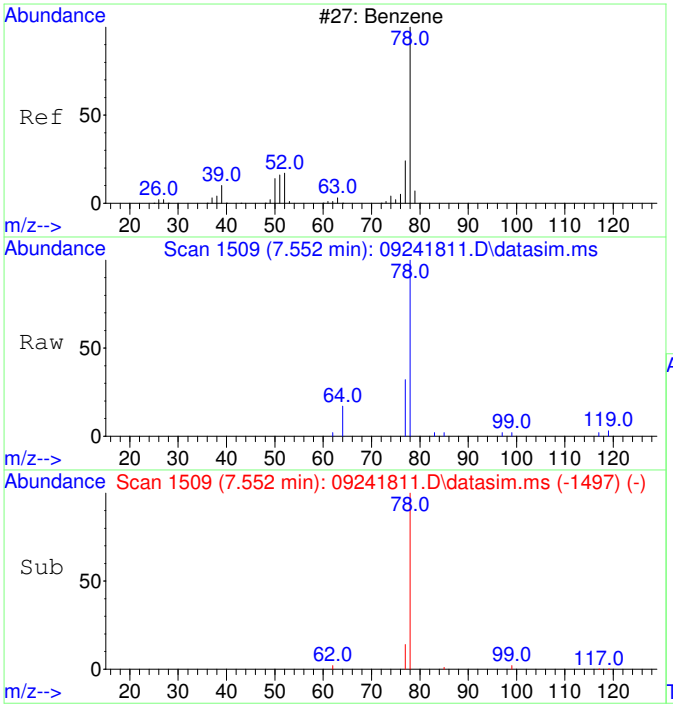


#8
Carbon tetrachloride
Concen: 27.45 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:117 Resp: 240

Ion	Ratio	Lower	Upper
117	100		
119	128.3	65.9	125.9#

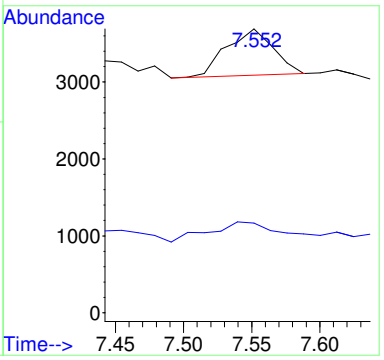


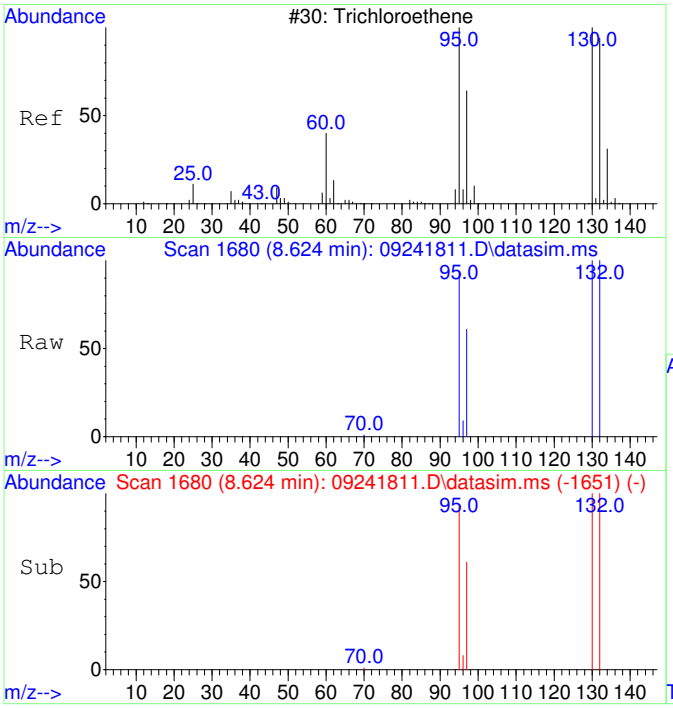


#9
Benzene
Concen: 57.22 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 78 Resp: 1457

Ion	Ratio	Lower	Upper
78	100		
77	68.4	0.0	53.0#

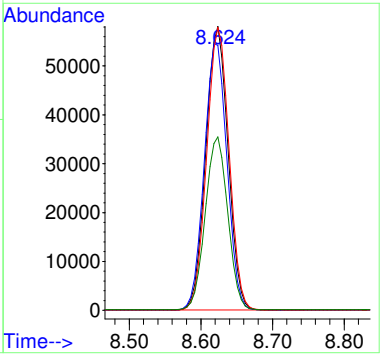


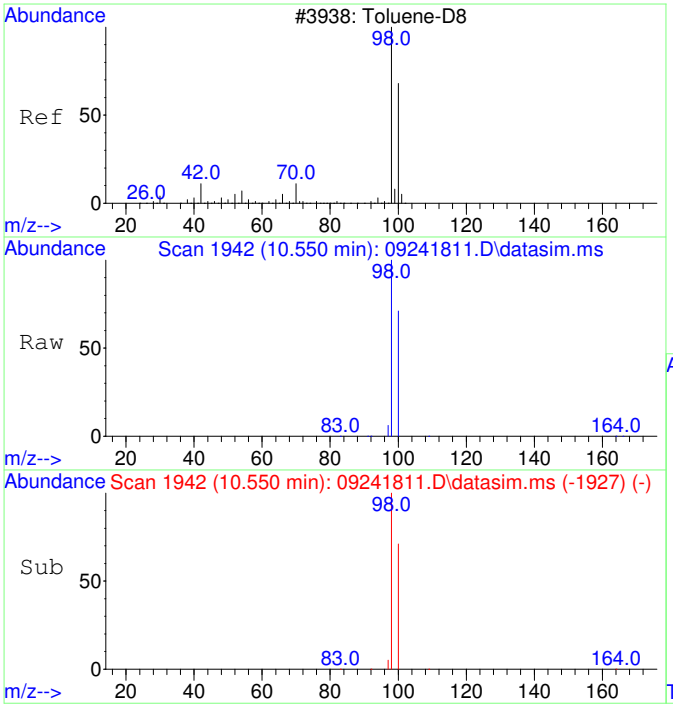


#11
Trichloroethene
Concen: 17943.23 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:130 Resp: 125583

Ion	Ratio	Lower	Upper
130	100		
95	95.5	66.0	126.0
132	99.5	78.8	118.8
97	61.3	41.9	81.9

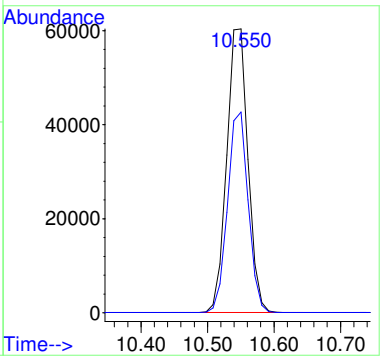


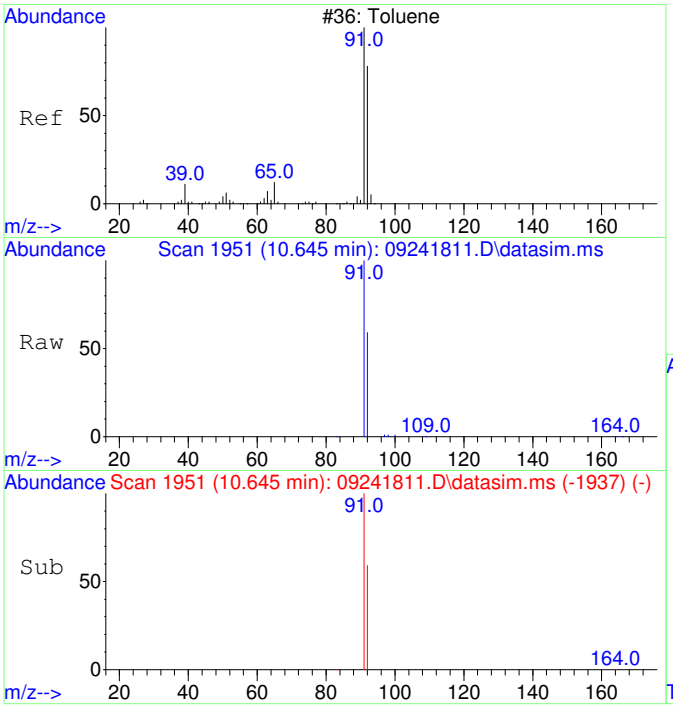


#12
Toluene-d8
Concen: 5169.30 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.010 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 98 Resp: 133171

Ion	Ratio	Lower	Upper
98	100		
100	68.8	38.7	98.7

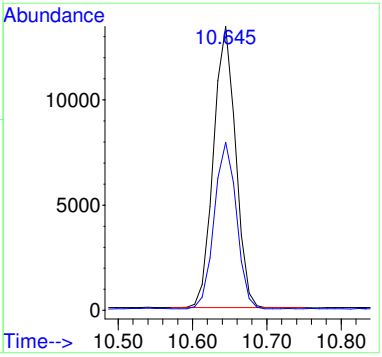


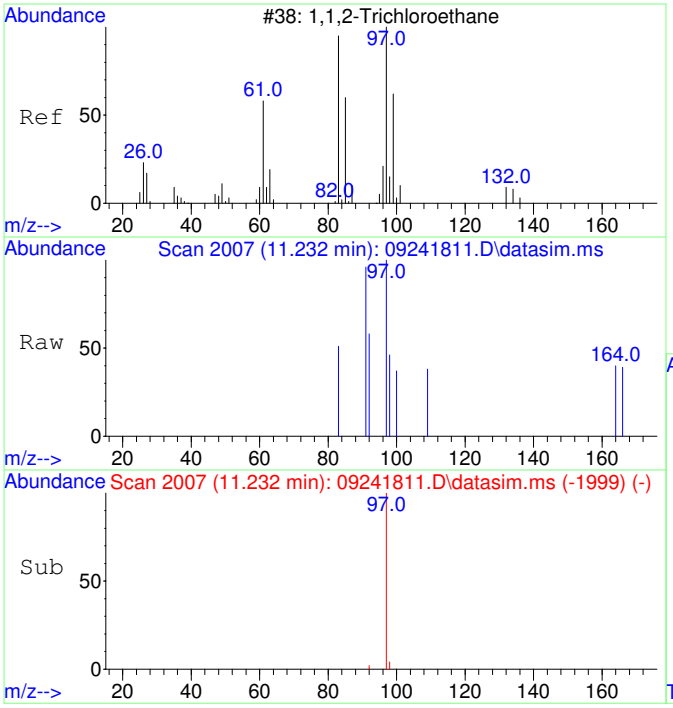


#13
Toluene
Concen: 797.34 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 27541

Ion	Ratio	Lower	Upper
91	100		
92	59.5	30.0	90.0

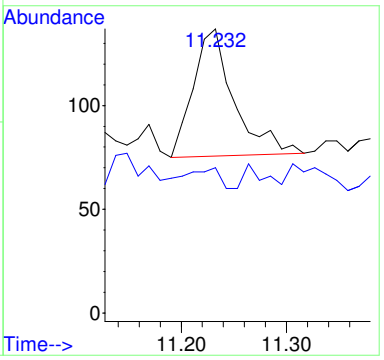


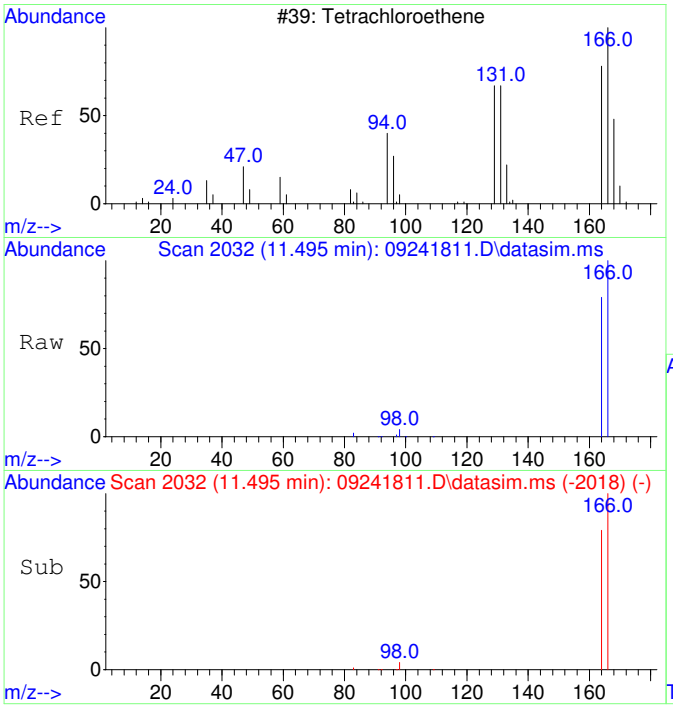


#14
1,1,2-Trichloroethane
Concen: 23.25 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. -0.063 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 97 Resp: 166

Ion	Ratio	Lower	Upper
97	100		
83	12.0	53.4	113.4#

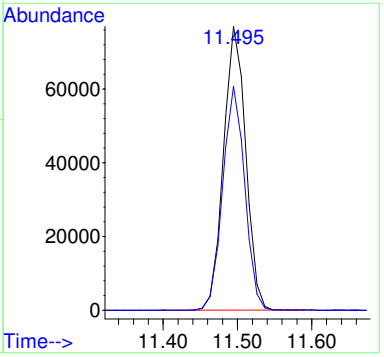


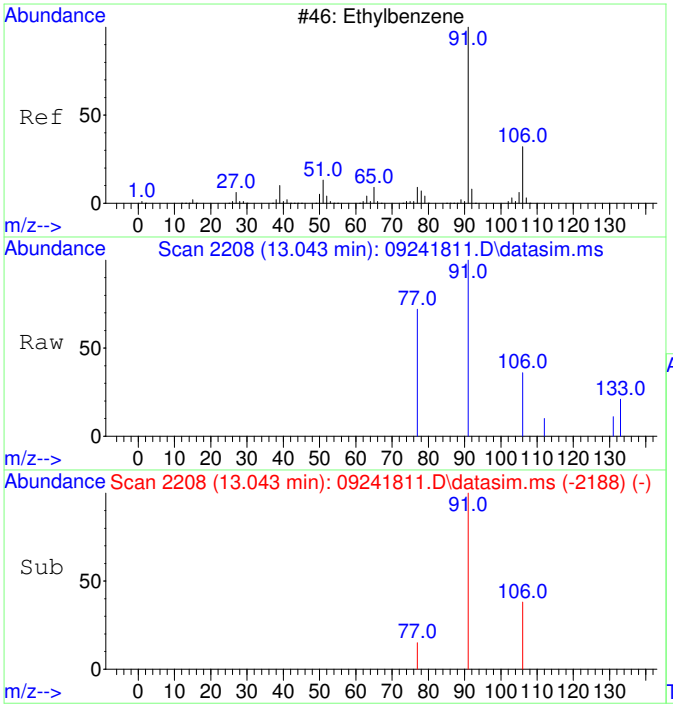


#15
Tetrachloroethene
Concen: 16347.22 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:166 Resp: 159088

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

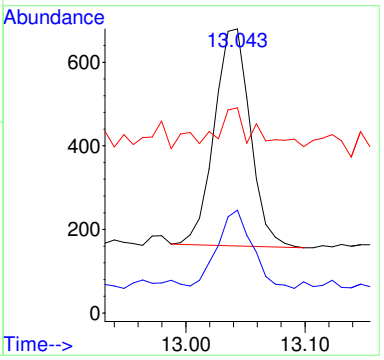


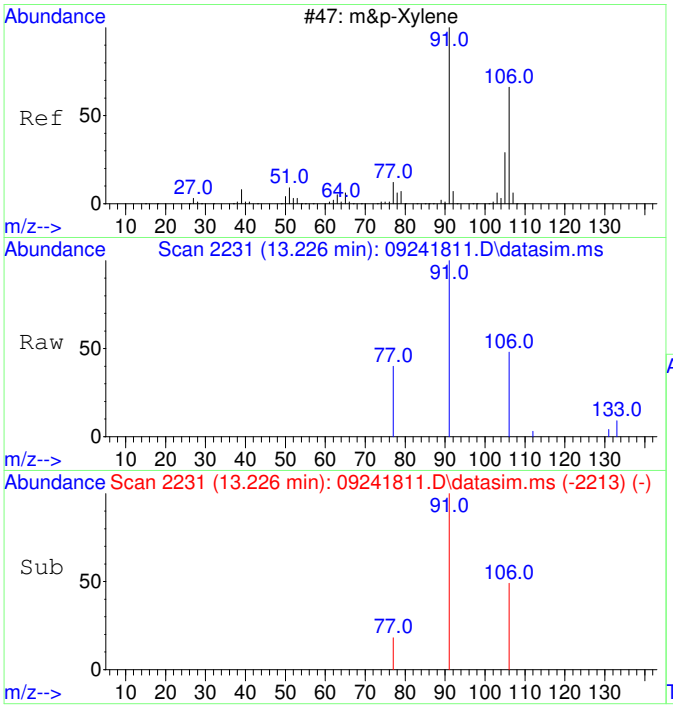


#18
Ethylbenzene
Concen: 26.20 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.008 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 1086

Ion	Ratio	Lower	Upper
91	100		
106	35.2	2.8	62.8
77	27.3	0.0	38.6

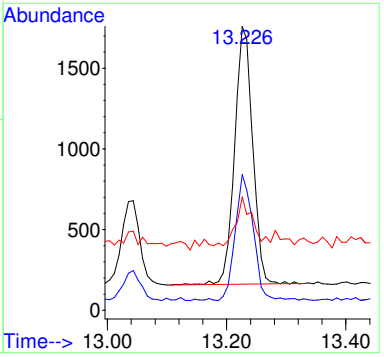


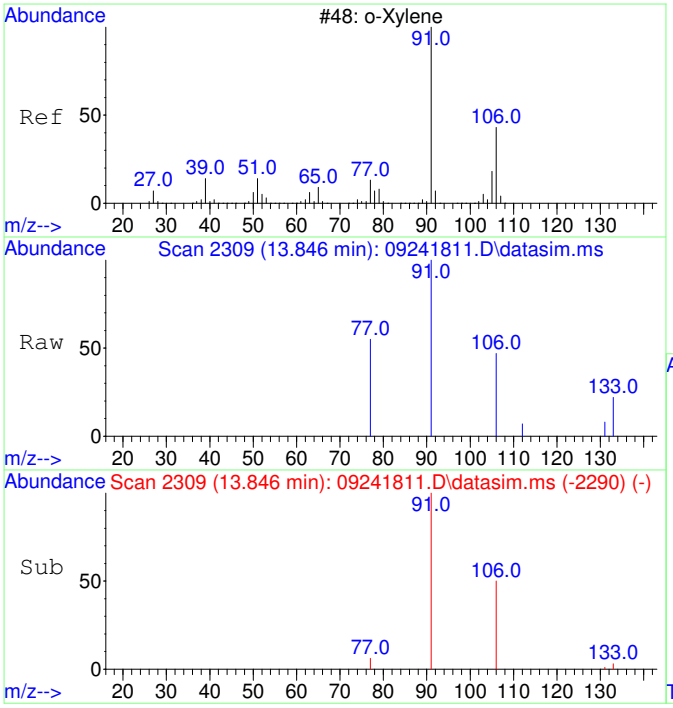


#19
m&p-Xylene
Concen: 105.21 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 3366

Ion	Ratio	Lower	Upper
91	100		
106	49.1	21.2	81.2
77	18.0	0.0	42.9

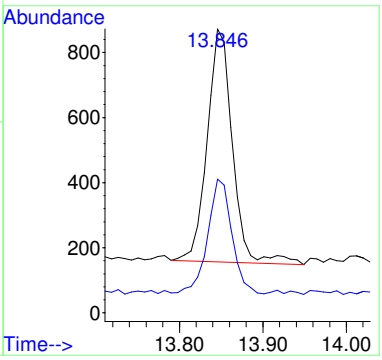


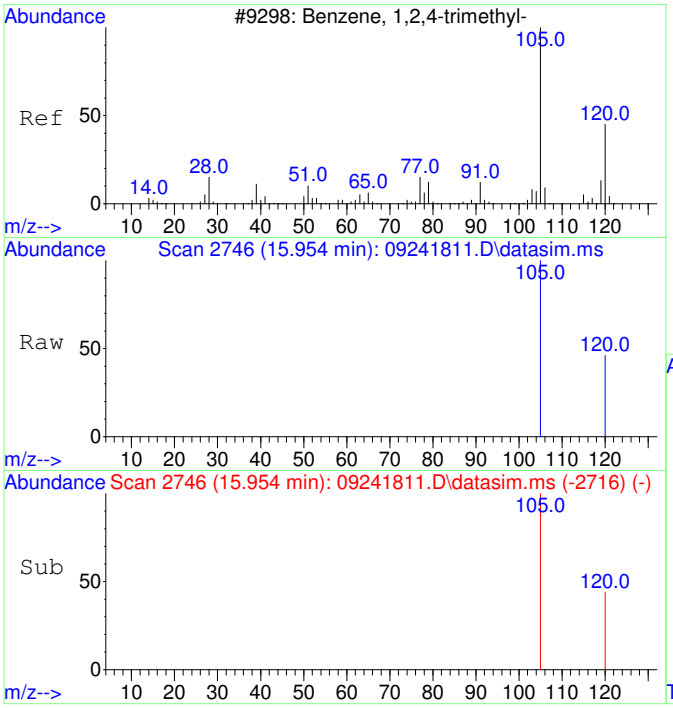


#20
o-Xylene
Concen: 44.60 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 1511

Ion	Ratio	Lower	Upper
91	100		
106	46.4	18.3	78.3

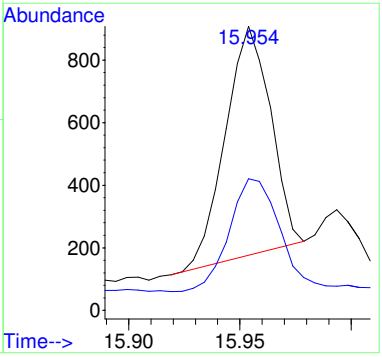


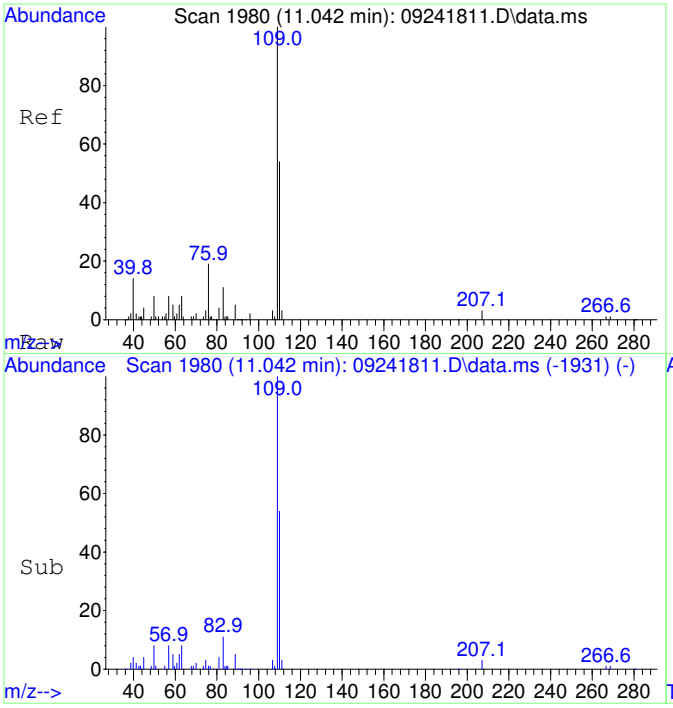


#23
1,2,4-Trimethylbenzene
Concen: 27.51 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:105 Resp: 1055

Ion	Ratio	Lower	Upper
105	100		
120	56.0	15.5	75.5

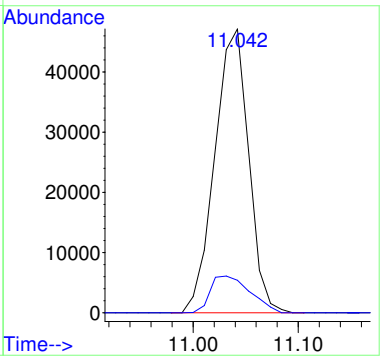


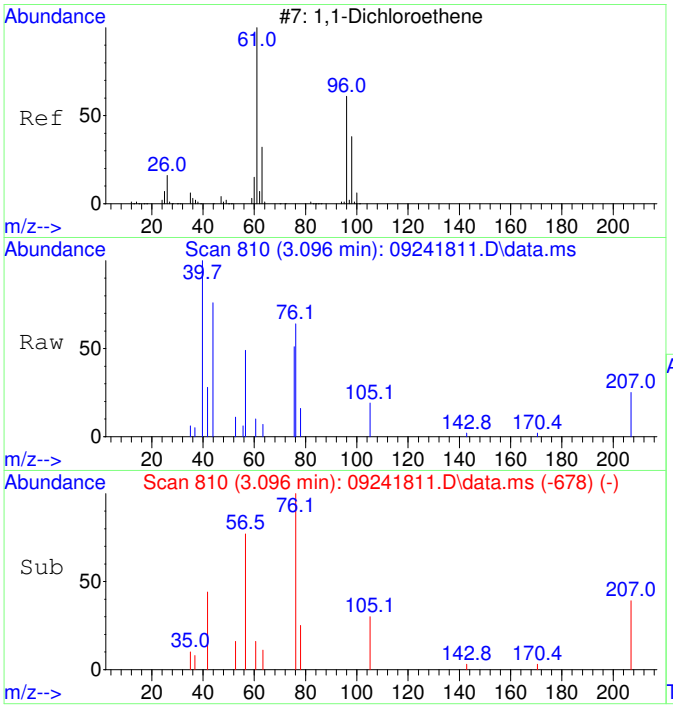


#25
2-Fluorotoluene SCAN
Concen: 5704.52 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.010 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:109 Resp: 105428

Ion	Ratio	Lower	Upper
109	100		
83	15.3	0.0	45.7

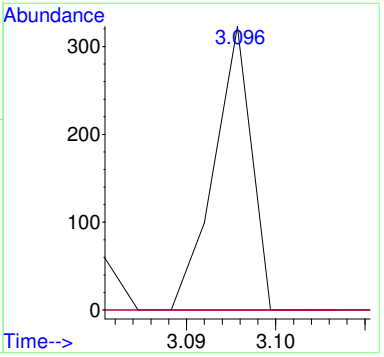


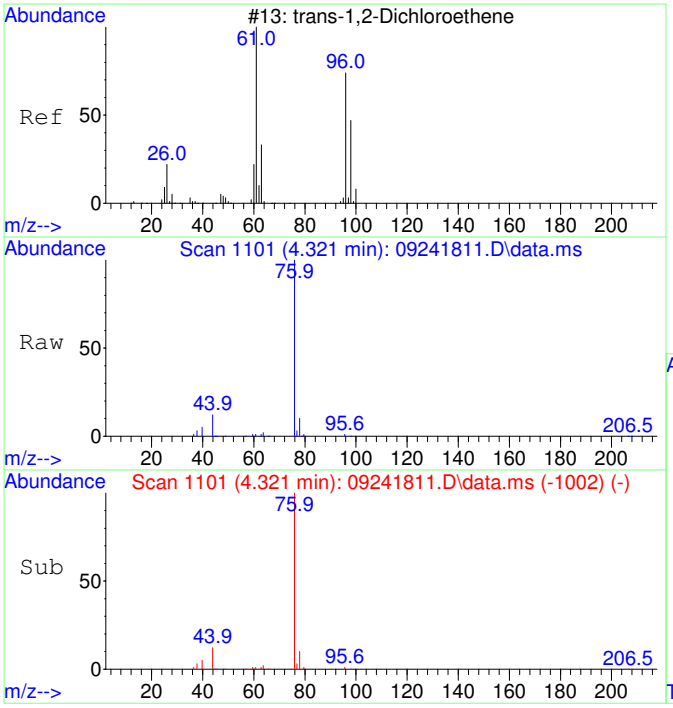


#26
1,1-Dichloroethene SCAN
Concen: 20.38 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.011 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 94

Ion	Ratio	Lower	Upper
61	100		
96	0.0	23.8	83.8#
98	0.0	8.8	68.8#

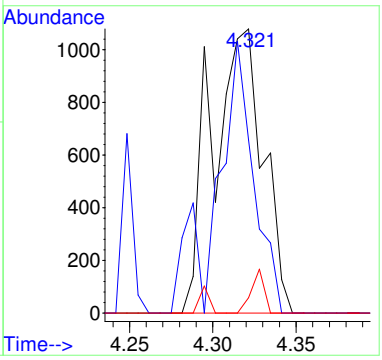


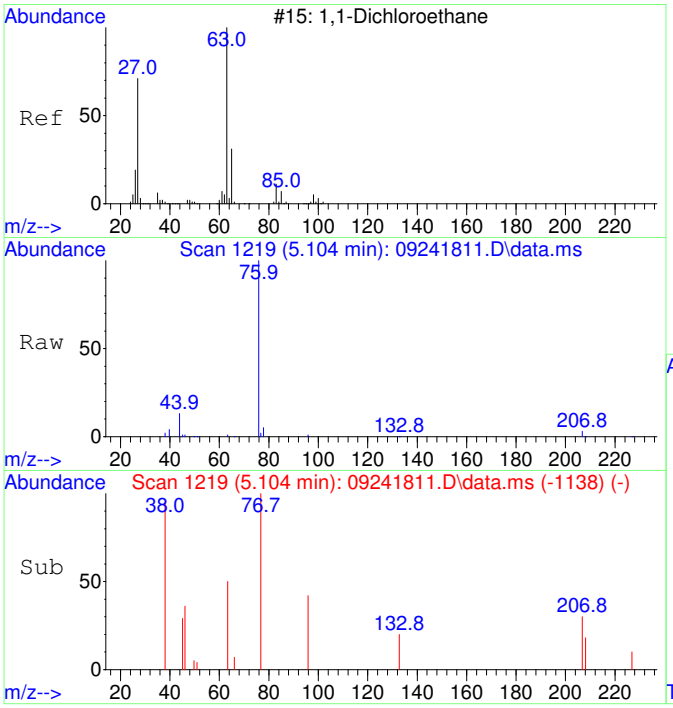


#27
trans-1,2-Dichloroethene SCAN
Concen: 430.81 ug/L
RT: 4.321 min Scan# 1101
Delta R.T. 0.013 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 2313

Ion	Ratio	Lower	Upper
61	100		
96	57.7	37.9	97.9
98	3.9	12.7	72.7#

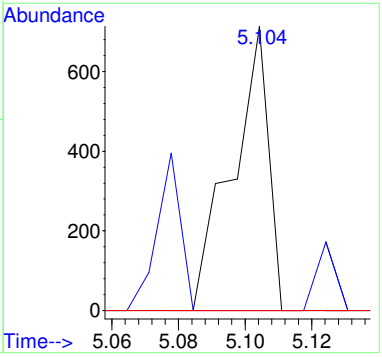


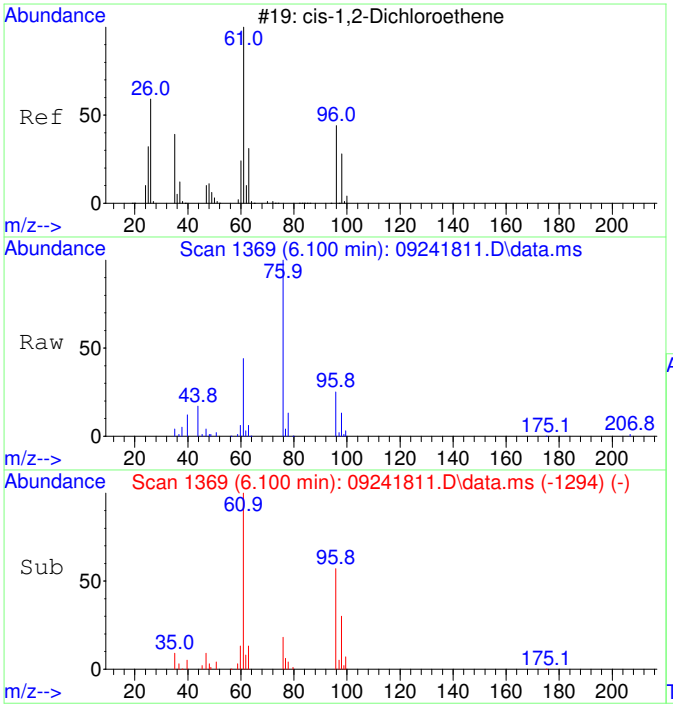


#28
1,1-Dichloroethane SCAN
Concen: 79.35 ug/L
RT: 5.104 min Scan# 1219
Delta R.T. 0.040 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 63 Resp: 542

Ion	Ratio	Lower	Upper
63	100		
65	12.5	7.5	67.5
83	0.0	0.0	34.3

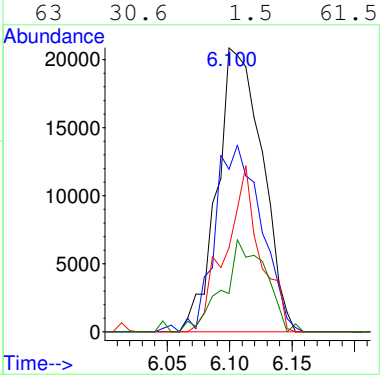


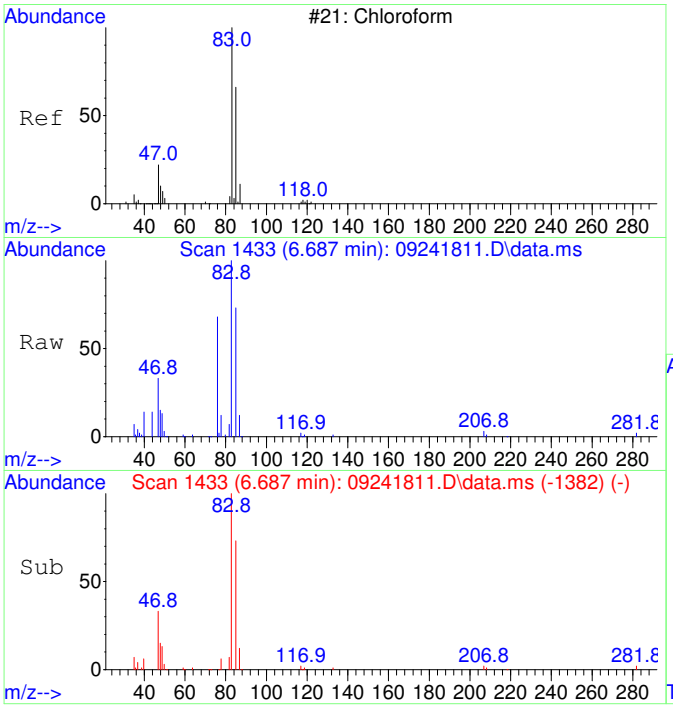


#29
cis-1,2-Dichloroethene SCAN
Concen: 8844.53 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 61 Resp: 52246

Ion	Ratio	Lower	Upper
61	100		
96	68.2	28.2	88.2
98	45.1	14.1	74.1
63	30.6	1.5	61.5

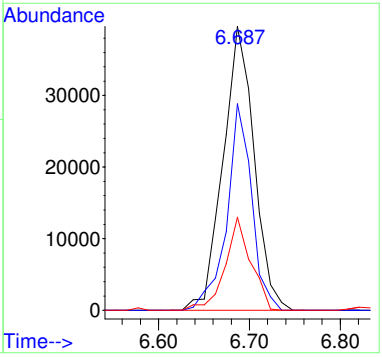


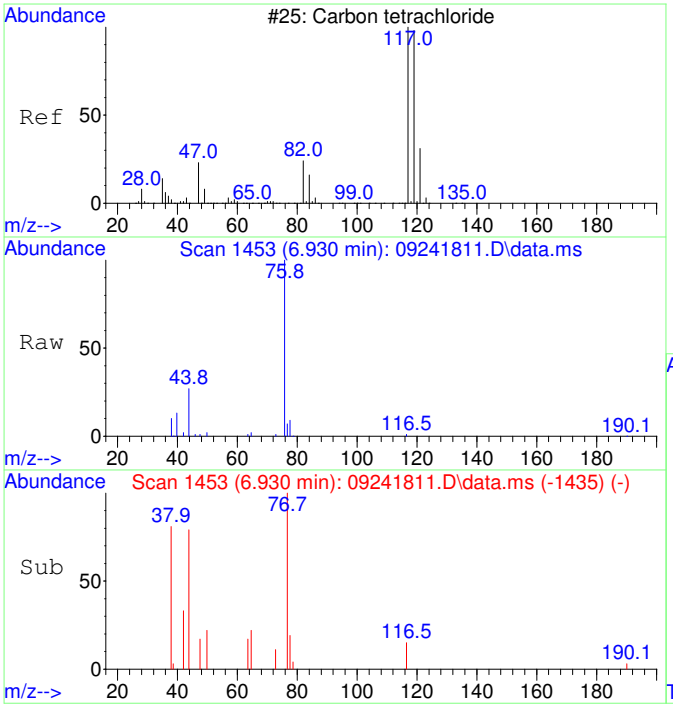


#30
Chloroform SCAN
Concen: 13021.28 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 83 Resp: 94413

Ion	Ratio	Lower	Upper
83	100		
85	58.1	32.6	92.6
47	27.2	0.0	57.9

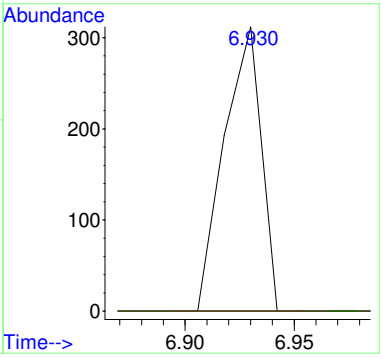


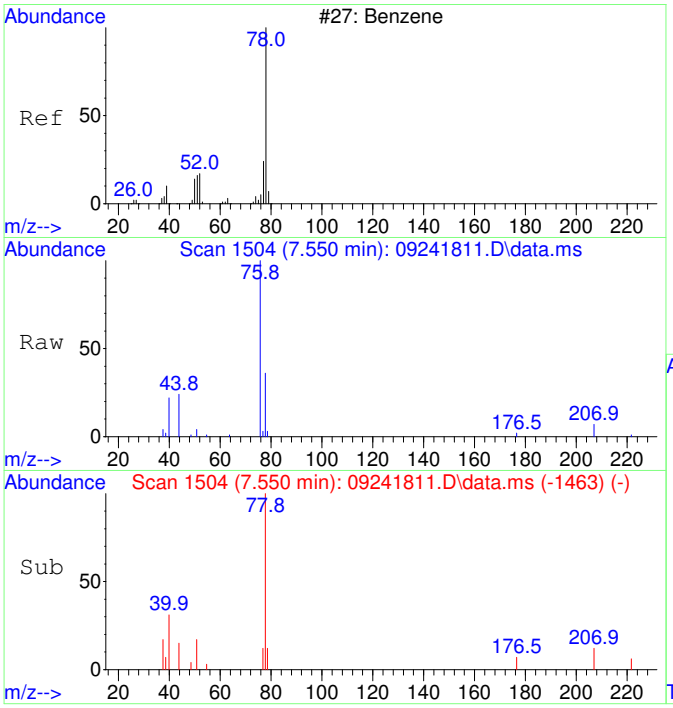


#32
Carbon tetrachloride SCAN
Concen: 58.02 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. -0.280 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:117 Resp: 369

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

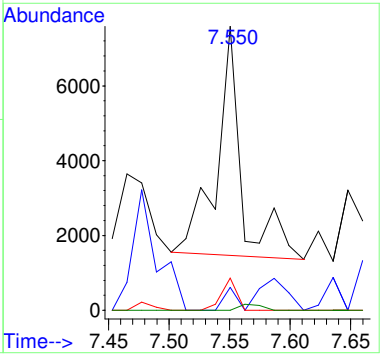


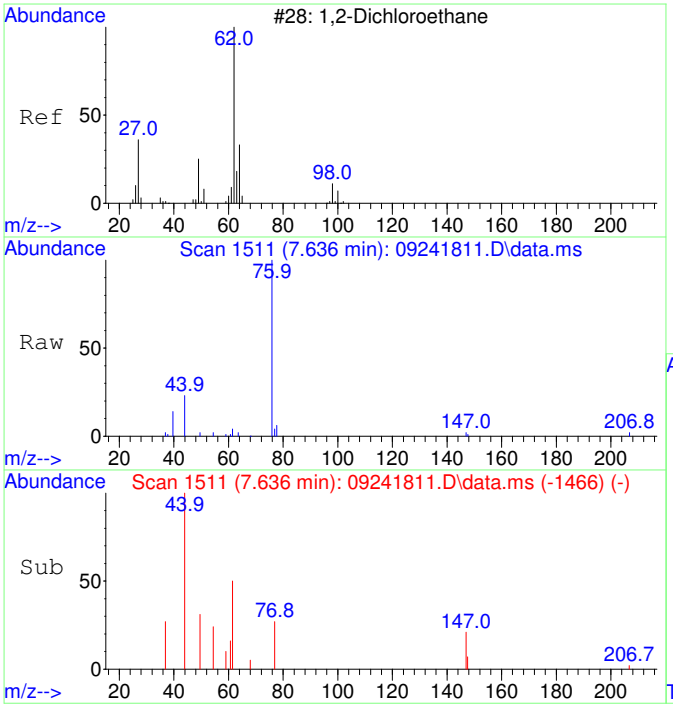


#33
Benzene SCAN
Concen: 449.41 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 78 Resp: 8650

Ion	Ratio	Lower	Upper
78	100		
77	0.0	3.0	63.0#
51	8.6	0.0	56.4
52	2.4	0.0	48.0

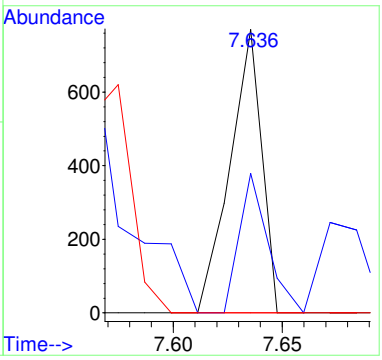


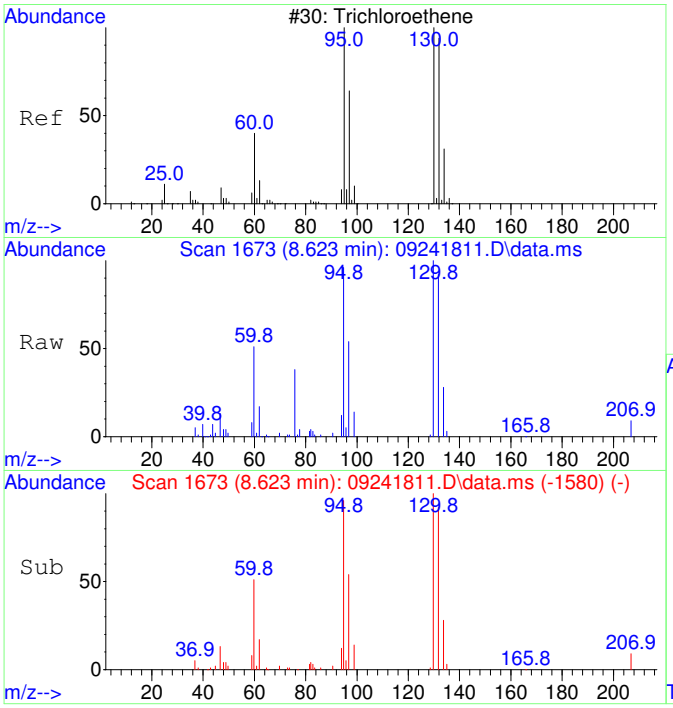


#34
1,2-Dichloroethane SCAN
Concen: 118.83 ug/L
RT: 7.636 min Scan# 1511
Delta R.T. 0.049 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 62 Resp: 780

Ion	Ratio	Lower	Upper
62	100		
64	44.2	1.2	61.2
49	0.0	10.4	70.4#

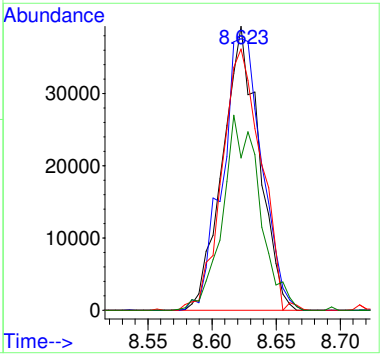


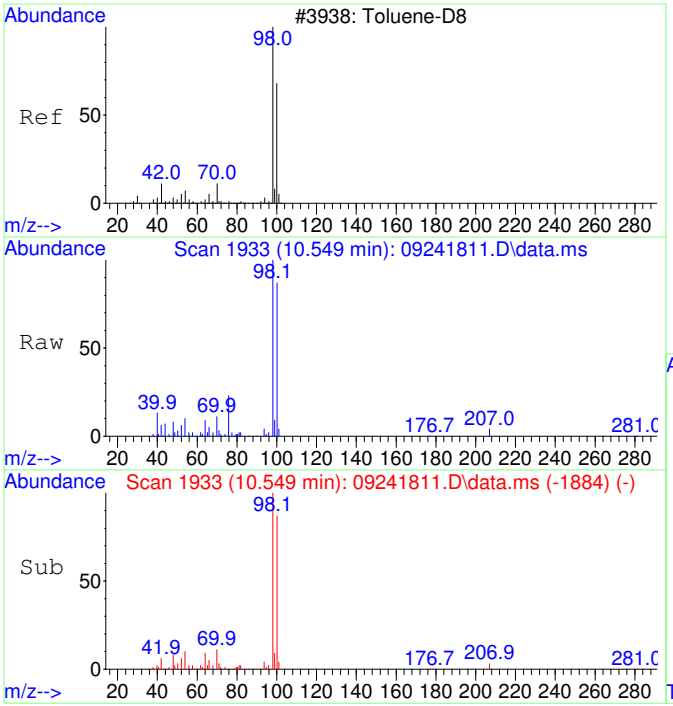


#35
Trichloroethene SCAN
Concen: 16505.87 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. 0.005 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:130 Resp: 77743

Ion	Ratio	Lower	Upper
130	100		
95	104.4	70.5	130.5
132	98.4	63.8	123.8
97	69.4	34.8	94.8

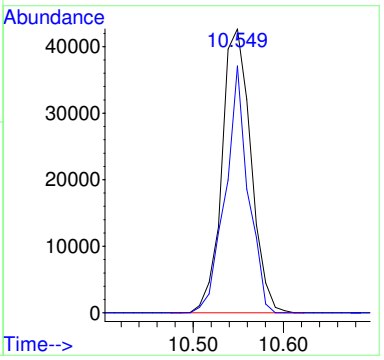


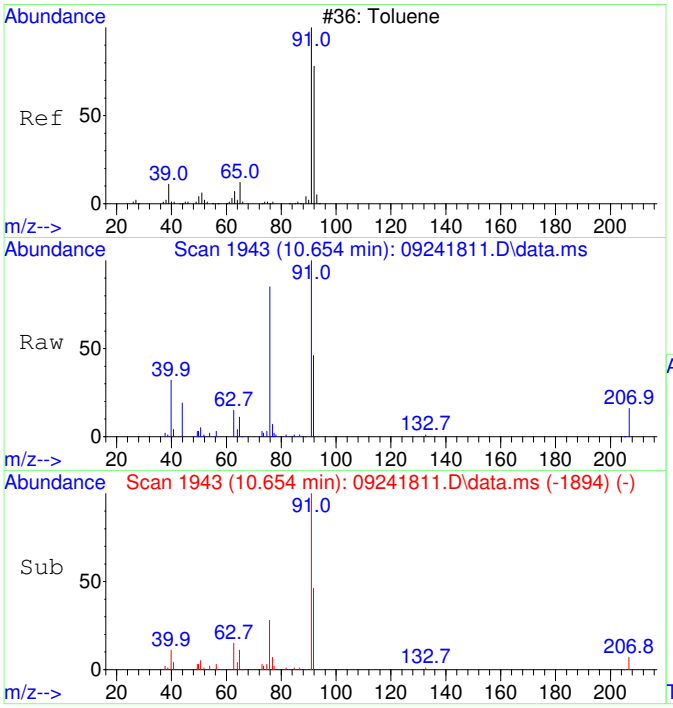


#36
Toluene-d8 SCAN
Concen: 5725.74 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 98 Resp: 95661

Ion	Ratio	Lower	Upper
98	100		
100	68.5	39.5	99.5

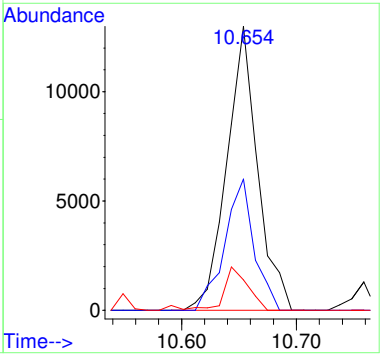


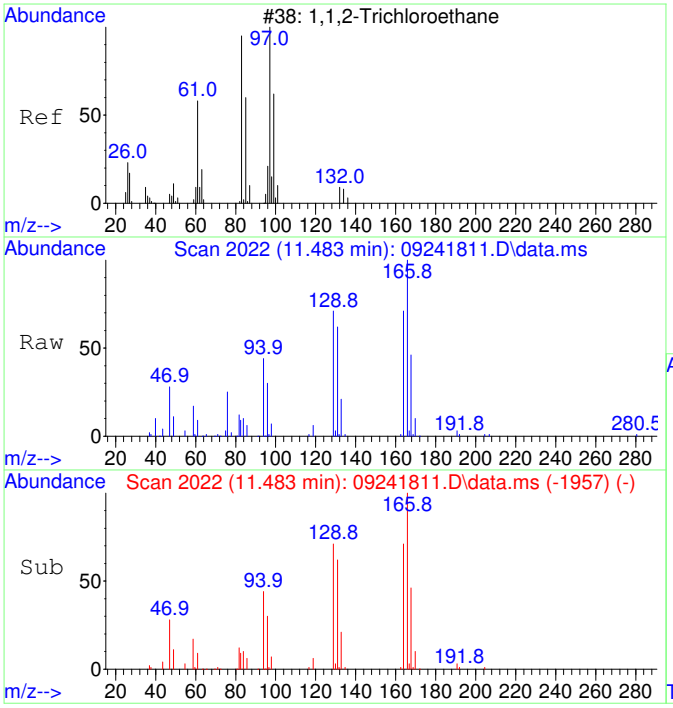


#37
Toluene SCAN
Concen: 1135.19 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 24227

Ion	Ratio	Lower	Upper
91	100		
92	44.1	26.6	86.6
65	10.3	0.0	42.3

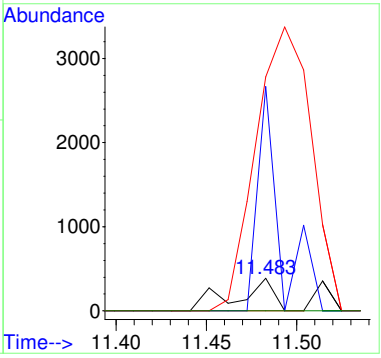


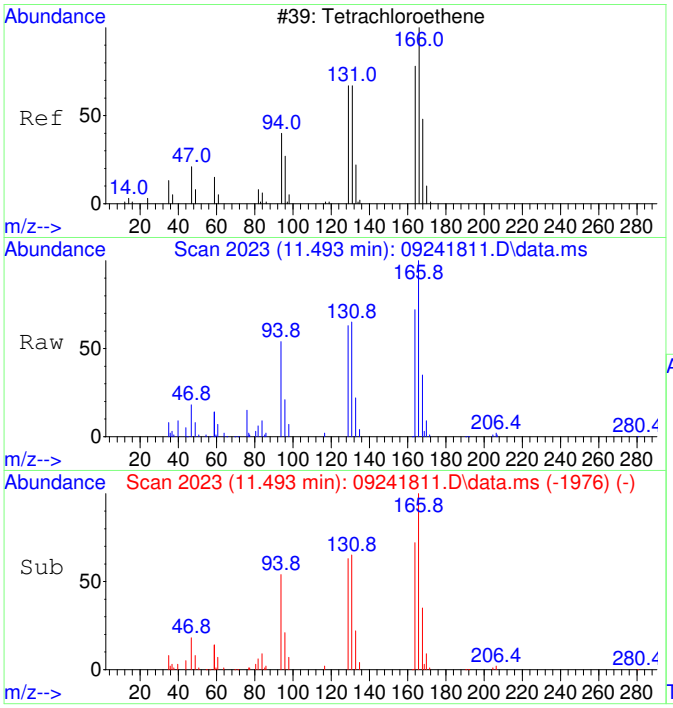


#38
1,1,2-Trichloroethane SCAN
Concen: 136.69 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. 0.178 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 97 Resp: 559

Ion	Ratio	Lower	Upper
97	100		
83	415.0	63.6	123.6#
61	1293.0	44.9	104.9#
99	0.0	37.0	97.0#

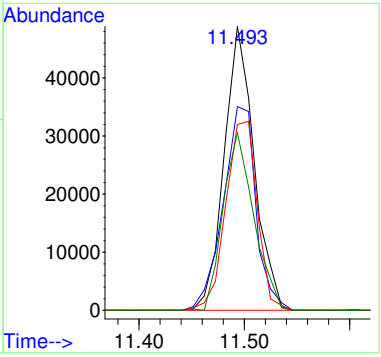


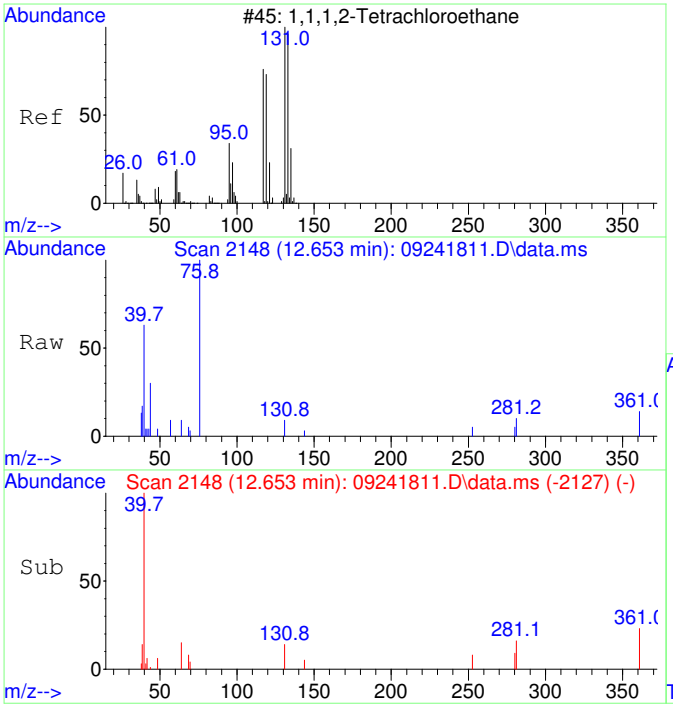


#39
Tetrachloroethene SCAN
Concen: 20644.10 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.011 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:166 Resp: 96680

Ion	Ratio	Lower	Upper
166	100		
164	78.5	43.3	103.3
131	69.9	35.6	95.6
129	64.1	36.6	96.6

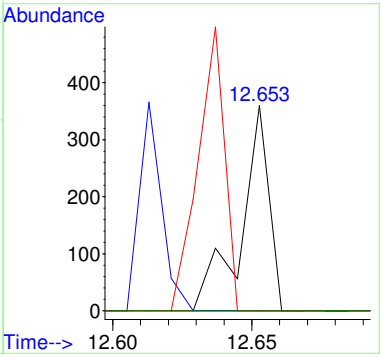


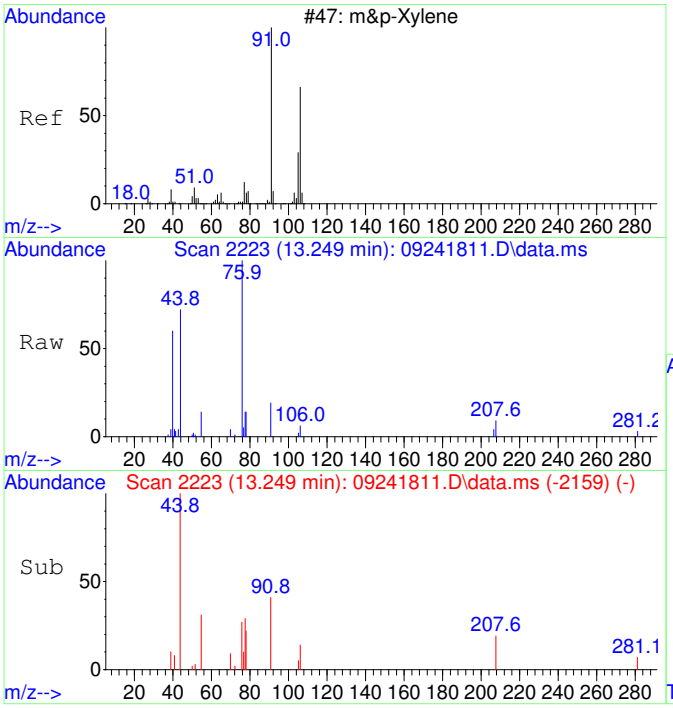


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 54.32 ug/L
RT: 12.653 min Scan# 2148
Delta R.T. -0.334 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion:131 Resp: 251

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	131.9	37.9	97.9#
117	0.0	28.2	88.2#

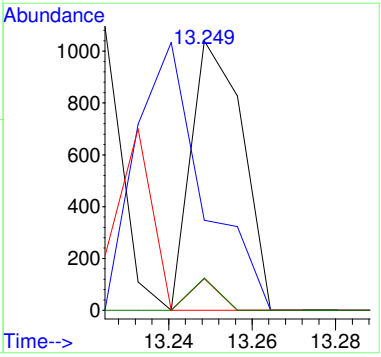


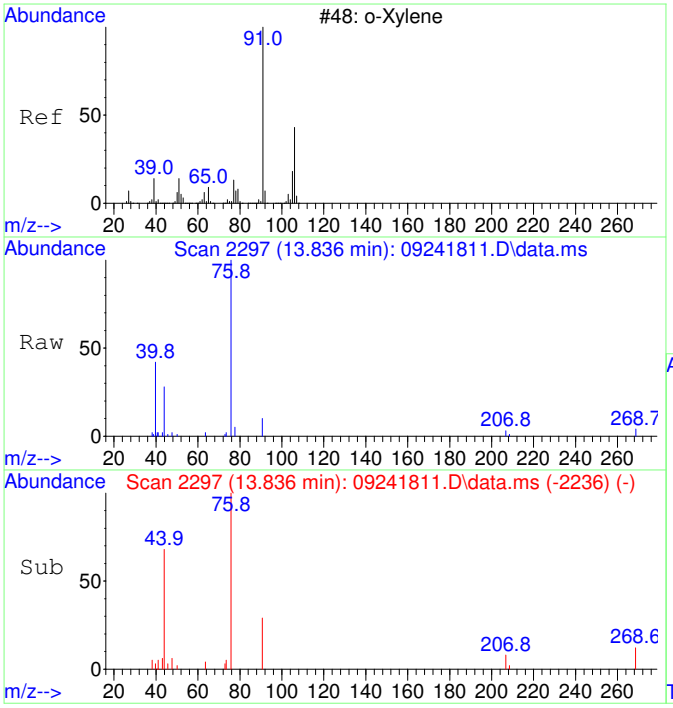


#43
m&p-Xylene SCAN
Concen: 25.85 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.008 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 890

Ion	Ratio	Lower	Upper
91	100		
106	129.8	20.1	80.1#
105	0.0	0.0	51.1
51	6.7	0.0	40.7

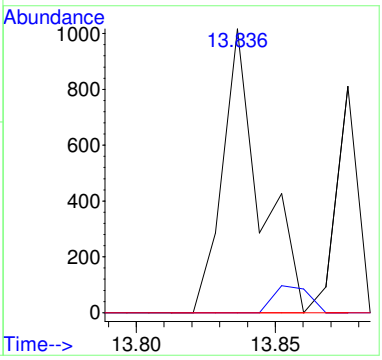


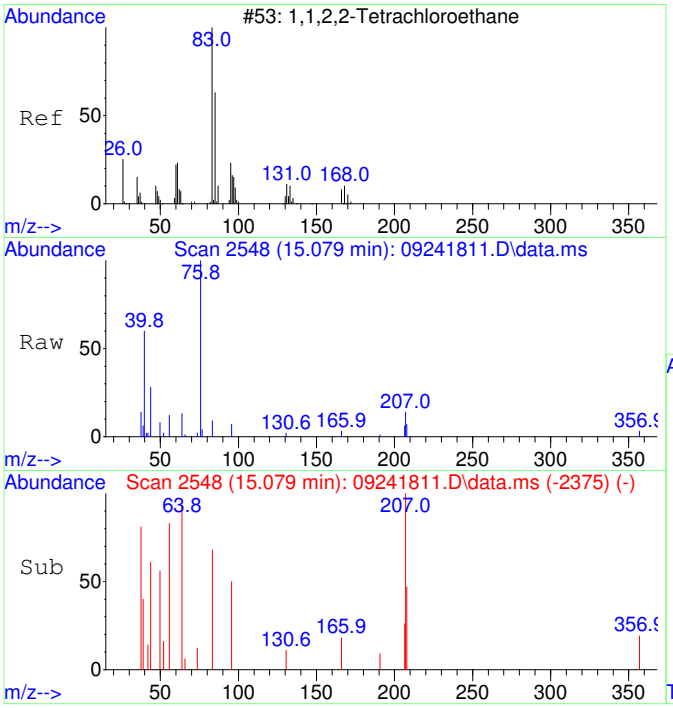


#44
o-Xylene SCAN
Concen: 48.98 ug/L
RT: 13.836 min Scan# 2297
Delta R.T. -0.016 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 91 Resp: 960

Ion	Ratio	Lower	Upper
91	100		
106	9.1	21.3	81.3#
105	0.0	0.0	55.2

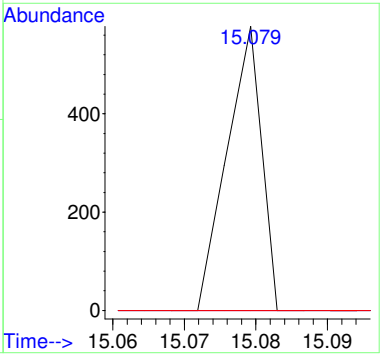




#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 20.89 ug/L
RT: 15.079 min Scan# 2548
Delta R.T. 0.141 min
Lab File: 09241811.D
Acq: 24 Sep 2018 16:12

Tgt Ion: 83 Resp: 194

Ion	Ratio	Lower	Upper
83	100		
85	0.0	31.6	91.6#
95	0.0	0.0	49.0



1809026-03

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241812.D
Acq On : 24 Sep 2018 16:36
InstName : AG5975C
Operator : RH
Sample : 1809026-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 17:19:47 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

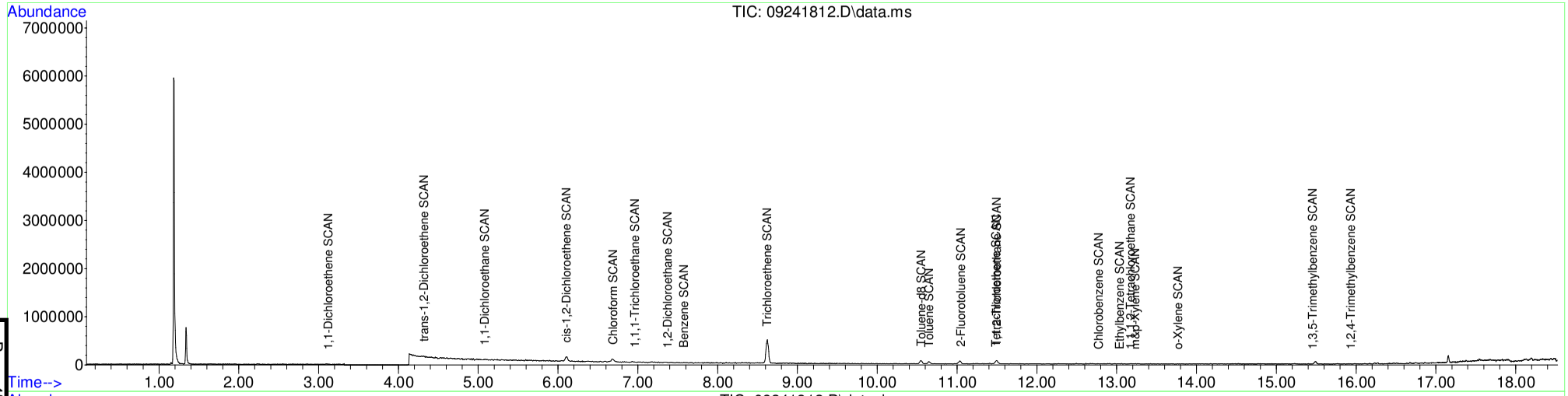
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	82470	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	68644	5124.36 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.49%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	6663	1927.89 ug/L	96
3] trans-1,2-Dichloroethene	4.303	61	5607	1520.46 ug/L	99
4] 1,1-Dichloroethane	5.072	63	6554	1427.92 ug/L	98
5] cis-1,2-Dichloroethene	6.101	61	94769	20929.67 ug/L	100
6] Chloroform	6.676	83	75409	15466.81 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	3322	692.24 ug/L	96
8] Carbon tetrachloride	7.211	117	165	36.30 ug/L	93
11] Trichloroethene	8.618	130	307019	84362.69 ug/L	100
13] Toluene	10.645	91	44548	2480.31 ug/L	99
15] Tetrachloroethene	11.495	166	38427	7593.79 ug/L	99
18] Ethylbenzene	13.035	91	513	23.80 ug/L	77
19] m&p-Xylene	13.234	91	1184	71.17 ug/L	88
20] o-Xylene	13.846	91	549	31.16 ug/L	99
25) 2-Fluorotoluene SCAN	11.042	109	52348	5447.27 ug/L	96
26) 1,1-Dichloroethene SCAN	3.114	61	2311	963.72 ug/L #	53
27) trans-1,2-Dichloroethe...	4.315	61	1108	396.88 ug/L #	1
28) 1,1-Dichloroethane SCAN	5.078	63	3858	1086.28 ug/L	77
29) cis-1,2-Dichloroethene...	6.106	61	70271	22877.74 ug/L	95
30) Chloroform SCAN	6.687	83	53846	14282.06 ug/L	94
31) 1,1,1-Trichloroethane ...	6.954	97	1236	368.28 ug/L #	18
33) Benzene SCAN	7.575	78	4823	481.90 ug/L #	70
34) 1,2-Dichloroethane SCAN	7.368	62	146	42.78 ug/L #	39
35) Trichloroethene SCAN	8.617	130	172053	70251.35 ug/L	89
36) Toluene-d8 SCAN	10.549	98	50211	5779.78 ug/L	95
37) Toluene SCAN	10.643	91	35938	3238.47 ug/L	97
38) 1,1,2-Trichloroethane ...	11.493	97	281	132.14 ug/L #	1
39) Tetrachloroethene SCAN	11.483	166	25788	10589.91 ug/L #	66
40) Chlorobenzene SCAN	12.772	112	389	57.79 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	13.169	131	343	142.75 ug/L #	39
42) Ethylbenzene SCAN	13.034	91	959	74.35 ug/L #	66
43) m&p-Xylene SCAN	13.233	91	1570	87.69 ug/L #	48
44) o-Xylene SCAN	13.765	91	273	26.79 ug/L #	34
46) 1,3,5-Trimethylbenzene...	15.453	105	212	20.98 ug/L #	38
47) 1,2,4-Trimethylbenzene...	15.929	105	212	20.47 ug/L #	5

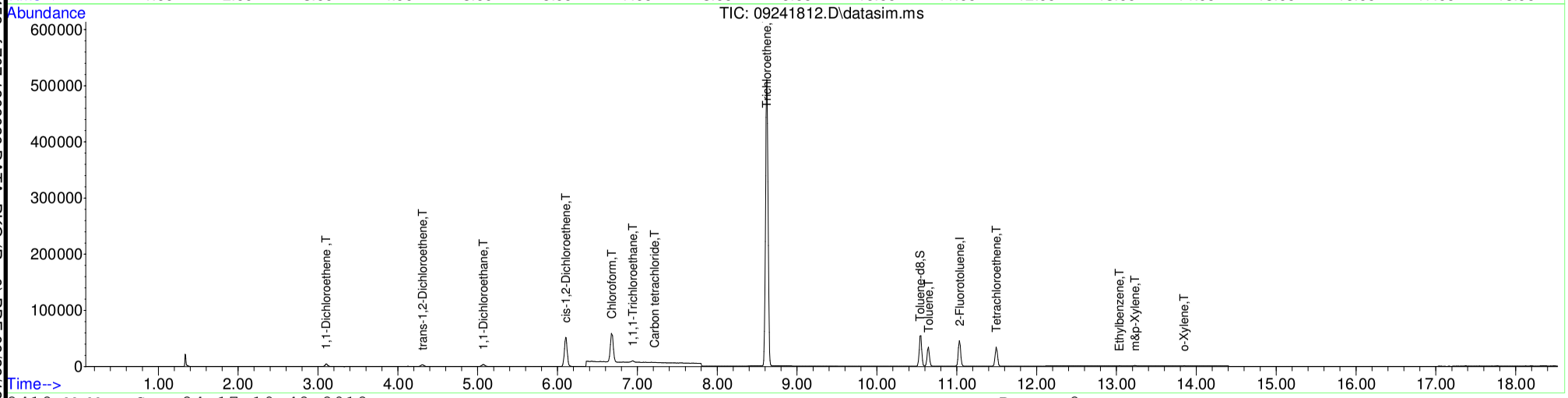
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241812.D
Acq On : 24 Sep 2018 16:36
InstName : AG5975C
Operator : RH
Sample : 1809026-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 17:19:47 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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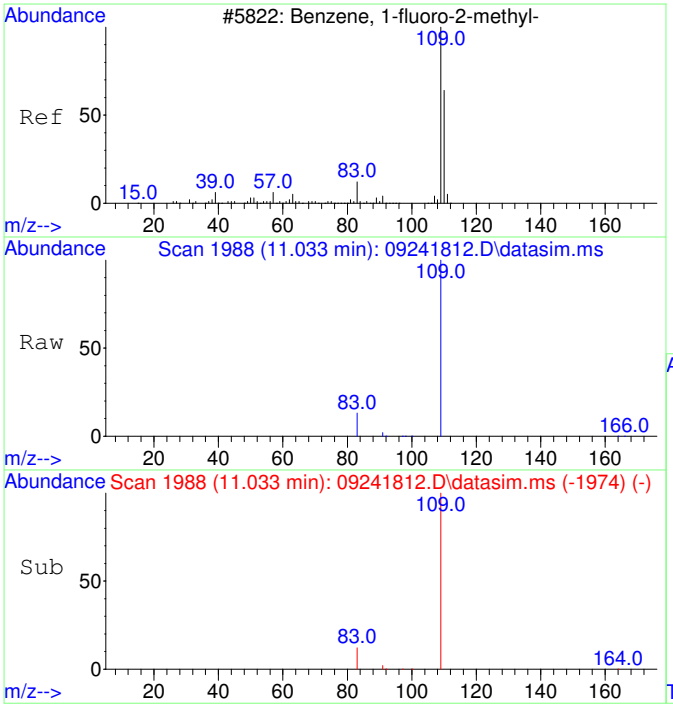
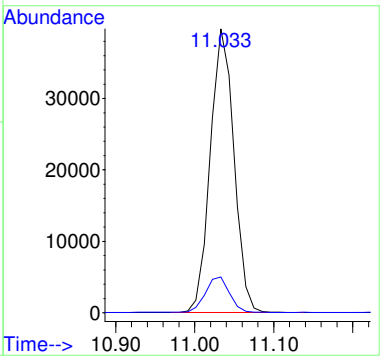
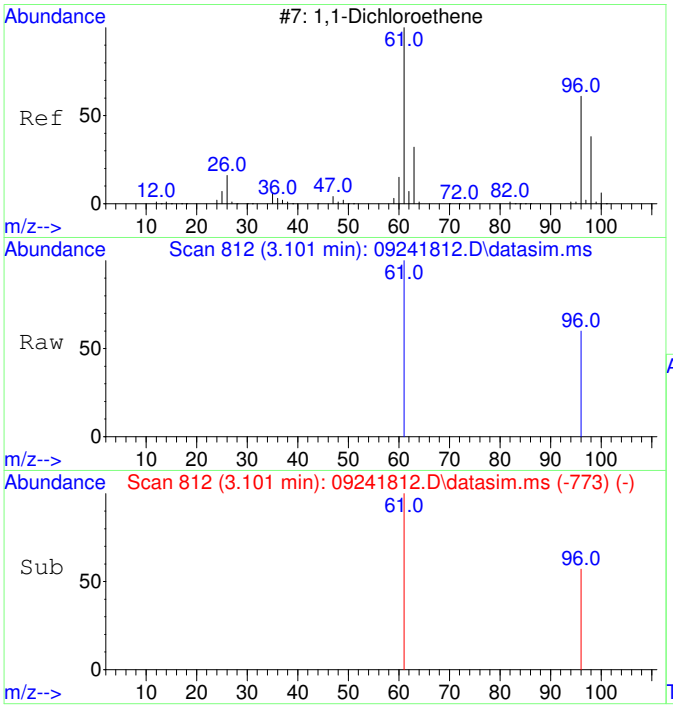


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:109 Resp: 82470

Ion	Ratio	Lower	Upper
109	100		
83	12.8	0.0	44.7

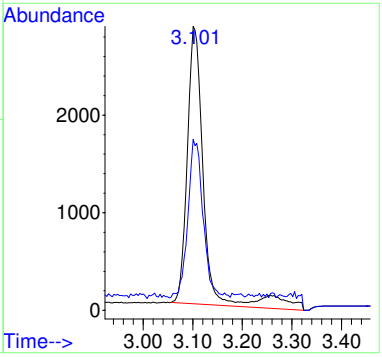




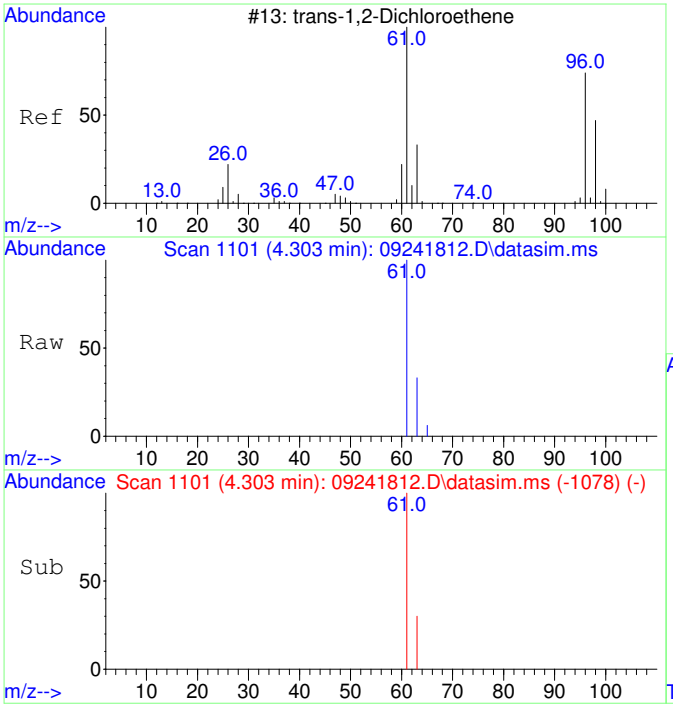
#2
1,1-Dichloroethene
Concen: 1927.89 ug/L
RT: 3.101 min Scan# 812
Delta R.T. -0.004 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 6663

Ion	Ratio	Lower	Upper
61	100		
96	55.7	28.7	88.7



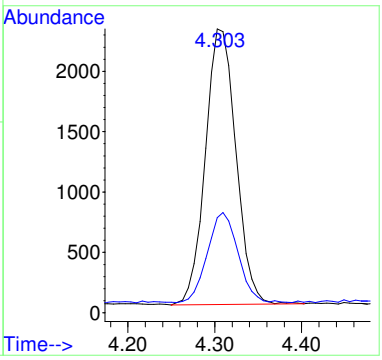
Before MI:
IMPROPER
BASELINE

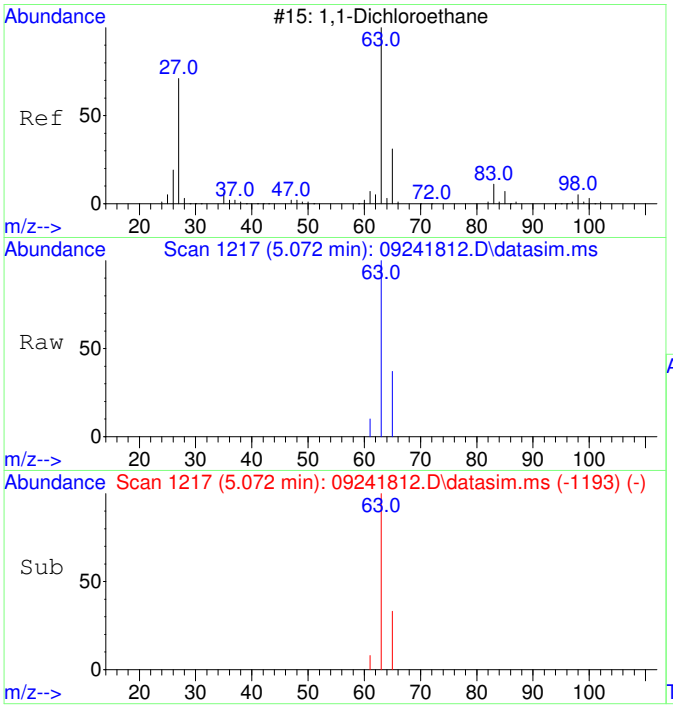


#3
trans-1,2-Dichloroethene
Concen: 1520.46 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 5607

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.0	62.0

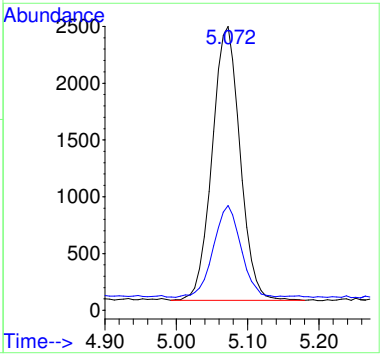


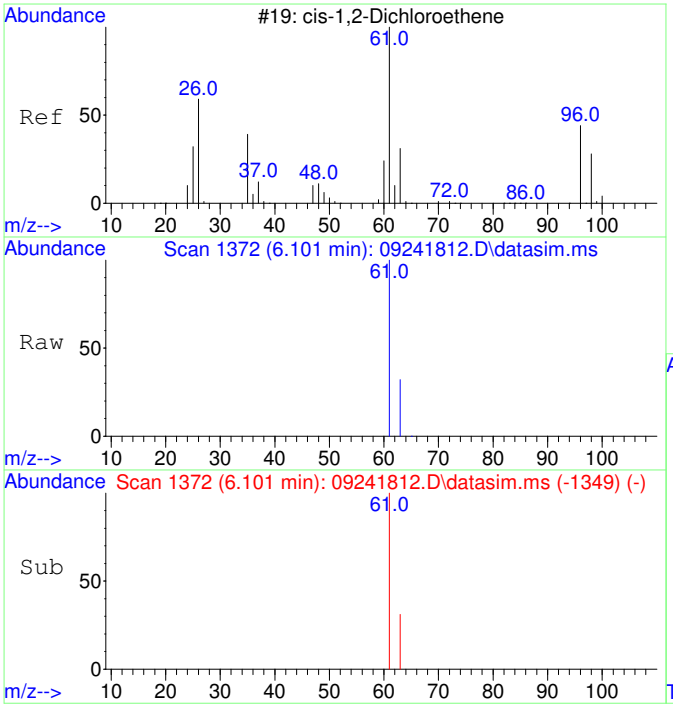


#4
1,1-Dichloroethane
Concen: 1427.92 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 63 Resp: 6554

Ion	Ratio	Lower	Upper
63	100		
65	32.8	1.5	61.5

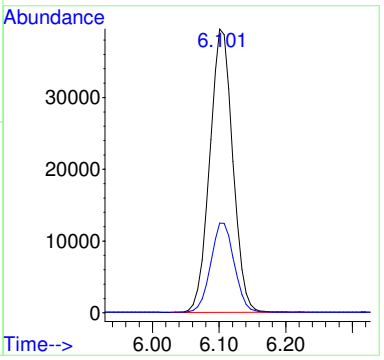


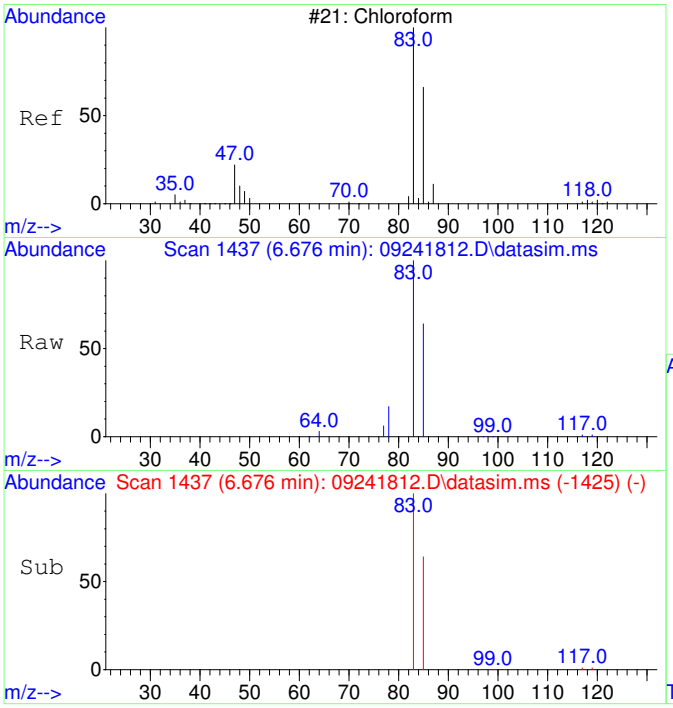


#5
cis-1,2-Dichloroethene
Concen: 20929.67 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 94769

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.2	62.2

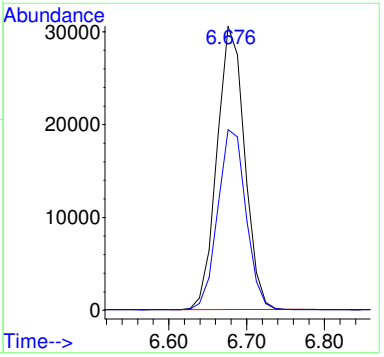


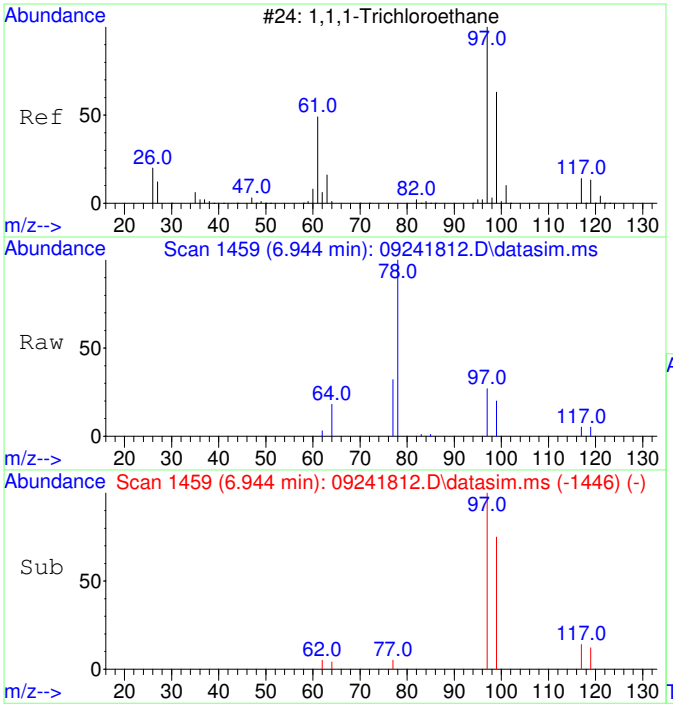


#6
Chloroform
Concen: 15466.81 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 83 Resp: 75409

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.8	94.8

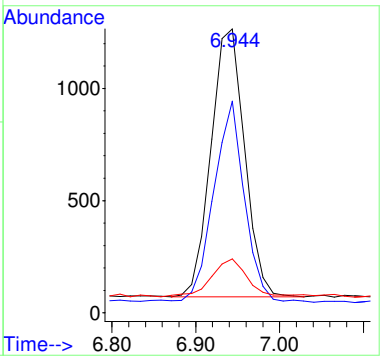


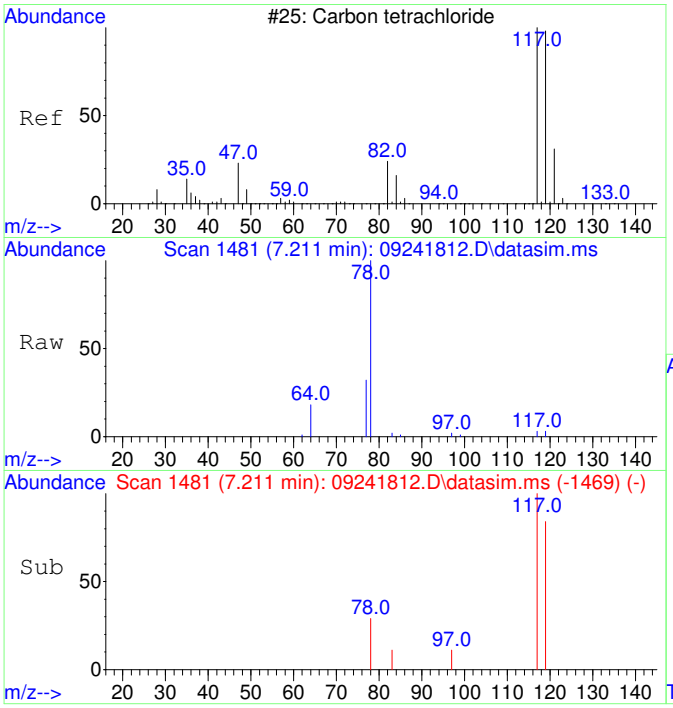


#7
1,1,1-Trichloroethane
Concen: 692.24 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 97 Resp: 3322

Ion	Ratio	Lower	Upper
97	100		
99	67.6	34.6	94.6
117	14.9	0.0	42.9

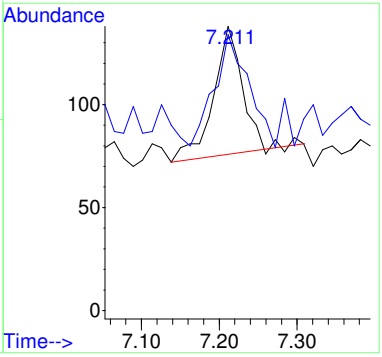


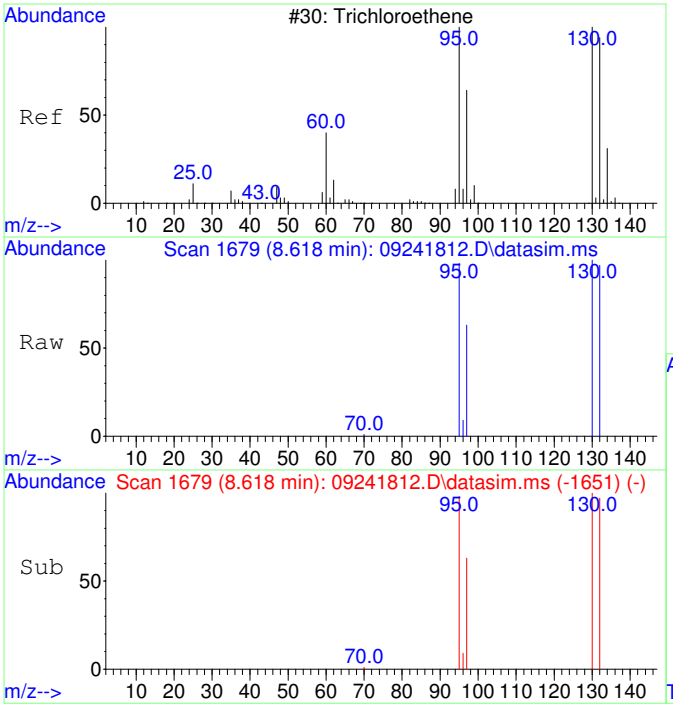


#8
Carbon tetrachloride
Concen: 36.30 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:117 Resp: 165

Ion	Ratio	Lower	Upper
117	100		
119	102.4	65.9	125.9

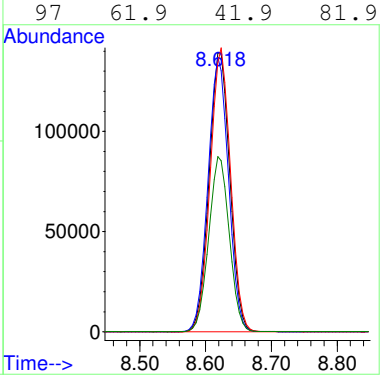


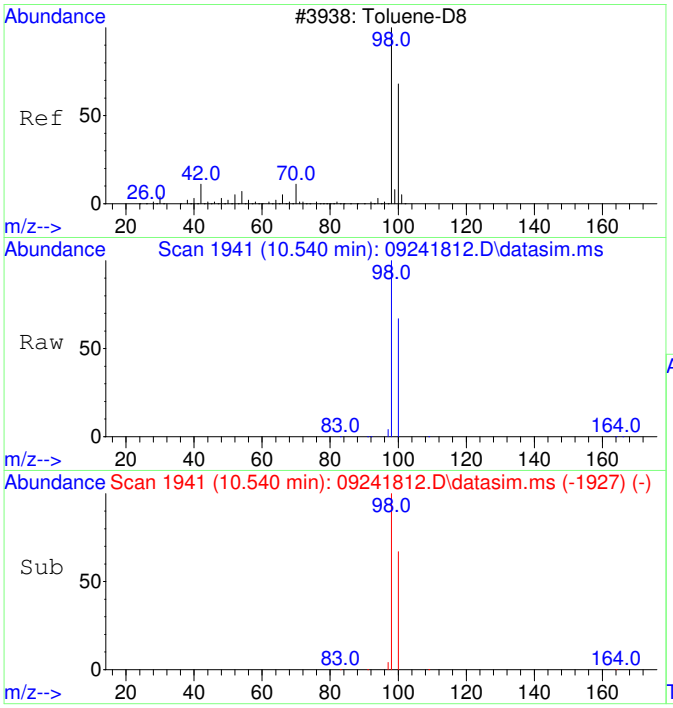


#11
Trichloroethene
Concen: 84362.69 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:130 Resp: 307019

Ion	Ratio	Lower	Upper
130	100		
95	96.7	66.0	126.0
132	99.2	78.8	118.8
97	61.9	41.9	81.9

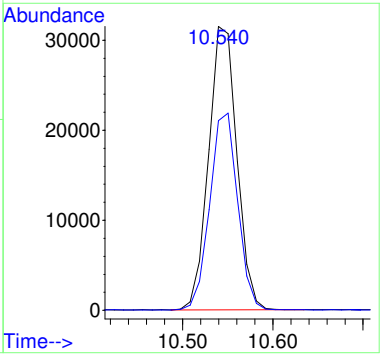


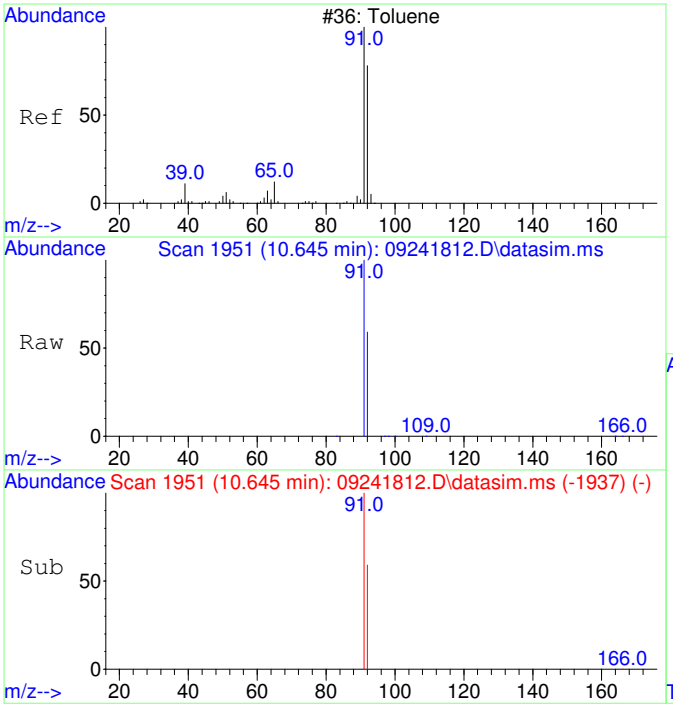


#12
Toluene-d8
Concen: 5124.36 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 98 Resp: 68644

Ion	Ratio	Lower	Upper
98	100		
100	68.5	38.7	98.7

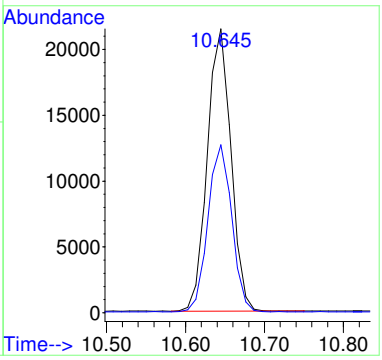


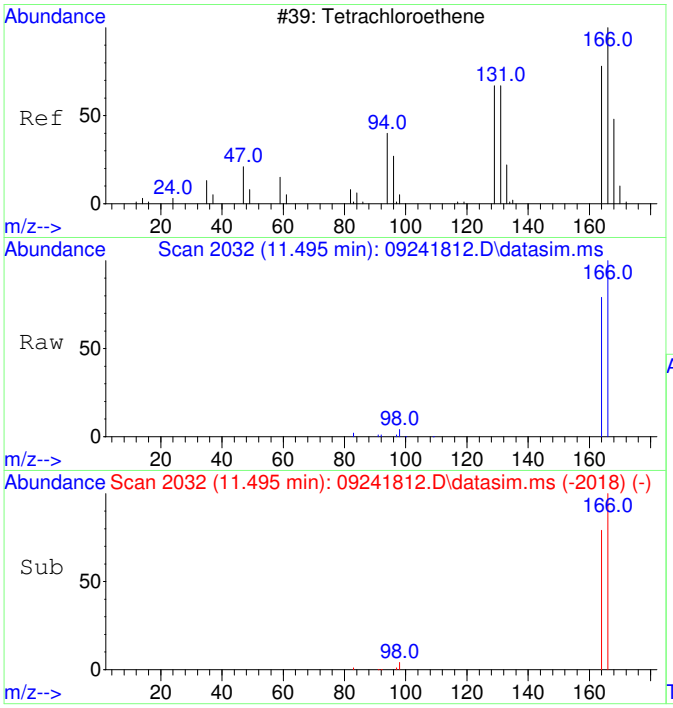


#13
Toluene
Concen: 2480.31 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 44548

Ion	Ratio	Lower	Upper
91	100		
92	59.4	30.0	90.0

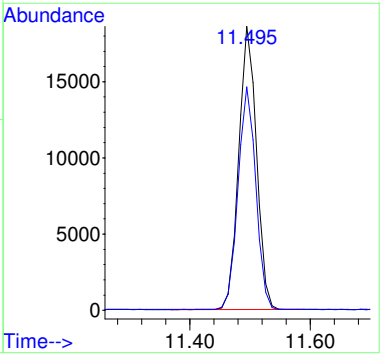


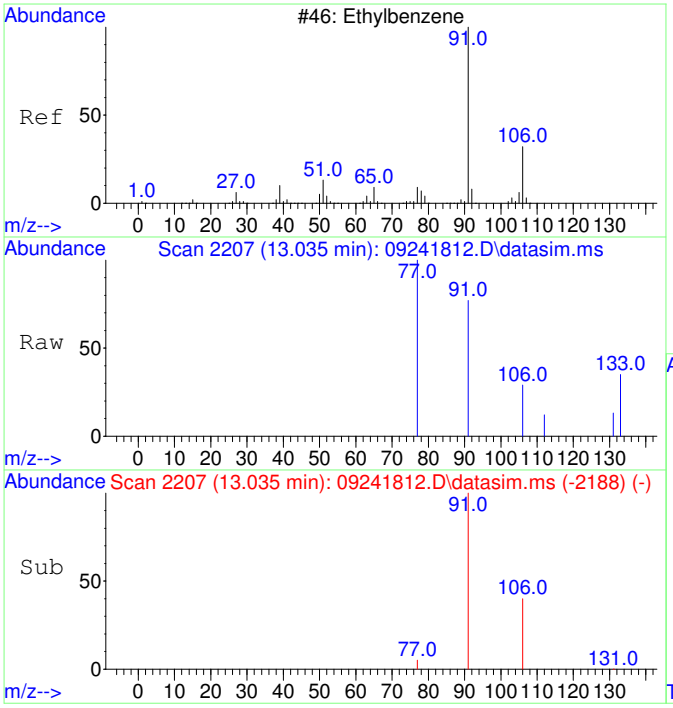


#15
Tetrachloroethene
Concen: 7593.79 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:166 Resp: 38427

Ion	Ratio	Lower	Upper
166	100		
164	78.9	47.8	107.8

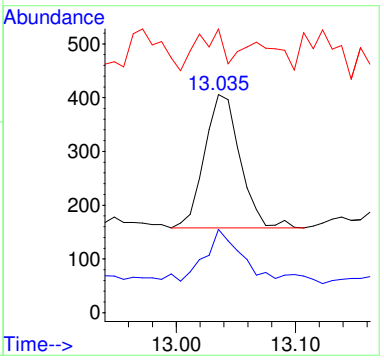


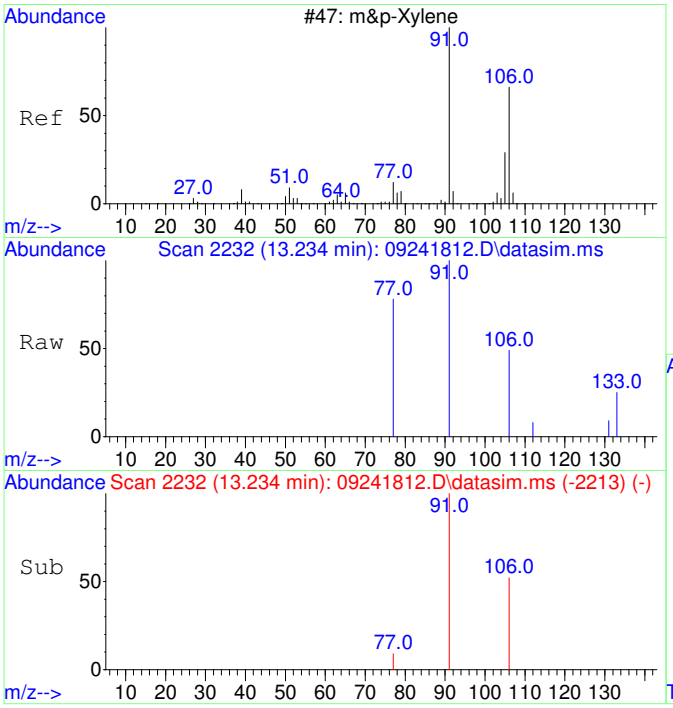


#18
Ethylbenzene
Concen: 23.80 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 513

Ion	Ratio	Lower	Upper
91	100		
106	42.1	2.8	62.8
77	25.7	0.0	38.6

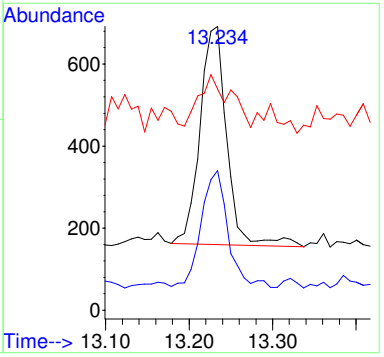


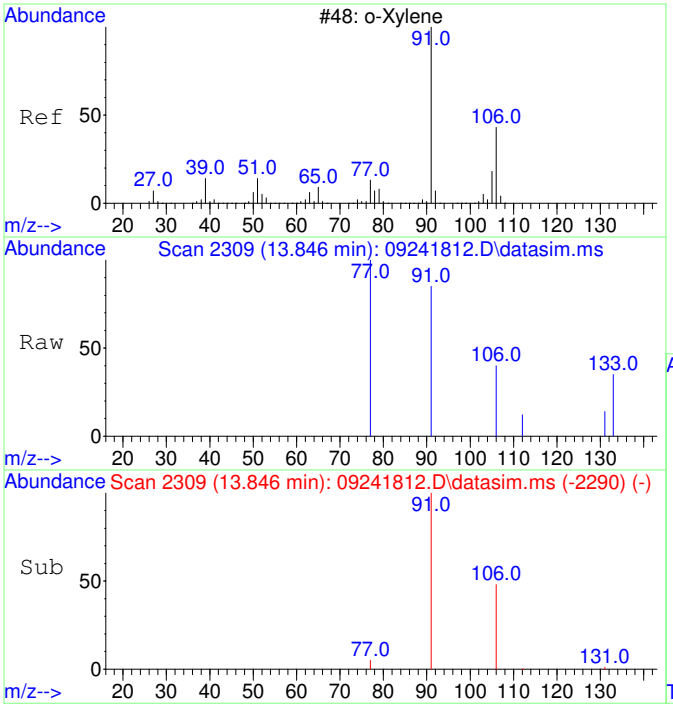


#19
m&p-Xylene
Concen: 71.17 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 1184

Ion	Ratio	Lower	Upper
91	100		
106	52.8	21.2	81.2
77	32.7	0.0	42.9

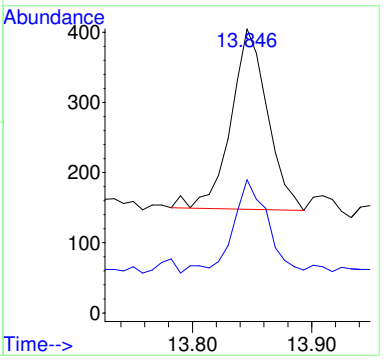


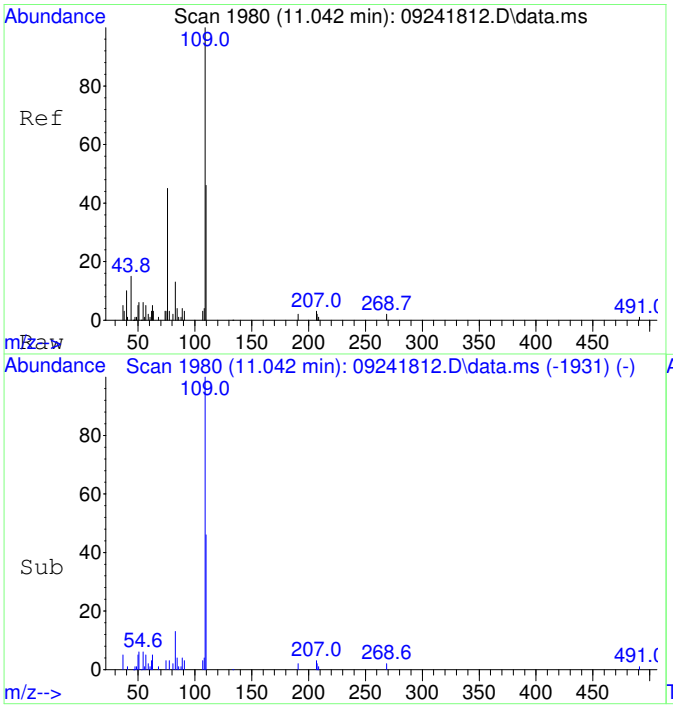


#20
o-Xylene
Concen: 31.16 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 549

Ion	Ratio	Lower	Upper
91	100		
106	49.2	18.3	78.3

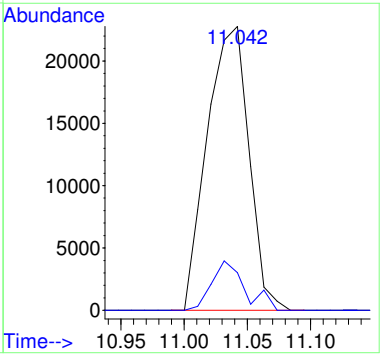


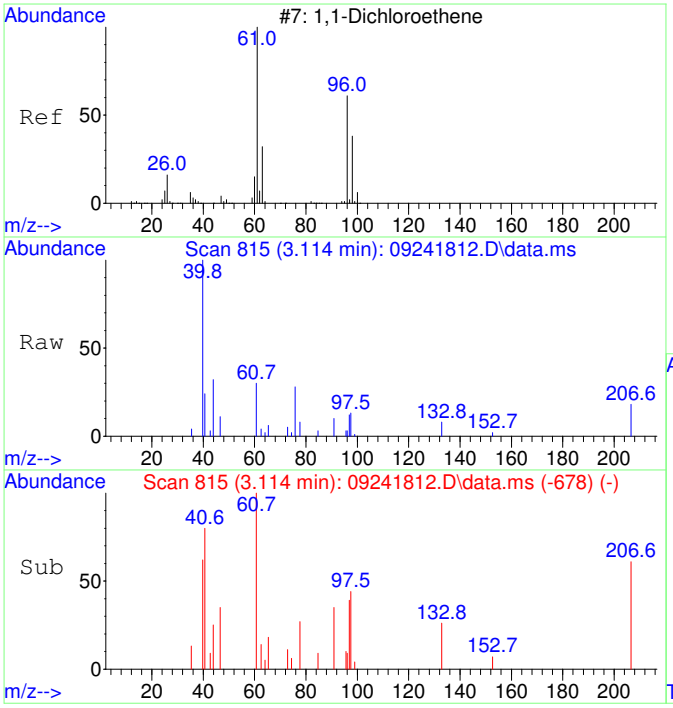


#25
2-Fluorotoluene SCAN
Concen: 5447.27 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.011 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:109 Resp: 52348

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	45.7

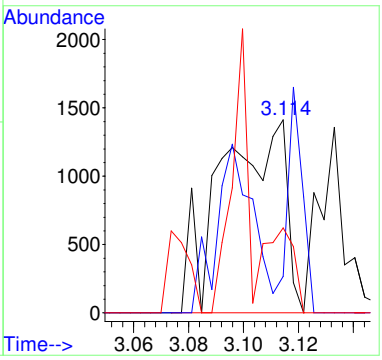


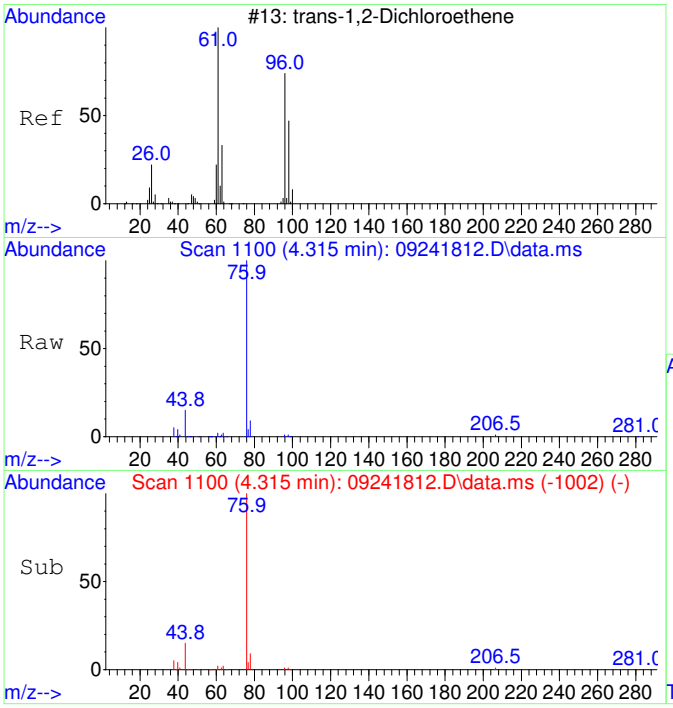


#26
1,1-Dichloroethene SCAN
Concen: 963.72 ug/L
RT: 3.114 min Scan# 815
Delta R.T. 0.008 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 2311

Ion	Ratio	Lower	Upper
61	100		
96	23.9	23.8	83.8
98	5.9	8.8	68.8#

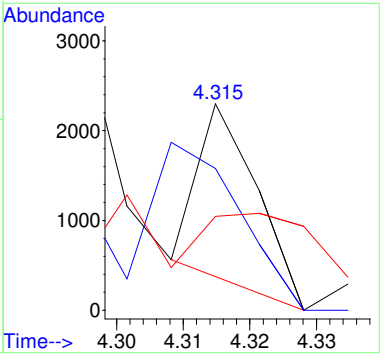


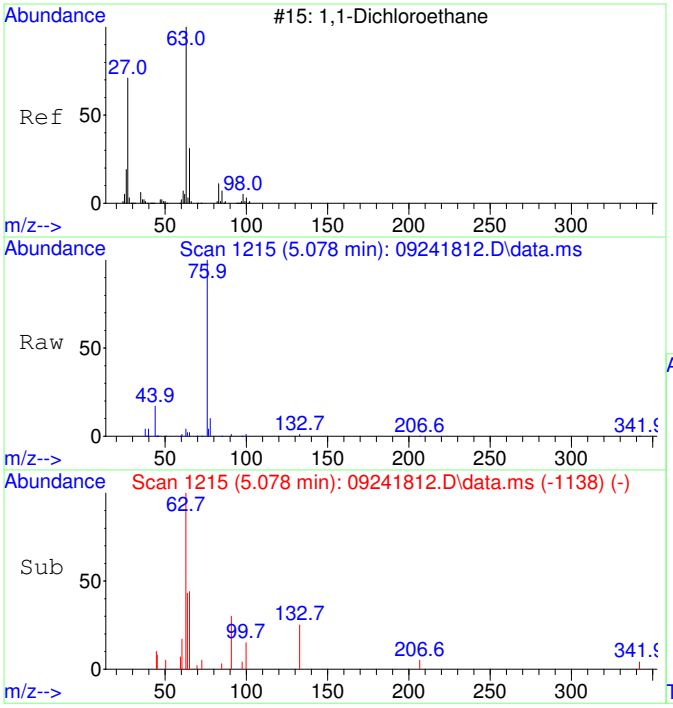


#27
trans-1,2-Dichloroethene SCAN
Concen: 396.88 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. 0.007 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 1108

Ion	Ratio	Lower	Upper
61	100		
96	245.5	37.9	97.9#
98	80.5	12.7	72.7#

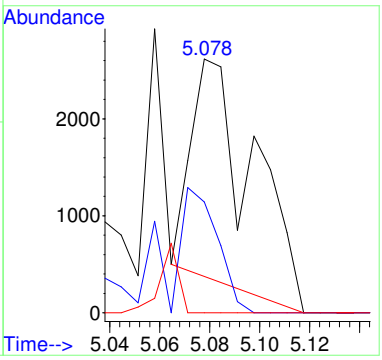


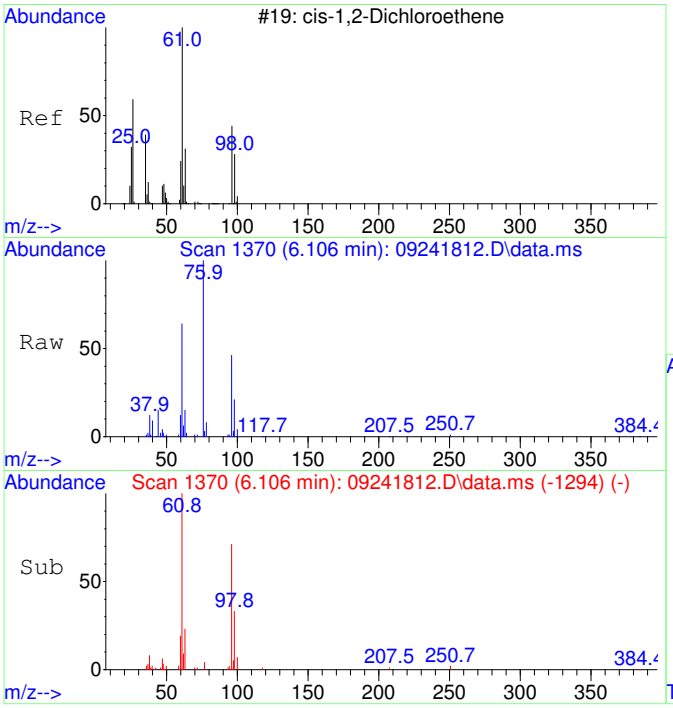


#28
1,1-Dichloroethane SCAN
Concen: 1086.28 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 63 Resp: 3858

Ion	Ratio	Lower	Upper
63	100		
65	51.8	7.5	67.5
83	9.6	0.0	34.3

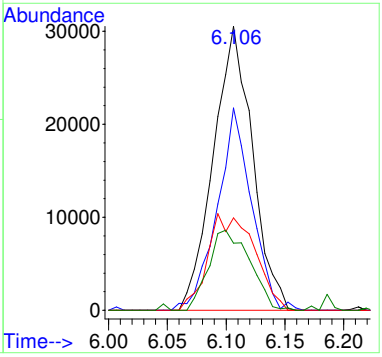


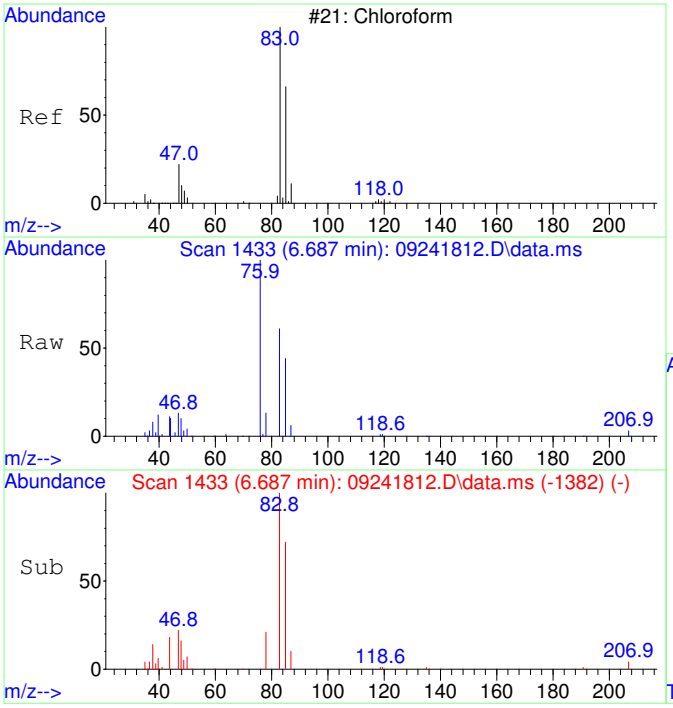


#29
cis-1,2-Dichloroethene SCAN
Concen: 22877.74 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. 0.007 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 70271

Ion	Ratio	Lower	Upper
61	100		
96	62.8	28.2	88.2
98	40.5	14.1	74.1
63	30.0	1.5	61.5

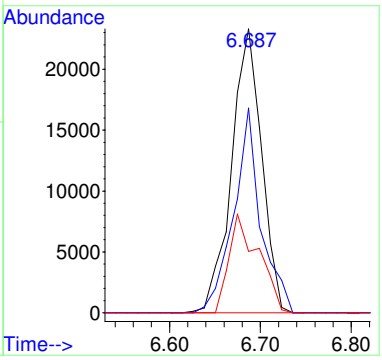


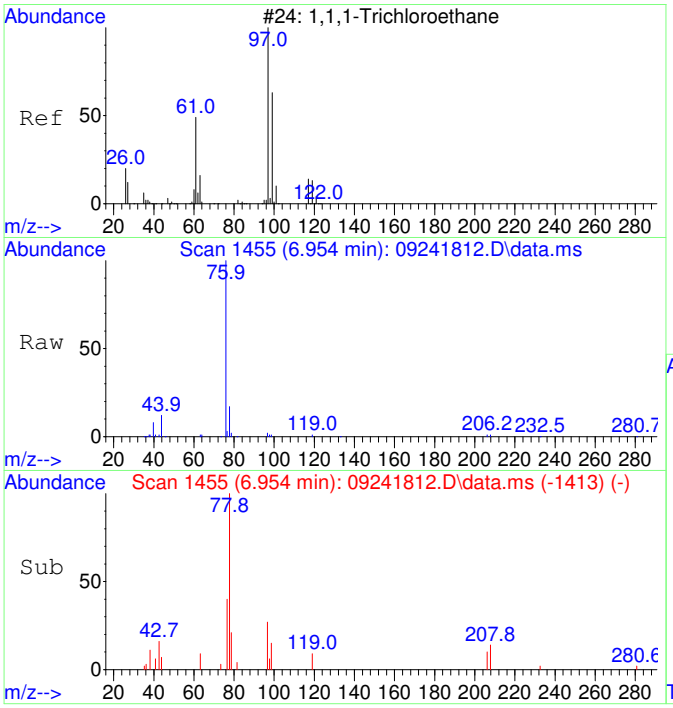


#30
Chloroform SCAN
Concen: 14282.06 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 83 Resp: 53846

Ion	Ratio	Lower	Upper
83	100		
85	65.0	32.6	92.6
47	34.0	0.0	57.9

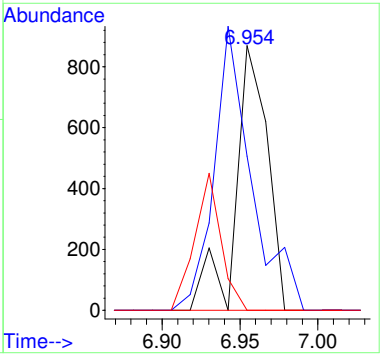


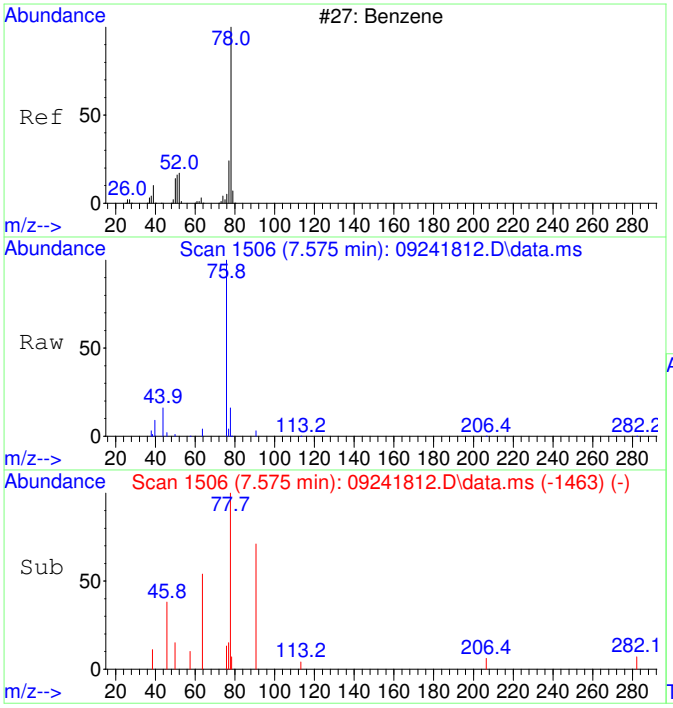


#31
1,1,1-Trichloroethane SCAN
Concen: 368.28 ug/L
RT: 6.954 min Scan# 1455
Delta R.T. 0.012 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 97 Resp: 1236

Ion	Ratio	Lower	Upper
97	100		
99	126.0	27.9	87.9#
61	0.0	15.1	75.1#

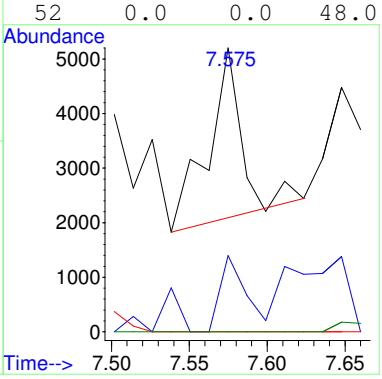


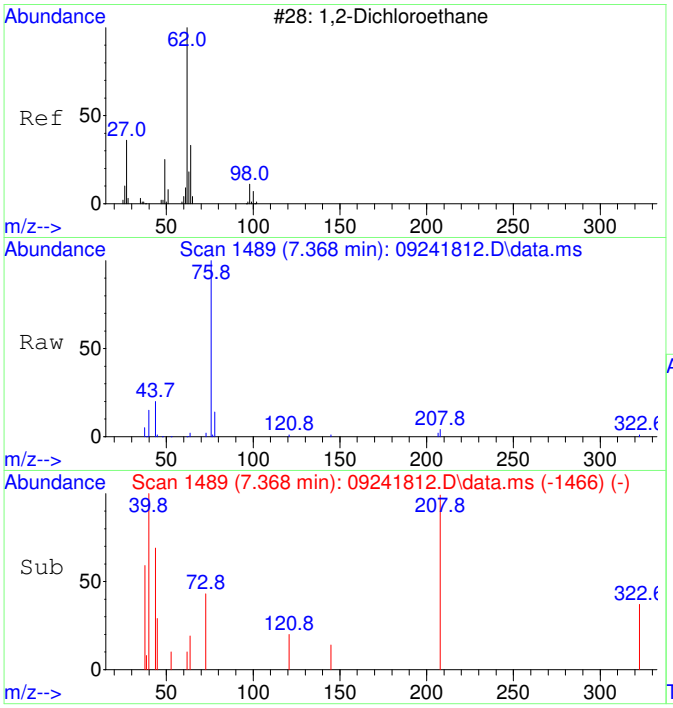


#33
Benzene SCAN
Concen: 481.90 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.024 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 78 Resp: 4823

Ion	Ratio	Lower	Upper
78	100		
77	29.6	3.0	63.0
51	0.0	0.0	56.4
52	0.0	0.0	48.0

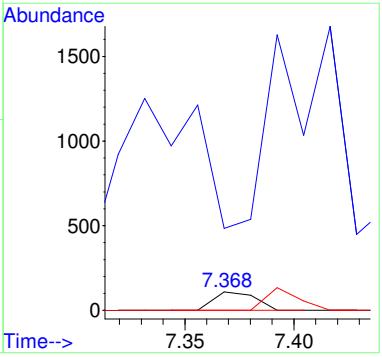


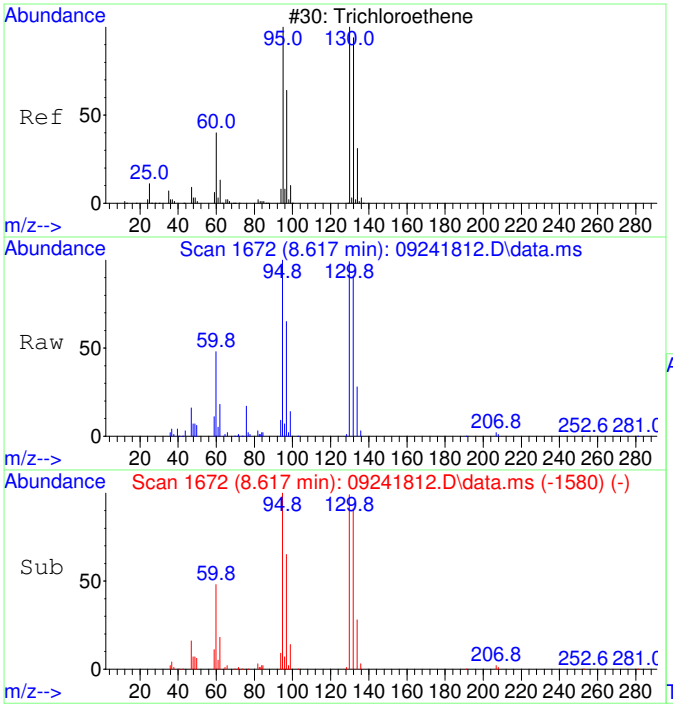


#34
1,2-Dichloroethane SCAN
Concen: 42.78 ug/L
RT: 7.368 min Scan# 1489
Delta R.T. -0.219 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 62 Resp: 146

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	0.0	10.4	70.4#

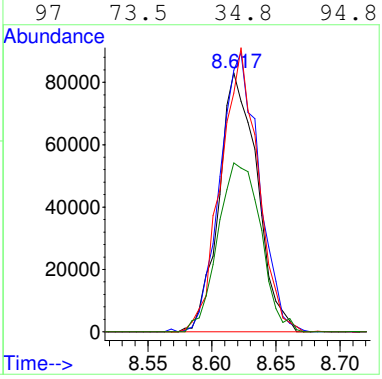


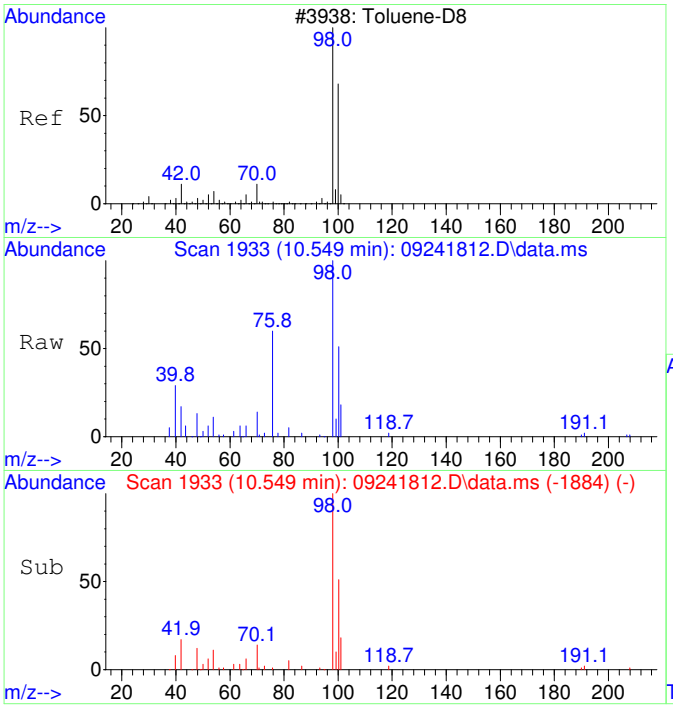


#35
Trichloroethene SCAN
Concen: 70251.35 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:130 Resp: 172053

Ion	Ratio	Lower	Upper
130	100		
95	110.1	70.5	130.5
132	106.1	63.8	123.8
97	73.5	34.8	94.8

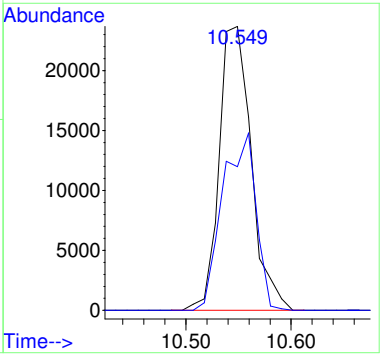


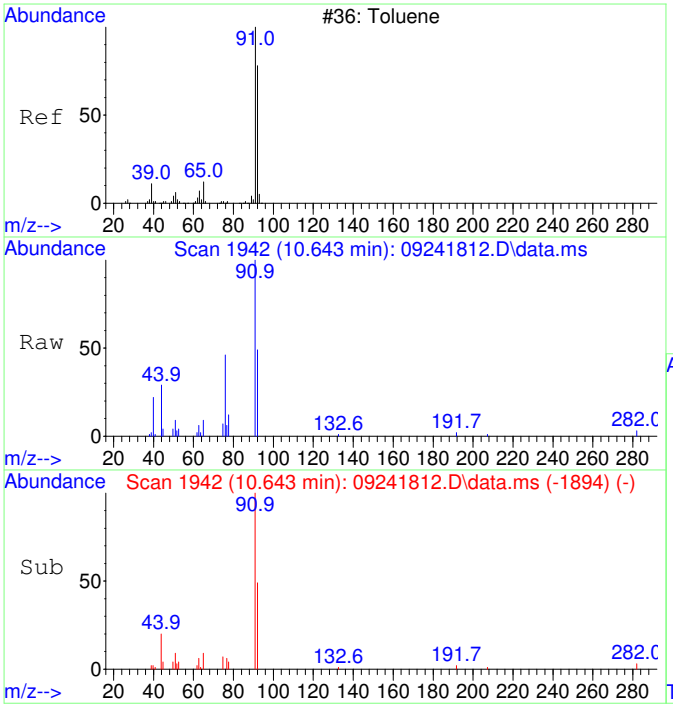


#36
Toluene-d8 SCAN
Concen: 5779.78 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 98 Resp: 50211

Ion	Ratio	Lower	Upper
98	100		
100	65.2	39.5	99.5

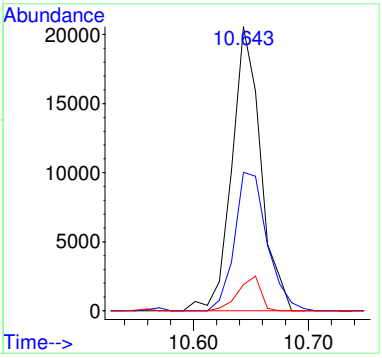


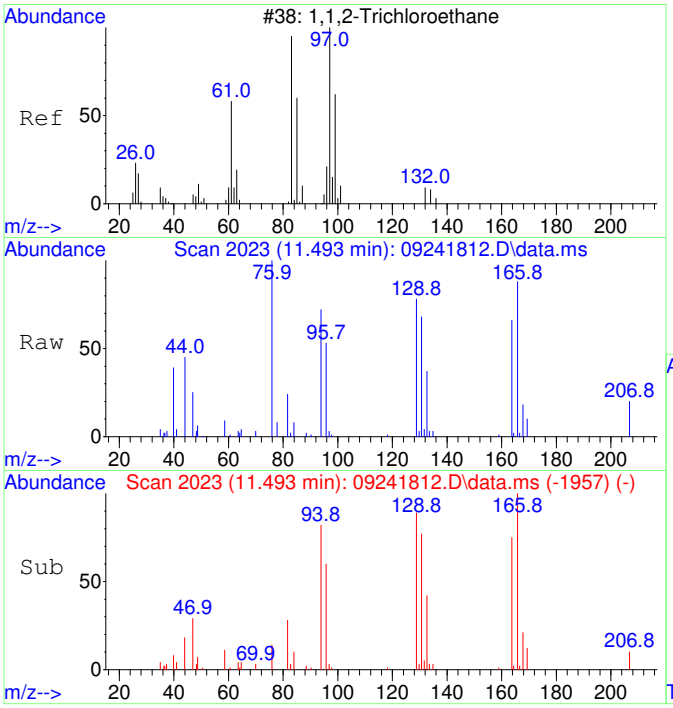


#37
Toluene SCAN
Concen: 3238.47 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 35938

Ion	Ratio	Lower	Upper
91	100		
92	55.2	26.6	86.6
65	9.6	0.0	42.3

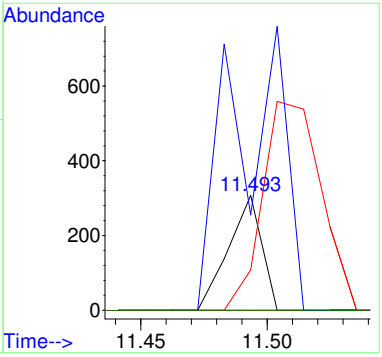


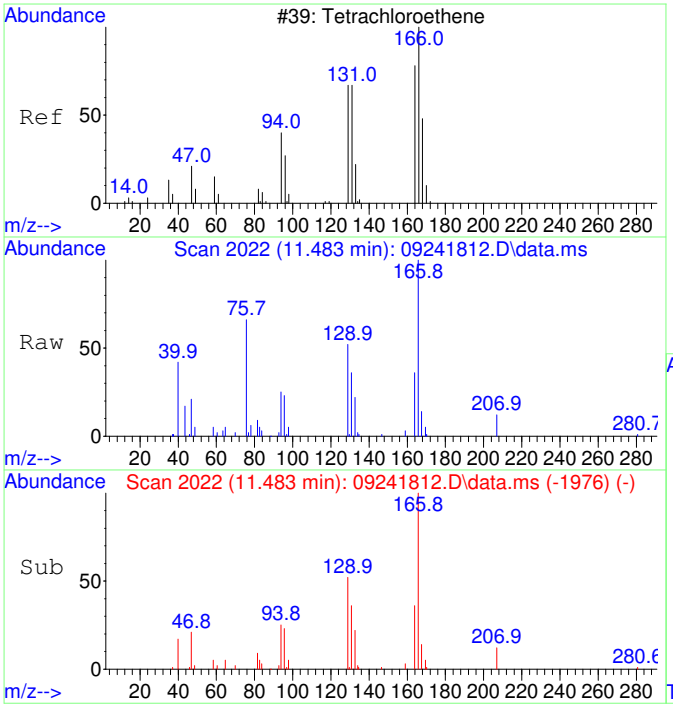


#38
1,1,2-Trichloroethane SCAN
Concen: 132.14 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. 0.189 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 97 Resp: 281

Ion	Ratio	Lower	Upper
97	100		
83	386.8	63.6	123.6#
61	319.9	44.9	104.9#
99	0.0	37.0	97.0#

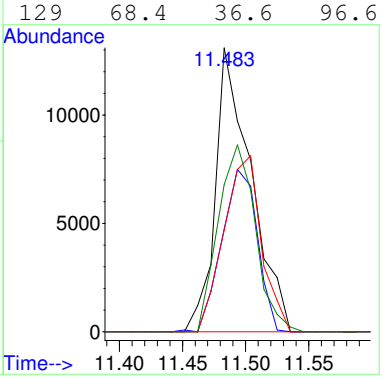


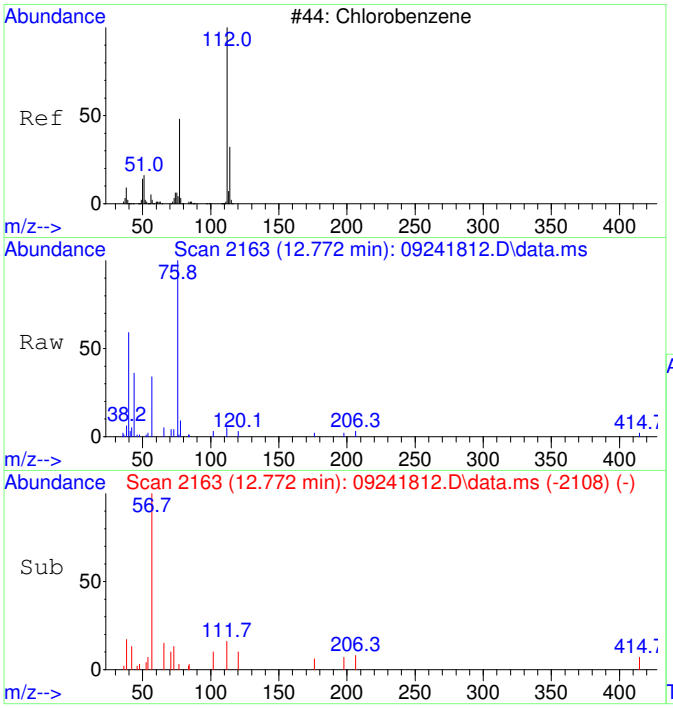


#39
Tetrachloroethene SCAN
Concen: 10589.91 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. -0.021 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:166 Resp: 25788

Ion	Ratio	Lower	Upper
166	100		
164	57.0	43.3	103.3
131	0.0	35.6	95.6#
129	68.4	36.6	96.6

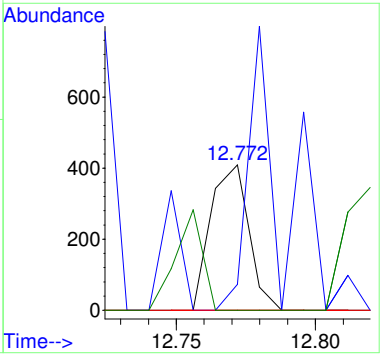


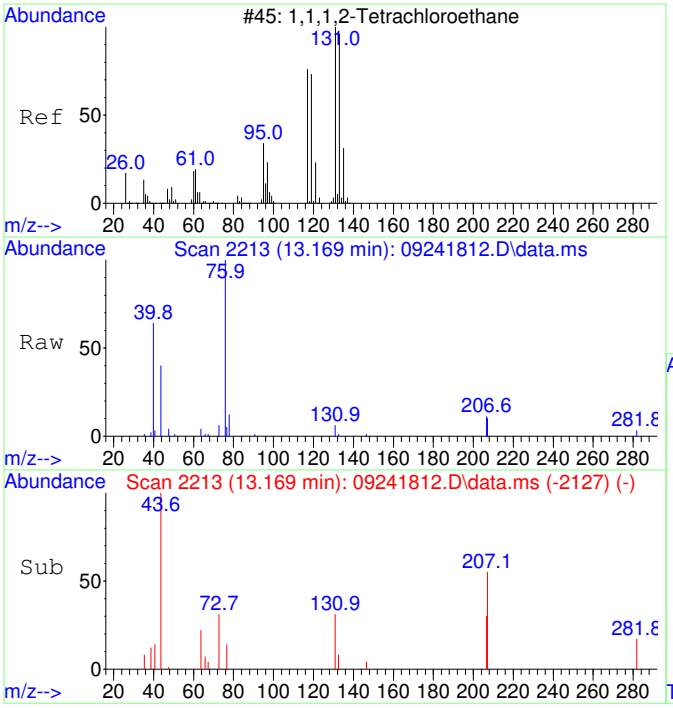


#40
Chlorobenzene SCAN
Concen: 57.79 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. -0.064 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:112 Resp: 389

Ion	Ratio	Lower	Upper
112	100		
77	187.1	28.4	88.4#
114	0.0	0.0	59.5
51	0.0	0.0	53.7

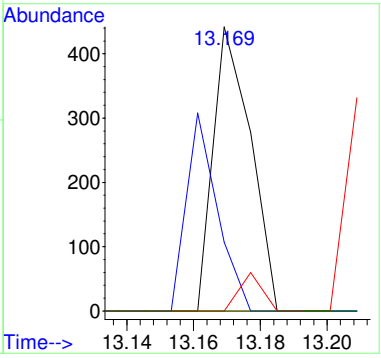


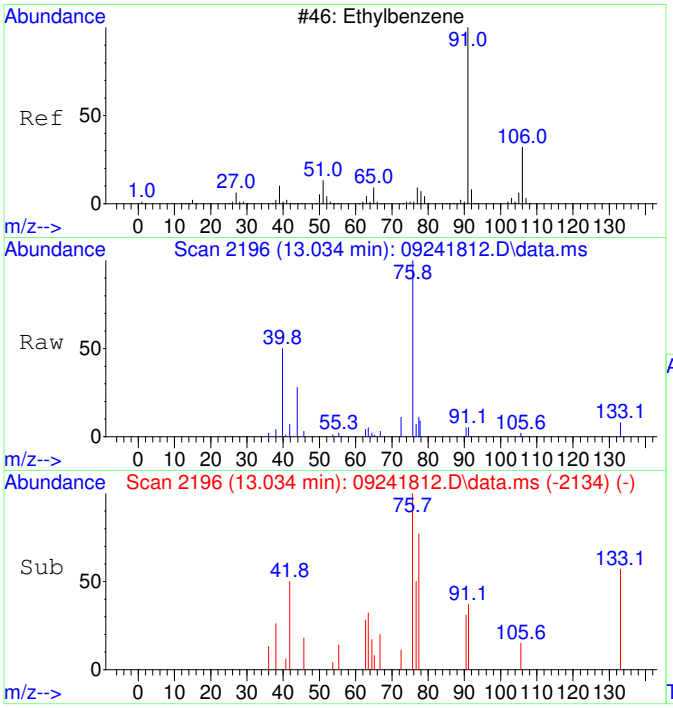


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 142.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.183 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:131 Resp: 343

Ion	Ratio	Lower	Upper
131	100		
133	57.7	56.7	116.7
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

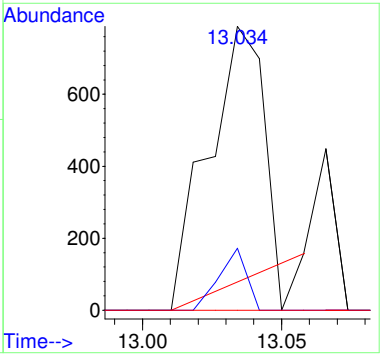


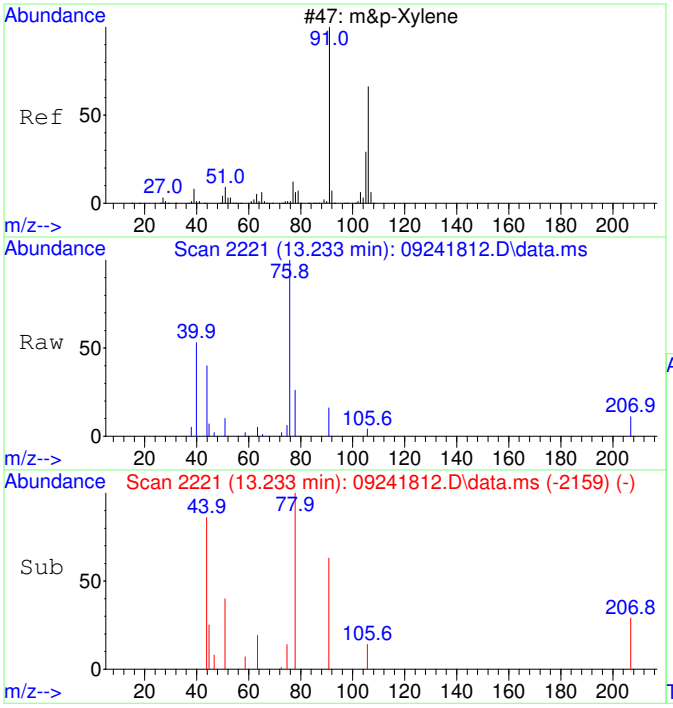


#42
Ethylbenzene SCAN
Concen: 74.35 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.008 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 959

Ion	Ratio	Lower	Upper
91	100		
106	12.4	3.2	63.2
51	0.0	0.0	40.1

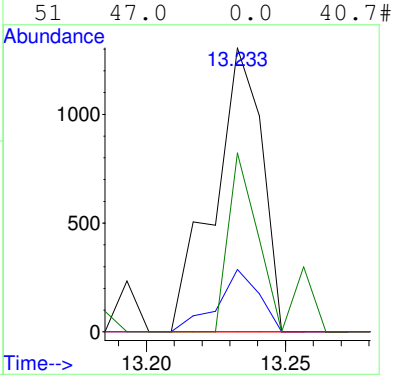


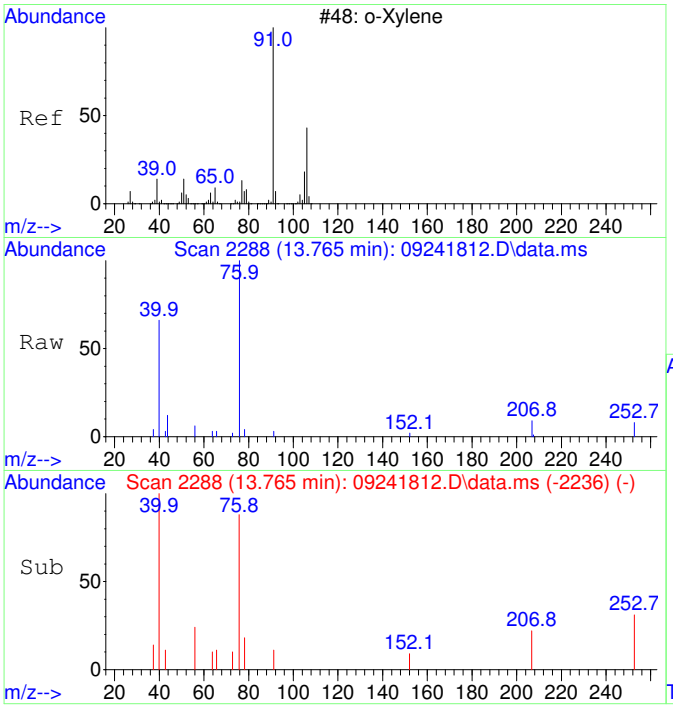


#43
m&p-Xylene SCAN
Concen: 87.69 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 1570

Ion	Ratio	Lower	Upper
91	100		
106	19.2	20.1	80.1#
105	0.0	0.0	51.1
51	47.0	0.0	40.7#

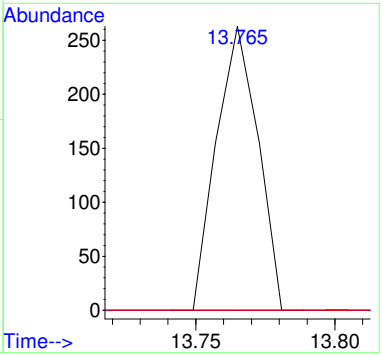


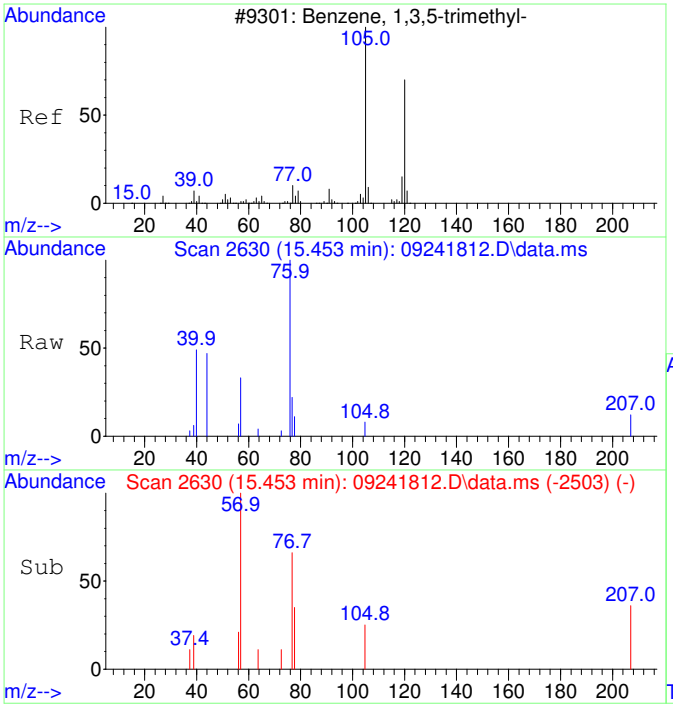


#44
o-Xylene SCAN
Concen: 26.79 ug/L
RT: 13.765 min Scan# 2288
Delta R.T. -0.087 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 273

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	0.0	0.0	55.2

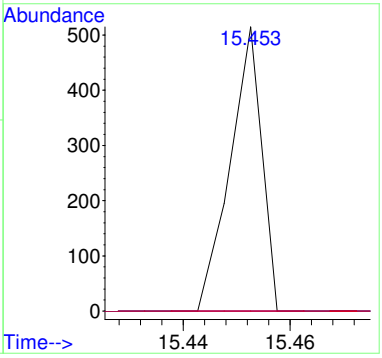


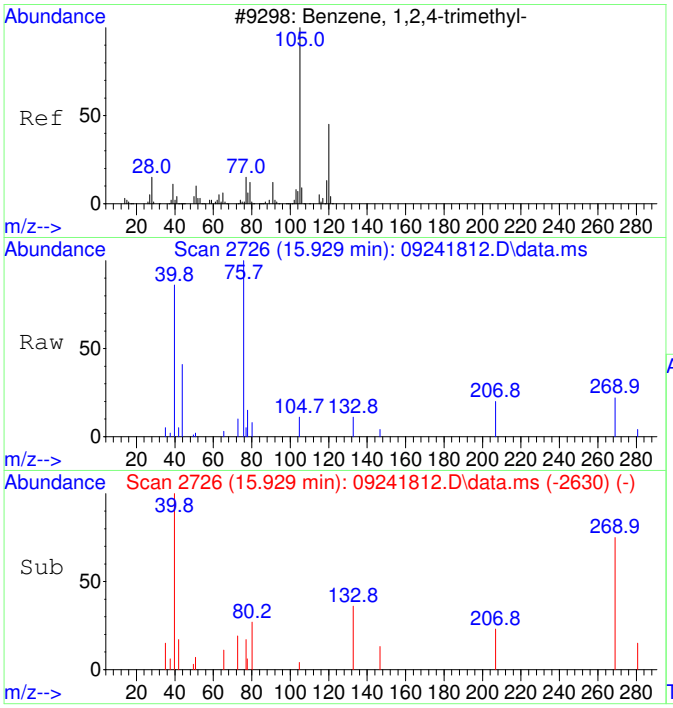


#46
1,3,5-Trimethylbenzene SCAN
Concen: 20.98 ug/L
RT: 15.453 min Scan# 2630
Delta R.T. 0.040 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:105 Resp: 212

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.8	76.8#
119	0.0	0.0	41.5

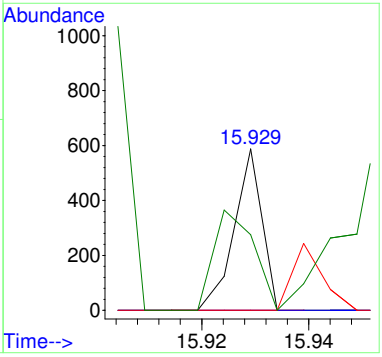




#47
1,2,4-Trimethylbenzene SCAN
Concen: 20.47 ug/L
RT: 15.929 min Scan# 2726
Delta R.T. -0.025 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:105 Resp: 212

Ion	Ratio	Lower	Upper
105	100		
120	0.0	15.4	75.4#
119	44.8	0.0	41.7#
77	90.1	0.0	42.0#



Quantitation Report (QT Reviewed)

Table of Contents

M.I. Performed By:
RH at 3:34 pm, Sep 26, 2018

M.I. Approved By:
KO at 12:08 pm, Sep 27, 2018

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241812.D
Acq On : 24 Sep 2018 16:36
InstName : AG5975C
Operator : RH
Sample : 1809026-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 17:19:47 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

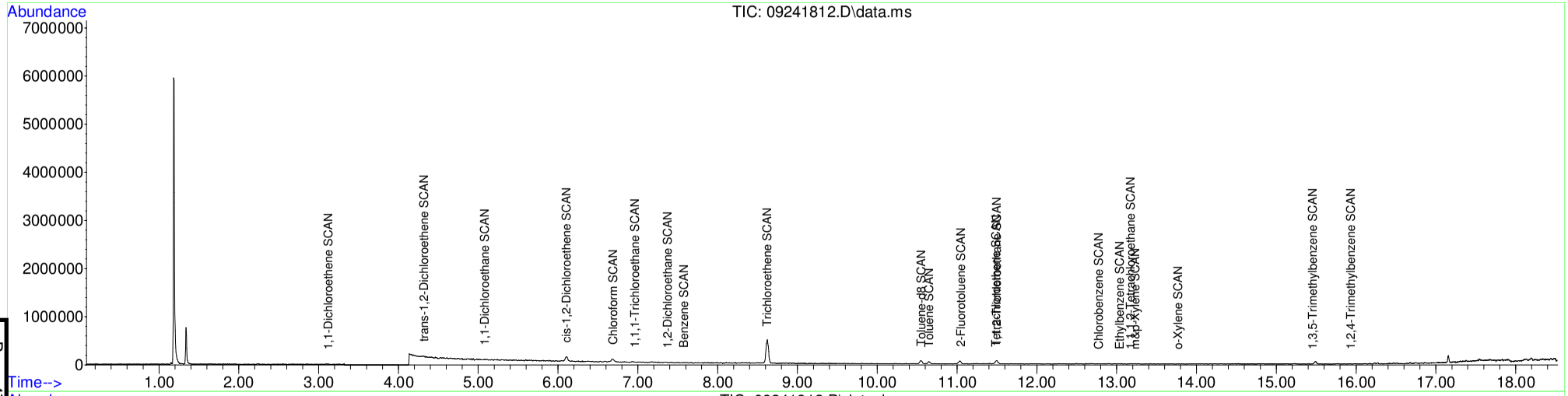
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 2-Fluorotoluene	11.033	109	82470	5000.00 ug/L	0.00	
System Monitoring Compounds						
12) Toluene-d8	10.540	98	68644	5124.36 ug/L	0.00	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.49%			
Target Compounds					Qvalue	
2] 1,1-Dichloroethene	3.101	61	5868m	1697.86 ug/L		
3] trans-1,2-Dichloroethene	4.303	61	5607	1520.46 ug/L	99	
4] 1,1-Dichloroethane	5.072	63	6554	1427.92 ug/L	98	
5] cis-1,2-Dichloroethene	6.101	61	94769	20929.67 ug/L	100	
6] Chloroform	6.676	83	75409	15466.81 ug/L	100	
7] 1,1,1-Trichloroethane	6.944	97	3322	692.24 ug/L	96	
8] Carbon tetrachloride	7.211	117	165	36.30 ug/L	93	
11] Trichloroethene	8.618	130	307019	84362.69 ug/L	100	oc
13] Toluene	10.645	91	44548	2480.31 ug/L	99	
15] Tetrachloroethene	11.495	166	38427	7593.79 ug/L	99	
18] Ethylbenzene	13.035	91	513	23.80 ug/L	77	
19] m&p-Xylene	13.234	91	1184	71.17 ug/L	88	
20] o-Xylene	13.846	91	549	31.16 ug/L	99	
25) 2-Fluorotoluene SCAN	11.042	109	52348	5447.27 ug/L	96	
26) 1,1-Dichloroethene SCAN	3.114	61	2311	963.72 ug/L #	53	
27) trans-1,2-Dichloroethe...	4.315	61	1108	396.88 ug/L #	1	
28) 1,1-Dichloroethane SCAN	5.078	63	3858	1086.28 ug/L	77	
29) cis-1,2-Dichloroethene...	6.106	61	70271	22877.74 ug/L	95	
30) Chloroform SCAN	6.687	83	53846	14282.06 ug/L	94	
31) 1,1,1-Trichloroethane ...	6.954	97	1236	368.28 ug/L #	18	
33) Benzene SCAN	7.575	78	4823	481.90 ug/L #	70	
34) 1,2-Dichloroethane SCAN	7.368	62	146	42.78 ug/L #	39	
35) Trichloroethene SCAN	8.617	130	172053	70251.35 ug/L	89	
36) Toluene-d8 SCAN	10.549	98	50211	5779.78 ug/L	95	
37) Toluene SCAN	10.643	91	35938	3238.47 ug/L	97	
38) 1,1,2-Trichloroethane ...	11.493	97	281	132.14 ug/L #	1	
39) Tetrachloroethene SCAN	11.483	166	25788	10589.91 ug/L #	66	
40) Chlorobenzene SCAN	12.772	112	389	57.79 ug/L #	1	
41) 1,1,1,2-Tetrachloroeth...	13.169	131	343	142.75 ug/L #	39	
42) Ethylbenzene SCAN	13.034	91	959	74.35 ug/L #	66	
43) m&p-Xylene SCAN	13.233	91	1570	87.69 ug/L #	48	
44) o-Xylene SCAN	13.765	91	273	26.79 ug/L #	34	
46) 1,3,5-Trimethylbenzene...	15.453	105	212	20.98 ug/L #	38	
47) 1,2,4-Trimethylbenzene...	15.929	105	212	20.47 ug/L #	5	

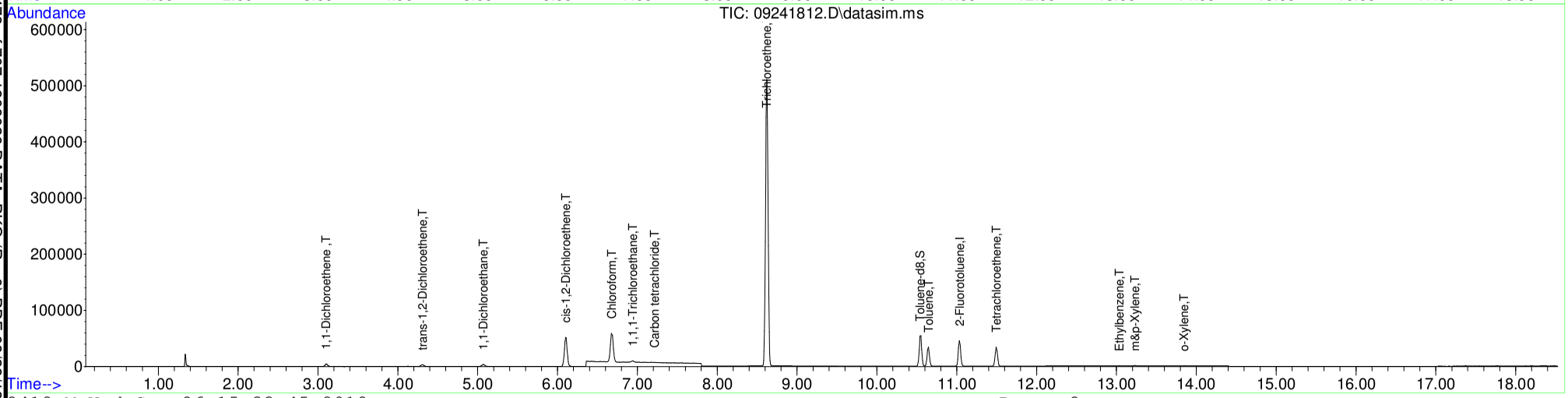
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241812.D
Acq On : 24 Sep 2018 16:36
InstName : AG5975C
Operator : RH
Sample : 1809026-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 17:19:47 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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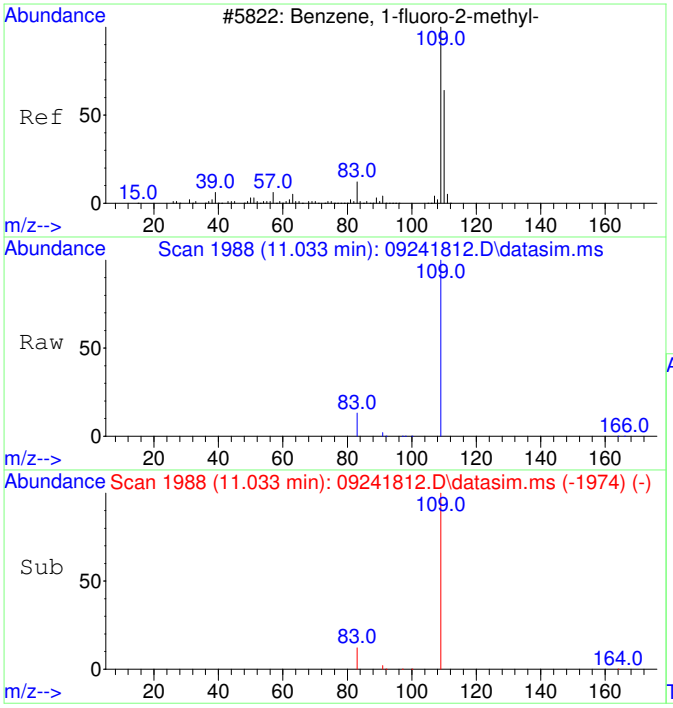
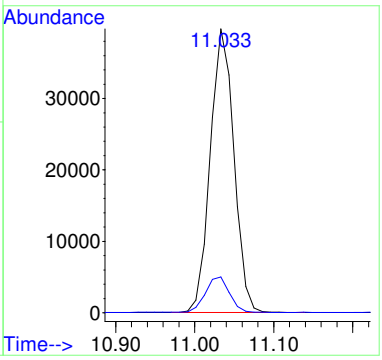
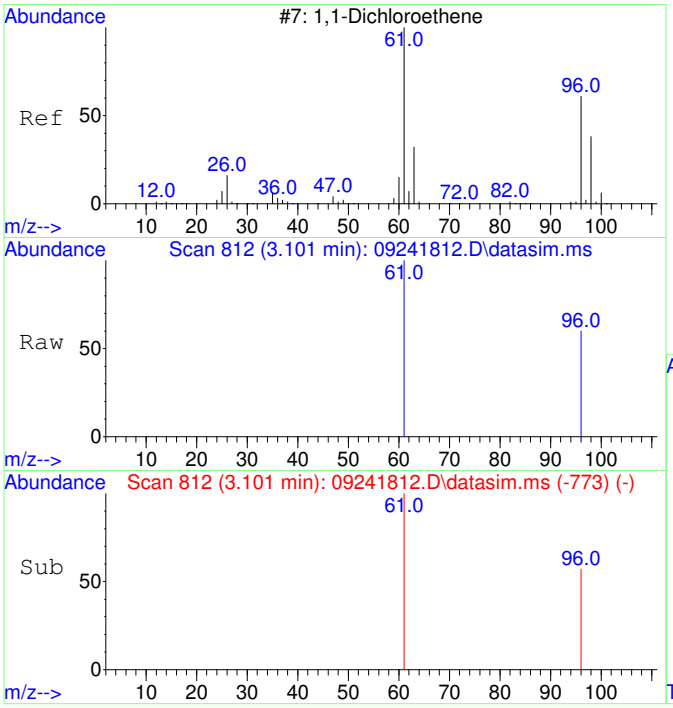


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:109 Resp: 82470

Ion	Ratio	Lower	Upper
109	100		
83	12.8	0.0	44.7

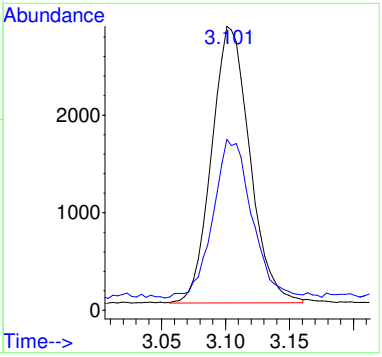


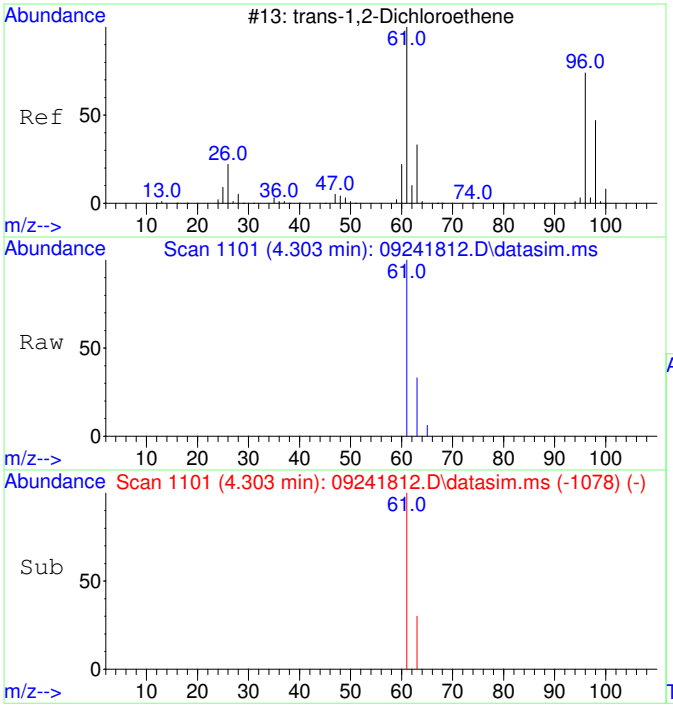


#2
1,1-Dichloroethene
Concen: 1697.86 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. -0.004 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 5868

Ion	Ratio	Lower	Upper
61	100		
96	63.3	28.7	88.7

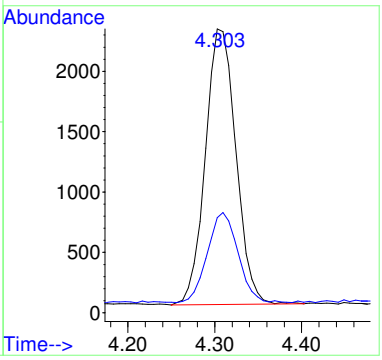


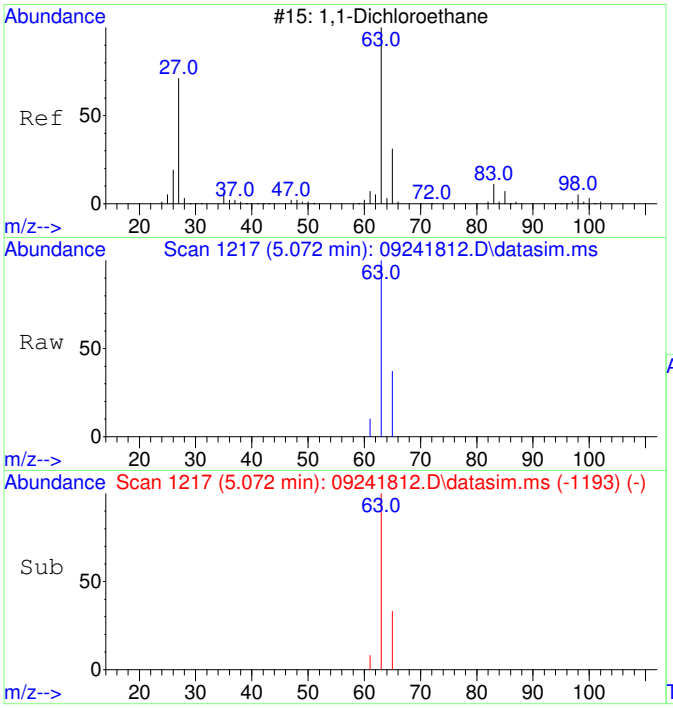


#3
trans-1,2-Dichloroethene
Concen: 1520.46 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 5607

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.0	62.0

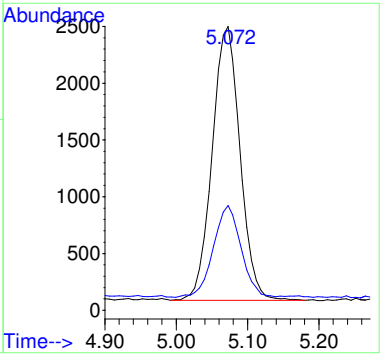


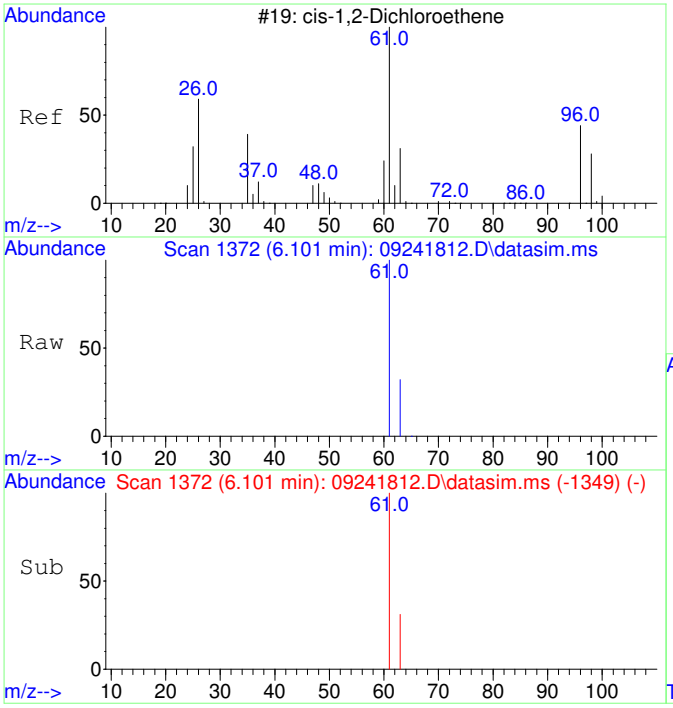


#4
1,1-Dichloroethane
Concen: 1427.92 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 63 Resp: 6554

Ion	Ratio	Lower	Upper
63	100		
65	32.8	1.5	61.5

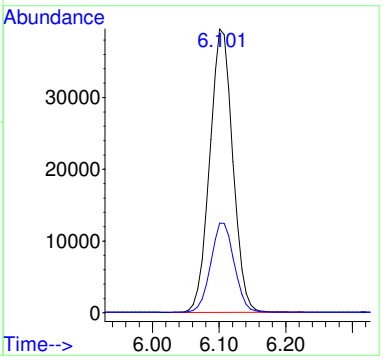


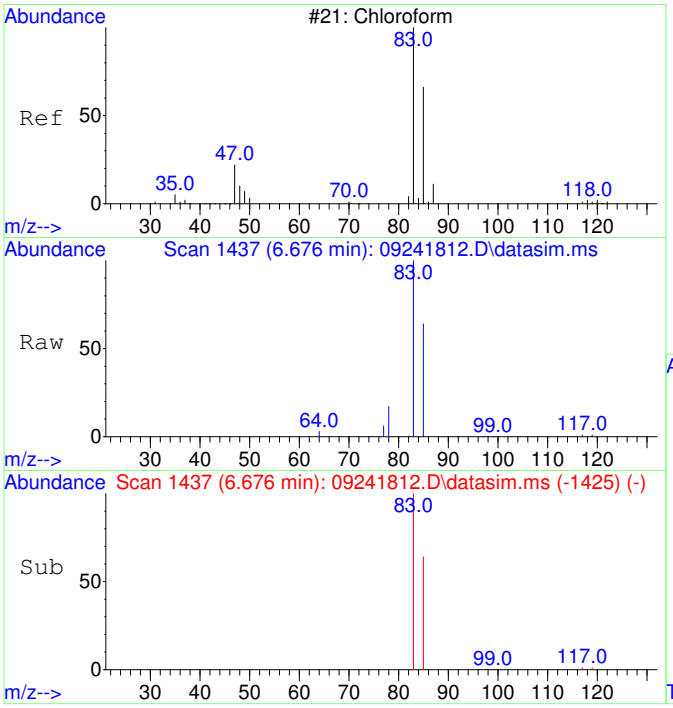


#5
cis-1,2-Dichloroethene
Concen: 20929.67 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 94769

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.2	62.2

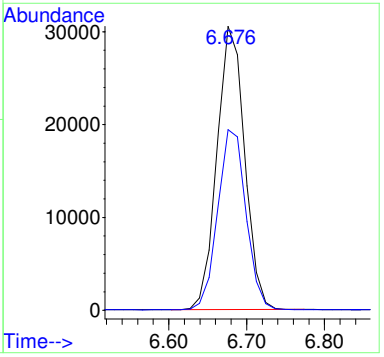


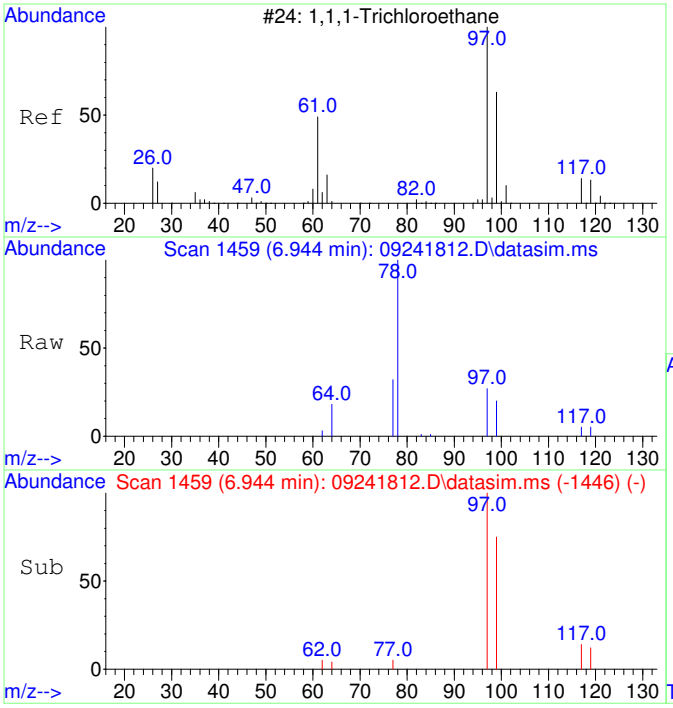


#6
Chloroform
Concen: 15466.81 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 83 Resp: 75409

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.8	94.8

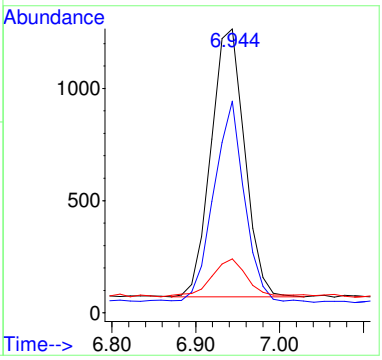


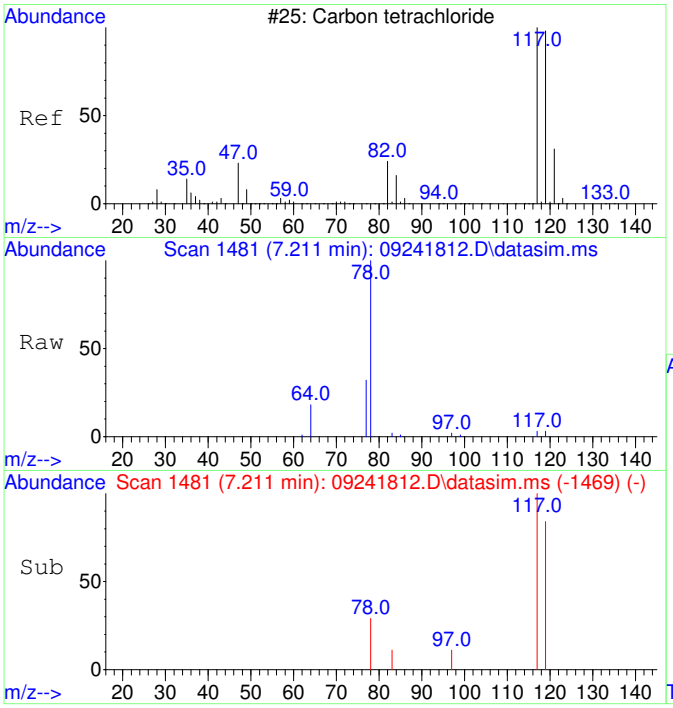


#7
1,1,1-Trichloroethane
Concen: 692.24 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 97 Resp: 3322

Ion	Ratio	Lower	Upper
97	100		
99	67.6	34.6	94.6
117	14.9	0.0	42.9

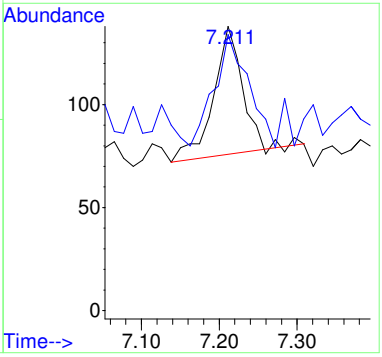


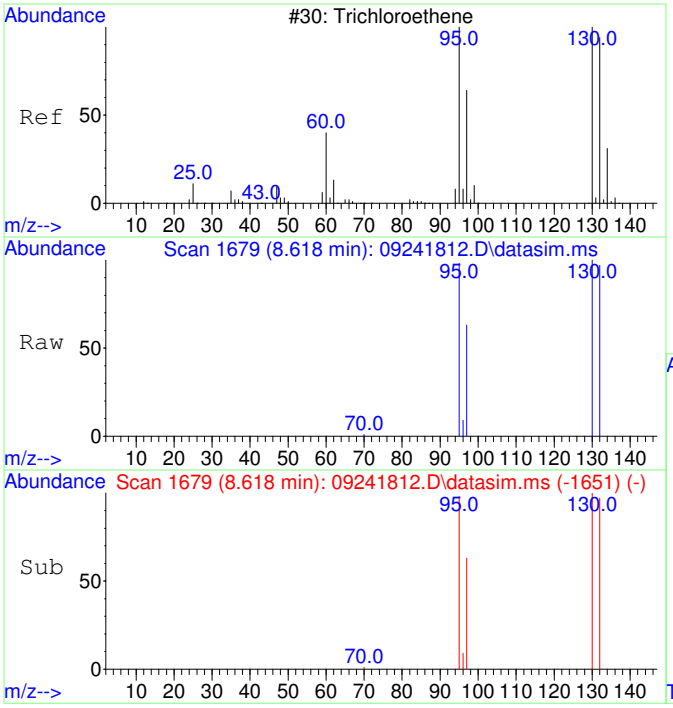


#8
Carbon tetrachloride
Concen: 36.30 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:117 Resp: 165

Ion	Ratio	Lower	Upper
117	100		
119	102.4	65.9	125.9

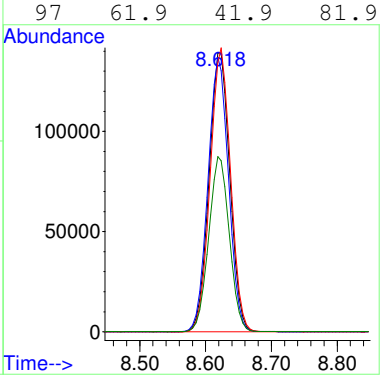


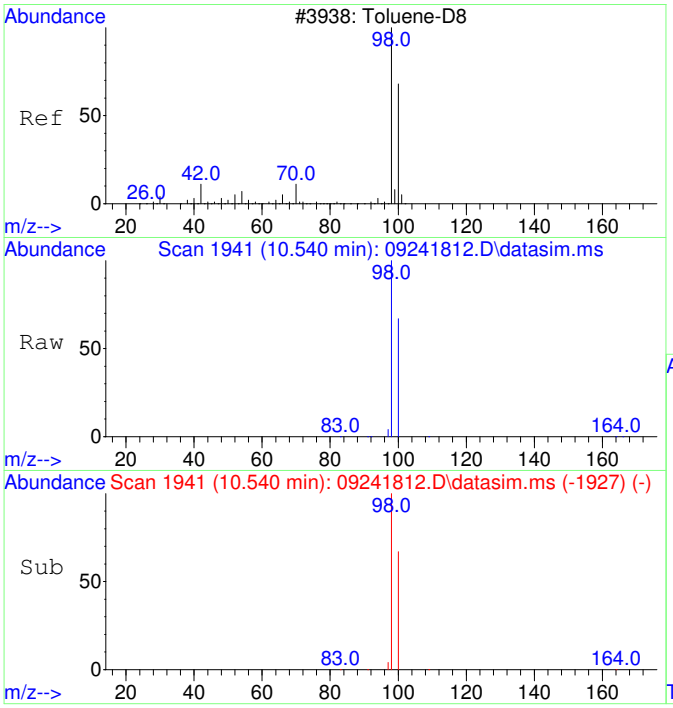


#11
Trichloroethene
Concen: 84362.69 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:130 Resp: 307019

Ion	Ratio	Lower	Upper
130	100		
95	96.7	66.0	126.0
132	99.2	78.8	118.8
97	61.9	41.9	81.9

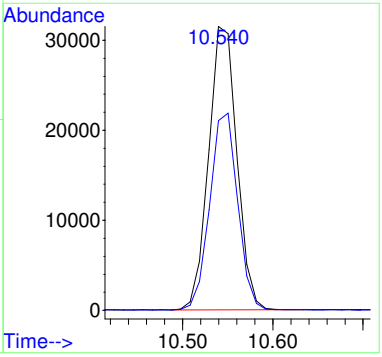


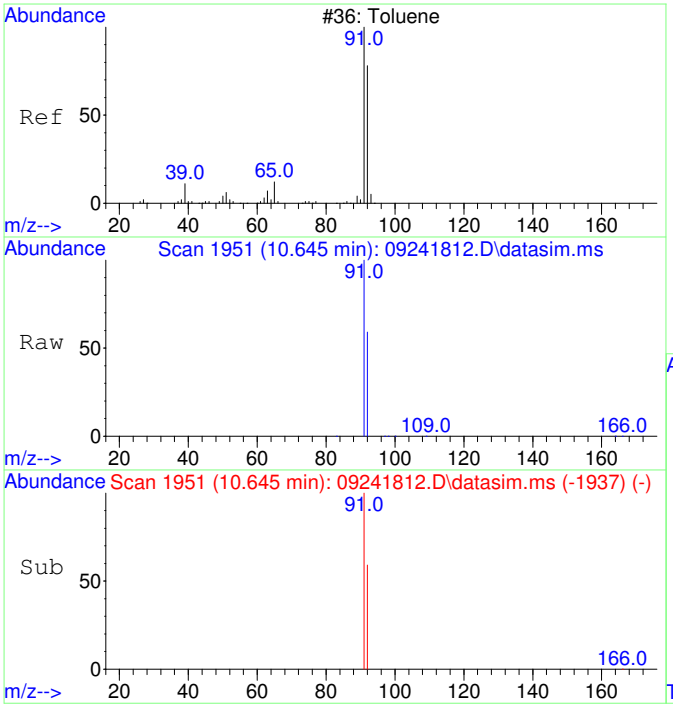


#12
Toluene-d8
Concen: 5124.36 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 98 Resp: 68644

Ion	Ratio	Lower	Upper
98	100		
100	68.5	38.7	98.7

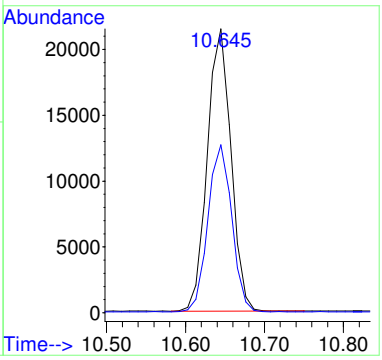


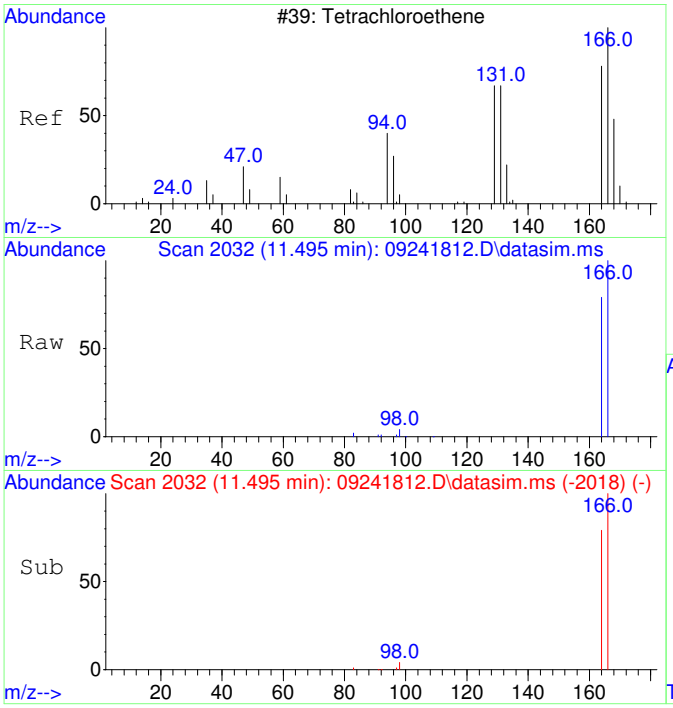


#13
Toluene
Concen: 2480.31 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 44548

Ion	Ratio	Lower	Upper
91	100		
92	59.4	30.0	90.0

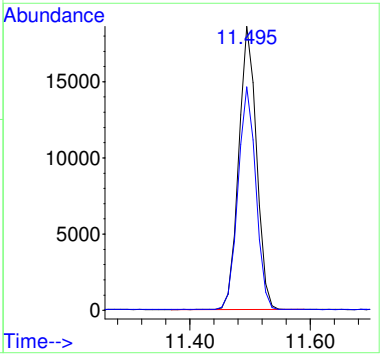


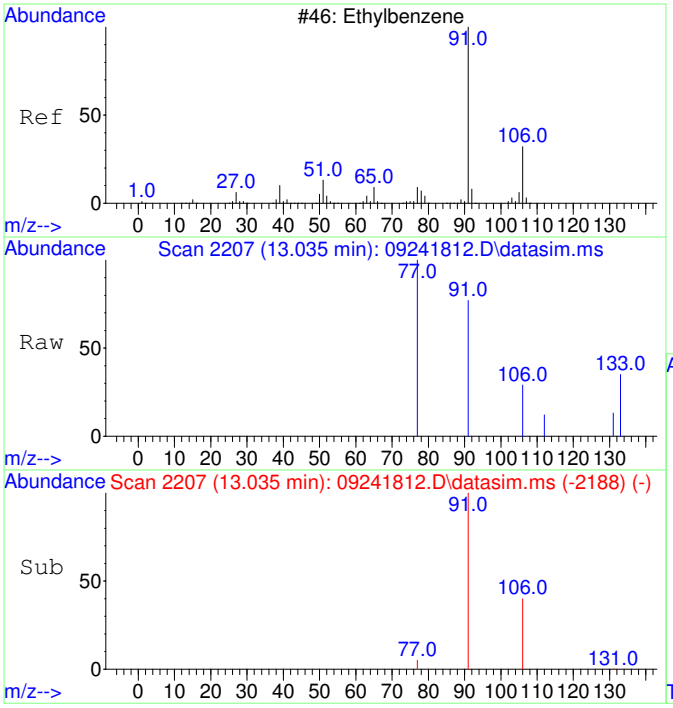


#15
Tetrachloroethene
Concen: 7593.79 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:166 Resp: 38427

Ion	Ratio	Lower	Upper
166	100		
164	78.9	47.8	107.8

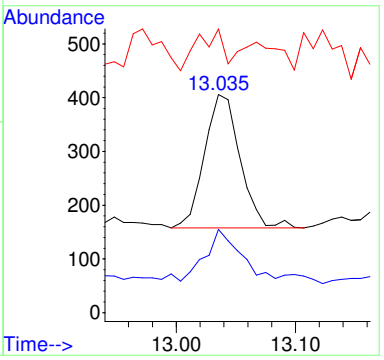


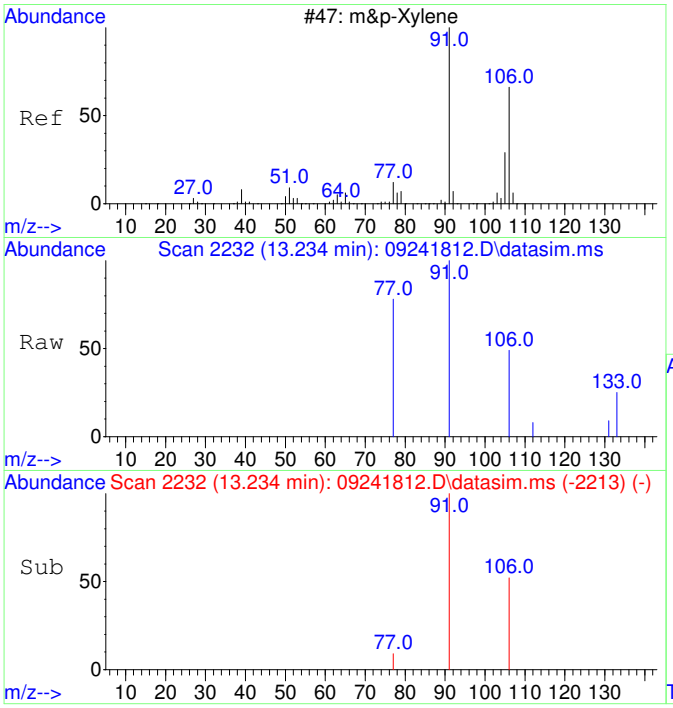


#18
Ethylbenzene
Concen: 23.80 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 513

Ion	Ratio	Lower	Upper
91	100		
106	42.1	2.8	62.8
77	25.7	0.0	38.6

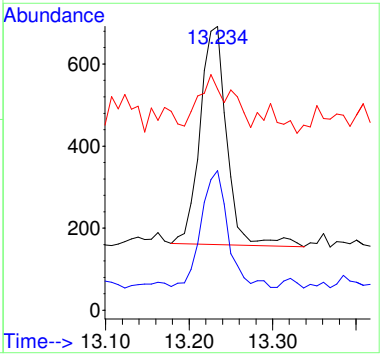


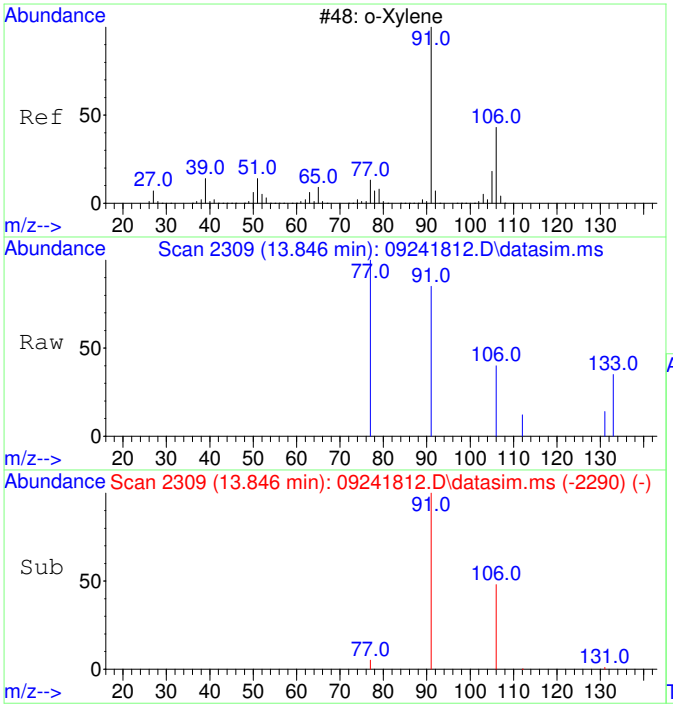


#19
m&p-Xylene
Concen: 71.17 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 1184

Ion	Ratio	Lower	Upper
91	100		
106	52.8	21.2	81.2
77	32.7	0.0	42.9

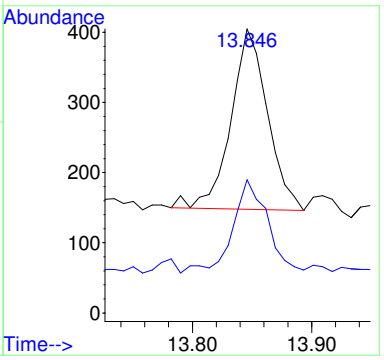


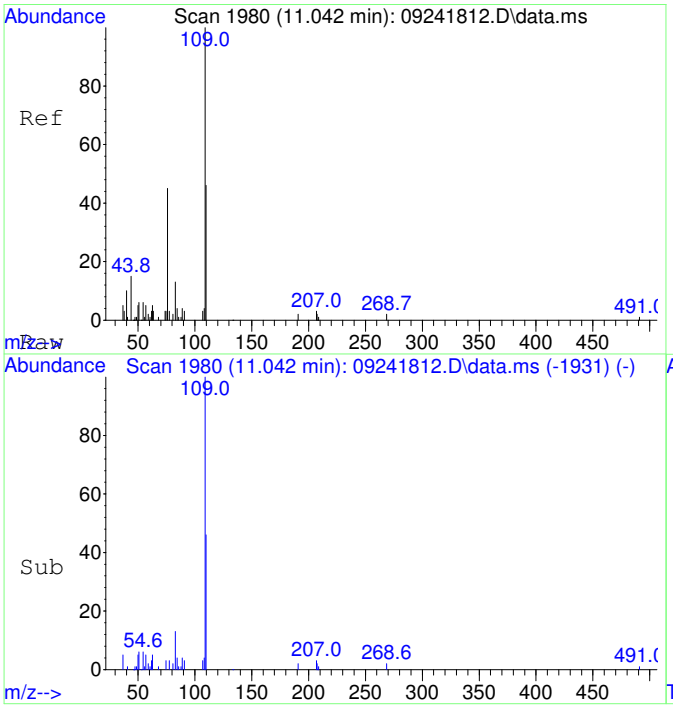


#20
o-Xylene
Concen: 31.16 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 549

Ion	Ratio	Lower	Upper
91	100		
106	49.2	18.3	78.3

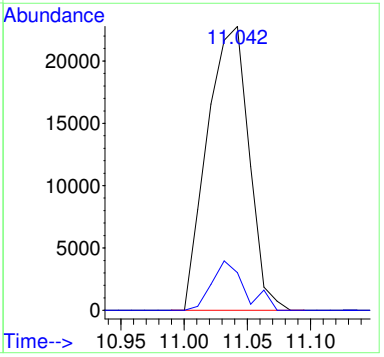


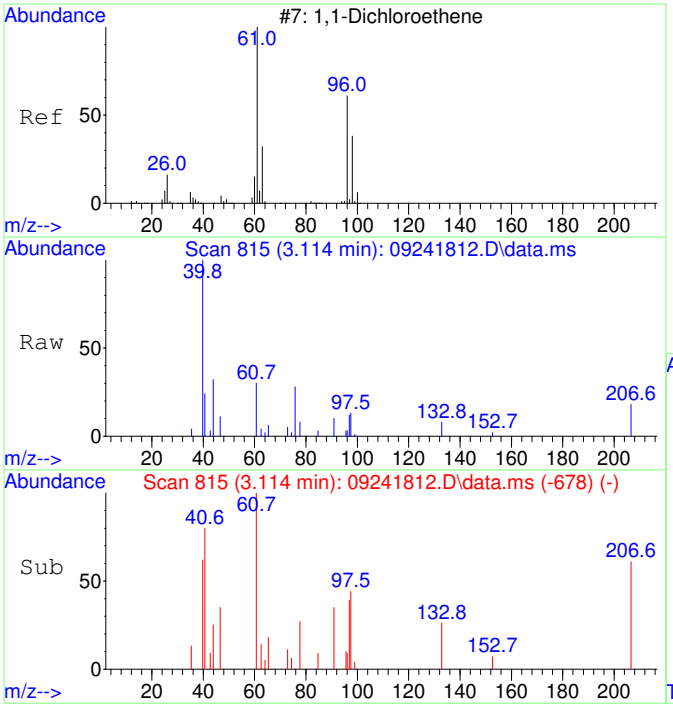


#25
2-Fluorotoluene SCAN
Concen: 5447.27 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.011 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:109 Resp: 52348

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	45.7

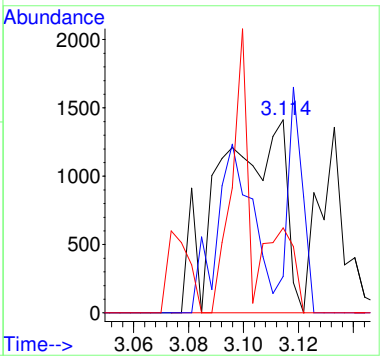


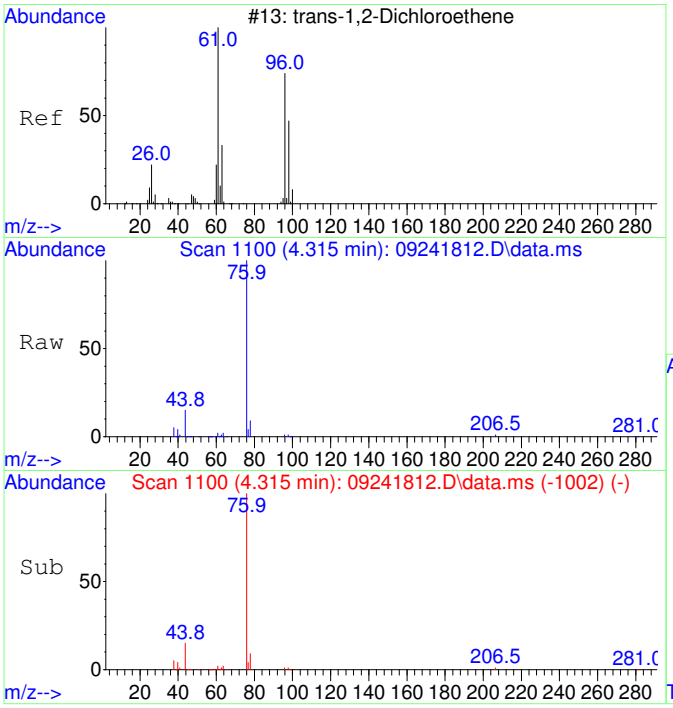


#26
1,1-Dichloroethene SCAN
Concen: 963.72 ug/L
RT: 3.114 min Scan# 815
Delta R.T. 0.008 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 2311

Ion	Ratio	Lower	Upper
61	100		
96	23.9	23.8	83.8
98	5.9	8.8	68.8#

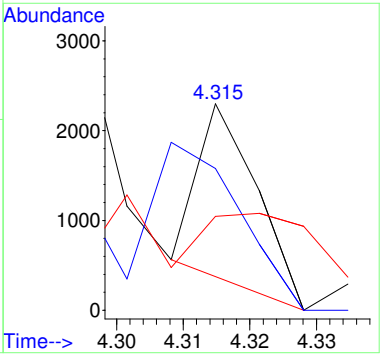


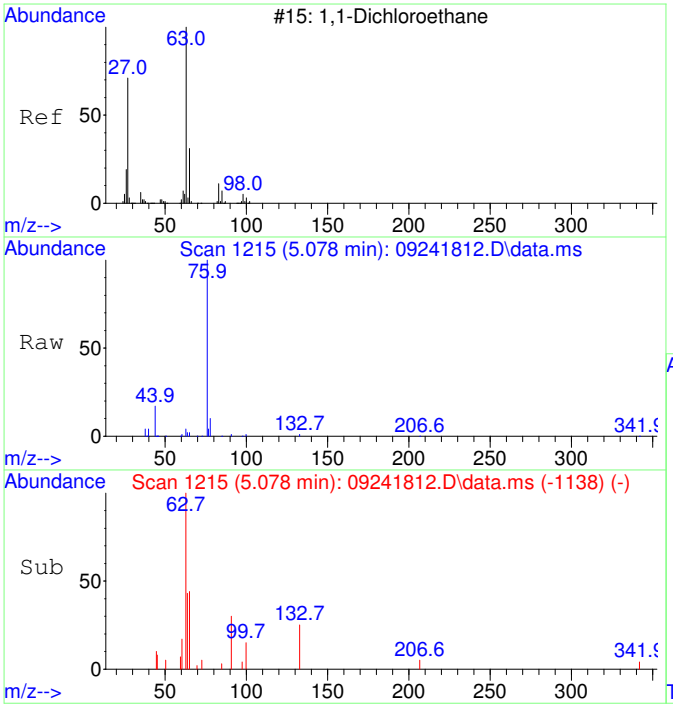


#27
trans-1,2-Dichloroethene SCAN
Concen: 396.88 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. 0.007 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 1108

Ion	Ratio	Lower	Upper
61	100		
96	245.5	37.9	97.9#
98	80.5	12.7	72.7#

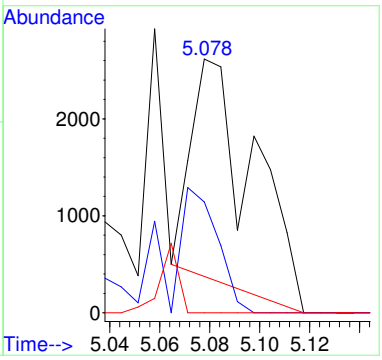


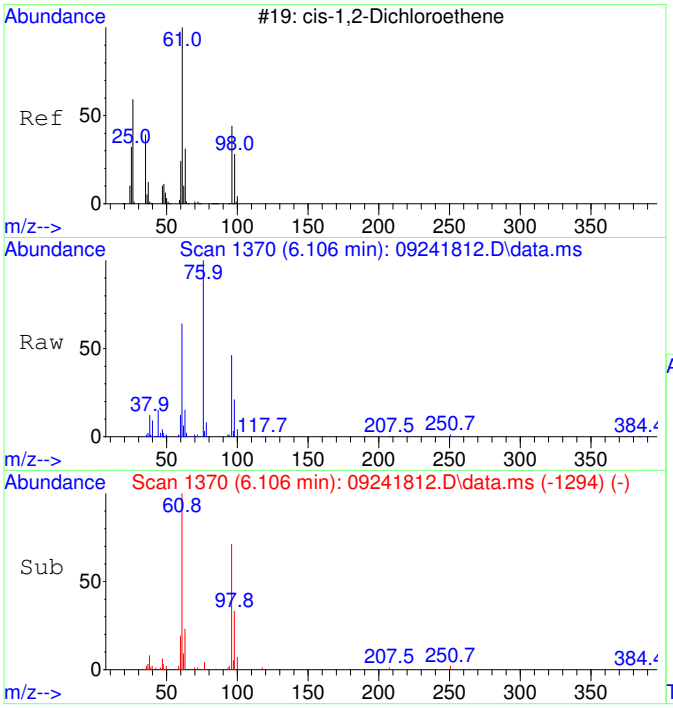


#28
1,1-Dichloroethane SCAN
Concen: 1086.28 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 63 Resp: 3858

Ion	Ratio	Lower	Upper
63	100		
65	51.8	7.5	67.5
83	9.6	0.0	34.3

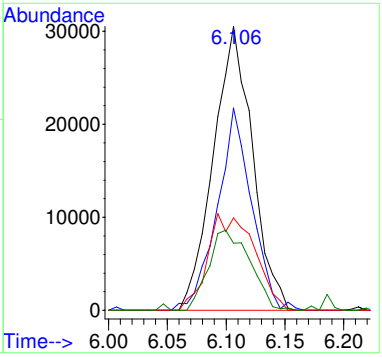


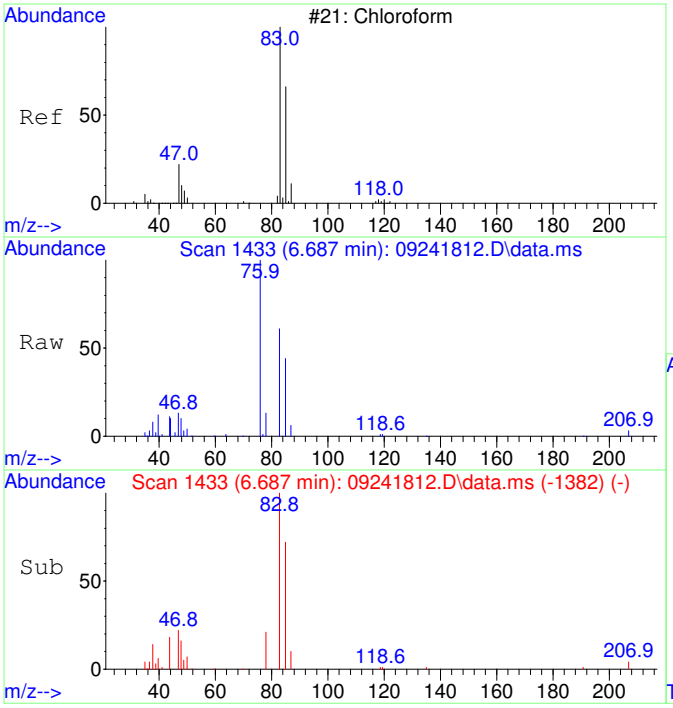


#29
cis-1,2-Dichloroethene SCAN
Concen: 22877.74 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. 0.007 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 61 Resp: 70271

Ion	Ratio	Lower	Upper
61	100		
96	62.8	28.2	88.2
98	40.5	14.1	74.1
63	30.0	1.5	61.5

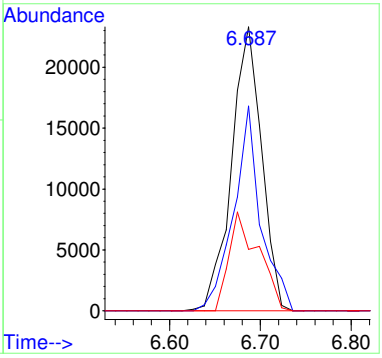


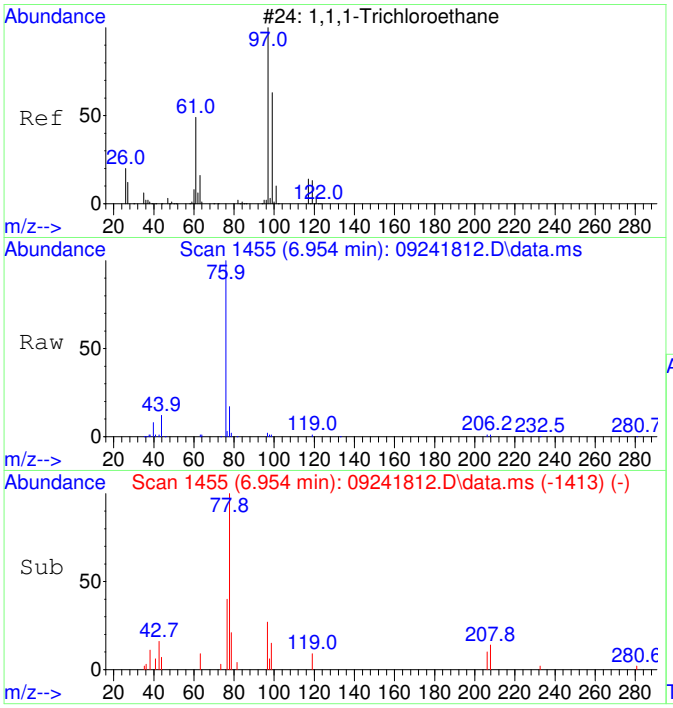


#30
Chloroform SCAN
Concen: 14282.06 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 83 Resp: 53846

Ion	Ratio	Lower	Upper
83	100		
85	65.0	32.6	92.6
47	34.0	0.0	57.9

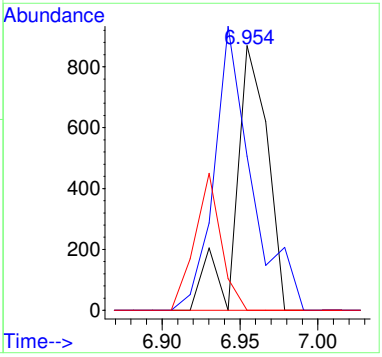


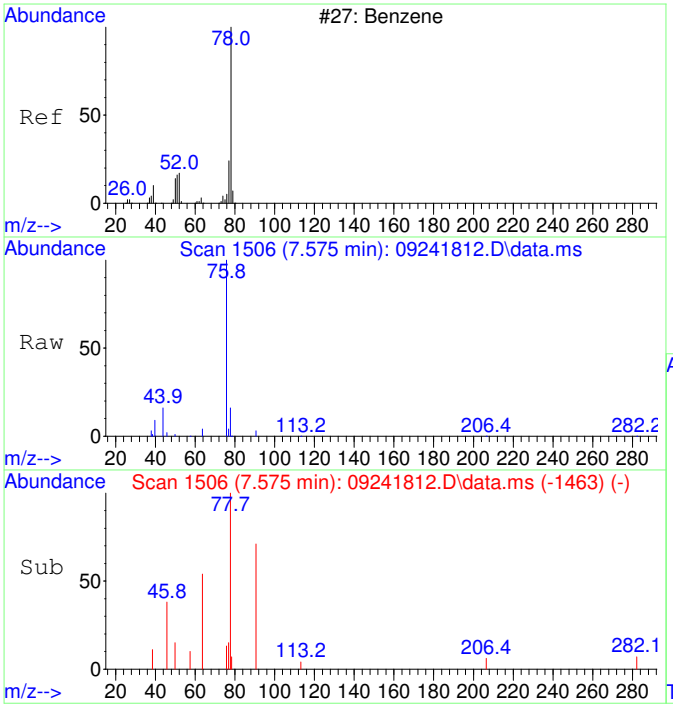


#31
1,1,1-Trichloroethane SCAN
Concen: 368.28 ug/L
RT: 6.954 min Scan# 1455
Delta R.T. 0.012 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 97 Resp: 1236

Ion	Ratio	Lower	Upper
97	100		
99	126.0	27.9	87.9#
61	0.0	15.1	75.1#

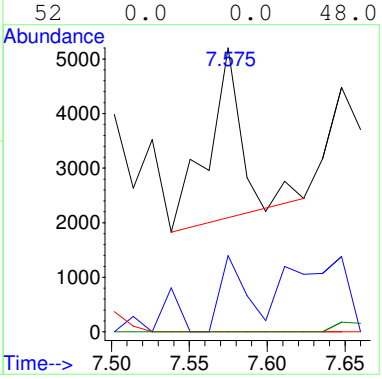


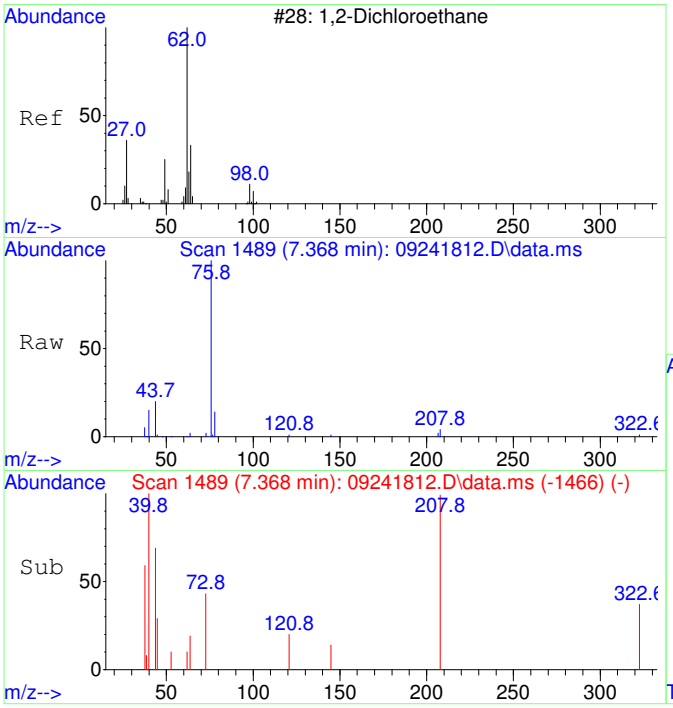


#33
Benzene SCAN
Concen: 481.90 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.024 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 78 Resp: 4823

Ion	Ratio	Lower	Upper
78	100		
77	29.6	3.0	63.0
51	0.0	0.0	56.4
52	0.0	0.0	48.0

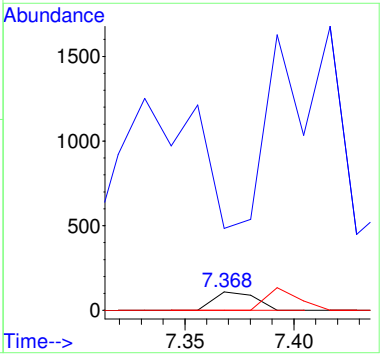


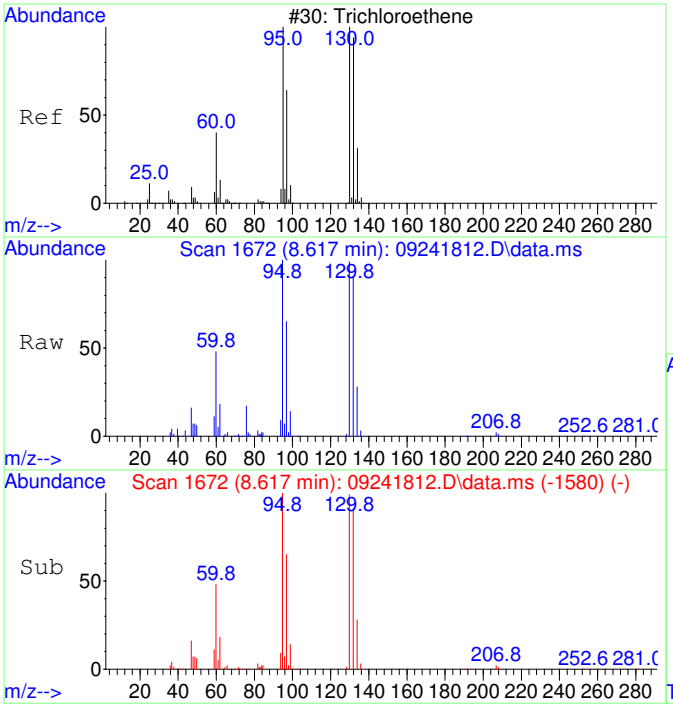


#34
1,2-Dichloroethane SCAN
Concen: 42.78 ug/L
RT: 7.368 min Scan# 1489
Delta R.T. -0.219 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 62 Resp: 146

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	0.0	10.4	70.4#

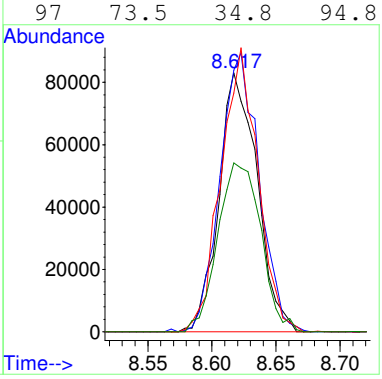


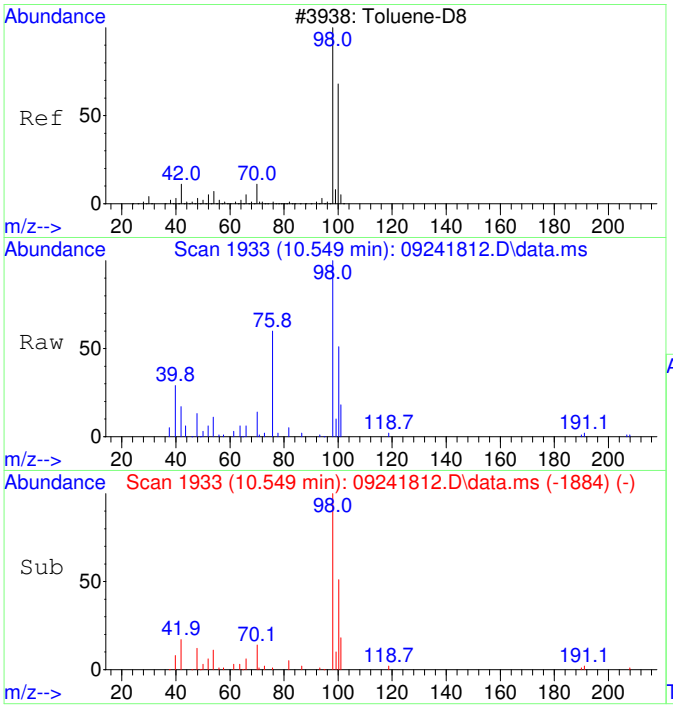


#35
Trichloroethene SCAN
Concen: 70251.35 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:130 Resp: 172053

Ion	Ratio	Lower	Upper
130	100		
95	110.1	70.5	130.5
132	106.1	63.8	123.8
97	73.5	34.8	94.8

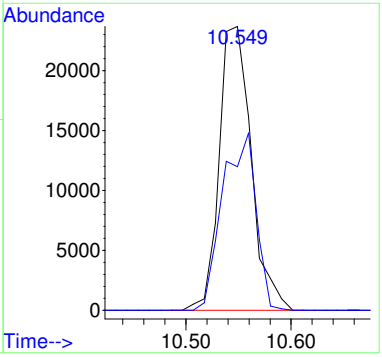


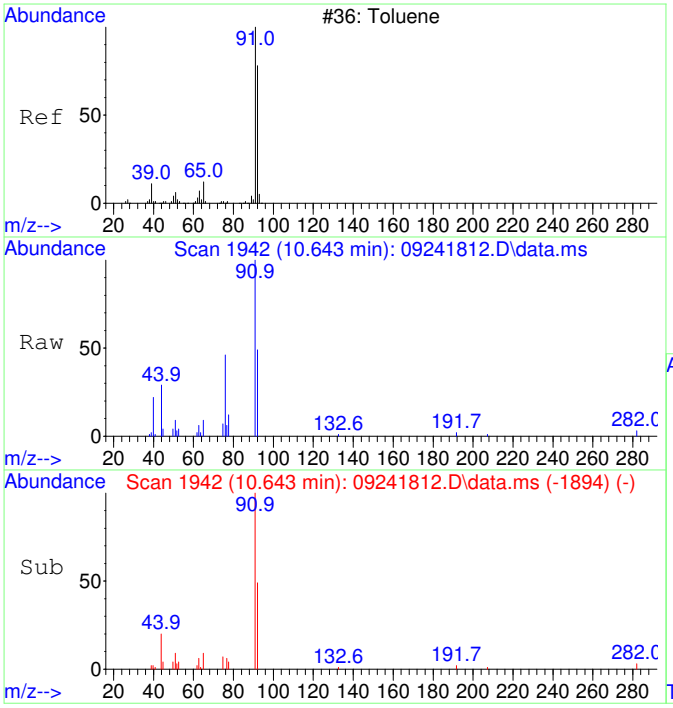


#36
Toluene-d8 SCAN
Concen: 5779.78 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 98 Resp: 50211

Ion	Ratio	Lower	Upper
98	100		
100	65.2	39.5	99.5

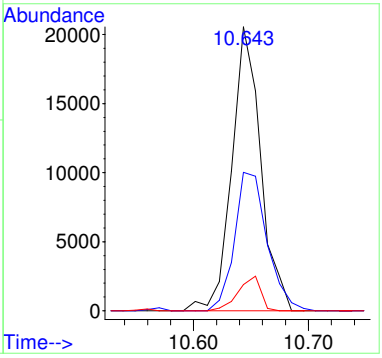


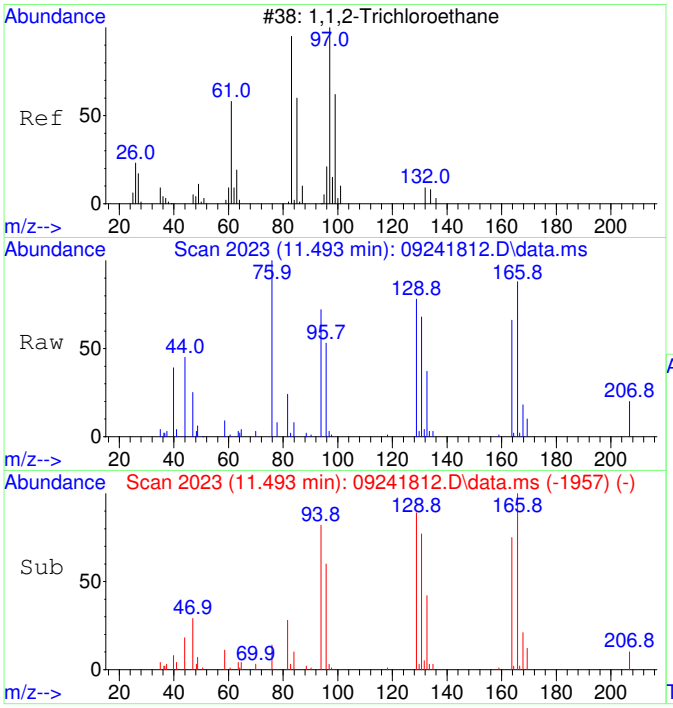


#37
Toluene SCAN
Concen: 3238.47 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 35938

Ion	Ratio	Lower	Upper
91	100		
92	55.2	26.6	86.6
65	9.6	0.0	42.3

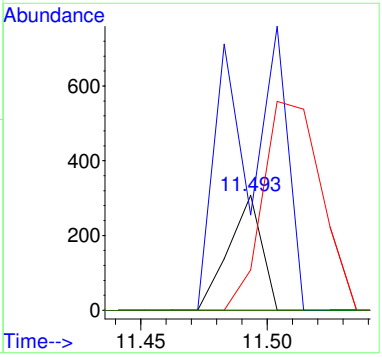


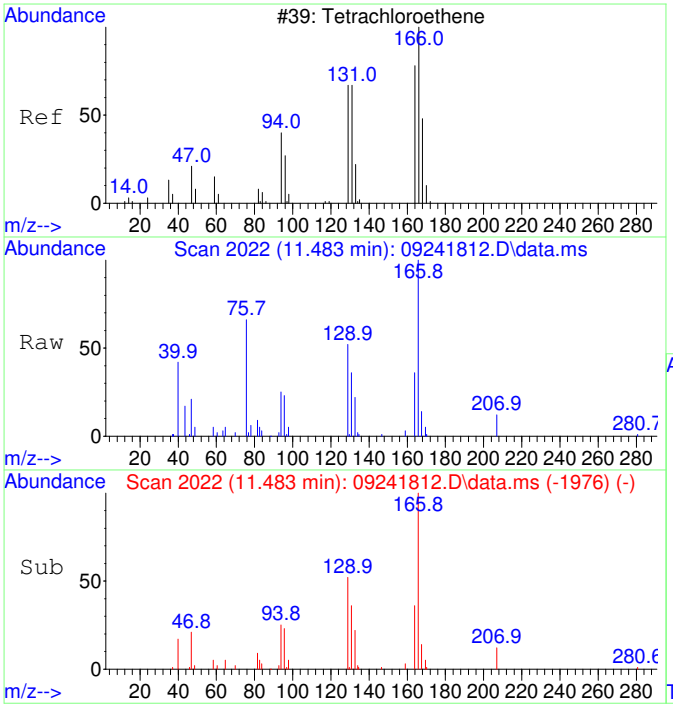


#38
1,1,2-Trichloroethane SCAN
Concen: 132.14 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. 0.189 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 97 Resp: 281

Ion	Ratio	Lower	Upper
97	100		
83	386.8	63.6	123.6#
61	319.9	44.9	104.9#
99	0.0	37.0	97.0#

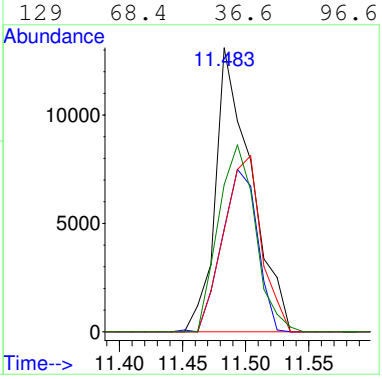


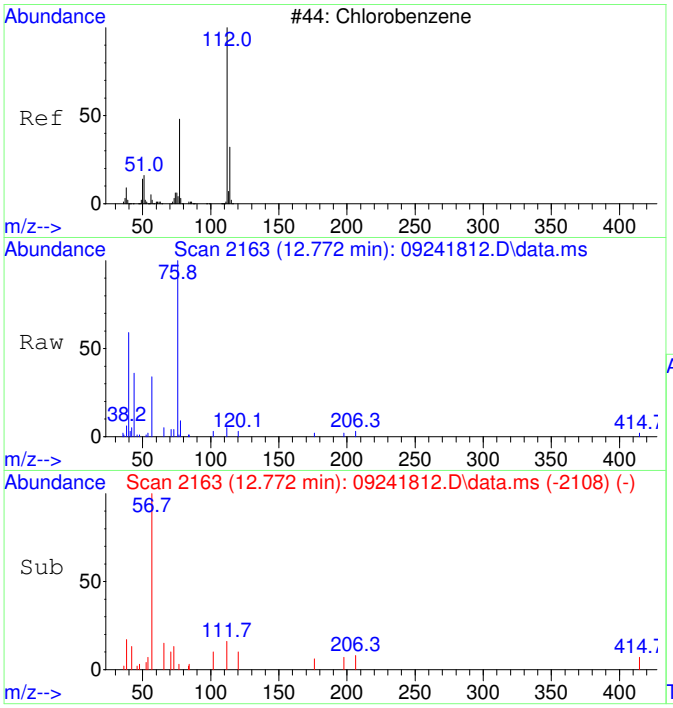


#39
Tetrachloroethene SCAN
Concen: 10589.91 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. -0.021 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:166 Resp: 25788

Ion	Ratio	Lower	Upper
166	100		
164	57.0	43.3	103.3
131	0.0	35.6	95.6#
129	68.4	36.6	96.6

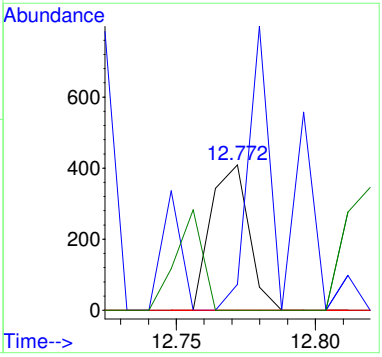


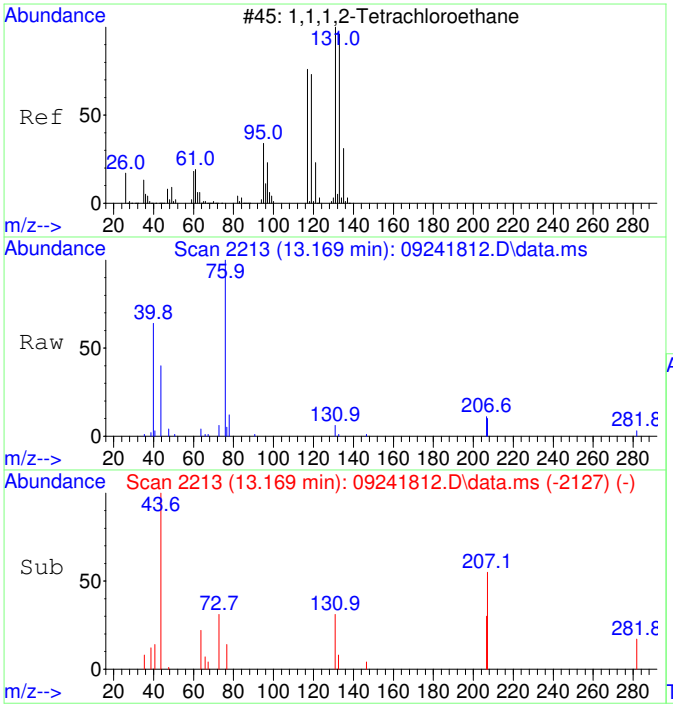


#40
Chlorobenzene SCAN
Concen: 57.79 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. -0.064 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:112 Resp: 389

Ion	Ratio	Lower	Upper
112	100		
77	187.1	28.4	88.4#
114	0.0	0.0	59.5
51	0.0	0.0	53.7

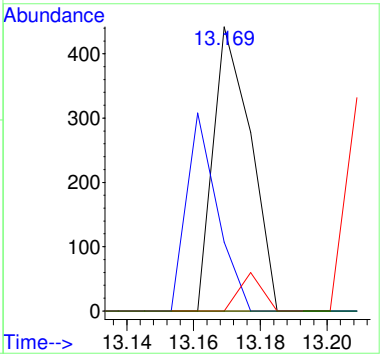


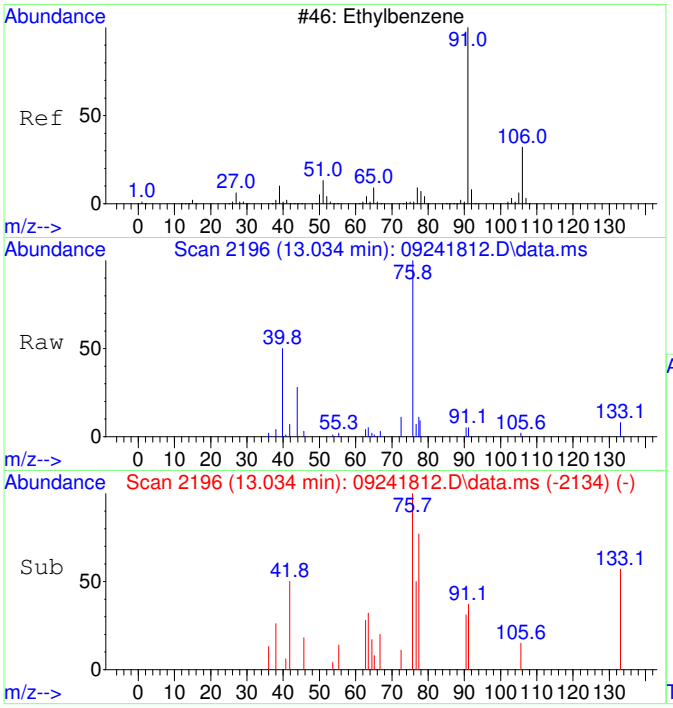


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 142.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.183 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:131 Resp: 343

Ion	Ratio	Lower	Upper
131	100		
133	57.7	56.7	116.7
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

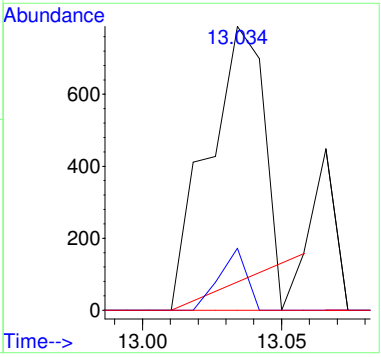


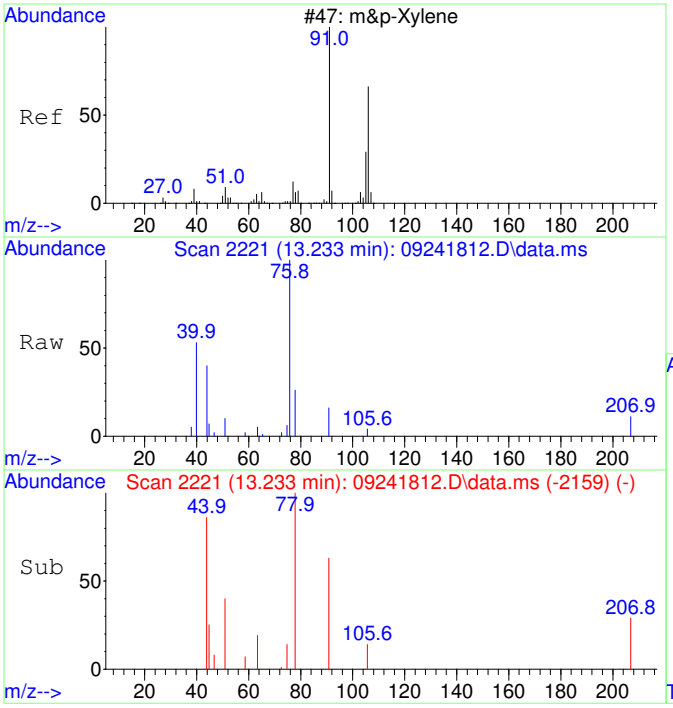


#42
Ethylbenzene SCAN
Concen: 74.35 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.008 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 959

Ion	Ratio	Lower	Upper
91	100		
106	12.4	3.2	63.2
51	0.0	0.0	40.1

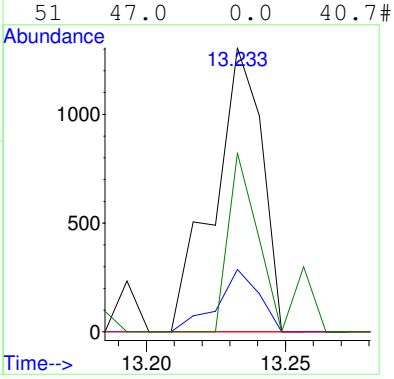


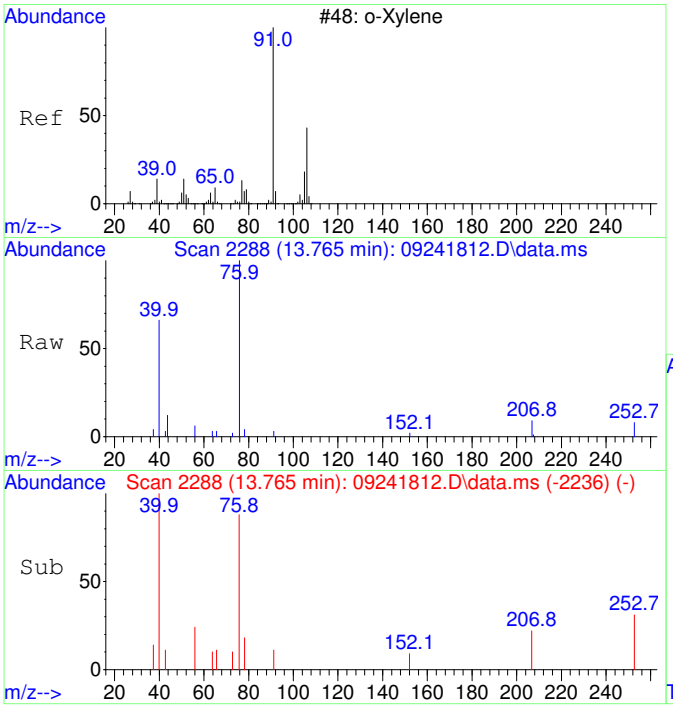


#43
m&p-Xylene SCAN
Concen: 87.69 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 1570

Ion	Ratio	Lower	Upper
91	100		
106	19.2	20.1	80.1#
105	0.0	0.0	51.1
51	47.0	0.0	40.7#

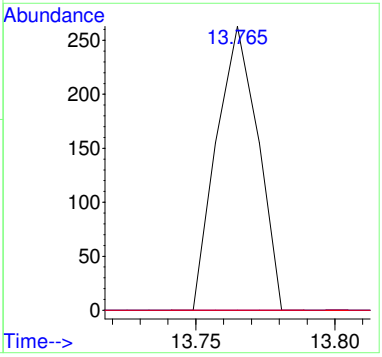


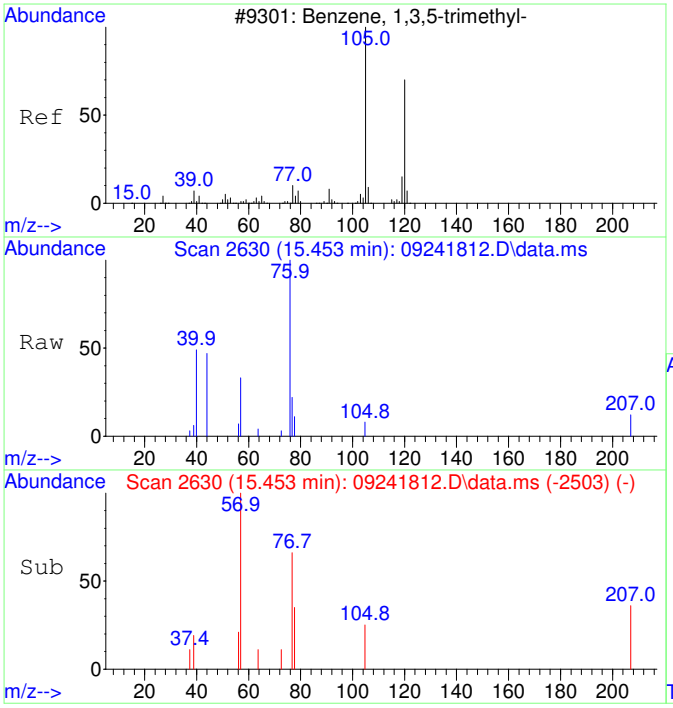


#44
o-Xylene SCAN
Concen: 26.79 ug/L
RT: 13.765 min Scan# 2288
Delta R.T. -0.087 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion: 91 Resp: 273

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	0.0	0.0	55.2

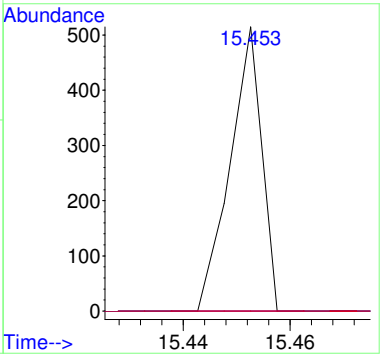


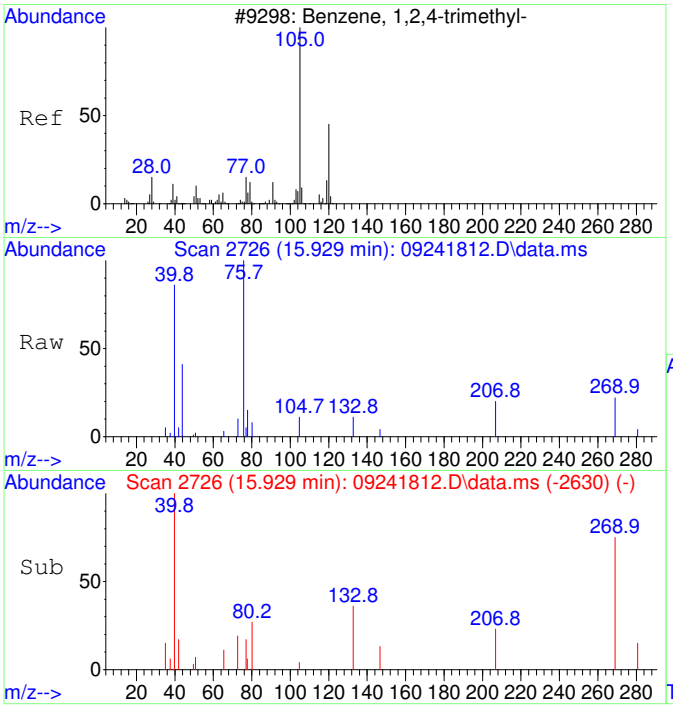


#46
1,3,5-Trimethylbenzene SCAN
Concen: 20.98 ug/L
RT: 15.453 min Scan# 2630
Delta R.T. 0.040 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:105 Resp: 212

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.8	76.8#
119	0.0	0.0	41.5

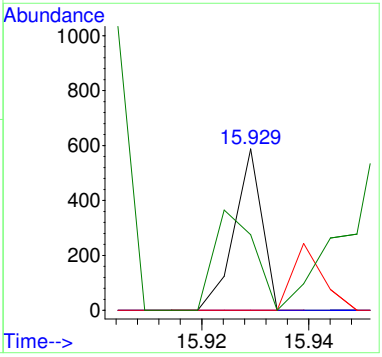




#47
1,2,4-Trimethylbenzene SCAN
Concen: 20.47 ug/L
RT: 15.929 min Scan# 2726
Delta R.T. -0.025 min
Lab File: 09241812.D
Acq: 24 Sep 2018 16:36

Tgt Ion:105 Resp: 212

Ion	Ratio	Lower	Upper
105	100		
120	0.0	15.4	75.4#
119	44.8	0.0	41.7#
77	90.1	0.0	42.0#



S18I078-IBL2

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241813.D
Acq On : 24 Sep 2018 16:59
InstName : AG5975C
Operator : RH
Sample : S18I078-IBL2
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 17:18:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

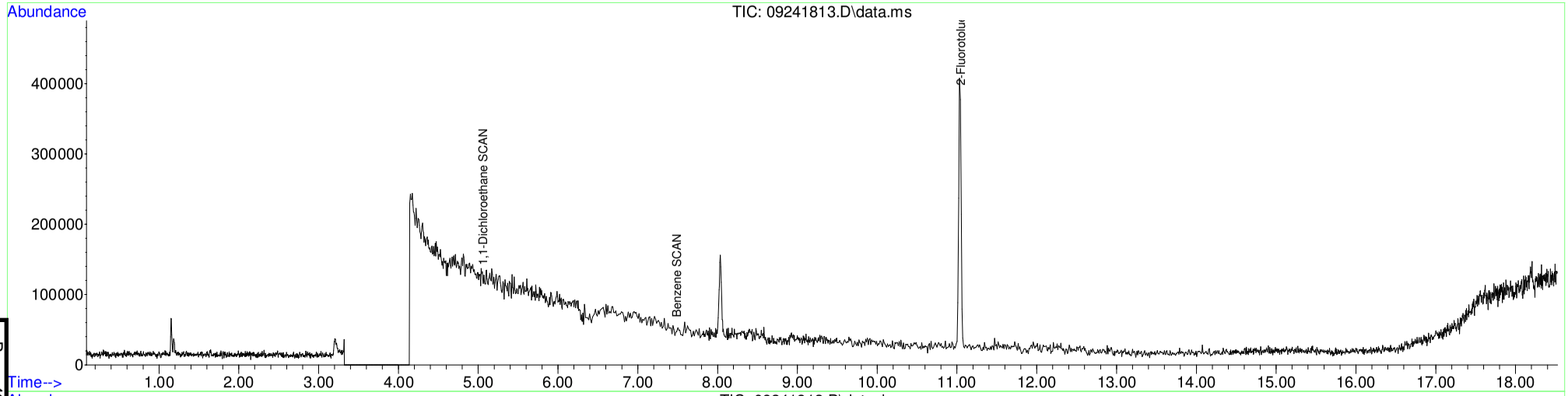
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	486273	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	52	0.66	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 0.01%#			
Target Compounds						Qvalue
25) 2-Fluorotoluene SCAN	11.042	109	320011	5647.54	ug/L	96
28) 1,1-Dichloroethane SCAN	5.058	63	544	25.98	ug/L #	43
33) Benzene SCAN	7.490	78	12401	210.14	ug/L #	59

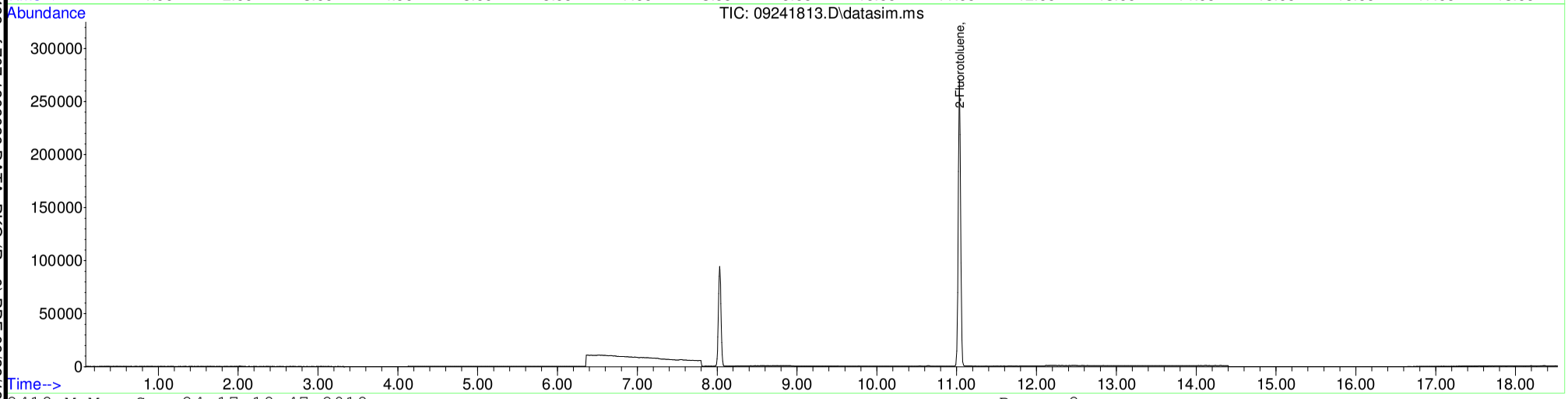
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241813.D
Acq On : 24 Sep 2018 16:59
InstName : AG5975C
Operator : RH
Sample : S18I027-IBL2
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 17:18:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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1809026-01RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241814.D
Acq On : 24 Sep 2018 17:23
InstName : AG5975C
Operator : RH
Sample : 1809026-01RE1
Misc : 100 UL + 100 UL
ALS Vial : 13 Sample Multiplier: 2

Quant Time: Sep 25 09:36:29 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

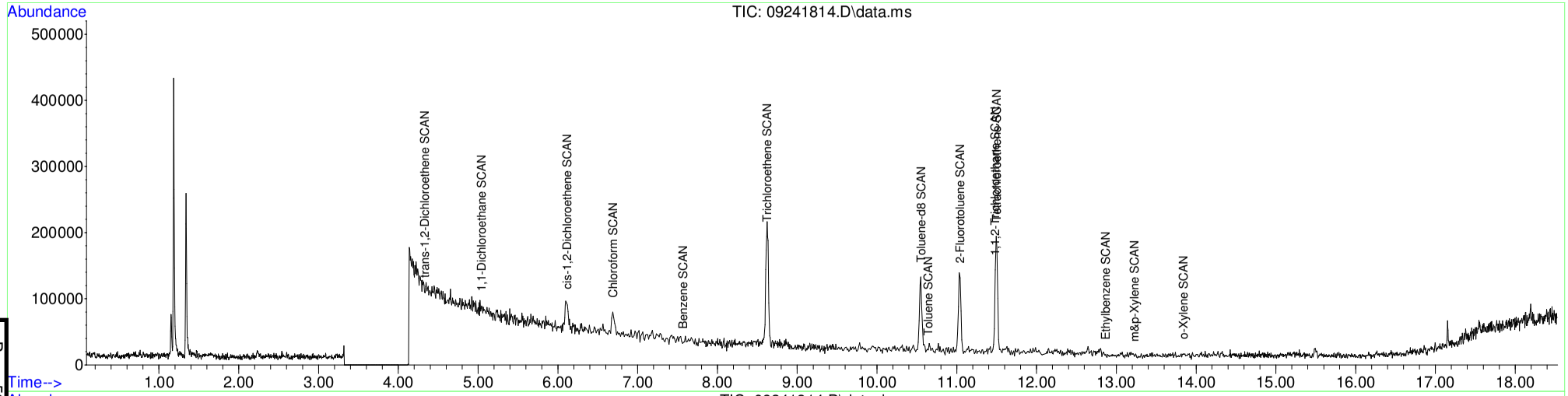
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 2-Fluorotoluene	11.033	109	156170	5000.00 ug/L	0.00	
System Monitoring Compounds						
12) Toluene-d8	10.540	98	129815	5117.53 ug/L	0.00	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.35%			
Target Compounds					Qvalue	
2] 1,1-Dichloroethene	3.101	61	649	99.16 ug/L #	47	
3] trans-1,2-Dichloroethene	4.316	61	2655	380.20 ug/L	98	
5] cis-1,2-Dichloroethene	6.108	61	42522	4959.16 ug/L	99	
6] Chloroform	6.688	83	34149	3698.74 ug/L	99	
11] Trichloroethene	8.624	130	108479	15740.89 ug/L	99	RPT
13] Toluene	10.645	91	5418	159.30 ug/L	99	
15] Tetrachloroethene	11.495	166	107155	11182.34 ug/L	100	
19] m&p-Xylene	13.226	91	989	31.40 ug/L	90	
25) 2-Fluorotoluene SCAN	11.042	109	98472	5411.15 ug/L	100	
27) trans-1,2-Dichloroethe...	4.328	61	2229	421.63 ug/L #	46	
28) 1,1-Dichloroethane SCAN	5.045	63	555	82.52 ug/L #	43	
29) cis-1,2-Dichloroethene...	6.113	61	32976	5669.35 ug/L	91	
30) Chloroform SCAN	6.687	83	25581	3583.05 ug/L	91	
33) Benzene SCAN	7.563	78	5537	292.15 ug/L #	51	
35) Trichloroethene SCAN	8.617	130	68849	14845.28 ug/L	93	
36) Toluene-d8 SCAN	10.549	98	89032	5411.99 ug/L	81	
37) Toluene SCAN	10.643	91	4509	214.57 ug/L #	80	
38) 1,1,2-Trichloroethane ...	11.483	97	2010	499.15 ug/L #	10	
39) Tetrachloroethene SCAN	11.494	166	58947	12783.06 ug/L	88	
42) Ethylbenzene SCAN	12.867	91	525	21.49 ug/L #	49	
43) m&p-Xylene SCAN	13.225	91	769	22.68 ug/L #	38	
44) o-Xylene SCAN	13.844	91	506	26.22 ug/L #	34	

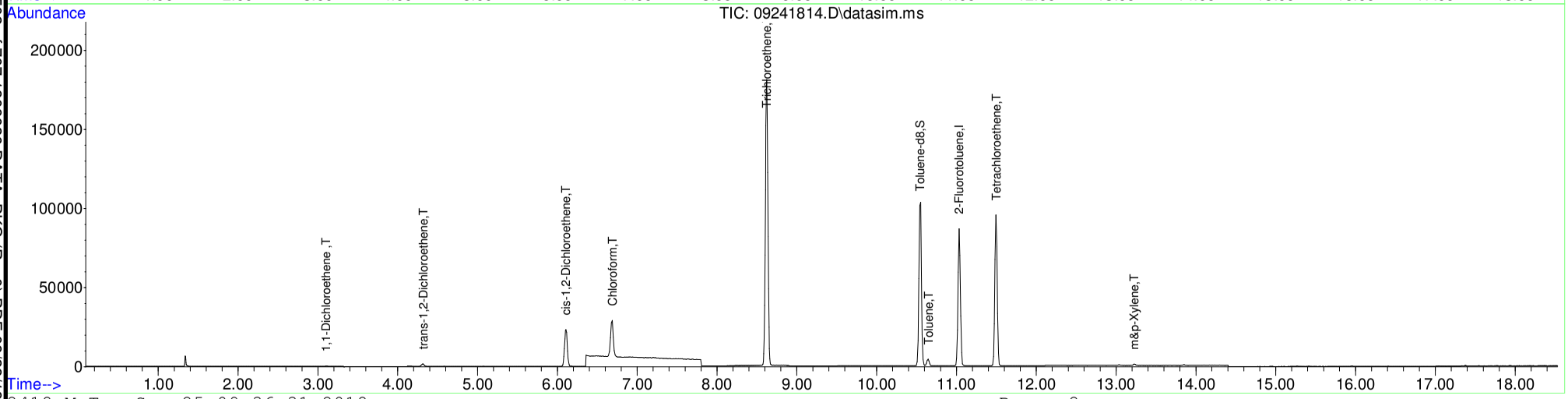
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241814.D
Acq On : 24 Sep 2018 17:23
InstName : AG5975C
Operator : RH
Sample : 1809026-01RE1
Misc : 100 UL + 100 UL
ALS Vial : 13 Sample Multiplier: 2

Quant Time: Sep 25 09:36:29 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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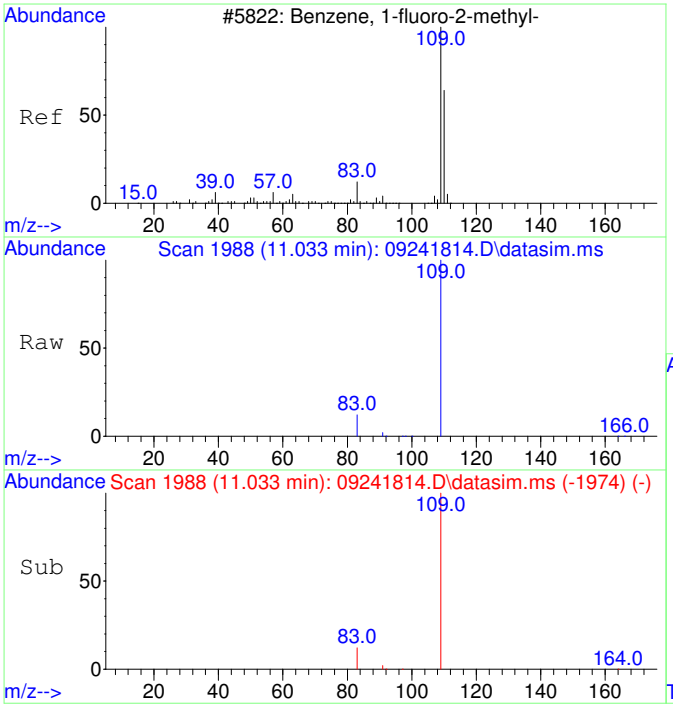
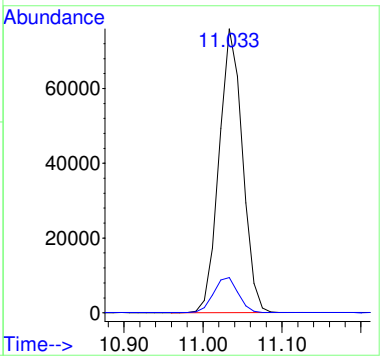
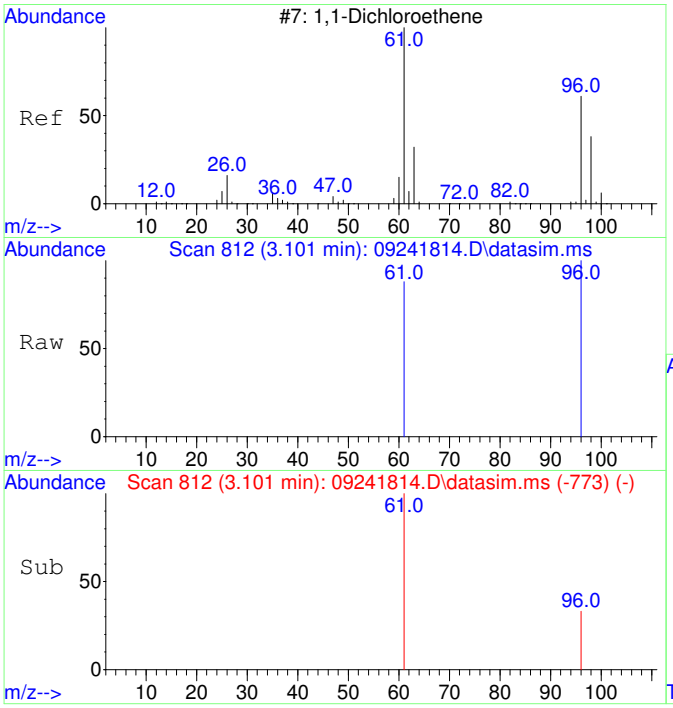


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion:109 Resp: 156170

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	44.7

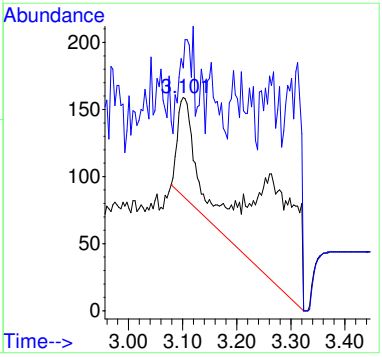


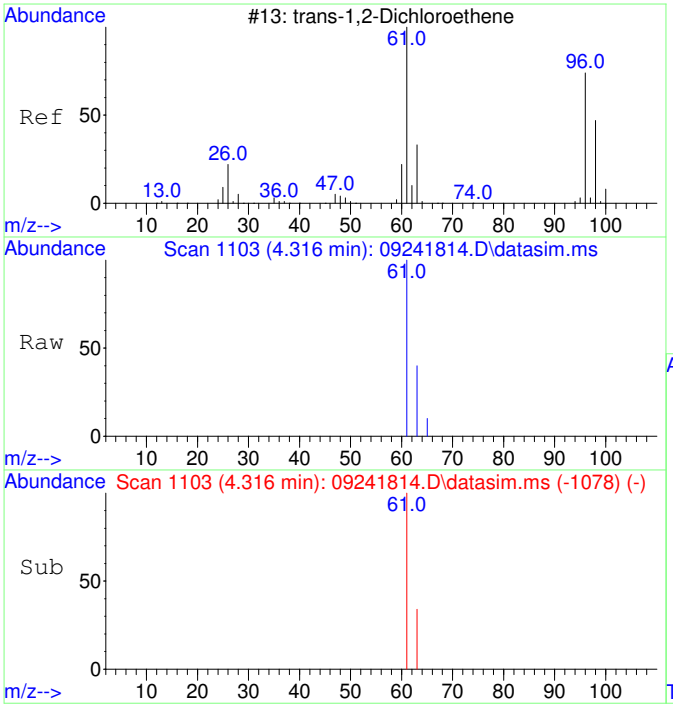


#2
1,1-Dichloroethene
Concen: 99.16 ug/L
RT: 3.101 min Scan# 812
Delta R.T. -0.003 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 61 Resp: 649

Ion	Ratio	Lower	Upper
61	100		
96	19.3	28.7	88.7#

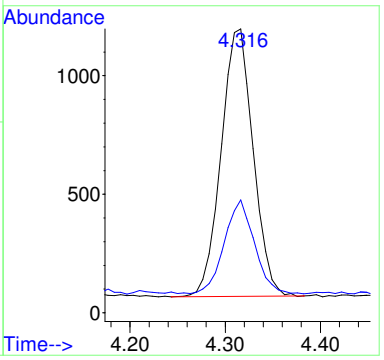


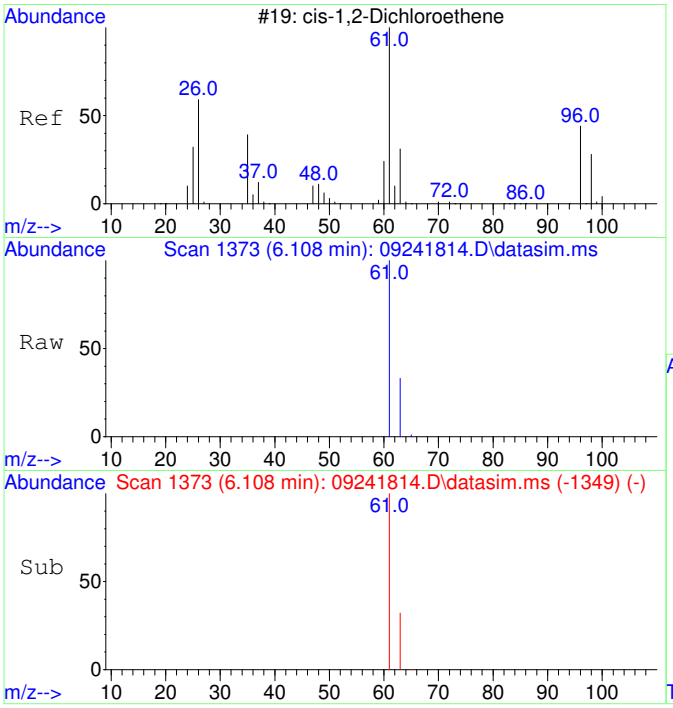


#3
trans-1,2-Dichloroethene
Concen: 380.20 ug/L
RT: 4.316 min Scan# 1103
Delta R.T. 0.013 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 61 Resp: 2655

Ion	Ratio	Lower	Upper
61	100		
63	32.9	2.0	62.0

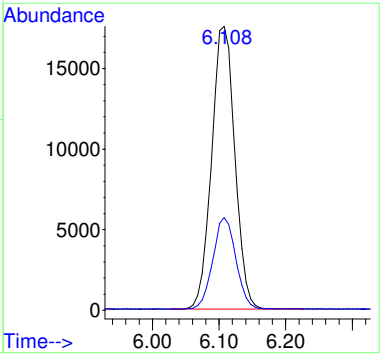


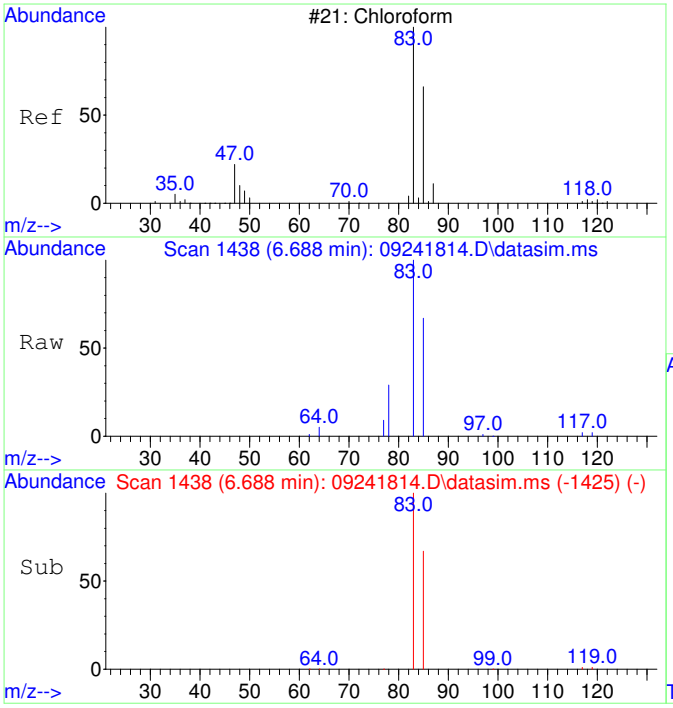


#5
cis-1,2-Dichloroethene
Concen: 4959.16 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.007 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 61 Resp: 42522

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.2	62.2

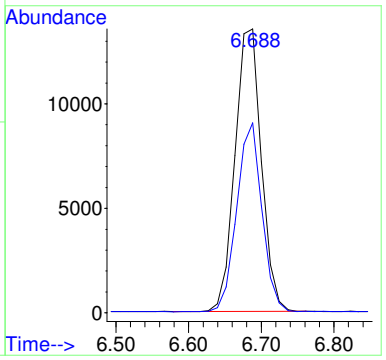


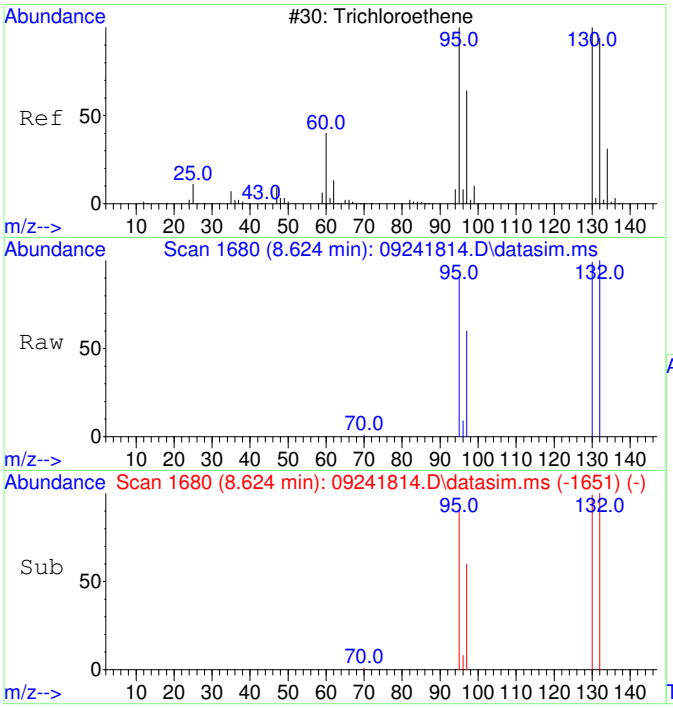


#6
Chloroform
Concen: 3698.74 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 83 Resp: 34149

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.8	94.8

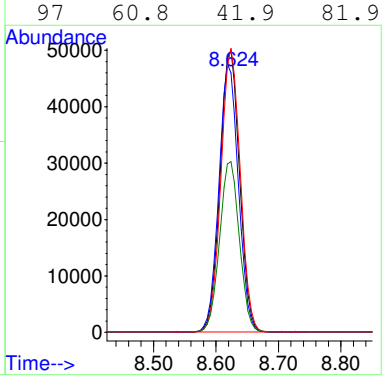


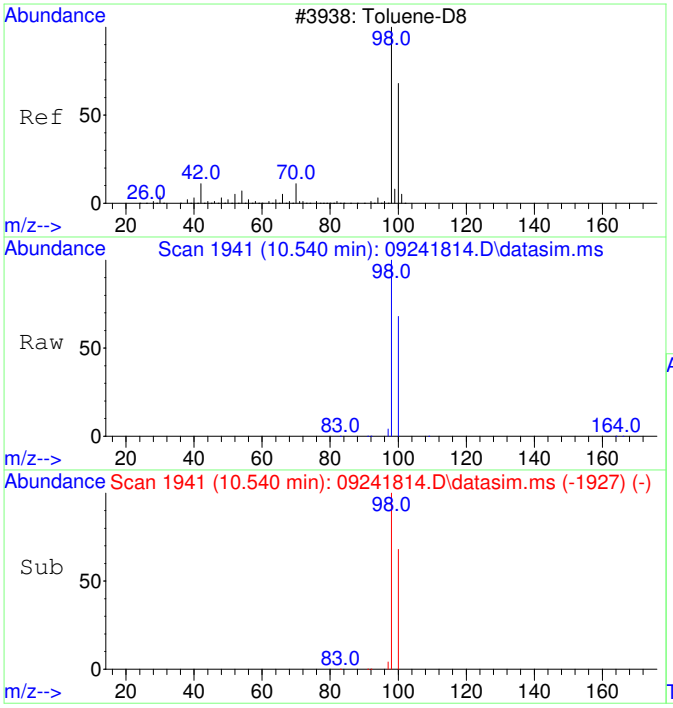


#11
Trichloroethene
Concen: 15740.89 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.006 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion:130 Resp: 108479

Ion	Ratio	Lower	Upper
130	100		
95	94.9	66.0	126.0
132	99.4	78.8	118.8
97	60.8	41.9	81.9

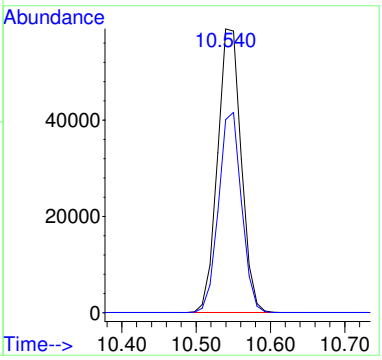


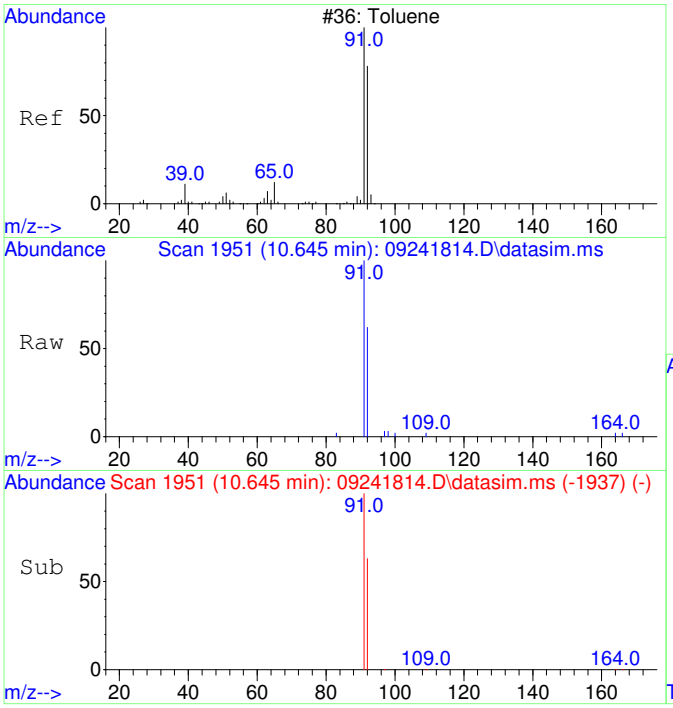


#12
Toluene-d8
Concen: 5117.53 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 98 Resp: 129815

Ion	Ratio	Lower	Upper
98	100		
100	68.7	38.7	98.7

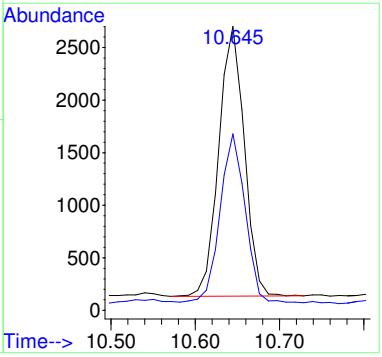


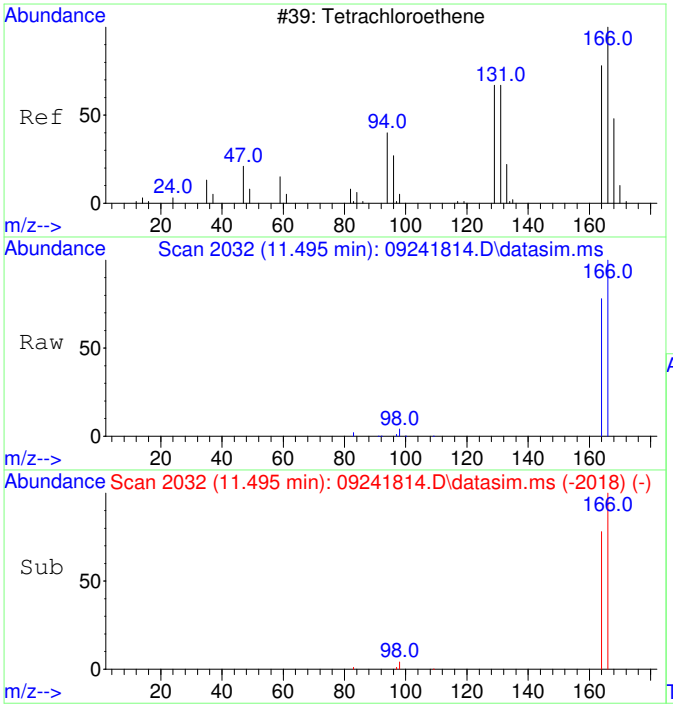


#13
Toluene
Concen: 159.30 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 91 Resp: 5418

Ion	Ratio	Lower	Upper
91	100		
92	61.1	30.0	90.0

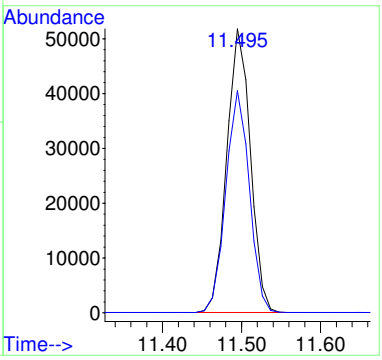


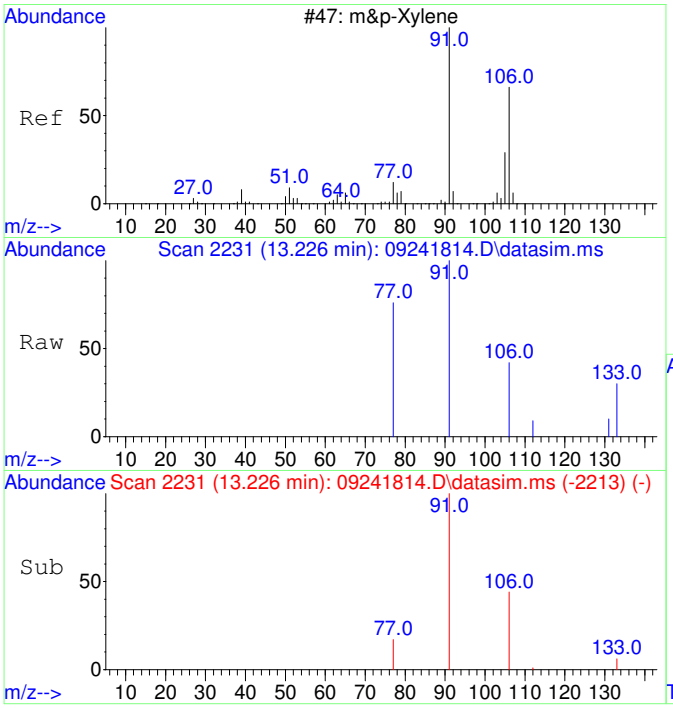


#15
Tetrachloroethene
Concen: 11182.34 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion:166 Resp: 107155

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

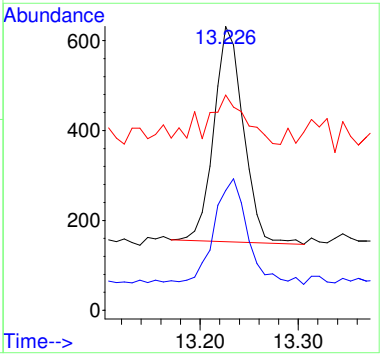


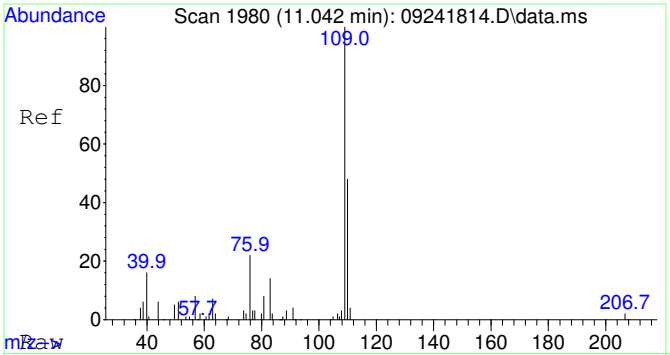


#19
m&p-Xylene
Concen: 31.40 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 91 Resp: 989

Ion	Ratio	Lower	Upper
91	100		
106	51.7	21.2	81.2
77	31.2	0.0	42.9

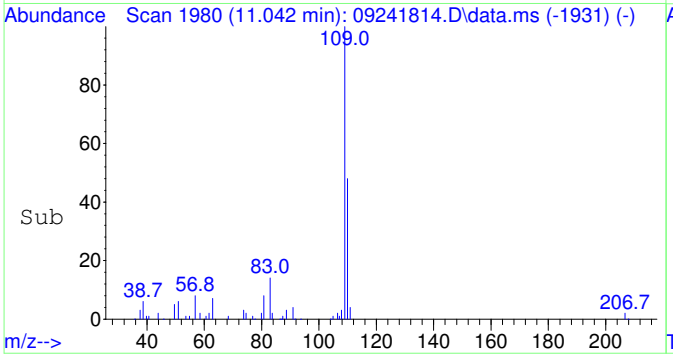


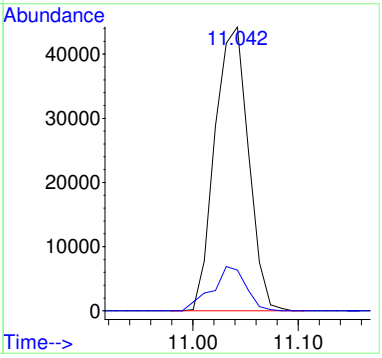


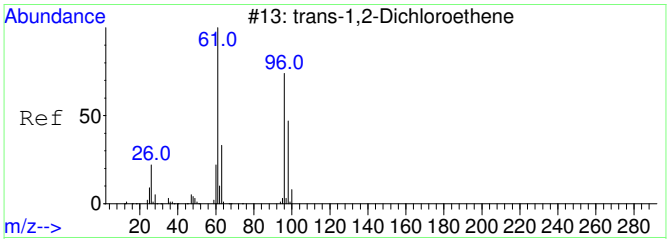
#25
2-Fluorotoluene SCAN
Concen: 5411.15 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.011 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion:109 Resp: 98472

Ion	Ratio	Lower	Upper
109	100		
83	15.7	0.0	45.7



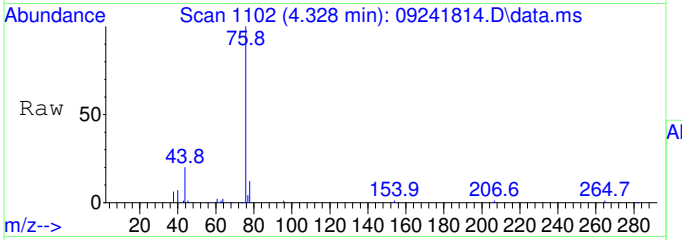


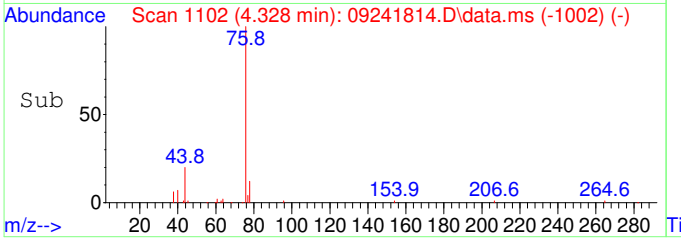


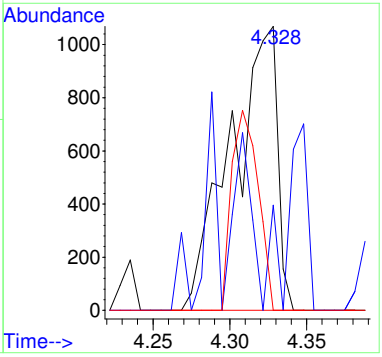
#27
trans-1,2-Dichloroethene SCAN
Concen: 421.63 ug/L
RT: 4.328 min Scan# 1102
Delta R.T. 0.020 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

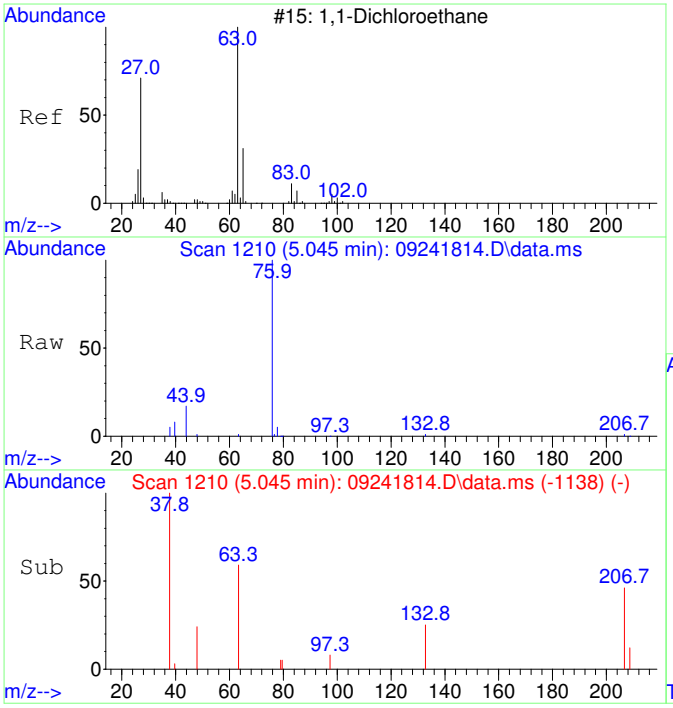
Tgt Ion: 61 Resp: 2229

Ion	Ratio	Lower	Upper
61	100		
96	30.4	37.9	97.9#
98	0.0	12.7	72.7#





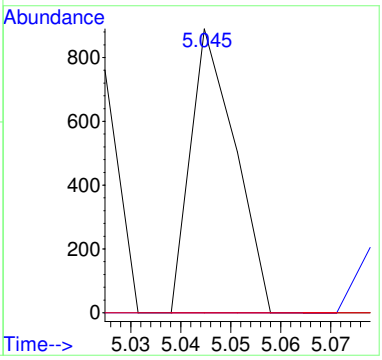


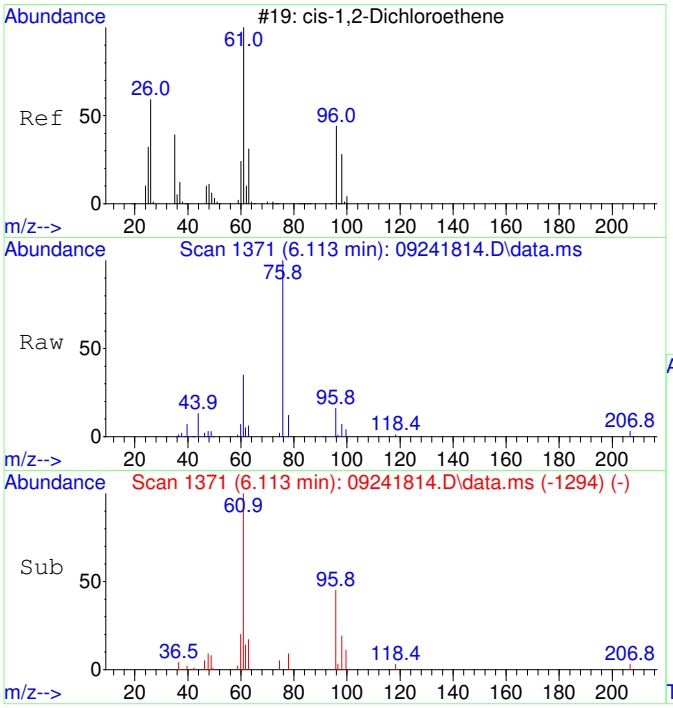


#28
1,1-Dichloroethane SCAN
Concen: 82.52 ug/L
RT: 5.045 min Scan# 1210
Delta R.T. -0.020 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 63 Resp: 555

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

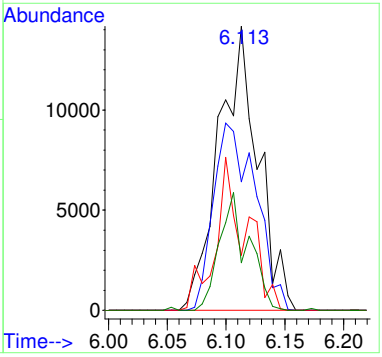


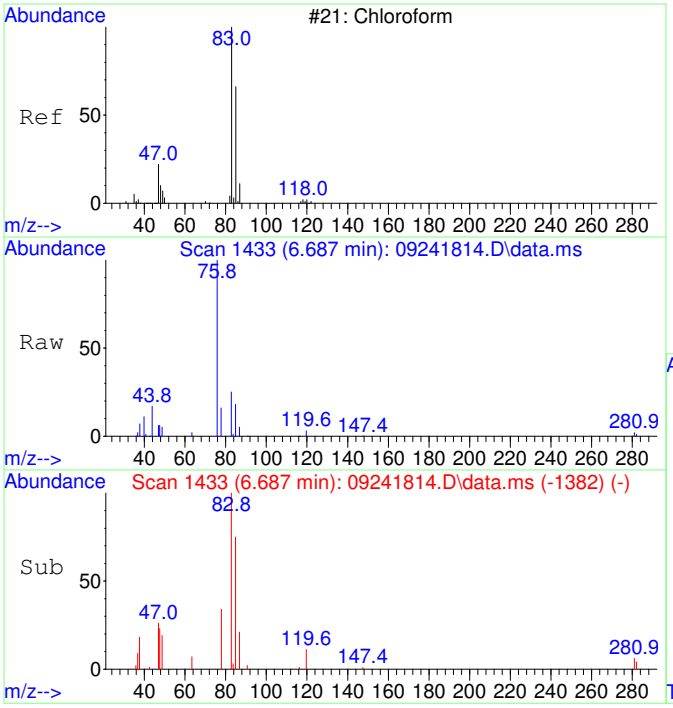


#29
cis-1,2-Dichloroethene SCAN
Concen: 5669.35 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.013 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 61 Resp: 32976

Ion	Ratio	Lower	Upper
61	100		
96	70.5	28.2	88.2
98	42.1	14.1	74.1
63	30.6	1.5	61.5

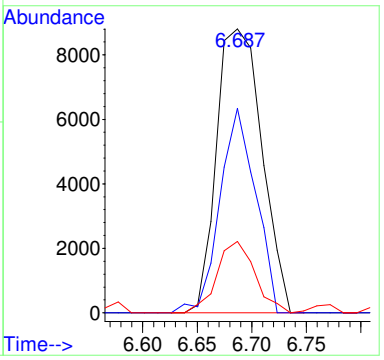


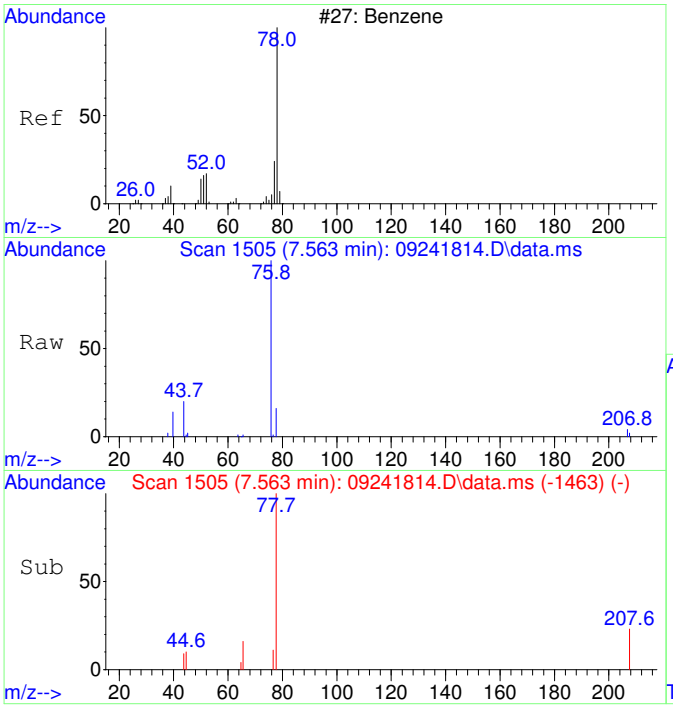


#30
Chloroform SCAN
Concen: 3583.05 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.000 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 83 Resp: 25581

Ion	Ratio	Lower	Upper
83	100		
85	56.7	32.6	92.6
47	21.0	0.0	57.9

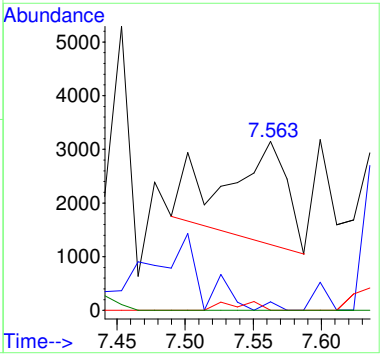


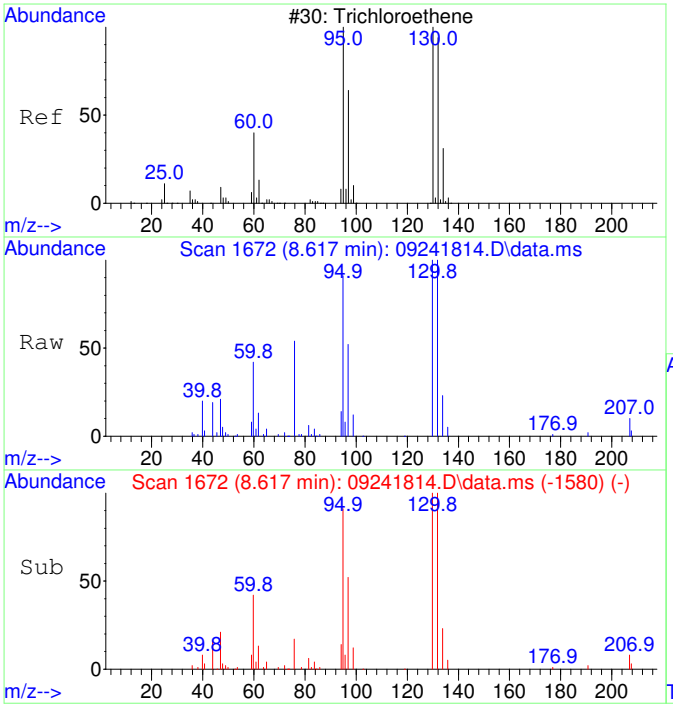


#33
Benzene SCAN
Concen: 292.15 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 78 Resp: 5537

Ion	Ratio	Lower	Upper
78	100		
77	0.0	3.0	63.0#
51	5.0	0.0	56.4
52	0.0	0.0	48.0

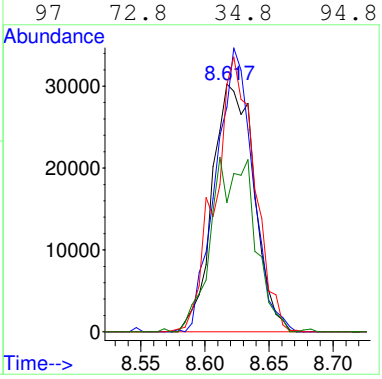


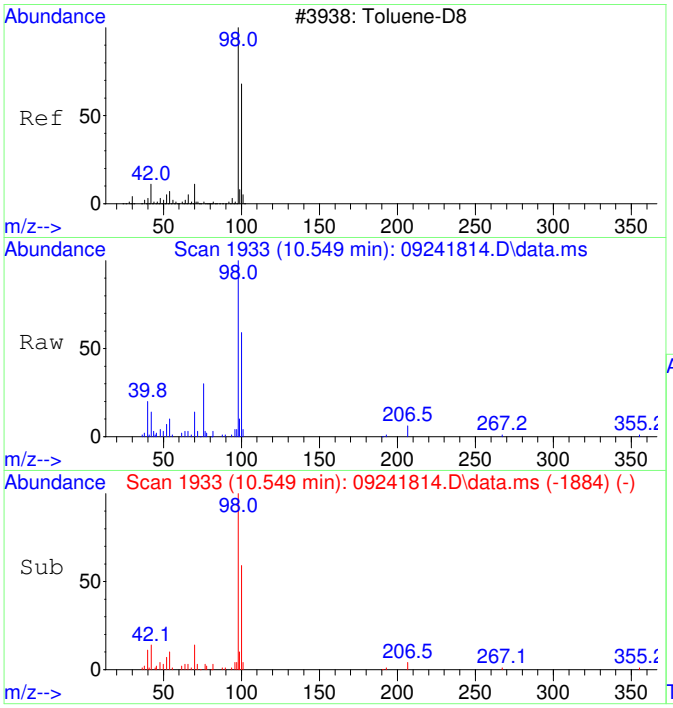


#35
Trichloroethene SCAN
Concen: 14845.28 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion:130 Resp: 68849

Ion	Ratio	Lower	Upper
130	100		
95	101.1	70.5	130.5
132	104.2	63.8	123.8
97	72.8	34.8	94.8

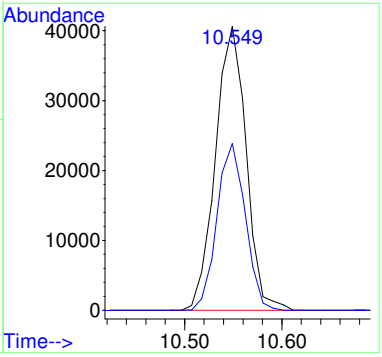


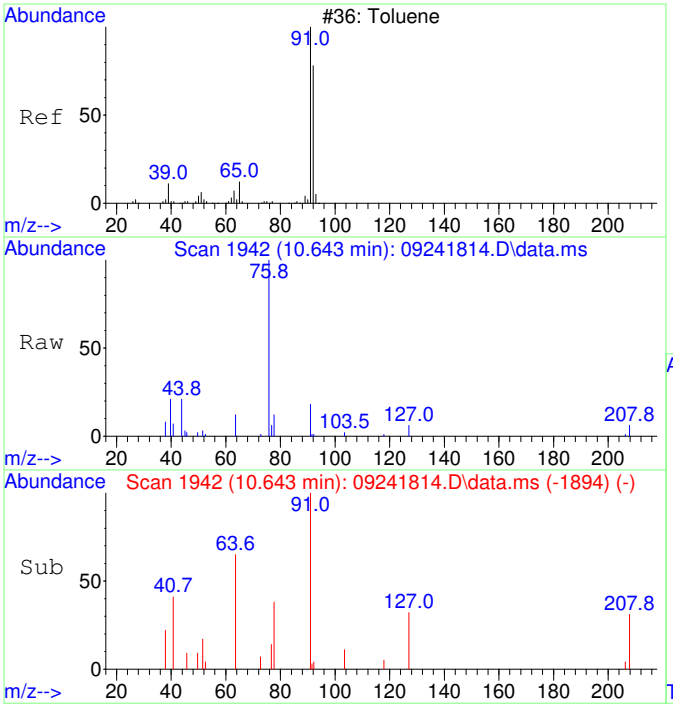


#36
Toluene-d8 SCAN
Concen: 5411.99 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 98 Resp: 89032

Ion	Ratio	Lower	Upper
98	100		
100	54.2	39.5	99.5

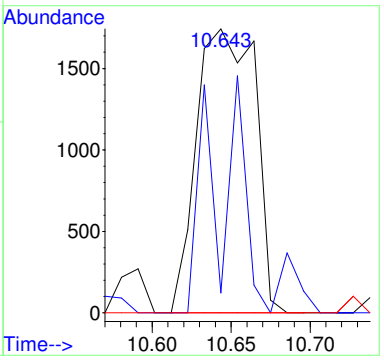


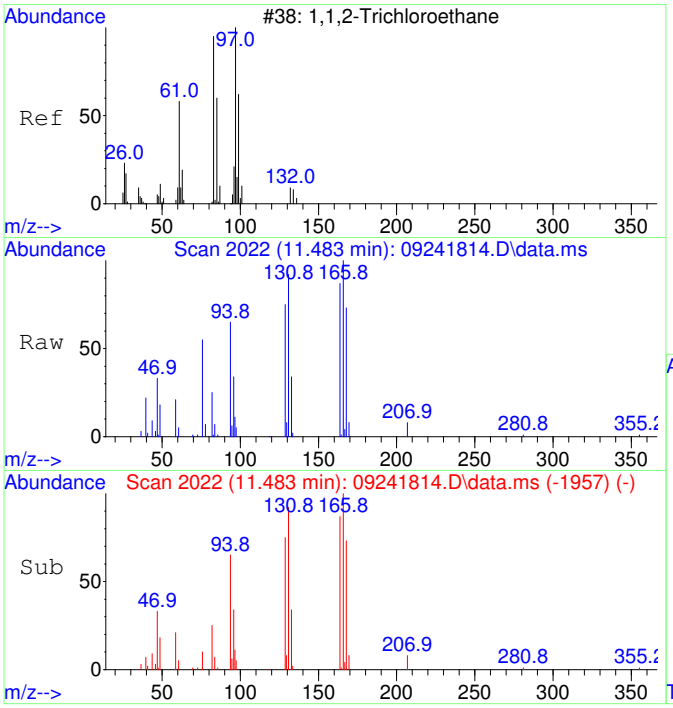


#37
Toluene SCAN
Concen: 214.57 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 91 Resp: 4509

Ion	Ratio	Lower	Upper
91	100		
92	44.0	26.6	86.6
65	0.0	0.0	42.3

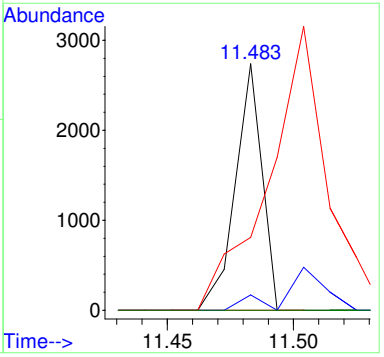


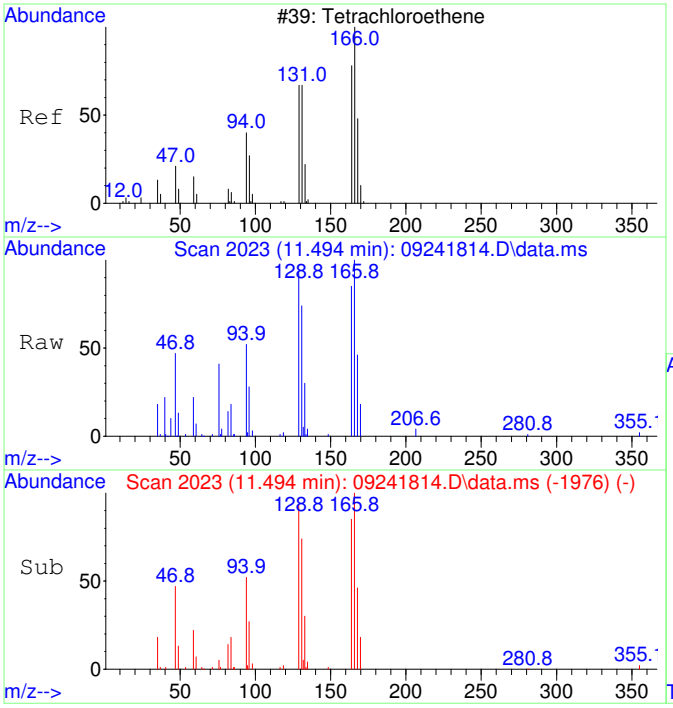


#38
1,1,2-Trichloroethane SCAN
Concen: 499.15 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. 0.178 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 97 Resp: 2010

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

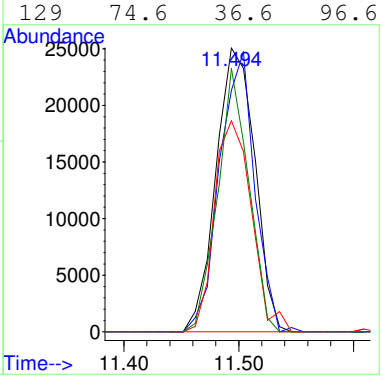


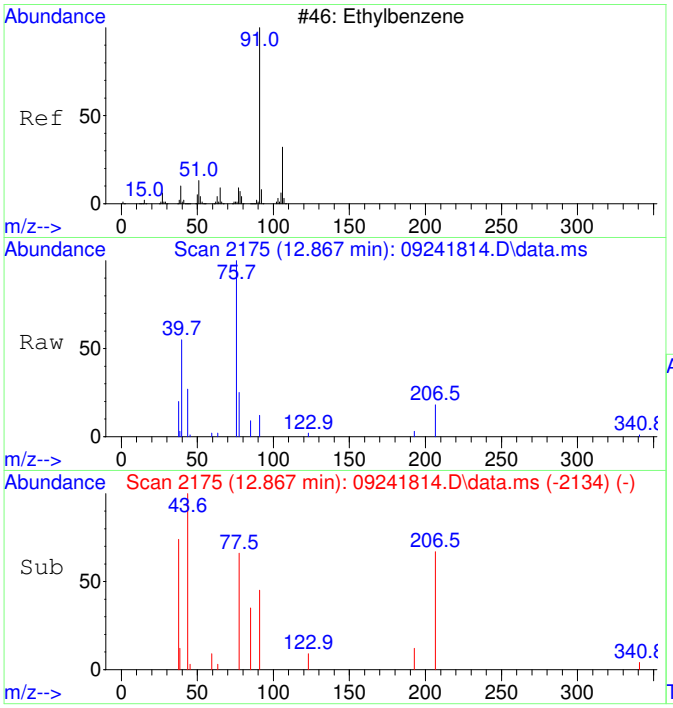


#39
Tetrachloroethene SCAN
Concen: 12783.06 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. -0.010 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion:166 Resp: 58947

Ion	Ratio	Lower	Upper
166	100		
164	89.0	43.3	103.3
131	71.1	35.6	95.6
129	74.6	36.6	96.6

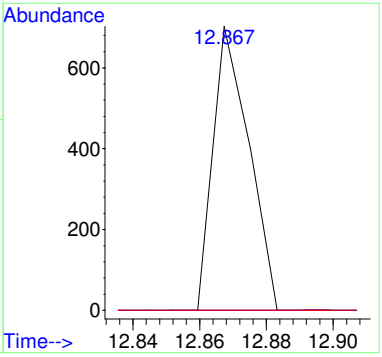


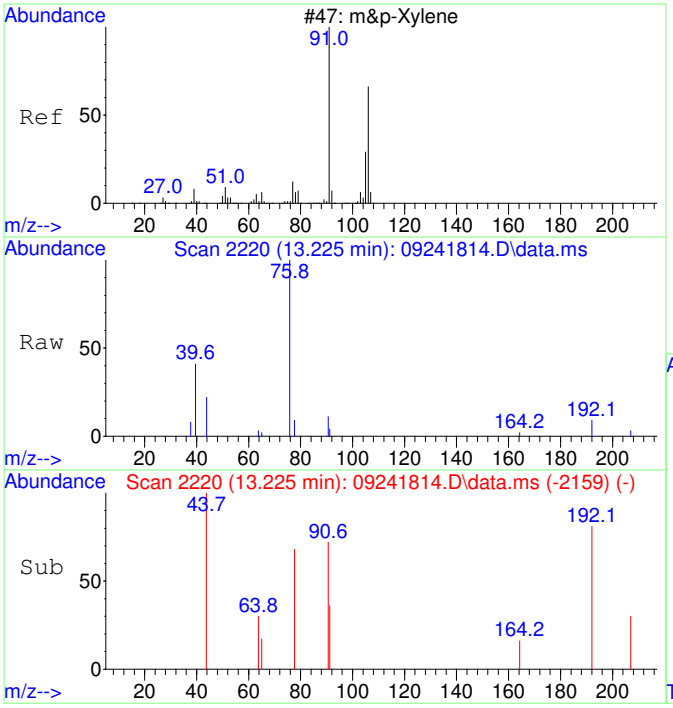


#42
Ethylbenzene SCAN
Concen: 21.49 ug/L
RT: 12.867 min Scan# 2175
Delta R.T. -0.175 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 91 Resp: 525

Ion	Ratio	Lower	Upper
91	100		
106	0.0	3.2	63.2#
51	0.0	0.0	40.1

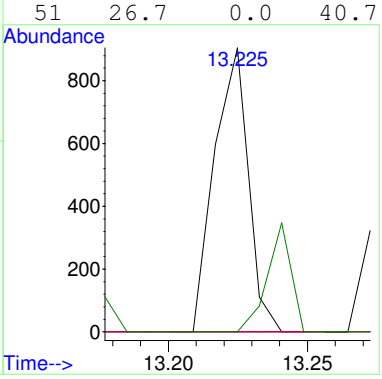


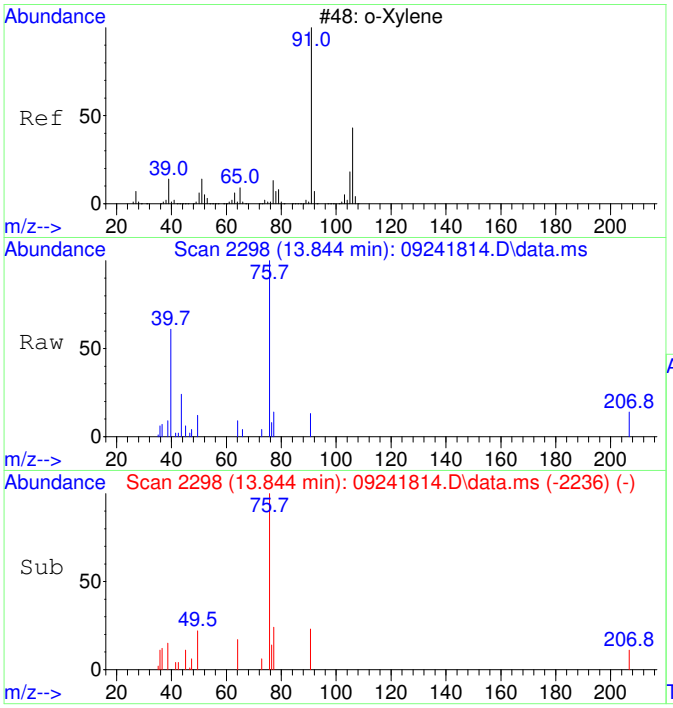


#43
m&p-Xylene SCAN
Concen: 22.68 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.016 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 91 Resp: 769

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	0.0	0.0	51.1
51	26.7	0.0	40.7

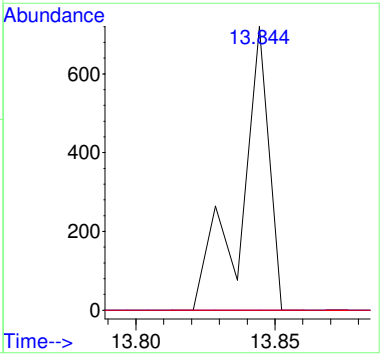




#44
o-Xylene SCAN
Concen: 26.22 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 09241814.D
Acq: 24 Sep 2018 17:23

Tgt Ion: 91 Resp: 506

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	0.0	0.0	55.2



1809026-03RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241815.D
Acq On : 24 Sep 2018 17:47
InstName : AG5975C
Operator : RH
Sample : 1809026-03RE1
Misc : 20 UL + 80 UL
ALS Vial : 14 Sample Multiplier: 5

Quant Time: Sep 25 09:36:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

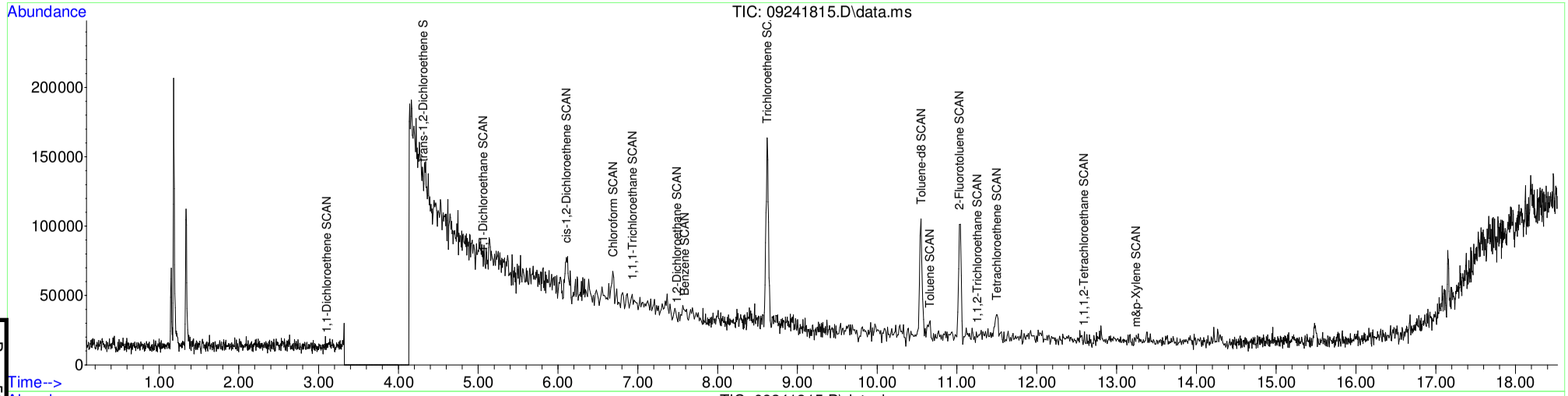
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 2-Fluorotoluene	11.033	109	107487	5000.00 ug/L	0.00	
System Monitoring Compounds						
12) Toluene-d8	10.540	98	89978	5153.63 ug/L	0.00	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.07%			
Target Compounds					Qvalue	
2] 1,1-Dichloroethene	3.101	61	1905	422.91 ug/L	97	
3] trans-1,2-Dichloroethene	4.309	61	1288	267.98 ug/L	91	
4] 1,1-Dichloroethane	5.072	63	1532	256.09 ug/L	97	
5] cis-1,2-Dichloroethene	6.107	61	21883	3708.03 ug/L	100	
6] Chloroform	6.676	83	19432	3057.98 ug/L	99	
7] 1,1,1-Trichloroethane	6.943	97	907	145.01 ug/L	99	
11] Trichloroethene	8.624	130	75941	16010.38 ug/L	98	RPT
13] Toluene	10.645	91	12703	542.66 ug/L	98	
15] Tetrachloroethene	11.495	166	10232	1551.40 ug/L	98	
25) 2-Fluorotoluene SCAN	11.032	109	72721	5806.02 ug/L	97	
26) 1,1-Dichloroethene SCAN	3.103	61	401	128.30 ug/L	86	
27) trans-1,2-Dichloroethe...	4.308	61	217	59.64 ug/L #	1	
28) 1,1-Dichloroethane SCAN	5.064	63	698	150.79 ug/L #	52	
29) cis-1,2-Dichloroethene...	6.106	61	16704	4172.51 ug/L	82	
30) Chloroform SCAN	6.687	83	15238	3101.03 ug/L	92	
31) 1,1,1-Trichloroethane ...	6.930	97	233	53.27 ug/L #	26	
33) Benzene SCAN	7.587	78	5537	424.48 ug/L #	48	
34) 1,2-Dichloroethane SCAN	7.489	62	230	51.70 ug/L #	39	
35) Trichloroethene SCAN	8.622	130	54713	17140.48 ug/L	94	
36) Toluene-d8 SCAN	10.549	98	58187	5139.00 ug/L	89	
37) Toluene SCAN	10.654	91	10420	720.43 ug/L	86	
38) 1,1,2-Trichloroethane ...	11.252	97	100	36.08 ug/L #	10	
39) Tetrachloroethene SCAN	11.493	166	5215	1643.12 ug/L #	62	
41) 1,1,1,2-Tetrachloroeth...	12.589	131	104	33.21 ug/L #	13	
43) m&p-Xylene SCAN	13.240	91	481	20.61 ug/L #	44	

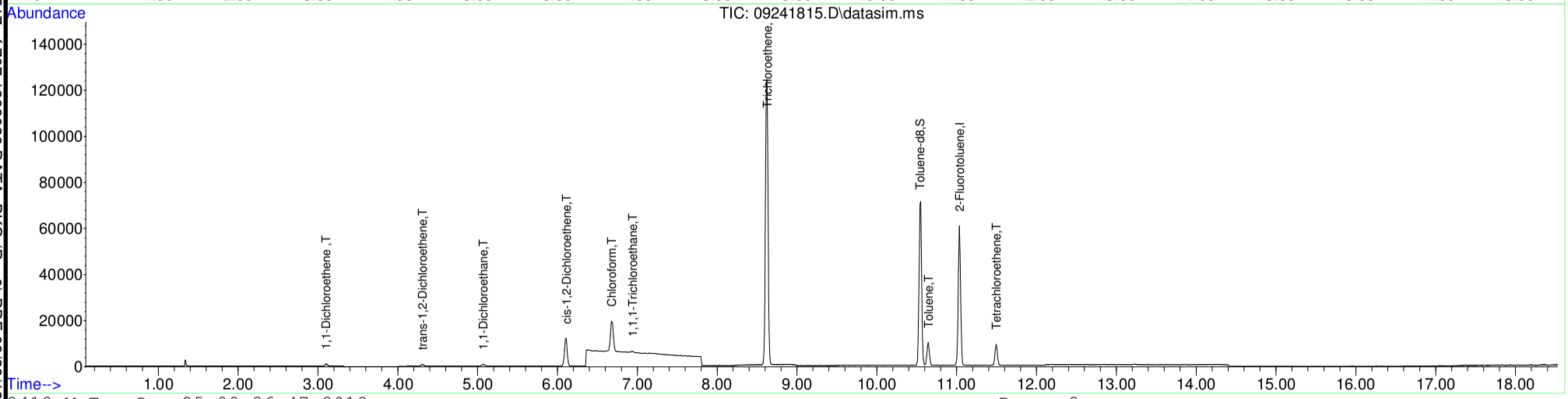
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241815.D
Acq On : 24 Sep 2018 17:47
InstName : AG5975C
Operator : RH
Sample : 1809026-03RE1
Misc : 20 UL + 80 UL
ALS Vial : 14 Sample Multiplier: 5

Quant Time: Sep 25 09:36:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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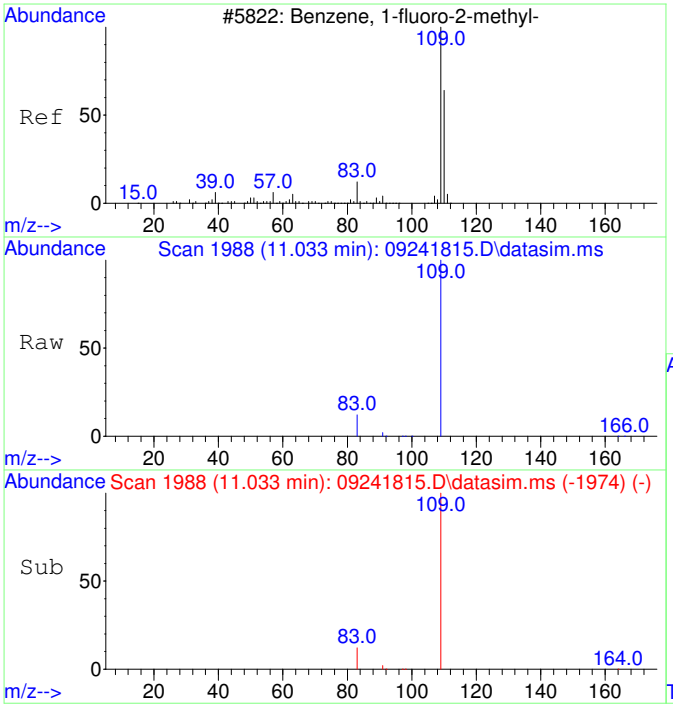
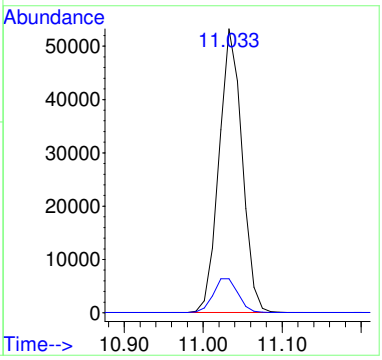
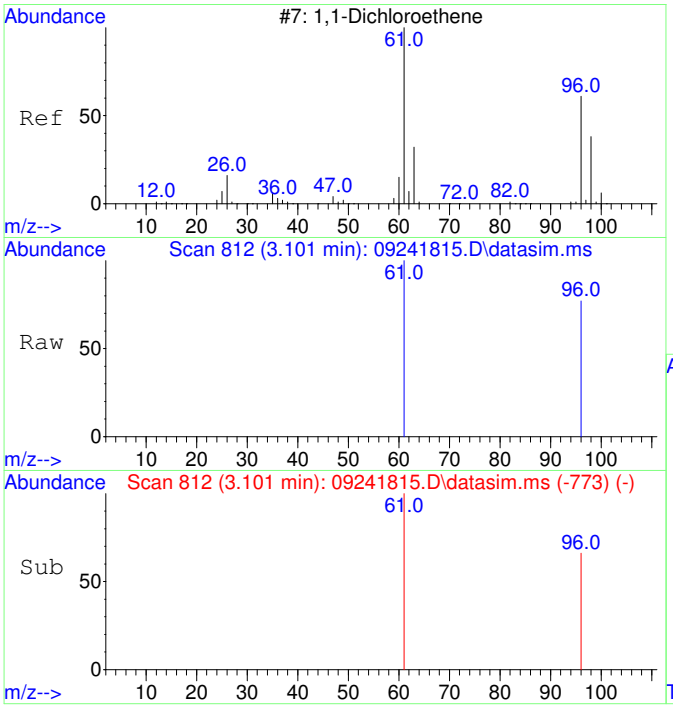


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion:109 Resp: 107487

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	44.7

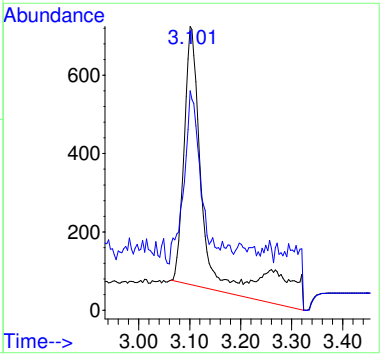


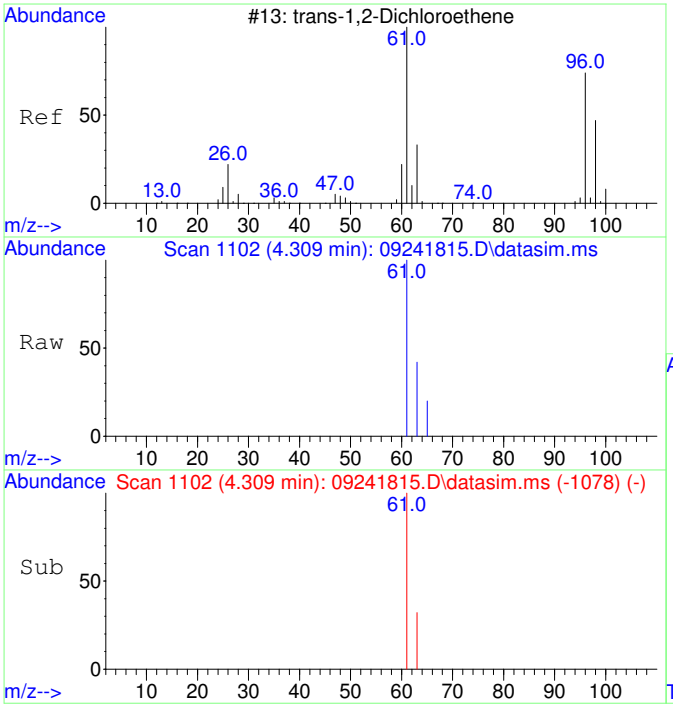


#2
1,1-Dichloroethene
Concen: 422.91 ug/L
RT: 3.101 min Scan# 812
Delta R.T. -0.004 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 61 Resp: 1905

Ion	Ratio	Lower	Upper
61	100		
96	60.6	28.7	88.7

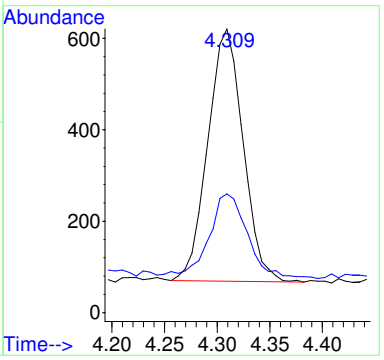


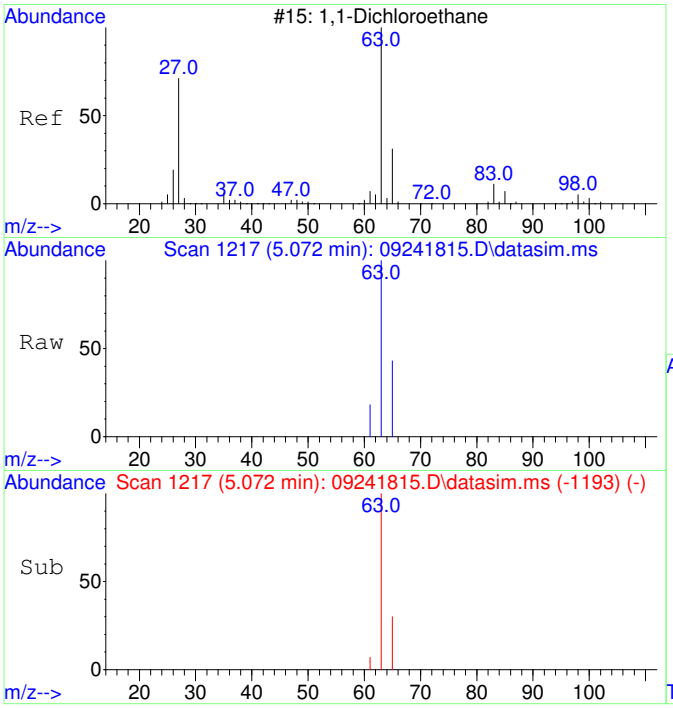


#3
trans-1,2-Dichloroethene
Concen: 267.98 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.006 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 61 Resp: 1288

Ion	Ratio	Lower	Upper
61	100		
63	37.2	2.0	62.0

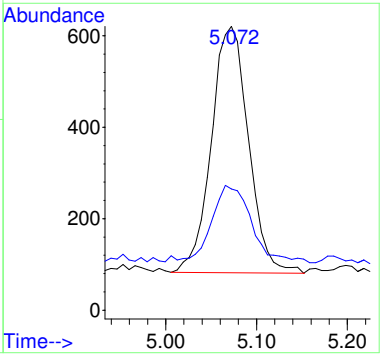


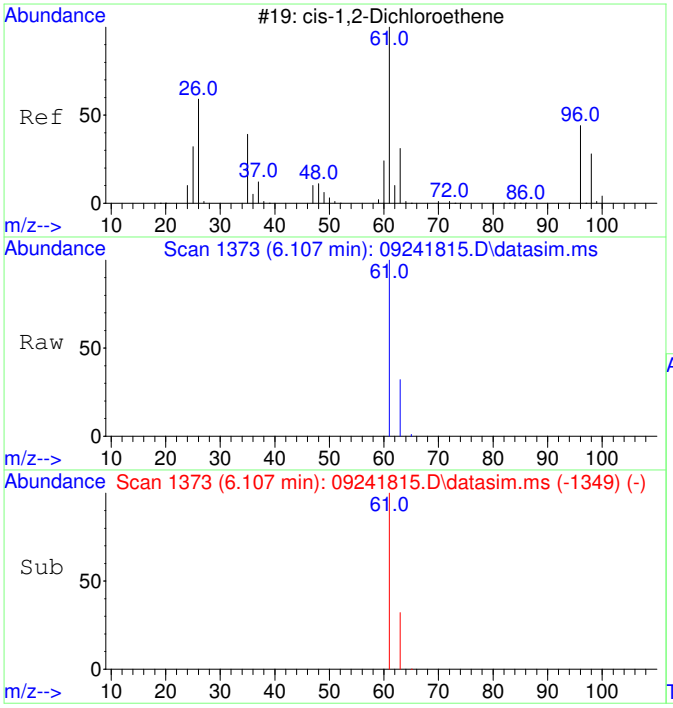


#4
1,1-Dichloroethane
Concen: 256.09 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 63 Resp: 1532

Ion	Ratio	Lower	Upper
63	100		
65	33.4	1.5	61.5

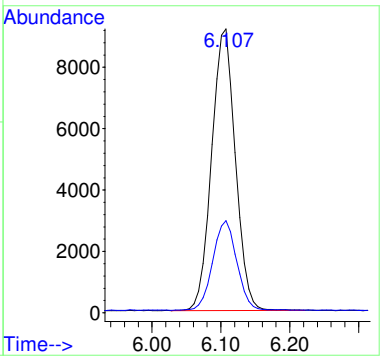


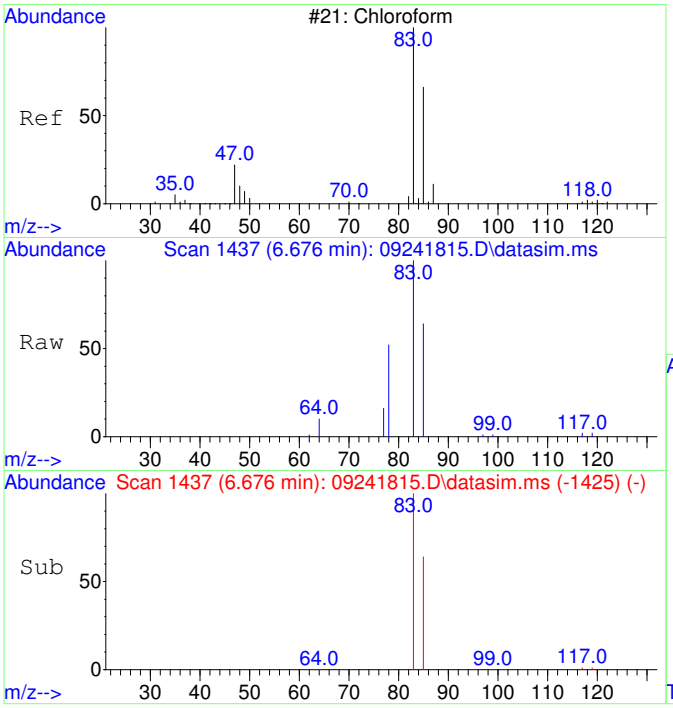


#5
cis-1,2-Dichloroethene
Concen: 3708.03 ug/L
RT: 6.107 min Scan# 1373
Delta R.T. 0.006 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 61 Resp: 21883

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.2	62.2

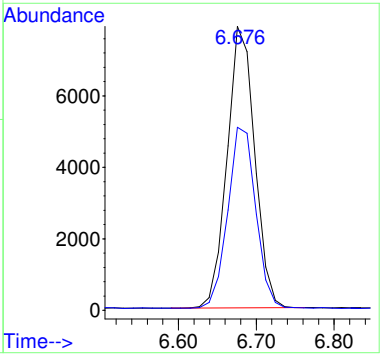


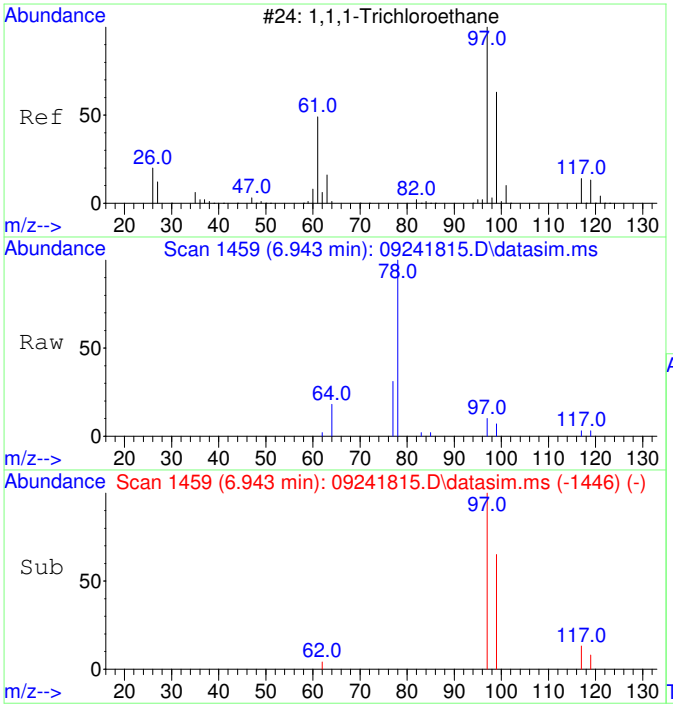


#6
Chloroform
Concen: 3057.98 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 83 Resp: 19432

Ion	Ratio	Lower	Upper
83	100		
85	65.3	34.8	94.8

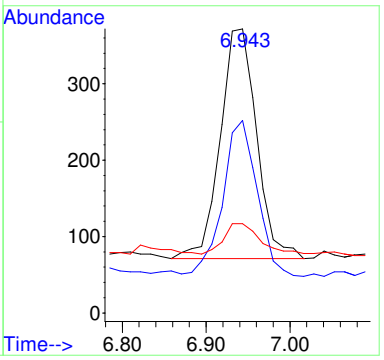


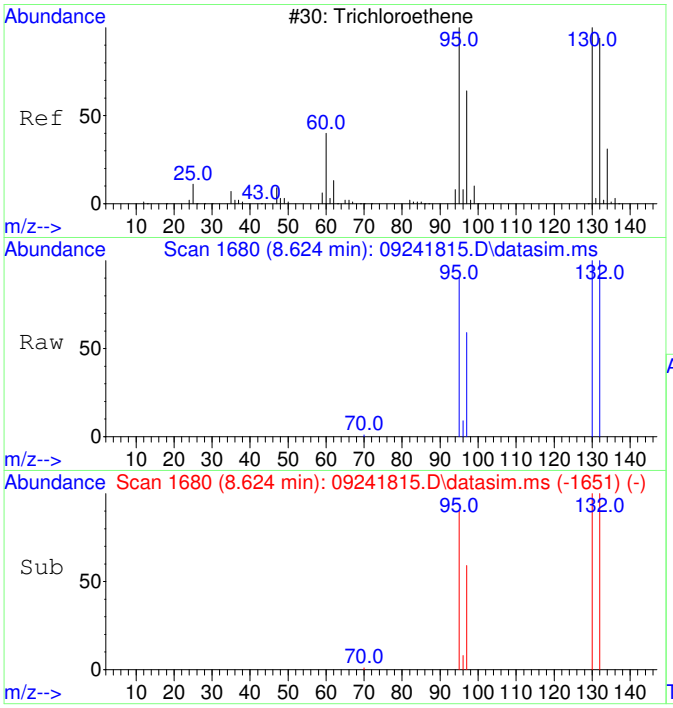


#7
1,1,1-Trichloroethane
Concen: 145.01 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 97 Resp: 907

Ion	Ratio	Lower	Upper
97	100		
99	64.1	34.6	94.6
117	13.1	0.0	42.9

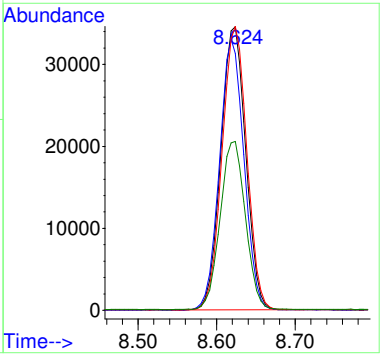


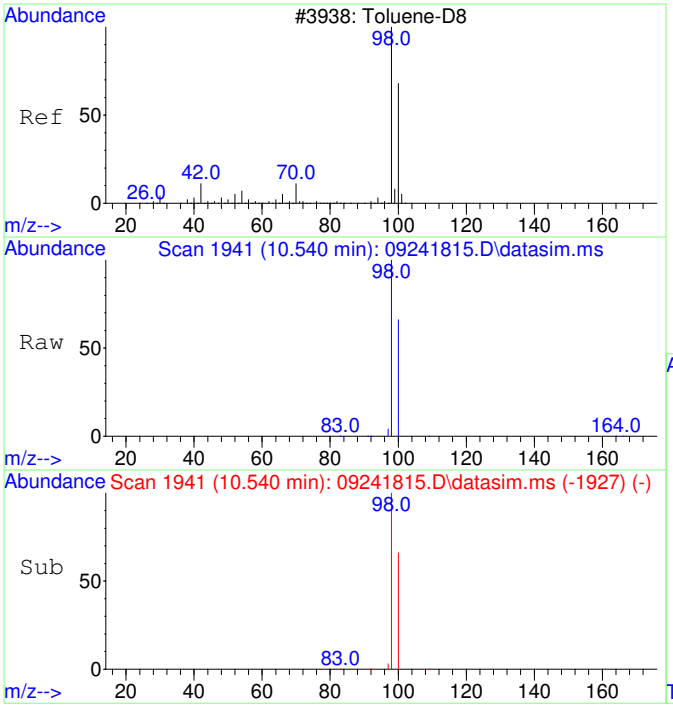


#11
Trichloroethene
Concen: 16010.38 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion:130 Resp: 75941

Ion	Ratio	Lower	Upper
130	100		
95	93.9	66.0	126.0
132	99.4	78.8	118.8
97	60.2	41.9	81.9

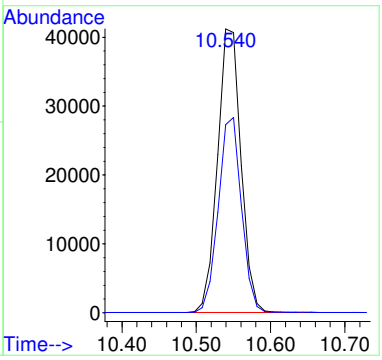


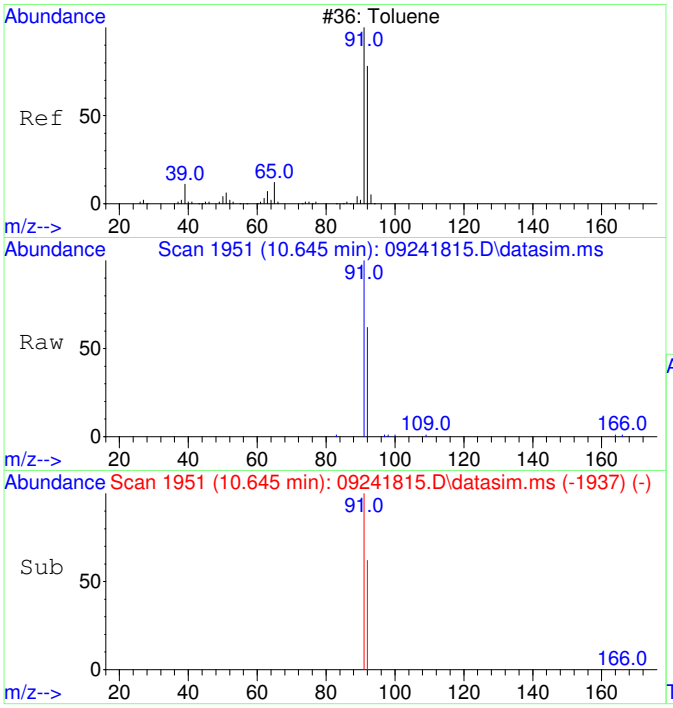


#12
Toluene-d8
Concen: 5153.63 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 98 Resp: 89978

Ion	Ratio	Lower	Upper
98	100		
100	67.8	38.7	98.7

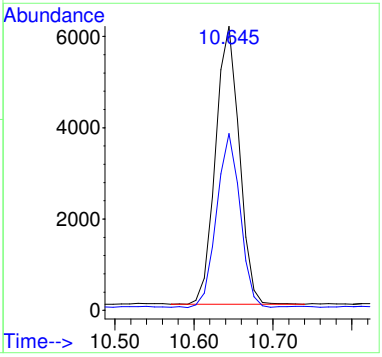


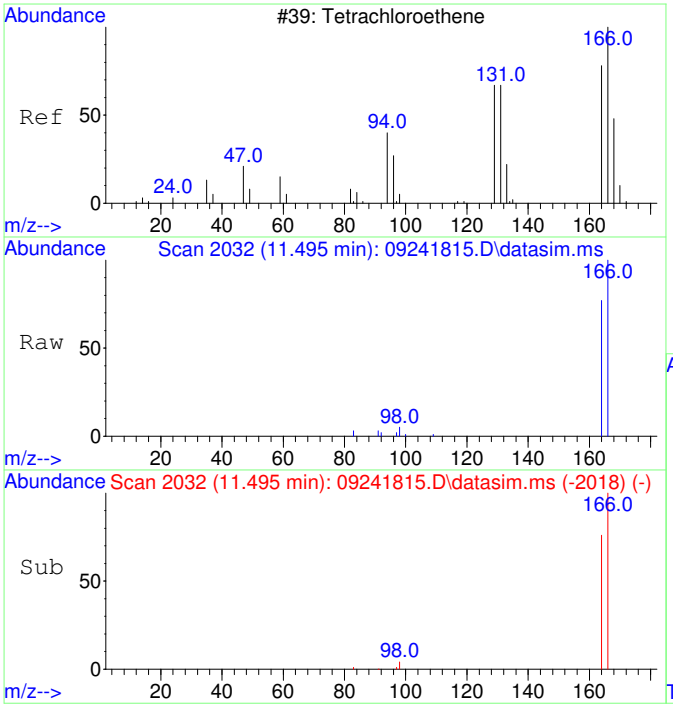


#13
Toluene
Concen: 542.66 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 91 Resp: 12703

Ion	Ratio	Lower	Upper
91	100		
92	61.5	30.0	90.0

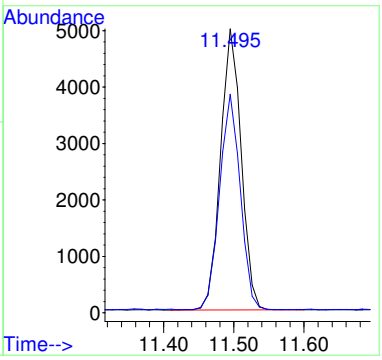


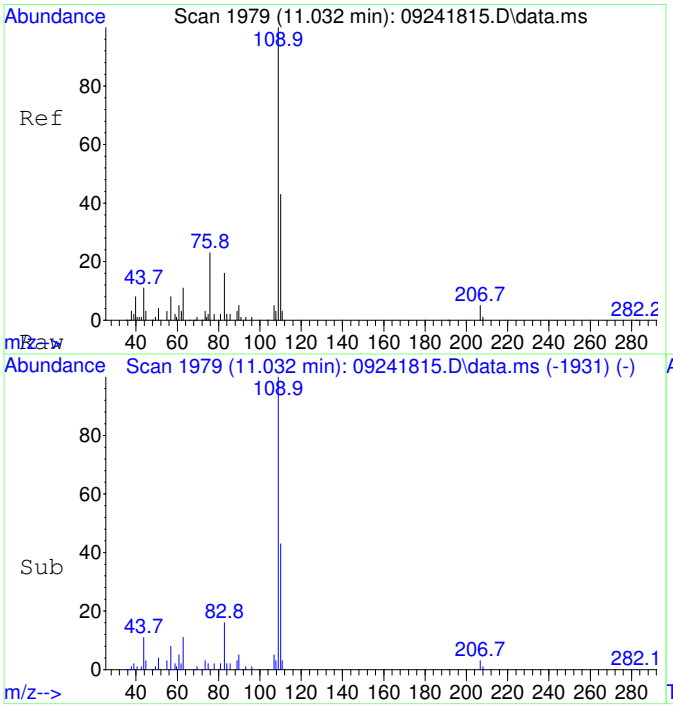


#15
Tetrachloroethene
Concen: 1551.40 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion:166 Resp: 10232

Ion	Ratio	Lower	Upper
166	100		
164	76.4	47.8	107.8

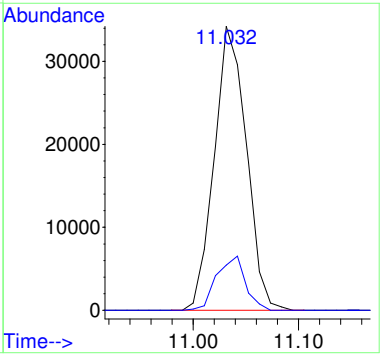


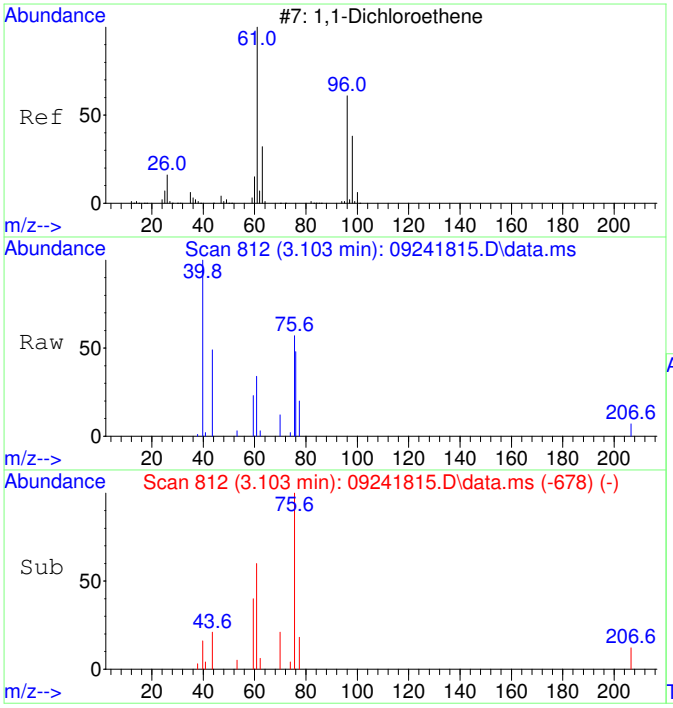


#25
2-Fluorotoluene SCAN
Concen: 5806.02 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion:109 Resp: 72721

Ion	Ratio	Lower	Upper
109	100		
83	17.0	0.0	45.7

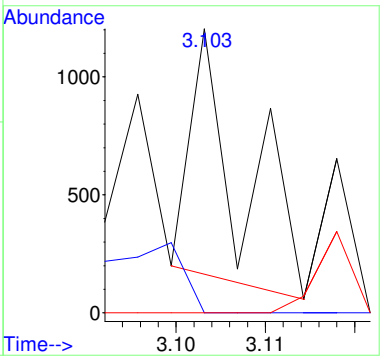


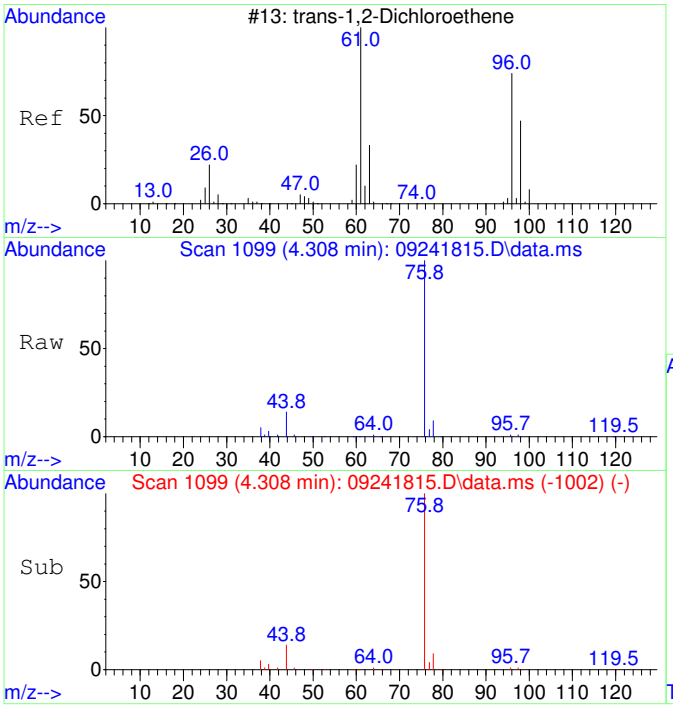


#26
1,1-Dichloroethene SCAN
Concen: 128.30 ug/L
RT: 3.103 min Scan# 812
Delta R.T. -0.004 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 61 Resp: 401

Ion	Ratio	Lower	Upper
61	100		
96	49.9	23.8	83.8
98	23.2	8.8	68.8

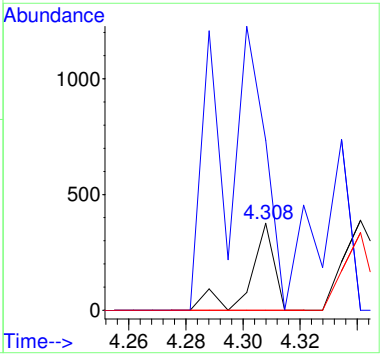


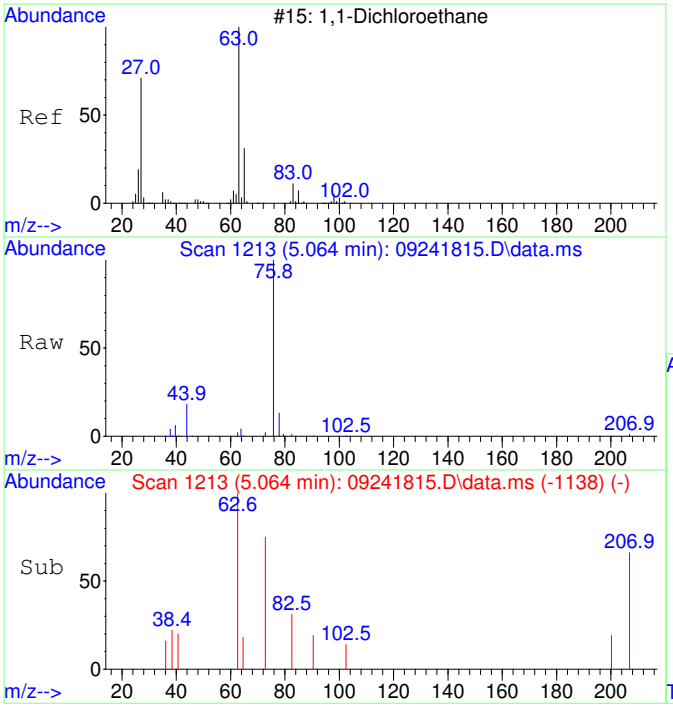


#27
trans-1,2-Dichloroethene SCAN
Concen: 59.64 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 61 Resp: 217

Ion	Ratio	Lower	Upper
61	100		
96	621.7	37.9	97.9#
98	0.0	12.7	72.7#

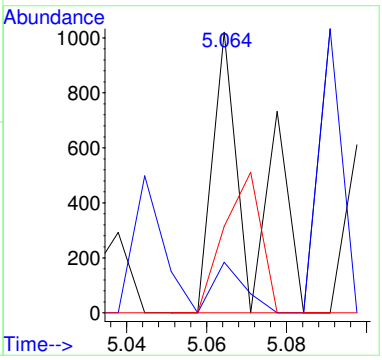


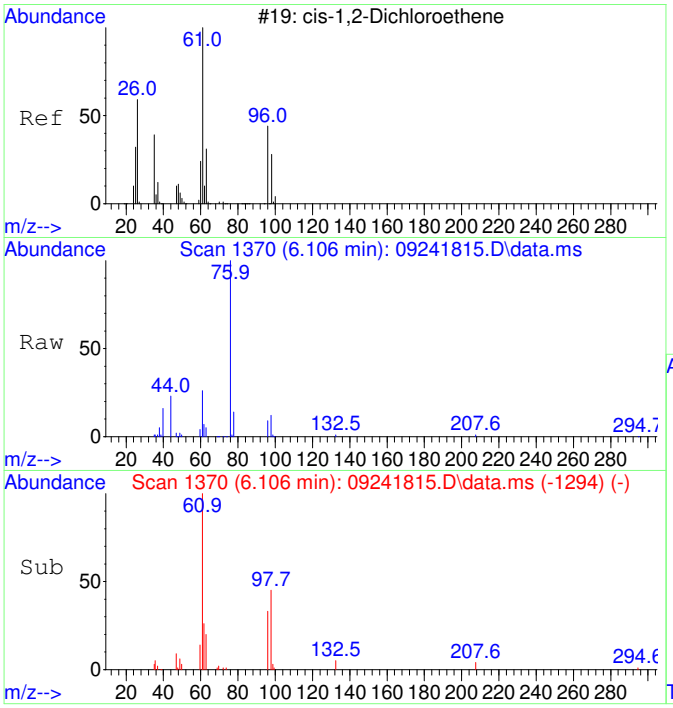


#28
1,1-Dichloroethane SCAN
Concen: 150.79 ug/L
RT: 5.064 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 63 Resp: 698

Ion	Ratio	Lower	Upper
63	100		
65	14.5	7.5	67.5
83	47.0	0.0	34.3#

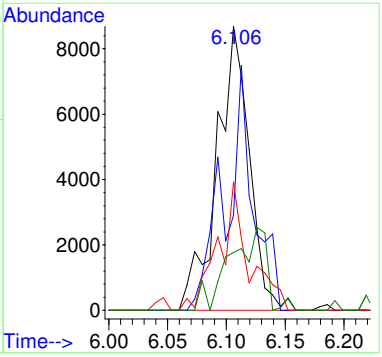


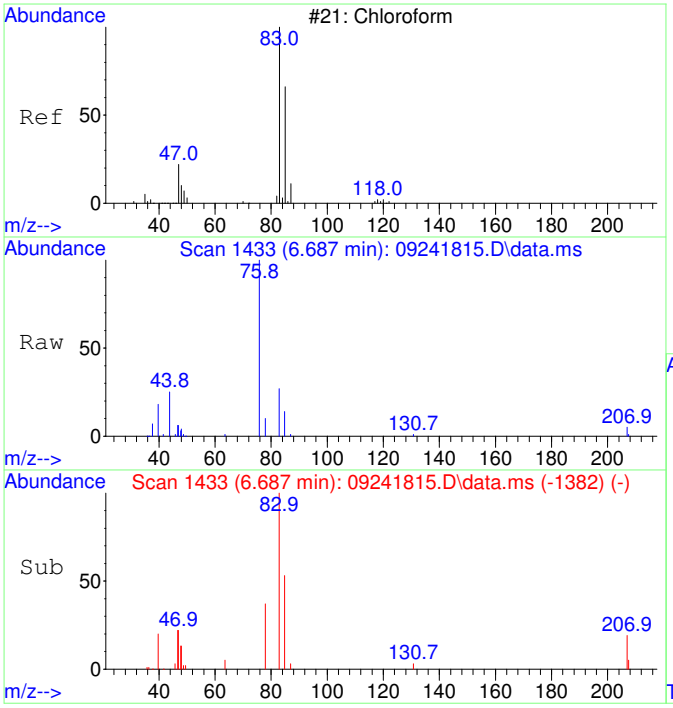


#29
cis-1,2-Dichloroethene SCAN
Concen: 4172.51 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. 0.006 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 61 Resp: 16704

Ion	Ratio	Lower	Upper
61	100		
96	31.5	28.2	88.2
98	41.6	14.1	74.1
63	29.3	1.5	61.5

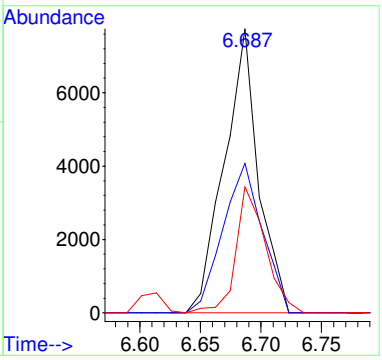


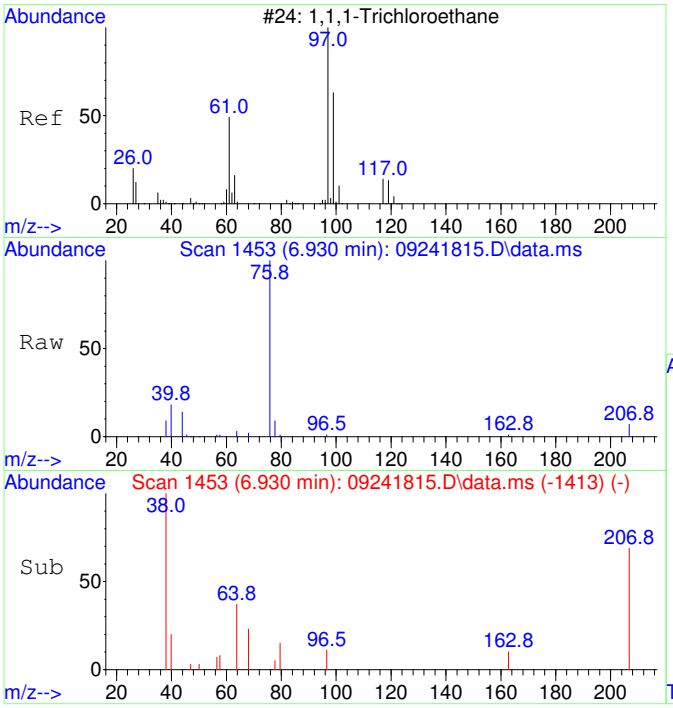


#30
Chloroform SCAN
Concen: 3101.03 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 83 Resp: 15238

Ion	Ratio	Lower	Upper
83	100		
85	61.1	32.6	92.6
47	38.6	0.0	57.9

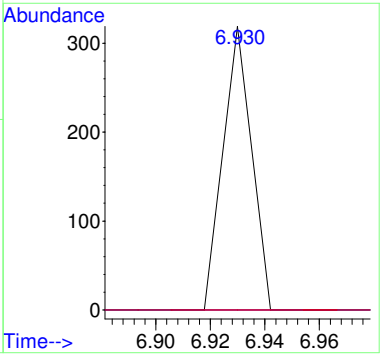


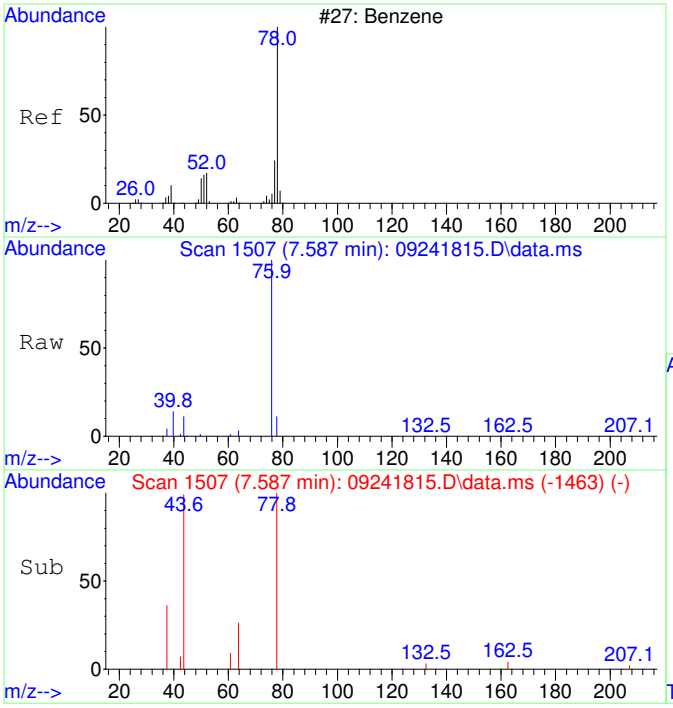


#31
1,1,1-Trichloroethane SCAN
Concen: 53.27 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. -0.012 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 97 Resp: 233

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

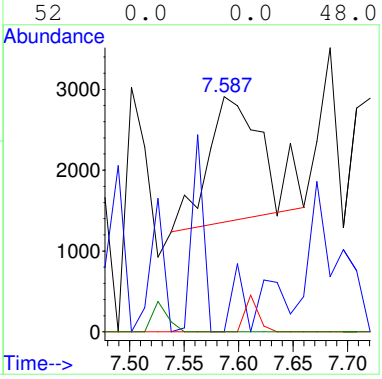


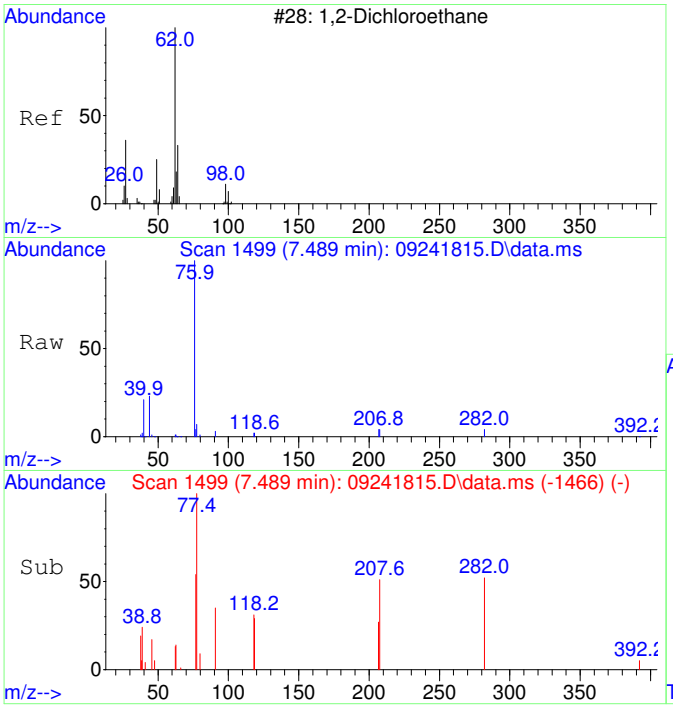


#33
Benzene SCAN
Concen: 424.48 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. 0.036 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 78 Resp: 5537

Ion	Ratio	Lower	Upper
78	100		
77	0.0	3.0	63.0#
51	0.0	0.0	56.4
52	0.0	0.0	48.0

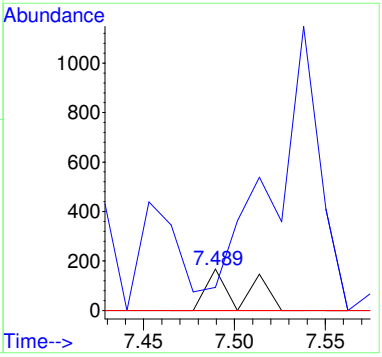


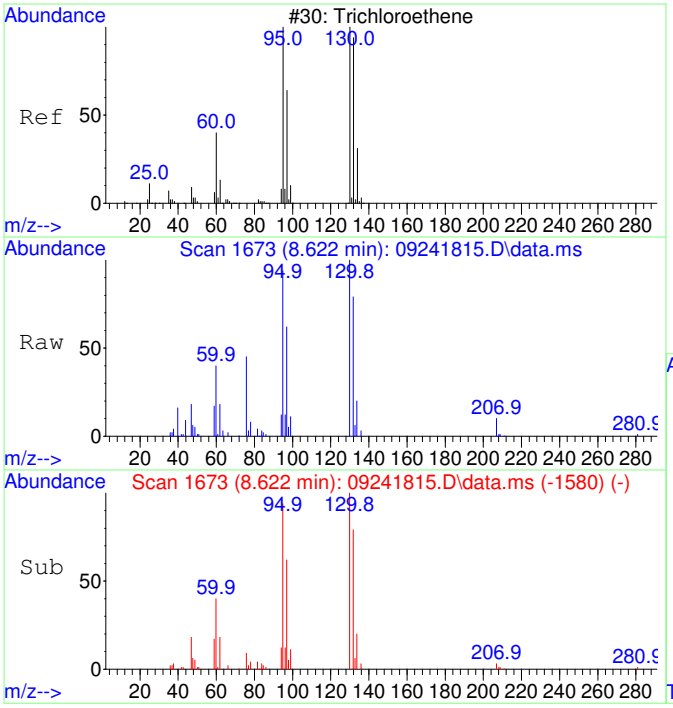


#34
1,2-Dichloroethane SCAN
Concen: 51.70 ug/L
RT: 7.489 min Scan# 1499
Delta R.T. -0.097 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 62 Resp: 230

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	0.0	10.4	70.4#

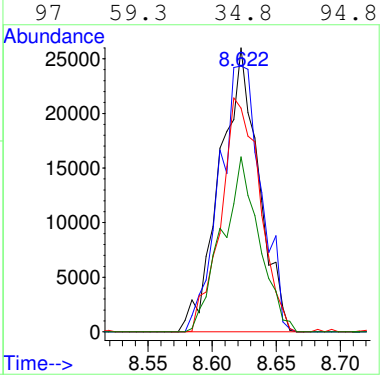


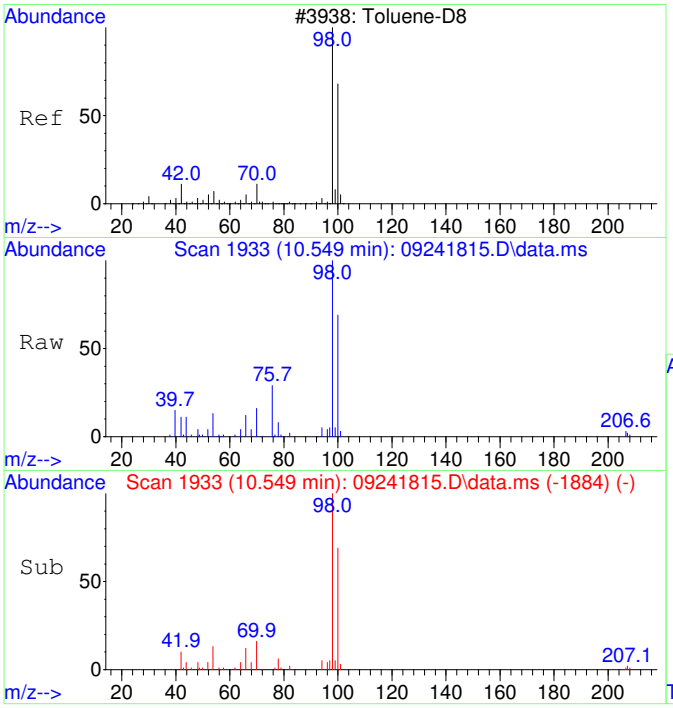


#35
Trichloroethene SCAN
Concen: 17140.48 ug/L
RT: 8.622 min Scan# 1673
Delta R.T. 0.005 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion:130 Resp: 54713

Ion	Ratio	Lower	Upper
130	100		
95	101.0	70.5	130.5
132	82.9	63.8	123.8
97	59.3	34.8	94.8

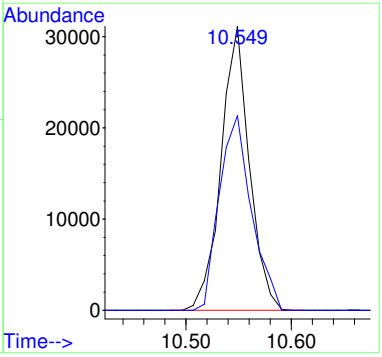


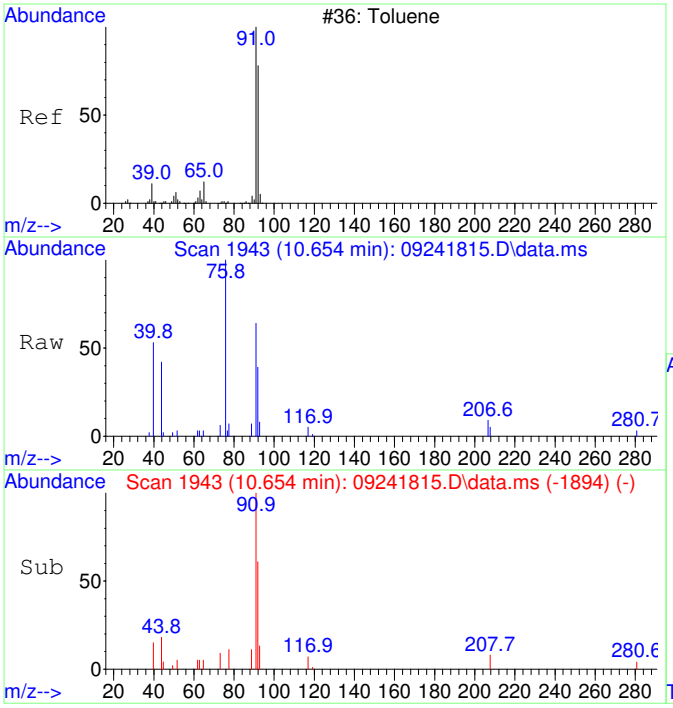


#36
Toluene-d8 SCAN
Concen: 5139.00 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 98 Resp: 58187

Ion	Ratio	Lower	Upper
98	100		
100	78.3	39.5	99.5

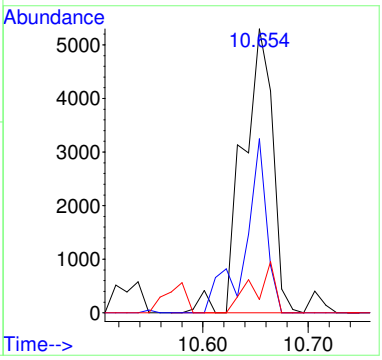


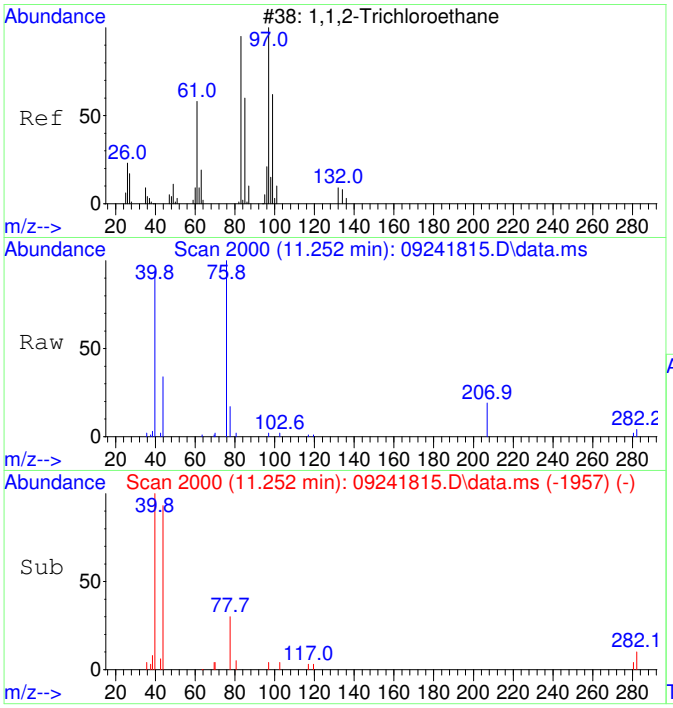


#37
Toluene SCAN
Concen: 720.43 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 91 Resp: 10420

Ion	Ratio	Lower	Upper
91	100		
92	44.6	26.6	86.6
65	12.9	0.0	42.3

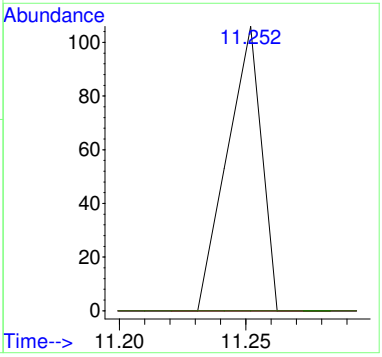


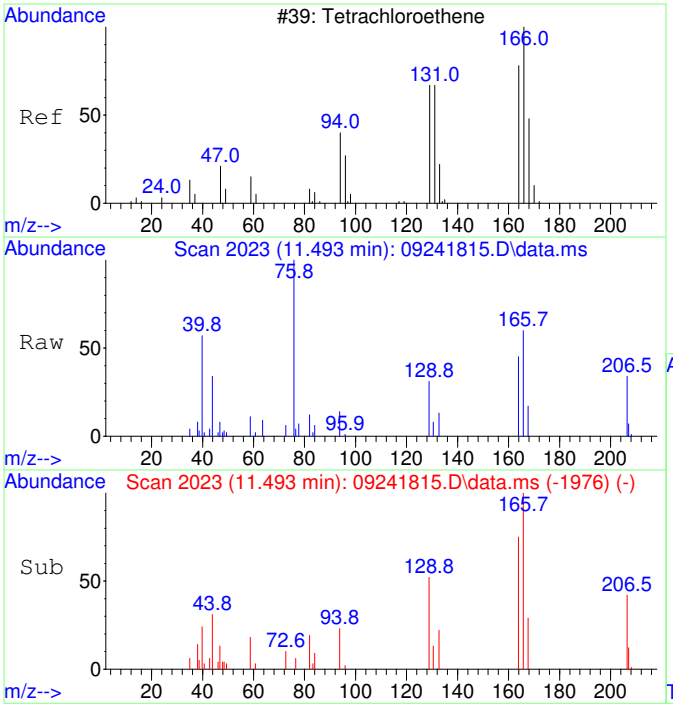


#38
1,1,2-Trichloroethane SCAN
Concen: 36.08 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. -0.053 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 97 Resp: 100

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

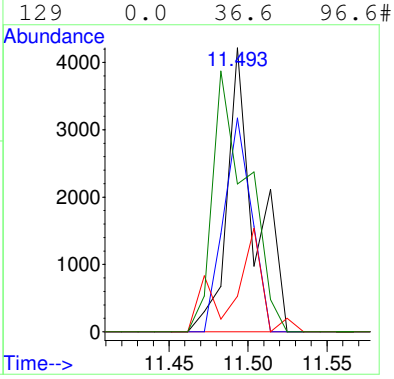


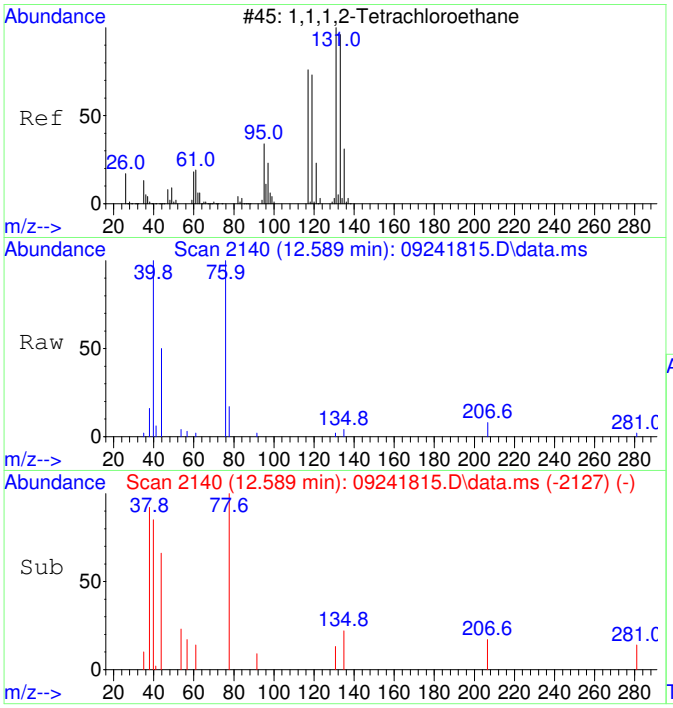


#39
Tetrachloroethene SCAN
Concen: 1643.12 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.011 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion:166 Resp: 5215

Ion	Ratio	Lower	Upper
166	100		
164	74.8	43.3	103.3
131	39.8	35.6	95.6
129	0.0	36.6	96.6#

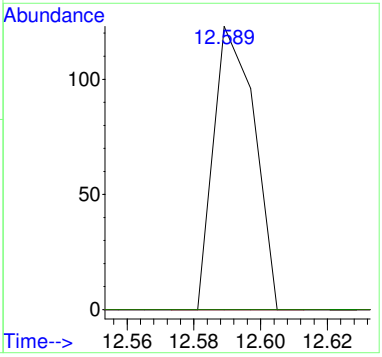


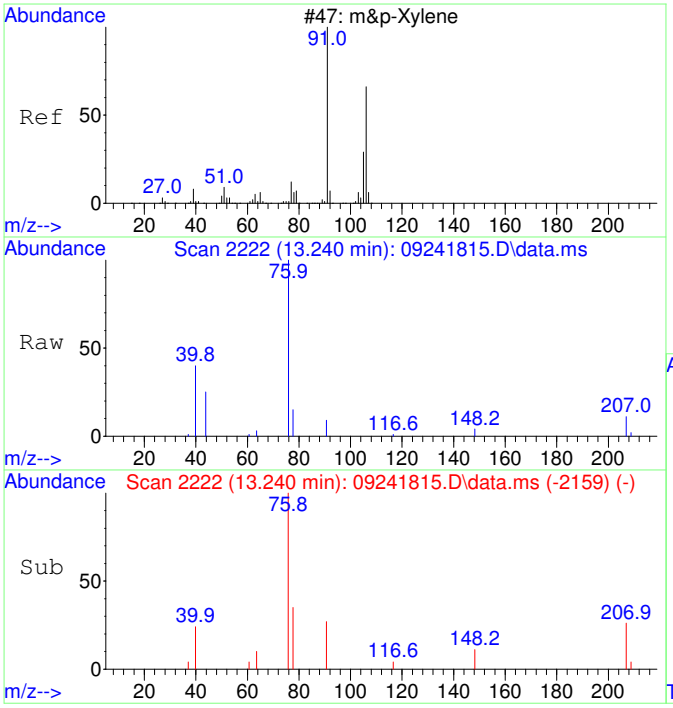


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 33.21 ug/L
RT: 12.589 min Scan# 2140
Delta R.T. -0.397 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion:131 Resp: 104

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

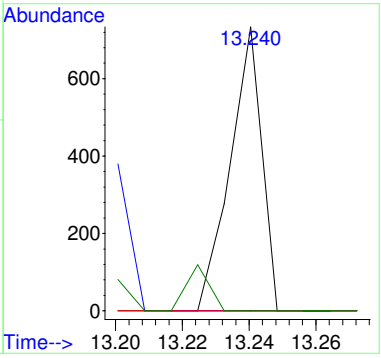




#43
m&p-Xylene SCAN
Concen: 20.61 ug/L
RT: 13.240 min Scan# 2222
Delta R.T. -0.000 min
Lab File: 09241815.D
Acq: 24 Sep 2018 17:47

Tgt Ion: 91 Resp: 481

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	0.0	0.0	51.1
51	11.9	0.0	40.7



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory

SDG: 18260B

Client: California Site Cleanup Section 3

Project: MEW OU3 2018 Air and Sewer Gas Investigation

Instrument ID: AG5975CV

Calibration: 1806010

Sequence: S18I078

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
B18I067-MRL1	1,1-Dichloroethene	0.131	0.141	108	ug/m³ Air	50 - 150
	trans-1,2-Dichloroethene	0.160	0.180	112	ug/m³ Air	50 - 150
	1,1-Dichloroethane	0.157	0.197	125	ug/m³ Air	50 - 150
	cis-1,2-Dichloroethene	0.160	0.195	122	ug/m³ Air	50 - 150
	Chloroform	0.132	0.164	124	ug/m³ Air	50 - 150
	Trichloroethene	0.144	0.180	125	ug/m³ Air	50 - 150
	Tetrachloroethene	0.168	0.216	129	ug/m³ Air	50 - 150
	Toluene-d8	992	991	100	ug/m³ Air	90 - 110

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241809.D
Acq On : 24 Sep 2018 15:25
InstName : AG5975C
Operator : RH
Sample : B18I067-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 16:31:54 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

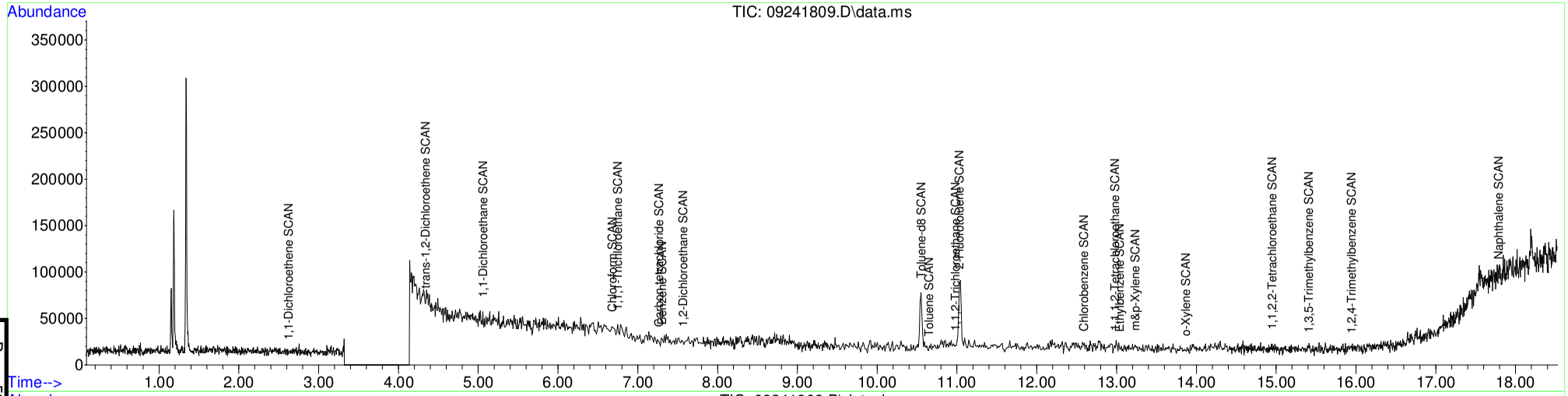
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	100827	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	81764	4992.50 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 99.85%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	725	171.58 ug/L	76
3] trans-1,2-Dichloroethene	4.303	61	253	56.12 ug/L	74
4] 1,1-Dichloroethane	5.066	63	351	62.55 ug/L	77
5] cis-1,2-Dichloroethene	6.101	61	338	61.06 ug/L	87
6] Chloroform	6.688	83	369	61.90 ug/L	95
7] 1,1,1-Trichloroethane	6.943	97	370	63.06 ug/L	91
8] Carbon tetrachloride	7.211	117	343	61.72 ug/L	80
9] Benzene	7.552	78	1181	72.95 ug/L	64
10] 1,2-Dichloroethane	7.588	62	341	65.36 ug/L #	1
11] Trichloroethene	8.624	130	278	62.48 ug/L	90
13] Toluene	10.645	91	1270	57.84 ug/L	87
14] 1,1,2-Trichloroethane	11.295	97	286	63.01 ug/L	86
15] Tetrachloroethene	11.495	166	398	64.33 ug/L	94
16] Chlorobenzene	12.837	112	886	56.53 ug/L	80
17] 1,1,1,2-Tetrachloroethane	12.988	131	365	68.63 ug/L	78
18] Ethylbenzene	13.035	91	1760	66.79 ug/L	93
19] m&p-Xylene	13.234	91	2605	128.08 ug/L	95
20] o-Xylene	13.846	91	1294	60.07 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.947	83	505	54.44 ug/L	89
22] 1,3,5-Trimethylbenzene	15.413	105	1748	71.72 ug/L	91
23] 1,2,4-Trimethylbenzene	15.954	105	1600	65.63 ug/L	98
24] Naphthalene	17.936	128	631	15.77 ug/L #	1
25) 2-Fluorotoluene SCAN	11.032	109	60338	5135.57 ug/L	95
26) 1,1-Dichloroethene SCAN	2.620	61	157	53.55 ug/L #	30
27) trans-1,2-Dichloroethe...	4.341	61	280	82.04 ug/L #	23
28) 1,1-Dichloroethane SCAN	5.058	63	89	20.50 ug/L #	43
30) Chloroform SCAN	6.675	83	347	75.28 ug/L #	28
31) 1,1,1-Trichloroethane ...	6.748	97	54	13.16 ug/L #	1
32) Carbon tetrachloride SCAN	7.258	117	178	44.03 ug/L #	13
33) Benzene SCAN	7.307	78	5630	460.12 ug/L	79
34) 1,2-Dichloroethane SCAN	7.563	62	167	40.02 ug/L #	1
36) Toluene-d8 SCAN	10.549	98	36675	3453.04 ug/L	78
37) Toluene SCAN	10.643	91	655	48.28 ug/L #	31
38) 1,1,2-Trichloroethane ...	10.979	97	181	69.62 ug/L #	10
40) Chlorobenzene SCAN	12.589	112	181	21.99 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.978	131	217	73.87 ug/L #	13
42) Ethylbenzene SCAN	13.034	91	2308	146.35 ug/L #	76
43) m&p-Xylene SCAN	13.233	91	845	38.60 ug/L #	15
44) o-Xylene SCAN	13.868	91	1570	126.01 ug/L #	50
45) 1,1,2,2-Tetrachloroeth...	14.950	83	231	39.12 ug/L #	68
46) 1,3,5-Trimethylbenzene...	15.406	105	1490	120.61 ug/L #	55
47) 1,2,4-Trimethylbenzene...	15.938	105	780	61.61 ug/L #	71
48) Naphthalene SCAN	17.782	128	1277	70.69 ug/L	87

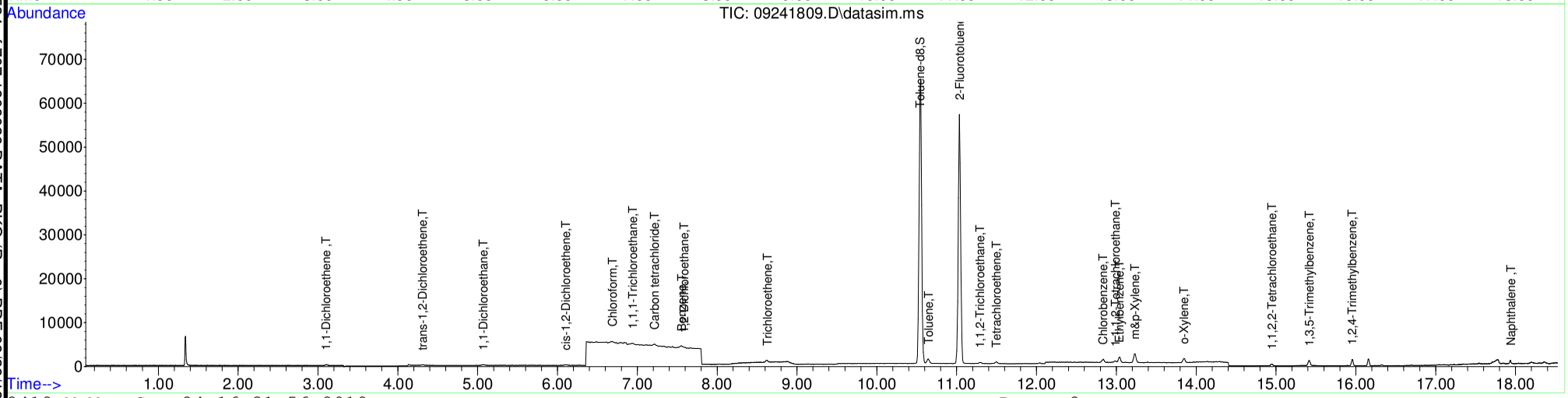
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241809.D
Acq On : 24 Sep 2018 15:25
InstName : AG5975C
Operator : RH
Sample : B18I067-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 16:31:54 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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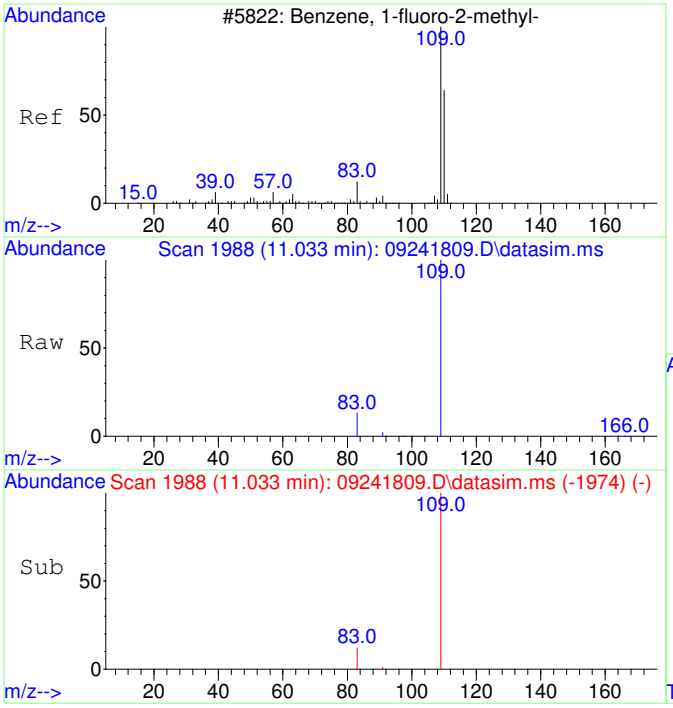
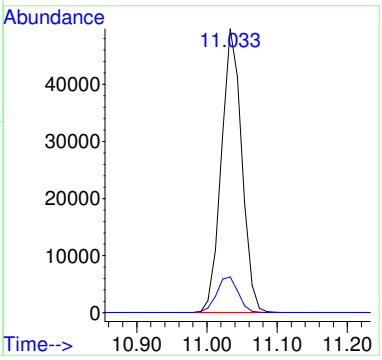
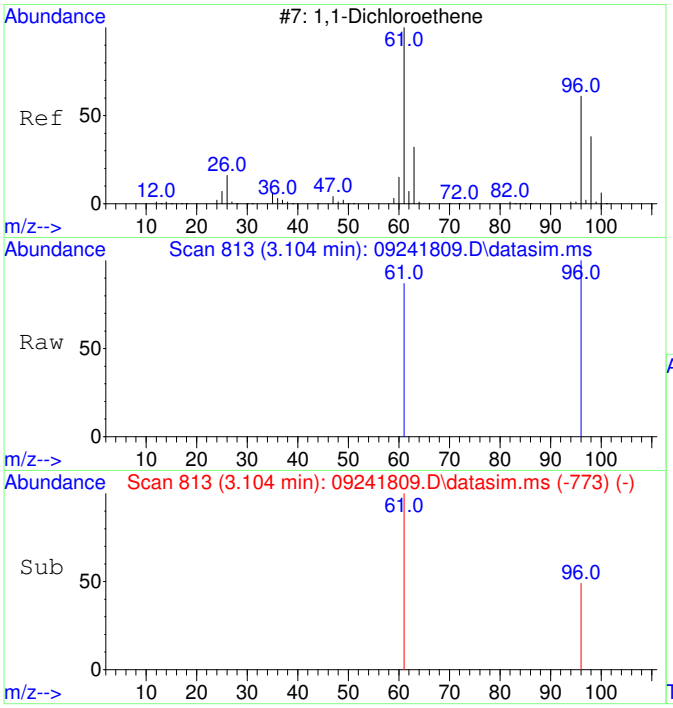


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:109 Resp: 100827

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

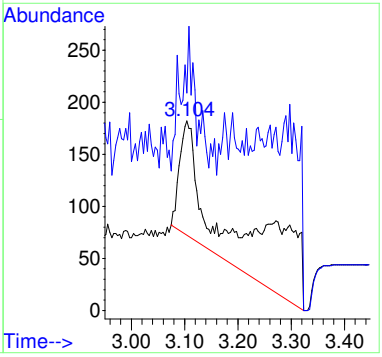


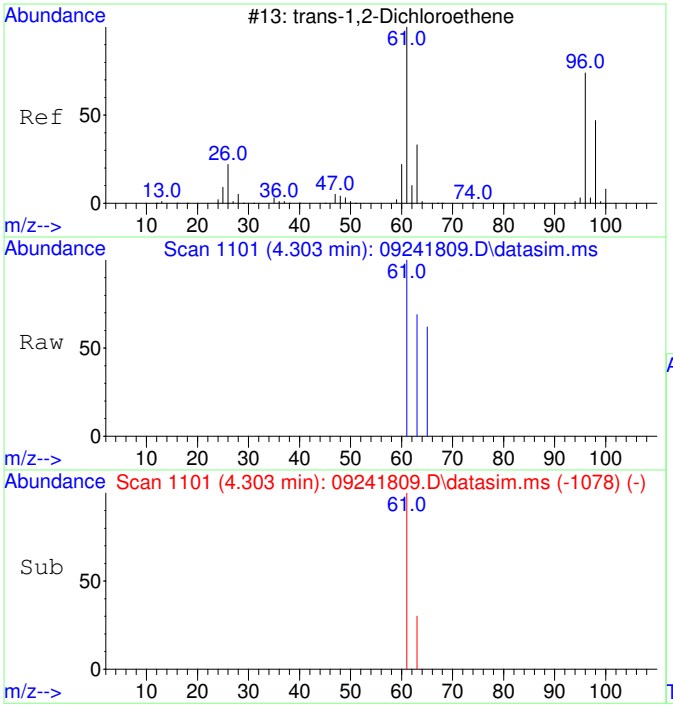


#2
1,1-Dichloroethene
Concen: 171.58 ug/L
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 725

Ion	Ratio	Lower	Upper
61	100		
96	40.6	28.7	88.7

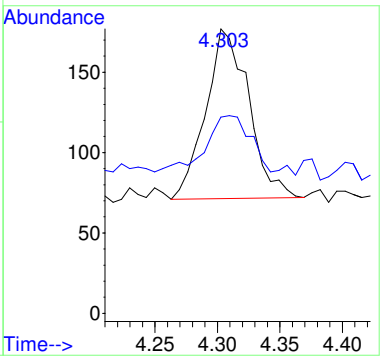


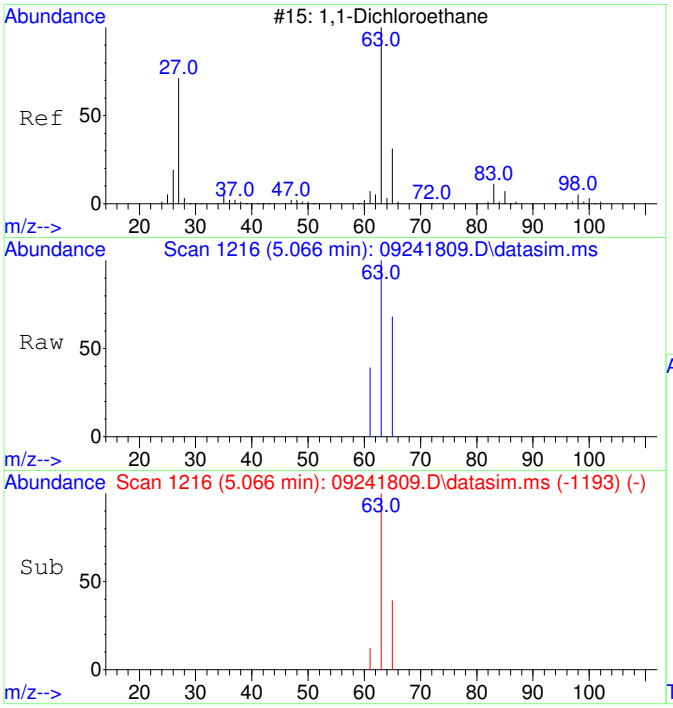


#3
trans-1,2-Dichloroethene
Concen: 56.12 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 253

Ion	Ratio	Lower	Upper
61	100		
63	46.6	2.0	62.0

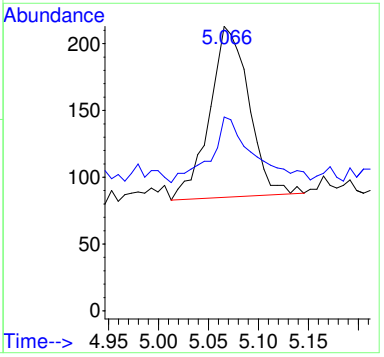


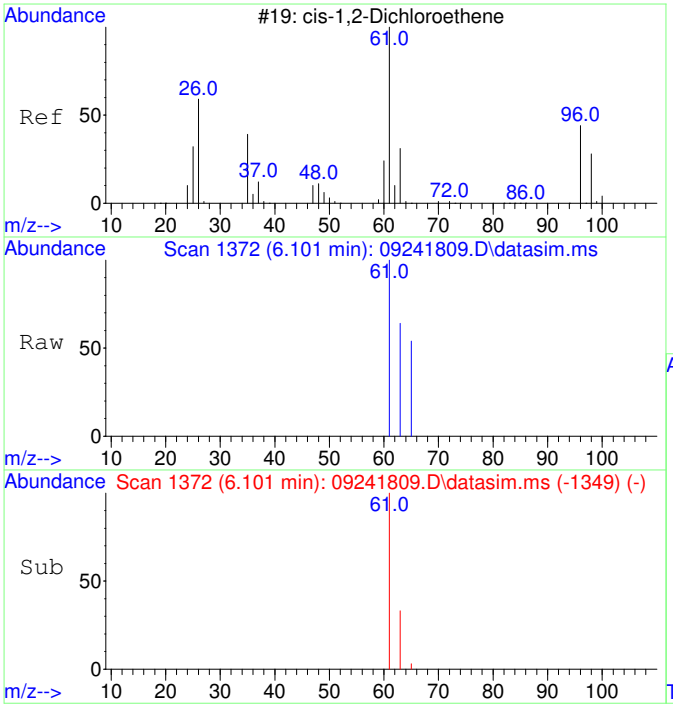


#4
1,1-Dichloroethane
Concen: 62.55 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 63 Resp: 351

Ion	Ratio	Lower	Upper
63	100		
65	44.4	1.5	61.5

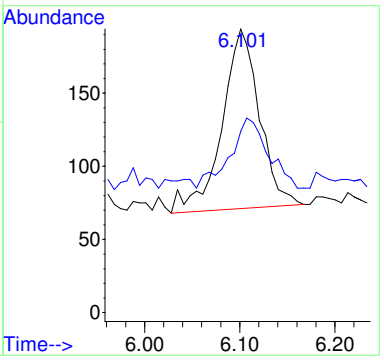


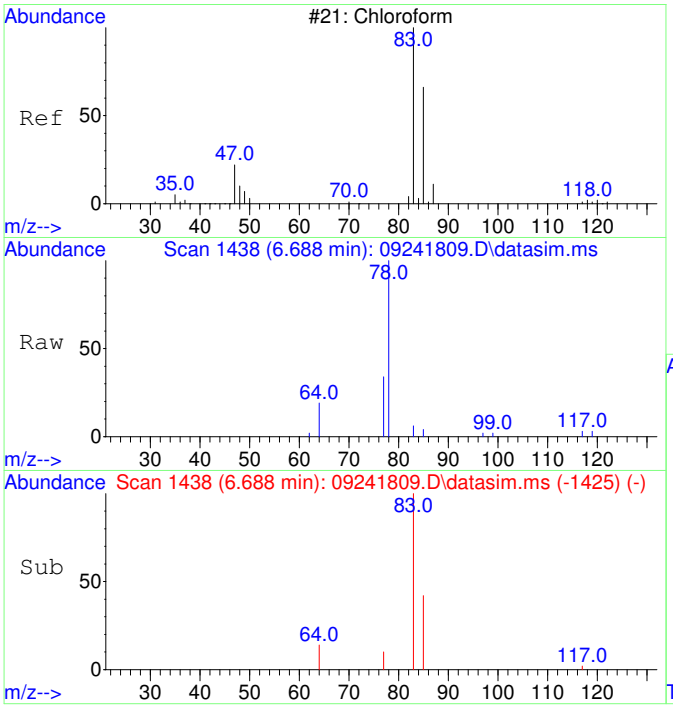


#5
cis-1,2-Dichloroethene
Concen: 61.06 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 338

Ion	Ratio	Lower	Upper
61	100		
63	39.3	2.2	62.2

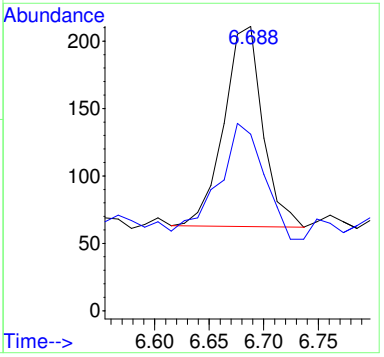


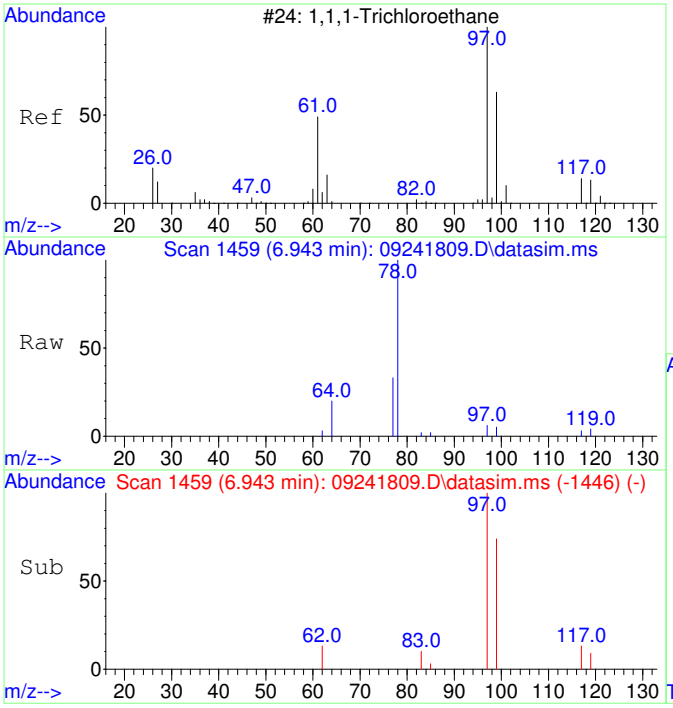


#6
Chloroform
Concen: 61.90 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 369

Ion	Ratio	Lower	Upper
83	100		
85	68.6	34.8	94.8

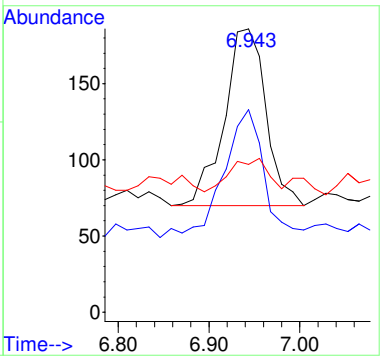


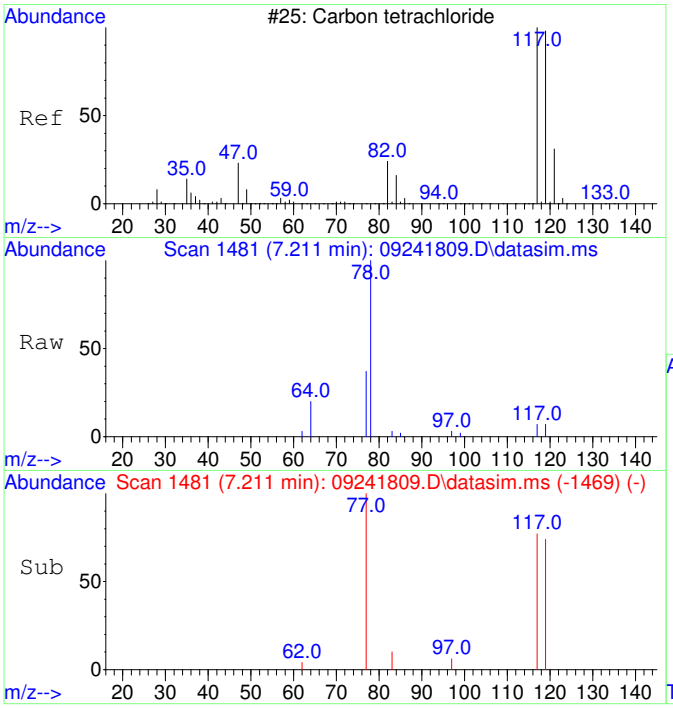


#7
1,1,1-Trichloroethane
Concen: 63.06 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 370

Ion	Ratio	Lower	Upper
97	100		
99	70.5	34.6	94.6
117	18.9	0.0	42.9

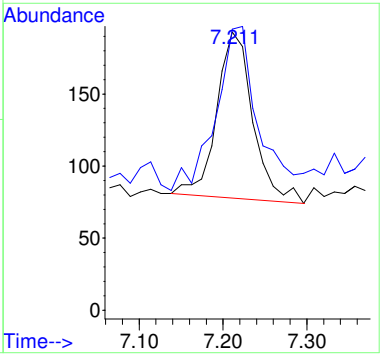


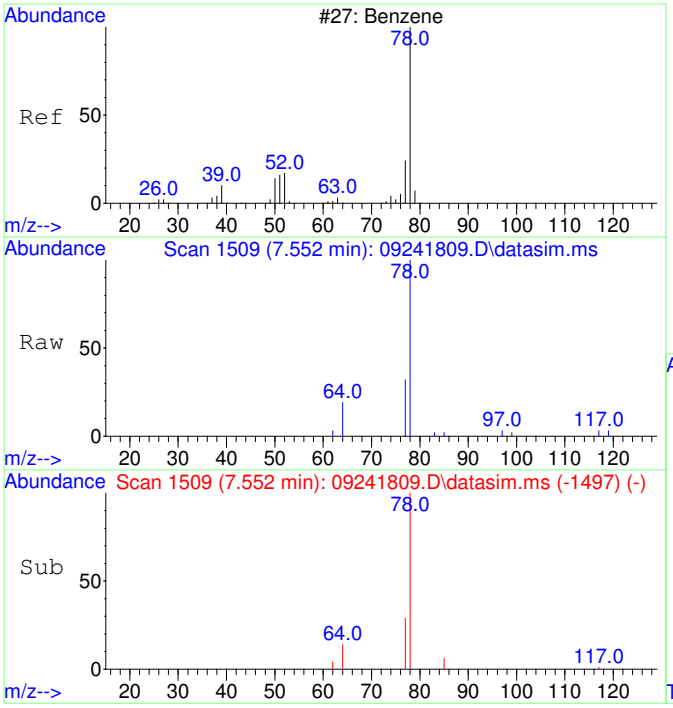


#8
Carbon tetrachloride
Concen: 61.72 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:117 Resp: 343

Ion	Ratio	Lower	Upper
117	100		
119	115.5	65.9	125.9

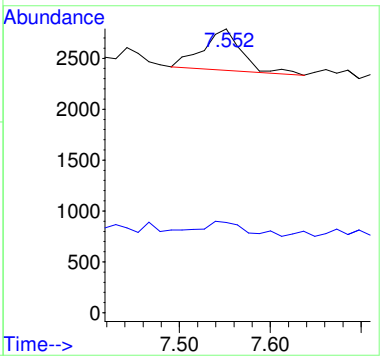


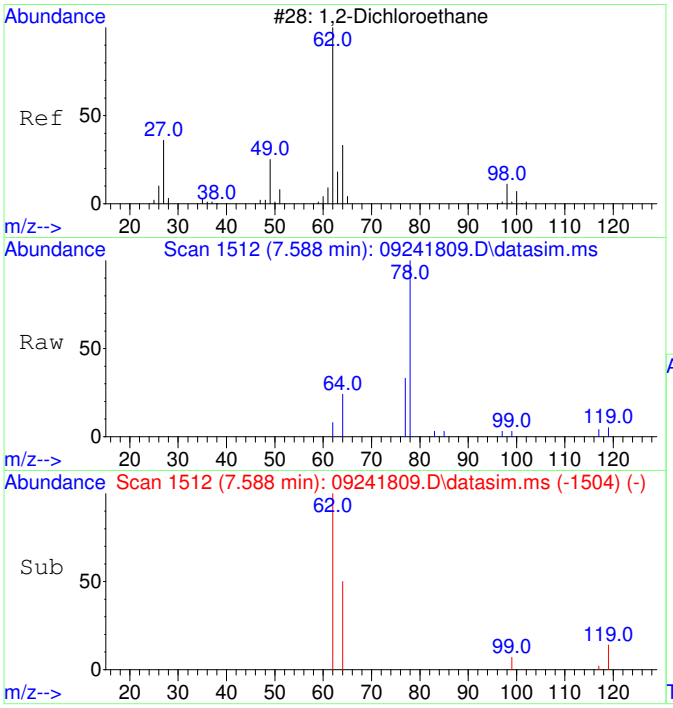


#9
Benzene
Concen: 72.95 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 78 Resp: 1181

Ion	Ratio	Lower	Upper
78	100		
77	40.4	0.0	53.0

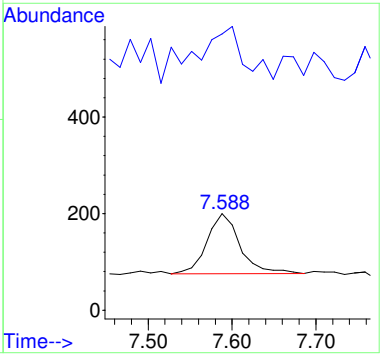


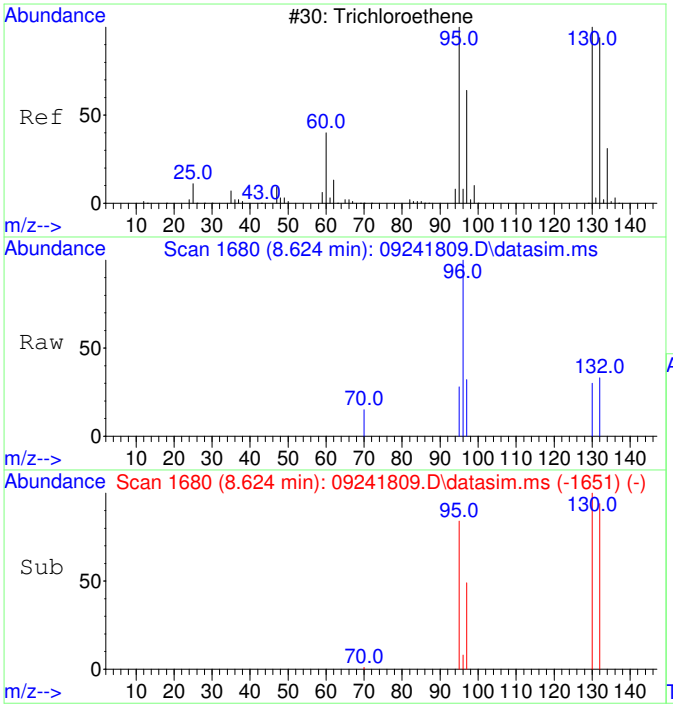


#10
1,2-Dichloroethane
Concen: 65.36 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 62 Resp: 341

Ion	Ratio	Lower	Upper
62	100		
64	129.0	2.3	62.3#

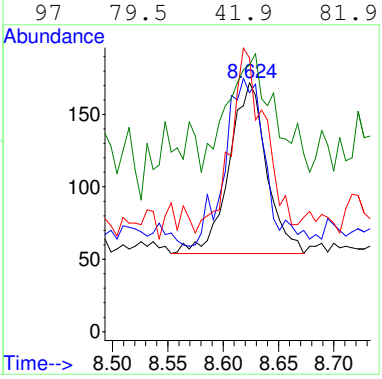


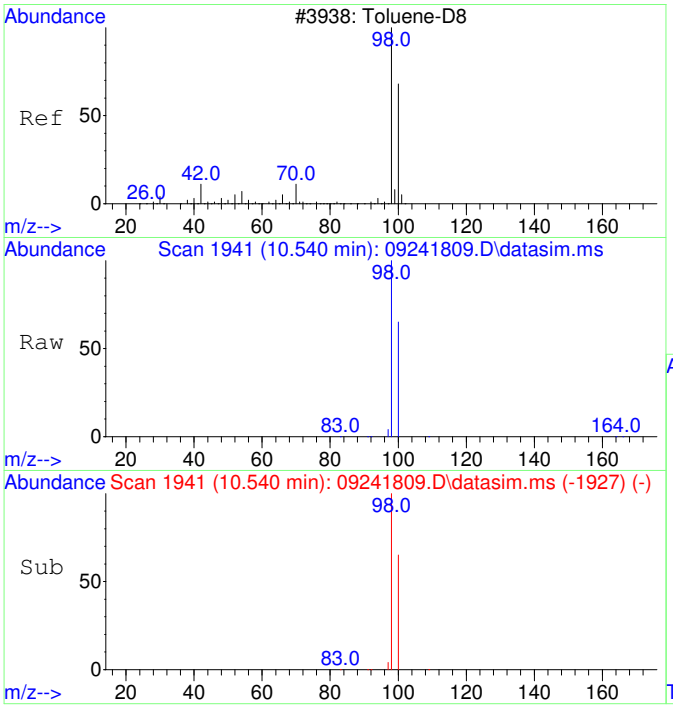


#11
Trichloroethene
Concen: 62.48 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:130 Resp: 278

Ion	Ratio	Lower	Upper
130	100		
95	106.5	66.0	126.0
132	100.0	78.8	118.8
97	79.5	41.9	81.9

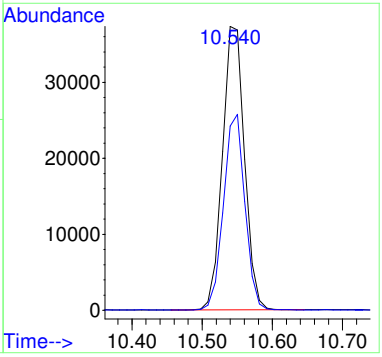


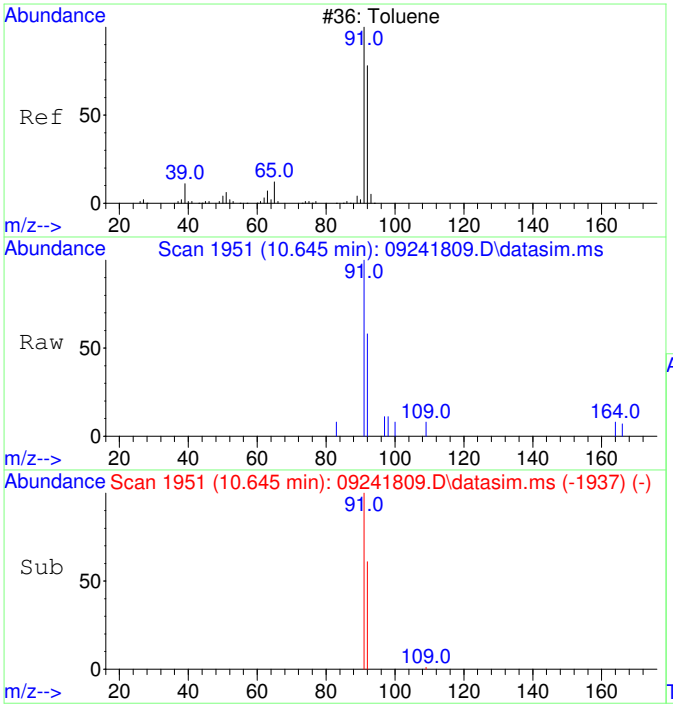


#12
Toluene-d8
Concen: 4992.50 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 98 Resp: 81764

Ion	Ratio	Lower	Upper
98	100		
100	66.8	38.7	98.7

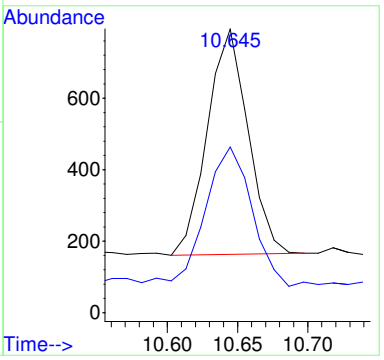


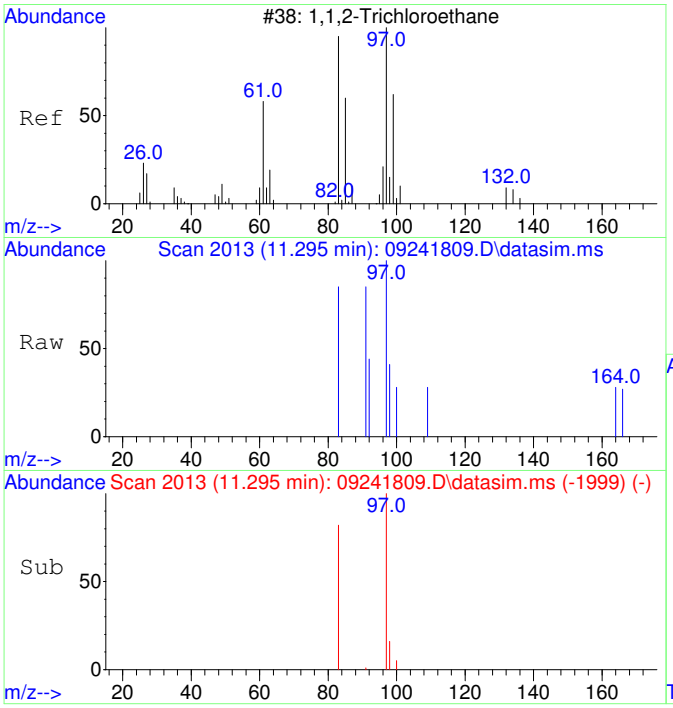


#13
Toluene
Concen: 57.84 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1270

Ion	Ratio	Lower	Upper
91	100		
92	69.5	30.0	90.0

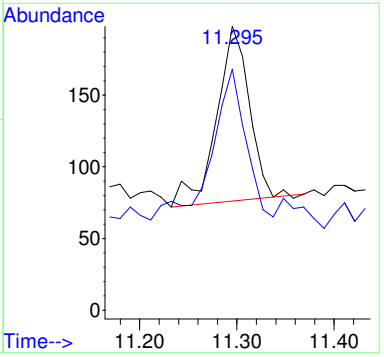


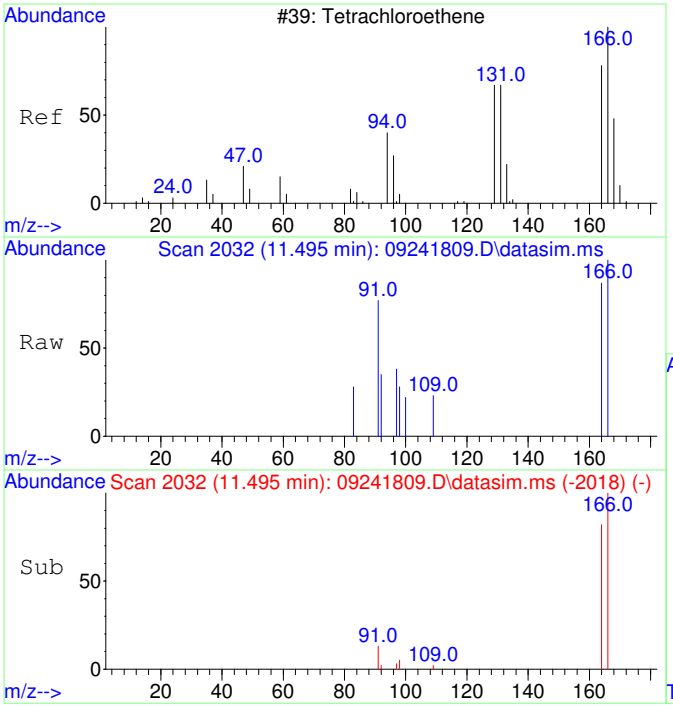


#14
1,1,2-Trichloroethane
Concen: 63.01 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 286

Ion	Ratio	Lower	Upper
97	100		
83	95.8	53.4	113.4

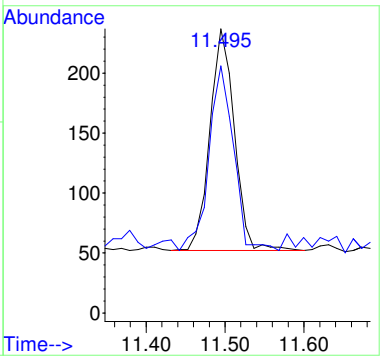


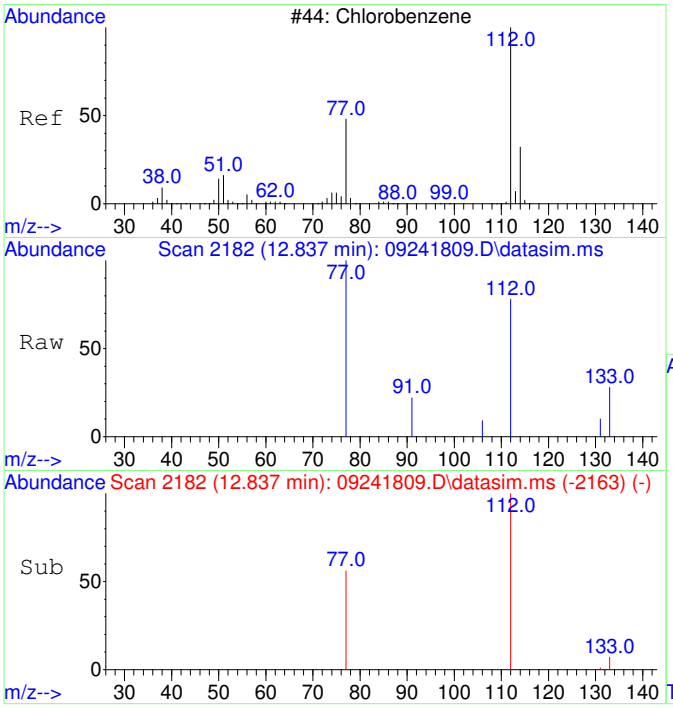


#15
Tetrachloroethene
Concen: 64.33 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:166 Resp: 398

Ion	Ratio	Lower	Upper
166	100		
164	83.4	47.8	107.8

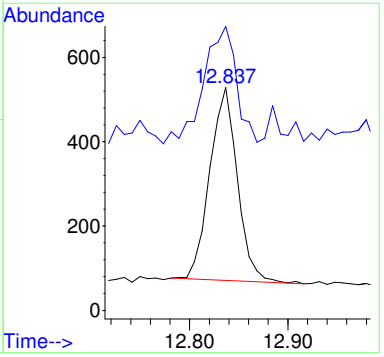


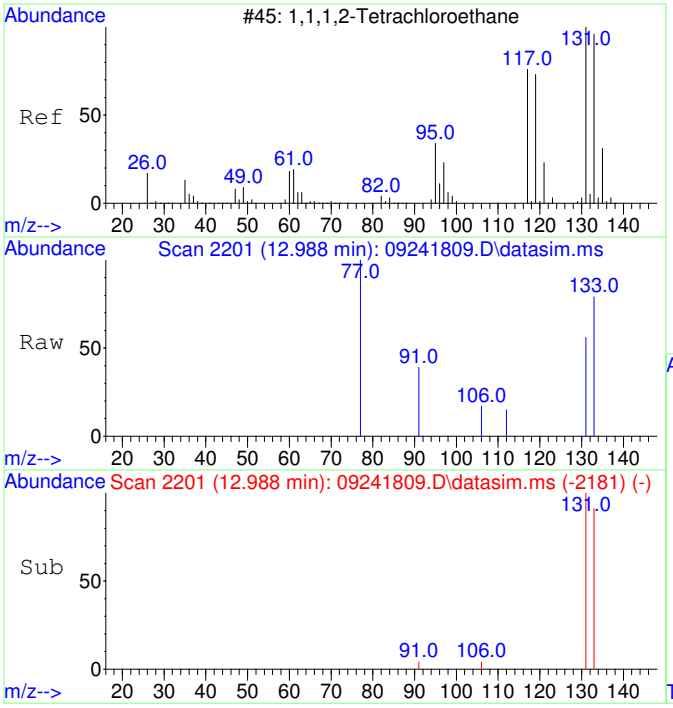


#16
Chlorobenzene
Concen: 56.53 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:112 Resp: 886

Ion	Ratio	Lower	Upper
112	100		
77	72.8	28.1	88.1

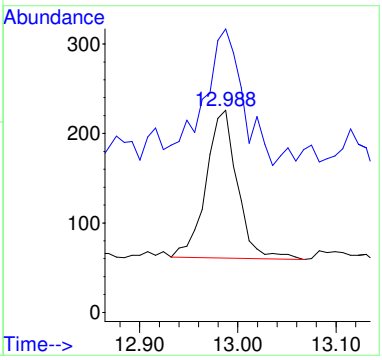


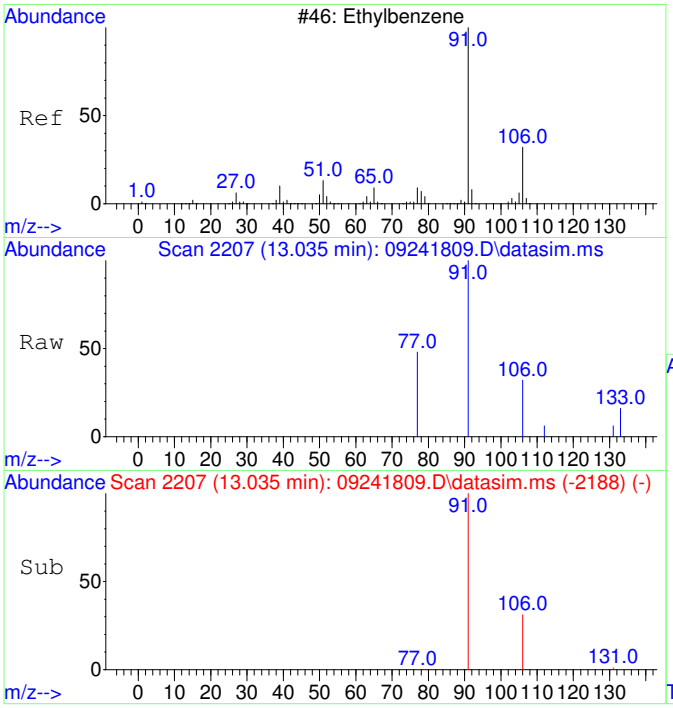


#17
1,1,1,2-Tetrachloroethane
Concen: 68.63 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:131 Resp: 365

Ion	Ratio	Lower	Upper
131	100		
133	118.1	66.2	126.2

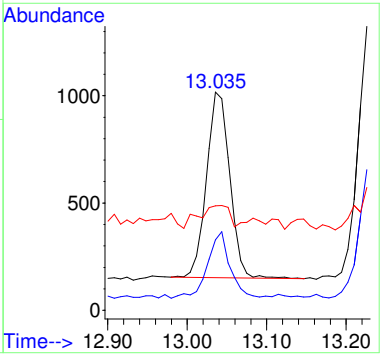


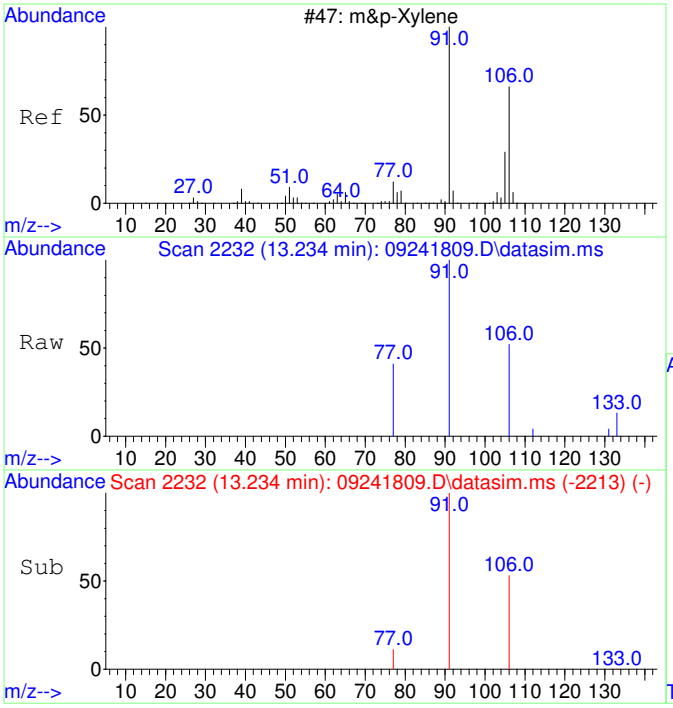


#18
Ethylbenzene
Concen: 66.79 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1760

Ion	Ratio	Lower	Upper
91	100		
106	34.7	2.8	62.8
77	16.6	0.0	38.6

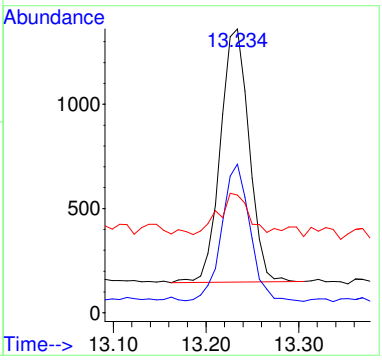


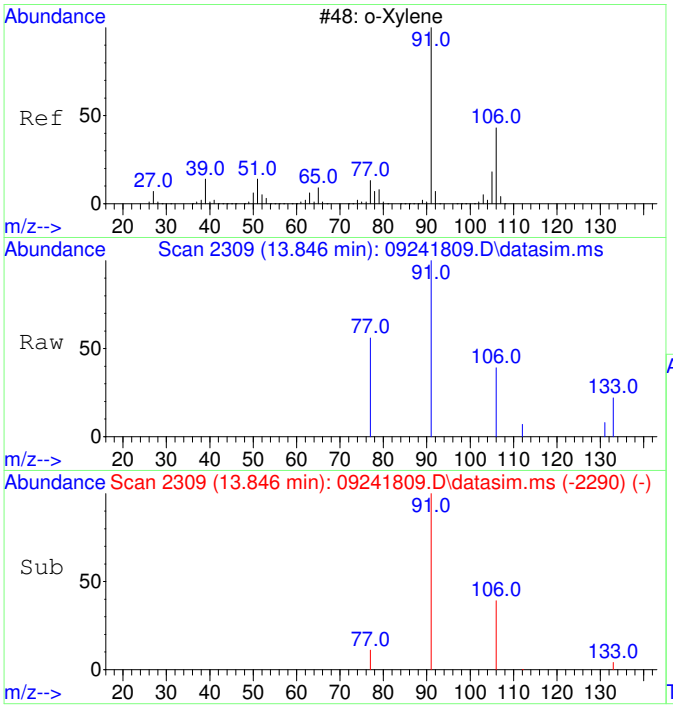


#19
m&p-Xylene
Concen: 128.08 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 2605

Ion	Ratio	Lower	Upper
91	100		
106	53.0	21.2	81.2
77	18.7	0.0	42.9

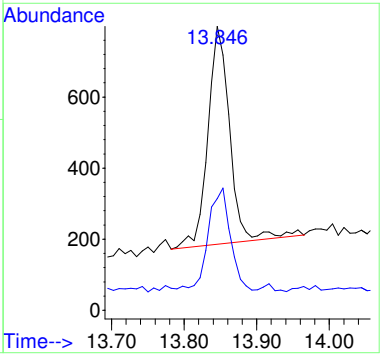


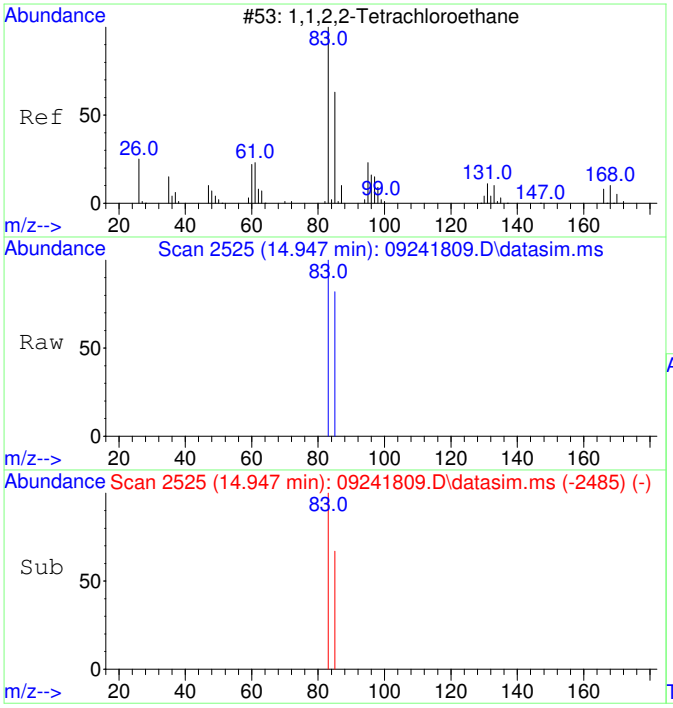


#20
o-Xylene
Concen: 60.07 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1294

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.3	78.3

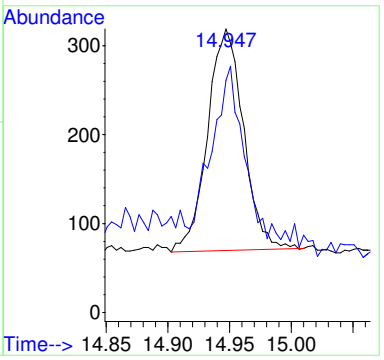


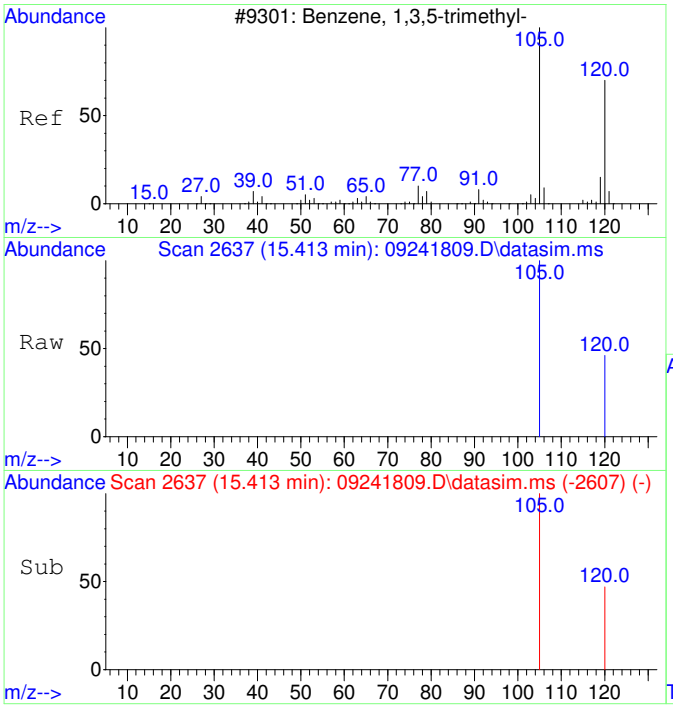


#21
1,1,2,2-Tetrachloroethane
Concen: 54.44 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 505

Ion	Ratio	Lower	Upper
83	100		
85	72.7	34.4	94.4

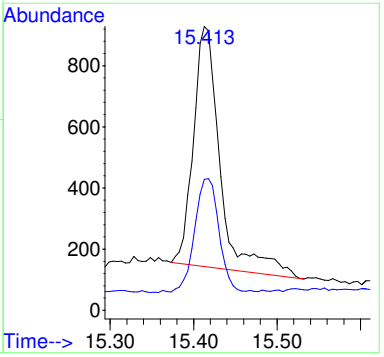


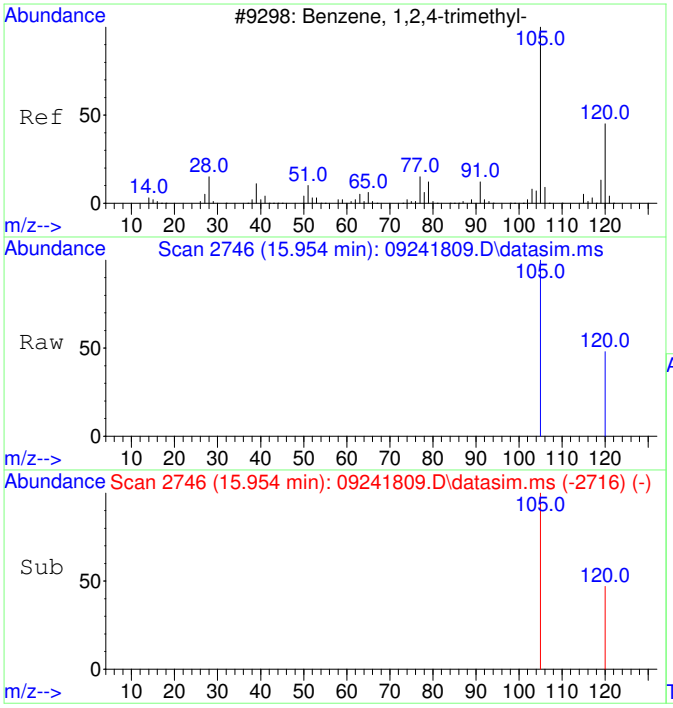


#22
1,3,5-Trimethylbenzene
Concen: 71.72 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.001 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1748

Ion	Ratio	Lower	Upper
105	100		
120	43.0	19.1	79.1

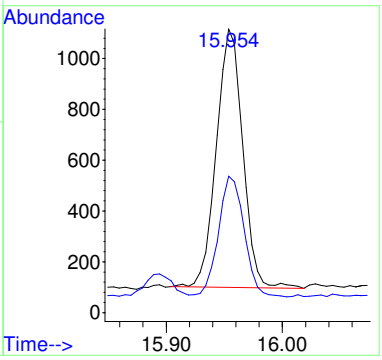


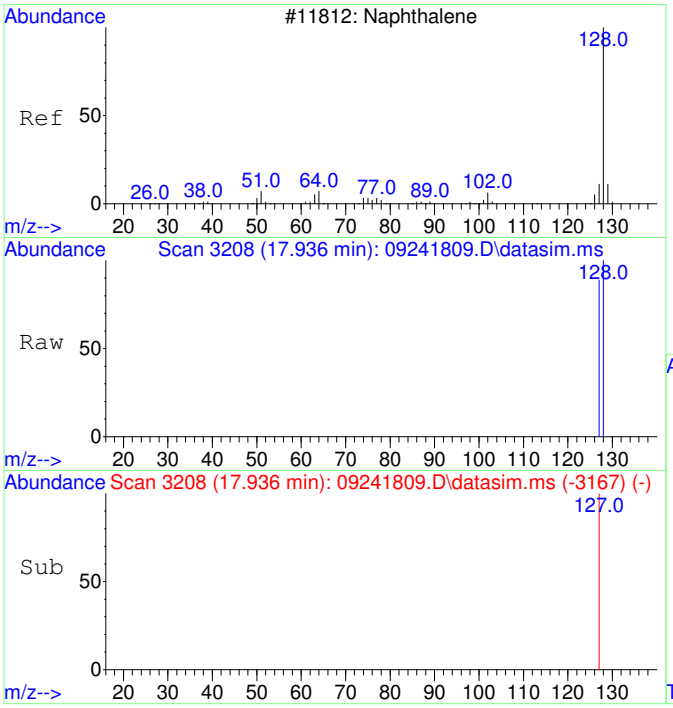


#23
1,2,4-Trimethylbenzene
Concen: 65.63 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1600

Ion	Ratio	Lower	Upper
105	100		
120	44.5	15.5	75.5

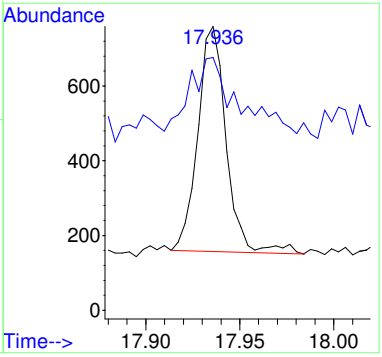


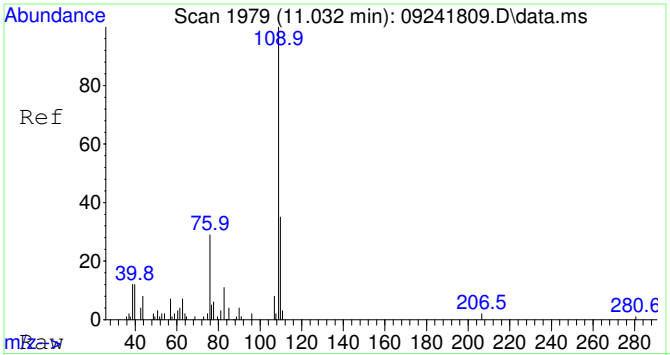


#24
Naphthalene
Concen: 15.77 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:128 Resp: 631

Ion	Ratio	Lower	Upper
128	100		
127	58.8	0.0	42.5#

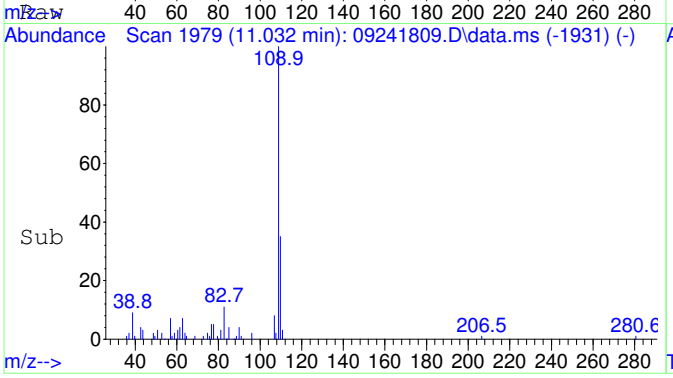


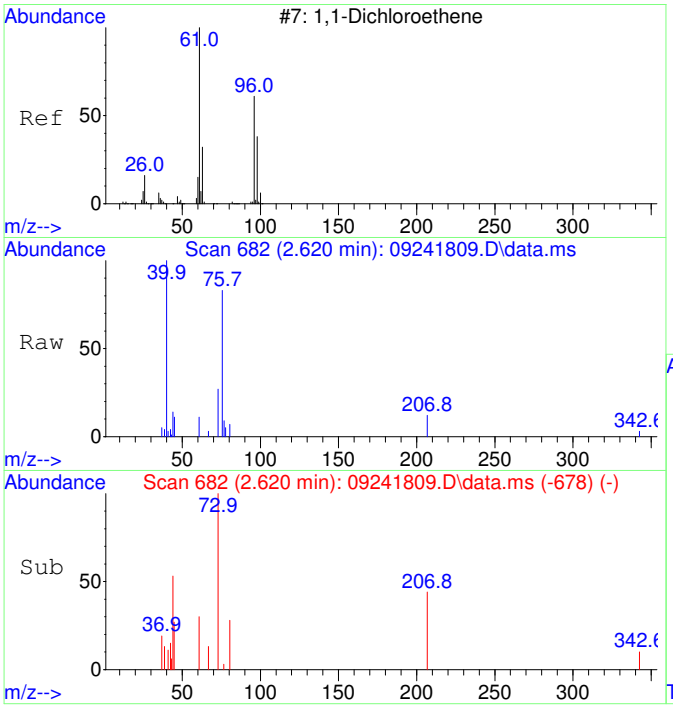


#25
2-Fluorotoluene SCAN
Concen: 5135.57 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:109 Resp: 60338

Ion	Ratio	Lower	Upper
109	100		
83	17.9	0.0	45.7

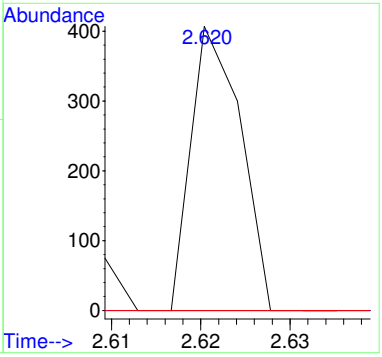


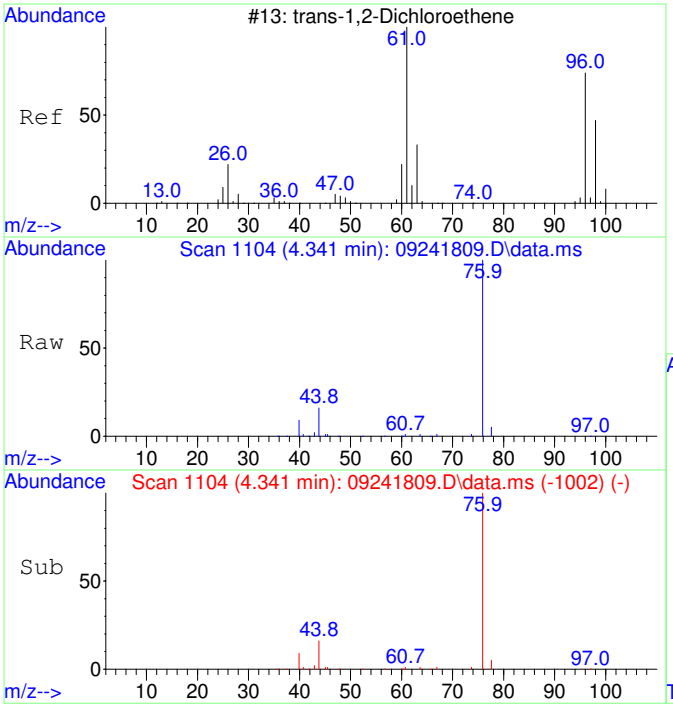


#26
1,1-Dichloroethene SCAN
Concen: 53.55 ug/L
RT: 2.620 min Scan# 682
Delta R.T. -0.486 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 157

Ion	Ratio	Lower	Upper
61	100		
96	0.0	23.8	83.8#
98	0.0	8.8	68.8#

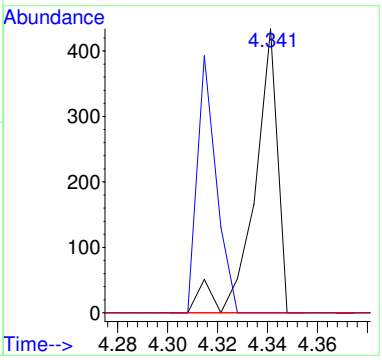


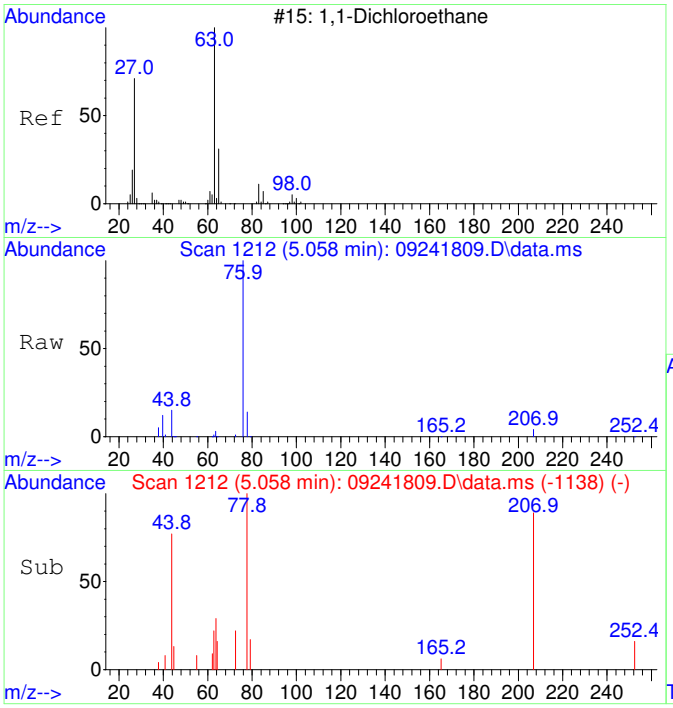


#27
trans-1,2-Dichloroethene SCAN
Concen: 82.04 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. 0.033 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 280

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	0.0	12.7	72.7#

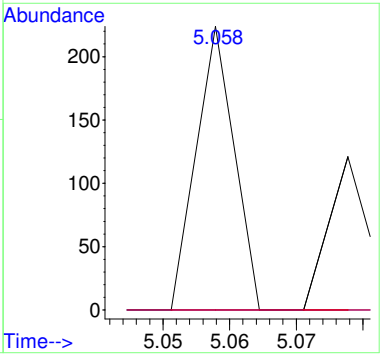


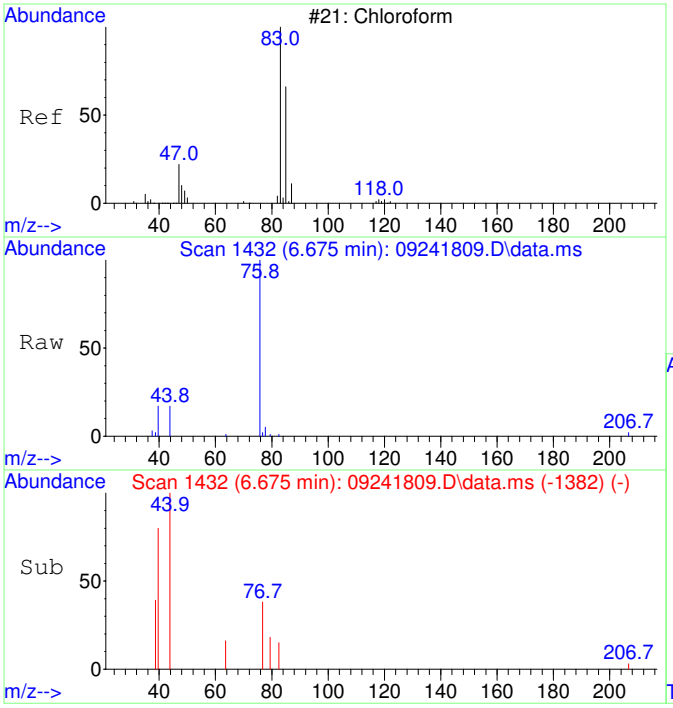


#28
1,1-Dichloroethane SCAN
Concen: 20.50 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 63 Resp: 89

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

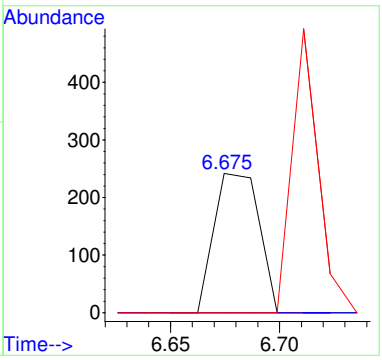


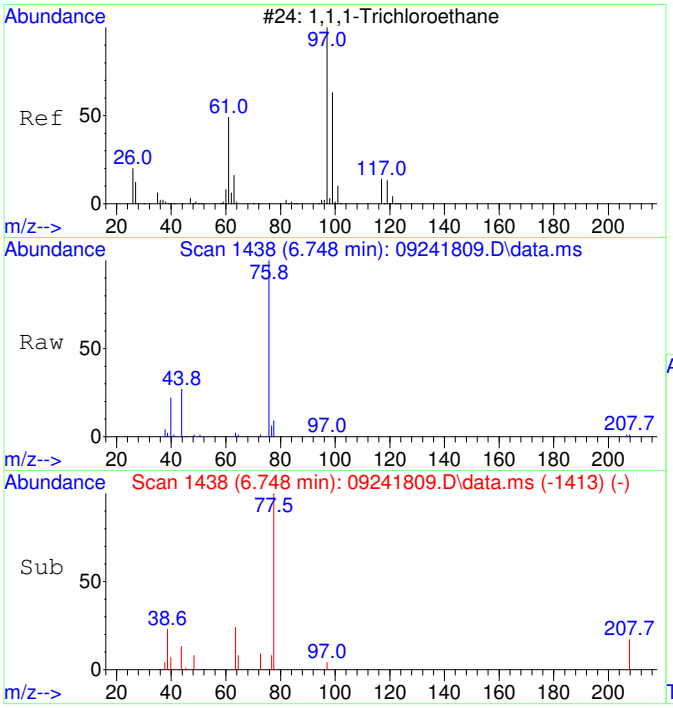


#30
Chloroform SCAN
Concen: 75.28 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 347

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

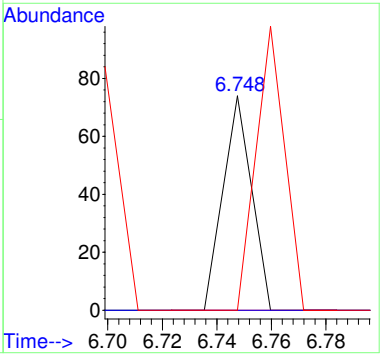


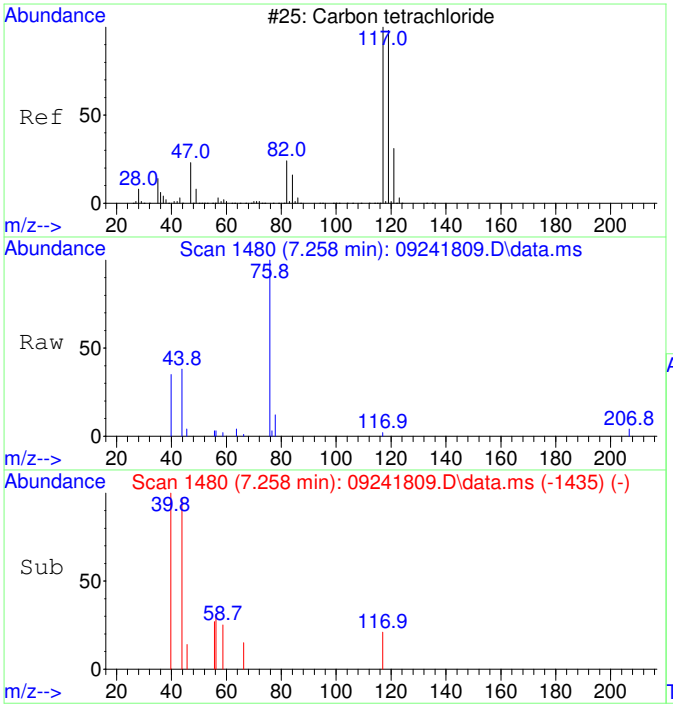


#31
1,1,1-Trichloroethane SCAN
Concen: 13.16 ug/L
RT: 6.748 min Scan# 1438
Delta R.T. -0.195 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 54

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	133.3	15.1	75.1#

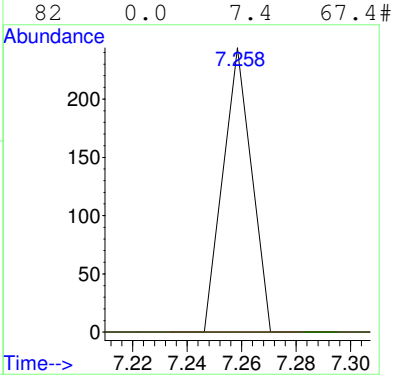


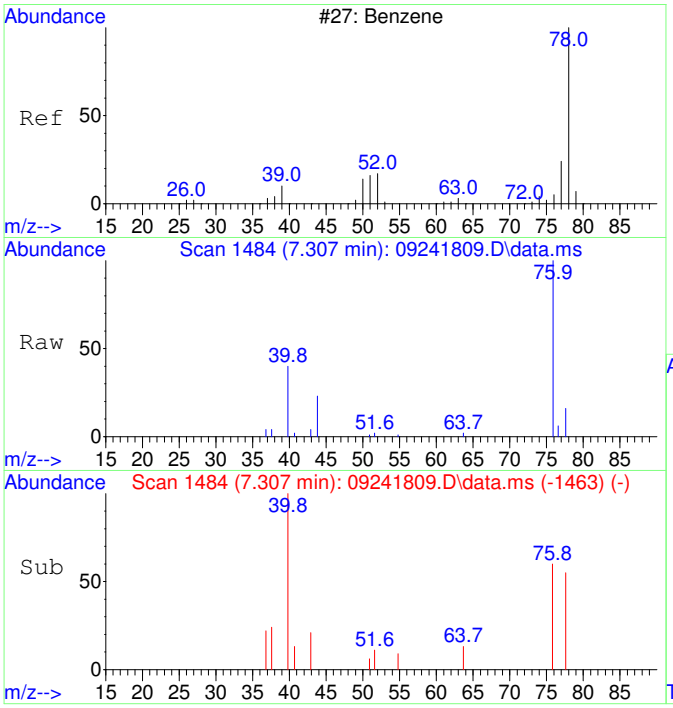


#32
Carbon tetrachloride SCAN
Concen: 44.03 ug/L
RT: 7.258 min Scan# 1480
Delta R.T. 0.049 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:117 Resp: 178

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

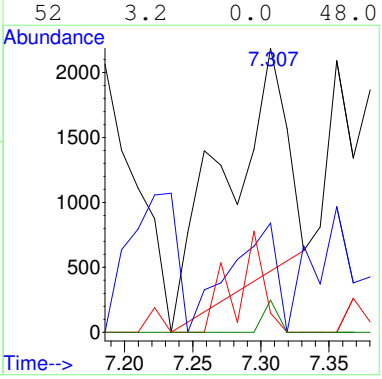


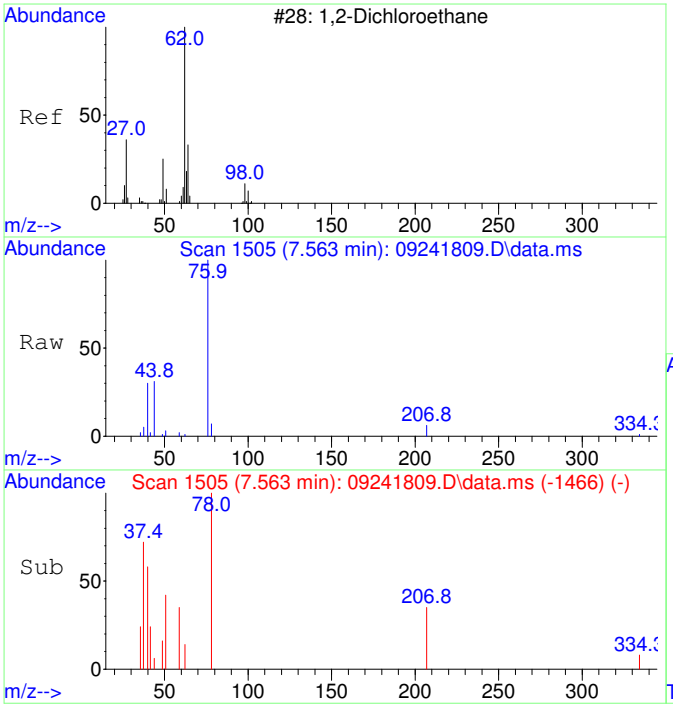


#33
Benzene SCAN
Concen: 460.12 ug/L
RT: 7.307 min Scan# 1484
Delta R.T. -0.243 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 78 Resp: 5630

Ion	Ratio	Lower	Upper
78	100		
77	21.1	3.0	63.0
51	19.9	0.0	56.4
52	3.2	0.0	48.0

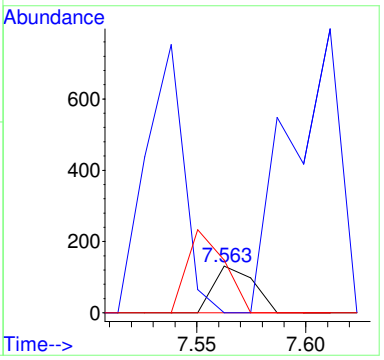


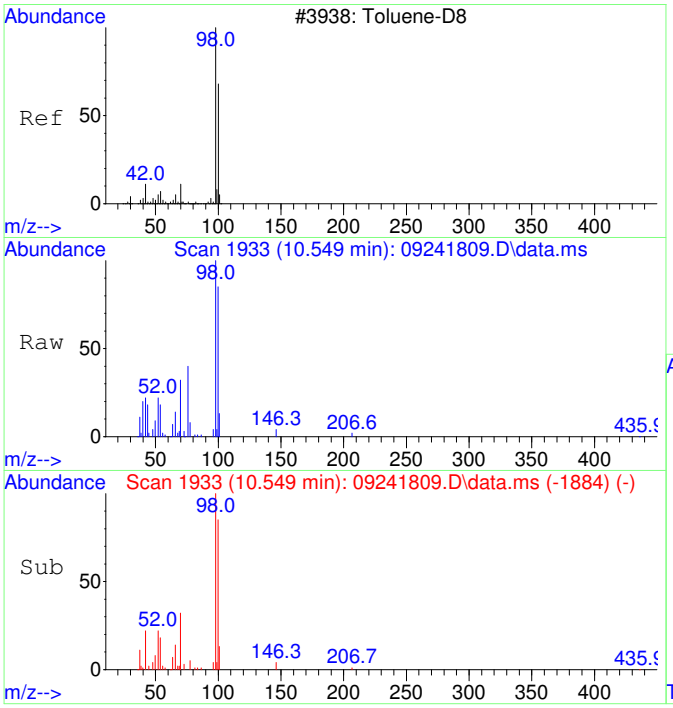


#34
1,2-Dichloroethane SCAN
Concen: 40.02 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. -0.024 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 62 Resp: 167

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	166.5	10.4	70.4#

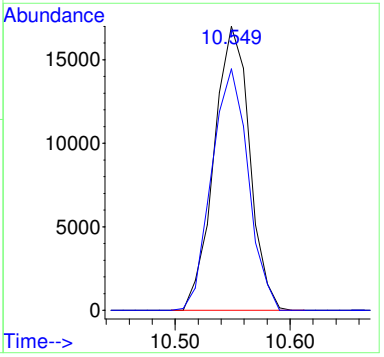


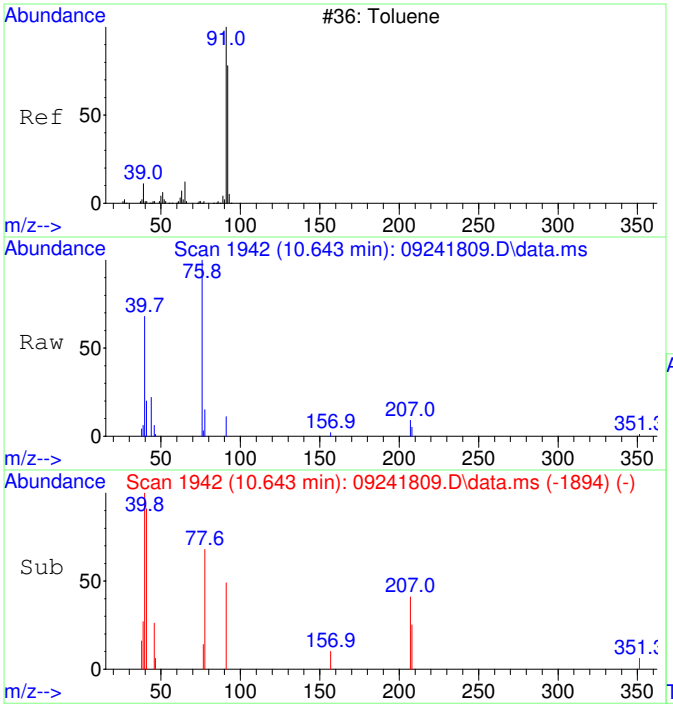


#36
Toluene-d8 SCAN
Concen: 3453.04 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 98 Resp: 36675

Ion	Ratio	Lower	Upper
98	100		
100	87.2	39.5	99.5

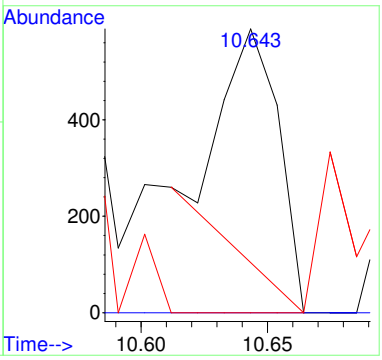


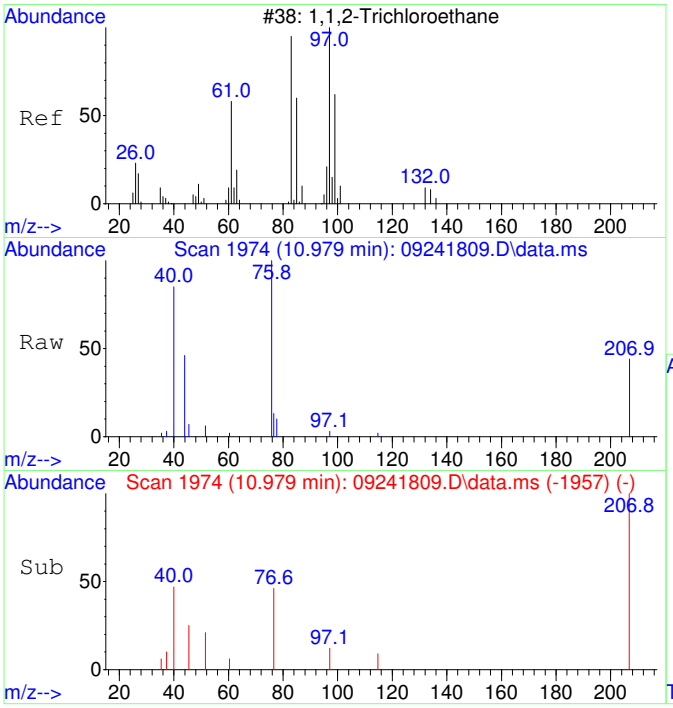


#37
Toluene SCAN
Concen: 48.28 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 655

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.6	86.6#
65	0.0	0.0	42.3

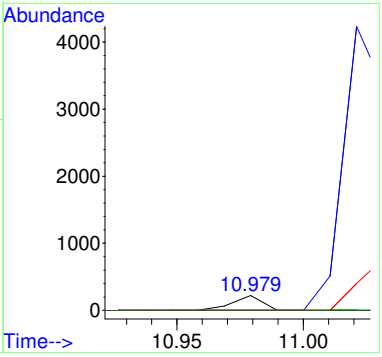


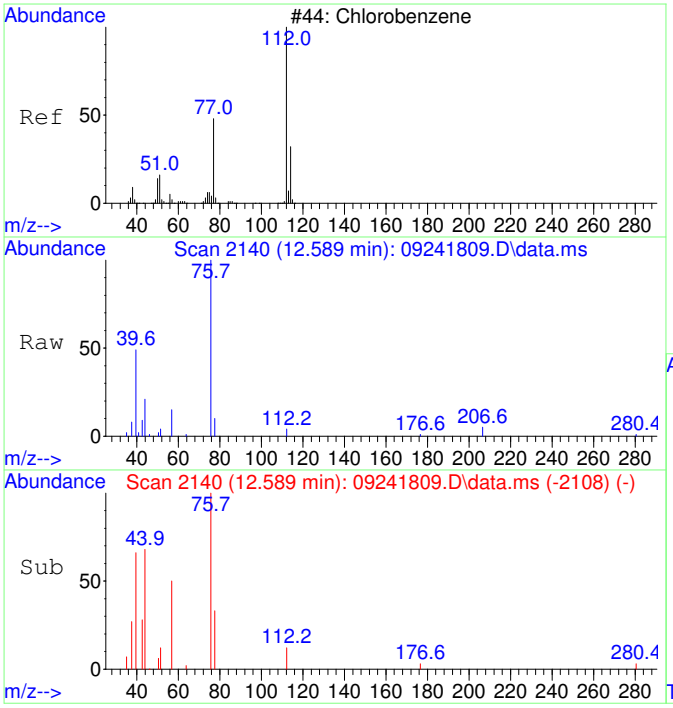


#38
1,1,2-Trichloroethane SCAN
Concen: 69.62 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. -0.325 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 181

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

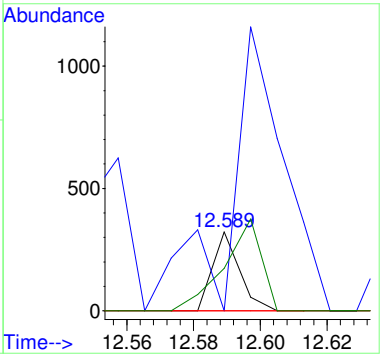


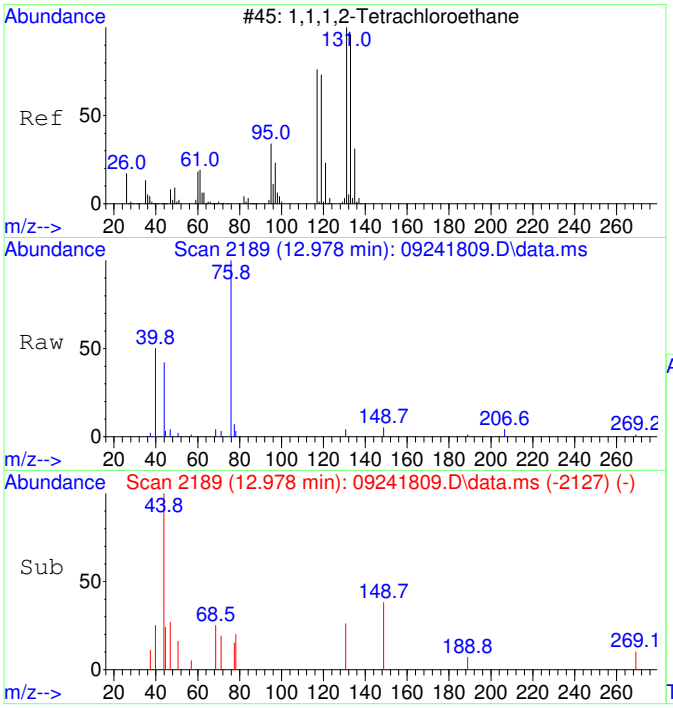


#40
Chlorobenzene SCAN
Concen: 21.99 ug/L
RT: 12.589 min Scan# 2140
Delta R.T. -0.246 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:112 Resp: 181

Ion	Ratio	Lower	Upper
112	100		
77	503.3	28.4	88.4#
114	0.0	0.0	59.5
51	162.4	0.0	53.7#

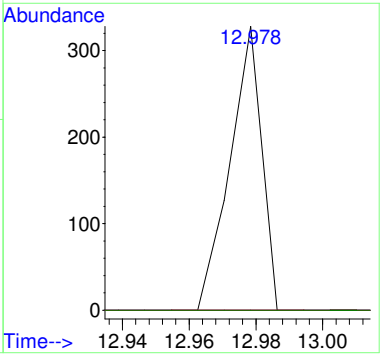


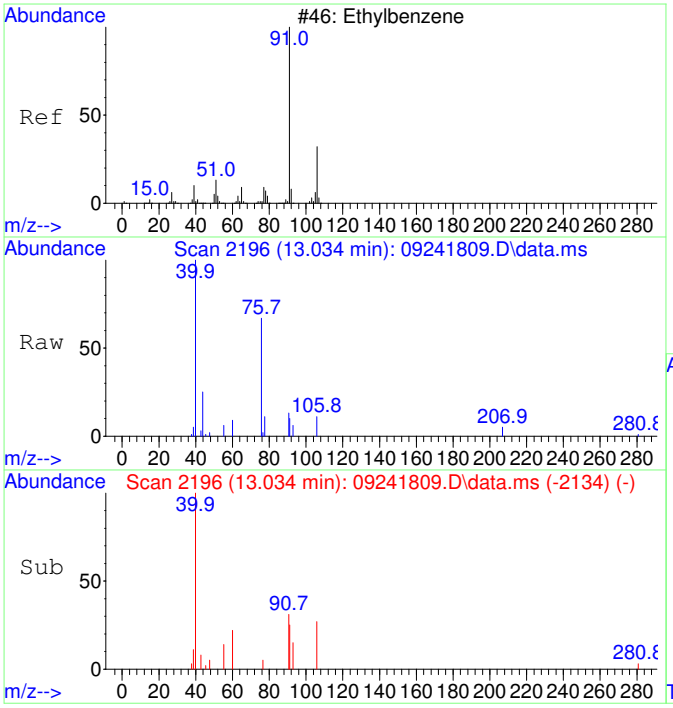


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 73.87 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:131 Resp: 217

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

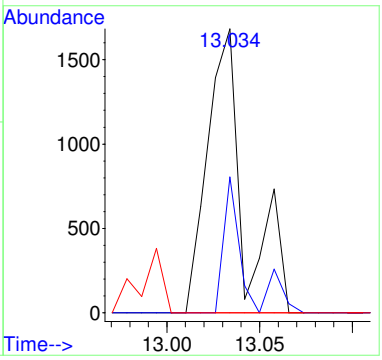


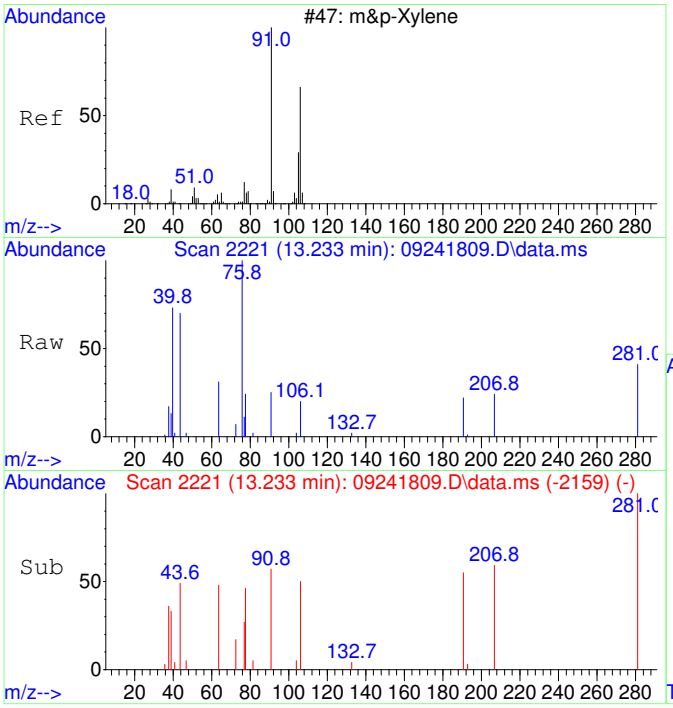


#42
Ethylbenzene SCAN
Concen: 146.35 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 2308

Ion	Ratio	Lower	Upper
91	100		
106	20.0	3.2	63.2
51	0.0	0.0	40.1

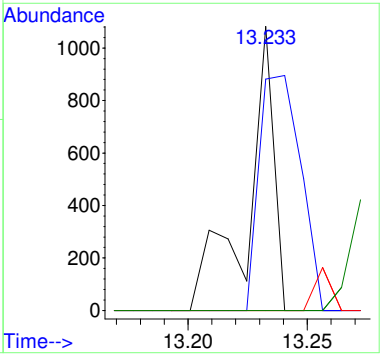


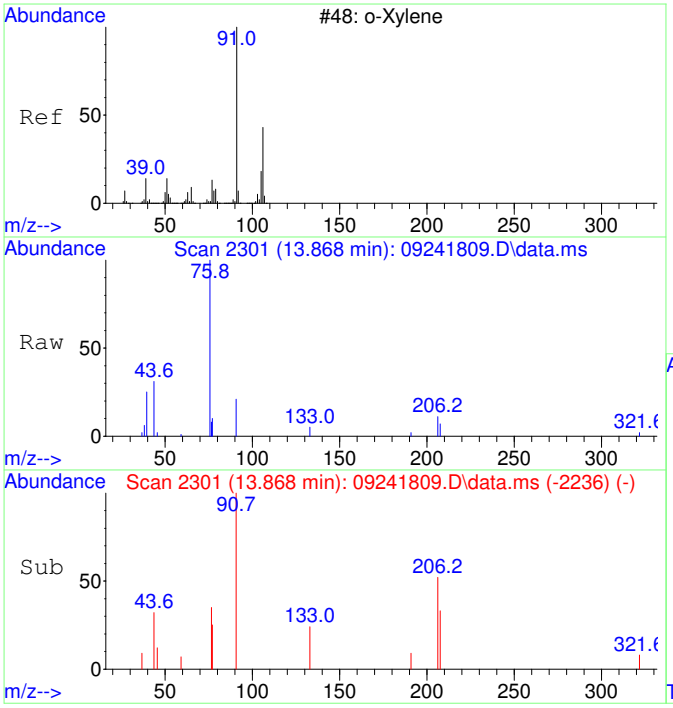


#43
m&p-Xylene SCAN
Concen: 38.60 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 845

Ion	Ratio	Lower	Upper
91	100		
106	128.5	20.1	80.1#
105	0.0	0.0	51.1
51	0.0	0.0	40.7

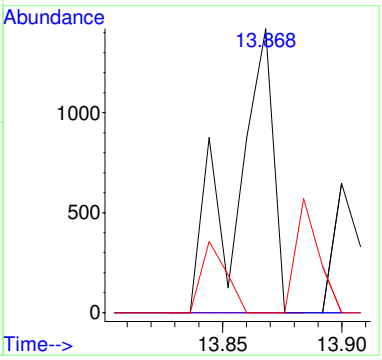


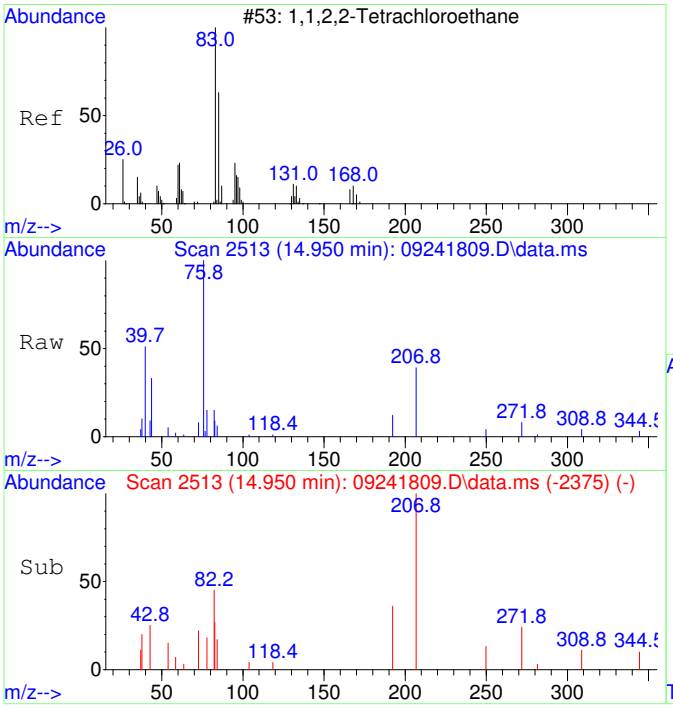


#44
o-Xylene SCAN
Concen: 126.01 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.016 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1570

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	24.3	0.0	55.2

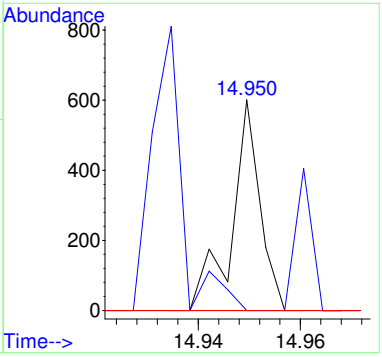


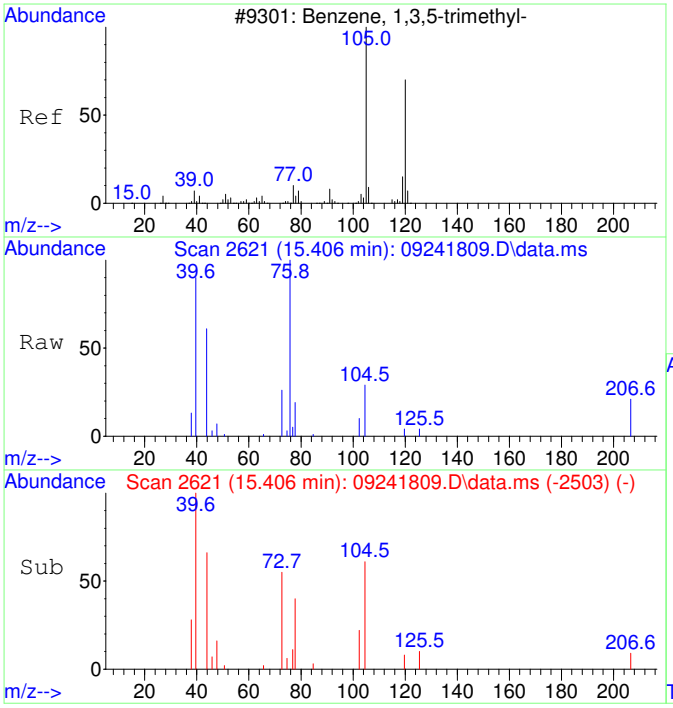


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 39.12 ug/L
RT: 14.950 min Scan# 2513
Delta R.T. 0.011 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 231

Ion	Ratio	Lower	Upper
83	100		
85	39.0	31.6	91.6
95	0.0	0.0	49.0

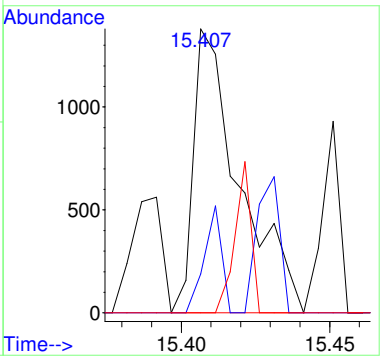


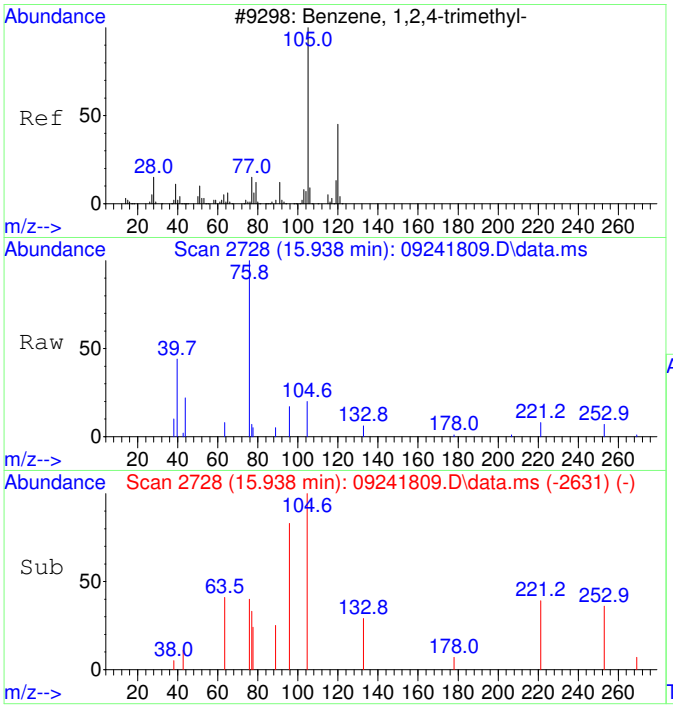


#46
1,3,5-Trimethylbenzene SCAN
Concen: 120.61 ug/L
RT: 15.406 min Scan# 2621
Delta R.T. -0.006 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1490

Ion	Ratio	Lower	Upper
105	100		
120	14.2	16.8	76.8#
119	0.0	0.0	41.5

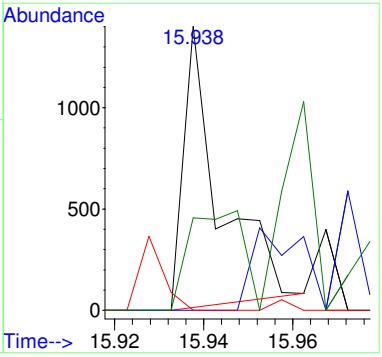


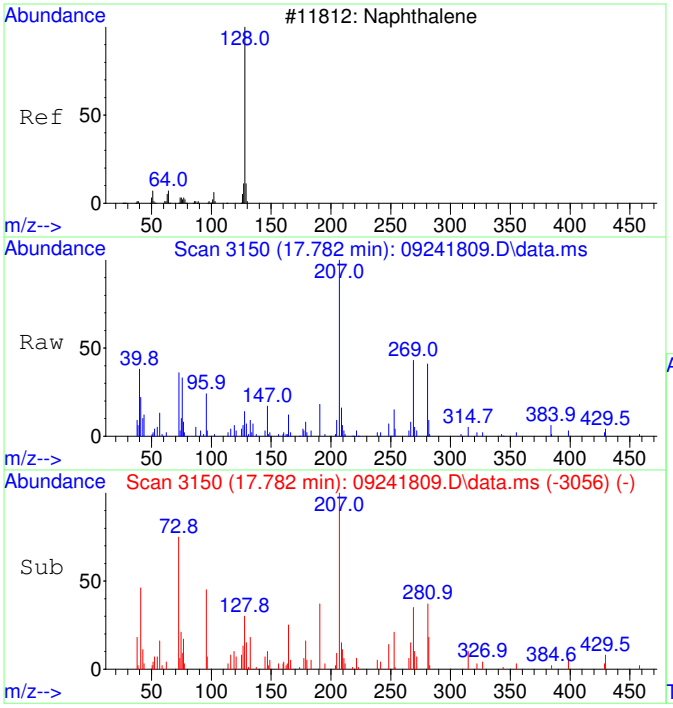


#47
1,2,4-Trimethylbenzene SCAN
Concen: 61.61 ug/L
RT: 15.938 min Scan# 2728
Delta R.T. -0.016 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 780

Ion	Ratio	Lower	Upper
105	100		
120	39.9	15.4	75.4
119	0.0	0.0	41.7
77	53.5	0.0	42.0#

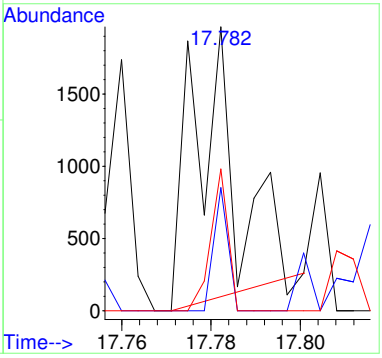




#48
Naphthalene SCAN
Concen: 70.69 ug/L
RT: 17.782 min Scan# 3150
Delta R.T. -0.152 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:128 Resp: 1277

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	43.9
129	20.8	0.0	40.5



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241809.D
Acq On : 24 Sep 2018 15:25
InstName : AG5975C
Operator : RH
Sample : B18I067-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

M.I. Performed By:
RH at 3:03 pm, Sep 26, 2018

M.I. Approved By:
Kathy O'Brien at 10:43 am, Se

Quant Time: Sep 24 16:31:54 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

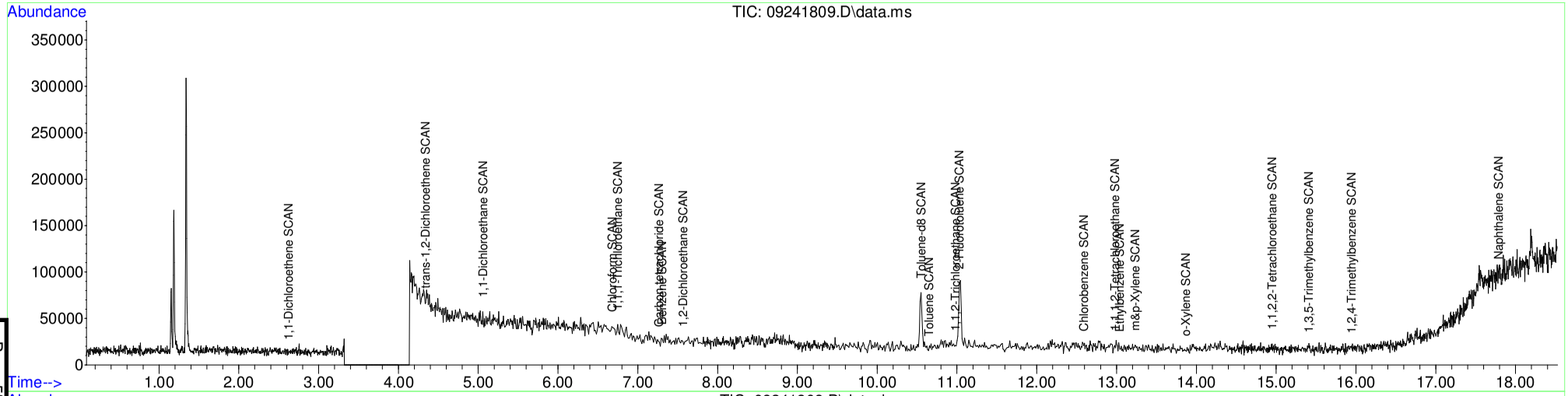
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	100827	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	81764	4992.50	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 99.85%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.104	61	228m	53.96	ug/L	
3] trans-1,2-Dichloroethene	4.303	61	253	56.12	ug/L	74
4] 1,1-Dichloroethane	5.066	63	351	62.55	ug/L	77
5] cis-1,2-Dichloroethene	6.101	61	338	61.06	ug/L	87
6] Chloroform	6.688	83	369	61.90	ug/L	95
7] 1,1,1-Trichloroethane	6.943	97	370	63.06	ug/L	91
8] Carbon tetrachloride	7.211	117	343	61.72	ug/L	80
9] Benzene	7.552	78	1181	72.95	ug/L	64
10] 1,2-Dichloroethane	7.588	62	341	65.36	ug/L #	1
11] Trichloroethene	8.624	130	278	62.48	ug/L	90
13] Toluene	10.645	91	1270	57.84	ug/L	87
14] 1,1,2-Trichloroethane	11.295	97	286	63.01	ug/L	86
15] Tetrachloroethene	11.495	166	398	64.33	ug/L	94
16] Chlorobenzene	12.837	112	886	56.53	ug/L	80
17] 1,1,1,2-Tetrachloroethane	12.988	131	365	68.63	ug/L	78
18] Ethylbenzene	13.035	91	1760	66.79	ug/L	93
19] m&p-Xylene	13.234	91	2605	128.08	ug/L	95
20] o-Xylene	13.846	91	1294	60.07	ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.947	83	505	54.44	ug/L	89
22] 1,3,5-Trimethylbenzene	15.413	105	1748	71.72	ug/L	91
23] 1,2,4-Trimethylbenzene	15.954	105	1600	65.63	ug/L	98
24] Naphthalene	17.936	128	631	15.77	ug/L #	1
25) 2-Fluorotoluene SCAN	11.032	109	60338	5135.57	ug/L	95
26) 1,1-Dichloroethene SCAN	2.620	61	157	53.55	ug/L #	30
27) trans-1,2-Dichloroethe...	4.341	61	280	82.04	ug/L #	23
28) 1,1-Dichloroethane SCAN	5.058	63	89	20.50	ug/L #	43
30) Chloroform SCAN	6.675	83	347	75.28	ug/L #	28
31) 1,1,1-Trichloroethane ...	6.748	97	54	13.16	ug/L #	1
32) Carbon tetrachloride SCAN	7.258	117	178	44.03	ug/L #	13
33) Benzene SCAN	7.307	78	5630	460.12	ug/L	79
34) 1,2-Dichloroethane SCAN	7.563	62	167	40.02	ug/L #	1
36) Toluene-d8 SCAN	10.549	98	36675	3453.04	ug/L	78
37) Toluene SCAN	10.643	91	655	48.28	ug/L #	31
38) 1,1,2-Trichloroethane ...	10.979	97	181	69.62	ug/L #	10
40) Chlorobenzene SCAN	12.589	112	181	21.99	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.978	131	217	73.87	ug/L #	13
42) Ethylbenzene SCAN	13.034	91	2308	146.35	ug/L #	76
43) m&p-Xylene SCAN	13.233	91	845	38.60	ug/L #	15
44) o-Xylene SCAN	13.868	91	1570	126.01	ug/L #	50
45) 1,1,2,2-Tetrachloroeth...	14.950	83	231	39.12	ug/L #	68
46) 1,3,5-Trimethylbenzene...	15.406	105	1490	120.61	ug/L #	55
47) 1,2,4-Trimethylbenzene...	15.938	105	780	61.61	ug/L #	71
48) Naphthalene SCAN	17.782	128	1277	70.69	ug/L	87

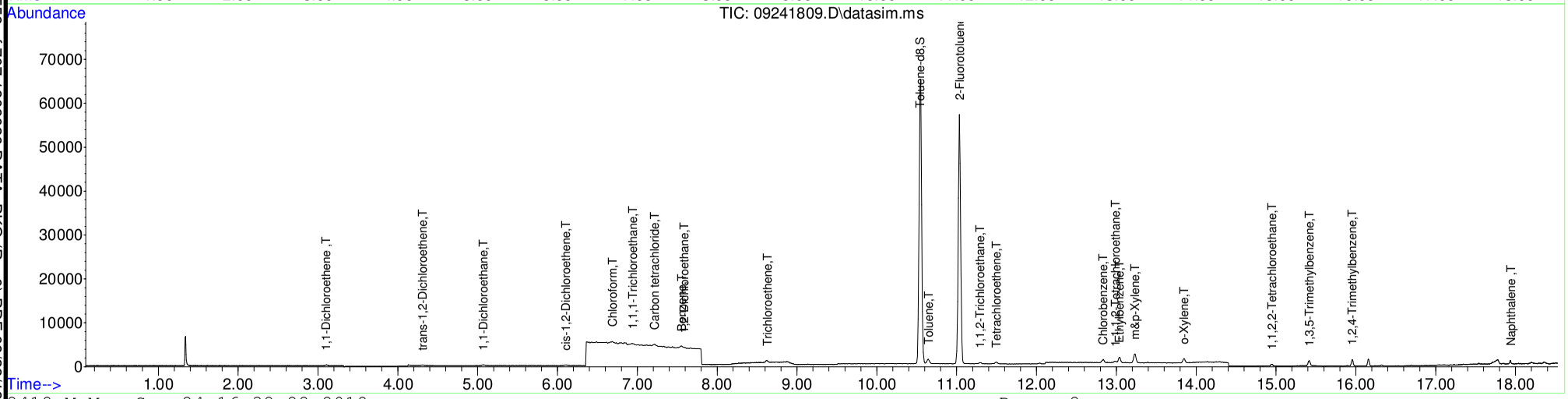
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241809.D
Acq On : 24 Sep 2018 15:25
InstName : AG5975C
Operator : RH
Sample : B18I067-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 16:31:54 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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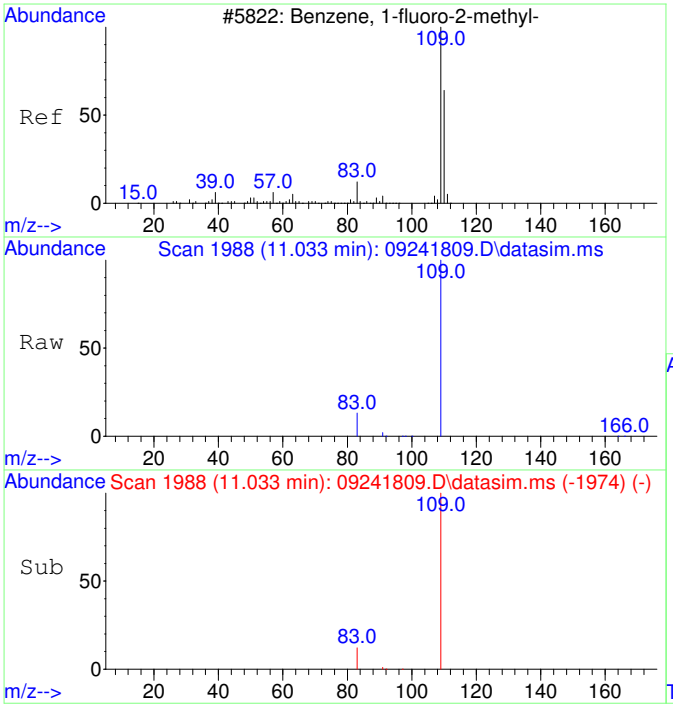
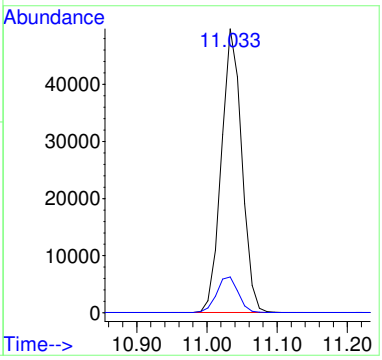
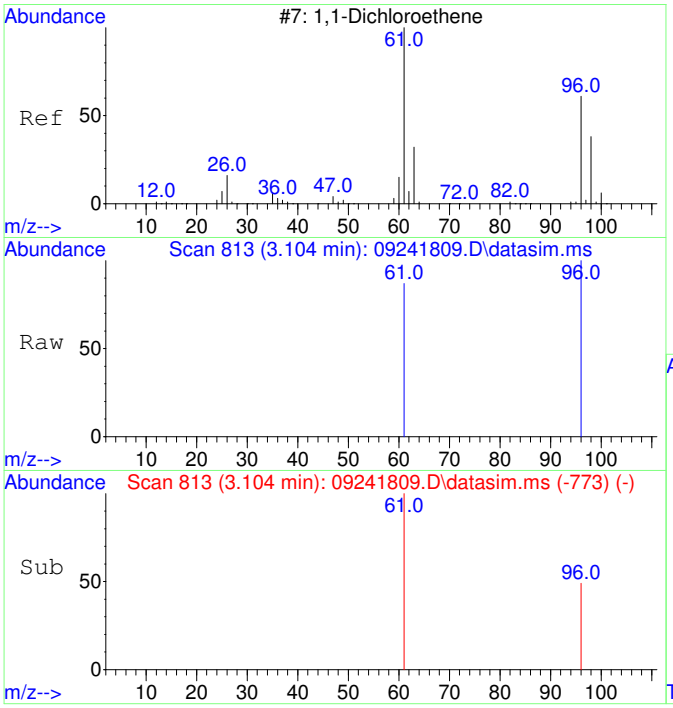


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:109 Resp: 100827

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

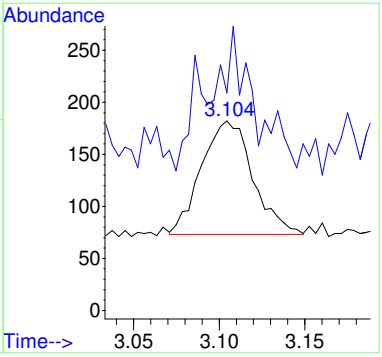


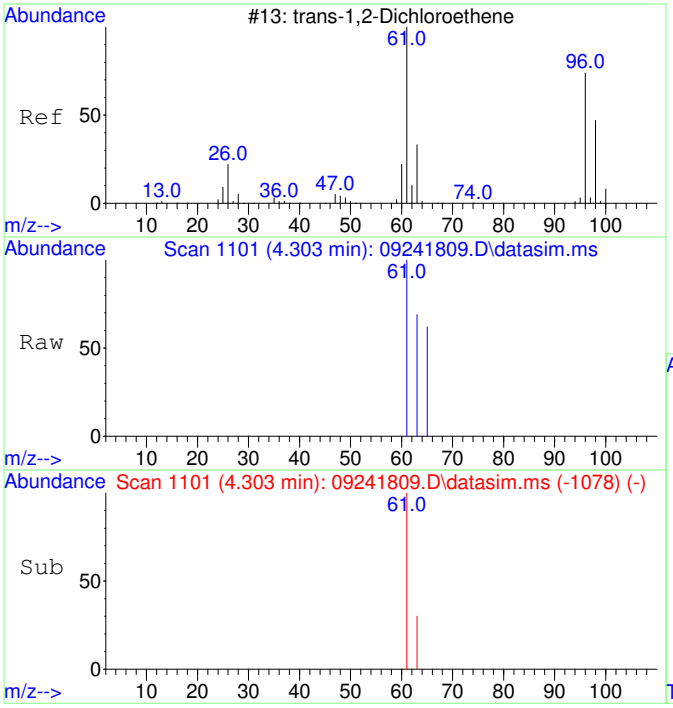


#2
1,1-Dichloroethene
Concen: 53.96 ug/L m
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 228

Ion	Ratio	Lower	Upper
61	100		
96	128.9	28.7	88.7#

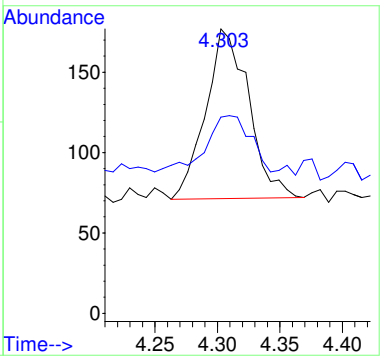


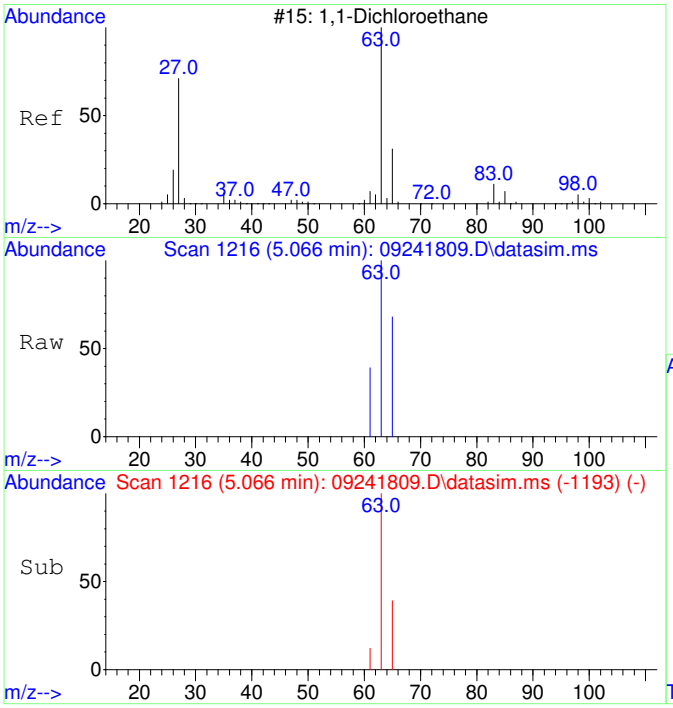


#3
trans-1,2-Dichloroethene
Concen: 56.12 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 253

Ion	Ratio	Lower	Upper
61	100		
63	46.6	2.0	62.0

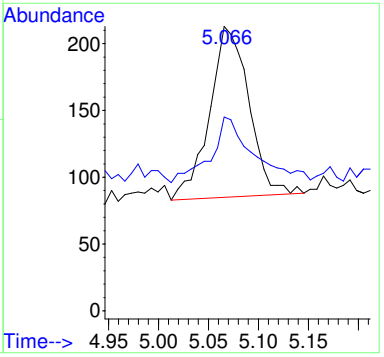


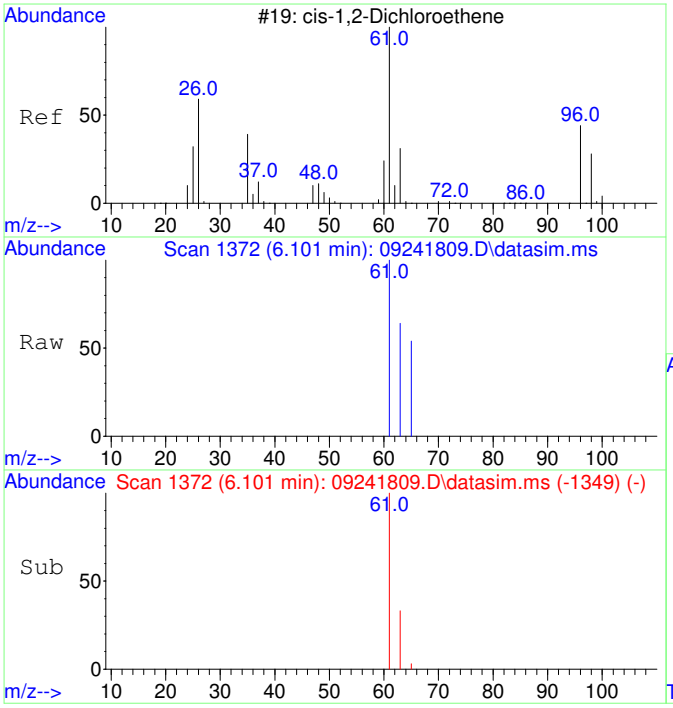


#4
1,1-Dichloroethane
Concen: 62.55 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 63 Resp: 351

Ion	Ratio	Lower	Upper
63	100		
65	44.4	1.5	61.5

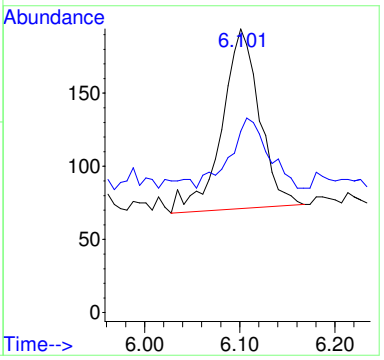


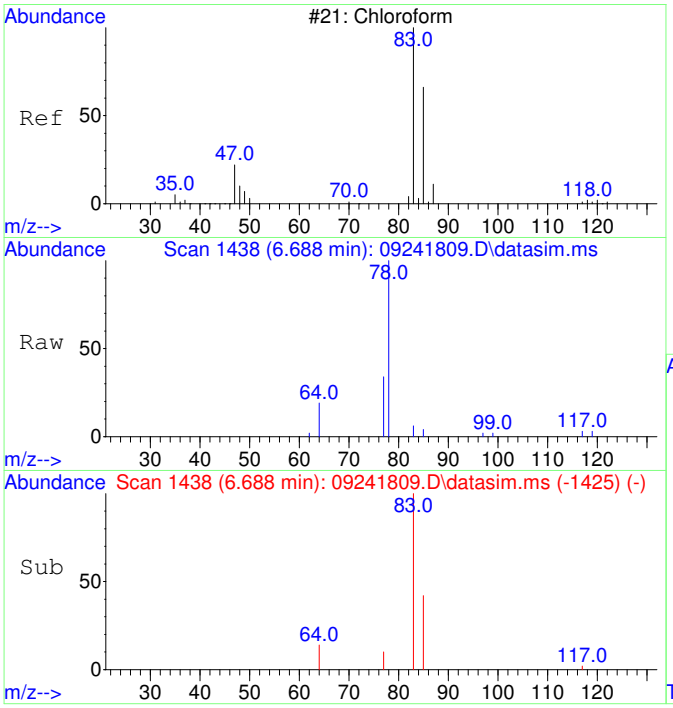


#5
cis-1,2-Dichloroethene
Concen: 61.06 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 338

Ion	Ratio	Lower	Upper
61	100		
63	39.3	2.2	62.2

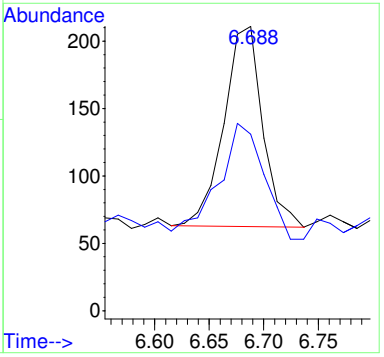


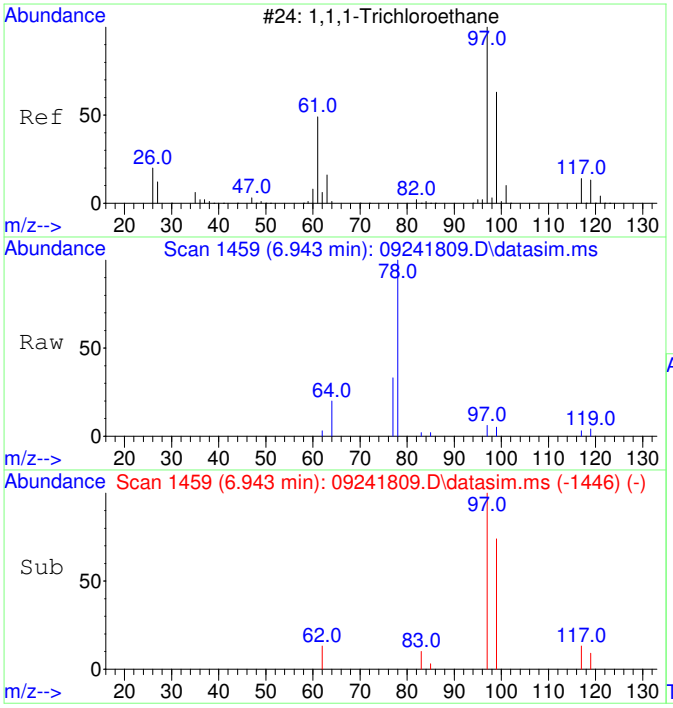


#6
Chloroform
Concen: 61.90 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 369

Ion	Ratio	Lower	Upper
83	100		
85	68.6	34.8	94.8

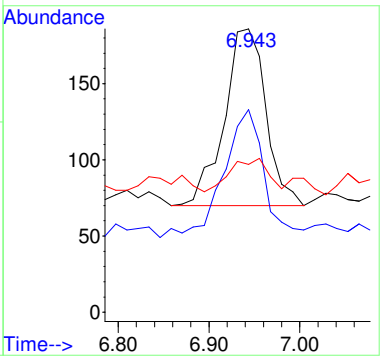


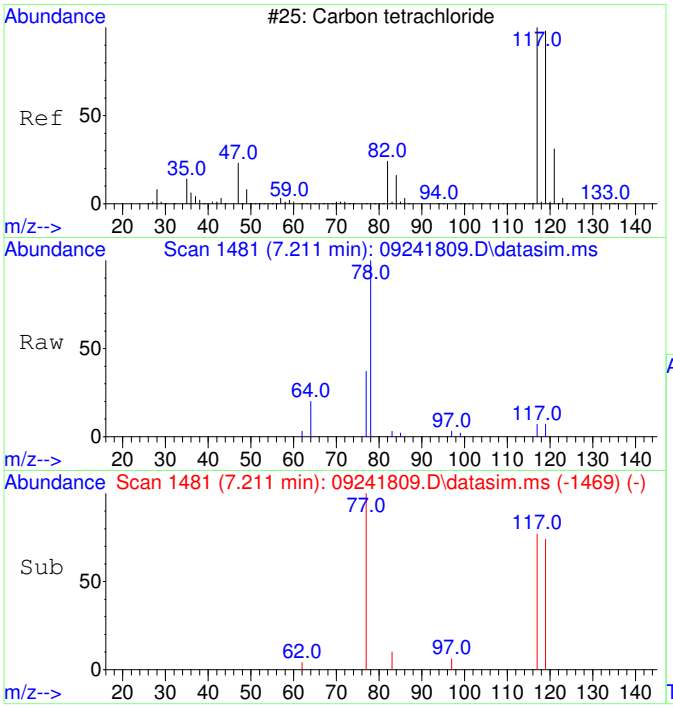


#7
1,1,1-Trichloroethane
Concen: 63.06 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 370

Ion	Ratio	Lower	Upper
97	100		
99	70.5	34.6	94.6
117	18.9	0.0	42.9

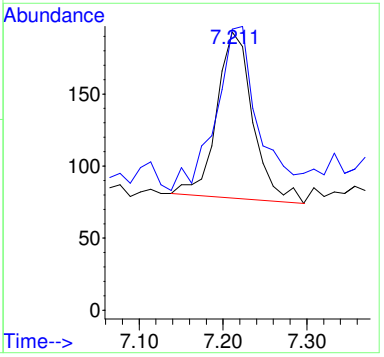


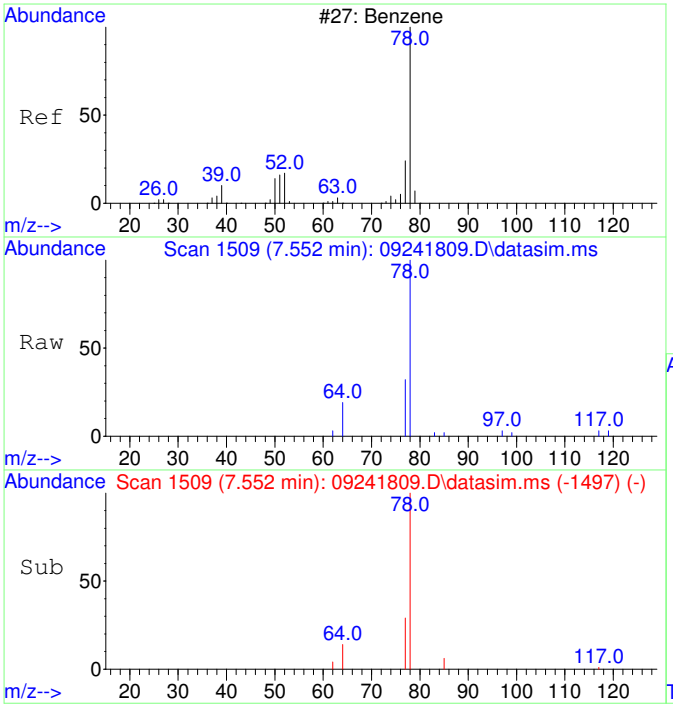


#8
Carbon tetrachloride
Concen: 61.72 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:117 Resp: 343

Ion	Ratio	Lower	Upper
117	100		
119	115.5	65.9	125.9

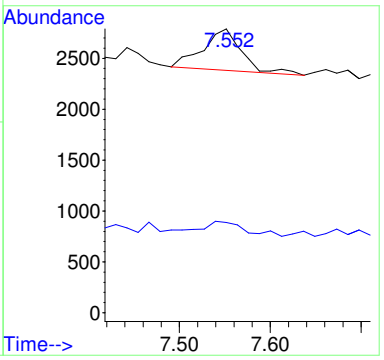


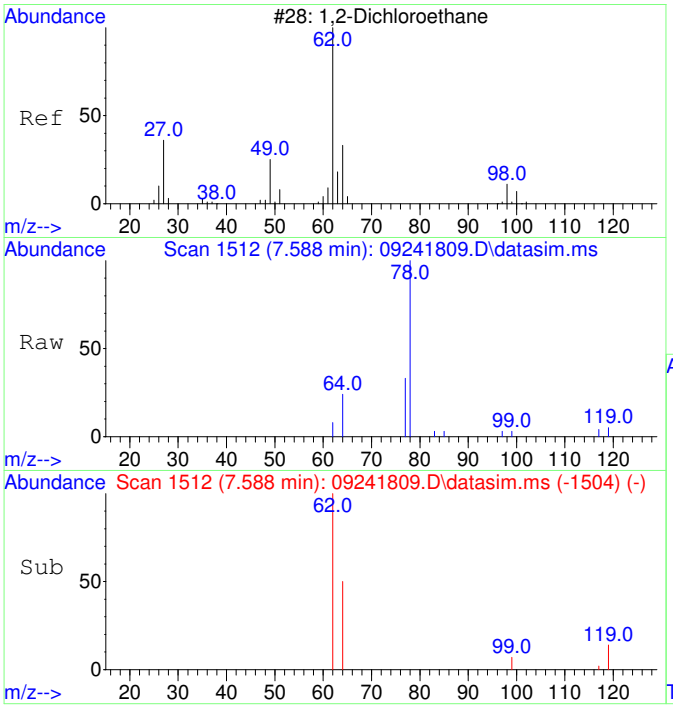


#9
Benzene
Concen: 72.95 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 78 Resp: 1181

Ion	Ratio	Lower	Upper
78	100		
77	40.4	0.0	53.0

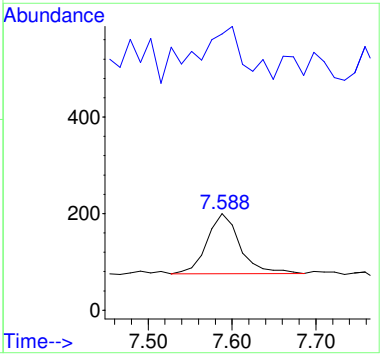


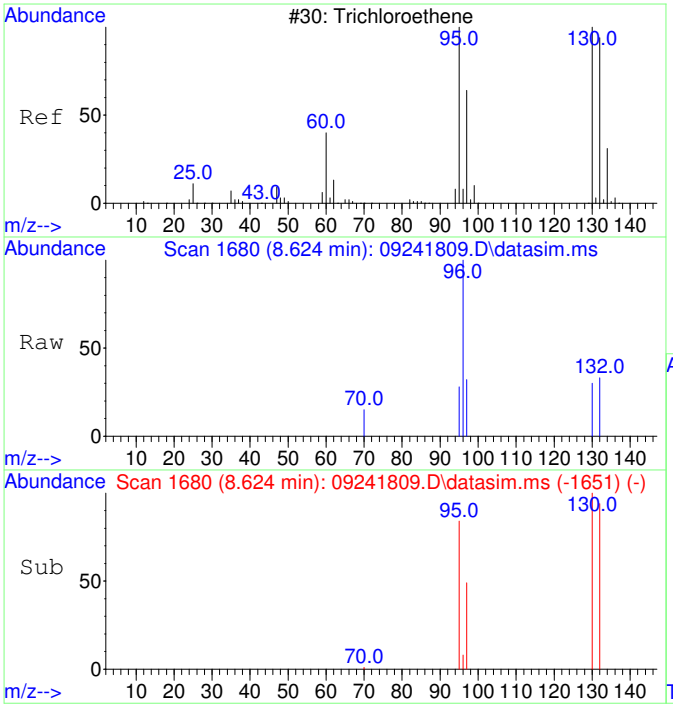


#10
1,2-Dichloroethane
Concen: 65.36 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 62 Resp: 341

Ion	Ratio	Lower	Upper
62	100		
64	129.0	2.3	62.3#

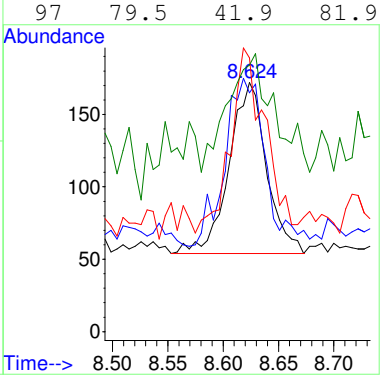


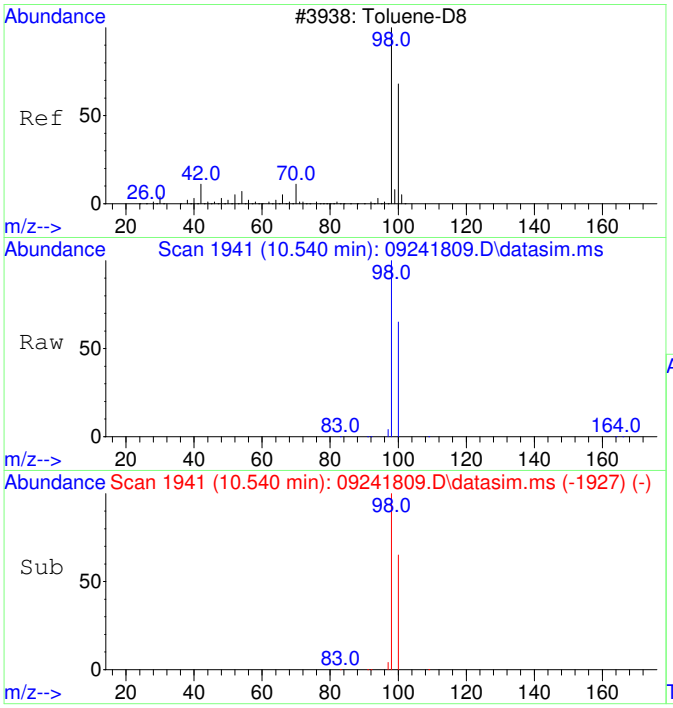


#11
Trichloroethene
Concen: 62.48 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:130 Resp: 278

Ion	Ratio	Lower	Upper
130	100		
95	106.5	66.0	126.0
132	100.0	78.8	118.8
97	79.5	41.9	81.9

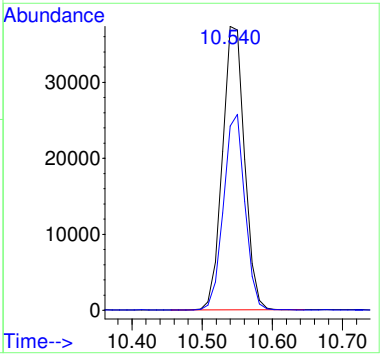


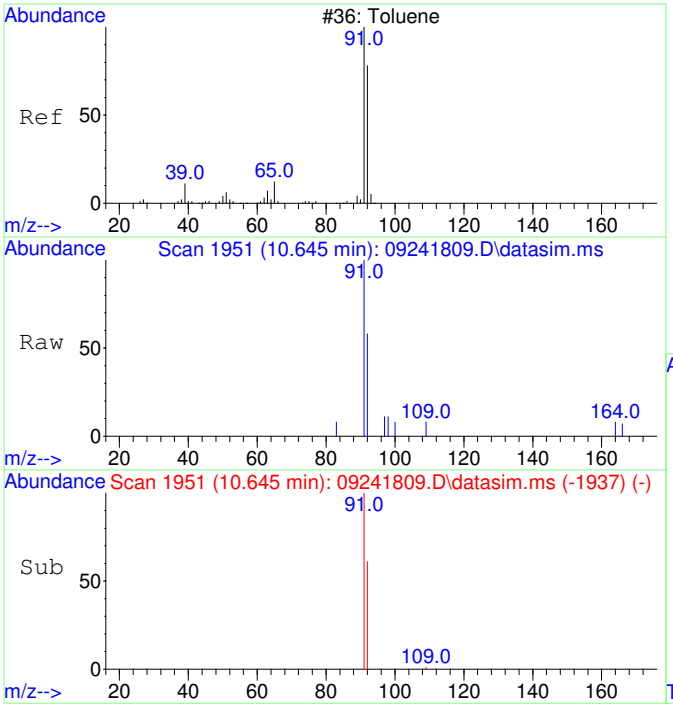


#12
Toluene-d8
Concen: 4992.50 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 98 Resp: 81764

Ion	Ratio	Lower	Upper
98	100		
100	66.8	38.7	98.7

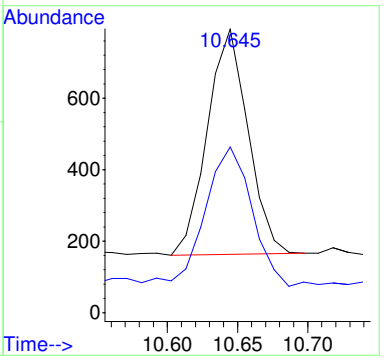


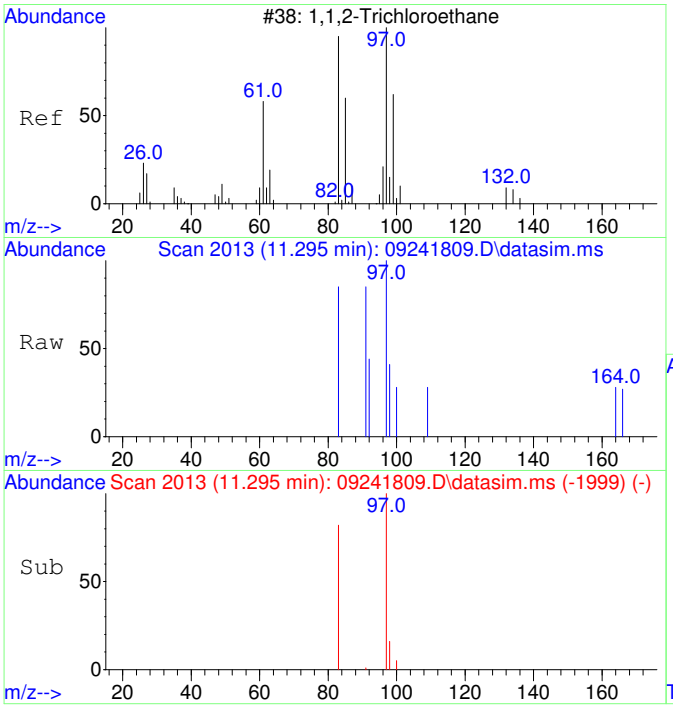


#13
Toluene
Concen: 57.84 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1270

Ion	Ratio	Lower	Upper
91	100		
92	69.5	30.0	90.0

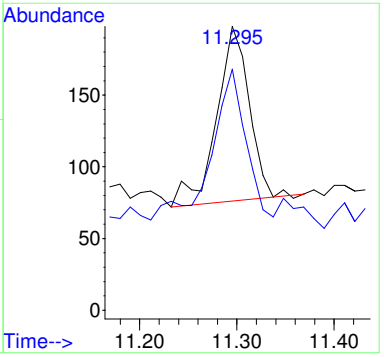


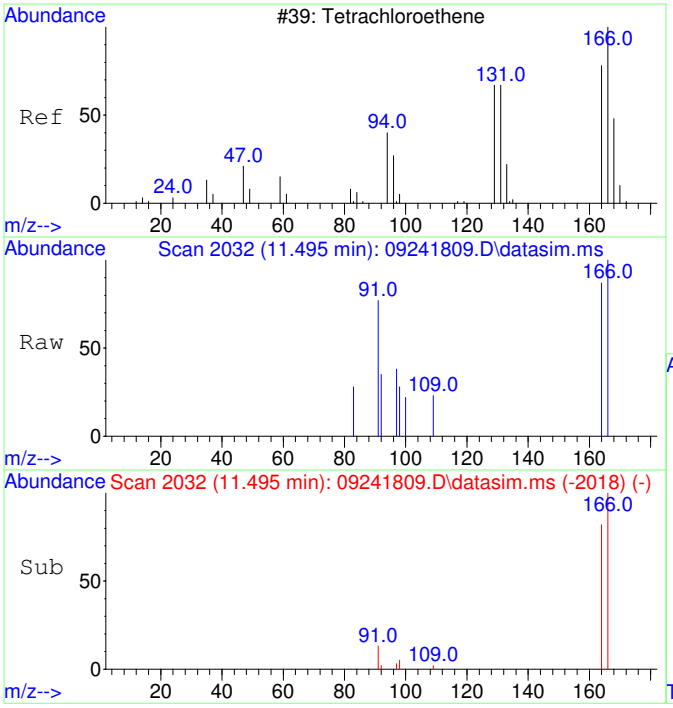


#14
1,1,2-Trichloroethane
Concen: 63.01 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 286

Ion	Ratio	Lower	Upper
97	100		
83	95.8	53.4	113.4

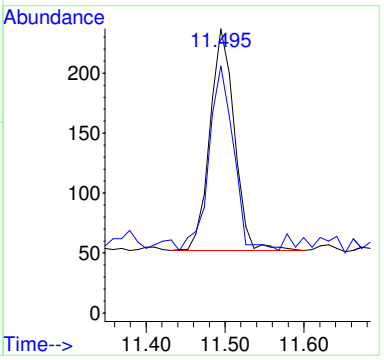


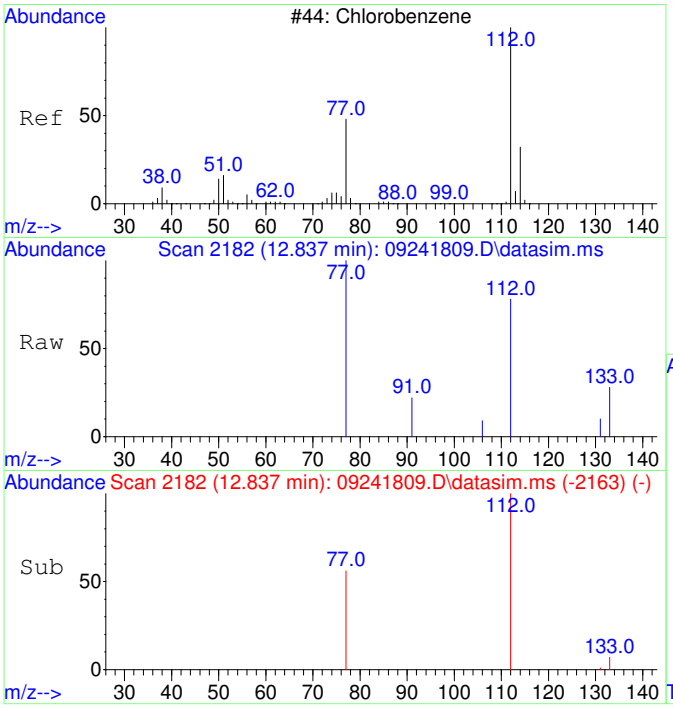


#15
Tetrachloroethene
Concen: 64.33 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:166 Resp: 398

Ion	Ratio	Lower	Upper
166	100		
164	83.4	47.8	107.8

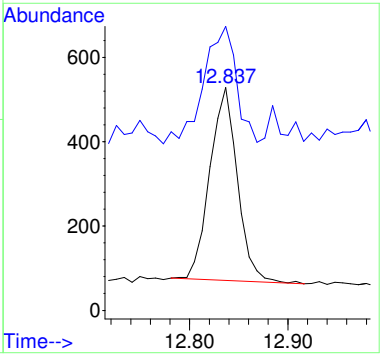


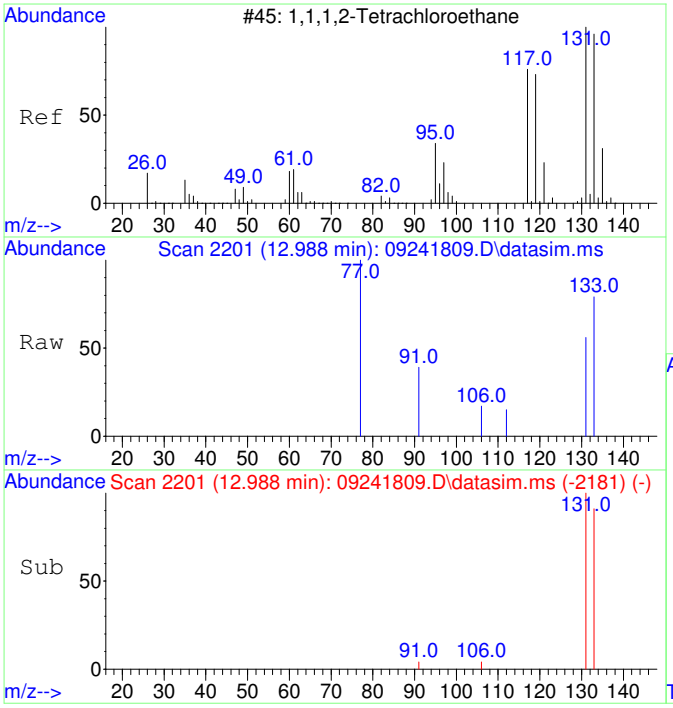


#16
Chlorobenzene
Concen: 56.53 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:112 Resp: 886

Ion	Ratio	Lower	Upper
112	100		
77	72.8	28.1	88.1

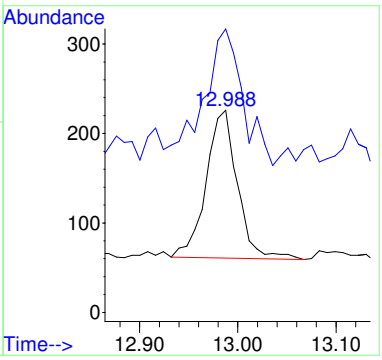


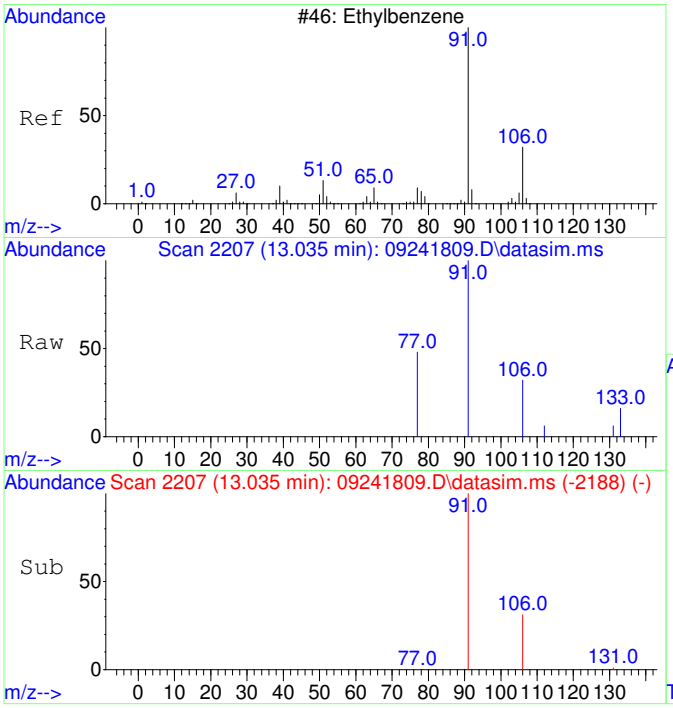


#17
1,1,1,2-Tetrachloroethane
Concen: 68.63 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:131 Resp: 365

Ion	Ratio	Lower	Upper
131	100		
133	118.1	66.2	126.2

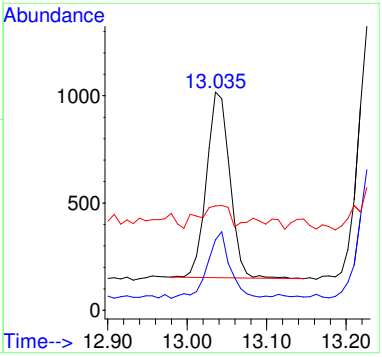


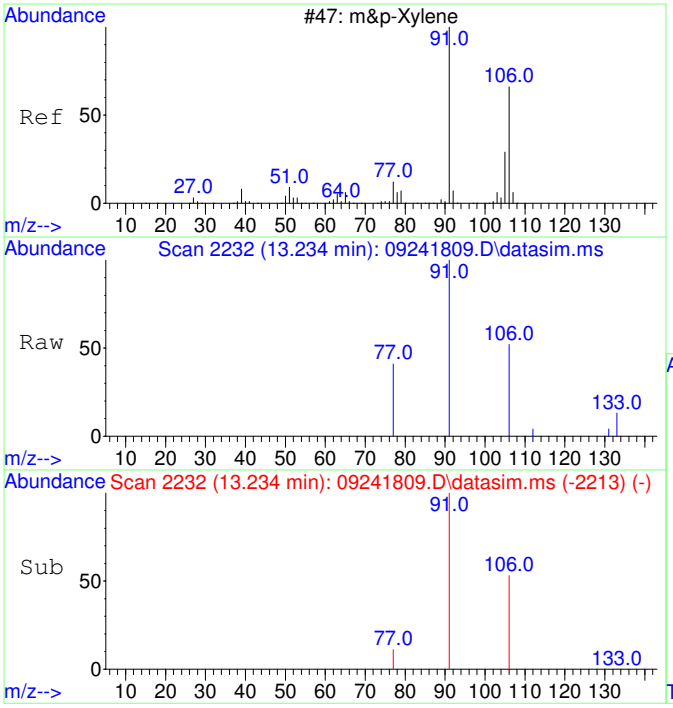


#18
Ethylbenzene
Concen: 66.79 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1760

Ion	Ratio	Lower	Upper
91	100		
106	34.7	2.8	62.8
77	16.6	0.0	38.6

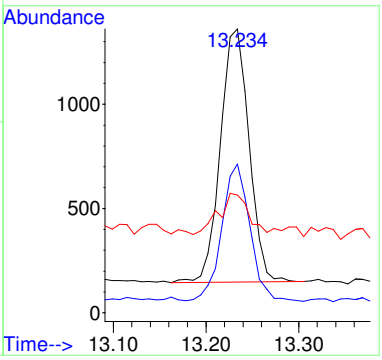


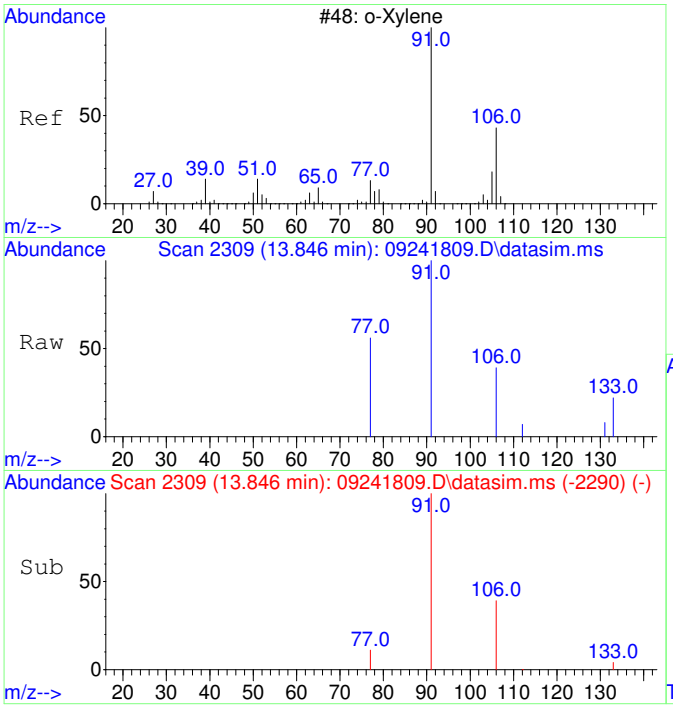


#19
m&p-Xylene
Concen: 128.08 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 2605

Ion	Ratio	Lower	Upper
91	100		
106	53.0	21.2	81.2
77	18.7	0.0	42.9

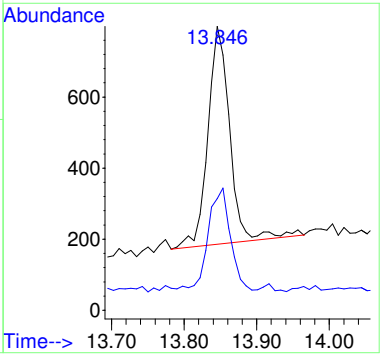


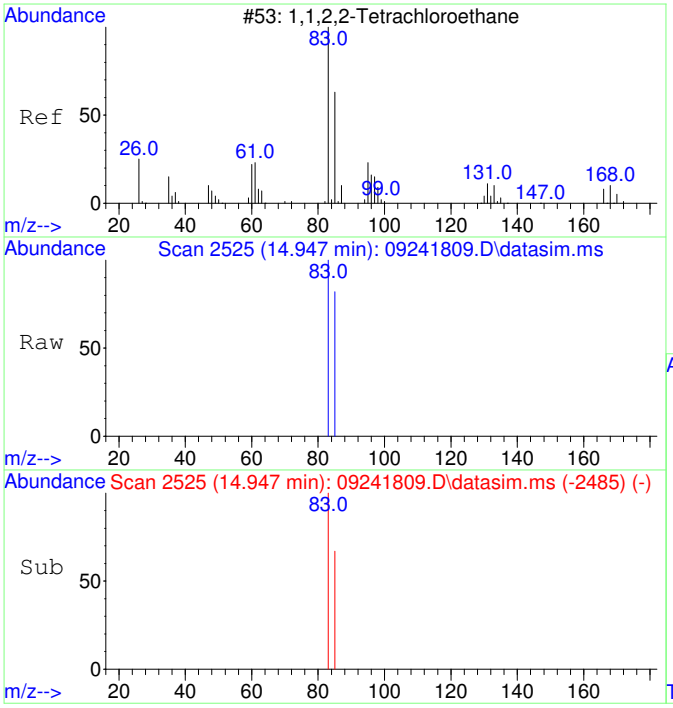


#20
o-Xylene
Concen: 60.07 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1294

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.3	78.3

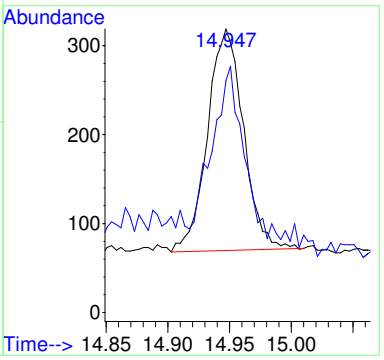


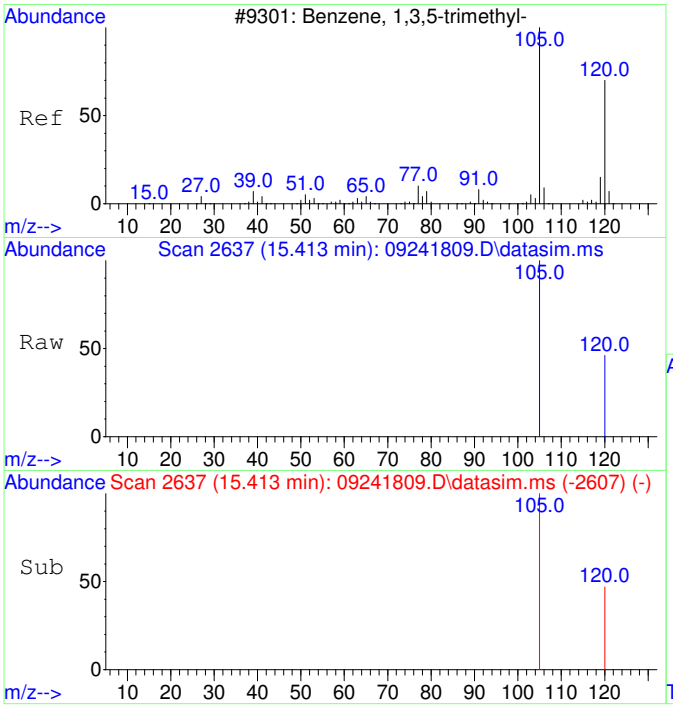


#21
1,1,2,2-Tetrachloroethane
Concen: 54.44 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 505

Ion	Ratio	Lower	Upper
83	100		
85	72.7	34.4	94.4

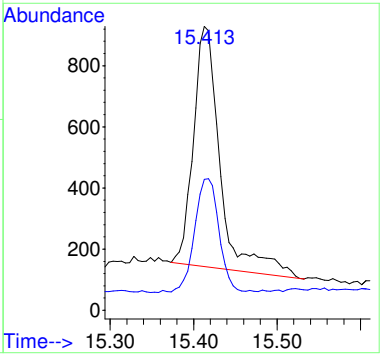


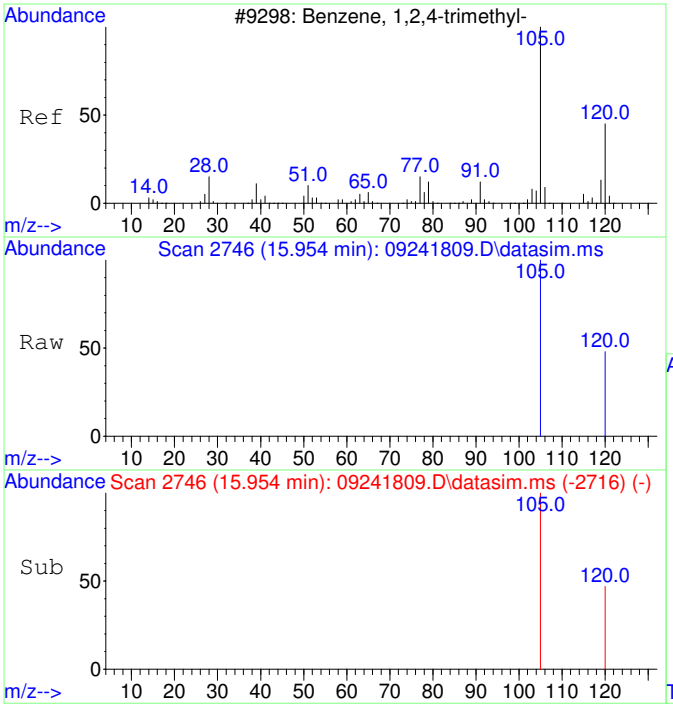


#22
1,3,5-Trimethylbenzene
Concen: 71.72 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.001 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1748

Ion	Ratio	Lower	Upper
105	100		
120	43.0	19.1	79.1

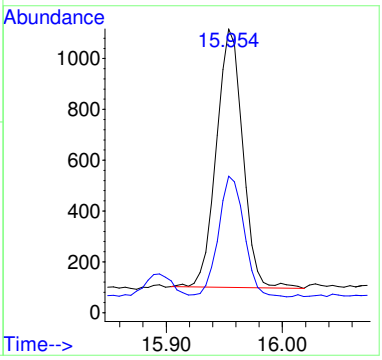


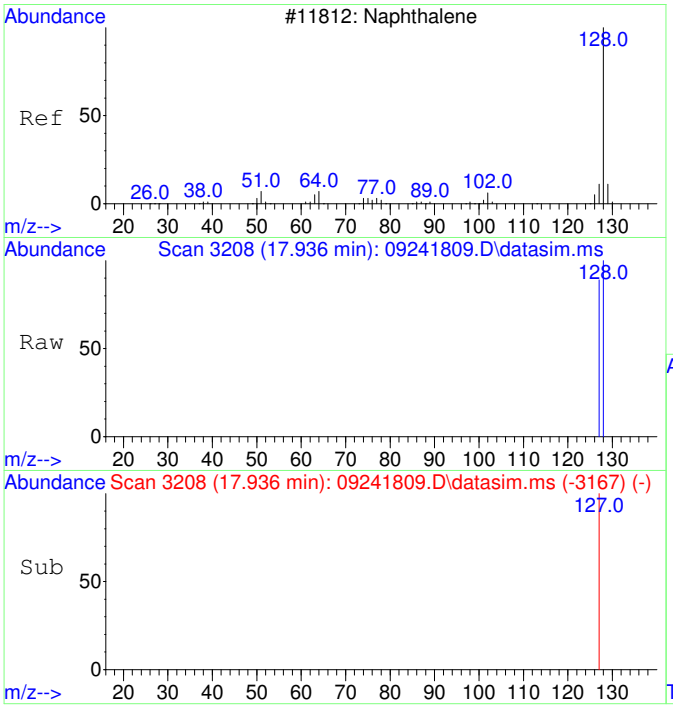


#23
1,2,4-Trimethylbenzene
Concen: 65.63 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1600

Ion	Ratio	Lower	Upper
105	100		
120	44.5	15.5	75.5

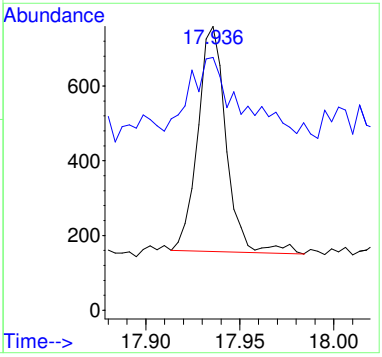


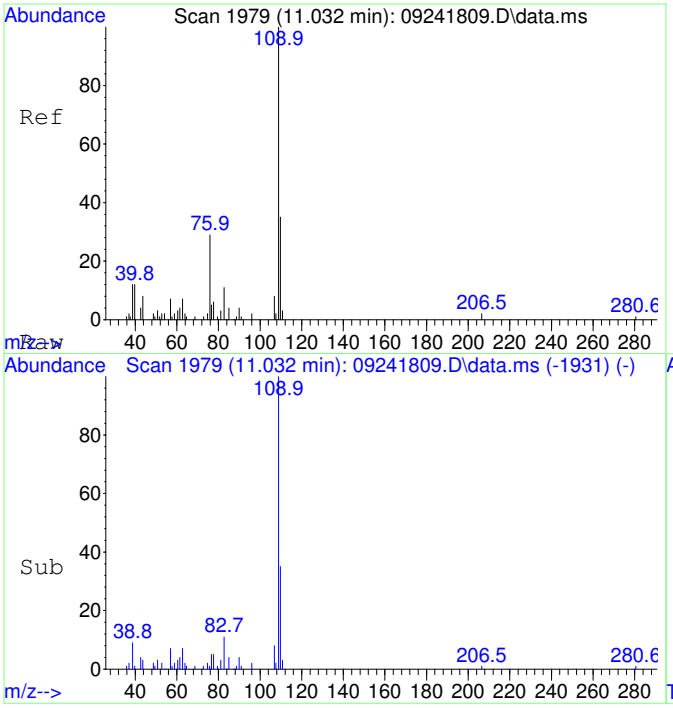


#24
Naphthalene
Concen: 15.77 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:128 Resp: 631

Ion	Ratio	Lower	Upper
128	100		
127	58.8	0.0	42.5#

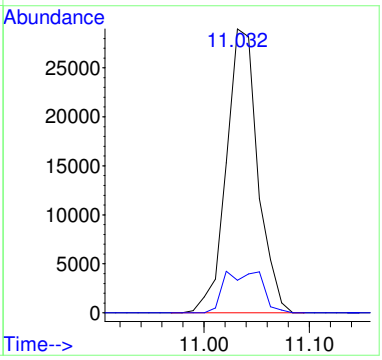


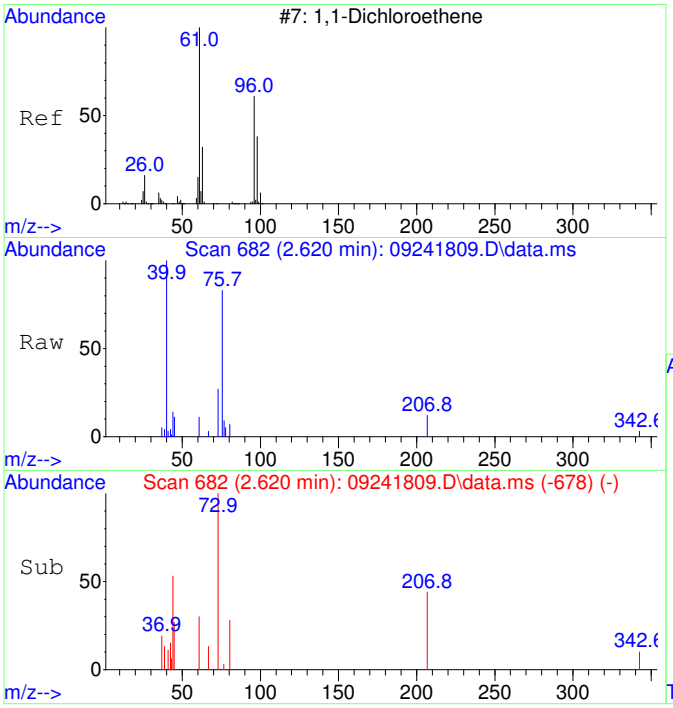


#25
2-Fluorotoluene SCAN
Concen: 5135.57 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:109 Resp: 60338

Ion	Ratio	Lower	Upper
109	100		
83	17.9	0.0	45.7

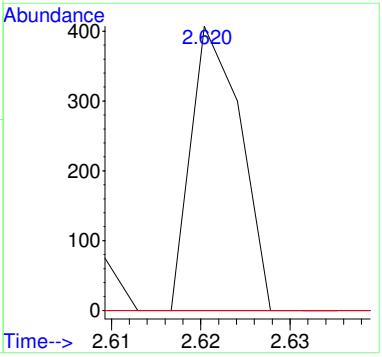


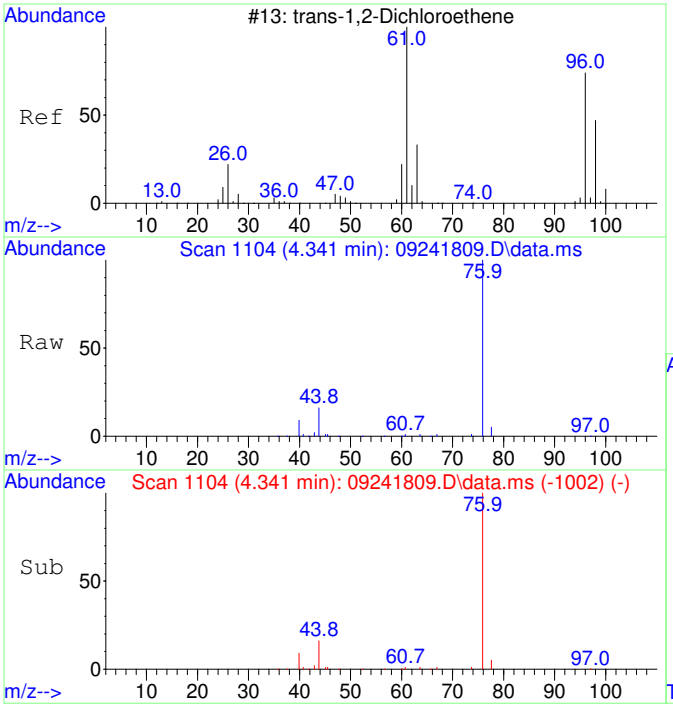


#26
1,1-Dichloroethene SCAN
Concen: 53.55 ug/L
RT: 2.620 min Scan# 682
Delta R.T. -0.486 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 157

Ion	Ratio	Lower	Upper
61	100		
96	0.0	23.8	83.8#
98	0.0	8.8	68.8#

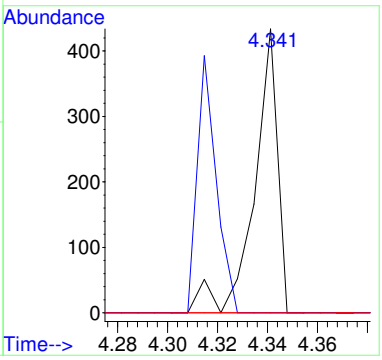


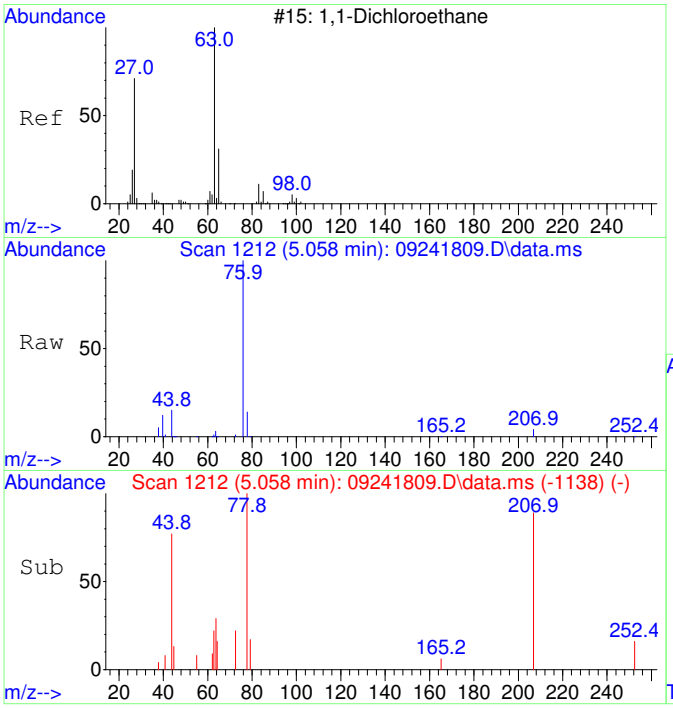


#27
trans-1,2-Dichloroethene SCAN
Concen: 82.04 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. 0.033 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 61 Resp: 280

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	0.0	12.7	72.7#

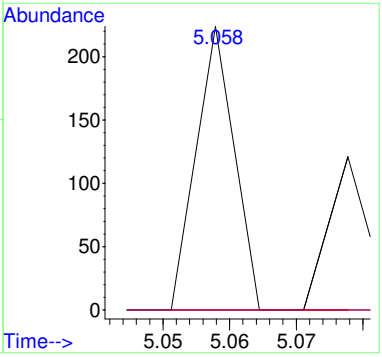


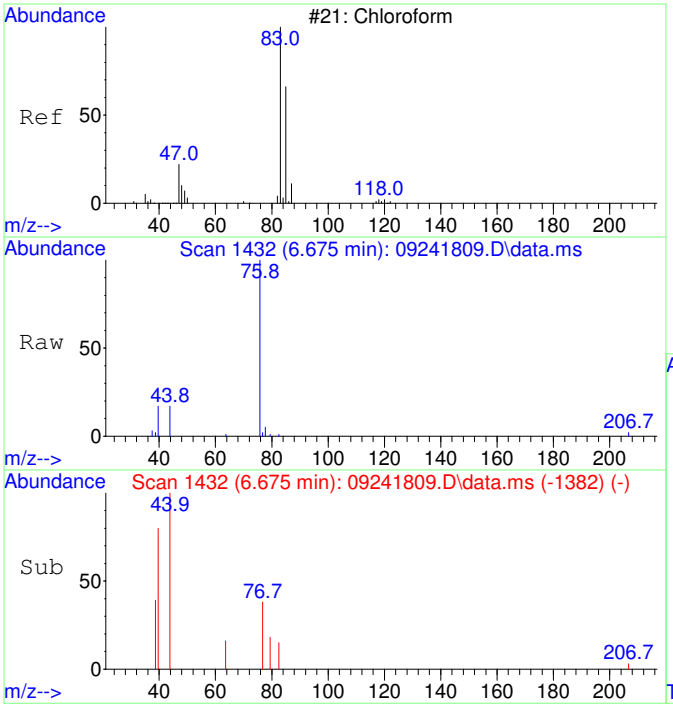


#28
1,1-Dichloroethane SCAN
Concen: 20.50 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 63 Resp: 89

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

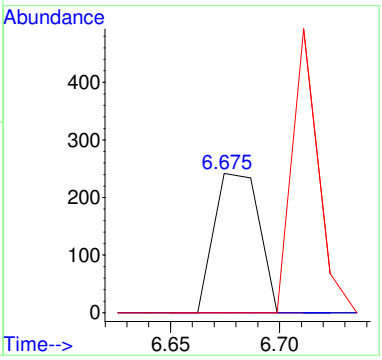


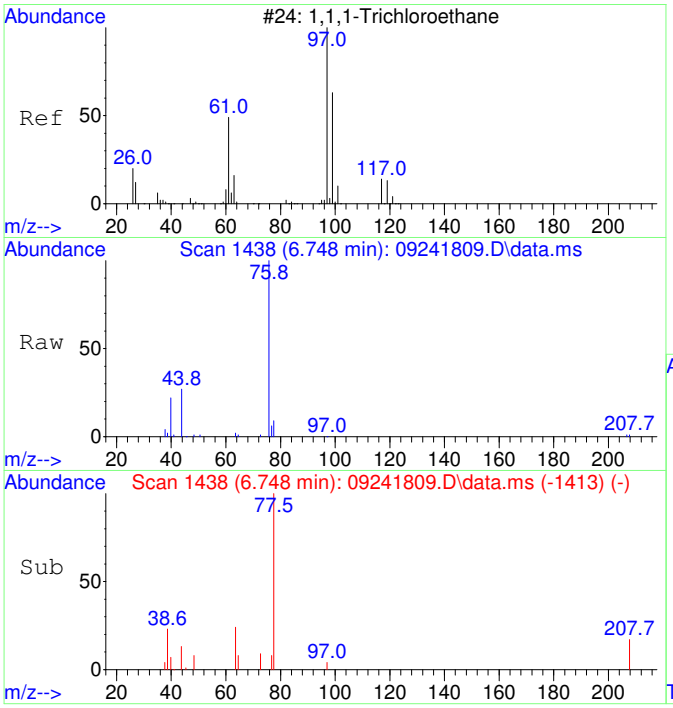


#30
Chloroform SCAN
Concen: 75.28 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.012 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 347

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

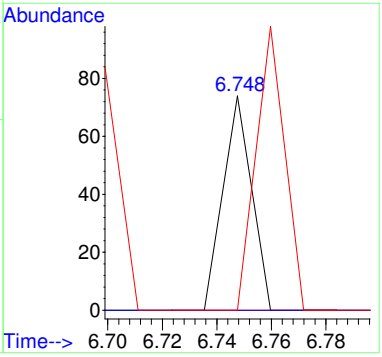


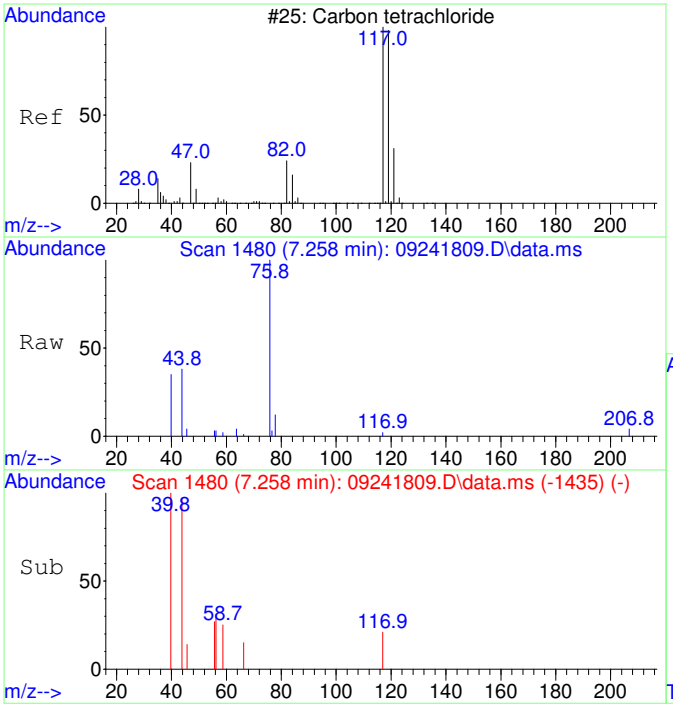


#31
1,1,1-Trichloroethane SCAN
Concen: 13.16 ug/L
RT: 6.748 min Scan# 1438
Delta R.T. -0.195 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 54

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	133.3	15.1	75.1#

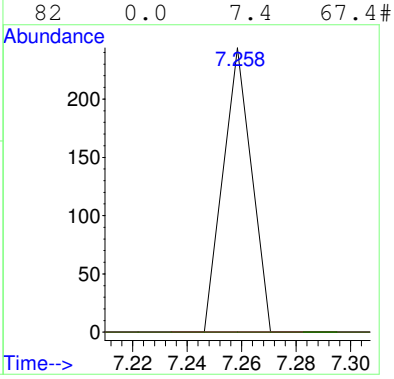


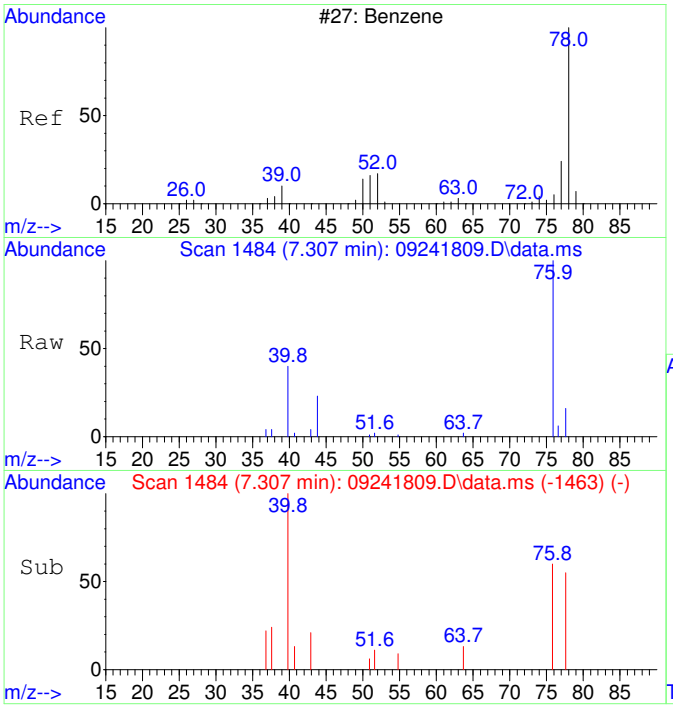


#32
Carbon tetrachloride SCAN
Concen: 44.03 ug/L
RT: 7.258 min Scan# 1480
Delta R.T. 0.049 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:117 Resp: 178

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

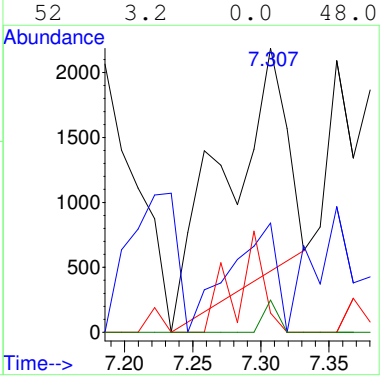


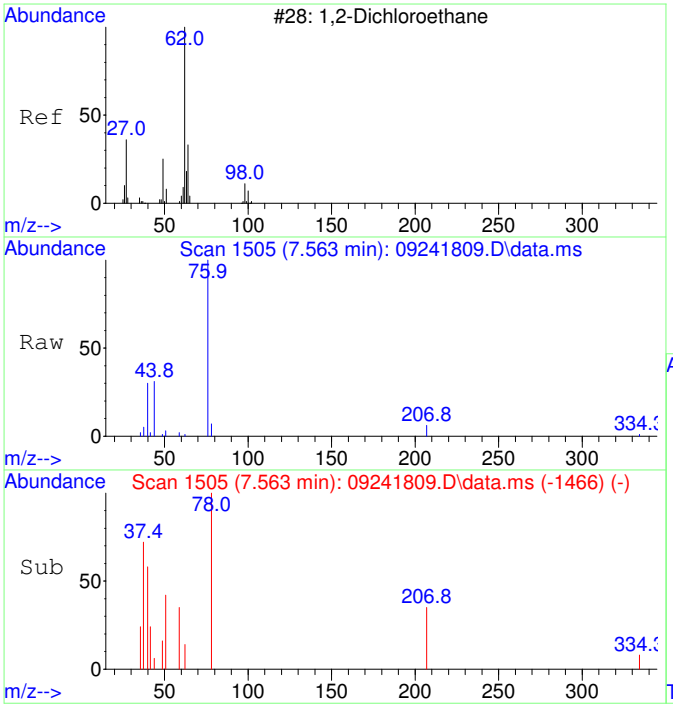


#33
Benzene SCAN
Concen: 460.12 ug/L
RT: 7.307 min Scan# 1484
Delta R.T. -0.243 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 78 Resp: 5630

Ion	Ratio	Lower	Upper
78	100		
77	21.1	3.0	63.0
51	19.9	0.0	56.4
52	3.2	0.0	48.0

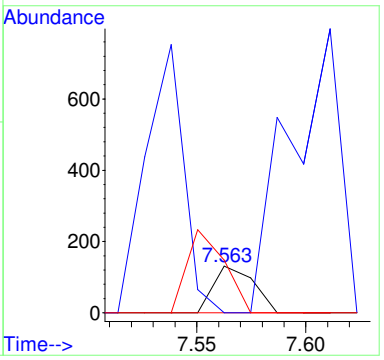


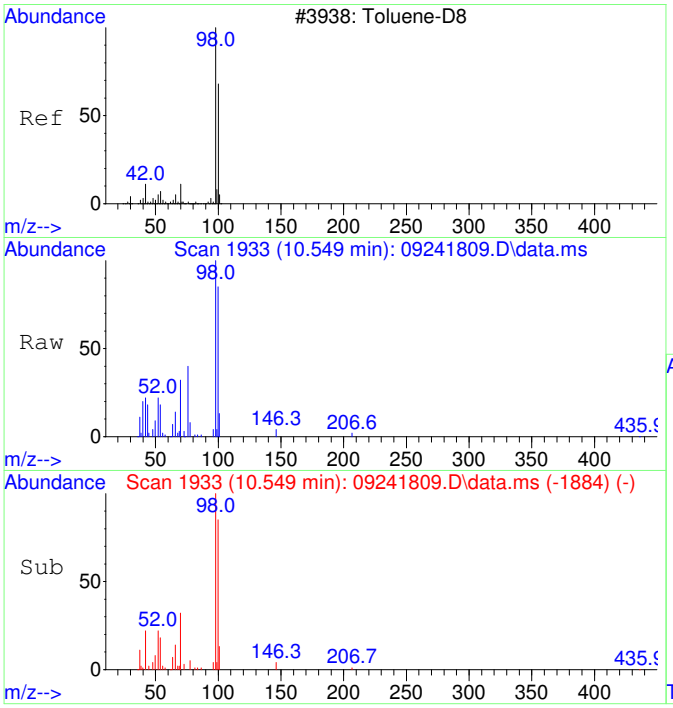


#34
1,2-Dichloroethane SCAN
Concen: 40.02 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. -0.024 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 62 Resp: 167

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	166.5	10.4	70.4#

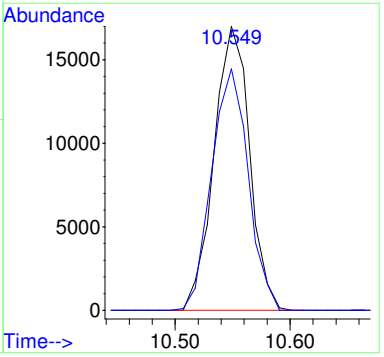


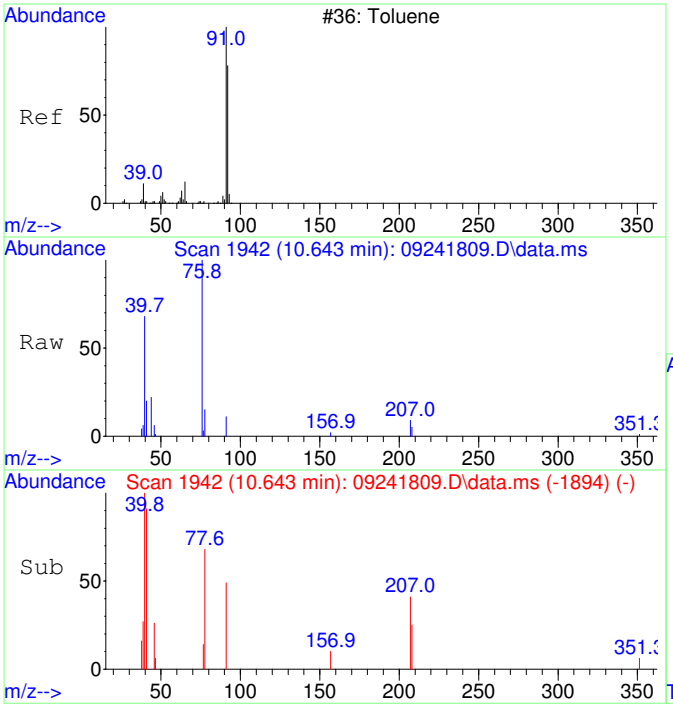


#36
Toluene-d8 SCAN
Concen: 3453.04 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 98 Resp: 36675

Ion	Ratio	Lower	Upper
98	100		
100	87.2	39.5	99.5

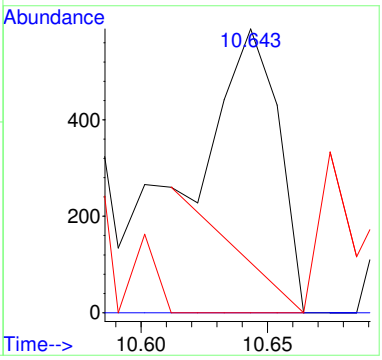


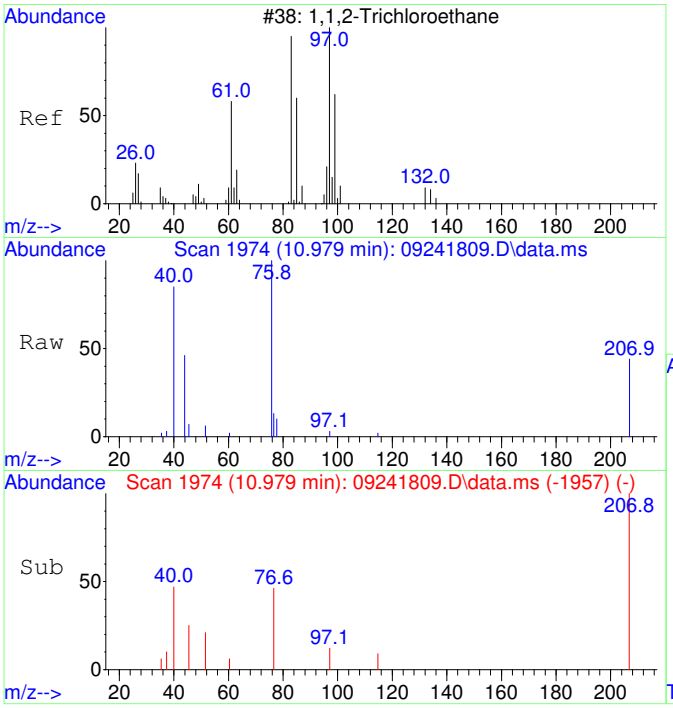


#37
Toluene SCAN
Concen: 48.28 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.000 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 655

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.6	86.6#
65	0.0	0.0	42.3

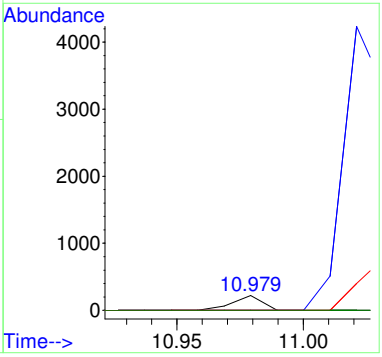


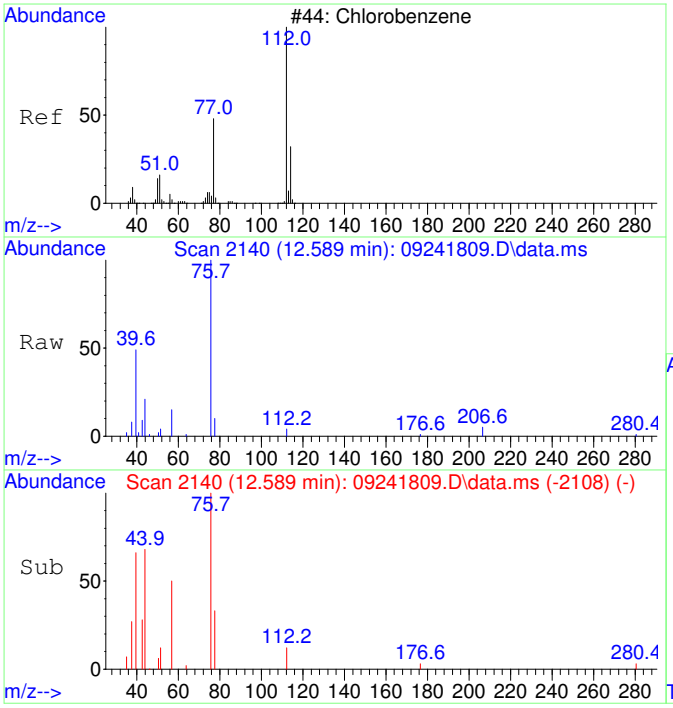


#38
1,1,2-Trichloroethane SCAN
Concen: 69.62 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. -0.325 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 97 Resp: 181

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

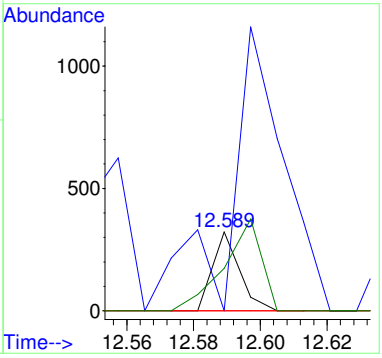


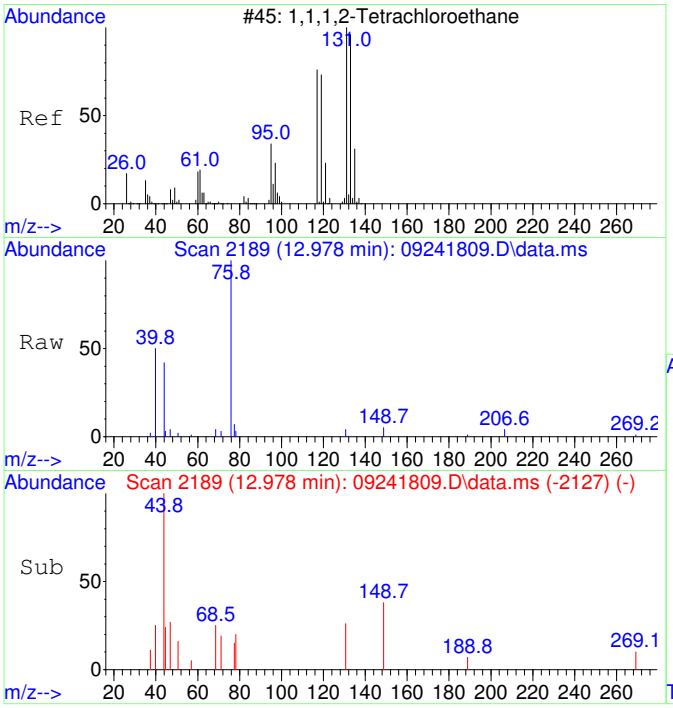


#40
Chlorobenzene SCAN
Concen: 21.99 ug/L
RT: 12.589 min Scan# 2140
Delta R.T. -0.246 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:112 Resp: 181

Ion	Ratio	Lower	Upper
112	100		
77	503.3	28.4	88.4#
114	0.0	0.0	59.5
51	162.4	0.0	53.7#

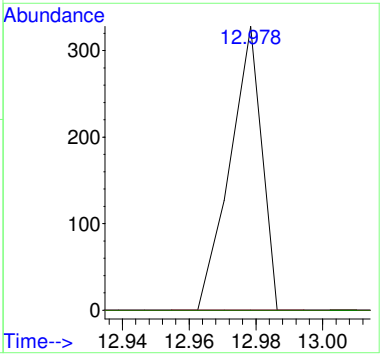


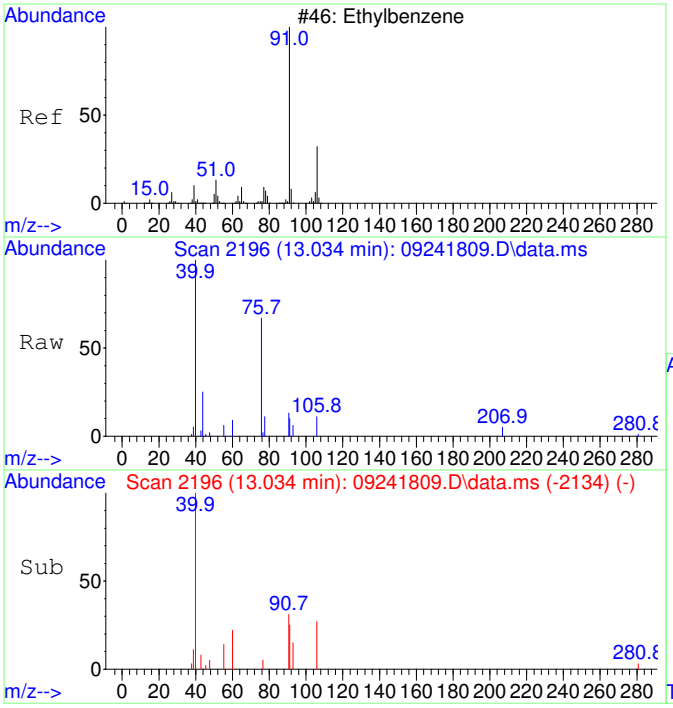


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 73.87 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:131 Resp: 217

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

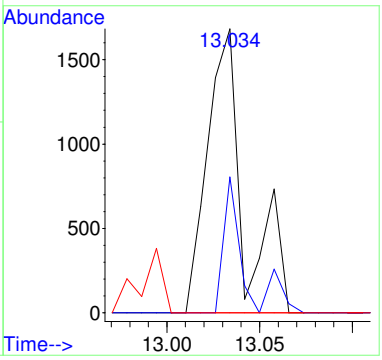


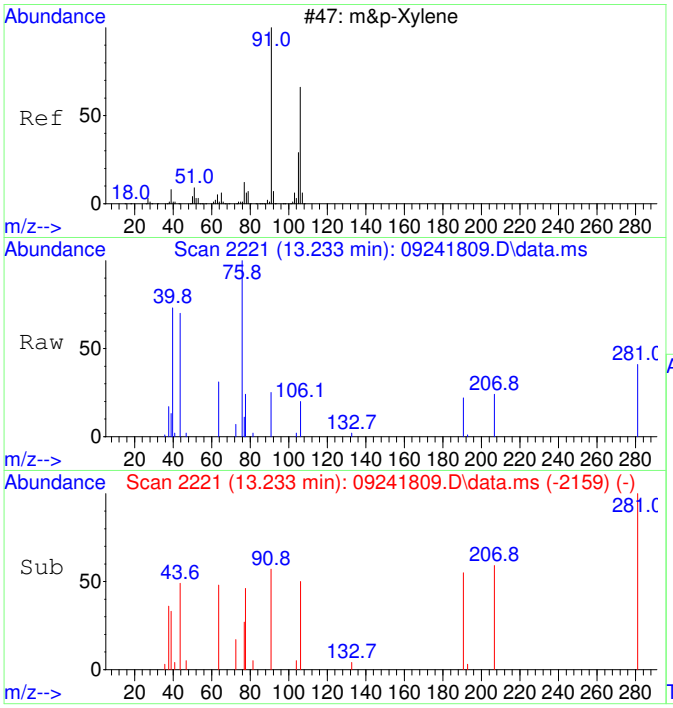


#42
Ethylbenzene SCAN
Concen: 146.35 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 2308

Ion	Ratio	Lower	Upper
91	100		
106	20.0	3.2	63.2
51	0.0	0.0	40.1

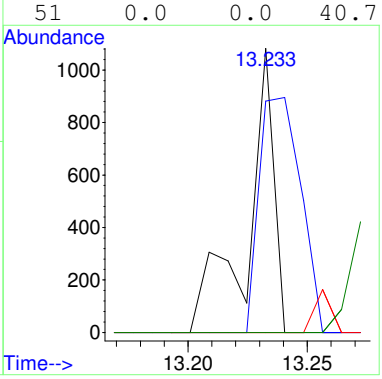


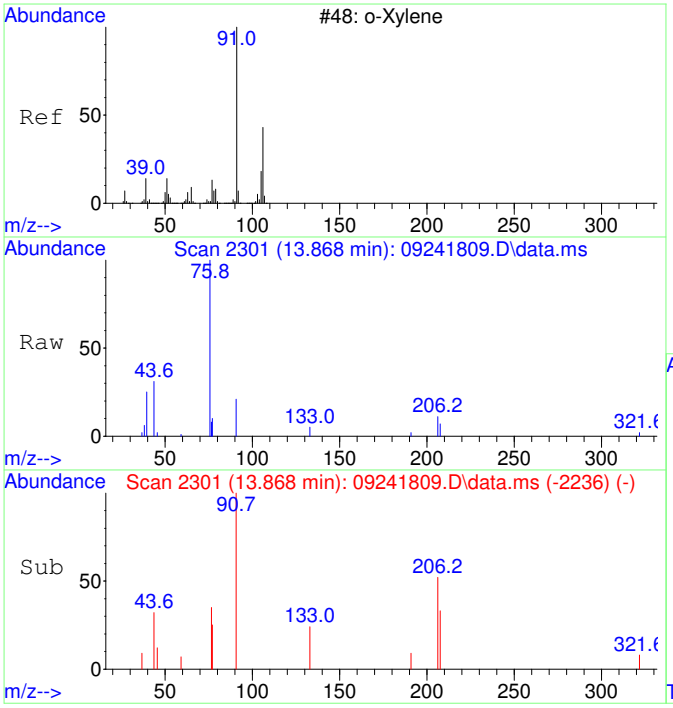


#43
m&p-Xylene SCAN
Concen: 38.60 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 845

Ion	Ratio	Lower	Upper
91	100		
106	128.5	20.1	80.1#
105	0.0	0.0	51.1
51	0.0	0.0	40.7

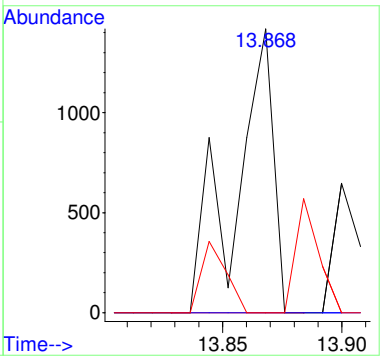


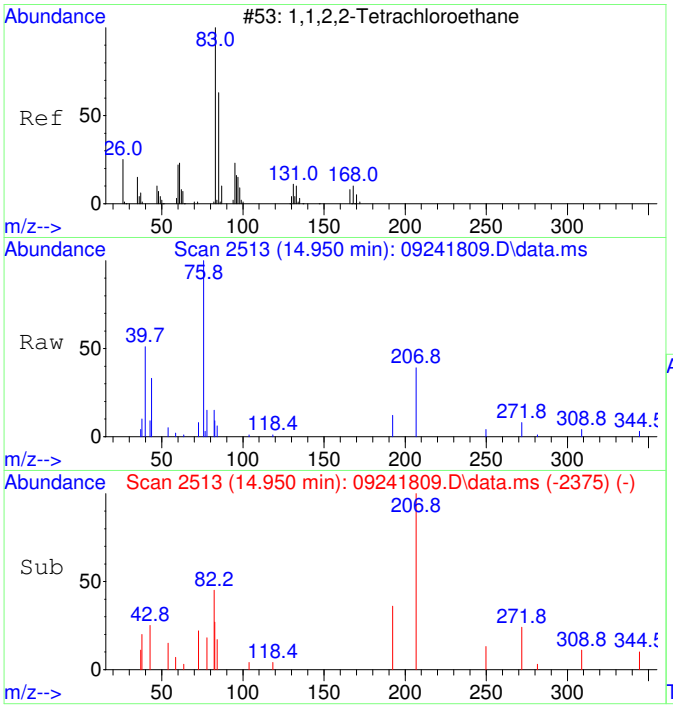


#44
o-Xylene SCAN
Concen: 126.01 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.016 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 91 Resp: 1570

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	24.3	0.0	55.2

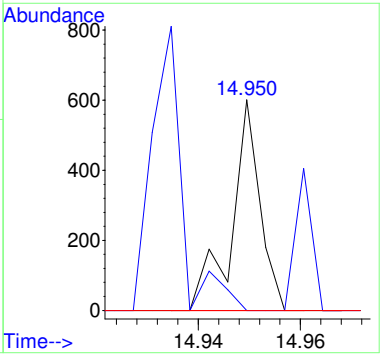


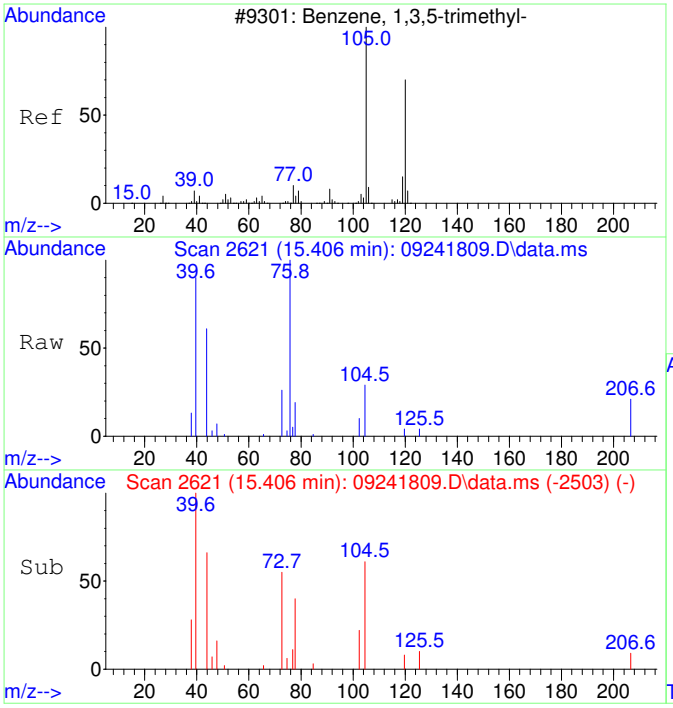


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 39.12 ug/L
RT: 14.950 min Scan# 2513
Delta R.T. 0.011 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion: 83 Resp: 231

Ion	Ratio	Lower	Upper
83	100		
85	39.0	31.6	91.6
95	0.0	0.0	49.0

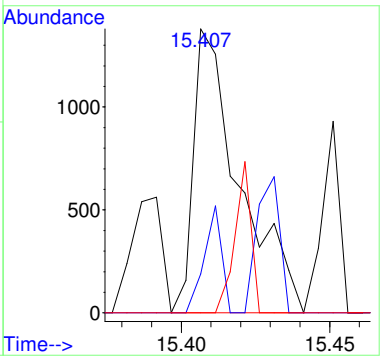


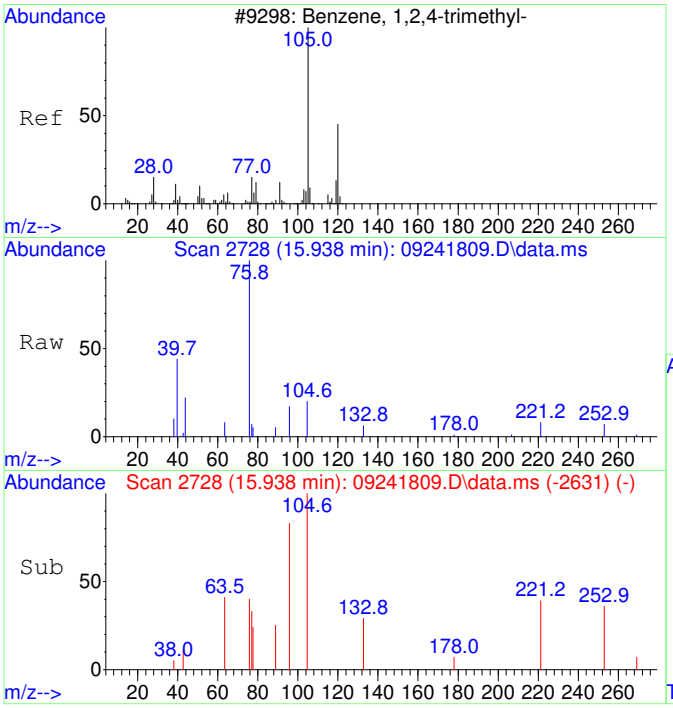


#46
1,3,5-Trimethylbenzene SCAN
Concen: 120.61 ug/L
RT: 15.406 min Scan# 2621
Delta R.T. -0.006 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 1490

Ion	Ratio	Lower	Upper
105	100		
120	14.2	16.8	76.8#
119	0.0	0.0	41.5

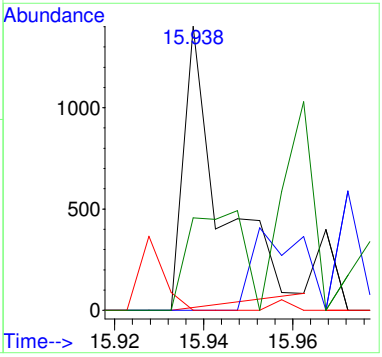


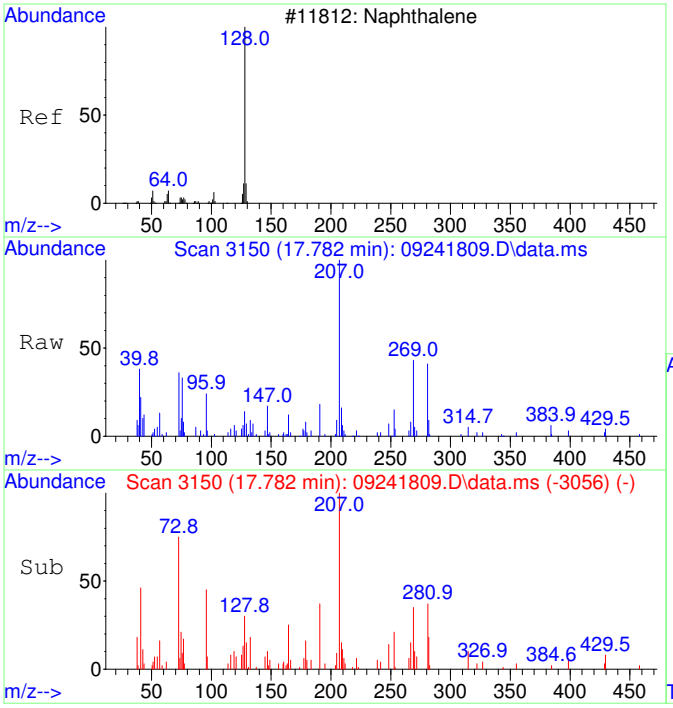


#47
1,2,4-Trimethylbenzene SCAN
Concen: 61.61 ug/L
RT: 15.938 min Scan# 2728
Delta R.T. -0.016 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:105 Resp: 780

Ion	Ratio	Lower	Upper
105	100		
120	39.9	15.4	75.4
119	0.0	0.0	41.7
77	53.5	0.0	42.0#

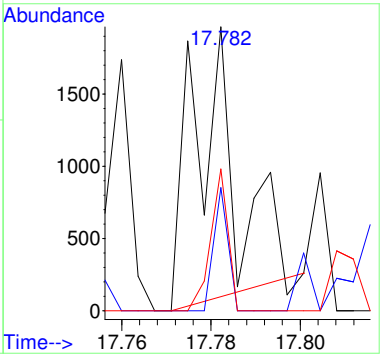




#48
Naphthalene SCAN
Concen: 70.69 ug/L
RT: 17.782 min Scan# 3150
Delta R.T. -0.152 min
Lab File: 09241809.D
Acq: 24 Sep 2018 15:25

Tgt Ion:128 Resp: 1277

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	43.9
129	20.8	0.0	40.5



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 18260B
Client: California Site Cleanup Section 3
Project: MEW OU3 2018 Air and Sewer Gas Investigation
Instrument ID: AG5975CV
Calibration: 1806010
Sequence: S18I078

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S18I078-CRL1	**1,1-Dichloroethene**	**150**	**257**	**172**	**ug/L**	**60 - 140**
	trans-1,2-Dichloroethene	150	151	101	ug/L	60 - 140
	1,1-Dichloroethane	150	147	98	ug/L	60 - 140
	cis-1,2-Dichloroethene	150	145	97	ug/L	60 - 140
	Chloroform	150	152	101	ug/L	60 - 140
	Trichloroethene	150	154	103	ug/L	60 - 140
	Tetrachloroethene	150	164	109	ug/L	60 - 140
	Toluene-d8	150	157	104	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S18I078-CRL1
Misc Info: 1823102 0.15 mg/L
Date Acquired: 9/24/18 13:26
QLast Update: Thu Jun 28 07:20:56 2018
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
9)	Benzene	7.552	150.0	161.96	108%	60	140	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241804.D
Acq On : 24 Sep 2018 13:26
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL1
Misc : 1823102 0.15 mg/L (Sig #1); 1823100 5 mg/L (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 26 14:29:01 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

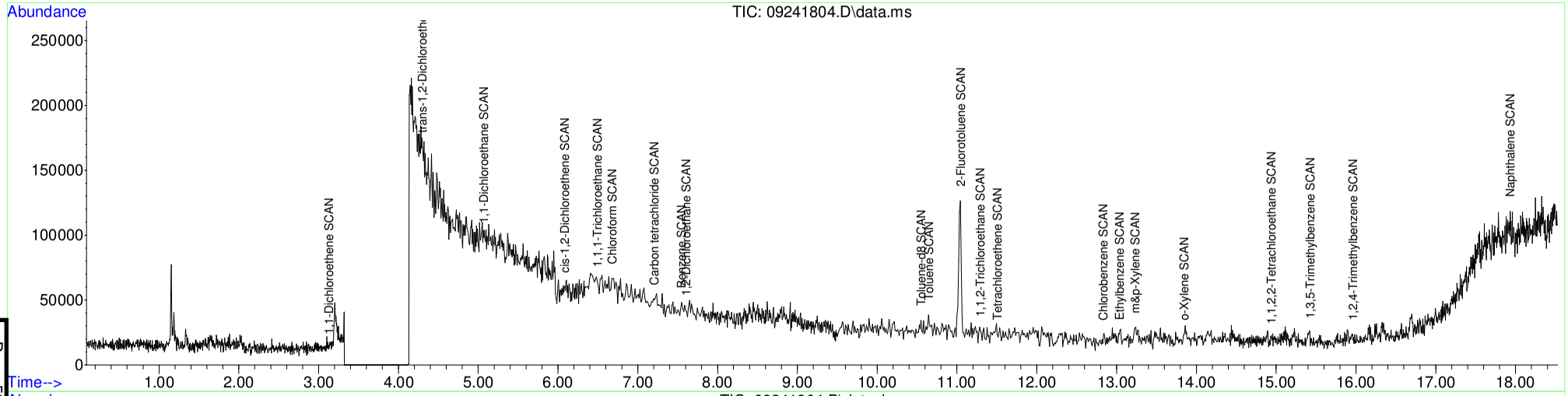
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	130943	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	3329	156.52 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	3.13%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	1413	257.49 ug/L	93
3] trans-1,2-Dichloroethene	4.316	61	887	151.49 ug/L	89
4] 1,1-Dichloroethane	5.072	63	1070	146.82 ug/L	92
5] cis-1,2-Dichloroethene	6.101	61	1044	145.21 ug/L	88
6] Chloroform	6.676	83	1175	151.79 ug/L	89
7] 1,1,1-Trichloroethane	6.944	97	1036	135.97 ug/L	98
8] Carbon tetrachloride	7.211	117	913	126.50 ug/L	75
9] Benzene	7.552	78	3405	161.96 ug/L	91
10] 1,2-Dichloroethane	7.588	62	831	122.64 ug/L	99
11] Trichloroethene	8.624	130	889	153.85 ug/L	91
13] Toluene	10.645	91	4533	158.96 ug/L	99
14] 1,1,2-Trichloroethane	11.295	97	897	152.18 ug/L	94
15] Tetrachloroethene	11.495	166	1316	163.79 ug/L	95
16] Chlorobenzene	12.837	112	3153	154.91 ug/L	86
17] 1,1,1,2-Tetrachloroethane	12.980	131	1175	170.11 ug/L	79
18] Ethylbenzene	13.035	91	5940	173.57 ug/L	98
19] m&p-Xylene	13.234	91	9239	349.79 ug/L	97
20] o-Xylene	13.846	91	5014	179.24 ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.951	83	2106	174.81 ug/L	99
22] 1,3,5-Trimethylbenzene	15.414	105	5173	163.44 ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	5530	174.67 ug/L	100
24] Naphthalene	17.936	128	10329	198.80 ug/L	94
25) 2-Fluorotoluene SCAN	11.042	109	83560	5476.34 ug/L	94
26) 1,1-Dichloroethene SCAN	3.129	61	216	56.73 ug/L #	1
27) trans-1,2-Dichloroethe...	4.302	61	289	65.20 ug/L #	1
28) 1,1-Dichloroethane SCAN	5.071	63	1350	239.40 ug/L #	56
29) cis-1,2-Dichloroethene...	6.080	61	346	70.95 ug/L #	30
30) Chloroform SCAN	6.675	83	706	117.94 ug/L #	64
31) 1,1,1-Trichloroethane ...	6.492	97	211	39.60 ug/L #	26
32) Carbon tetrachloride SCAN	7.210	117	341	64.94 ug/L #	30
33) Benzene SCAN	7.550	78	4488	282.43 ug/L #	69
34) 1,2-Dichloroethane SCAN	7.599	62	350	64.58 ug/L #	1
36) Toluene-d8 SCAN	10.549	98	3224	233.73 ug/L	64
37) Toluene SCAN	10.643	91	4226	239.84 ug/L #	31
38) 1,1,2-Trichloroethane ...	11.294	97	494	146.31 ug/L #	5
39) Tetrachloroethene SCAN	11.504	166	470	121.56 ug/L #	5
40) Chlorobenzene SCAN	12.836	112	1942	181.69 ug/L	81
42) Ethylbenzene SCAN	13.034	91	5257	256.68 ug/L	64
43) m&p-Xylene SCAN	13.233	91	6261	220.23 ug/L	89
44) o-Xylene SCAN	13.844	91	3585	221.56 ug/L #	63
45) 1,1,2,2-Tetrachloroeth...	14.942	83	620	80.85 ug/L #	59
46) 1,3,5-Trimethylbenzene...	15.423	105	3047	189.92 ug/L #	59
47) 1,2,4-Trimethylbenzene...	15.959	105	3418	207.88 ug/L #	54
48) Naphthalene SCAN	17.935	128	7121	303.55 ug/L	71

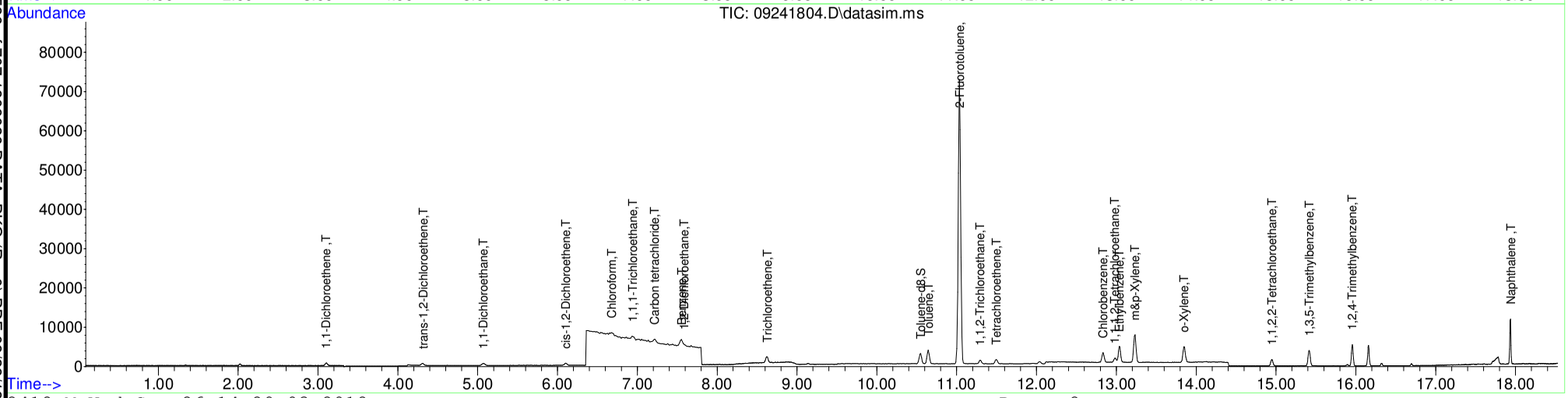
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241804.D
Acq On : 24 Sep 2018 13:26
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL1
Misc : 1823102 0.15 mg/L (Sig #1); 1823100 5 mg/L (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 26 14:29:01 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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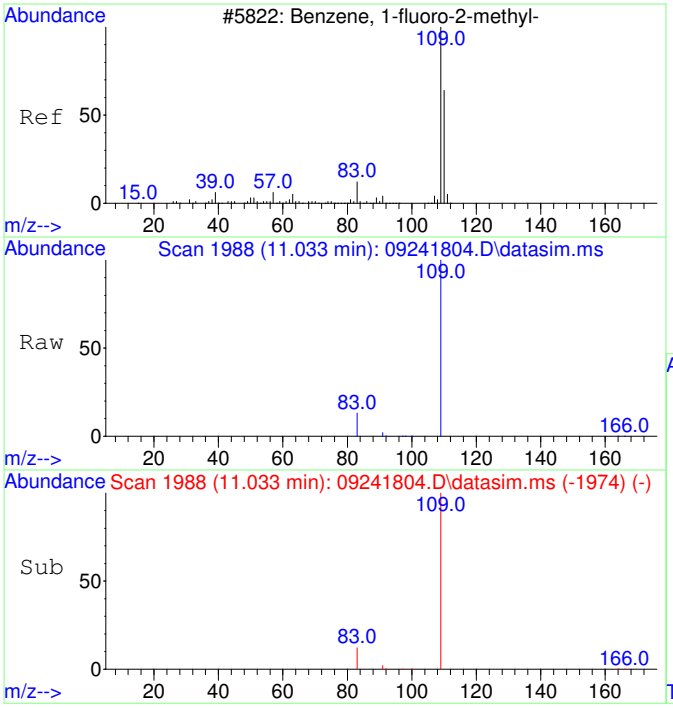
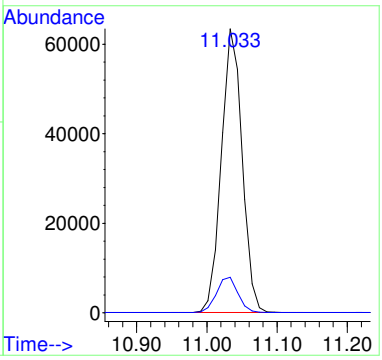
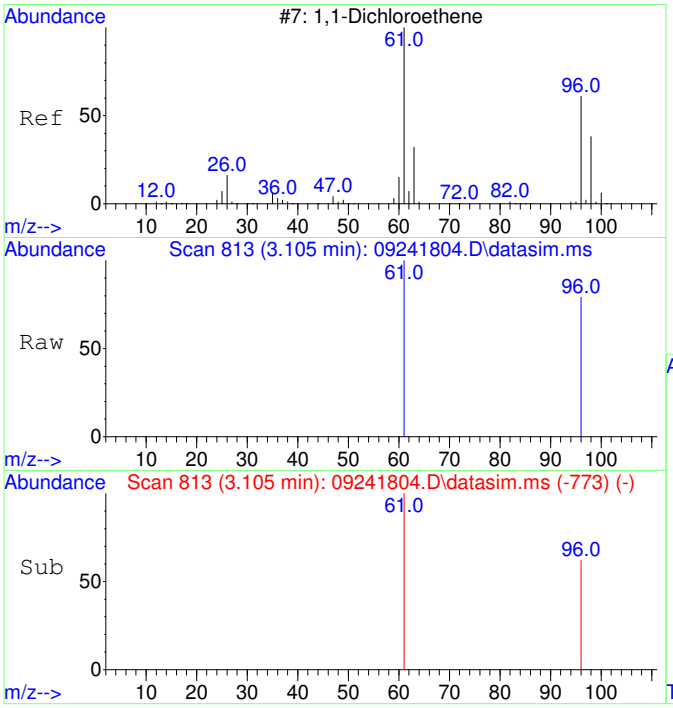


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:109 Resp: 130943

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.7

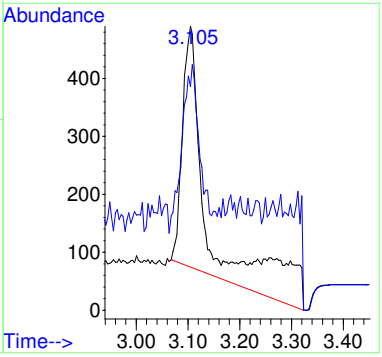


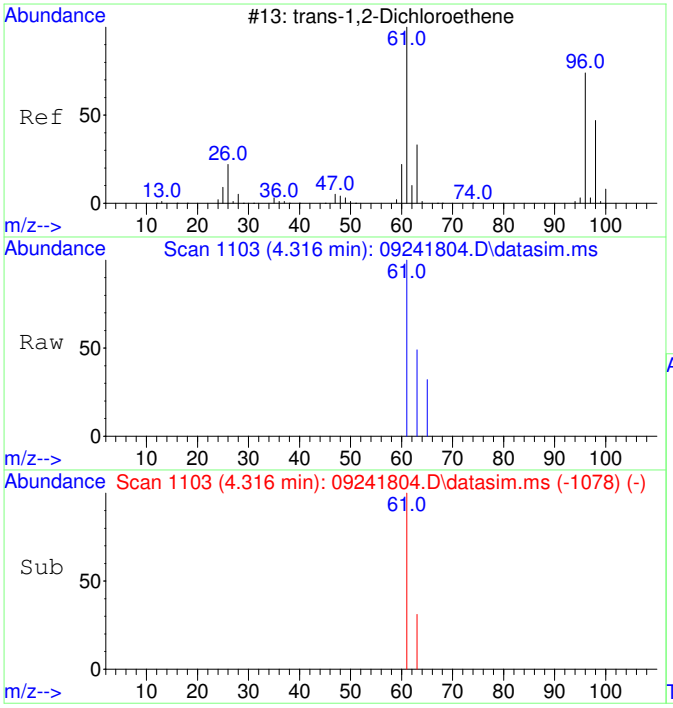


#2
1,1-Dichloroethene
Concen: 257.49 ug/L
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 1413

Ion	Ratio	Lower	Upper
61	100		
96	64.0	28.7	88.7

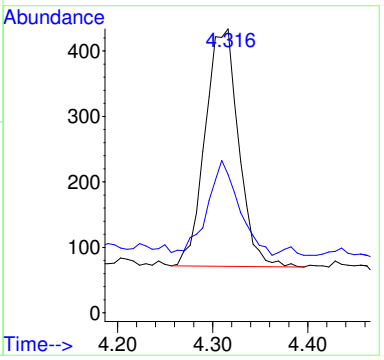


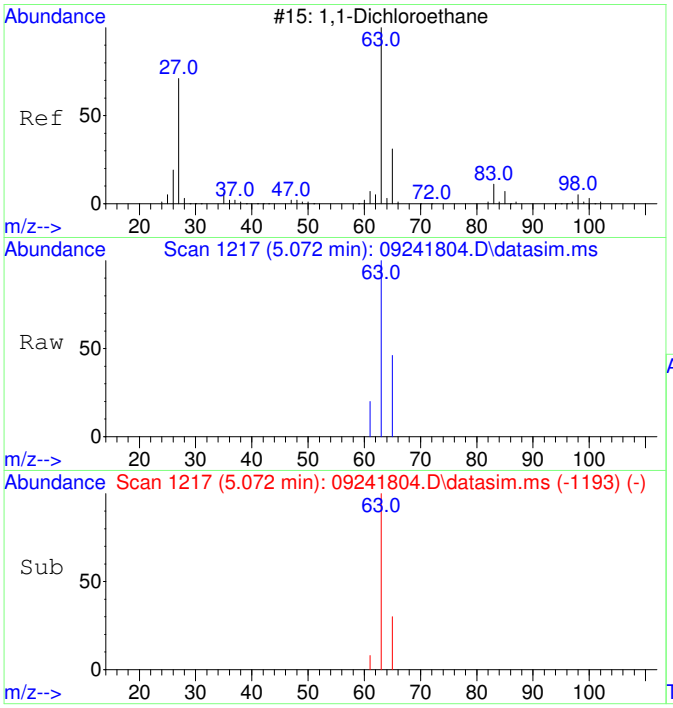


#3
trans-1,2-Dichloroethene
Concen: 151.49 ug/L
RT: 4.316 min Scan# 1103
Delta R.T. 0.013 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 887

Ion	Ratio	Lower	Upper
61	100		
63	38.1	2.0	62.0

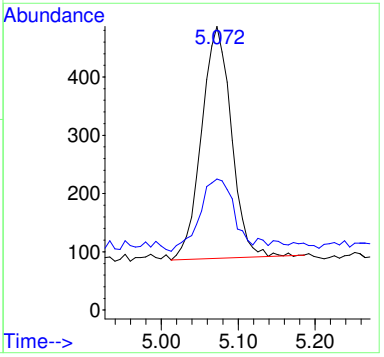


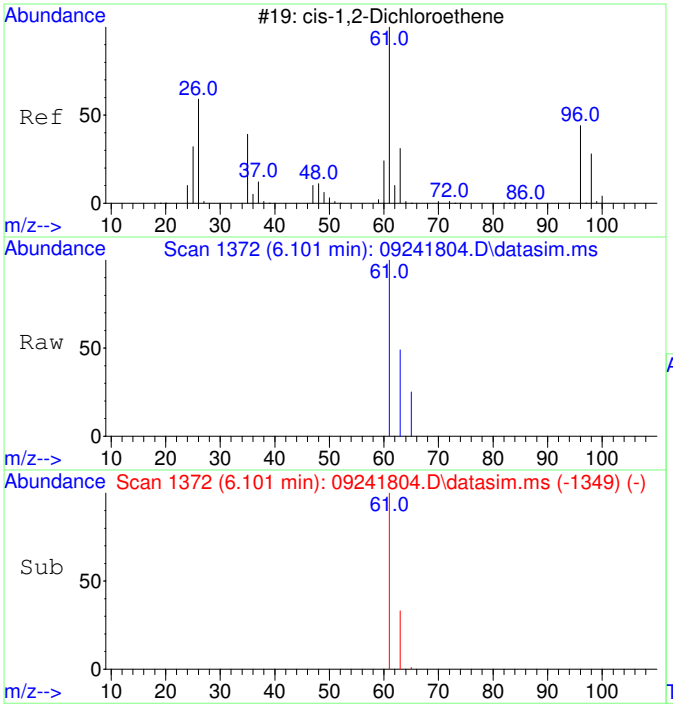


#4
1,1-Dichloroethane
Concen: 146.82 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 63 Resp: 1070

Ion	Ratio	Lower	Upper
63	100		
65	35.8	1.5	61.5

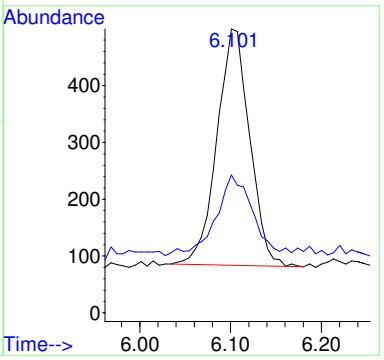


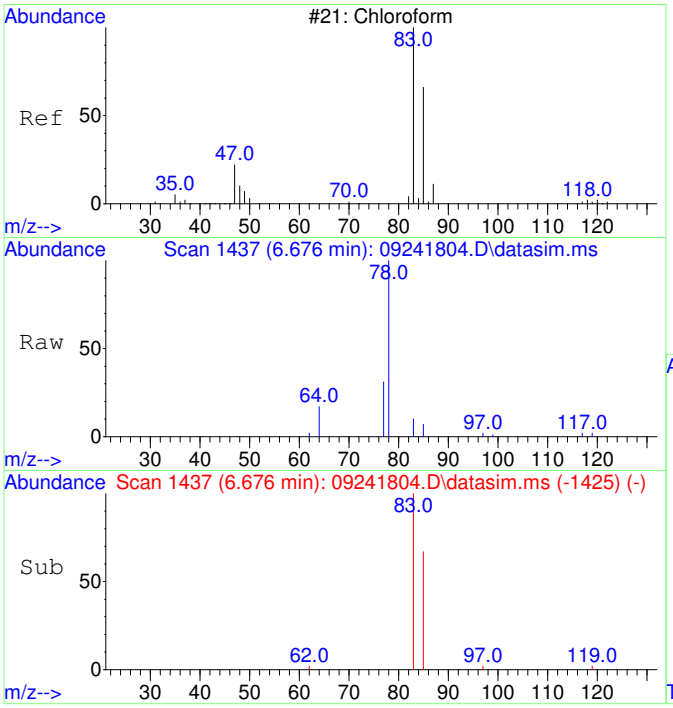


#5
cis-1,2-Dichloroethene
Concen: 145.21 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 1044

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.2	62.2

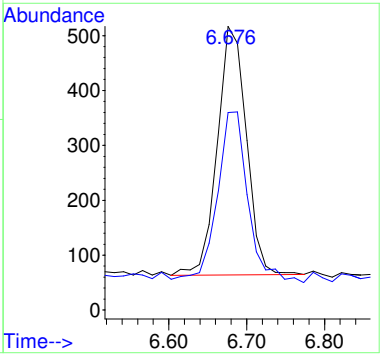


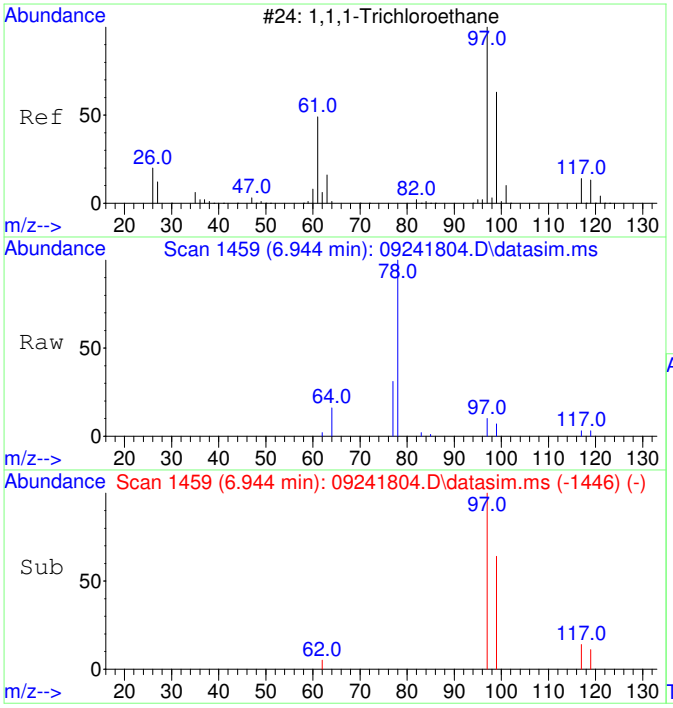


#6
Chloroform
Concen: 151.79 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 83 Resp: 1175

Ion	Ratio	Lower	Upper
83	100		
85	73.4	34.8	94.8

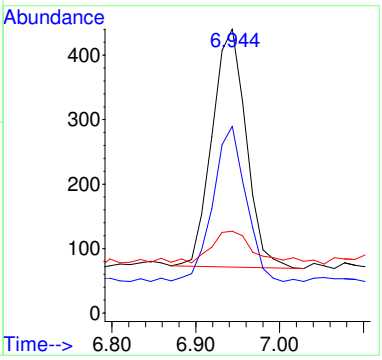


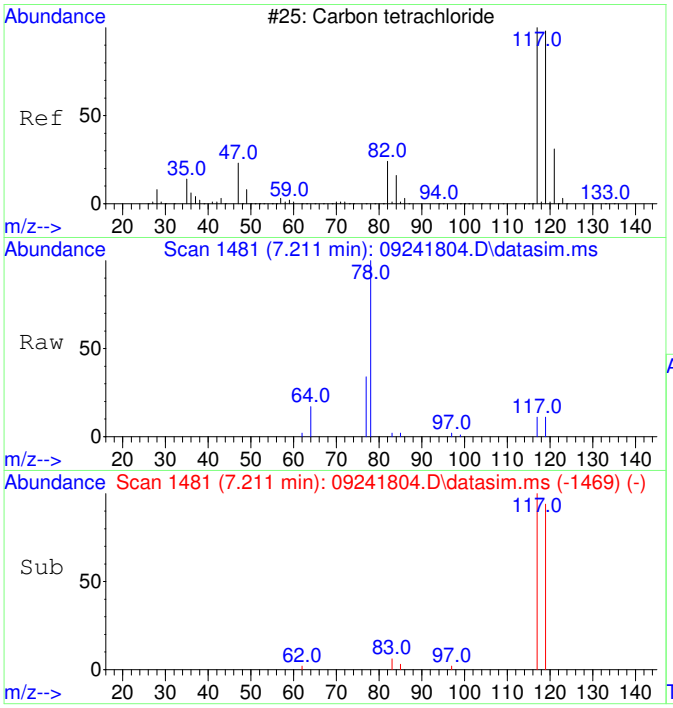


#7
1,1,1-Trichloroethane
Concen: 135.97 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 97 Resp: 1036

Ion	Ratio	Lower	Upper
97	100		
99	63.6	34.6	94.6
117	15.3	0.0	42.9

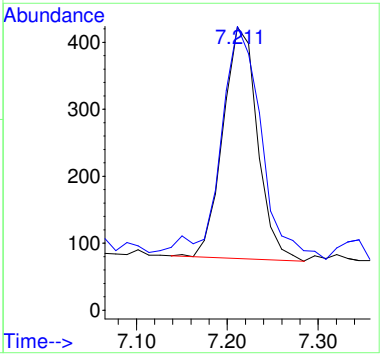


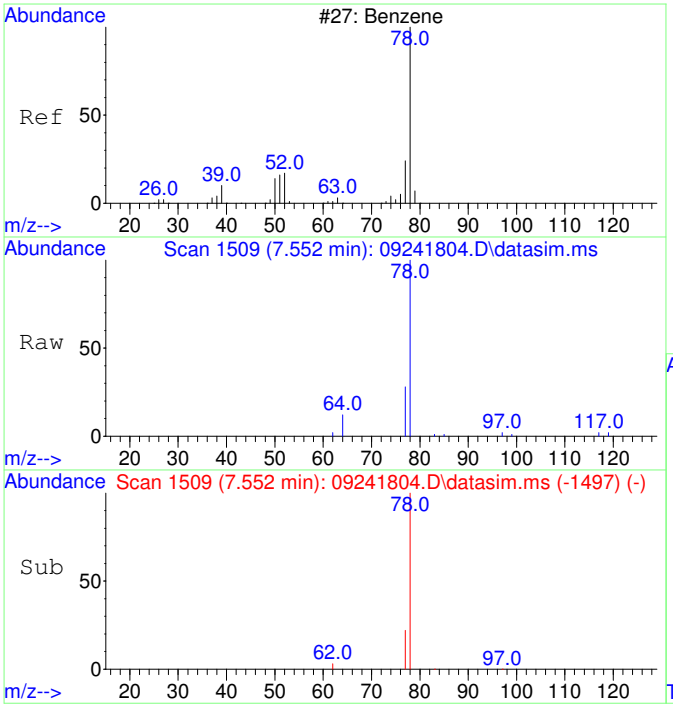


#8
Carbon tetrachloride
Concen: 126.50 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:117 Resp: 913

Ion	Ratio	Lower	Upper
117	100		
119	120.6	65.9	125.9

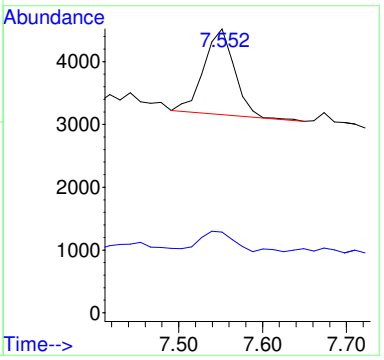


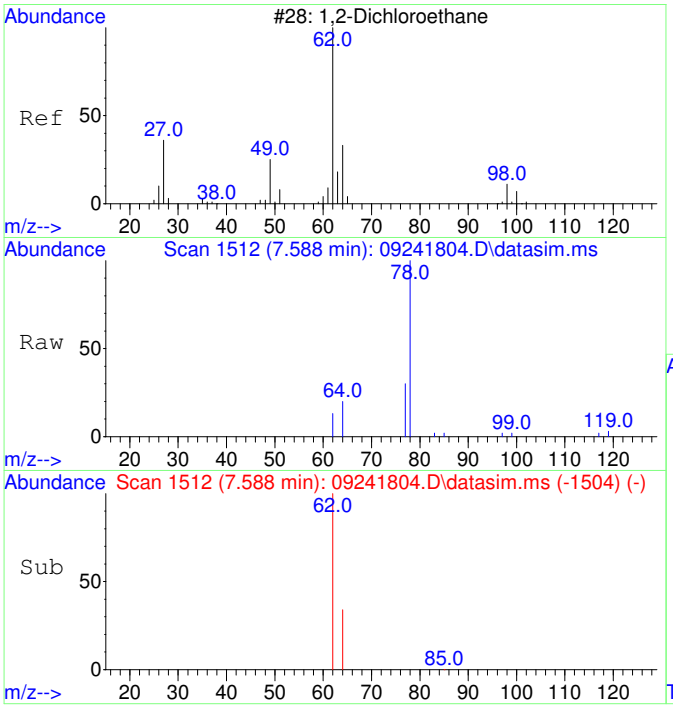


#9
Benzene
Concen: 161.96 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 78 Resp: 3405

Ion	Ratio	Lower	Upper
78	100		
77	27.3	0.0	53.0

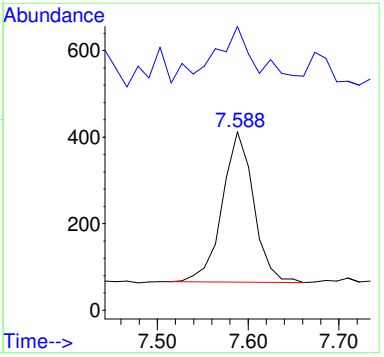


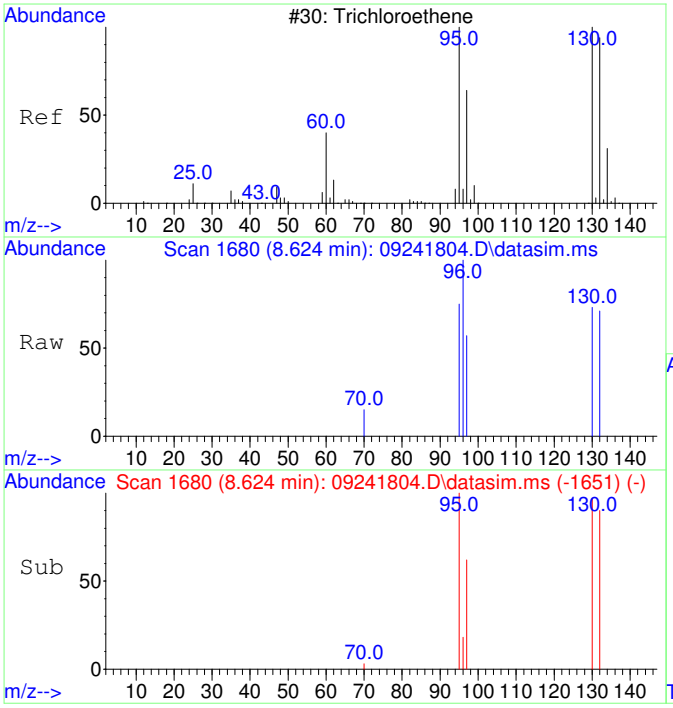


#10
1,2-Dichloroethane
Concen: 122.64 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 62 Resp: 831

Ion	Ratio	Lower	Upper
62	100		
64	31.5	2.3	62.3

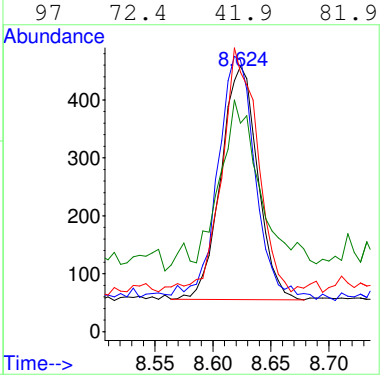


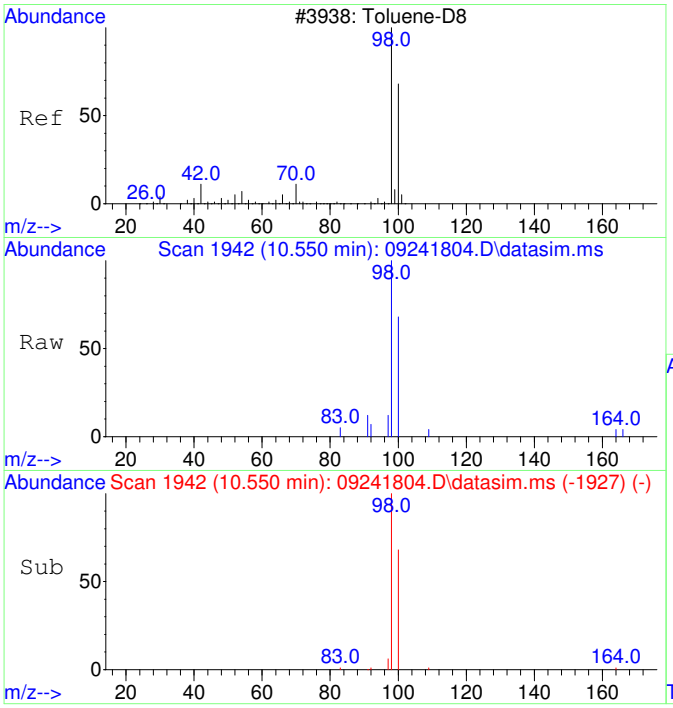


#11
Trichloroethene
Concen: 153.85 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:130 Resp: 889

Ion	Ratio	Lower	Upper
130	100		
95	107.3	66.0	126.0
132	101.5	78.8	118.8
97	72.4	41.9	81.9

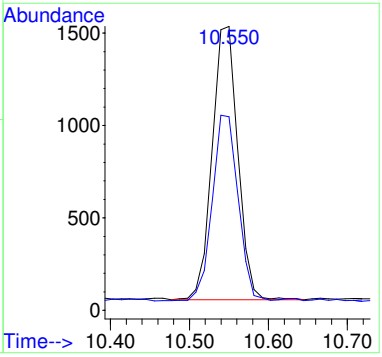


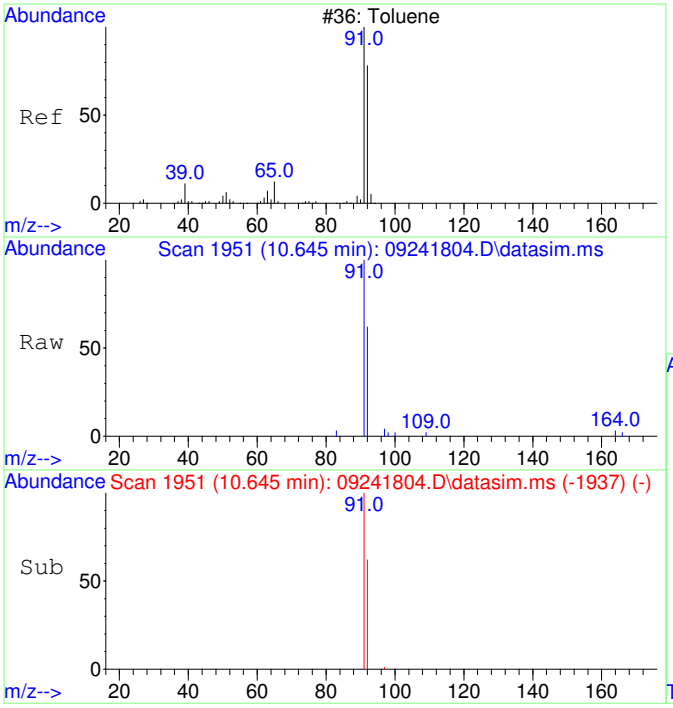


#12
Toluene-d8
Concen: 156.52 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.011 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 98 Resp: 3329

Ion	Ratio	Lower	Upper
98	100		
100	68.0	38.7	98.7

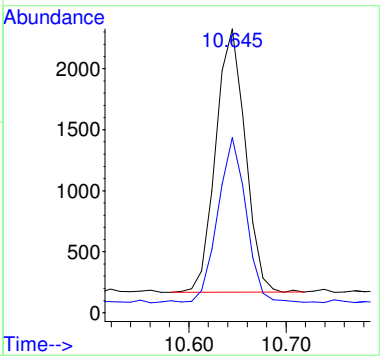


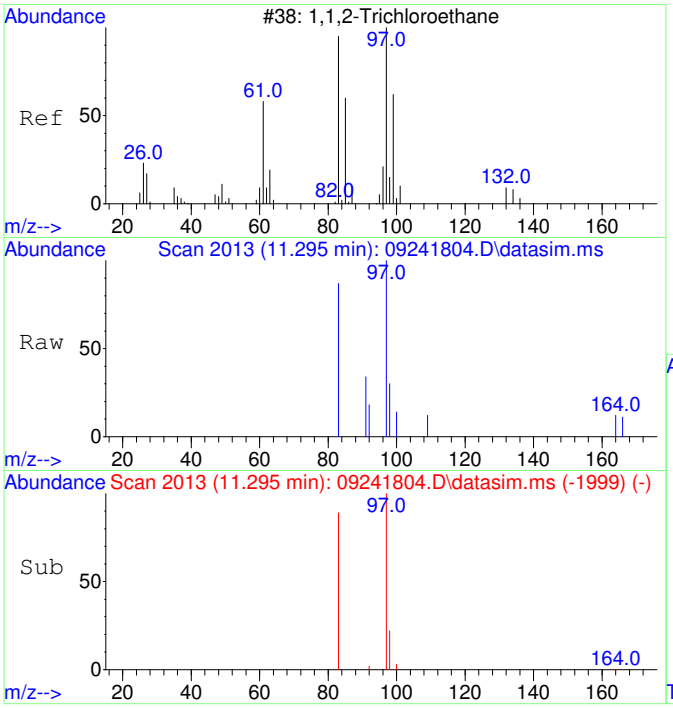


#13
Toluene
Concen: 158.96 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 4533

Ion	Ratio	Lower	Upper
91	100		
92	60.4	30.0	90.0

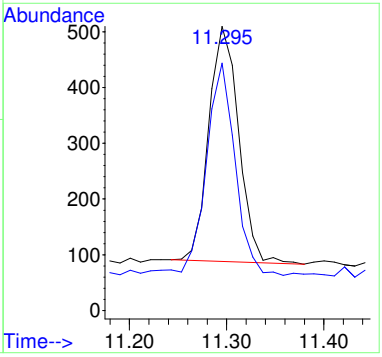


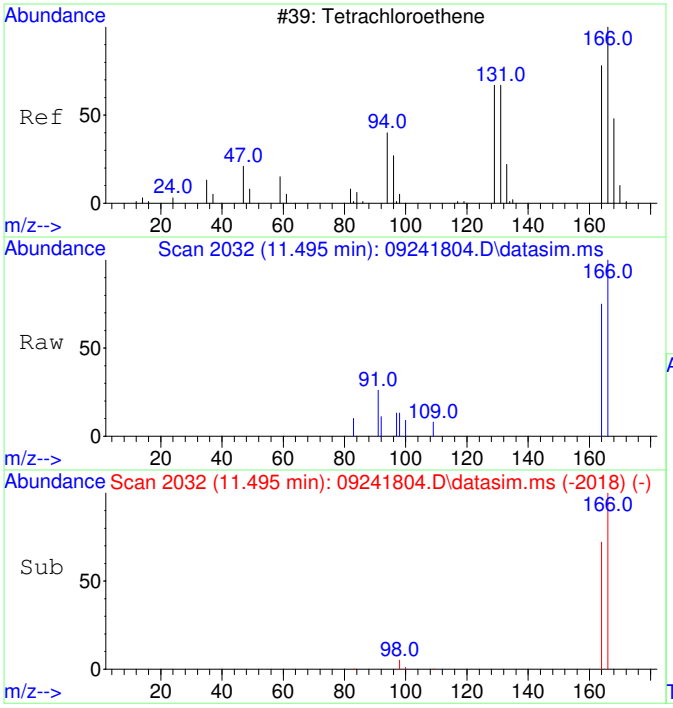


#14
1,1,2-Trichloroethane
Concen: 152.18 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 97 Resp: 897

Ion	Ratio	Lower	Upper
97	100		
83	88.9	53.4	113.4

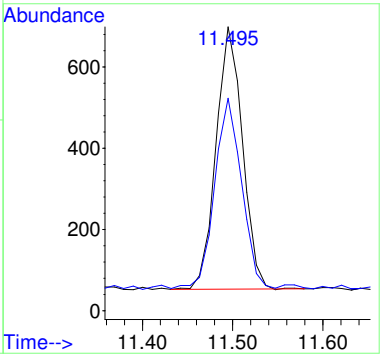


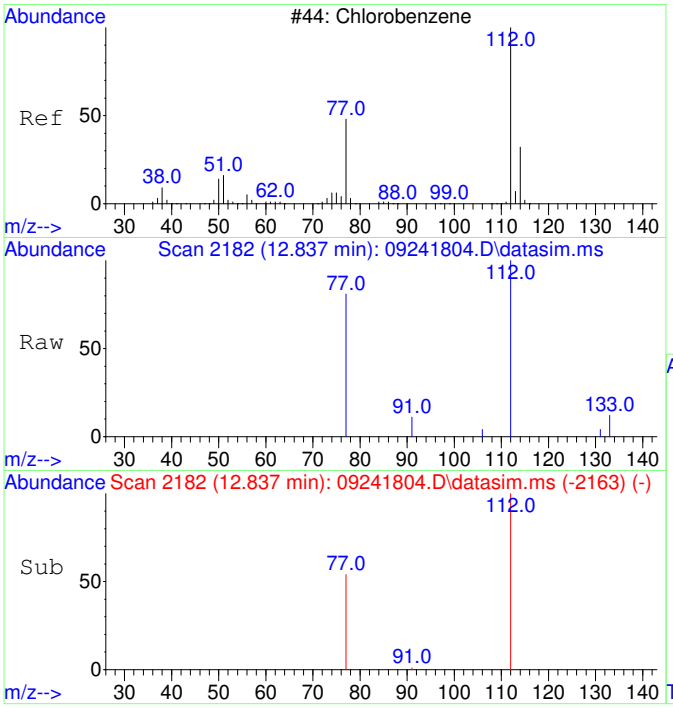


#15
Tetrachloroethene
Concen: 163.79 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:166 Resp: 1316

Ion	Ratio	Lower	Upper
166	100		
164	73.3	47.8	107.8

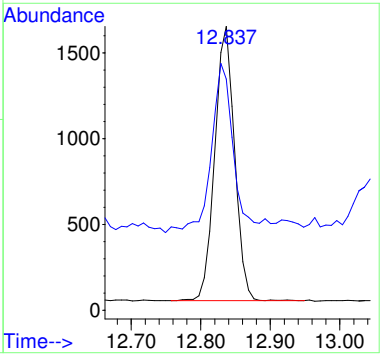


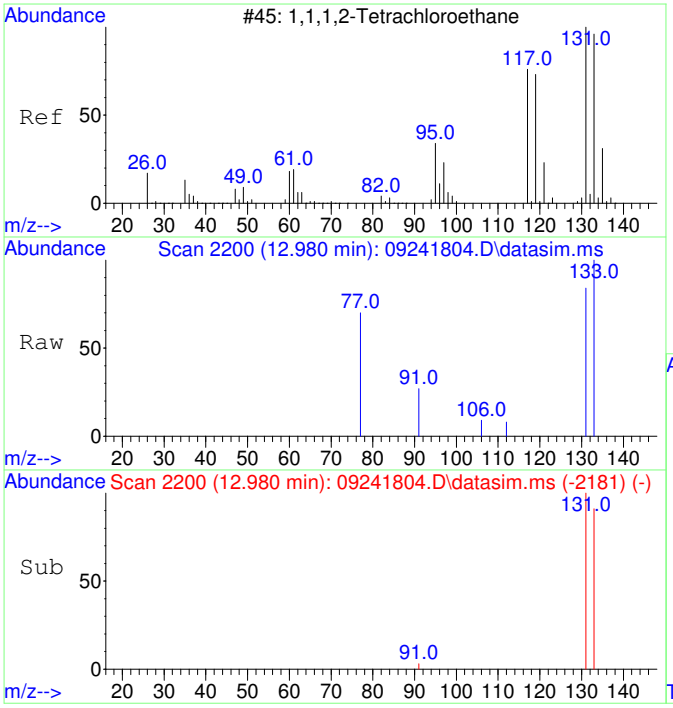


#16
Chlorobenzene
Concen: 154.91 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:112 Resp: 3153

Ion	Ratio	Lower	Upper
112	100		
77	68.5	28.1	88.1

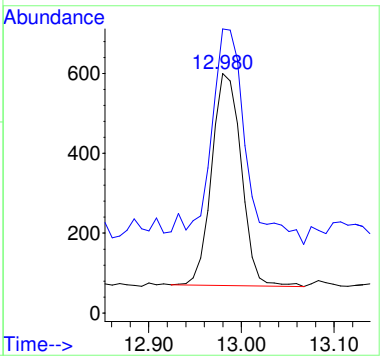


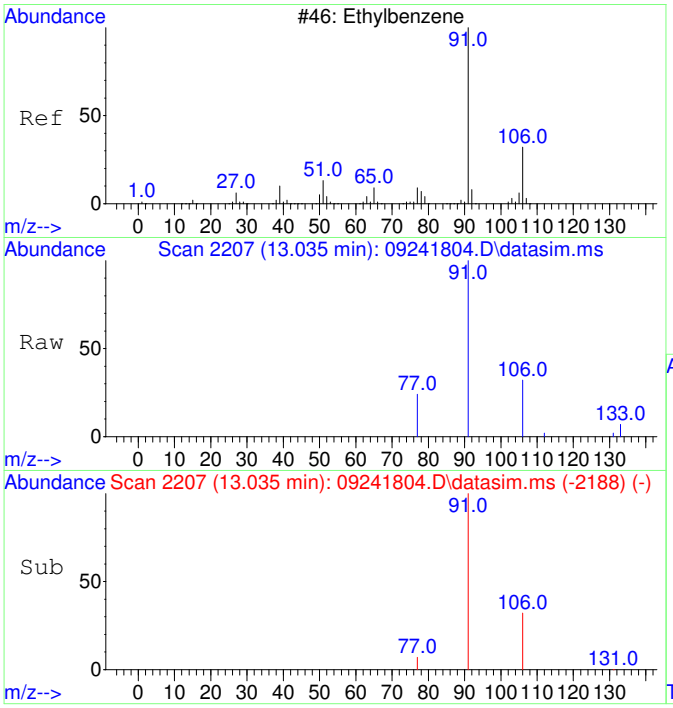


#17
1,1,1,2-Tetrachloroethane
Concen: 170.11 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:131 Resp: 1175

Ion	Ratio	Lower	Upper
131	100		
133	116.9	66.2	126.2

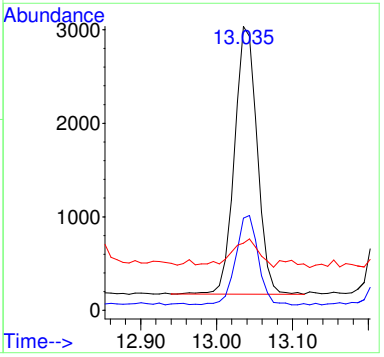


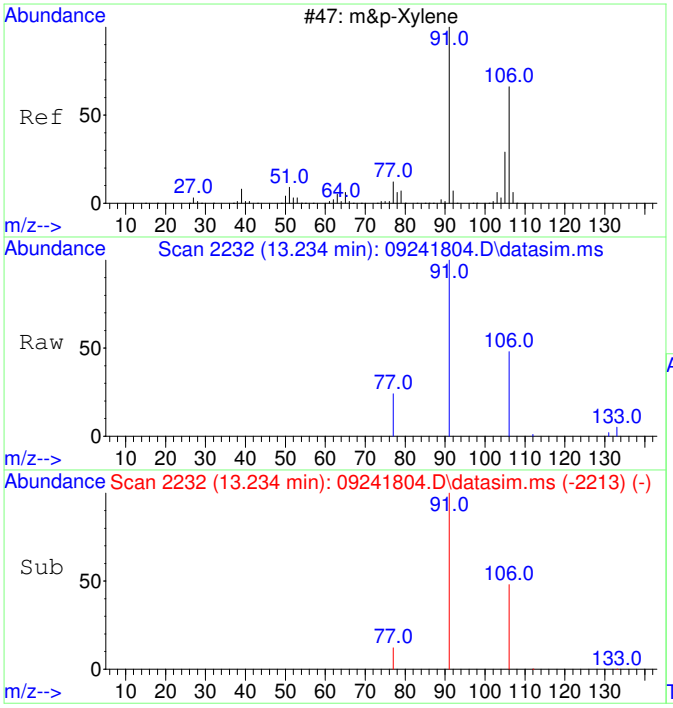


#18
Ethylbenzene
Concen: 173.57 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 5940

Ion	Ratio	Lower	Upper
91	100		
106	33.0	2.8	62.8
77	12.5	0.0	38.6

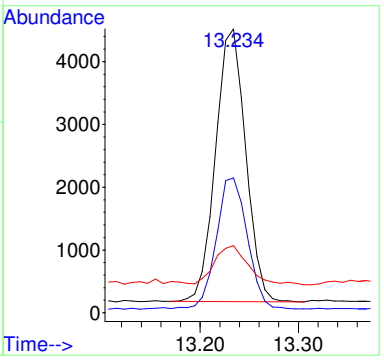


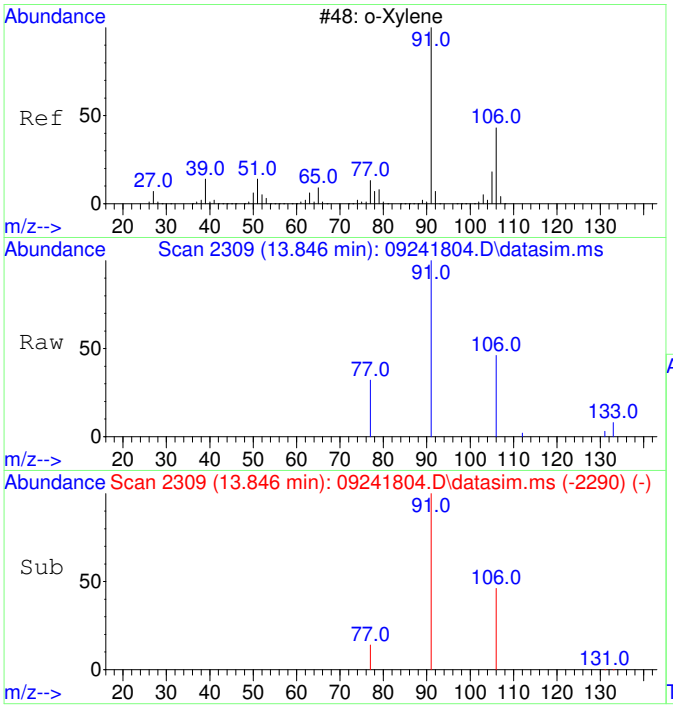


#19
m&p-Xylene
Concen: 349.79 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 9239

Ion	Ratio	Lower	Upper
91	100		
106	49.6	21.2	81.2
77	16.0	0.0	42.9

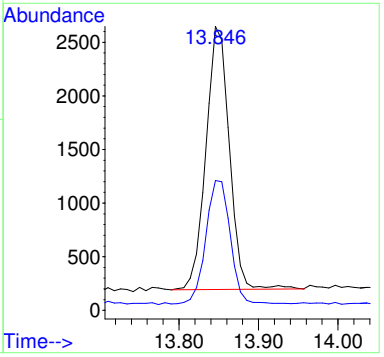


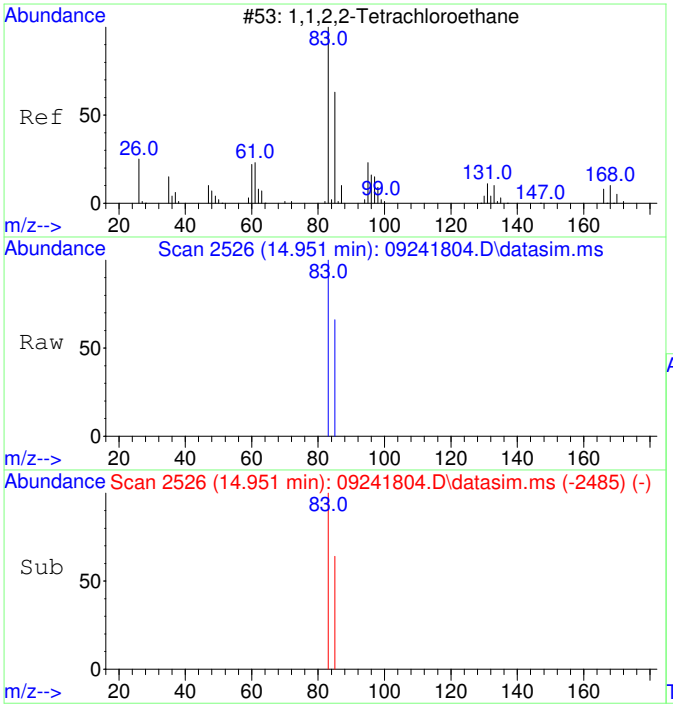


#20
o-Xylene
Concen: 179.24 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 5014

Ion	Ratio	Lower	Upper
91	100		
106	49.4	18.3	78.3

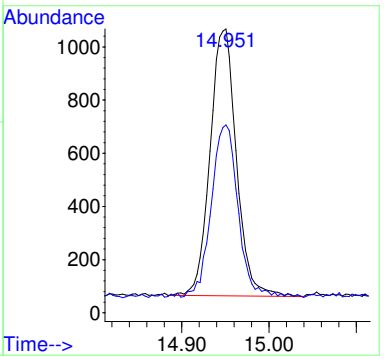


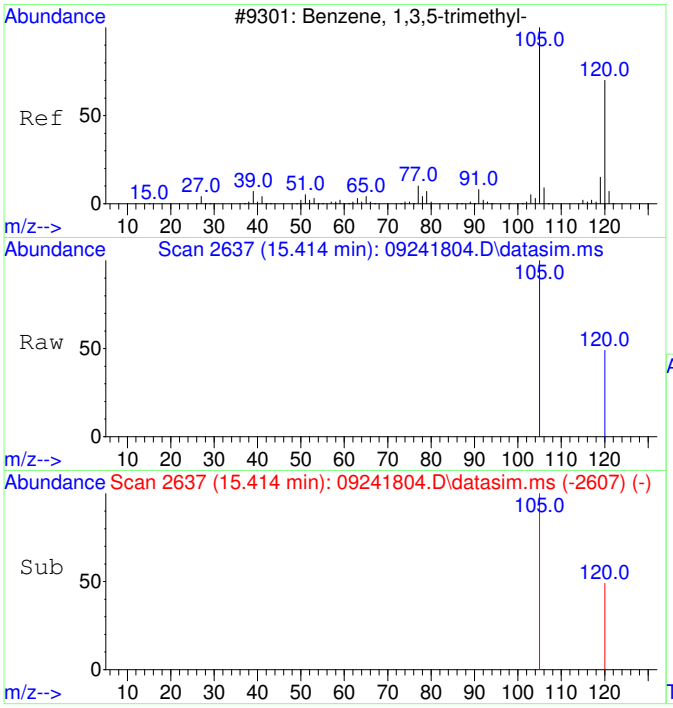


#21
1,1,2,2-Tetrachloroethane
Concen: 174.81 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.004 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 83 Resp: 2106

Ion	Ratio	Lower	Upper
83	100		
85	64.9	34.4	94.4

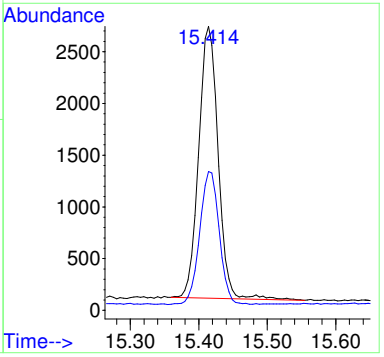


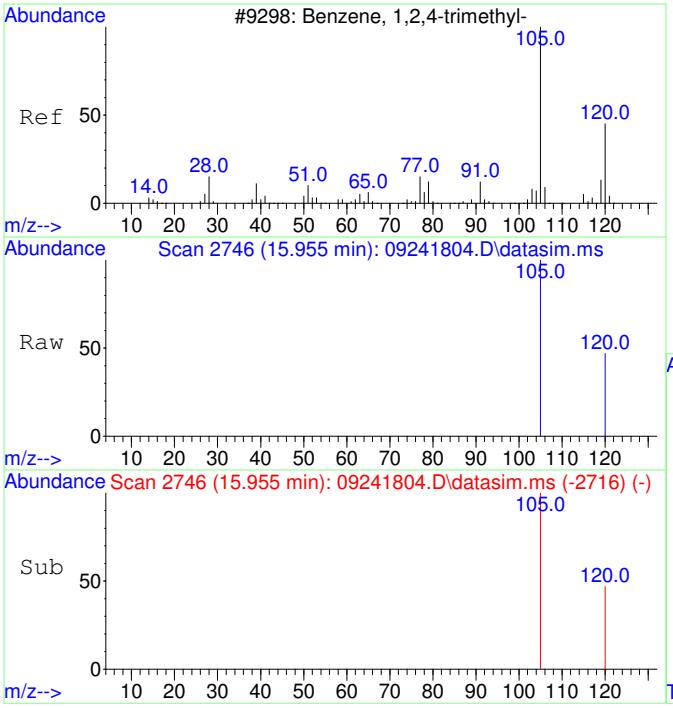


#22
1,3,5-Trimethylbenzene
Concen: 163.44 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:105 Resp: 5173

Ion	Ratio	Lower	Upper
105	100		
120	49.0	19.1	79.1

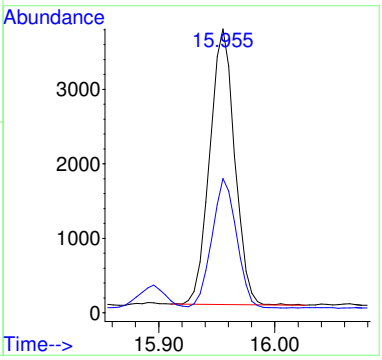


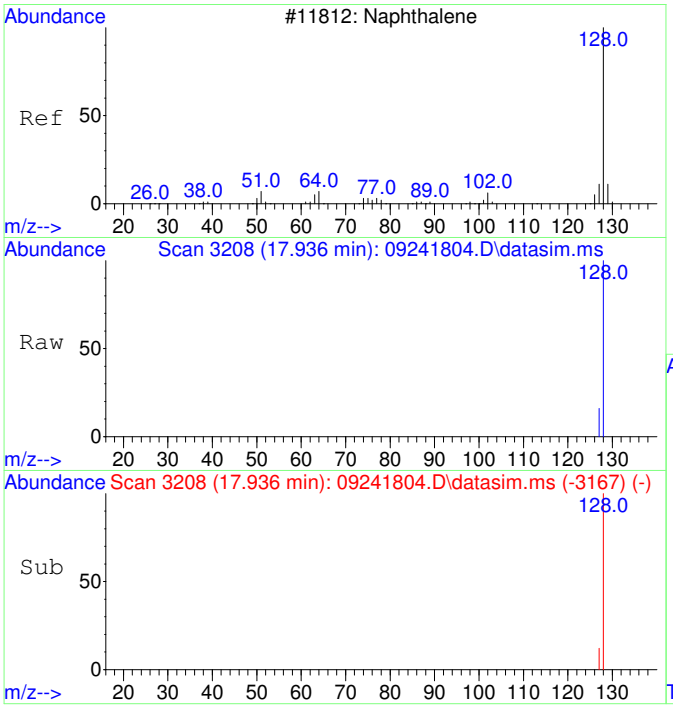


#23
1,2,4-Trimethylbenzene
Concen: 174.67 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:105 Resp: 5530

Ion	Ratio	Lower	Upper
105	100		
120	45.8	15.5	75.5

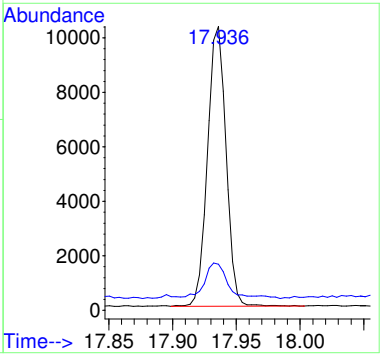


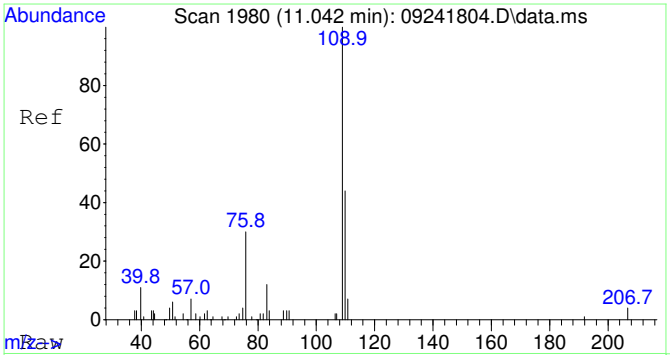


#24
Naphthalene
Concen: 198.80 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:128 Resp: 10329

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	42.5

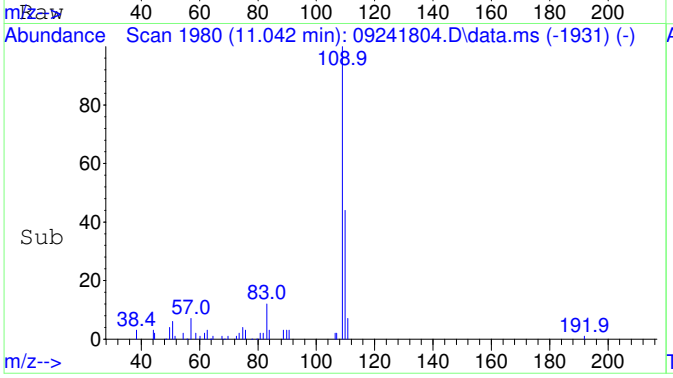


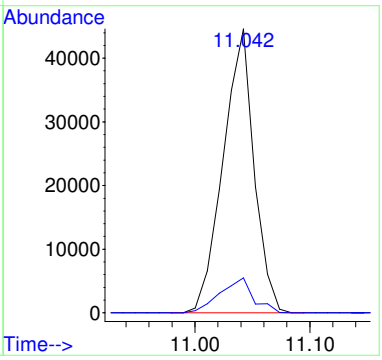


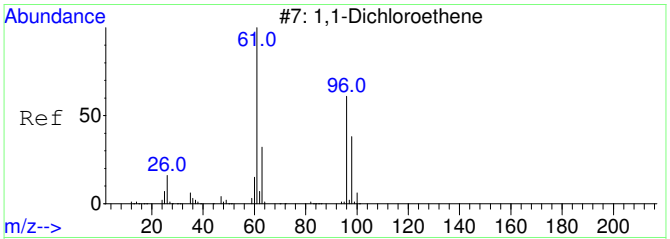
#25
2-Fluorotoluene SCAN
Concen: 5476.34 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.011 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:109 Resp: 83560

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	45.7



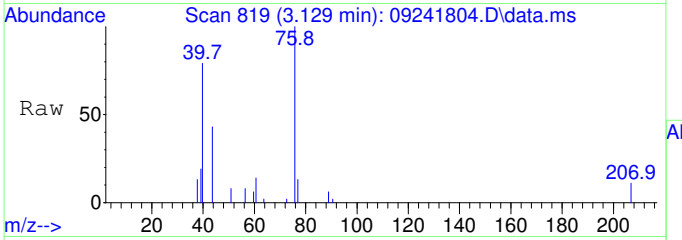


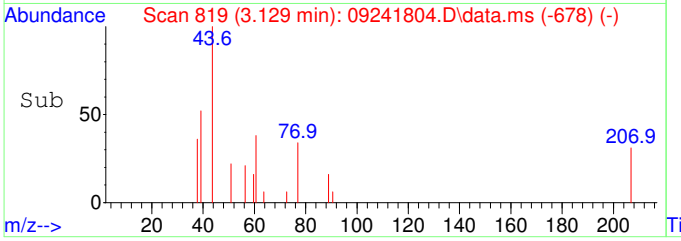


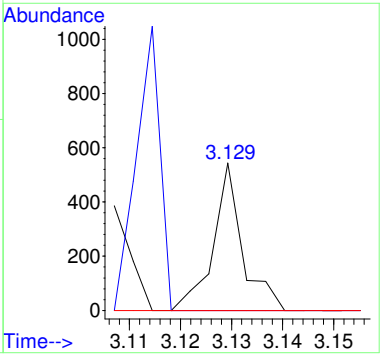
#26
1,1-Dichloroethene SCAN
Concen: 56.73 ug/L
RT: 3.129 min Scan# 819
Delta R.T. 0.022 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

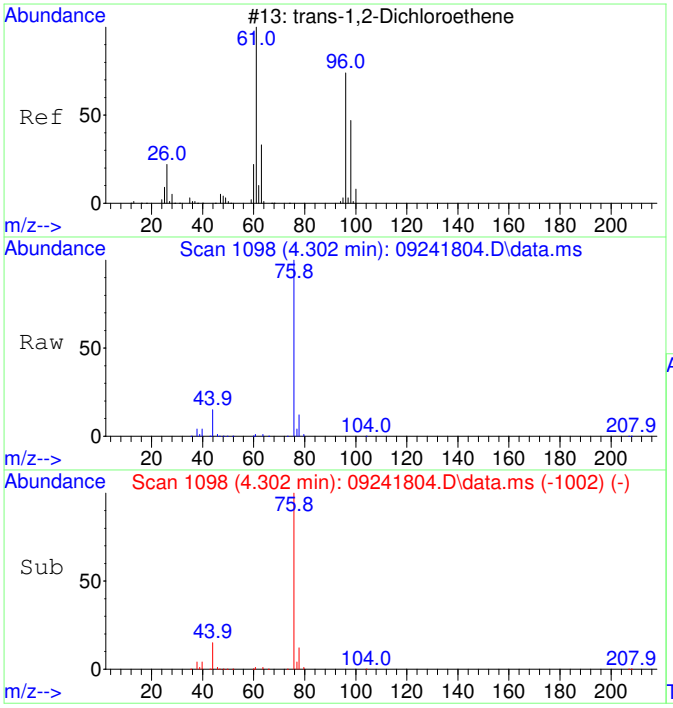
Tgt Ion: 61 Resp: 216

Ion	Ratio	Lower	Upper
61	100		
96	157.4	23.8	83.8#
98	0.0	8.8	68.8#





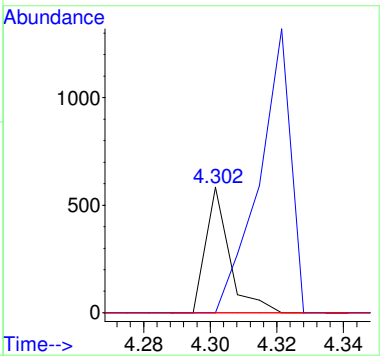


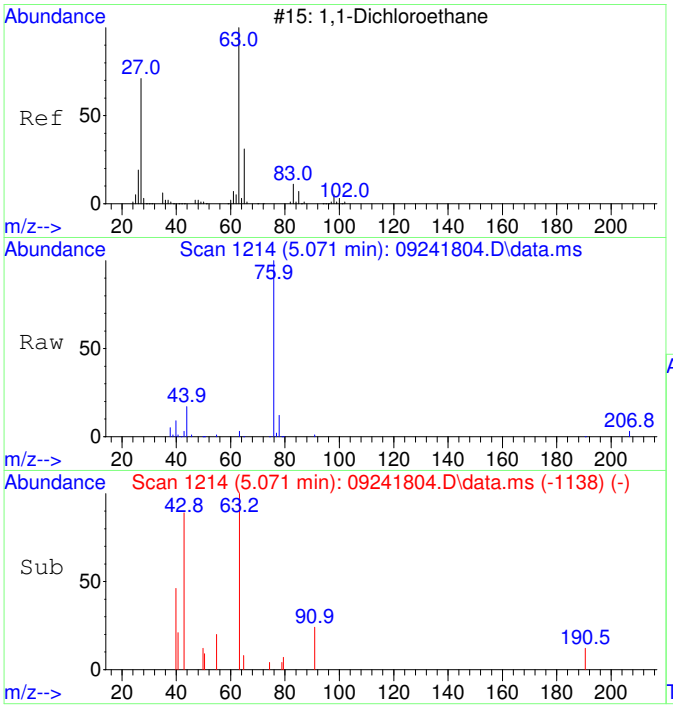


#27
trans-1,2-Dichloroethene SCAN
Concen: 65.20 ug/L
RT: 4.302 min Scan# 1098
Delta R.T. -0.007 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 289

Ion	Ratio	Lower	Upper
61	100		
96	300.7	37.9	97.9#
98	0.0	12.7	72.7#

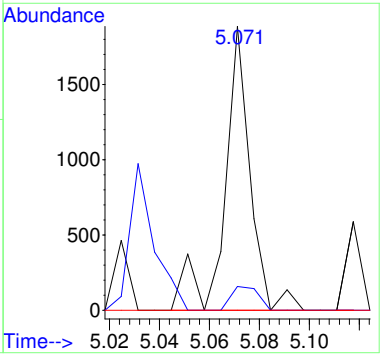


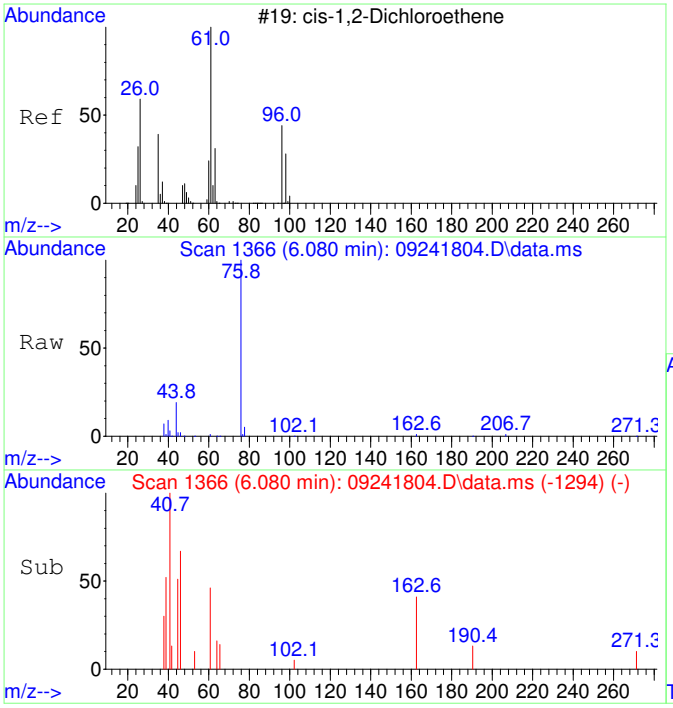


#28
1,1-Dichloroethane SCAN
Concen: 239.40 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 63 Resp: 1350

Ion	Ratio	Lower	Upper
63	100		
65	8.9	7.5	67.5
83	0.0	0.0	34.3

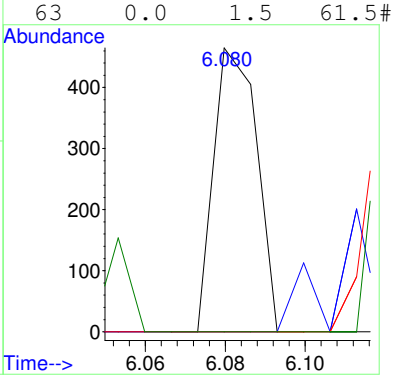


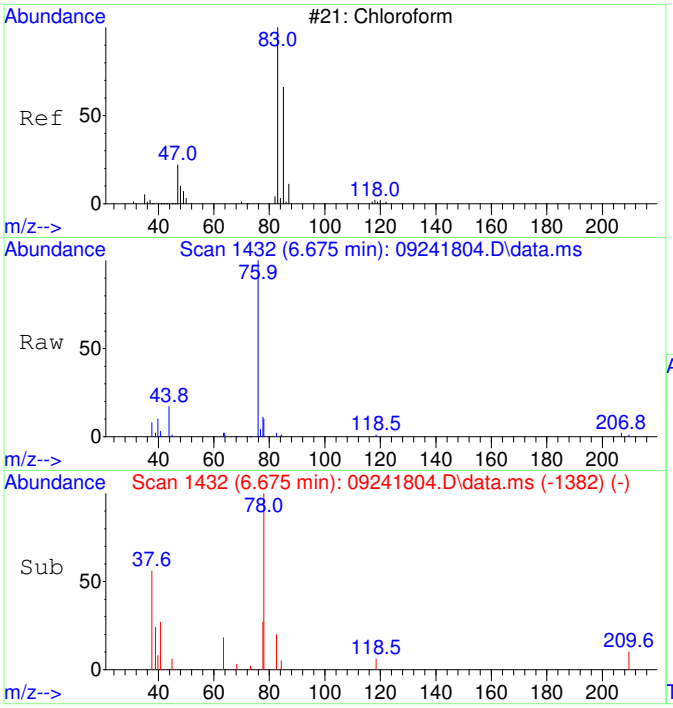


#29
cis-1,2-Dichloroethene SCAN
Concen: 70.95 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. -0.020 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 61 Resp: 346

Ion	Ratio	Lower	Upper
61	100		
96	0.0	28.2	88.2#
98	0.0	14.1	74.1#
63	0.0	1.5	61.5#

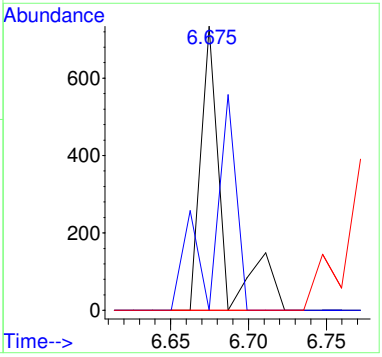


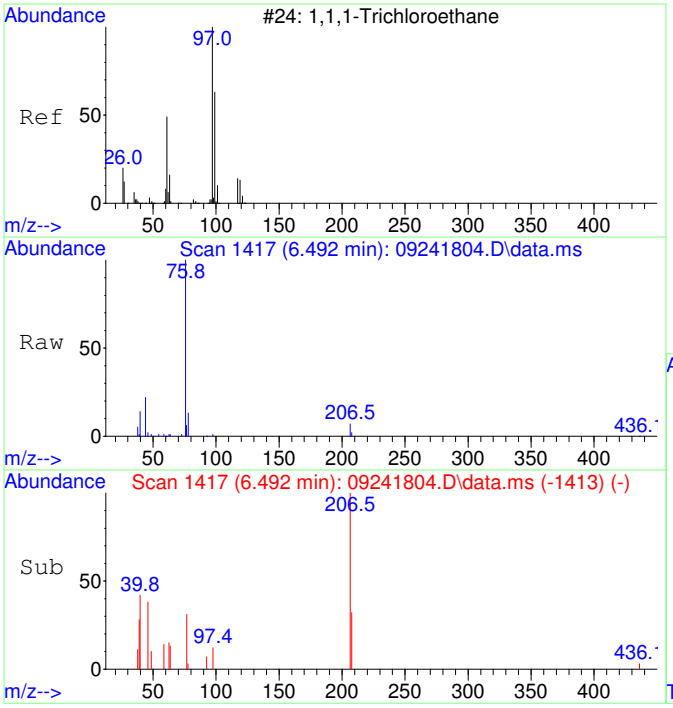


#30
Chloroform SCAN
Concen: 117.94 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.012 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 83 Resp: 706

Ion	Ratio	Lower	Upper
83	100		
85	84.3	32.6	92.6
47	0.0	0.0	57.9

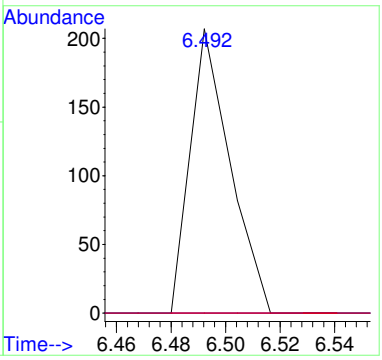


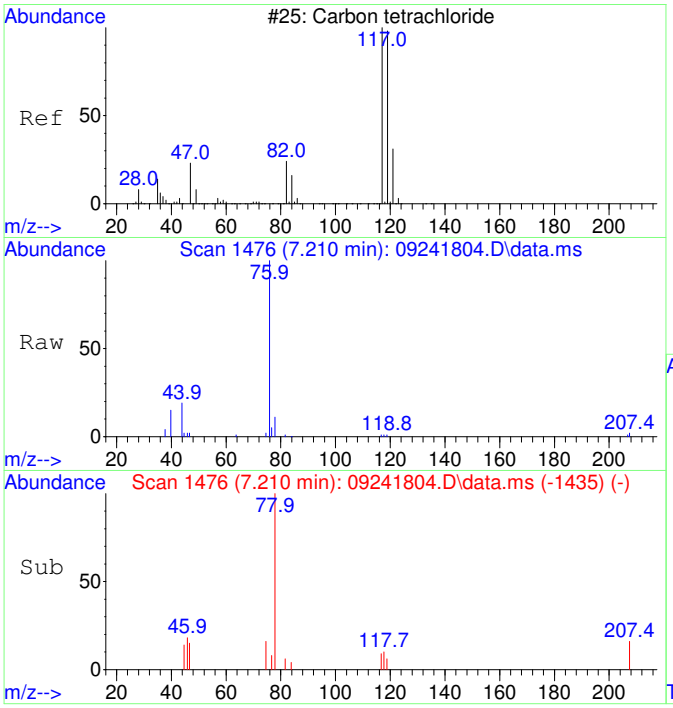


#31
1,1,1-Trichloroethane SCAN
Concen: 39.60 ug/L
RT: 6.492 min Scan# 1417
Delta R.T. -0.450 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 97 Resp: 211

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

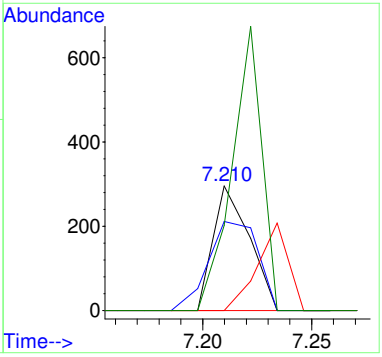


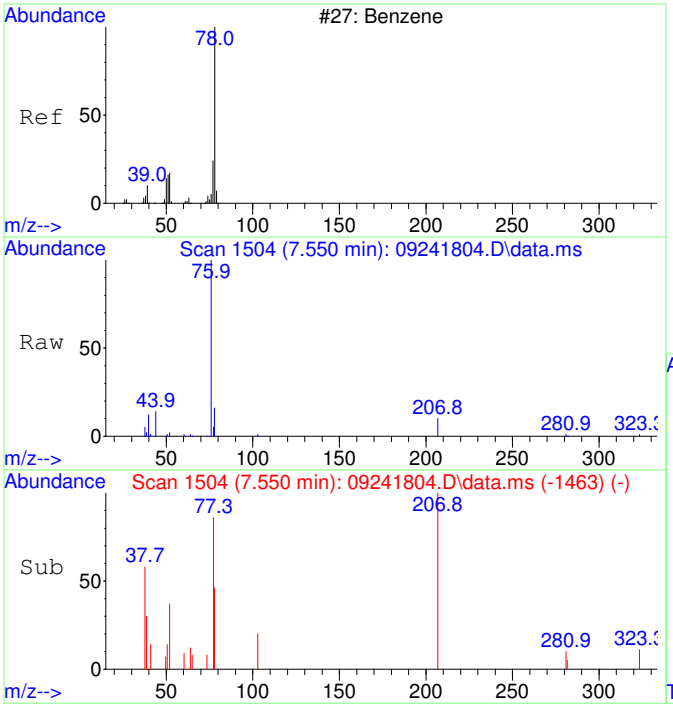


#32
Carbon tetrachloride SCAN
Concen: 64.94 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:117 Resp: 341

Ion	Ratio	Lower	Upper
117	100		
119	98.2	80.2	140.2
121	0.0	3.2	63.2#
82	187.7	7.4	67.4#

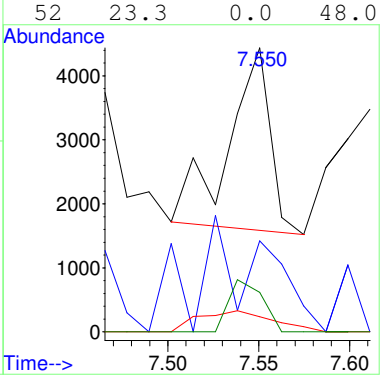


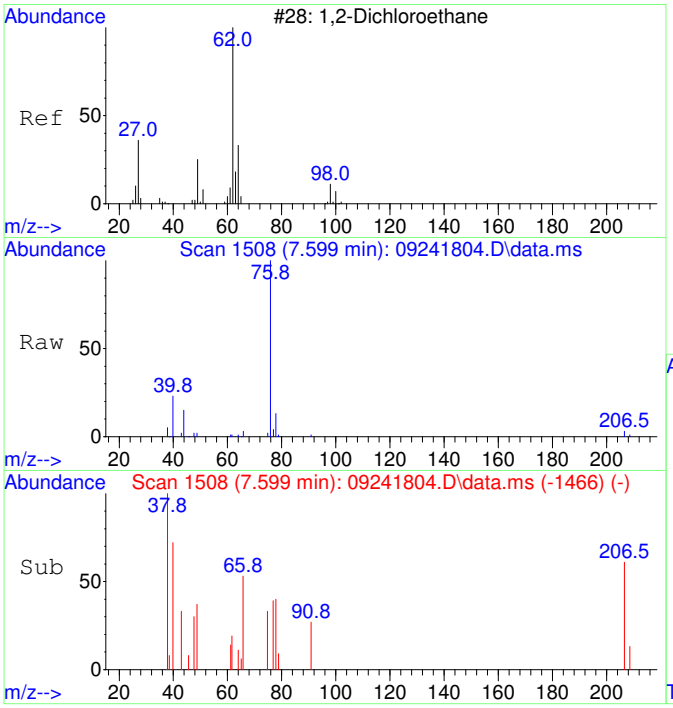


#33
Benzene SCAN
Concen: 282.43 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 78 Resp: 4488

Ion	Ratio	Lower	Upper
78	100		
77	0.0	3.0	63.0#
51	20.9	0.0	56.4
52	23.3	0.0	48.0

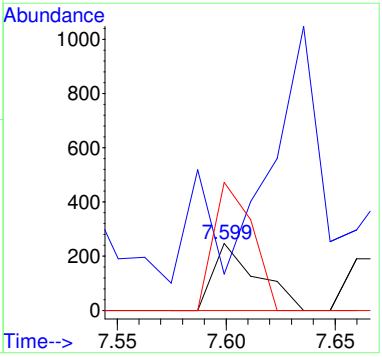


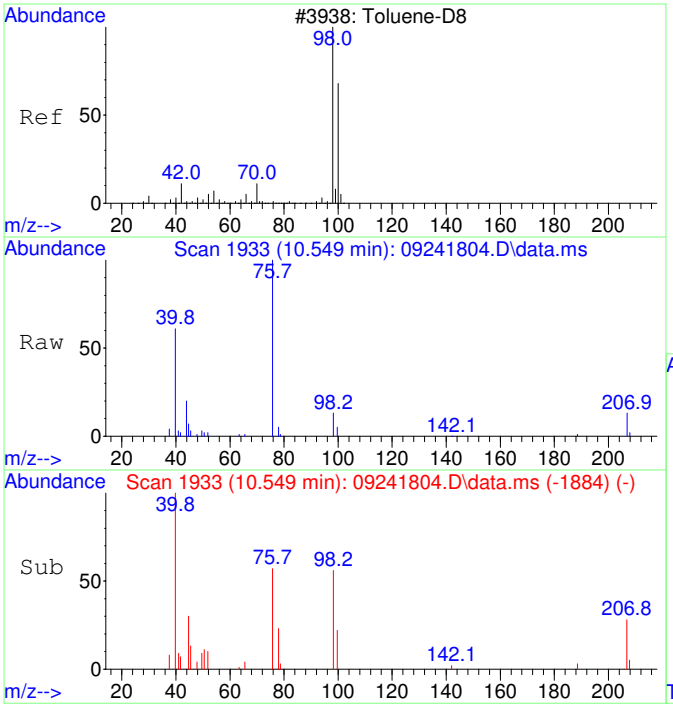


#34
1,2-Dichloroethane SCAN
Concen: 64.58 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 62 Resp: 350

Ion	Ratio	Lower	Upper
62	100		
64	87.1	1.2	61.2#
49	168.3	10.4	70.4#

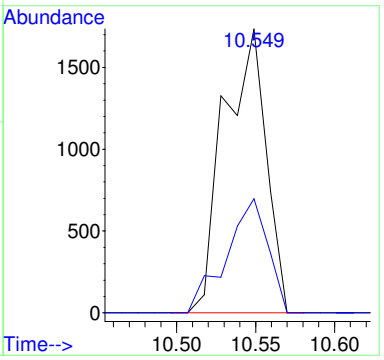


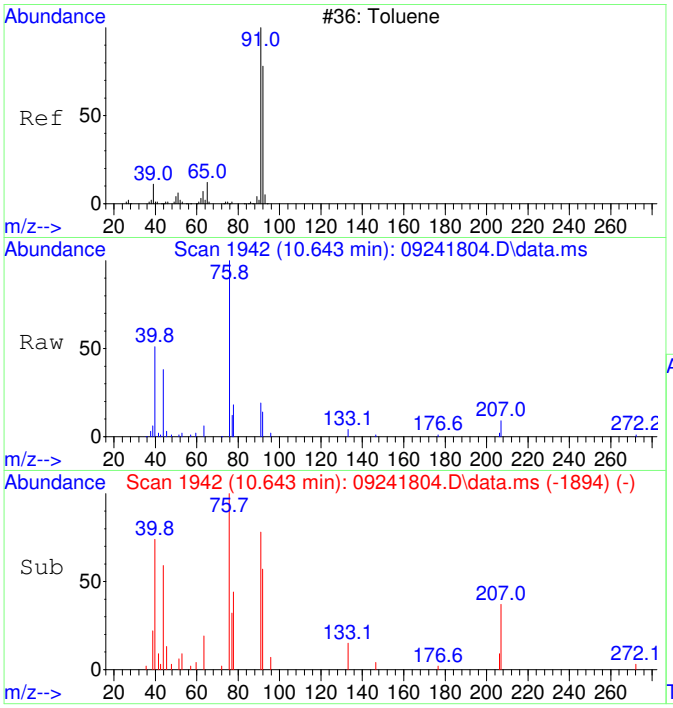


#36
Toluene-d8 SCAN
Concen: 233.73 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 98 Resp: 3224

Ion	Ratio	Lower	Upper
98	100		
100	39.8	39.5	99.5

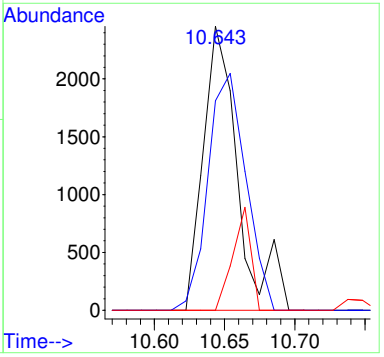


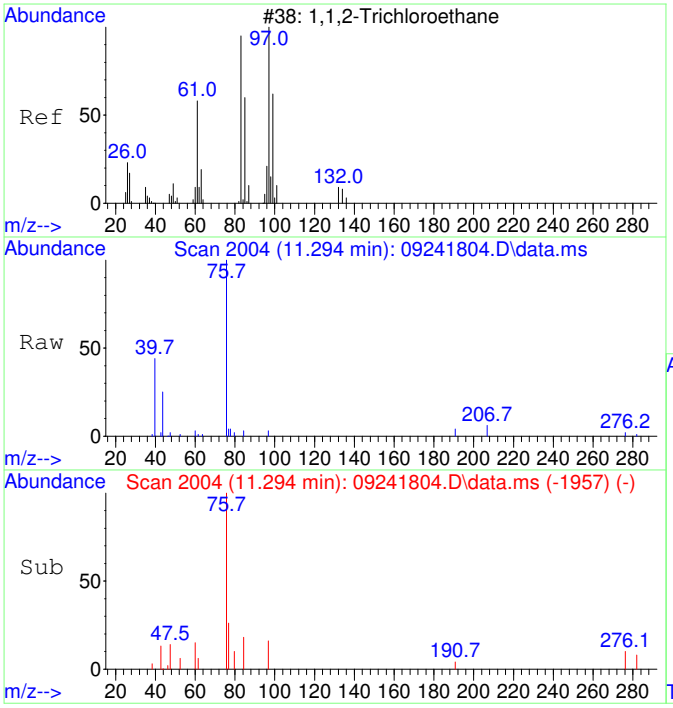


#37
Toluene SCAN
Concen: 239.84 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 4226

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.6	86.6#
65	0.0	0.0	42.3

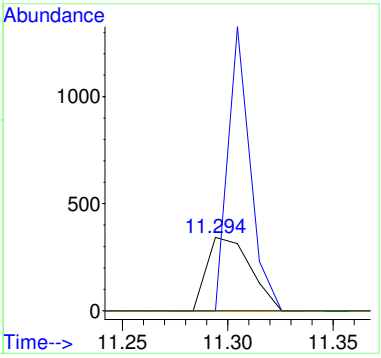


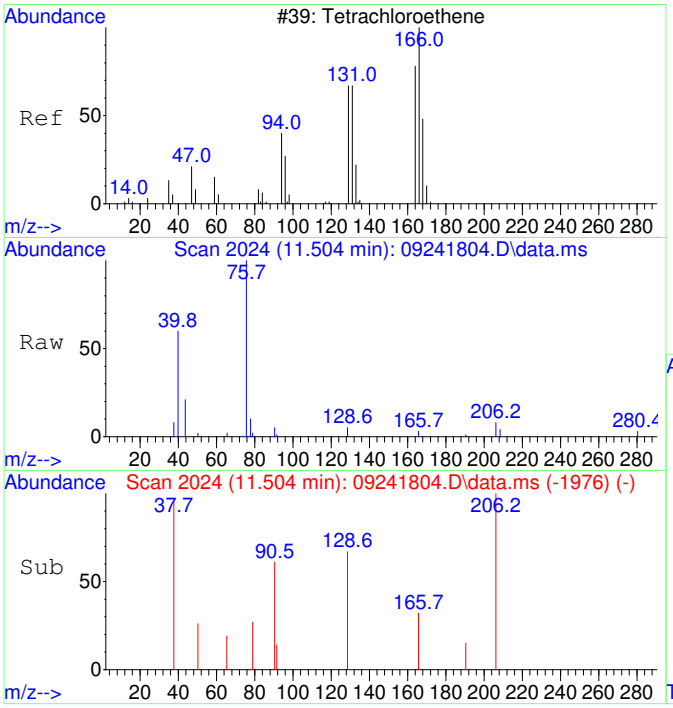


#38
1,1,2-Trichloroethane SCAN
Concen: 146.31 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 97 Resp: 494

Ion	Ratio	Lower	Upper
97	100		
83	198.4	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

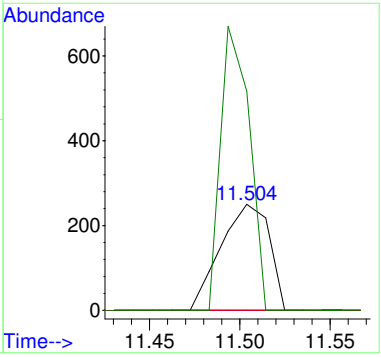


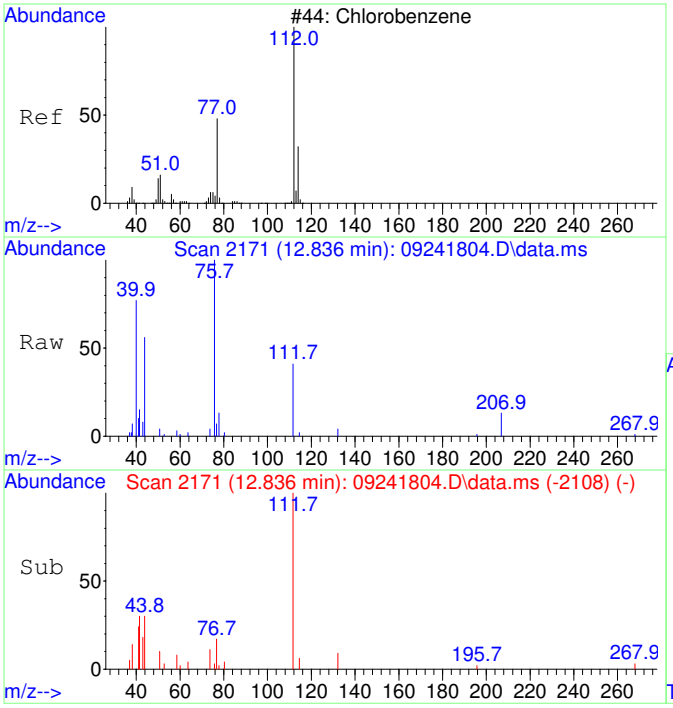


#39
Tetrachloroethene SCAN
Concen: 121.56 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:166 Resp: 470

Ion	Ratio	Lower	Upper
166	100		
164	0.0	43.3	103.3#
131	0.0	35.6	95.6#
129	159.1	36.6	96.6#

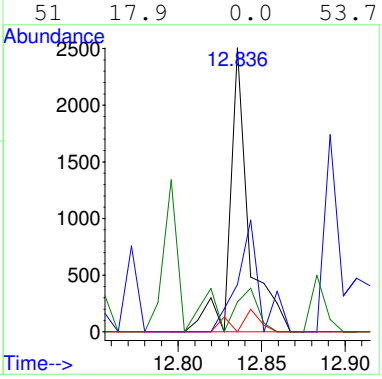


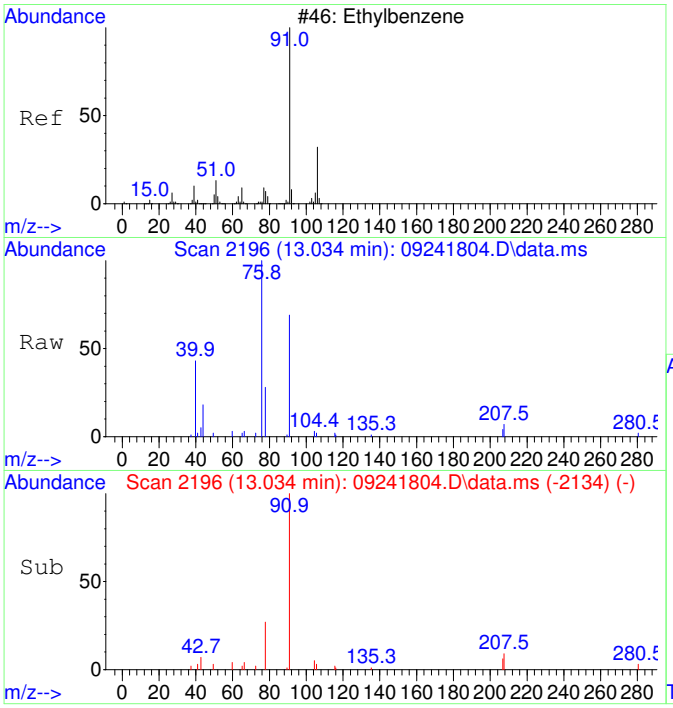


#40
Chlorobenzene SCAN
Concen: 181.69 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:112 Resp: 1942

Ion	Ratio	Lower	Upper
112	100		
77	48.2	28.4	88.4
114	9.6	0.0	59.5
51	17.9	0.0	53.7

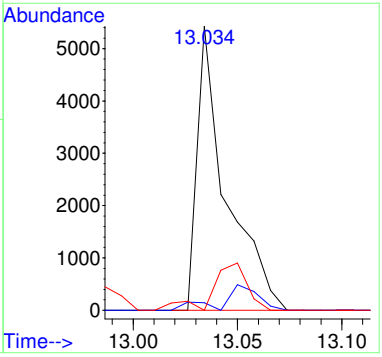


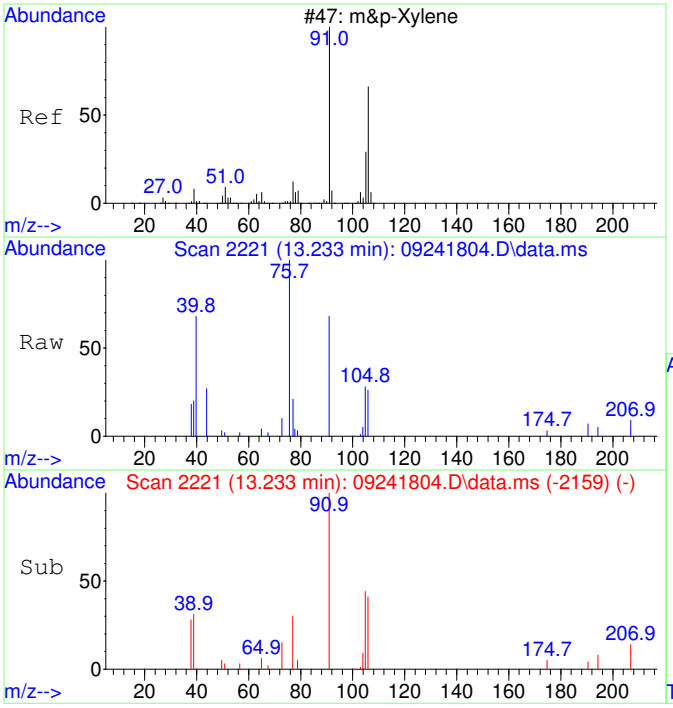


#42
Ethylbenzene SCAN
Concen: 256.68 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.008 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 5257

Ion	Ratio	Lower	Upper
91	100		
106	11.1	3.2	63.2
51	19.9	0.0	40.1

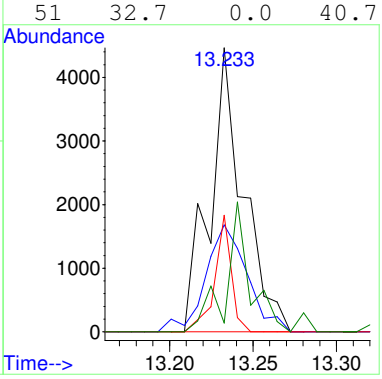


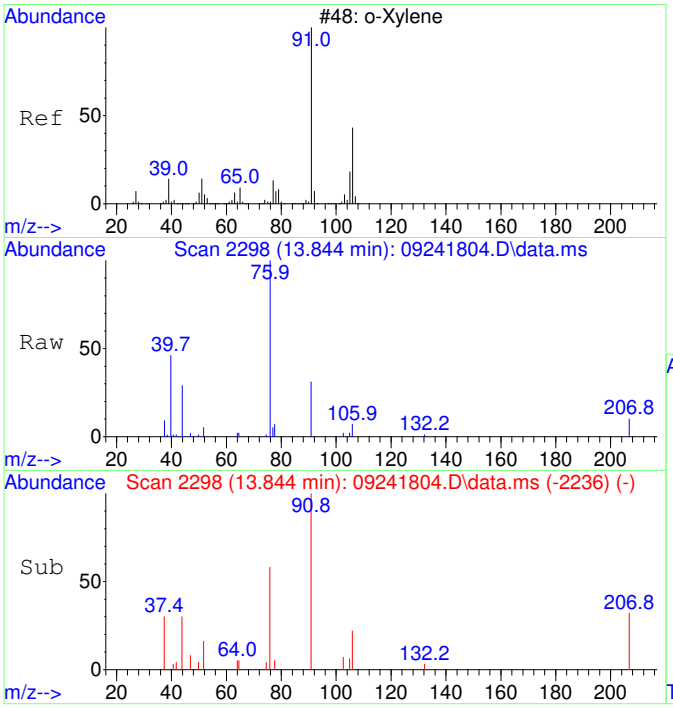


#43
m&p-Xylene SCAN
Concen: 220.23 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.008 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 6261

Ion	Ratio	Lower	Upper
91	100		
106	46.6	20.1	80.1
105	20.1	0.0	51.1
51	32.7	0.0	40.7

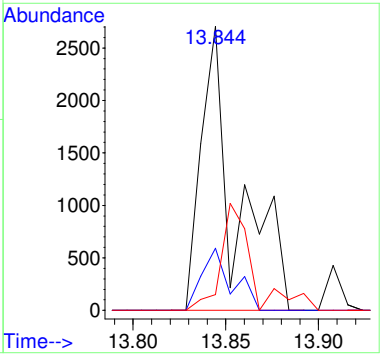


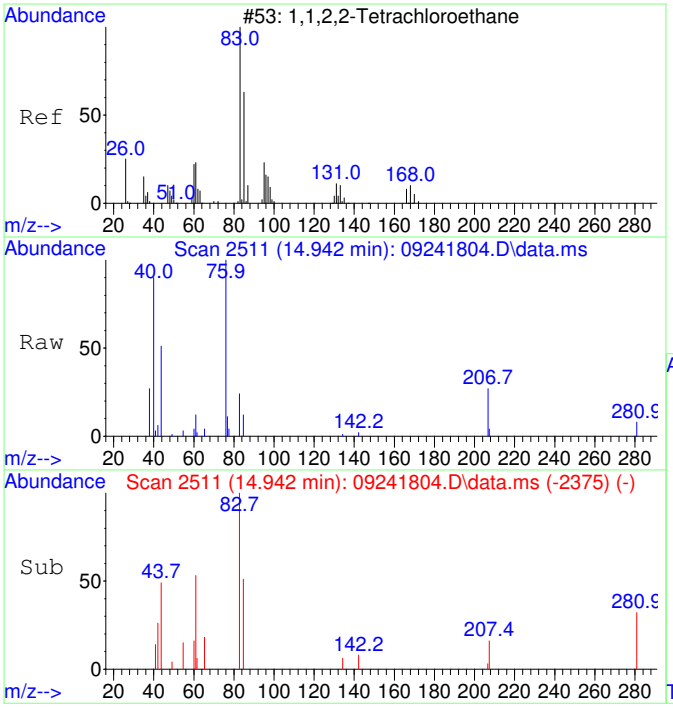


#44
o-Xylene SCAN
Concen: 221.56 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 91 Resp: 3585

Ion	Ratio	Lower	Upper
91	100		
106	18.5	21.3	81.3#
105	33.5	0.0	55.2

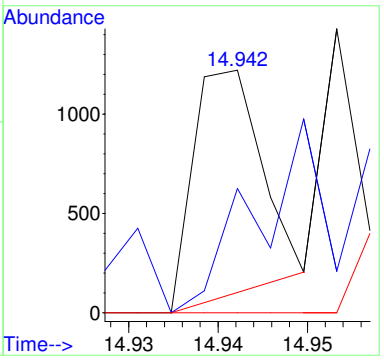


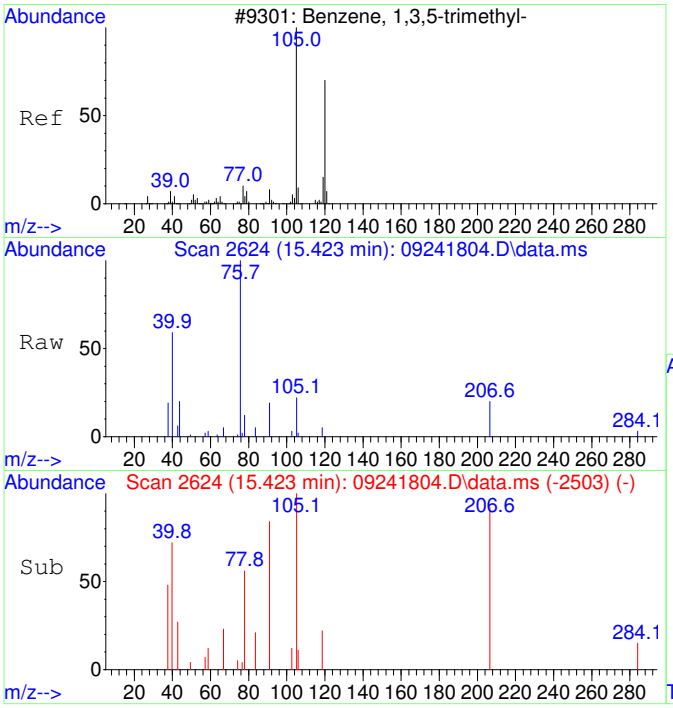


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 80.85 ug/L
RT: 14.942 min Scan# 2511
Delta R.T. 0.004 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion: 83 Resp: 620

Ion	Ratio	Lower	Upper
83	100		
85	30.0	31.6	91.6#
95	0.0	0.0	49.0

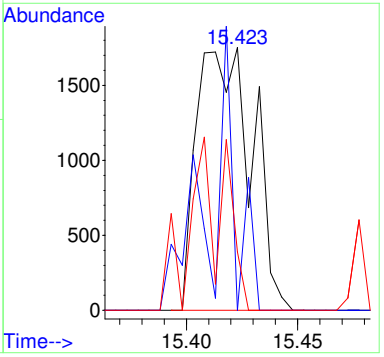


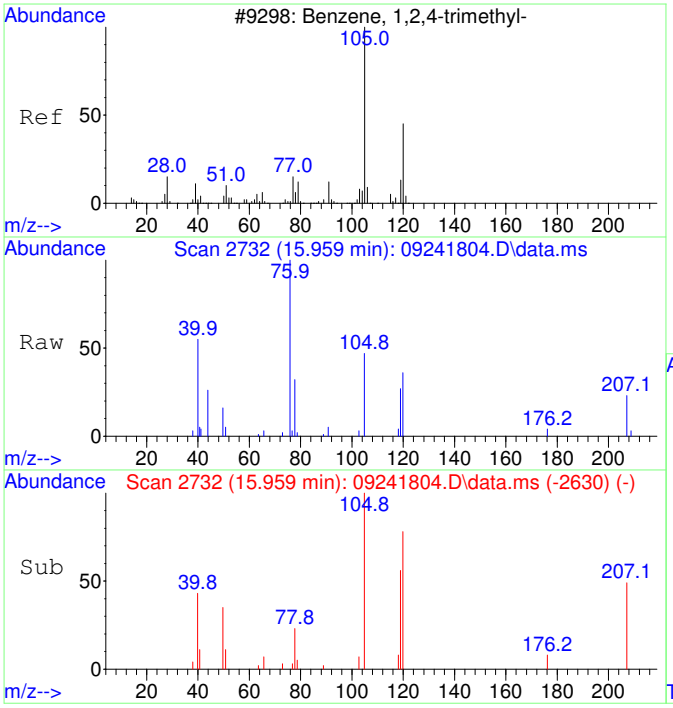


#46
1,3,5-Trimethylbenzene SCAN
Concen: 189.92 ug/L
RT: 15.423 min Scan# 2624
Delta R.T. 0.010 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:105 Resp: 3047

Ion	Ratio	Lower	Upper
105	100		
120	17.7	16.8	76.8
119	0.0	0.0	41.5

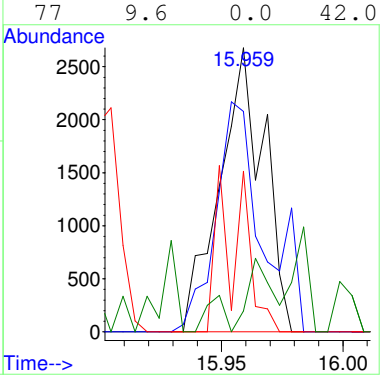


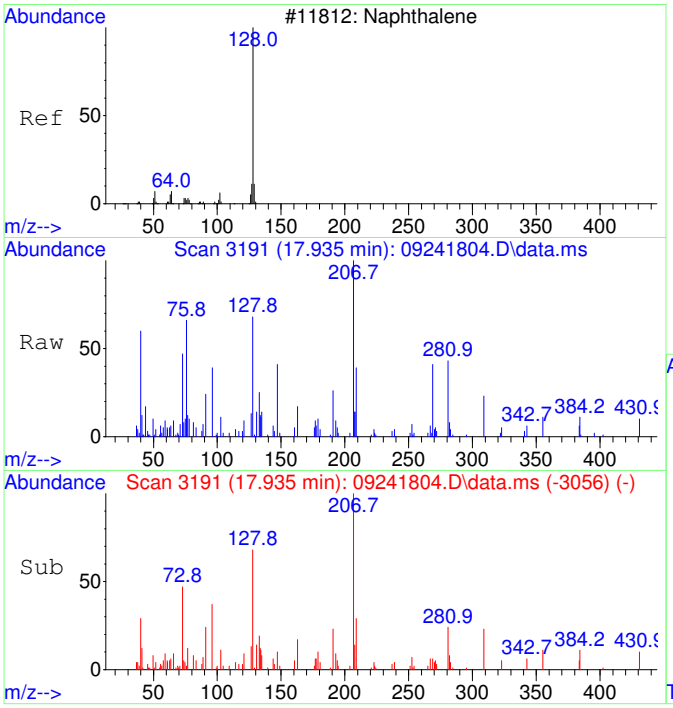


#47
1,2,4-Trimethylbenzene SCAN
Concen: 207.88 ug/L
RT: 15.959 min Scan# 2732
Delta R.T. 0.005 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:105 Resp: 3418

Ion	Ratio	Lower	Upper
105	100		
120	85.5	15.4	75.4#
119	0.0	0.0	41.7
77	9.6	0.0	42.0

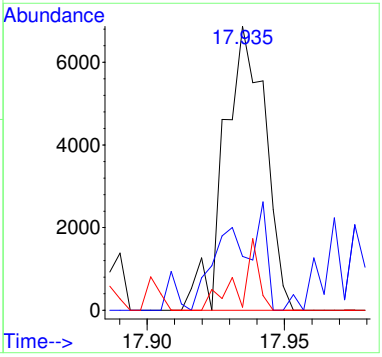




#48
Naphthalene SCAN
Concen: 303.55 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. 0.000 min
Lab File: 09241804.D
Acq: 24 Sep 2018 13:26

Tgt Ion:128 Resp: 7121

Ion	Ratio	Lower	Upper
128	100		
127	33.8	0.0	43.9
129	11.8	0.0	40.5



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory

SDG: 18260B

Client: California Site Cleanup Section 3

Project: MEW OU3 2018 Air and Sewer Gas Investigation

Instrument ID: AG5975CV

Calibration: 1806010

Sequence: S18I078

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S18I078-CRL2	1,1-Dichloroethene	50.0	54.9	110	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	43.6	87	ug/L	60 - 140
	1,1-Dichloroethane	50.0	57.5	115	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	49.4	99	ug/L	60 - 140
	Chloroform	50.0	53.9	108	ug/L	60 - 140
	Trichloroethene	50.0	50.4	101	ug/L	60 - 140
	Tetrachloroethene	50.0	54.5	109	ug/L	60 - 140
	Toluene-d8	50.0	53.4	107	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S18I078-CRL2
Misc Info: 1823103 0.05 mg/L
Date Acquired: 9/24/18 13:50
QLast Update: Thu Jun 28 07:20:56 2018
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	11.033	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.104	50.0	54.91	110%	60	140	pass
3)	trans-1,2-Dichloroethene	4.303	50.0	43.65	87%	60	140	pass
4)	1,1-Dichloroethane	5.066	50.0	57.48	115%	60	140	pass
5)	cis-1,2-Dichloroethene	6.101	50.0	49.40	99%	60	140	pass
6)	Chloroform	6.676	50.0	53.90	108%	60	140	pass
7)	1,1,1-Trichloroethane	6.931	50.0	52.72	105%	60	140	pass
8)	Carbon tetrachloride	7.211	50.0	50.91	102%	60	140	pass
10)	1,2-Dichloroethane	7.588	50.0	48.56	97%	60	140	pass
11)	Trichloroethene	8.618	50.0	50.45	101%	60	140	pass
12)	Toluene-d8	10.540	50.0	53.36	107%	60	140	pass
13)	Toluene	10.645	50.0	61.70	123%	60	140	pass
14)	1,1,2-Trichloroethane	11.295	50.0	55.69	111%	60	140	pass
15)	Tetrachloroethene	11.495	50.0	54.47	109%	60	140	pass
16)	Chlorobenzene	12.837	50.0	54.96	110%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.980	50.0	54.97	110%	60	140	pass
18)	Ethylbenzene	13.035	50.0	55.31	111%	60	140	pass
19)	m&p-Xylene	13.234	100.0	109.37	109%	60	140	pass
20)	o-Xylene	13.846	50.0	54.06	108%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.947	50.0	57.81	116%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.414	50.0	53.55	107%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.955	50.0	55.09	110%	60	140	pass
24)	Naphthalene	17.932	50.0	57.66	115%	60	140	pass

Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 13:50
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

M.I. Performed By:
RH at 3:02 pm, Sep 26, 2018

M.I. Approved By:
Kathy O'Brien at 10:40 am, Se

Quant Time: Sep 24 16:29:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

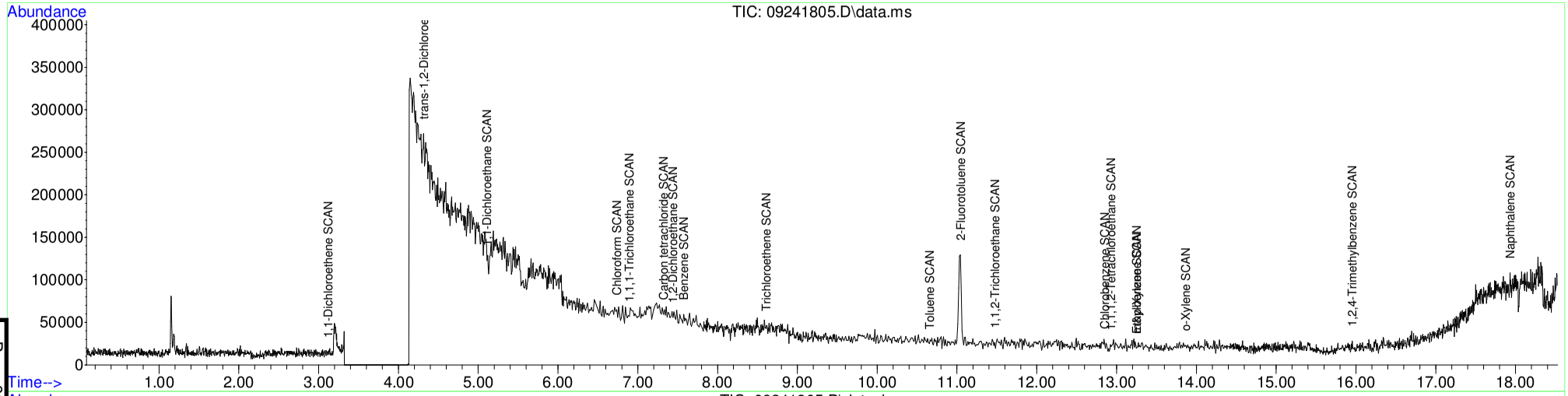
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	160370	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	1390	53.36	ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.07%#		
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.105	61	369m	54.91	ug/L	
3] trans-1,2-Dichloroethene	4.309	61	313	43.65	ug/L	98
4] 1,1-Dichloroethane	5.072	63	513	57.48	ug/L	71
5] cis-1,2-Dichloroethene	6.101	61	435	49.40	ug/L	82
6] Chloroform	6.676	83	511	53.90	ug/L	90
7] 1,1,1-Trichloroethane	6.931	97	492	52.72	ug/L #	26
8] Carbon tetrachloride	7.211	117	450	50.91	ug/L	71
9] Benzene	7.552	78	2109	81.91	ug/L	85
10] 1,2-Dichloroethane	7.588	62	403	48.56	ug/L	78
11] Trichloroethene	8.624	130	357	50.45	ug/L #	81
13] Toluene	10.645	91	2155	61.70	ug/L	95
14] 1,1,2-Trichloroethane	11.295	97	402	55.69	ug/L	85
15] Tetrachloroethene	11.495	166	536	54.47	ug/L	98
16] Chlorobenzene	12.837	112	1370	54.96	ug/L	86
17] 1,1,1,2-Tetrachloroethane	12.980	131	465	54.97	ug/L #	50
18] Ethylbenzene	13.043	91	2318	55.31	ug/L	92
19] m&p-Xylene	13.234	91	3538	109.37	ug/L	94
20] o-Xylene	13.846	91	1852	54.06	ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.951	83	853	57.81	ug/L	99
22] 1,3,5-Trimethylbenzene	15.414	105	2076	53.55	ug/L	99
23] 1,2,4-Trimethylbenzene	15.955	105	2136	55.09	ug/L	99
24] Naphthalene	17.936	128	3669	57.66	ug/L	94
25) 2-Fluorotoluene SCAN	11.042	109	89200	4773.27	ug/L	99
26) 1,1-Dichloroethene SCAN	3.114	61	202	43.32	ug/L #	44
27) trans-1,2-Dichloroethe...	4.315	61	131	24.13	ug/L #	23
28) 1,1-Dichloroethane SCAN	5.111	63	529	76.60	ug/L #	43
30) Chloroform SCAN	6.735	83	270	36.83	ug/L #	28
31) 1,1,1-Trichloroethane ...	6.894	97	208	31.87	ug/L #	26
32) Carbon tetrachloride SCAN	7.319	117	261	40.59	ug/L #	13
33) Benzene SCAN	7.575	78	6419	329.82	ug/L #	45
34) 1,2-Dichloroethane SCAN	7.441	62	276	41.58	ug/L #	1
35) Trichloroethene SCAN	8.612	130	229	48.08	ug/L #	24
37) Toluene SCAN	10.654	91	2115	98.01	ug/L #	92
38) 1,1,2-Trichloroethane ...	11.472	97	118	28.54	ug/L #	10
40) Chlorobenzene SCAN	12.851	112	1056	80.67	ug/L #	42
41) 1,1,1,2-Tetrachloroeth...	12.923	131	246	52.65	ug/L #	13
42) Ethylbenzene SCAN	13.249	91	2086	83.16	ug/L	53
43) m&p-Xylene SCAN	13.249	91	2086	59.91	ug/L	86
44) o-Xylene SCAN	13.860	91	1575	79.48	ug/L #	45
47) 1,2,4-Trimethylbenzene...	15.954	105	952	47.28	ug/L #	35
48) Naphthalene SCAN	17.931	128	3215	111.90	ug/L #	67

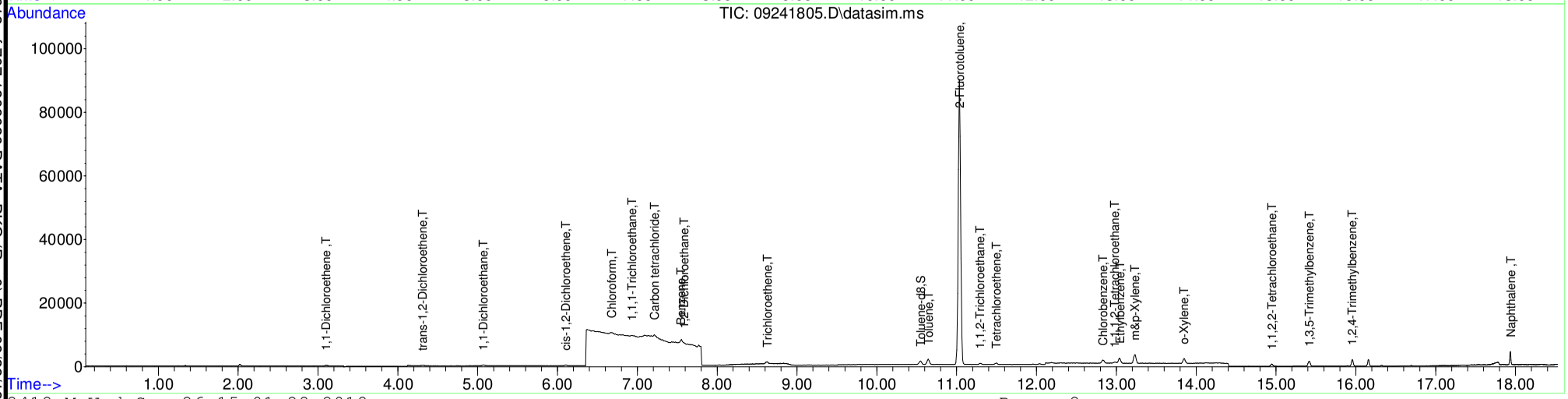
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 13:50
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 16:29:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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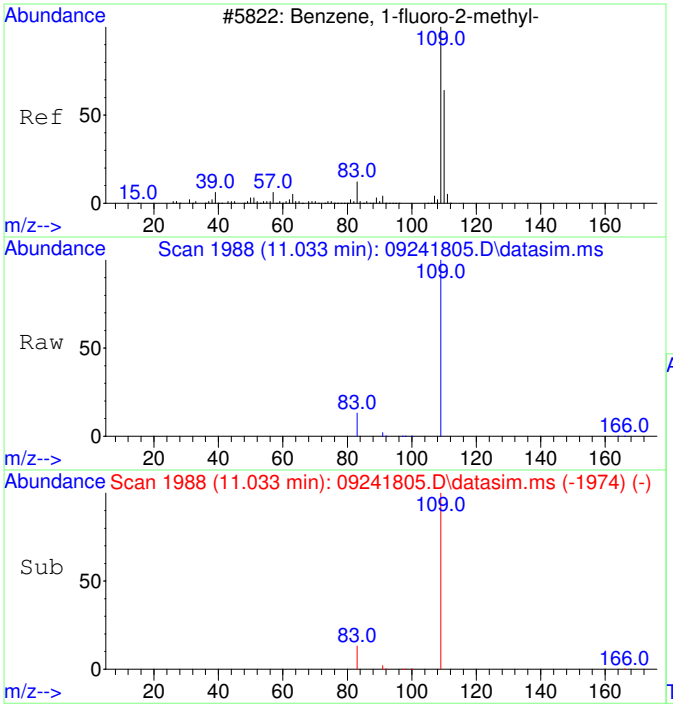
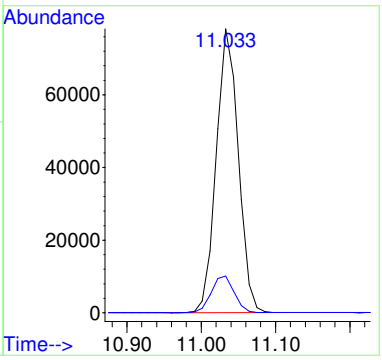
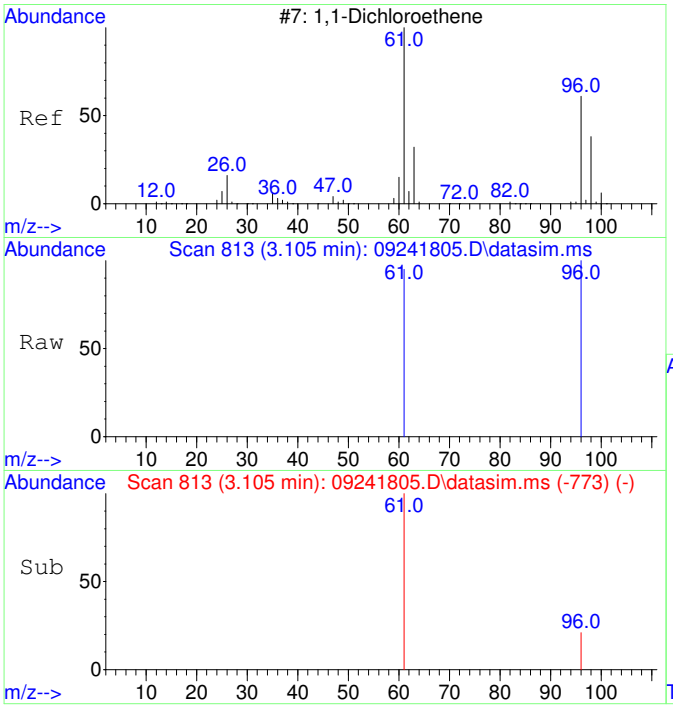


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:109 Resp: 160370

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	44.7

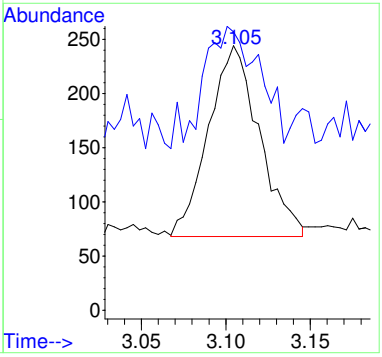


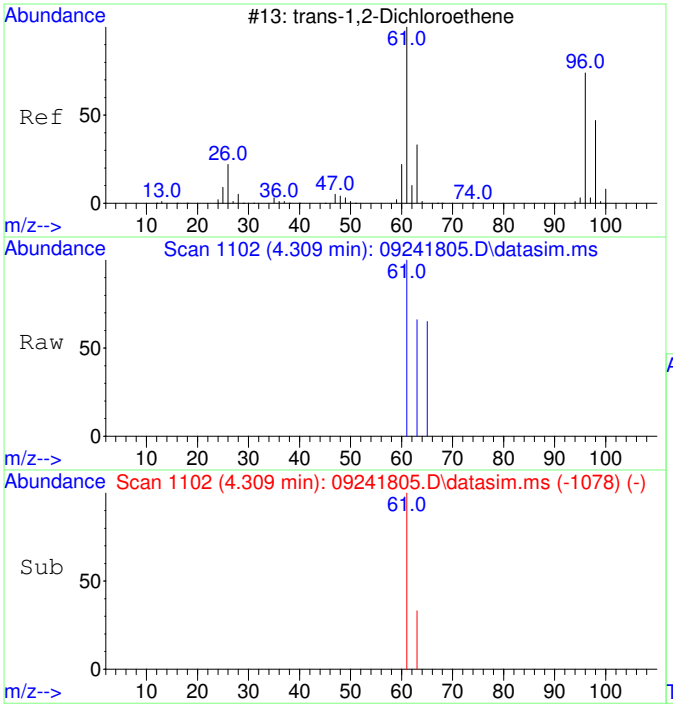


#2
1,1-Dichloroethene
Concen: 54.91 ug/L m
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 369

Ion	Ratio	Lower	Upper
61	100		
96	62.3	28.7	88.7

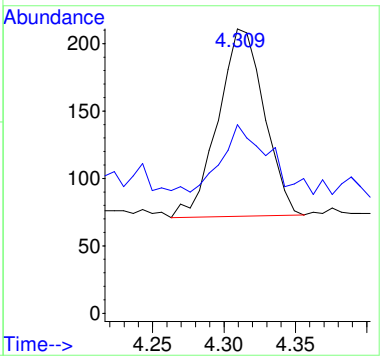


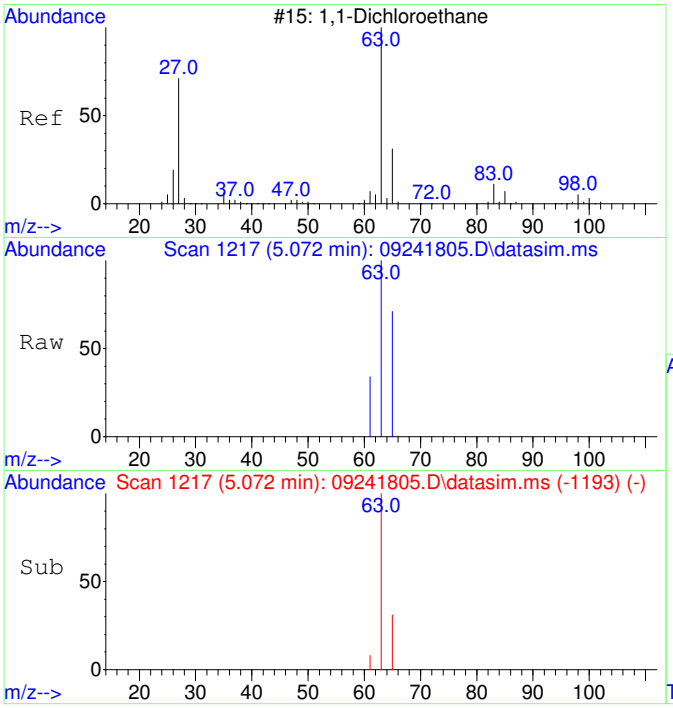


#3
trans-1,2-Dichloroethene
Concen: 43.65 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 313

Ion	Ratio	Lower	Upper
61	100		
63	33.2	2.0	62.0

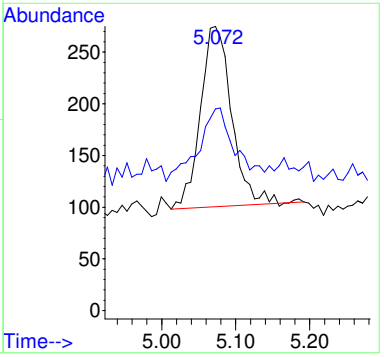


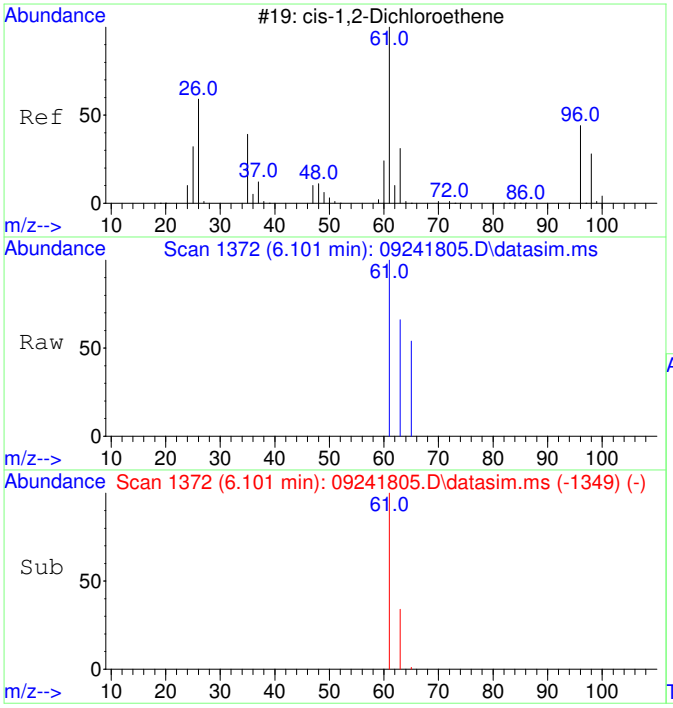


#4
1,1-Dichloroethane
Concen: 57.48 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 63 Resp: 513

Ion	Ratio	Lower	Upper
63	100		
65	47.4	1.5	61.5

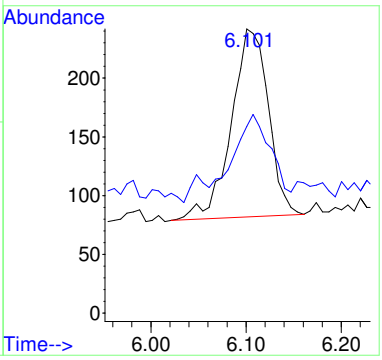


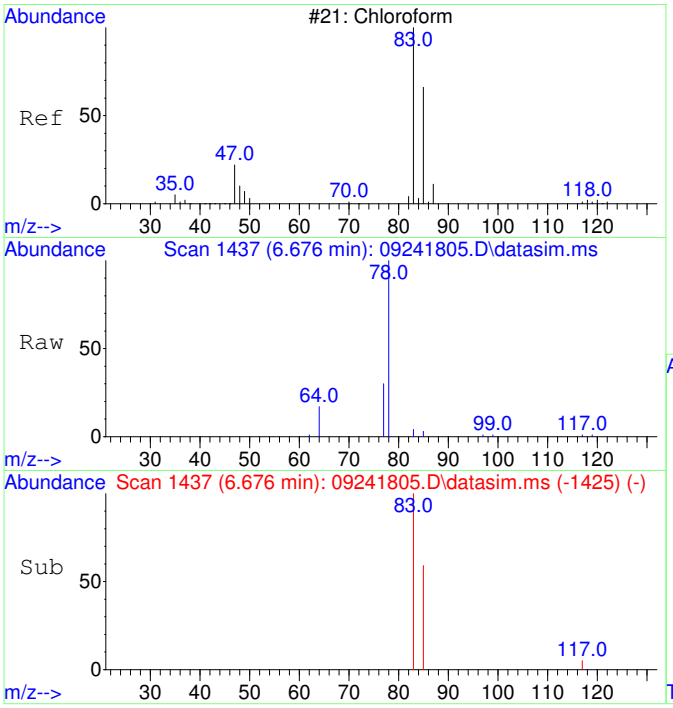


#5
cis-1,2-Dichloroethene
Concen: 49.40 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 435

Ion	Ratio	Lower	Upper
61	100		
63	42.3	2.2	62.2

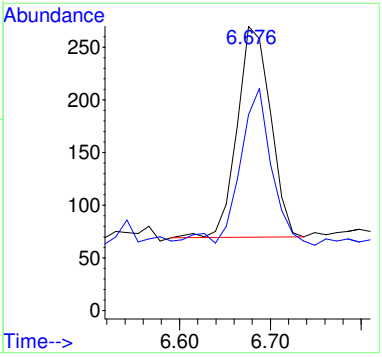


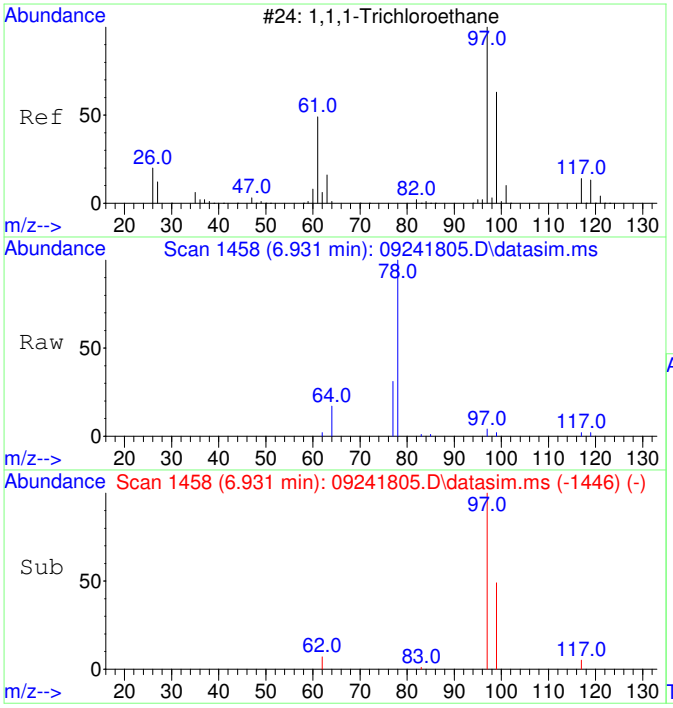


#6
Chloroform
Concen: 53.90 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 511

Ion	Ratio	Lower	Upper
83	100		
85	72.4	34.8	94.8

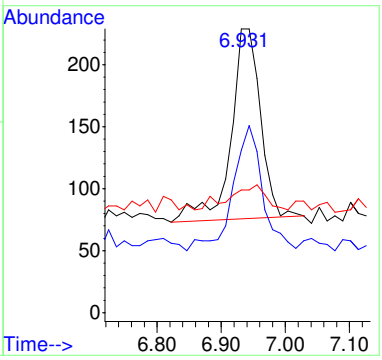


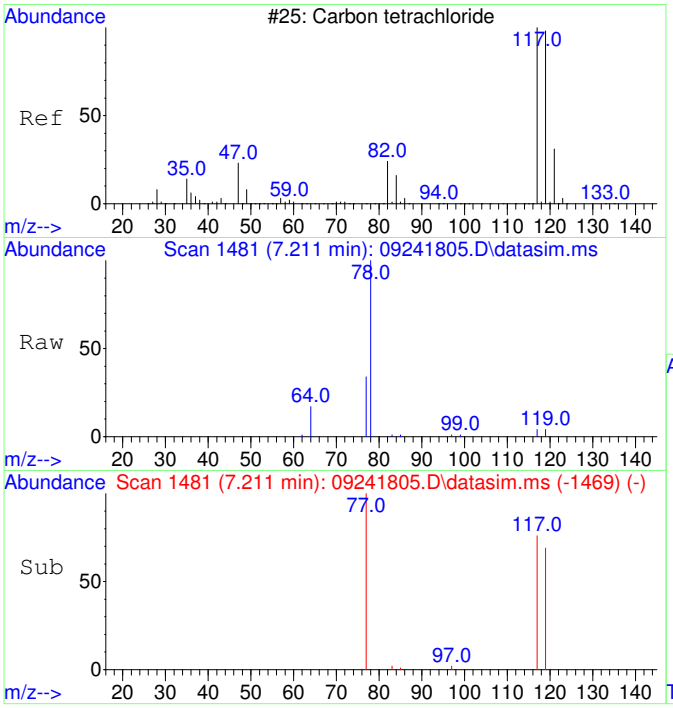


#7
1,1,1-Trichloroethane
Concen: 52.72 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 492

Ion	Ratio	Lower	Upper
97	100		
99	0.0	34.6	94.6#
117	0.0	0.0	42.9

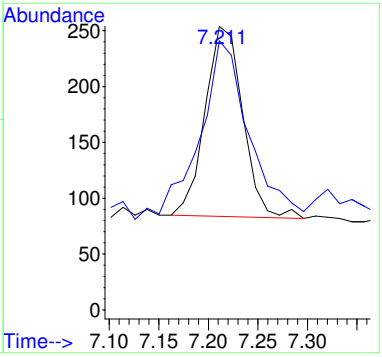


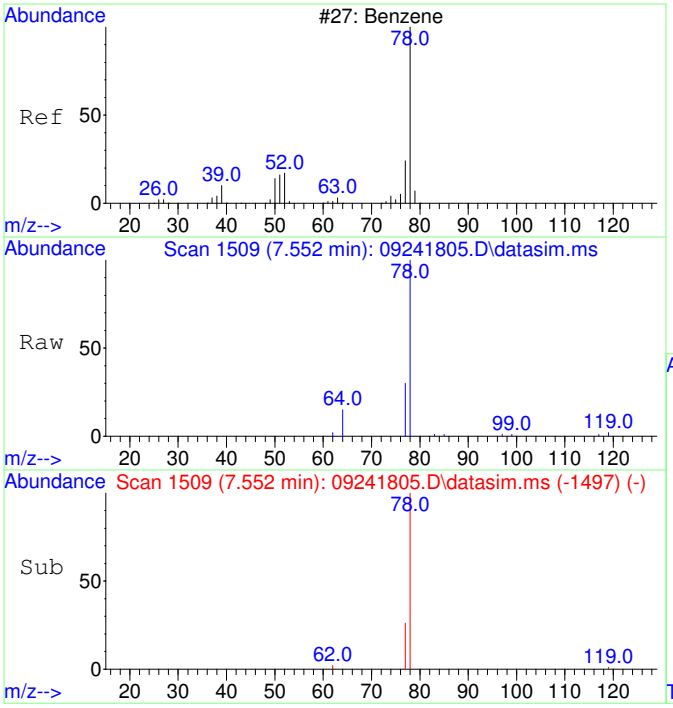


#8
Carbon tetrachloride
Concen: 50.91 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:117 Resp: 450

Ion	Ratio	Lower	Upper
117	100		
119	124.4	65.9	125.9

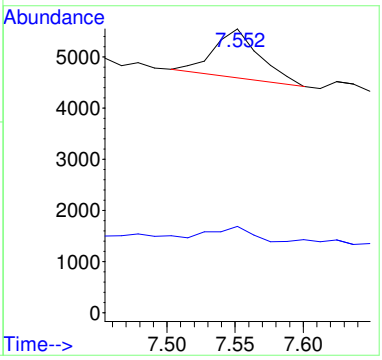


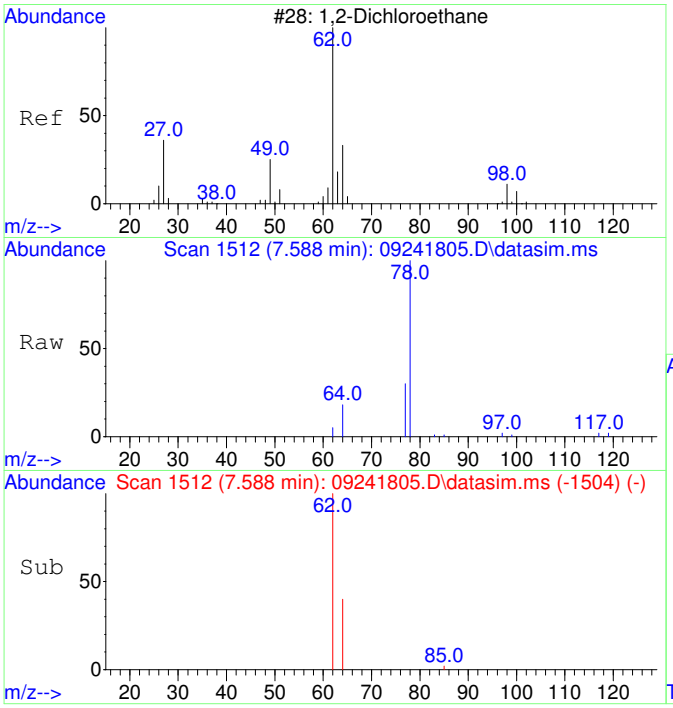


#9
Benzene
Concen: 81.91 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 78 Resp: 2109

Ion	Ratio	Lower	Upper
78	100		
77	30.3	0.0	53.0

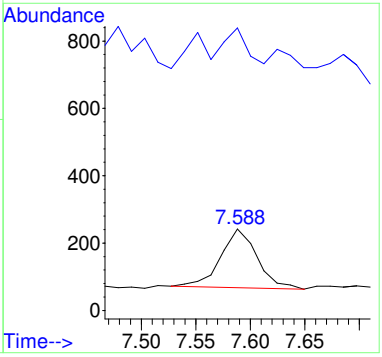


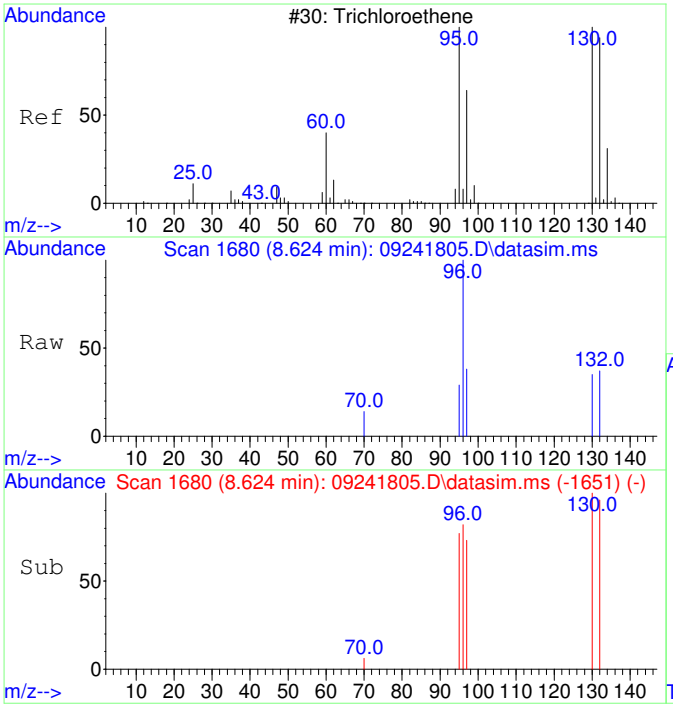


#10
1,2-Dichloroethane
Concen: 48.56 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 62 Resp: 403

Ion	Ratio	Lower	Upper
62	100		
64	44.7	2.3	62.3

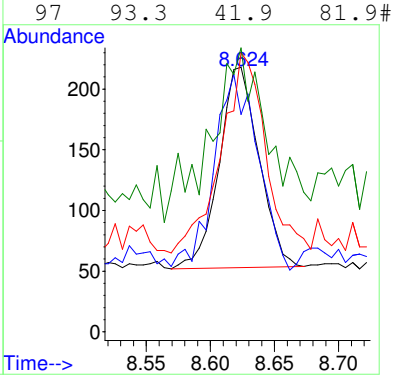


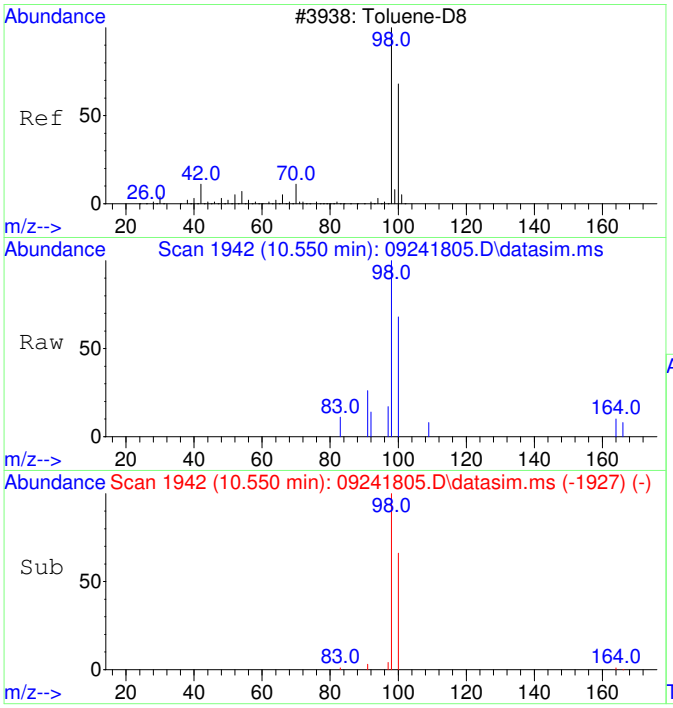


#11
Trichloroethene
Concen: 50.45 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:130 Resp: 357

Ion	Ratio	Lower	Upper
130	100		
95	107.8	66.0	126.0
132	111.5	78.8	118.8
97	93.3	41.9	81.9#

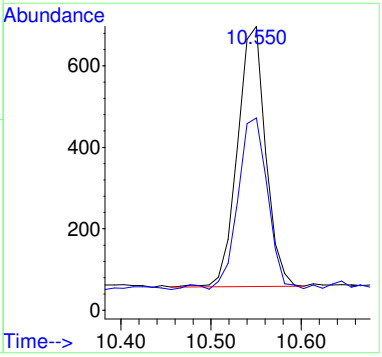


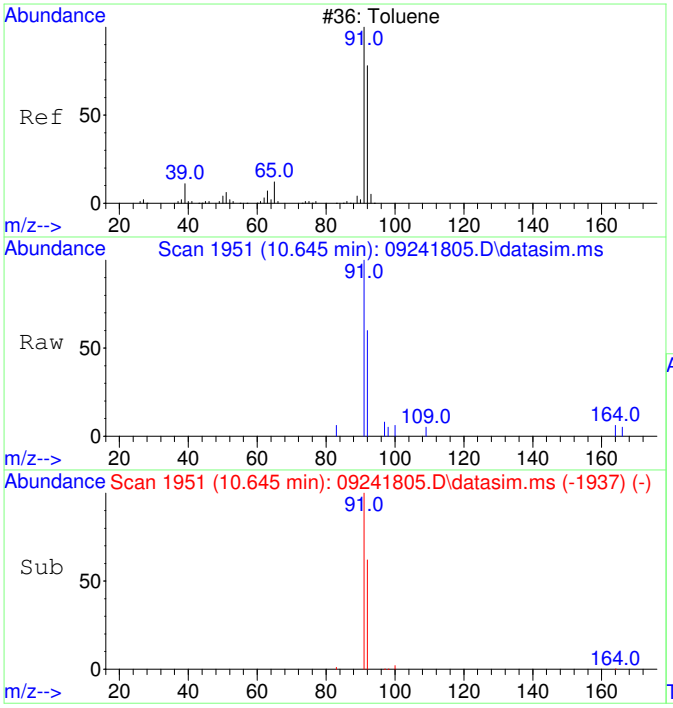


#12
Toluene-d8
Concen: 53.36 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 98 Resp: 1390

Ion	Ratio	Lower	Upper
98	100		
100	69.8	38.7	98.7

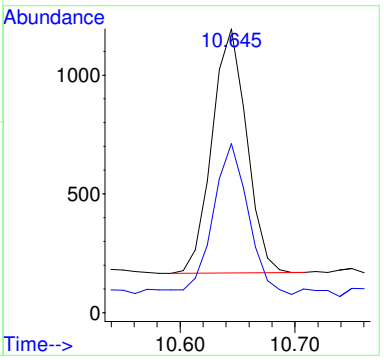


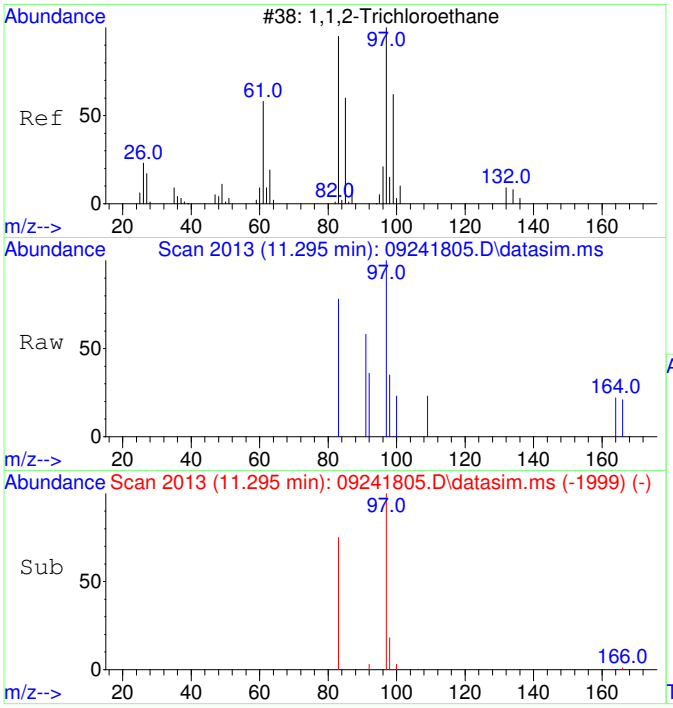


#13
Toluene
Concen: 61.70 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2155

Ion	Ratio	Lower	Upper
91	100		
92	63.6	30.0	90.0

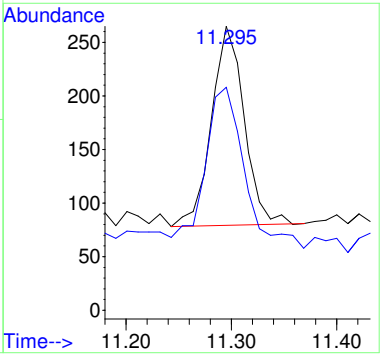


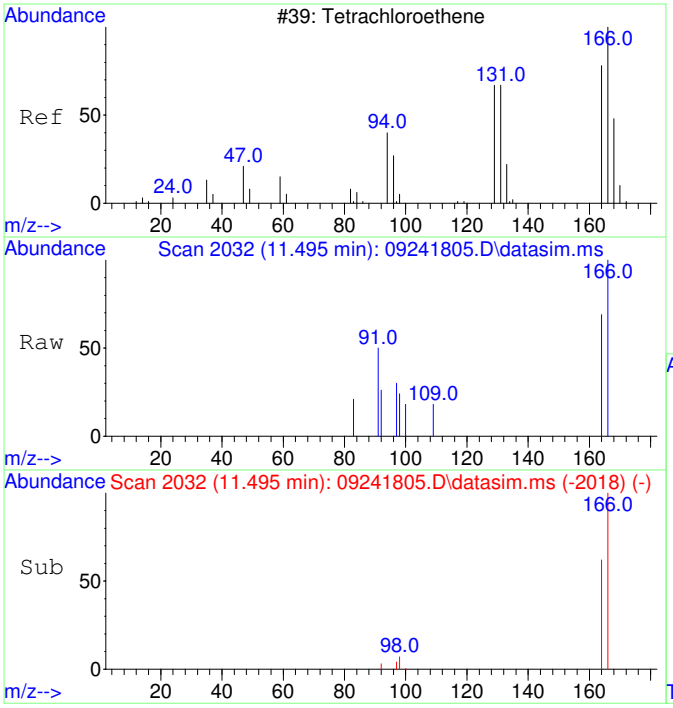


#14
1,1,2-Trichloroethane
Concen: 55.69 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
83	97.0	53.4	113.4

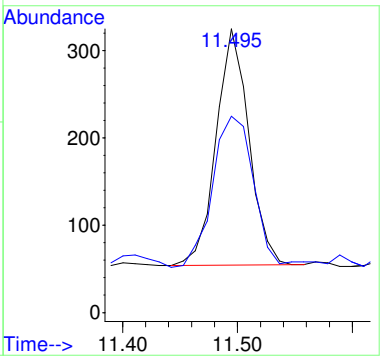


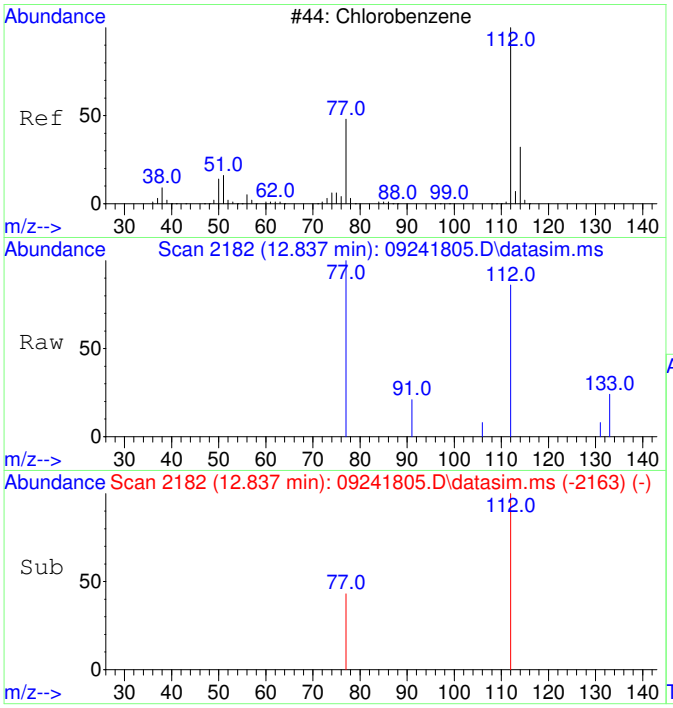


#15
Tetrachloroethene
Concen: 54.47 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:166 Resp: 536

Ion	Ratio	Lower	Upper
166	100		
164	79.9	47.8	107.8

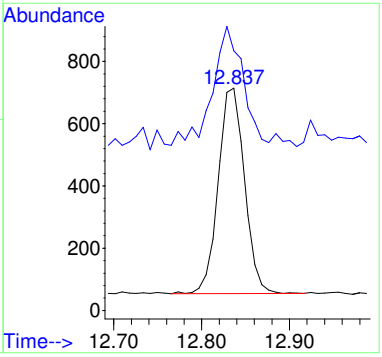


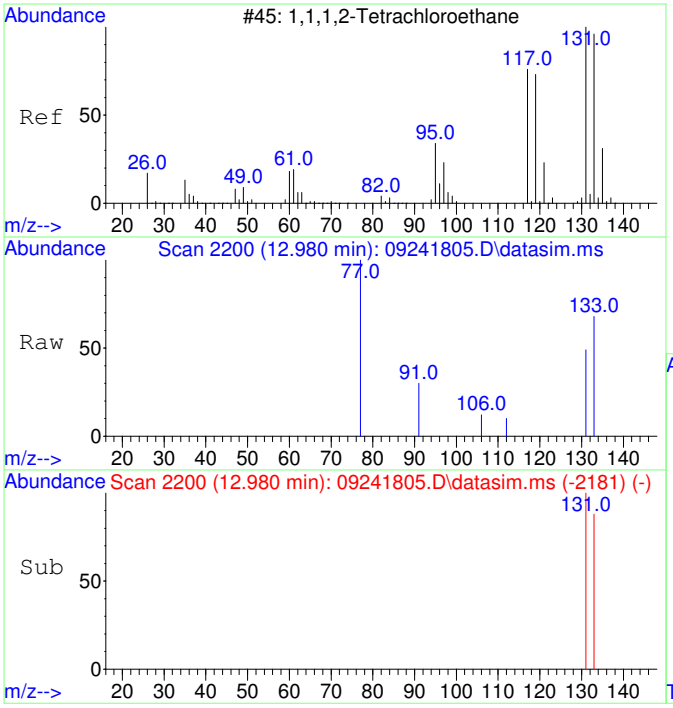


#16
Chlorobenzene
Concen: 54.96 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:112 Resp: 1370

Ion	Ratio	Lower	Upper
112	100		
77	68.2	28.1	88.1

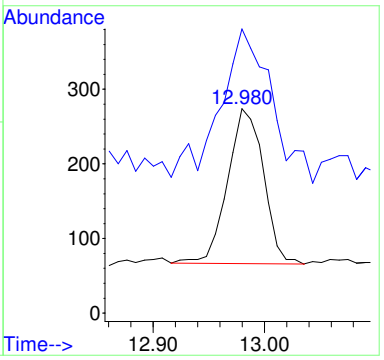


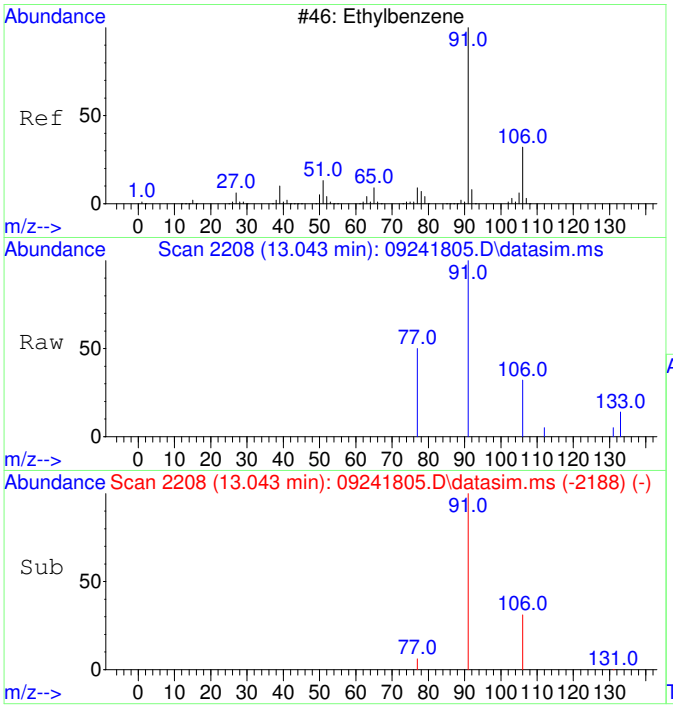


#17
1,1,1,2-Tetrachloroethane
Concen: 54.97 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:131 Resp: 465

Ion	Ratio	Lower	Upper
131	100		
133	145.4	66.2	126.2#

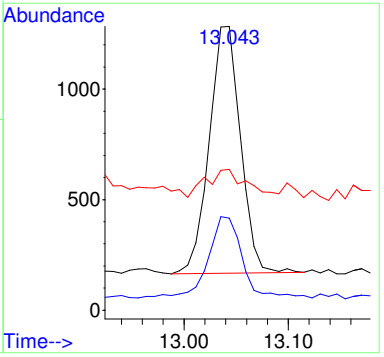


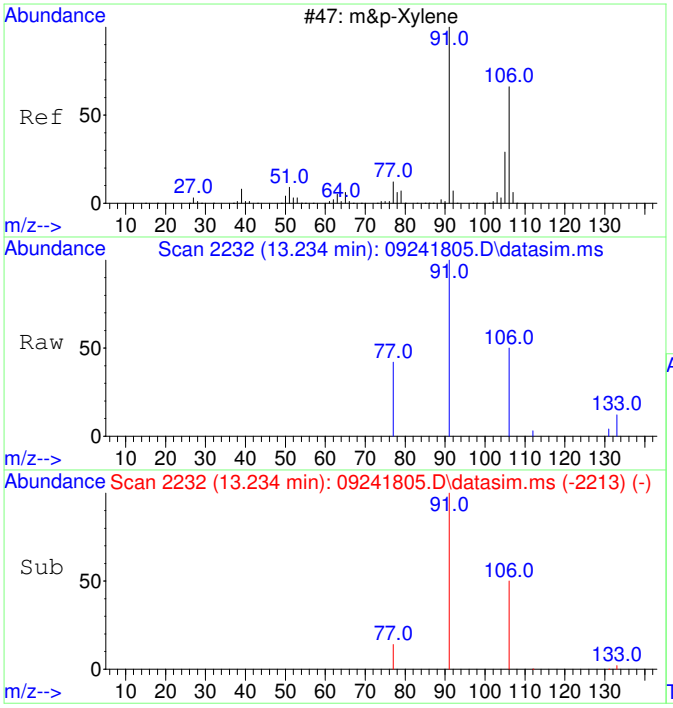


#18
Ethylbenzene
Concen: 55.31 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2318

Ion	Ratio	Lower	Upper
91	100		
106	35.7	2.8	62.8
77	15.4	0.0	38.6

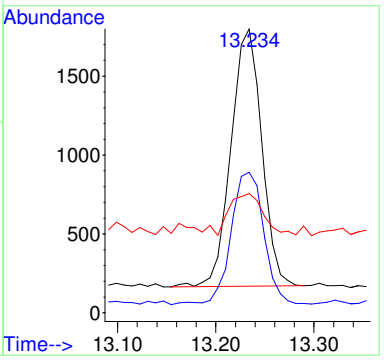


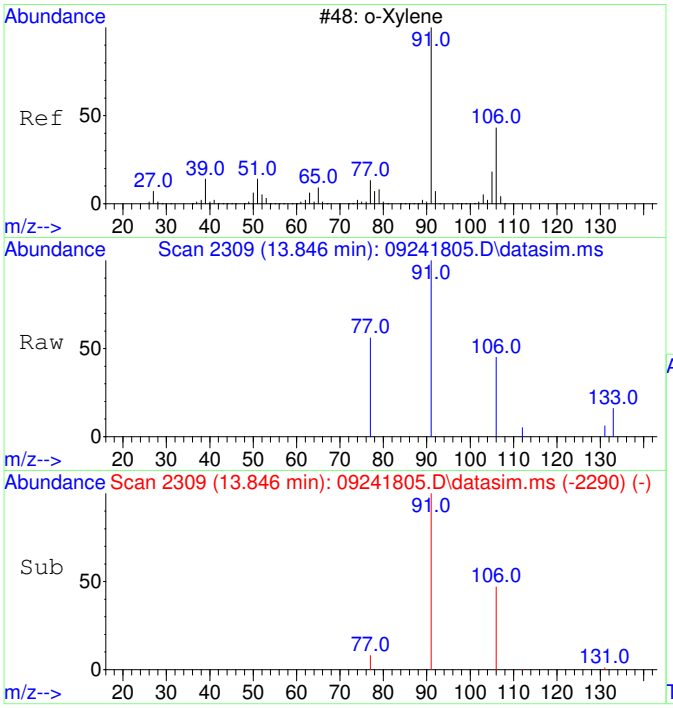


#19
m&p-Xylene
Concen: 109.37 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 3538

Ion	Ratio	Lower	Upper
91	100		
106	54.7	21.2	81.2
77	17.8	0.0	42.9

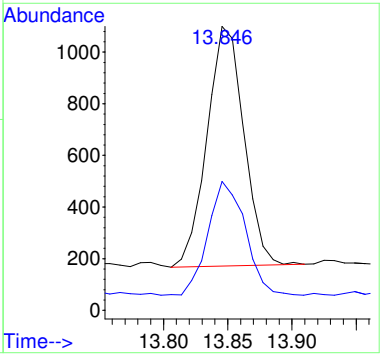


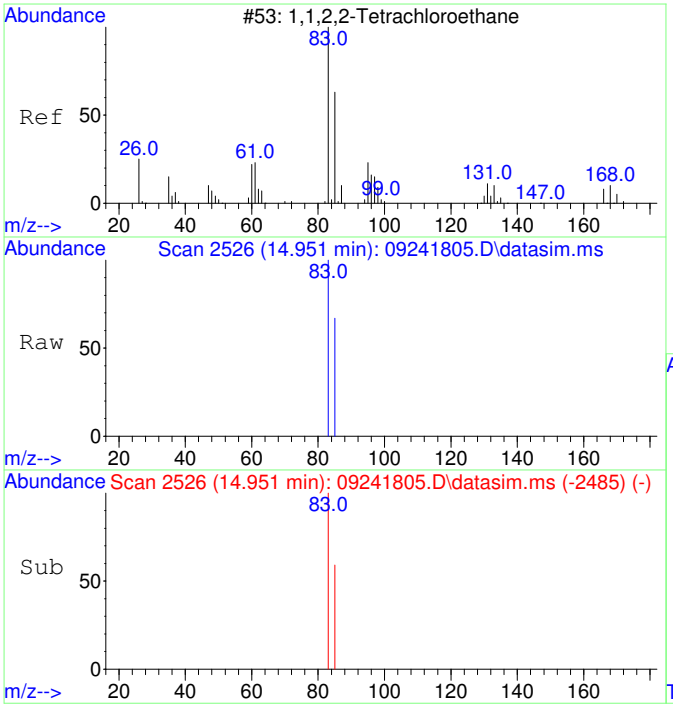


#20
o-Xylene
Concen: 54.06 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 1852

Ion	Ratio	Lower	Upper
91	100		
106	47.9	18.3	78.3

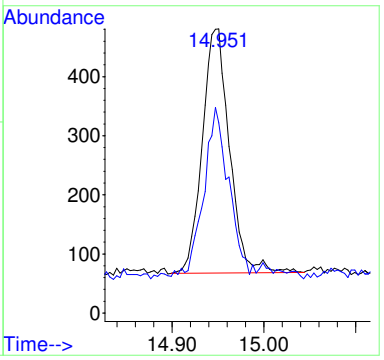


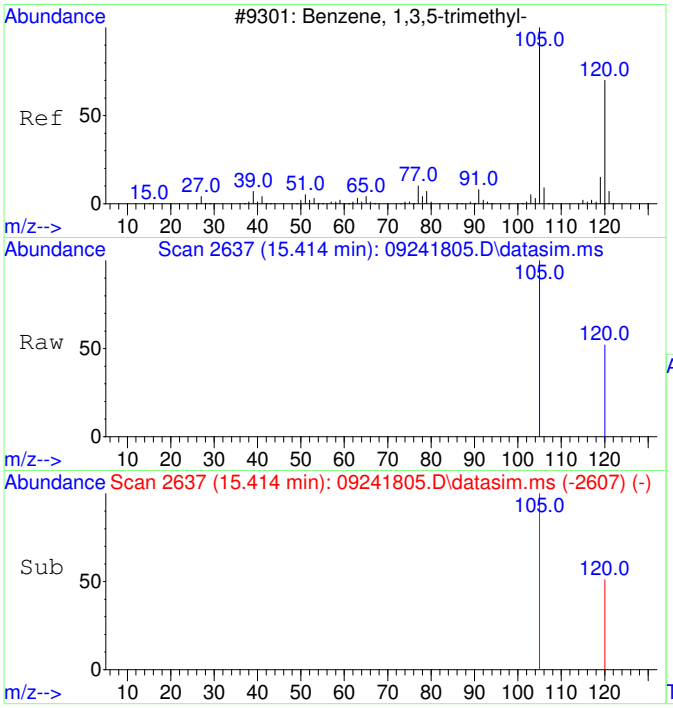


#21
1,1,2,2-Tetrachloroethane
Concen: 57.81 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 853

Ion	Ratio	Lower	Upper
83	100		
85	63.4	34.4	94.4

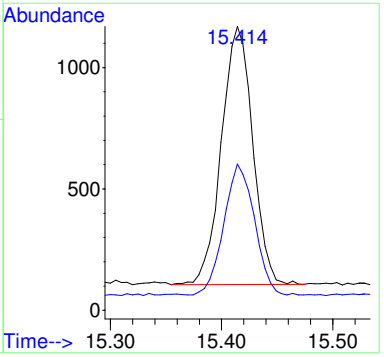


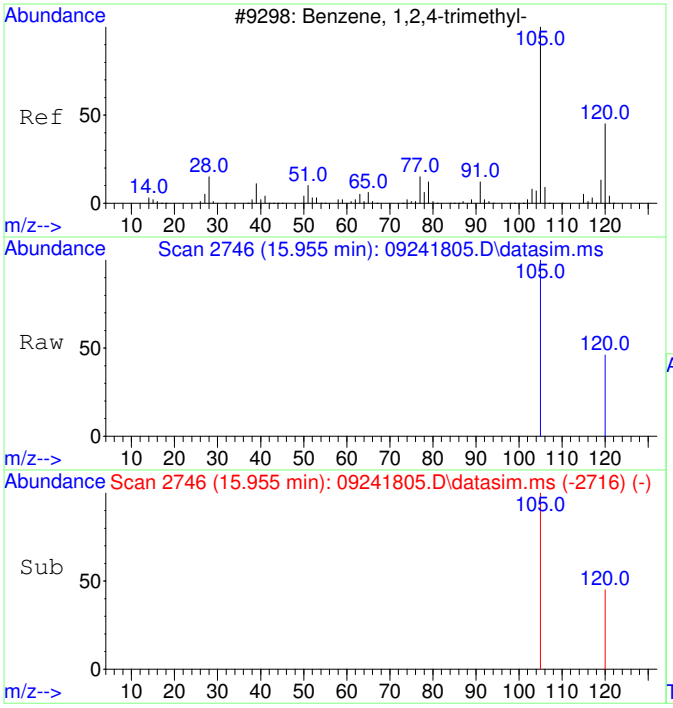


#22
1,3,5-Trimethylbenzene
Concen: 53.55 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 2076

Ion	Ratio	Lower	Upper
105	100		
120	49.8	19.1	79.1

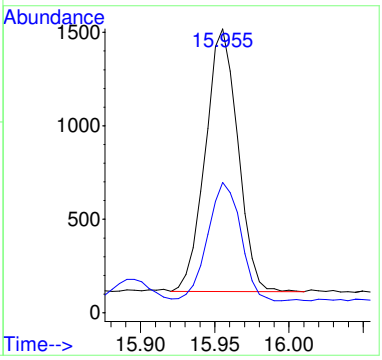


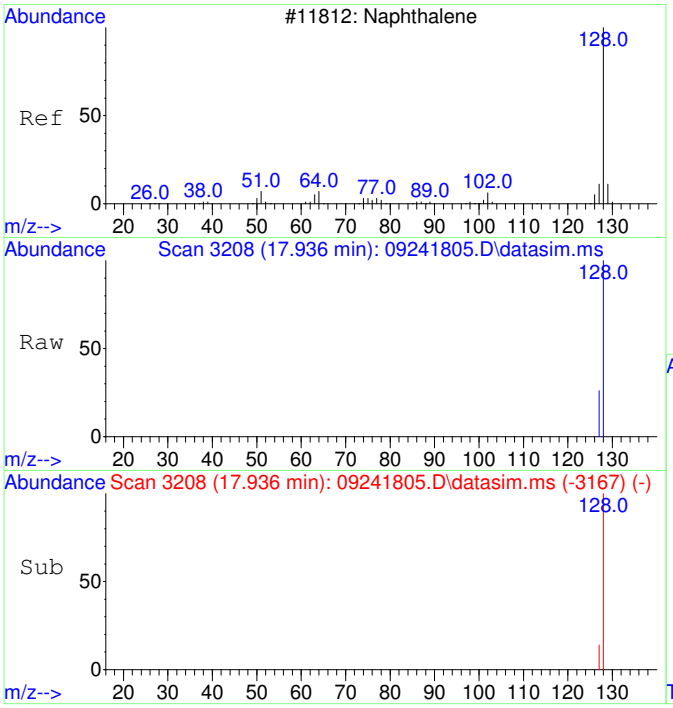


#23
1,2,4-Trimethylbenzene
Concen: 55.09 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 2136

Ion	Ratio	Lower	Upper
105	100		
120	44.9	15.5	75.5

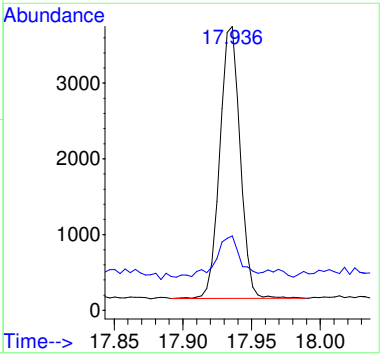


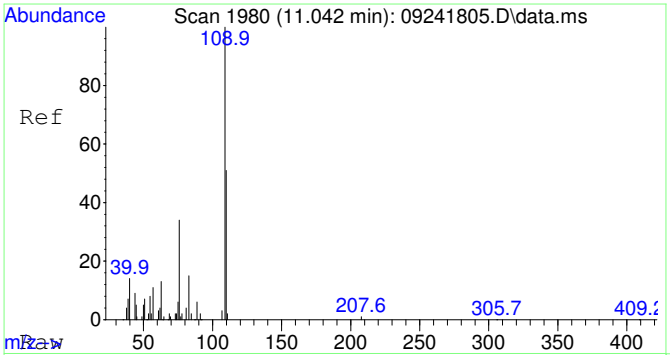


#24
Naphthalene
Concen: 57.66 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:128 Resp: 3669

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	42.5

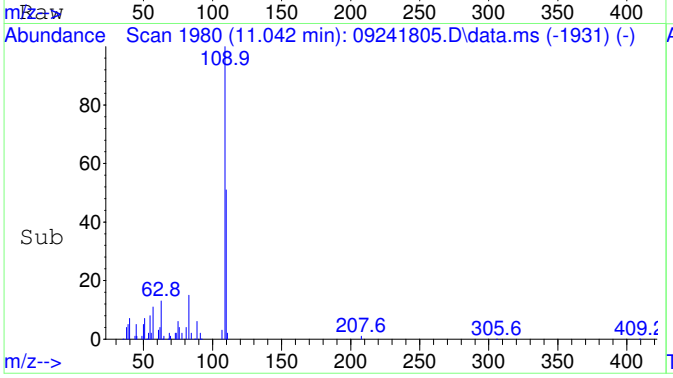


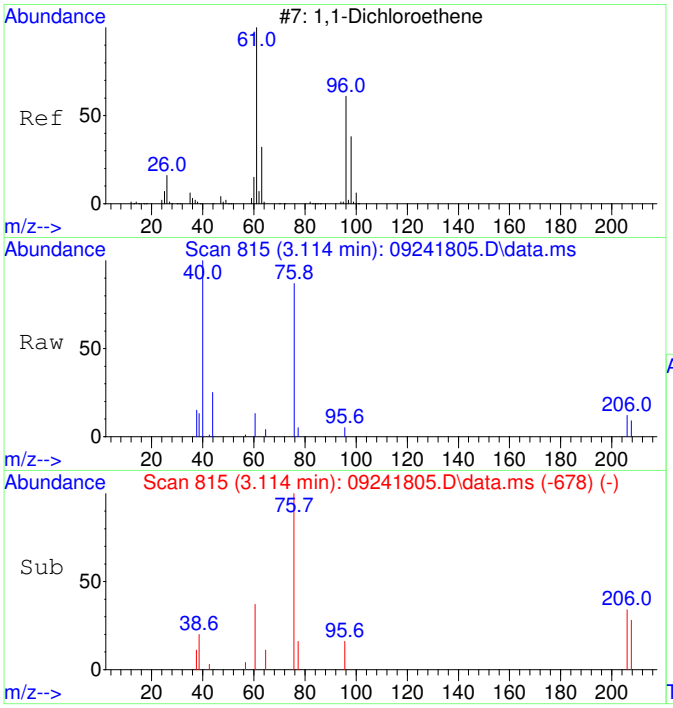


#25
2-Fluorotoluene SCAN
Concen: 4773.27 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:109 Resp: 89200

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	45.7

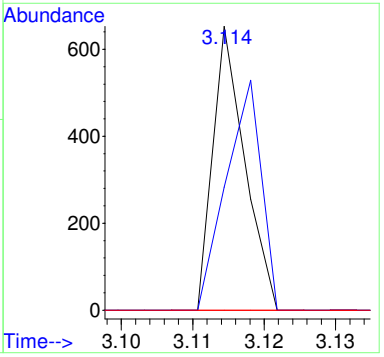


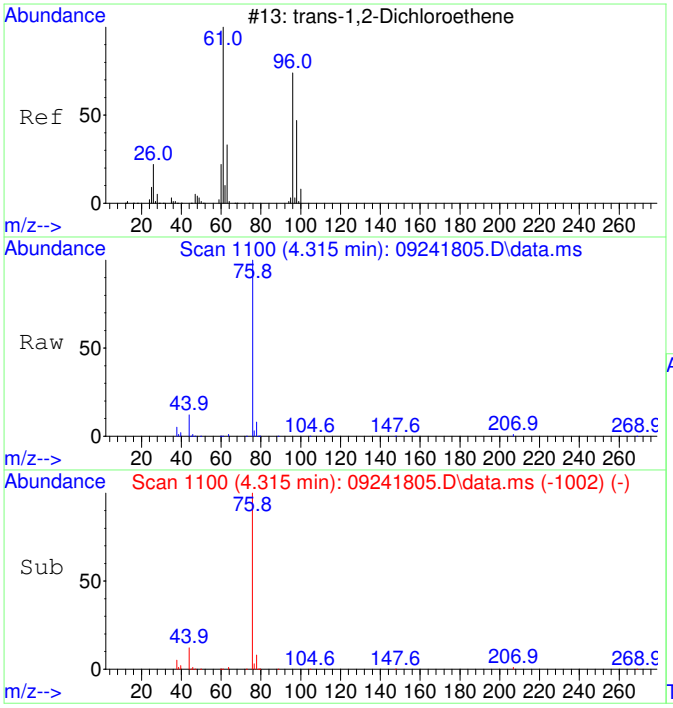


#26
1,1-Dichloroethene SCAN
Concen: 43.32 ug/L
RT: 3.114 min Scan# 815
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 202

Ion	Ratio	Lower	Upper
61	100		
96	89.6	23.8	83.8#
98	0.0	8.8	68.8#

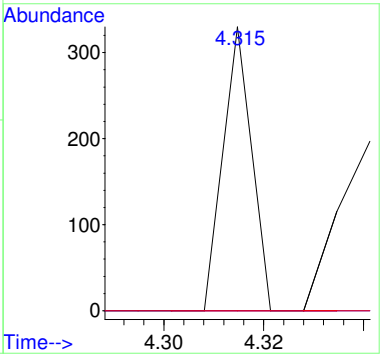


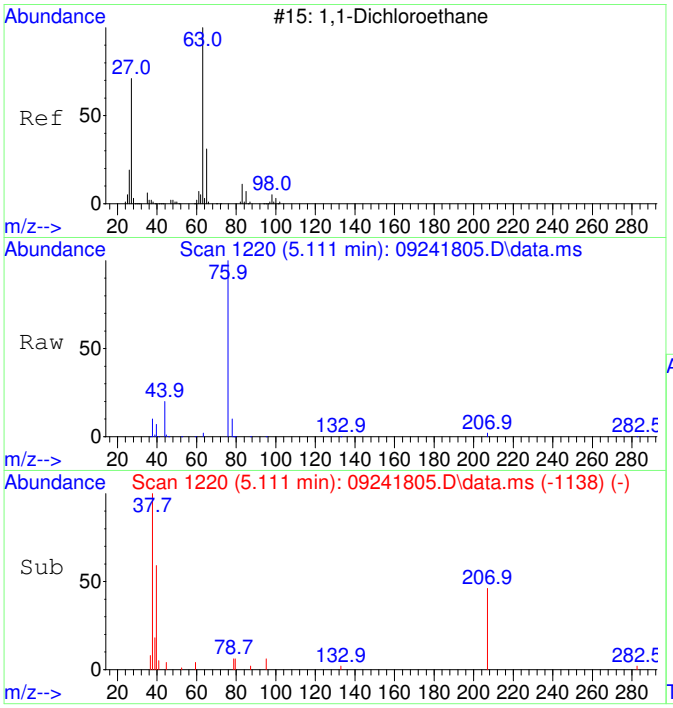


#27
trans-1,2-Dichloroethene SCAN
Concen: 24.13 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 131

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	0.0	12.7	72.7#

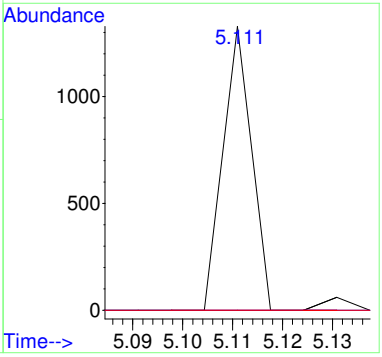


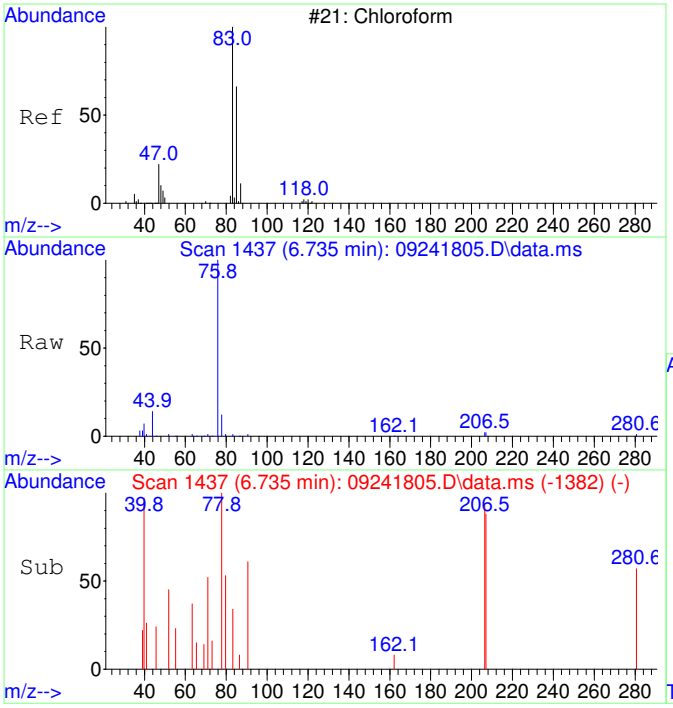


#28
1,1-Dichloroethane SCAN
Concen: 76.60 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.046 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 63 Resp: 529

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

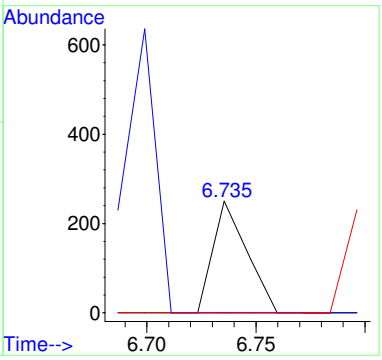


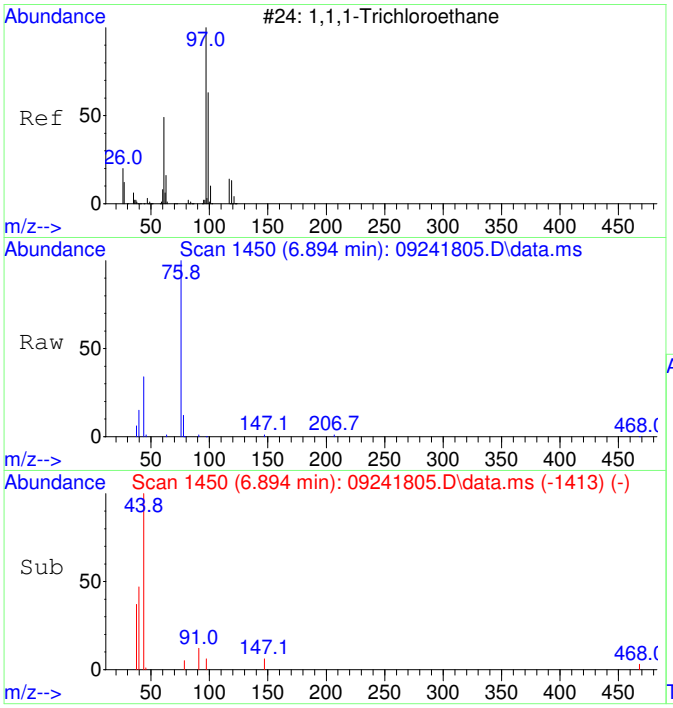


#30
Chloroform SCAN
Concen: 36.83 ug/L
RT: 6.735 min Scan# 1437
Delta R.T. 0.049 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 270

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

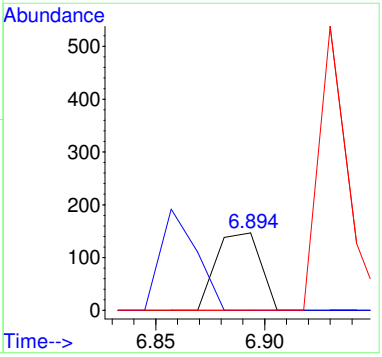


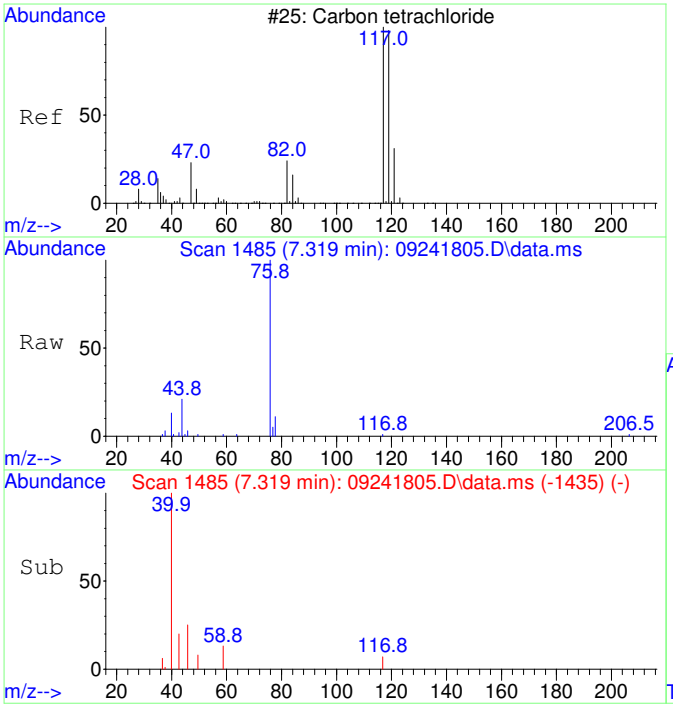


#31
1,1,1-Trichloroethane SCAN
Concen: 31.87 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.049 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 208

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

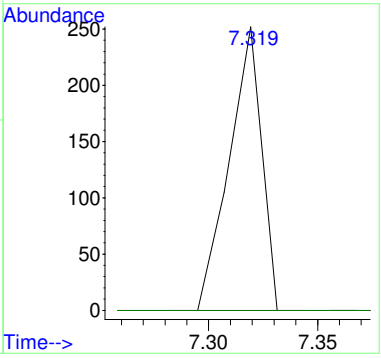


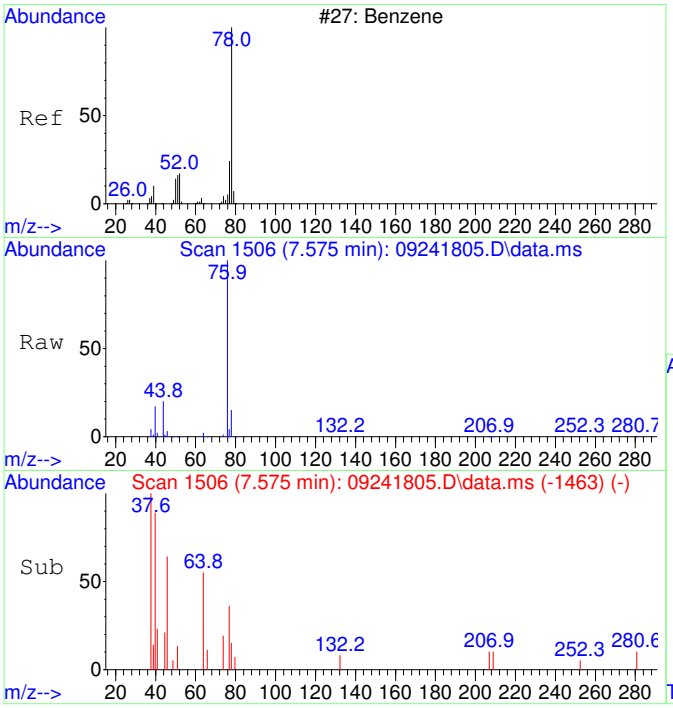


#32
Carbon tetrachloride SCAN
Concen: 40.59 ug/L
RT: 7.319 min Scan# 1485
Delta R.T. 0.109 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:117 Resp: 261

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

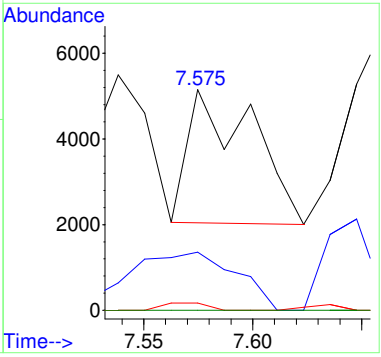


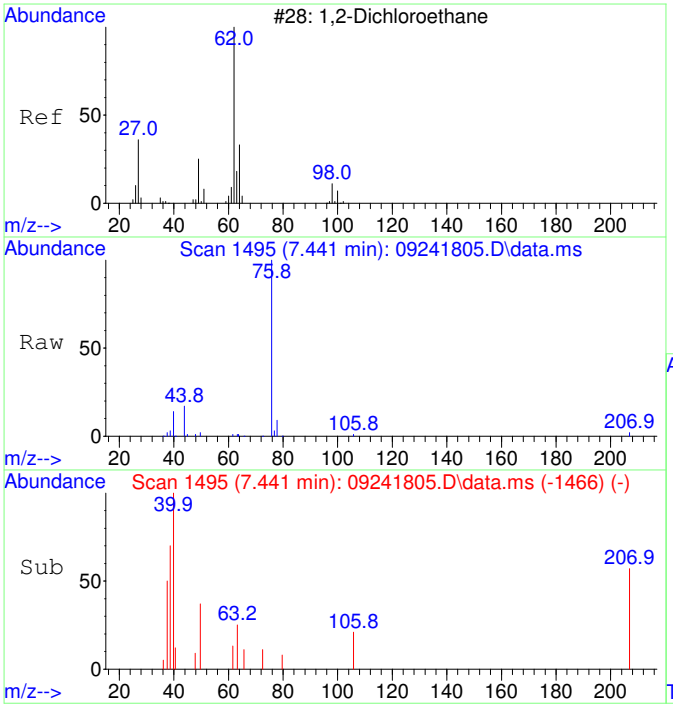


#33
Benzene SCAN
Concen: 329.82 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.024 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 78 Resp: 6419

Ion	Ratio	Lower	Upper
78	100		
77	73.5	3.0	63.0#
51	3.8	0.0	56.4
52	0.0	0.0	48.0

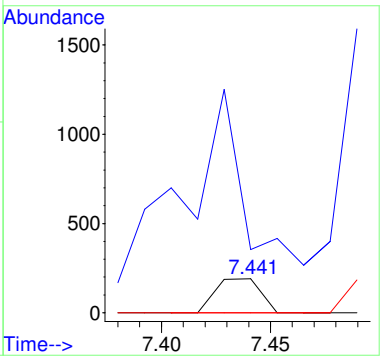


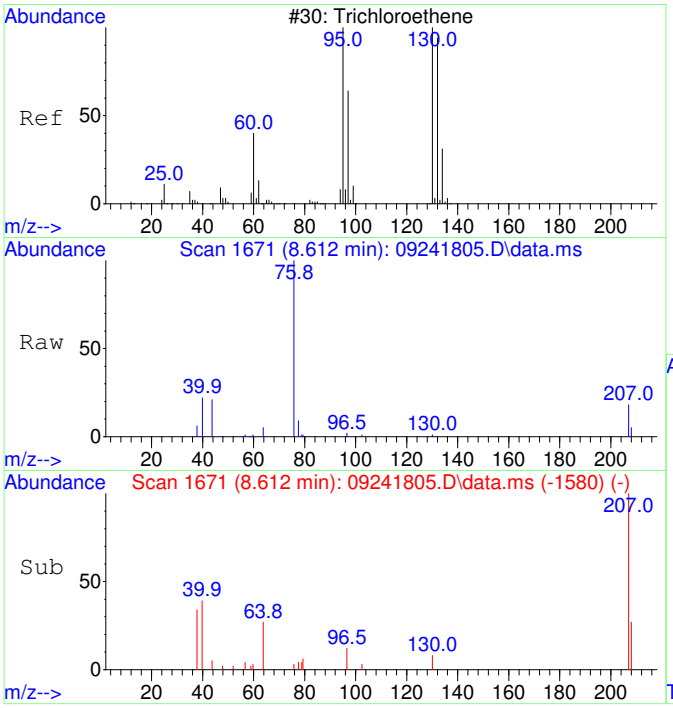


#34
1,2-Dichloroethane SCAN
Concen: 41.58 ug/L
RT: 7.441 min Scan# 1495
Delta R.T. -0.146 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 62 Resp: 276

Ion	Ratio	Lower	Upper
62	100		
64	680.1	1.2	61.2#
49	0.0	10.4	70.4#

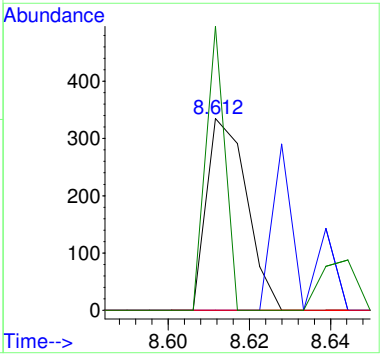


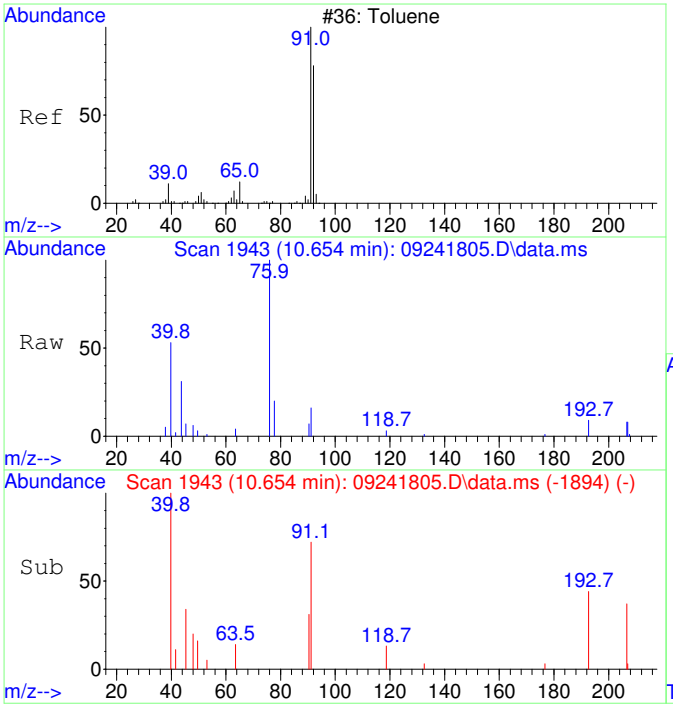


#35
Trichloroethene SCAN
Concen: 48.08 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:130 Resp: 229

Ion	Ratio	Lower	Upper
130	100		
95	0.0	70.5	130.5#
132	0.0	63.8	123.8#
97	70.7	34.8	94.8

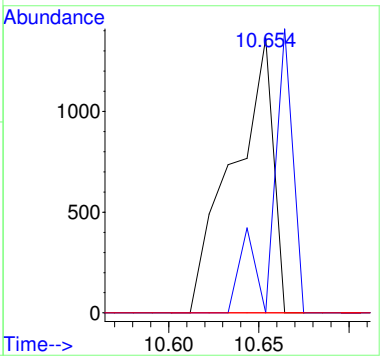


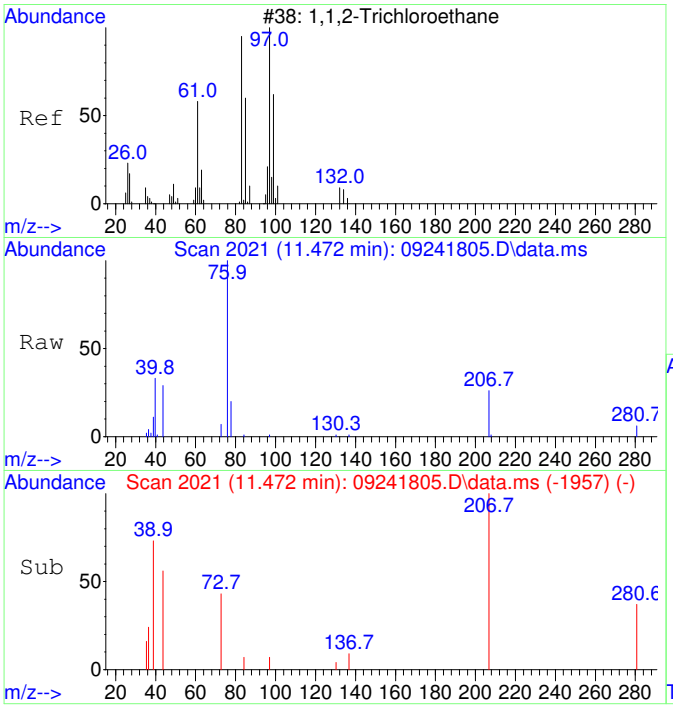


#37
Toluene SCAN
Concen: 98.01 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2115

Ion	Ratio	Lower	Upper
91	100		
92	54.6	26.6	86.6
65	0.0	0.0	42.3

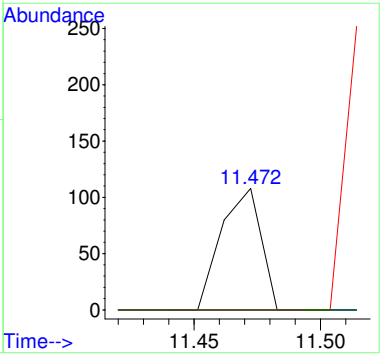


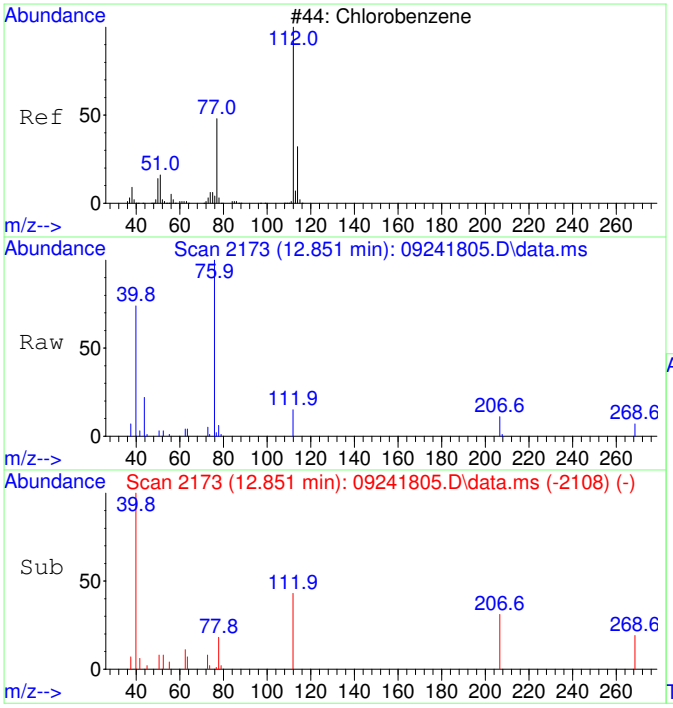


#38
1,1,2-Trichloroethane SCAN
Concen: 28.54 ug/L
RT: 11.472 min Scan# 2021
Delta R.T. 0.168 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 118

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

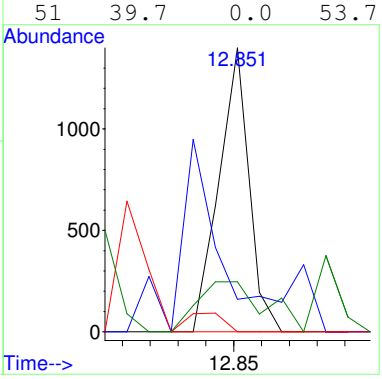


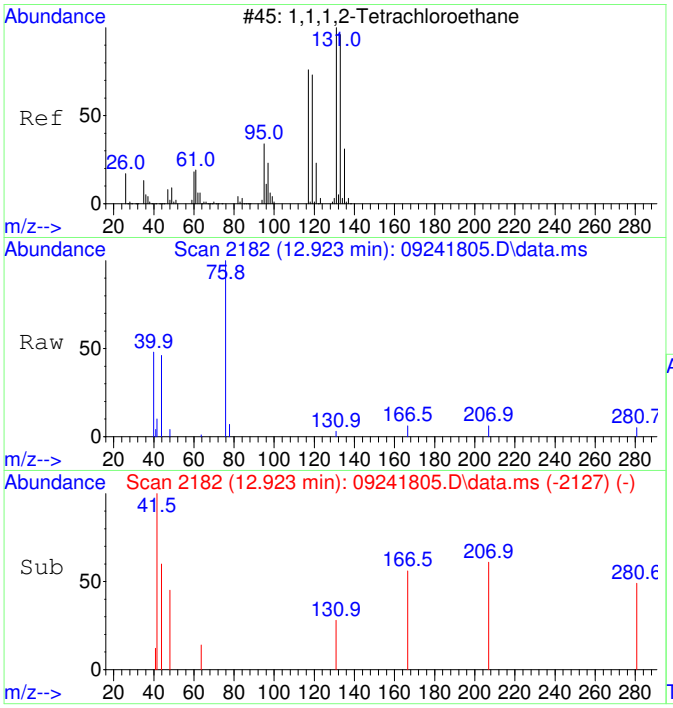


#40
Chlorobenzene SCAN
Concen: 80.67 ug/L
RT: 12.851 min Scan# 2173
Delta R.T. 0.016 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:112 Resp: 1056

Ion	Ratio	Lower	Upper
112	100		
77	110.6	28.4	88.4#
114	0.0	0.0	59.5
51	39.7	0.0	53.7

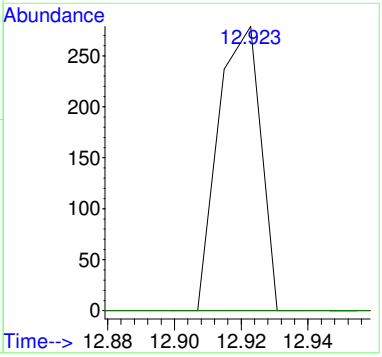


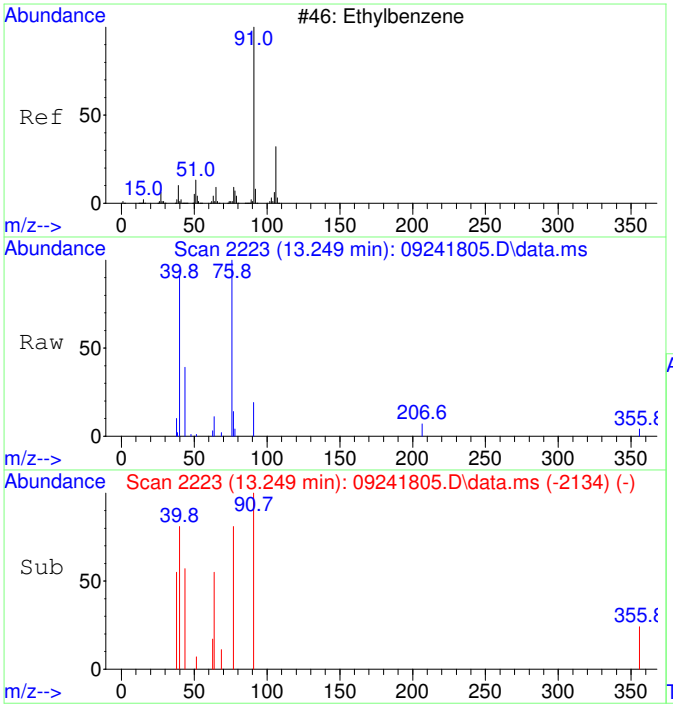


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 52.65 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. -0.064 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:131 Resp: 246

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

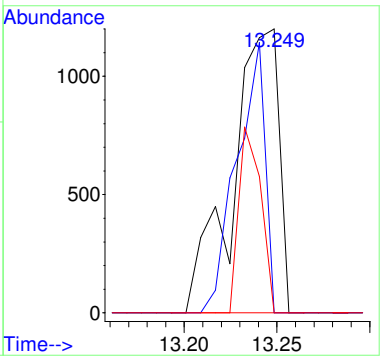


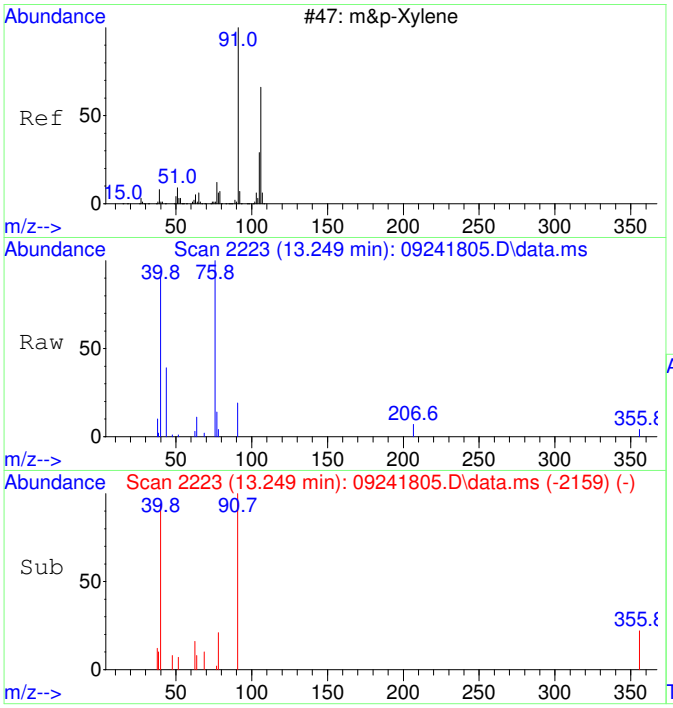


#42
Ethylbenzene SCAN
Concen: 83.16 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.207 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2086

Ion	Ratio	Lower	Upper
91	100		
106	58.2	3.2	63.2
51	31.2	0.0	40.1

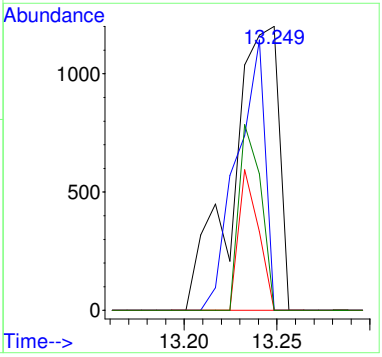


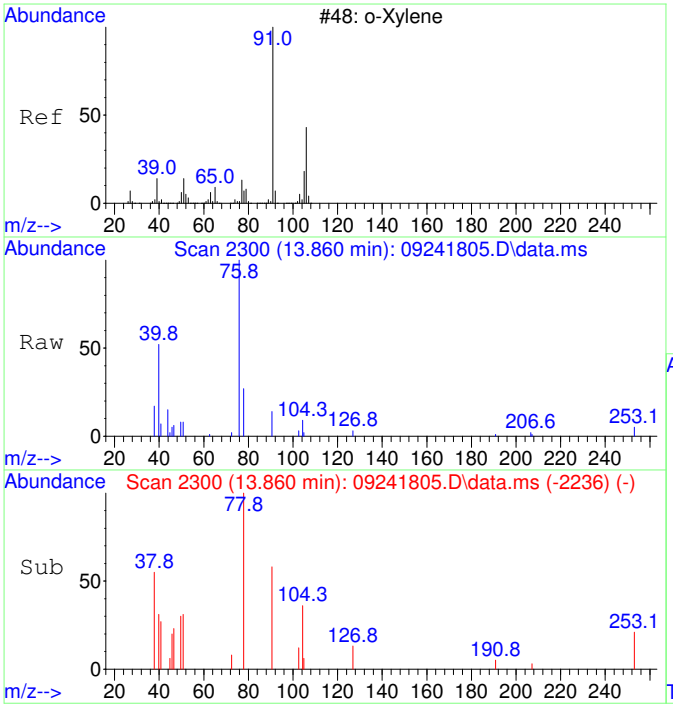


#43
m&p-Xylene SCAN
Concen: 59.91 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2086

Ion	Ratio	Lower	Upper
91	100		
106	58.2	20.1	80.1
105	21.2	0.0	51.1
51	31.2	0.0	40.7

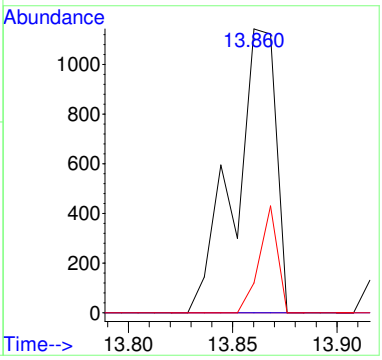


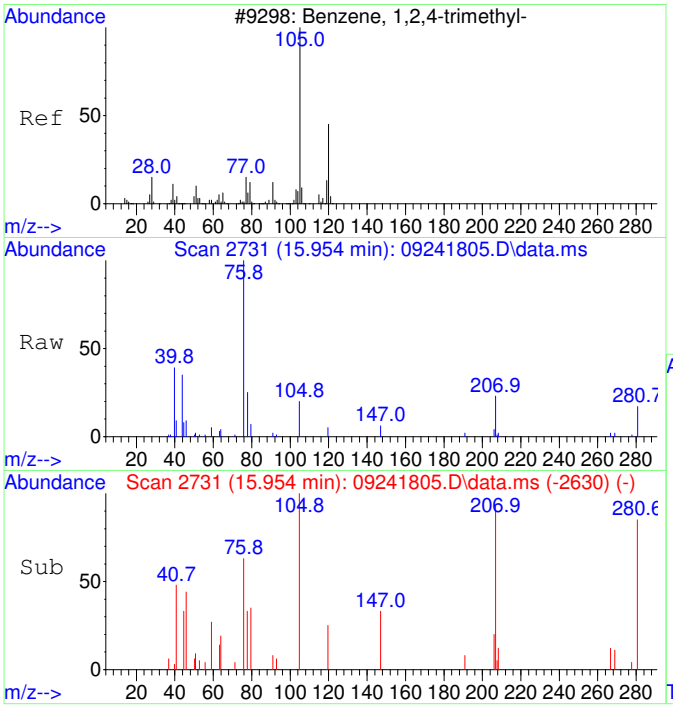


#44
o-Xylene SCAN
Concen: 79.48 ug/L
RT: 13.860 min Scan# 2300
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 1575

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	16.6	0.0	55.2

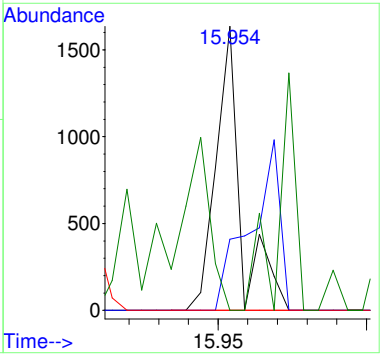


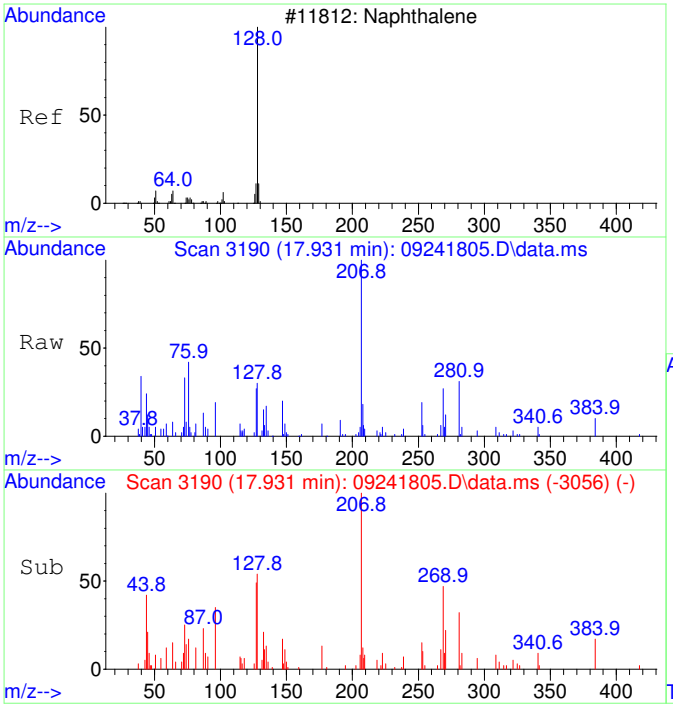


#47
1,2,4-Trimethylbenzene SCAN
Concen: 47.28 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 952

Ion	Ratio	Lower	Upper
105	100		
120	0.0	15.4	75.4#
119	0.0	0.0	41.7
77	43.5	0.0	42.0#

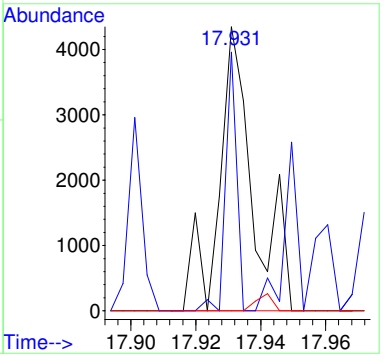




#48
Naphthalene SCAN
Concen: 111.90 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. -0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:128 Resp: 3215

Ion	Ratio	Lower	Upper
128	100		
127	28.6	0.0	43.9
129	0.0	0.0	40.5



Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 13:50
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 16:29:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

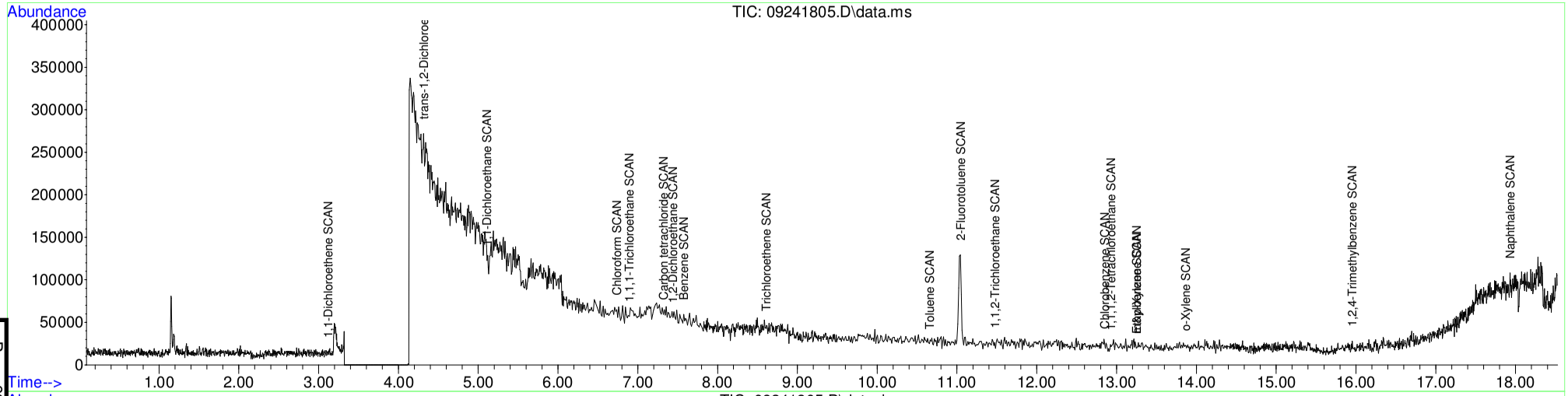
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	160370	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	1390	53.36 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.07%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	985	146.56 ug/L #	53
3] trans-1,2-Dichloroethene	4.309	61	313	43.65 ug/L	98
4] 1,1-Dichloroethane	5.072	63	513	57.48 ug/L	71
5] cis-1,2-Dichloroethene	6.101	61	435	49.40 ug/L	82
6] Chloroform	6.676	83	511	53.90 ug/L	90
7] 1,1,1-Trichloroethane	6.931	97	492	52.72 ug/L #	26
8] Carbon tetrachloride	7.211	117	450	50.91 ug/L	71
9] Benzene	7.552	78	2109	81.91 ug/L	85
10] 1,2-Dichloroethane	7.588	62	403	48.56 ug/L	78
11] Trichloroethene	8.624	130	357	50.45 ug/L #	81
13] Toluene	10.645	91	2155	61.70 ug/L	95
14] 1,1,2-Trichloroethane	11.295	97	402	55.69 ug/L	85
15] Tetrachloroethene	11.495	166	536	54.47 ug/L	98
16] Chlorobenzene	12.837	112	1370	54.96 ug/L	86
17] 1,1,1,2-Tetrachloroethane	12.980	131	465	54.97 ug/L #	50
18] Ethylbenzene	13.043	91	2318	55.31 ug/L	92
19] m&p-Xylene	13.234	91	3538	109.37 ug/L	94
20] o-Xylene	13.846	91	1852	54.06 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.951	83	853	57.81 ug/L	99
22] 1,3,5-Trimethylbenzene	15.414	105	2076	53.55 ug/L	99
23] 1,2,4-Trimethylbenzene	15.955	105	2136	55.09 ug/L	99
24] Naphthalene	17.936	128	3669	57.66 ug/L	94
25) 2-Fluorotoluene SCAN	11.042	109	89200	4773.27 ug/L	99
26) 1,1-Dichloroethene SCAN	3.114	61	202	43.32 ug/L #	44
27) trans-1,2-Dichloroethe...	4.315	61	131	24.13 ug/L #	23
28) 1,1-Dichloroethane SCAN	5.111	63	529	76.60 ug/L #	43
30) Chloroform SCAN	6.735	83	270	36.83 ug/L #	28
31) 1,1,1-Trichloroethane ...	6.894	97	208	31.87 ug/L #	26
32) Carbon tetrachloride SCAN	7.319	117	261	40.59 ug/L #	13
33) Benzene SCAN	7.575	78	6419	329.82 ug/L #	45
34) 1,2-Dichloroethane SCAN	7.441	62	276	41.58 ug/L #	1
35) Trichloroethene SCAN	8.612	130	229	48.08 ug/L #	24
37) Toluene SCAN	10.654	91	2115	98.01 ug/L #	92
38) 1,1,2-Trichloroethane ...	11.472	97	118	28.54 ug/L #	10
40) Chlorobenzene SCAN	12.851	112	1056	80.67 ug/L #	42
41) 1,1,1,2-Tetrachloroeth...	12.923	131	246	52.65 ug/L #	13
42) Ethylbenzene SCAN	13.249	91	2086	83.16 ug/L	53
43) m&p-Xylene SCAN	13.249	91	2086	59.91 ug/L	86
44) o-Xylene SCAN	13.860	91	1575	79.48 ug/L #	45
47) 1,2,4-Trimethylbenzene...	15.954	105	952	47.28 ug/L #	35
48) Naphthalene SCAN	17.931	128	3215	111.90 ug/L #	67

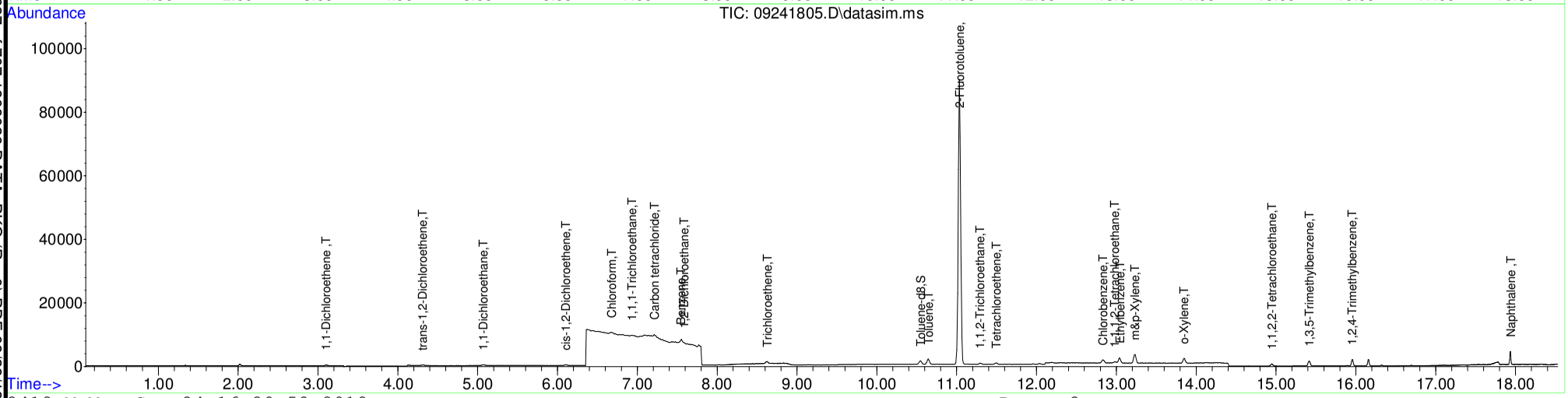
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\092418\
Data File : 09241805.D
Acq On : 24 Sep 2018 13:50
InstName : AG5975C
Operator : RH
Sample : S18I078-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 16:29:50 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\092418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration





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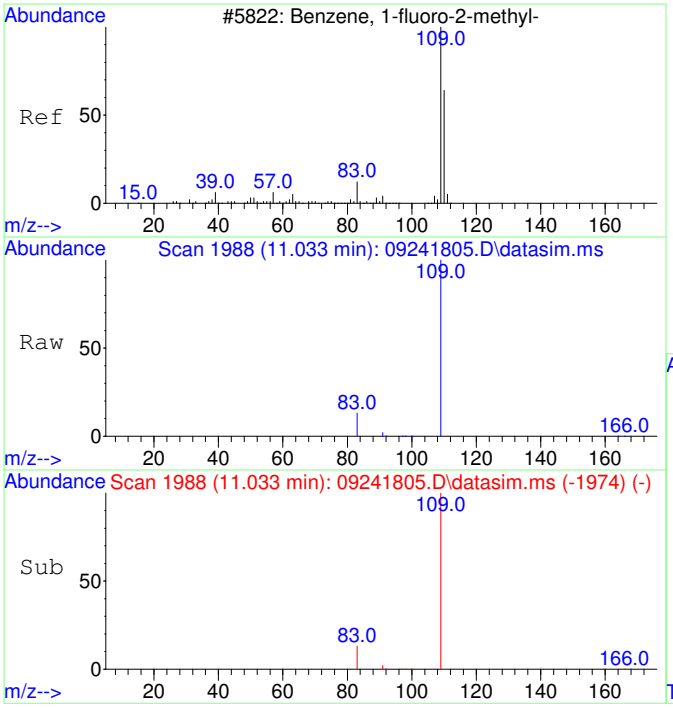
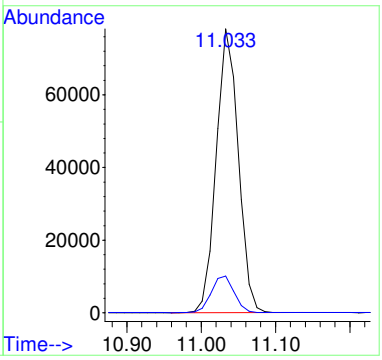
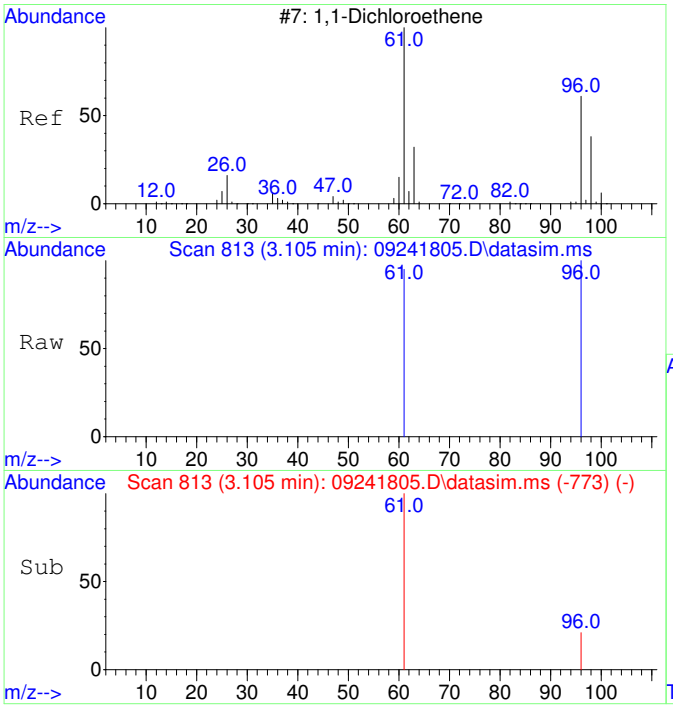


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:109 Resp: 160370

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	44.7

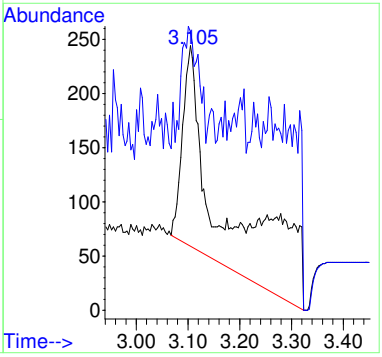




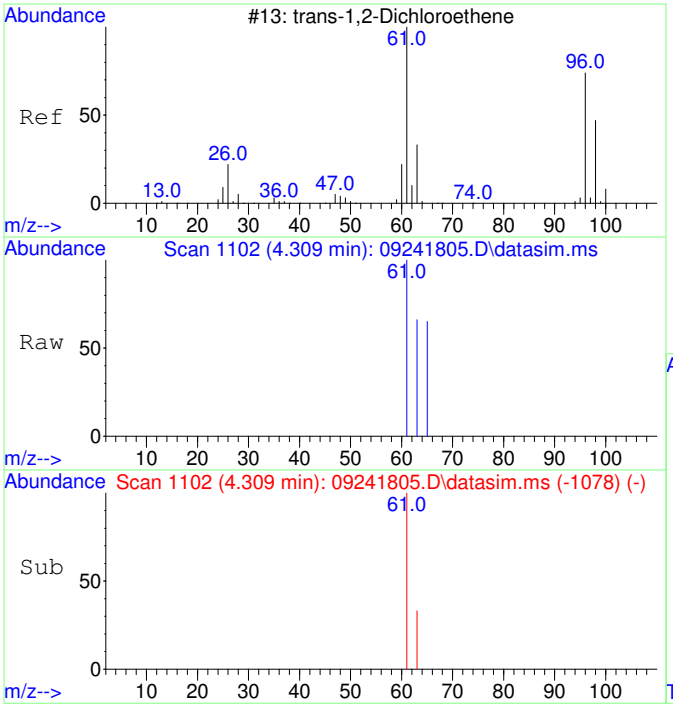
#2
1,1-Dichloroethene
Concen: 146.56 ug/L
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 985

Ion	Ratio	Lower	Upper
61	100		
96	23.4	28.7	88.7#



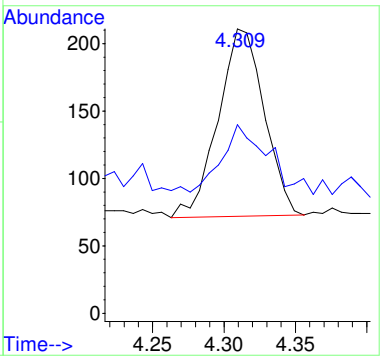
Before MI:
IMPROPER
BASELINE

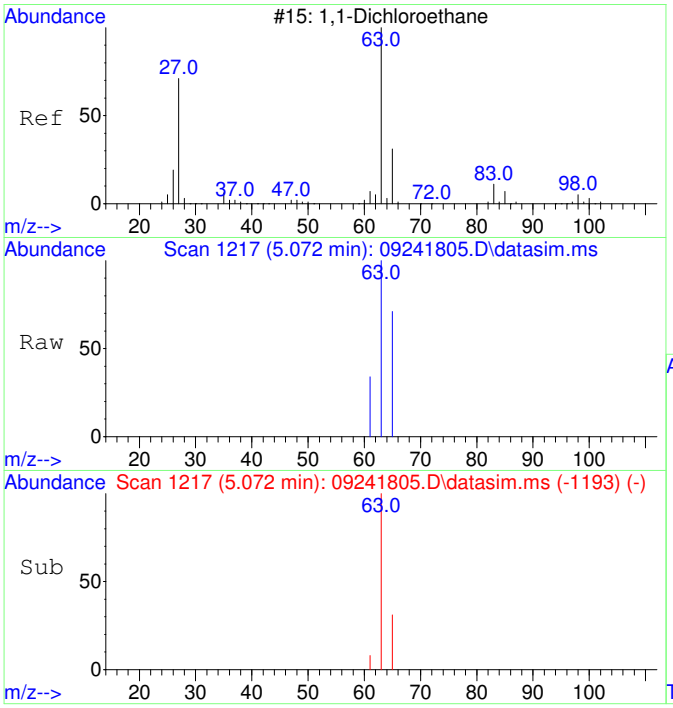


#3
trans-1,2-Dichloroethene
Concen: 43.65 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 313

Ion	Ratio	Lower	Upper
61	100		
63	33.2	2.0	62.0

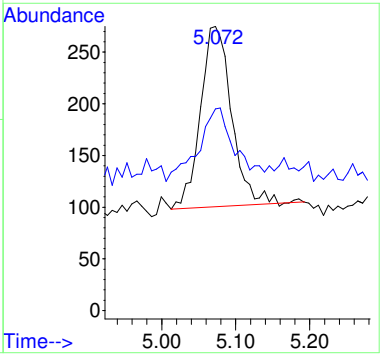


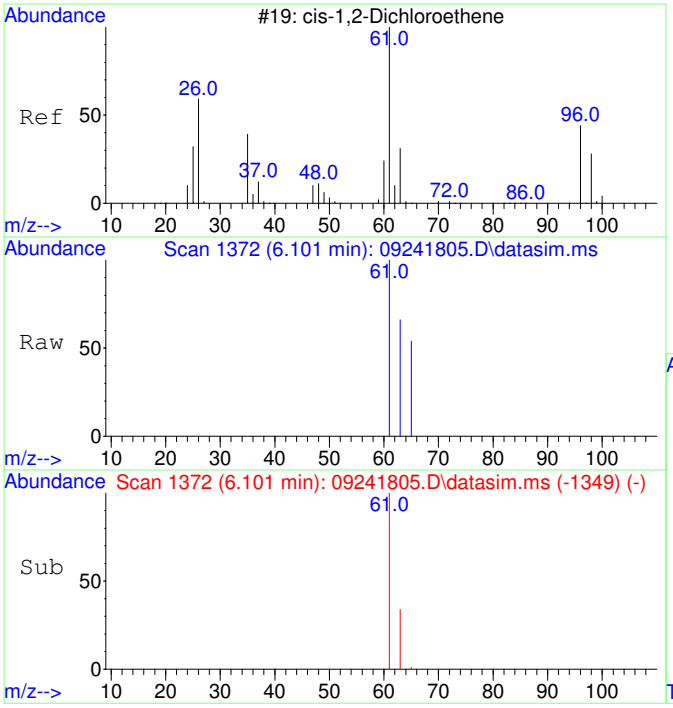


#4
1,1-Dichloroethane
Concen: 57.48 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 63 Resp: 513

Ion	Ratio	Lower	Upper
63	100		
65	47.4	1.5	61.5

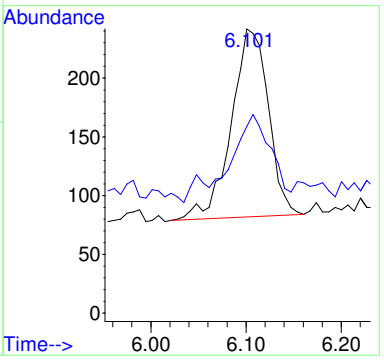


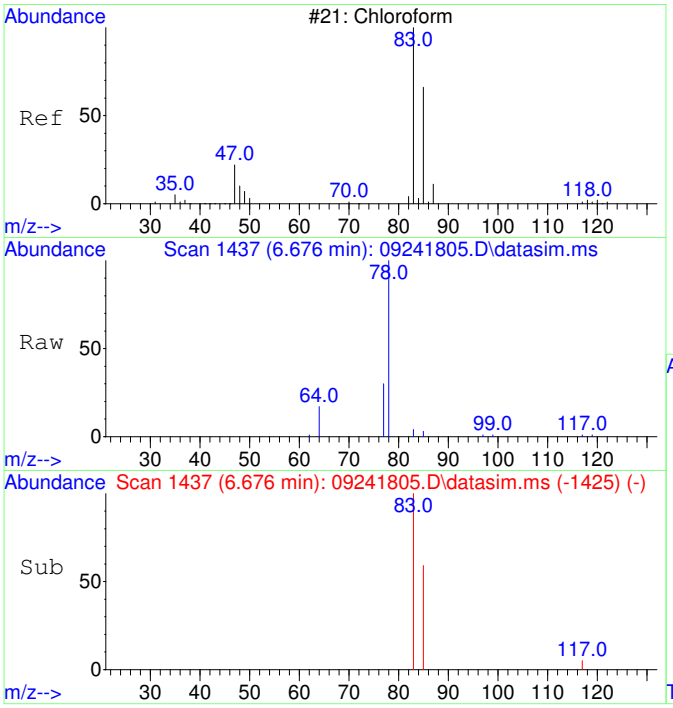


#5
cis-1,2-Dichloroethene
Concen: 49.40 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 435

Ion	Ratio	Lower	Upper
61	100		
63	42.3	2.2	62.2

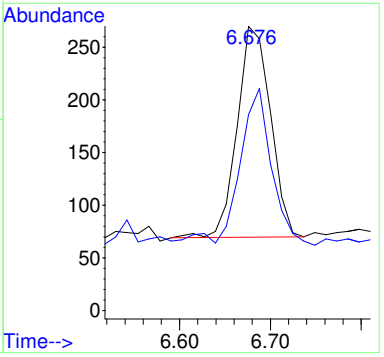


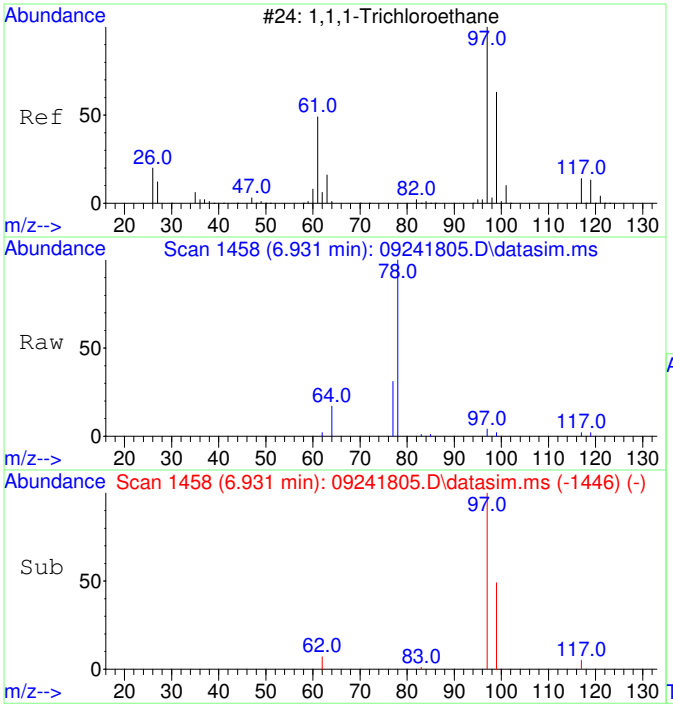


#6
Chloroform
Concen: 53.90 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 511

Ion	Ratio	Lower	Upper
83	100		
85	72.4	34.8	94.8

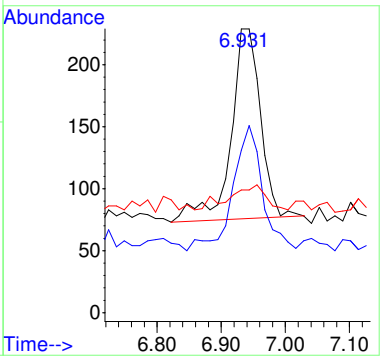


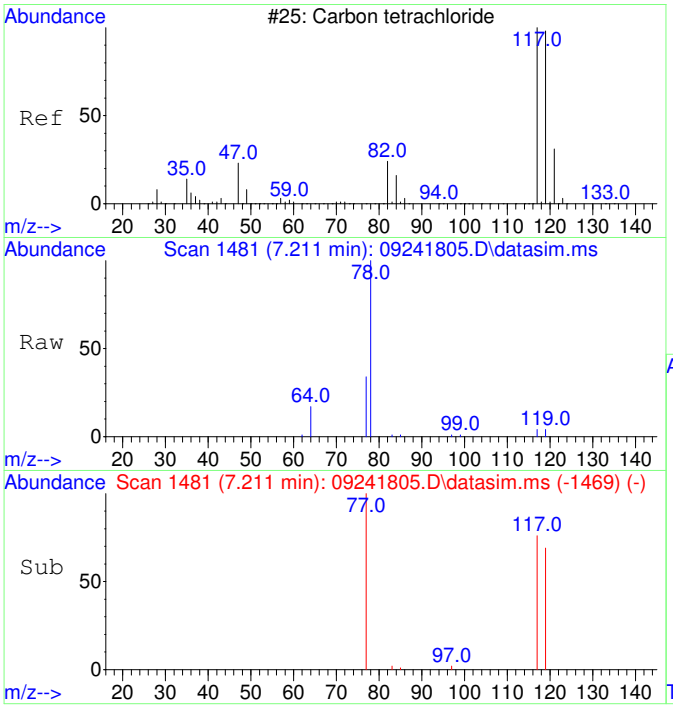


#7
1,1,1-Trichloroethane
Concen: 52.72 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 492

Ion	Ratio	Lower	Upper
97	100		
99	0.0	34.6	94.6#
117	0.0	0.0	42.9

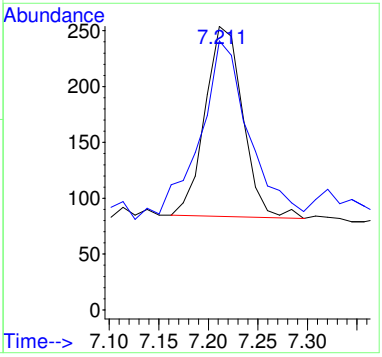


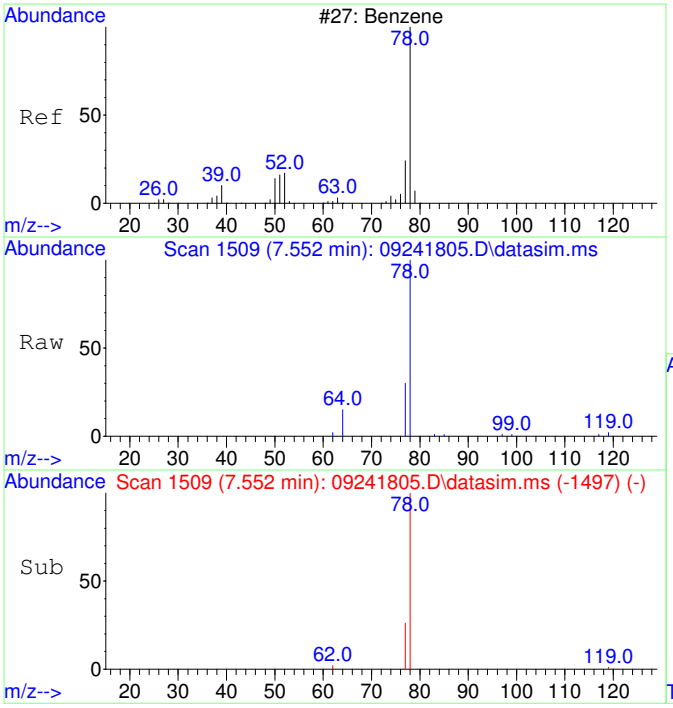


#8
Carbon tetrachloride
Concen: 50.91 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:117 Resp: 450

Ion	Ratio	Lower	Upper
117	100		
119	124.4	65.9	125.9

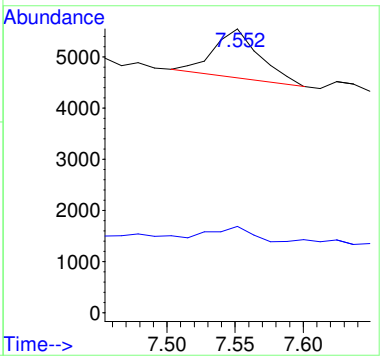


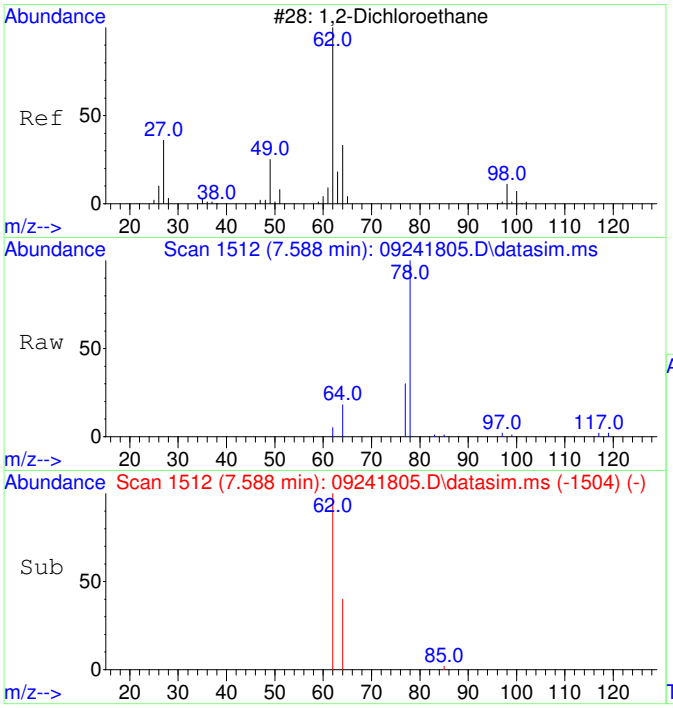


#9
Benzene
Concen: 81.91 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 78 Resp: 2109

Ion	Ratio	Lower	Upper
78	100		
77	30.3	0.0	53.0

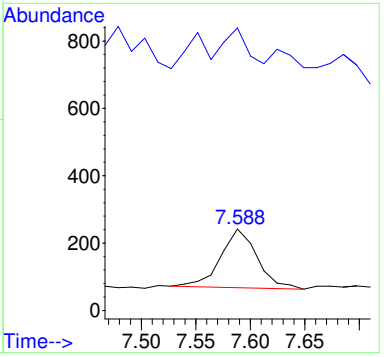


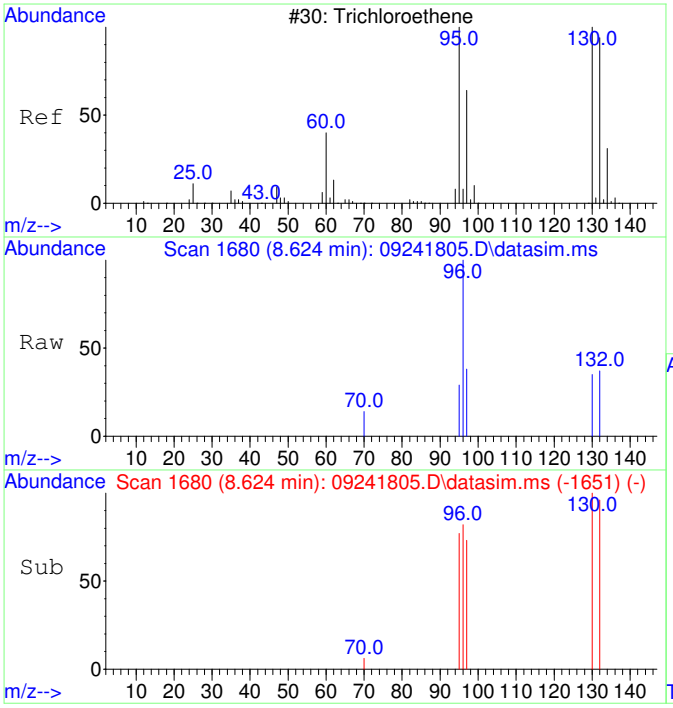


#10
1,2-Dichloroethane
Concen: 48.56 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 62 Resp: 403

Ion	Ratio	Lower	Upper
62	100		
64	44.7	2.3	62.3

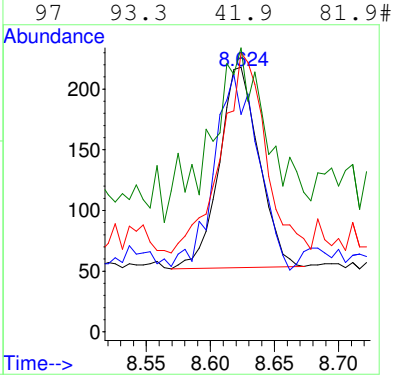


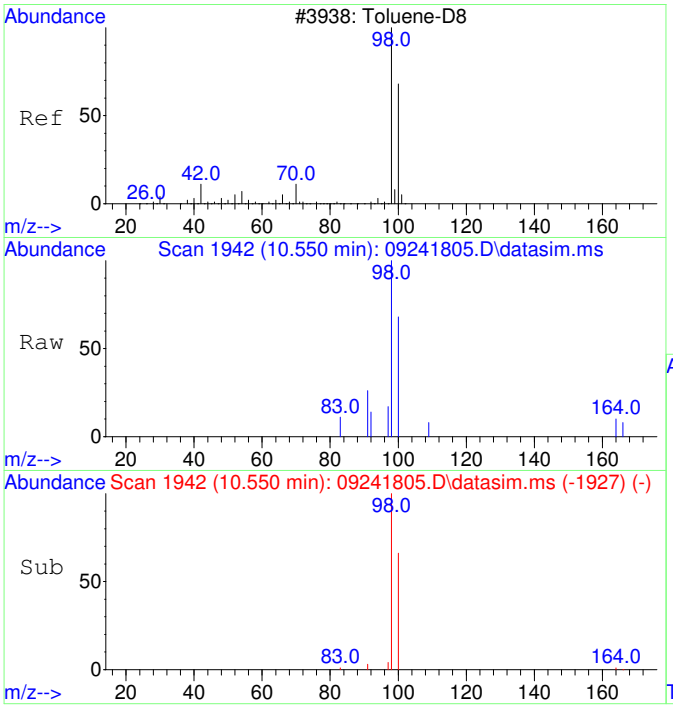


#11
Trichloroethene
Concen: 50.45 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. 0.005 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:130 Resp: 357

Ion	Ratio	Lower	Upper
130	100		
95	107.8	66.0	126.0
132	111.5	78.8	118.8
97	93.3	41.9	81.9#

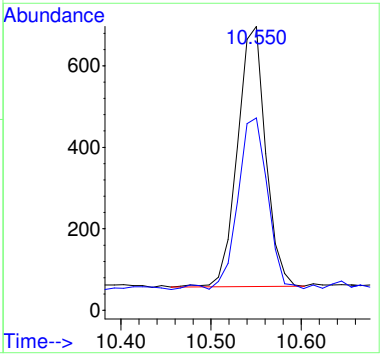


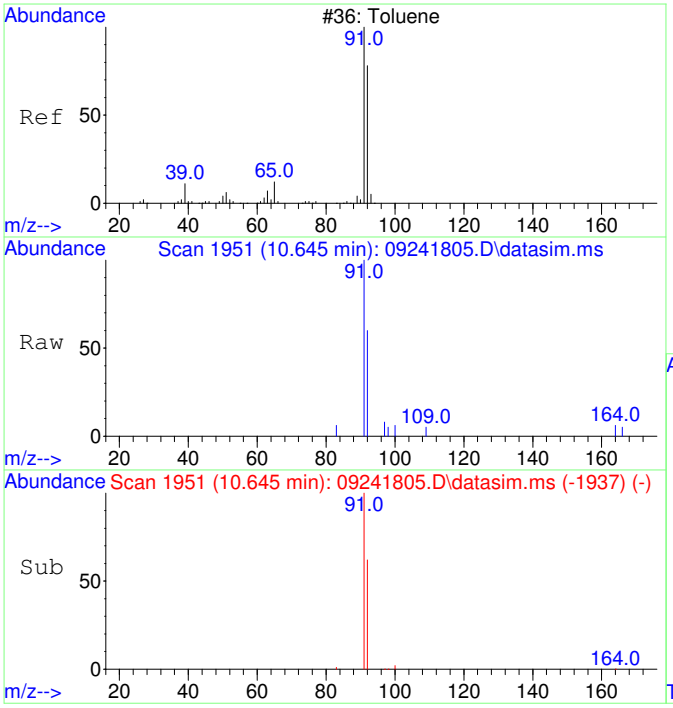


#12
Toluene-d8
Concen: 53.36 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 98 Resp: 1390

Ion	Ratio	Lower	Upper
98	100		
100	69.8	38.7	98.7

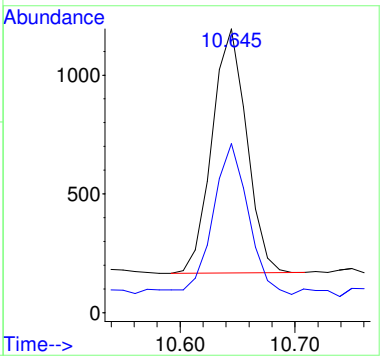


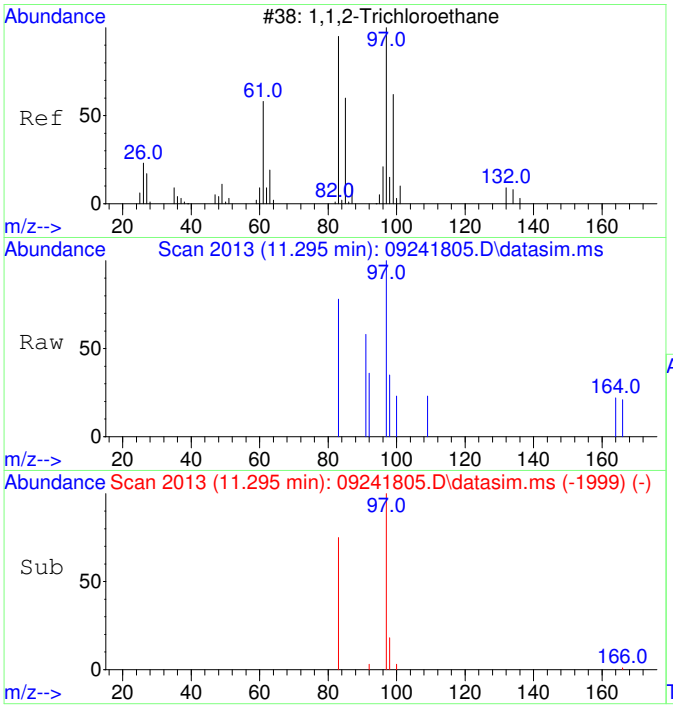


#13
Toluene
Concen: 61.70 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2155

Ion	Ratio	Lower	Upper
91	100		
92	63.6	30.0	90.0

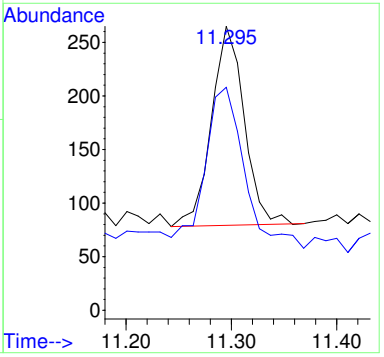


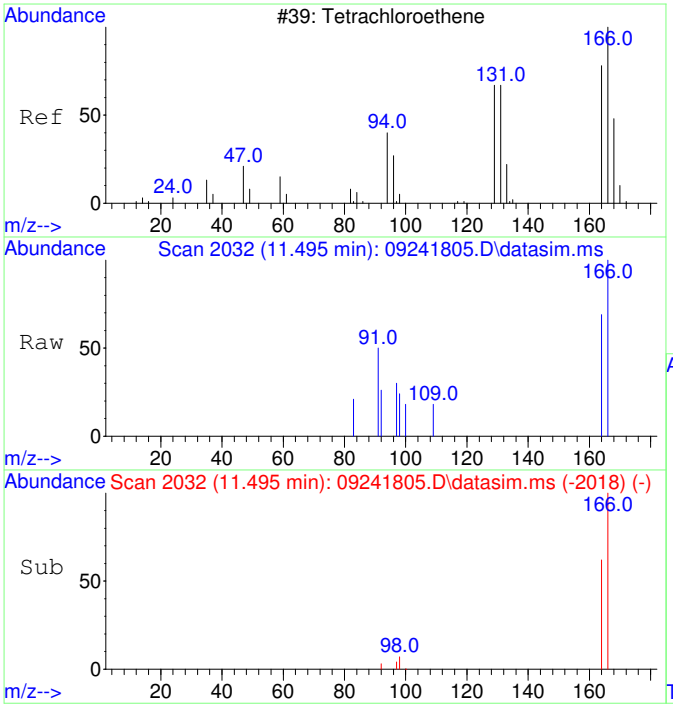


#14
1,1,2-Trichloroethane
Concen: 55.69 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
83	97.0	53.4	113.4

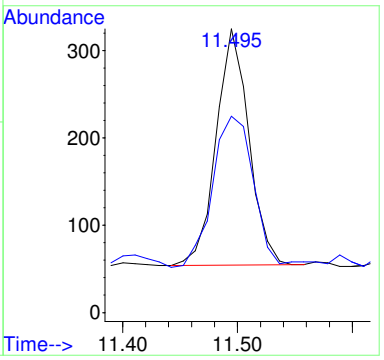


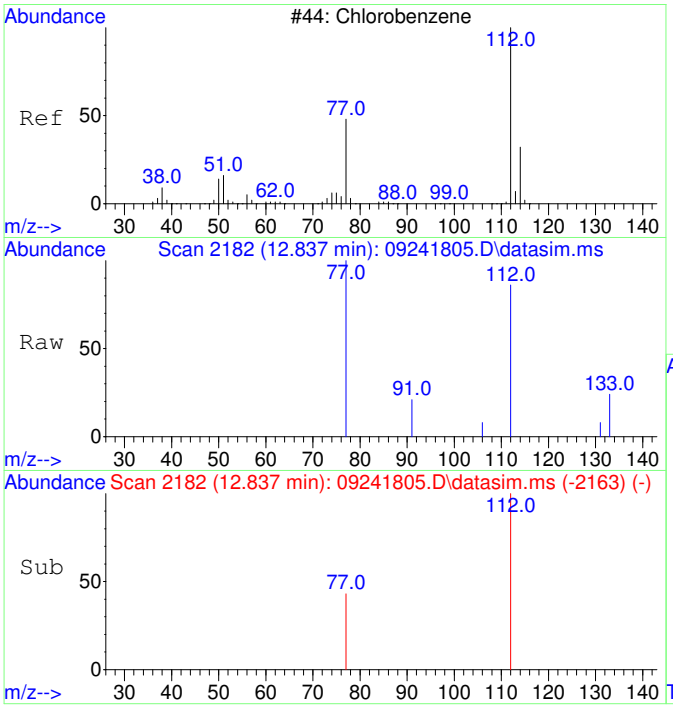


#15
Tetrachloroethene
Concen: 54.47 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:166 Resp: 536

Ion	Ratio	Lower	Upper
166	100		
164	79.9	47.8	107.8

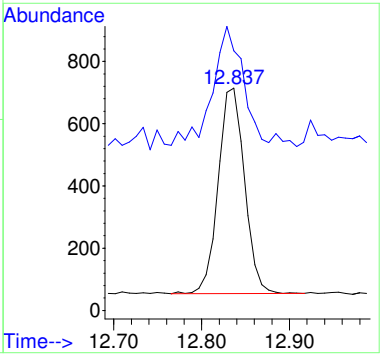


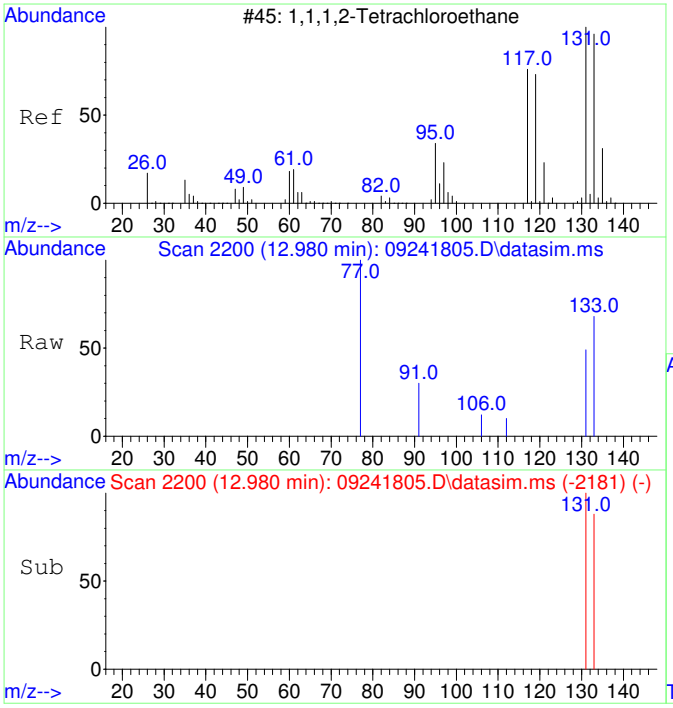


#16
Chlorobenzene
Concen: 54.96 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:112 Resp: 1370

Ion	Ratio	Lower	Upper
112	100		
77	68.2	28.1	88.1

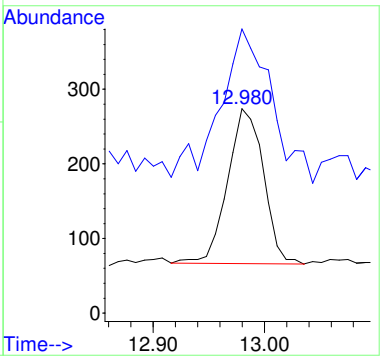


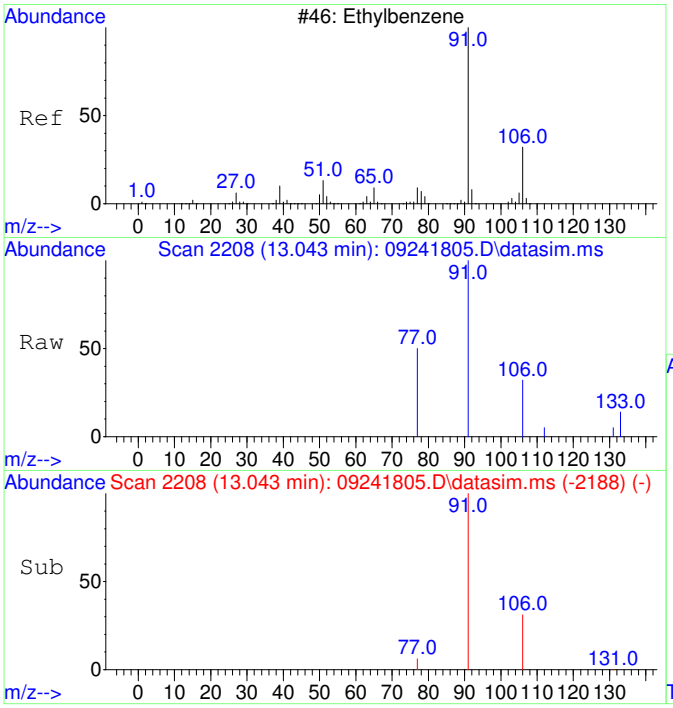


#17
1,1,1,2-Tetrachloroethane
Concen: 54.97 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:131 Resp: 465

Ion	Ratio	Lower	Upper
131	100		
133	145.4	66.2	126.2#

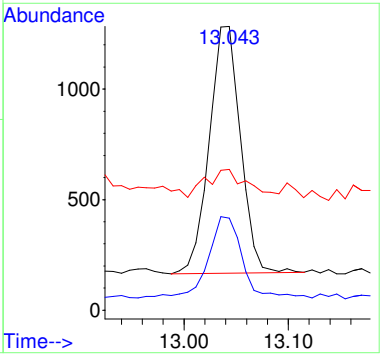


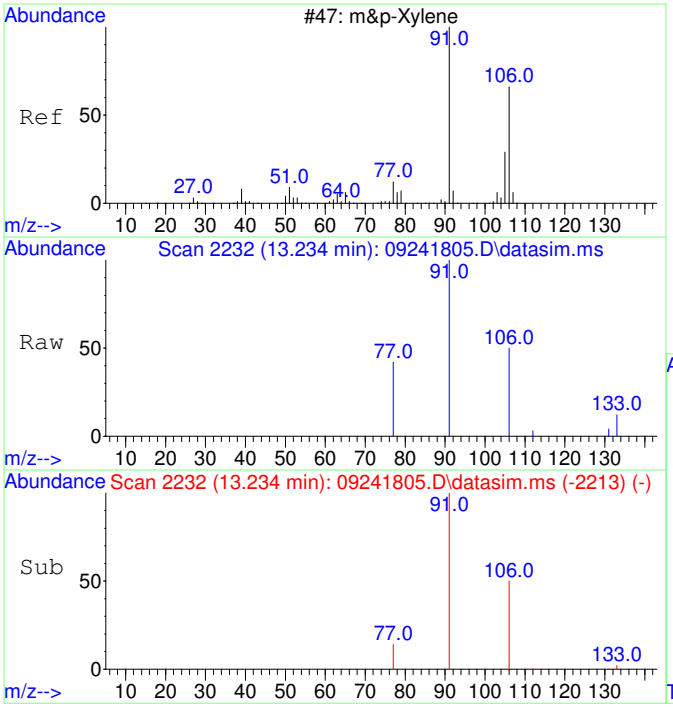


#18
Ethylbenzene
Concen: 55.31 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2318

Ion	Ratio	Lower	Upper
91	100		
106	35.7	2.8	62.8
77	15.4	0.0	38.6

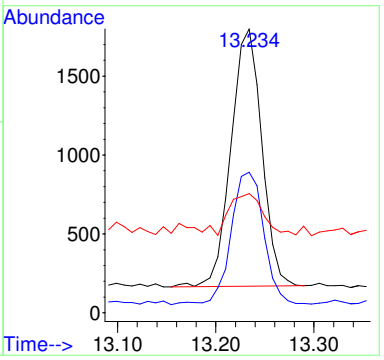


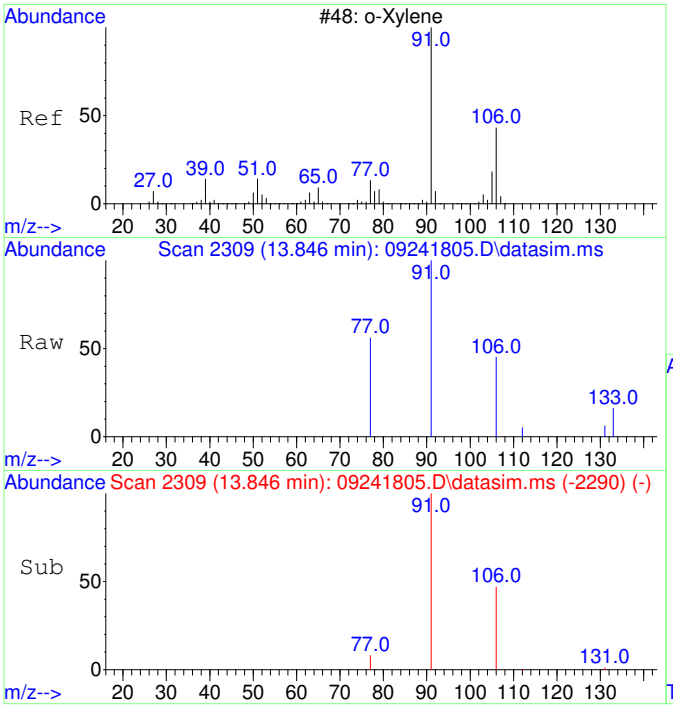


#19
m&p-Xylene
Concen: 109.37 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 3538

Ion	Ratio	Lower	Upper
91	100		
106	54.7	21.2	81.2
77	17.8	0.0	42.9

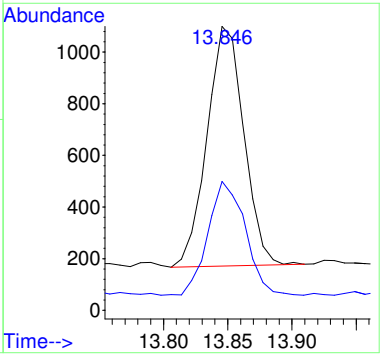


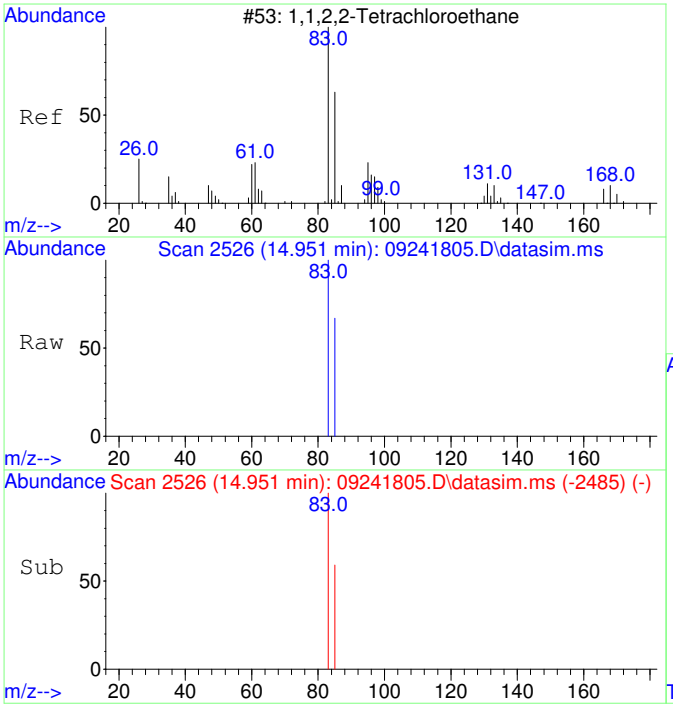


#20
o-Xylene
Concen: 54.06 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 1852

Ion	Ratio	Lower	Upper
91	100		
106	47.9	18.3	78.3

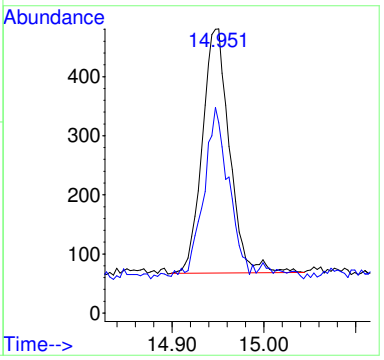


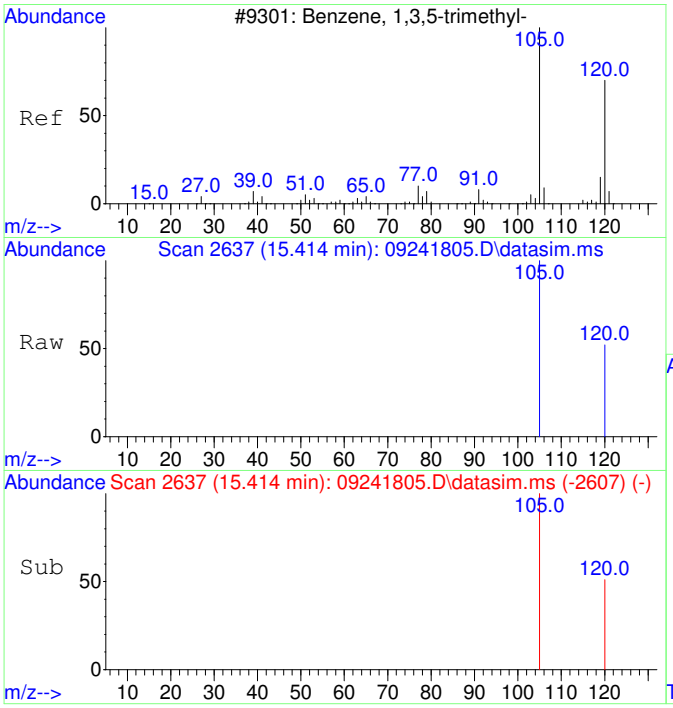


#21
1,1,2,2-Tetrachloroethane
Concen: 57.81 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 853

Ion	Ratio	Lower	Upper
83	100		
85	63.4	34.4	94.4

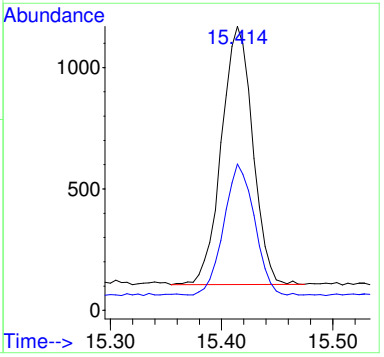


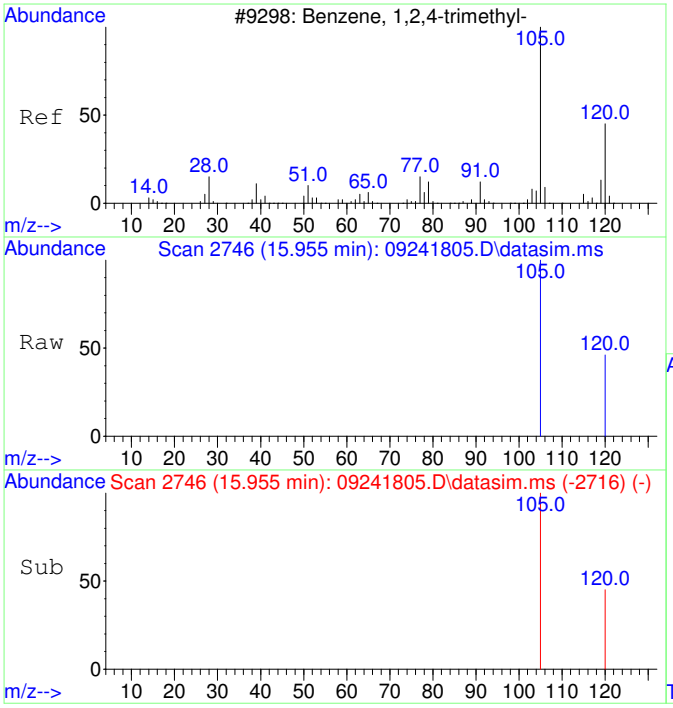


#22
1,3,5-Trimethylbenzene
Concen: 53.55 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 2076

Ion	Ratio	Lower	Upper
105	100		
120	49.8	19.1	79.1

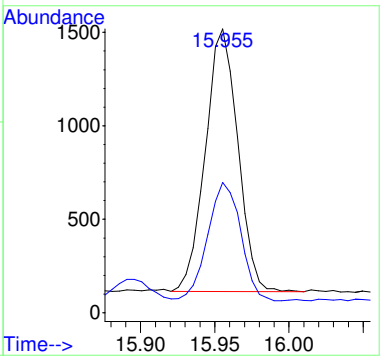


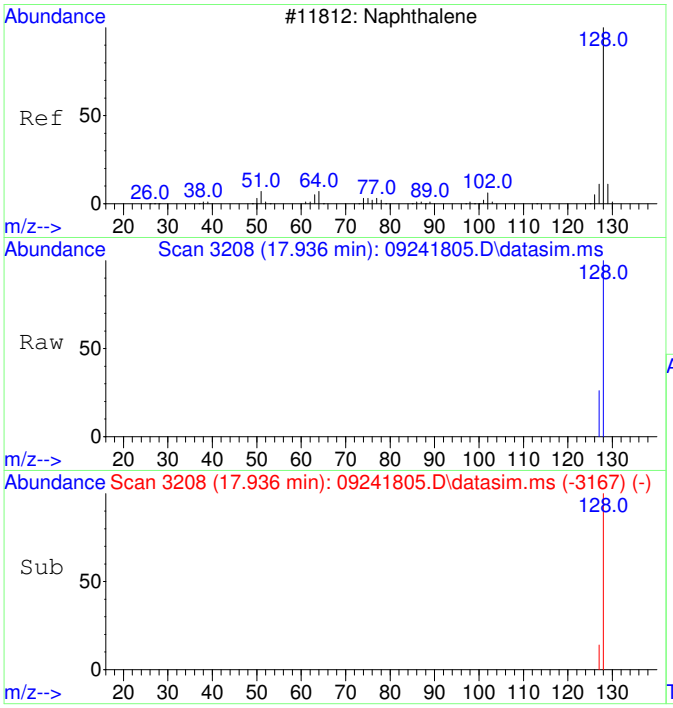


#23
1,2,4-Trimethylbenzene
Concen: 55.09 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 2136

Ion	Ratio	Lower	Upper
105	100		
120	44.9	15.5	75.5

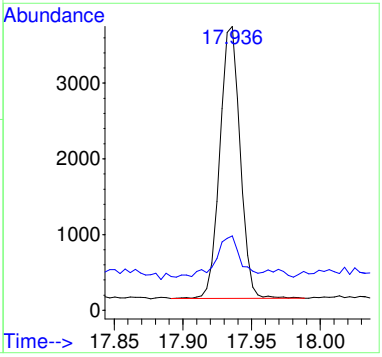


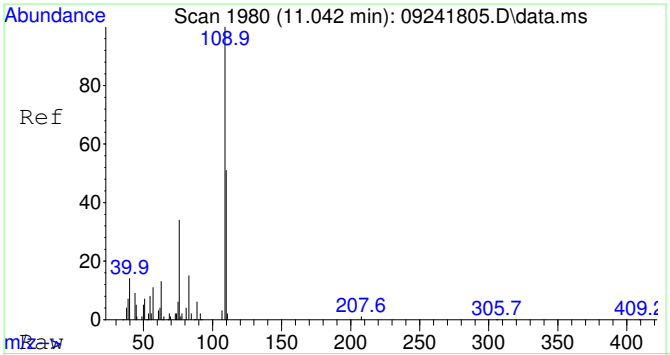


#24
Naphthalene
Concen: 57.66 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:128 Resp: 3669

Ion	Ratio	Lower	Upper
128	100		
127	14.9	0.0	42.5

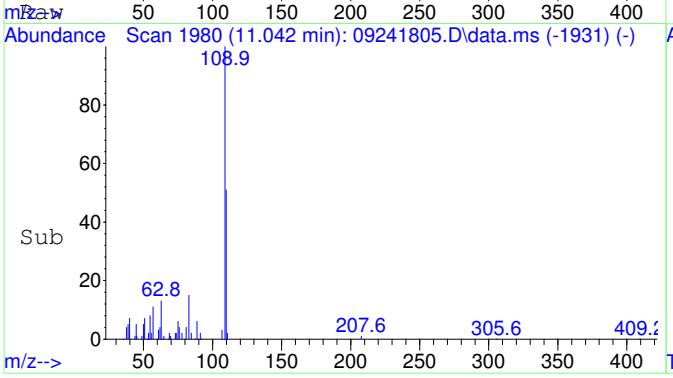


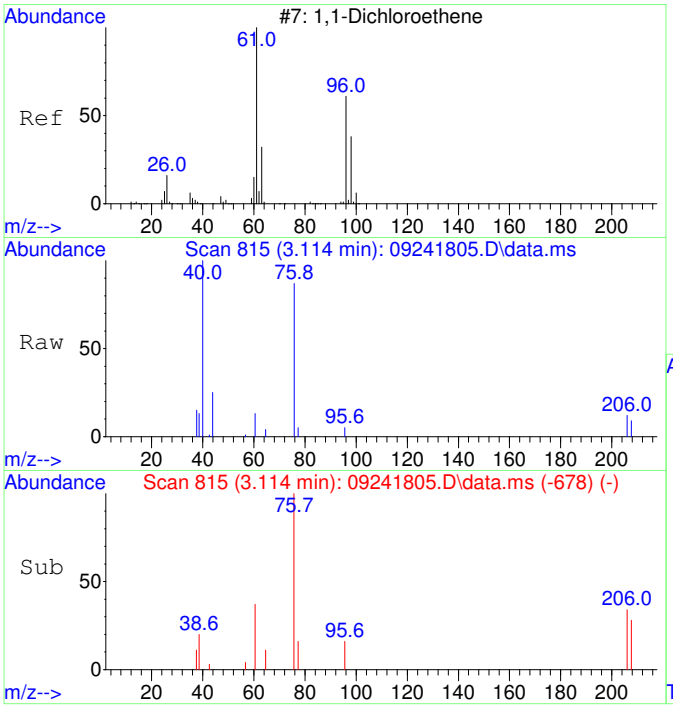


#25
2-Fluorotoluene SCAN
Concen: 4773.27 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:109 Resp: 89200

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	45.7

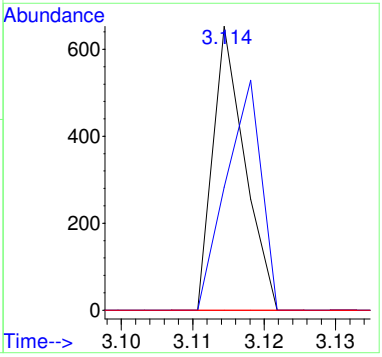


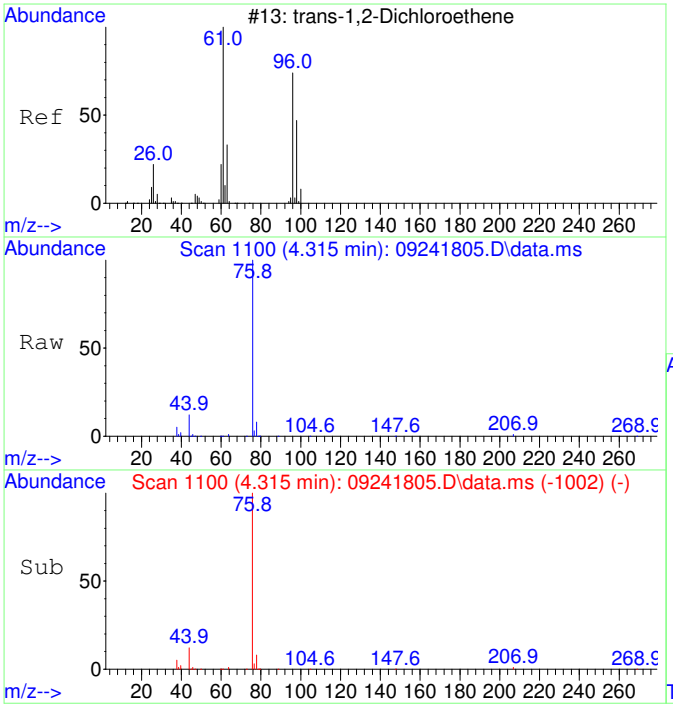


#26
1,1-Dichloroethene SCAN
Concen: 43.32 ug/L
RT: 3.114 min Scan# 815
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 202

Ion	Ratio	Lower	Upper
61	100		
96	89.6	23.8	83.8#
98	0.0	8.8	68.8#

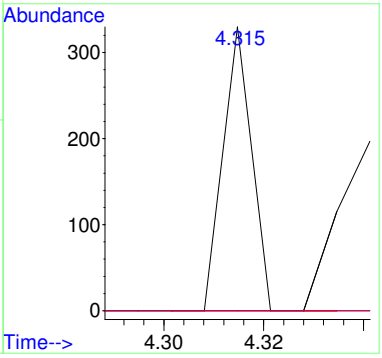


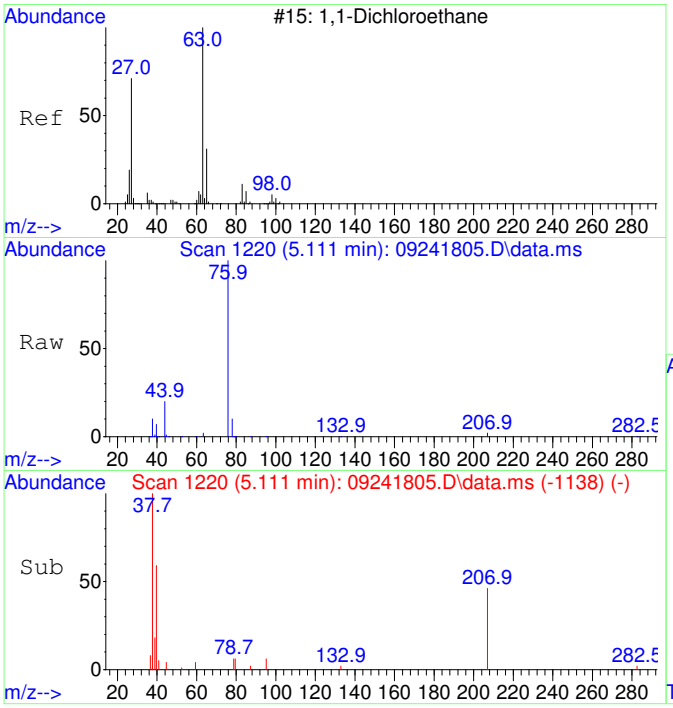


#27
trans-1,2-Dichloroethene SCAN
Concen: 24.13 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. 0.007 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 61 Resp: 131

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	0.0	12.7	72.7#

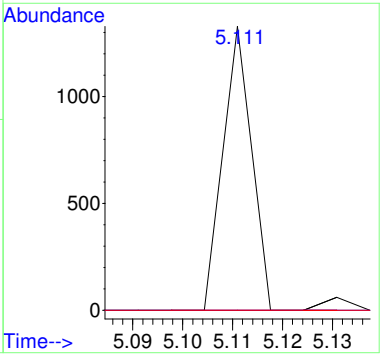


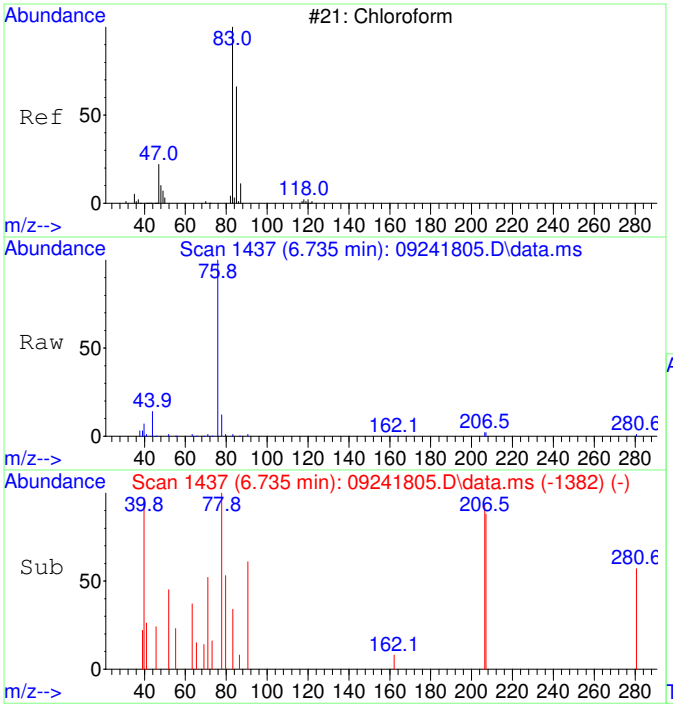


#28
1,1-Dichloroethane SCAN
Concen: 76.60 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.046 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 63 Resp: 529

Ion	Ratio	Lower	Upper
63	100		
65	0.0	7.5	67.5#
83	0.0	0.0	34.3

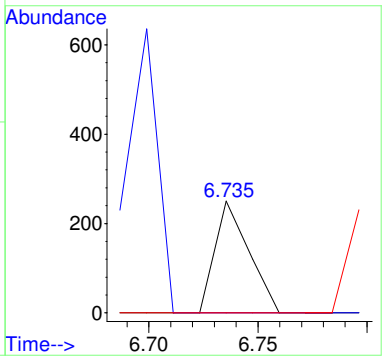


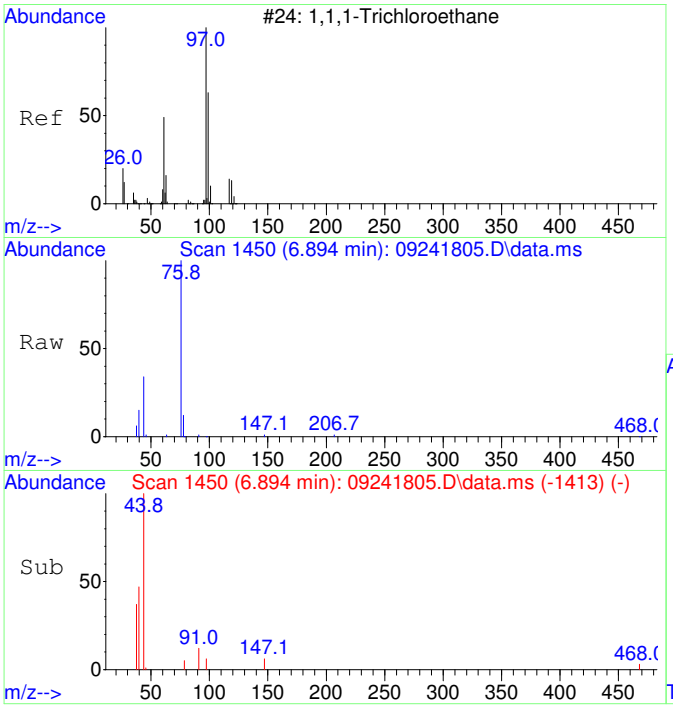


#30
Chloroform SCAN
Concen: 36.83 ug/L
RT: 6.735 min Scan# 1437
Delta R.T. 0.049 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 83 Resp: 270

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	0.0	0.0	57.9

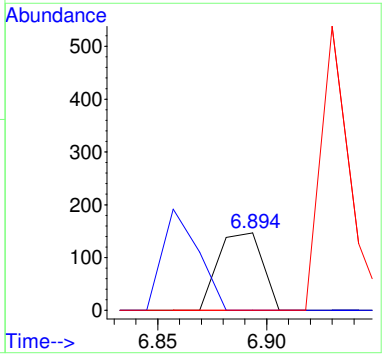


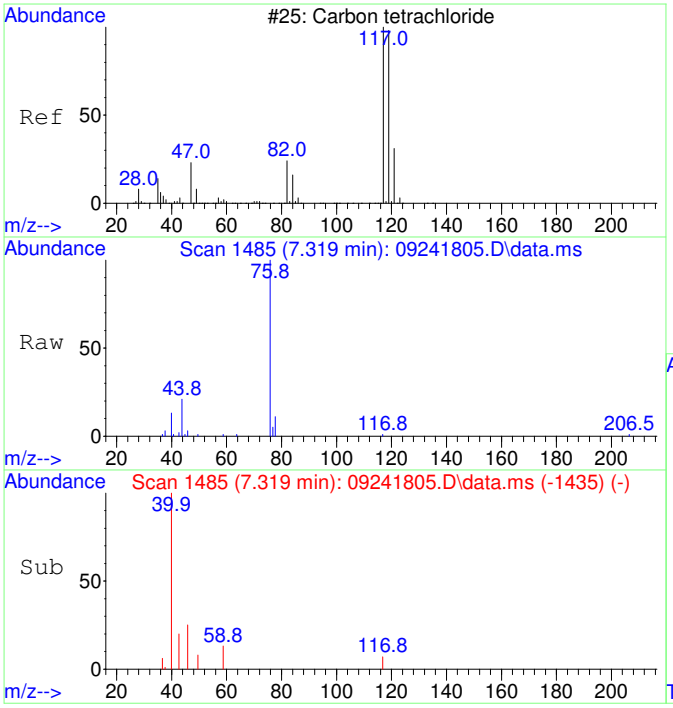


#31
1,1,1-Trichloroethane SCAN
Concen: 31.87 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.049 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 208

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	0.0	15.1	75.1#

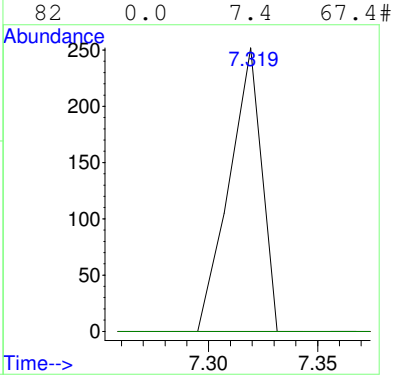


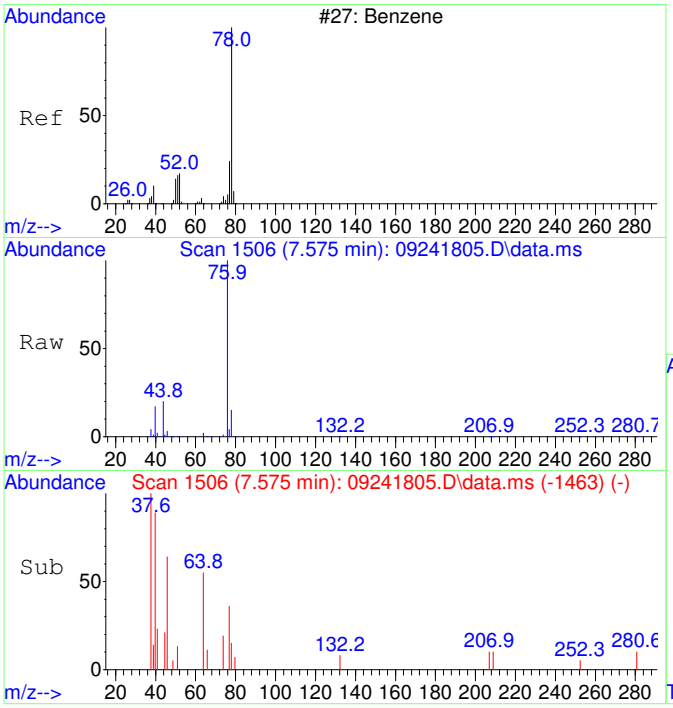


#32
Carbon tetrachloride SCAN
Concen: 40.59 ug/L
RT: 7.319 min Scan# 1485
Delta R.T. 0.109 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:117 Resp: 261

Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

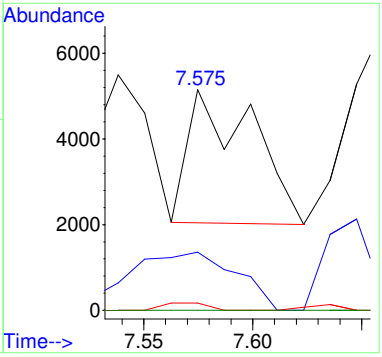


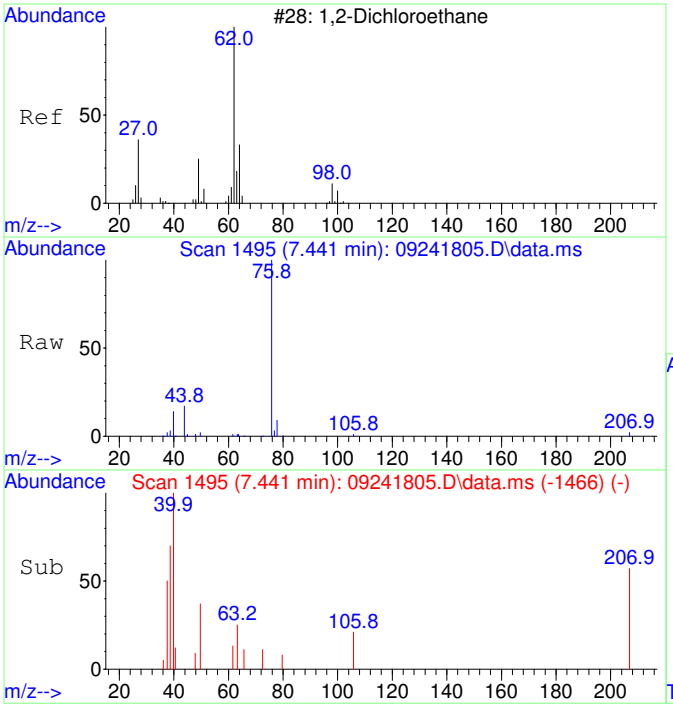


#33
Benzene SCAN
Concen: 329.82 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.024 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 78 Resp: 6419

Ion	Ratio	Lower	Upper
78	100		
77	73.5	3.0	63.0#
51	3.8	0.0	56.4
52	0.0	0.0	48.0

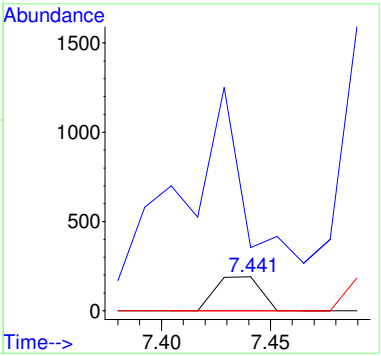


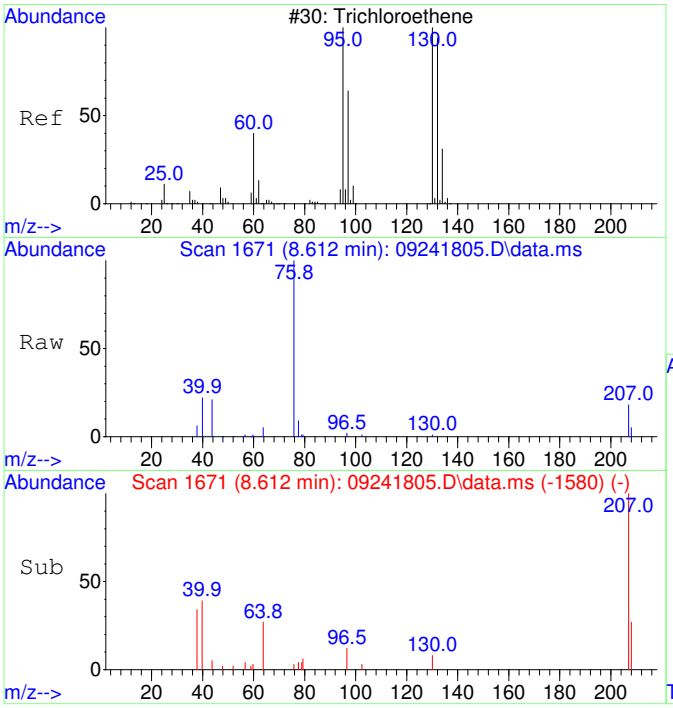


#34
1,2-Dichloroethane SCAN
Concen: 41.58 ug/L
RT: 7.441 min Scan# 1495
Delta R.T. -0.146 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 62 Resp: 276

Ion	Ratio	Lower	Upper
62	100		
64	680.1	1.2	61.2#
49	0.0	10.4	70.4#

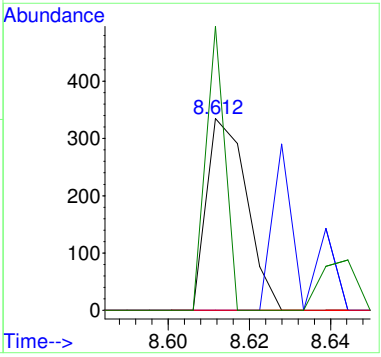


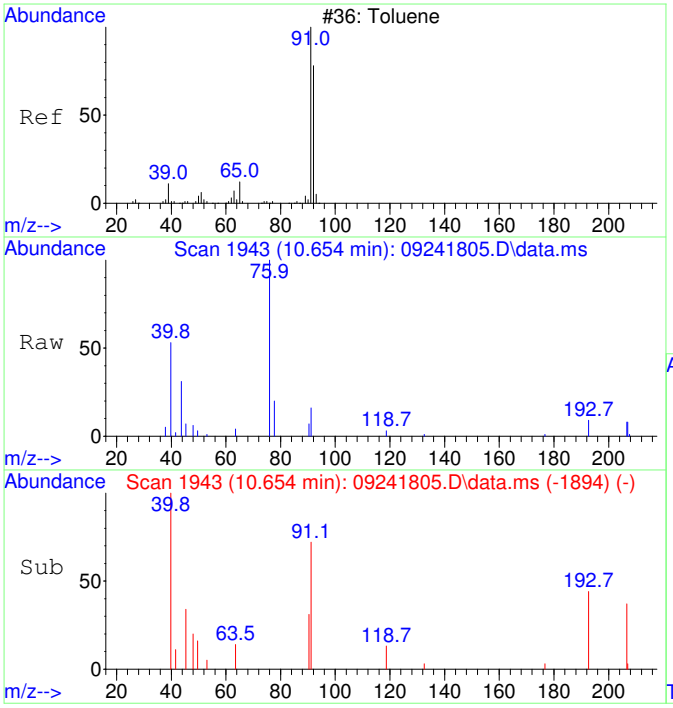


#35
Trichloroethene SCAN
Concen: 48.08 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:130 Resp: 229

Ion	Ratio	Lower	Upper
130	100		
95	0.0	70.5	130.5#
132	0.0	63.8	123.8#
97	70.7	34.8	94.8

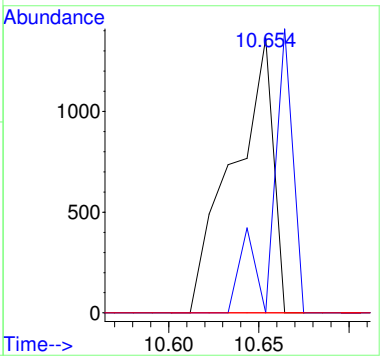


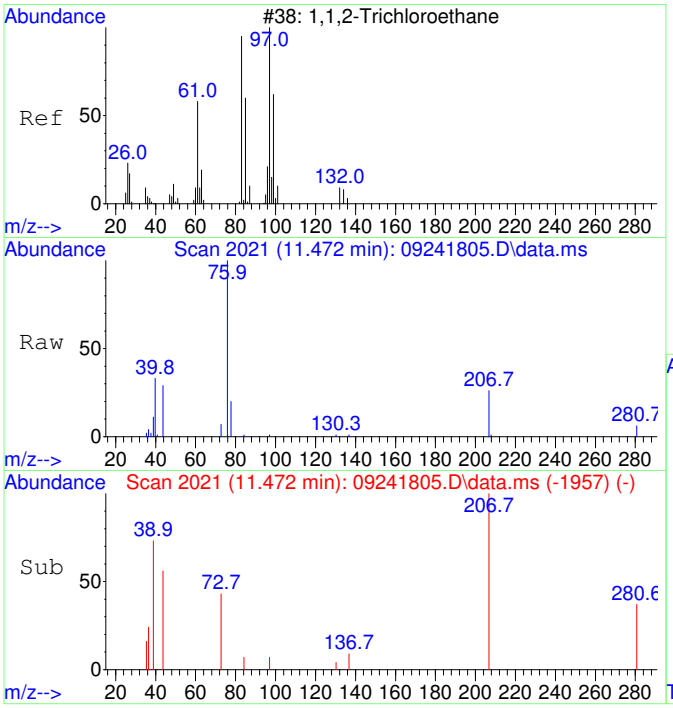


#37
Toluene SCAN
Concen: 98.01 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2115

Ion	Ratio	Lower	Upper
91	100		
92	54.6	26.6	86.6
65	0.0	0.0	42.3

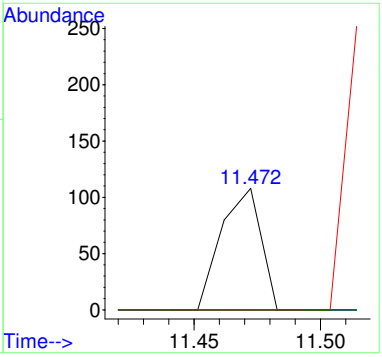


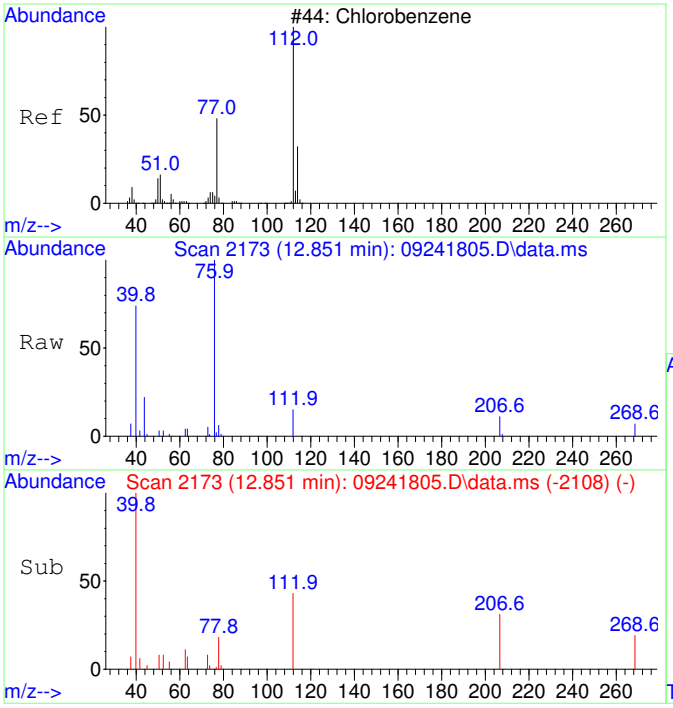


#38
1,1,2-Trichloroethane SCAN
Concen: 28.54 ug/L
RT: 11.472 min Scan# 2021
Delta R.T. 0.168 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 97 Resp: 118

Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

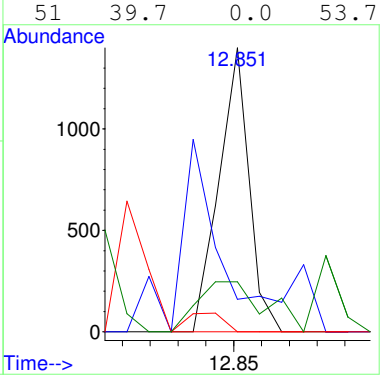


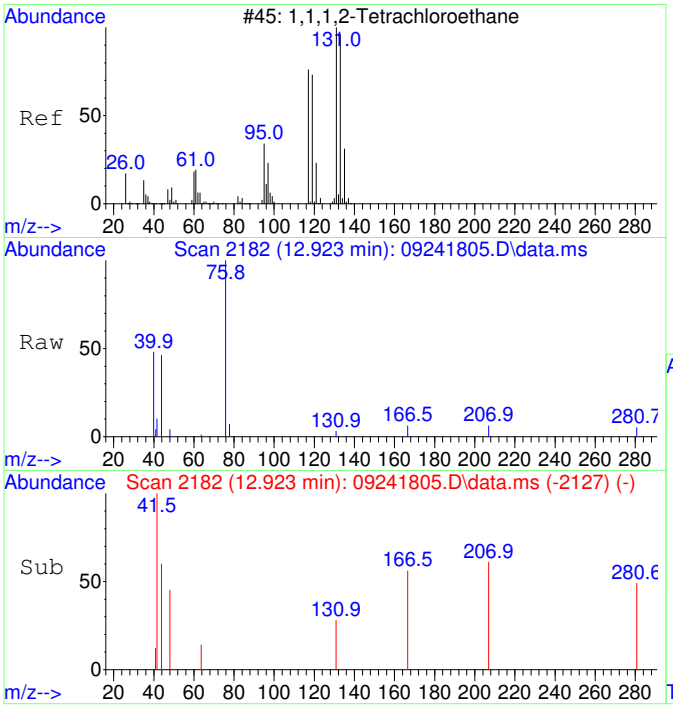


#40
Chlorobenzene SCAN
Concen: 80.67 ug/L
RT: 12.851 min Scan# 2173
Delta R.T. 0.016 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:112 Resp: 1056

Ion	Ratio	Lower	Upper
112	100		
77	110.6	28.4	88.4#
114	0.0	0.0	59.5
51	39.7	0.0	53.7

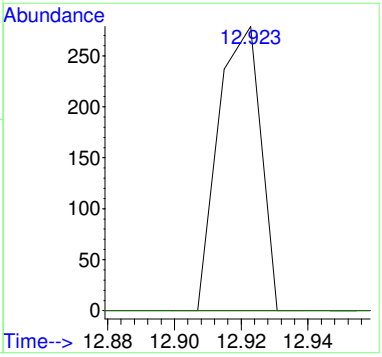


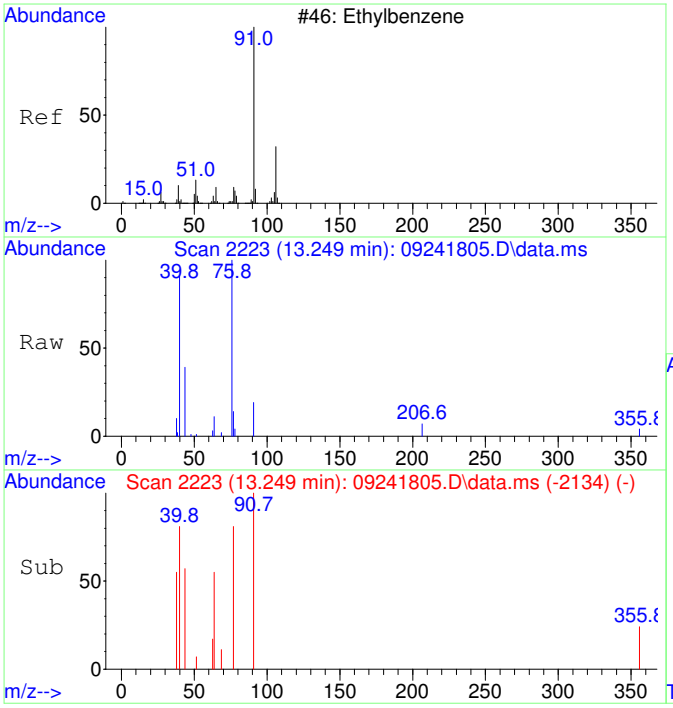


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 52.65 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. -0.064 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:131 Resp: 246

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	0.0	37.9	97.9#
117	0.0	28.2	88.2#

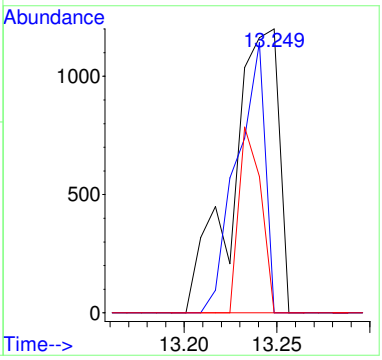


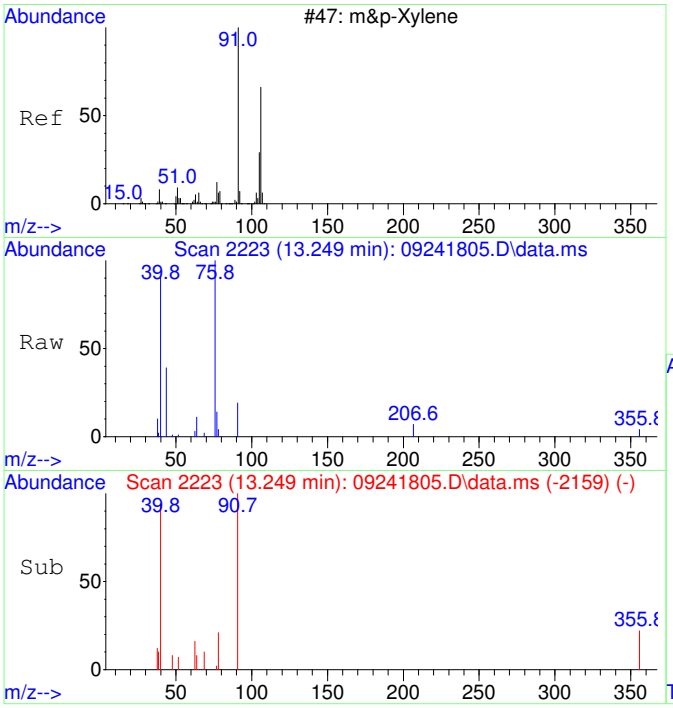


#42
Ethylbenzene SCAN
Concen: 83.16 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.207 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2086

Ion	Ratio	Lower	Upper
91	100		
106	58.2	3.2	63.2
51	31.2	0.0	40.1

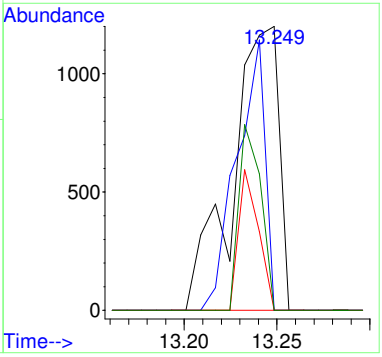


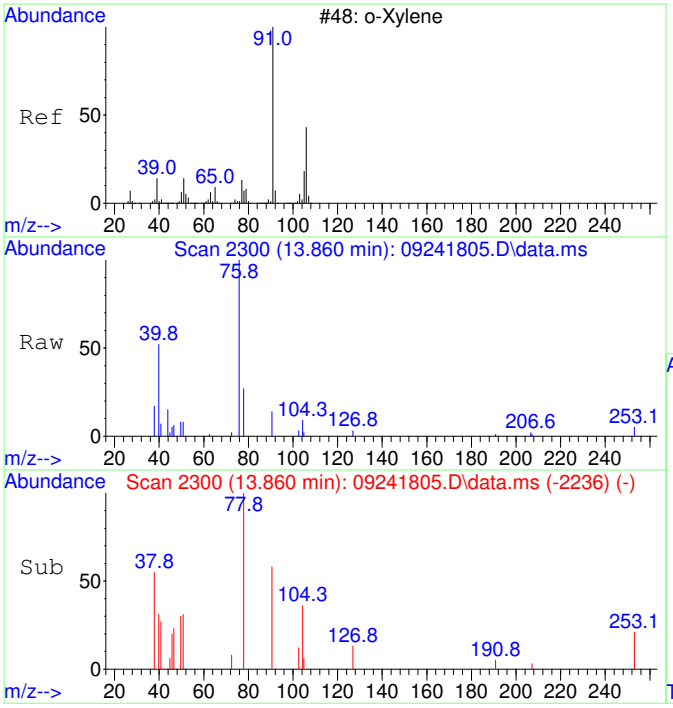


#43
m&p-Xylene SCAN
Concen: 59.91 ug/L
RT: 13.249 min Scan# 2223
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 2086

Ion	Ratio	Lower	Upper
91	100		
106	58.2	20.1	80.1
105	21.2	0.0	51.1
51	31.2	0.0	40.7

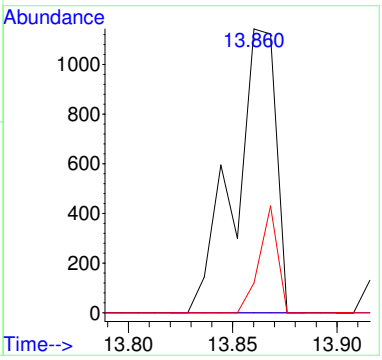


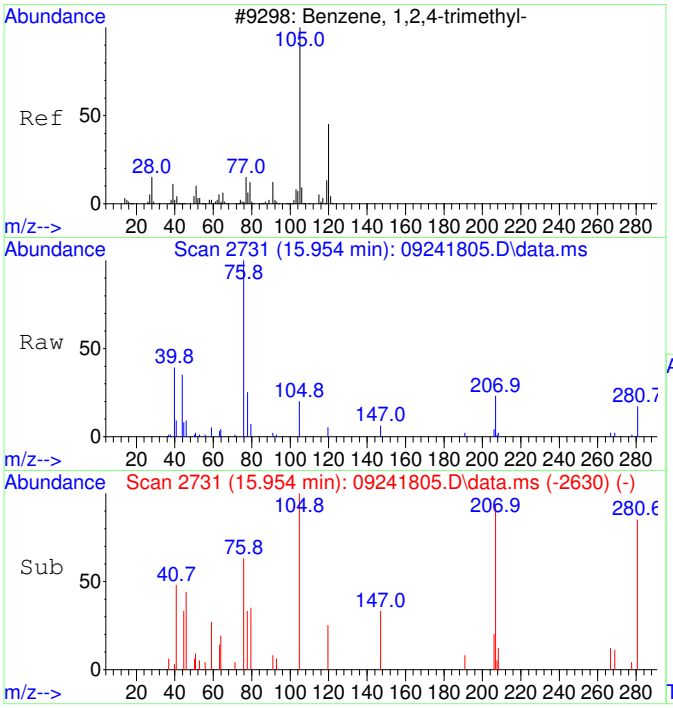


#44
o-Xylene SCAN
Concen: 79.48 ug/L
RT: 13.860 min Scan# 2300
Delta R.T. 0.008 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion: 91 Resp: 1575

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	16.6	0.0	55.2

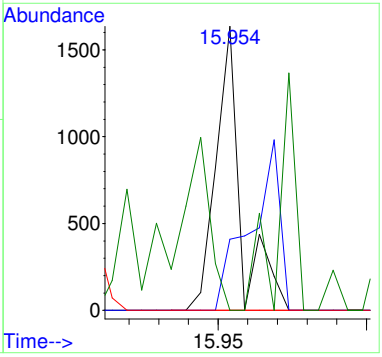


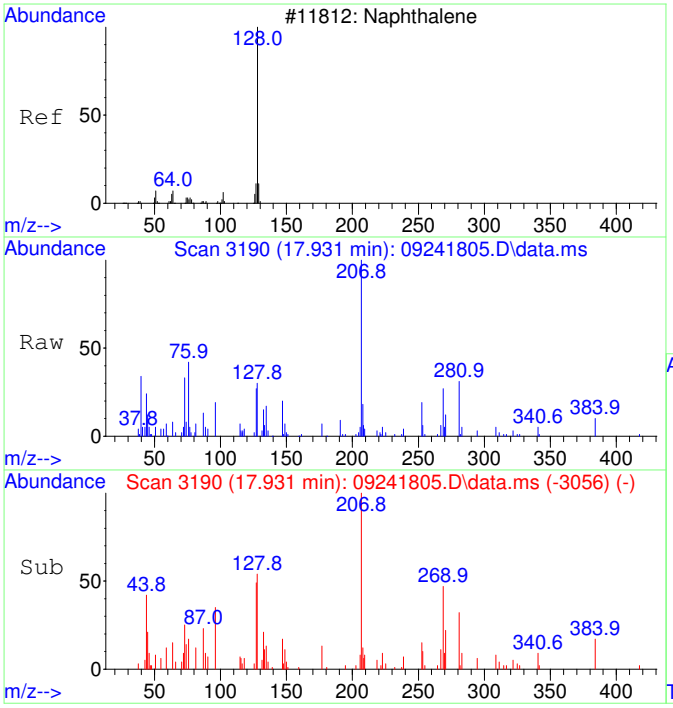


#47
1,2,4-Trimethylbenzene SCAN
Concen: 47.28 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.000 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:105 Resp: 952

Ion	Ratio	Lower	Upper
105	100		
120	0.0	15.4	75.4#
119	0.0	0.0	41.7
77	43.5	0.0	42.0#

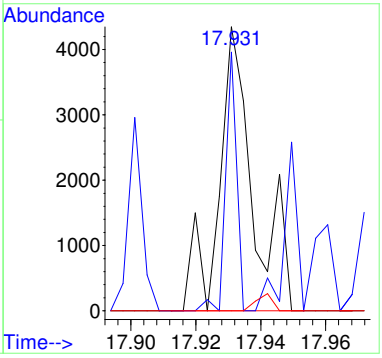




#48
Naphthalene SCAN
Concen: 111.90 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. -0.004 min
Lab File: 09241805.D
Acq: 24 Sep 2018 13:50

Tgt Ion:128 Resp: 3215

Ion	Ratio	Lower	Upper
128	100		
127	28.6	0.0	43.9
129	0.0	0.0	40.5



SECOND SOURCE CALIBRATION CHECK

Radiello D1

Laboratory:	EPA Region 9 Laboratory	SDG:	18260B
Client:	California Site Cleanup Section 3	Project:	MEW OU3 2018 Air and Sewer Gas Investigation
Instrument ID:	AG5975CV	Calibration:	1806010
Lab File ID:	06121809.D	Calibration Date:	06/15/18 15:37
Sequence:	S18F027	Injection Date:	06/12/18
Lab Sample ID:	S18F027-SCV1	Injection Time:	16:06

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	SCV	ICAL	SCV	MIN (#)	SCV	LIMIT (#)
1,1-Dichloroethene	L	5000	4790	0.2095372	0.2005896		-4.3	30
trans-1,2-Dichloroethene	L	5000	4620	0.2235784	0.2065738		-7.6	30
1,1-Dichloroethane	L	5000	4540	0.2782774	0.25257		-9.2	30
cis-1,2-Dichloroethene	L	5000	4330	0.2745225	0.2379687		-13.3	30
Chloroform	L	5000	4390	0.2955945	0.2597007		-12.1	30
1,1,1-Trichloroethane	L	5000	4530	0.2909498	0.2635179		-9.4	30
Carbon tetrachloride	L	5000	4480	0.2756008	0.2469638		-10.4	30
1,2-Dichloroethane	L	5000	4500	0.258728	0.232627		-10.1	30
Trichloroethene	L	5000	4600	0.2206423	0.2029077		-8.0	30
Toluene	L	5000	4730	1.088921	1.030097		-5.4	30
1,1,2-Trichloroethane	L	5000	4850	0.2250693	0.2182272		-3.0	30
Tetrachloroethene	L	5000	5100	0.3067977	0.3127016		1.9	30
Chlorobenzene	L	5000	5300	0.7771945	0.8240778		6.0	30
1,1,1,2-Tetrachloroethane	L	5000	5320	0.2637532	0.2807524		6.4	30
Ethylbenzene	L	5000	5310	1.306759	1.386477		6.1	30
m&p-Xylene	L	10000	10800	1.008571	1.086487		7.7	30
o-Xylene	L	5000	5510	1.06816	1.176363		10.1	30
1,1,2,2-Tetrachloroethane	L	5000	5450	0.4600169	0.5011086		8.9	30
1,3,5-Trimethylbenzene	L	5000	5670	1.20859	1.371221		13.5	30
1,2,4-Trimethylbenzene	L	5000	5730	1.208945	1.385053		14.6	30
Toluene-d8	L	5000	5050	0.8121513	0.8197566		0.9	30

SCV REPORT

Instrument Name: AG5975C
Sample Name: S18F027-SCV1
Misc Info: 1824014 5 mg/L
Date Acquired: 6/12/2018
QLast Update: Thu Jun 14 17:09:21 2018
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	11.033	5000	5000.00	100%	70	130	pass
2)	1,1-Dichloroethene	3.104	5000	4786.49	96%	70	130	pass
3)	trans-1,2-Dichloroethene	4.323	5000	4619.72	92%	70	130	pass
4)	1,1-Dichloroethane	5.079	5000	4538.10	91%	70	130	pass
5)	cis-1,2-Dichloroethene	6.108	5000	4334.23	87%	70	130	pass
6)	Chloroform	6.688	5000	4392.85	88%	70	130	pass
7)	1,1,1-Trichloroethane	6.944	5000	4528.58	91%	70	130	pass
8)	Carbon tetrachloride	7.223	5000	4480.46	90%	70	130	pass
9)	Benzene	7.552	5000	4440.54	89%	70	130	pass
10)	1,2-Dichloroethane	7.588	5000	4495.59	90%	70	130	pass
11)	Trichloroethene	8.629	5000	4598.11	92%	70	130	pass
12)	Toluene-d8	10.550	5000	5046.82	101%	70	130	pass
13)	Toluene	10.645	5000	4729.90	95%	70	130	pass
14)	1,1,2-Trichloroethane	11.295	5000	4848.00	97%	70	130	pass
15)	Tetrachloroethene	11.495	5000	5096.22	102%	70	130	pass
16)	Chlorobenzene	12.837	5000	5301.62	106%	70	130	pass
17)	1,1,1,2-Tetrachloroethane	12.988	5000	5322.26	106%	70	130	pass
18)	Ethylbenzene	13.043	5000	5305.02	106%	70	130	pass
19)	m&p-Xylene	13.234	10000	10772.54	108%	70	130	pass
20)	o-Xylene	13.854	5000	5506.49	110%	70	130	pass
21)	1,1,2,2-Tetrachloroethane	14.951	5000	5446.63	109%	70	130	pass
22)	1,3,5-Trimethylbenzene	15.414	5000	5672.81	113%	70	130	pass
23)	1,2,4-Trimethylbenzene	15.955	5000	5728.36	115%	70	130	pass
24)	Naphthalene	17.936	5000	6303.89	126%	70	130	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121809.D
Acq On : 12 Jun 2018 16:06
InstName : AG5975C
Operator : RH
Sample : S18F027-SCV1
Misc : 1824014 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 14 17:13:59 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

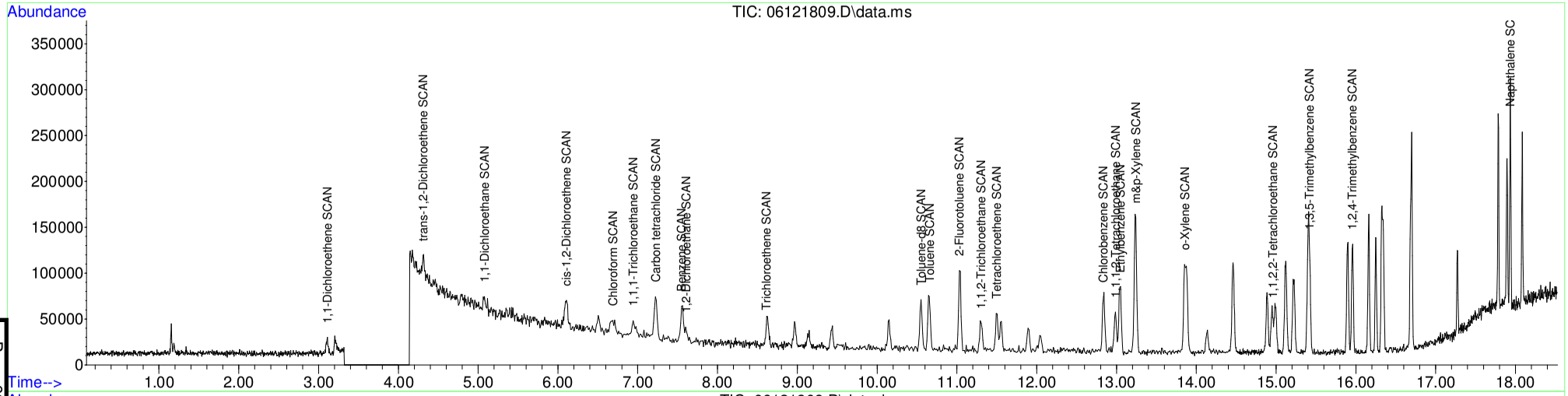
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	79376	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	65069	5046.82 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.94%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	15922	4786.49 ug/L	99
3] trans-1,2-Dichloroethene	4.309	61	16397	4619.72 ug/L	100
4] 1,1-Dichloroethane	5.072	63	20048	4538.10 ug/L	99
5] cis-1,2-Dichloroethene	6.108	61	18889	4334.23 ug/L	99
6] Chloroform	6.688	83	20614	4392.85 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	20917	4528.58 ug/L	100
8] Carbon tetrachloride	7.211	117	19603	4480.46 ug/L	99
9] Benzene	7.552	78	56593	4440.54 ug/L	99
10] 1,2-Dichloroethane	7.588	62	18465	4495.59 ug/L	99
11] Trichloroethene	8.624	130	16106	4598.11 ug/L	100
13] Toluene	10.645	91	81765	4729.90 ug/L	99
14] 1,1,2-Trichloroethane	11.295	97	17322	4848.00 ug/L	99
15] Tetrachloroethene	11.495	166	24821	5096.22 ug/L	99
16] Chlorobenzene	12.837	112	65412	5301.62 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.988	131	22285	5322.26 ug/L	100
18] Ethylbenzene	13.043	91	110053	5305.02 ug/L	100
19] m&p-Xylene	13.234	91	172482	10772.54 ug/L	100
20] o-Xylene	13.854	91	93375	5506.49 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.951	83	39776	5446.63 ug/L	100
22] 1,3,5-Trimethylbenzene	15.414	105	108842	5672.81 ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	109940	5728.36 ug/L	100
24] Naphthalene	17.937	128	198549	6303.89 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	48733	5268.76 ug/L	94
26) 1,1-Dichloroethene SCAN	3.107	61	1954	846.60 ug/L #	1
27) trans-1,2-Dichloroethe...	4.308	61	11120	4138.42 ug/L	93
28) 1,1-Dichloroethane SCAN	5.078	63	13731	4016.86 ug/L	94
29) cis-1,2-Dichloroethene...	6.106	61	14540	4918.22 ug/L	91
30) Chloroform SCAN	6.687	83	17611	4853.20 ug/L	84
31) 1,1,1-Trichloroethane ...	6.942	97	12574	3892.58 ug/L	77
32) Carbon tetrachloride SCAN	7.222	117	13422	4216.98 ug/L	94
33) Benzene SCAN	7.550	78	44867	4657.72 ug/L	92
34) 1,2-Dichloroethane SCAN	7.599	62	11933	3632.43 ug/L	83
35) Trichloroethene SCAN	8.612	130	9596	4070.89 ug/L #	72
36) Toluene-d8 SCAN	10.549	98	38306	4581.27 ug/L	96
37) Toluene SCAN	10.654	91	56903	5327.55 ug/L	91
38) 1,1,2-Trichloroethane ...	11.305	97	9628	4704.17 ug/L	84
39) Tetrachloroethene SCAN	11.493	166	11857	5058.90 ug/L	78
40) Chlorobenzene SCAN	12.835	112	39717	6129.87 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.986	131	13294	5748.17 ug/L	87
42) Ethylbenzene SCAN	13.042	91	67332	5423.31 ug/L	96
43) m&p-Xylene SCAN	13.241	91	107192	6220.10 ug/L	98
44) o-Xylene SCAN	13.852	91	55261	5633.99 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.953	83	29445	6333.90 ug/L	90
46) 1,3,5-Trimethylbenzene...	15.418	105	65105	6694.45 ug/L	92
47) 1,2,4-Trimethylbenzene...	15.959	105	64656	6487.13 ug/L	97
48) Naphthalene SCAN	17.936	128	102686	7220.90 ug/L	95

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\061218\
Data File : 06121809.D
Acq On : 12 Jun 2018 16:06
InstName : AG5975C
Operator : RH
Sample : S18F027-SCV1
Misc : 1824014 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 14 17:13:59 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\061218.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration



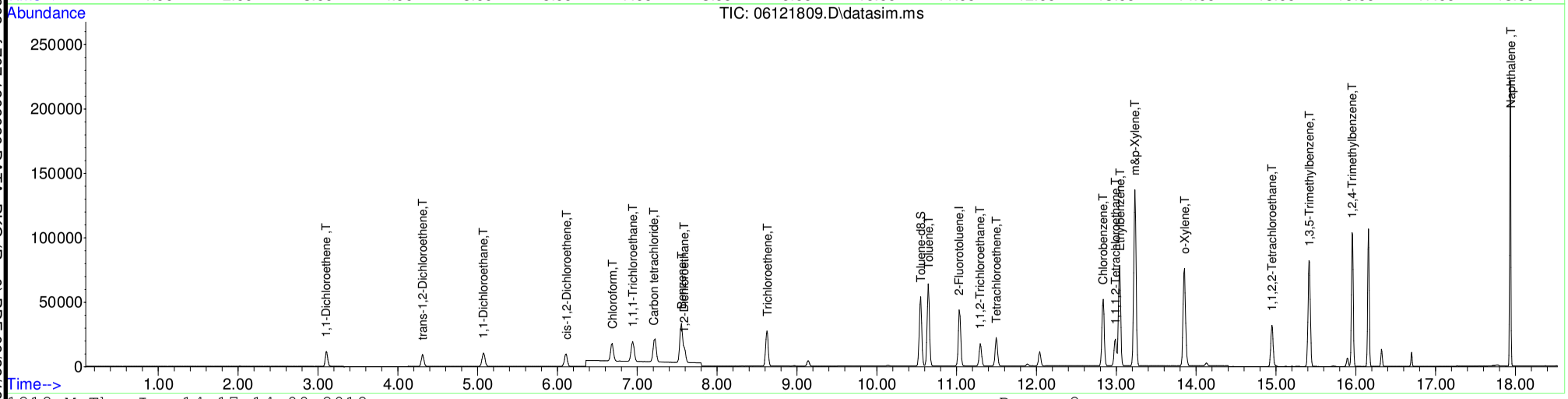


Table of Contents

Analytical Standard Record

EPA Region 9 Laboratory

1639096

Description:	2-Fluorotlouene	**Expires:**	12/31/29
Standard Type:	Other Solution	**Prepared:**	09/22/16
Solvent:	na	**Prepared By:**	** Vendor **
Final Volume (mls):	100	**Department:**	Volatiles
Vials:	1	**Last Edit:**	09/22/16 11:46 by RH
Vendor:		**Lot Numbe**	STBF8552V

Aldrich; Cat # F15323-100G, bar code #AU008468

Analyte	CAS Number	Concentration (ppm)
2-Fluorotoluene	95-52-3	1000000

SIGMA-ALDRICH®

3050 Spruce Street, Saint Louis, MO 63103 USA
Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:	2-FLUOROTOLUENE
	>= 99 %
Product Number:	F15323
Batch Number:	STBF8552V
Brand:	Aldrich
CAS Number:	95-52-3
Formula:	$CH_3C_6H_4F$
Formula Weight:	110.13
Quality Release Date:	14 SEP 2015

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS TO VERY FAINT YELLOW	VERY FAINT YELLOW
APPEARANCE (FORM)	LIQUID	LIQUID
COLOR (IN APHA)	≤ 50 APHA	40 APHA
PURITY (GC AREA %)	≥ 99.0 %	99.9 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS

Dr. Claudia Geitner
Manager Quality Control
Steinheim, Germany

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Analytical Standard Record

EPA Region 9 Laboratory

1639097

Description:	Toluene-d8	**Expires:**	05/31/19
Standard Type:	Other Solution	**Prepared:**	09/22/16
Solvent:	na	**Prepared By:**	Bob Hopeman
Final Volume (mls):	0.1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	09/22/16 11:51 by RH
Vendor:	Supelco	**Lot Numbe**	LC20793V

Aldrich; Cat # 44-2809, bar code #AU008467

Analyte	CAS Number	Concentration (ppm)
Toluene-d8	2037-26-5	1000000

Certificate of Analysis

DESCRIPTION: Toluene-d8

MFG. DATE: May 2016

CATALOG NO.: 442809 (1)

LOT NO.: LC20793V

EXP. DATE: May 2019

CAS NUMBER: 2037-26-5

MOLECULAR FORMULA: C7D8

MOLECULAR WEIGHT: 100.21

PHYSICAL PROPERTIES	ASSAY	
FTIR	Matches: SUPELCO	Lib. No.: USER1 37
GC - Mass Spec	Matches: NIST	Lib. No.: 3888
Purity (2)	98.6%	

(1) This product is packaged from R471390 Lot number LC11825.

(2) Determined by GC-FID unless otherwise noted.

Duane Funk

Duane Funk
Quality Manager

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Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Analytical Standard Record

EPA Region 9 Laboratory

1708045

Description:	VOA BFB TUNING CPD	**Expires:**	01/31/22
Standard Type:	Other Solution	**Prepared:**	02/21/17
Solvent:	Solvent Lot #	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	02/21/17 14:15 by YNB
Vendor:	Restek	**Lot Numbe**	A0122289

RESTEK Cat No. 30003, , bar code# AU008923

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene [2C]	460-00-4	5000
4-Bromofluorobenzene	460-00-4	5000

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED ISO Guide 34 Accredited Reference Material Producer Certificate #3222.04

ilac-MRA

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30003 **Lot No.:** A0122289

Description : VOA Tuning Compound Mix

VOA Tuning Compound Mix 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	5,002.0 µg/mL	+/- 29.3545 µg/mL +/- 280.4856 µg/mL +/- 287.0473 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

	AU008920	1708042
VOC	21	43
Extr	22	44
	23	45
	24	46

EDB/DBCP

Analytical Standard Record

EPA Region 9 Laboratory

1740014

Description:	VOA BFB tuning mix, stock STD.	**Expires:**	09/30/22
Standard Type:	Other Solution	**Prepared:**	10/02/17
Solvent:	Solvent Lot #	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	10/02/17 14:24 by YNB
Vendor:	Restek	**Lot Numbe**	A0128345

RESTEK Cat No. 30003, LOT # A0128345, Bar code #AU009400

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene	460-00-4	5000

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30003 **Lot No.:** A0128345

Description : VOA Tuning Compound Mix

VOA Tuning Compound Mix 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	5,018.0 µg/mL	+/- 29.4484 µg/mL	Gravimetric
			+/- 281.3828 µg/mL	Unstressed
			+/- 287.9654 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

A4009399 | 1740013
9400 | 14
1 | 15
2 | 16
3 | 17

Analytical Standard Record

EPA Region 9 Laboratory

1744080

Description:	VOA 502/524 VOC Mix, Stock	**Expires:**	08/31/18
Standard Type:	Other Solution	**Prepared:**	11/02/17
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1.15	**Department:**	Volatiles
Vials:	1	**Last Edit:**	11/02/17 12:31 by YNB
Vendor:	Supelco	**Lot Numbe**	LC22531V

Supelco, Cat # 502111, Lot# LC22531V, bar code AU009645

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromo-3-chloropropane	96-12-8	2000
1,1,1,2-Tetrachloroethane	630-20-6	2000
Benzene	71-43-2	2000
4-Chlorotoluene	106-43-4	2000
2-Chlorotoluene	95-49-8	2000
2,2-Dichloropropane	594-20-7	2000
1,4-Dichlorobenzene	106-46-7	2000
1,3-Dichloropropane	142-28-9	2000
1,3-Dichlorobenzene	541-73-1	2000
1,3,5-Trimethylbenzene	108-67-8	2000
1,2-Dichloropropane	78-87-5	2000
1,2-Dichloroethane	107-06-2	2000
Bromochloromethane	74-97-5	2000
1,2-Dibromoethane (EDB)	106-93-4	2000
Bromodichloromethane	75-27-4	2000
1,2,4-Trimethylbenzene	95-63-6	2000
1,2,4-Trichlorobenzene	120-82-1	2000
1,2,3-Trimethylbenzene	526-73-8	2000
1,2,3-Trichloropropane	96-18-4	2000
1,2,3-Trichlorobenzene	87-61-6	2000
1,1-Dichloropropene	563-58-6	2000
1,1-Dichloroethene	75-35-4	2000
1,1-Dichloroethane	75-34-3	2000
1,1,2-Trichloroethane	79-00-5	2000
1,1,2,2-Tetrachloroethane	79-34-5	2000
1,1,1-Trichloroethane	71-55-6	2000
1,2-Dichlorobenzene	95-50-1	2000
Hexachlorobutadiene	87-68-3	2000
trans-1,3-Dichloropropene	10061-02-6	2000
trans-1,2-Dichloroethene	156-60-5	2000

Analytical Standard Record

EPA Region 9 Laboratory

1744080

Toluene	108-88-3	2000
Tetrachloroethene	127-18-4	2000
tert-Butylbenzene	98-06-6	2000
Styrene	100-42-5	2000
sec-Butylbenzene	135-98-8	2000
Propylbenzene	103-65-1	2000
p-Isopropyltoluene	99-87-6	2000
o-Xylene	95-47-6	2000
Naphthalene	91-20-3	2000
Bromobenzene	108-86-1	2000
Isopropylbenzene	98-82-8	2000
Trichloroethene	79-01-6	2000
Ethylbenzene	100-41-4	2000
Dichloromethane	75-09-2	2000
Dibromomethane	74-95-3	2000
cis-1,3-Dichloropropene	10061-01-5	2000
cis-1,2-Dichloroethene	156-59-2	2000
Chloroform	67-66-3	2000
Chlorodibromomethane	124-48-1	2000
Chlorobenzene	108-90-7	2000
Carbon tetrachloride	56-23-5	2000
Butylbenzene	104-51-8	2000
Bromoform	75-25-2	2000
m&p-Xylene	179601-23-1	4000

Certificate of Analysis

DESCRIPTION: 502/524 Volatile Organics Calibration Mix

CATALOG NO.: 502111
LOT NO.: LC22531V

MFG DATE: Aug-2016
EXPIRATION DATE: Aug-2018

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
BENZENE	71-43-2	99.9	2000	1959	+/-	6.8	LC03683
BROMOBENZENE	108-86-1	99.5	2000	1974	+/-	7.5	LB99843
BROMOCHLOROMETHANE	74-97-5	99.3	2000	1944	+/-	24.1	LB39040
BROMODICHLOROMETHANE	75-27-4	98.3	2000	1939	+/-	11.0	LC08591
BROMOFORM	75-25-2	99.9	2000	1965	+/-	13.1	LB80493
CARBON TETRACHLORIDE	56-23-5	99.9	2000	1961	+/-	48.8	LA55583
CHLOROBENZENE	108-90-7	99.9	2000	1964	+/-	10.1	LC05550
CHLOROFORM	67-66-3	98.2	2000	1964	+/-	13.6	LB97804
CIS 1,3-DICHLOROPROPENE (Z)	10061-01-5	99.9	2000	1960	+/-	4.4	LC20110
CIS-1,2-DICHLOROETHYLENE	156-59-2	99.3	2000	1937	+/-	25.3	LB80945
CUMENE	98-82-8	99.9	2001	1966	+/-	8.2	LB89580
DIBROMOCHLOROMETHANE	124-48-1	95.2	2000	1964	+/-	8.9	LB89245
DIBROMOMETHANE	74-95-3	98.9	2000	1948	+/-	11.6	LB81118
DICHLOROMETHANE	75-09-2	99.9	2000	1968	+/-	64.8	LC17906
ETHYLBENZENE	100-41-4	99.9	2000	1961	+/-	5.4	LB69556
HEXACHLOROBUTADIENE	87-68-3	96.6	2000	2047	+/-	26.7	LC19488
M-XYLENE (5)	108-38-3	99.9	2000	*****			LB87531
N-BUTYLBENZENE	104-51-8	99.9	2000	1982	+/-	17.0	LB81630
N-PROPYLBENZENE	103-65-1	99.9	2000	1954	+/-	10.7	LC15896

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

AU009641	1744076
42	77
43	78
44	79
45	80

Duane Funk

Duane Funk
Quality Manager

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.
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595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 502/524 Volatile Organics Calibration Mix

CATALOG NO.: 502111
LOT NO.: LC22531V

MFG DATE: Aug-2016
EXPIRATION DATE: Aug-2018

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION	STD DEV	SUPELCO LOT NO
NAPHTHALENE	91-20-3	99.9	2000	1991	+/- 22.7	LB83148
O-XYLENE	95-47-6	99.9	2001	1982	+/- 6.6	LB63785
P-ISOPROPYLTOLUENE	99-87-6	99.2	2000	1971	+/- 12.7	LB40003
P-XYLENE (5)	106-42-3	99.9	2000	*****		LB73203
SEC-BUTYLBENZENE	135-98-8	99.8	2000	1971	+/- 11.5	LB77150
STYRENE	100-42-5	99.9	2001	1971	+/- 9.0	LC17632
TERT-BUTYLBENZENE	98-06-6	99.8	2000	1966	+/- 13.2	LB40373
TETRACHLOROETHENE	127-18-4	99.9	2000	1985	+/- 11.6	LB67182
TOLUENE	108-88-3	99.9	2000	1954	+/- 9.2	LC14689
TRANS 1,3-DICHLOROPROPENE (E)	10061-02-6	99.3	2000	1950	+/- 13.8	LC11733
TRANS-1,2-DICHLOROETHYLENE	156-60-5	99.6	2000	1956	+/- 87.3	LB82639
TRICHLOROETHYLENE	79-01-6	98.4	2000	1954	+/- 30.7	LB56674
1,1-DICHLOROETHANE	75-34-3	98.0	2000	1983	+/- 50.0	LB68167
1,1-DICHLOROETHYLENE	75-35-4	99.9	2000	1843	+/- 125.5	LC08188
1,1-DICHLOROPROPENE	563-58-6	99.9	2000	1952	+/- 47.8	LC11148
1,1,1-TRICHLOROETHANE	71-55-6	97.2	2000	1939	+/- 32.9	LC06533
1,1,1,2-TETRACHLOROETHANE	630-20-6	99.9	2001	1990	+/- 10.4	LC14810
1,1,2-TRICHLOROETHANE	79-00-5	99.9	2001	1962	+/- 12.7	LB87978
1,1,2,2-TETRACHLOROETHANE	79-34-5	99.9	2000	1969	+/- 15.4	LB51327

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Duane Funk

Duane Funk
Quality Manager

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.
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SUPELCO
Solutions within.™
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 502/524 Volatile Organics Calibration Mix

CATALOG NO.: 502111
LOT NO.: LC22531V

MFG DATE: Aug-2016
EXPIRATION DATE: Aug-2018

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3)	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	98.1	2000	1985	+/-	35.5	LB06608
1,2-DIBROMOETHANE	106-93-4	99.1	2000	1957	+/-	10.8	LB42792
1,2-DICHLOROBENZENE	95-50-1	99.5	2000	1980	+/-	13.7	LB58923
1,2-DICHLOROETHANE	107-06-2	99.9	2000	1960	+/-	32.6	LB74294
1,2-DICHLOROPROPANE	78-87-5	99.9	2000	1966	+/-	8.6	LC14320
1,2,3-TRICHLOROBENZENE	87-61-6	99.9	2000	2009	+/-	25.5	LA50762
1,2,3-TRICHLOROPROPANE	96-18-4	99.4	2000	1976	+/-	14.3	LB82841
1,2,4-TRICHLOROBENZENE	120-82-1	99.4	2000	1986	+/-	22.6	LB48083
1,2,4-TRIMETHYLBENZENE	95-63-6	98.8	2000	1978	+/-	11.1	LB97224
1,3-DICHLOROBENZENE	541-73-1	99.9	2001	1981	+/-	9.4	LB68066
1,3-DICHLOROPROPANE	142-28-9	99.9	2000	1956	+/-	8.8	LC10811
1,3,5-TRIMETHYLBENZENE	108-67-8	99.3	2000	1969	+/-	9.8	LB82157
1,4-DICHLOROBENZENE	106-46-7	99.9	2000	1973	+/-	11.0	LB90630
2-CHLOROTOLUENE	95-49-8	99.9	2000	1970	+/-	11.2	LC01464
2,2-DICHLOROPROPANE	594-20-7	99.9	2000	1946	+/-	32.2	LC11610
4-CHLOROTOLUENE	106-43-4	99.9	2000	1965	+/-	10.6	LC02742

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Duane Funk

Duane Funk
Quality Manager

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SUPELCO
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Phone (814) 359-3441

This Data Sheet Contains Important Information About The Product.

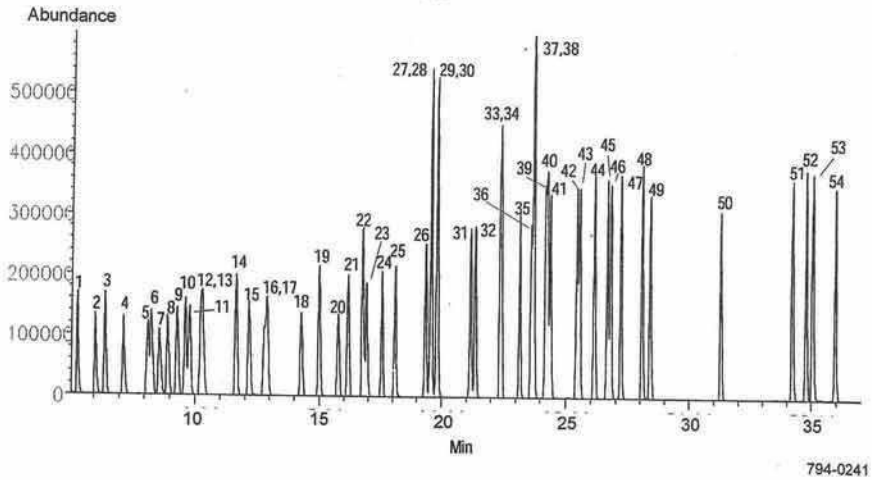
502/524 Volatile Organics Calibration Mix

Catalog No. 502111

This mixture contains 2000µg/mL of each of the following components in methanol:

1. 1,1-Dichloroethylene
2. Methylene chloride
3. trans-1,2-Dichloroethylene
4. 1,1-Dichloroethane
5. 2,2-Dichloropropane
6. cis-1,2-Dichloroethylene
7. Chloroform
8. Bromochloromethane
9. 1,1,1-Trichloroethane
10. 1,1-Dichloropropene
11. Carbon tetrachloride
12. 1,2-Dichloroethane
13. Benzene
14. Trichloroethylene
15. 1,2-Dichloropropane
16. Bromodichloromethane
17. Dibromomethane
18. cis-1,3-Dichloropropene
19. Toluene
20. trans-1,3-Dichloropropene
21. 1,1,2-Trichloroethane
22. Tetrachloroethylene
23. 1,3-Dichloropropane
24. Dibromochloromethane
25. 1,2-Dibromoethane
26. Chlorobenzene
27. Ethylbenzene
28. 1,1,1,2-Tetrachloroethane
29. m-Xylene
30. p-Xylene
31. o-Xylene
32. Styrene
33. Bromoform
34. Isopropylbenzene
35. 1,1,2,2-Tetrachloroethane
36. 1,2,3-Trichloropropane
37. Bromobenzene
38. n-Propylbenzene
39. 2-Chlorotoluene
40. 1,3,5-Trimethylbenzene
41. 4-Chlorotoluene
42. tert-Butylbenzene
43. 1,2,4-Trimethylbenzene
44. sec-Butylbenzene
45. p-Isopropyltoluene
46. 1,3-Dichlorobenzene
47. 1,4-Dichlorobenzene
48. n-Butylbenzene
49. 1,2-Dichlorobenzene
50. 1,2-Dibromo-3-chloropropane
51. 1,2,4-Trichlorobenzene
52. Hexachlorobutadiene
53. Naphthalene
54. 1,2,3-Trichlorobenzene

TIC



Column: **VOCOL™, 105m x 0.53mm ID, 1.0µm film**
Oven: 35°C (4 min) to 200°C at 4°C/min
Carrier: helium, 15mL/min
Det.: MS (m/z = 35-260, 0.4 sec/scan)

T797016
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SUPELCO
Bellefonte, PA

Analytical Standard Record

EPA Region 9 Laboratory

1752052

Description:	VOA 502.2 CAL 2000 MEGA MIX, Stock	**Expires:**	07/31/19
Standard Type:	Other Solution	**Prepared:**	12/27/17
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	12/27/17 13:29 by YNB
Vendor:	Restek	**Lot Numbe**	A0129144

RESTEK, catalog # 30431, Barcode AU009720

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	2000
Bromobenzene	108-86-1	2000
Benzene	71-43-2	2000
4-Chlorotoluene	106-43-4	2000
2-Chlorotoluene	95-49-8	2000
2,2-Dichloropropane	594-20-7	2000
1,4-Dichlorobenzene	106-46-7	2000
1,3-Dichloropropane	142-28-9	2000
1,3-Dichlorobenzene	541-73-1	2000
1,3,5-Trimethylbenzene	108-67-8	2000
1,2-Dichloropropane	78-87-5	2000
1,1,1,2-Tetrachloroethane	630-20-6	2000
1,2-Dichlorobenzene	95-50-1	2000
Bromoform	75-25-2	2000
1,2-Dibromo-3-chloropropane	96-12-8	2000
1,2,4-Trimethylbenzene	95-63-6	2000
1,2,4-Trichlorobenzene	120-82-1	2000
1,2,3-Trichloropropane	96-18-4	2000
1,2,3-Trichlorobenzene	87-61-6	2000
1,1-Dichloropropene	563-58-6	2000
1,1-Dichloroethene	75-35-4	2000
1,1-Dichloroethane	75-34-3	2000
1,1,2-Trichloroethane	79-00-5	2000
1,1,2,2-Tetrachloroethane	79-34-5	2000
1,1,1-Trichloroethane	71-55-6	2000
1,2-Dichloroethane	107-06-2	2000
Hexachlorobutadiene	87-68-3	2000
trans-1,3-Dichloropropene	10061-02-6	2000
trans-1,2-Dichloroethene	156-60-5	2000
Toluene	108-88-3	2000

Analytical Standard Record

EPA Region 9 Laboratory

1752052

Tetrachloroethene	127-18-4	2000
tert-Butylbenzene	98-06-6	2000
Styrene	100-42-5	2000
sec-Butylbenzene	135-98-8	2000
Propylbenzene	103-65-1	2000
p-Isopropyltoluene	99-87-6	2000
o-Xylene	95-47-6	2000
Naphthalene	91-20-3	2000
Bromochloromethane	74-97-5	2000
Isopropylbenzene	98-82-8	2000
Bromodichloromethane	75-27-4	2000
Ethylbenzene	100-41-4	2000
Dichloromethane	75-09-2	2000
Dibromomethane	74-95-3	2000
cis-1,3-Dichloropropene	10061-01-5	2000
cis-1,2-Dichloroethene	156-59-2	2000
Chloroform	67-66-3	2000
Chlorodibromomethane	124-48-1	2000
Chlorobenzene	108-90-7	2000
Carbon tetrachloride	56-23-5	2000
Butylbenzene	104-51-8	2000
Trichloroethene	79-01-6	2000
m&p-Xylene	179601-23-1	4000

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. :	30431	**Lot No.:**	A0129144
Description :	502.2 CAL2000 Mega-Mix		
	502.2 CAL2000 Mega-Mix 2,000µg/mL, P&T Methanol, 1mL/ampul		
Container Size :	2 mL	**Pkg Amt:**	> 1 mL
Expiration Date :	July 31, 2019	**Storage:**	0°C or colder

AU009719	1752051
20	52
21	53
22	54
23	55

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,1-dichloroethene		2,011.9 µg/mL	+/- 12.6803	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBG8609V)		+/- 90.7493	µg/mL	Unstressed
	Purity 99%			+/- 100.6700	µg/mL	Stressed
2	Methylene chloride (dichloromethane)		2,007.8 µg/mL	+/- 12.6545	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBH2578V)		+/- 90.5644	µg/mL	Unstressed
	Purity 99%			+/- 100.4649	µg/mL	Stressed
3	trans-1,2-Dichloroethene		2,009.9 µg/mL	+/- 12.6676	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot 09531AE)		+/- 90.6580	µg/mL	Unstressed
	Purity 99%			+/- 100.5687	µg/mL	Stressed
4	1,1-Dichloroethane		2,010.1 µg/mL	+/- 12.6687	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 358700)		+/- 90.6659	µg/mL	Unstressed
	Purity 99%			+/- 100.5775	µg/mL	Stressed
5	2,2-Dichloropropane		2,000.5 µg/mL	+/- 12.6845	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBR0622V)		+/- 90.2460	µg/mL	Unstressed
	Purity 98%			+/- 100.1095	µg/mL	Stressed
6	cis-1,2-Dichloroethene		2,000.3 µg/mL	+/- 12.6832	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBV2831V)		+/- 90.2372	µg/mL	Unstressed
	Purity 98%			+/- 100.0997	µg/mL	Stressed
7	chloroform		2,015.2 µg/mL	+/- 12.7008	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot MKBV2089V)		+/- 90.8959	µg/mL	Unstressed
	Purity 99%			+/- 100.8327	µg/mL	Stressed

24	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,008.5	µg/mL	+/- +/- +/-	12.6591 90.5975 100.5016	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,000.6	µg/mL	+/- +/- +/-	12.6853 90.2518 100.1159	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBF0505V)	2,006.7	µg/mL	+/- +/- +/-	12.6476 90.5148 100.4098	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,002.0	µg/mL	+/- +/- +/-	12.6939 90.3134 100.1843	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBH5087V)	2,000.2	µg/mL	+/- +/- +/-	12.6827 90.2337 100.0959	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBG9538V)	2,000.3	µg/mL	+/- +/- +/-	12.6834 90.2382 100.1009	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBG3928V)	2,000.9	µg/mL	+/- +/- +/-	12.6870 90.2638 100.1292	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH3432V)	2,000.3	µg/mL	+/- +/- +/-	12.6832 90.2367 100.0992	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBV4061V)	2,000.7	µg/mL	+/- +/- +/-	12.6855 90.2533 100.1176	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,002.1	µg/mL	+/- +/- +/-	12.6944 90.3164 100.1876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,017.0	µg/mL	+/- +/- +/-	12.7122 90.9771 100.9227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,015.7	µg/mL	+/- +/- +/-	12.7040 90.9185 100.8577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,000.0	µg/mL	+/- +/- +/-	12.6813 90.2232 100.0842	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,000.7	µg/mL	+/- +/- +/-	12.6855 90.2533 100.1176	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,001.6	µg/mL	+/- +/- +/-	12.6914 90.2954 100.1643	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBQ2165V)	2,000.9	µg/mL	+/- +/- +/-	12.6868 90.2623 100.1276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

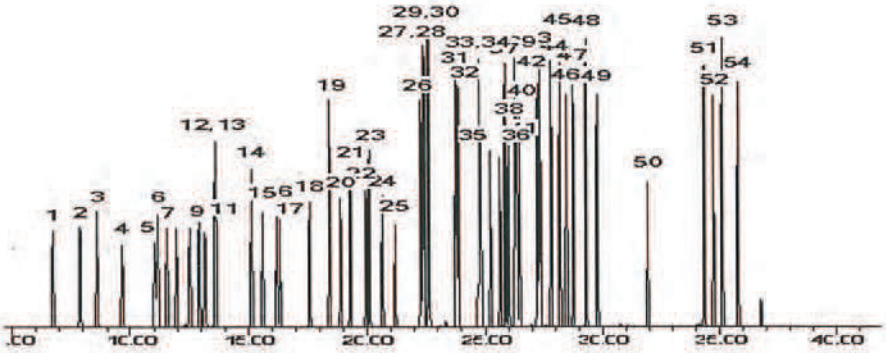
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 13-Jul-2017 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Jul-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Analytical Standard Record

EPA Region 9 Laboratory

1806045

Description:	passive air WORKING BFB 50 mg/L	**Expires:**	08/07/18
Standard Type:	Other Solution	**Prepared:**	02/07/18
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	5	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/06/18 16:39 by RH
Vendor:	*Prepared*	**Lot Numbe**	1748145

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene [2C]	460-00-4	50
4-Bromofluorobenzene	460-00-4	50

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1708045	VOA BFB TUNING CPD	02/21/17	** Vendor **	01/31/22	02/06/18 16:38 by RH	0.05

Analytical Standard Record

EPA Region 9 Laboratory

1823094

Description:	Passive indoor air Surrogate Stock	Expires:	12/11/18
Standard Type:	Calibration Standa	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	2	Department:	Volatiles
Vials:	1	Last Edit:	06/08/18 11:45 by RH

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	10000	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1639097	Toluene-d8	09/22/16	Bob Hopeman	05/31/19	09/22/16 14:33 by RH	0.02

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823095

Description:	Passive indoor air Internal Standard Stock	Expires:	12/11/18
Standard Type:	Internal Standard	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	2	Department:	Volatiles
Vials:	1	Last Edit:	06/08/18 11:48 by RH

Analyte	CAS Number	Concentration	Units
2-Fluorotoluene	95-52-3	10000	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1639096	2-Fluorotoluene	09/22/16	** Vendor **	12/31/29	09/22/17 11:57 by TD	0.02

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823096

Description:	Passive indoor air stock std 50	Expires:	12/11/18
Standard Type:	Analyte Spike	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	20	Department:	Volatiles
Vials:	1	Last Edit:	06/08/18 12:47 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	50	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	50	ug/mL
Bromobenzene	108-86-1	50	ug/mL
Benzene	71-43-2	50	ug/mL
4-Chlorotoluene	106-43-4	50	ug/mL
2-Chlorotoluene	95-49-8	50	ug/mL
2,2-Dichloropropane	594-20-7	50	ug/mL
1,4-Dichlorobenzene	106-46-7	50	ug/mL
1,3-Dichloropropane	142-28-9	50	ug/mL
1,3-Dichlorobenzene	541-73-1	50	ug/mL
1,3,5-Trimethylbenzene	108-67-8	50	ug/mL
1,2-Dichloropropane	78-87-5	50	ug/mL
Bromodichloromethane	75-27-4	50	ug/mL
1,2-Dichlorobenzene	95-50-1	50	ug/mL
Bromoform	75-25-2	50	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	50	ug/mL
1,2,4-Trimethylbenzene	95-63-6	50	ug/mL
1,2,4-Trichlorobenzene	120-82-1	50	ug/mL
1,2,3-Trichloropropane	96-18-4	50	ug/mL
1,2,3-Trichlorobenzene	87-61-6	50	ug/mL
1,1-Dichloropropene	563-58-6	50	ug/mL
1,1-Dichloroethene	75-35-4	50	ug/mL
1,1-Dichloroethane	75-34-3	50	ug/mL
1,1,2-Trichloroethane	79-00-5	50	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	50	ug/mL
1,1,1-Trichloroethane	71-55-6	50	ug/mL
1,2-Dichloroethane	107-06-2	50	ug/mL
Isopropylbenzene	98-82-8	50	ug/mL
trans-1,3-Dichloropropene	10061-02-6	50	ug/mL
trans-1,2-Dichloroethene	156-60-5	50	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823096

Toluene-d8	2037-26-5	50	ug/mL
Toluene	108-88-3	50	ug/mL
Tetrachloroethene	127-18-4	50	ug/mL
tert-Butylbenzene	98-06-6	50	ug/mL
Styrene	100-42-5	50	ug/mL
sec-Butylbenzene	135-98-8	50	ug/mL
Propylbenzene	103-65-1	50	ug/mL
p-Isopropyltoluene	99-87-6	50	ug/mL
o-Xylene	95-47-6	50	ug/mL
Bromochloromethane	74-97-5	50	ug/mL
m&p-Xylene	179601-23-1	100	ug/mL
Trichloroethene	79-01-6	50	ug/mL
Hexachlorobutadiene	87-68-3	50	ug/mL
Ethylbenzene	100-41-4	50	ug/mL
Dichloromethane	75-09-2	50	ug/mL
Dibromomethane	74-95-3	50	ug/mL
cis-1,3-Dichloropropene	10061-01-5	50	ug/mL
cis-1,2-Dichloroethene	156-59-2	50	ug/mL
Chloroform	67-66-3	50	ug/mL
Chlorodibromomethane	124-48-1	50	ug/mL
Chlorobenzene	108-90-7	50	ug/mL
Carbon tetrachloride	56-23-5	50	ug/mL
Butylbenzene	104-51-8	50	ug/mL
Naphthalene	91-20-3	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1752052	VOA 502.2 CAL 2000 MEGA MIX, St	12/27/17	** Vendor **	07/31/19	12/27/17 13:29 by YNB	0.5
1823094	Passive indoor air Surrogate Stock	06/11/18	Bob Hopeman	12/11/18	06/08/18 11:45 by RH	0.1

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823096

Description:	Passive indoor air stock std 50	Expires:	12/11/18
Standard Type:	Analyte Spike	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	20	Department:	Volatiles
Vials:	1	Last Edit:	06/11/18 10:46 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	50	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	50	ug/mL
Bromobenzene	108-86-1	50	ug/mL
Benzene	71-43-2	50	ug/mL
4-Chlorotoluene	106-43-4	50	ug/mL
2-Chlorotoluene	95-49-8	50	ug/mL
2,2-Dichloropropane	594-20-7	50	ug/mL
1,4-Dichlorobenzene	106-46-7	50	ug/mL
1,3-Dichloropropane	142-28-9	50	ug/mL
1,3-Dichlorobenzene	541-73-1	50	ug/mL
1,3,5-Trimethylbenzene	108-67-8	50	ug/mL
1,2-Dichloropropane	78-87-5	50	ug/mL
Bromodichloromethane	75-27-4	50	ug/mL
1,2-Dichlorobenzene	95-50-1	50	ug/mL
Bromoform	75-25-2	50	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	50	ug/mL
1,2,4-Trimethylbenzene	95-63-6	50	ug/mL
1,2,4-Trichlorobenzene	120-82-1	50	ug/mL
1,2,3-Trichloropropane	96-18-4	50	ug/mL
1,2,3-Trichlorobenzene	87-61-6	50	ug/mL
1,1-Dichloropropene	563-58-6	50	ug/mL
1,1-Dichloroethene	75-35-4	50	ug/mL
1,1-Dichloroethane	75-34-3	50	ug/mL
1,1,2-Trichloroethane	79-00-5	50	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	50	ug/mL
1,1,1-Trichloroethane	71-55-6	50	ug/mL
1,2-Dichloroethane	107-06-2	50	ug/mL
Isopropylbenzene	98-82-8	50	ug/mL
trans-1,3-Dichloropropene	10061-02-6	50	ug/mL
trans-1,2-Dichloroethene	156-60-5	50	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823096

Toluene-d8	2037-26-5	50	ug/mL
Toluene	108-88-3	50	ug/mL
Tetrachloroethene	127-18-4	50	ug/mL
tert-Butylbenzene	98-06-6	50	ug/mL
Styrene	100-42-5	50	ug/mL
sec-Butylbenzene	135-98-8	50	ug/mL
Propylbenzene	103-65-1	50	ug/mL
p-Isopropyltoluene	99-87-6	50	ug/mL
o-Xylene	95-47-6	50	ug/mL
Bromochloromethane	74-97-5	50	ug/mL
m&p-Xylene	179601-23-1	100	ug/mL
Trichloroethene	79-01-6	50	ug/mL
Hexachlorobutadiene	87-68-3	50	ug/mL
Ethylbenzene	100-41-4	50	ug/mL
Dichloromethane	75-09-2	50	ug/mL
Dibromomethane	74-95-3	50	ug/mL
cis-1,3-Dichloropropene	10061-01-5	50	ug/mL
cis-1,2-Dichloroethene	156-59-2	50	ug/mL
Chloroform	67-66-3	50	ug/mL
Chlorodibromomethane	124-48-1	50	ug/mL
Chlorobenzene	108-90-7	50	ug/mL
Carbon tetrachloride	56-23-5	50	ug/mL
Butylbenzene	104-51-8	50	ug/mL
Naphthalene	91-20-3	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1752052	VOA 502.2 CAL 2000 MEGA MIX, St	12/27/17	** Vendor **	07/31/19	12/27/17 13:29 by YNB	0.5
1823094	Passive indoor air Surrogate Stock	06/11/18	Bob Hopeman	12/11/18	06/11/18 10:46 by RH	0.1

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823097

Description:	Passive air Surrogate/I.S. Working solution	Expires:	12/11/18
Standard Type:	Surrogate Spike	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	25	Department:	Volatiles
Vials:	1	Last Edit:	06/11/18 10:46 by RH

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	200	ug/mL
2-Fluorotoluene	95-52-3	200	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1823095	Passive indoor air Internal Standard Sto	06/11/18	Bob Hopeman	12/11/18	06/11/18 10:46 by RH	0.5
1823094	Passive indoor air Surrogate Stock	06/11/18	Bob Hopeman	12/11/18	06/11/18 10:46 by RH	0.5

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823098

Description:	Passive indoor air 25	Expires:	12/11/18
Standard Type:	Calibration Standa	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	06/08/18 13:22 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	25	ug/mL
Bromobenzene	108-86-1	25	ug/mL
Benzene	71-43-2	25	ug/mL
4-Chlorotoluene	106-43-4	25	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	25	ug/mL
2,2-Dichloropropane	594-20-7	25	ug/mL
1,4-Dichlorobenzene	106-46-7	25	ug/mL
1,3-Dichloropropane	142-28-9	25	ug/mL
1,3-Dichlorobenzene	541-73-1	25	ug/mL
1,3,5-Trimethylbenzene	108-67-8	25	ug/mL
1,2-Dichloropropane	78-87-5	25	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	25	ug/mL
1,2-Dichlorobenzene	95-50-1	25	ug/mL
Bromoform	75-25-2	25	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	25	ug/mL
1,2,4-Trimethylbenzene	95-63-6	25	ug/mL
1,2,4-Trichlorobenzene	120-82-1	25	ug/mL
1,2,3-Trichloropropane	96-18-4	25	ug/mL
1,2,3-Trichlorobenzene	87-61-6	25	ug/mL
1,1-Dichloropropene	563-58-6	25	ug/mL
1,1-Dichloroethene	75-35-4	25	ug/mL
1,1-Dichloroethane	75-34-3	25	ug/mL
1,1,2-Trichloroethane	79-00-5	25	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	25	ug/mL
1,1,1-Trichloroethane	71-55-6	25	ug/mL
1,2-Dichloroethane	107-06-2	25	ug/mL
Isopropylbenzene	98-82-8	25	ug/mL
trans-1,3-Dichloropropene	10061-02-6	25	ug/mL
trans-1,2-Dichloroethene	156-60-5	25	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823098

Toluene-d8	2037-26-5	25	ug/mL
Toluene	108-88-3	25	ug/mL
Tetrachloroethene	127-18-4	25	ug/mL
tert-Butylbenzene	98-06-6	25	ug/mL
Styrene	100-42-5	25	ug/mL
sec-Butylbenzene	135-98-8	25	ug/mL
Propylbenzene	103-65-1	25	ug/mL
p-Isopropyltoluene	99-87-6	25	ug/mL
o-Xylene	95-47-6	25	ug/mL
Bromochloromethane	74-97-5	25	ug/mL
m&p-Xylene	179601-23-1	50	ug/mL
Bromodichloromethane	75-27-4	25	ug/mL
Hexachlorobutadiene	87-68-3	25	ug/mL
Ethylbenzene	100-41-4	25	ug/mL
Dichloromethane	75-09-2	25	ug/mL
Dibromomethane	74-95-3	25	ug/mL
cis-1,3-Dichloropropene	10061-01-5	25	ug/mL
cis-1,2-Dichloroethene	156-59-2	25	ug/mL
Chloroform	67-66-3	25	ug/mL
Chlorodibromomethane	124-48-1	25	ug/mL
Chlorobenzene	108-90-7	25	ug/mL
Carbon tetrachloride	56-23-5	25	ug/mL
Butylbenzene	104-51-8	25	ug/mL
Trichloroethene	79-01-6	25	ug/mL
Naphthalene	91-20-3	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1823096	Passive indoor air stock std 50	06/11/18	Bob Hopeman	12/11/18	06/08/18 12:47 by RH	5
1823095	Passive indoor air Internal Standard Sto	06/11/18	Bob Hopeman	12/11/18	06/08/18 11:48 by RH	0.005

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823099

Description:	Passive indoor air 10	Expires:	12/11/18
Standard Type:	Calibration Standa	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	06/08/18 13:23 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	10	ug/mL
Bromobenzene	108-86-1	10	ug/mL
Benzene	71-43-2	10	ug/mL
4-Chlorotoluene	106-43-4	10	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	10	ug/mL
2,2-Dichloropropane	594-20-7	10	ug/mL
1,4-Dichlorobenzene	106-46-7	10	ug/mL
1,3-Dichloropropane	142-28-9	10	ug/mL
1,3-Dichlorobenzene	541-73-1	10	ug/mL
1,3,5-Trimethylbenzene	108-67-8	10	ug/mL
1,2-Dichloropropane	78-87-5	10	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	10	ug/mL
1,2-Dichlorobenzene	95-50-1	10	ug/mL
Bromoform	75-25-2	10	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	10	ug/mL
1,2,4-Trimethylbenzene	95-63-6	10	ug/mL
1,2,4-Trichlorobenzene	120-82-1	10	ug/mL
1,2,3-Trichloropropane	96-18-4	10	ug/mL
1,2,3-Trichlorobenzene	87-61-6	10	ug/mL
1,1-Dichloropropene	563-58-6	10	ug/mL
1,1-Dichloroethene	75-35-4	10	ug/mL
1,1-Dichloroethane	75-34-3	10	ug/mL
1,1,2-Trichloroethane	79-00-5	10	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	10	ug/mL
1,1,1-Trichloroethane	71-55-6	10	ug/mL
1,2-Dichloroethane	107-06-2	10	ug/mL
Isopropylbenzene	98-82-8	10	ug/mL
trans-1,3-Dichloropropene	10061-02-6	10	ug/mL
trans-1,2-Dichloroethene	156-60-5	10	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823099

Toluene-d8	2037-26-5	10	ug/mL
Toluene	108-88-3	10	ug/mL
Tetrachloroethene	127-18-4	10	ug/mL
tert-Butylbenzene	98-06-6	10	ug/mL
Styrene	100-42-5	10	ug/mL
sec-Butylbenzene	135-98-8	10	ug/mL
Propylbenzene	103-65-1	10	ug/mL
p-Isopropyltoluene	99-87-6	10	ug/mL
o-Xylene	95-47-6	10	ug/mL
Bromochloromethane	74-97-5	10	ug/mL
m&p-Xylene	179601-23-1	20	ug/mL
Bromodichloromethane	75-27-4	10	ug/mL
Hexachlorobutadiene	87-68-3	10	ug/mL
Ethylbenzene	100-41-4	10	ug/mL
Dichloromethane	75-09-2	10	ug/mL
Dibromomethane	74-95-3	10	ug/mL
cis-1,3-Dichloropropene	10061-01-5	10	ug/mL
cis-1,2-Dichloroethene	156-59-2	10	ug/mL
Chloroform	67-66-3	10	ug/mL
Chlorodibromomethane	124-48-1	10	ug/mL
Chlorobenzene	108-90-7	10	ug/mL
Carbon tetrachloride	56-23-5	10	ug/mL
Butylbenzene	104-51-8	10	ug/mL
Trichloroethene	79-01-6	10	ug/mL
Naphthalene	91-20-3	10	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1823096	Passive indoor air stock std 50	06/11/18	Bob Hopeman	12/11/18	06/08/18 12:47 by RH	2
1823095	Passive indoor air Internal Standard Sto	06/11/18	Bob Hopeman	12/11/18	06/08/18 11:48 by RH	0.005

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823100

Description:	Passive indoor air 5	Expires:	12/11/18
Standard Type:	Calibration Standa	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	06/08/18 13:24 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	5	ug/mL
Bromobenzene	108-86-1	5	ug/mL
Benzene	71-43-2	5	ug/mL
4-Chlorotoluene	106-43-4	5	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	5	ug/mL
2,2-Dichloropropane	594-20-7	5	ug/mL
1,4-Dichlorobenzene	106-46-7	5	ug/mL
1,3-Dichloropropane	142-28-9	5	ug/mL
1,3-Dichlorobenzene	541-73-1	5	ug/mL
1,3,5-Trimethylbenzene	108-67-8	5	ug/mL
1,2-Dichloropropane	78-87-5	5	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/mL
1,2-Dichlorobenzene	95-50-1	5	ug/mL
Bromoform	75-25-2	5	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	5	ug/mL
1,2,4-Trimethylbenzene	95-63-6	5	ug/mL
1,2,4-Trichlorobenzene	120-82-1	5	ug/mL
1,2,3-Trichloropropane	96-18-4	5	ug/mL
1,2,3-Trichlorobenzene	87-61-6	5	ug/mL
1,1-Dichloropropene	563-58-6	5	ug/mL
1,1-Dichloroethene	75-35-4	5	ug/mL
1,1-Dichloroethane	75-34-3	5	ug/mL
1,1,2-Trichloroethane	79-00-5	5	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/mL
1,1,1-Trichloroethane	71-55-6	5	ug/mL
1,2-Dichloroethane	107-06-2	5	ug/mL
Isopropylbenzene	98-82-8	5	ug/mL
trans-1,3-Dichloropropene	10061-02-6	5	ug/mL
trans-1,2-Dichloroethene	156-60-5	5	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823100

Toluene-d8	2037-26-5	5	ug/mL
Toluene	108-88-3	5	ug/mL
Tetrachloroethene	127-18-4	5	ug/mL
tert-Butylbenzene	98-06-6	5	ug/mL
Styrene	100-42-5	5	ug/mL
sec-Butylbenzene	135-98-8	5	ug/mL
Propylbenzene	103-65-1	5	ug/mL
p-Isopropyltoluene	99-87-6	5	ug/mL
o-Xylene	95-47-6	5	ug/mL
Bromochloromethane	74-97-5	5	ug/mL
m&p-Xylene	179601-23-1	10	ug/mL
Bromodichloromethane	75-27-4	5	ug/mL
Hexachlorobutadiene	87-68-3	5	ug/mL
Ethylbenzene	100-41-4	5	ug/mL
Dichloromethane	75-09-2	5	ug/mL
Dibromomethane	74-95-3	5	ug/mL
cis-1,3-Dichloropropene	10061-01-5	5	ug/mL
cis-1,2-Dichloroethene	156-59-2	5	ug/mL
Chloroform	67-66-3	5	ug/mL
Chlorodibromomethane	124-48-1	5	ug/mL
Chlorobenzene	108-90-7	5	ug/mL
Carbon tetrachloride	56-23-5	5	ug/mL
Butylbenzene	104-51-8	5	ug/mL
Trichloroethene	79-01-6	5	ug/mL
Naphthalene	91-20-3	5	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1823096	Passive indoor air stock std 50	06/11/18	Bob Hopeman	12/11/18	06/08/18 12:47 by RH	1
1823095	Passive indoor air Internal Standard Sto	06/11/18	Bob Hopeman	12/11/18	06/08/18 11:48 by RH	0.005

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823101

Description:	Passive indoor air 1	Expires:	12/11/18
Standard Type:	Calibration Standa	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	06/08/18 13:25 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	1	ug/mL
Bromobenzene	108-86-1	1	ug/mL
Benzene	71-43-2	1	ug/mL
4-Chlorotoluene	106-43-4	1	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	1	ug/mL
2,2-Dichloropropane	594-20-7	1	ug/mL
1,4-Dichlorobenzene	106-46-7	1	ug/mL
1,3-Dichloropropane	142-28-9	1	ug/mL
1,3-Dichlorobenzene	541-73-1	1	ug/mL
1,3,5-Trimethylbenzene	108-67-8	1	ug/mL
1,2-Dichloropropane	78-87-5	1	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	1	ug/mL
1,2-Dichlorobenzene	95-50-1	1	ug/mL
Bromoform	75-25-2	1	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	1	ug/mL
1,2,4-Trimethylbenzene	95-63-6	1	ug/mL
1,2,4-Trichlorobenzene	120-82-1	1	ug/mL
1,2,3-Trichloropropane	96-18-4	1	ug/mL
1,2,3-Trichlorobenzene	87-61-6	1	ug/mL
1,1-Dichloropropene	563-58-6	1	ug/mL
1,1-Dichloroethene	75-35-4	1	ug/mL
1,1-Dichloroethane	75-34-3	1	ug/mL
1,1,2-Trichloroethane	79-00-5	1	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	1	ug/mL
1,1,1-Trichloroethane	71-55-6	1	ug/mL
1,2-Dichloroethane	107-06-2	1	ug/mL
Isopropylbenzene	98-82-8	1	ug/mL
trans-1,3-Dichloropropene	10061-02-6	1	ug/mL
trans-1,2-Dichloroethene	156-60-5	1	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823101

Toluene-d8	2037-26-5	1	ug/mL
Toluene	108-88-3	1	ug/mL
Tetrachloroethene	127-18-4	1	ug/mL
tert-Butylbenzene	98-06-6	1	ug/mL
Styrene	100-42-5	1	ug/mL
sec-Butylbenzene	135-98-8	1	ug/mL
Propylbenzene	103-65-1	1	ug/mL
p-Isopropyltoluene	99-87-6	1	ug/mL
o-Xylene	95-47-6	1	ug/mL
Bromochloromethane	74-97-5	1	ug/mL
m&p-Xylene	179601-23-1	2	ug/mL
Bromodichloromethane	75-27-4	1	ug/mL
Hexachlorobutadiene	87-68-3	1	ug/mL
Ethylbenzene	100-41-4	1	ug/mL
Dichloromethane	75-09-2	1	ug/mL
Dibromomethane	74-95-3	1	ug/mL
cis-1,3-Dichloropropene	10061-01-5	1	ug/mL
cis-1,2-Dichloroethene	156-59-2	1	ug/mL
Chloroform	67-66-3	1	ug/mL
Chlorodibromomethane	124-48-1	1	ug/mL
Chlorobenzene	108-90-7	1	ug/mL
Carbon tetrachloride	56-23-5	1	ug/mL
Butylbenzene	104-51-8	1	ug/mL
Trichloroethene	79-01-6	1	ug/mL
Naphthalene	91-20-3	1	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1823096	Passive indoor air stock std 50	06/11/18	Bob Hopeman	12/11/18	06/08/18 12:47 by RH	0.2
1823095	Passive indoor air Internal Standard Sto	06/11/18	Bob Hopeman	12/11/18	06/08/18 11:48 by RH	0.005

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823102

Description:	Passive indoor air 0.15	Expires:	12/11/18
Standard Type:	Calibration Standa	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	06/08/18 13:25 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	0.15	ug/mL
Bromobenzene	108-86-1	0.15	ug/mL
Benzene	71-43-2	0.15	ug/mL
4-Chlorotoluene	106-43-4	0.15	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	0.15	ug/mL
2,2-Dichloropropane	594-20-7	0.15	ug/mL
1,4-Dichlorobenzene	106-46-7	0.15	ug/mL
1,3-Dichloropropane	142-28-9	0.15	ug/mL
1,3-Dichlorobenzene	541-73-1	0.15	ug/mL
1,3,5-Trimethylbenzene	108-67-8	0.15	ug/mL
1,2-Dichloropropane	78-87-5	0.15	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	0.15	ug/mL
1,2-Dichlorobenzene	95-50-1	0.15	ug/mL
Bromoform	75-25-2	0.15	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	0.15	ug/mL
1,2,4-Trimethylbenzene	95-63-6	0.15	ug/mL
1,2,4-Trichlorobenzene	120-82-1	0.15	ug/mL
1,2,3-Trichloropropane	96-18-4	0.15	ug/mL
1,2,3-Trichlorobenzene	87-61-6	0.15	ug/mL
1,1-Dichloropropene	563-58-6	0.15	ug/mL
1,1-Dichloroethene	75-35-4	0.15	ug/mL
1,1-Dichloroethane	75-34-3	0.15	ug/mL
1,1,2-Trichloroethane	79-00-5	0.15	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	0.15	ug/mL
1,1,1-Trichloroethane	71-55-6	0.15	ug/mL
1,2-Dichloroethane	107-06-2	0.15	ug/mL
Isopropylbenzene	98-82-8	0.15	ug/mL
trans-1,3-Dichloropropene	10061-02-6	0.15	ug/mL
trans-1,2-Dichloroethene	156-60-5	0.15	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823102

Toluene-d8	2037-26-5	0.15	ug/mL
Toluene	108-88-3	0.15	ug/mL
Tetrachloroethene	127-18-4	0.15	ug/mL
tert-Butylbenzene	98-06-6	0.15	ug/mL
Styrene	100-42-5	0.15	ug/mL
sec-Butylbenzene	135-98-8	0.15	ug/mL
Propylbenzene	103-65-1	0.15	ug/mL
p-Isopropyltoluene	99-87-6	0.15	ug/mL
o-Xylene	95-47-6	0.15	ug/mL
Bromochloromethane	74-97-5	0.15	ug/mL
m&p-Xylene	179601-23-1	0.3	ug/mL
Bromodichloromethane	75-27-4	0.15	ug/mL
Hexachlorobutadiene	87-68-3	0.15	ug/mL
Ethylbenzene	100-41-4	0.15	ug/mL
Dichloromethane	75-09-2	0.15	ug/mL
Dibromomethane	74-95-3	0.15	ug/mL
cis-1,3-Dichloropropene	10061-01-5	0.15	ug/mL
cis-1,2-Dichloroethene	156-59-2	0.15	ug/mL
Chloroform	67-66-3	0.15	ug/mL
Chlorodibromomethane	124-48-1	0.15	ug/mL
Chlorobenzene	108-90-7	0.15	ug/mL
Carbon tetrachloride	56-23-5	0.15	ug/mL
Butylbenzene	104-51-8	0.15	ug/mL
Trichloroethene	79-01-6	0.15	ug/mL
Naphthalene	91-20-3	0.15	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1823096	Passive indoor air stock std 50	06/11/18	Bob Hopeman	12/11/18	06/08/18 12:47 by RH	0.03
1823095	Passive indoor air Internal Standard Sto	06/11/18	Bob Hopeman	12/11/18	06/08/18 11:48 by RH	0.005

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823103

Description:	Passive indoor air 0.05	Expires:	12/11/18
Standard Type:	Calibration Standa	Prepared:	06/11/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	06/08/18 13:26 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	0.05	ug/mL
Bromobenzene	108-86-1	0.05	ug/mL
Benzene	71-43-2	0.05	ug/mL
4-Chlorotoluene	106-43-4	0.05	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	0.05	ug/mL
2,2-Dichloropropane	594-20-7	0.05	ug/mL
1,4-Dichlorobenzene	106-46-7	0.05	ug/mL
1,3-Dichloropropane	142-28-9	0.05	ug/mL
1,3-Dichlorobenzene	541-73-1	0.05	ug/mL
1,3,5-Trimethylbenzene	108-67-8	0.05	ug/mL
1,2-Dichloropropane	78-87-5	0.05	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	0.05	ug/mL
1,2-Dichlorobenzene	95-50-1	0.05	ug/mL
Bromoform	75-25-2	0.05	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	0.05	ug/mL
1,2,4-Trimethylbenzene	95-63-6	0.05	ug/mL
1,2,4-Trichlorobenzene	120-82-1	0.05	ug/mL
1,2,3-Trichloropropane	96-18-4	0.05	ug/mL
1,2,3-Trichlorobenzene	87-61-6	0.05	ug/mL
1,1-Dichloropropene	563-58-6	0.05	ug/mL
1,1-Dichloroethene	75-35-4	0.05	ug/mL
1,1-Dichloroethane	75-34-3	0.05	ug/mL
1,1,2-Trichloroethane	79-00-5	0.05	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	0.05	ug/mL
1,1,1-Trichloroethane	71-55-6	0.05	ug/mL
1,2-Dichloroethane	107-06-2	0.05	ug/mL
Isopropylbenzene	98-82-8	0.05	ug/mL
trans-1,3-Dichloropropene	10061-02-6	0.05	ug/mL
trans-1,2-Dichloroethene	156-60-5	0.05	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1823103

Toluene-d8	2037-26-5	0.05	ug/mL
Toluene	108-88-3	0.05	ug/mL
Tetrachloroethene	127-18-4	0.05	ug/mL
tert-Butylbenzene	98-06-6	0.05	ug/mL
Styrene	100-42-5	0.05	ug/mL
sec-Butylbenzene	135-98-8	0.05	ug/mL
Propylbenzene	103-65-1	0.05	ug/mL
p-Isopropyltoluene	99-87-6	0.05	ug/mL
o-Xylene	95-47-6	0.05	ug/mL
Bromochloromethane	74-97-5	0.05	ug/mL
m&p-Xylene	179601-23-1	0.1	ug/mL
Bromodichloromethane	75-27-4	0.05	ug/mL
Hexachlorobutadiene	87-68-3	0.05	ug/mL
Ethylbenzene	100-41-4	0.05	ug/mL
Dichloromethane	75-09-2	0.05	ug/mL
Dibromomethane	74-95-3	0.05	ug/mL
cis-1,3-Dichloropropene	10061-01-5	0.05	ug/mL
cis-1,2-Dichloroethene	156-59-2	0.05	ug/mL
Chloroform	67-66-3	0.05	ug/mL
Chlorodibromomethane	124-48-1	0.05	ug/mL
Chlorobenzene	108-90-7	0.05	ug/mL
Carbon tetrachloride	56-23-5	0.05	ug/mL
Butylbenzene	104-51-8	0.05	ug/mL
Trichloroethene	79-01-6	0.05	ug/mL
Naphthalene	91-20-3	0.05	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1823096	Passive indoor air stock std 50	06/11/18	Bob Hopeman	12/11/18	06/08/18 12:47 by RH	0.01
1823095	Passive indoor air Internal Standard Sto	06/11/18	Bob Hopeman	12/11/18	06/08/18 11:48 by RH	0.005

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1824014

Description:	Passive indoor air SCV	Expires:	08/31/18
Standard Type:	Calibration Standa	Prepared:	06/12/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	06/12/18 10:54 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	5	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/mL
Benzene	71-43-2	5	ug/mL
4-Chlorotoluene	106-43-4	5	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	5	ug/mL
2,2-Dichloropropane	594-20-7	5	ug/mL
1,4-Dichlorobenzene	106-46-7	5	ug/mL
1,3-Dichloropropane	142-28-9	5	ug/mL
1,3-Dichlorobenzene	541-73-1	5	ug/mL
1,3,5-Trimethylbenzene	108-67-8	5	ug/mL
1,2-Dichloropropane	78-87-5	5	ug/mL
Bromochloromethane	74-97-5	5	ug/mL
1,2-Dichlorobenzene	95-50-1	5	ug/mL
Bromodichloromethane	75-27-4	5	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	5	ug/mL
1,2,4-Trimethylbenzene	95-63-6	5	ug/mL
1,2,4-Trichlorobenzene	120-82-1	5	ug/mL
1,2,3-Trimethylbenzene	526-73-8	5	ug/mL
1,2,3-Trichloropropane	96-18-4	5	ug/mL
1,2,3-Trichlorobenzene	87-61-6	5	ug/mL
1,1-Dichloropropene	563-58-6	5	ug/mL
1,1-Dichloroethene	75-35-4	5	ug/mL
1,1-Dichloroethane	75-34-3	5	ug/mL
1,1,2-Trichloroethane	79-00-5	5	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/mL
1,1,1-Trichloroethane	71-55-6	5	ug/mL
1,2-Dichloroethane	107-06-2	5	ug/mL
Isopropylbenzene	98-82-8	5	ug/mL
trans-1,3-Dichloropropene	10061-02-6	5	ug/mL

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Analytical Standard Record

EPA Region 9 Laboratory

1824014

trans-1,2-Dichloroethene	156-60-5	5	ug/mL
Toluene-d8	2037-26-5	5	ug/mL
Toluene	108-88-3	5	ug/mL
Tetrachloroethene	127-18-4	5	ug/mL
tert-Butylbenzene	98-06-6	5	ug/mL
Styrene	100-42-5	5	ug/mL
sec-Butylbenzene	135-98-8	5	ug/mL
Propylbenzene	103-65-1	5	ug/mL
p-Isopropyltoluene	99-87-6	5	ug/mL
o-Xylene	95-47-6	5	ug/mL
Bromobenzene	108-86-1	5	ug/mL
m&p-Xylene	179601-23-1	10	ug/mL
Trichloroethene	79-01-6	5	ug/mL
Hexachlorobutadiene	87-68-3	5	ug/mL
Ethylbenzene	100-41-4	5	ug/mL
Dichloromethane	75-09-2	5	ug/mL
Dibromomethane	74-95-3	5	ug/mL
cis-1,3-Dichloropropene	10061-01-5	5	ug/mL
cis-1,2-Dichloroethene	156-59-2	5	ug/mL
Chloroform	67-66-3	5	ug/mL
Chlorodibromomethane	124-48-1	5	ug/mL
Chlorobenzene	108-90-7	5	ug/mL
Carbon tetrachloride	56-23-5	5	ug/mL
Butylbenzene	104-51-8	5	ug/mL
Bromoform	75-25-2	5	ug/mL
Naphthalene	91-20-3	5	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1823097	Passive air Surrogate/I.S. Working solu	06/11/18	Bob Hopeman	12/11/18	06/11/18 10:46 by RH	0.25
1744080	VOA 502/524 VOC Mix, Stock	11/02/17	** Vendor **	08/31/18	11/02/17 12:31 by YNB	0.025

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1835046

Description:	passive air WORKING BFB 50 mg/L	**Expires:**	03/01/19
Standard Type:	Other Solution	**Prepared:**	08/29/18
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	5	**Department:**	Volatiles
Vials:	1	**Last Edit:**	08/28/18 17:09 by RH
Vendor:	*Prepared*	**Lot Numbe**	1748145

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene	460-00-4	50

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1740014	VOA BFB tuning mix, stock STD.	10/02/17	** Vendor **	09/30/22	10/02/17 14:24 by YNB	0.05

Analytical Standard Record

EPA Region 9 Laboratory

1835067

Description:	Passive indoor air MRL Spike	Expires:	12/11/18
Standard Type:	Analyte Spike	Prepared:	08/29/18
Solvent:	CS2	Prepared By:	Bob Hopeman
Final Volume (mls):	2	Department:	Volatiles
Vials:	1	Last Edit:	08/29/18 14:10 by RH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	20	ug/mL
Bromobenzene	108-86-1	20	ug/mL
Benzene	71-43-2	20	ug/mL
4-Chlorotoluene	106-43-4	20	ug/mL
2-Chlorotoluene	95-49-8	20	ug/mL
2,2-Dichloropropane	594-20-7	20	ug/mL
1,4-Dichlorobenzene	106-46-7	20	ug/mL
1,3-Dichloropropane	142-28-9	20	ug/mL
1,3-Dichlorobenzene	541-73-1	20	ug/mL
1,3,5-Trimethylbenzene	108-67-8	20	ug/mL
1,2-Dichloropropane	78-87-5	20	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	20	ug/mL
1,2-Dichlorobenzene	95-50-1	20	ug/mL
Bromoform	75-25-2	20	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	20	ug/mL
1,2,4-Trimethylbenzene	95-63-6	20	ug/mL
1,2,4-Trichlorobenzene	120-82-1	20	ug/mL
1,2,3-Trichloropropane	96-18-4	20	ug/mL
1,2,3-Trichlorobenzene	87-61-6	20	ug/mL
1,1-Dichloropropene	563-58-6	20	ug/mL
1,1-Dichloroethene	75-35-4	20	ug/mL
1,1-Dichloroethane	75-34-3	20	ug/mL
1,1,2-Trichloroethane	79-00-5	20	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	20	ug/mL
1,1,1-Trichloroethane	71-55-6	20	ug/mL
1,2-Dichloroethane	107-06-2	20	ug/mL
Hexachlorobutadiene	87-68-3	20	ug/mL
trans-1,3-Dichloropropene	10061-02-6	20	ug/mL
trans-1,2-Dichloroethene	156-60-5	20	ug/mL
Toluene	108-88-3	20	ug/mL

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1835067

Tetrachloroethene	127-18-4	20	ug/mL
tert-Butylbenzene	98-06-6	20	ug/mL
Styrene	100-42-5	20	ug/mL
sec-Butylbenzene	135-98-8	20	ug/mL
Propylbenzene	103-65-1	20	ug/mL
p-Isopropyltoluene	99-87-6	20	ug/mL
o-Xylene	95-47-6	20	ug/mL
Naphthalene	91-20-3	20	ug/mL
Bromochloromethane	74-97-5	20	ug/mL
Isopropylbenzene	98-82-8	20	ug/mL
Bromodichloromethane	75-27-4	20	ug/mL
Ethylbenzene	100-41-4	20	ug/mL
Dichloromethane	75-09-2	20	ug/mL
Dibromomethane	74-95-3	20	ug/mL
cis-1,3-Dichloropropene	10061-01-5	20	ug/mL
cis-1,2-Dichloroethene	156-59-2	20	ug/mL
Chloroform	67-66-3	20	ug/mL
Chlorodibromomethane	124-48-1	20	ug/mL
Chlorobenzene	108-90-7	20	ug/mL
Carbon tetrachloride	56-23-5	20	ug/mL
Butylbenzene	104-51-8	20	ug/mL
Trichloroethene	79-01-6	20	ug/mL
m&p-Xylene	179601-23-1	40	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1752052	VOA 502.2 CAL 2000 MEGA MIX, St	12/27/17	** Vendor **	12/11/18	06/14/18 14:46 by RH	0.02

Reviewed By Date