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United States Environmental Protection Agency
Region 9 Laboratory

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

Date: **7/3/2018**

Subject: **Analytical Testing Results - Project R18S50**
SDG: 18170C

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:**	18170C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	07/03/18 09:13
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
F5-062-4ft-8d	1806075-01	Radiello 130	06/12/18 12:30	06/19/18 16:55
F5-054-4ft-8d	1806075-02	Radiello 130	06/12/18 12:49	06/19/18 16:55
F6-006-4ft-8d	1806075-03	Radiello 130	06/12/18 12:55	06/19/18 16:55
870 Leong-SC-2 ft-7d	1806075-04	Radiello 130	06/12/18 12:42	06/19/18 16:55

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:** 18170C
Project Number:	R18S50	**75 Hawthorne Street**	**Reported:** 07/03/18 09:13
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: 1806075-01									**Radiello 130 - Sampled: 06/12/18 12:30**
Sample ID: F5-062-4ft-8d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		0.27		0.12	ug/m³ Air	B18F097	06/27/18	06/27/18	Radiello D1
trans-1,2-Dichloroethene		8.8		0.14	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	0.14	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	83		1.4	"	"	"	06/27/18	Radiello D1
Chloroform	RE1	77		1.2	"	"	"	"	Radiello D1
Trichloroethene	RE1	310		1.3	"	"	"	"	Radiello D1
Tetrachloroethene	RE1	330		1.5	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			105 %	*90-110%*		"	"	*06/27/18*	
Lab ID: 1806075-02									**Radiello 130 - Sampled: 06/12/18 12:49**
Sample ID: F5-054-4ft-8d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		0.36		0.12	ug/m³ Air	B18F097	06/27/18	06/27/18	Radiello D1
trans-1,2-Dichloroethene		9.4		0.14	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.07	C1, J	0.14	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	120		1.4	"	"	"	06/27/18	Radiello D1
Chloroform		28		0.12	"	"	"	06/27/18	Radiello D1
Trichloroethene	RE1	250		1.3	"	"	"	06/27/18	Radiello D1
Tetrachloroethene	RE1	140		1.5	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			102 %	*90-110%*		"	"	*06/27/18*	
Lab ID: 1806075-03									**Radiello 130 - Sampled: 06/12/18 12:55**
Sample ID: F6-006-4ft-8d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		3.8		0.12	ug/m³ Air	B18F097	06/27/18	06/27/18	Radiello D1
trans-1,2-Dichloroethene		9.7		0.14	"	"	"	"	Radiello D1
1,1-Dichloroethane		3.6		0.14	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	140		1.4	"	"	"	06/27/18	Radiello D1
Chloroform		50		0.12	"	"	"	06/27/18	Radiello D1
Trichloroethene	RE2	1,200		13	"	"	"	06/27/18	Radiello D1
Tetrachloroethene	RE1	100		1.5	"	"	"	06/27/18	Radiello D1
Surrogate: Toluene-d8			105 %	*90-110%*		"	"	*06/27/18*	
Lab ID: 1806075-04									**Radiello 130 - Sampled: 06/12/18 12:42**
Sample ID: 870 Leong-SC-2 ft-7d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene	RE1	ND	U	0.13	ug/m³ Air	B18F097	06/27/18	06/27/18	Radiello D1
trans-1,2-Dichloroethene	RE1	0.18		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane	RE1	ND	U	0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	0.17		0.16	"	"	"	"	Radiello D1
Chloroform	RE1	1.1		0.13	"	"	"	"	Radiello D1
Trichloroethene	RE1	17		0.14	"	"	"	"	Radiello D1
Tetrachloroethene	RE1	0.67		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8	*RE1*		104 %	*90-110%*		"	"	"	

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

Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18170C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	07/03/18 09:13
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

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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18170C
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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 B18F097 - Passive Air Sampler										
Blank (B18F097-BLK1)				Prepared & Analyzed: 06/27/18						
1,1-Dichloroethene	ND	0.13	ug/m³ Air							U, Q1
trans-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U, Q1
1,1-Dichloroethane	ND	0.16	ug/m³ Air							U, Q1
cis-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U, Q1
Chloroform	ND	0.13	ug/m³ Air							U, Q1
Trichloroethene	ND	0.14	ug/m³ Air							U, Q1
Tetrachloroethene	ND	0.17	ug/m³ Air							U, Q1
Surrogate: Toluene-d8	*1030*		ug/m³ Air	*992*		*104*	*90-110*			*Q1*
Blank (B18F097-BLK2)				Prepared & Analyzed: 06/27/18						
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	*1030*		ug/m³ Air	*992*		*104*	*90-110*			
LCS (B18F097-BS2)				Prepared & Analyzed: 06/27/18						
1,1-Dichloroethene	12.2	0.13	ug/m³ Air	13.1		94	49-125			
trans-1,2-Dichloroethene	16.8	0.16	ug/m³ Air	16.0		105	47-131			
1,1-Dichloroethane	17.0	0.16	ug/m³ Air	15.7		108	53-126			
cis-1,2-Dichloroethene	16.6	0.16	ug/m³ Air	16.0		104	58-127			
Chloroform	14.0	0.13	ug/m³ Air	13.2		106	61-128			
Trichloroethene	14.9	0.14	ug/m³ Air	14.4		104	65-116			
Tetrachloroethene	16.4	0.17	ug/m³ Air	16.8		98	58-118			
Surrogate: Toluene-d8	*1030*		ug/m³ Air	*992*		*104*	*90-110*			

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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18170C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	07/03/18 09:13
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 B18F097 - Passive Air Sampler										
LCS Dup (B18F097-BSD2)				Prepared & Analyzed: 06/27/18						
1,1-Dichloroethene	11.7	0.13	ug/m³ Air	13.1		89	49-125	5	38	
trans-1,2-Dichloroethene	15.4	0.16	ug/m³ Air	16.0		96	47-131	8	14	
1,1-Dichloroethane	15.7	0.16	ug/m³ Air	15.7		100	53-126	8	31	
cis-1,2-Dichloroethene	15.2	0.16	ug/m³ Air	16.0		95	58-127	9	28	
Chloroform	12.6	0.13	ug/m³ Air	13.2		95	61-128	11	20	
Trichloroethene	13.1	0.14	ug/m³ Air	14.4		91	65-116	13	22	
Tetrachloroethene	14.0	0.17	ug/m³ Air	16.8		83	58-118	16	24	
Surrogate: Toluene-d8	*1030*		ug/m³ Air	*992*		*104*	*90-110*			
Batch S18F083 - B18F097										
Instrument Blank (S18F083-IBL1)				Prepared & Analyzed: 06/27/18						
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
1,1,1-Trichloroethane	ND	0.0	ug/L							U
Carbon tetrachloride	ND	0.0	ug/L							U
1,2-Dichloroethane	ND	0.0	ug/L							U
Trichloroethene	ND	0.0	ug/L							U
Toluene	ND	0.0	ug/L							U
1,1,2-Trichloroethane	ND	0.0	ug/L							U
Tetrachloroethene	ND	0.0	ug/L							U
Chlorobenzene	ND	0.0	ug/L							U
1,1,1,2-Tetrachloroethane	ND	0.0	ug/L							U
Ethylbenzene	ND	0.0	ug/L							U
m&p-Xylene	ND	0.0	ug/L							U
o-Xylene	ND	0.0	ug/L							U
1,1,2,2-Tetrachloroethane	ND	0.0	ug/L							U
1,3,5-Trimethylbenzene	ND	0.0	ug/L							U
1,2,4-Trimethylbenzene	ND	0.0	ug/L							U
Surrogate: Toluene-d8	*0.00*		ug/L				*90-110*			*U*

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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18170C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	07/03/18 09:13
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 S18F083 - B18F097										
Instrument Blank (S18F083-IBL2)				Prepared: 06/27/18 Analyzed: 06/28/18						
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
1,1,1-Trichloroethane	ND	0.0	ug/L							U
Carbon tetrachloride	ND	0.0	ug/L							U
1,2-Dichloroethane	ND	0.0	ug/L							U
Trichloroethene	ND	0.0	ug/L							U
Toluene	ND	0.0	ug/L							U
1,1,2-Trichloroethane	ND	0.0	ug/L							U
Tetrachloroethene	ND	0.0	ug/L							U
Chlorobenzene	ND	0.0	ug/L							U
1,1,1,2-Tetrachloroethane	ND	0.0	ug/L							U
Ethylbenzene	ND	0.0	ug/L							U
m&p-Xylene	ND	0.0	ug/L							U
o-Xylene	ND	0.0	ug/L							U
1,1,2,2-Tetrachloroethane	ND	0.0	ug/L							U
1,3,5-Trimethylbenzene	ND	0.0	ug/L							U
1,2,4-Trimethylbenzene	ND	0.0	ug/L							U
Surrogate: Toluene-d8	*0.00*		ug/L				*90-110*			*U*
Instrument Blank (S18F083-IBL3)				Prepared: 06/27/18 Analyzed: 06/28/18						
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
1,1,1-Trichloroethane	ND	0.0	ug/L							U
Carbon tetrachloride	ND	0.0	ug/L							U
1,2-Dichloroethane	ND	0.0	ug/L							U
Trichloroethene	ND	0.0	ug/L							U
Toluene	ND	0.0	ug/L							U
1,1,2-Trichloroethane	ND	0.0	ug/L							U
Tetrachloroethene	ND	0.0	ug/L							U
Chlorobenzene	ND	0.0	ug/L							U
1,1,1,2-Tetrachloroethane	ND	0.0	ug/L							U
Ethylbenzene	ND	0.0	ug/L							U
m&p-Xylene	ND	0.0	ug/L							U
o-Xylene	ND	0.0	ug/L							U
1,1,2,2-Tetrachloroethane	ND	0.0	ug/L							U
1,3,5-Trimethylbenzene	ND	0.0	ug/L							U
1,2,4-Trimethylbenzene	ND	0.0	ug/L							U

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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18170C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	07/03/18 09:13
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 S18F083 - B18F097										
Instrument Blank (S18F083-IBL3)				Prepared: 06/27/18 Analyzed: 06/28/18						
Surrogate: Toluene-d8	*0.00*		ug/L				*90-110*			*U*

United States Environmental Protection Agency
Region 9 Laboratory
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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18170C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	07/03/18 09:13
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

Qualifiers and Comments

Q1	The internal standard associated with this analyte did not meet area count criteria.
J	The reported result for this analyte should be considered an estimated value.
C1	The reported concentration for this analyte is below the quantitation limit.
U	Not Detected
NR	Not Reported
RE1, RE2, etc:	Result is from a sample re-analysis.

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VOA Passive: BLK1 and BS1 were re-run as BLK2 and BS2 because IS failed high. BSD2 was added to the batch so LIMS could link them. TD 06/29/18

WORK ORDER

Printed: 6/20/2018 8:28:16AM

1806075

EPA Region 9 Laboratory

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

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
Envelope 1	Envelope	22	Yes	Yes	Yes	No	No	

Date Due:	07/03/18 17:00 (14 day TAT)	SDG:	18170C
Received By:	Sebastian Dimitrou	Date Received:	06/19/18 16:55
Logged In By:	Sebastian Dimitrou	Date Logged In:	06/19/18 17:12

Analysis	Hold Time Expires	Comments
1806075-01 F5-062-4ft-8d [Radiello 130] Sampled 06/12/18 12:30 (GMT-08:00) Pacific Time (US &		**A226P**
VOCs, Passive Samplers	12/09/18	7 analytes
1806075-02 F5-054-4ft-8d [Radiello 130] Sampled 06/12/18 12:49 (GMT-08:00) Pacific Time (US &		**A227P**
VOCs, Passive Samplers	12/09/18	7 analytes
1806075-03 F6-006-4ft-8d [Radiello 130] Sampled 06/12/18 12:55 (GMT-08:00) Pacific Time (US &		**A228P**
VOCs, Passive Samplers	12/09/18	7 analytes
1806075-04 870 Leong-SC-2 ft-7d [Radiello 130] Sampled 06/12/18 12:42 (GMT-08:00) Pacific Time (US &		**A229P sewer cleanout**
VOCs, Passive Samplers	12/09/18	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)*

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)	
6/4/2018 13:15	6/12/2018 12:30	Air	X		F5-062-4ft-8d	A226P	1	X	100	72	
6/4/2018 13:30	6/12/2018 12:49	Air	X		F5-054-4ft-8d	A227P	1	X	800	72	
6/4/2018 13:40	6/12/2018 12:55	Air	X		F6-006-4ft-8d	A228P	1	X	800	74	
6/5/2018 10:14	6/12/2018 12:42	Air	X		870 Leong-SC-2 ft-7d	A229P	1	X	20	72	sewer cleanout

Alana Lee 6/12/18

Relinquished by: *(Signature)* Alana Lee Date/Time 6/14/18 0930 via ~~telephone~~ VM mail delivery

Received by: *(Signature)* Date/Time

Relinquished by: *(Signature)* Date/Time

Received for Laboratory by: *(Signature)* SD Date/Time 6/19/18 16:55

Temp

Seals Intact? (Y/N)

Conditions / Remarks

Table of Contents

Cooler/Box/Env 1 of 1

U.S. Environmental Protection Agency
Region 9 Richmond Laboratory

1337 South 46th Street
Richmond, CA 94804

TD 06-20-18 R18550

Sample Receipt Checklist

Note in WO memo any items outside acceptable limits.

Project No: ~~R18S66~~ Work Order No(s): 1806075 Date: 6 / 19 / 18 by SD

CUSTODY SEALS Are Intact? ..... ☒ Yes ☐ No ☐ N/A-none

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

TEMPERATURE 22 °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)

Ammonia / Nitrate/Nitrite / TKN / Phosphorus: ☐ pH <2 H2SO4

Ferrous Iron: ☐ pH <2 HCl

Other: _____

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

_____

_____

_____

_____

_____

_____

FORM #: Q016
REV #: 0
REV. DATE: 12/15/17

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	F5-062-4ft-8d	06/12/18	12:30	06/04/18	13:15	11475	22.22	22.22	295.37	A226P
2	F5-054-4ft-8d	06/12/18	12:49	06/04/18	13:30	11479	22.22	22.22	295.37	A227P
3	F6-006-4ft-8d	06/12/18	12:55	06/04/18	13:40	11475	23.33	23.33	296.48	A228P
4	870 Leong-SC-2 ft-7d	06/12/18	12:42	06/05/18	10:14	10228	22.22	22.22	295.37	A229P

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BATCH

B18F097

Batch Date: 06/27/2018

Batch Matrix: Radiello 130

Batch Analyses:

VOCs, Passive Samplers

PREPARATION BENCH SHEET

B18F097

EPA Region 9 Laboratory

Project: R18S50

Printed: 6/27/2018 7:52:06AM

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
1806075-01 A	F5-062-4ft-8d	06/27/18 06:18	1	2				50	TD	7 analytes
1806075-02 A	F5-054-4ft-8d	06/27/18 06:18	1	2				50	TD	7 analytes
1806075-03 A	F6-006-4ft-8d	06/27/18 06:18	1	2				50	TD	7 analytes
1806075-04 A	870 Leong-SC-2 ft-7d	06/27/18 06:18	1	2				50	TD	7 analytes
B18F097-BLK1	Blank	06/27/18 06:18	1	2				50	TD	
B18F097-BS1	LCS	06/27/18 06:18	1	2		1752052	5	50	TD	
B18F097-BSD1	LCS Dup	06/27/18 06:18	1	2		1752052	5	50	TD	
B18F097-MRL1	MRL Check	06/27/18 06:18	1	2		1806048	5	50	TD	

Batch Comments

Reagents

Reagent #	Description
1727126	passive air Radiello tubes
1748144	Carbon disulfide

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PREPARATION BENCH SHEET

B18F097

EPA Region 9 Laboratory

Project: R18S50

Printed: 6/27/2018 7:52:06AM

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

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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

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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

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

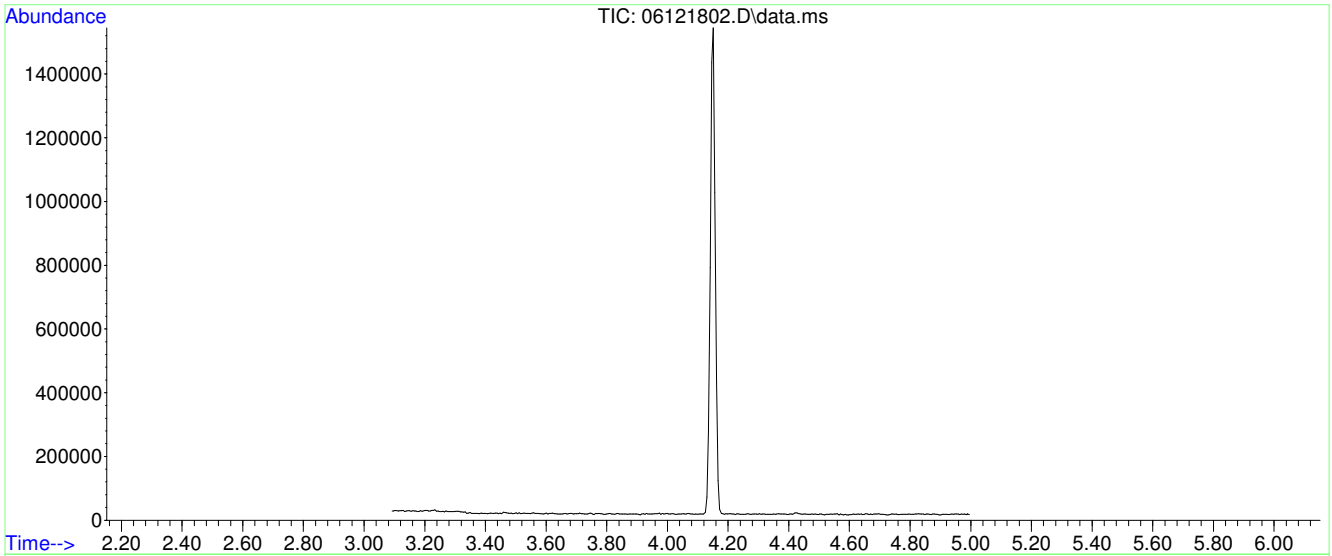
S18F027-TUN1

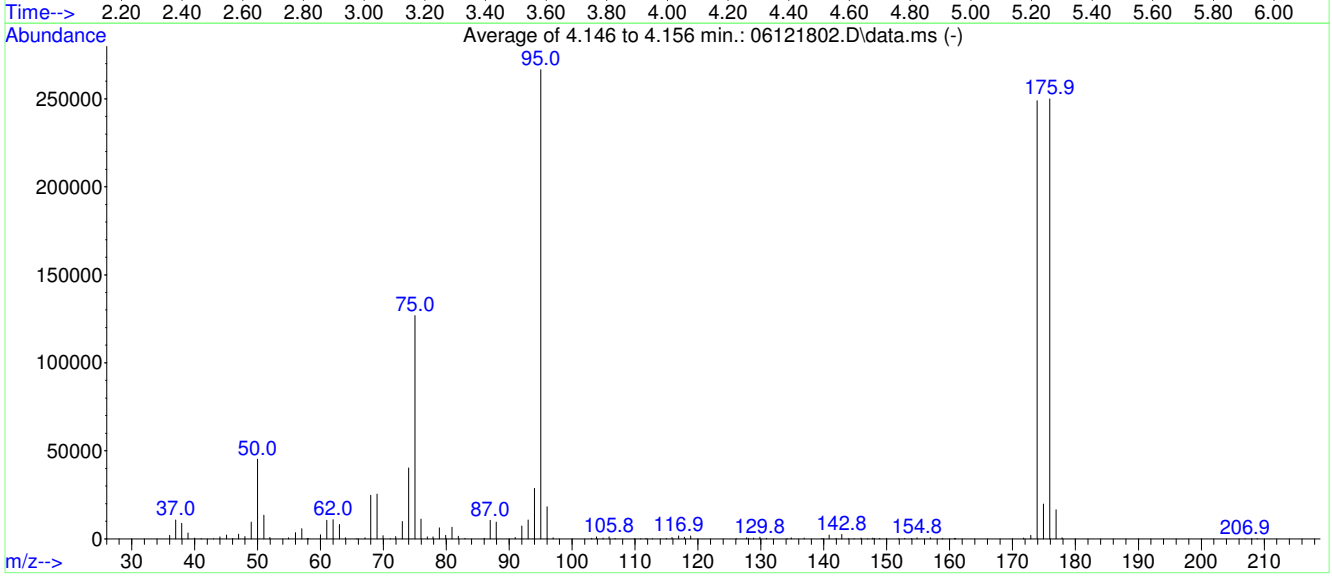
Table of Contents

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

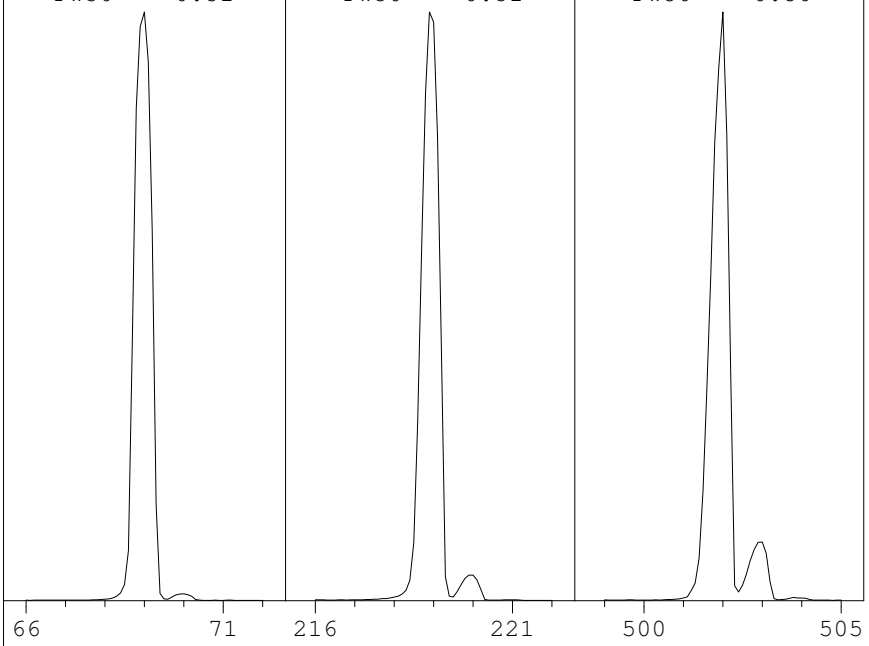
Average of 4.146 to 4.156 min.: 06121802.D\data.ms
S18F027-TUN1
Modified:subtracted

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

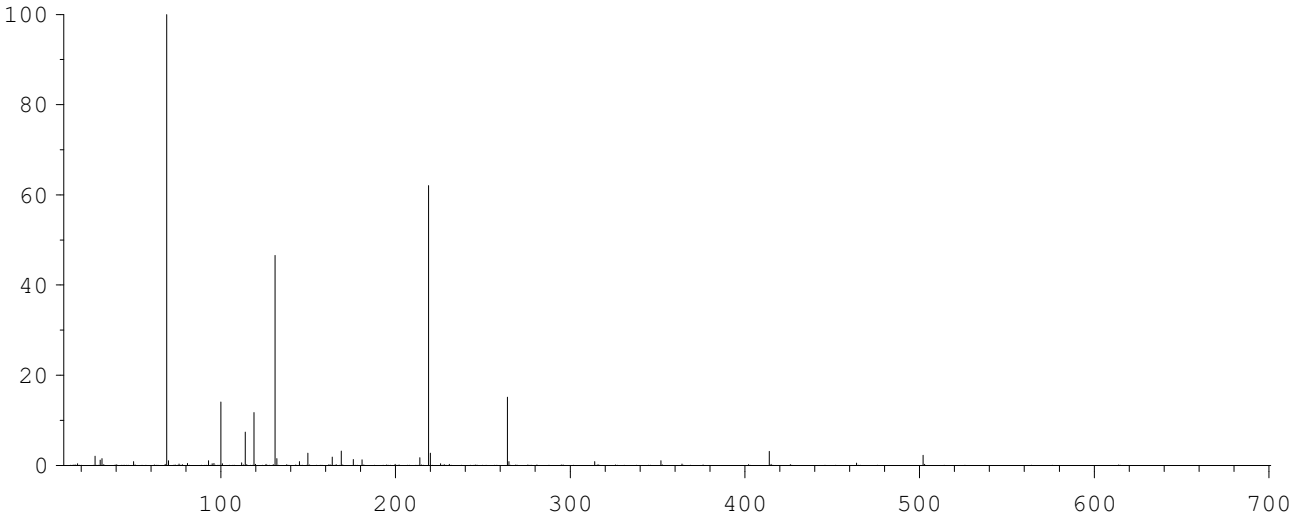


Ion Pol	Pos	MassGain	-1186
		MassOffs	-41
Emission	34.6	AmuGain	970
EIEnrgy	69.9	AmuOffs	129.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	70.2	HEDEnab	On
EntLens	0.0	EMVolts	1188
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

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

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

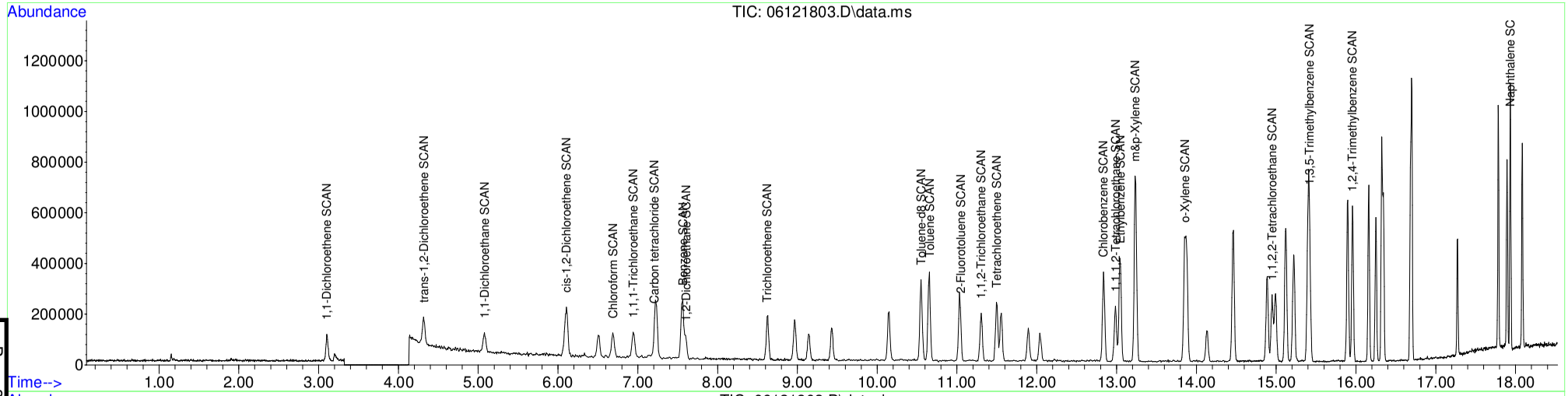
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	98303	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	389441	24389.79 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 487.80%#		
Target Compounds					Qvalue
2] 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

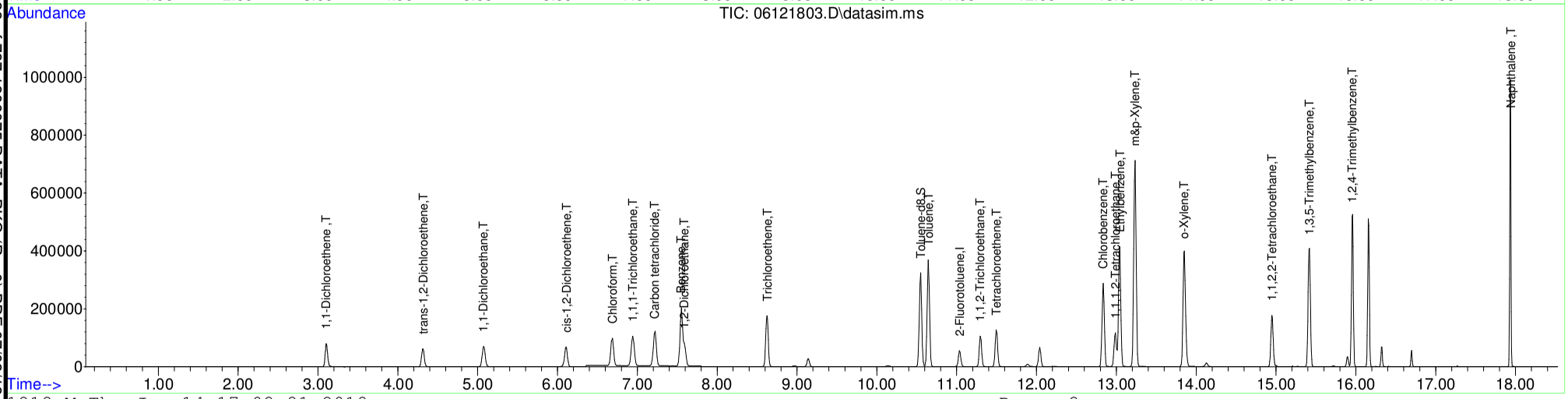
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

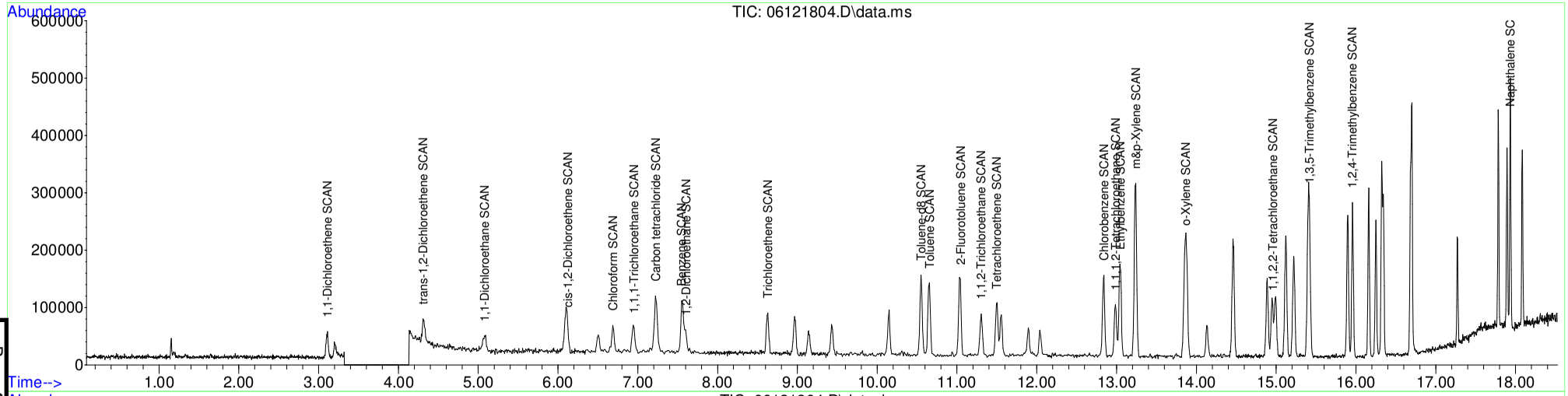
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	97466	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	155045	9793.50 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 195.87%#		
Target Compounds					Qvalue
2] 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

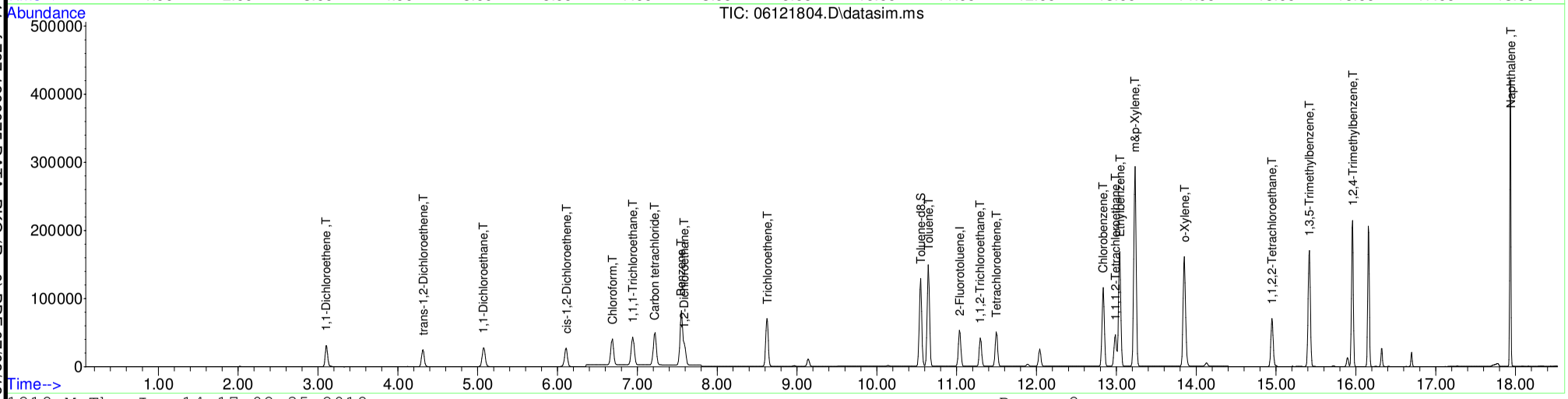
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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
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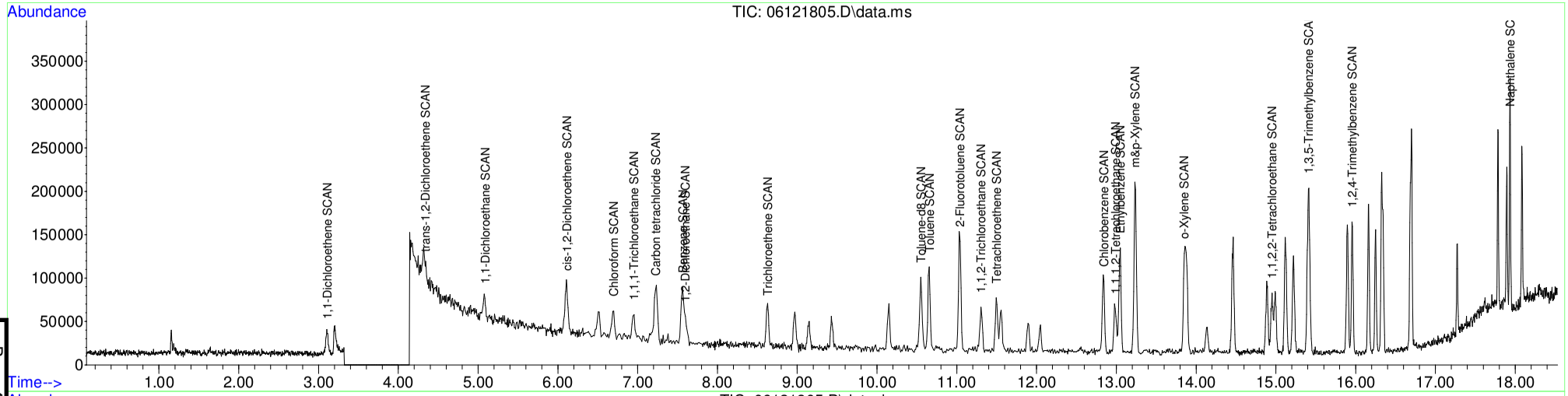
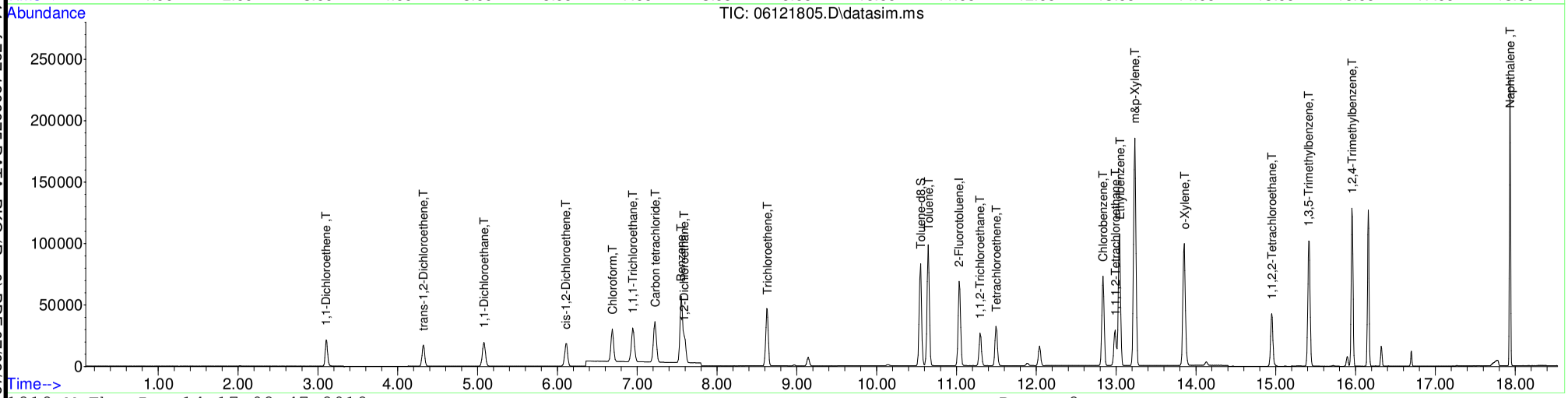
Response via : Initial Calibration





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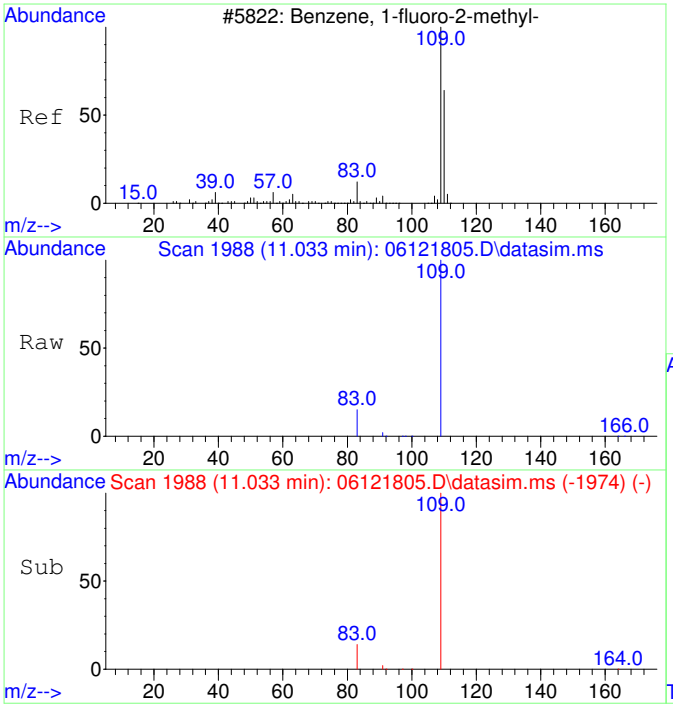
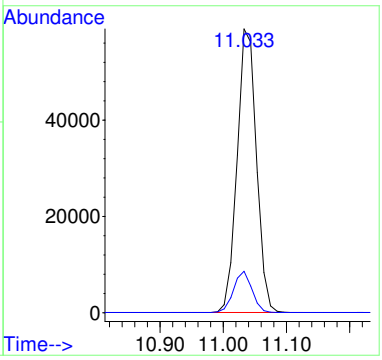
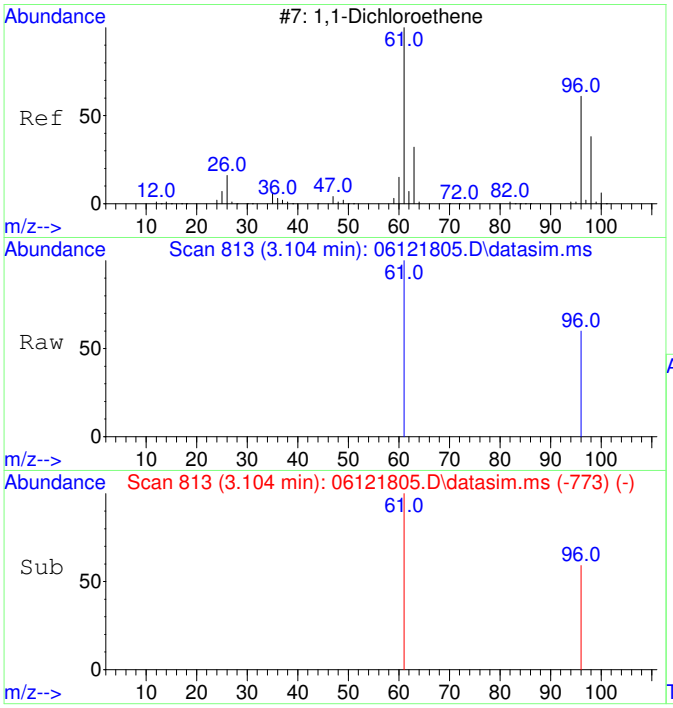


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:109 Resp: 125252

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	44.7

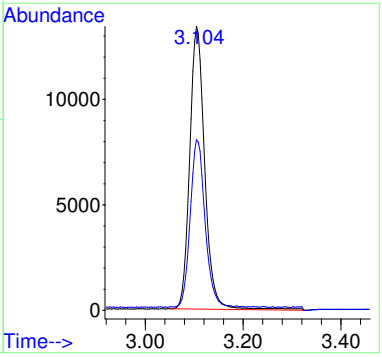


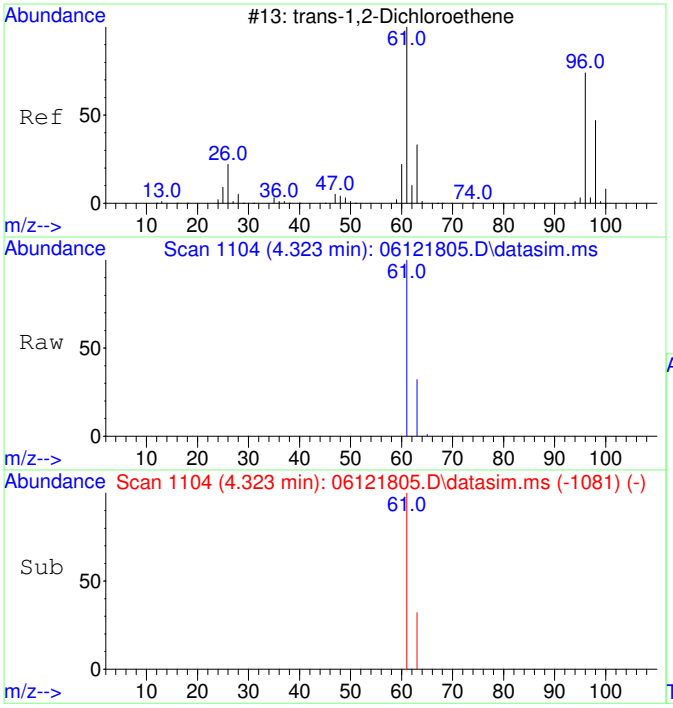


#2
1,1-Dichloroethene
Concen: 5371.82 ug/L
RT: 3.104 min Scan# 813
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 61 Resp: 28786

Ion	Ratio	Lower	Upper
61	100		
96	57.9	28.7	88.7

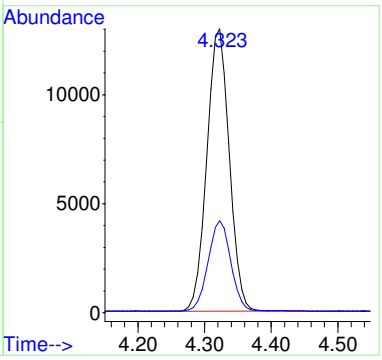


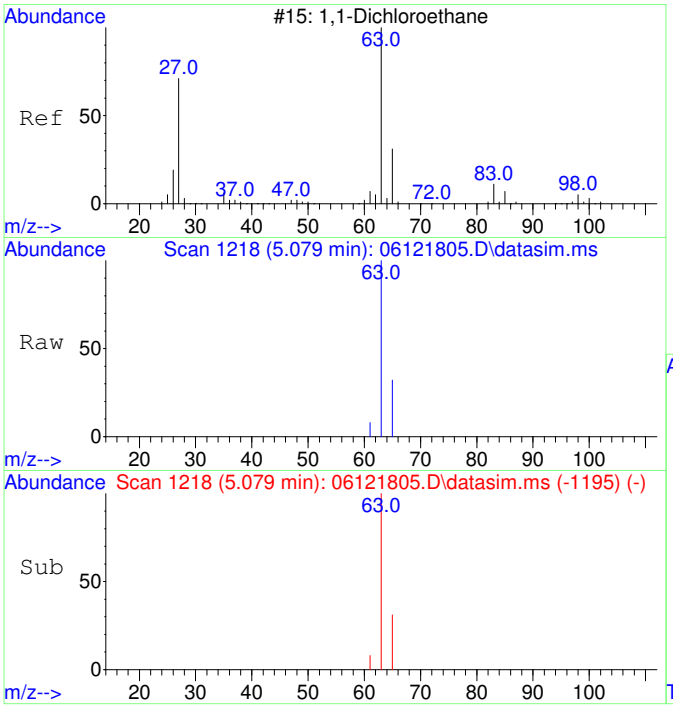


#3
trans-1,2-Dichloroethene
Concen: 5415.01 ug/L
RT: 4.323 min Scan# 1104
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 61 Resp: 30328

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.0	62.0

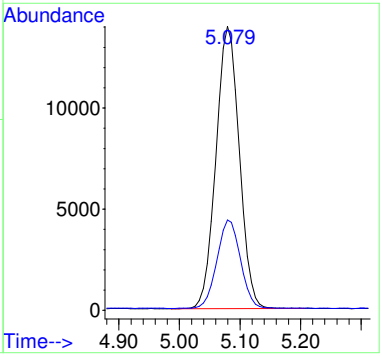


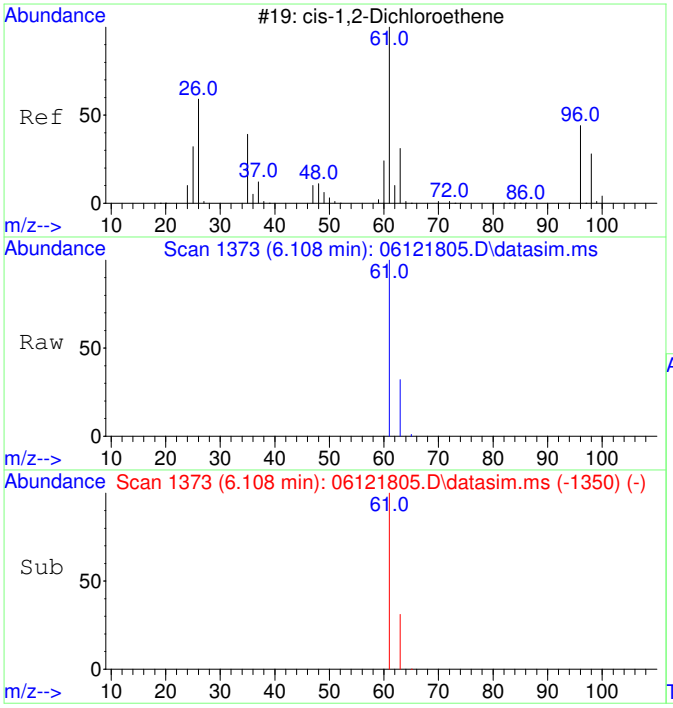


#4
1,1-Dichloroethane
Concen: 5351.63 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 63 Resp: 37306

Ion	Ratio	Lower	Upper
63	100		
65	31.5	1.5	61.5

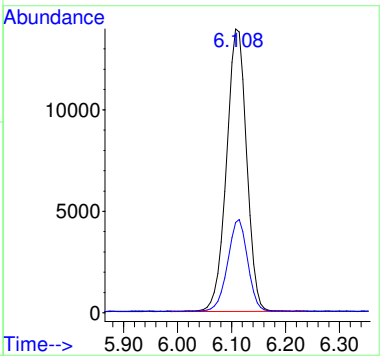


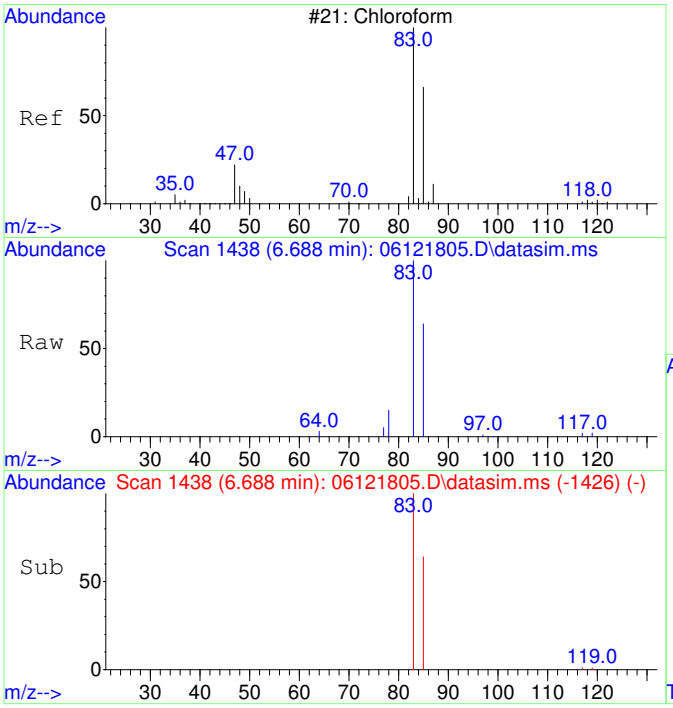


#5
cis-1,2-Dichloroethene
Concen: 5220.23 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 61 Resp: 35899

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.2	62.2

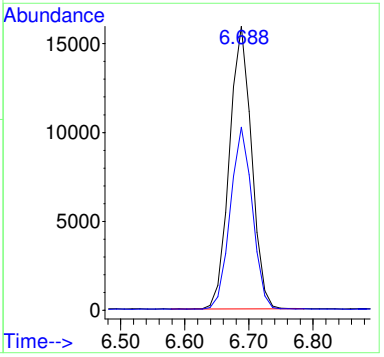


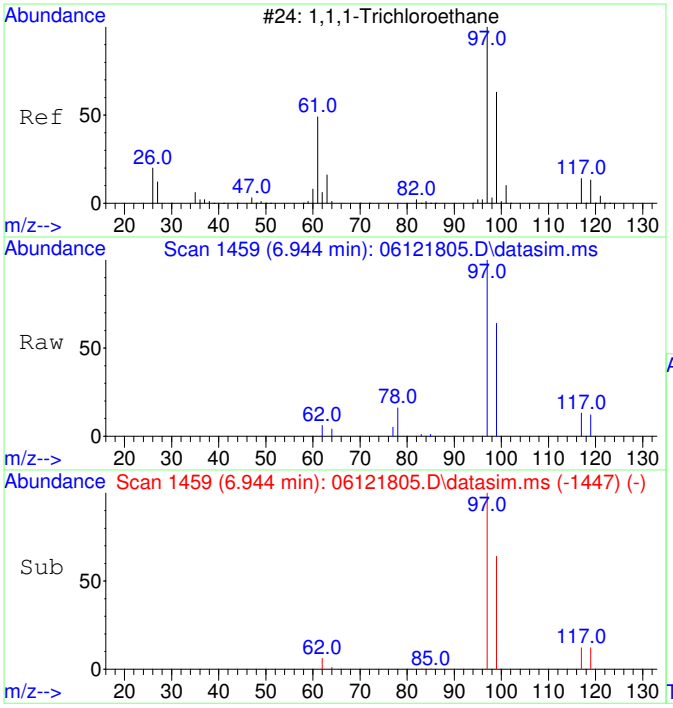


#6
Chloroform
Concen: 5128.05 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 83 Resp: 37972

Ion	Ratio	Lower	Upper
83	100		
85	63.9	34.8	94.8

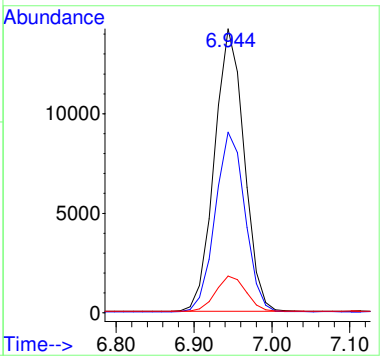


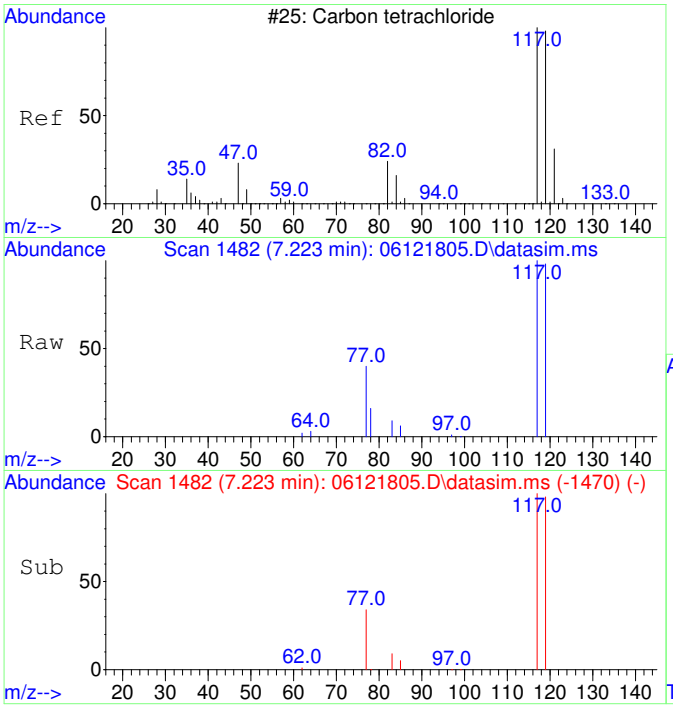


#7
1,1,1-Trichloroethane
Concen: 5154.21 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

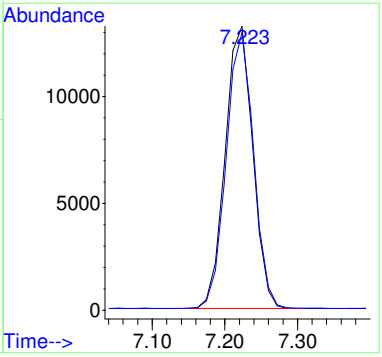


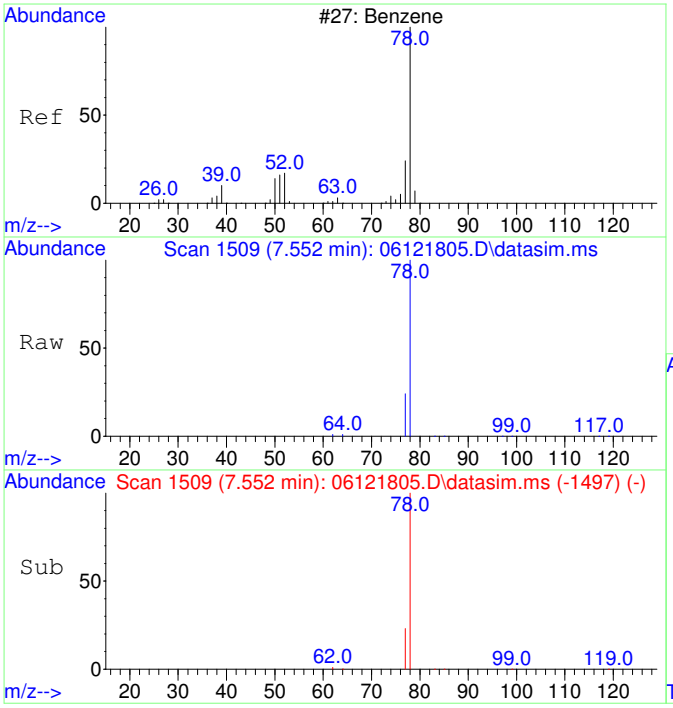


#8
Carbon tetrachloride
Concen: 5052.93 ug/L
RT: 7.223 min Scan# 1482
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:117 Resp: 34885

Ion	Ratio	Lower	Upper
117	100		
119	96.6	65.9	125.9

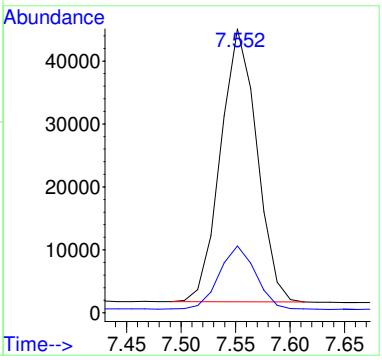


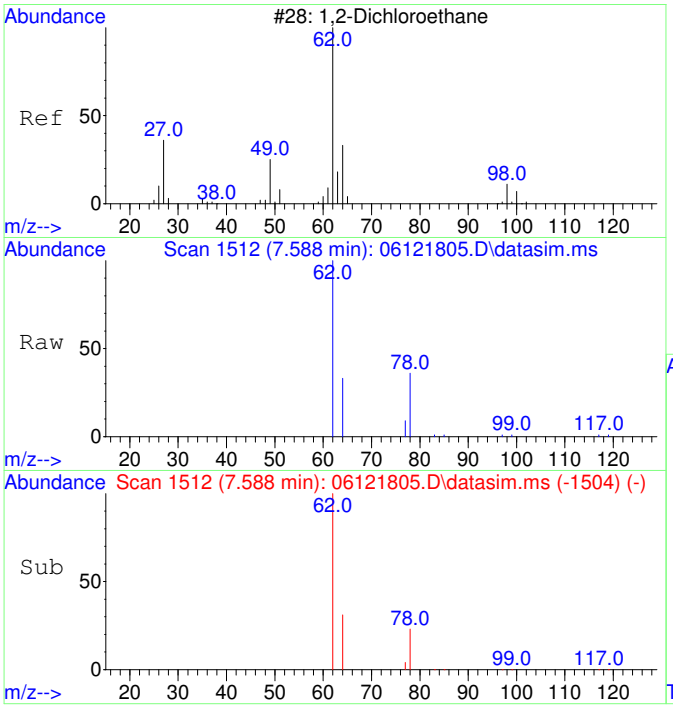


#9
Benzene
Concen: 4977.15 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 78 Resp: 100093

Ion	Ratio	Lower	Upper
78	100		
77	23.4	0.0	53.0

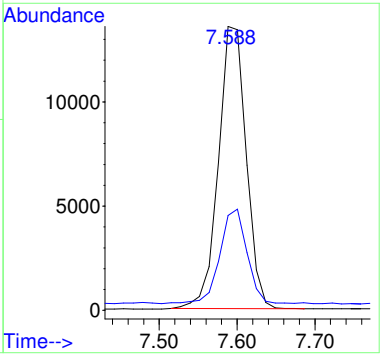


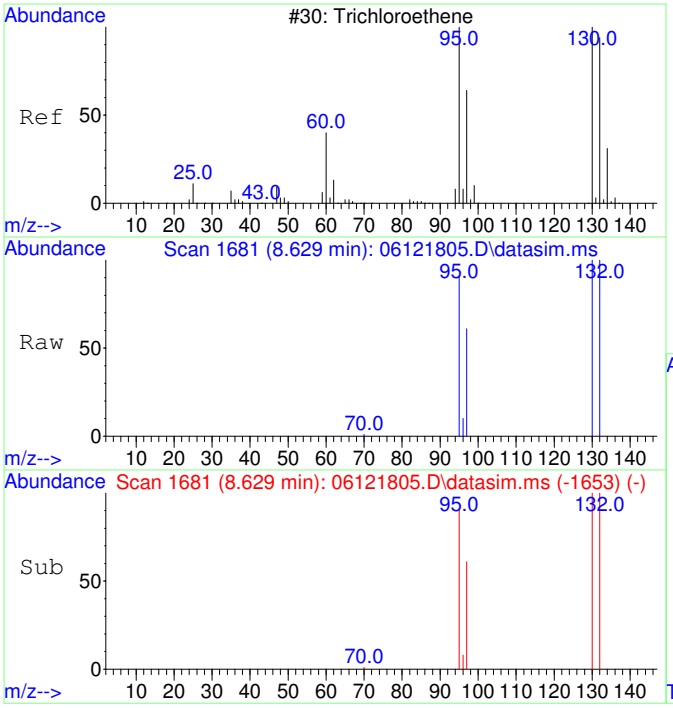


#10
1,2-Dichloroethane
Concen: 5174.63 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 62 Resp: 33538

Ion	Ratio	Lower	Upper
62	100		
64	31.9	2.3	62.3

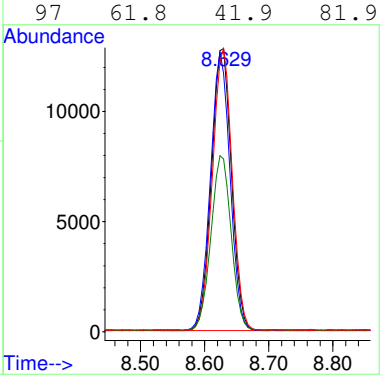


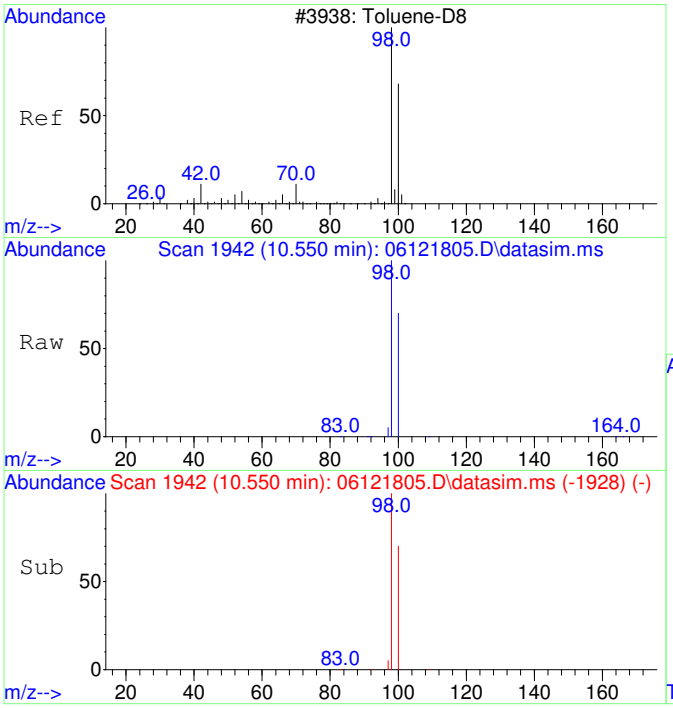


#11
Trichloroethene
Concen: 5044.71 ug/L
RT: 8.629 min Scan# 1681
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

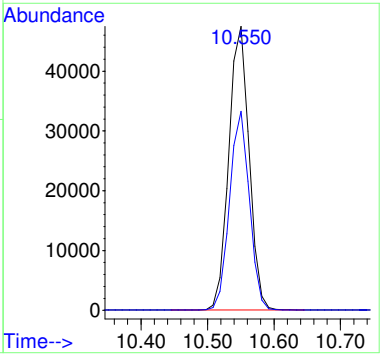


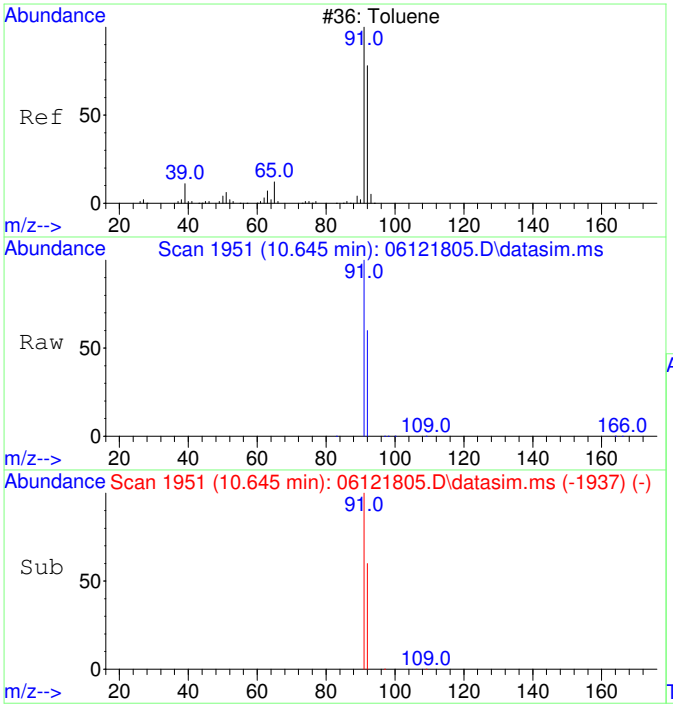


#12
Toluene-d8
Concen: 4918.23 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 98 Resp: 100060

Ion	Ratio	Lower	Upper
98	100		
100	68.3	38.7	98.7

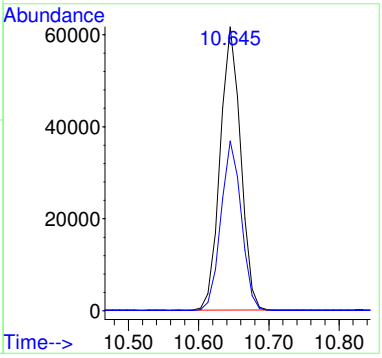


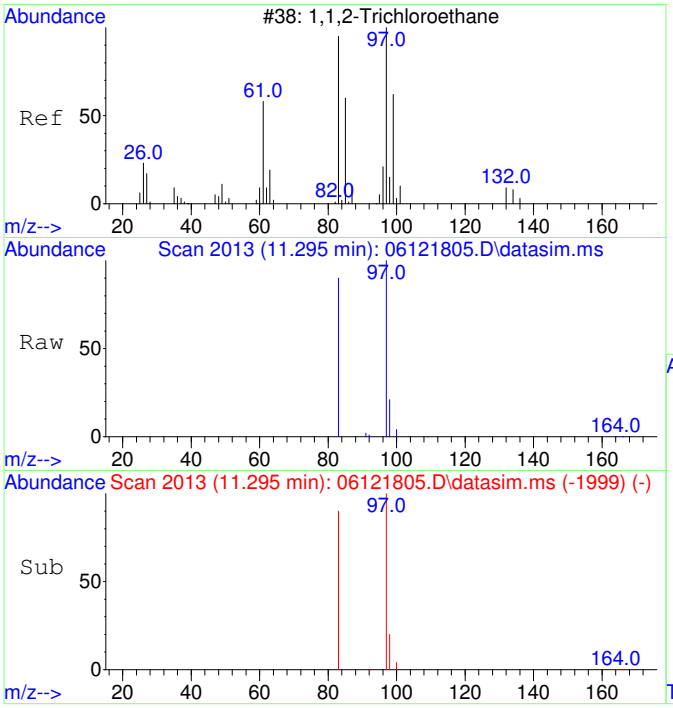


#13
Toluene
Concen: 4569.60 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 124649

Ion	Ratio	Lower	Upper
91	100		
92	59.6	30.0	90.0

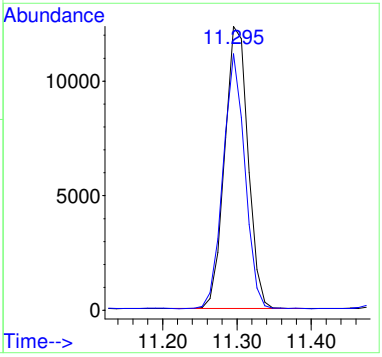


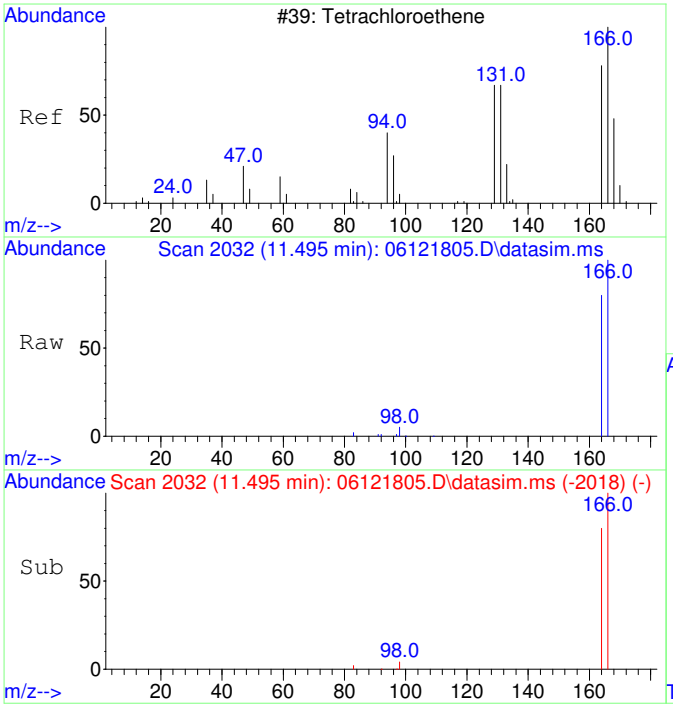


#14
1,1,2-Trichloroethane
Concen: 4739.91 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 97 Resp: 26724

Ion	Ratio	Lower	Upper
97	100		
83	84.5	53.4	113.4

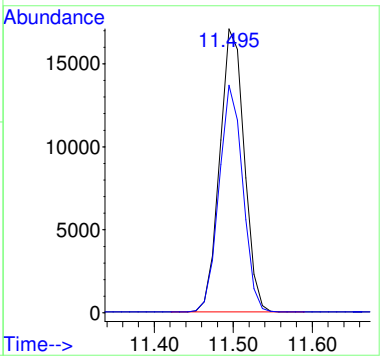


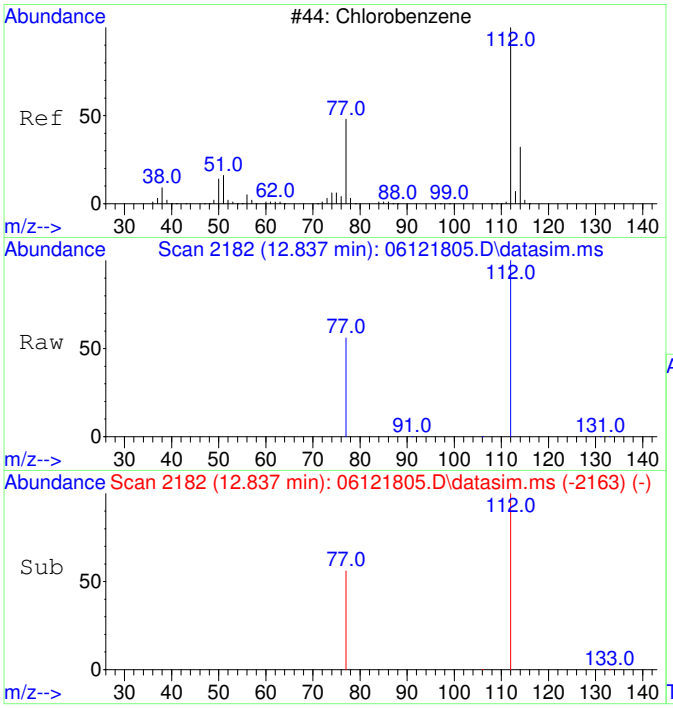


#15
Tetrachloroethene
Concen: 4758.63 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:166 Resp: 36572

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

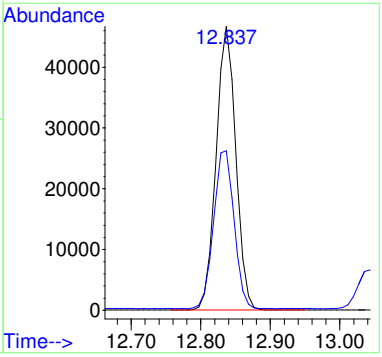


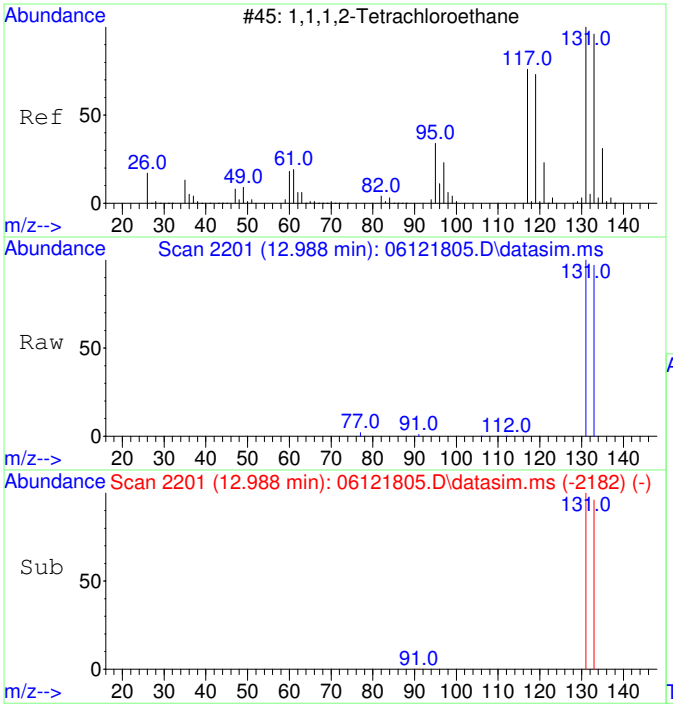


#16
Chlorobenzene
Concen: 4711.58 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:112 Resp: 91730

Ion	Ratio	Lower	Upper
112	100		
77	57.9	28.1	88.1

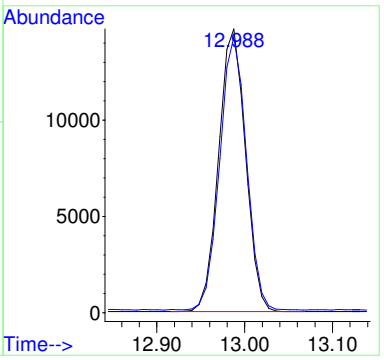


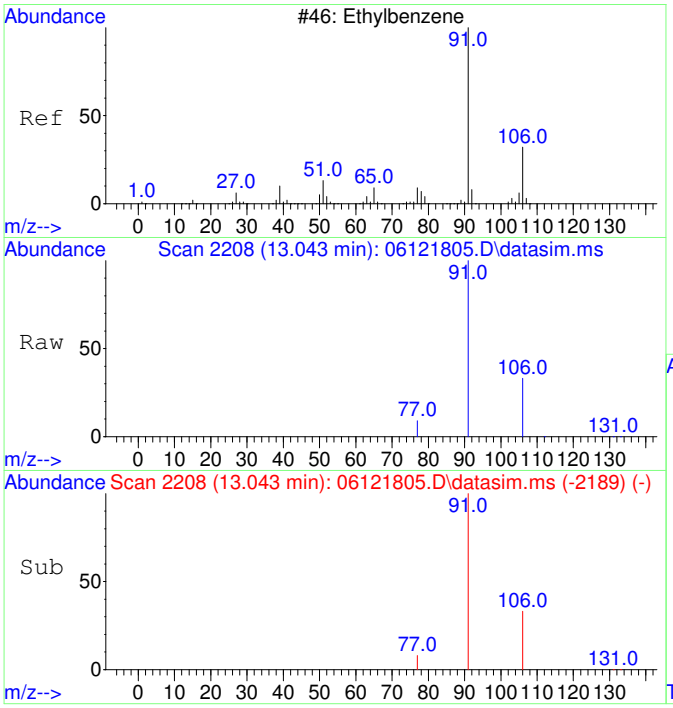


#17
1,1,1,2-Tetrachloroethane
Concen: 4703.56 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:131 Resp: 31077

Ion	Ratio	Lower	Upper
131	100		
133	96.2	66.2	126.2

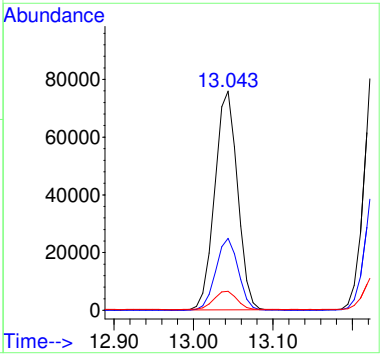


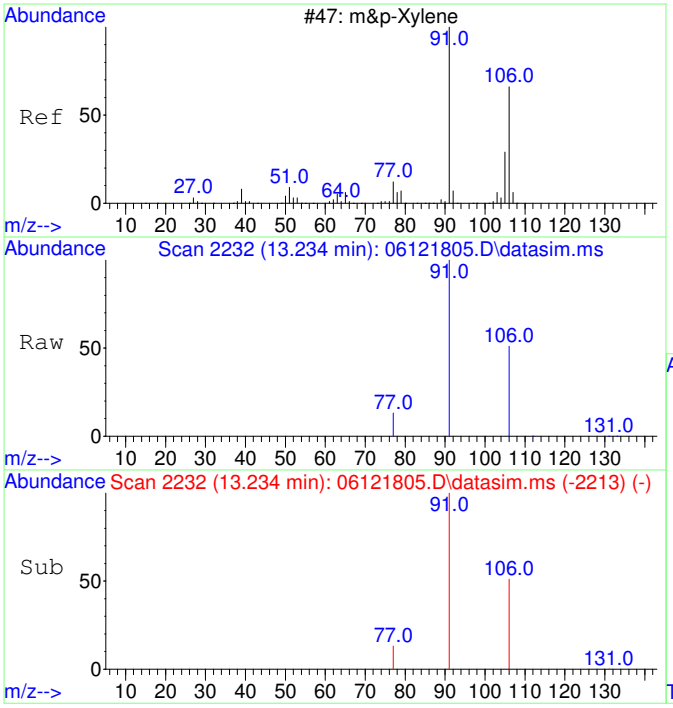


#18
Ethylbenzene
Concen: 4601.03 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

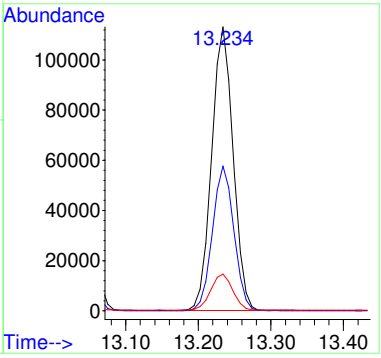


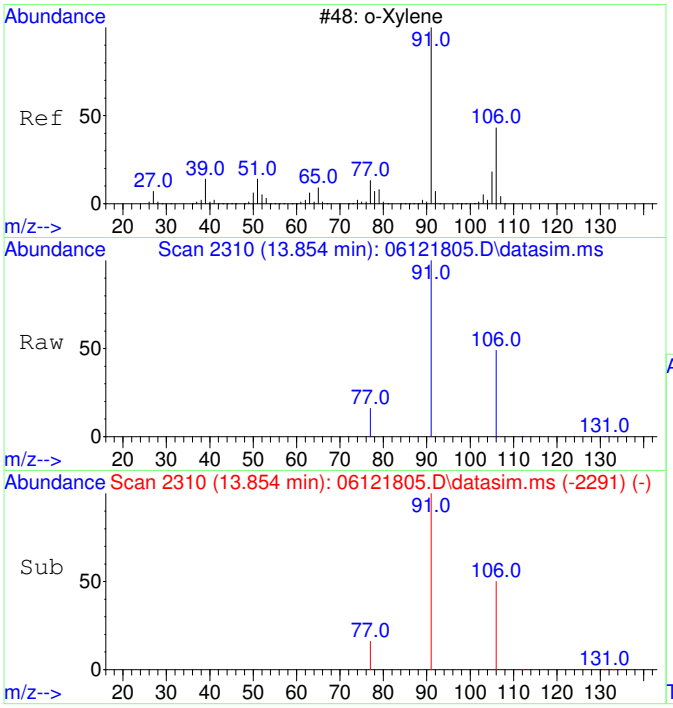


#19
m&p-Xylene
Concen: 9208.63 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

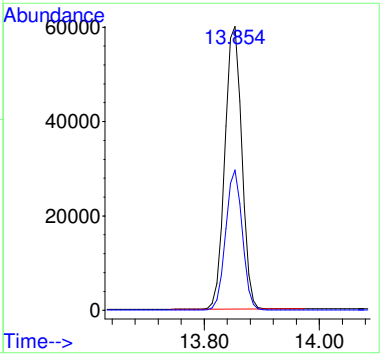


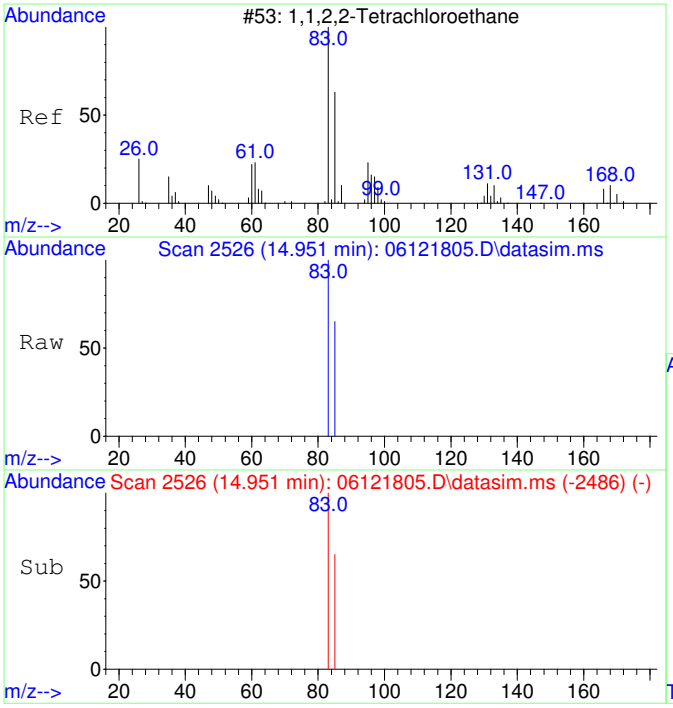


#20
o-Xylene
Concen: 4559.30 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 91 Resp: 121997

Ion	Ratio	Lower	Upper
91	100		
106	48.6	18.3	78.3

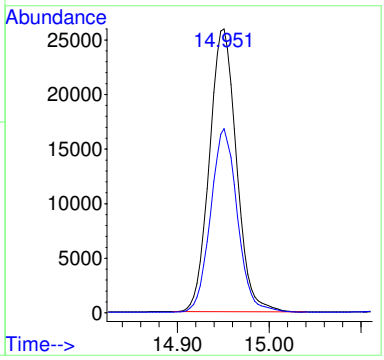


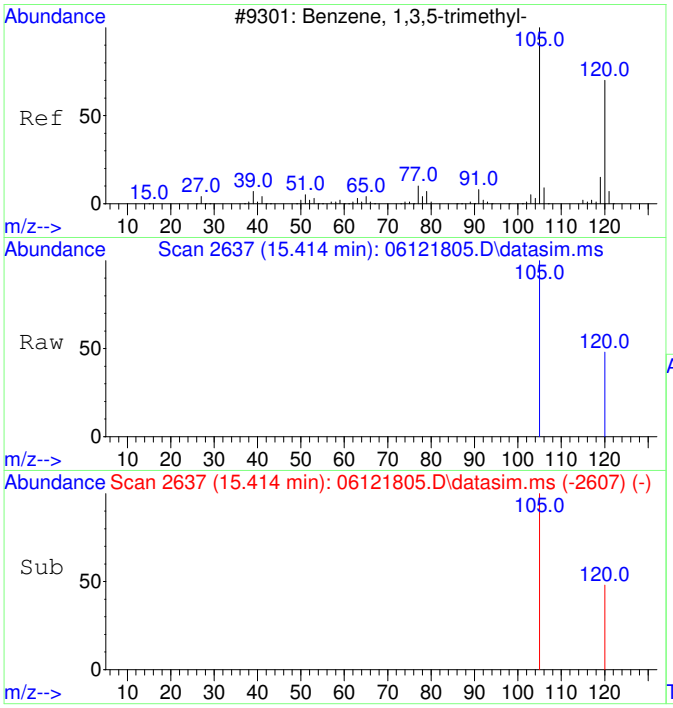


#21
1,1,2,2-Tetrachloroethane
Concen: 4615.48 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 83 Resp: 53187

Ion	Ratio	Lower	Upper
83	100		
85	64.1	34.4	94.4

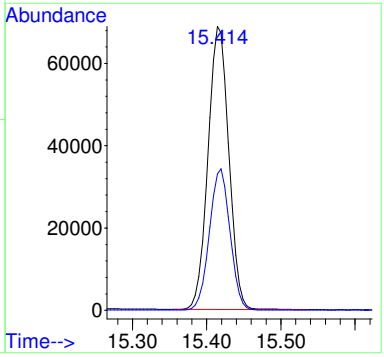


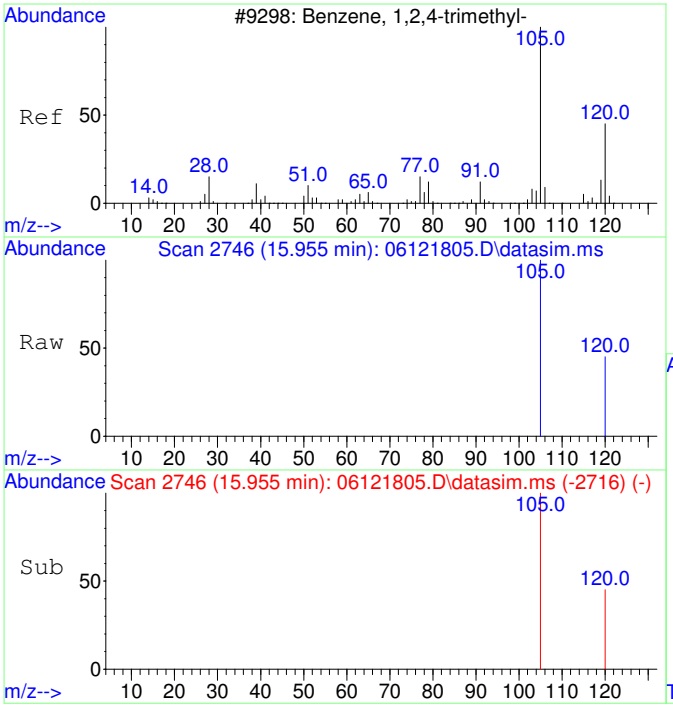


#22
1,3,5-Trimethylbenzene
Concen: 4420.48 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:105 Resp: 133833

Ion	Ratio	Lower	Upper
105	100		
120	49.2	19.1	79.1

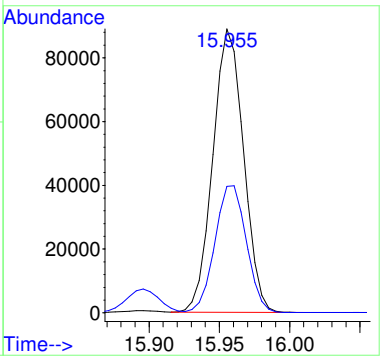


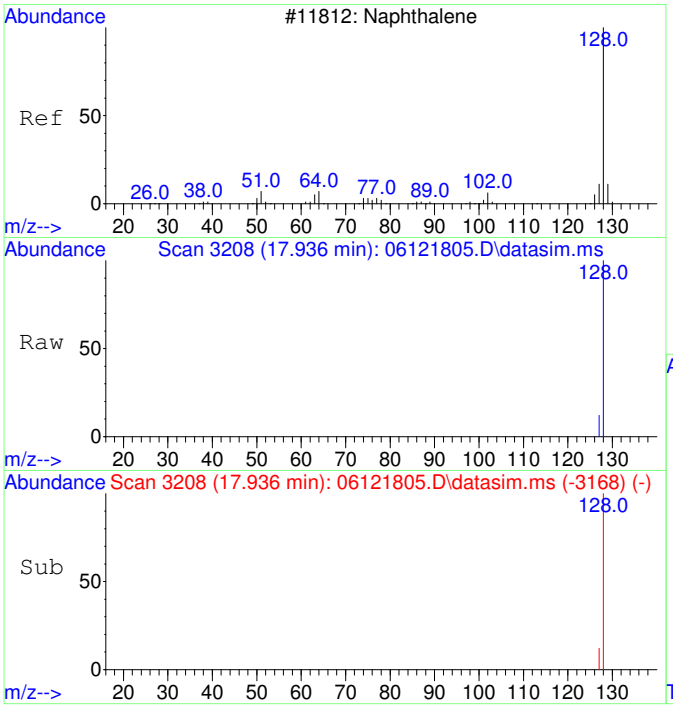


#23
1,2,4-Trimethylbenzene
Concen: 4448.74 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:105 Resp: 134728

Ion	Ratio	Lower	Upper
105	100		
120	45.4	15.5	75.5

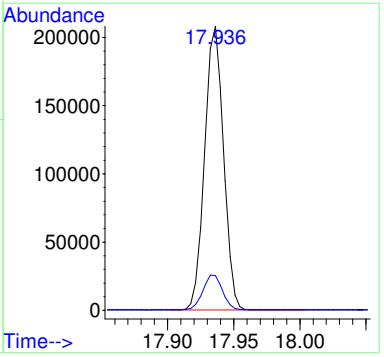


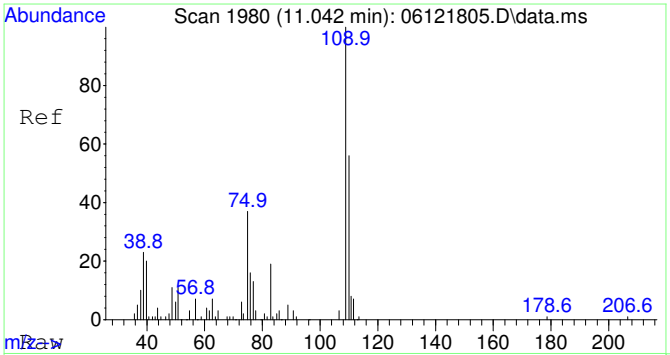


#24
Naphthalene
Concen: 4157.10 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:128 Resp: 206607

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.5

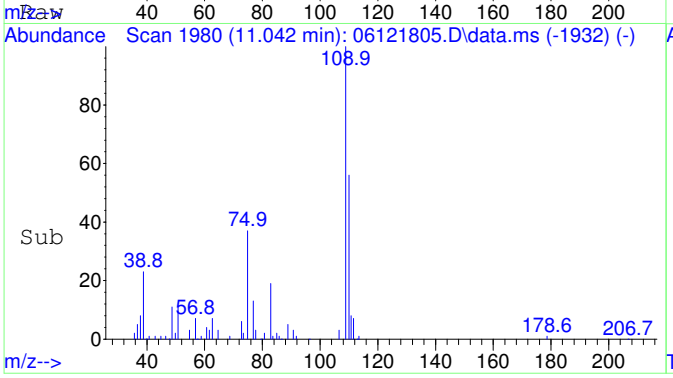


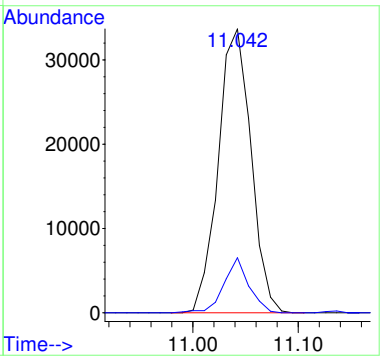


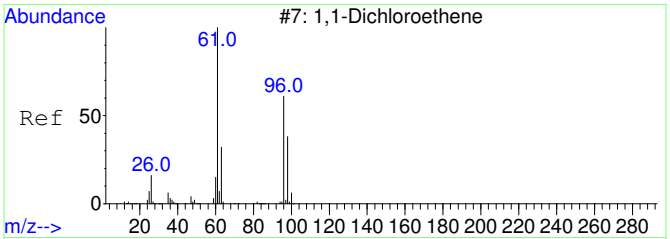
#25
2-Fluorotoluene SCAN
Concen: 5000.00 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion:109 Resp: 72976

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	45.7



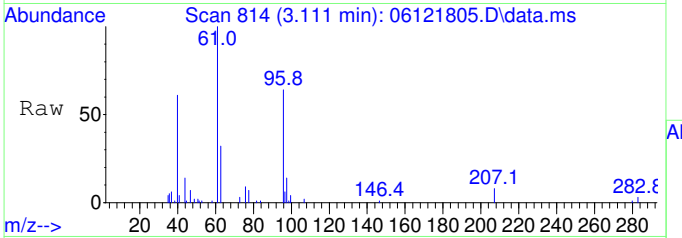


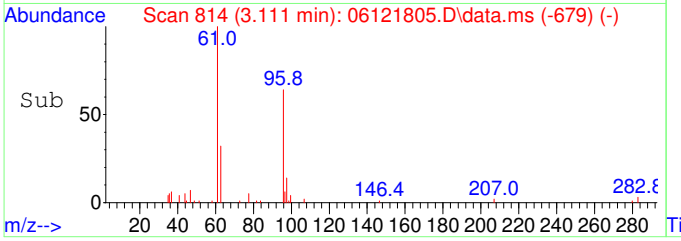


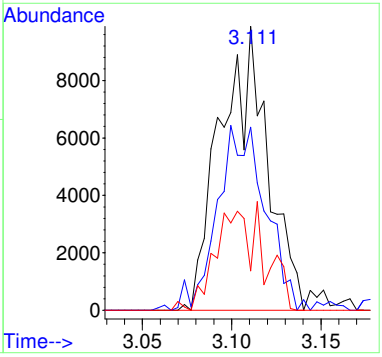
#26
1,1-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 3.111 min Scan# 814
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

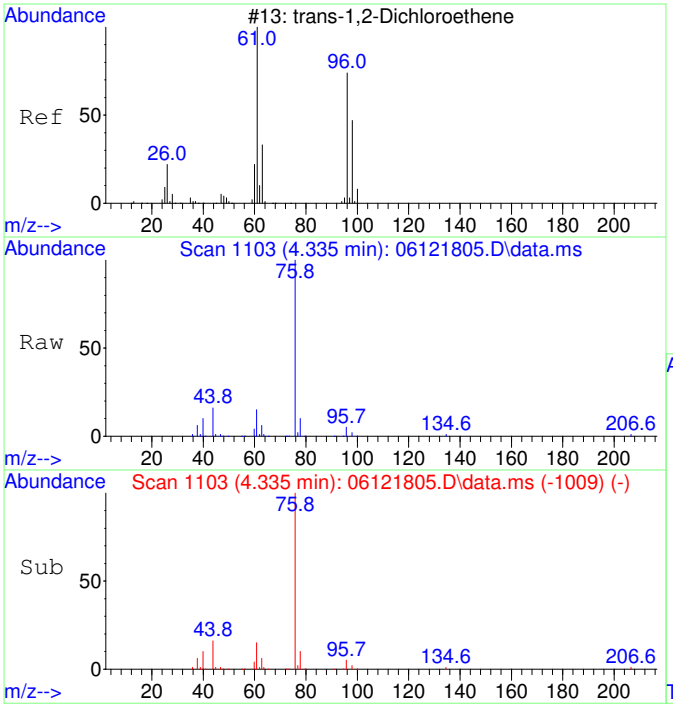
Tgt Ion: 61 Resp: 18210

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





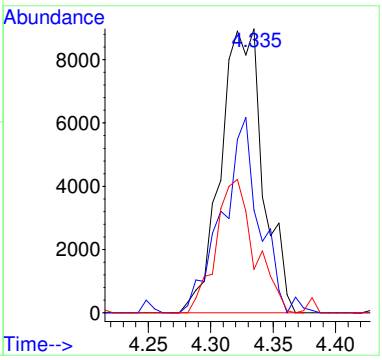


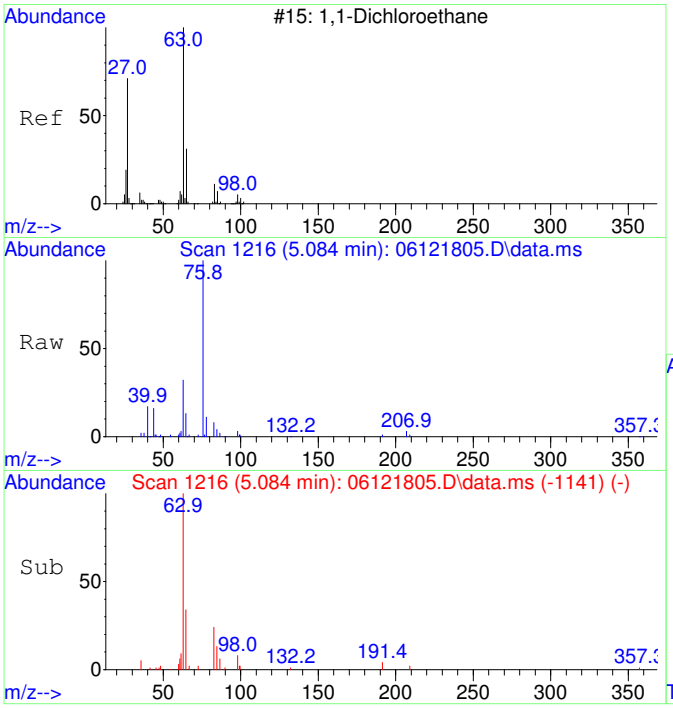


#27
trans-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

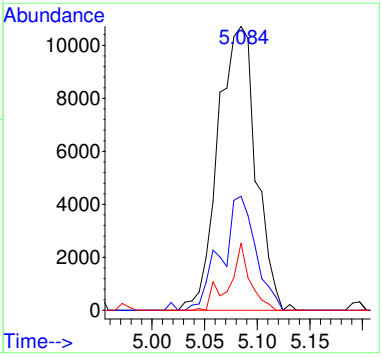


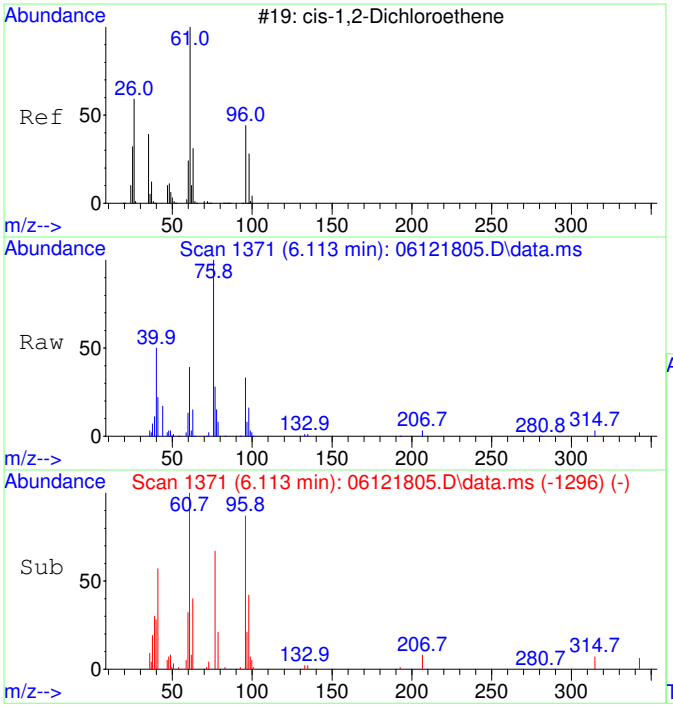


#28
1,1-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

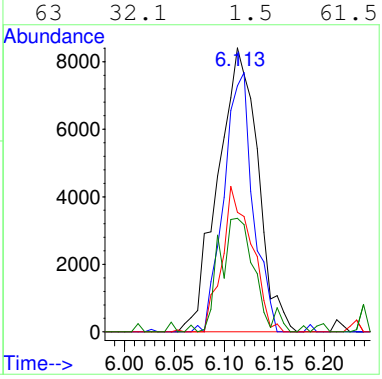


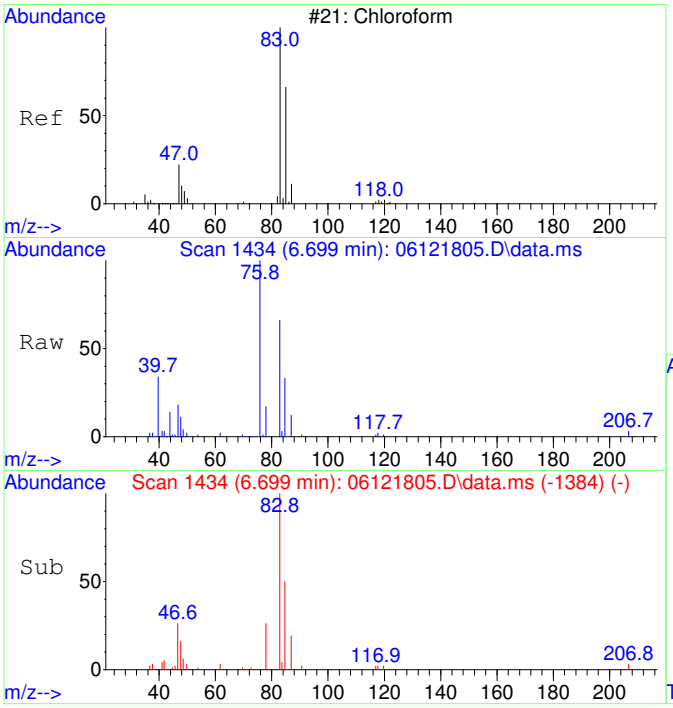


#29
cis-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

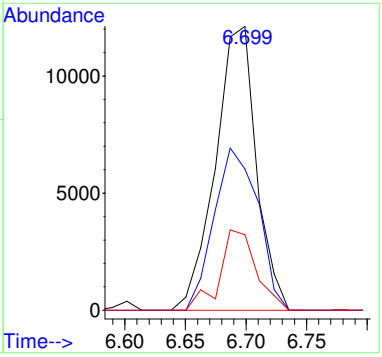


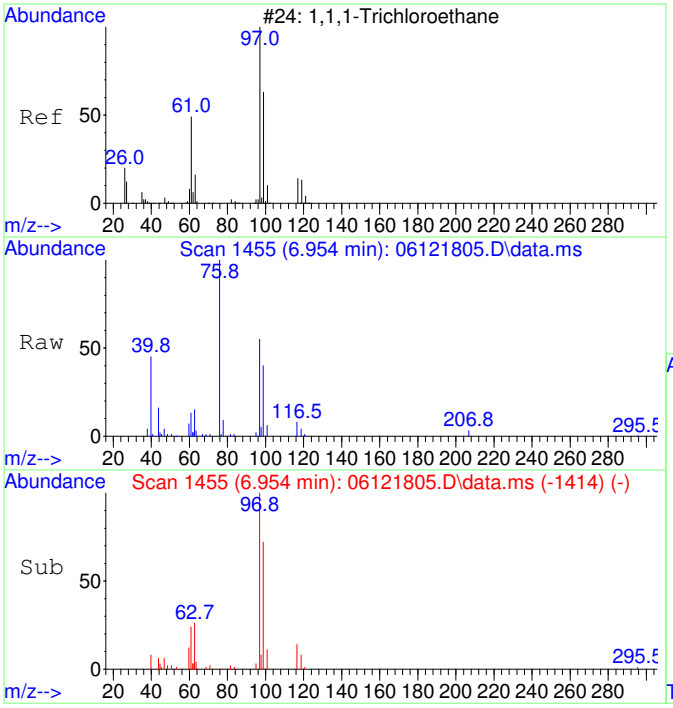


#30
Chloroform SCAN
Concen: 5000.00 ug/L
RT: 6.699 min Scan# 1434
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

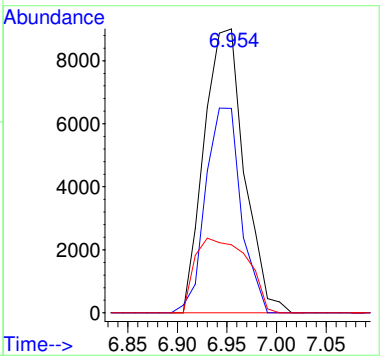


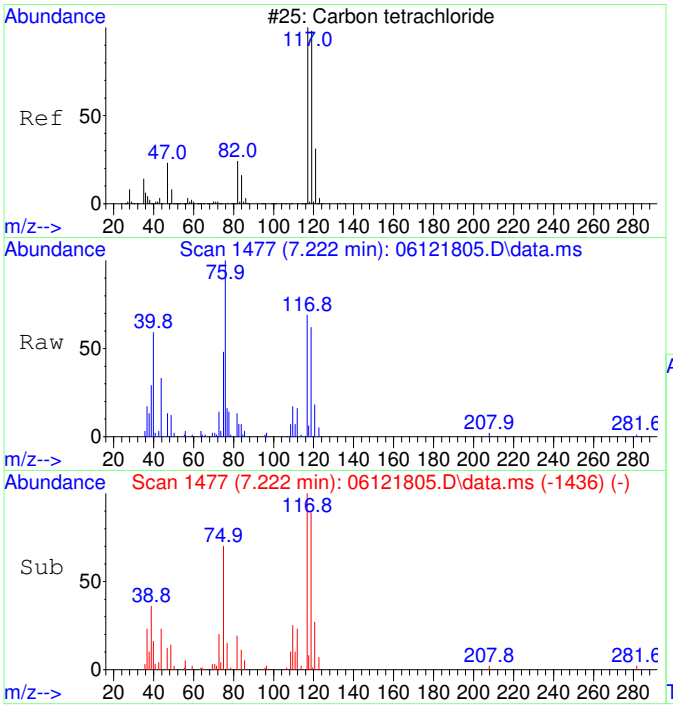


#31
1,1,1-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 6.954 min Scan# 1455
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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#

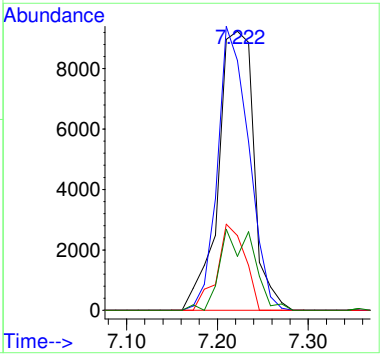


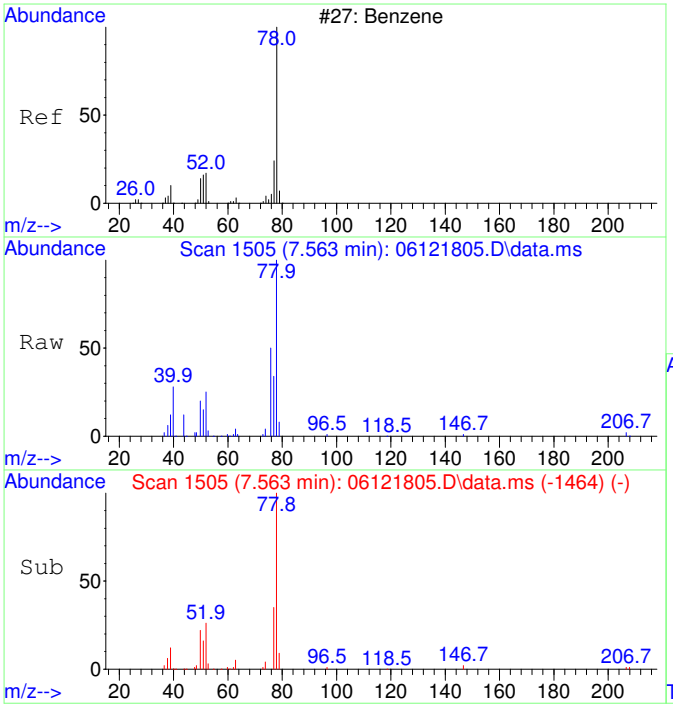


#32
Carbon tetrachloride SCAN
Concen: 5000.00 ug/L
RT: 7.222 min Scan# 1477
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

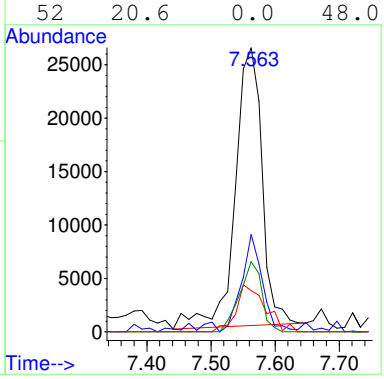


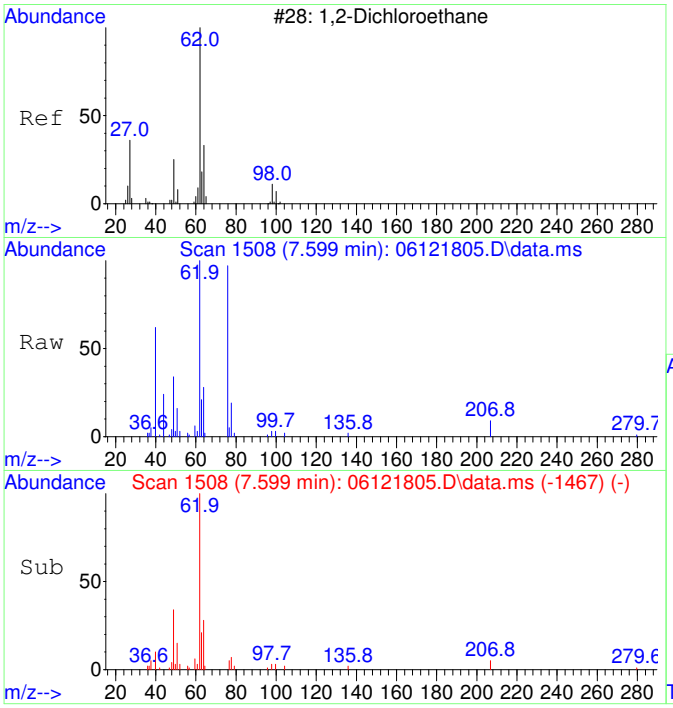


#33
Benzene SCAN
Concen: 5000.00 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

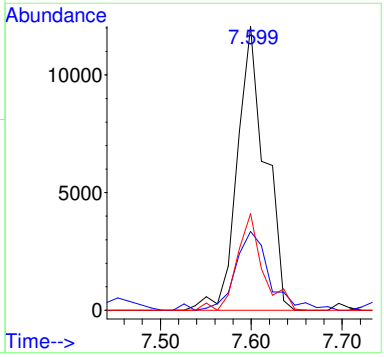


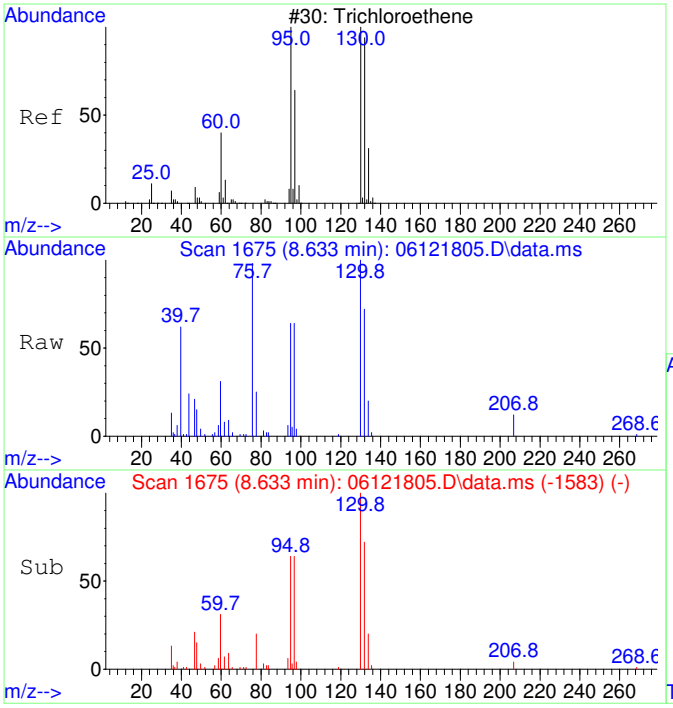


#34
1,2-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

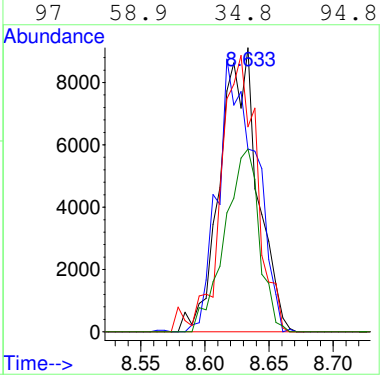


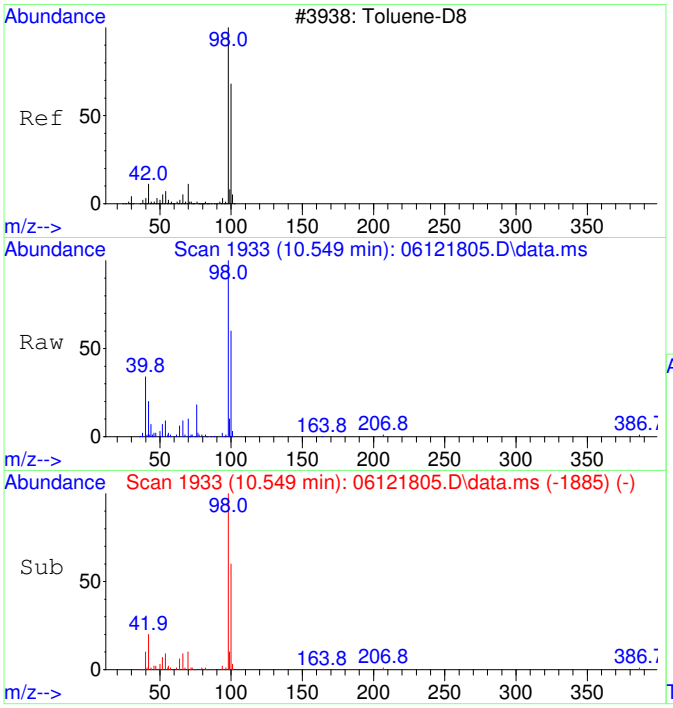


#35
Trichloroethene SCAN
Concen: 5000.00 ug/L
RT: 8.633 min Scan# 1675
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

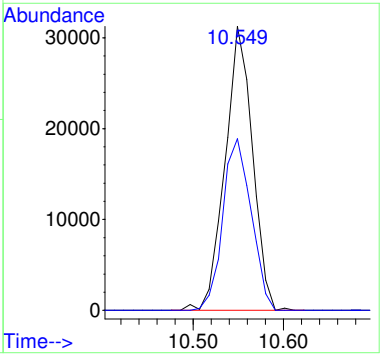


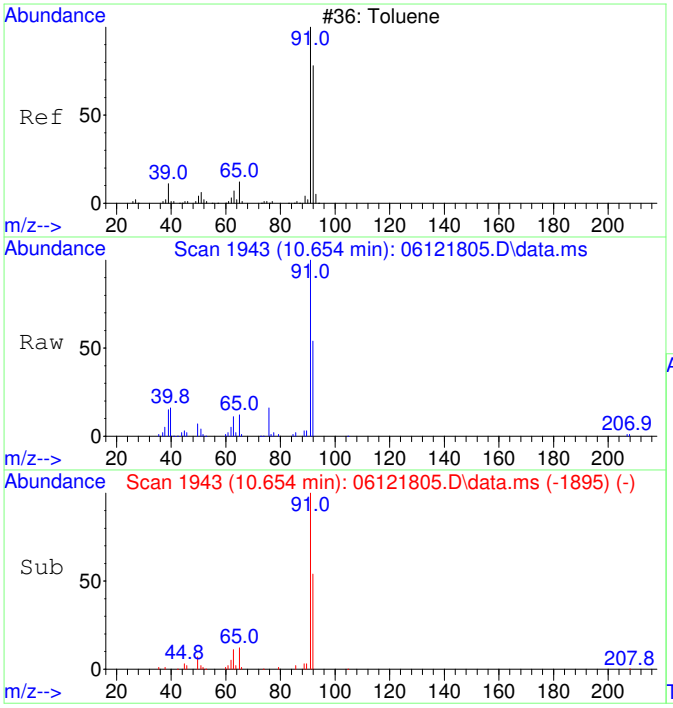


#36
Toluene-d8 SCAN
Concen: 5000.00 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

Tgt Ion: 98 Resp: 65970

Ion	Ratio	Lower	Upper
98	100		
100	62.6	39.5	99.5

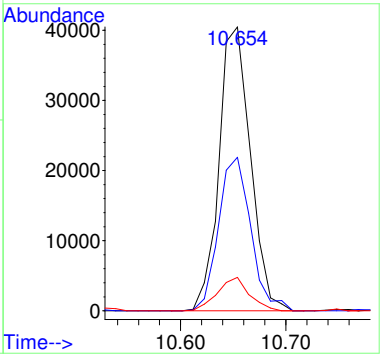


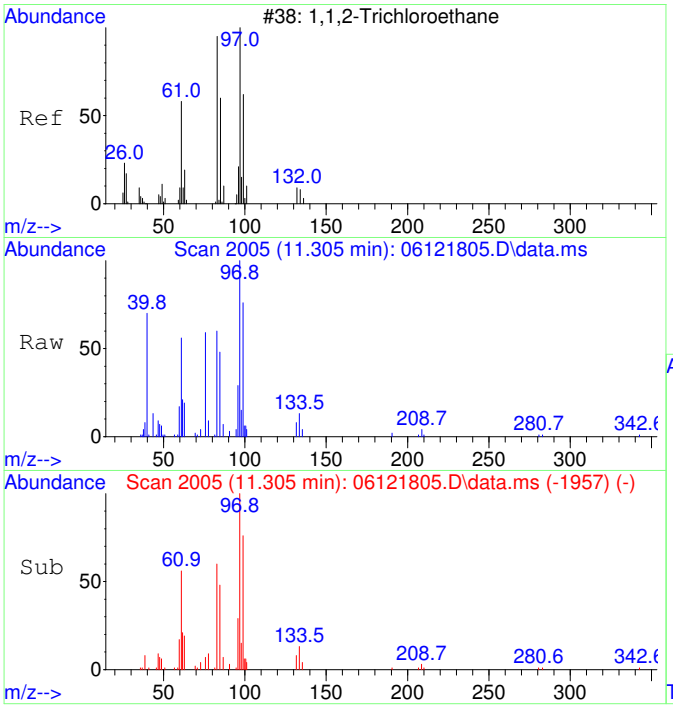


#37
Toluene SCAN
Concen: 5000.00 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

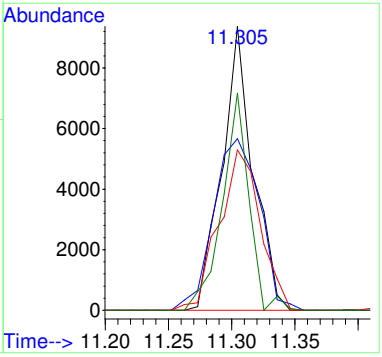


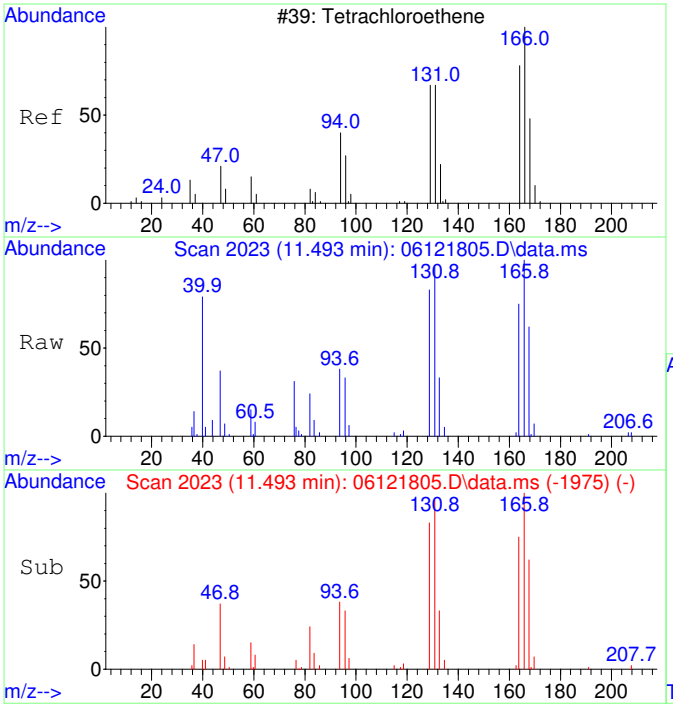


#38
1,1,2-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 11.305 min Scan# 2005
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

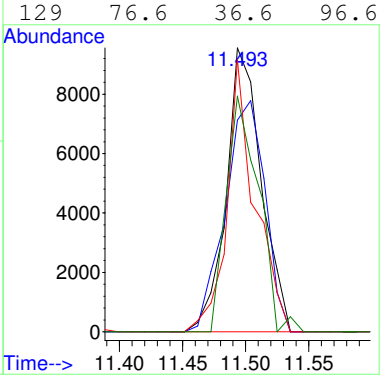


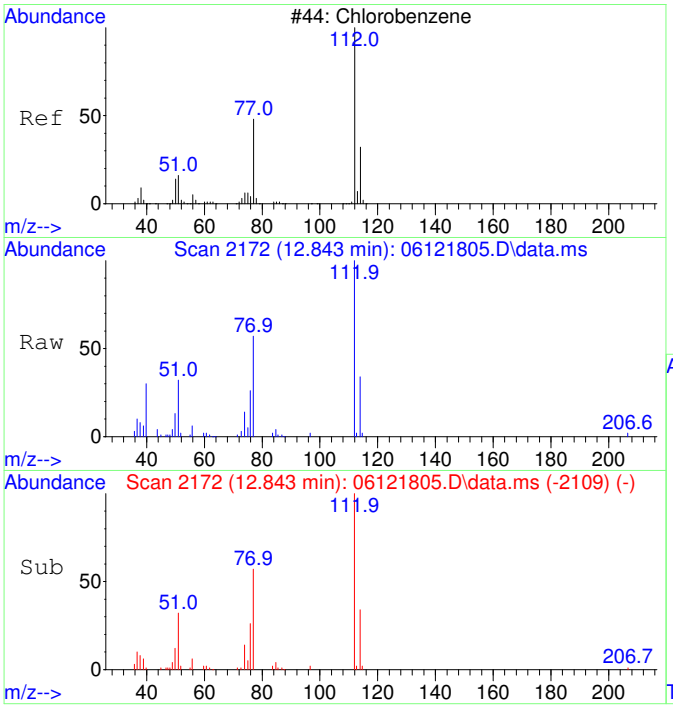


#39
Tetrachloroethene SCAN
Concen: 5000.00 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

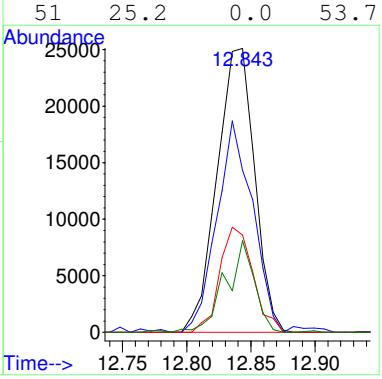


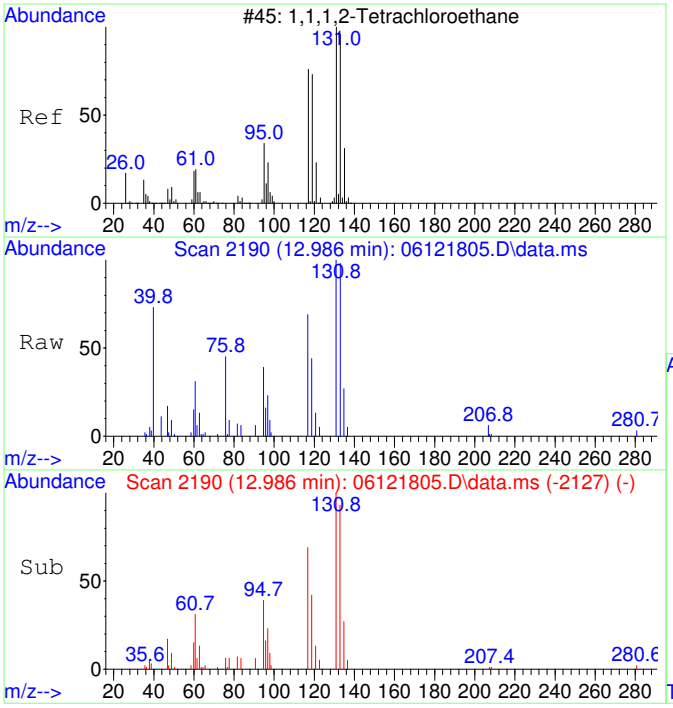


#40
Chlorobenzene SCAN
Concen: 5000.00 ug/L
RT: 12.843 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

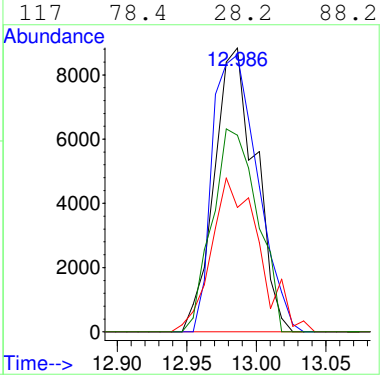


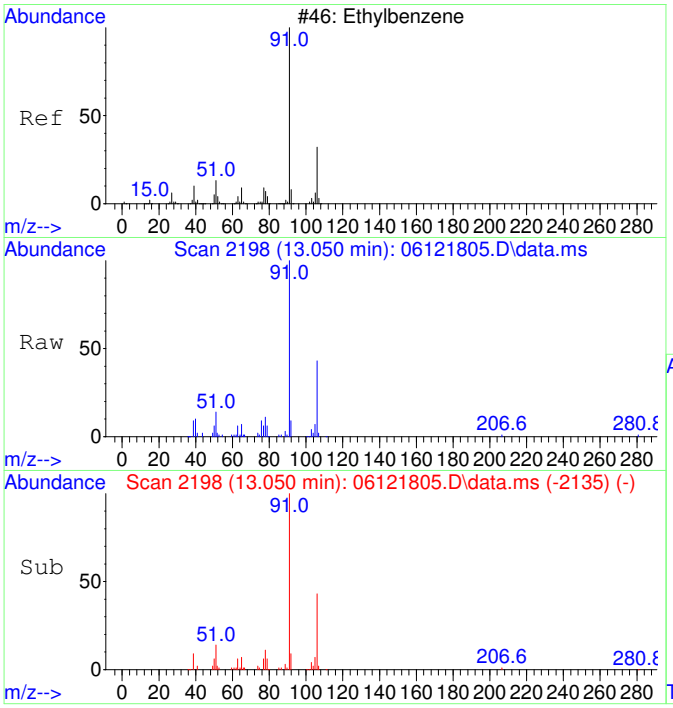


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 12.986 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

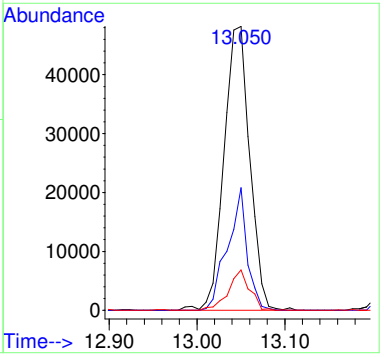


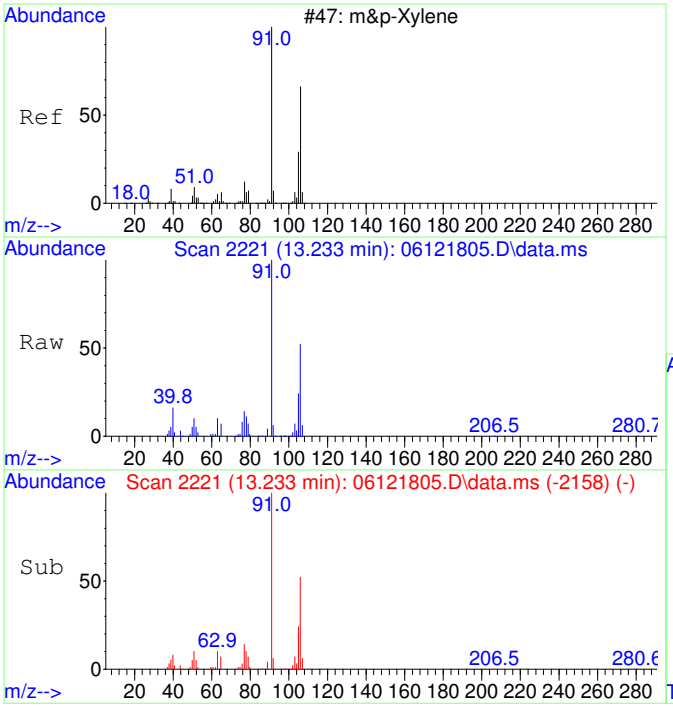


#42
Ethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 13.050 min Scan# 2198
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

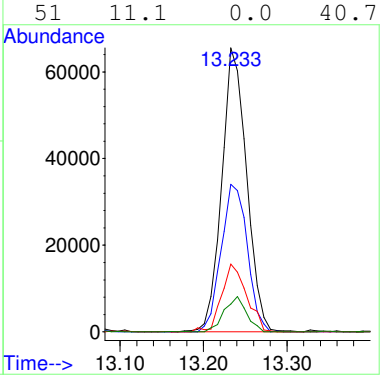


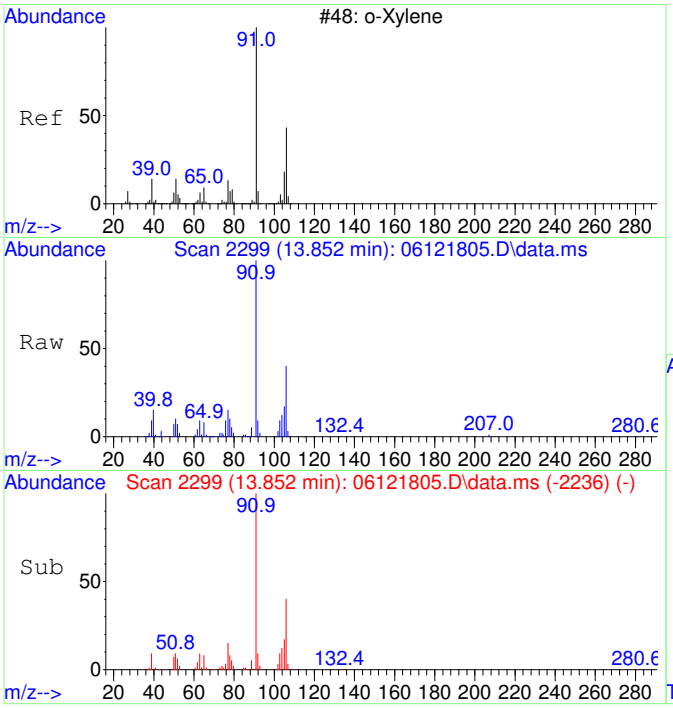


#43
m&p-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

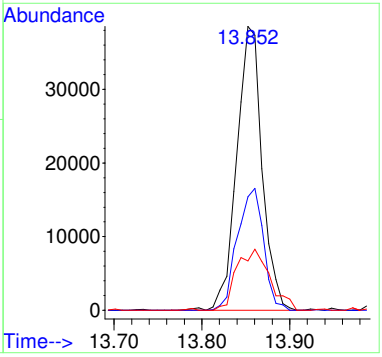


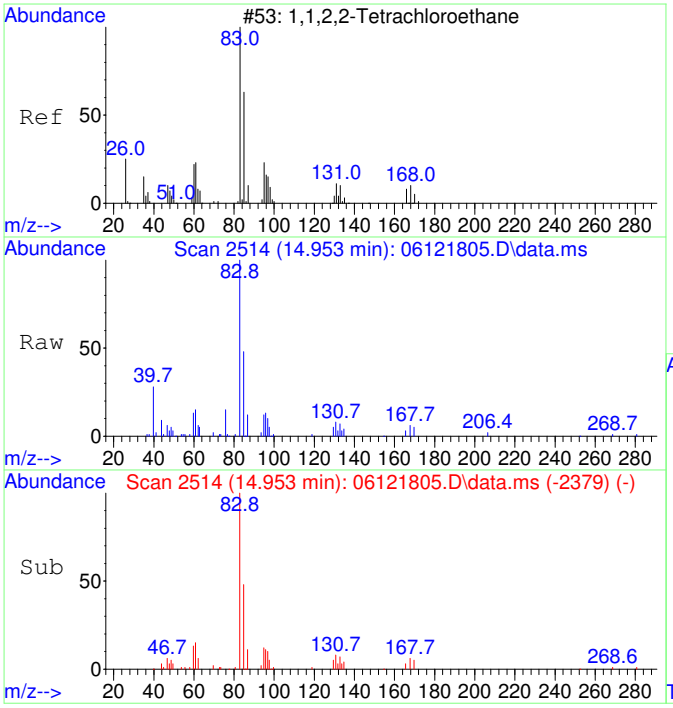


#44
o-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

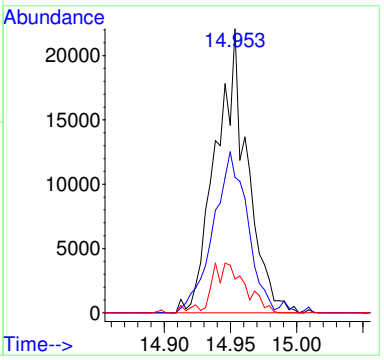


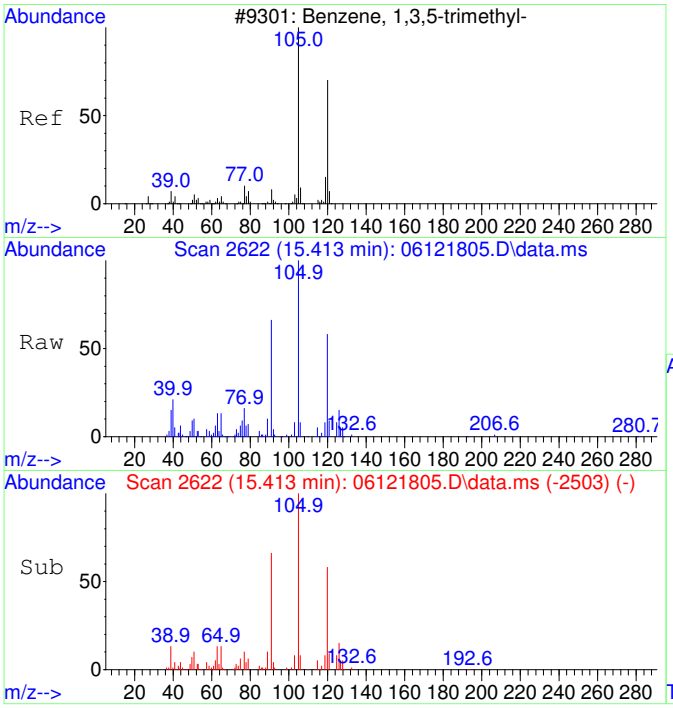


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

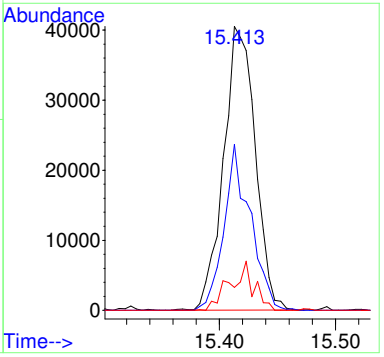


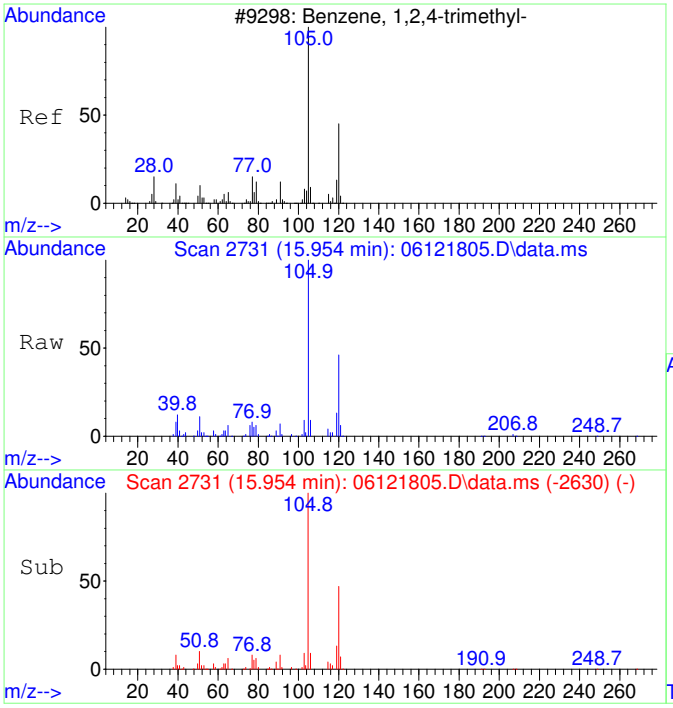


#46
1,3,5-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

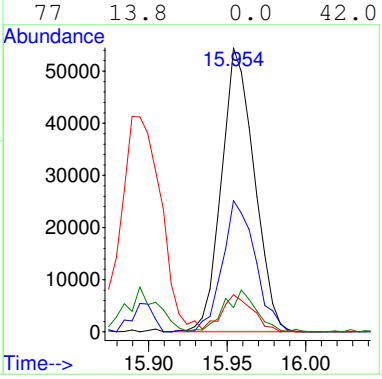


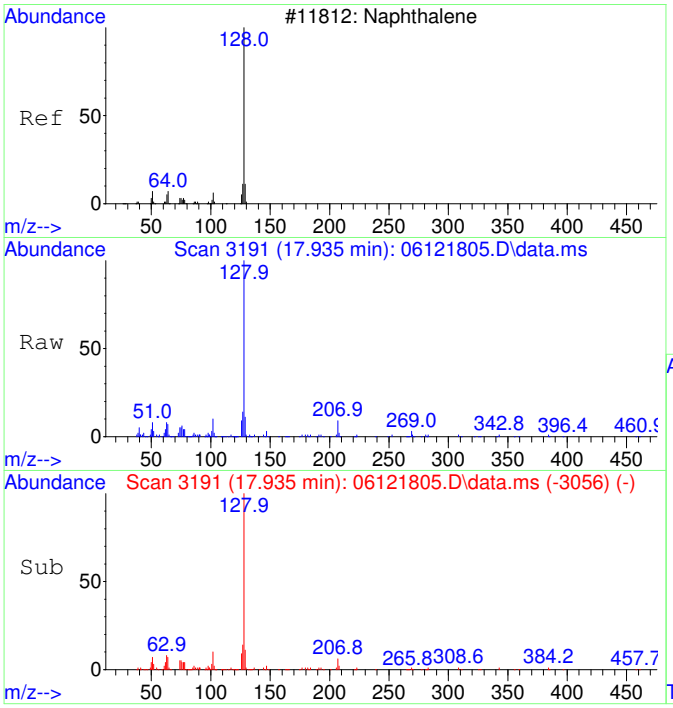


#47
1,2,4-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

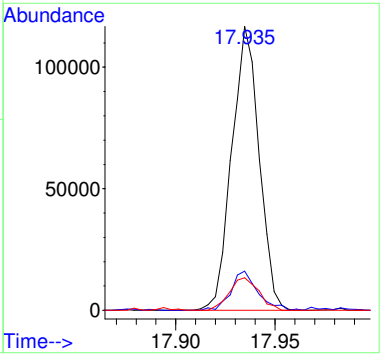




#48
Naphthalene SCAN
Concen: 5000.00 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. 0.000 min
Lab File: 06121805.D
Acq: 12 Jun 2018 14:31

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

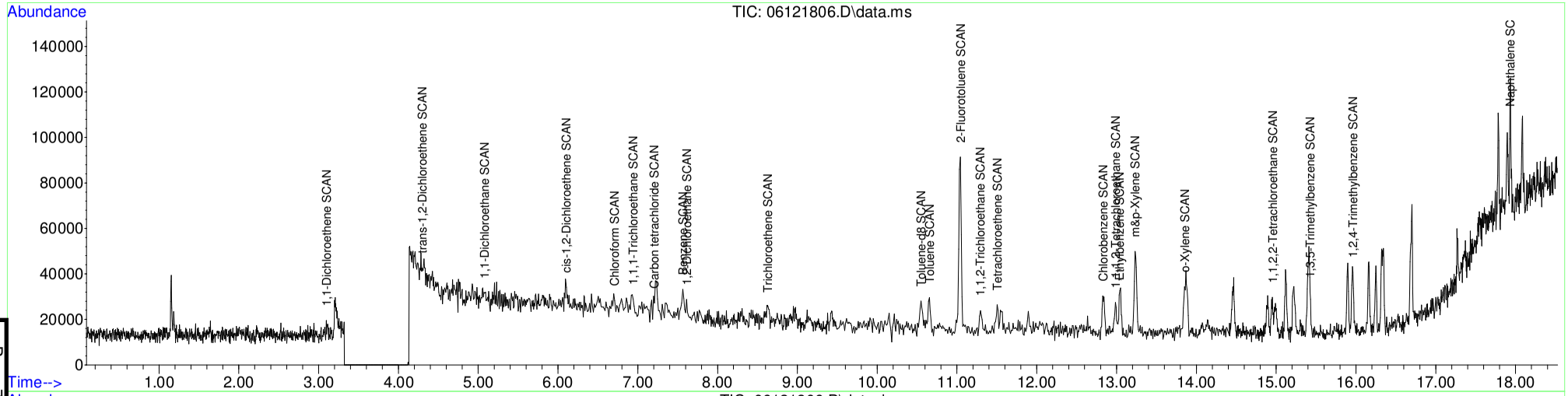
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	93886	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	15581	1021.71	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 20.43%#			
Target Compounds						Qvalue
2] 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

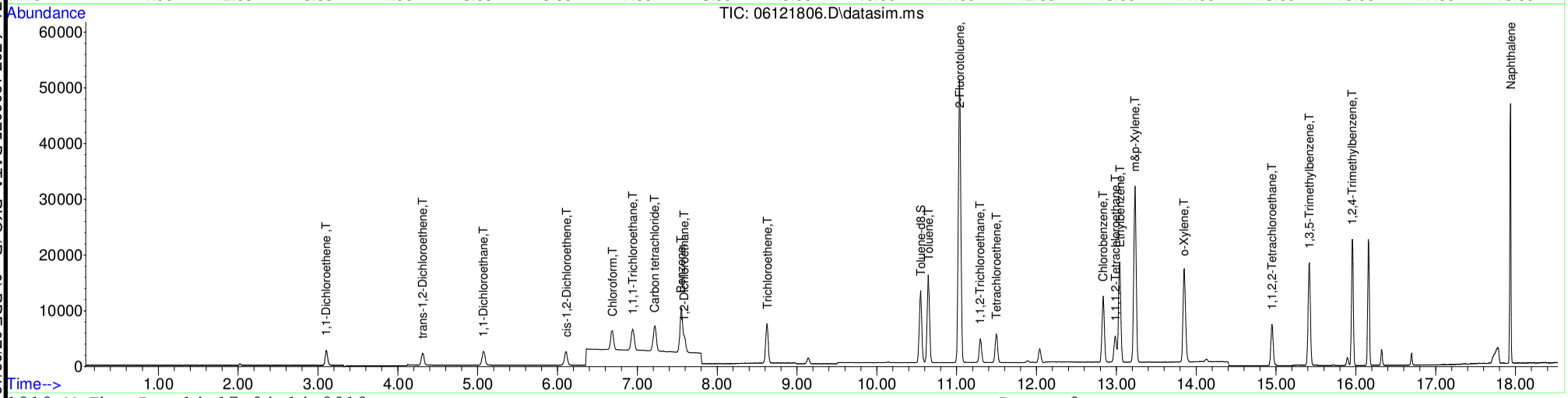
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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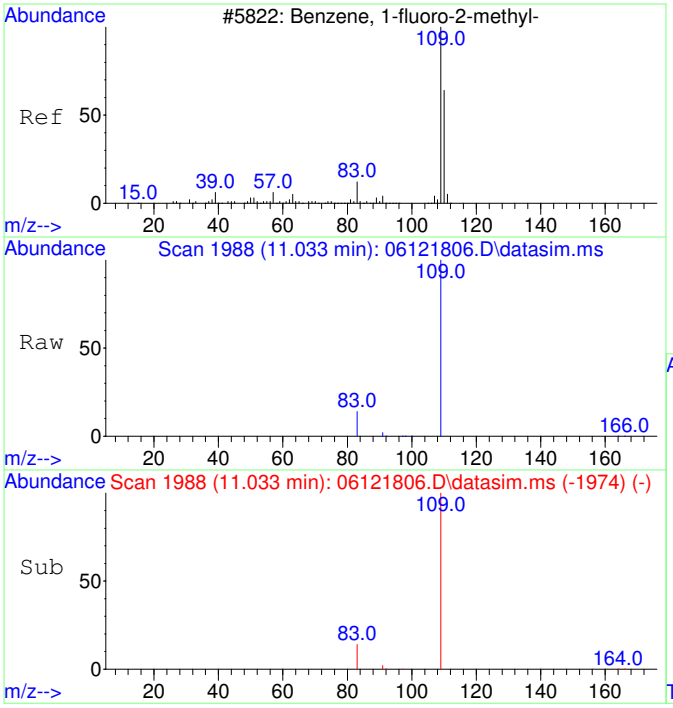
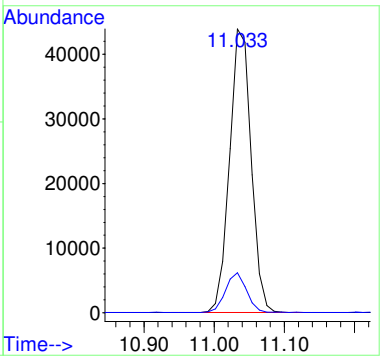
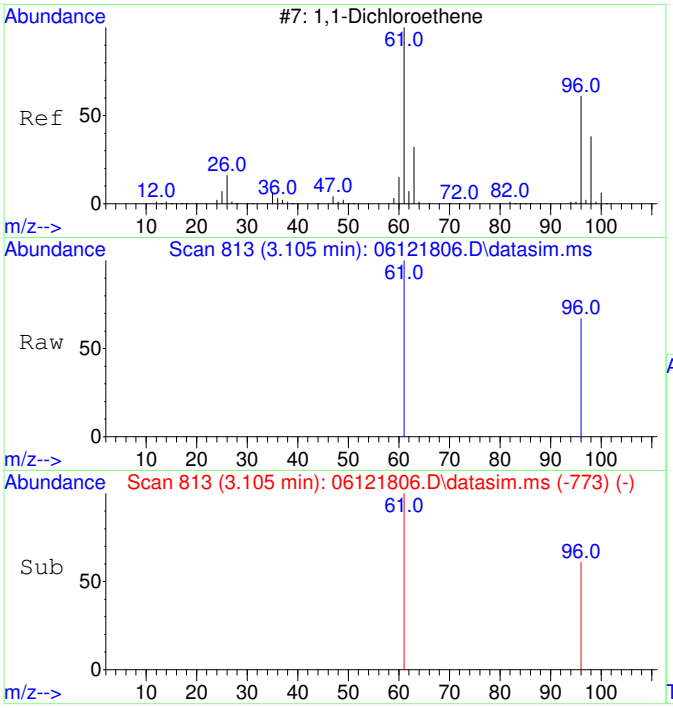


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:109 Resp: 93886

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.7

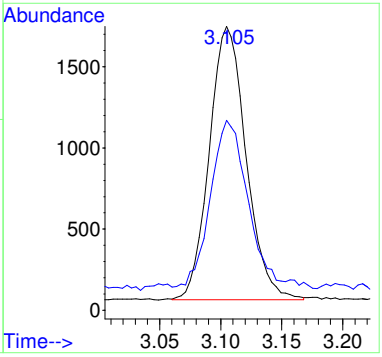


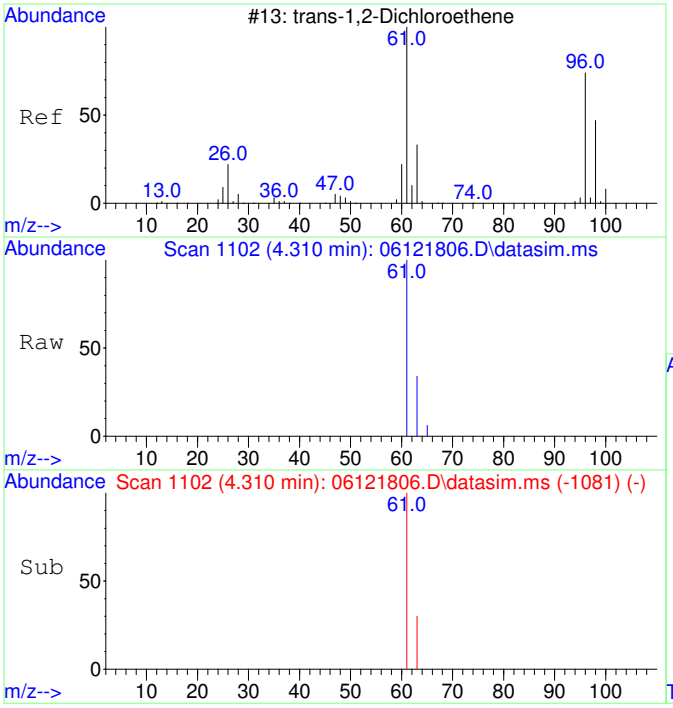


#2
1,1-Dichloroethene
Concen: 880.06 ug/L m
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3535

Ion	Ratio	Lower	Upper
61	100		
96	70.6	28.7	88.7

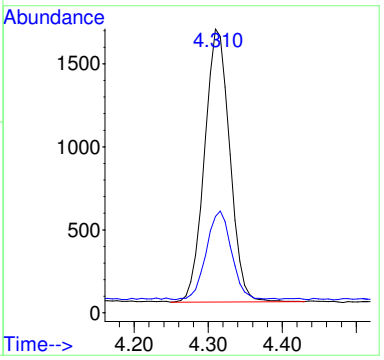


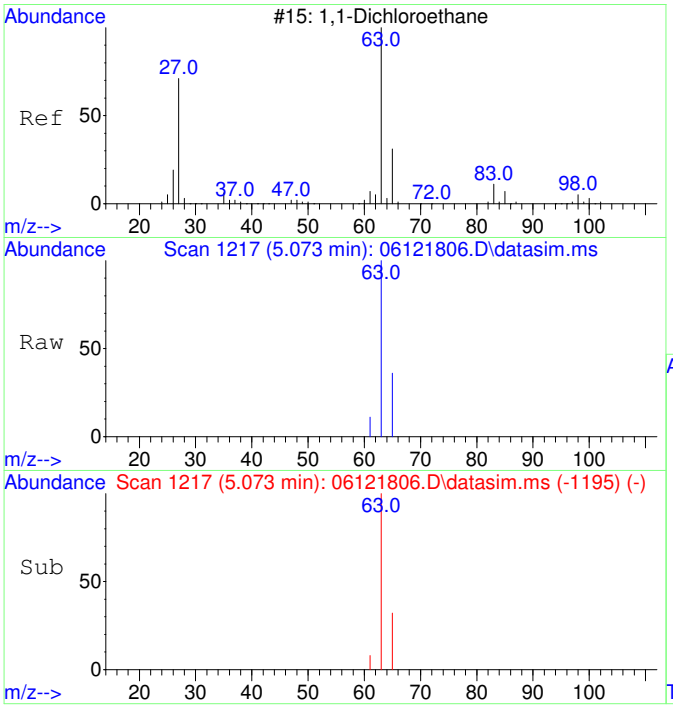


#3
trans-1,2-Dichloroethene
Concen: 927.55 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3894

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.0	62.0

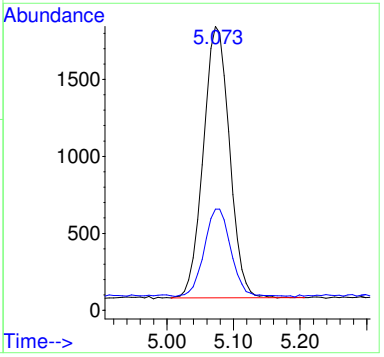


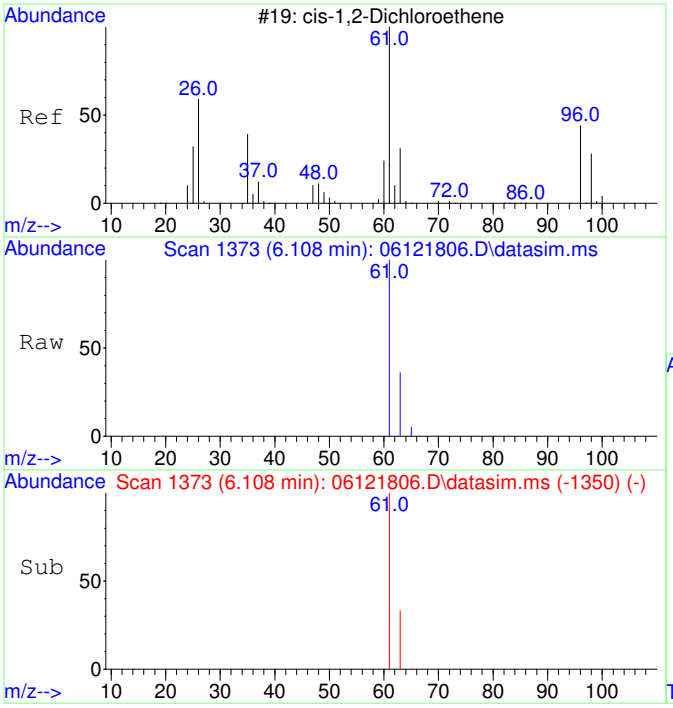


#4
1,1-Dichloroethane
Concen: 920.91 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 63 Resp: 4812

Ion	Ratio	Lower	Upper
63	100		
65	33.2	1.5	61.5

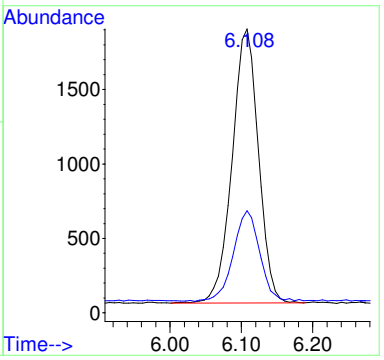


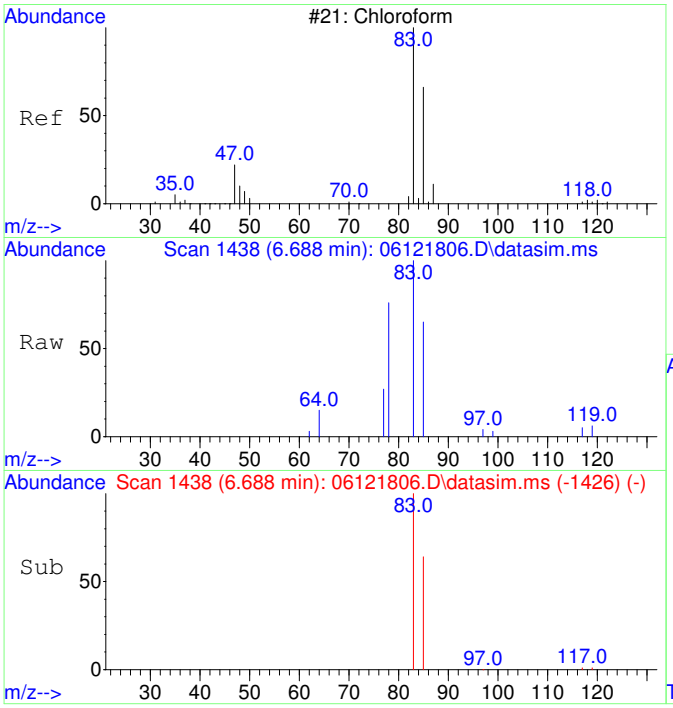


#5
cis-1,2-Dichloroethene
Concen: 915.08 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 4717

Ion	Ratio	Lower	Upper
61	100		
63	32.7	2.2	62.2

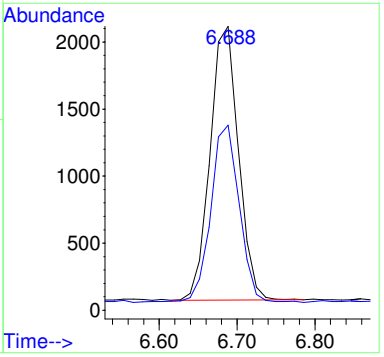


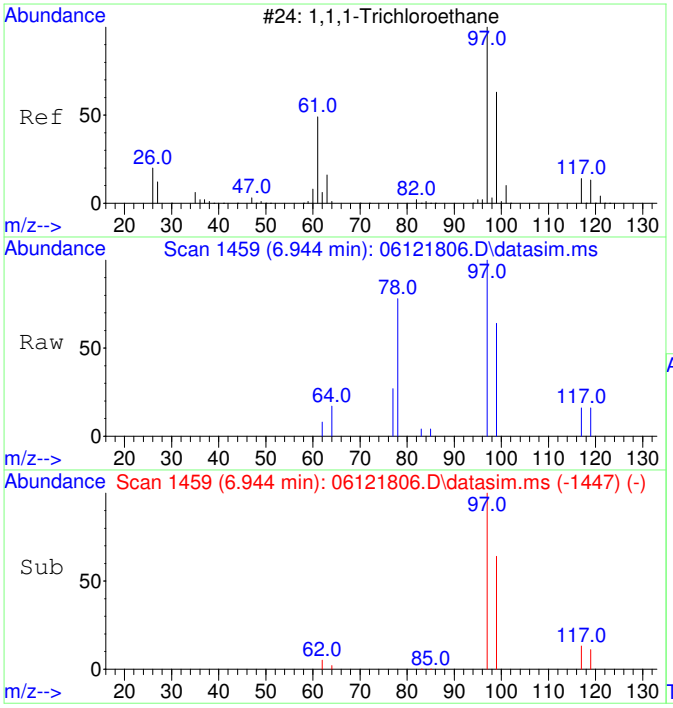


#6
Chloroform
Concen: 930.38 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 5164

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.8	94.8

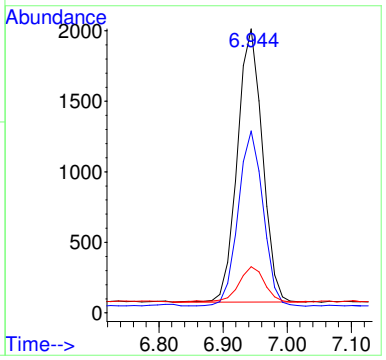


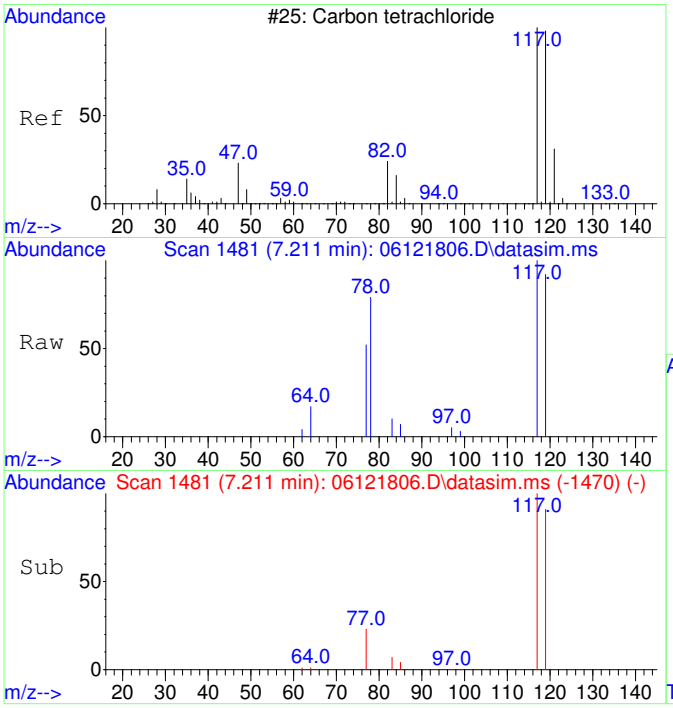


#7
1,1,1-Trichloroethane
Concen: 960.24 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

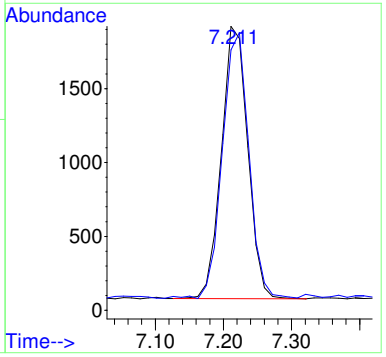


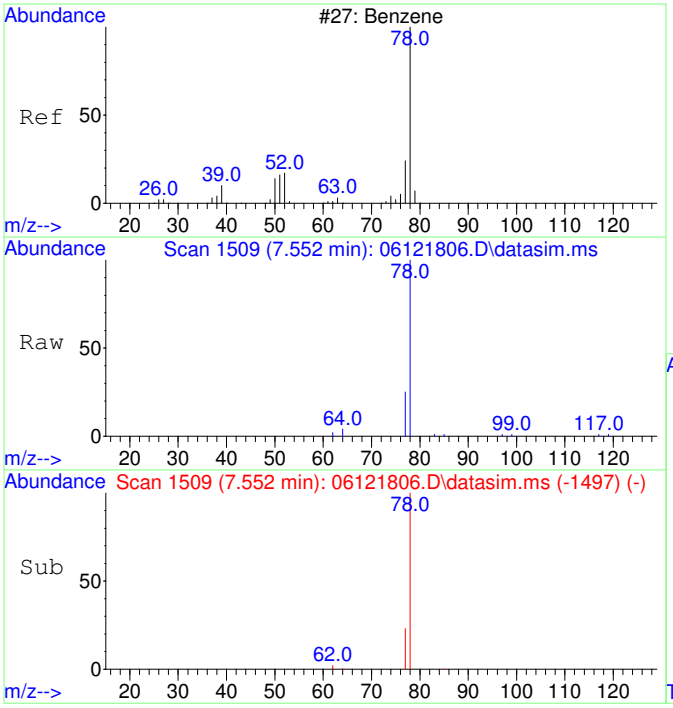


#8
Carbon tetrachloride
Concen: 952.27 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:117 Resp: 4928

Ion	Ratio	Lower	Upper
117	100		
119	97.0	65.9	125.9

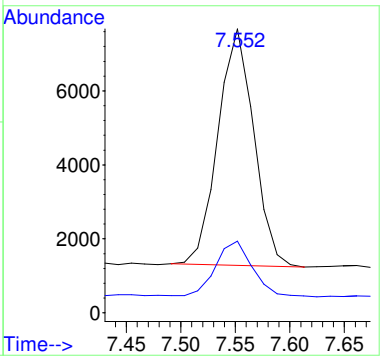


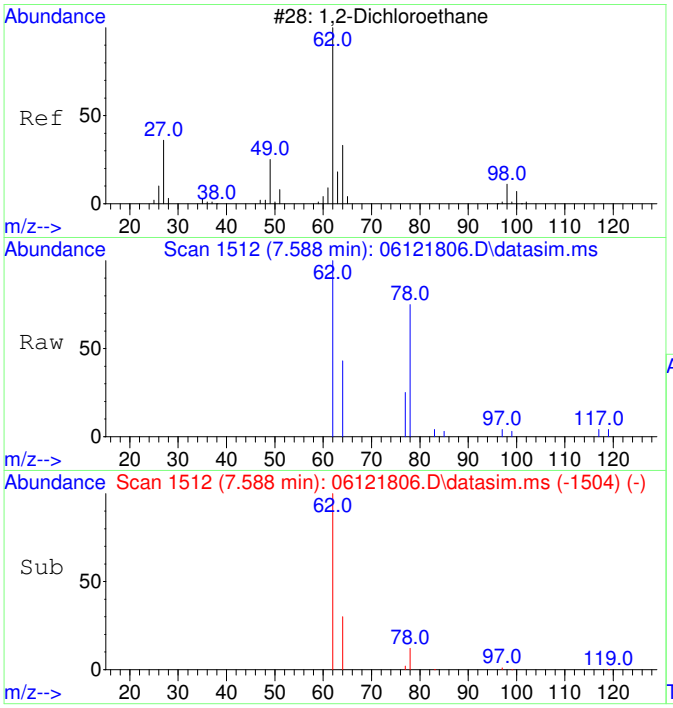


#9
Benzene
Concen: 968.33 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 78 Resp: 14597

Ion	Ratio	Lower	Upper
78	100		
77	24.6	0.0	53.0

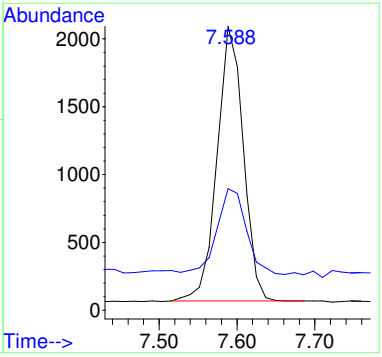


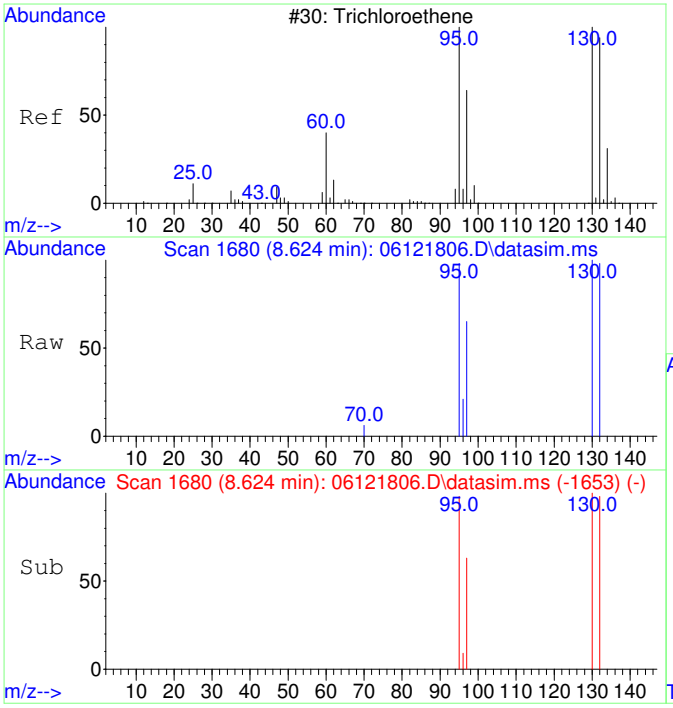


#10
1,2-Dichloroethane
Concen: 974.64 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 62 Resp: 4735

Ion	Ratio	Lower	Upper
62	100		
64	35.0	2.3	62.3

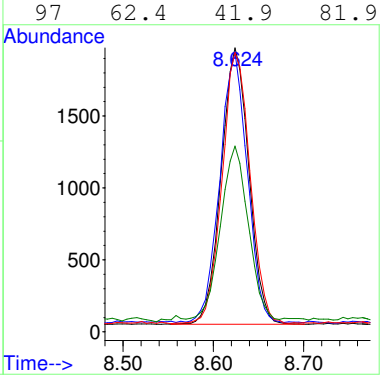


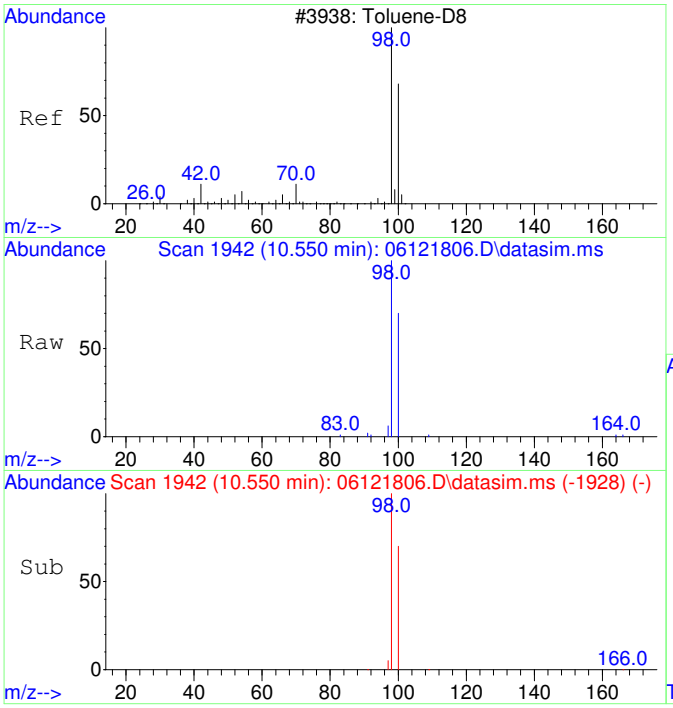


#11
Trichloroethene
Concen: 987.92 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

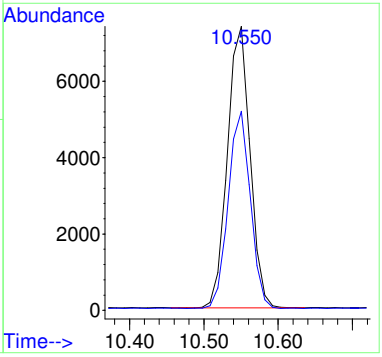


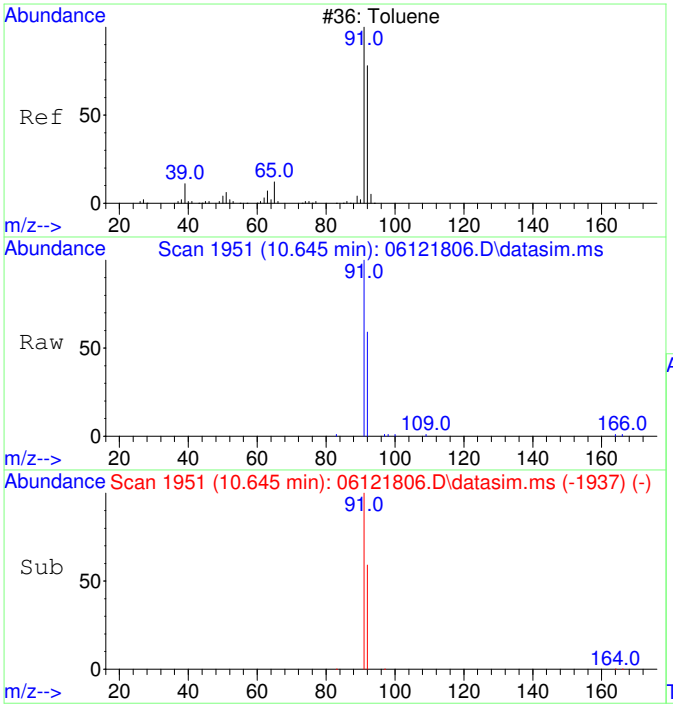


#12
Toluene-d8
Concen: 1021.71 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 98 Resp: 15581

Ion	Ratio	Lower	Upper
98	100		
100	68.3	38.7	98.7

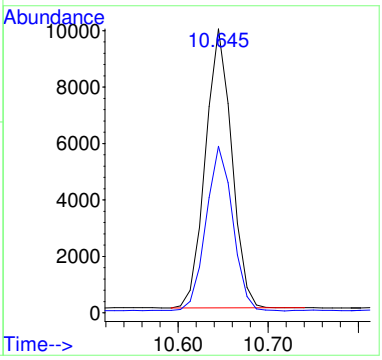


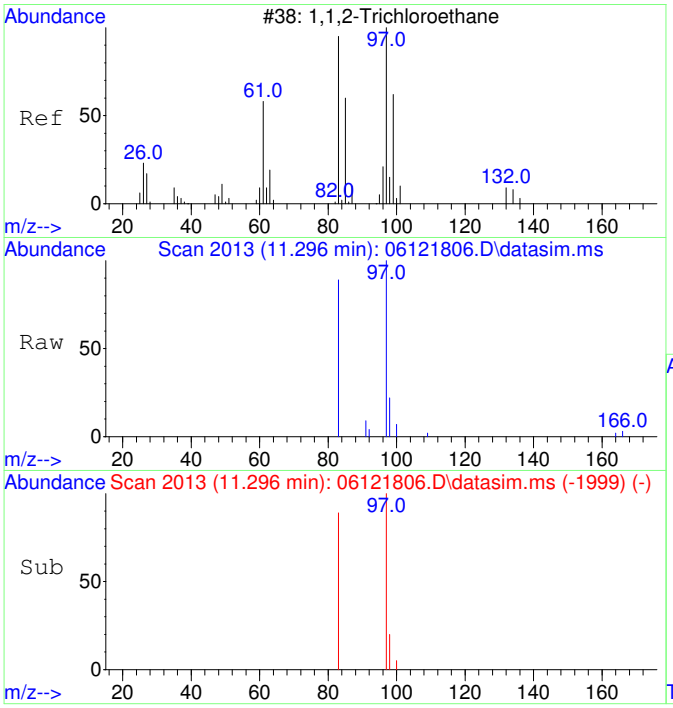


#13
Toluene
Concen: 974.57 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 19927

Ion	Ratio	Lower	Upper
91	100		
92	59.8	30.0	90.0

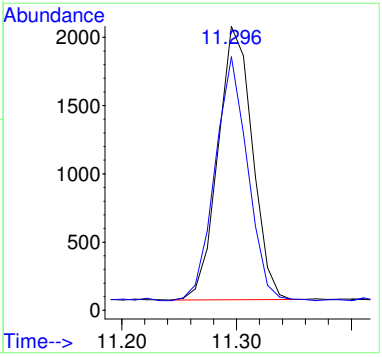


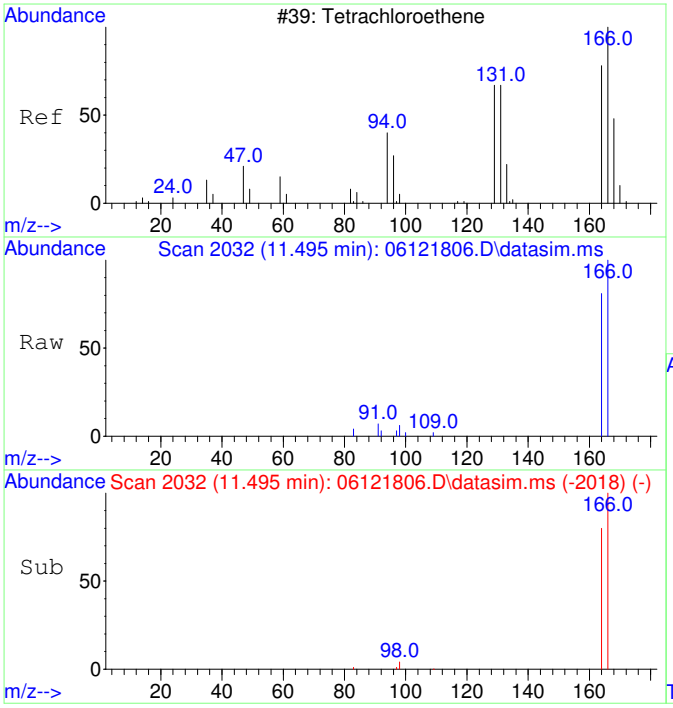


#14
1,1,2-Trichloroethane
Concen: 987.89 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 4175

Ion	Ratio	Lower	Upper
97	100		
83	84.8	53.4	113.4

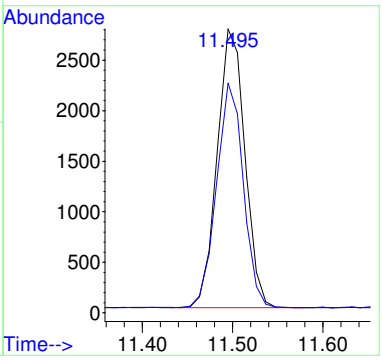


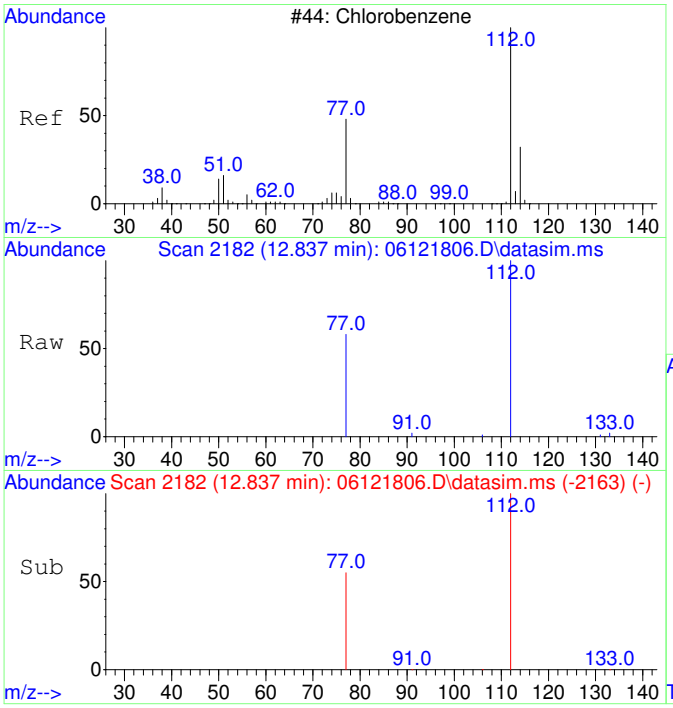


#15
Tetrachloroethene
Concen: 1022.60 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:166 Resp: 5891

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

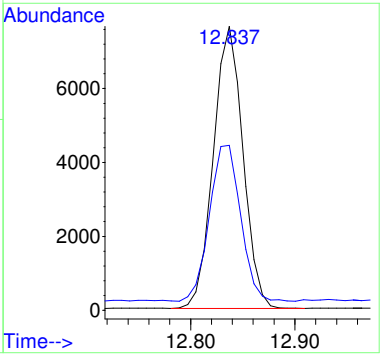


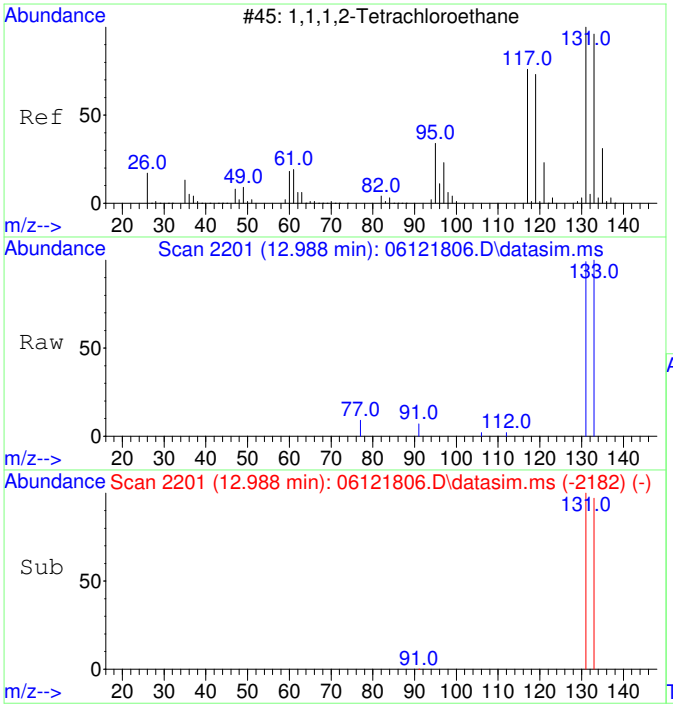


#16
Chlorobenzene
Concen: 1028.95 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:112 Resp: 15016

Ion	Ratio	Lower	Upper
112	100		
77	57.9	28.1	88.1

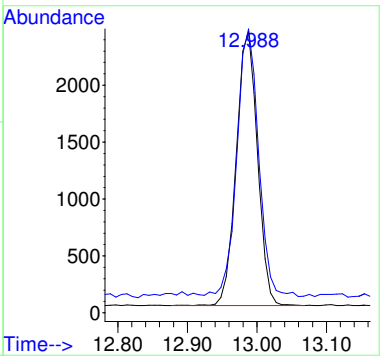


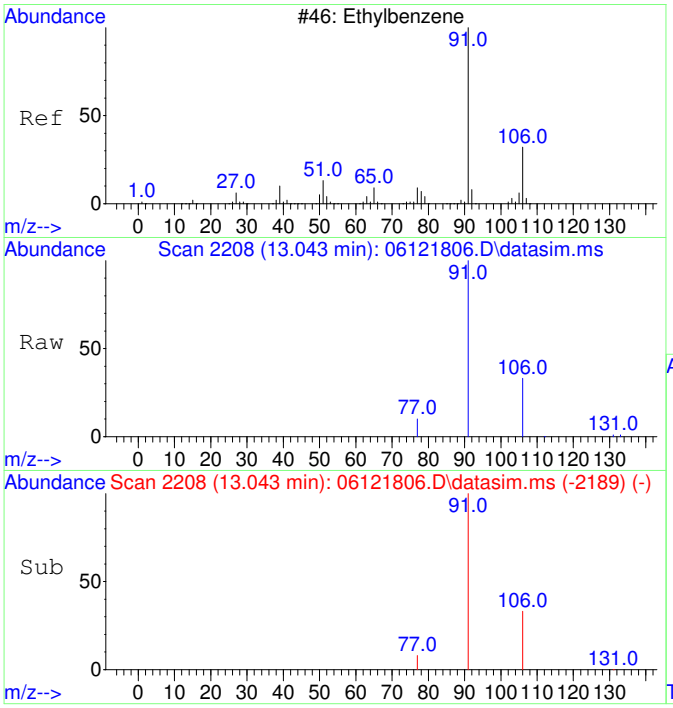


#17
1,1,1,2-Tetrachloroethane
Concen: 1030.18 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:131 Resp: 5102

Ion	Ratio	Lower	Upper
131	100		
133	99.1	66.2	126.2

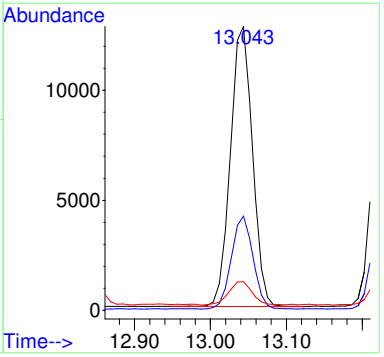


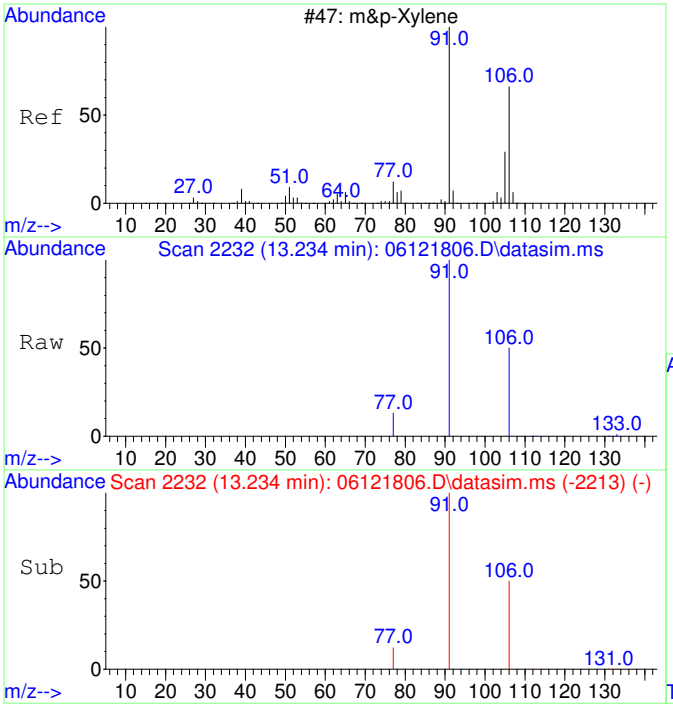


#18
Ethylbenzene
Concen: 1047.26 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

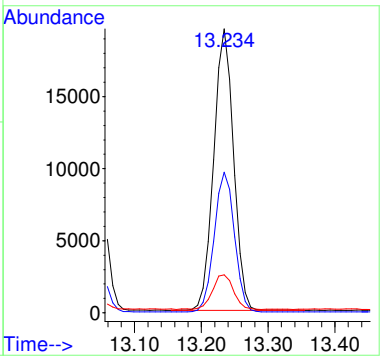


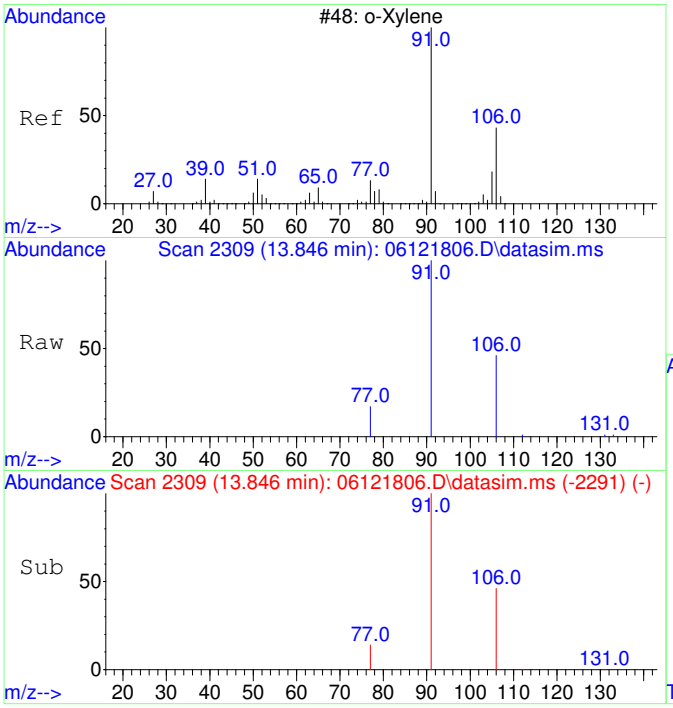


#19
m&p-Xylene
Concen: 2126.18 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

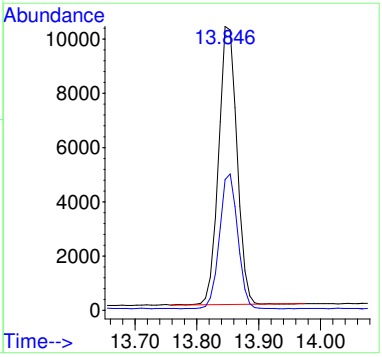


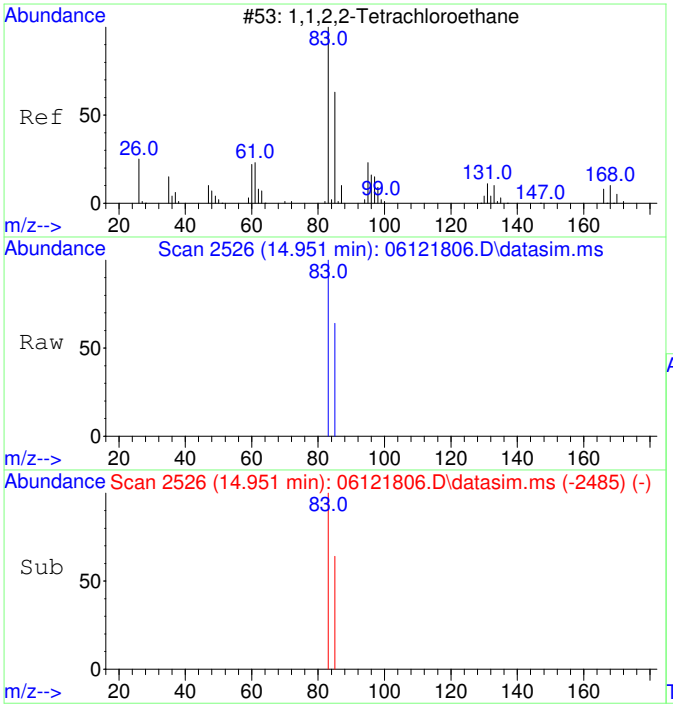


#20
o-Xylene
Concen: 1052.20 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 21104

Ion	Ratio	Lower	Upper
91	100		
106	48.1	18.3	78.3

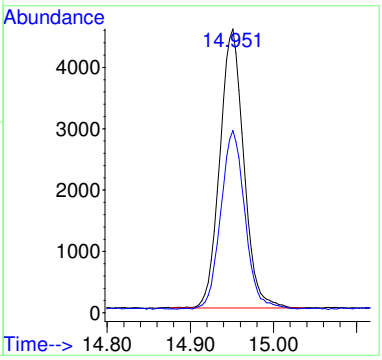


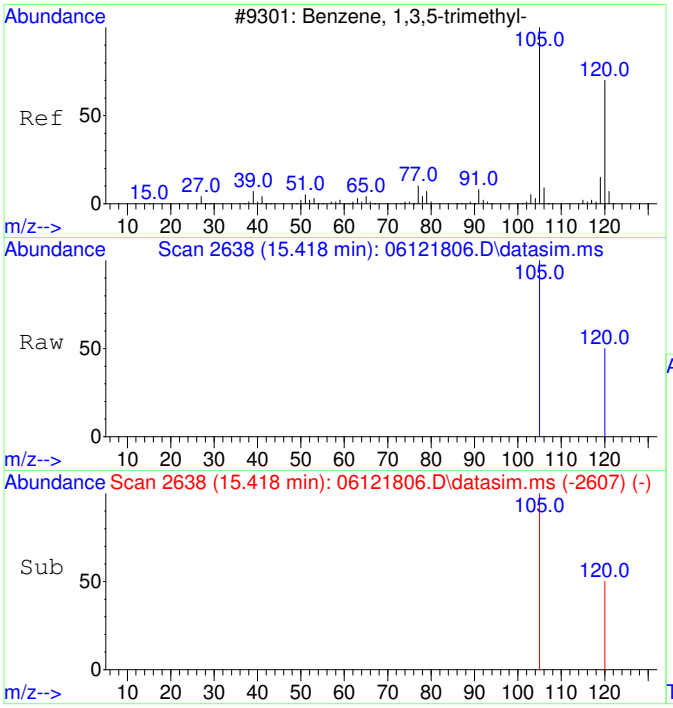


#21
1,1,2,2-Tetrachloroethane
Concen: 1051.19 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 9080

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.4	94.4

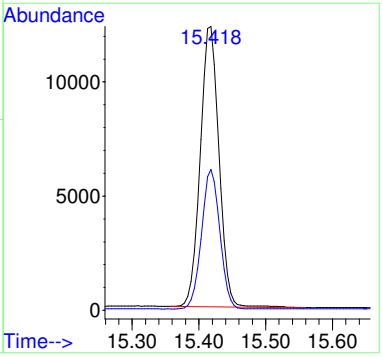


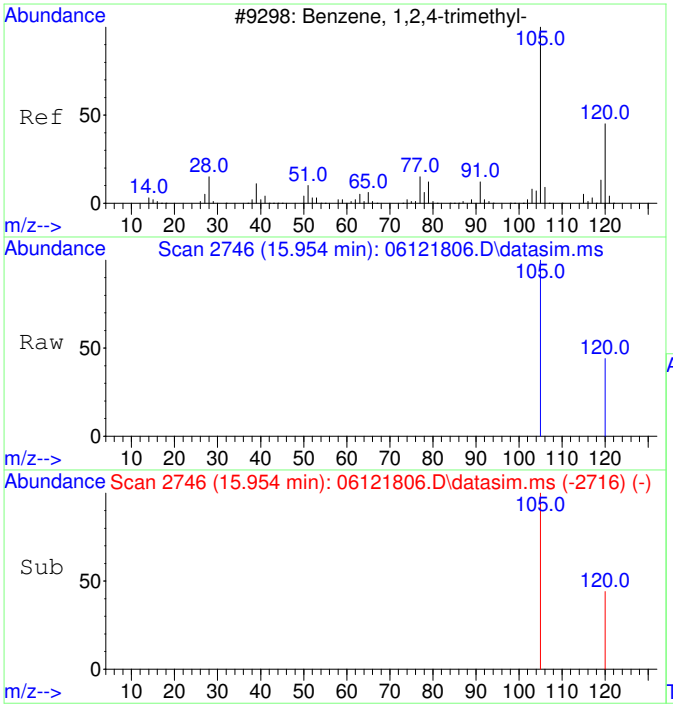


#22
1,3,5-Trimethylbenzene
Concen: 1055.83 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 23961

Ion	Ratio	Lower	Upper
105	100		
120	48.4	19.1	79.1

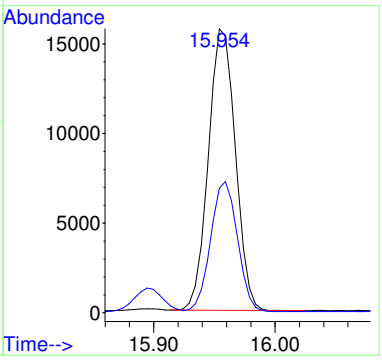


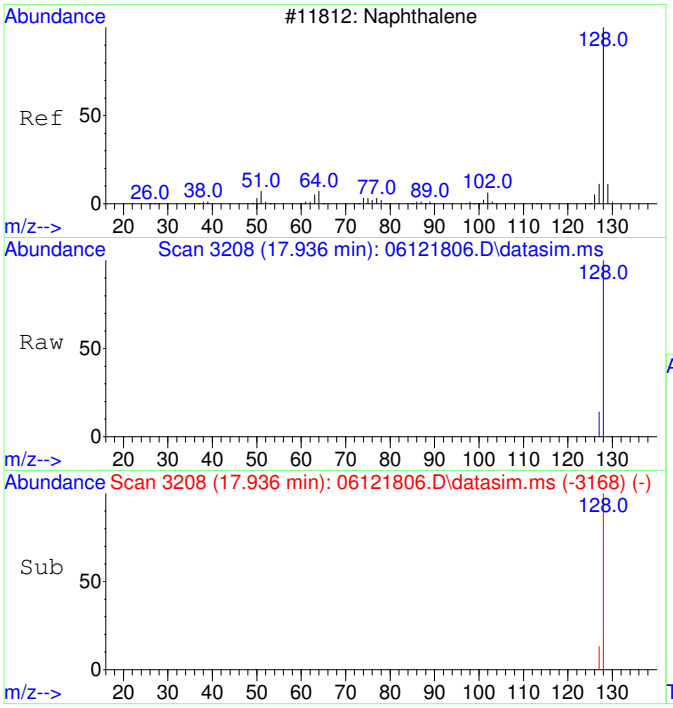


#23
1,2,4-Trimethylbenzene
Concen: 1071.21 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 24317

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

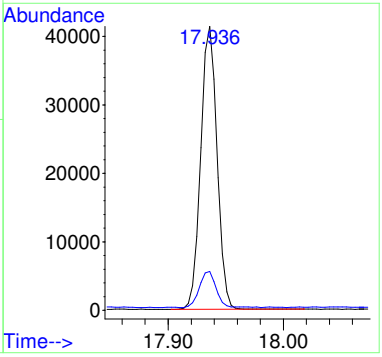


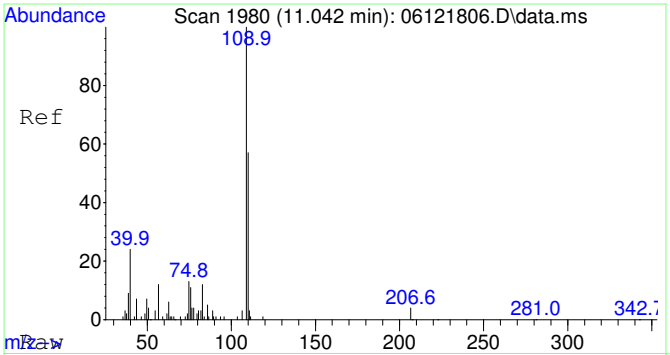


#24
Naphthalene
Concen: 1088.43 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:128 Resp: 40548

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.5

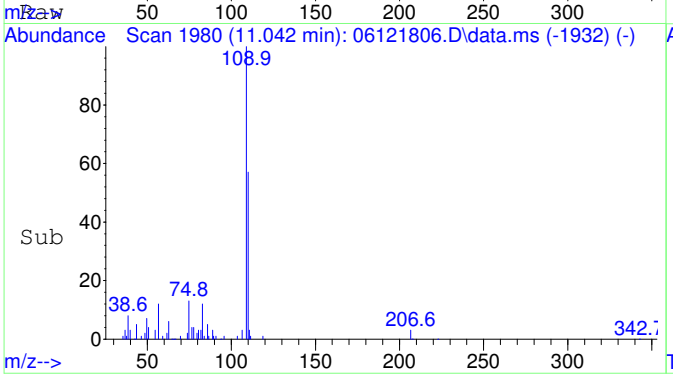


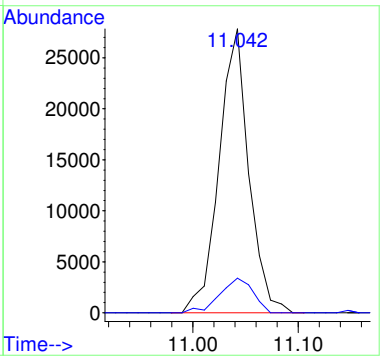


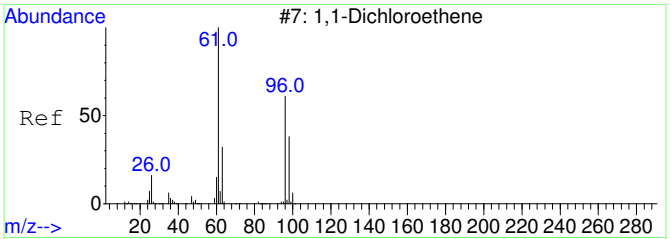
#25
2-Fluorotoluene SCAN
Concen: 5005.66 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:109 Resp: 54763

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	45.7



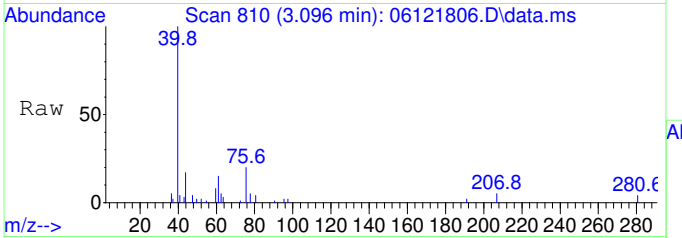


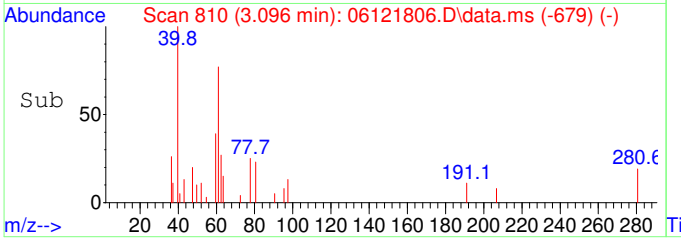


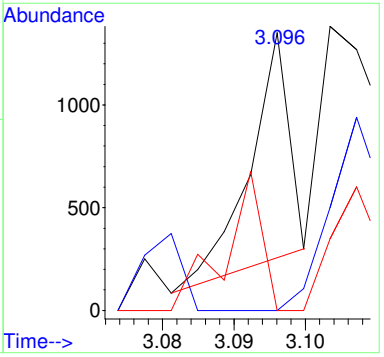
#26
1,1-Dichloroethene SCAN
Concen: 164.47 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.015 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

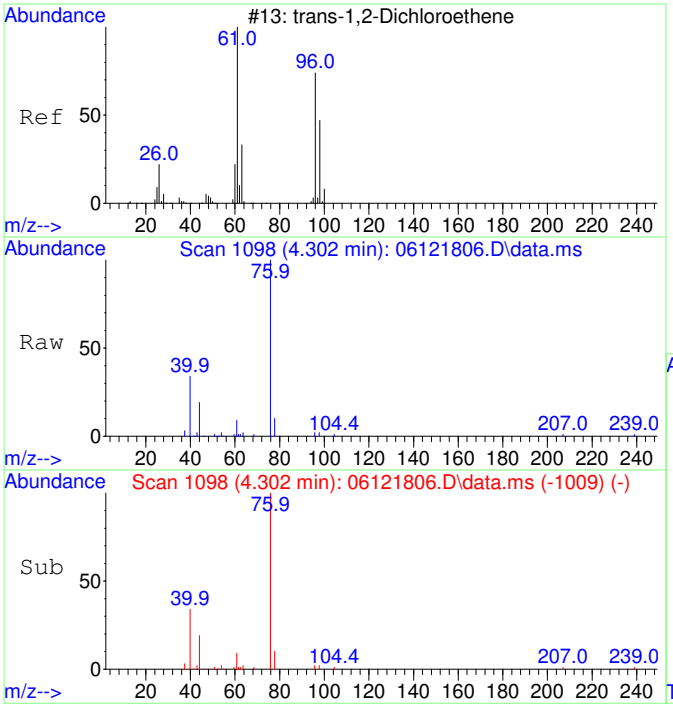
Tgt Ion: 61 Resp: 449

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





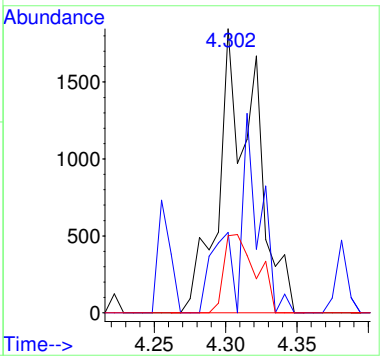


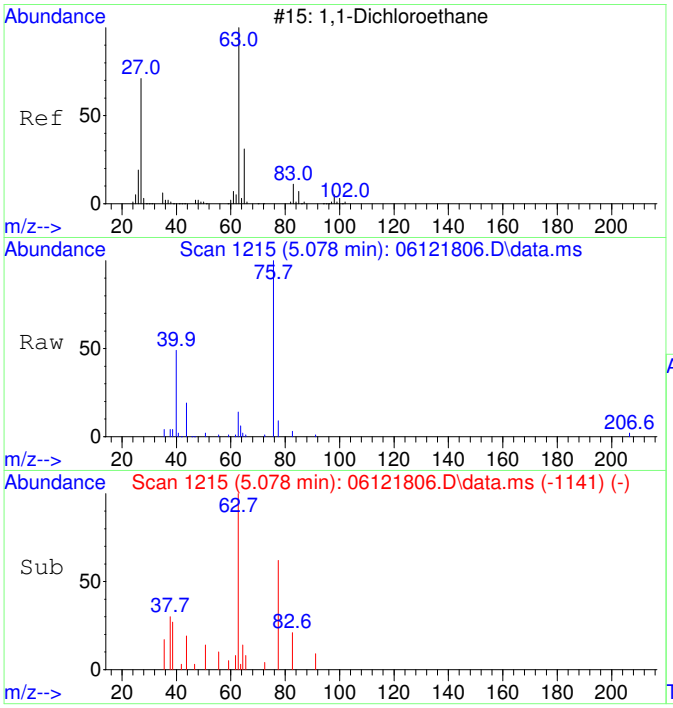


#27
trans-1,2-Dichloroethene SCAN
Concen: 1038.01 ug/L
RT: 4.302 min Scan# 1098
Delta R.T. -0.033 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

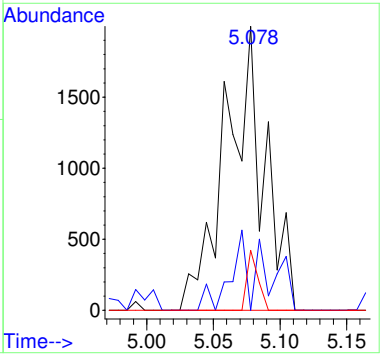


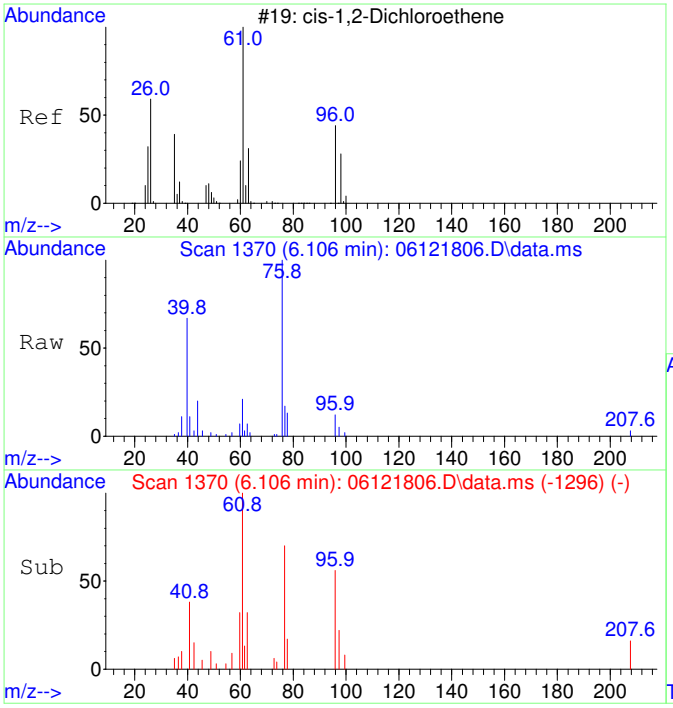


#28
1,1-Dichloroethane SCAN
Concen: 1005.39 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

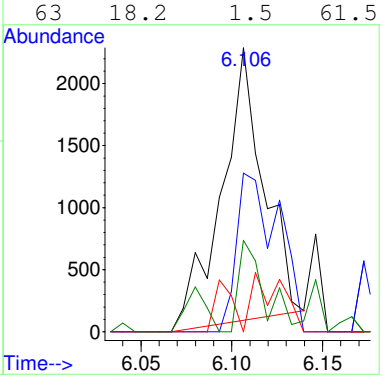


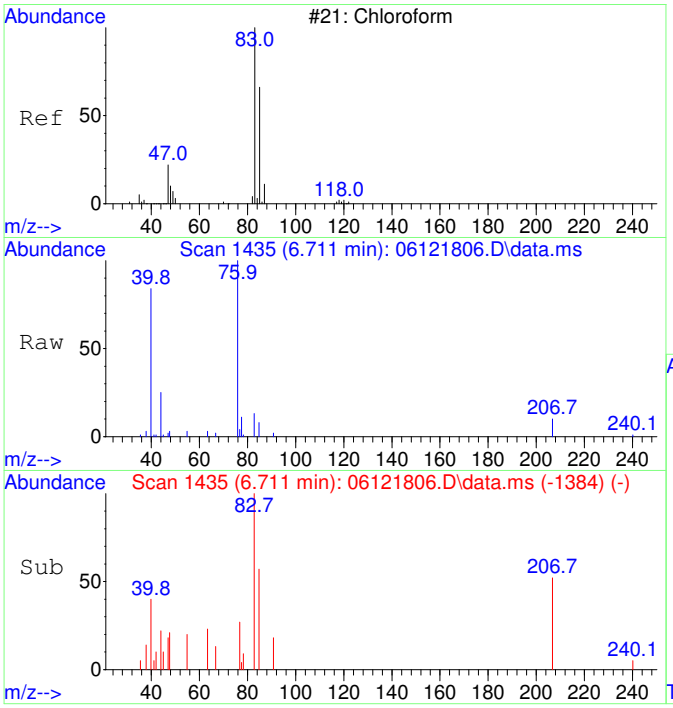


#29
cis-1,2-Dichloroethene SCAN
Concen: 1020.65 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

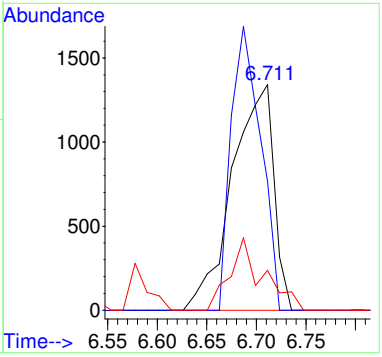


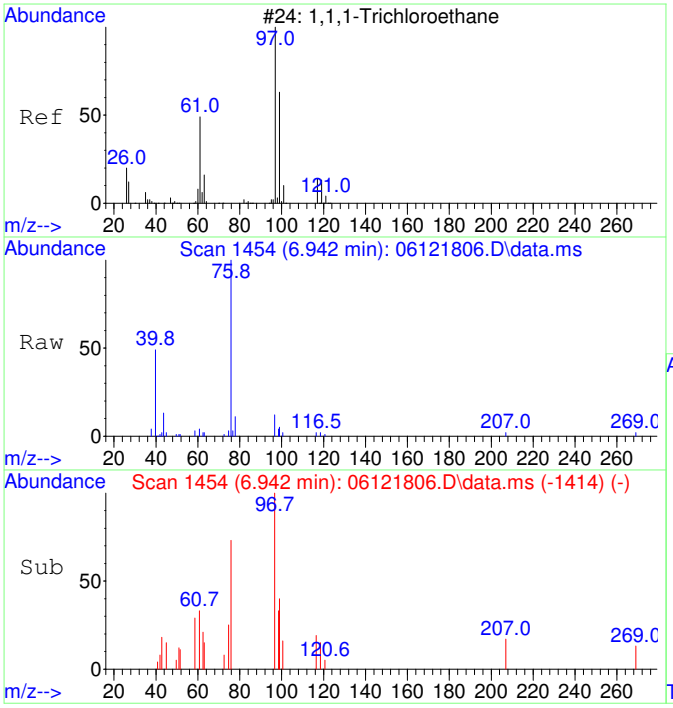


#30
Chloroform SCAN
Concen: 913.54 ug/L
RT: 6.711 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

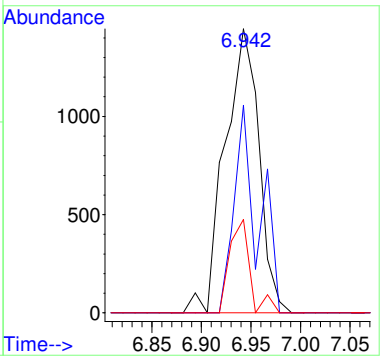


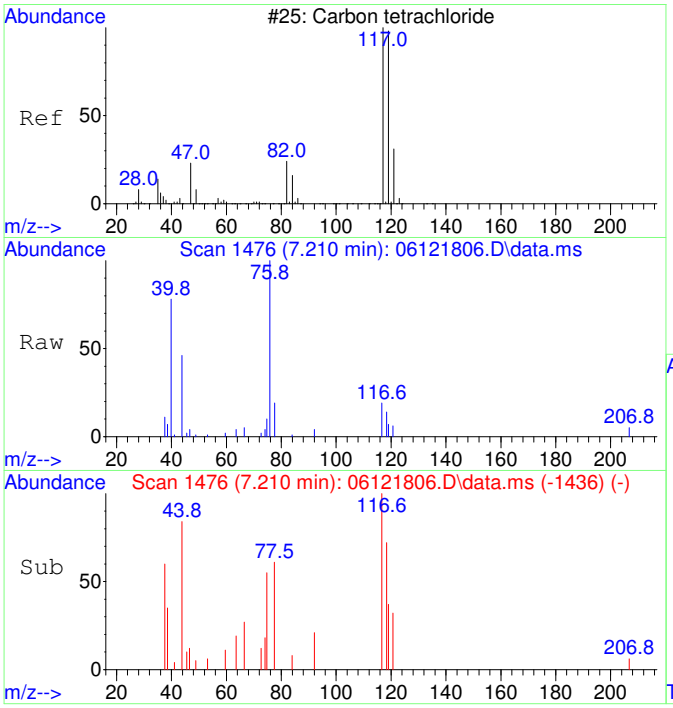


#31
1,1,1-Trichloroethane SCAN
Concen: 905.32 ug/L
RT: 6.942 min Scan# 1454
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

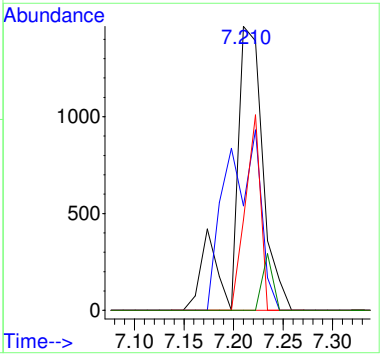


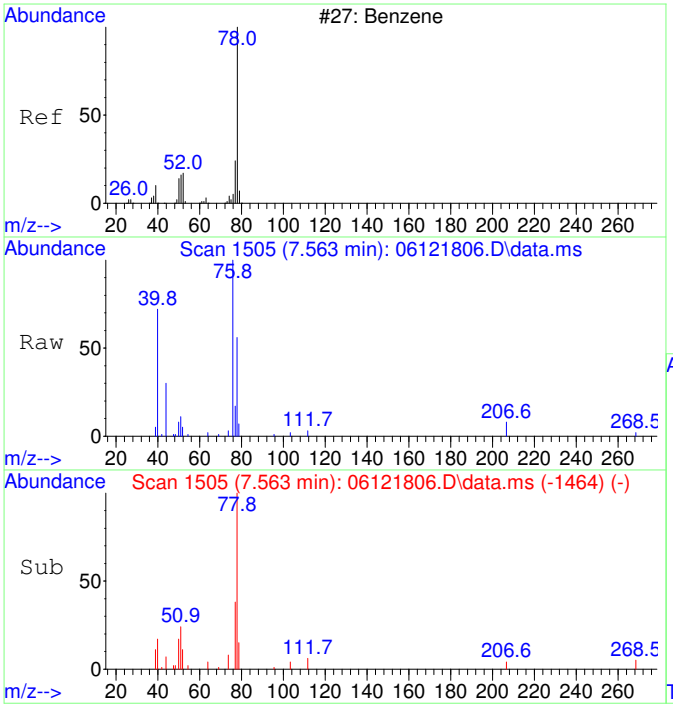


#32
Carbon tetrachloride SCAN
Concen: 783.60 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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#

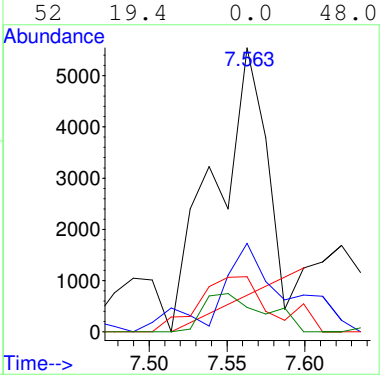


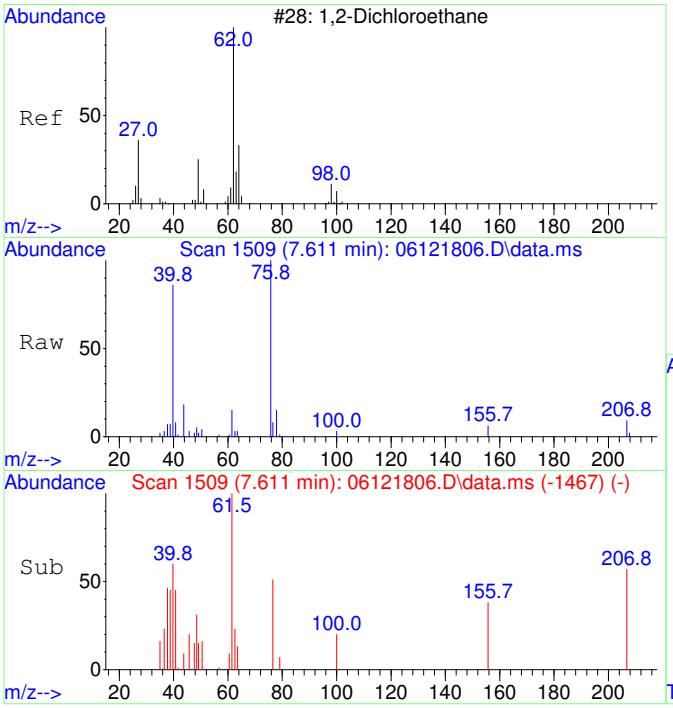


#33
Benzene SCAN
Concen: 923.58 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

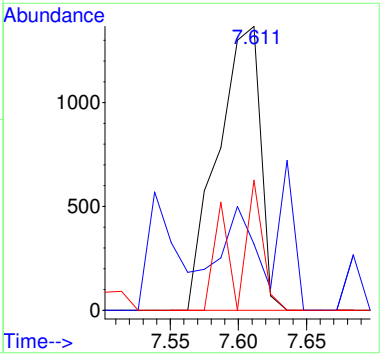


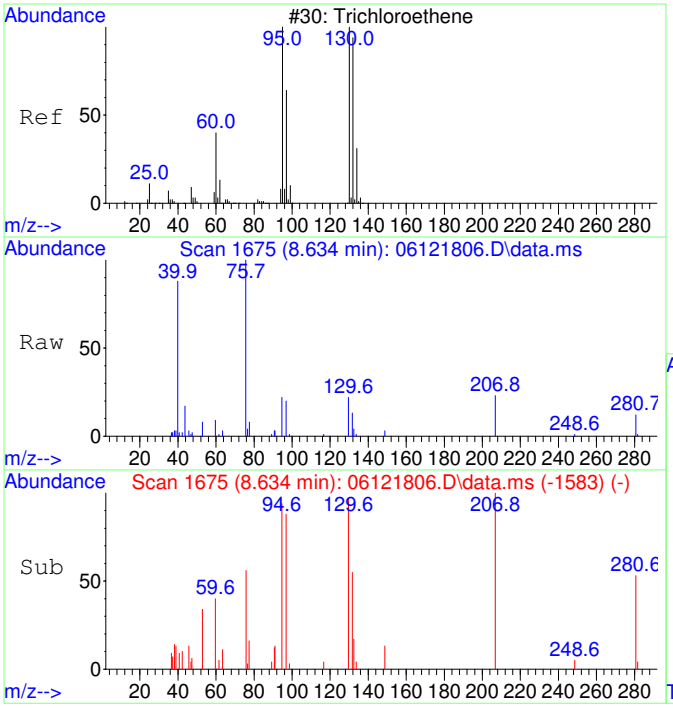


#34
1,2-Dichloroethane SCAN
Concen: 768.98 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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#

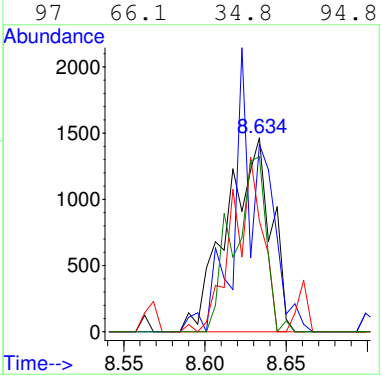


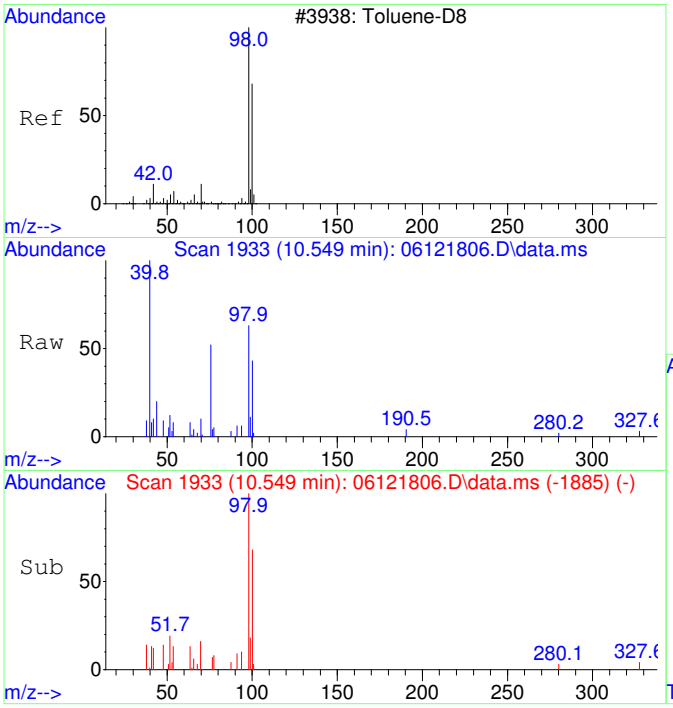


#35
Trichloroethene SCAN
Concen: 999.60 ug/L
RT: 8.634 min Scan# 1675
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

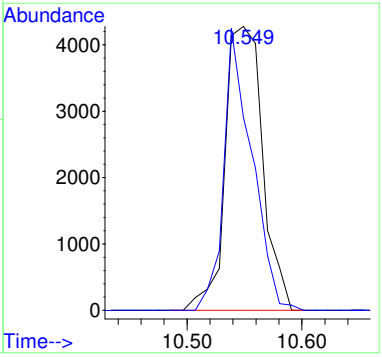


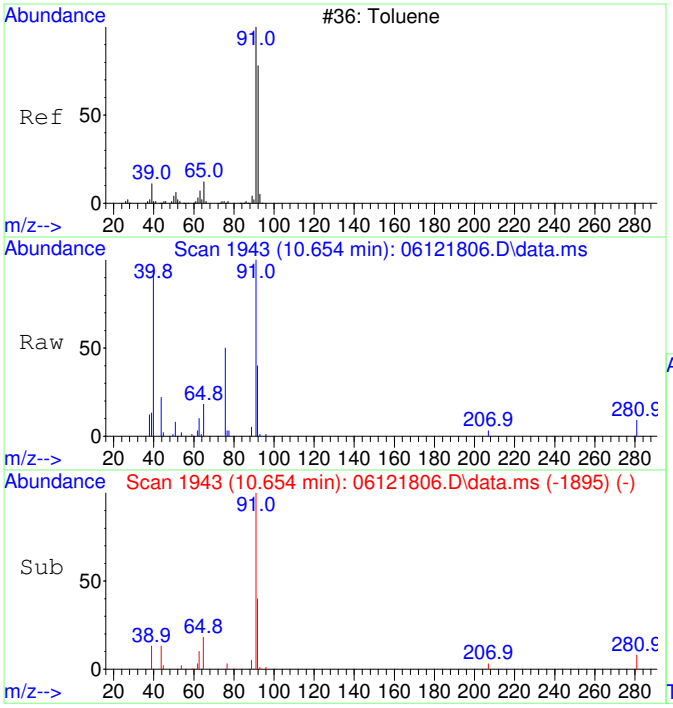


#36
Toluene-d8 SCAN
Concen: 982.82 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 98 Resp: 9720

Ion	Ratio	Lower	Upper
98	100		
100	74.5	39.5	99.5

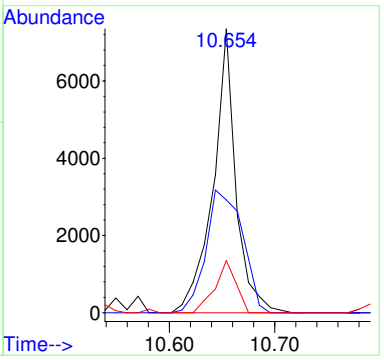


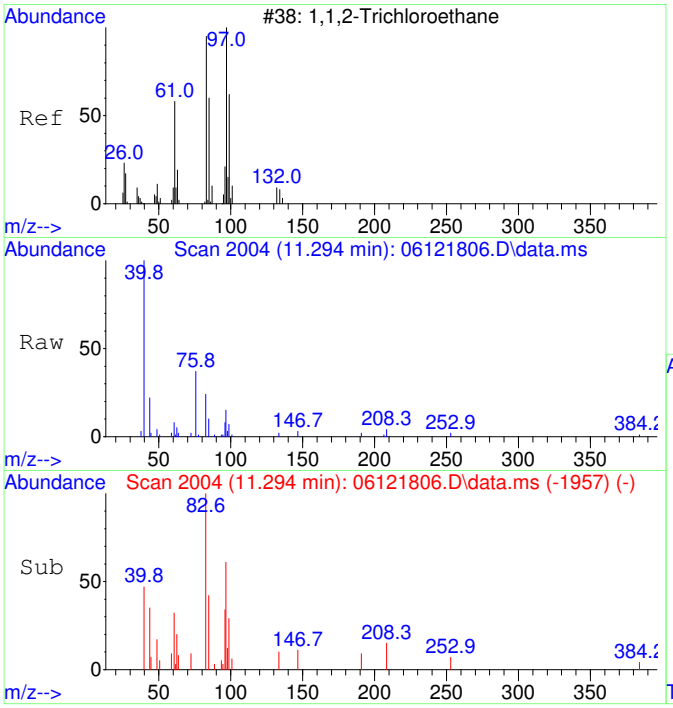


#37
Toluene SCAN
Concen: 876.73 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

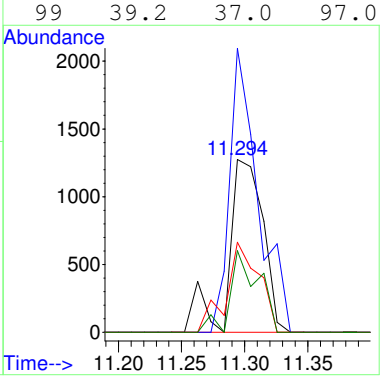


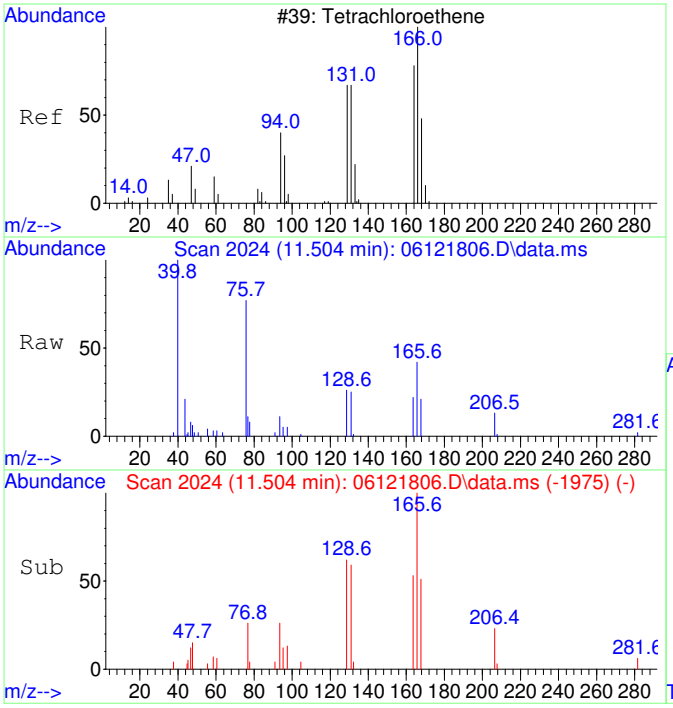


#38
1,1,2-Trichloroethane SCAN
Concen: 999.66 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

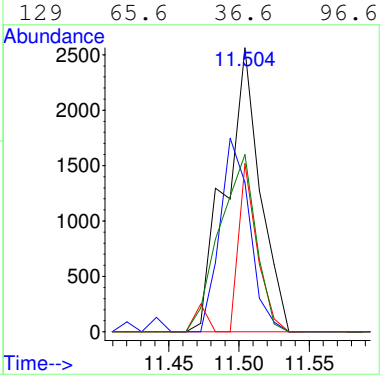


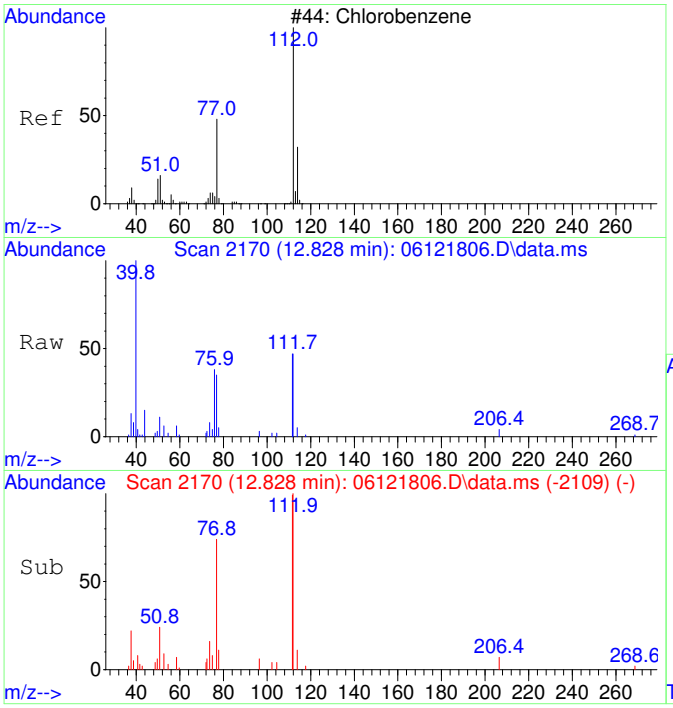


#39
Tetrachloroethene SCAN
Concen: 1592.94 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.011 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

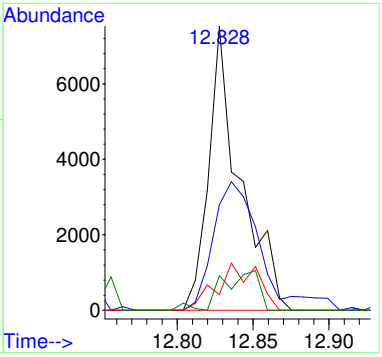


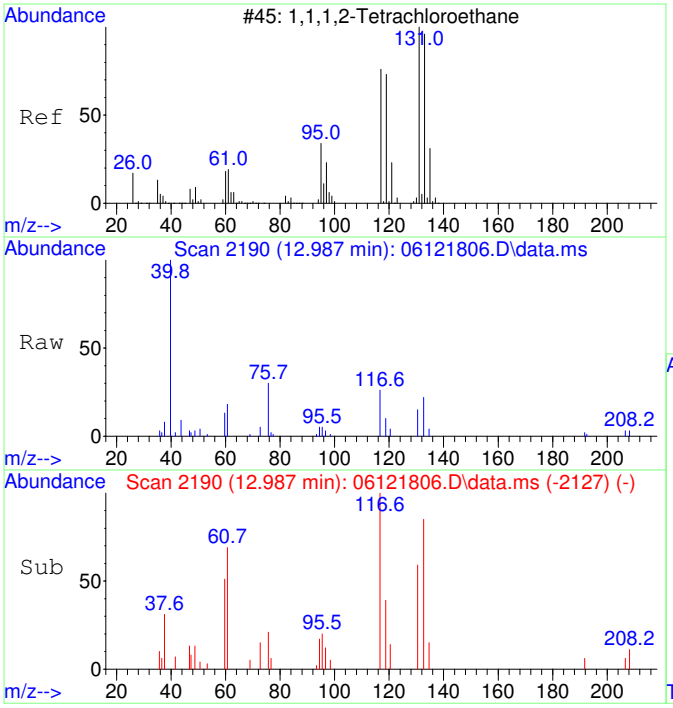


#40
Chlorobenzene SCAN
Concen: 1410.03 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.016 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

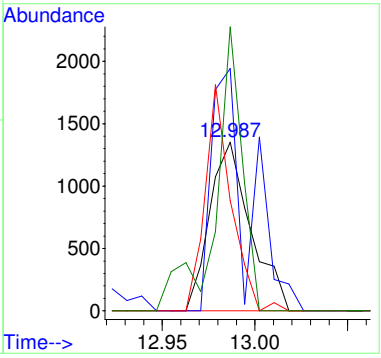


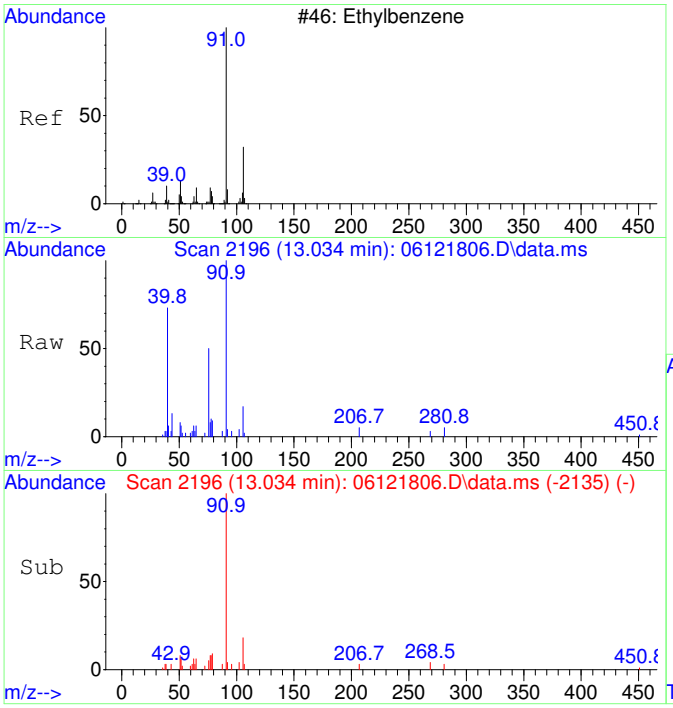


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 761.47 ug/L
RT: 12.987 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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#

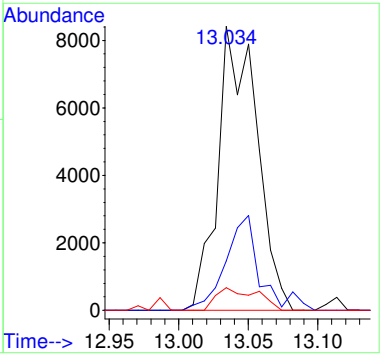


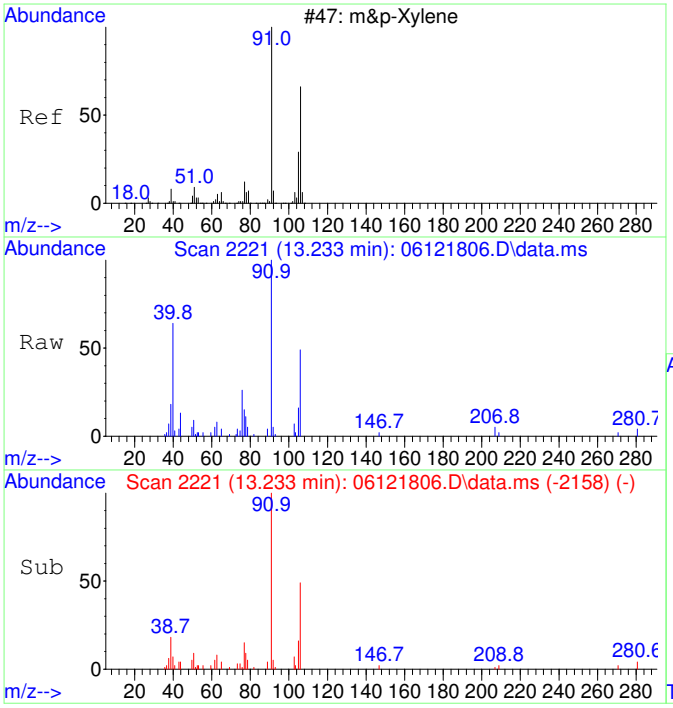


#42
Ethylbenzene SCAN
Concen: 1119.12 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.016 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

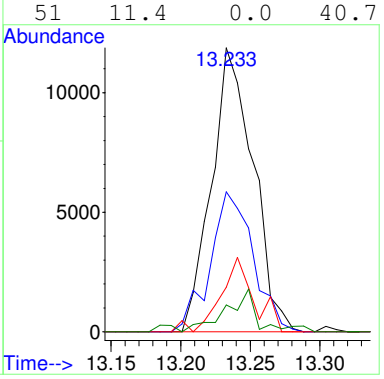


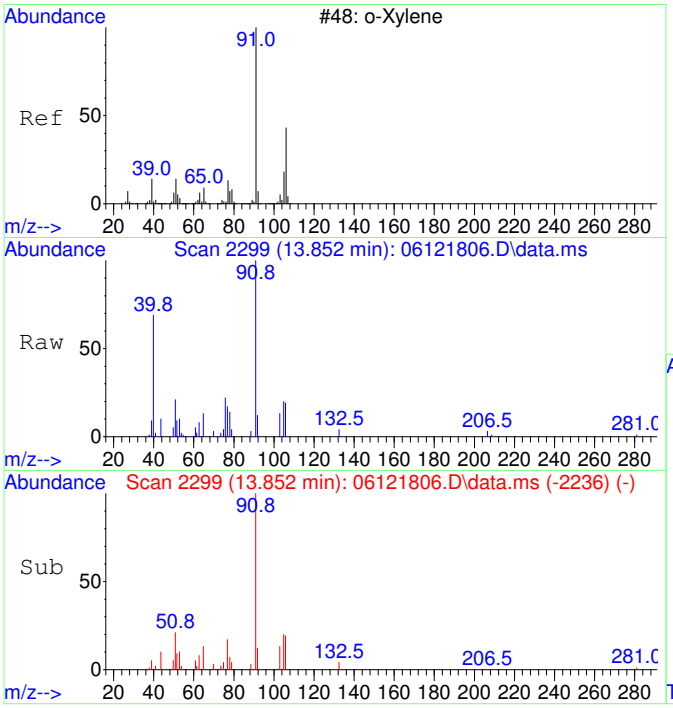


#43
m&p-Xylene SCAN
Concen: 1212.80 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

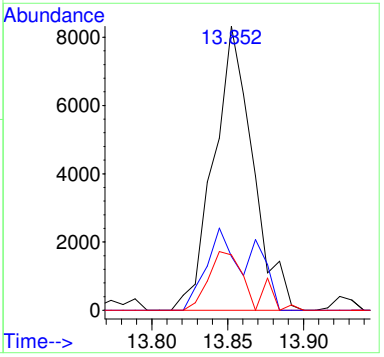


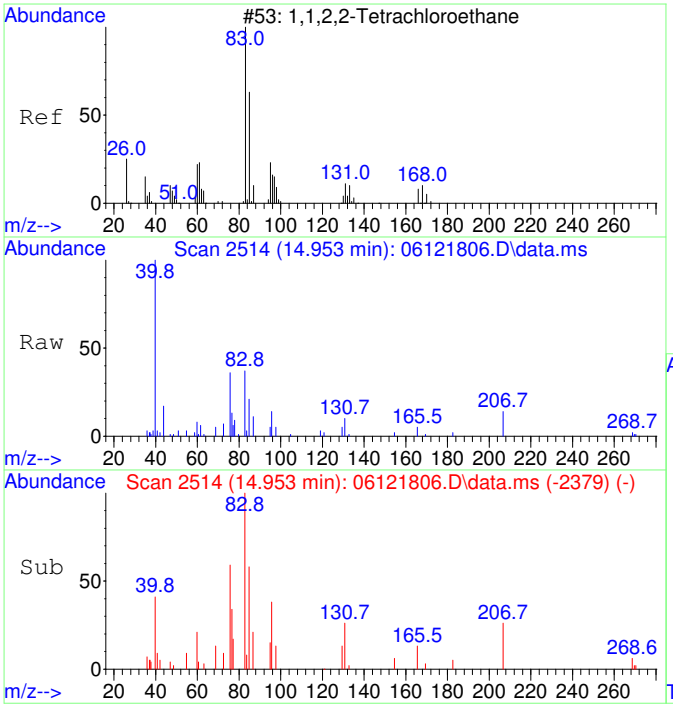


#44
o-Xylene SCAN
Concen: 1285.26 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

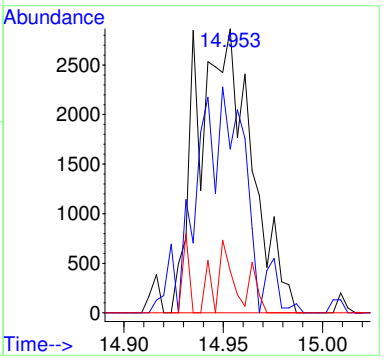


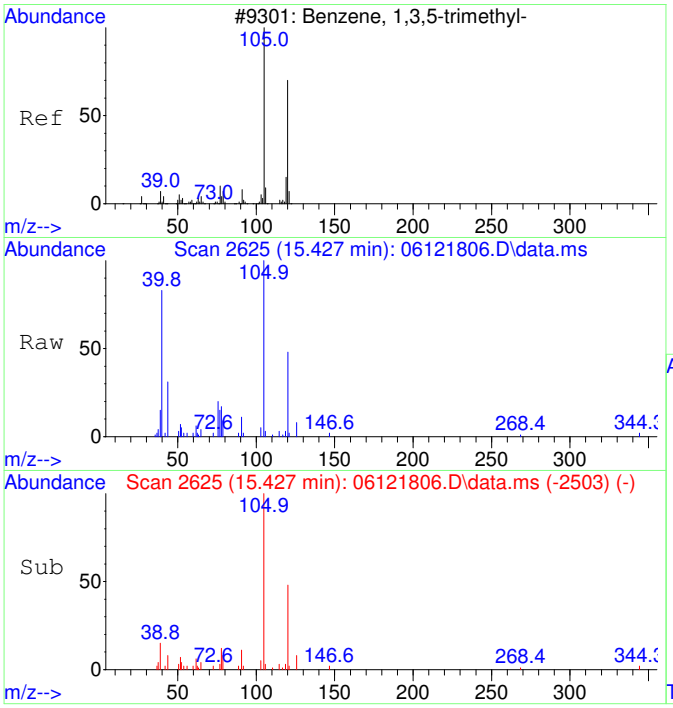


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 988.43 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

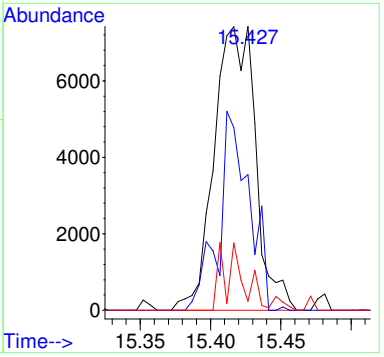


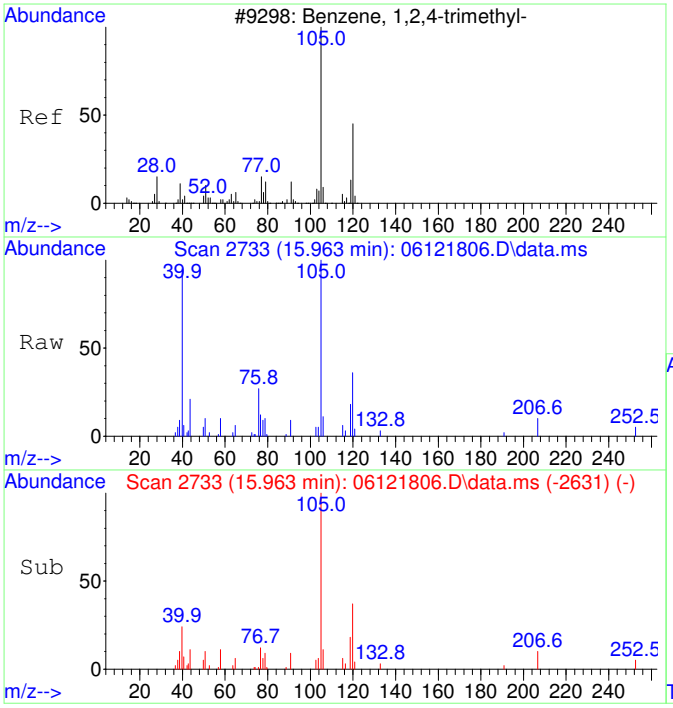


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1326.26 ug/L
RT: 15.427 min Scan# 2625
Delta R.T. 0.014 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

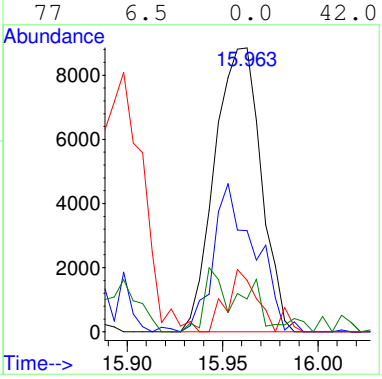


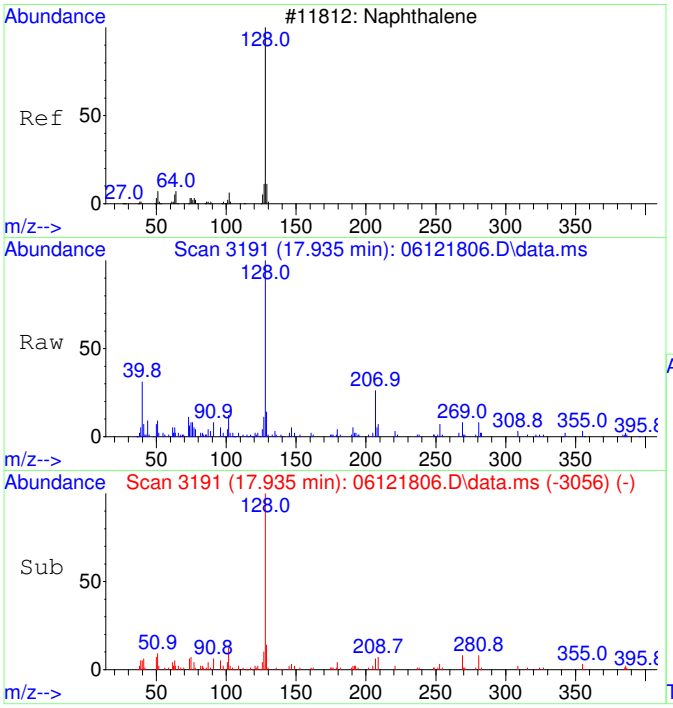


#47
1,2,4-Trimethylbenzene SCAN
Concen: 1271.38 ug/L
RT: 15.963 min Scan# 2733
Delta R.T. 0.009 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

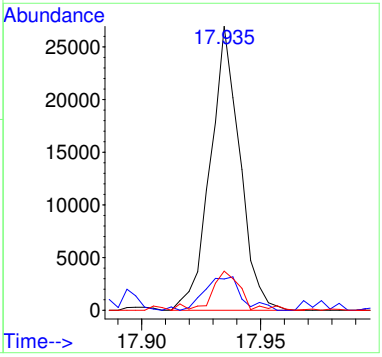




#48
Naphthalene SCAN
Concen: 1383.04 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. -0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

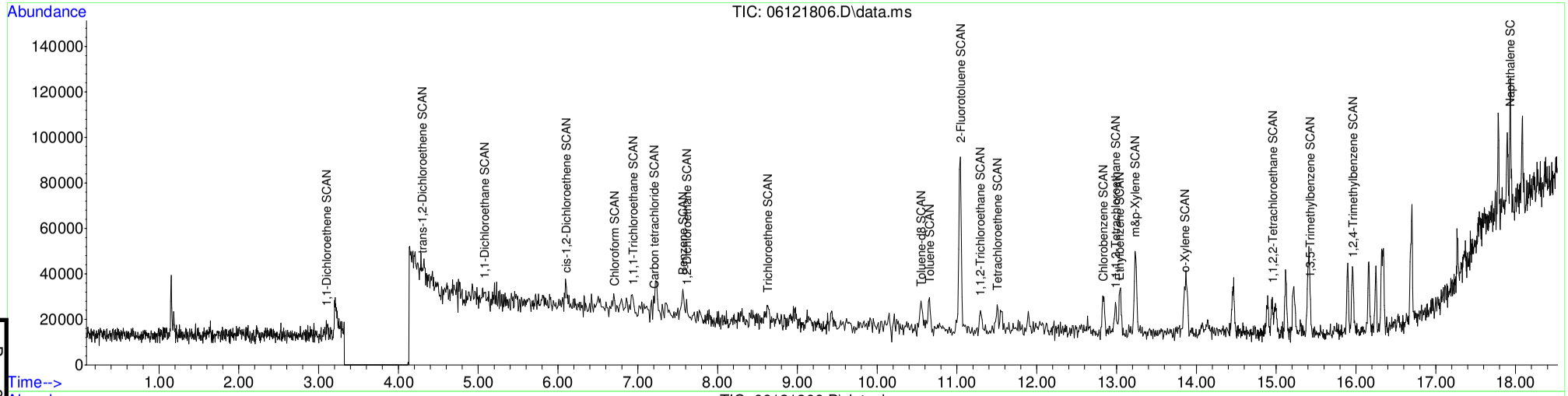
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	93886	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	15581	1021.71 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 20.43%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	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

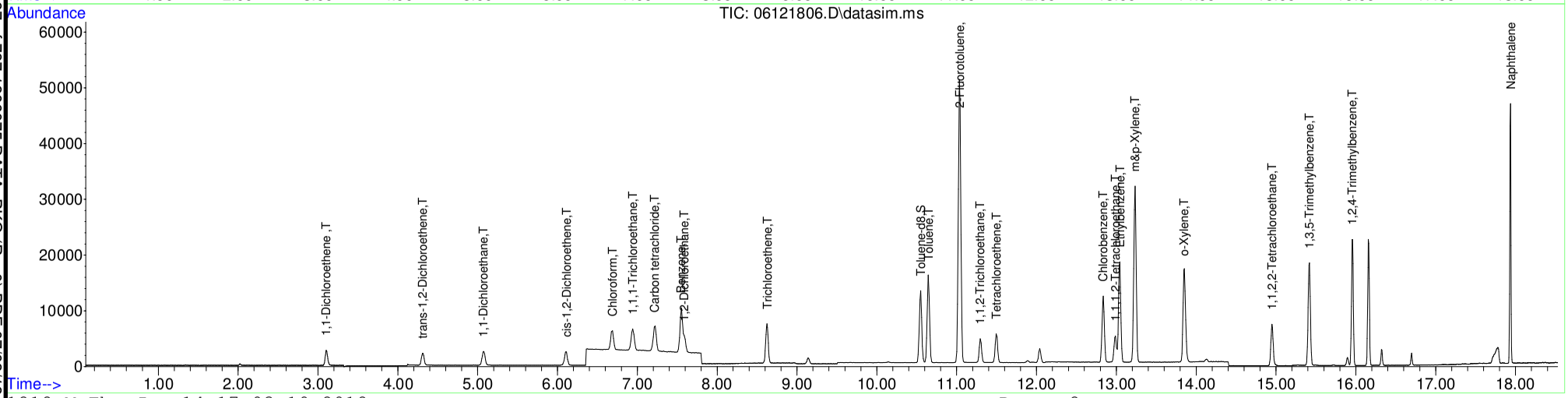
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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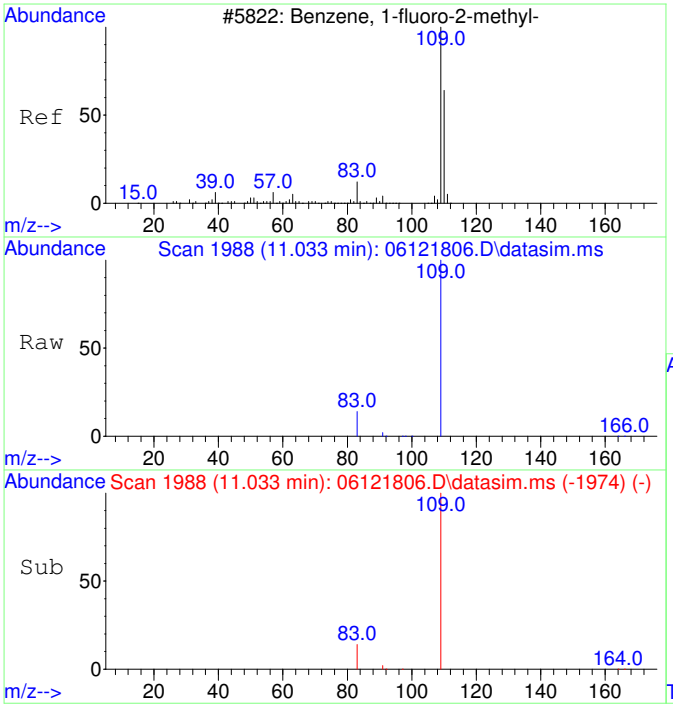
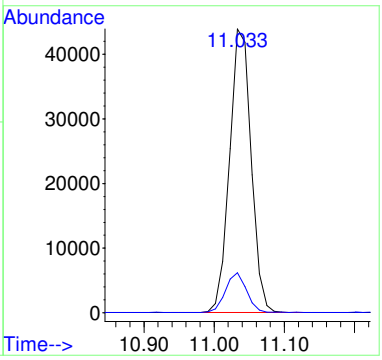
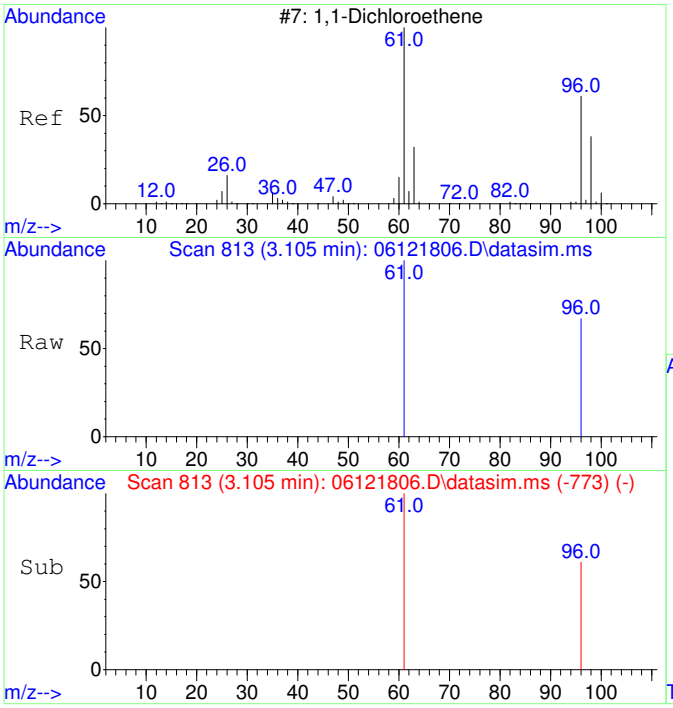


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:109 Resp: 93886

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.7

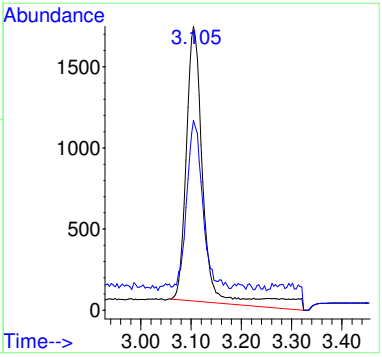




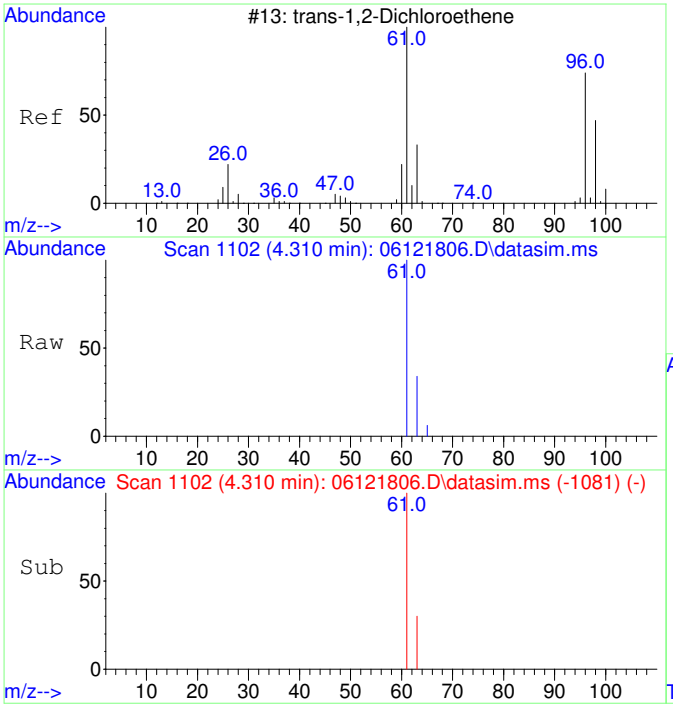
#2
1,1-Dichloroethene
Concen: 1011.26 ug/L
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 4062

Ion	Ratio	Lower	Upper
61	100		
96	61.4	28.7	88.7



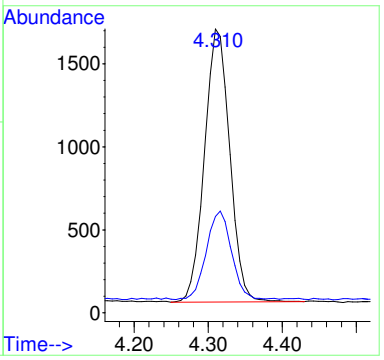
Before MI:
IMPROPER
BASELINE

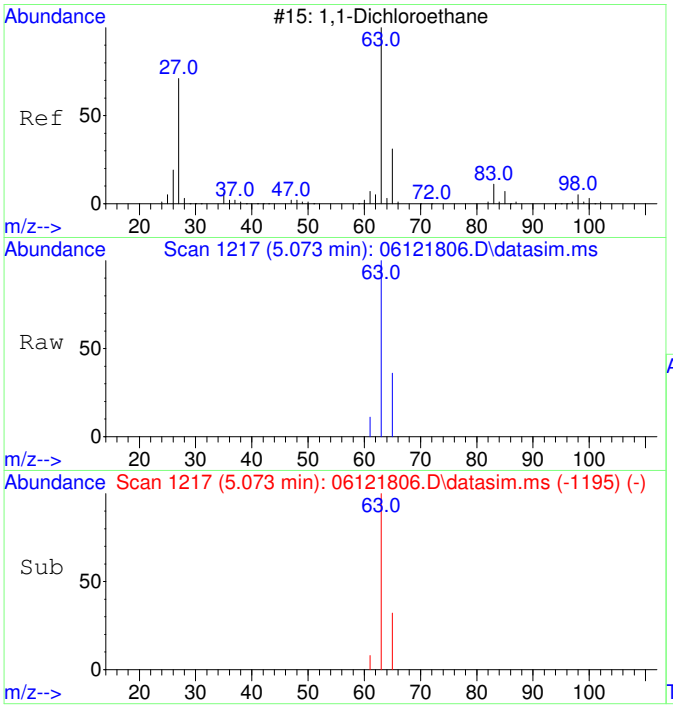


#3
trans-1,2-Dichloroethene
Concen: 927.55 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 3894

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.0	62.0

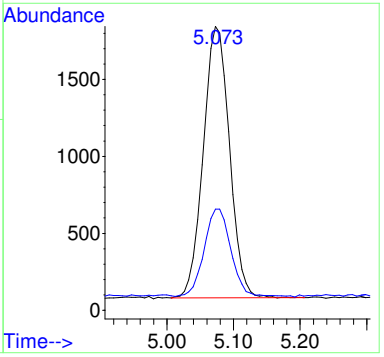


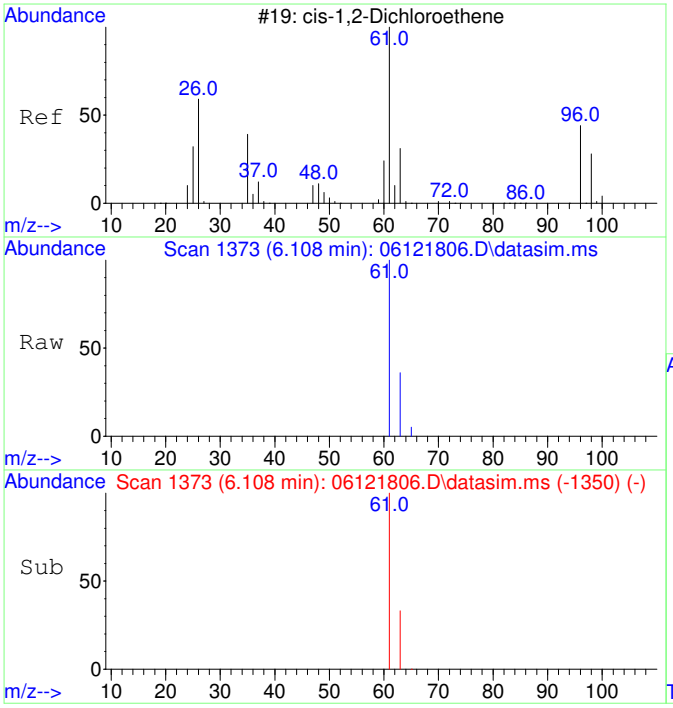


#4
1,1-Dichloroethane
Concen: 920.91 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 63 Resp: 4812

Ion	Ratio	Lower	Upper
63	100		
65	33.2	1.5	61.5

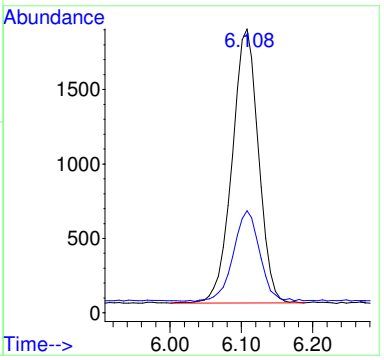


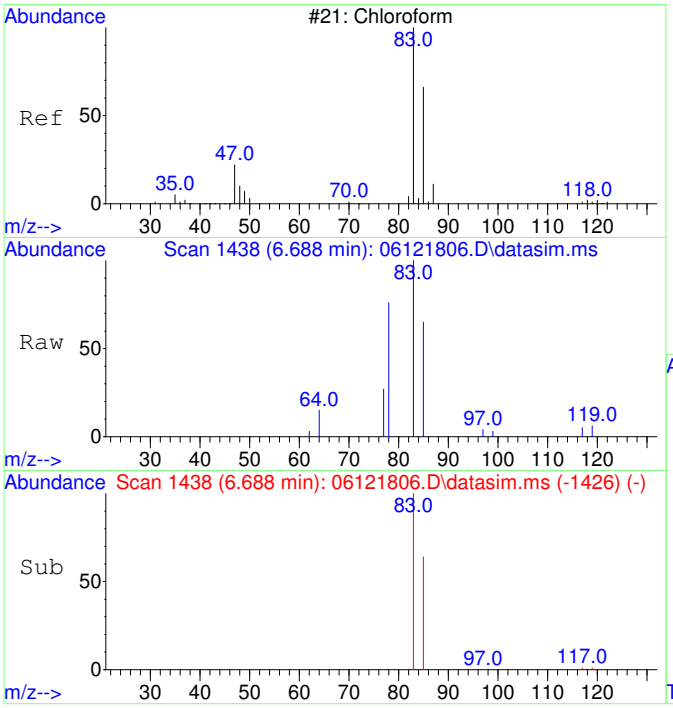


#5
cis-1,2-Dichloroethene
Concen: 915.08 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 61 Resp: 4717

Ion	Ratio	Lower	Upper
61	100		
63	32.7	2.2	62.2

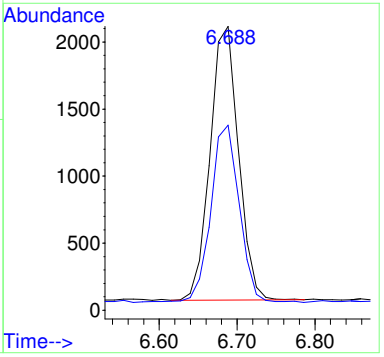


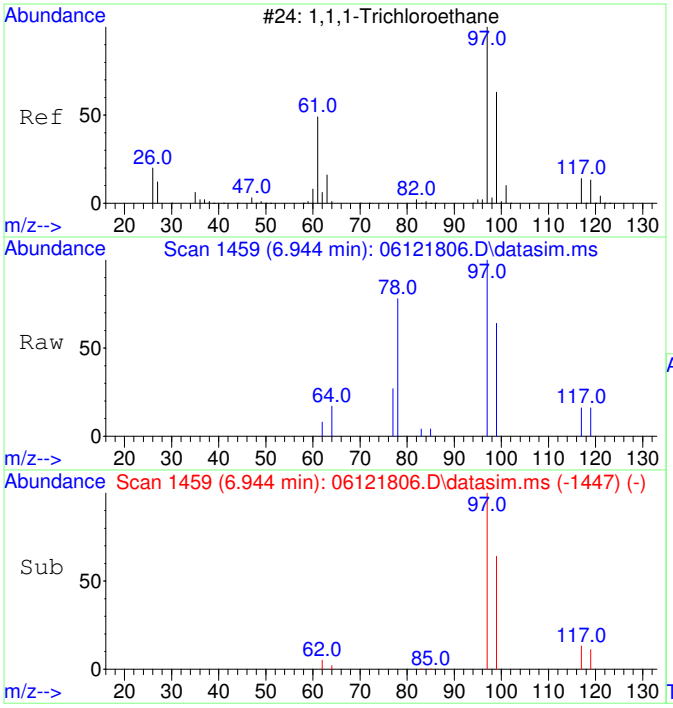


#6
Chloroform
Concen: 930.38 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 5164

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.8	94.8

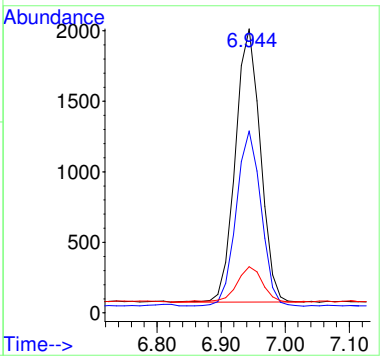


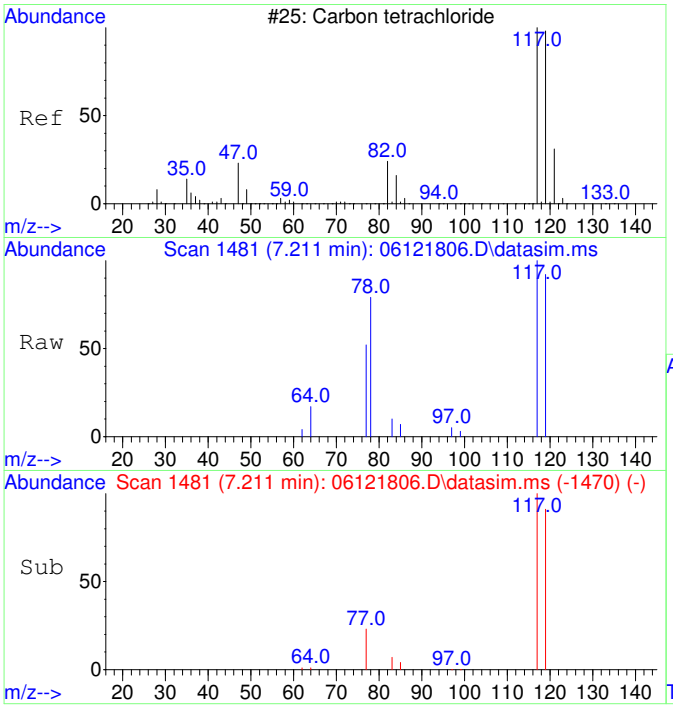


#7
1,1,1-Trichloroethane
Concen: 960.24 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

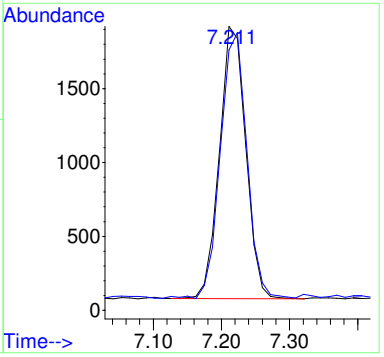


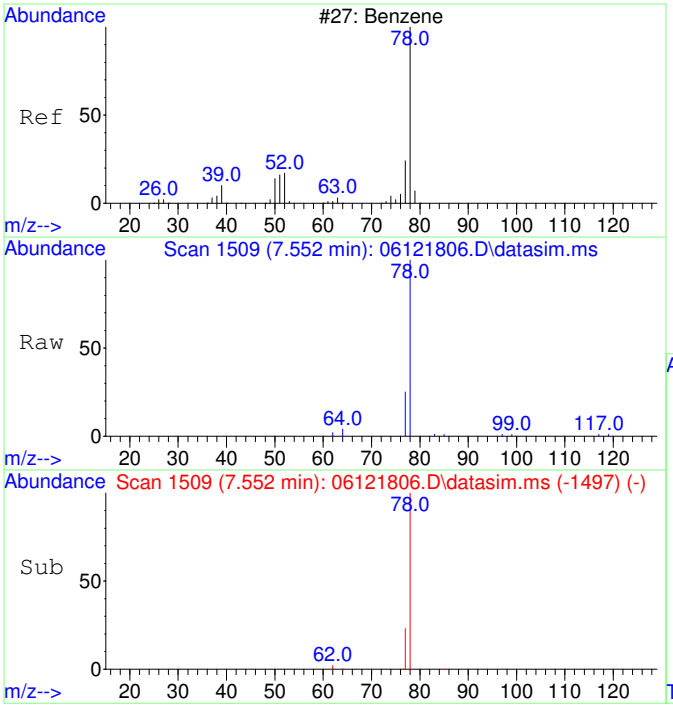


#8
Carbon tetrachloride
Concen: 952.27 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:117 Resp: 4928

Ion	Ratio	Lower	Upper
117	100		
119	97.0	65.9	125.9

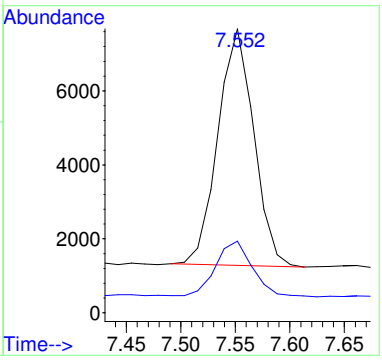


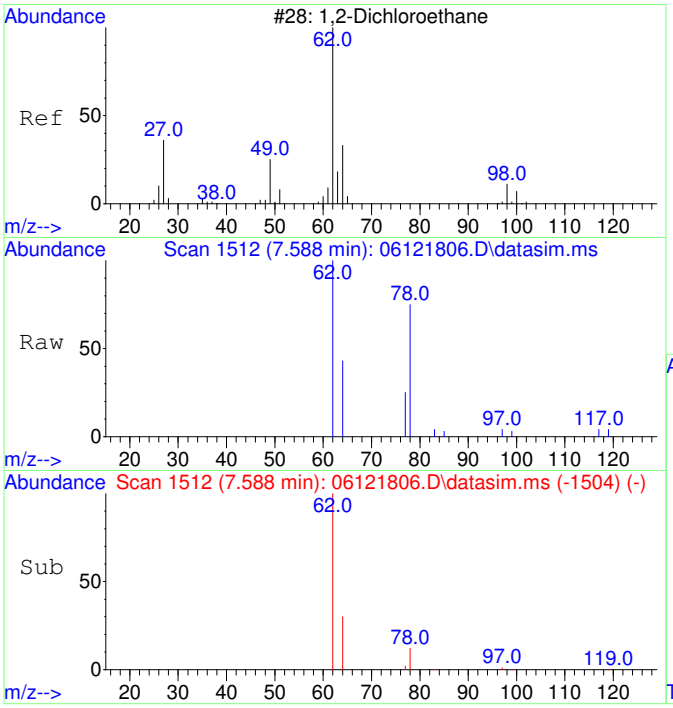


#9
Benzene
Concen: 968.33 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 78 Resp: 14597

Ion	Ratio	Lower	Upper
78	100		
77	24.6	0.0	53.0

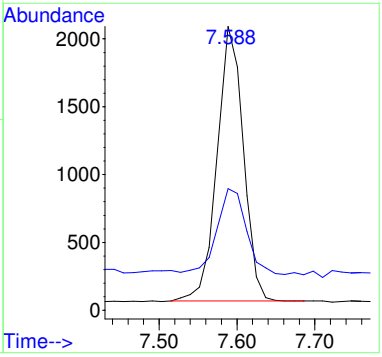


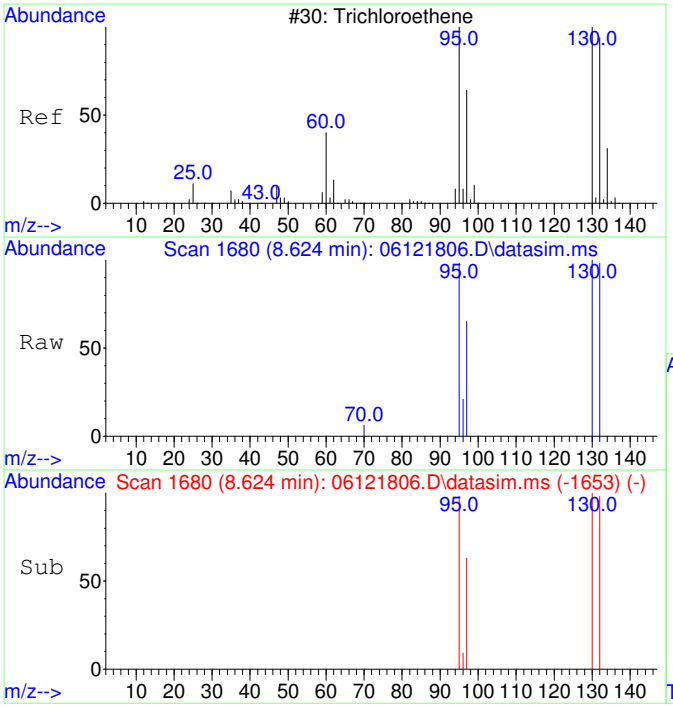


#10
1,2-Dichloroethane
Concen: 974.64 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 62 Resp: 4735

Ion	Ratio	Lower	Upper
62	100		
64	35.0	2.3	62.3

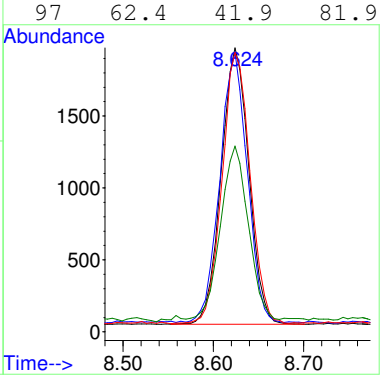


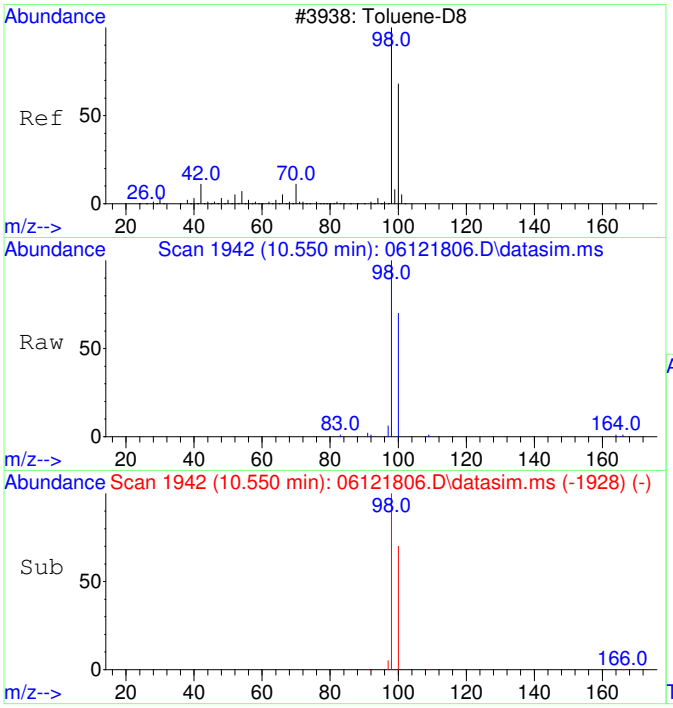


#11
Trichloroethene
Concen: 987.92 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

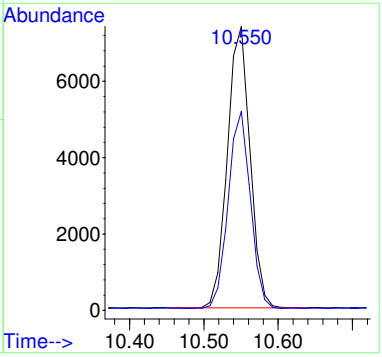


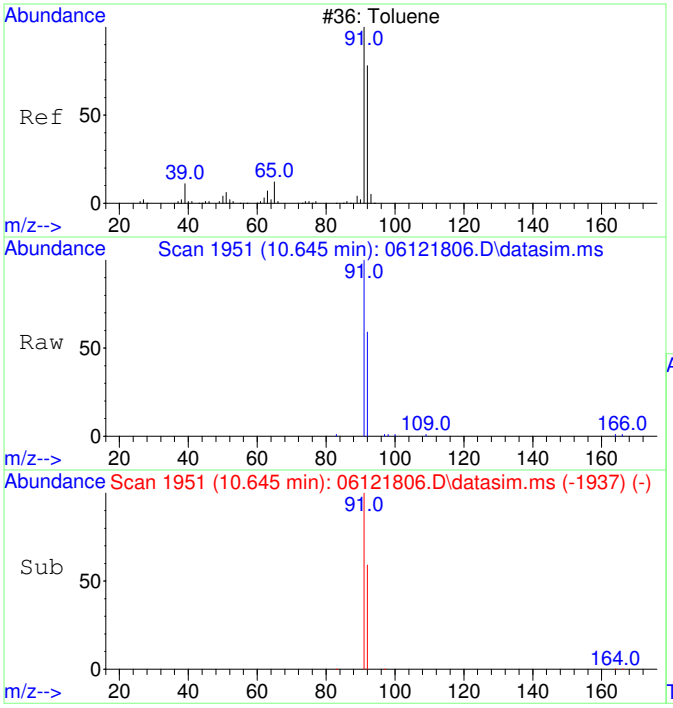


#12
Toluene-d8
Concen: 1021.71 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 98 Resp: 15581

Ion	Ratio	Lower	Upper
98	100		
100	68.3	38.7	98.7

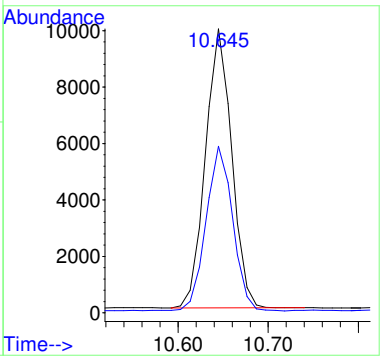


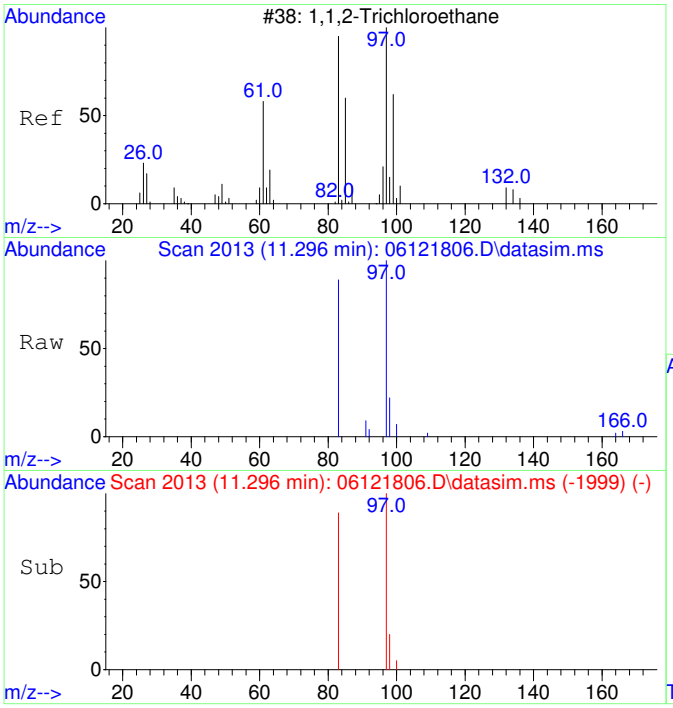


#13
Toluene
Concen: 974.57 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 19927

Ion	Ratio	Lower	Upper
91	100		
92	59.8	30.0	90.0

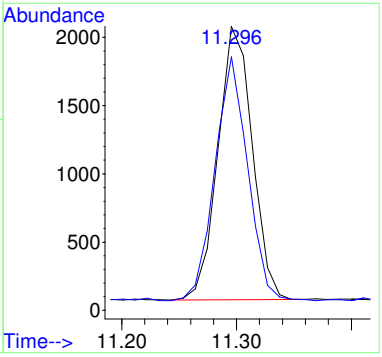


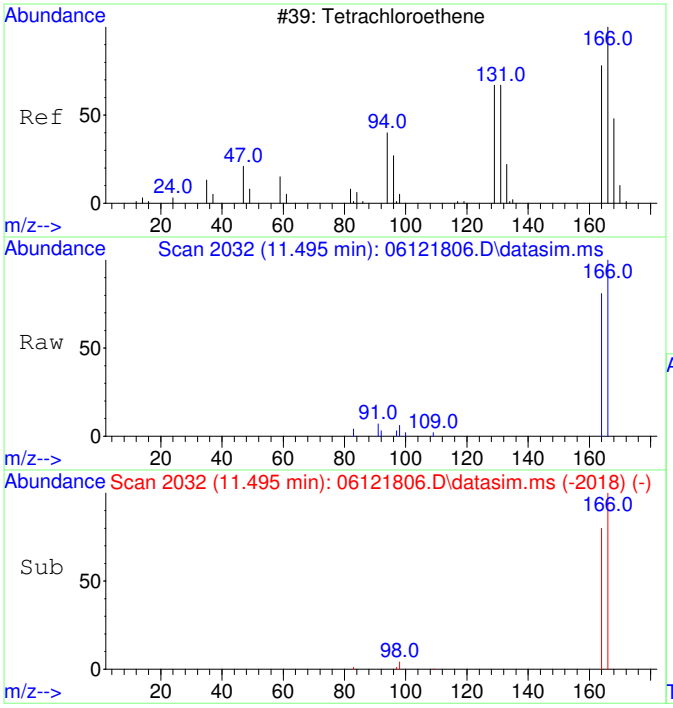


#14
1,1,2-Trichloroethane
Concen: 987.89 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 97 Resp: 4175

Ion	Ratio	Lower	Upper
97	100		
83	84.8	53.4	113.4

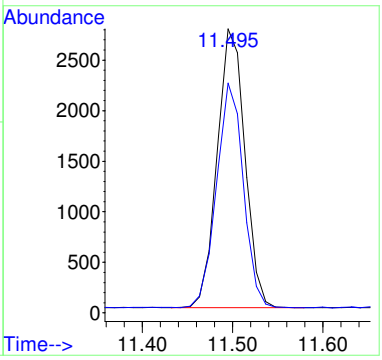


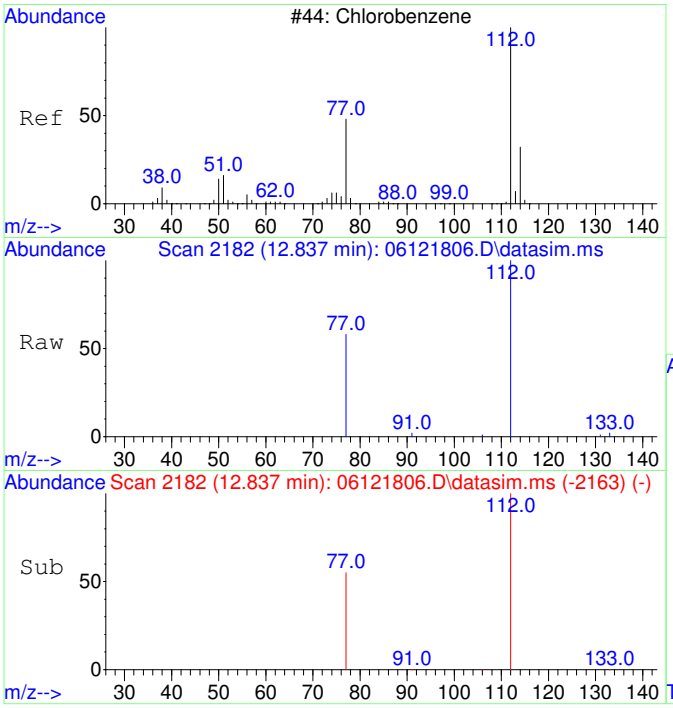


#15
Tetrachloroethene
Concen: 1022.60 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:166 Resp: 5891

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

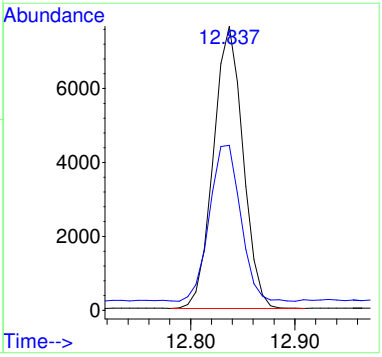


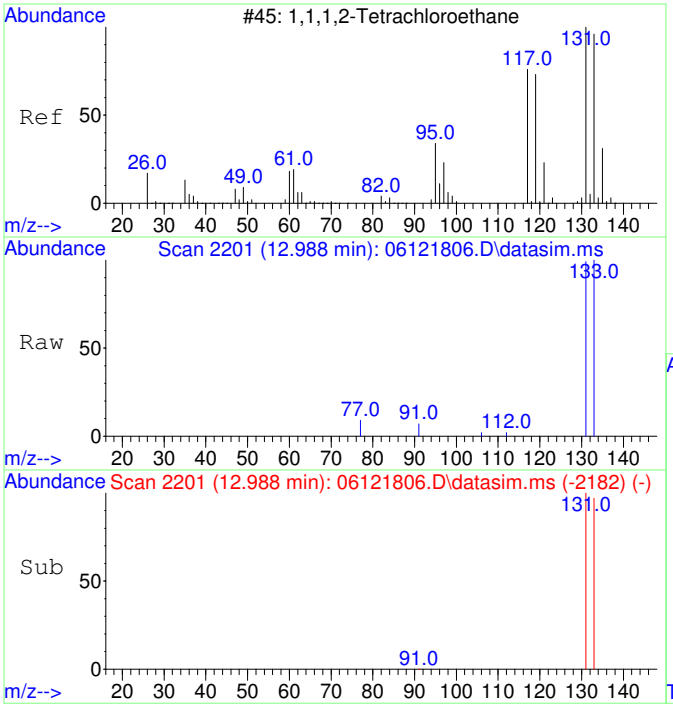


#16
Chlorobenzene
Concen: 1028.95 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:112 Resp: 15016

Ion	Ratio	Lower	Upper
112	100		
77	57.9	28.1	88.1

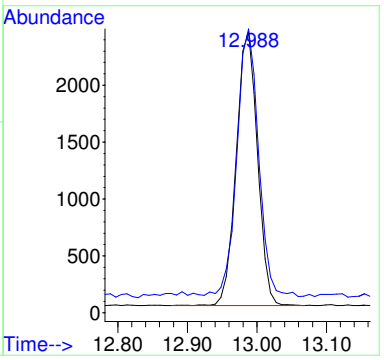


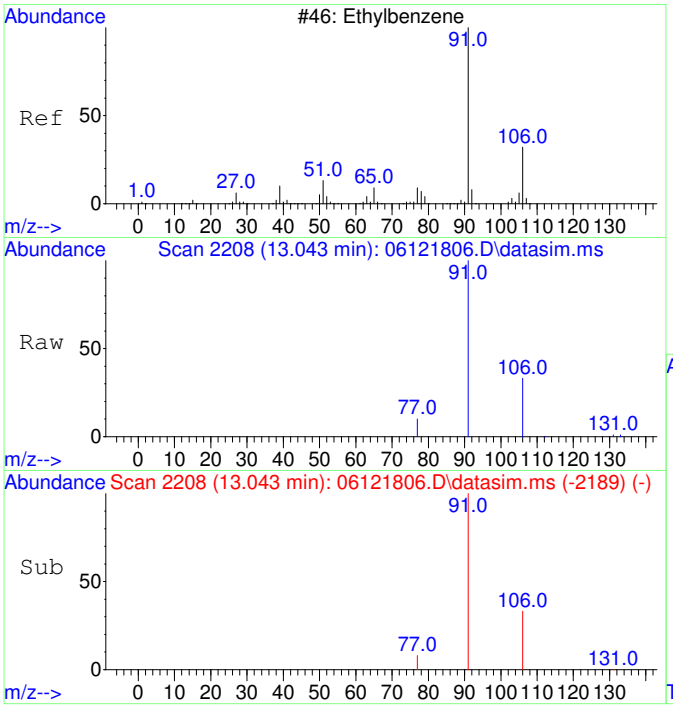


#17
1,1,1,2-Tetrachloroethane
Concen: 1030.18 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:131 Resp: 5102

Ion	Ratio	Lower	Upper
131	100		
133	99.1	66.2	126.2

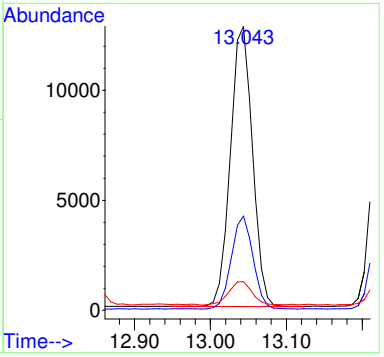


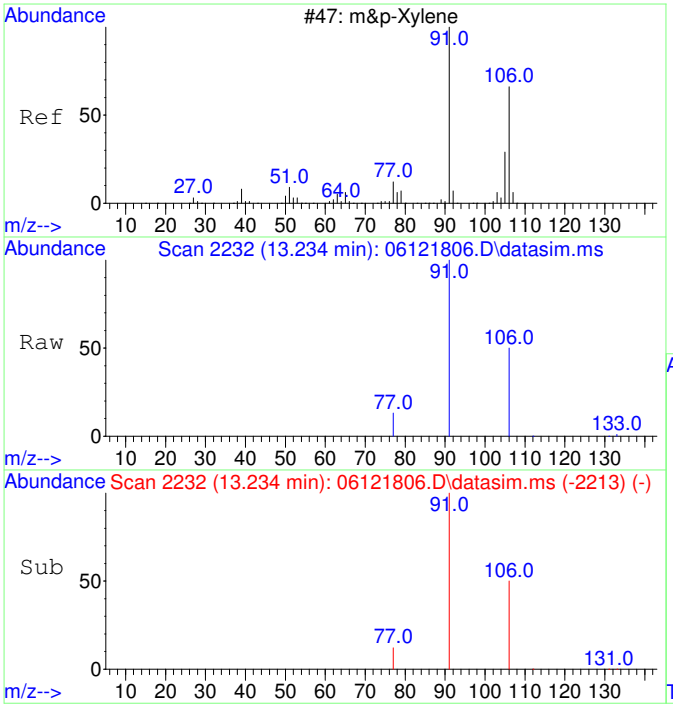


#18
Ethylbenzene
Concen: 1047.26 ug/L
RT: 13.043 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

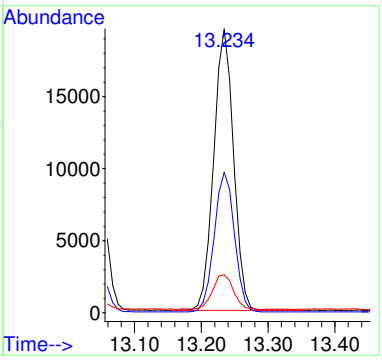


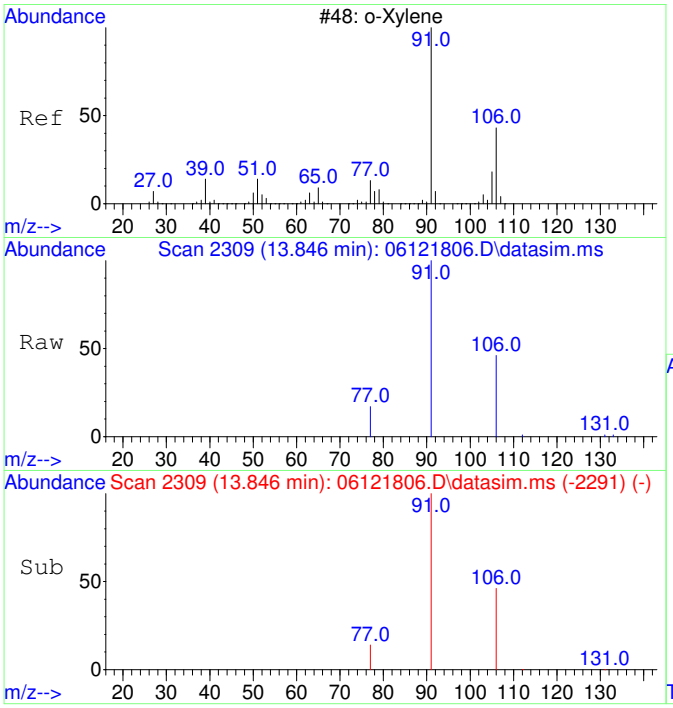


#19
m&p-Xylene
Concen: 2126.18 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

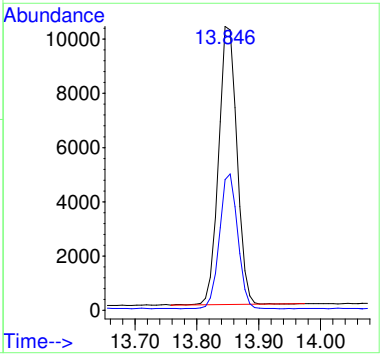


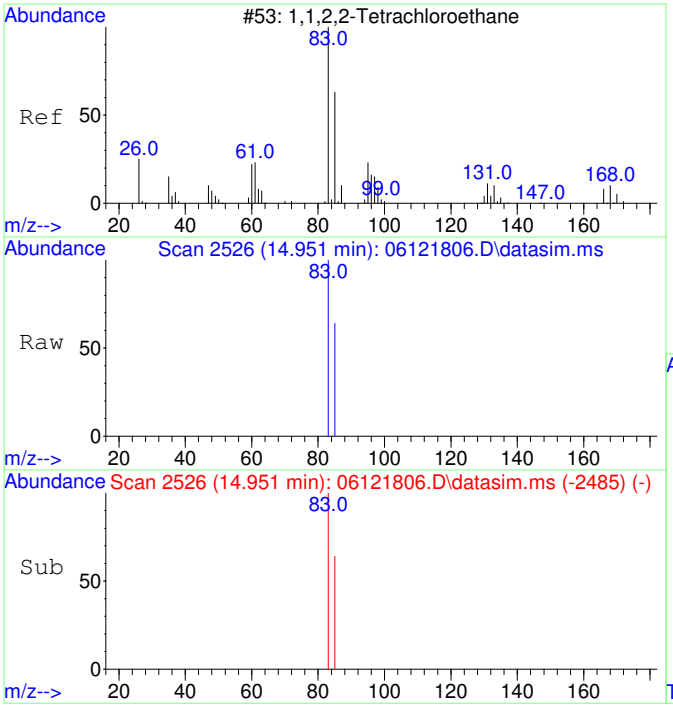


#20
o-Xylene
Concen: 1052.20 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 91 Resp: 21104

Ion	Ratio	Lower	Upper
91	100		
106	48.1	18.3	78.3

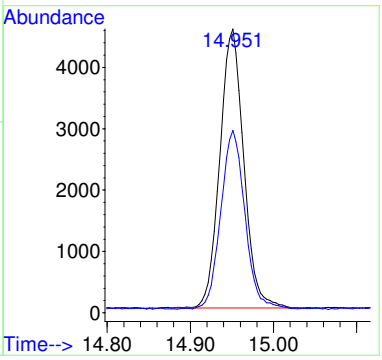


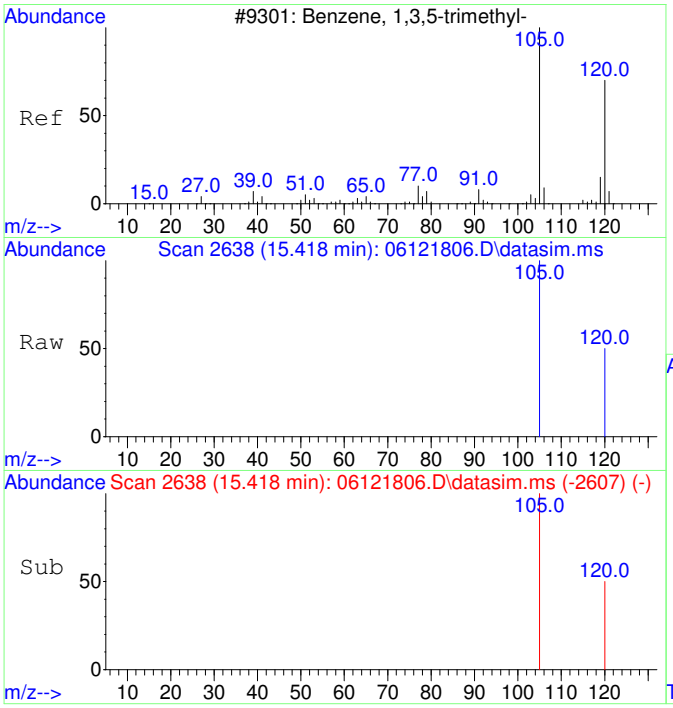


#21
1,1,2,2-Tetrachloroethane
Concen: 1051.19 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 83 Resp: 9080

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.4	94.4

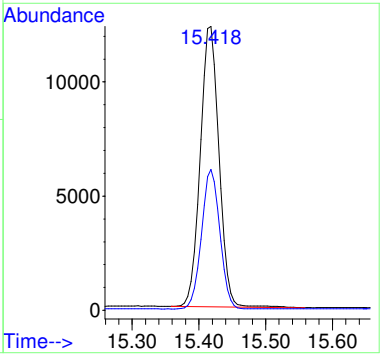


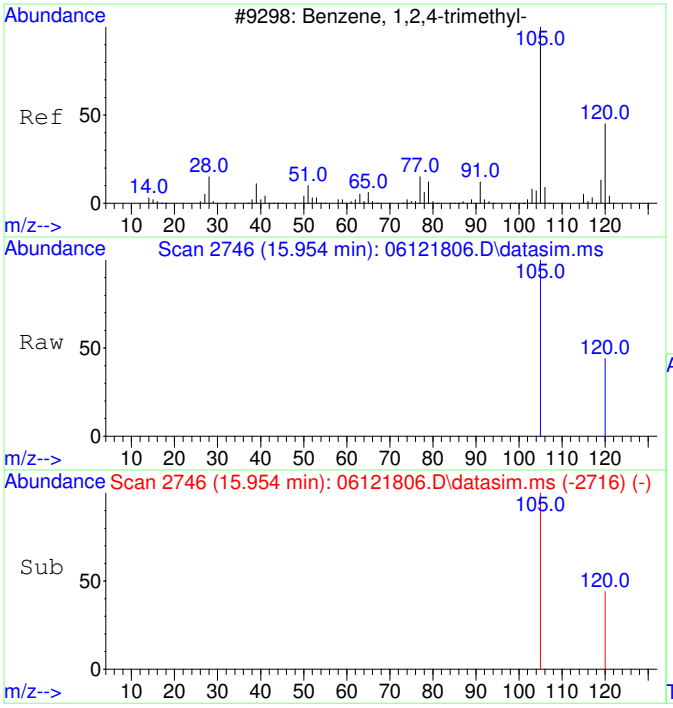


#22
1,3,5-Trimethylbenzene
Concen: 1055.83 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 23961

Ion	Ratio	Lower	Upper
105	100		
120	48.4	19.1	79.1

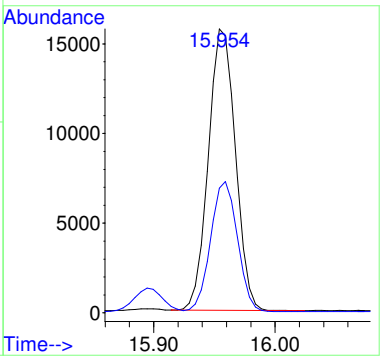


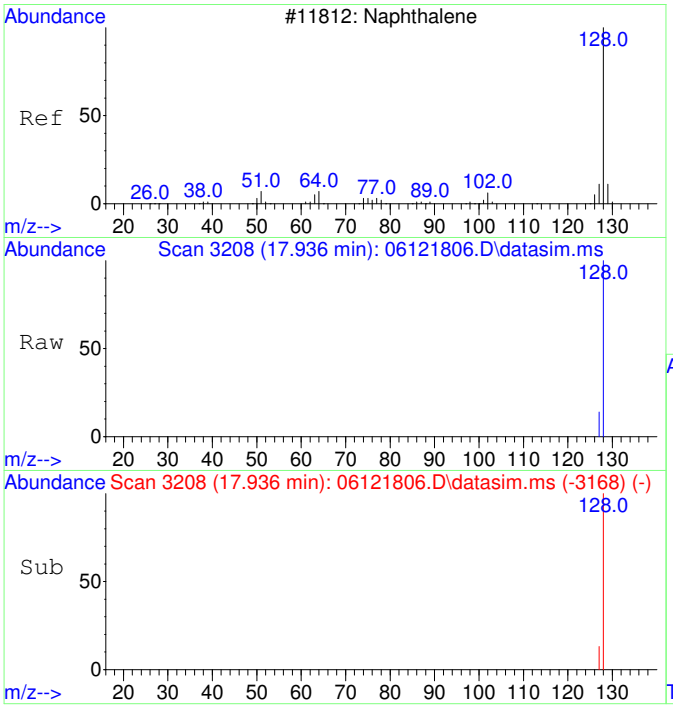


#23
1,2,4-Trimethylbenzene
Concen: 1071.21 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:105 Resp: 24317

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

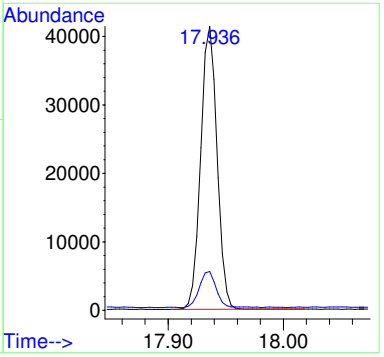


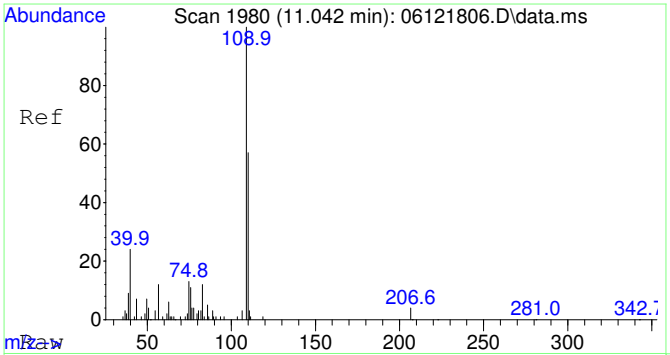


#24
Naphthalene
Concen: 1088.43 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:128 Resp: 40548

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.5

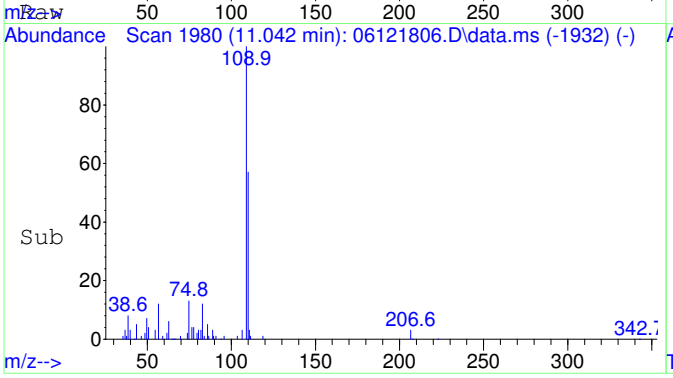


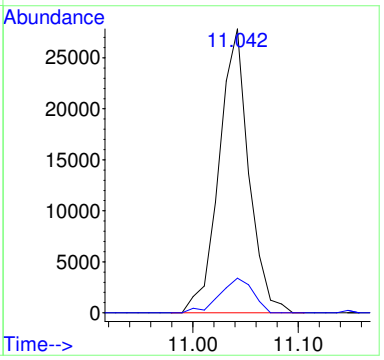


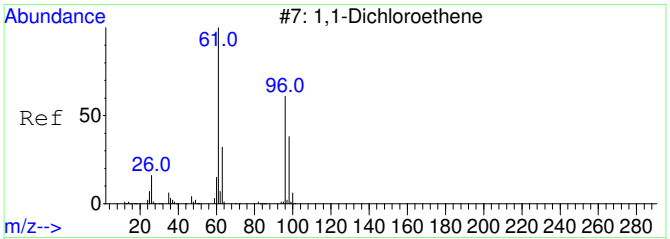
#25
2-Fluorotoluene SCAN
Concen: 5005.66 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion:109 Resp: 54763

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	45.7



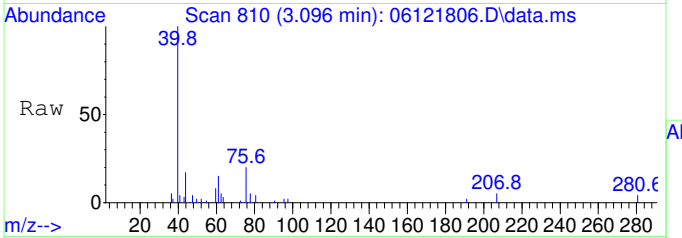


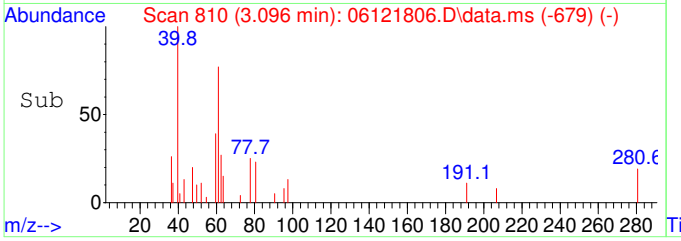


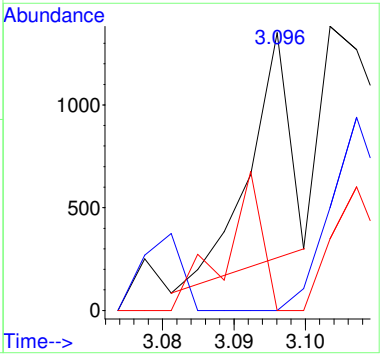
#26
1,1-Dichloroethene SCAN
Concen: 164.47 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.015 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

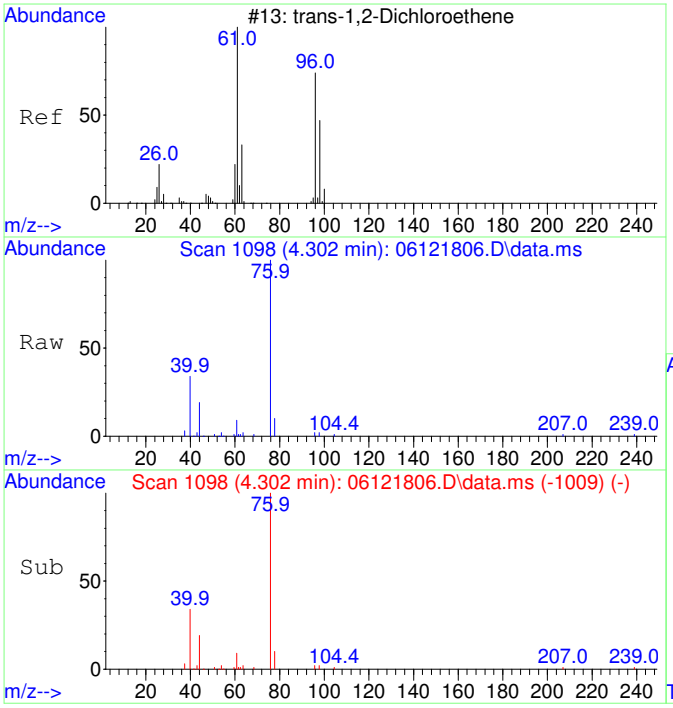
Tgt Ion: 61 Resp: 449

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





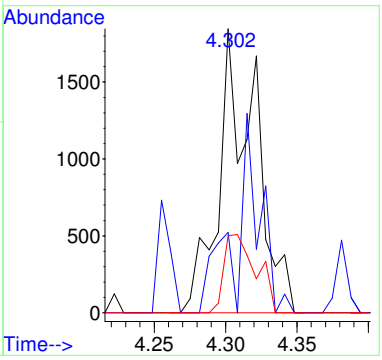


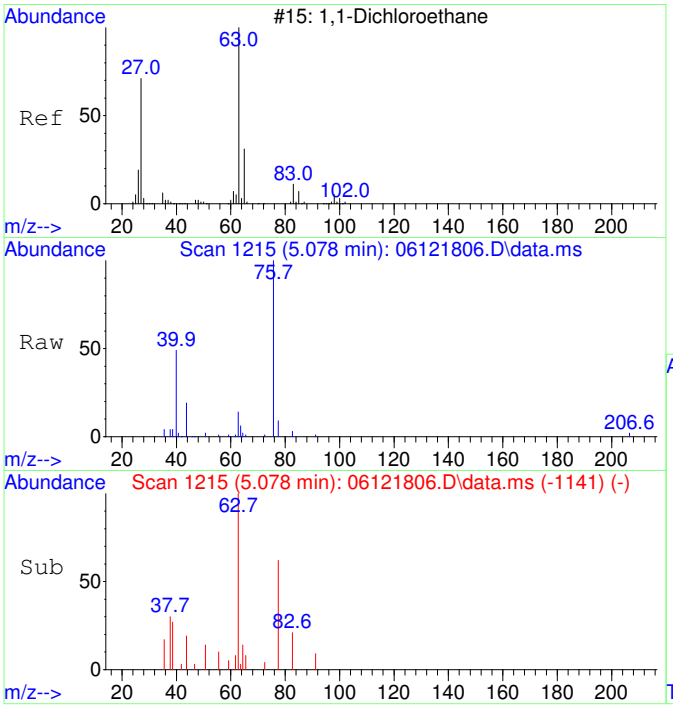


#27
trans-1,2-Dichloroethene SCAN
Concen: 1038.01 ug/L
RT: 4.302 min Scan# 1098
Delta R.T. -0.033 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

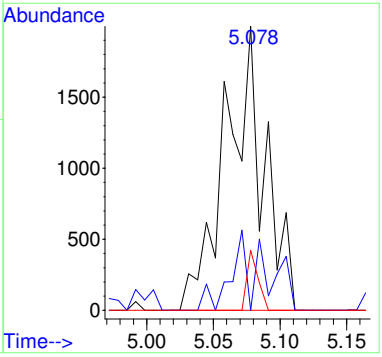


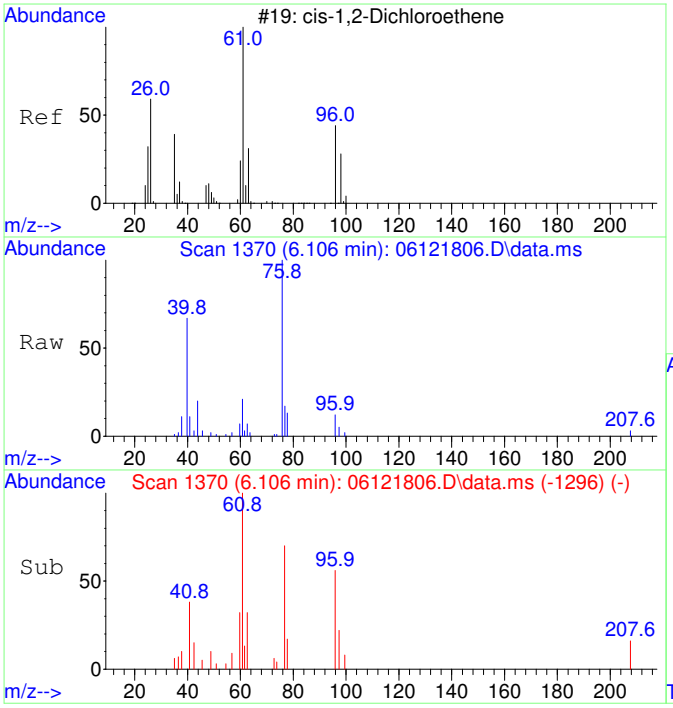


#28
1,1-Dichloroethane SCAN
Concen: 1005.39 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

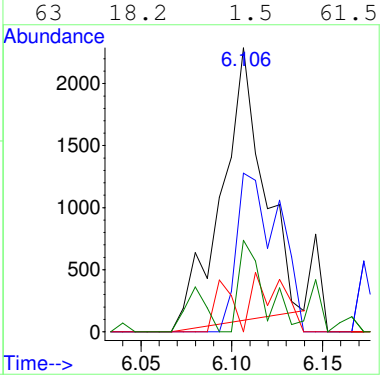


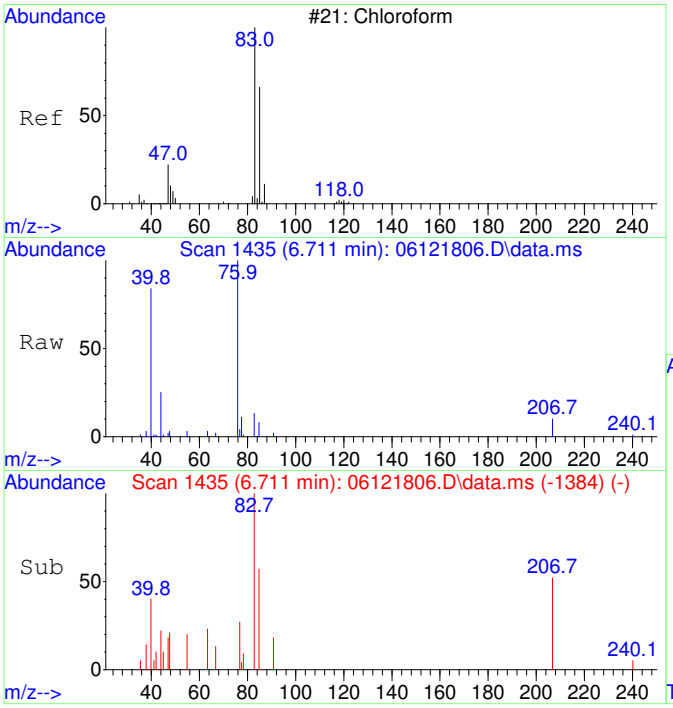


#29
cis-1,2-Dichloroethene SCAN
Concen: 1020.65 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.006 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

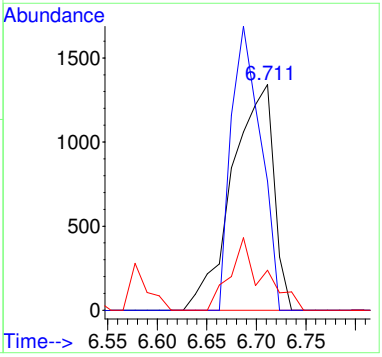


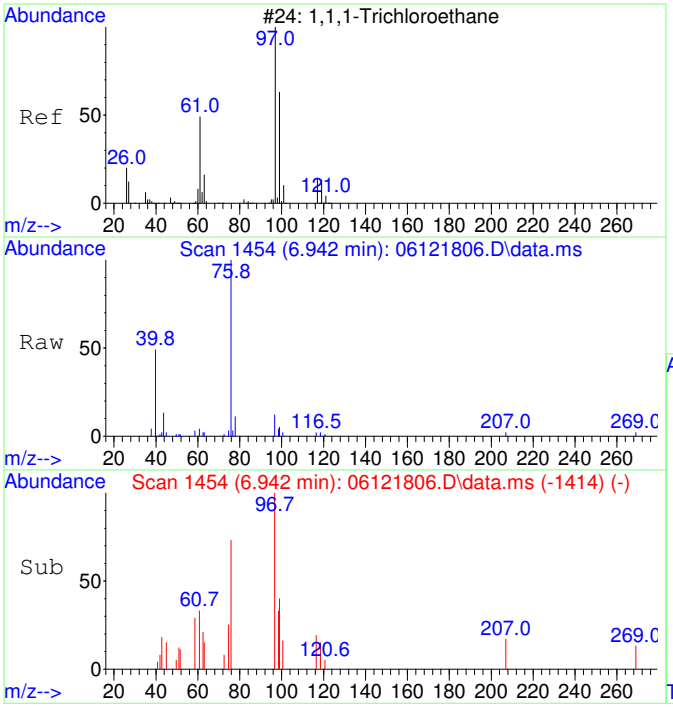


#30
Chloroform SCAN
Concen: 913.54 ug/L
RT: 6.711 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

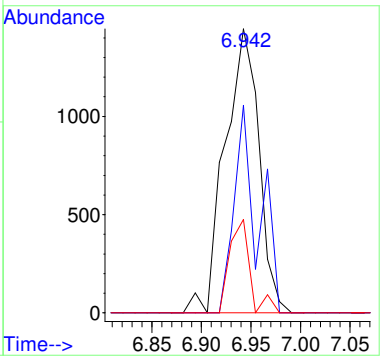


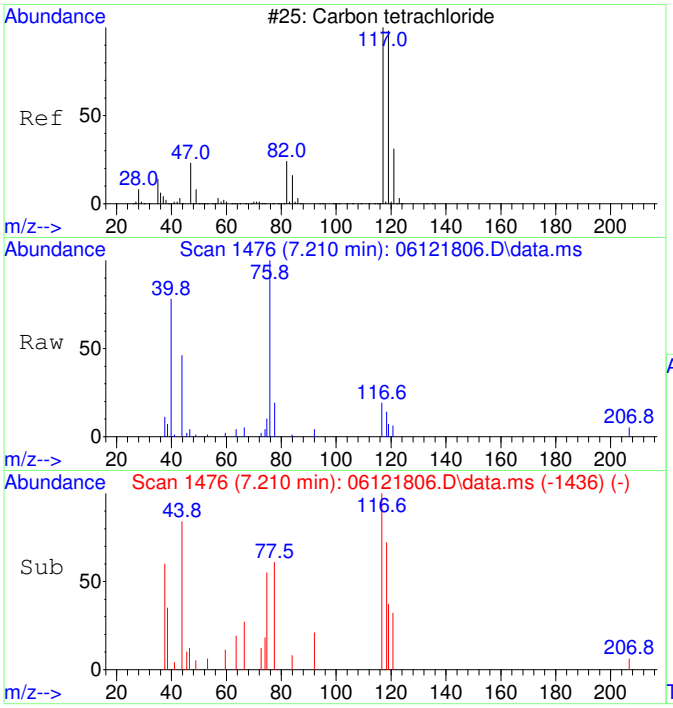


#31
1,1,1-Trichloroethane SCAN
Concen: 905.32 ug/L
RT: 6.942 min Scan# 1454
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

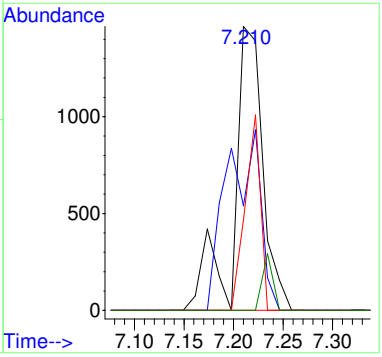


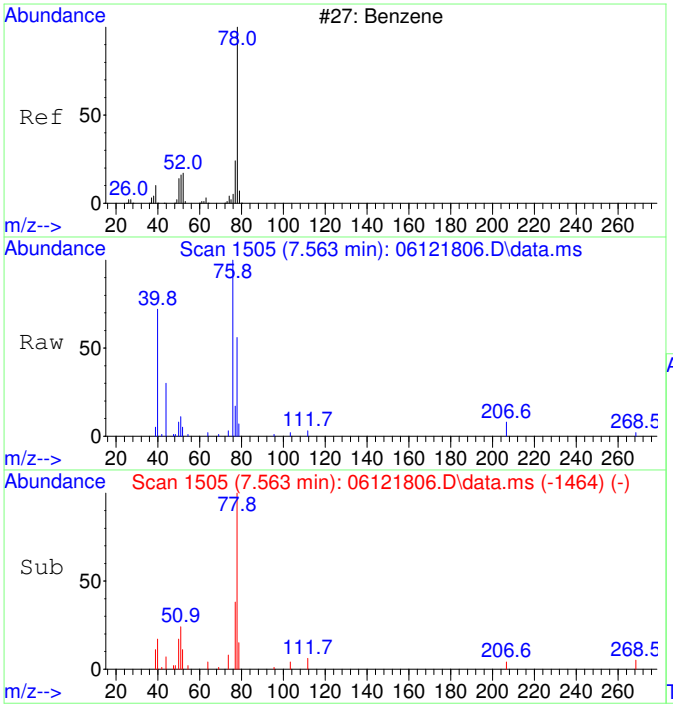


#32
Carbon tetrachloride SCAN
Concen: 783.60 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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#

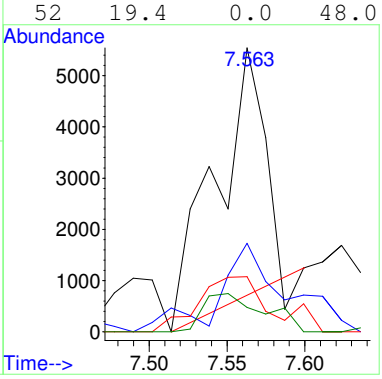


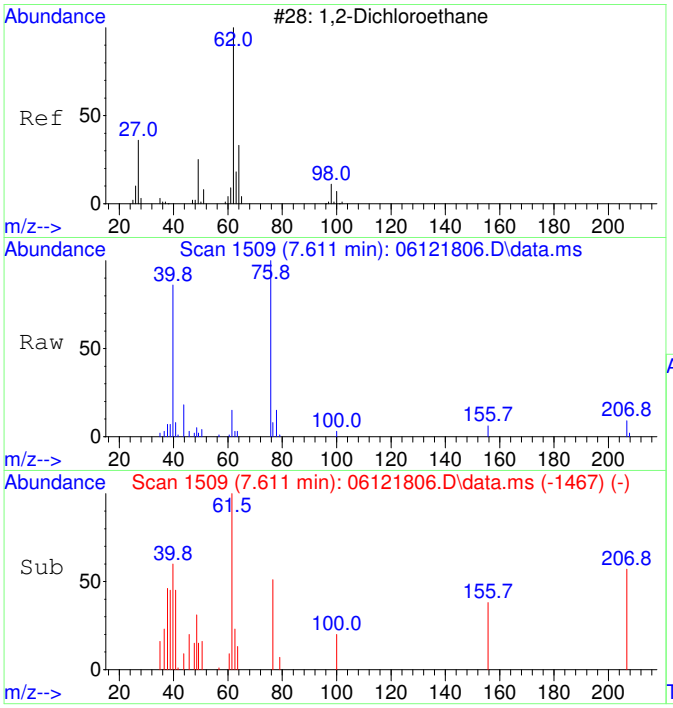


#33
Benzene SCAN
Concen: 923.58 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

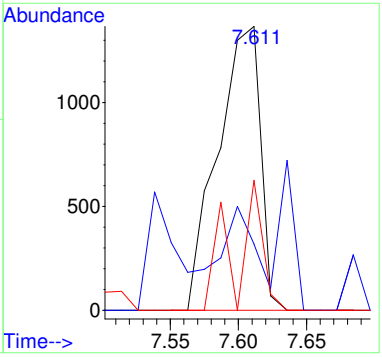


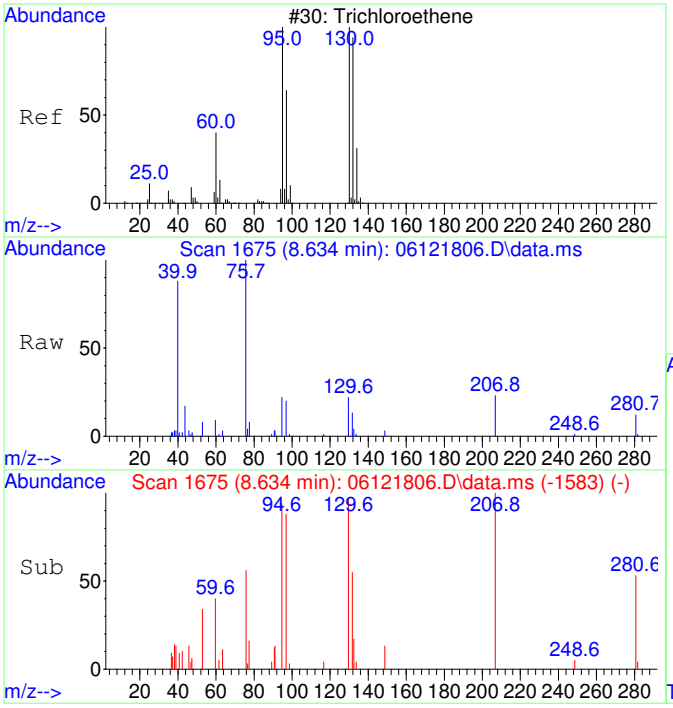


#34
1,2-Dichloroethane SCAN
Concen: 768.98 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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#

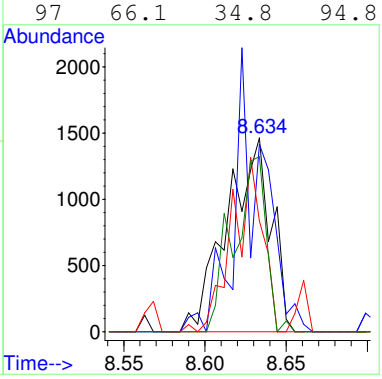


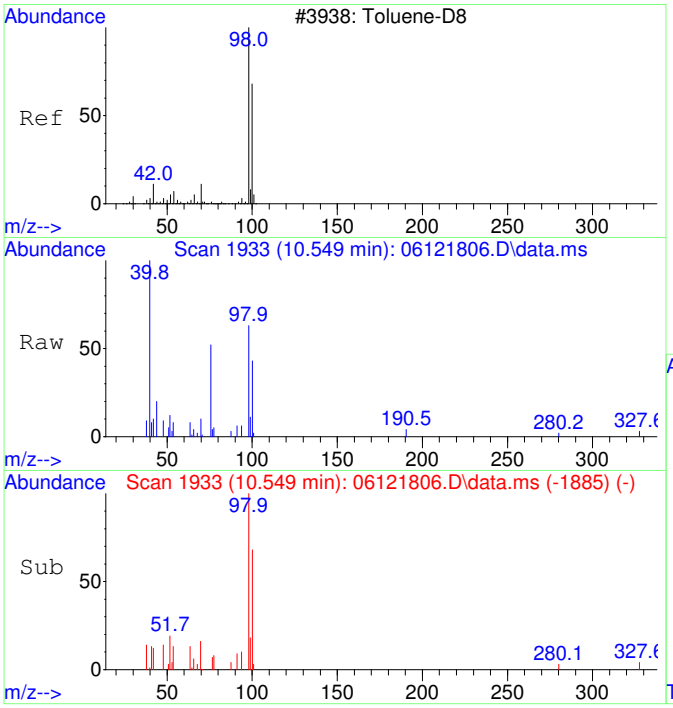


#35
Trichloroethene SCAN
Concen: 999.60 ug/L
RT: 8.634 min Scan# 1675
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

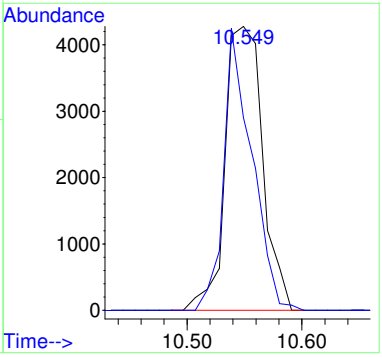


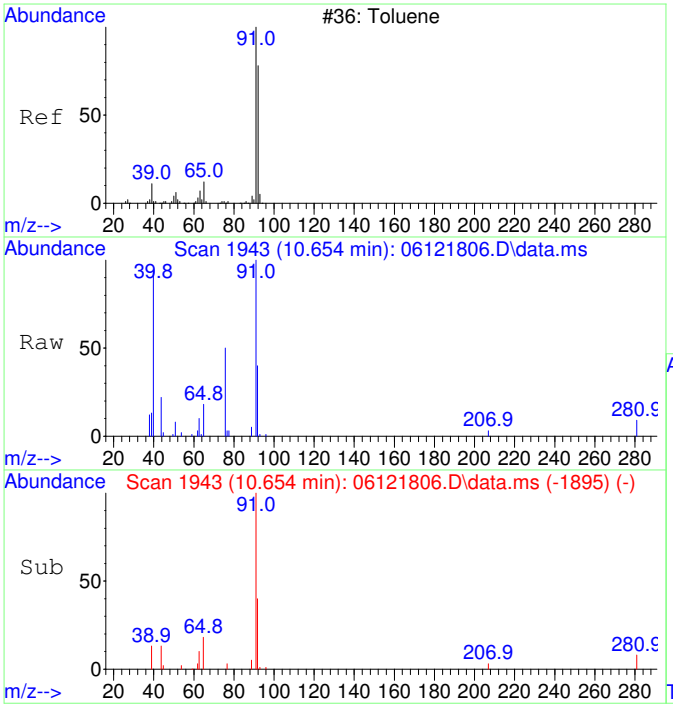


#36
Toluene-d8 SCAN
Concen: 982.82 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

Tgt Ion: 98 Resp: 9720

Ion	Ratio	Lower	Upper
98	100		
100	74.5	39.5	99.5

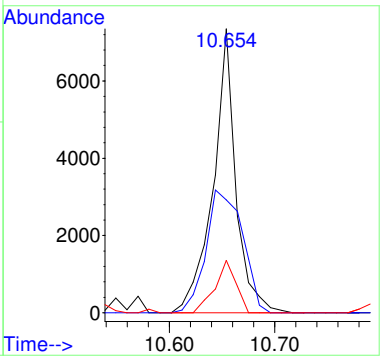


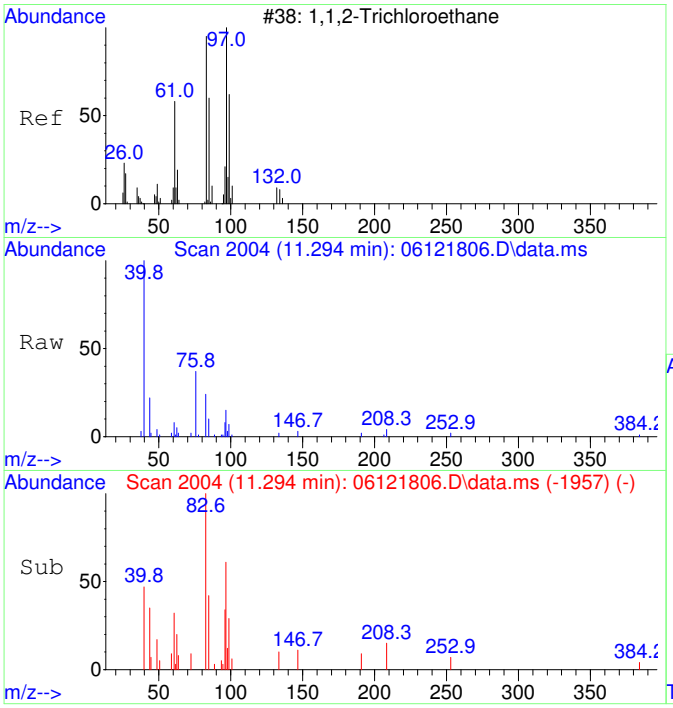


#37
Toluene SCAN
Concen: 876.73 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

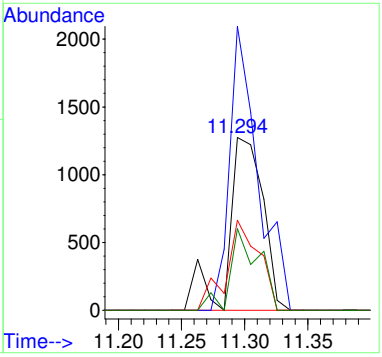


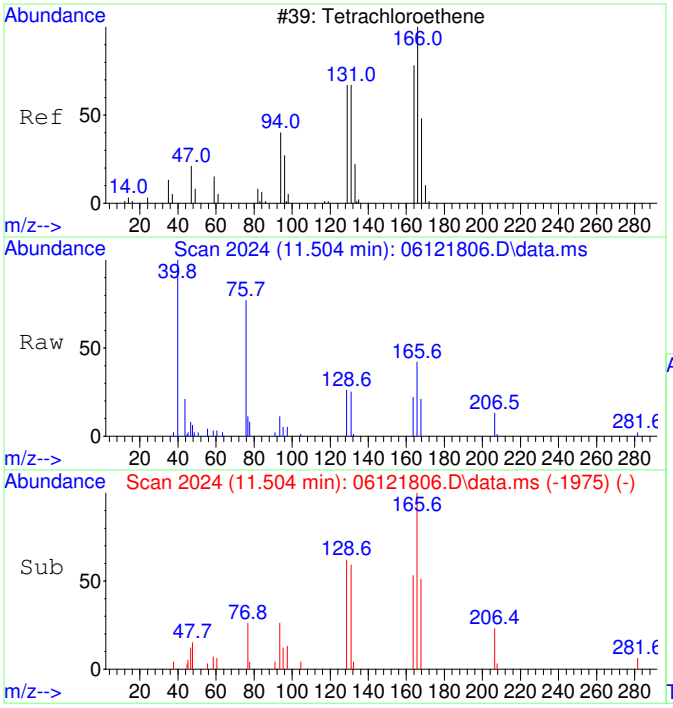


#38
1,1,2-Trichloroethane SCAN
Concen: 999.66 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

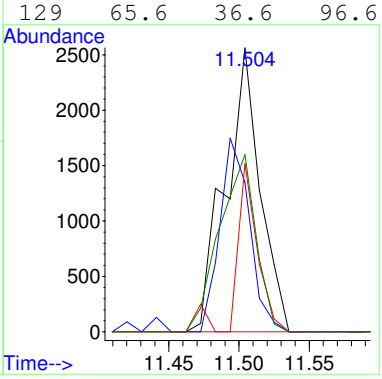


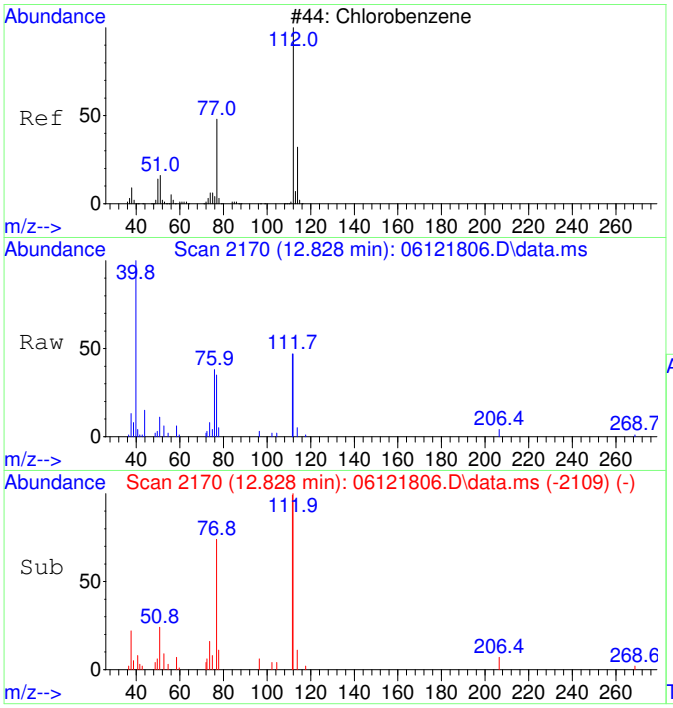


#39
Tetrachloroethene SCAN
Concen: 1592.94 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.011 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

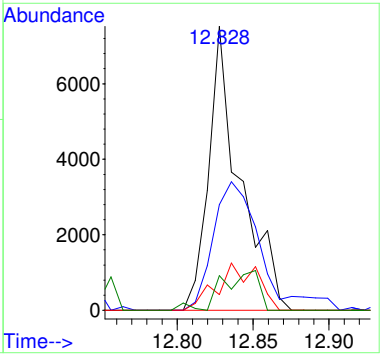


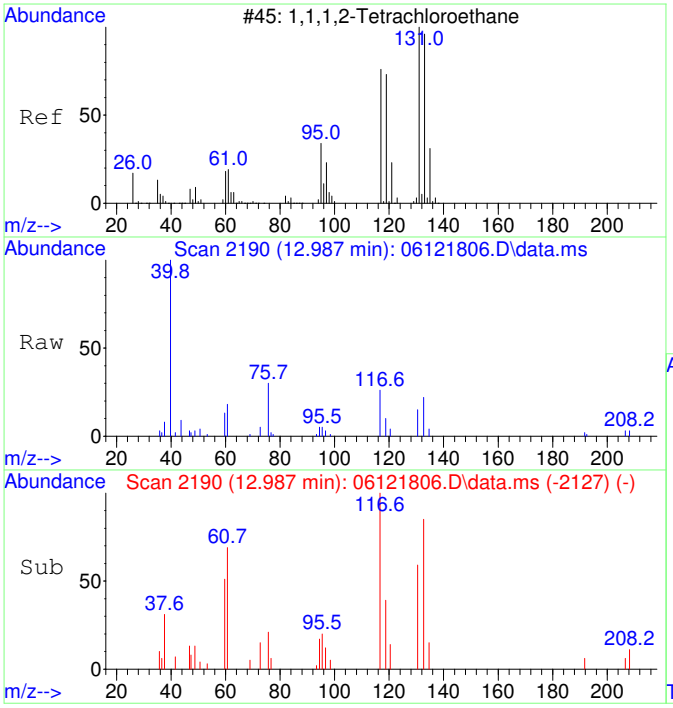


#40
Chlorobenzene SCAN
Concen: 1410.03 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.016 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

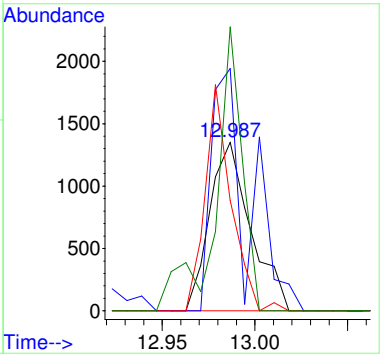


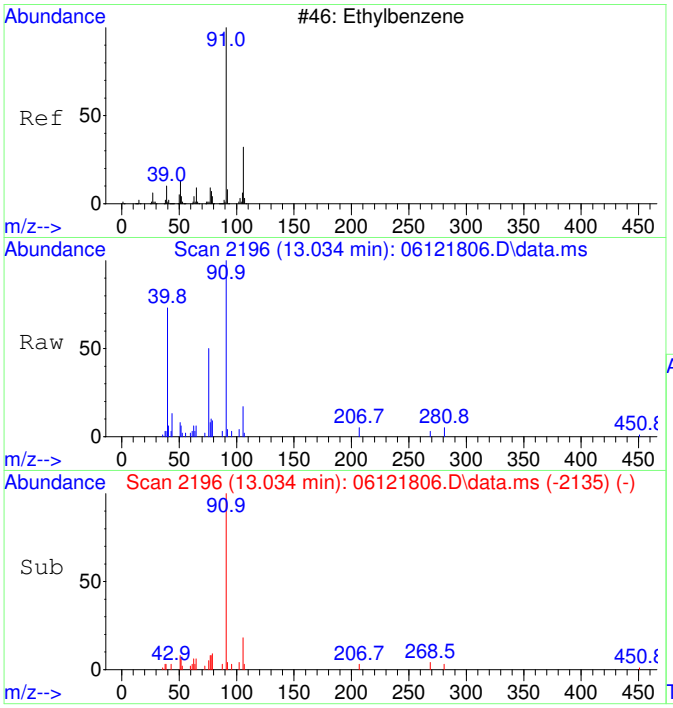


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 761.47 ug/L
RT: 12.987 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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#

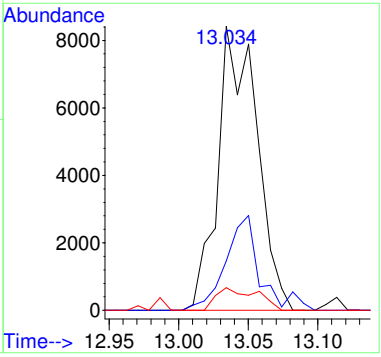


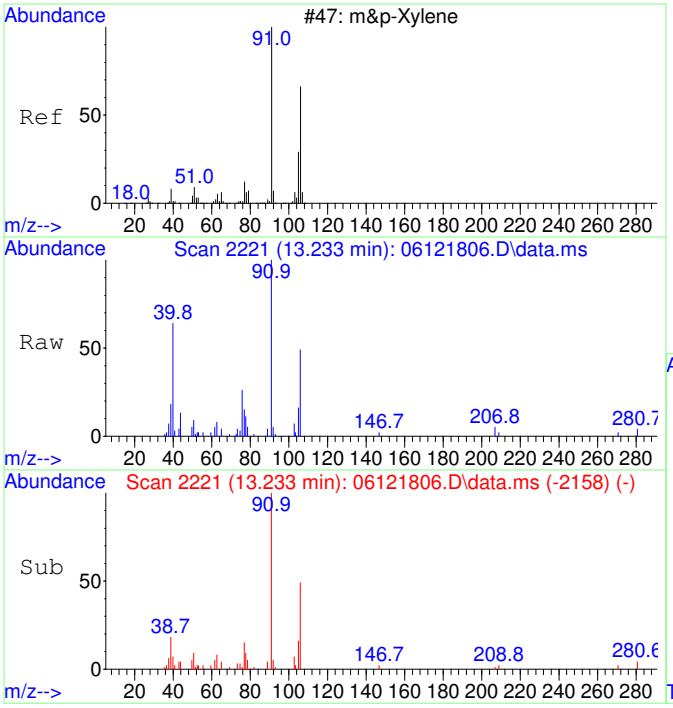


#42
Ethylbenzene SCAN
Concen: 1119.12 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.016 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

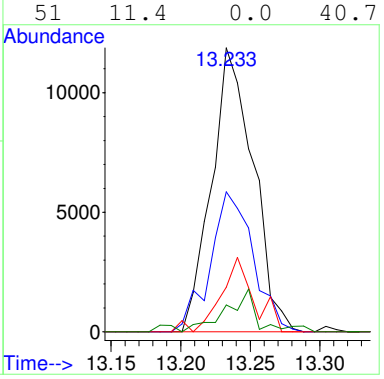


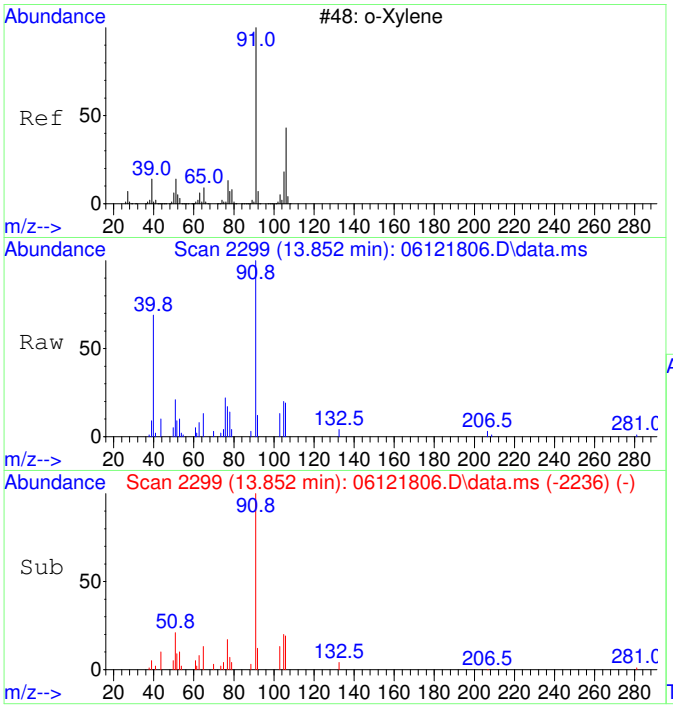


#43
m&p-Xylene SCAN
Concen: 1212.80 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

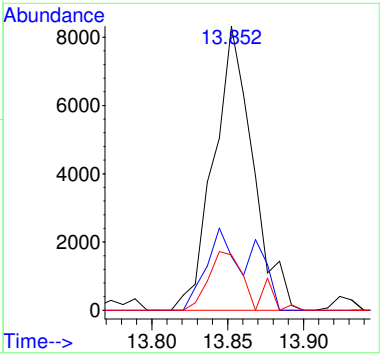


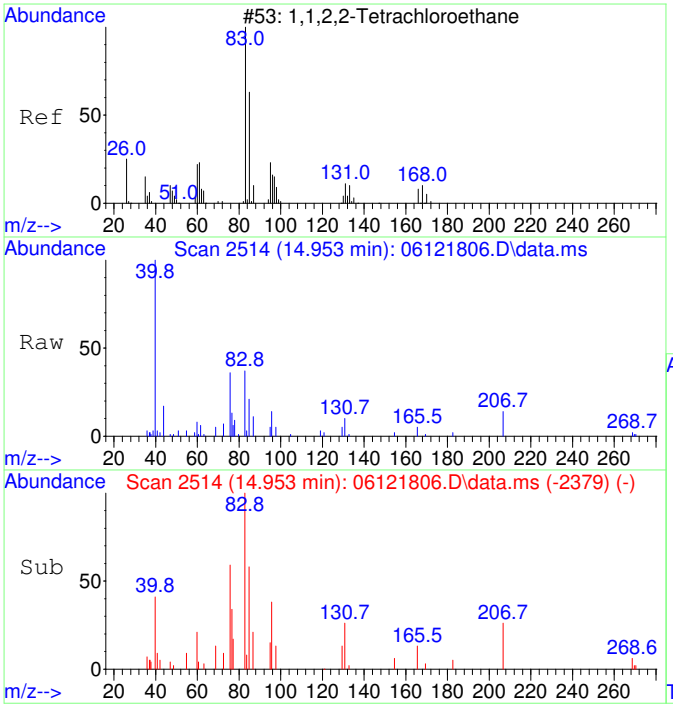


#44
o-Xylene SCAN
Concen: 1285.26 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

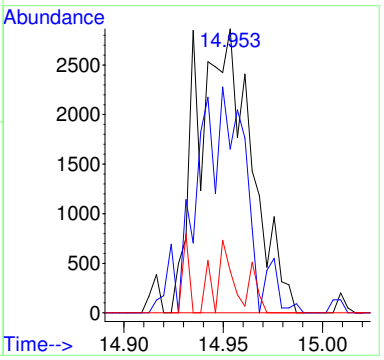


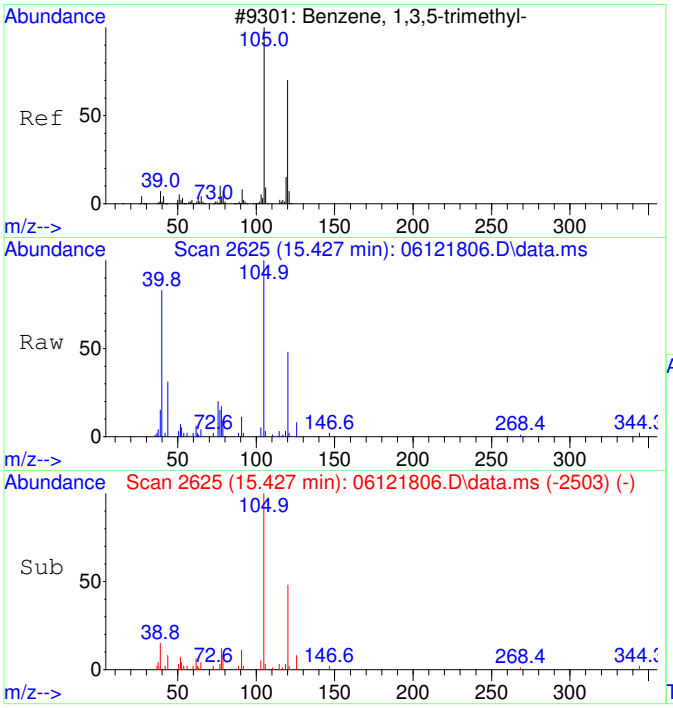


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 988.43 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

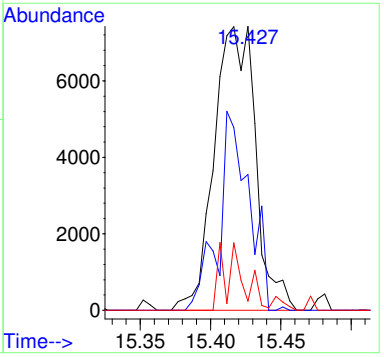


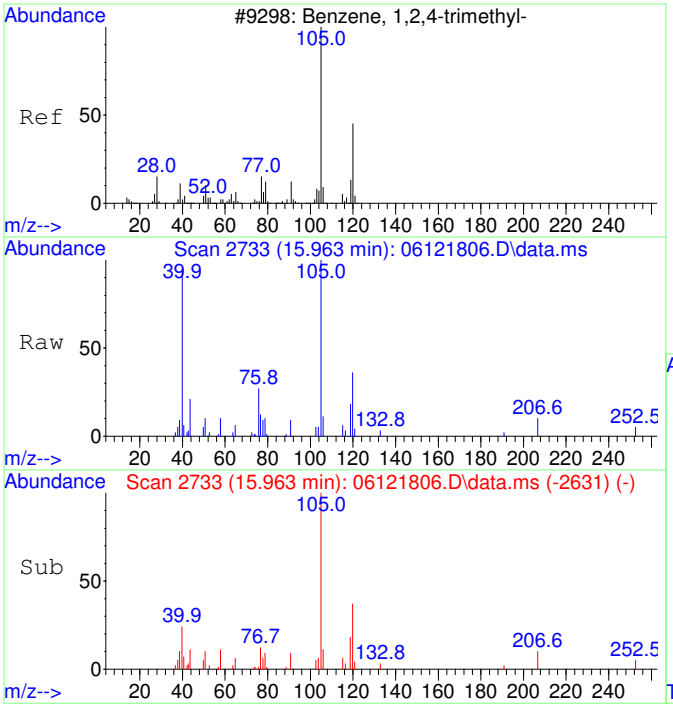


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1326.26 ug/L
RT: 15.427 min Scan# 2625
Delta R.T. 0.014 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

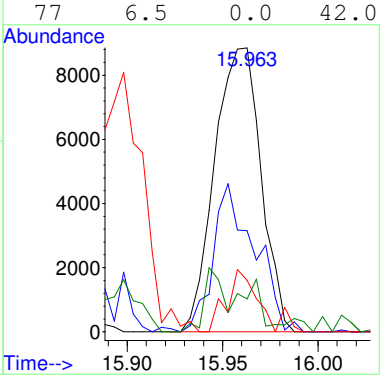


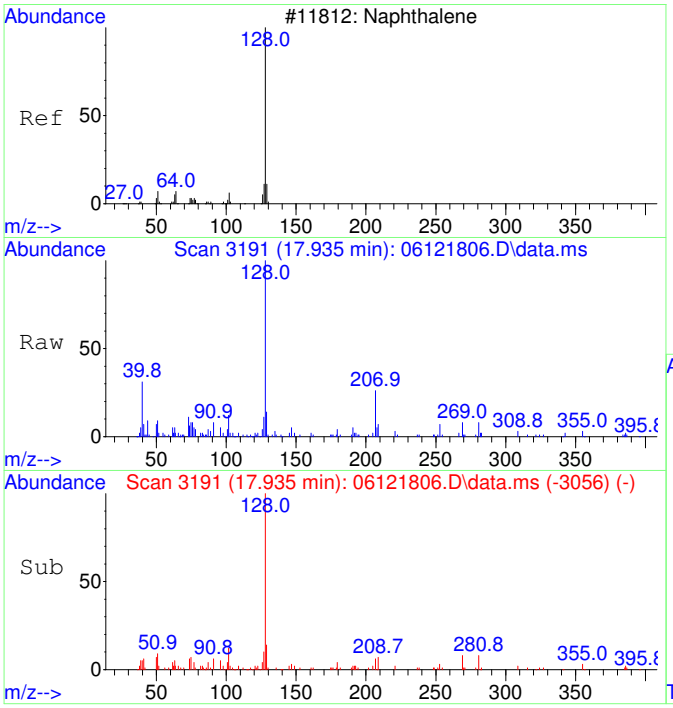


#47
1,2,4-Trimethylbenzene SCAN
Concen: 1271.38 ug/L
RT: 15.963 min Scan# 2733
Delta R.T. 0.009 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

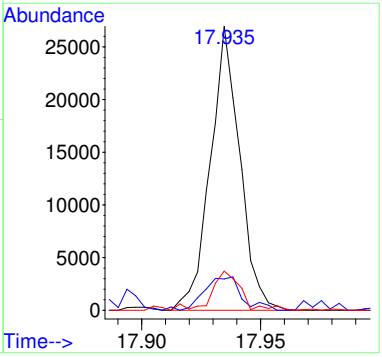




#48
Naphthalene SCAN
Concen: 1383.04 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. -0.000 min
Lab File: 06121806.D
Acq: 12 Jun 2018 14:55

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

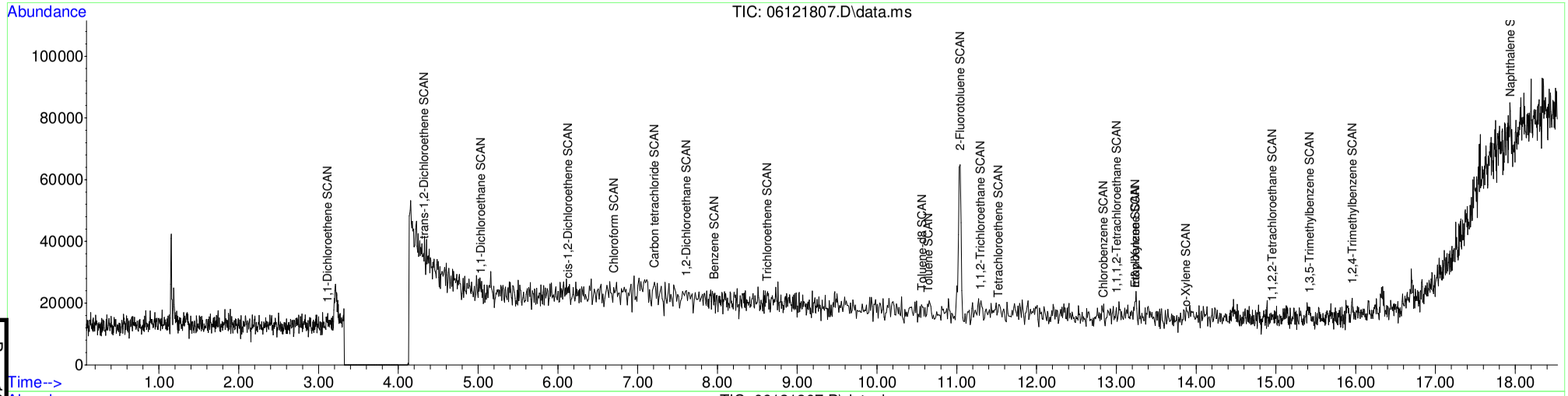
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	75573	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	1881	153.23	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 3.06%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	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

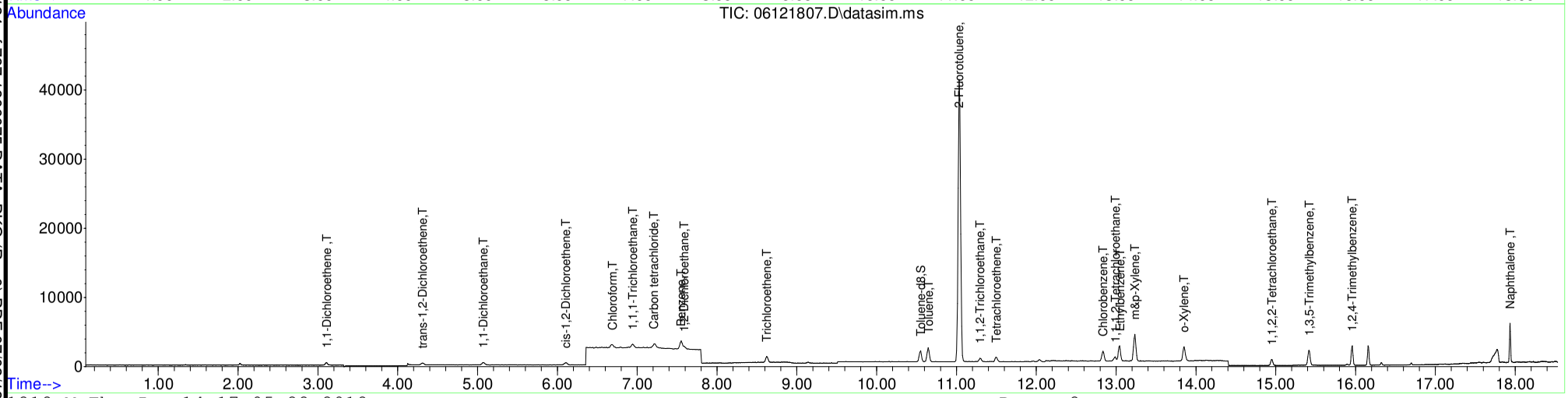
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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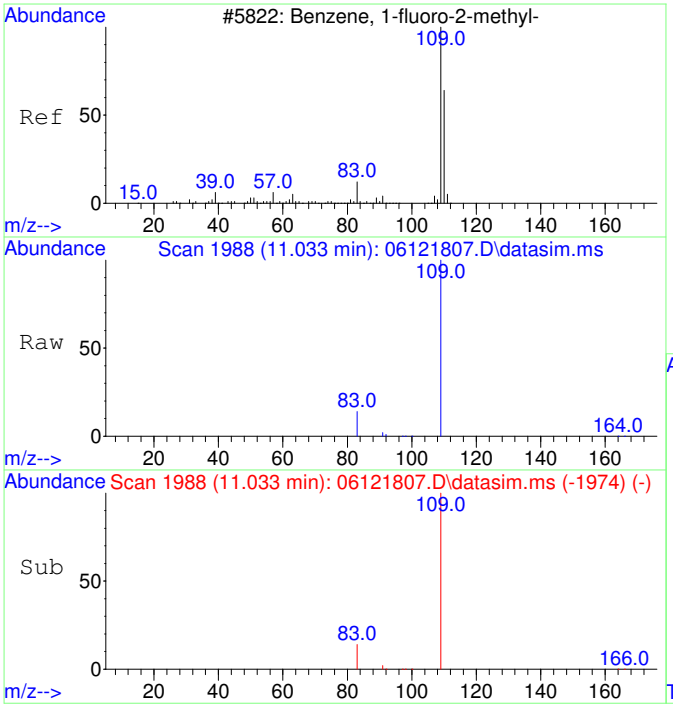
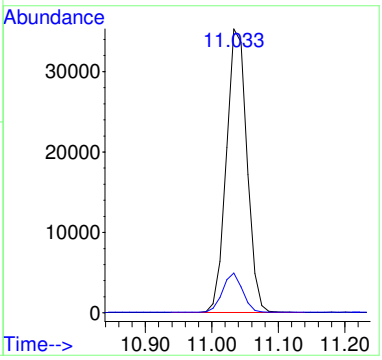
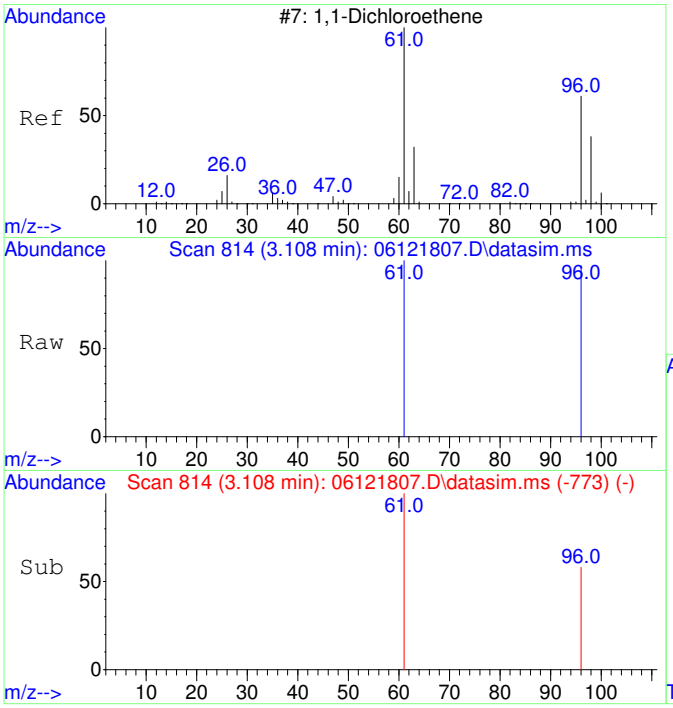


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:109 Resp: 75573

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	44.7

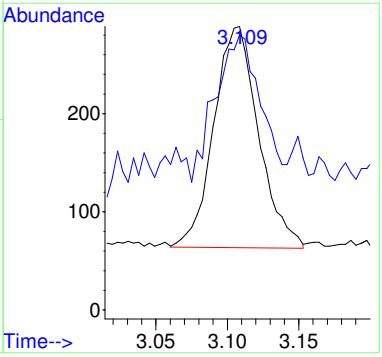


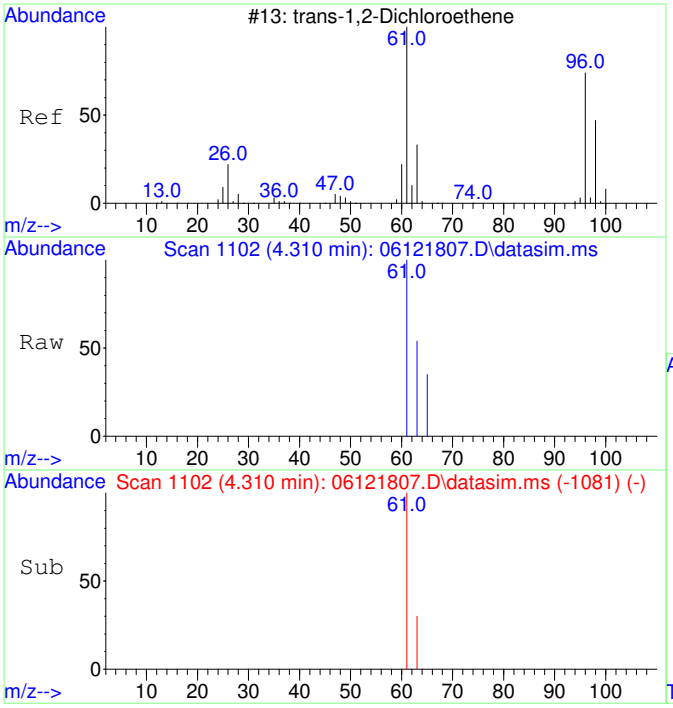


#2
1,1-Dichloroethene
Concen: 151.55 ug/L m
RT: 3.108 min Scan# 814
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 490

Ion	Ratio	Lower	Upper
61	100		
96	66.1	28.7	88.7

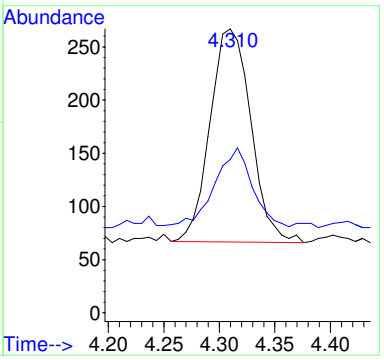


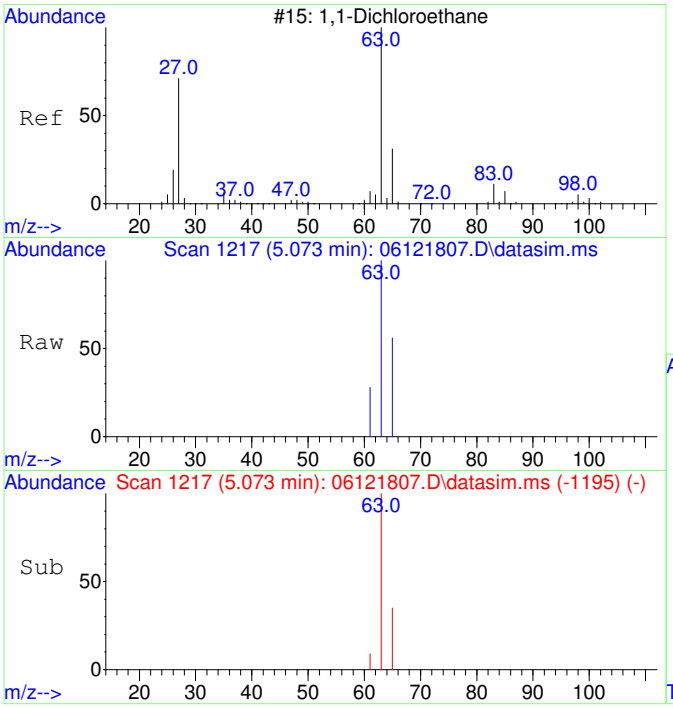


#3
trans-1,2-Dichloroethene
Concen: 152.10 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 514

Ion	Ratio	Lower	Upper
61	100		
63	35.2	2.0	62.0

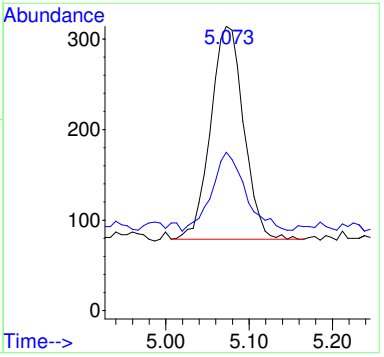


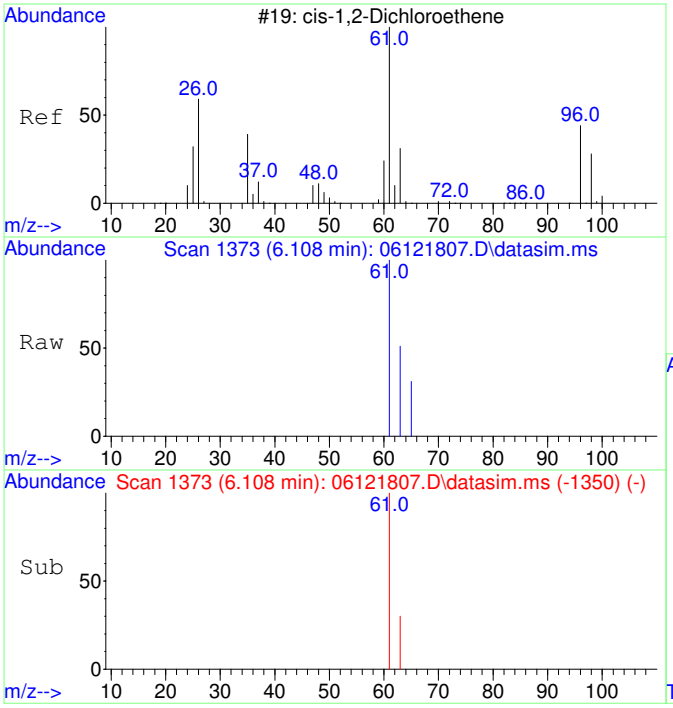


#4
1,1-Dichloroethane
Concen: 154.06 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 63 Resp: 648

Ion	Ratio	Lower	Upper
63	100		
65	37.8	1.5	61.5

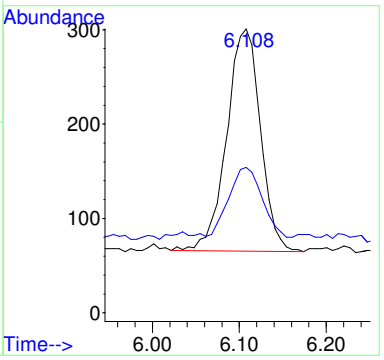


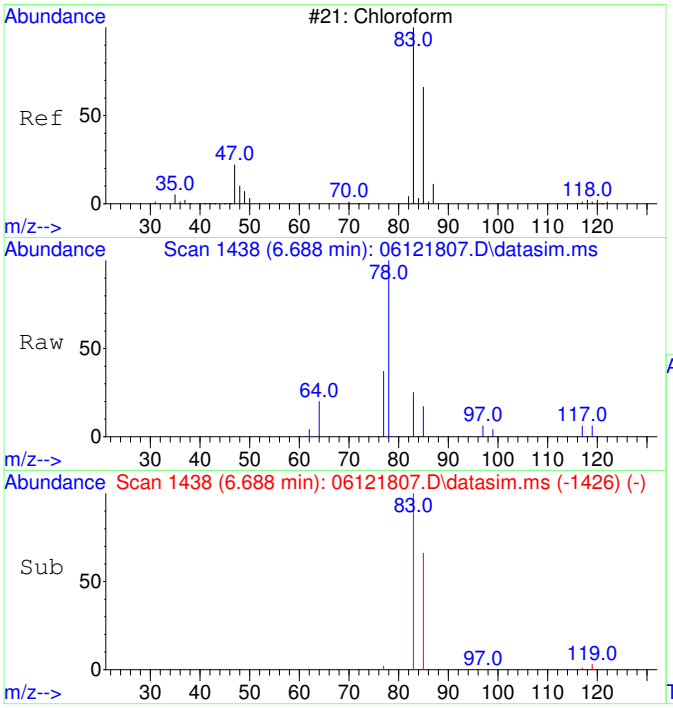


#5
cis-1,2-Dichloroethene
Concen: 153.04 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 635

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.2	62.2

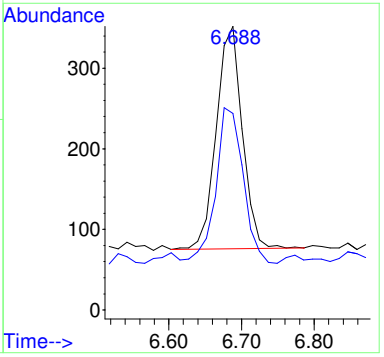


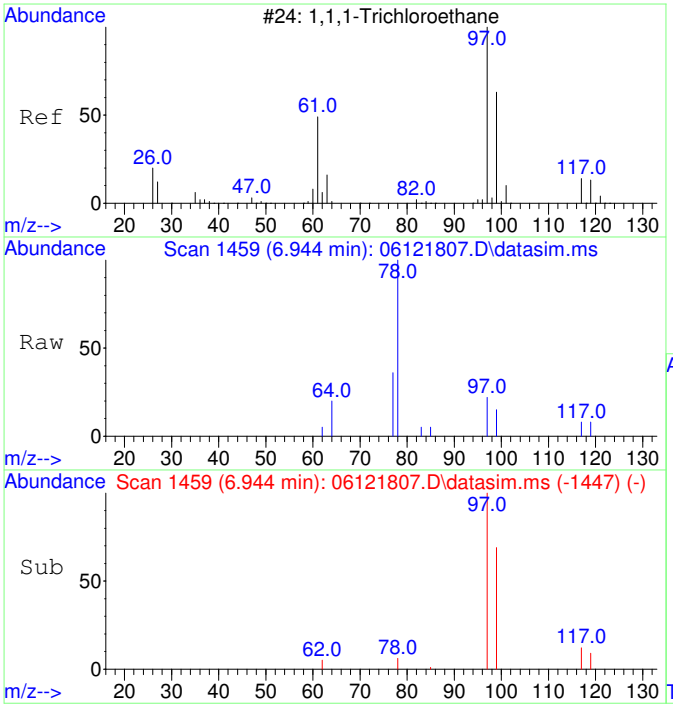


#6
Chloroform
Concen: 153.54 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 686

Ion	Ratio	Lower	Upper
83	100		
85	73.6	34.8	94.8

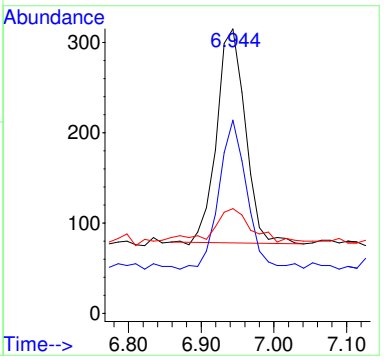


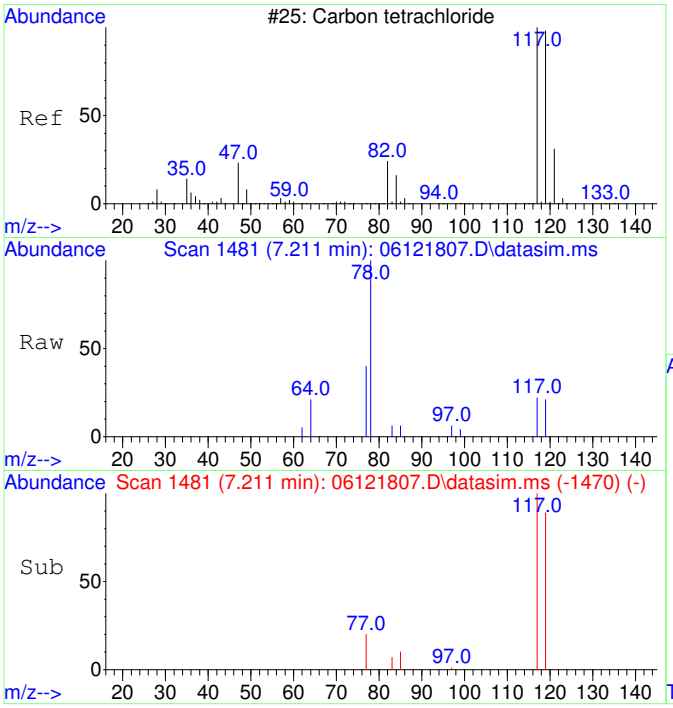


#7
1,1,1-Trichloroethane
Concen: 147.13 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

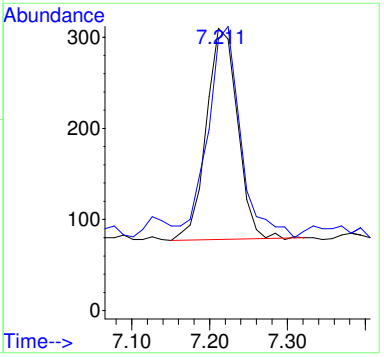


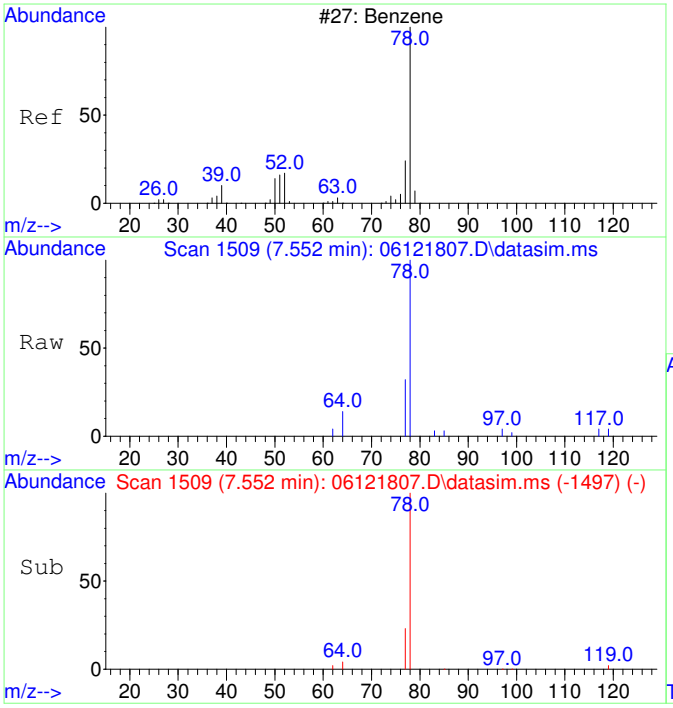


#8
Carbon tetrachloride
Concen: 154.60 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:117 Resp: 644

Ion	Ratio	Lower	Upper
117	100		
119	104.2	65.9	125.9

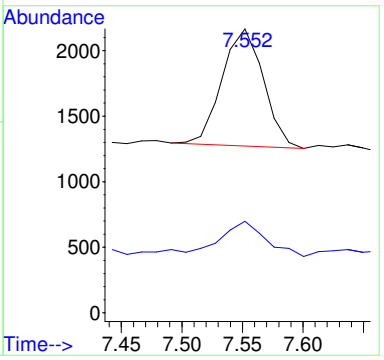


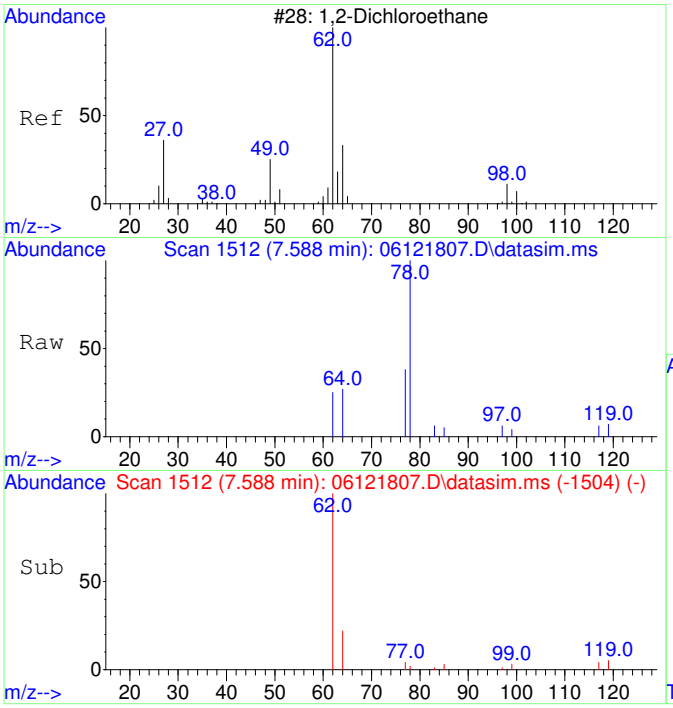


#9
Benzene
Concen: 174.39 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 78 Resp: 2116

Ion	Ratio	Lower	Upper
78	100		
77	37.9	0.0	53.0

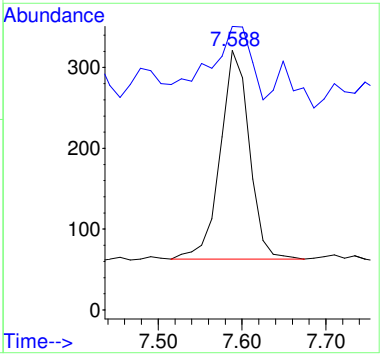


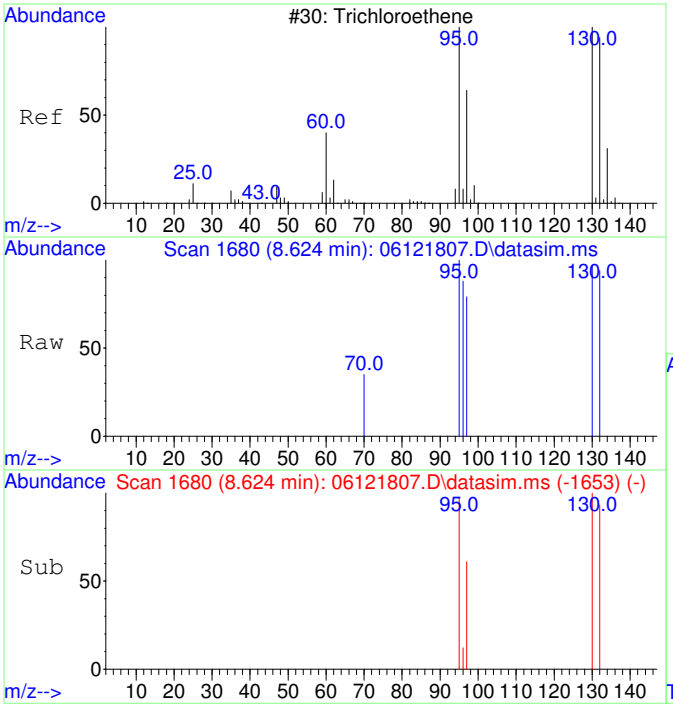


#10
1,2-Dichloroethane
Concen: 158.54 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 62 Resp: 620

Ion	Ratio	Lower	Upper
62	100		
64	48.7	2.3	62.3

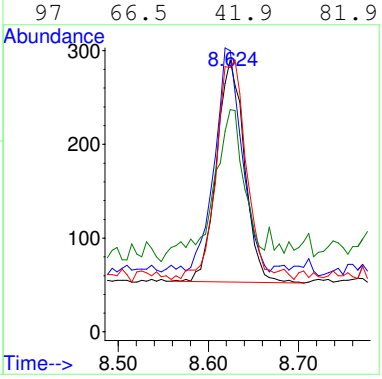


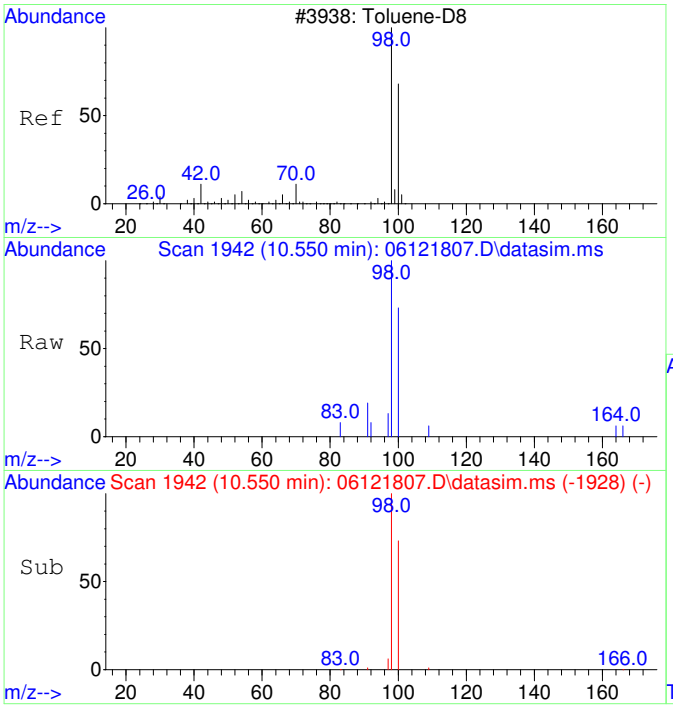


#11
Trichloroethene
Concen: 152.93 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

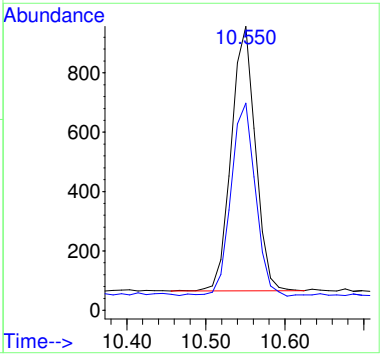


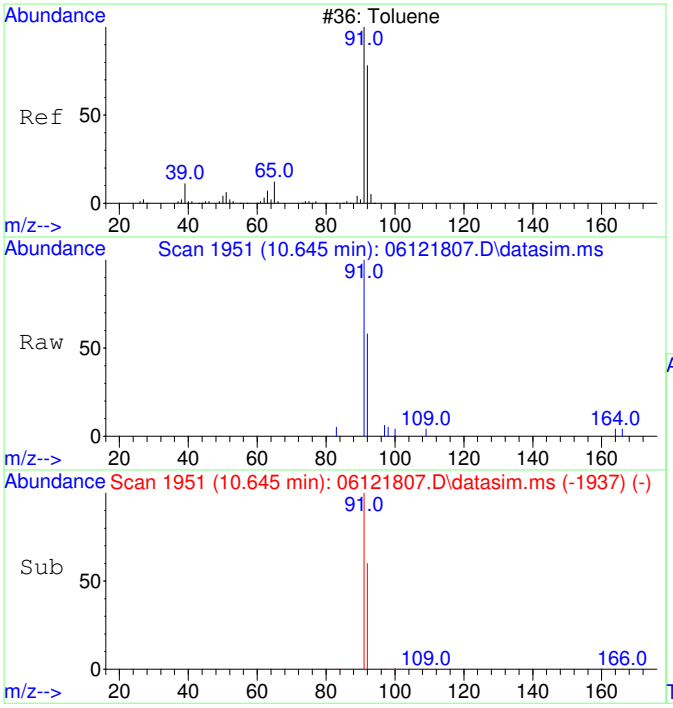


#12
Toluene-d8
Concen: 153.23 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 98 Resp: 1881

Ion	Ratio	Lower	Upper
98	100		
100	73.1	38.7	98.7

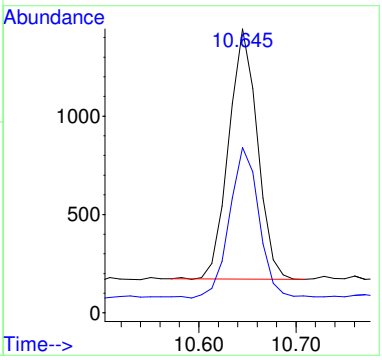


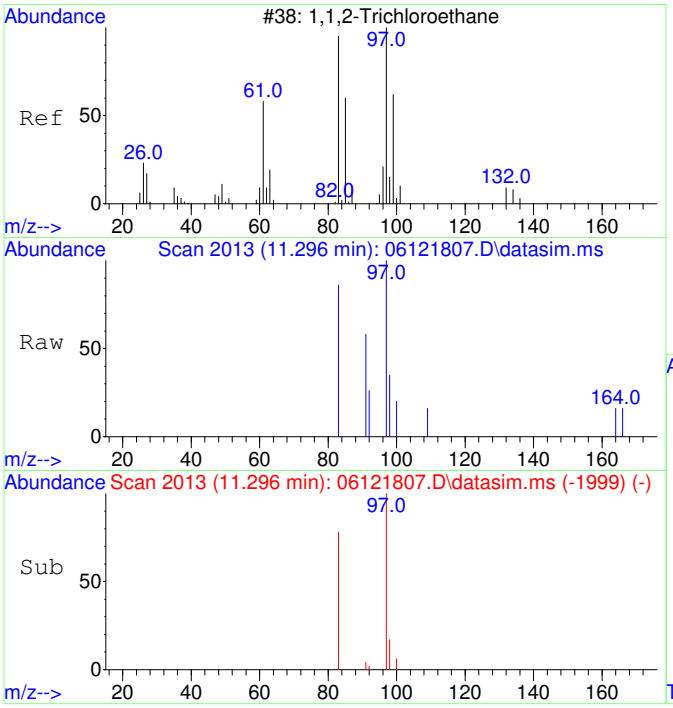


#13
Toluene
Concen: 157.91 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2599

Ion	Ratio	Lower	Upper
91	100		
92	61.4	30.0	90.0

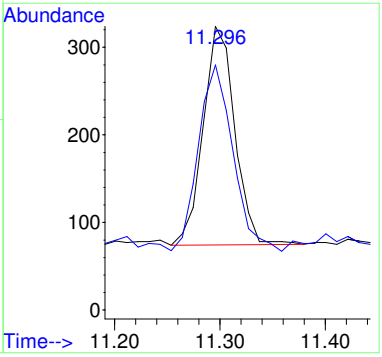


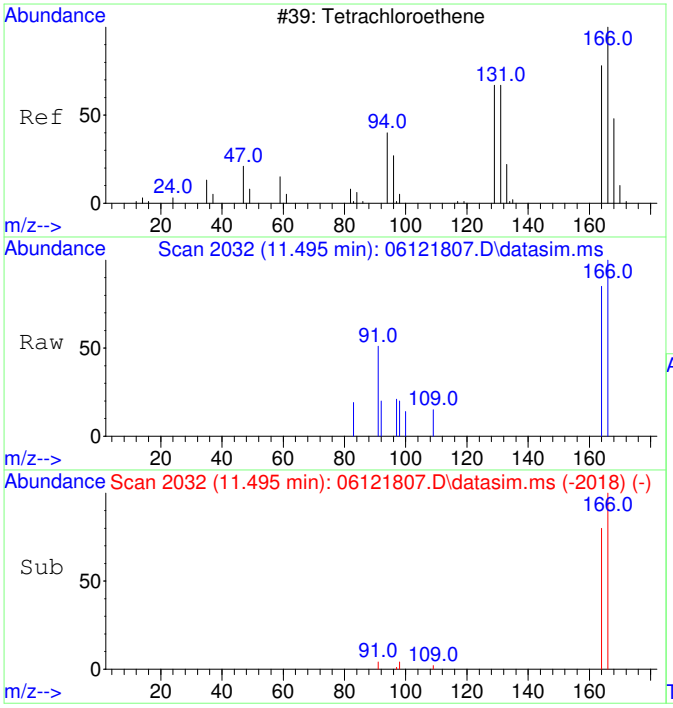


#14
1,1,2-Trichloroethane
Concen: 153.15 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 97 Resp: 521

Ion	Ratio	Lower	Upper
97	100		
83	92.7	53.4	113.4

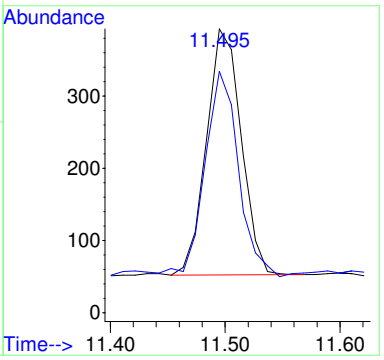


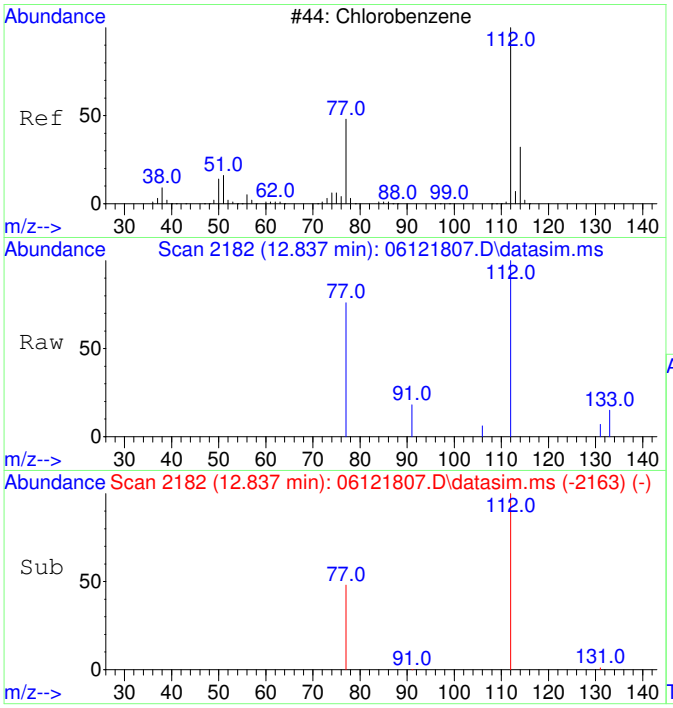


#15
Tetrachloroethene
Concen: 154.41 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:166 Resp: 716

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

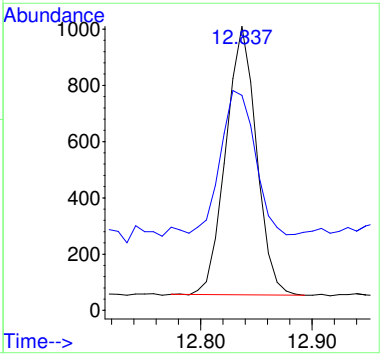


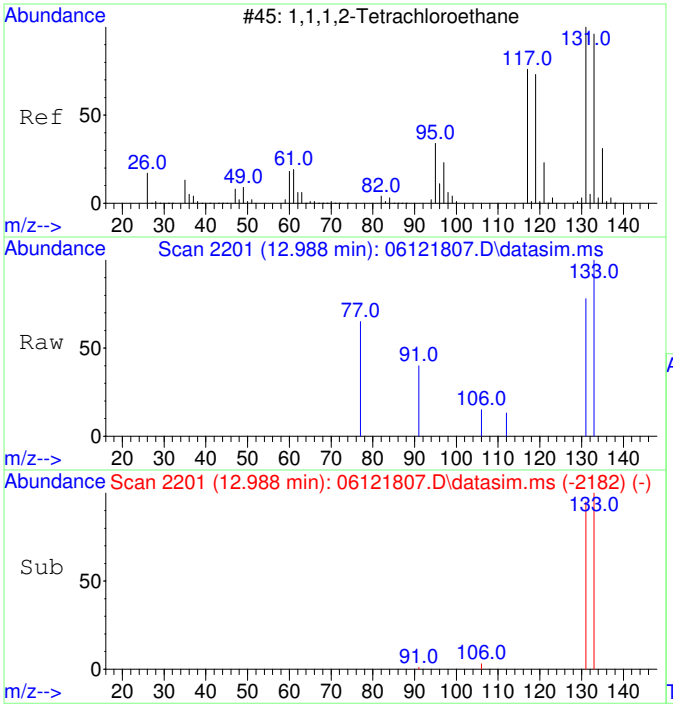


#16
Chlorobenzene
Concen: 155.19 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:112 Resp: 1823

Ion	Ratio	Lower	Upper
112	100		
77	66.6	28.1	88.1

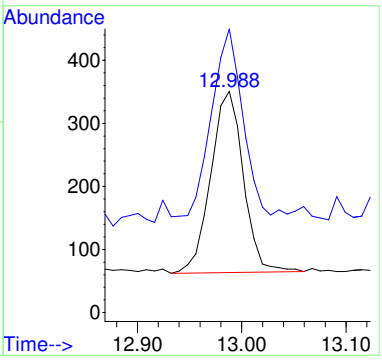


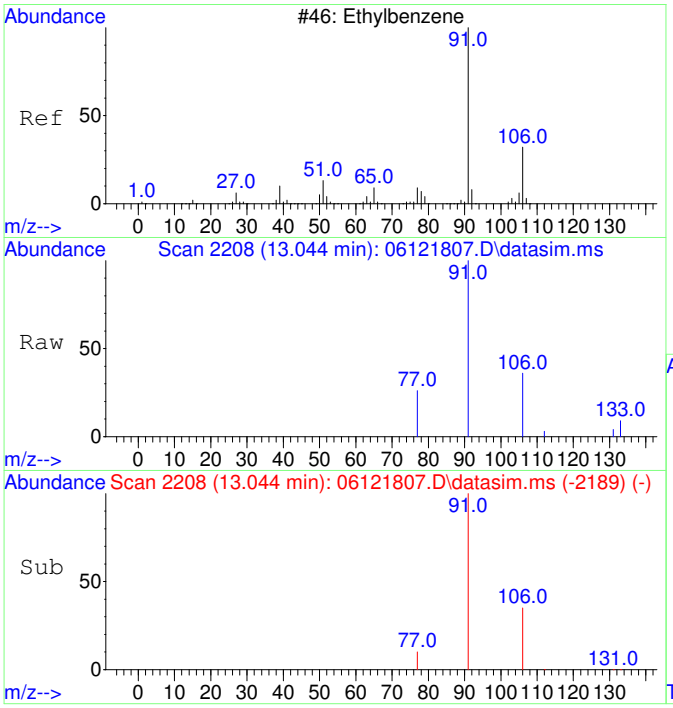


#17
1,1,1,2-Tetrachloroethane
Concen: 156.28 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:131 Resp: 623

Ion	Ratio	Lower	Upper
131	100		
133	106.6	66.2	126.2

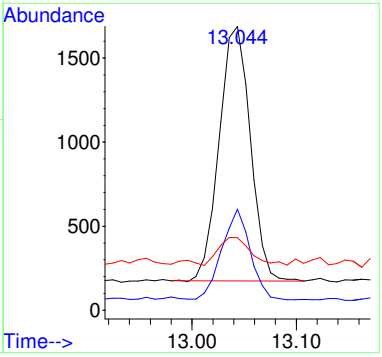


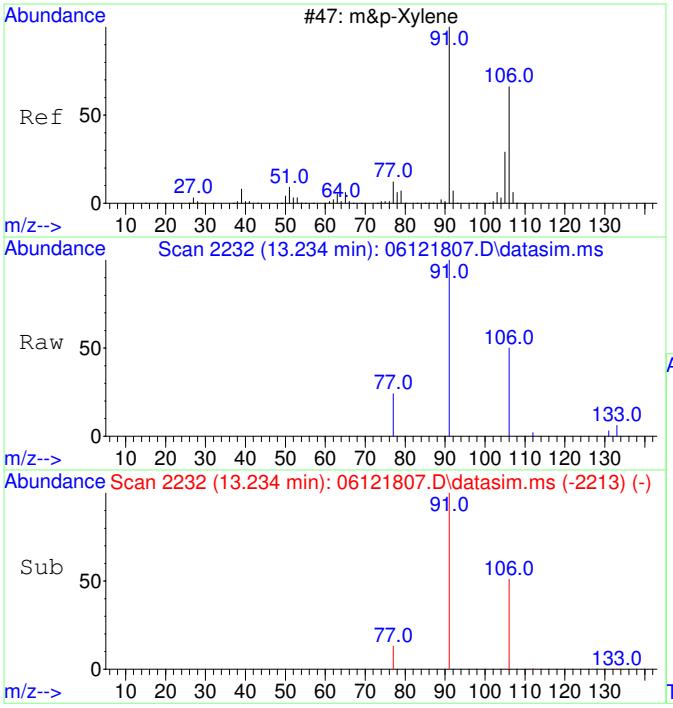


#18
Ethylbenzene
Concen: 158.83 ug/L
RT: 13.044 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

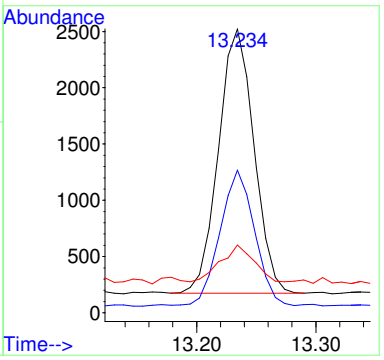


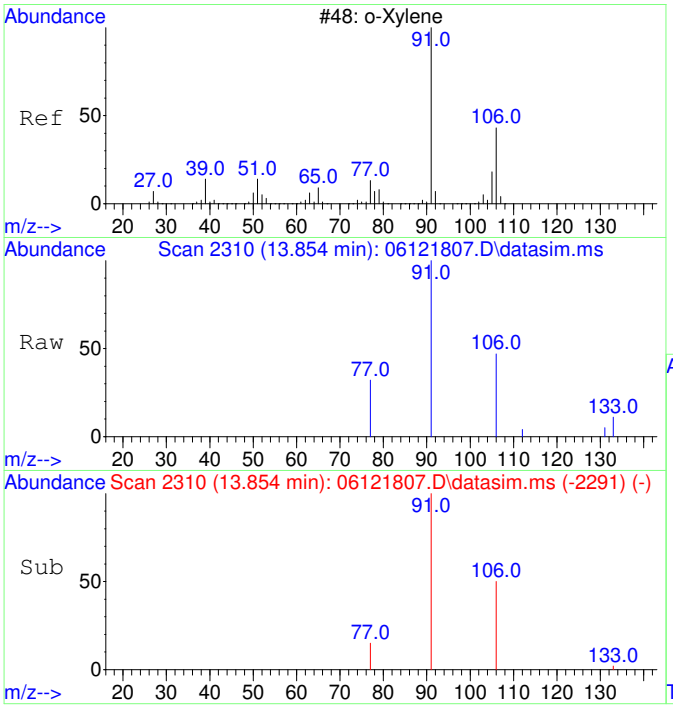


#19
m&p-Xylene
Concen: 320.39 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

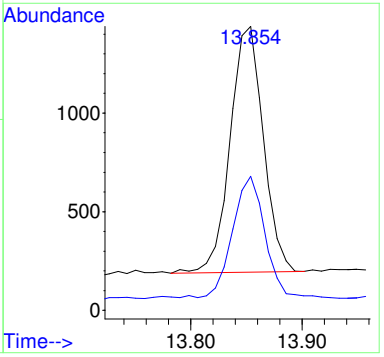


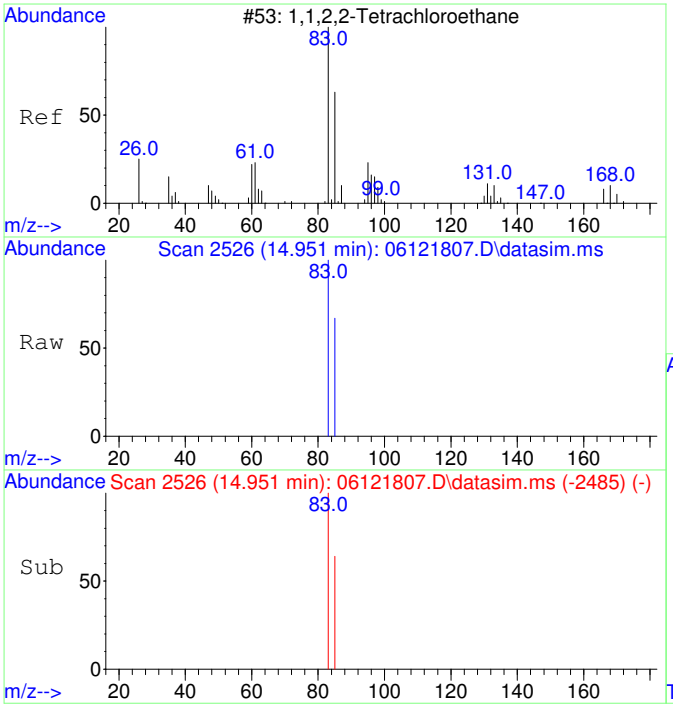


#20
o-Xylene
Concen: 159.68 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2578

Ion	Ratio	Lower	Upper
91	100		
106	48.3	18.3	78.3

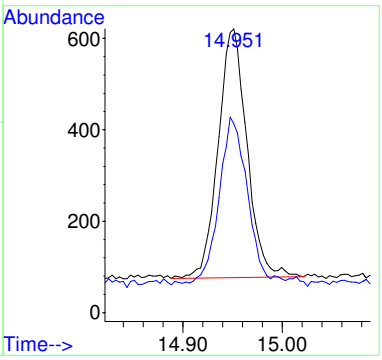


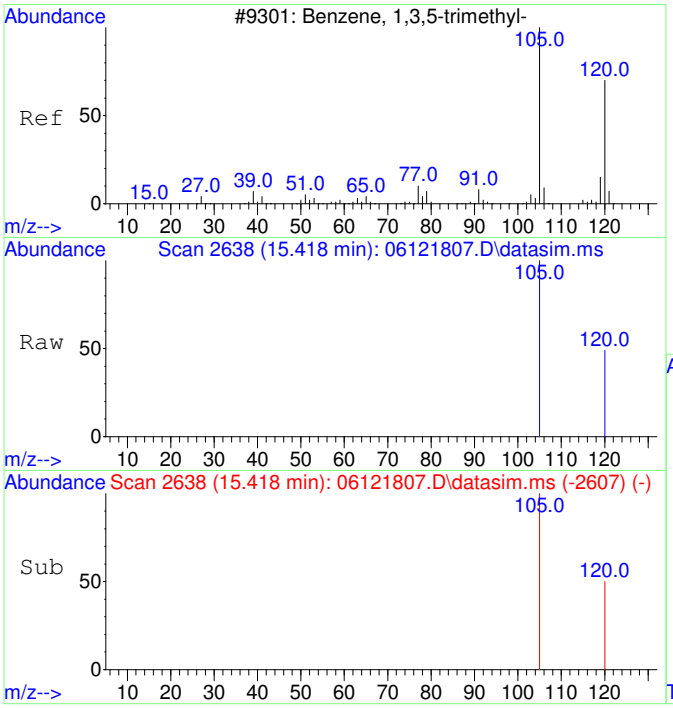


#21
1,1,2,2-Tetrachloroethane
Concen: 157.77 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 1097

Ion	Ratio	Lower	Upper
83	100		
85	66.5	34.4	94.4

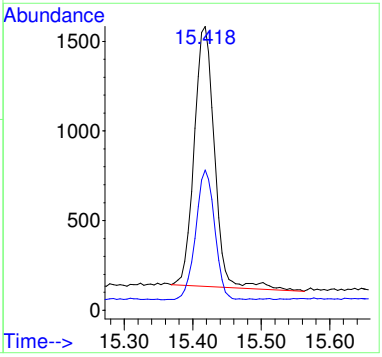


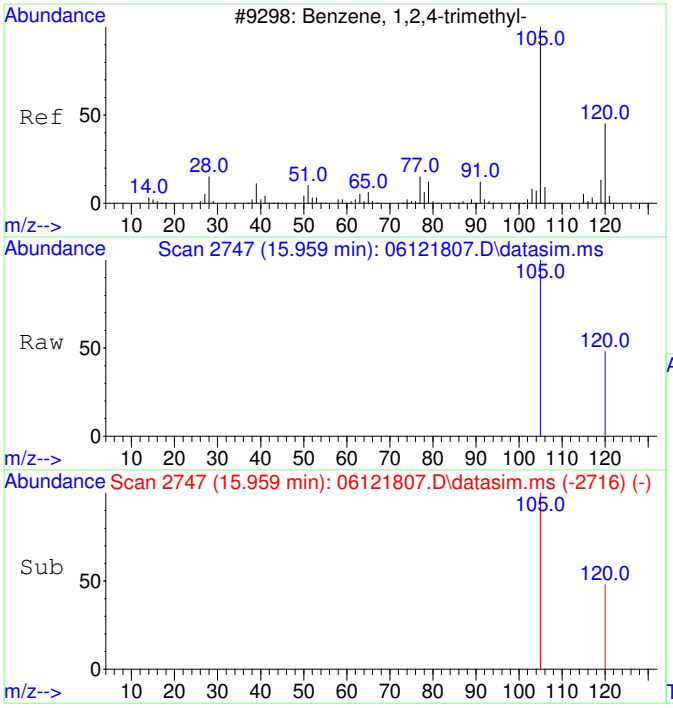


#22
1,3,5-Trimethylbenzene
Concen: 163.79 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 2992

Ion	Ratio	Lower	Upper
105	100		
120	46.5	19.1	79.1

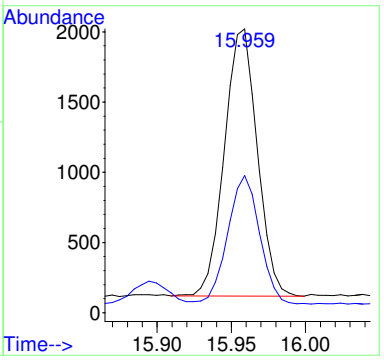


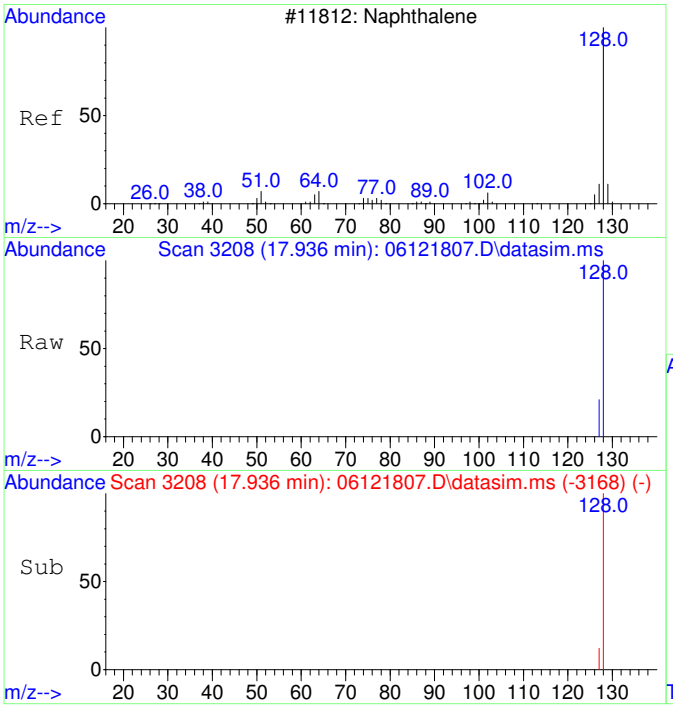


#23
1,2,4-Trimethylbenzene
Concen: 161.01 ug/L
RT: 15.959 min Scan# 2747
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 2942

Ion	Ratio	Lower	Upper
105	100		
120	45.2	15.5	75.5

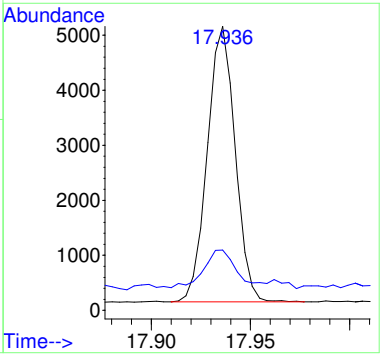


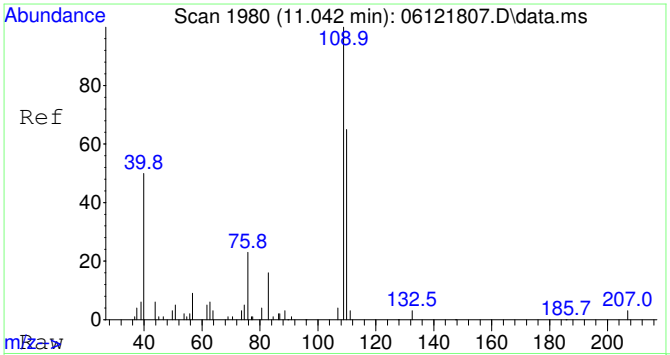


#24
Naphthalene
Concen: 163.10 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:128 Resp: 4891

Ion	Ratio	Lower	Upper
128	100		
127	18.1	0.0	42.5

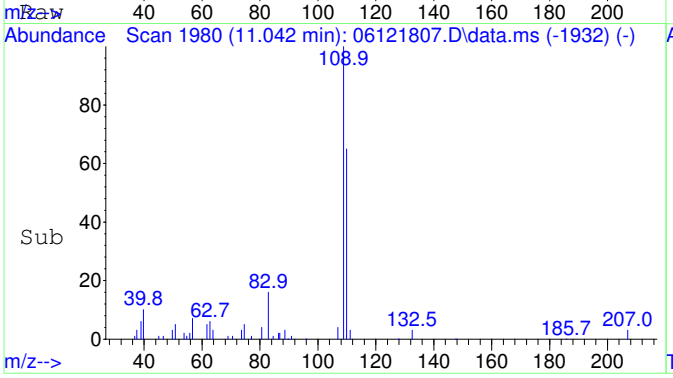


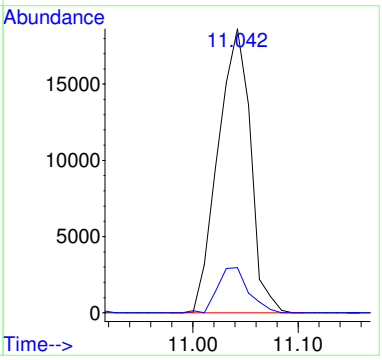


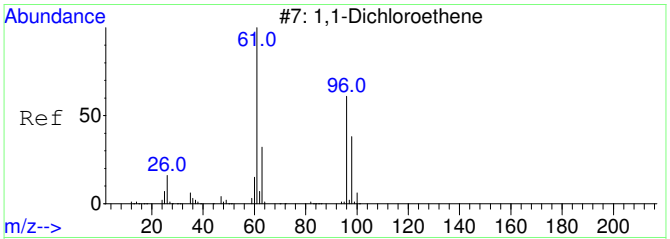
#25
2-Fluorotoluene SCAN
Concen: 4541.08 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:109 Resp: 39990

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	45.7



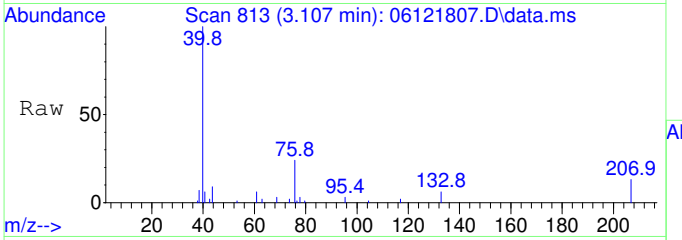


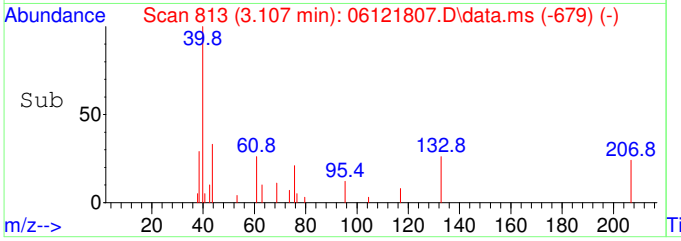


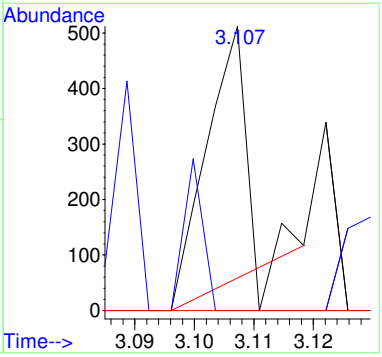
#26
1,1-Dichloroethene SCAN
Concen: 100.57 ug/L
RT: 3.107 min Scan# 813
Delta R.T. -0.003 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

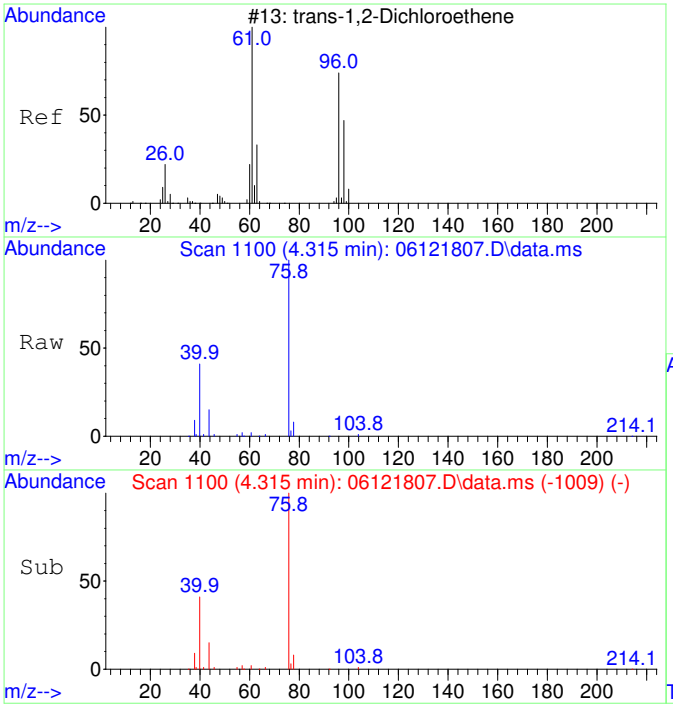
Tgt Ion: 61 Resp: 221

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





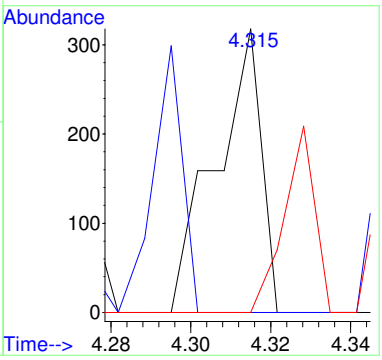


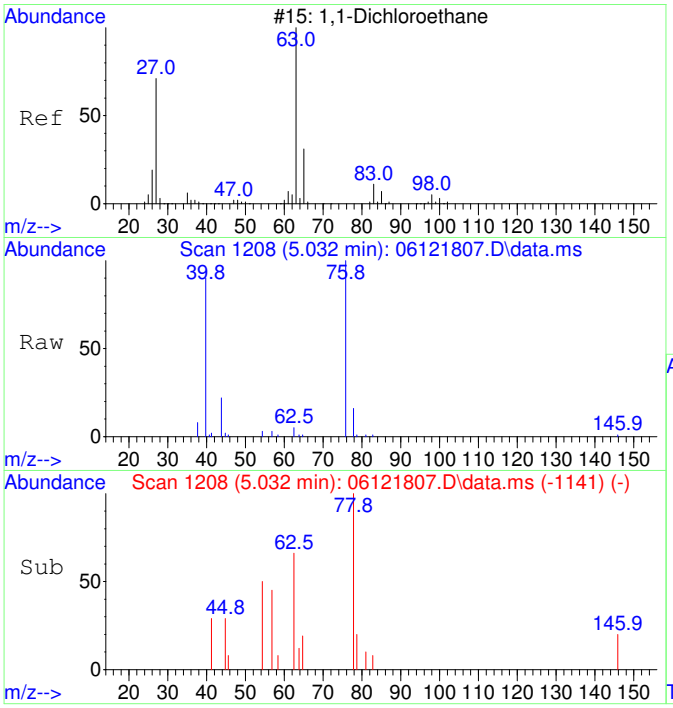


#27
trans-1,2-Dichloroethene SCAN
Concen: 98.89 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. -0.020 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

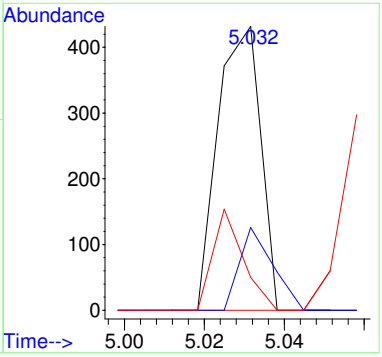


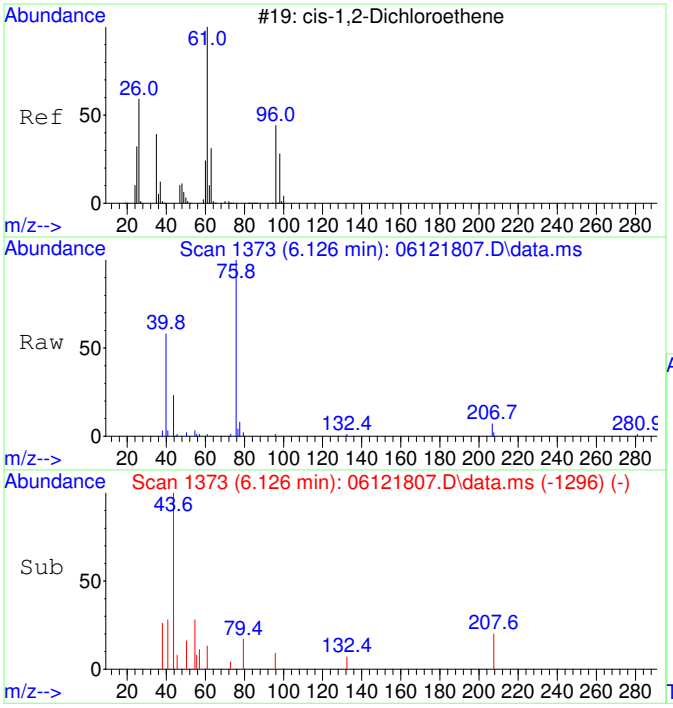


#28
1,1-Dichloroethane SCAN
Concen: 98.32 ug/L
RT: 5.032 min Scan# 1208
Delta R.T. -0.053 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

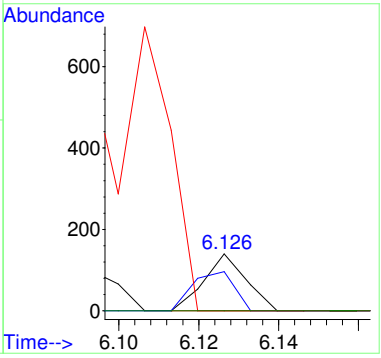


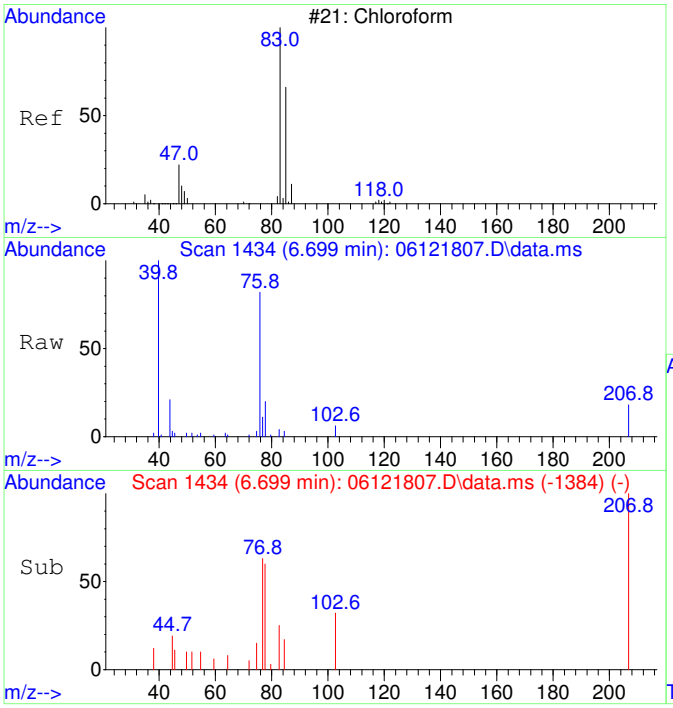


#29
cis-1,2-Dichloroethene SCAN
Concen: 36.24 ug/L
RT: 6.126 min Scan# 1373
Delta R.T. 0.013 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

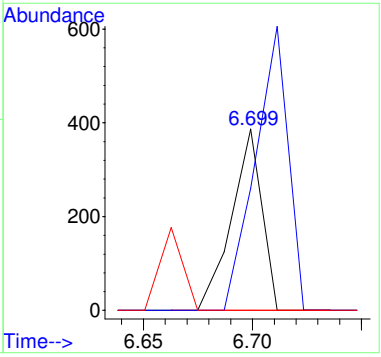


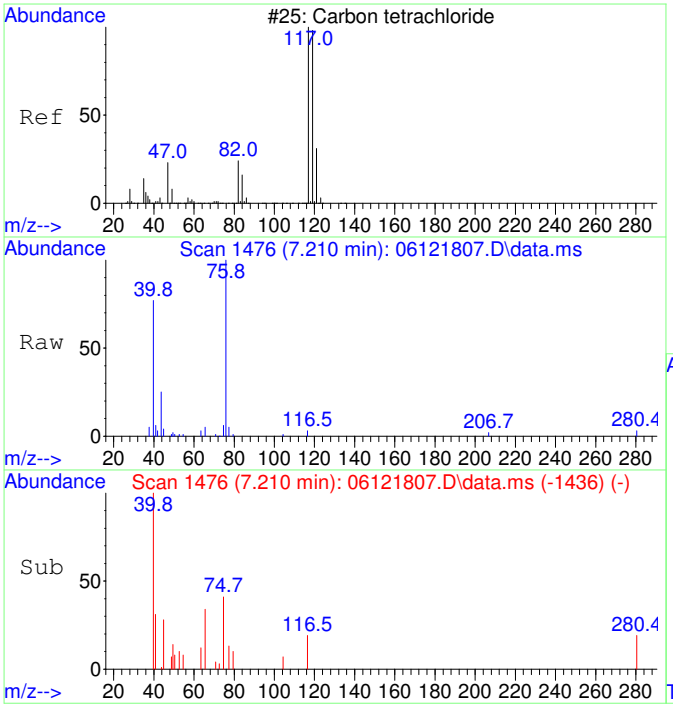


#30
Chloroform SCAN
Concen: 108.25 ug/L
RT: 6.699 min Scan# 1434
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

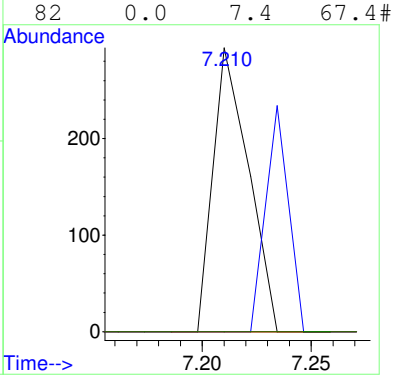


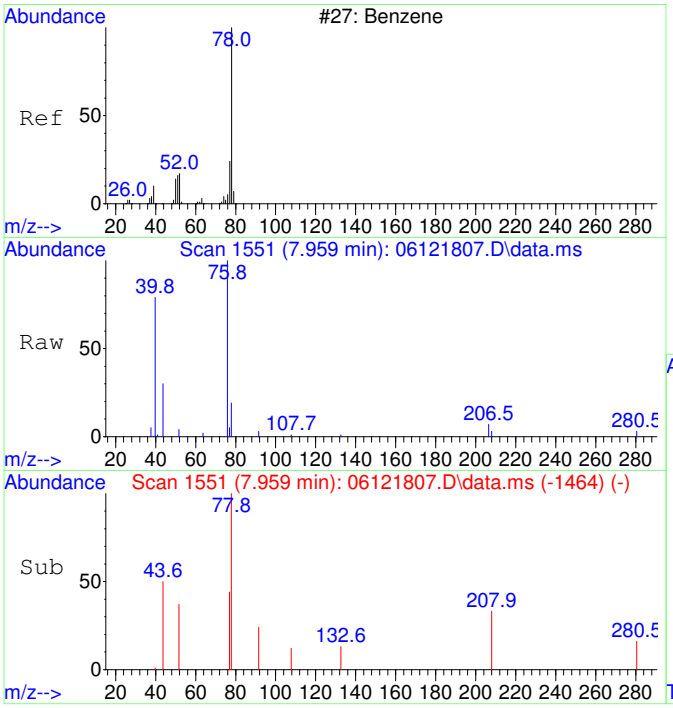


#32
Carbon tetrachloride SCAN
Concen: 109.56 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

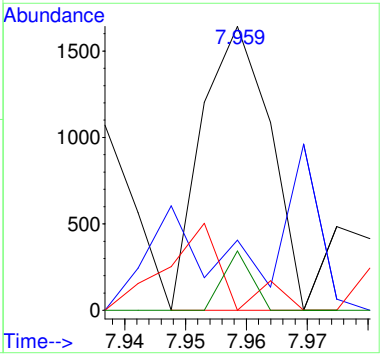


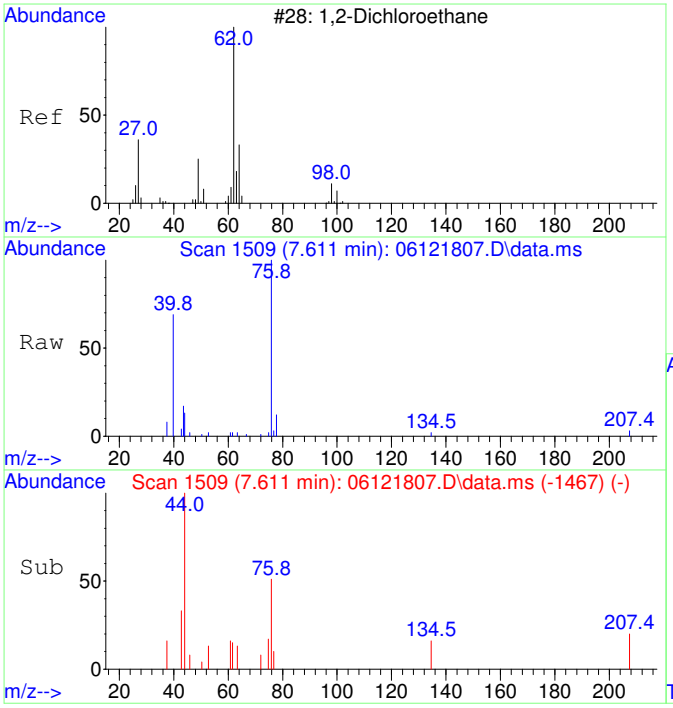


#33
Benzene SCAN
Concen: 140.11 ug/L
RT: 7.959 min Scan# 1551
Delta R.T. 0.396 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

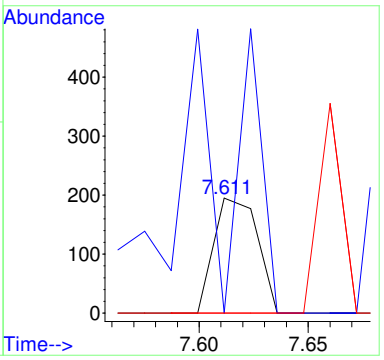


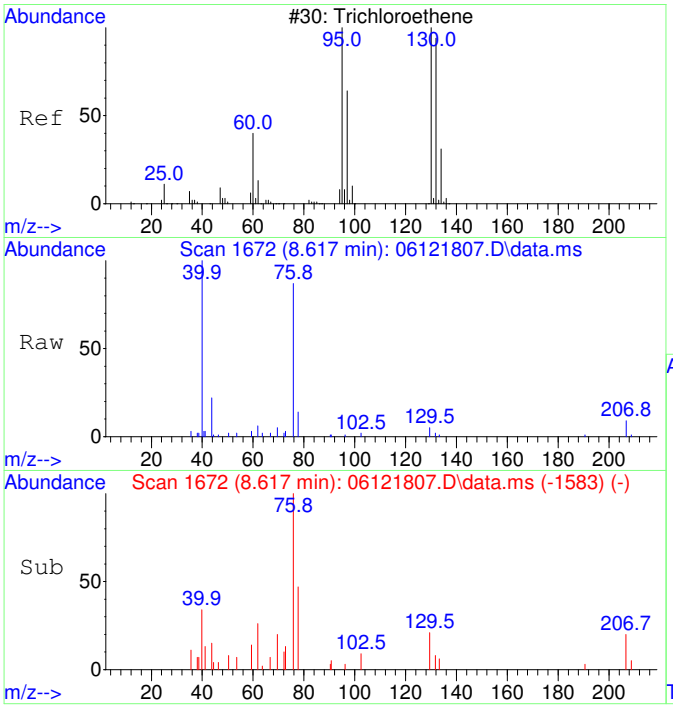


#34
1,2-Dichloroethane SCAN
Concen: 86.64 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

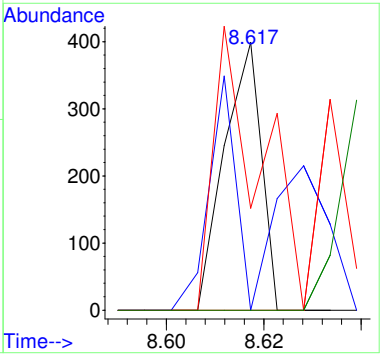


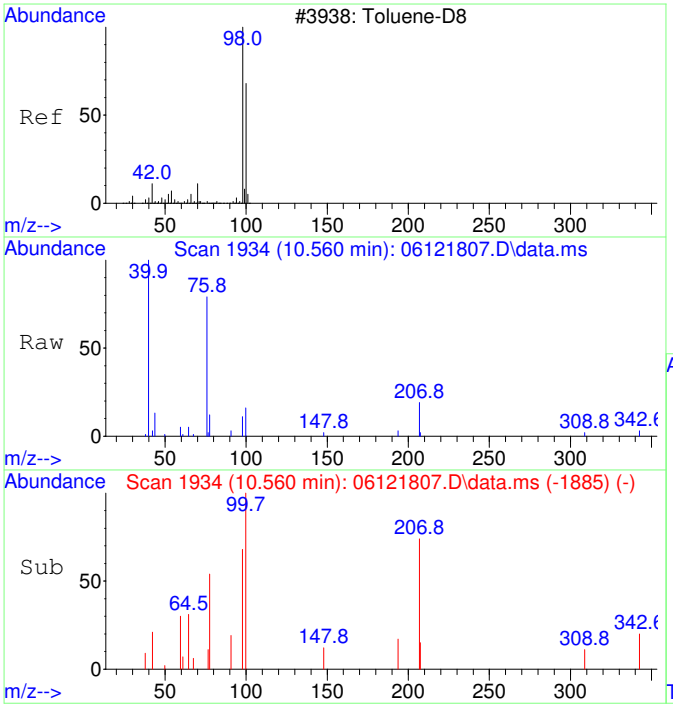


#35
Trichloroethene SCAN
Concen: 93.57 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. -0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

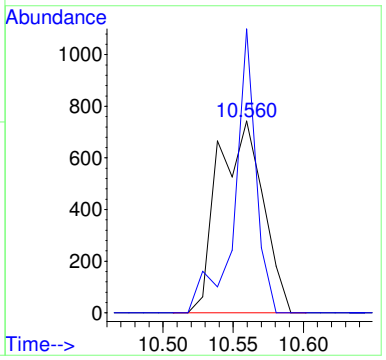


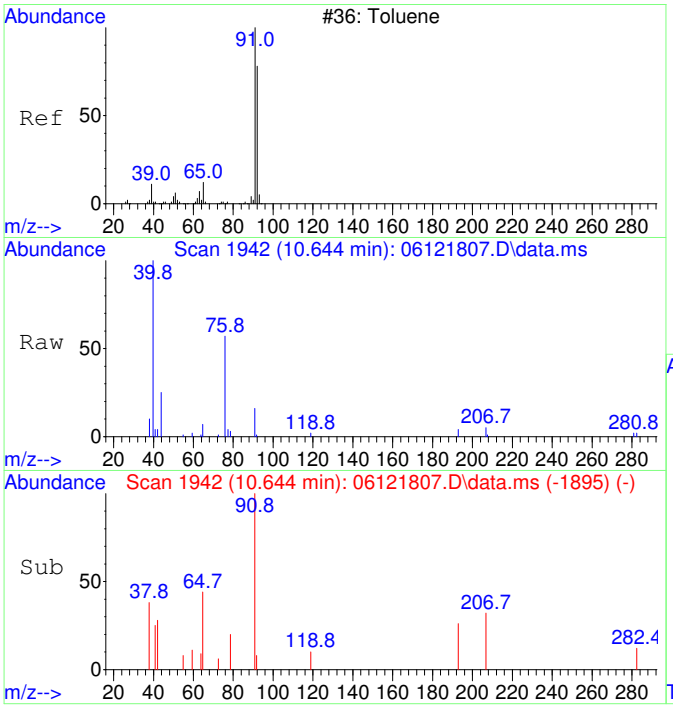


#36
Toluene-d8 SCAN
Concen: 209.90 ug/L
RT: 10.560 min Scan# 1934
Delta R.T. 0.011 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 98 Resp: 1671

Ion	Ratio	Lower	Upper
98	100		
100	70.0	39.5	99.5

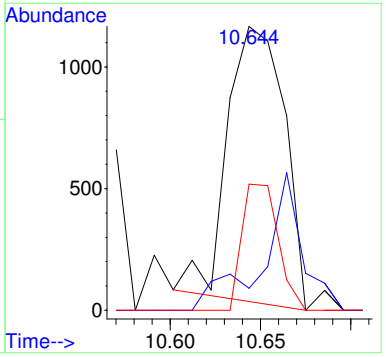


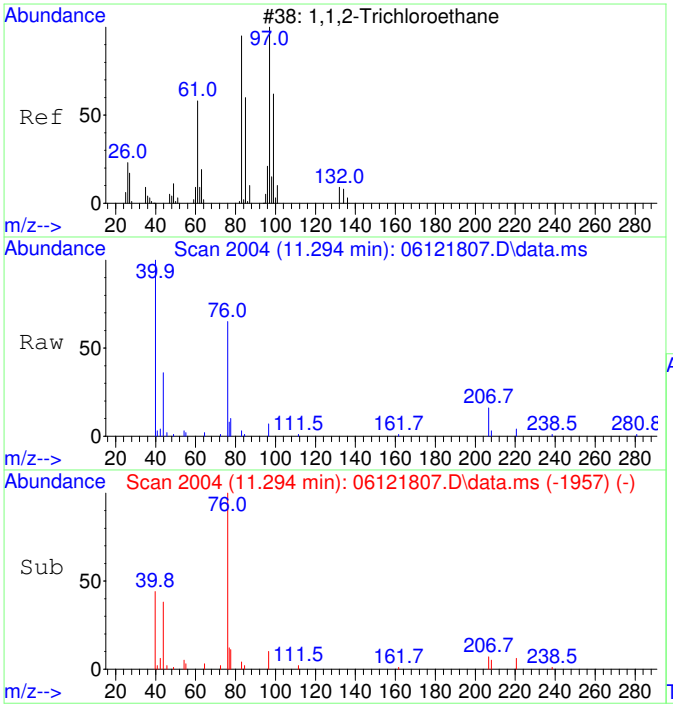


#37
Toluene SCAN
Concen: 243.87 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. -0.010 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

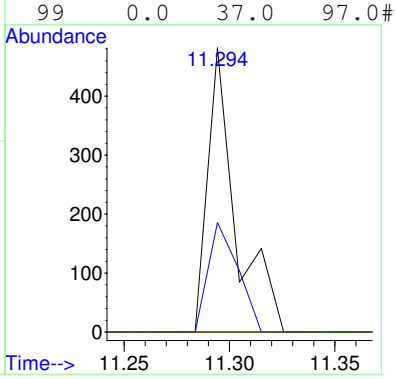


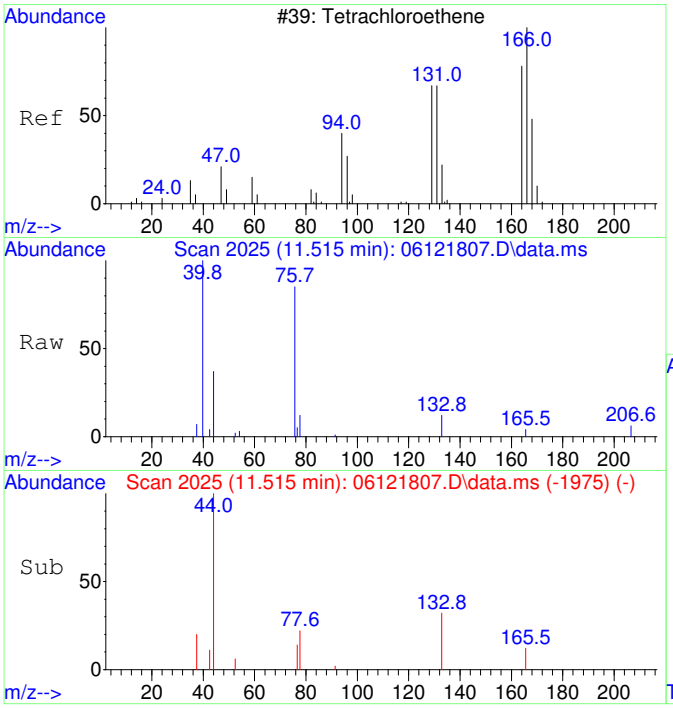


#38
1,1,2-Trichloroethane SCAN
Concen: 228.88 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

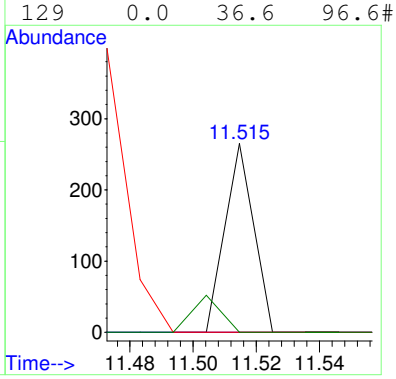


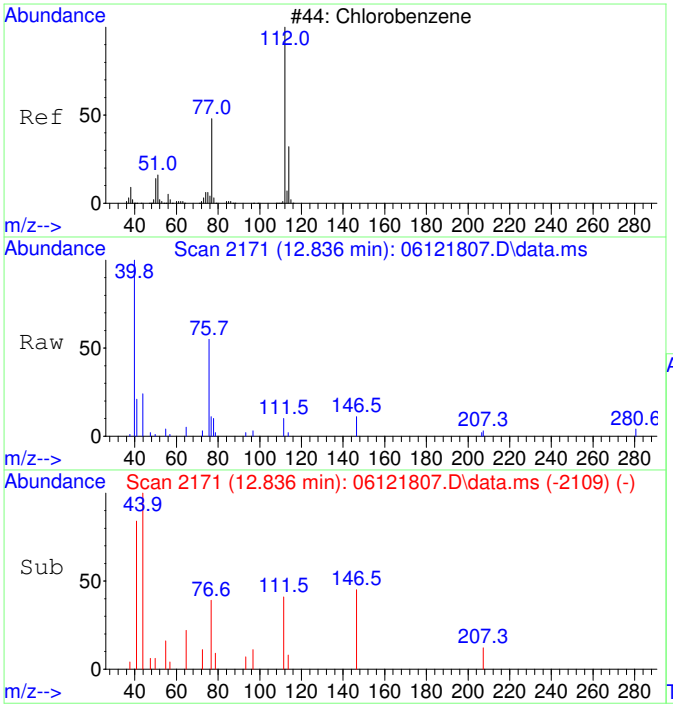


#39
Tetrachloroethene SCAN
Concen: 74.84 ug/L
RT: 11.515 min Scan# 2025
Delta R.T. 0.021 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

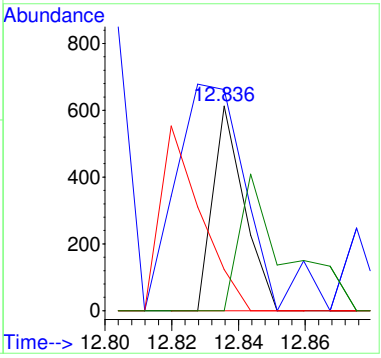


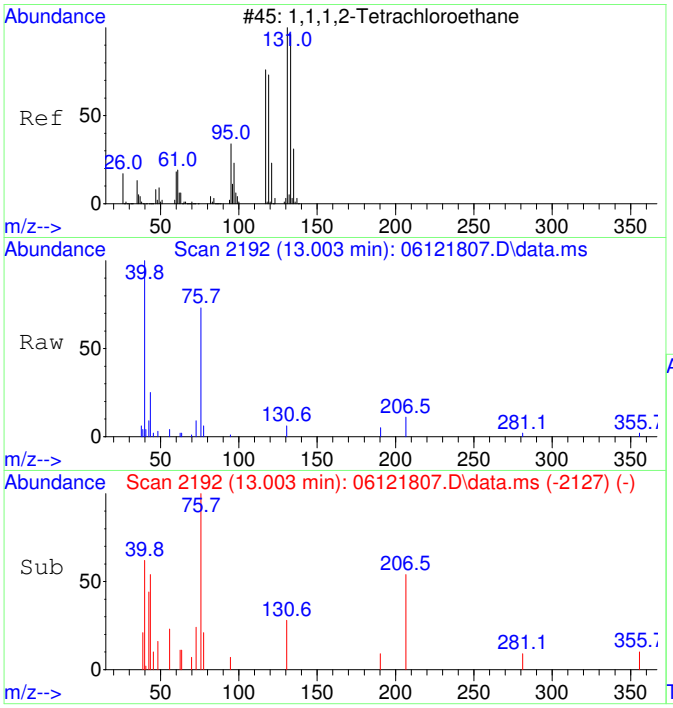


#40
Chlorobenzene SCAN
Concen: 64.84 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

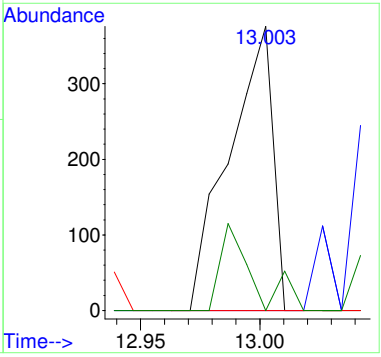


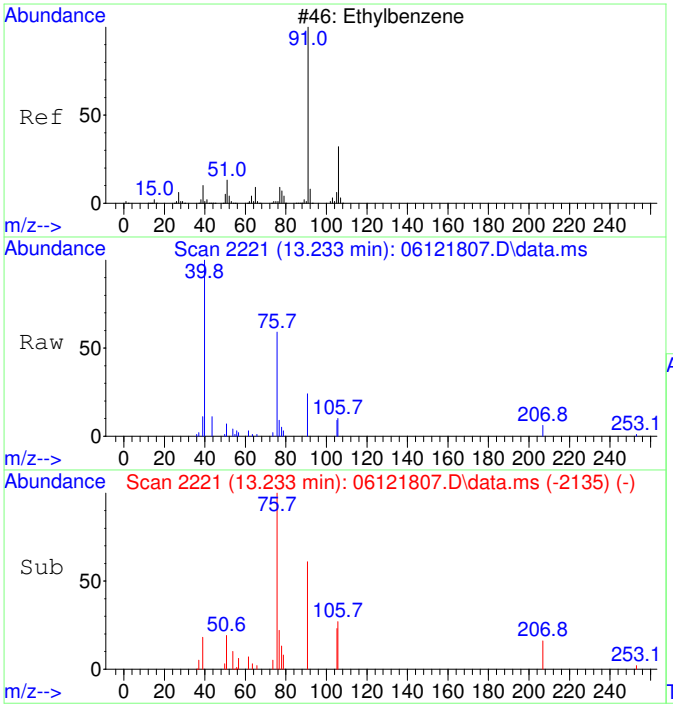


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 218.90 ug/L
RT: 13.003 min Scan# 2192
Delta R.T. 0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

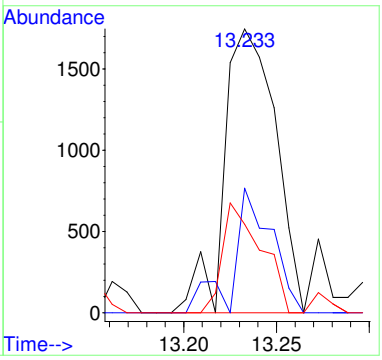


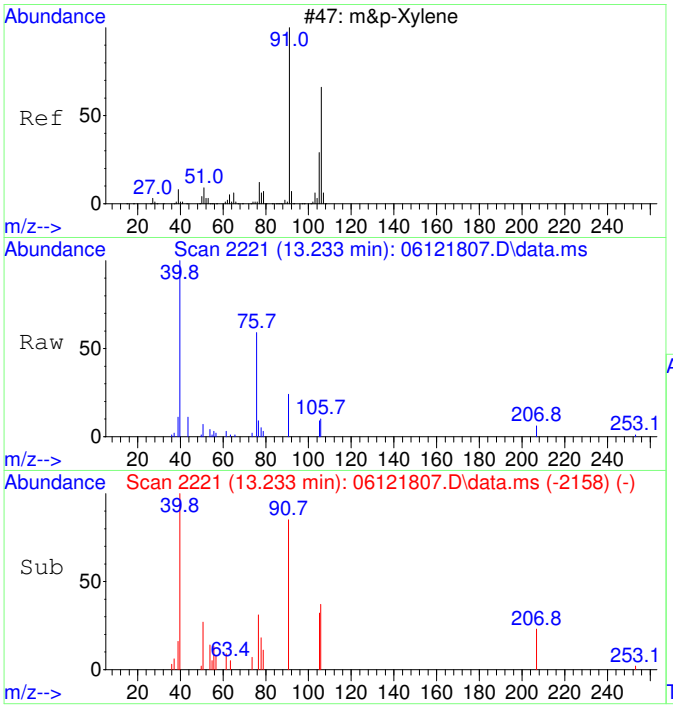


#42
Ethylbenzene SCAN
Concen: 286.28 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.183 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

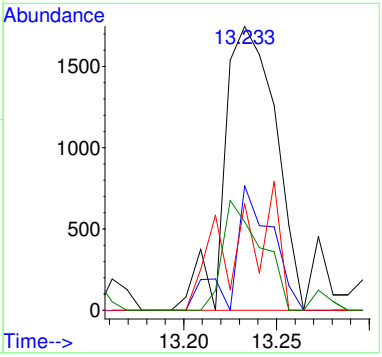


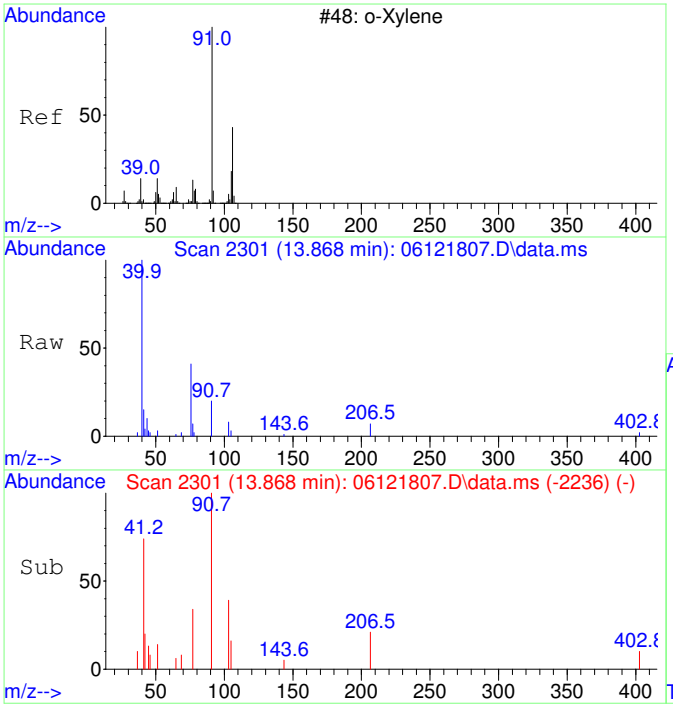


#43
m&p-Xylene SCAN
Concen: 206.25 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

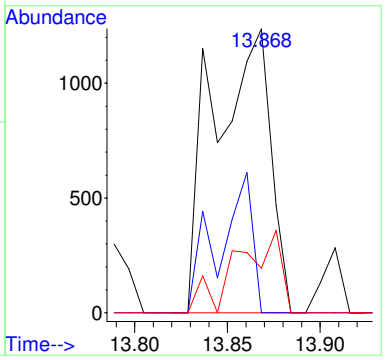


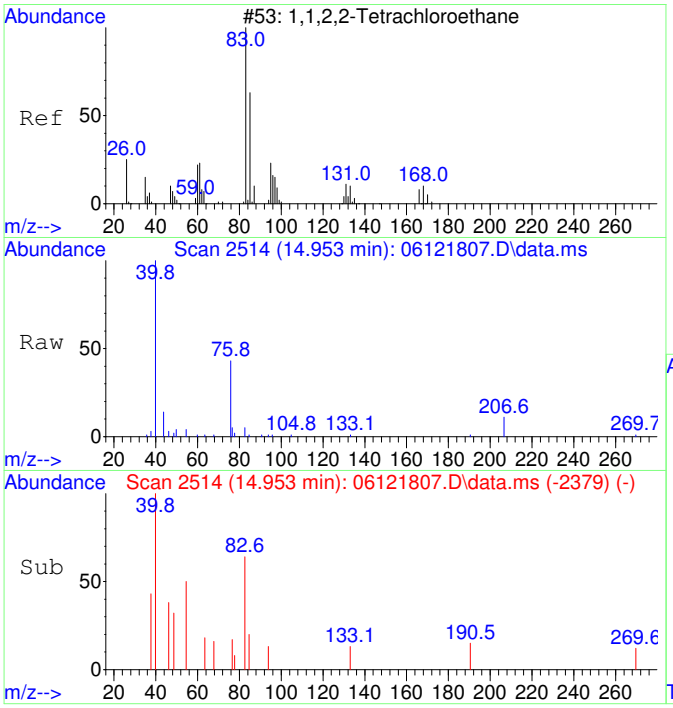


#44
o-Xylene SCAN
Concen: 282.06 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

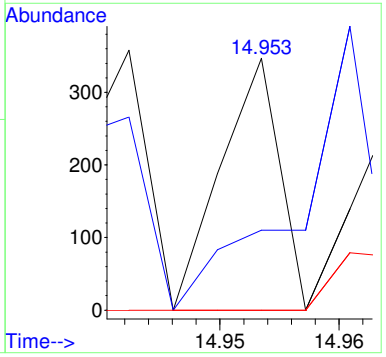


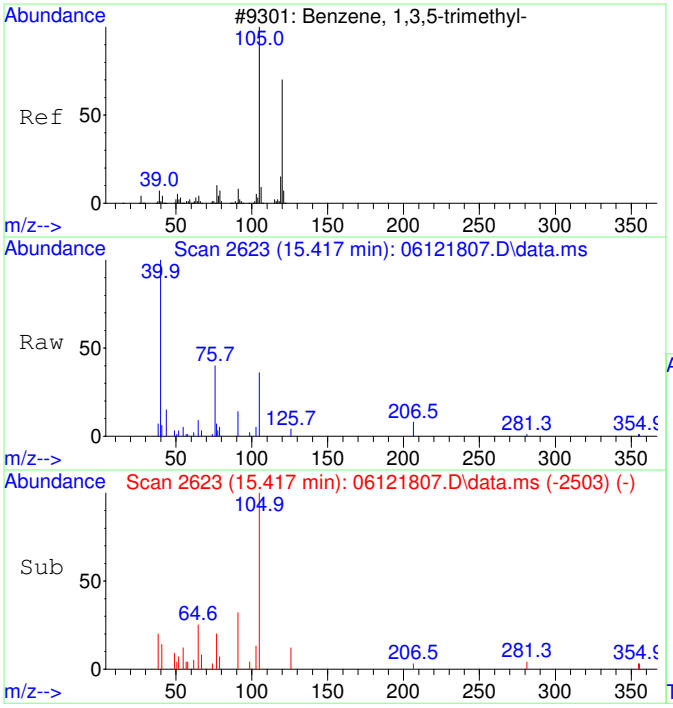


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 26.89 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

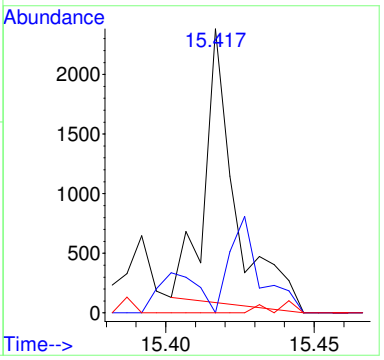


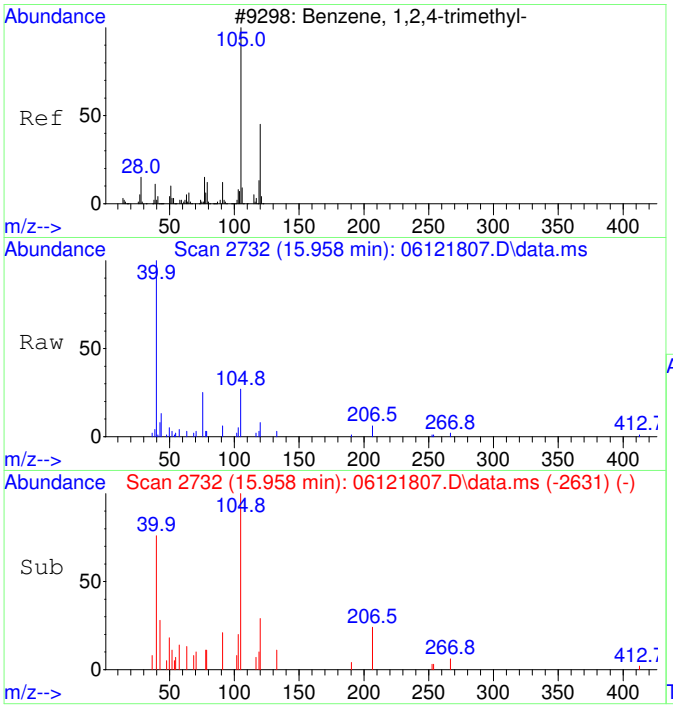


#46
1,3,5-Trimethylbenzene SCAN
Concen: 178.20 ug/L
RT: 15.417 min Scan# 2623
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

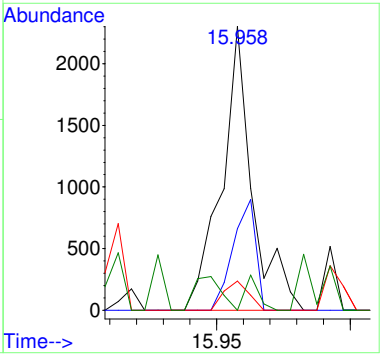


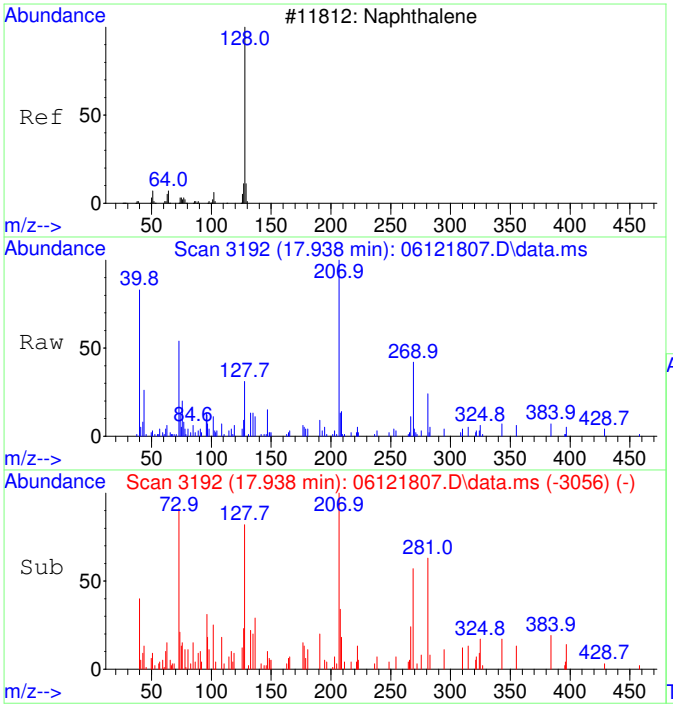


#47
1,2,4-Trimethylbenzene SCAN
Concen: 194.32 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

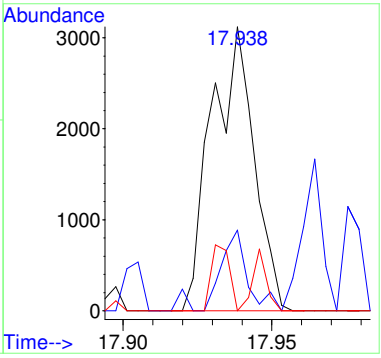




#48
Naphthalene SCAN
Concen: 229.85 ug/L
RT: 17.938 min Scan# 3192
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

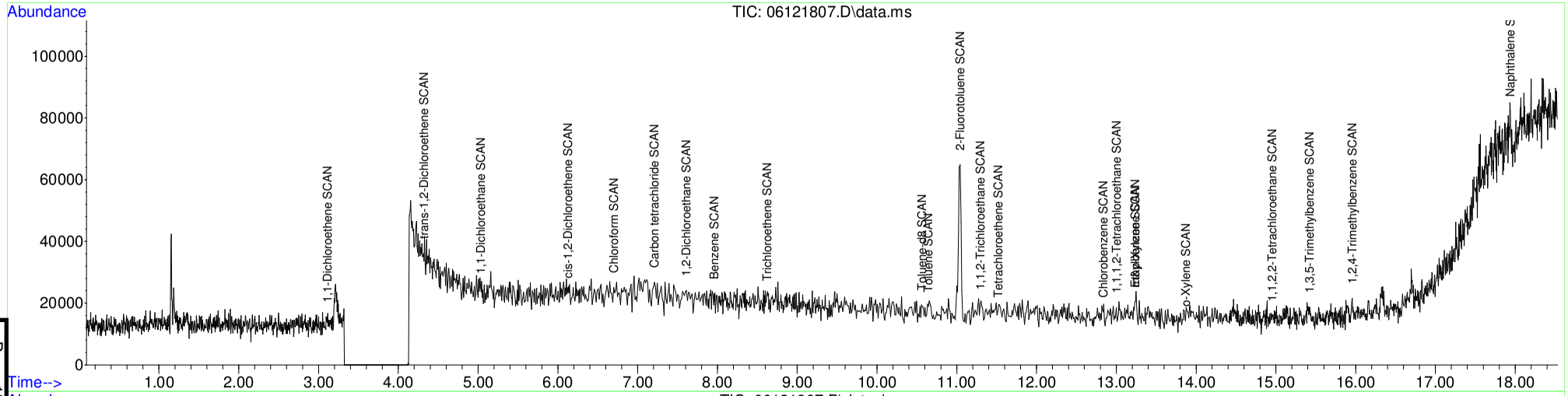
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	75573	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	1881	153.23	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 3.06%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	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

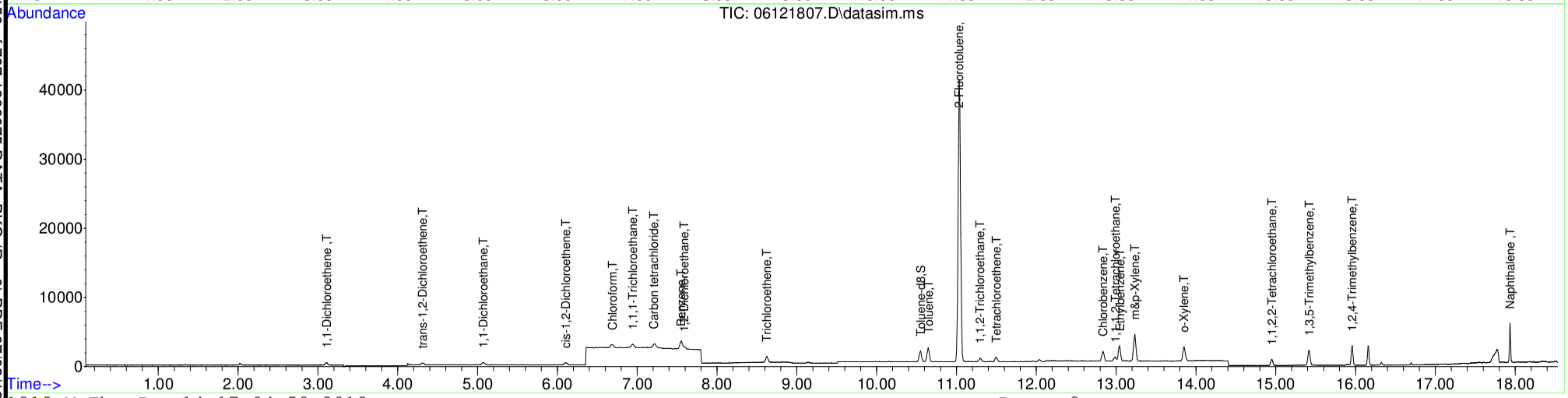
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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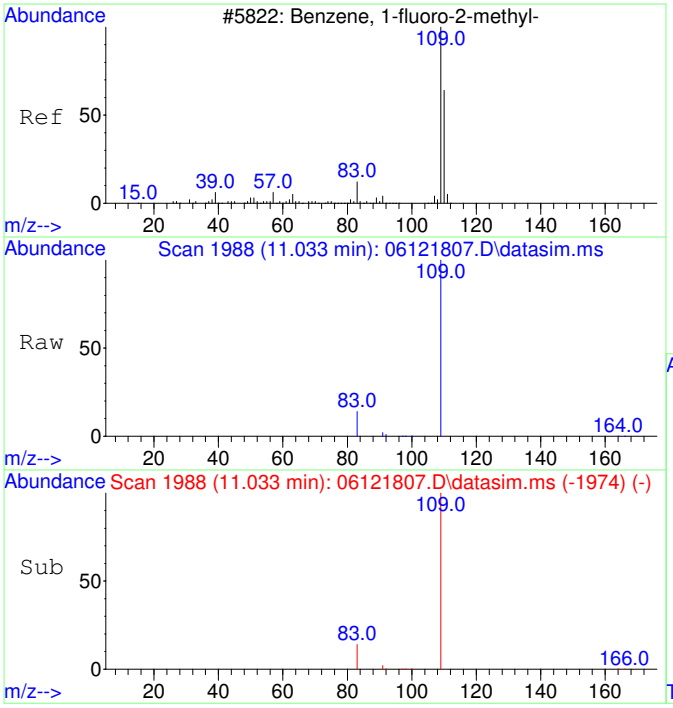
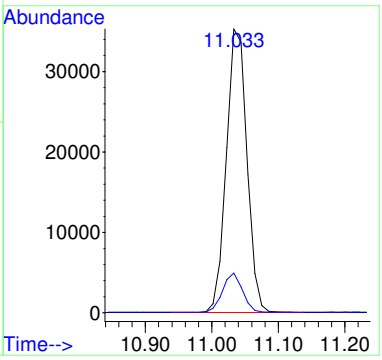
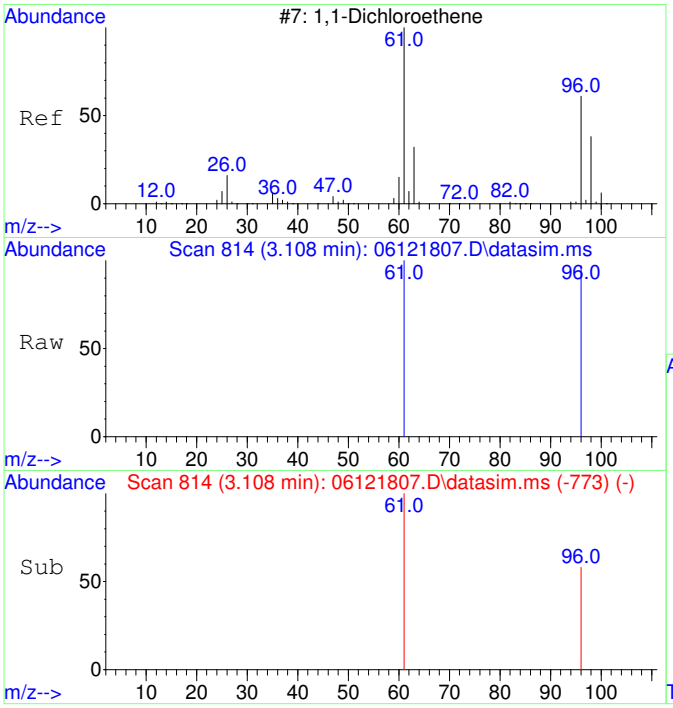


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:109 Resp: 75573

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	44.7

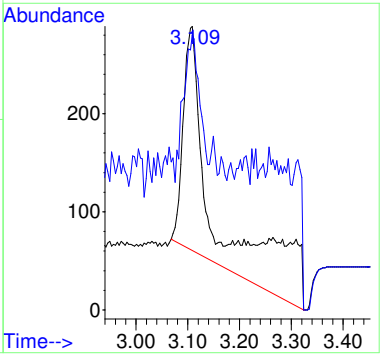




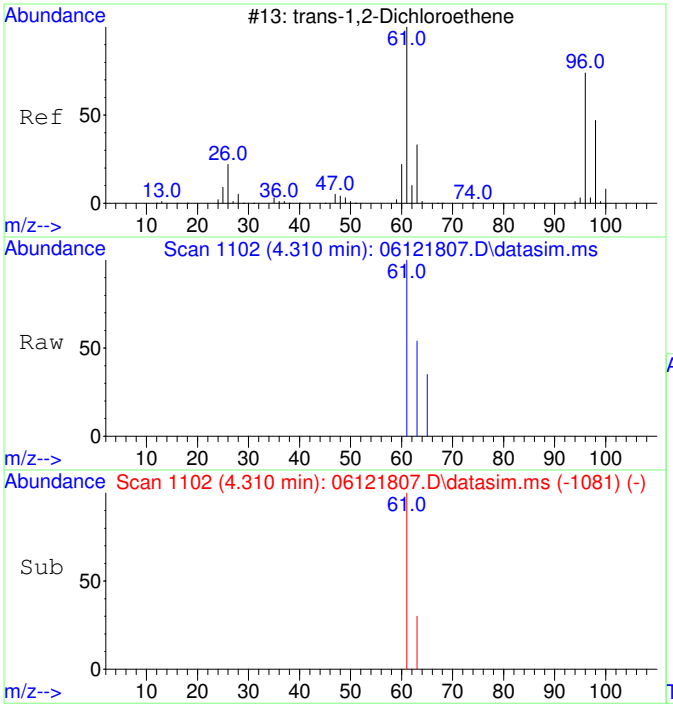
#2
1,1-Dichloroethene
Concen: 291.04 ug/L
RT: 3.108 min Scan# 814
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 941

Ion	Ratio	Lower	Upper
61	100		
96	34.4	28.7	88.7



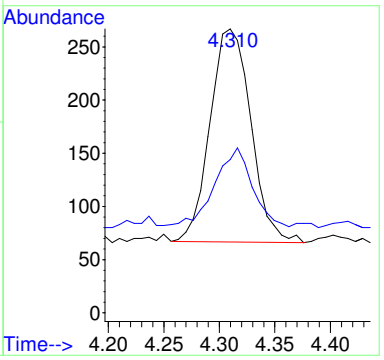
Before MI:
IMPROPER
BASELINE

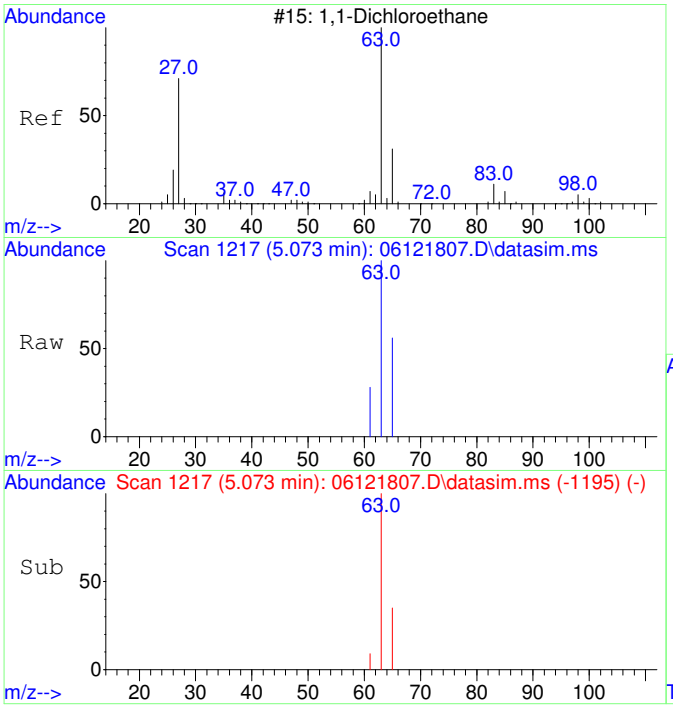


#3
trans-1,2-Dichloroethene
Concen: 152.10 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 514

Ion	Ratio	Lower	Upper
61	100		
63	35.2	2.0	62.0

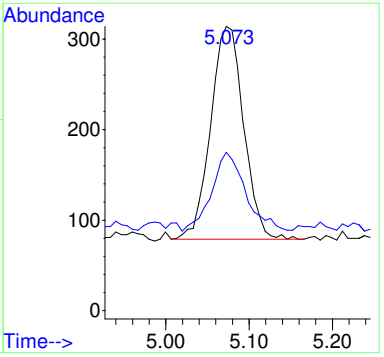


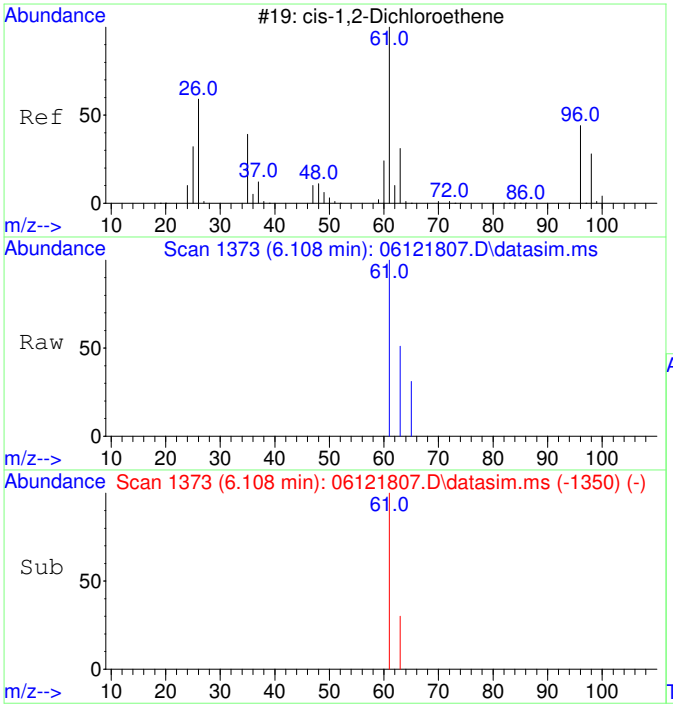


#4
1,1-Dichloroethane
Concen: 154.06 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 63 Resp: 648

Ion	Ratio	Lower	Upper
63	100		
65	37.8	1.5	61.5

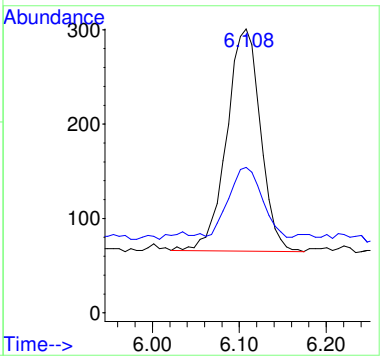


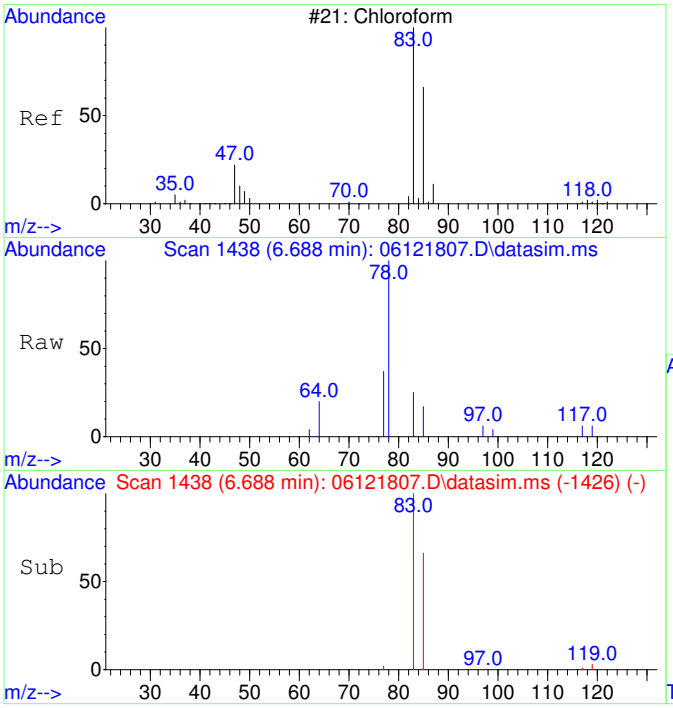


#5
cis-1,2-Dichloroethene
Concen: 153.04 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 61 Resp: 635

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.2	62.2

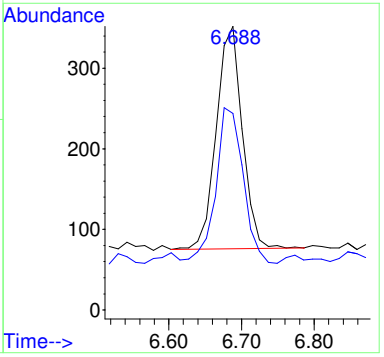


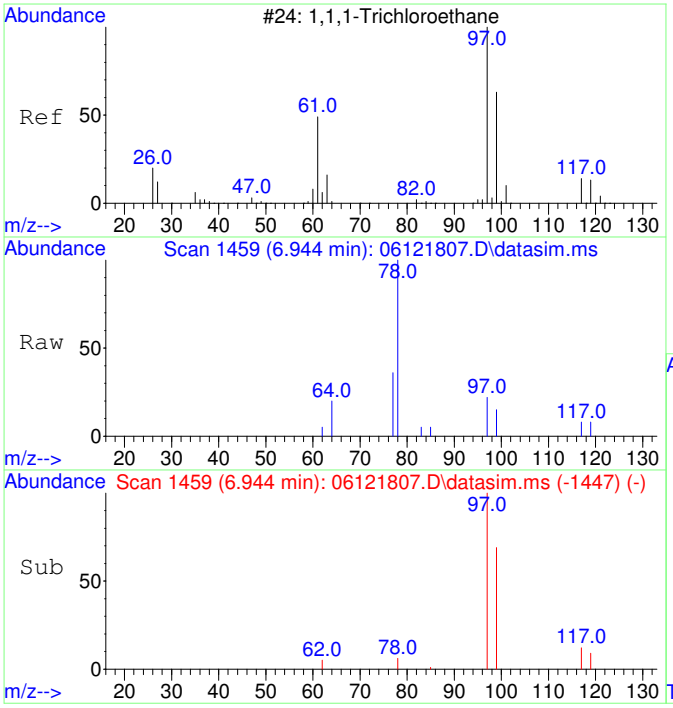


#6
Chloroform
Concen: 153.54 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 686

Ion	Ratio	Lower	Upper
83	100		
85	73.6	34.8	94.8

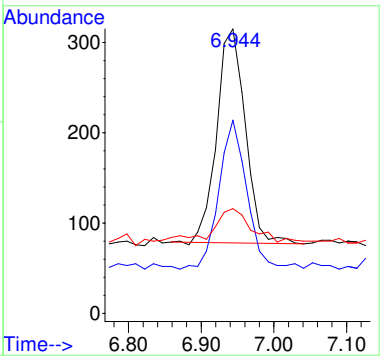


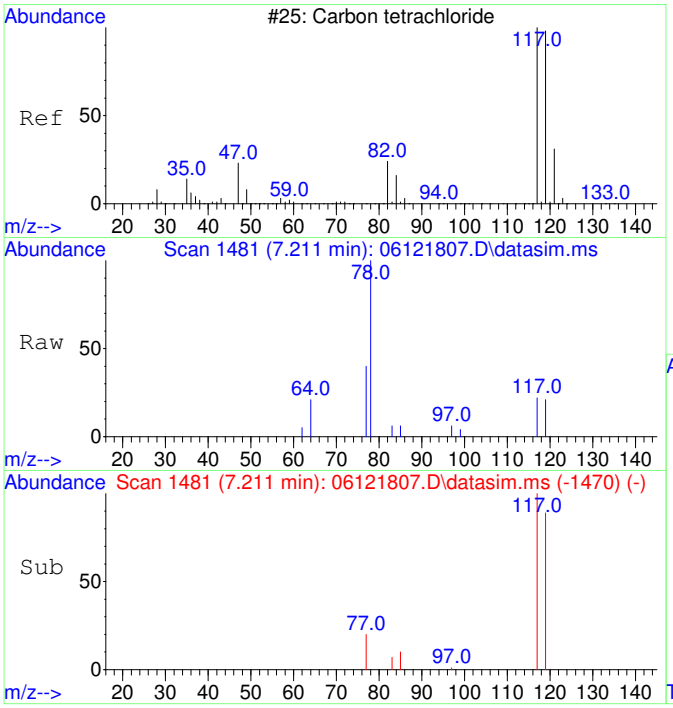


#7
1,1,1-Trichloroethane
Concen: 147.13 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

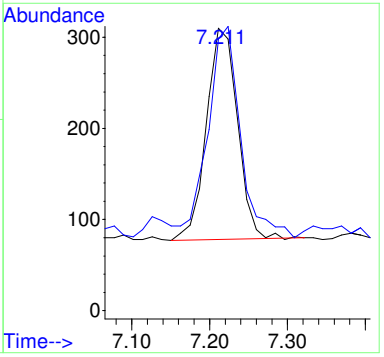


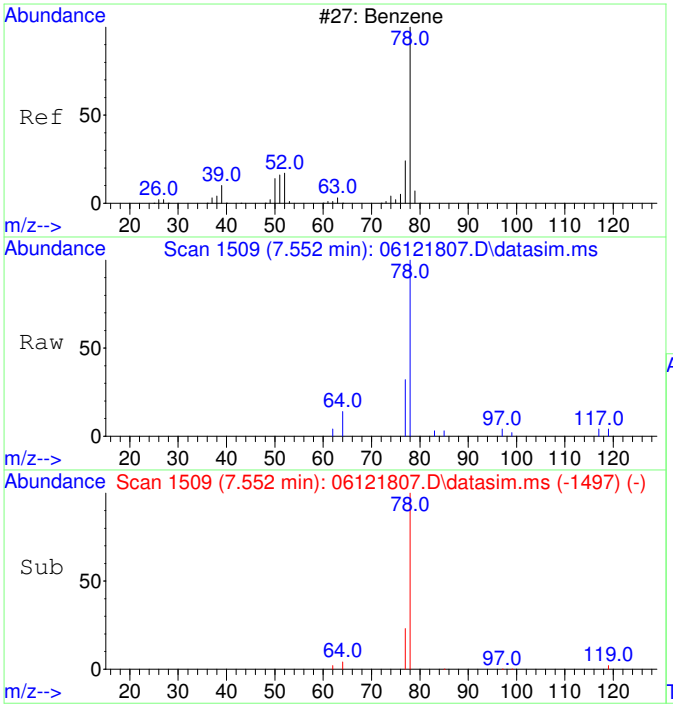


#8
Carbon tetrachloride
Concen: 154.60 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:117 Resp: 644

Ion	Ratio	Lower	Upper
117	100		
119	104.2	65.9	125.9

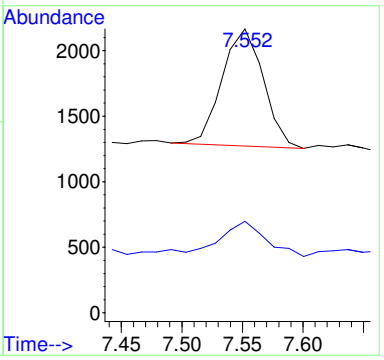


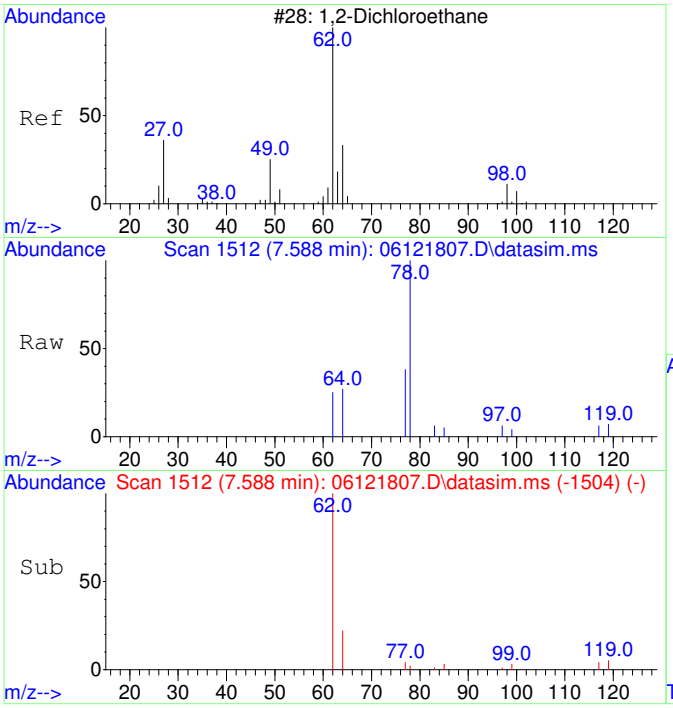


#9
Benzene
Concen: 174.39 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 78 Resp: 2116

Ion	Ratio	Lower	Upper
78	100		
77	37.9	0.0	53.0

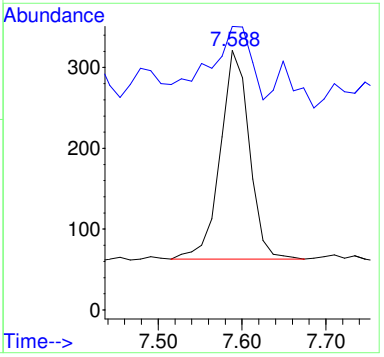


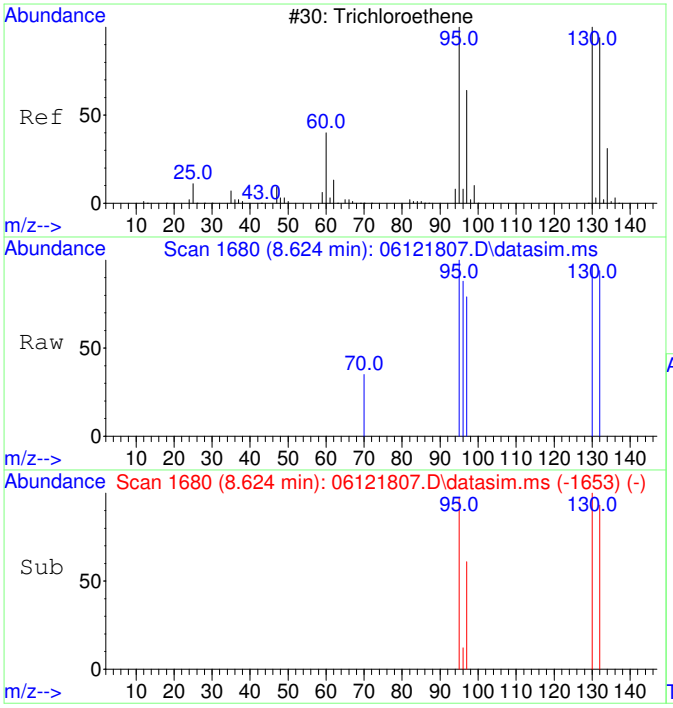


#10
1,2-Dichloroethane
Concen: 158.54 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 62 Resp: 620

Ion	Ratio	Lower	Upper
62	100		
64	48.7	2.3	62.3

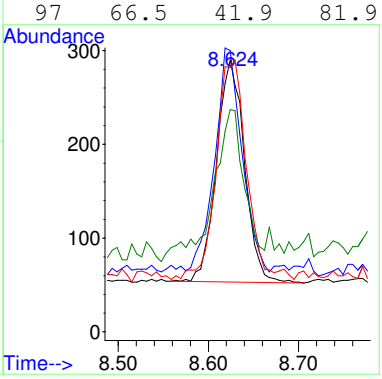


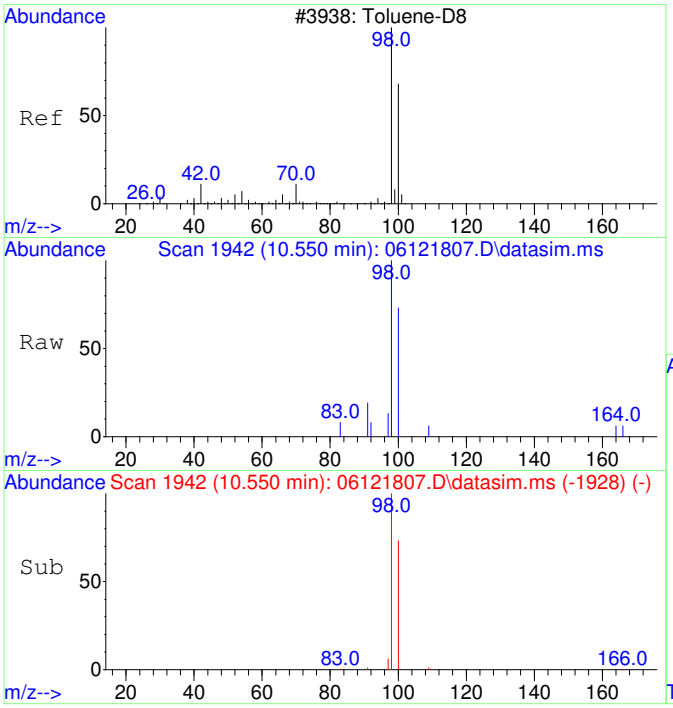


#11
Trichloroethene
Concen: 152.93 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

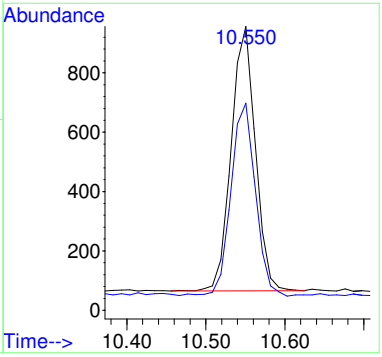


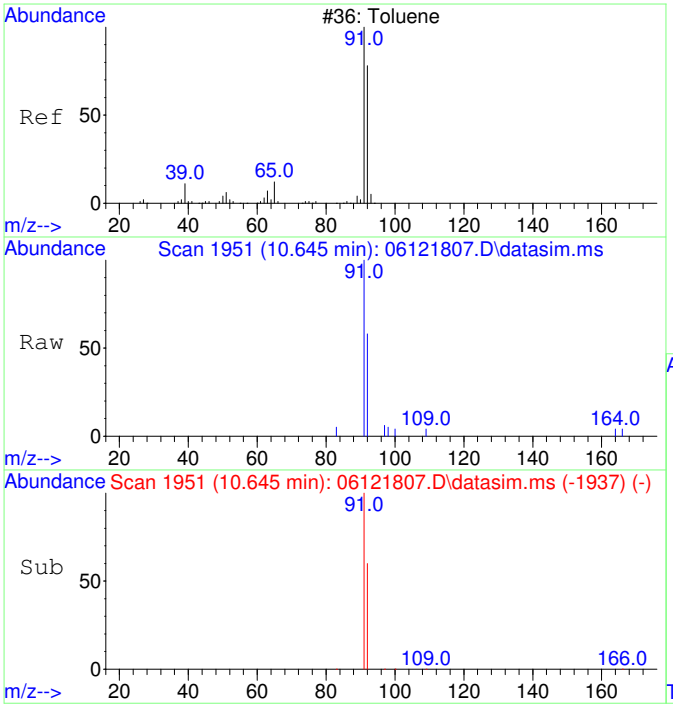


#12
Toluene-d8
Concen: 153.23 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 98 Resp: 1881

Ion	Ratio	Lower	Upper
98	100		
100	73.1	38.7	98.7

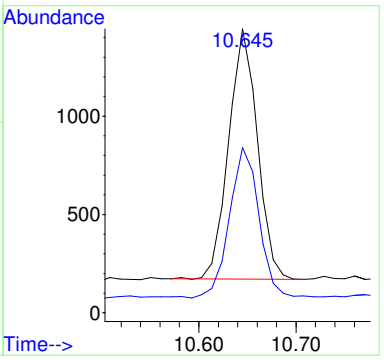


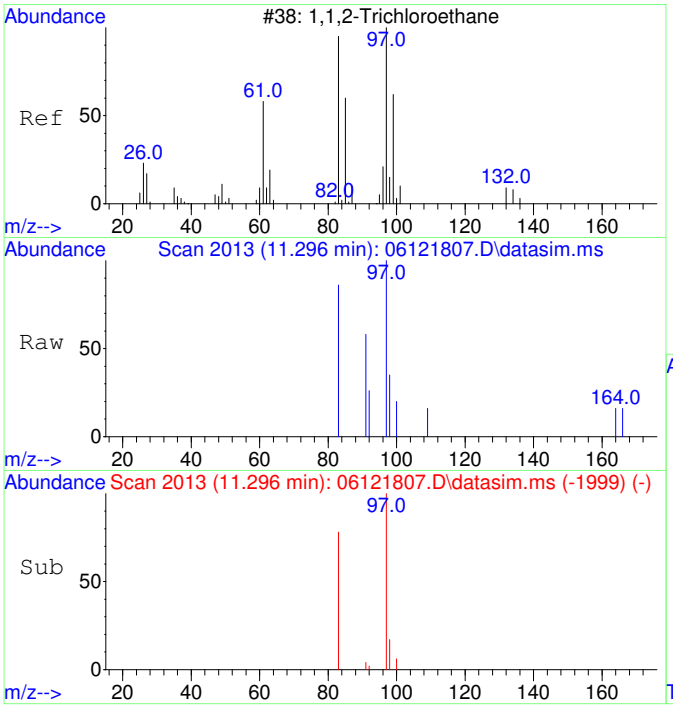


#13
Toluene
Concen: 157.91 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2599

Ion	Ratio	Lower	Upper
91	100		
92	61.4	30.0	90.0

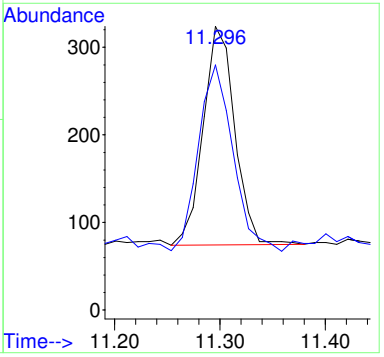


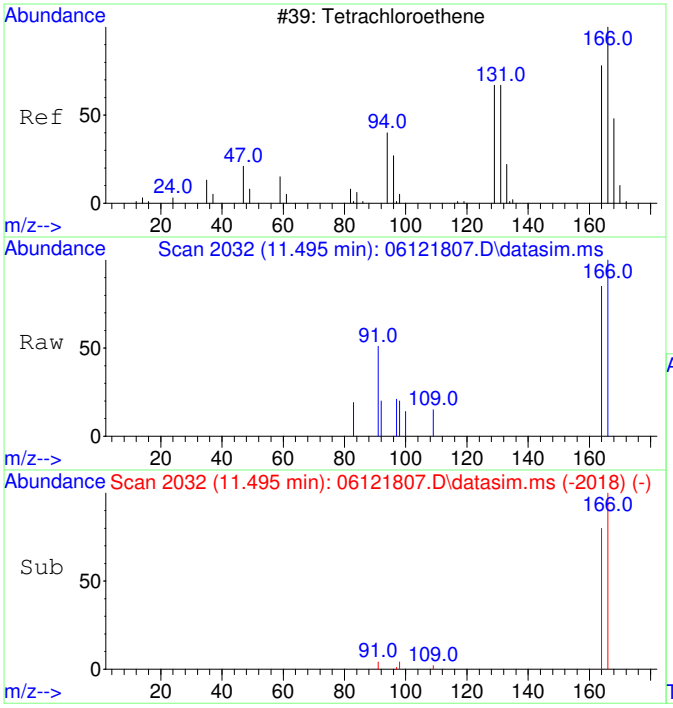


#14
1,1,2-Trichloroethane
Concen: 153.15 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 97 Resp: 521

Ion	Ratio	Lower	Upper
97	100		
83	92.7	53.4	113.4

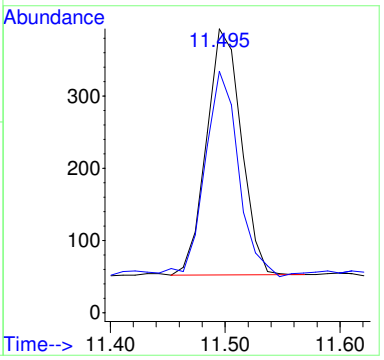


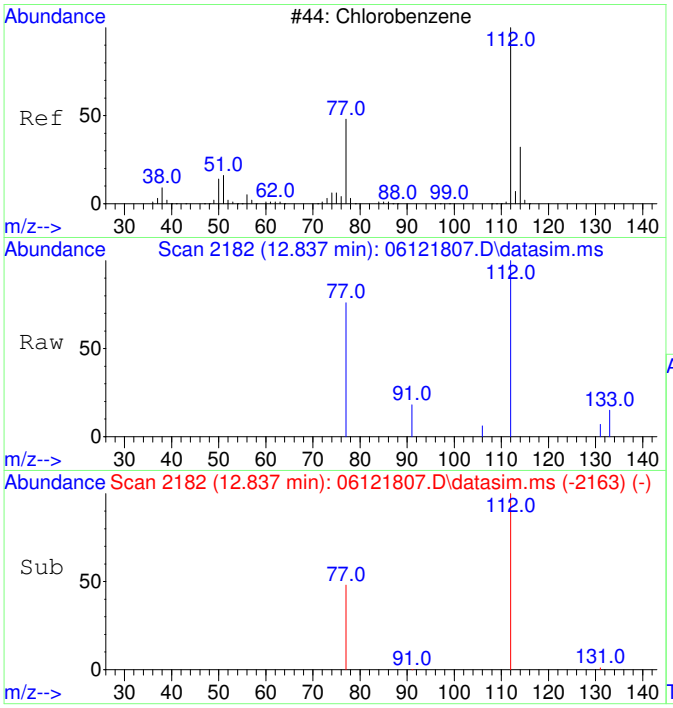


#15
Tetrachloroethene
Concen: 154.41 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:166 Resp: 716

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

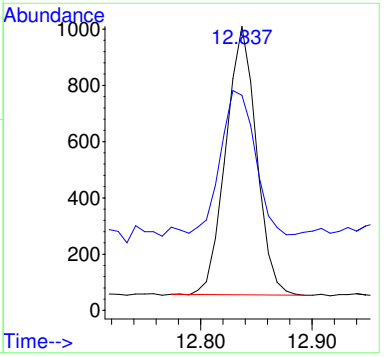


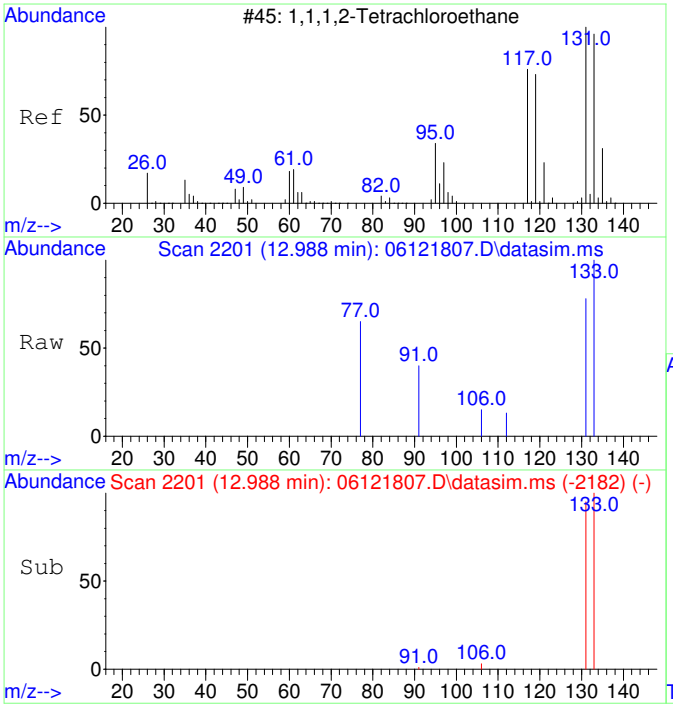


#16
Chlorobenzene
Concen: 155.19 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:112 Resp: 1823

Ion	Ratio	Lower	Upper
112	100		
77	66.6	28.1	88.1

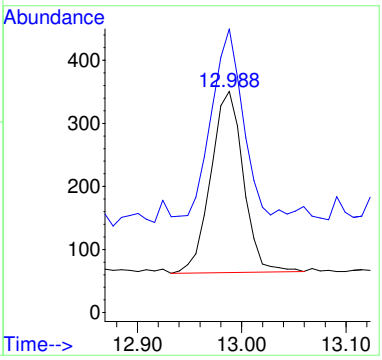


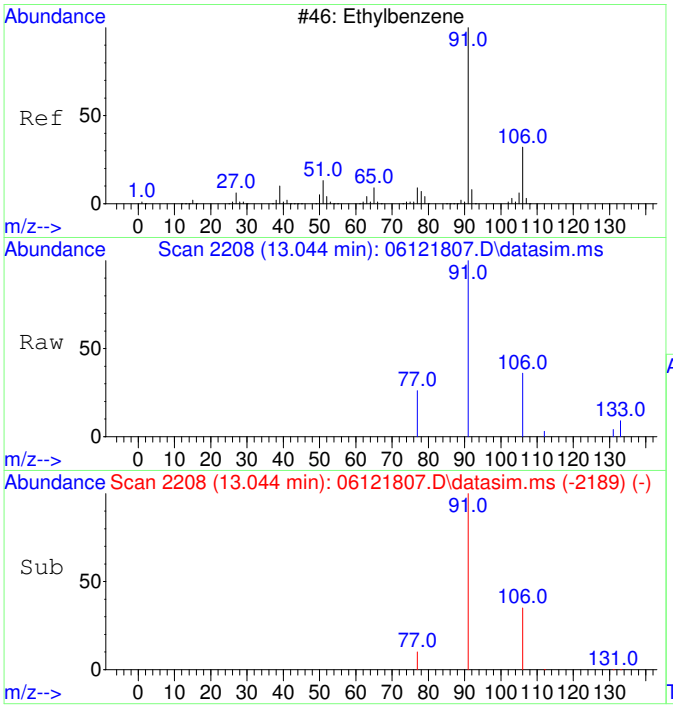


#17
1,1,1,2-Tetrachloroethane
Concen: 156.28 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:131 Resp: 623

Ion	Ratio	Lower	Upper
131	100		
133	106.6	66.2	126.2

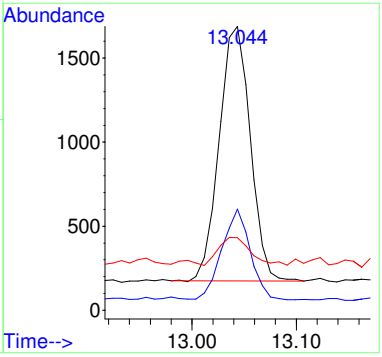


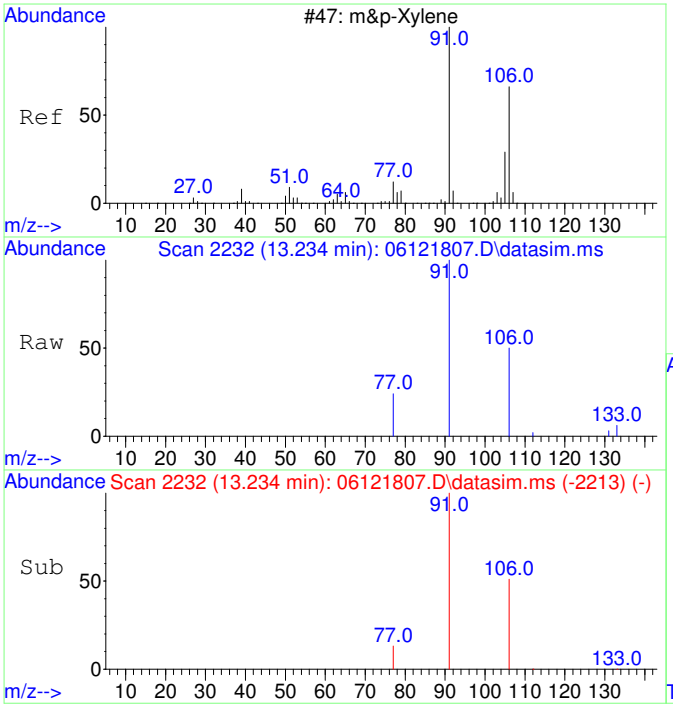


#18
Ethylbenzene
Concen: 158.83 ug/L
RT: 13.044 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

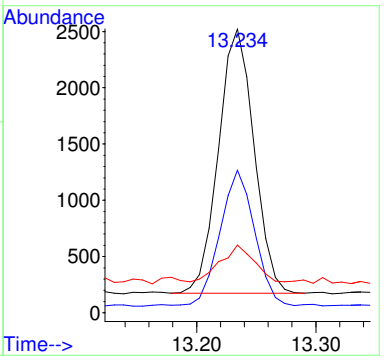


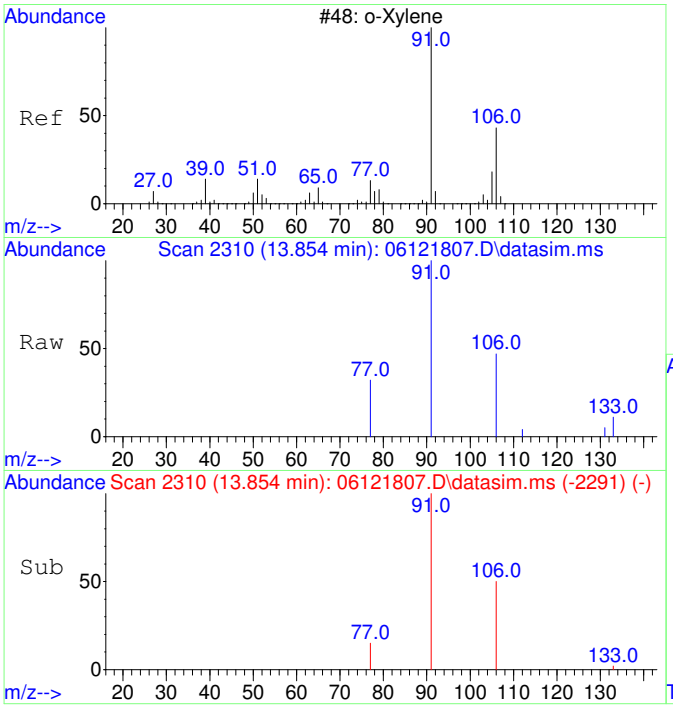


#19
m&p-Xylene
Concen: 320.39 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

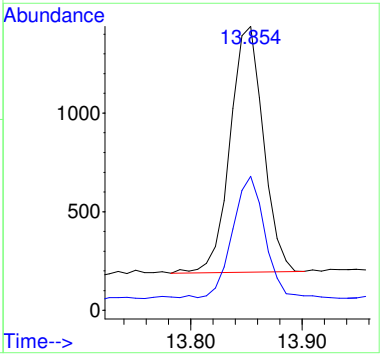


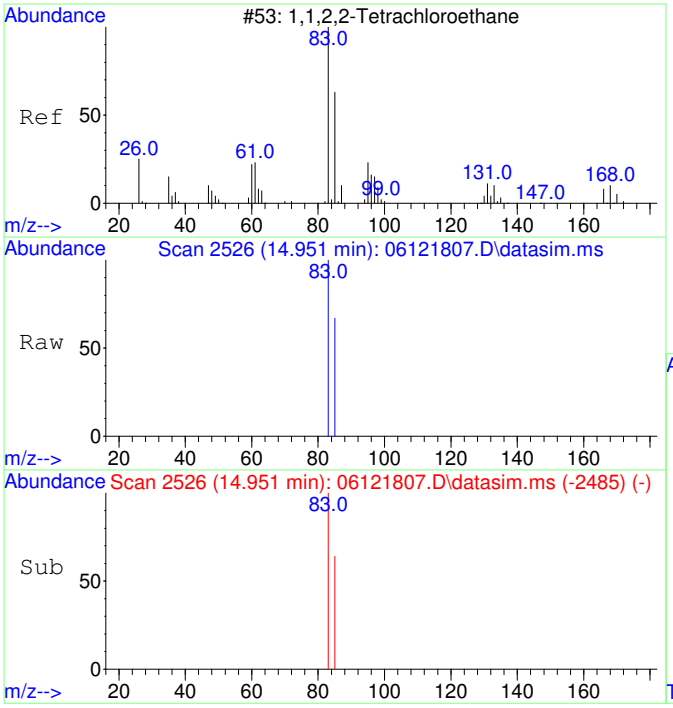


#20
o-Xylene
Concen: 159.68 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 91 Resp: 2578

Ion	Ratio	Lower	Upper
91	100		
106	48.3	18.3	78.3

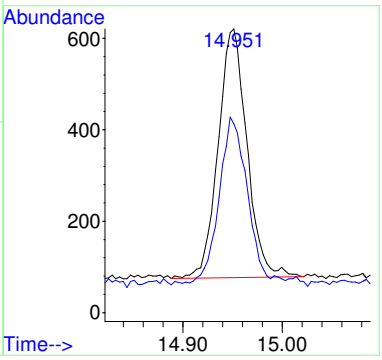


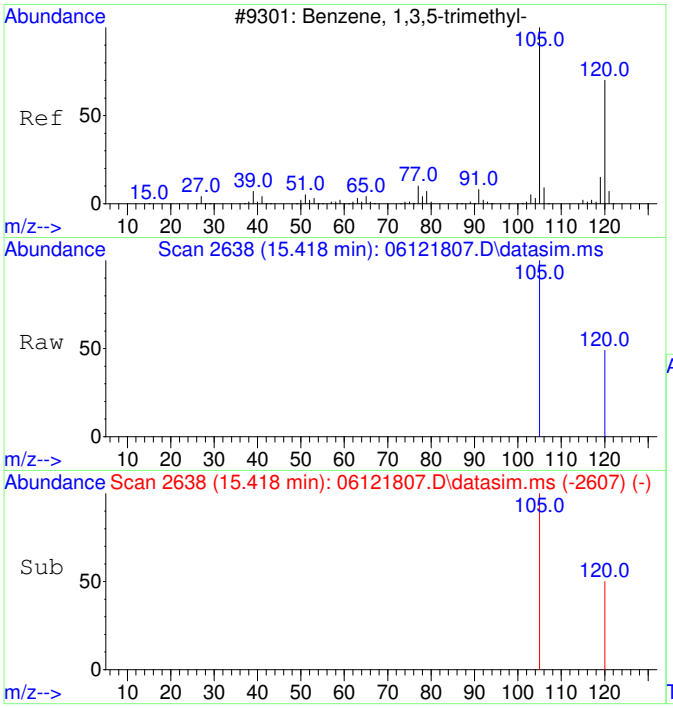


#21
1,1,2,2-Tetrachloroethane
Concen: 157.77 ug/L
RT: 14.951 min Scan# 2526
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 83 Resp: 1097

Ion	Ratio	Lower	Upper
83	100		
85	66.5	34.4	94.4

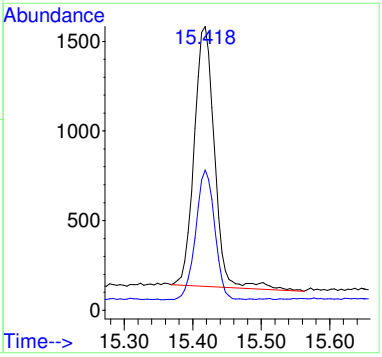


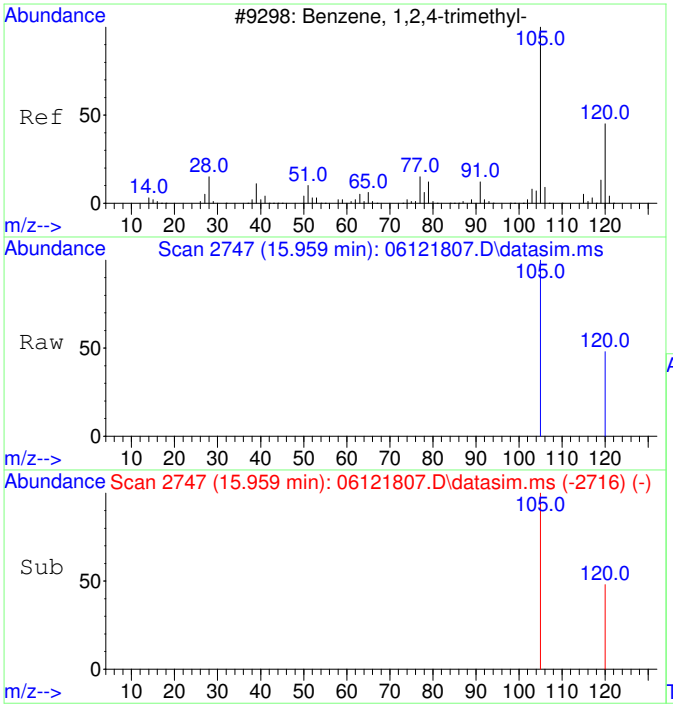


#22
1,3,5-Trimethylbenzene
Concen: 163.79 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 2992

Ion	Ratio	Lower	Upper
105	100		
120	46.5	19.1	79.1

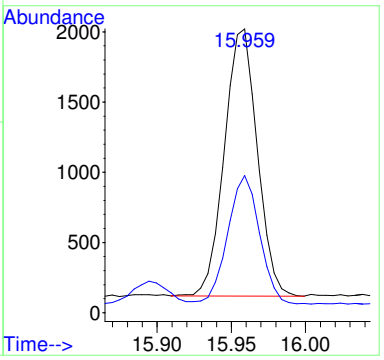


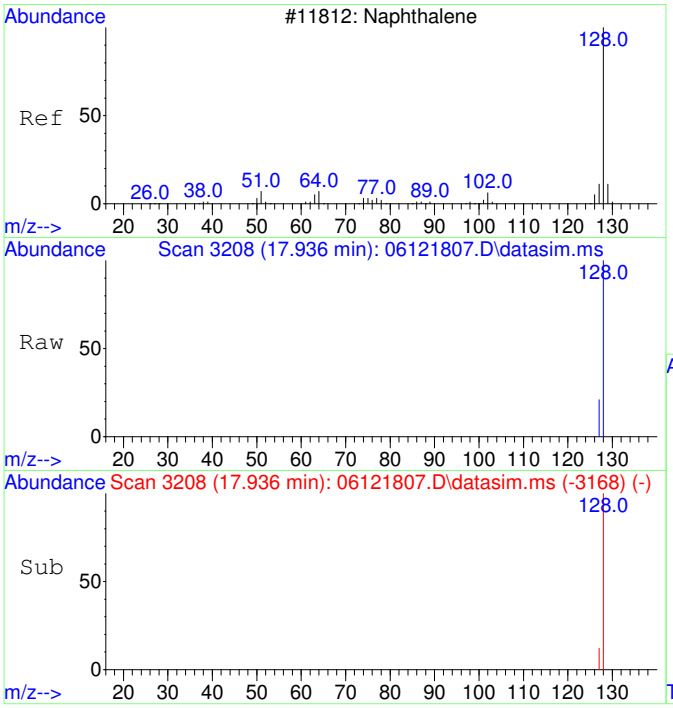


#23
1,2,4-Trimethylbenzene
Concen: 161.01 ug/L
RT: 15.959 min Scan# 2747
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:105 Resp: 2942

Ion	Ratio	Lower	Upper
105	100		
120	45.2	15.5	75.5

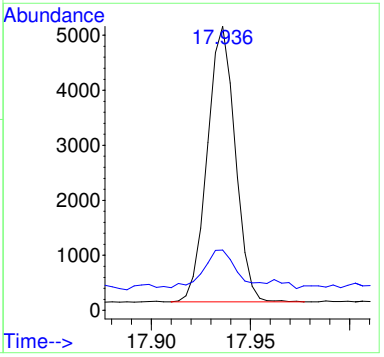


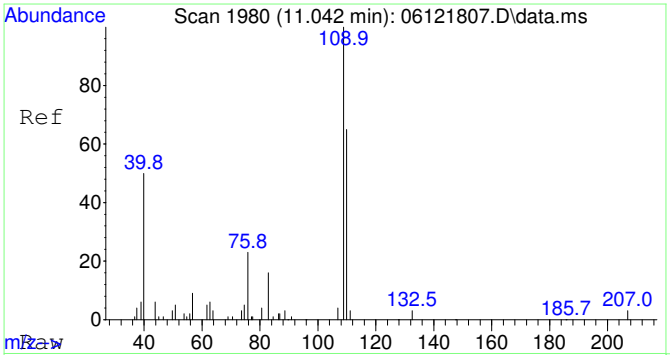


#24
Naphthalene
Concen: 163.10 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion:128 Resp: 4891

Ion	Ratio	Lower	Upper
128	100		
127	18.1	0.0	42.5

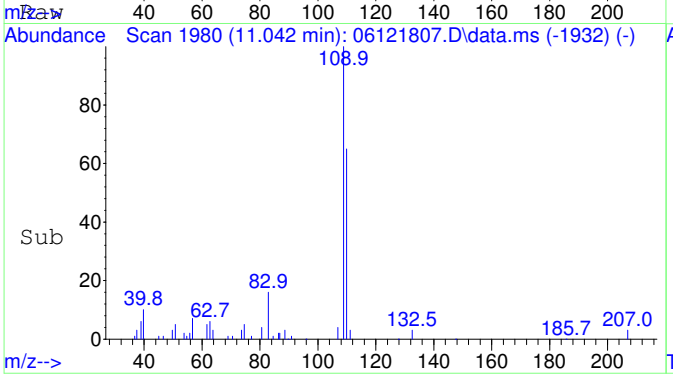


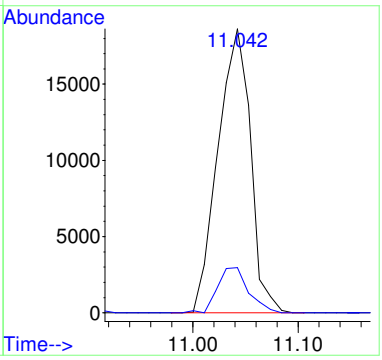


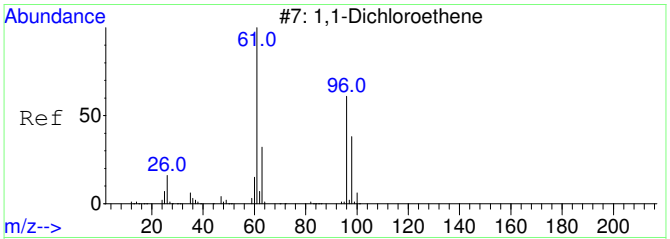
#25
2-Fluorotoluene SCAN
Concen: 4541.08 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

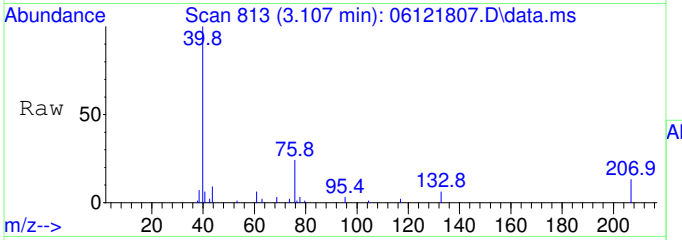
Tgt Ion:109 Resp: 39990

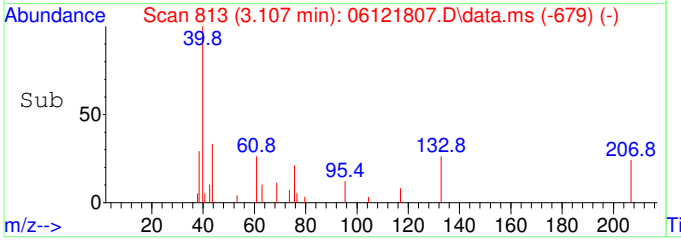
Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	45.7







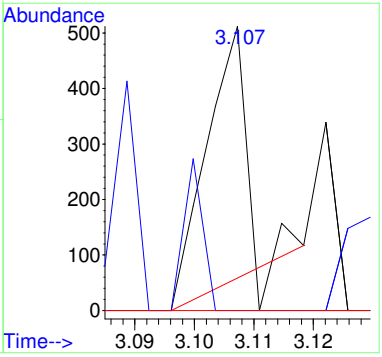


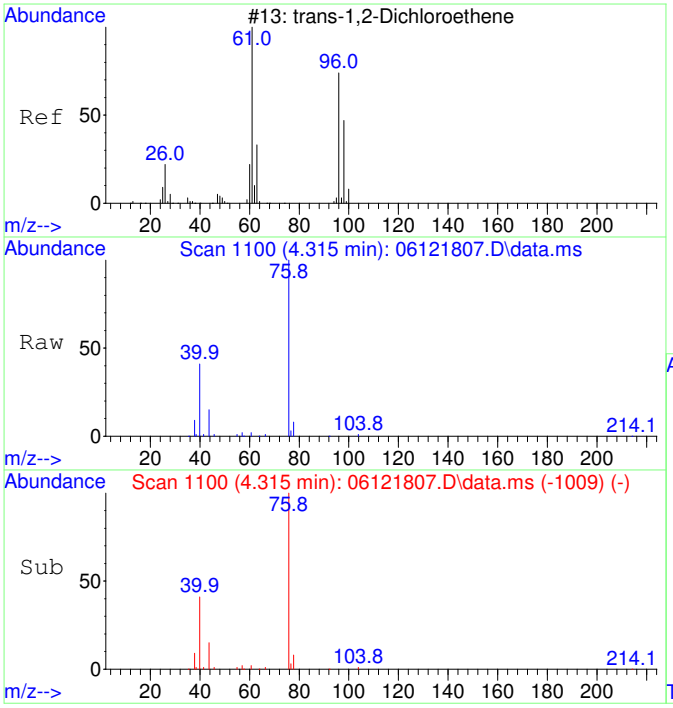


#26
1,1-Dichloroethene SCAN
Concen: 100.57 ug/L
RT: 3.107 min Scan# 813
Delta R.T. -0.003 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

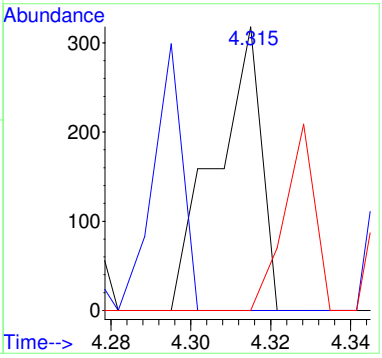


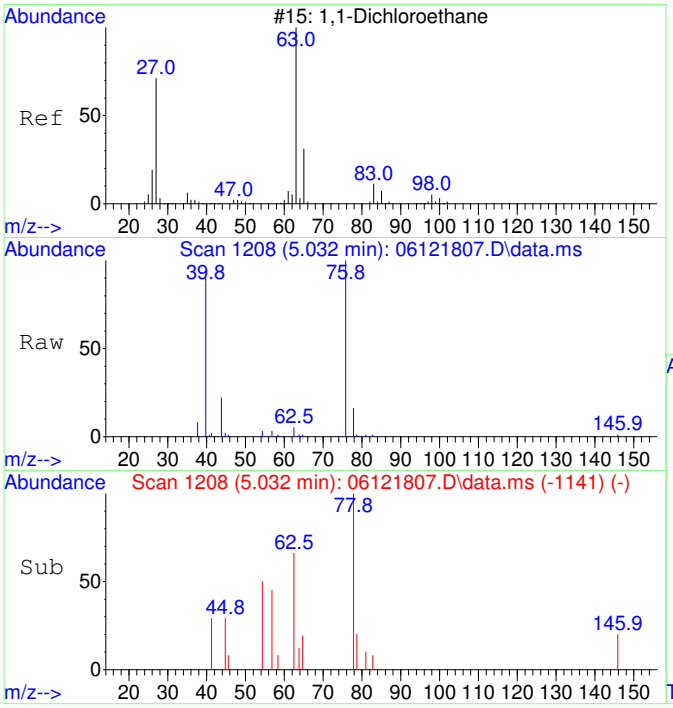


#27
trans-1,2-Dichloroethene SCAN
Concen: 98.89 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. -0.020 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

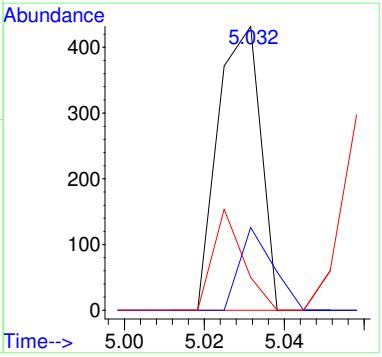


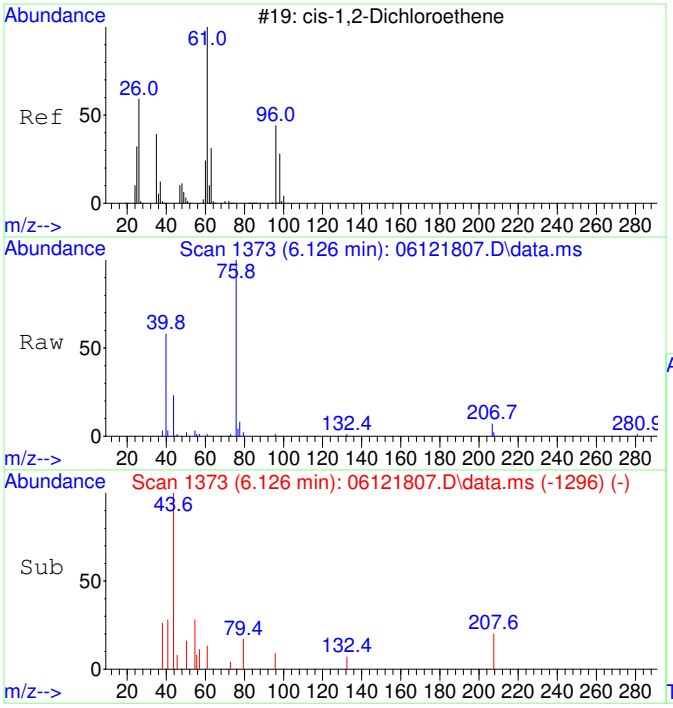


#28
1,1-Dichloroethane SCAN
Concen: 98.32 ug/L
RT: 5.032 min Scan# 1208
Delta R.T. -0.053 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

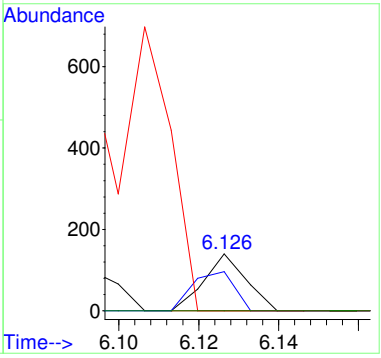


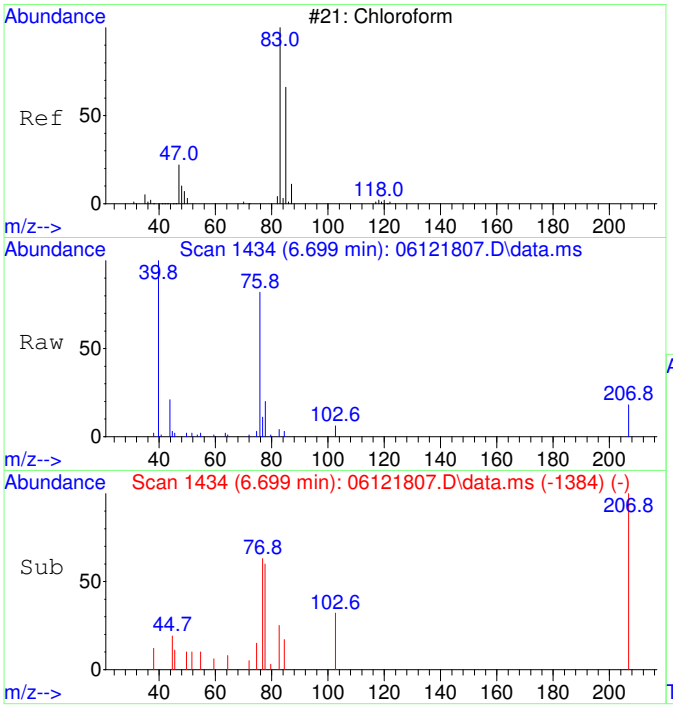


#29
cis-1,2-Dichloroethene SCAN
Concen: 36.24 ug/L
RT: 6.126 min Scan# 1373
Delta R.T. 0.013 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

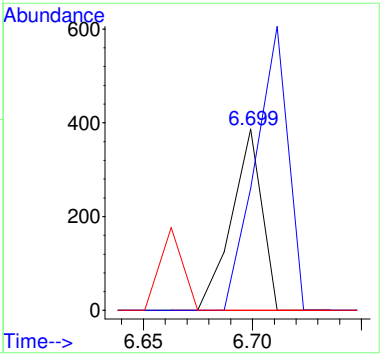


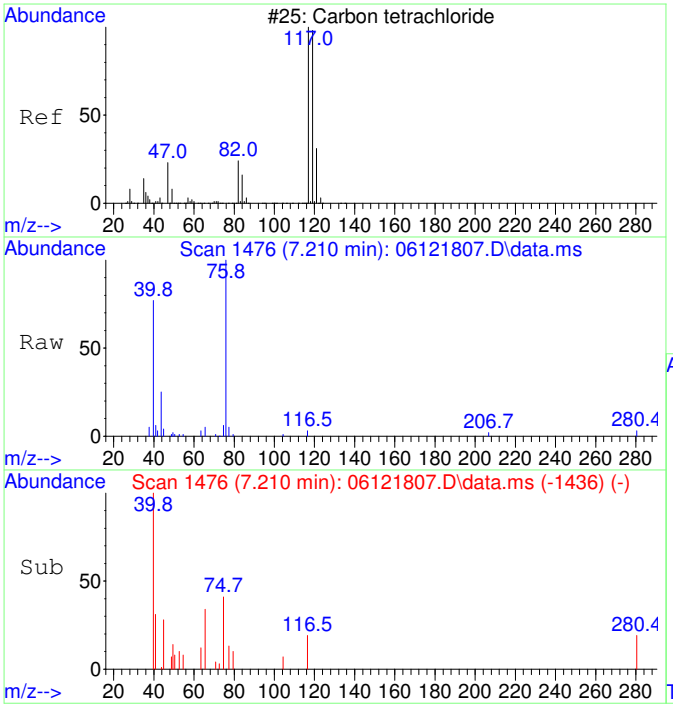


#30
Chloroform SCAN
Concen: 108.25 ug/L
RT: 6.699 min Scan# 1434
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

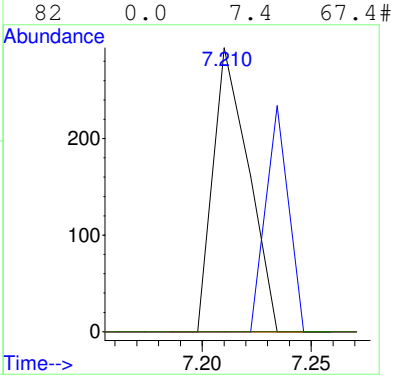


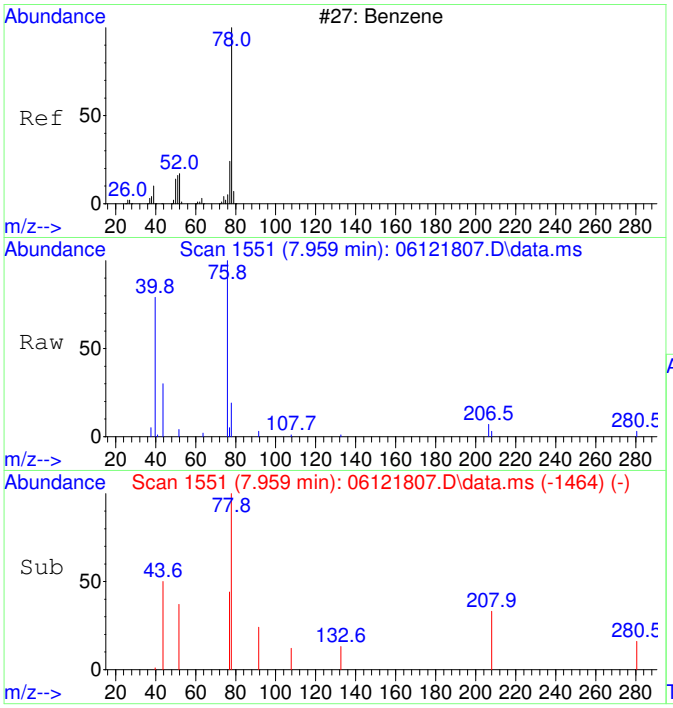


#32
Carbon tetrachloride SCAN
Concen: 109.56 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

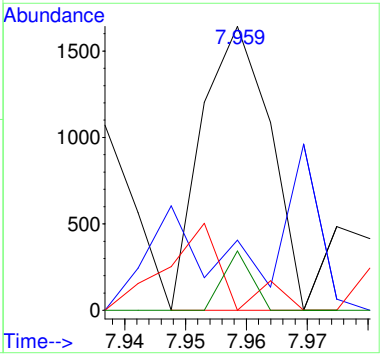


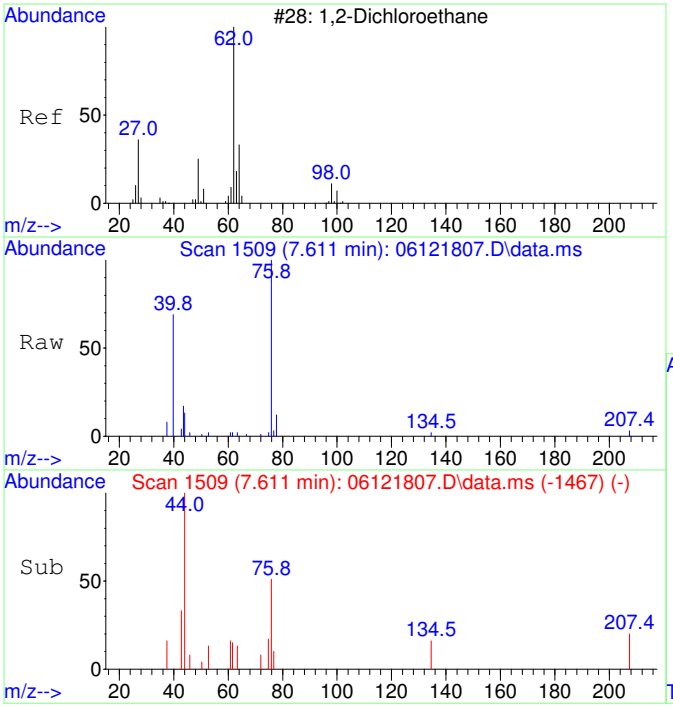


#33
Benzene SCAN
Concen: 140.11 ug/L
RT: 7.959 min Scan# 1551
Delta R.T. 0.396 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

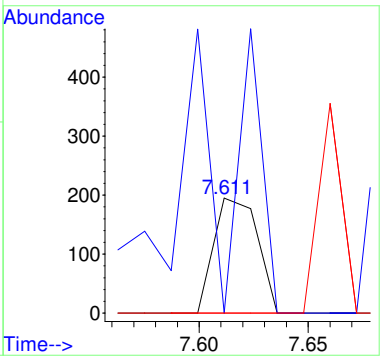


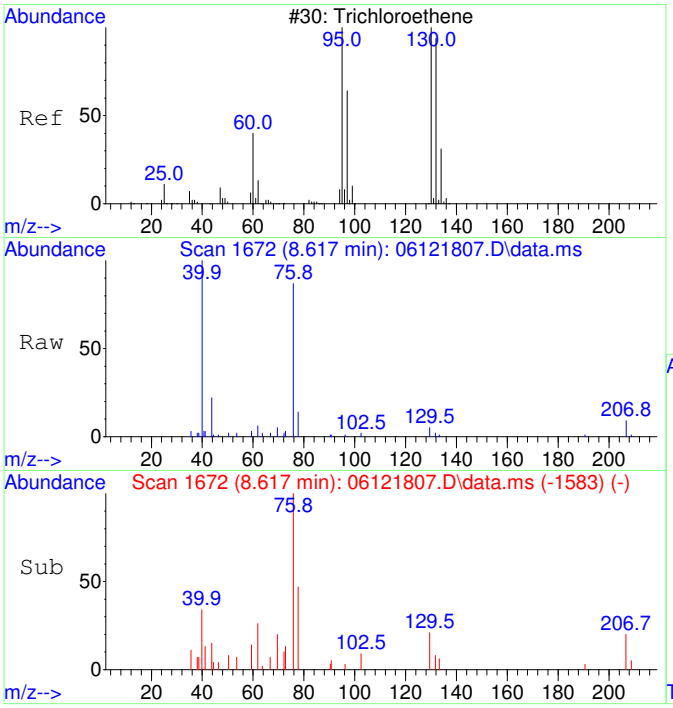


#34
1,2-Dichloroethane SCAN
Concen: 86.64 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

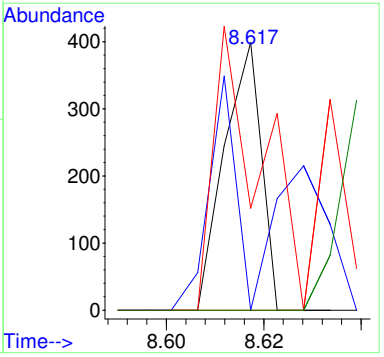


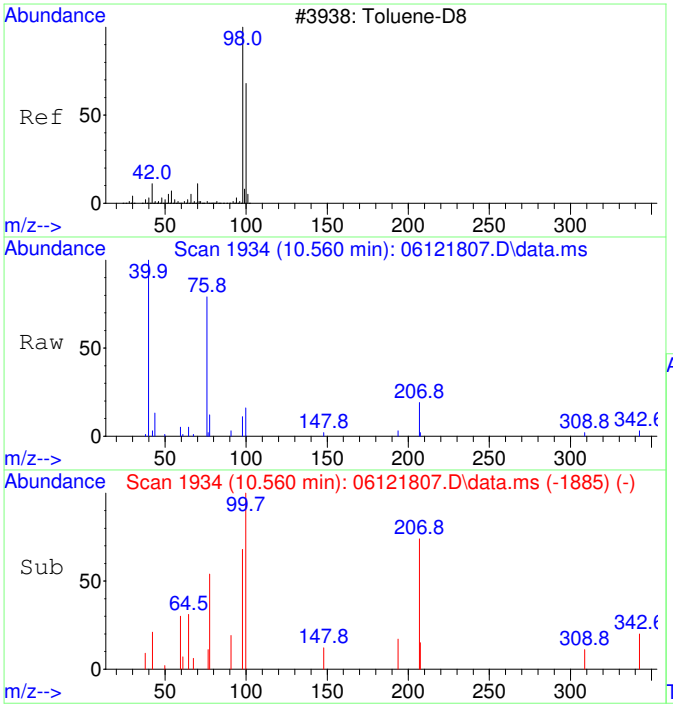


#35
Trichloroethene SCAN
Concen: 93.57 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. -0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

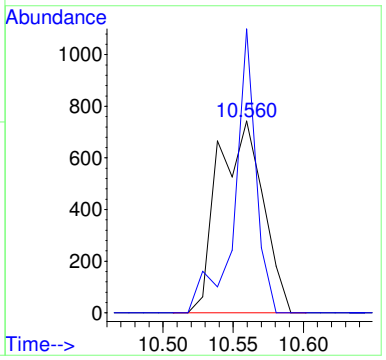


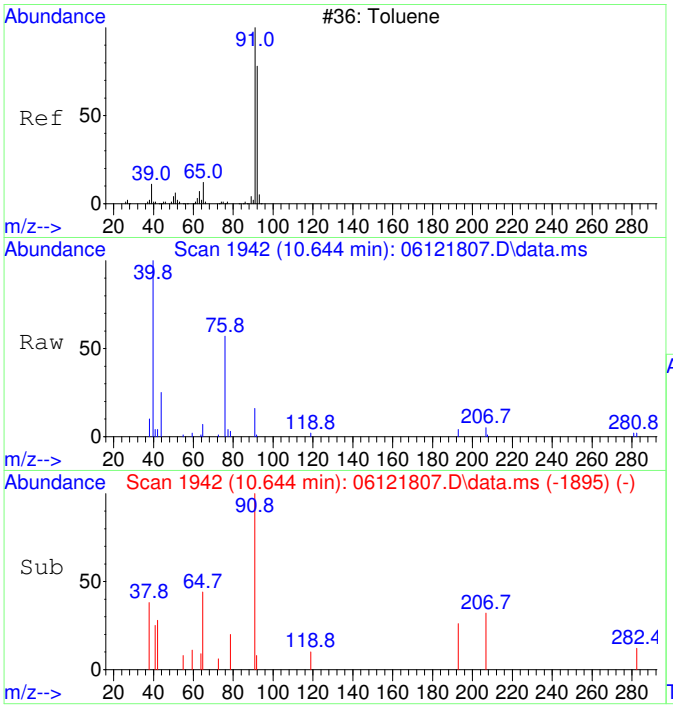


#36
Toluene-d8 SCAN
Concen: 209.90 ug/L
RT: 10.560 min Scan# 1934
Delta R.T. 0.011 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

Tgt Ion: 98 Resp: 1671

Ion	Ratio	Lower	Upper
98	100		
100	70.0	39.5	99.5

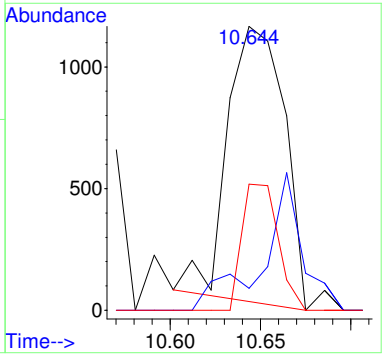


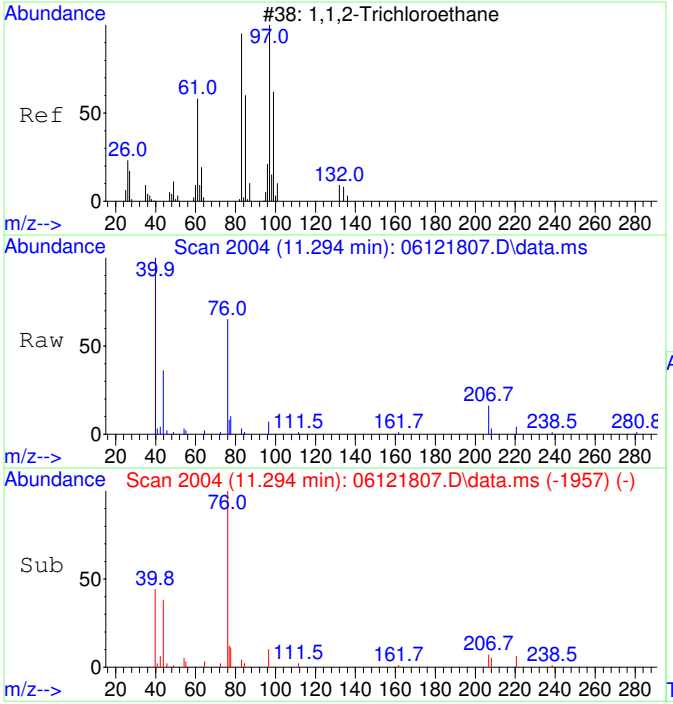


#37
Toluene SCAN
Concen: 243.87 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. -0.010 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

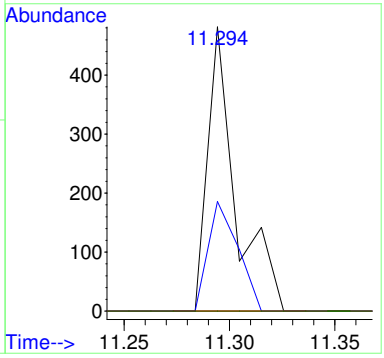


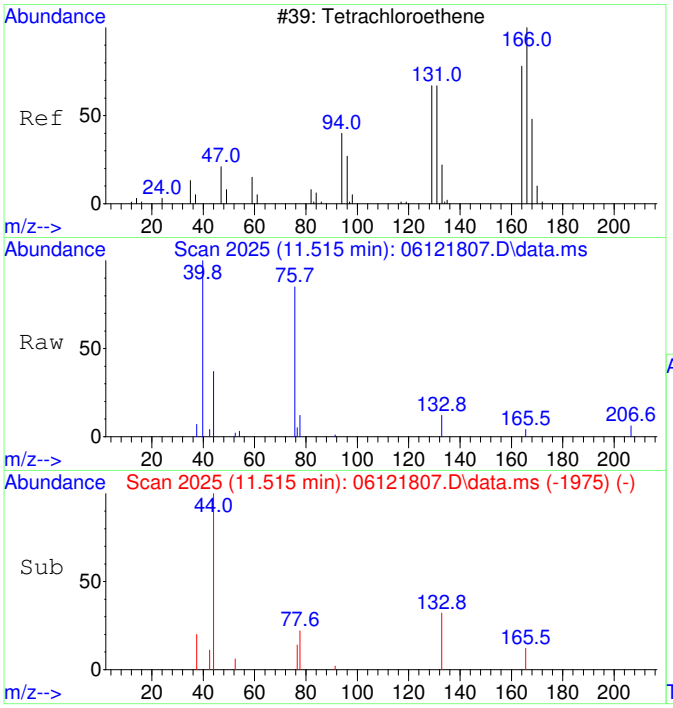


#38
1,1,2-Trichloroethane SCAN
Concen: 228.88 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

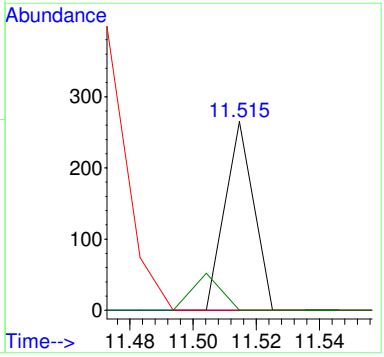


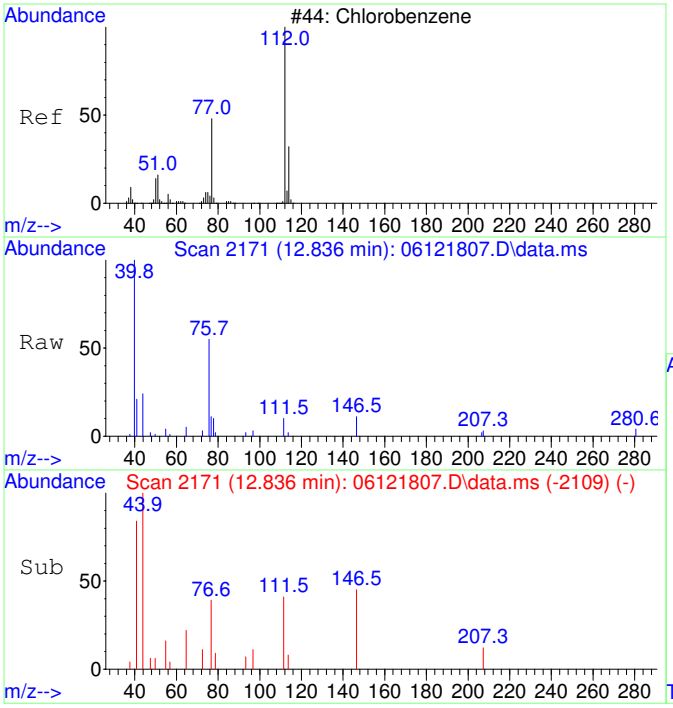


#39
Tetrachloroethene SCAN
Concen: 74.84 ug/L
RT: 11.515 min Scan# 2025
Delta R.T. 0.021 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

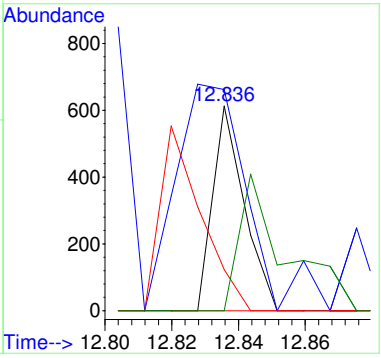


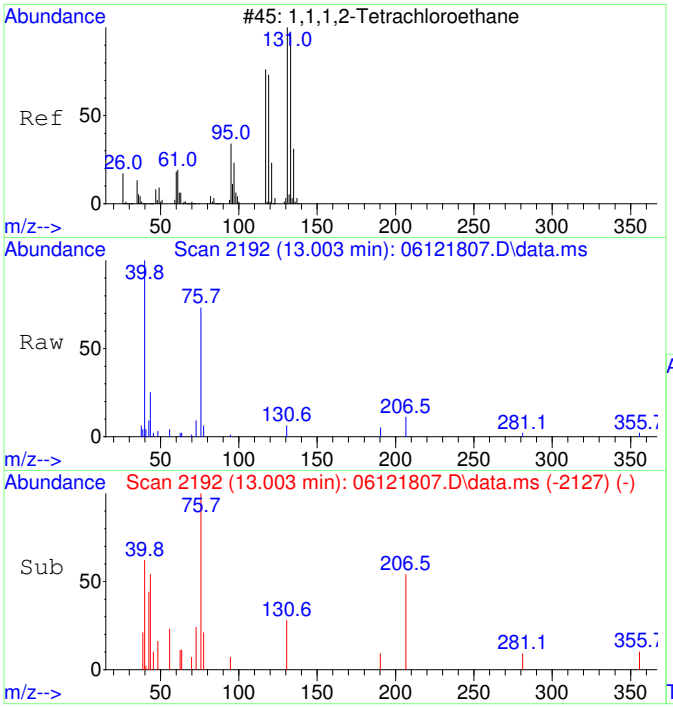


#40
Chlorobenzene SCAN
Concen: 64.84 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

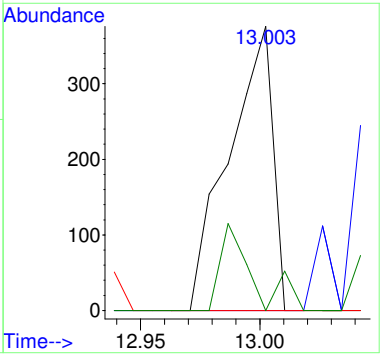


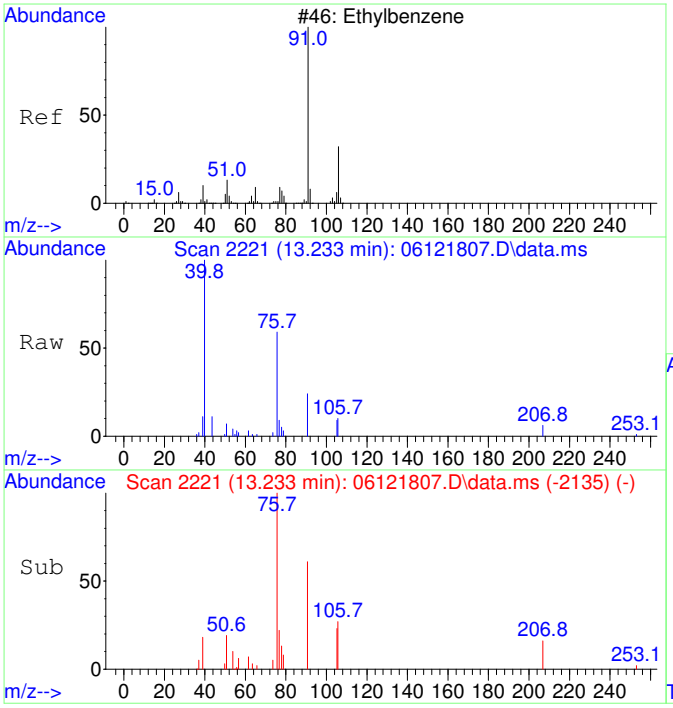


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 218.90 ug/L
RT: 13.003 min Scan# 2192
Delta R.T. 0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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#

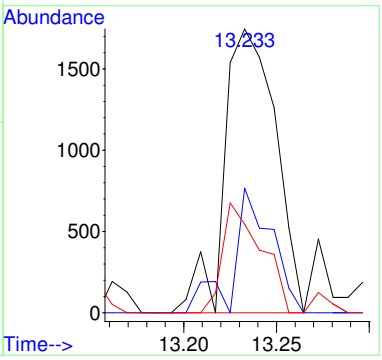


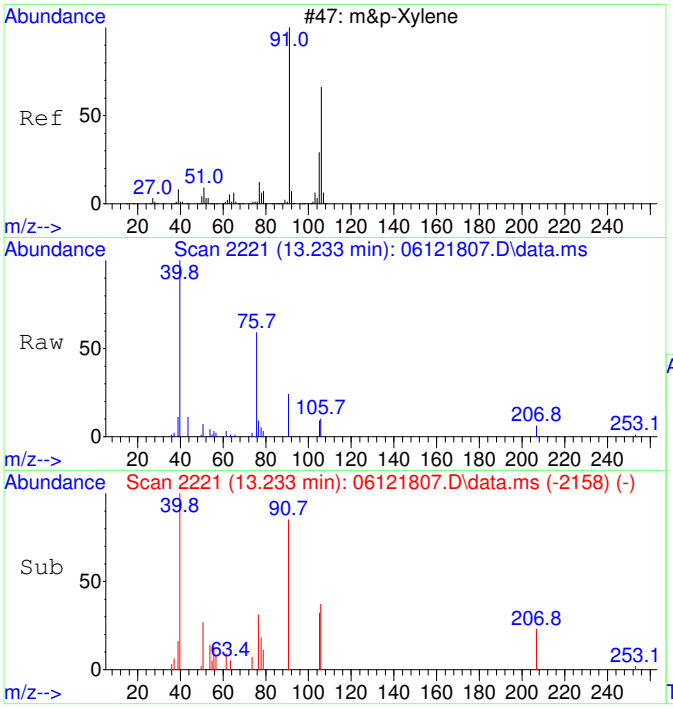


#42
Ethylbenzene SCAN
Concen: 286.28 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.183 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

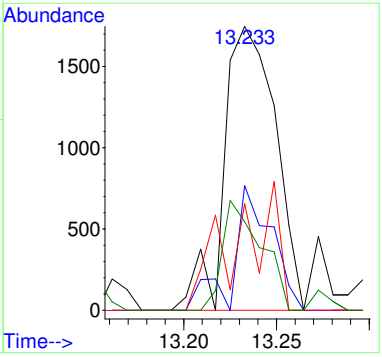


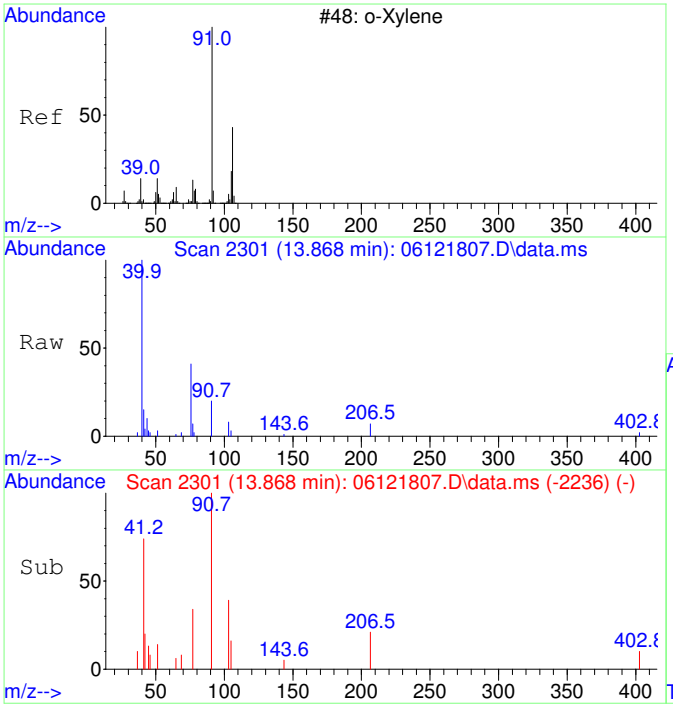


#43
m&p-Xylene SCAN
Concen: 206.25 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

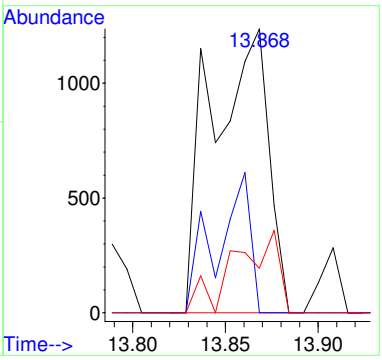


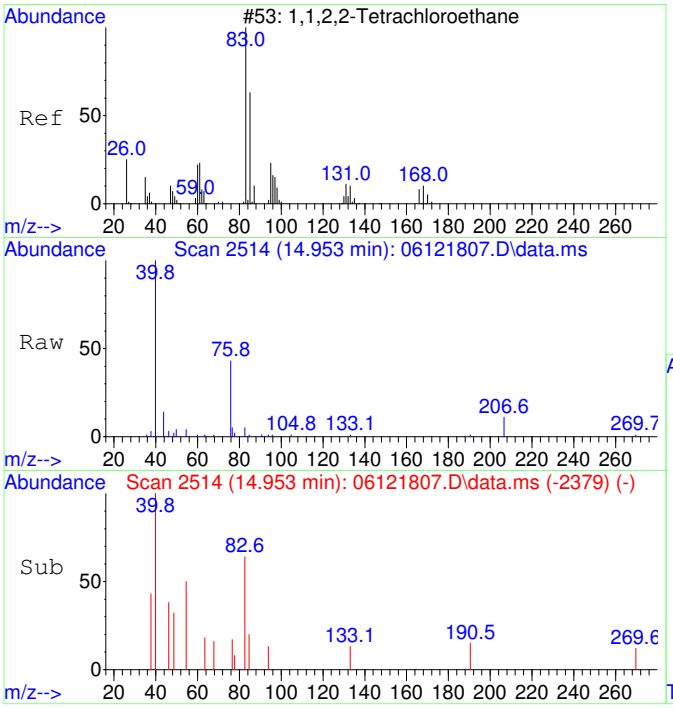


#44
o-Xylene SCAN
Concen: 282.06 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.016 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

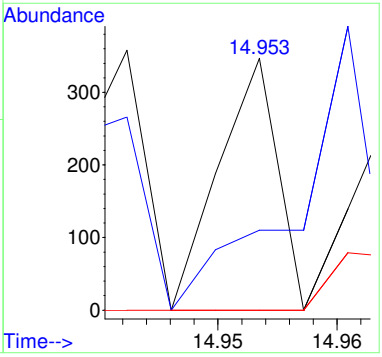


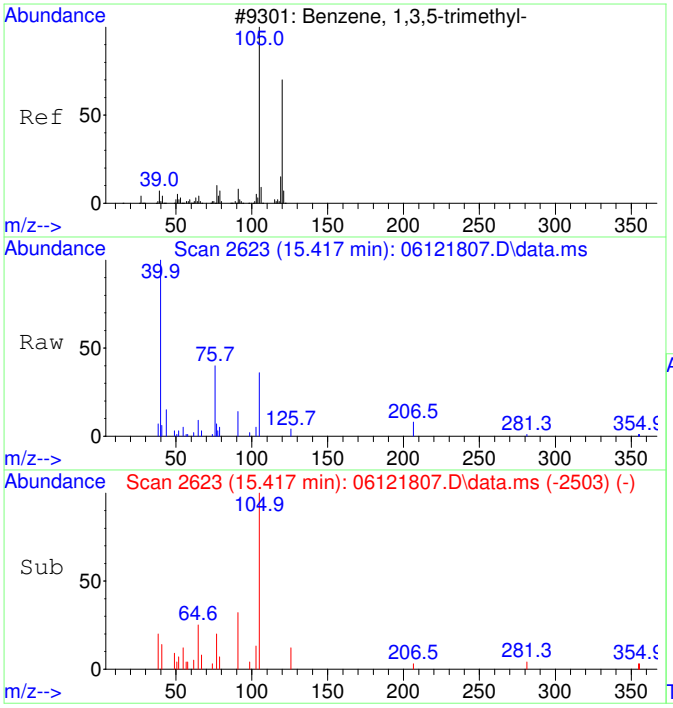


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 26.89 ug/L
RT: 14.953 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

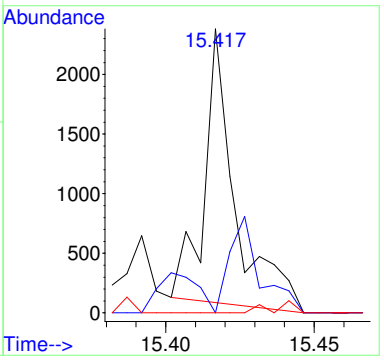


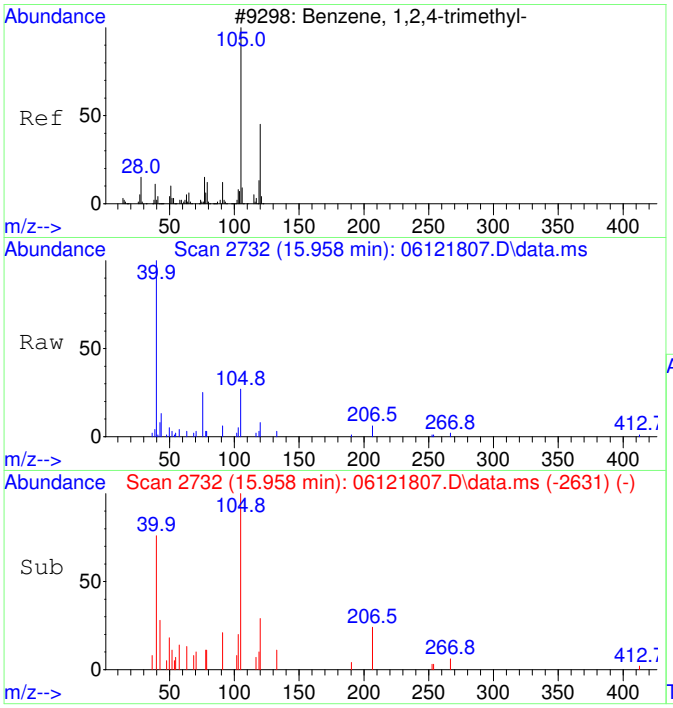


#46
1,3,5-Trimethylbenzene SCAN
Concen: 178.20 ug/L
RT: 15.417 min Scan# 2623
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

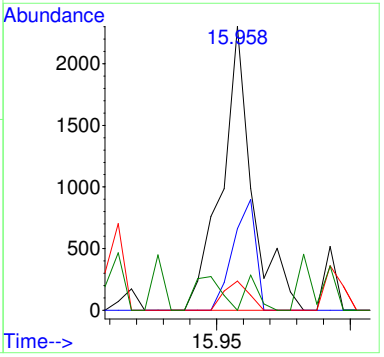


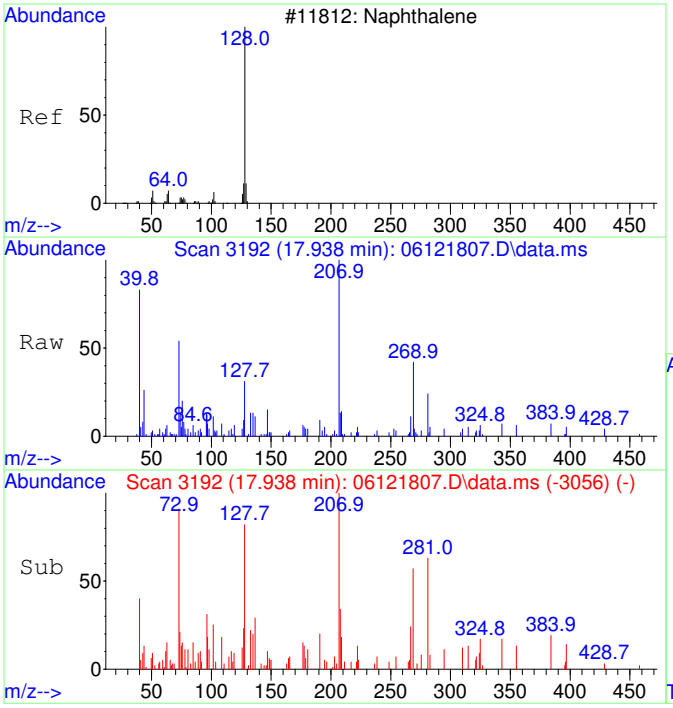


#47
1,2,4-Trimethylbenzene SCAN
Concen: 194.32 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

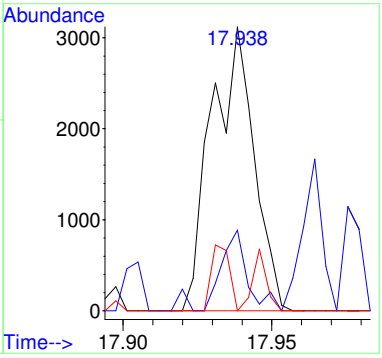




#48
Naphthalene SCAN
Concen: 229.85 ug/L
RT: 17.938 min Scan# 3192
Delta R.T. 0.004 min
Lab File: 06121807.D
Acq: 12 Jun 2018 15:19

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

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

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

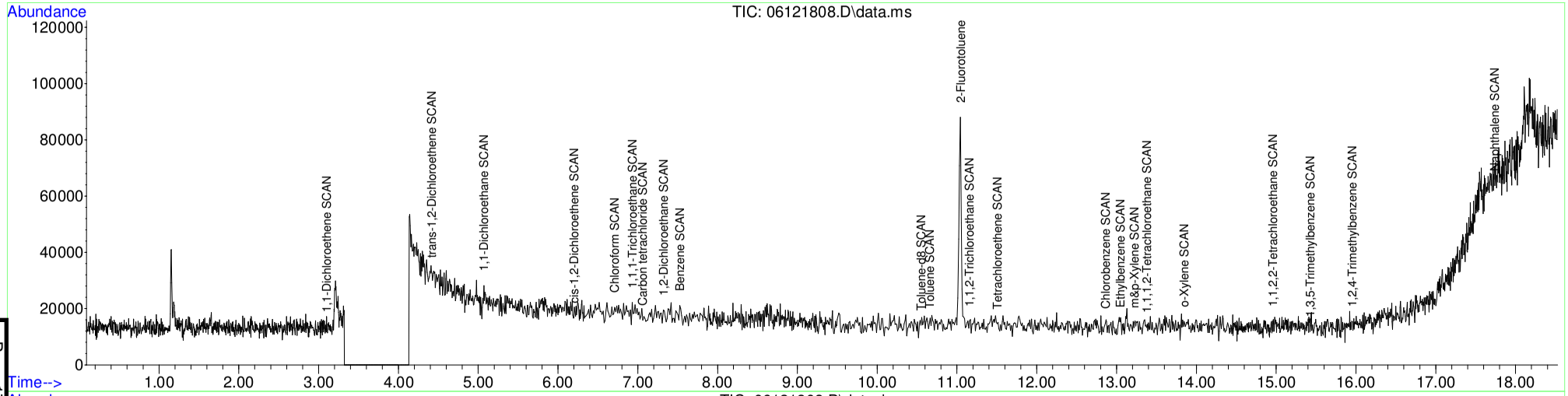
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	90218	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	746	50.91	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 1.02%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	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

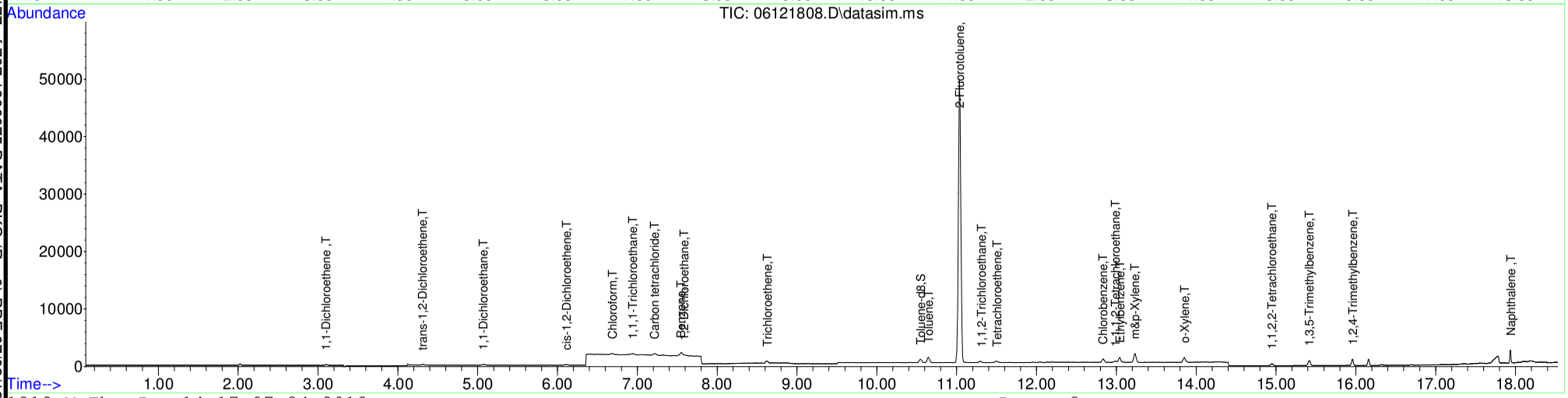
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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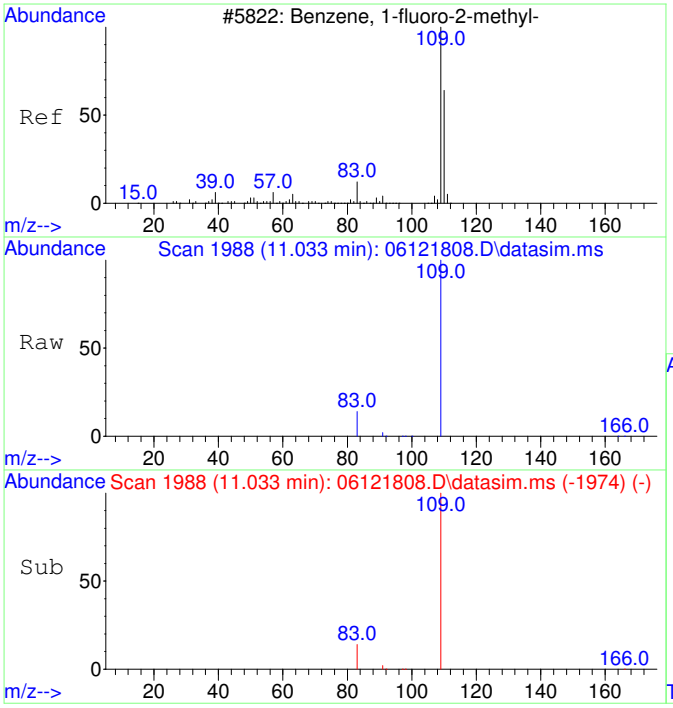
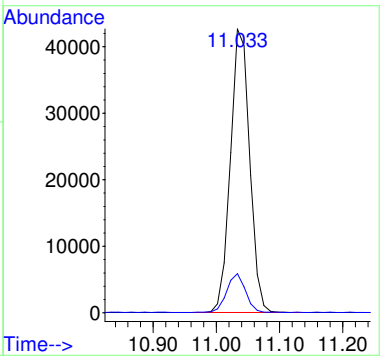
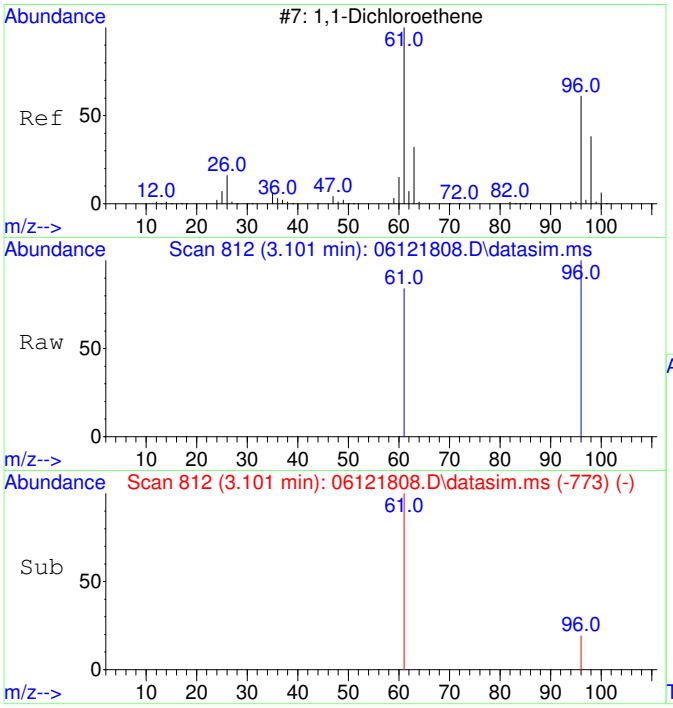


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:109 Resp: 90218

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	44.7

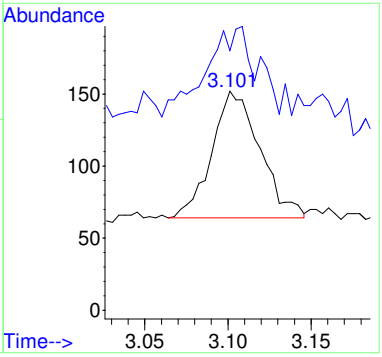


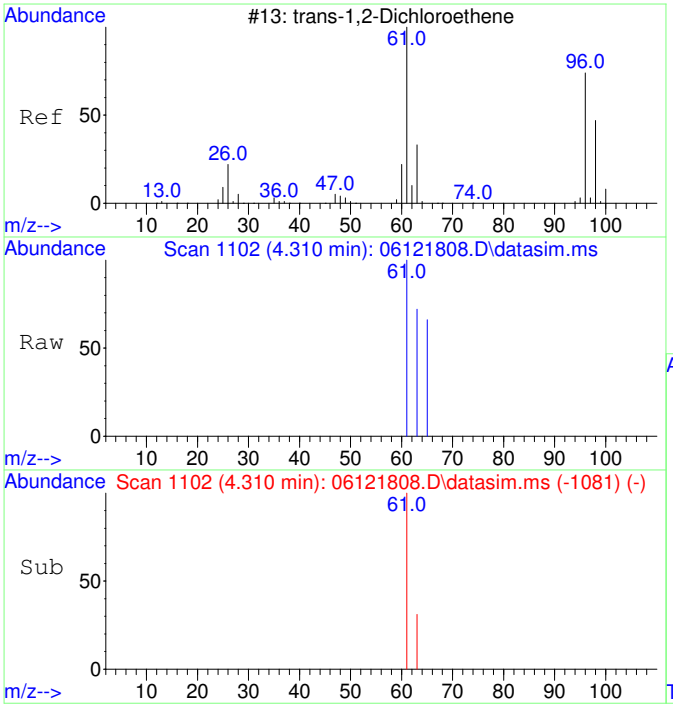


#2
1,1-Dichloroethene
Concen: 45.86 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. -0.003 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 177

Ion	Ratio	Lower	Upper
61	100		
96	63.8	28.7	88.7

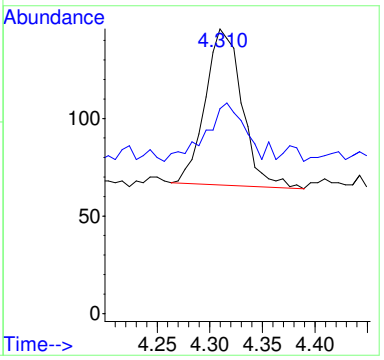


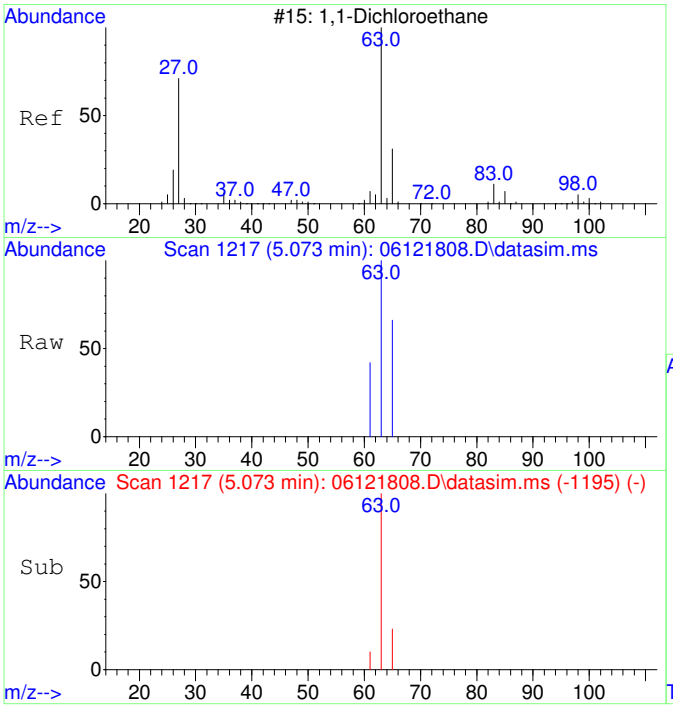


#3
trans-1,2-Dichloroethene
Concen: 48.09 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 194

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.0	62.0

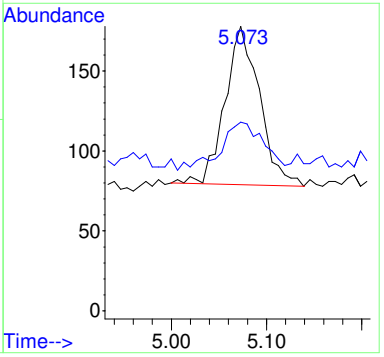


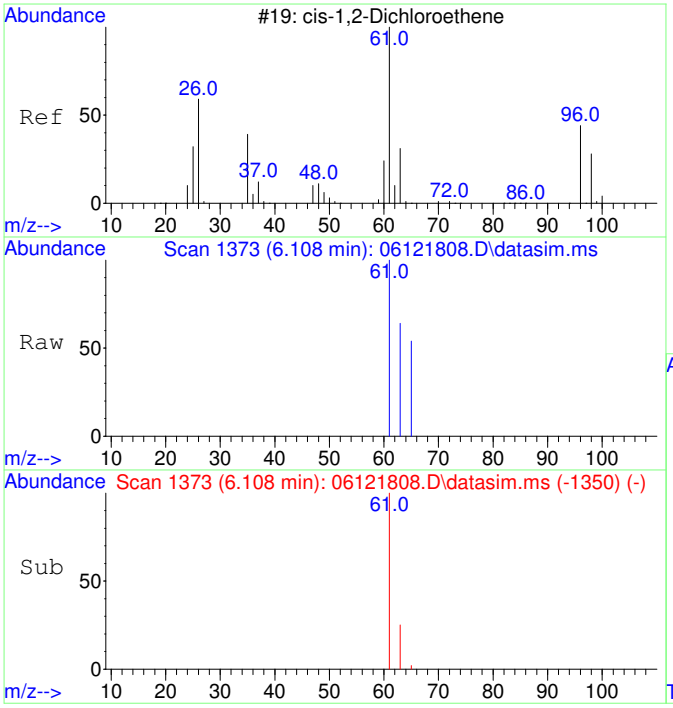


#4
1,1-Dichloroethane
Concen: 49.79 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 63 Resp: 250

Ion	Ratio	Lower	Upper
63	100		
65	37.6	1.5	61.5

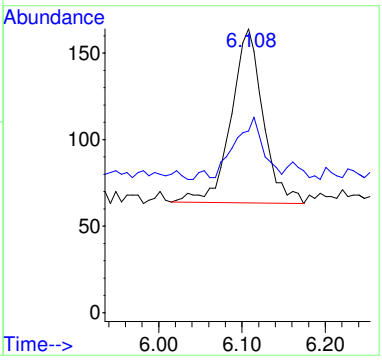


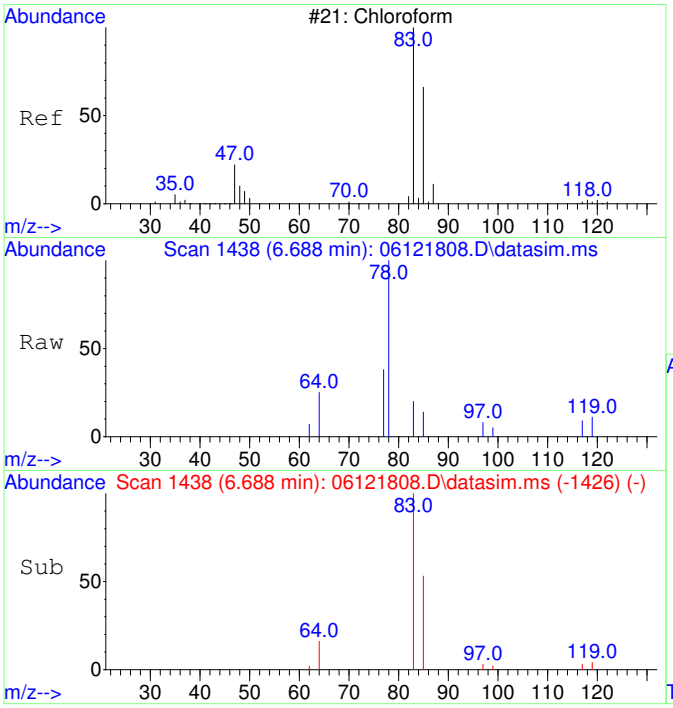


#5
cis-1,2-Dichloroethene
Concen: 53.90 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 267

Ion	Ratio	Lower	Upper
61	100		
63	30.0	2.2	62.2

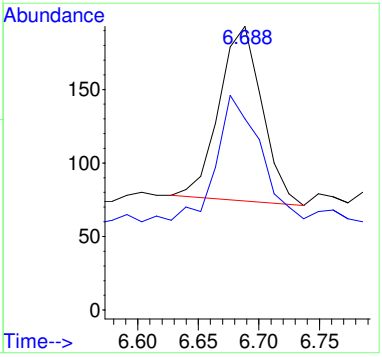


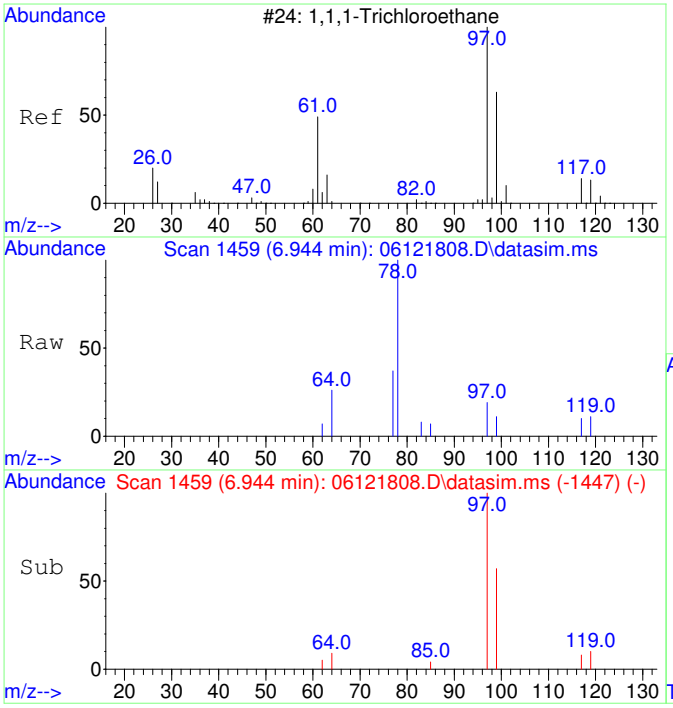


#6
Chloroform
Concen: 54.75 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 292

Ion	Ratio	Lower	Upper
83	100		
85	75.3	34.8	94.8

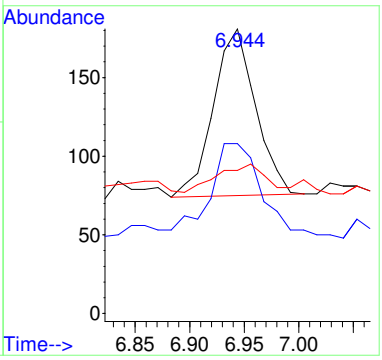


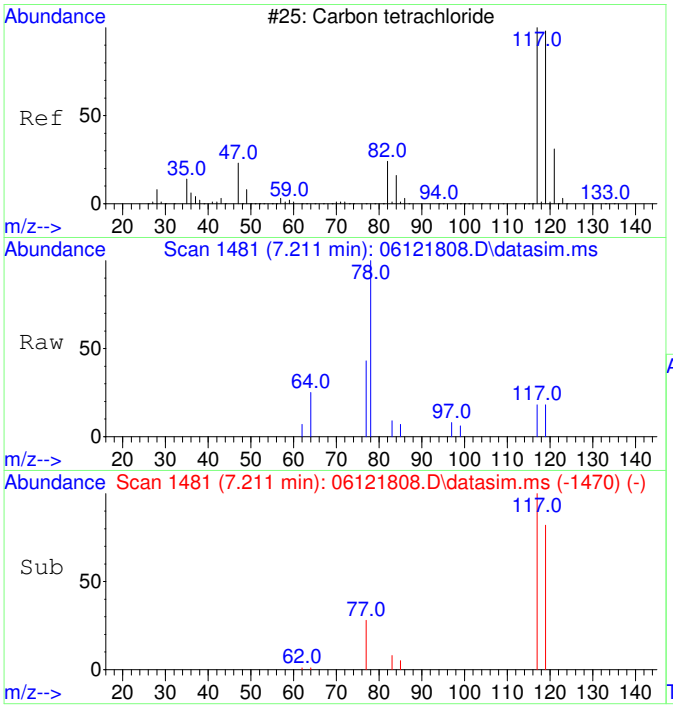


#7
1,1,1-Trichloroethane
Concen: 54.48 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

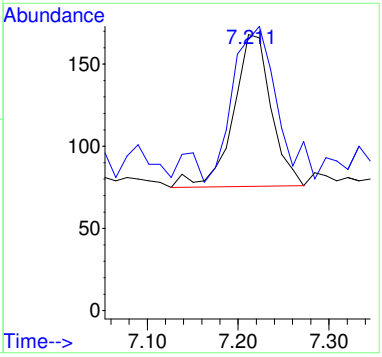


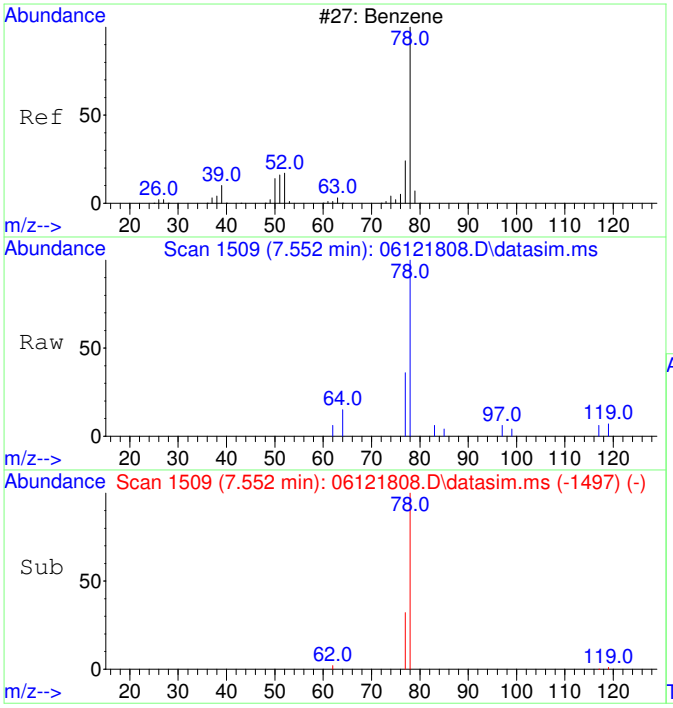


#8
Carbon tetrachloride
Concen: 53.89 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:117 Resp: 268

Ion	Ratio	Lower	Upper
117	100		
119	119.8	65.9	125.9

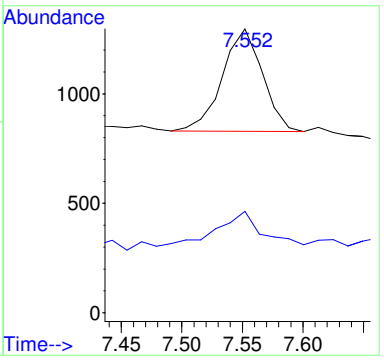


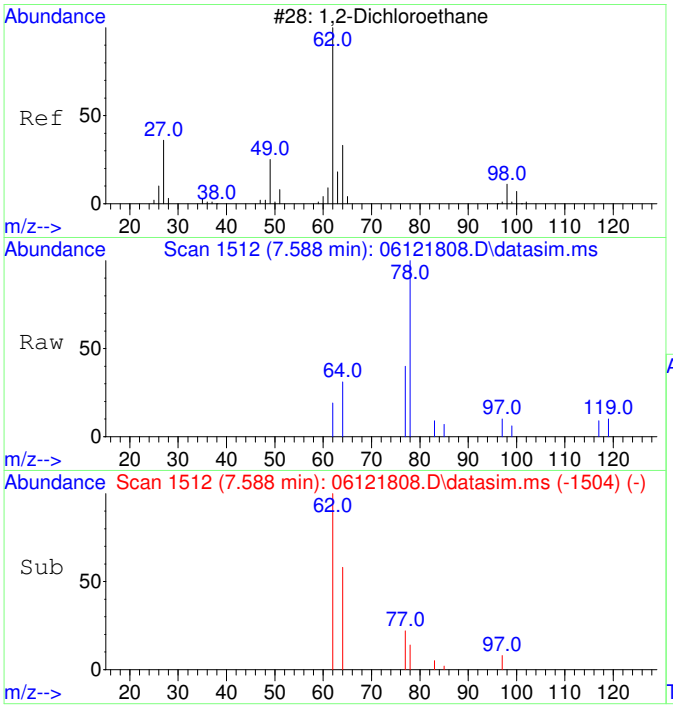


#9
Benzene
Concen: 74.63 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 78 Resp: 1081

Ion	Ratio	Lower	Upper
78	100		
77	53.6	0.0	53.0#

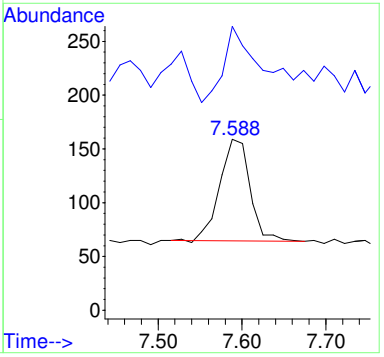


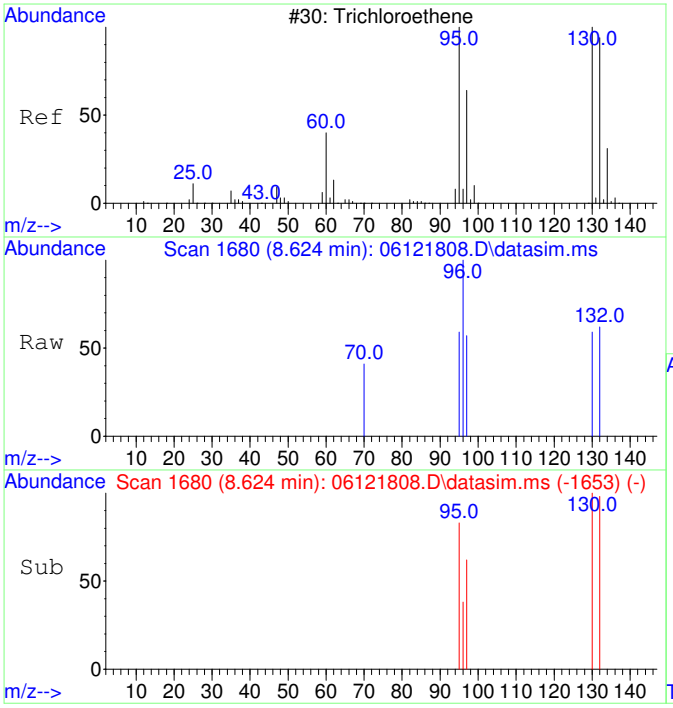


#10
1,2-Dichloroethane
Concen: 50.34 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 62 Resp: 235

Ion	Ratio	Lower	Upper
62	100		
64	97.0	2.3	62.3#

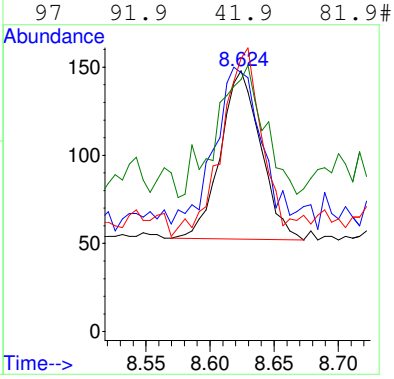


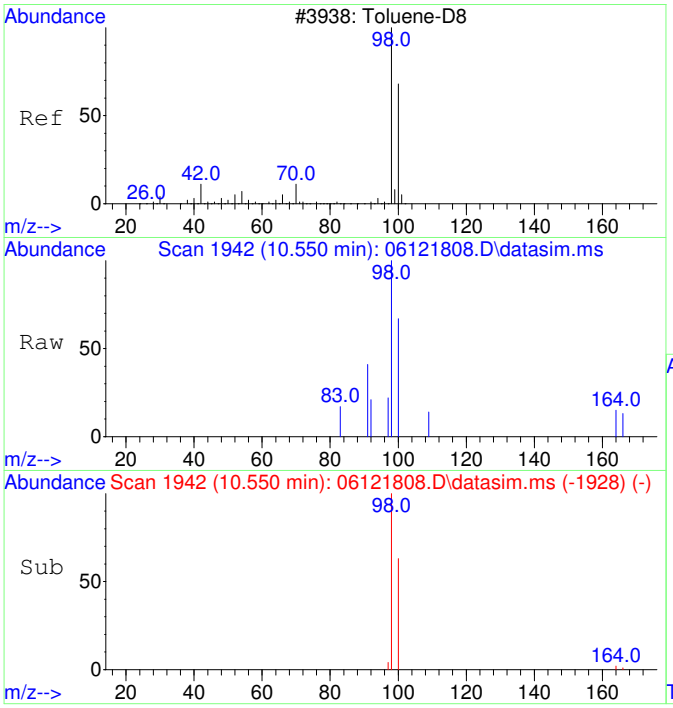


#11
Trichloroethene
Concen: 52.50 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

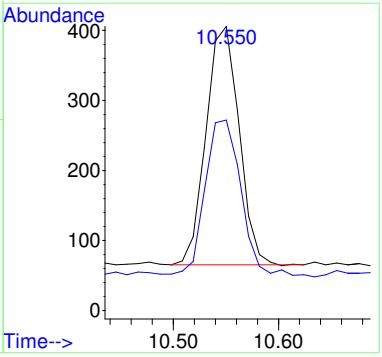


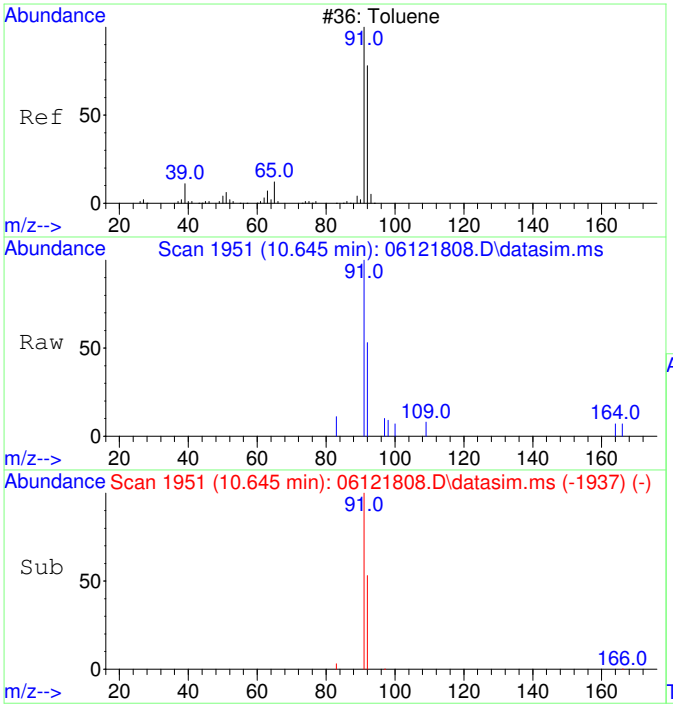


#12
Toluene-d8
Concen: 50.91 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 98 Resp: 746

Ion	Ratio	Lower	Upper
98	100		
100	71.7	38.7	98.7

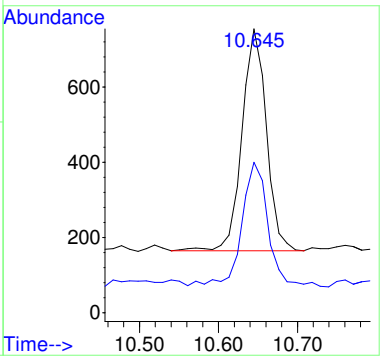


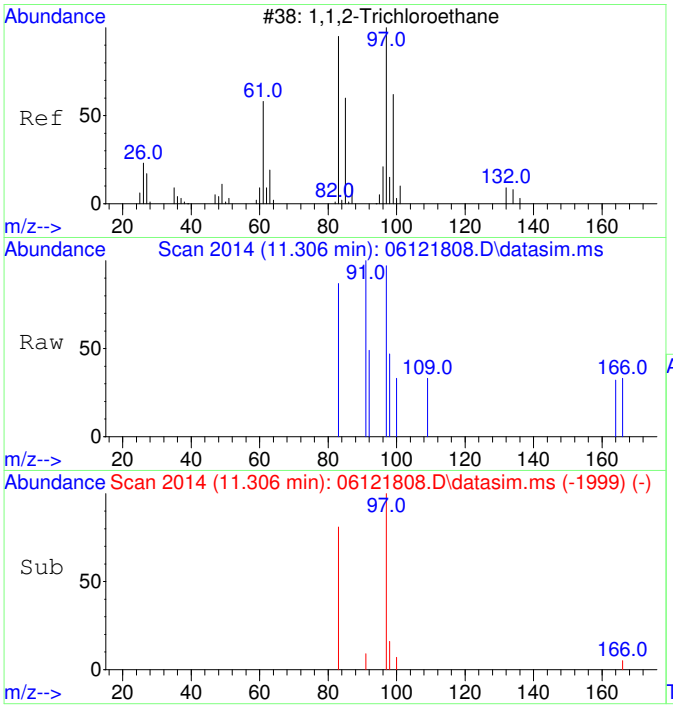


#13
Toluene
Concen: 64.13 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1260

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

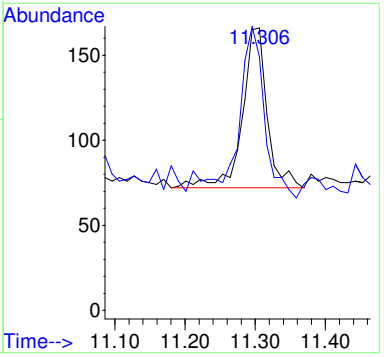


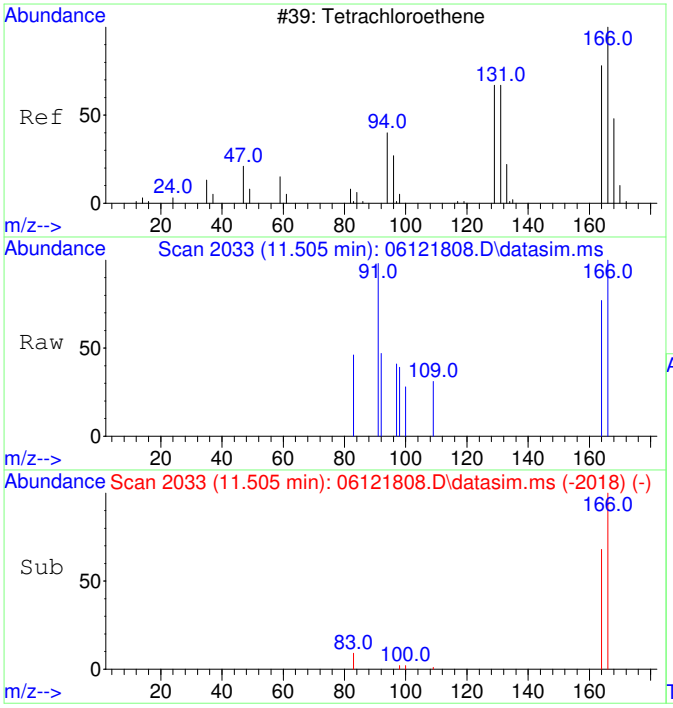


#14
1,1,2-Trichloroethane
Concen: 57.13 ug/L
RT: 11.306 min Scan# 2014
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 232

Ion	Ratio	Lower	Upper
97	100		
83	103.9	53.4	113.4

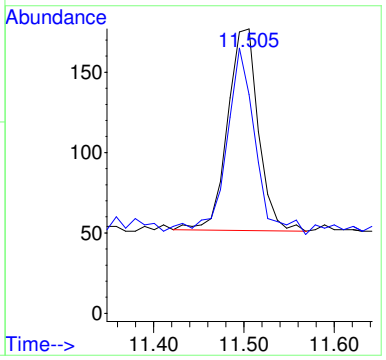


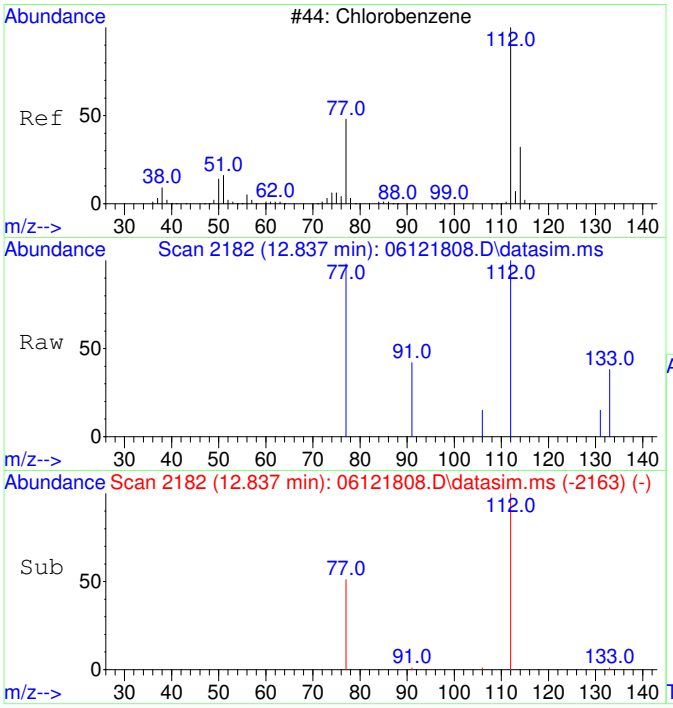


#15
Tetrachloroethene
Concen: 53.83 ug/L
RT: 11.505 min Scan# 2033
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:166 Resp: 298

Ion	Ratio	Lower	Upper
166	100		
164	88.3	47.8	107.8

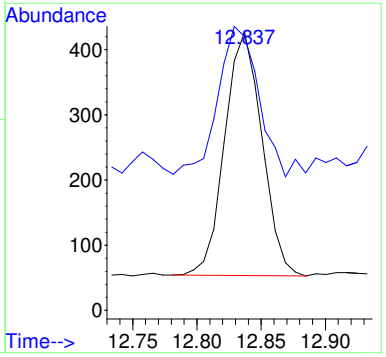


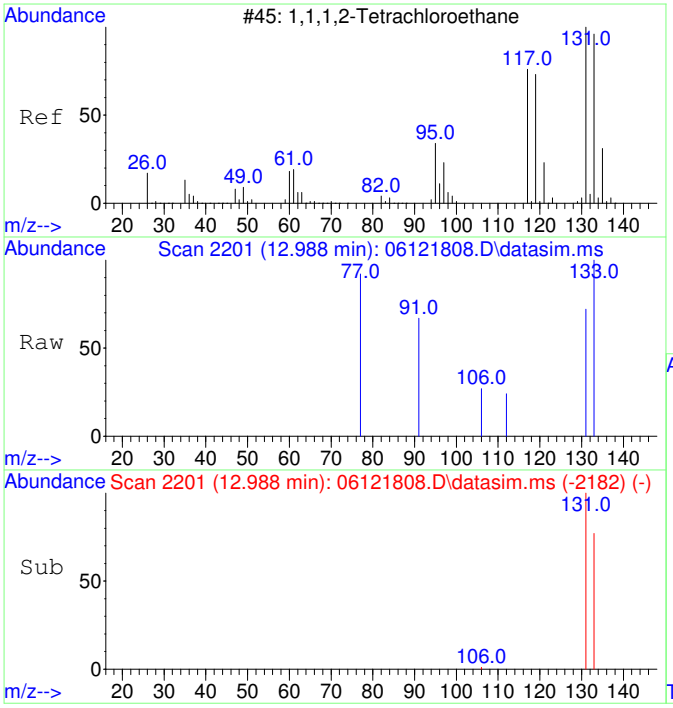


#16
Chlorobenzene
Concen: 53.55 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:112 Resp: 751

Ion	Ratio	Lower	Upper
112	100		
77	66.8	28.1	88.1

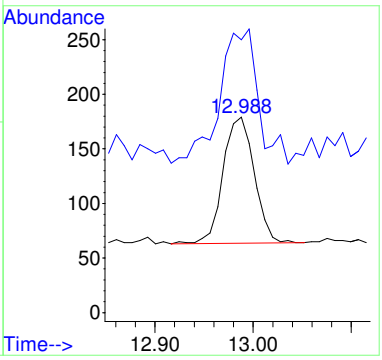


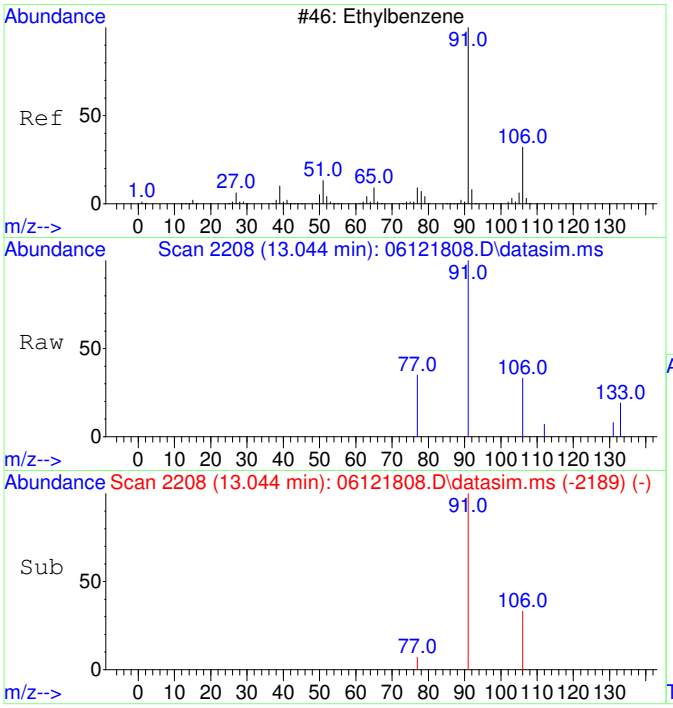


#17
1,1,1,2-Tetrachloroethane
Concen: 53.37 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:131 Resp: 254

Ion	Ratio	Lower	Upper
131	100		
133	130.7	66.2	126.2#

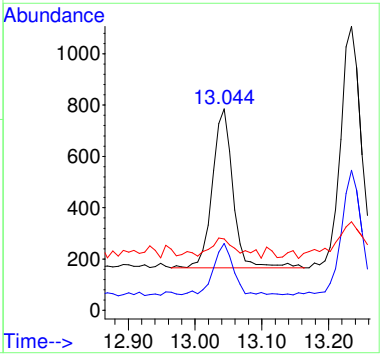


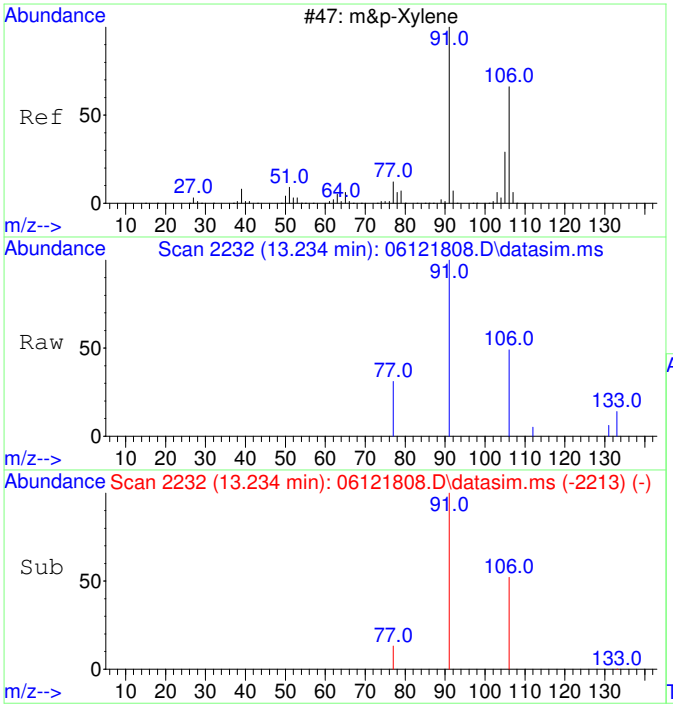


#18
Ethylbenzene
Concen: 55.98 ug/L
RT: 13.044 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

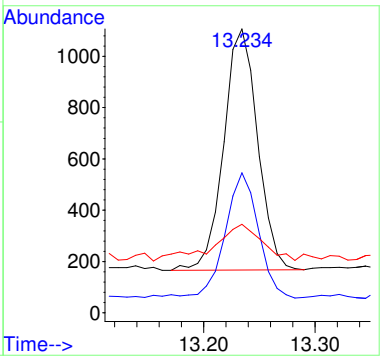


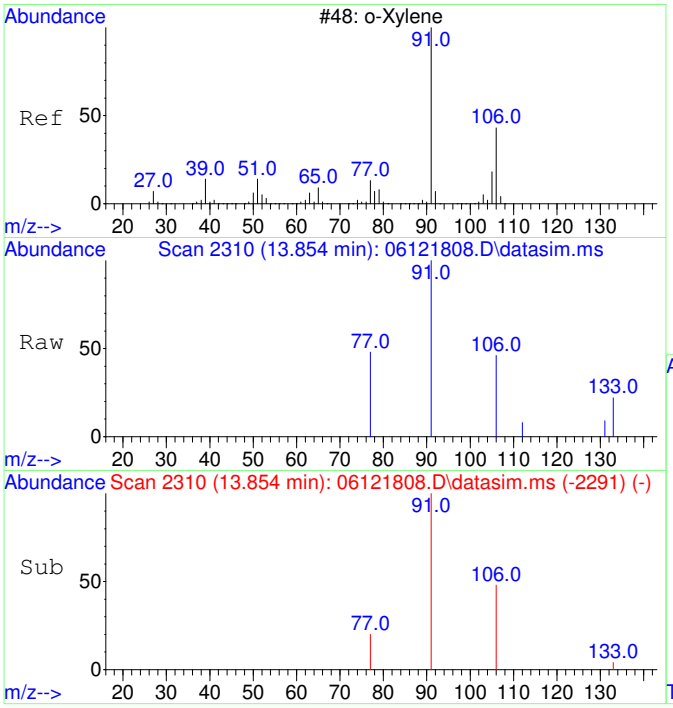


#19
m&p-Xylene
Concen: 109.24 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

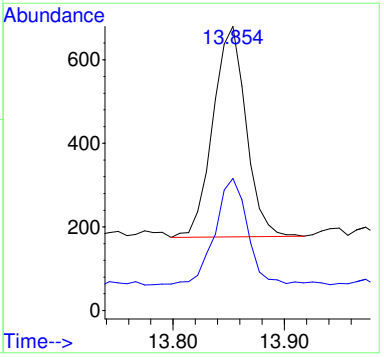


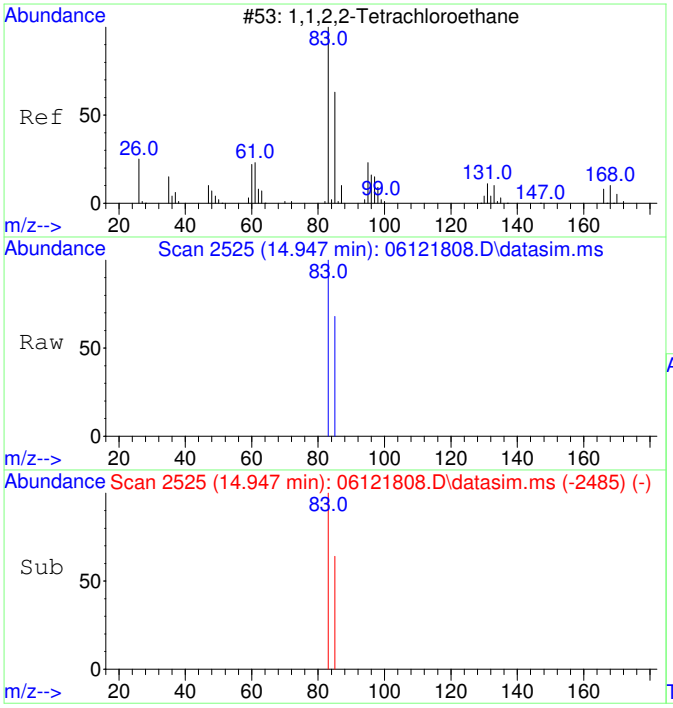


#20
o-Xylene
Concen: 53.86 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1038

Ion	Ratio	Lower	Upper
91	100		
106	50.4	18.3	78.3

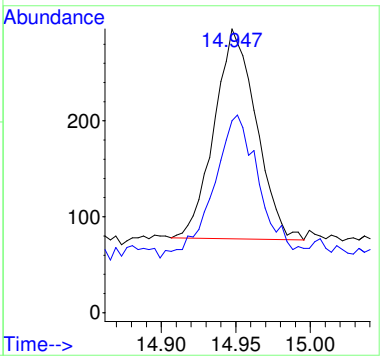


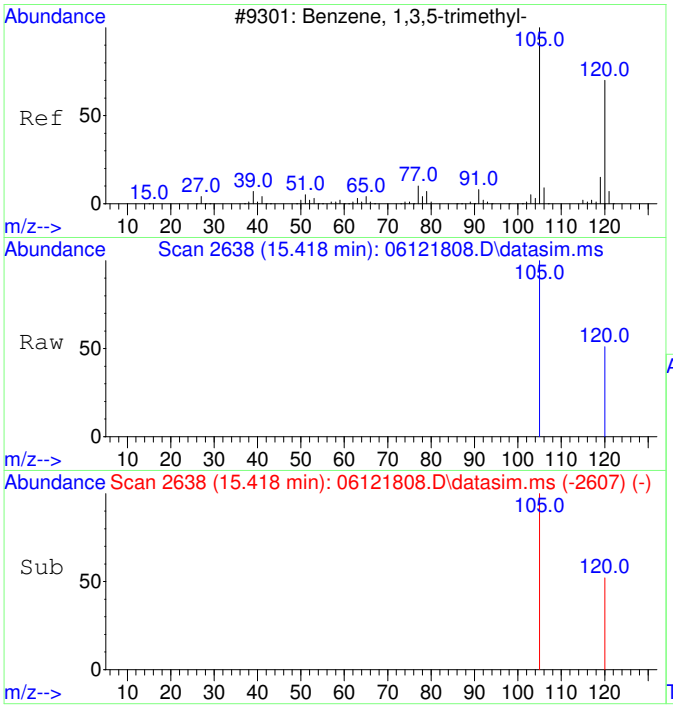


#21
1,1,2,2-Tetrachloroethane
Concen: 51.56 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.003 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 428

Ion	Ratio	Lower	Upper
83	100		
85	75.0	34.4	94.4

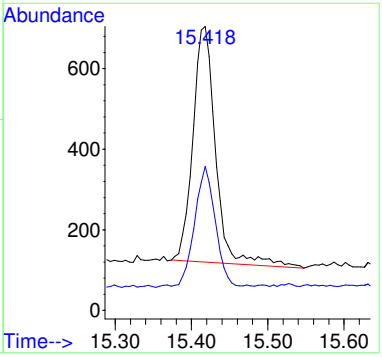


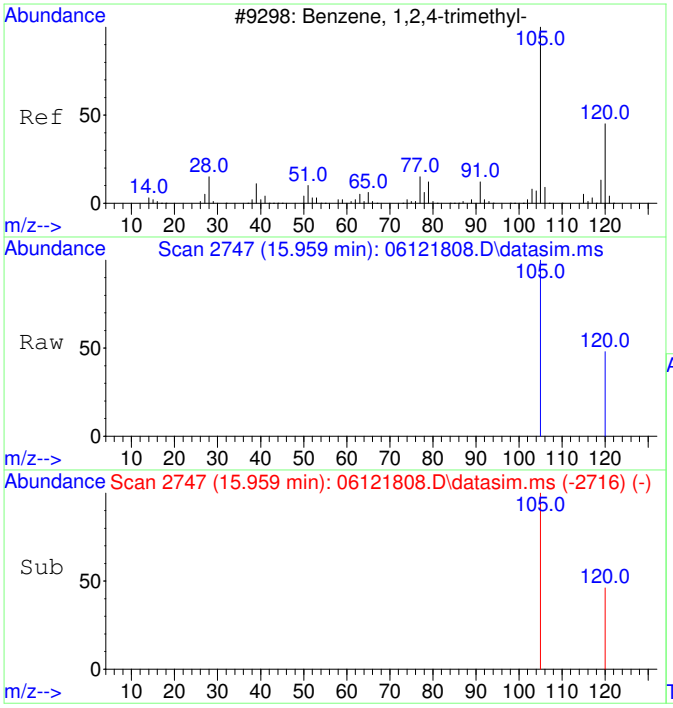


#22
1,3,5-Trimethylbenzene
Concen: 55.30 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1206

Ion	Ratio	Lower	Upper
105	100		
120	45.8	19.1	79.1

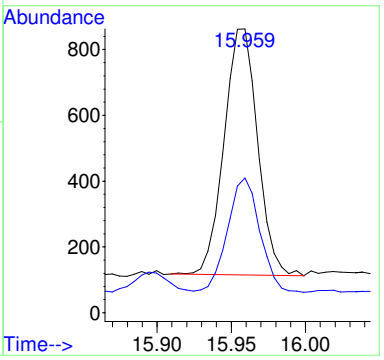


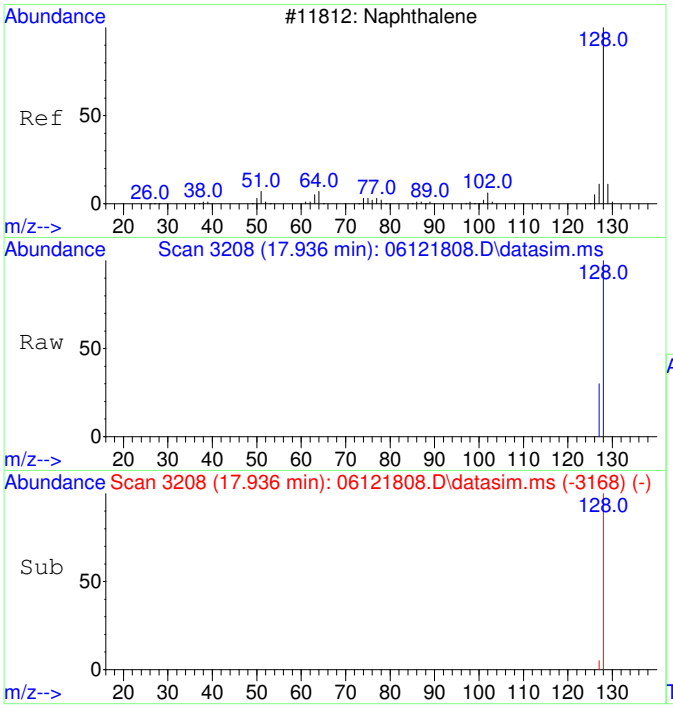


#23
1,2,4-Trimethylbenzene
Concen: 53.87 ug/L
RT: 15.959 min Scan# 2747
Delta R.T. 0.004 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1175

Ion	Ratio	Lower	Upper
105	100		
120	44.3	15.5	75.5

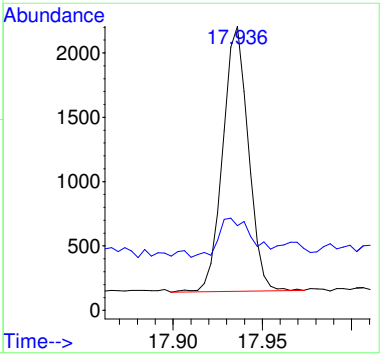


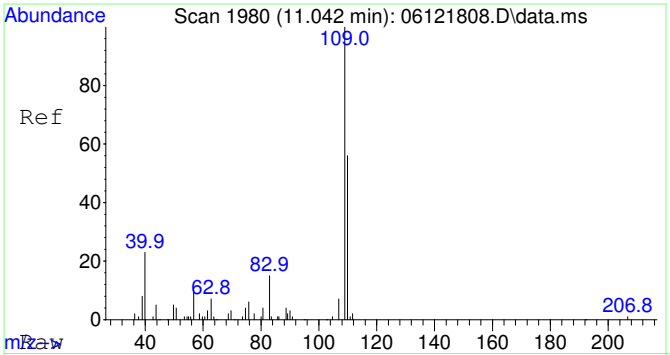


#24
Naphthalene
Concen: 57.15 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:128 Resp: 2046

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	42.5

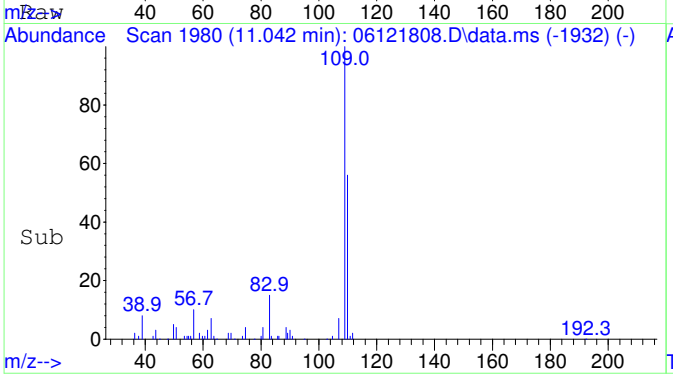


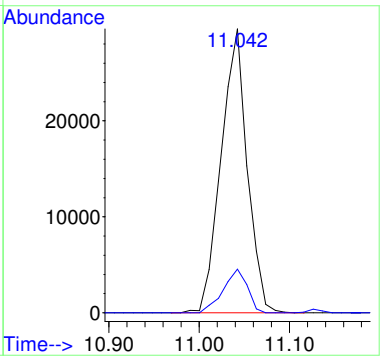


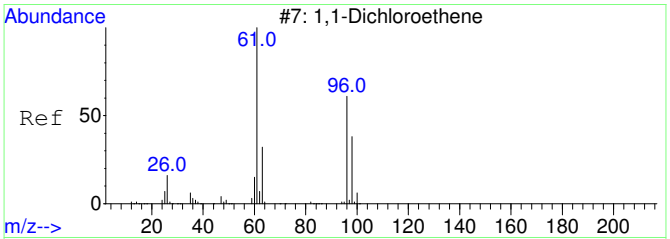
#25
2-Fluorotoluene SCAN
Concen: 5683.26 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:109 Resp: 59747

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	45.7



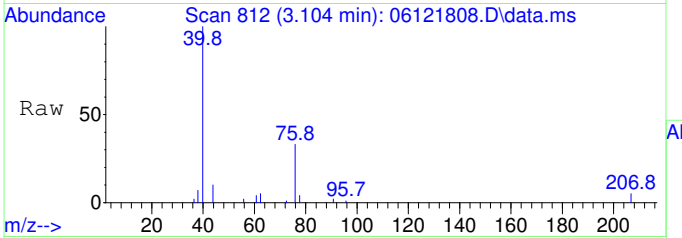


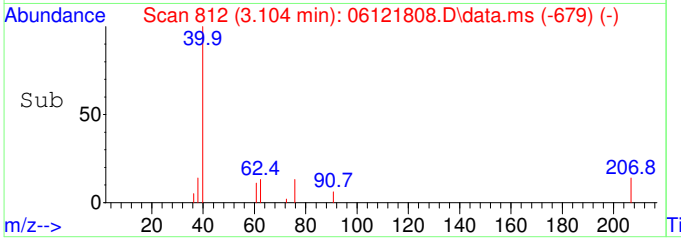


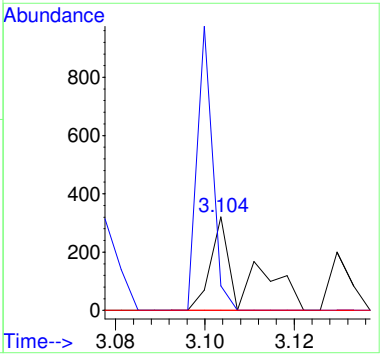
#26
1,1-Dichloroethene SCAN
Concen: 65.95 ug/L
RT: 3.104 min Scan# 812
Delta R.T. -0.007 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

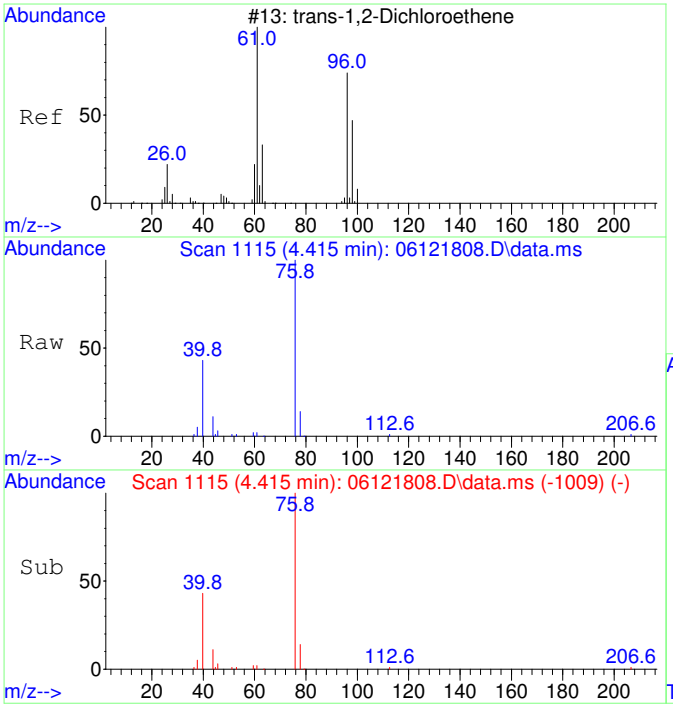
Tgt Ion: 61 Resp: 173

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





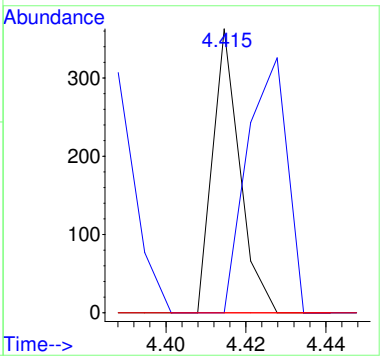


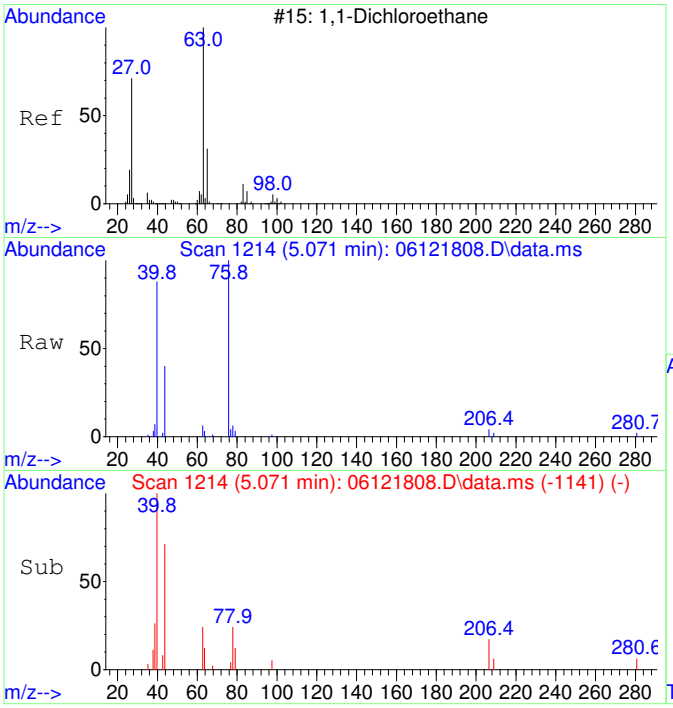


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.99 ug/L
RT: 4.415 min Scan# 1115
Delta R.T. 0.080 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

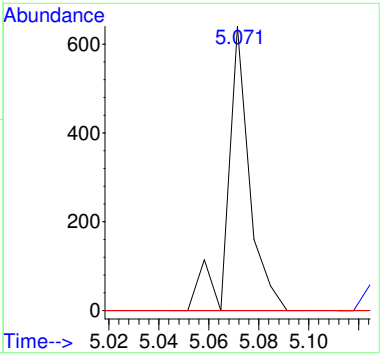


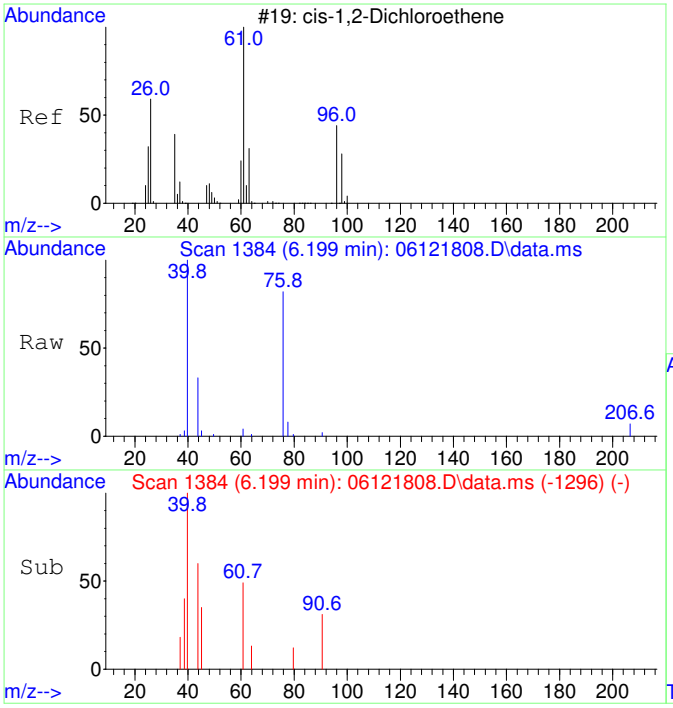


#28
1,1-Dichloroethane SCAN
Concen: 99.35 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. -0.013 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

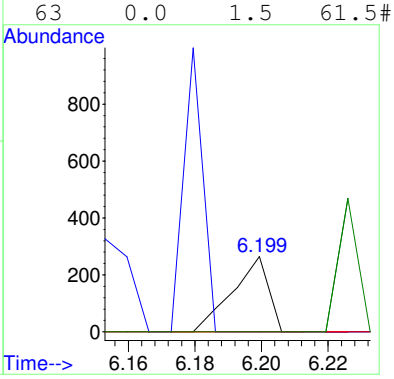


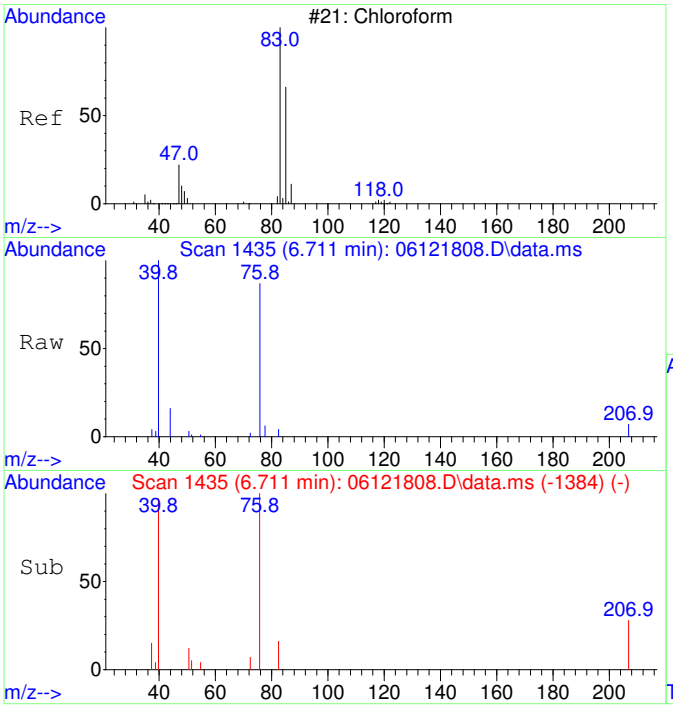


#29
cis-1,2-Dichloroethene SCAN
Concen: 59.52 ug/L
RT: 6.199 min Scan# 1384
Delta R.T. 0.086 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

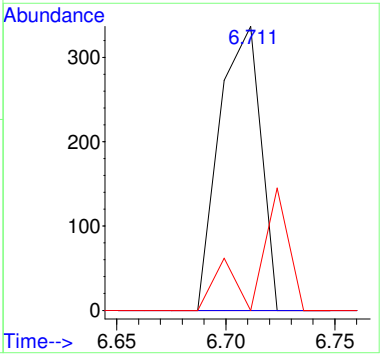


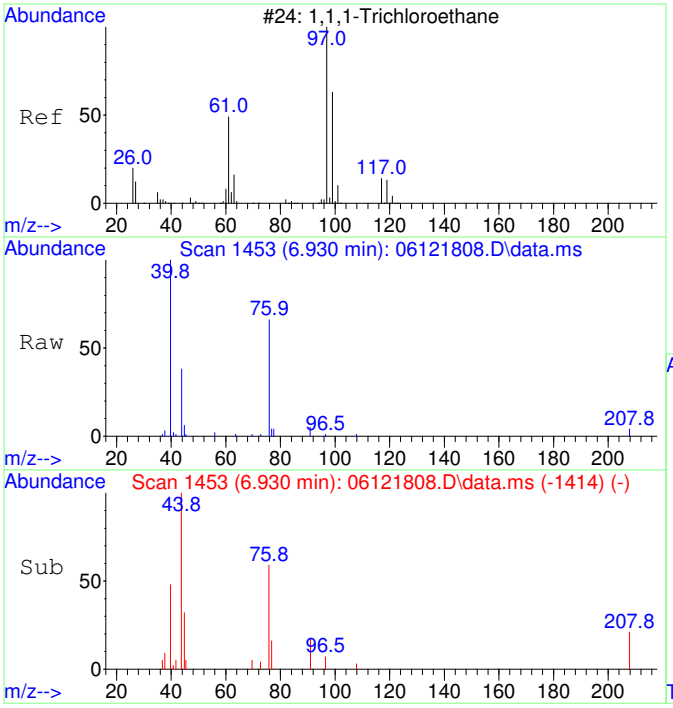


#30
Chloroform SCAN
Concen: 107.89 ug/L
RT: 6.711 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

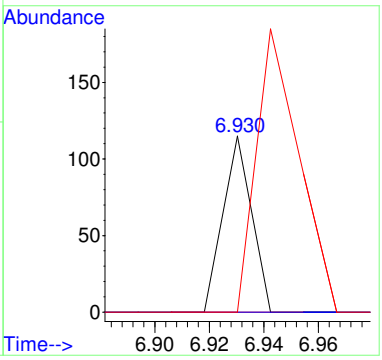


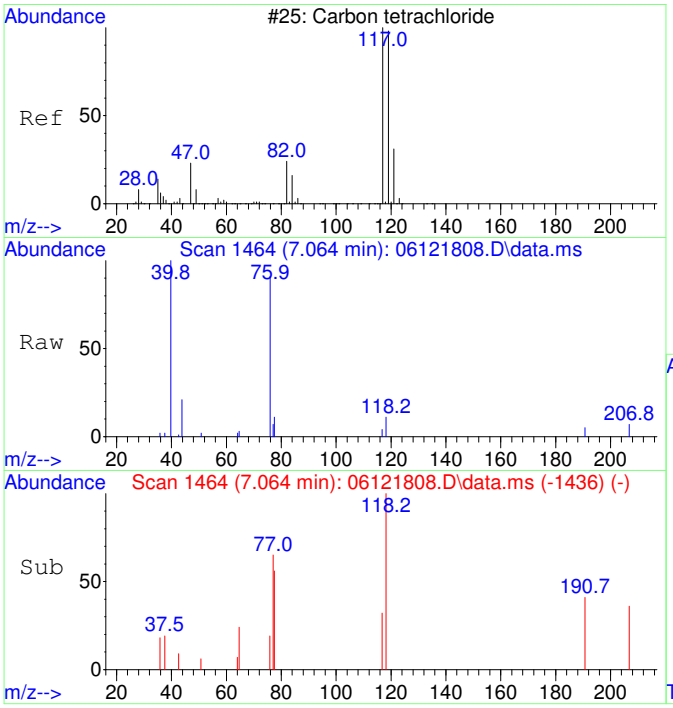


#31
1,1,1-Trichloroethane SCAN
Concen: 22.88 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. -0.024 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

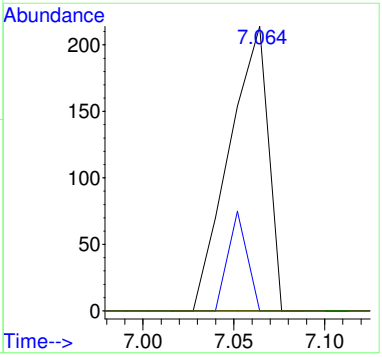


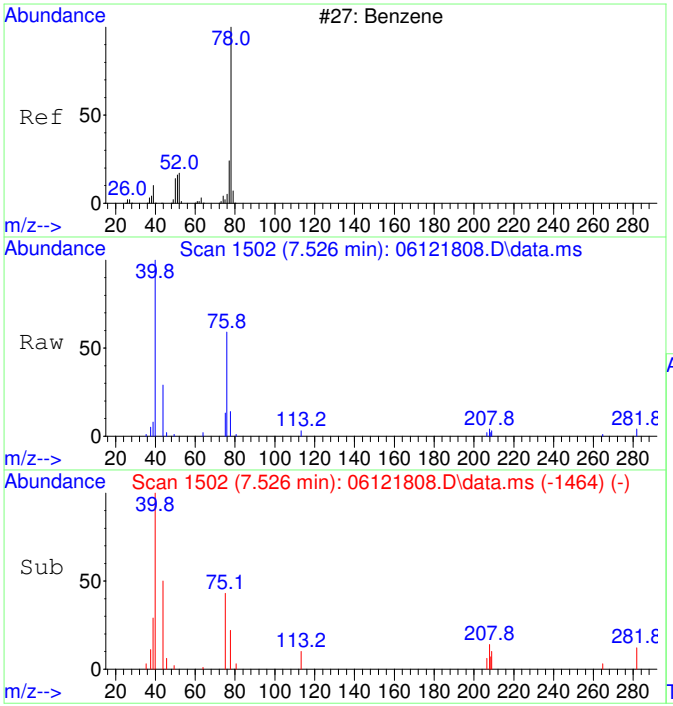


#32
Carbon tetrachloride SCAN
Concen: 88.46 ug/L
RT: 7.064 min Scan# 1464
Delta R.T. -0.158 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

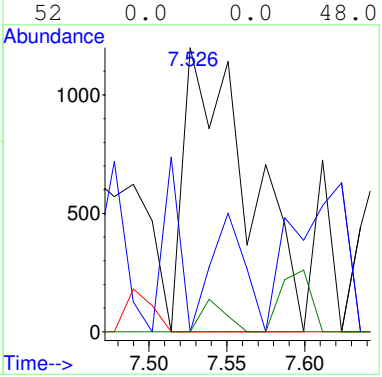


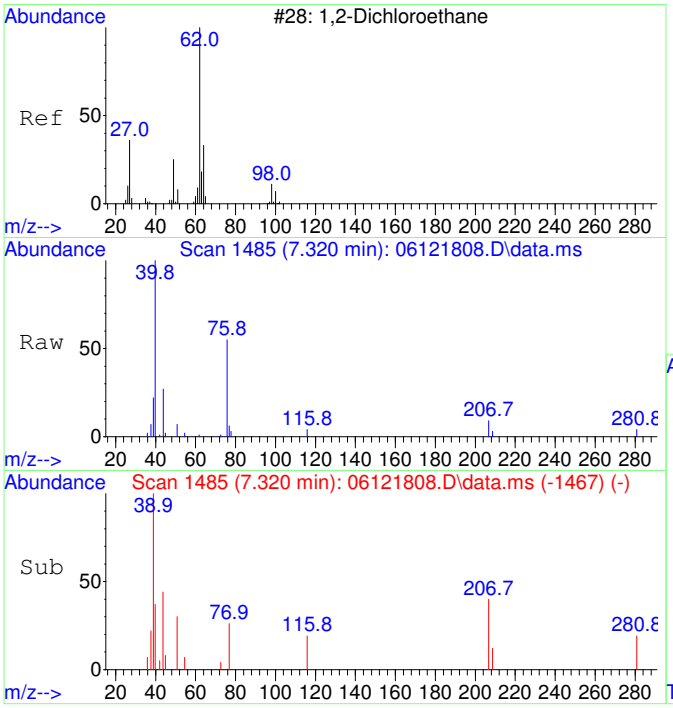


#33
Benzene SCAN
Concen: 314.93 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. -0.036 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

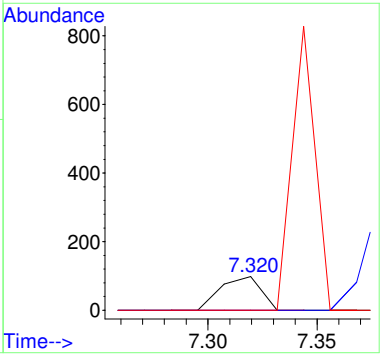


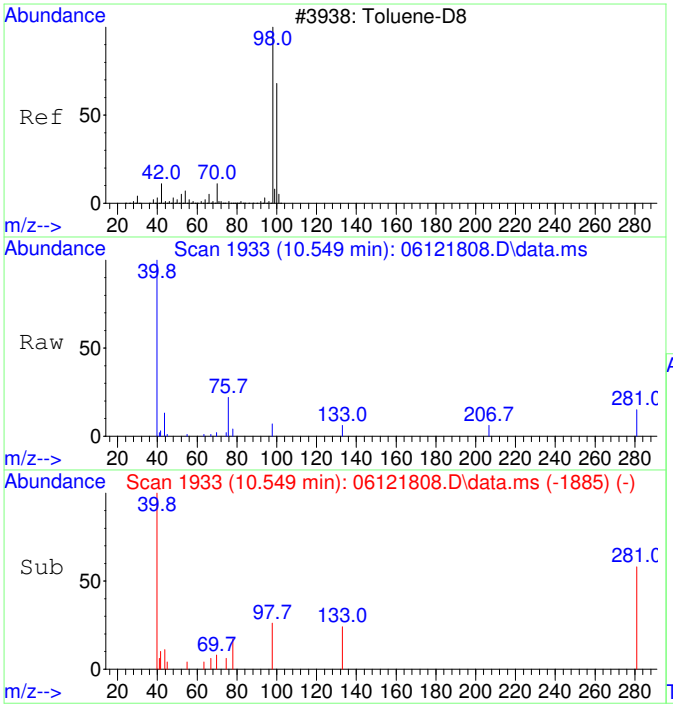


#34
1,2-Dichloroethane SCAN
Concen: 34.01 ug/L
RT: 7.320 min Scan# 1485
Delta R.T. -0.280 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

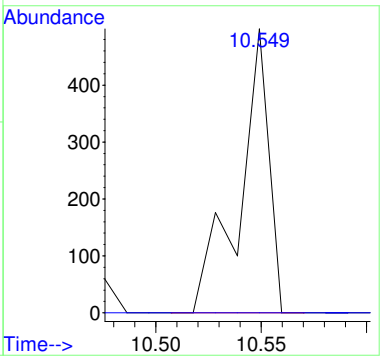


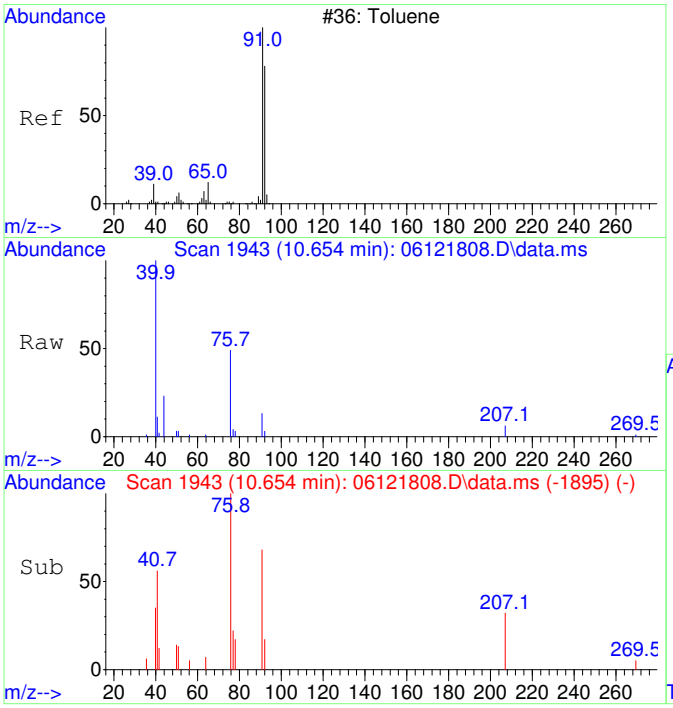


#36
Toluene-d8 SCAN
Concen: 51.35 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 98 Resp: 488

Ion	Ratio	Lower	Upper
98	100		
100	0.0	39.5	99.5#

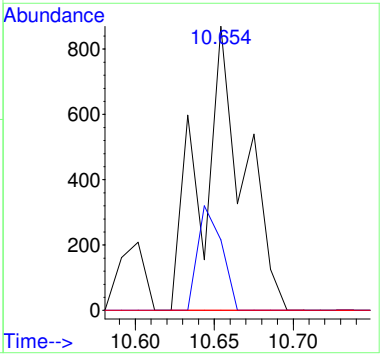


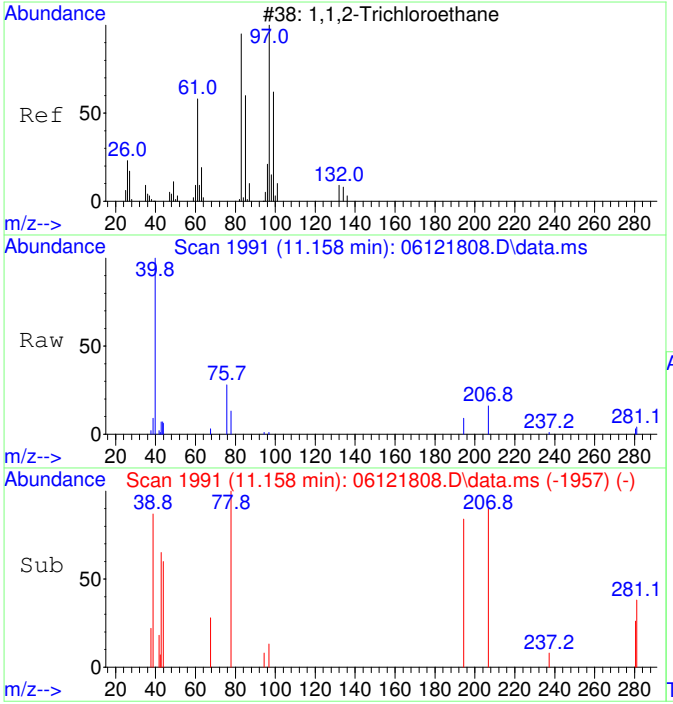


#37
Toluene SCAN
Concen: 135.67 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

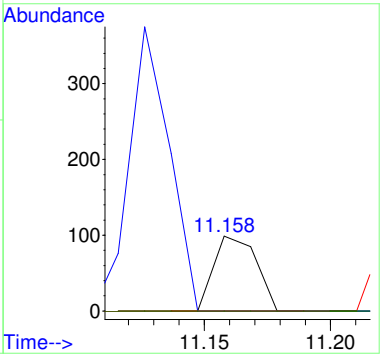


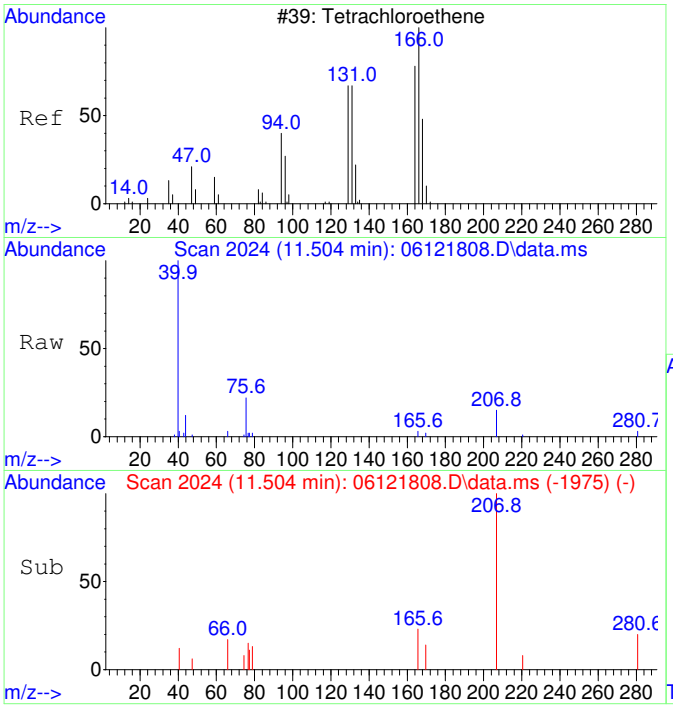


#38
1,1,2-Trichloroethane SCAN
Concen: 49.87 ug/L
RT: 11.158 min Scan# 1991
Delta R.T. -0.147 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

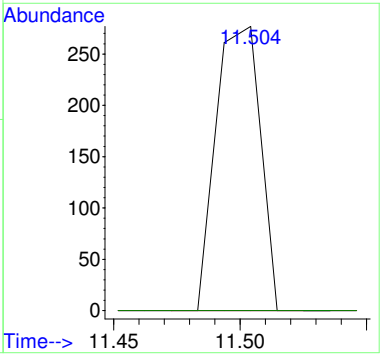


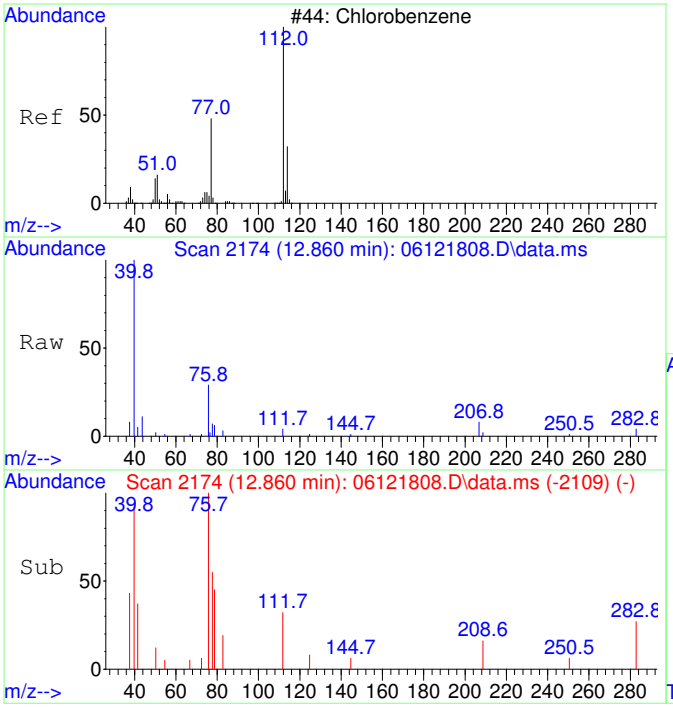


#39
Tetrachloroethene SCAN
Concen: 127.26 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

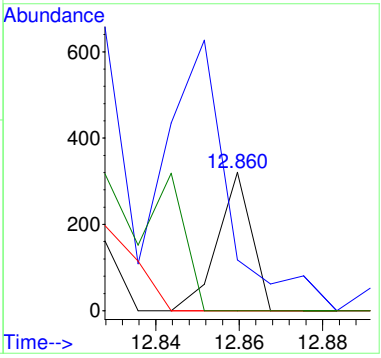


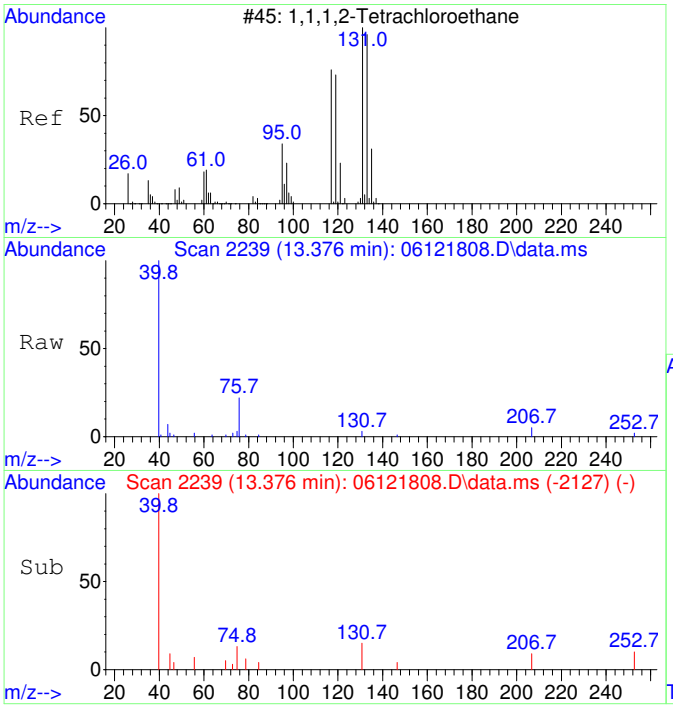


#40
Chlorobenzene SCAN
Concen: 24.71 ug/L
RT: 12.860 min Scan# 2174
Delta R.T. 0.016 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

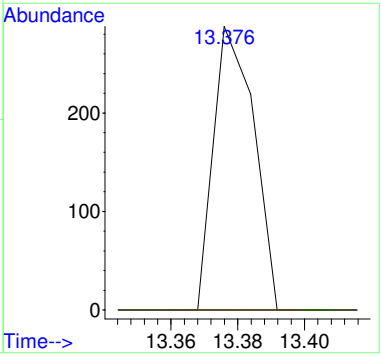


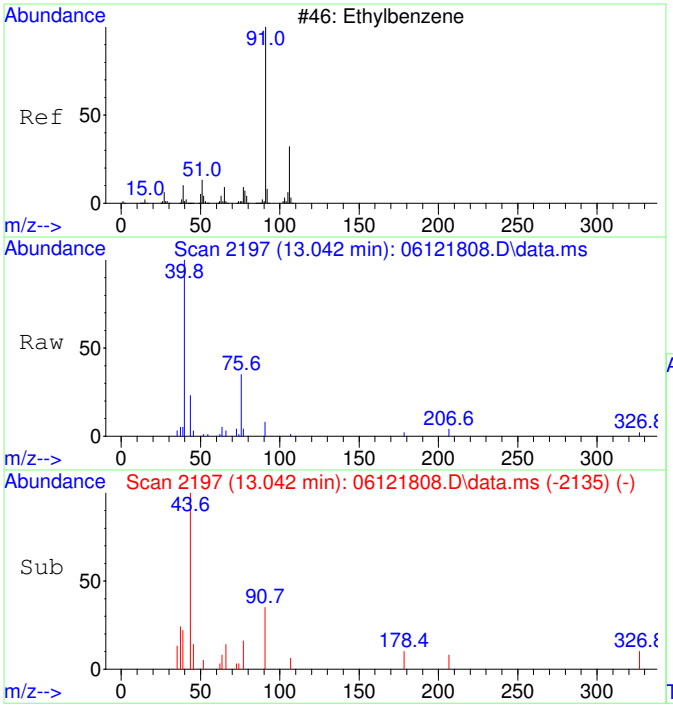


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 92.06 ug/L
RT: 13.376 min Scan# 2239
Delta R.T. 0.389 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

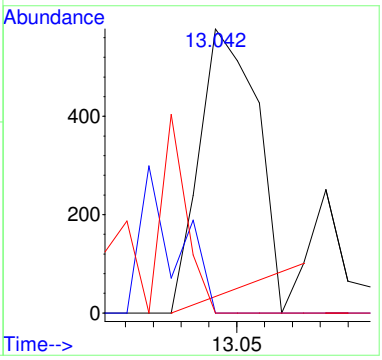


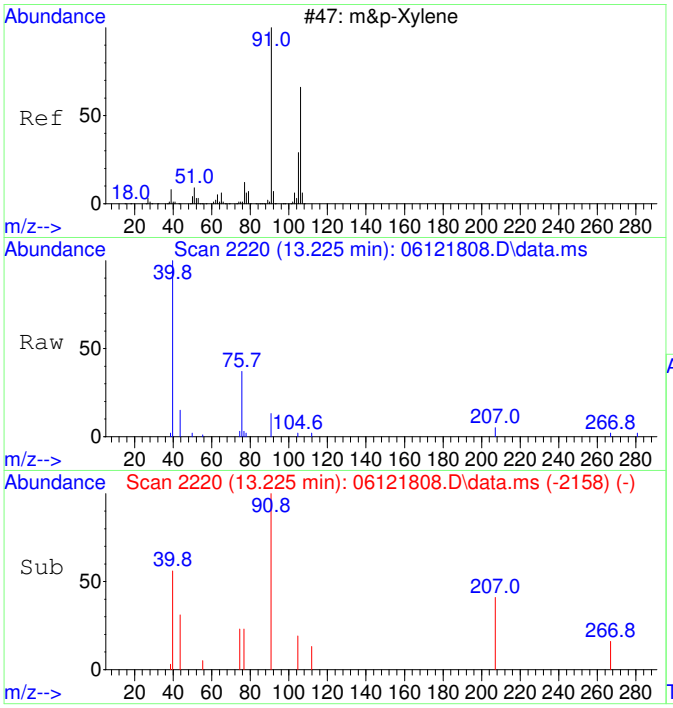


#42
Ethylbenzene SCAN
Concen: 52.51 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

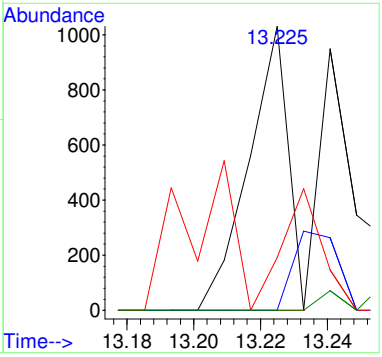


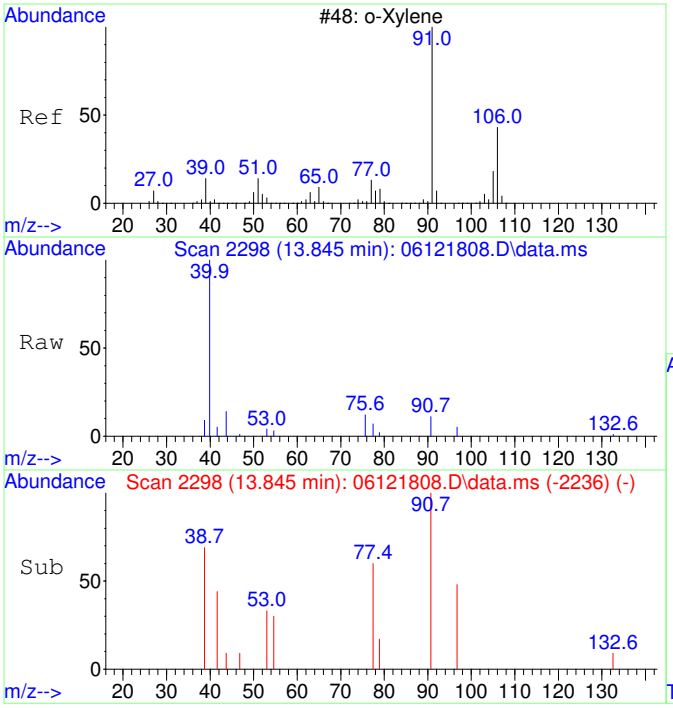


#43
m&p-Xylene SCAN
Concen: 43.14 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

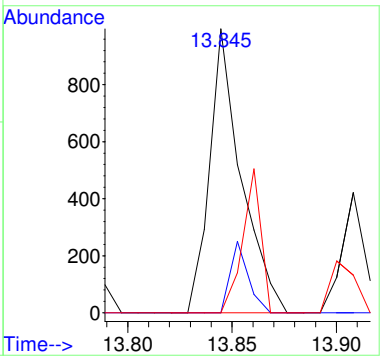


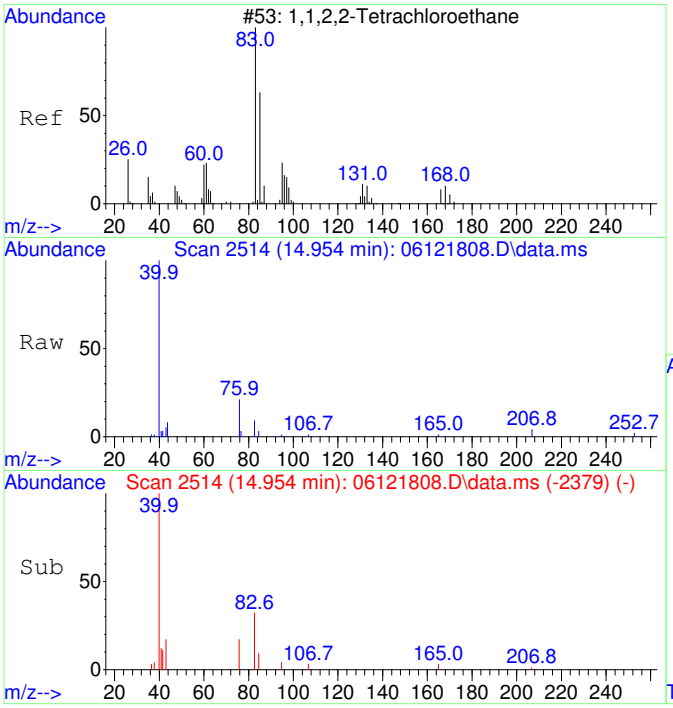


#44
o-Xylene SCAN
Concen: 94.19 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

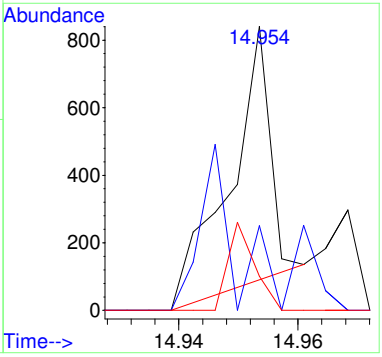


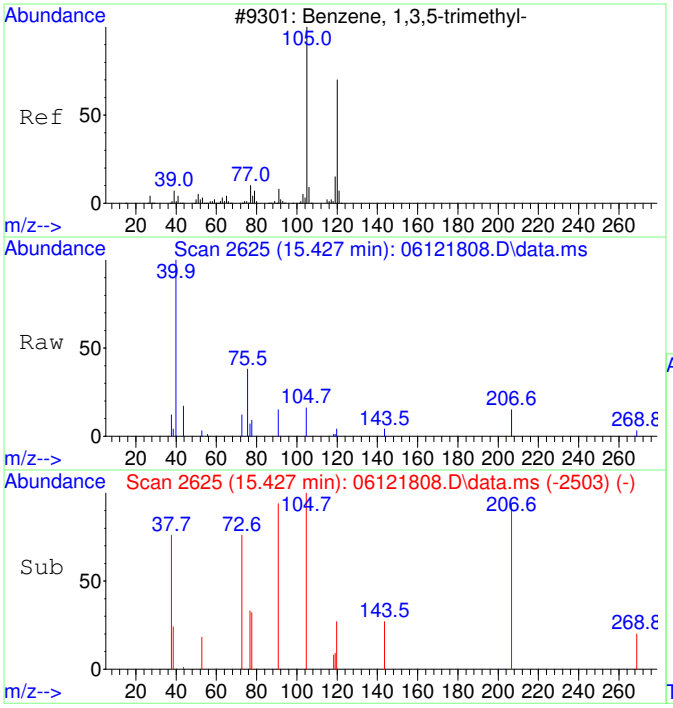


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 68.13 ug/L
RT: 14.954 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

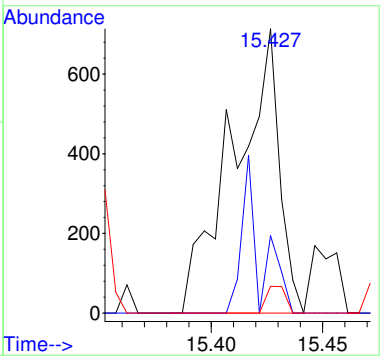


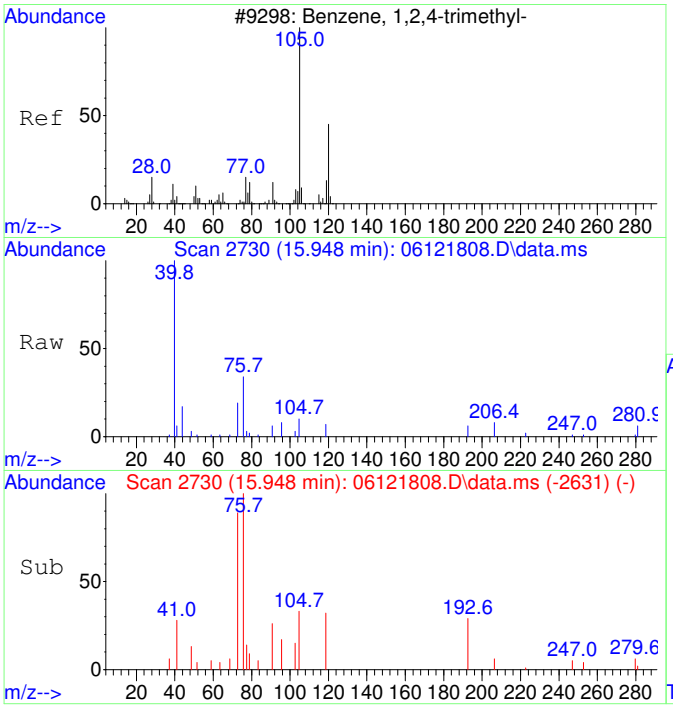


#46
1,3,5-Trimethylbenzene SCAN
Concen: 92.46 ug/L
RT: 15.427 min Scan# 2625
Delta R.T. 0.014 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

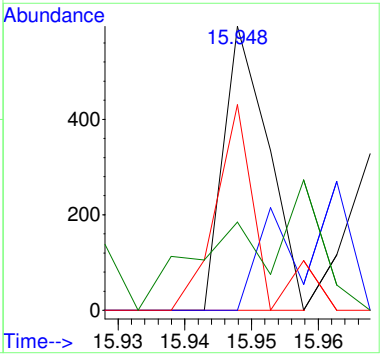


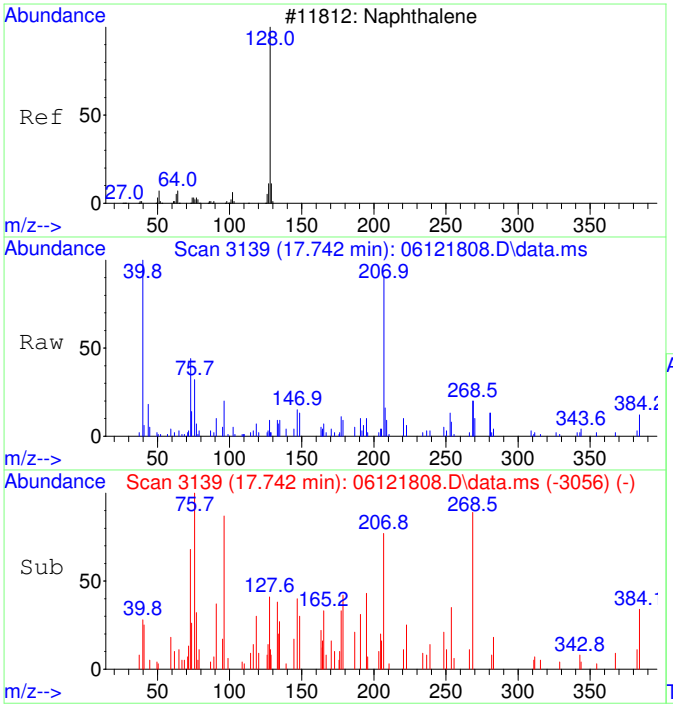


#47
1,2,4-Trimethylbenzene SCAN
Concen: 24.45 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. -0.006 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

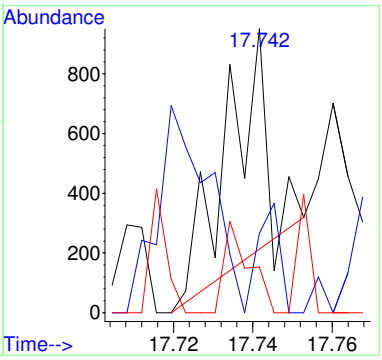


Table of Contents

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

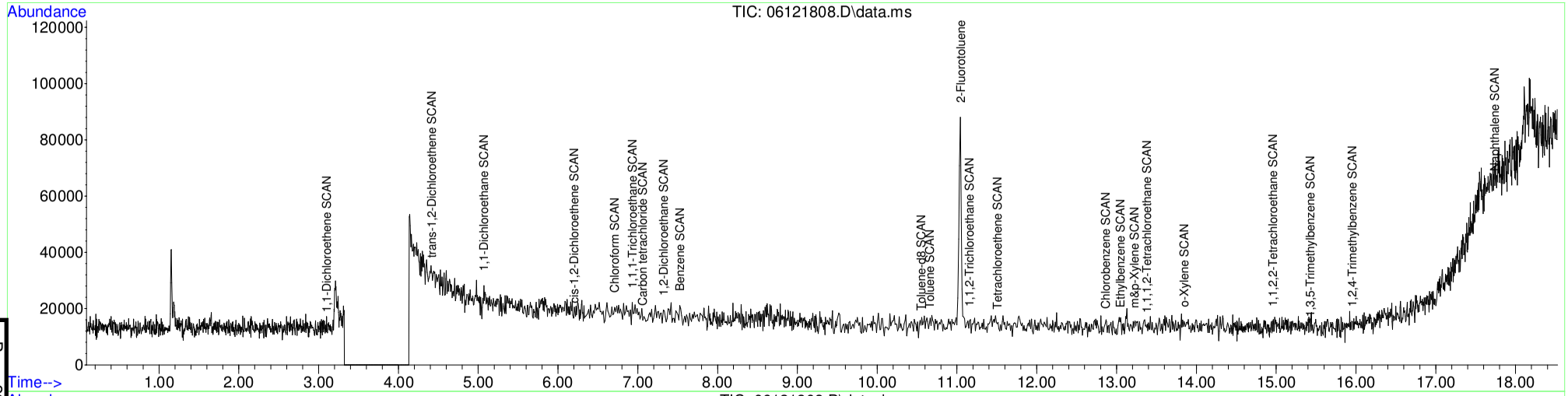
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	90218	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	746	50.91 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.02%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	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

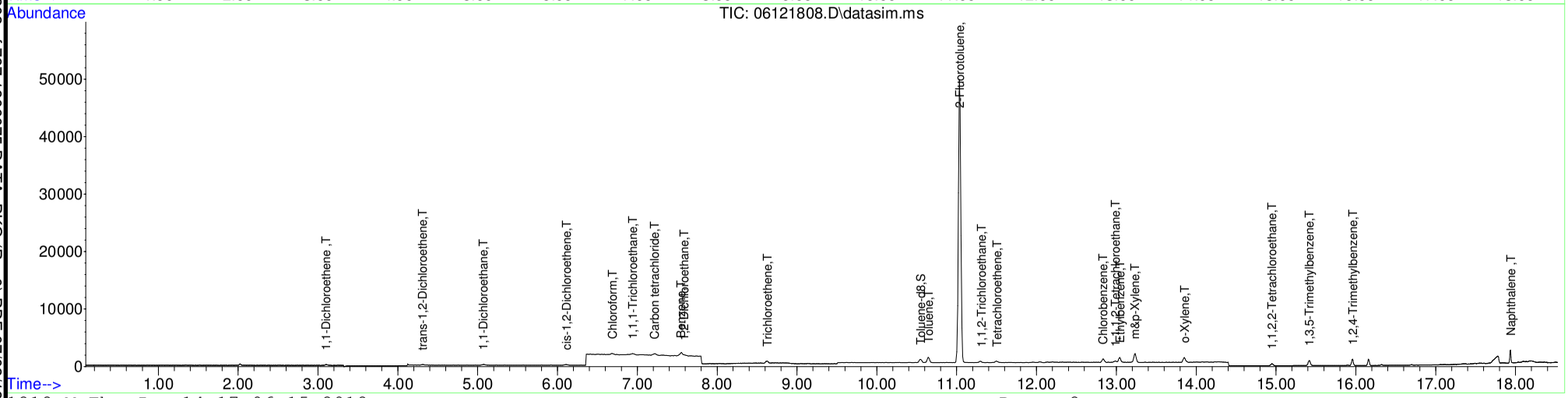
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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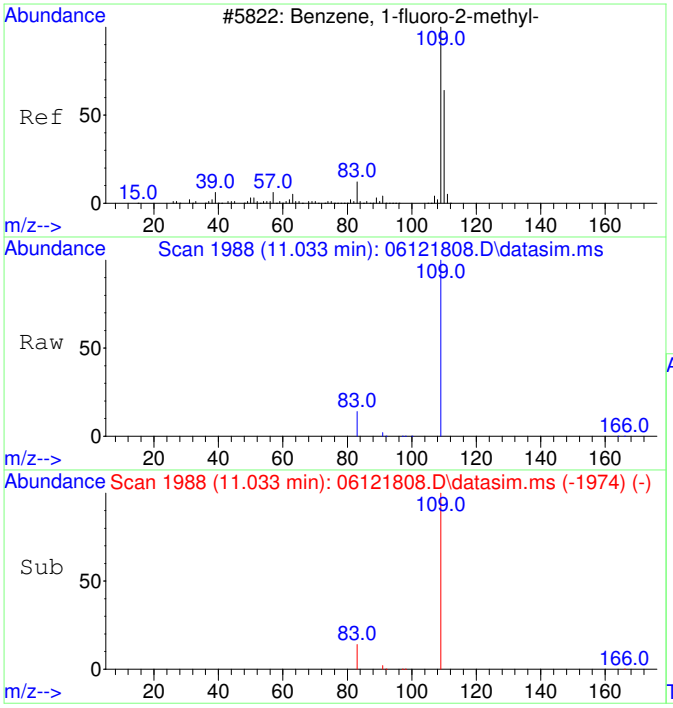
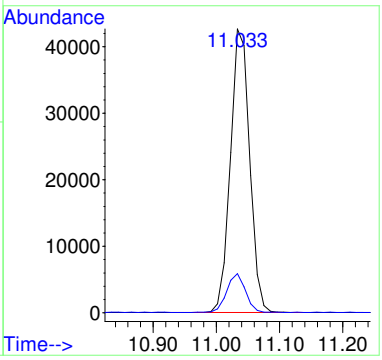
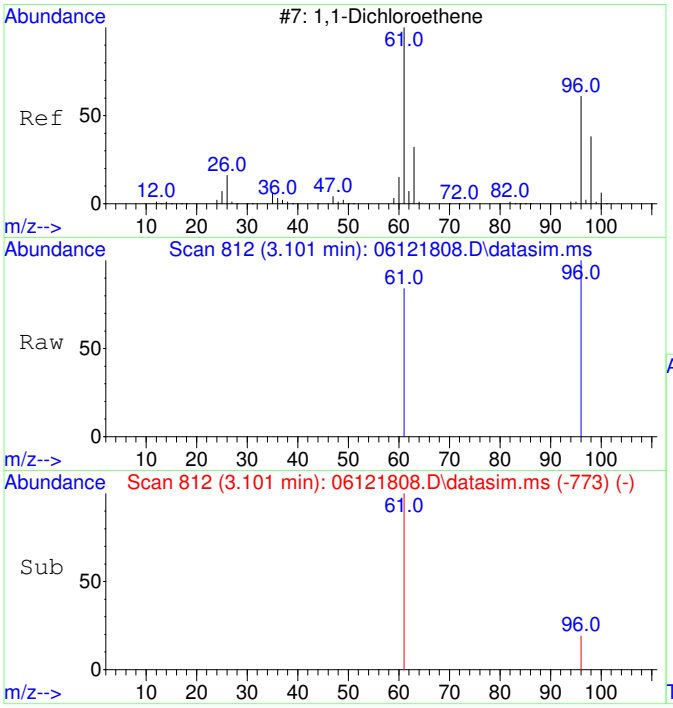


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:109 Resp: 90218

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	44.7

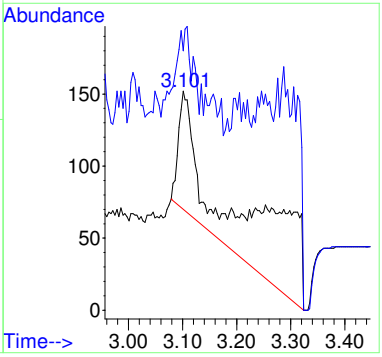




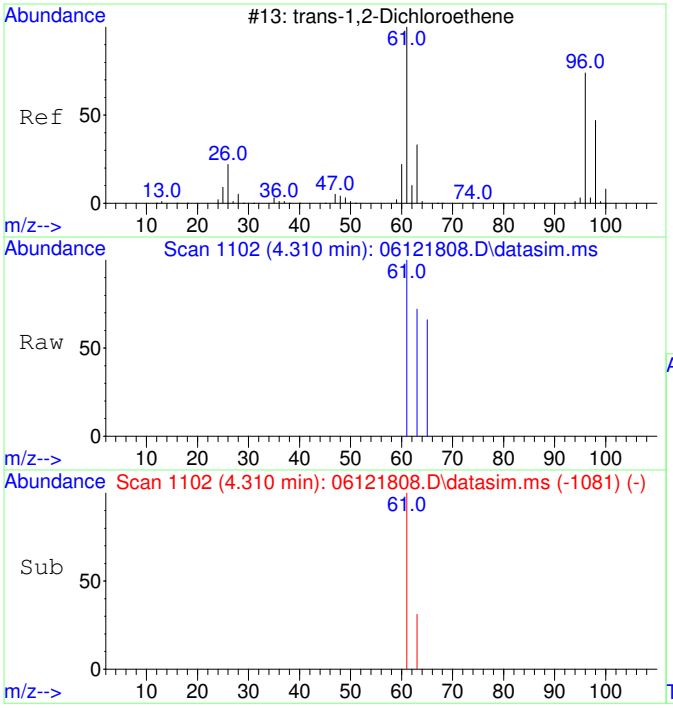
#2
1,1-Dichloroethene
Concen: 147.16 ug/L
RT: 3.101 min Scan# 812
Delta R.T. -0.003 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 568

Ion	Ratio	Lower	Upper
61	100		
96	19.9	28.7	88.7#



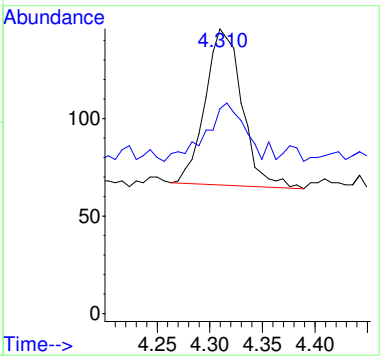
Before MI:
IMPROPER
BASELINE

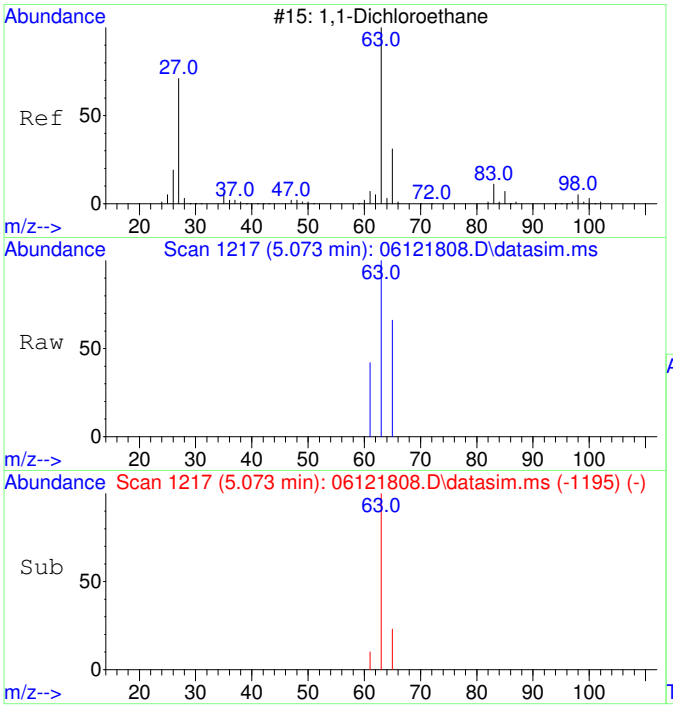


#3
trans-1,2-Dichloroethene
Concen: 48.09 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 194

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.0	62.0

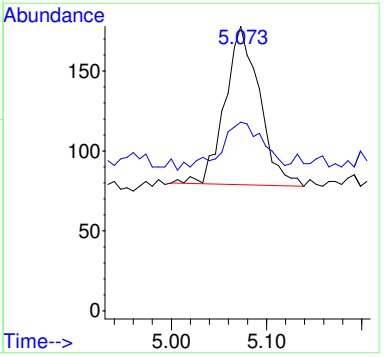


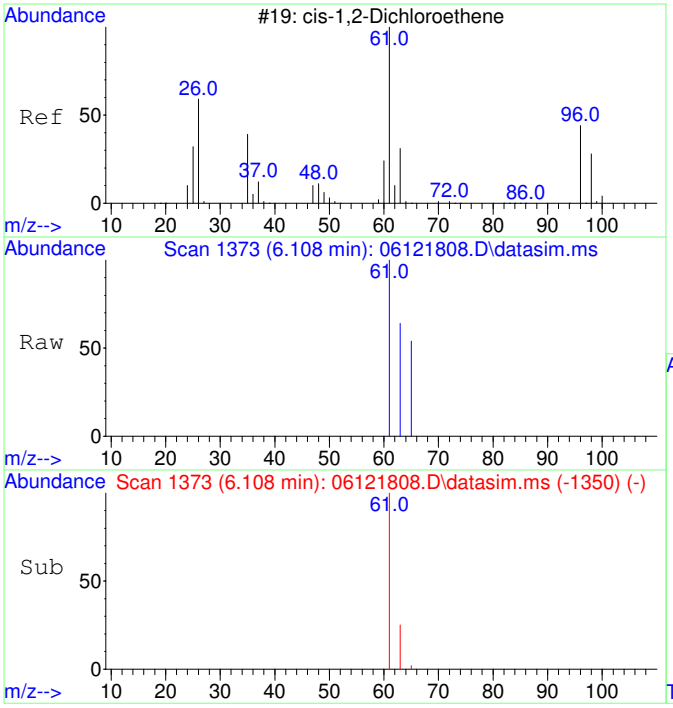


#4
1,1-Dichloroethane
Concen: 49.79 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. -0.006 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 63 Resp: 250

Ion	Ratio	Lower	Upper
63	100		
65	37.6	1.5	61.5

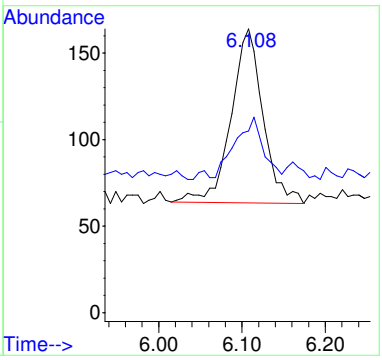


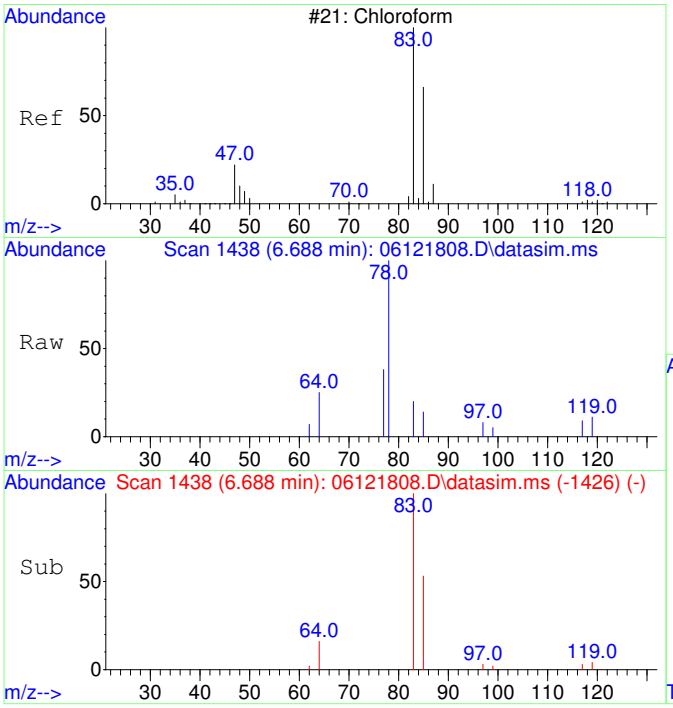


#5
cis-1,2-Dichloroethene
Concen: 53.90 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 61 Resp: 267

Ion	Ratio	Lower	Upper
61	100		
63	30.0	2.2	62.2

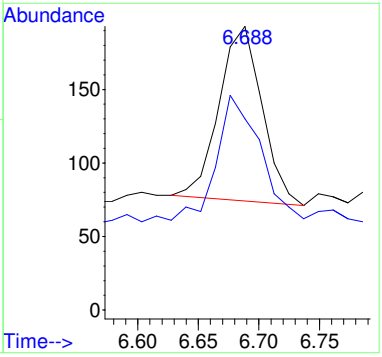


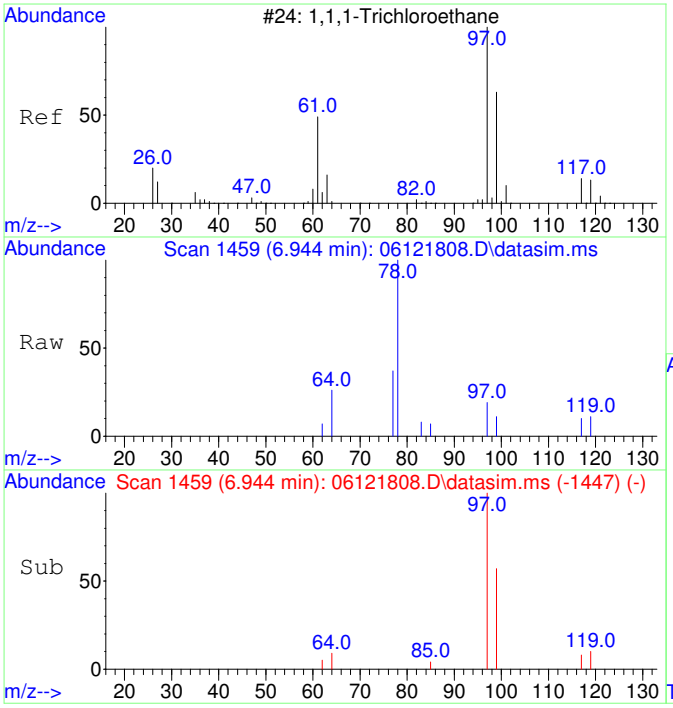


#6
Chloroform
Concen: 54.75 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 292

Ion	Ratio	Lower	Upper
83	100		
85	75.3	34.8	94.8

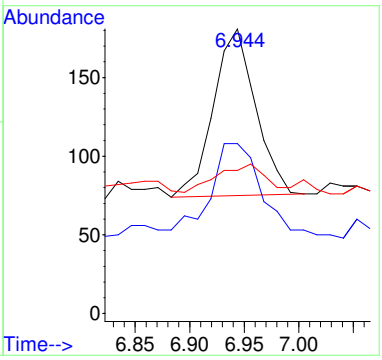


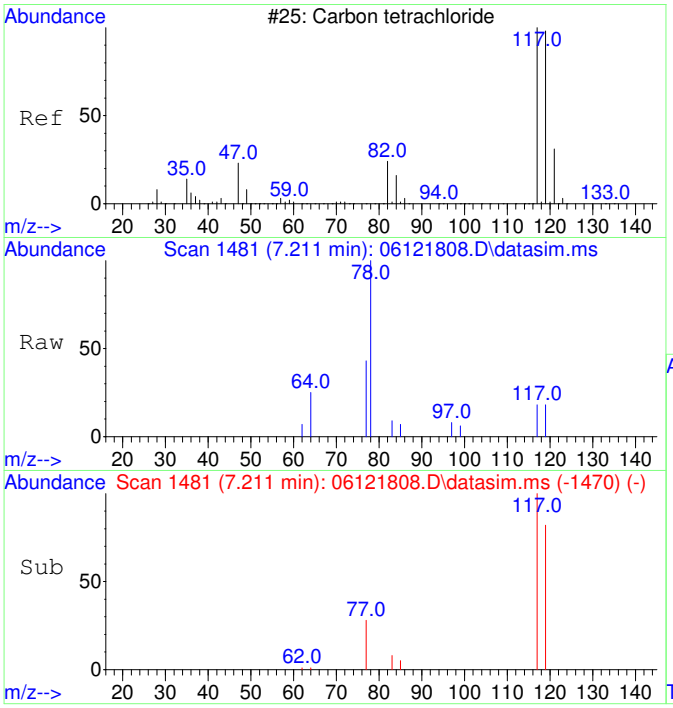


#7
1,1,1-Trichloroethane
Concen: 54.48 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

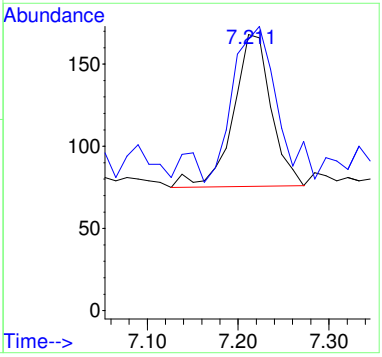


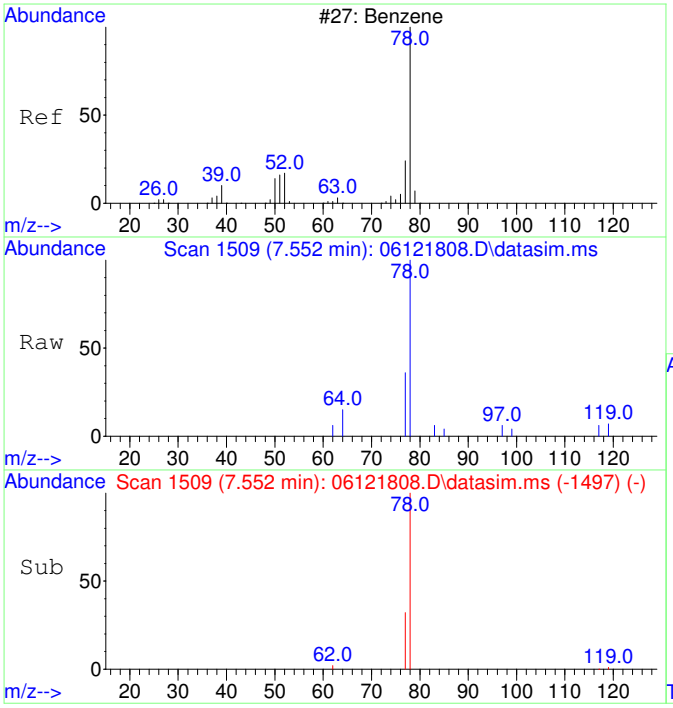


#8
Carbon tetrachloride
Concen: 53.89 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:117 Resp: 268

Ion	Ratio	Lower	Upper
117	100		
119	119.8	65.9	125.9

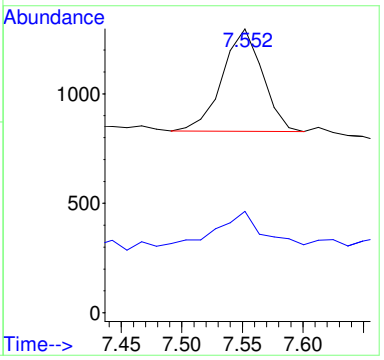


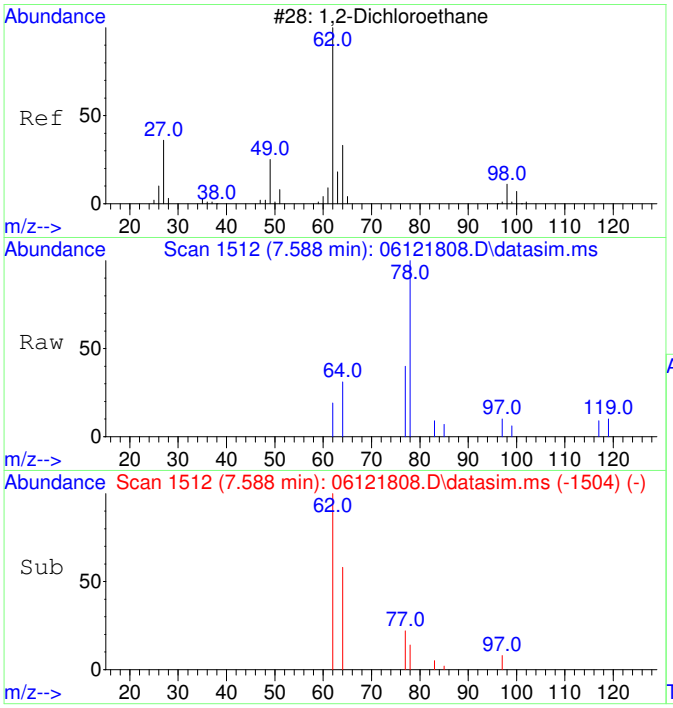


#9
Benzene
Concen: 74.63 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 78 Resp: 1081

Ion	Ratio	Lower	Upper
78	100		
77	53.6	0.0	53.0#

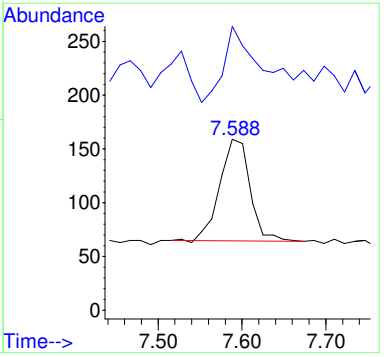


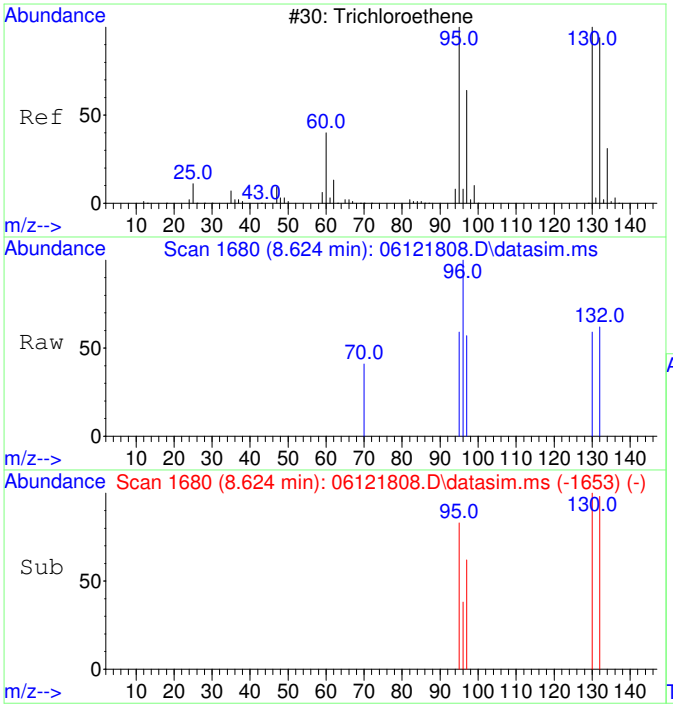


#10
1,2-Dichloroethane
Concen: 50.34 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 62 Resp: 235

Ion	Ratio	Lower	Upper
62	100		
64	97.0	2.3	62.3#

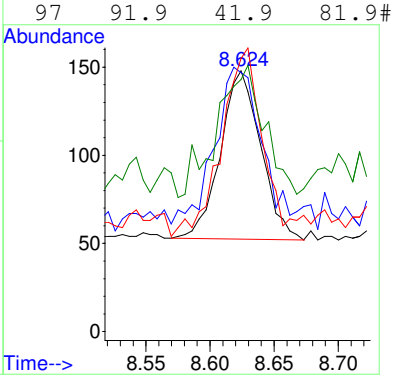


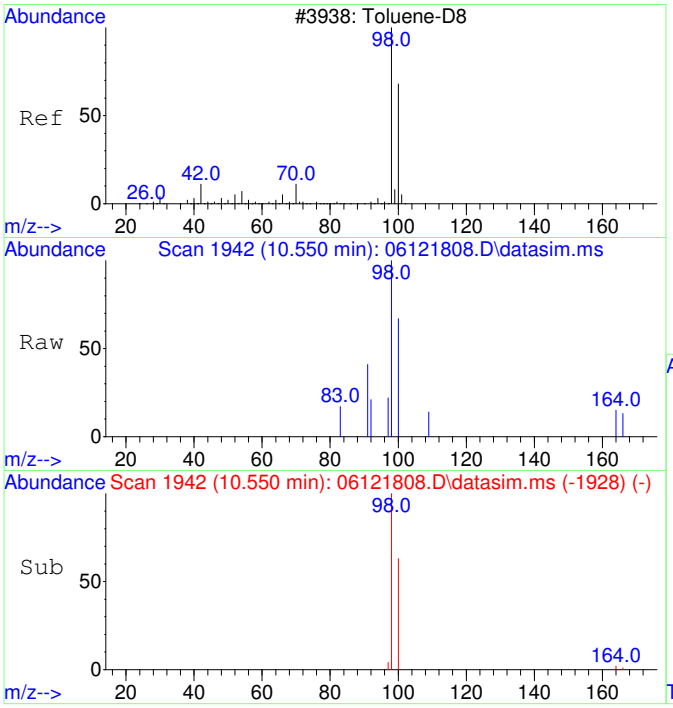


#11
Trichloroethene
Concen: 52.50 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

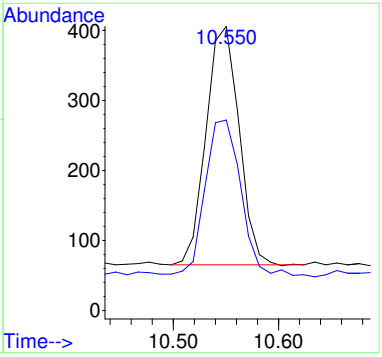


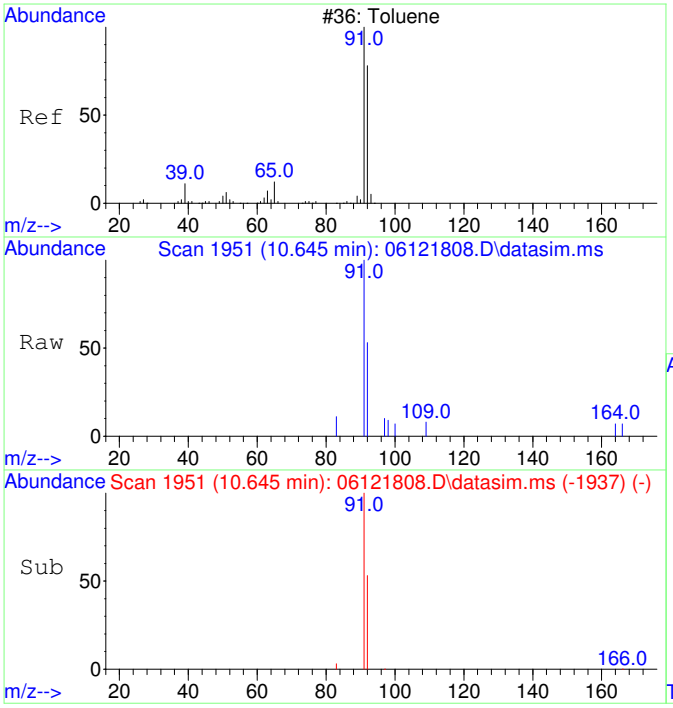


#12
Toluene-d8
Concen: 50.91 ug/L
RT: 10.550 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 98 Resp: 746

Ion	Ratio	Lower	Upper
98	100		
100	71.7	38.7	98.7

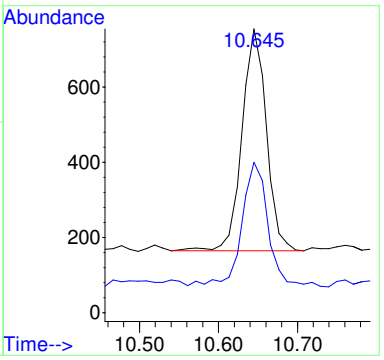


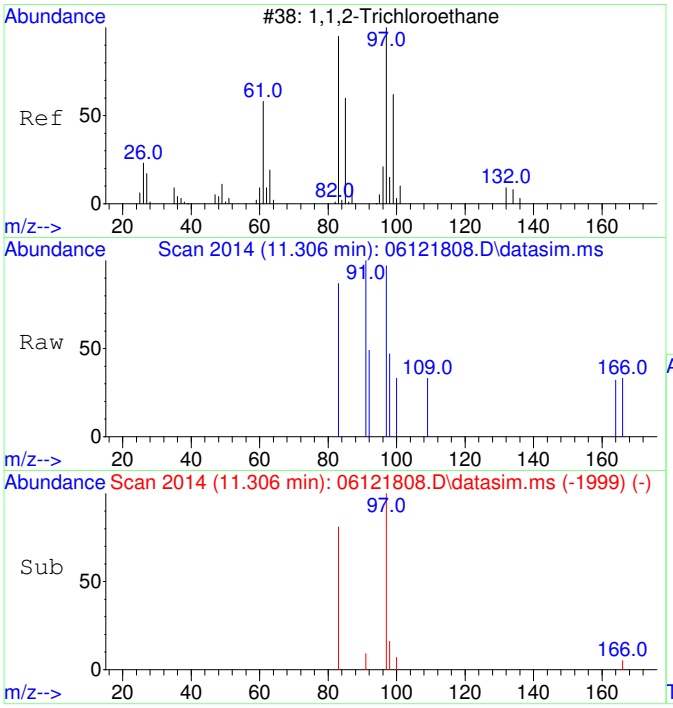


#13
Toluene
Concen: 64.13 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1260

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

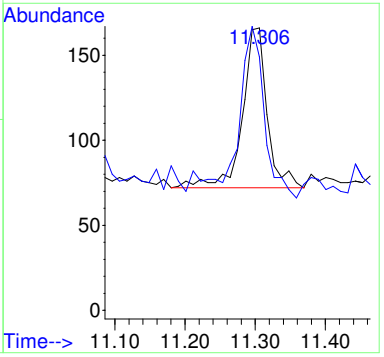


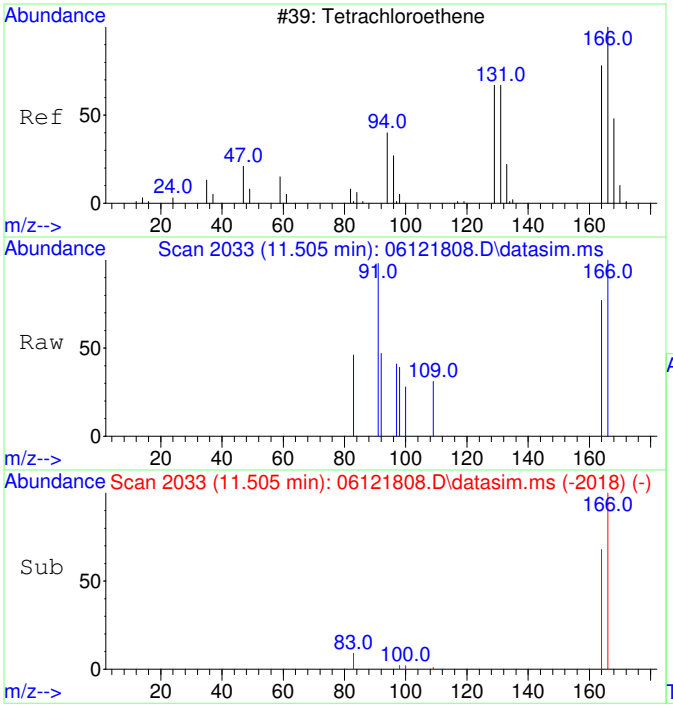


#14
1,1,2-Trichloroethane
Concen: 57.13 ug/L
RT: 11.306 min Scan# 2014
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 97 Resp: 232

Ion	Ratio	Lower	Upper
97	100		
83	103.9	53.4	113.4

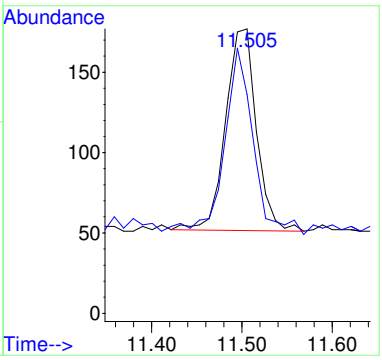


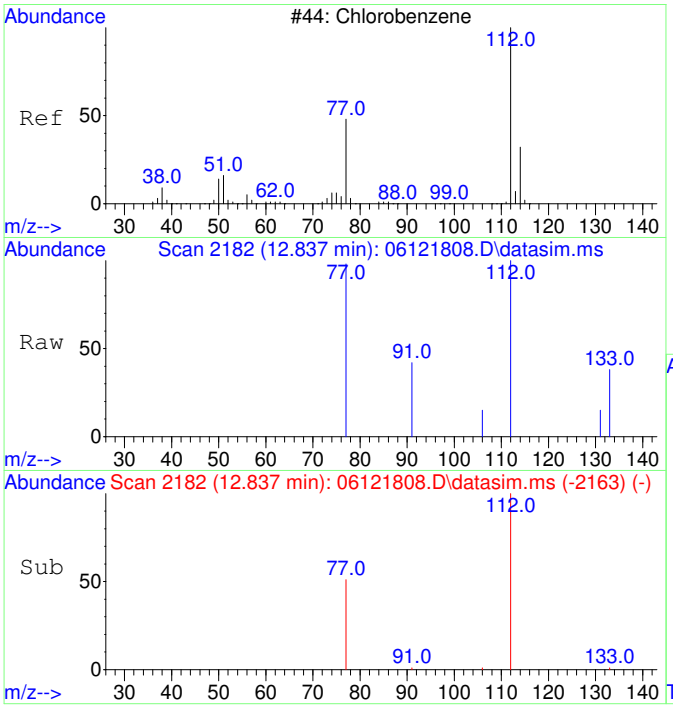


#15
Tetrachloroethene
Concen: 53.83 ug/L
RT: 11.505 min Scan# 2033
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:166 Resp: 298

Ion	Ratio	Lower	Upper
166	100		
164	88.3	47.8	107.8

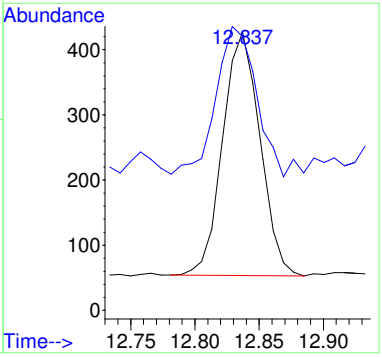


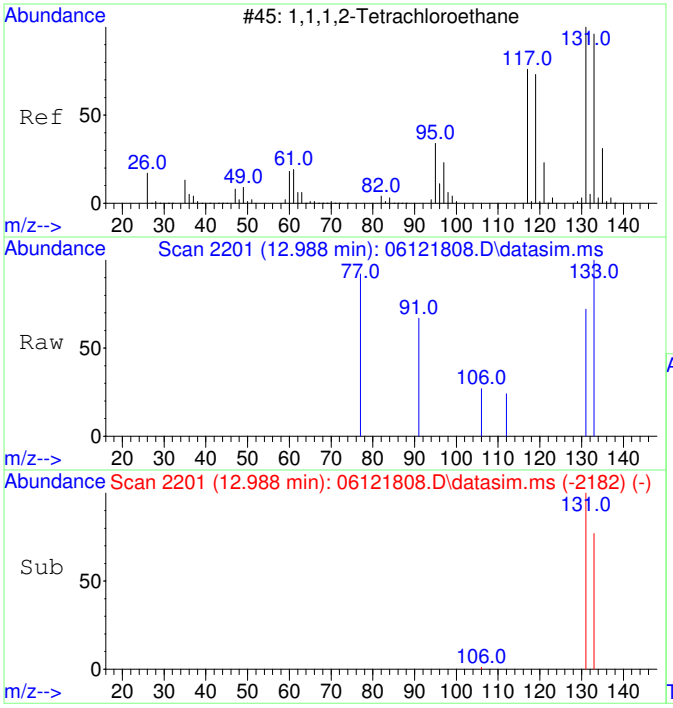


#16
Chlorobenzene
Concen: 53.55 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:112 Resp: 751

Ion	Ratio	Lower	Upper
112	100		
77	66.8	28.1	88.1

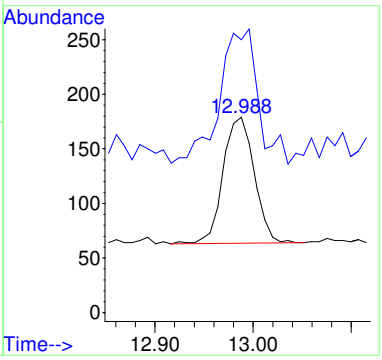


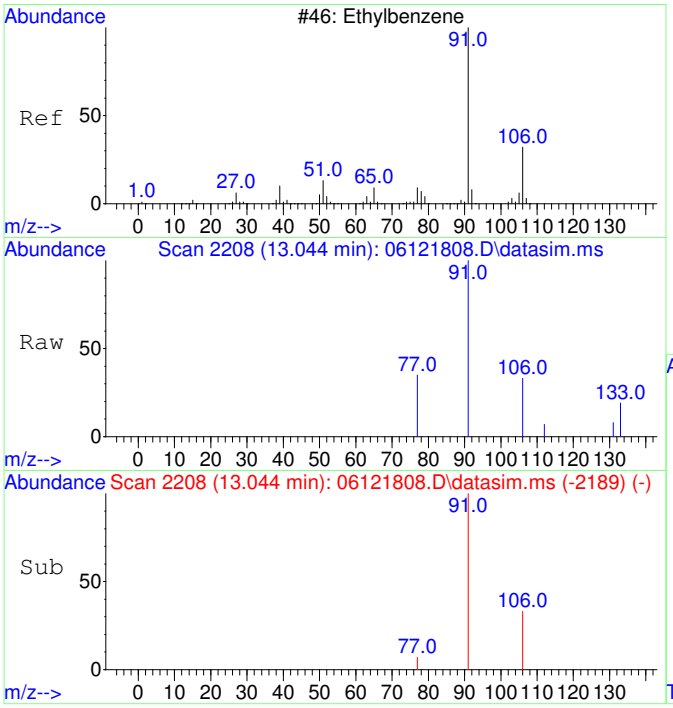


#17
1,1,1,2-Tetrachloroethane
Concen: 53.37 ug/L
RT: 12.988 min Scan# 2201
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:131 Resp: 254

Ion	Ratio	Lower	Upper
131	100		
133	130.7	66.2	126.2#

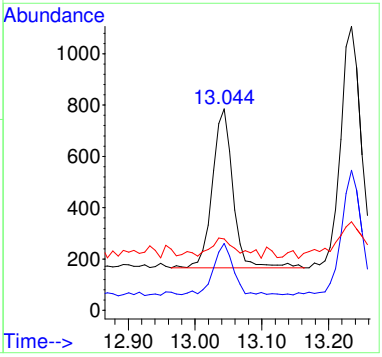


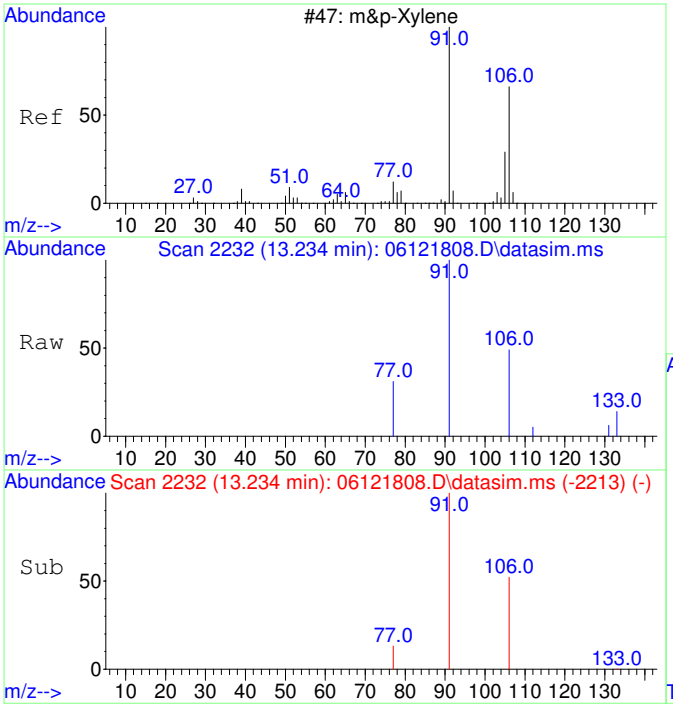


#18
Ethylbenzene
Concen: 55.98 ug/L
RT: 13.044 min Scan# 2208
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

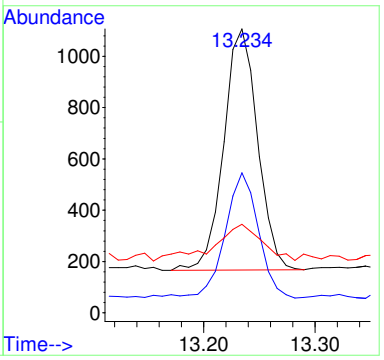


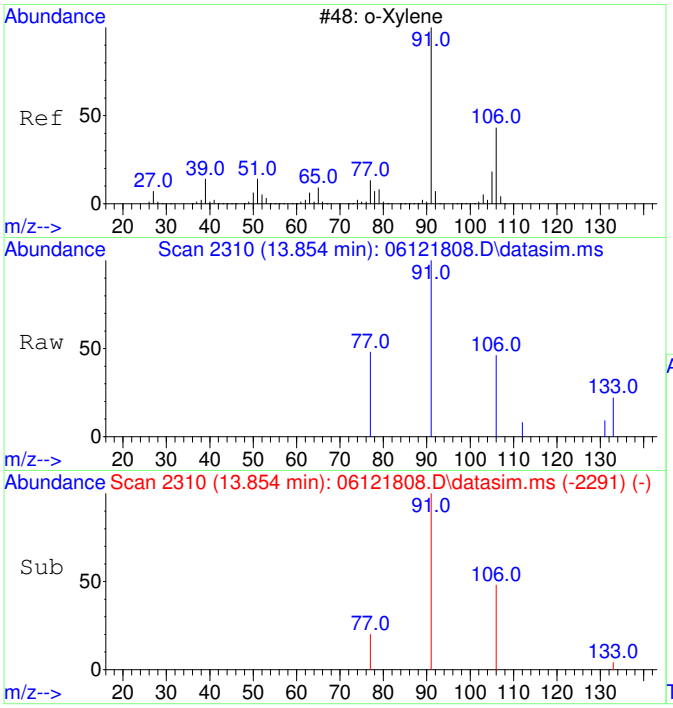


#19
m&p-Xylene
Concen: 109.24 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

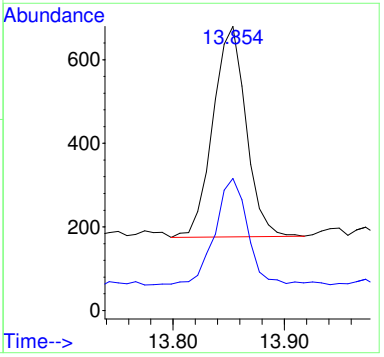


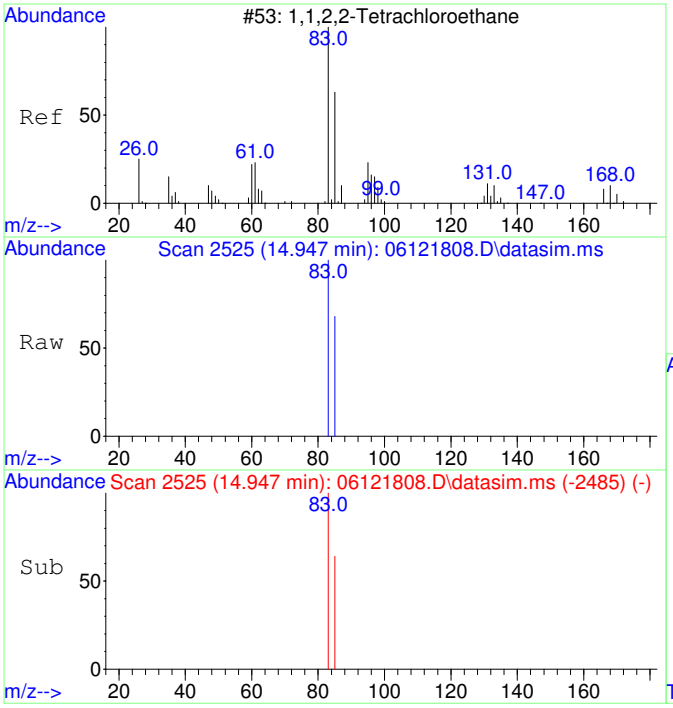


#20
o-Xylene
Concen: 53.86 ug/L
RT: 13.854 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 91 Resp: 1038

Ion	Ratio	Lower	Upper
91	100		
106	50.4	18.3	78.3

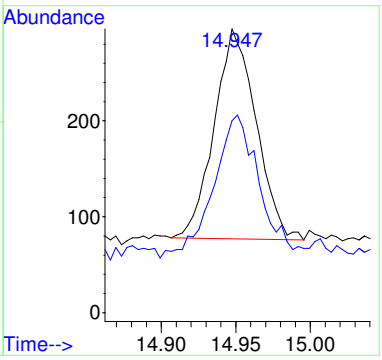


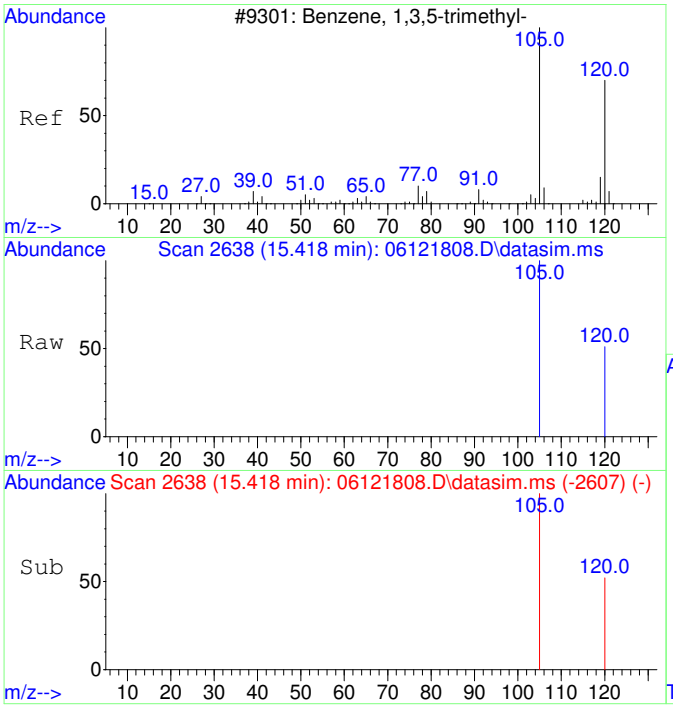


#21
1,1,2,2-Tetrachloroethane
Concen: 51.56 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.003 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 83 Resp: 428

Ion	Ratio	Lower	Upper
83	100		
85	75.0	34.4	94.4

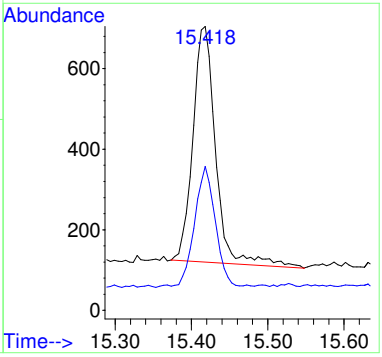


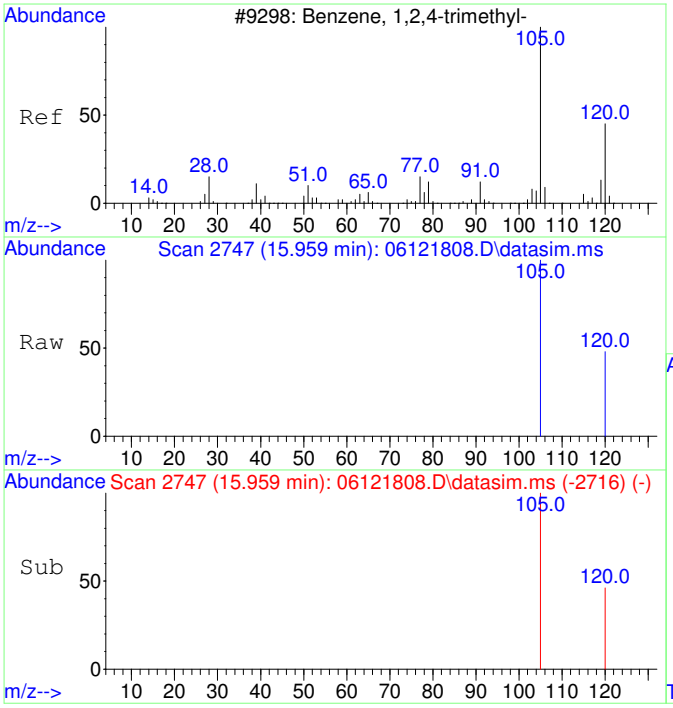


#22
1,3,5-Trimethylbenzene
Concen: 55.30 ug/L
RT: 15.418 min Scan# 2638
Delta R.T. 0.004 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1206

Ion	Ratio	Lower	Upper
105	100		
120	45.8	19.1	79.1

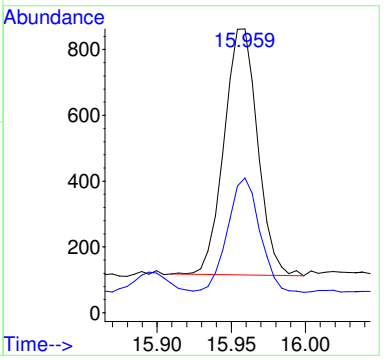


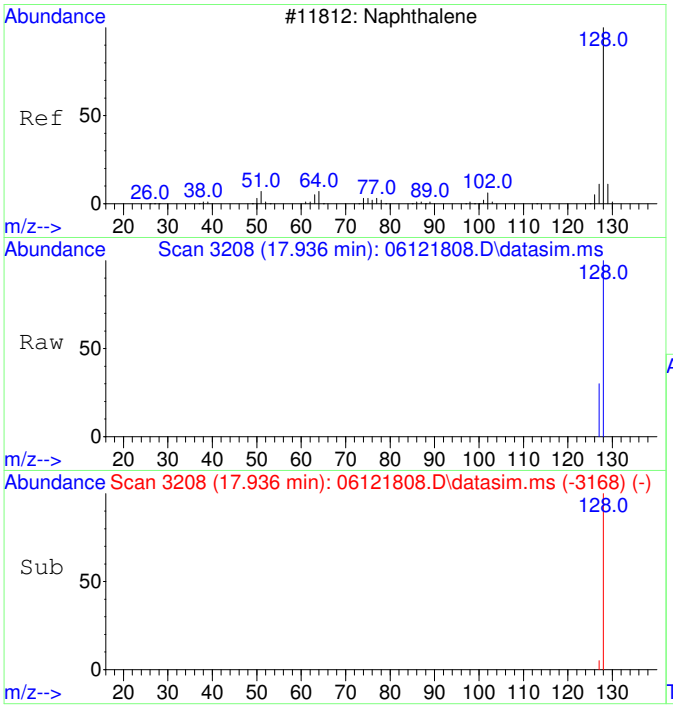


#23
1,2,4-Trimethylbenzene
Concen: 53.87 ug/L
RT: 15.959 min Scan# 2747
Delta R.T. 0.004 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:105 Resp: 1175

Ion	Ratio	Lower	Upper
105	100		
120	44.3	15.5	75.5

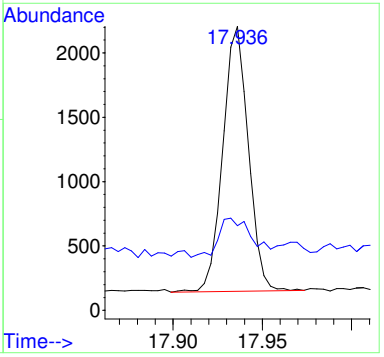


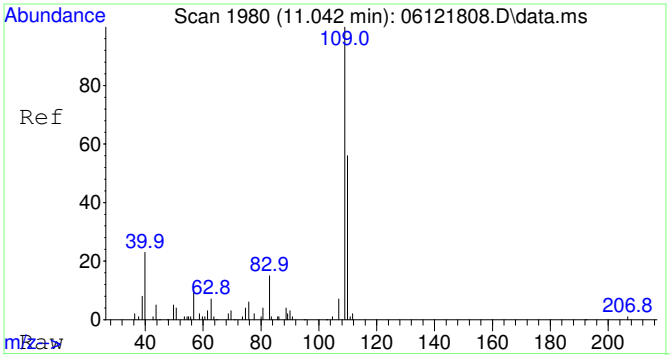


#24
Naphthalene
Concen: 57.15 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:128 Resp: 2046

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	42.5

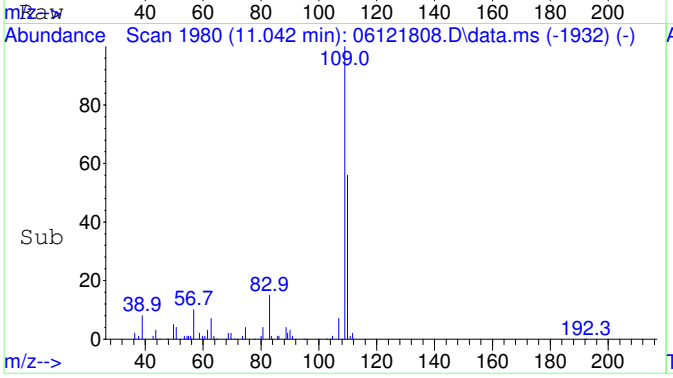


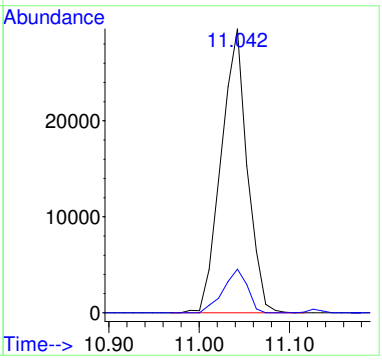


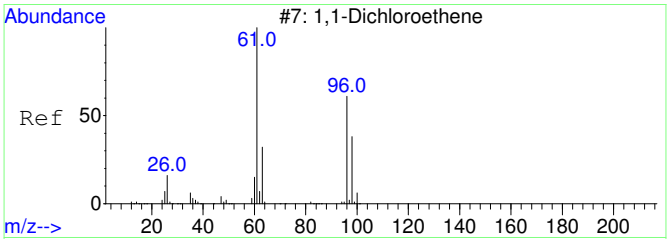
#25
2-Fluorotoluene SCAN
Concen: 5683.26 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion:109 Resp: 59747

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	45.7



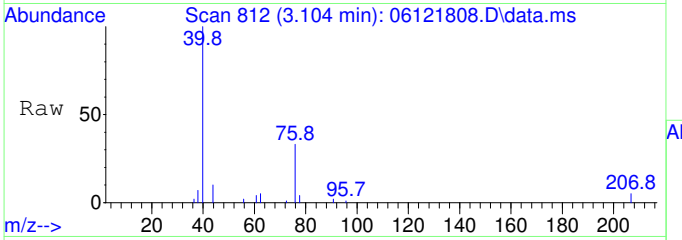


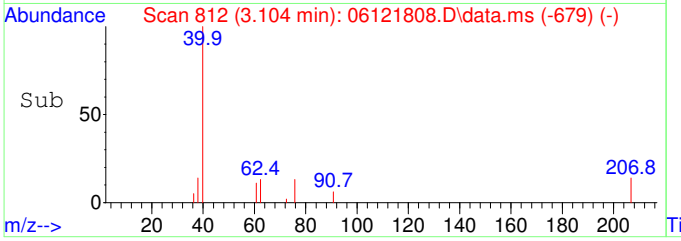


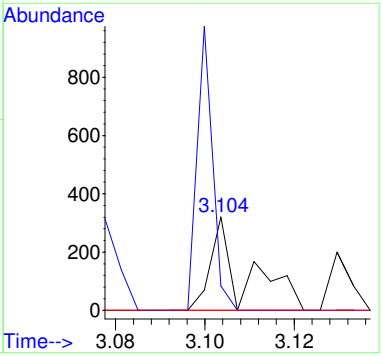
#26
1,1-Dichloroethene SCAN
Concen: 65.95 ug/L
RT: 3.104 min Scan# 812
Delta R.T. -0.007 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

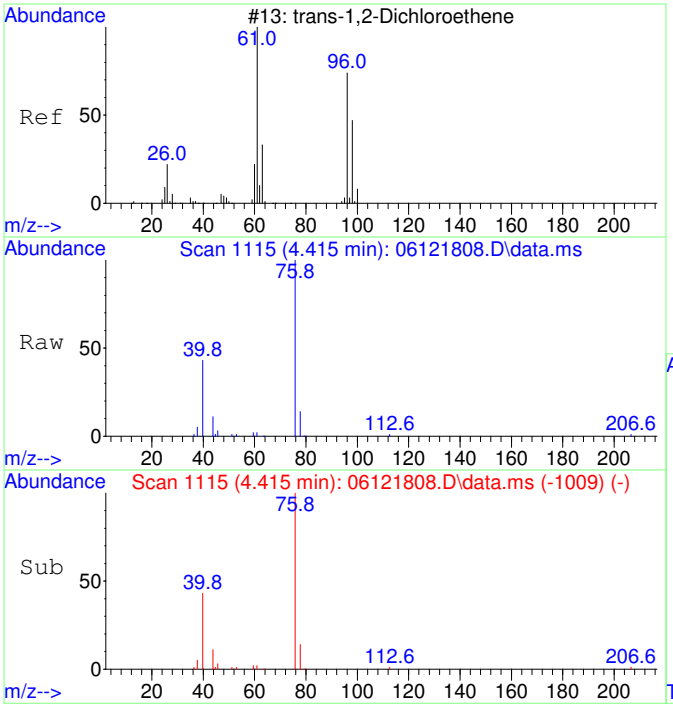
Tgt Ion: 61 Resp: 173

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





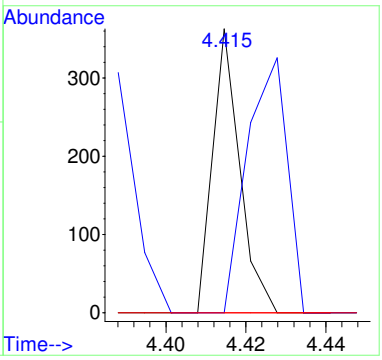


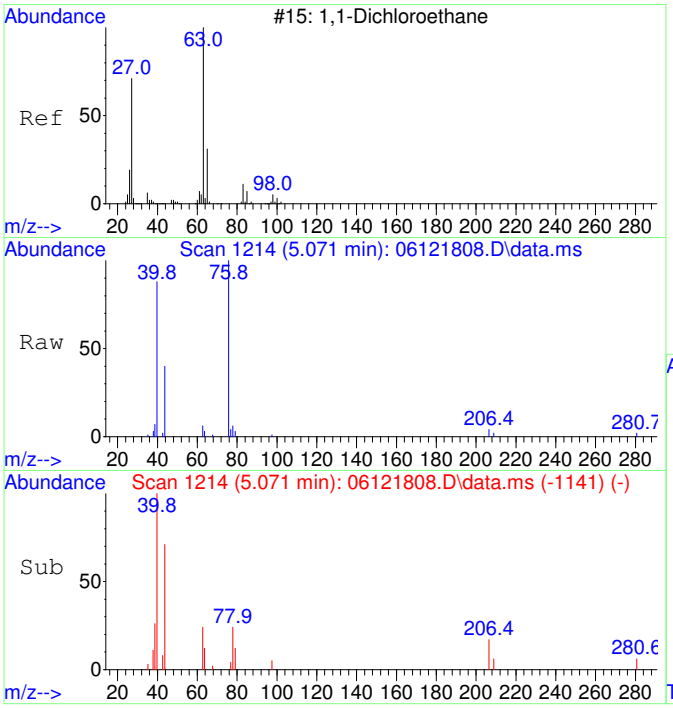


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.99 ug/L
RT: 4.415 min Scan# 1115
Delta R.T. 0.080 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

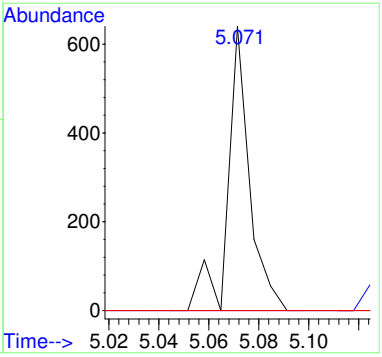


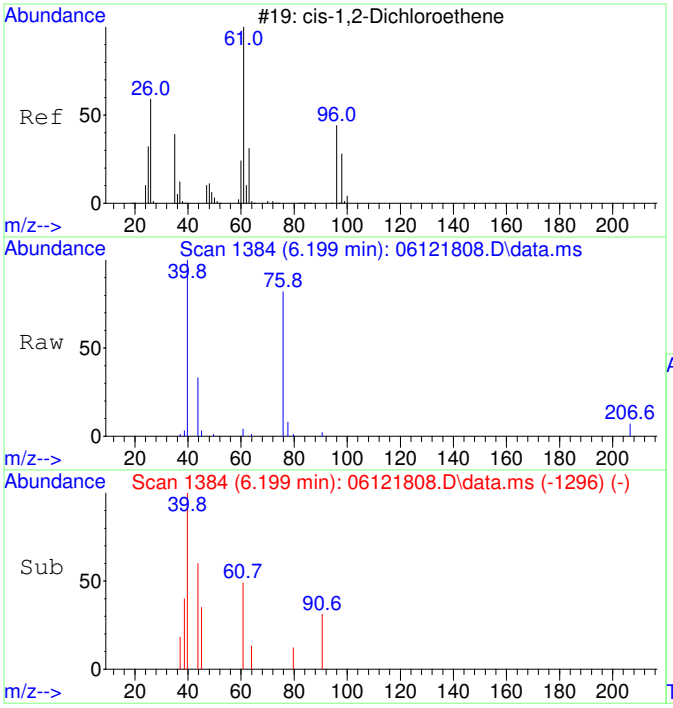


#28
1,1-Dichloroethane SCAN
Concen: 99.35 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. -0.013 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

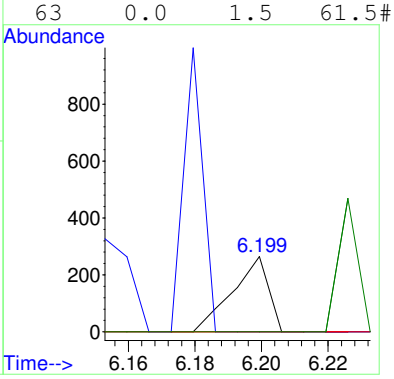


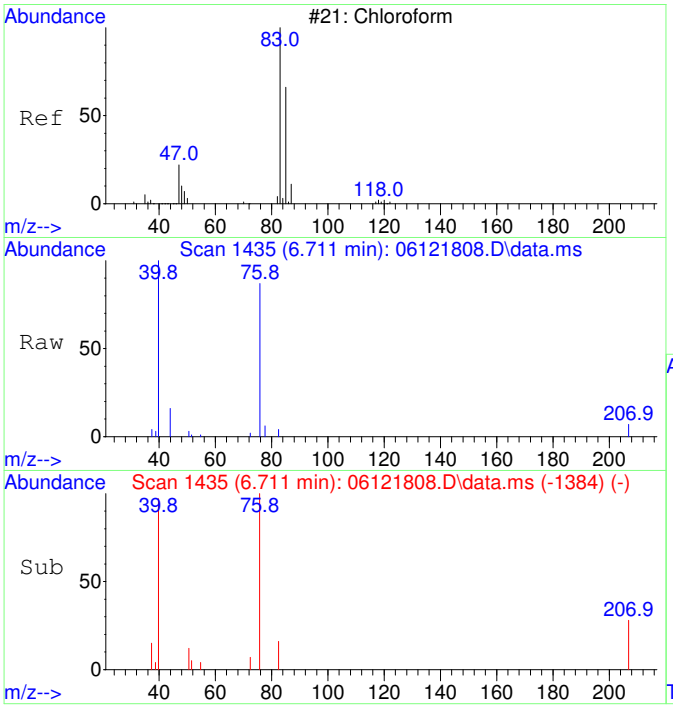


#29
cis-1,2-Dichloroethene SCAN
Concen: 59.52 ug/L
RT: 6.199 min Scan# 1384
Delta R.T. 0.086 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

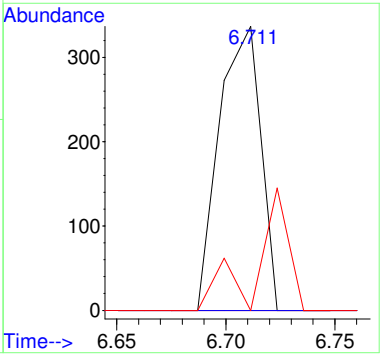


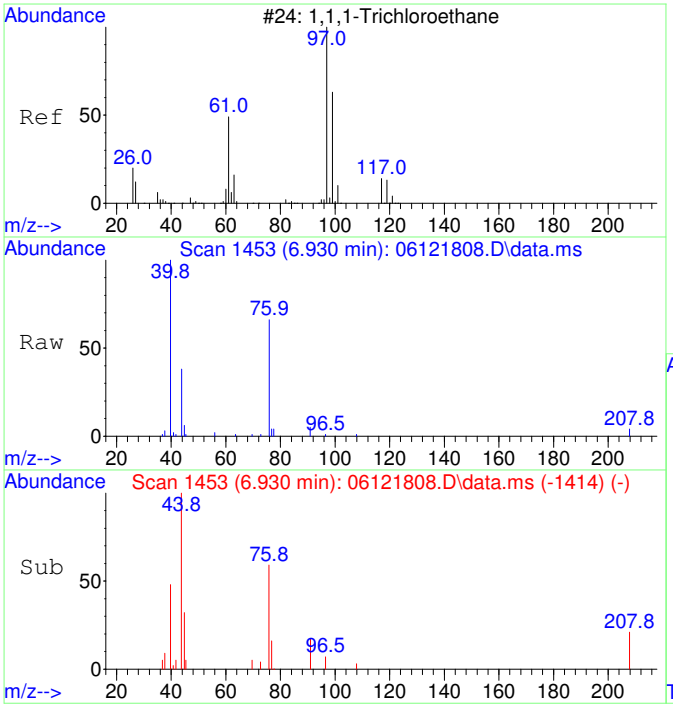


#30
Chloroform SCAN
Concen: 107.89 ug/L
RT: 6.711 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

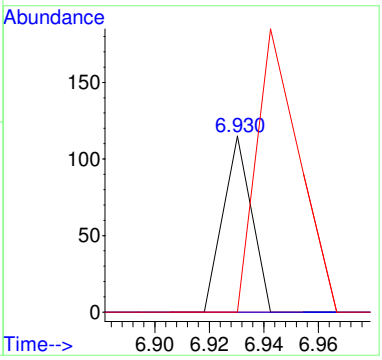


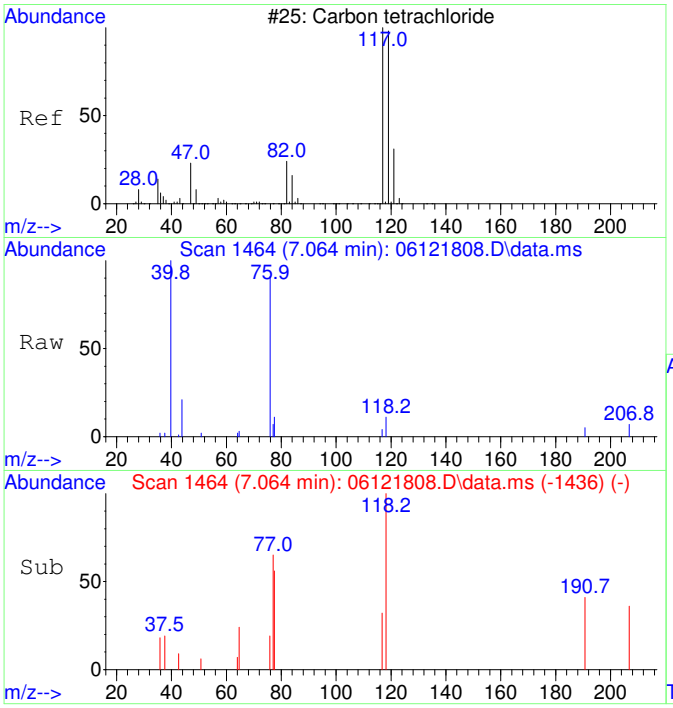


#31
1,1,1-Trichloroethane SCAN
Concen: 22.88 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. -0.024 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

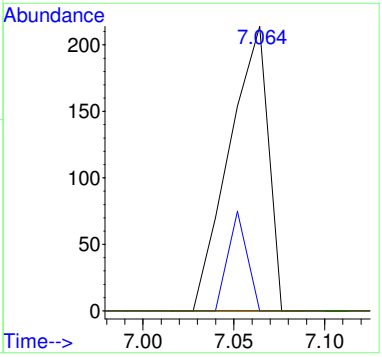


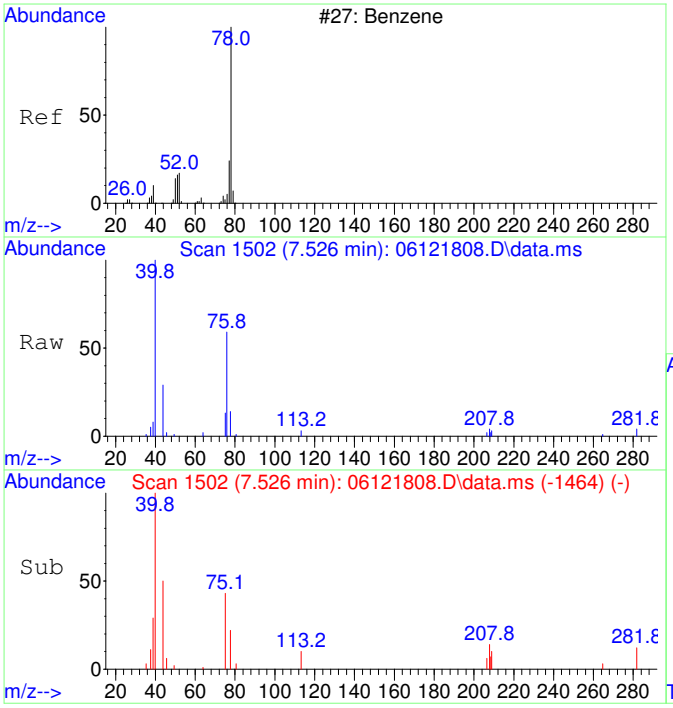


#32
Carbon tetrachloride SCAN
Concen: 88.46 ug/L
RT: 7.064 min Scan# 1464
Delta R.T. -0.158 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

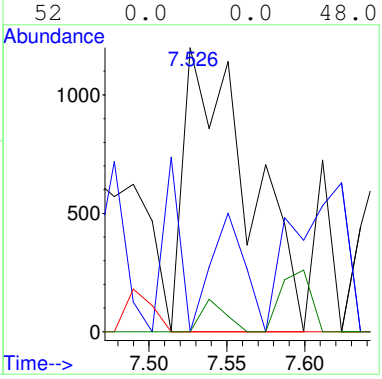


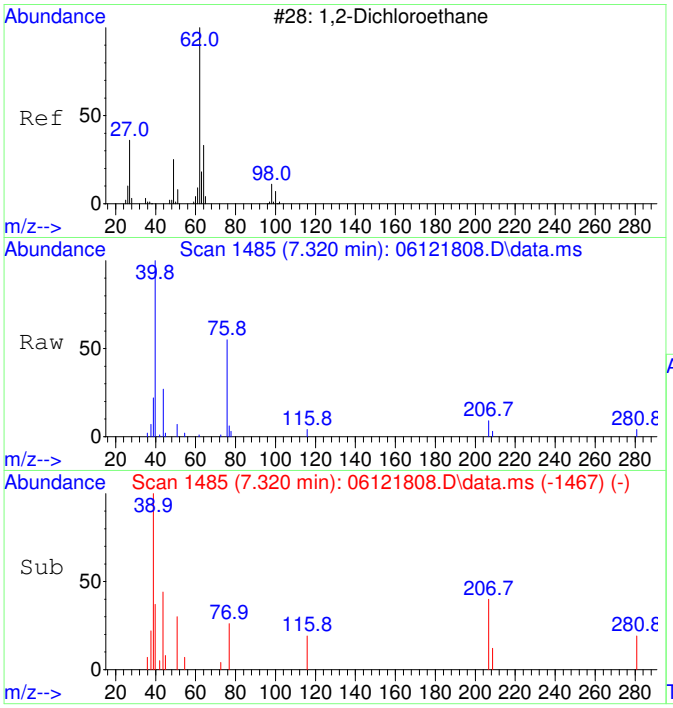


#33
Benzene SCAN
Concen: 314.93 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. -0.036 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

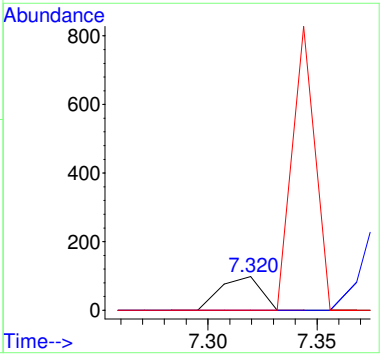


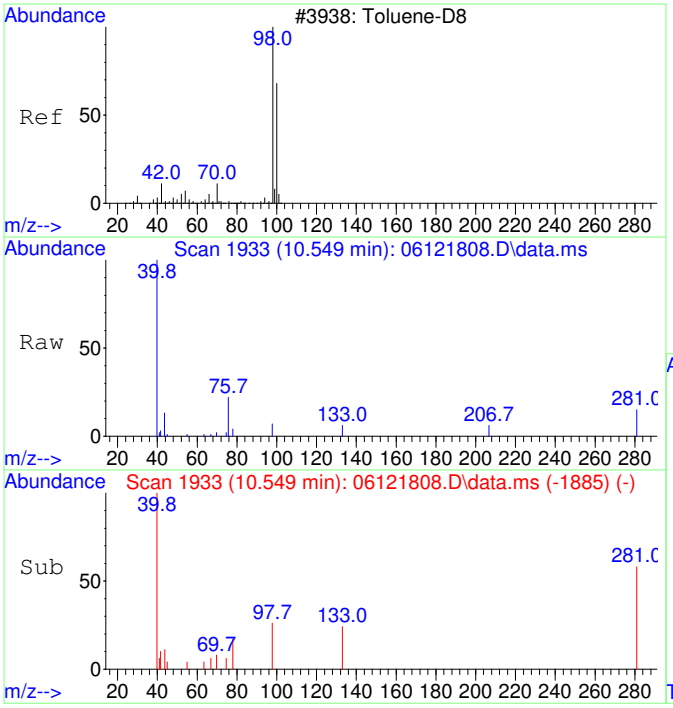


#34
1,2-Dichloroethane SCAN
Concen: 34.01 ug/L
RT: 7.320 min Scan# 1485
Delta R.T. -0.280 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

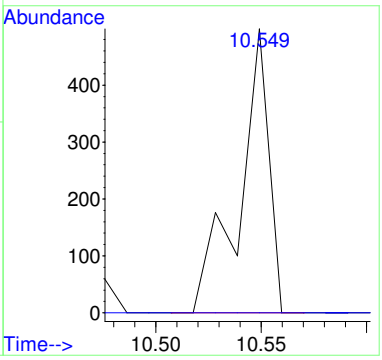


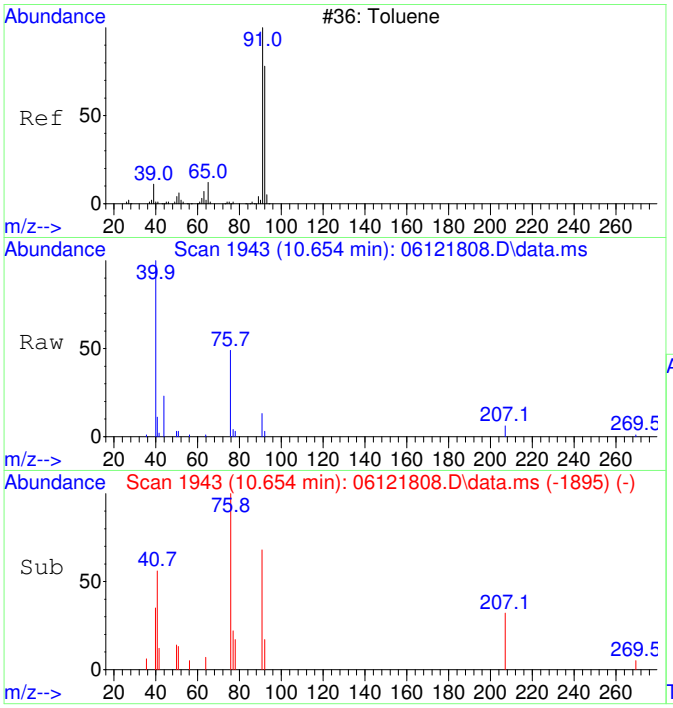


#36
Toluene-d8 SCAN
Concen: 51.35 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

Tgt Ion: 98 Resp: 488

Ion	Ratio	Lower	Upper
98	100		
100	0.0	39.5	99.5#

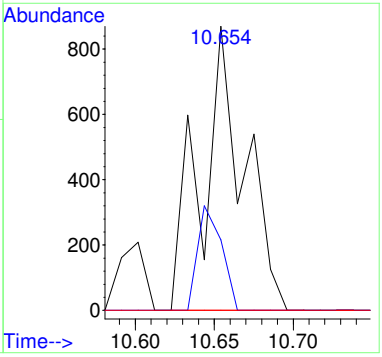


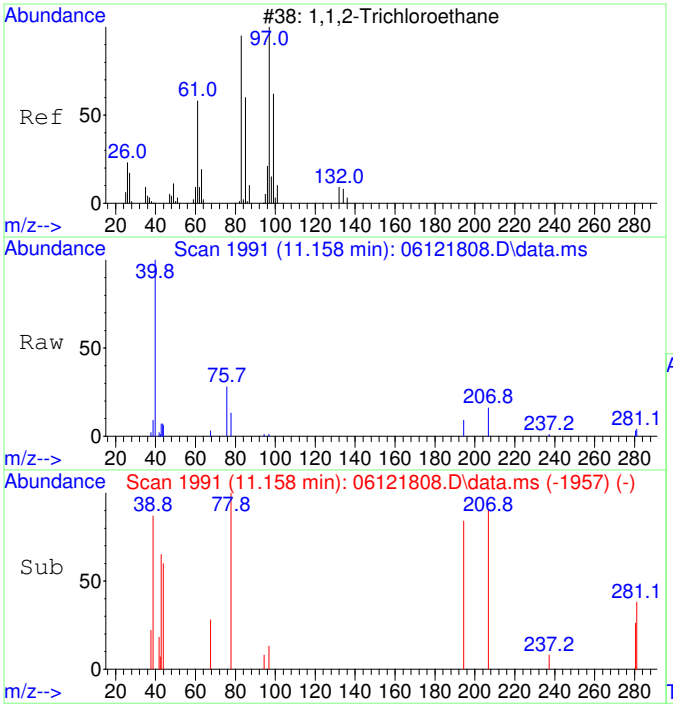


#37
Toluene SCAN
Concen: 135.67 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

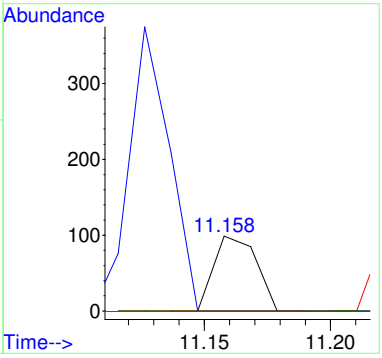


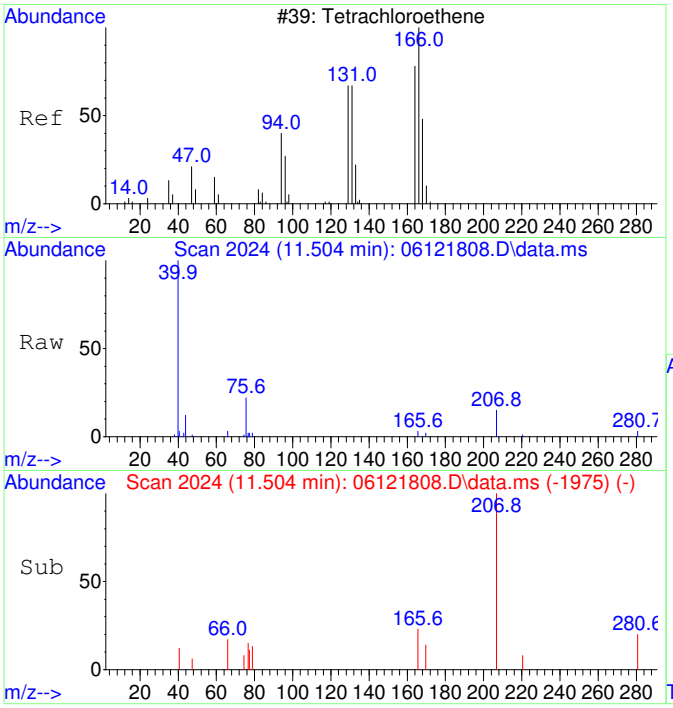


#38
1,1,2-Trichloroethane SCAN
Concen: 49.87 ug/L
RT: 11.158 min Scan# 1991
Delta R.T. -0.147 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

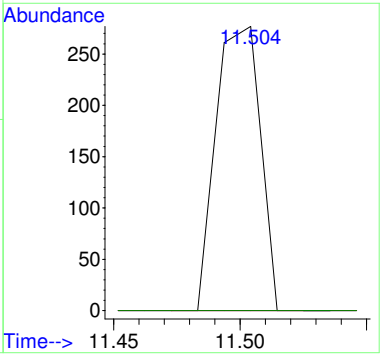


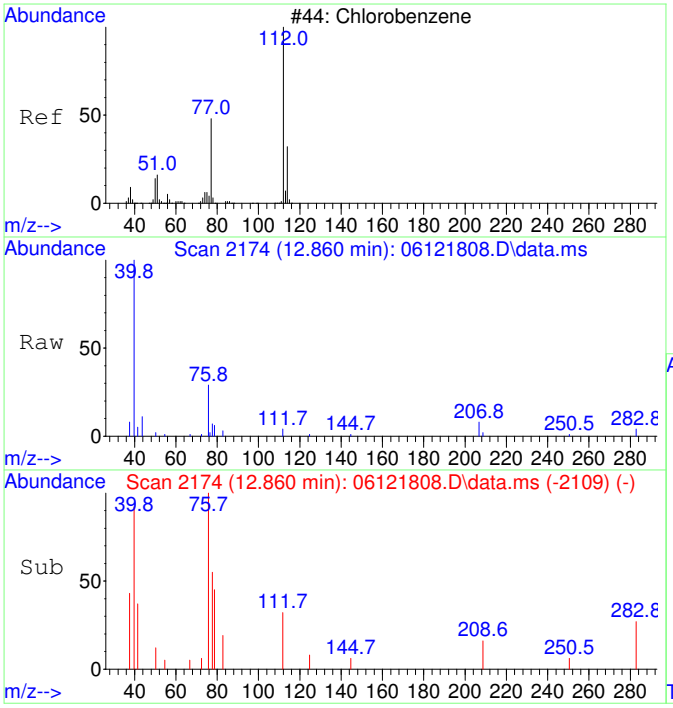


#39
Tetrachloroethene SCAN
Concen: 127.26 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.011 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

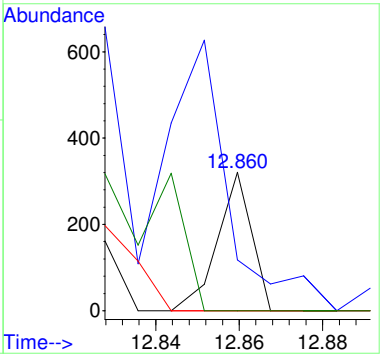


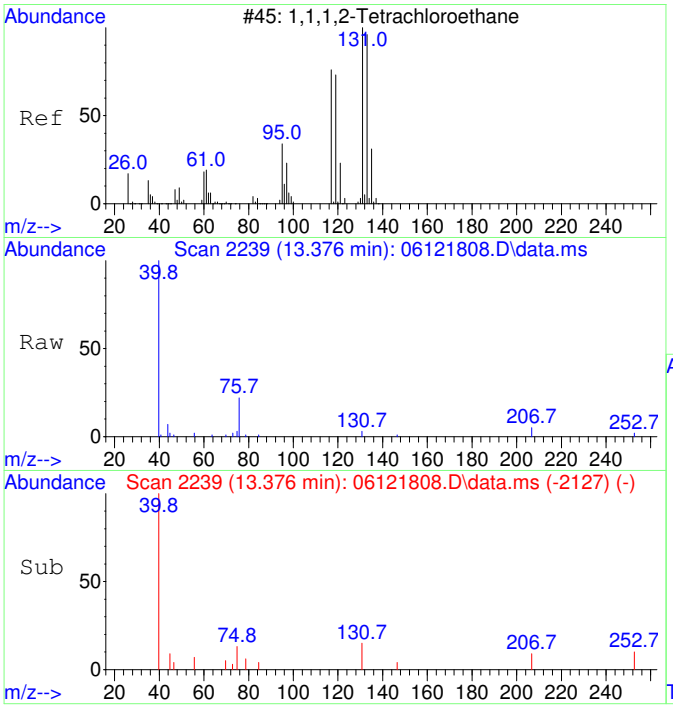


#40
Chlorobenzene SCAN
Concen: 24.71 ug/L
RT: 12.860 min Scan# 2174
Delta R.T. 0.016 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

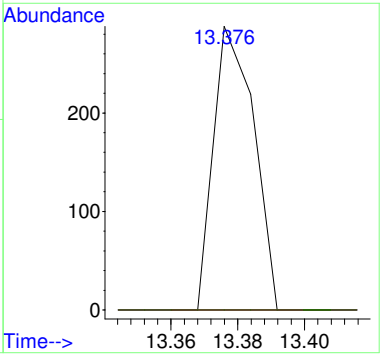


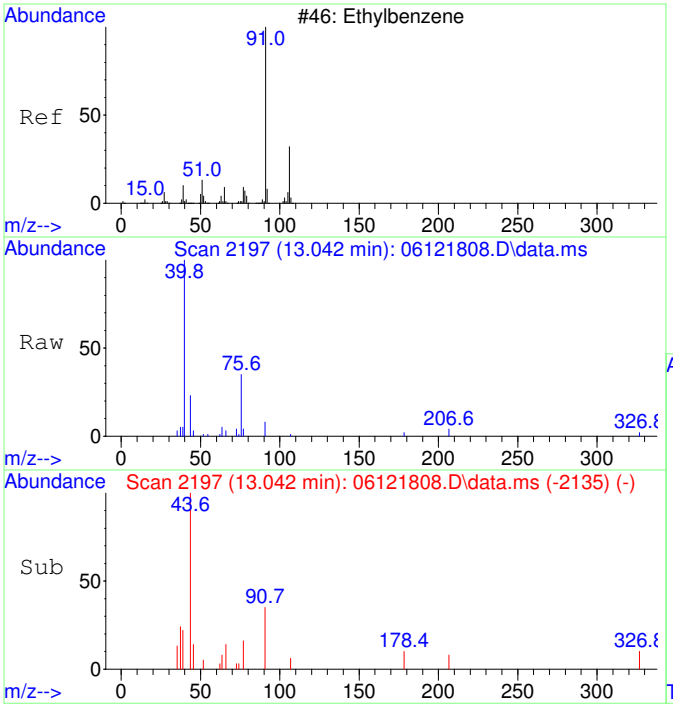


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 92.06 ug/L
RT: 13.376 min Scan# 2239
Delta R.T. 0.389 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

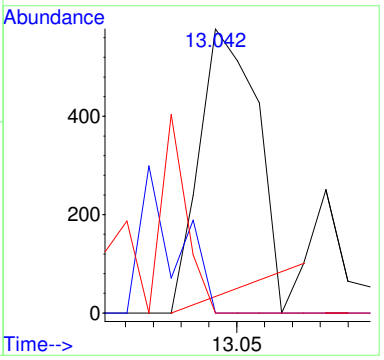


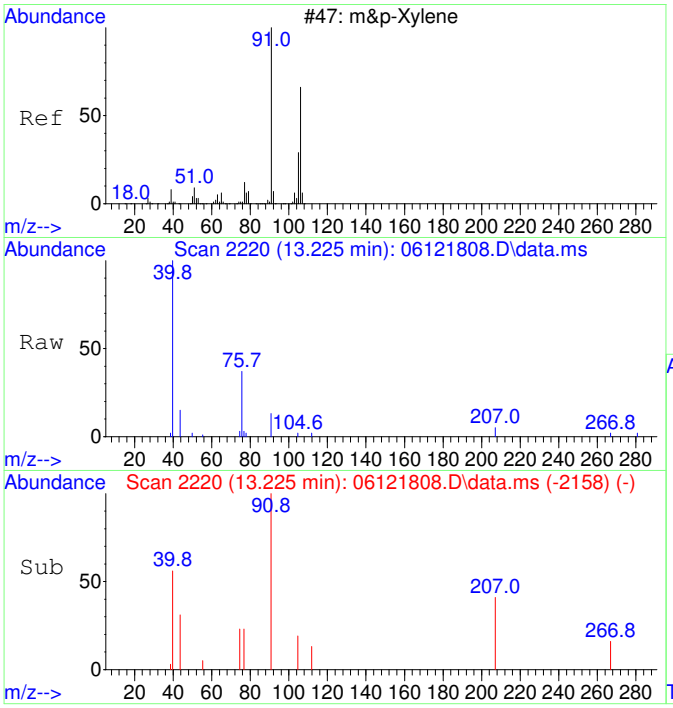


#42
Ethylbenzene SCAN
Concen: 52.51 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

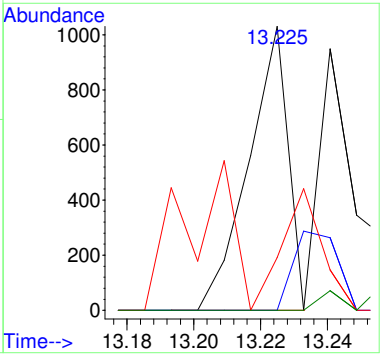


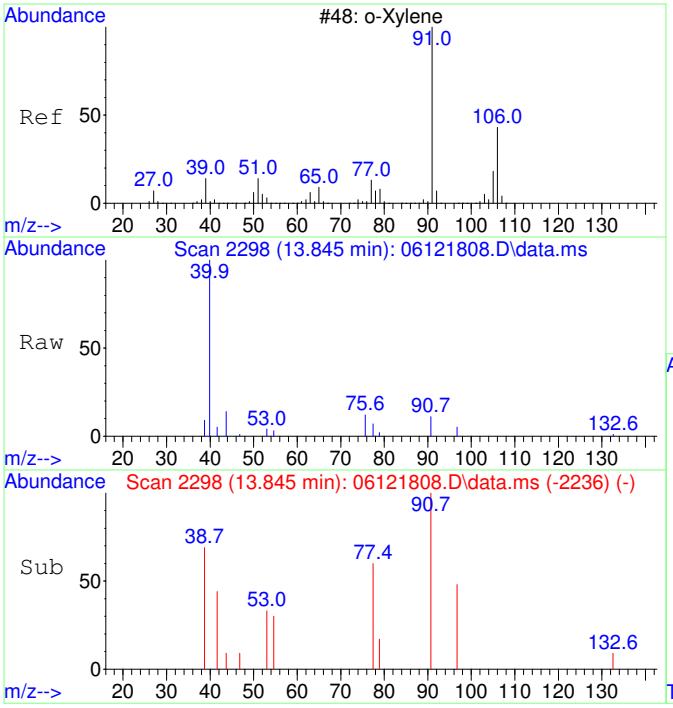


#43
m&p-Xylene SCAN
Concen: 43.14 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

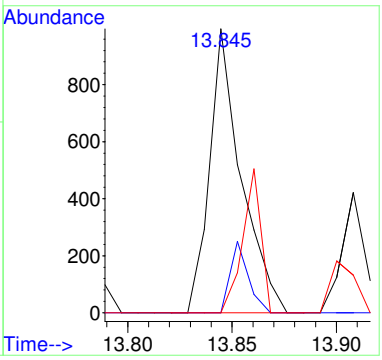


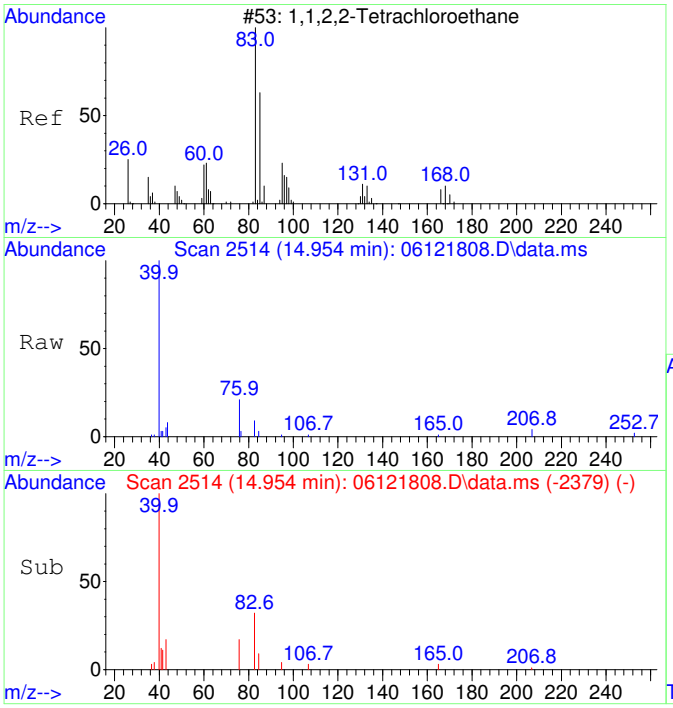


#44
o-Xylene SCAN
Concen: 94.19 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

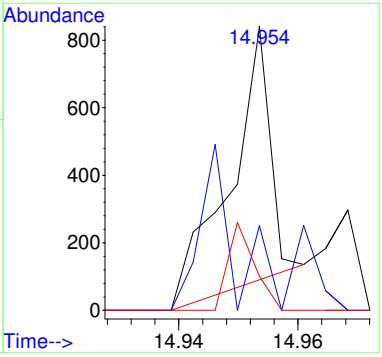


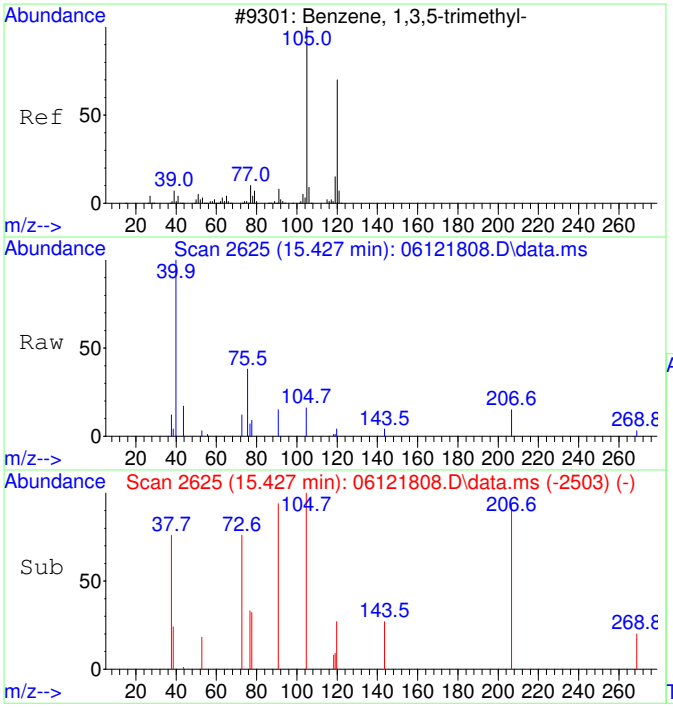


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 68.13 ug/L
RT: 14.954 min Scan# 2514
Delta R.T. 0.000 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

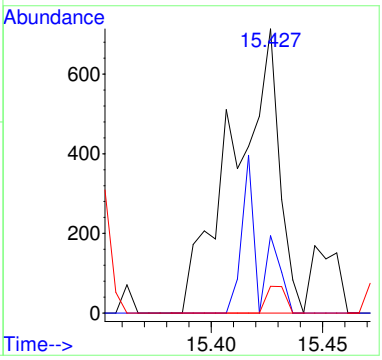


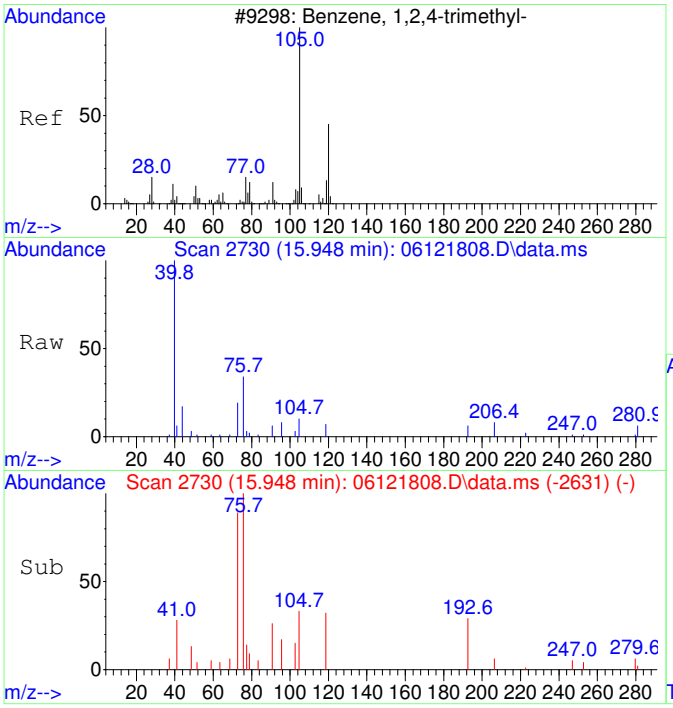


#46
1,3,5-Trimethylbenzene SCAN
Concen: 92.46 ug/L
RT: 15.427 min Scan# 2625
Delta R.T. 0.014 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

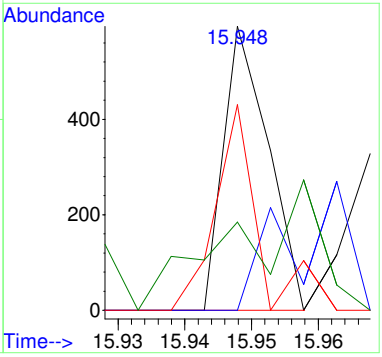


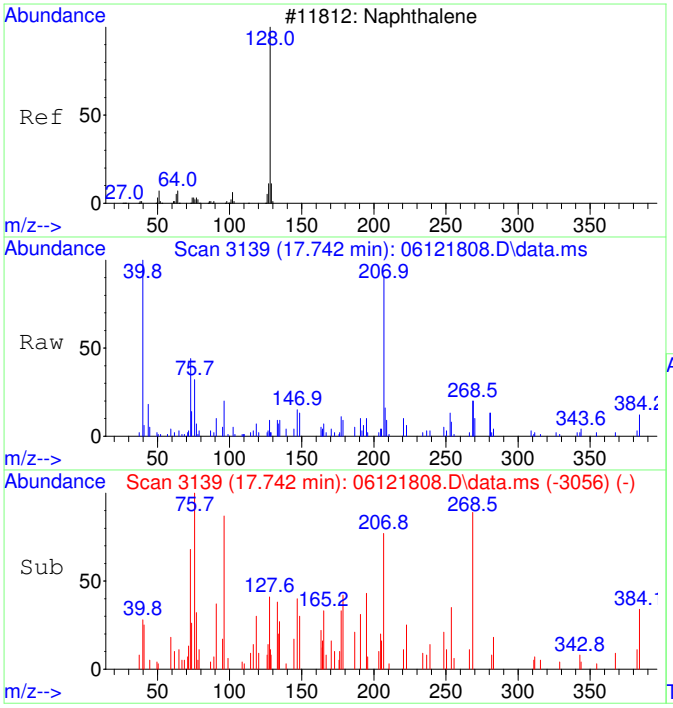


#47
1,2,4-Trimethylbenzene SCAN
Concen: 24.45 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. -0.006 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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#

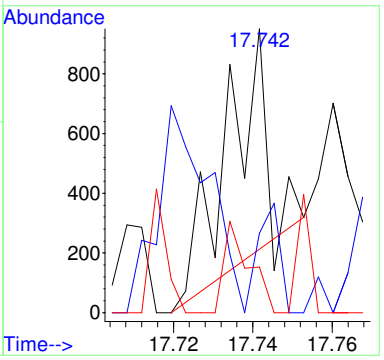




#48
Naphthalene SCAN
Concen: 33.66 ug/L
RT: 17.742 min Scan# 3139
Delta R.T. -0.193 min
Lab File: 06121808.D
Acq: 12 Jun 2018 15:42

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

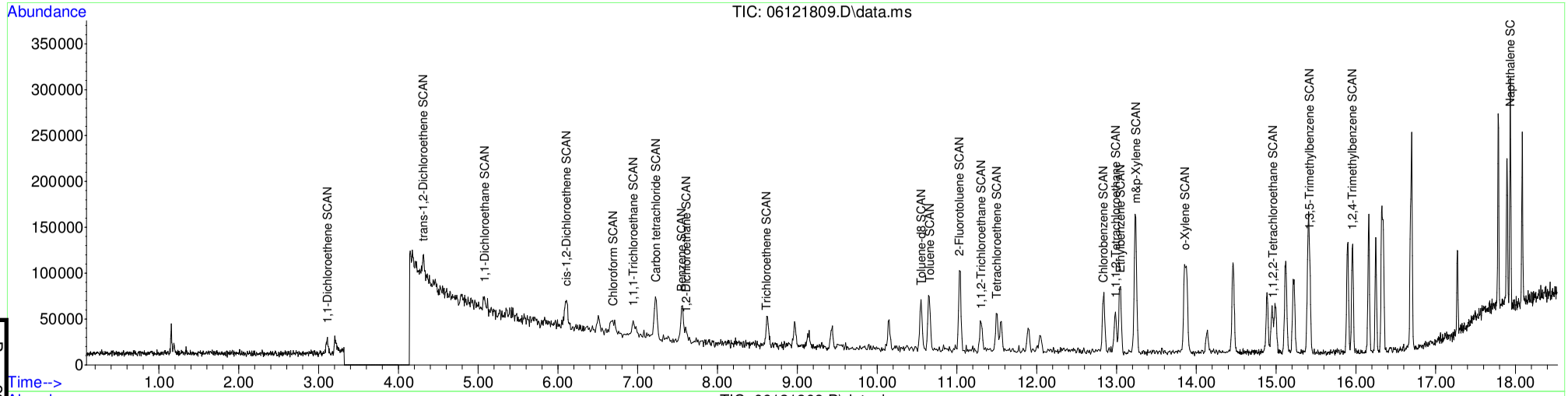
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	79376	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	65069	5046.82 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.94%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	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



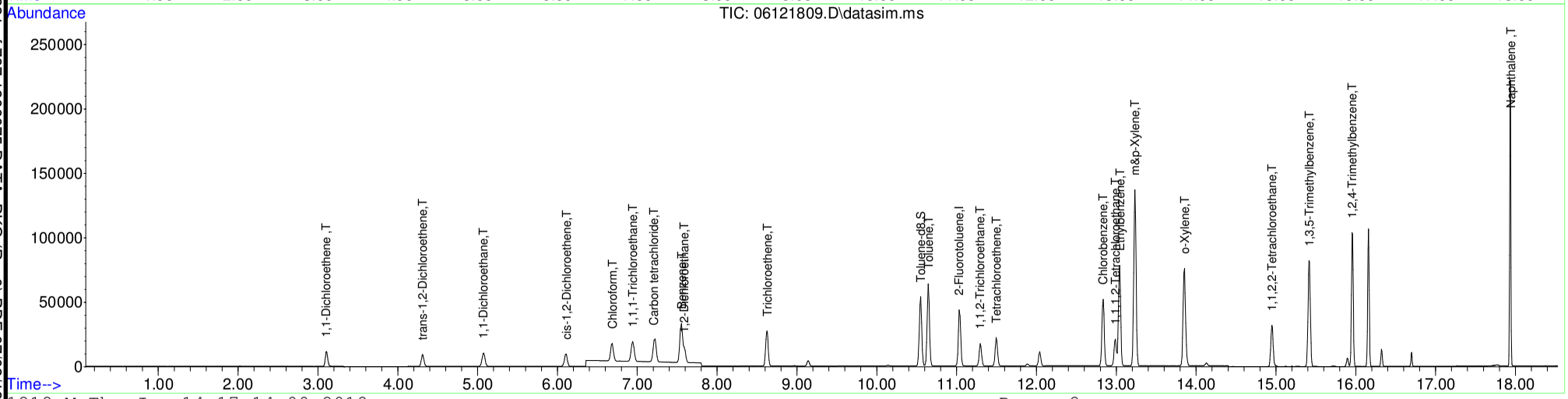


Table of Contents

SEQUENCE

S18F083

Sequence Date: 06/27/2018

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B18F097	SEQUENCE #:	S18F083 6/27/18
BATCH #:		ANALYSIS:	VOA Passive Air. R18S50

	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	
	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?	☑			
	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	See comments
	MSs/MSDs and/or DUPs within QC criteria?	☑			
	Other method-specific QCs within QC criteria? Specify if applicable.	☑			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B18F097	SEQUENCE #:	S18F083 6/27/18
BATCH #:		ANALYSIS:	VOA Passive Air. R18S50

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	B18F097-BLK1, B18F097-BS1 both fail IS recovery high. Not used.
	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	
	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	

APPROVALS	ANALYST INITIALS & DATE:	TD 06/29/18
	REVIEWED BY:	Ziyad Rajabi (affiliate) Digitally signed by Ziyad Rajabi (affiliate) Date: 2018.07.02 11:31:17 -07'00' SIGN HERE

COMMENTS

BLK1 and BS1 were re-run as BLK2 and BS2 because IS failed high. BSD1 was added as BSD2 back to the batch so LIMS could link them.

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2018\062718\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	06271801.D	1	S18F083-IBL1		27 Jun 2018 9:06
2	06271802.D	1	S18F083-TUN1	BFB 1806045	27 Jun 2018 10:09
3	06271803.D	1	S18F083-CCV1	1823100 5 mg/L	27 Jun 2018 10:19
4	06271804.D	1	S18F083-CRL1	1823102 0.15 mg/L	27 Jun 2018 10:42
5	06271805.D	1	S18F083-CRL2	1823103 0.05 mg/L	27 Jun 2018 11:06
6	06271806.D	1	B18F097-BLK1		27 Jun 2018 11:30
7	06271807.D	1	B18F097-BS1		27 Jun 2018 11:53
8	06271808.D	1	B18F097-BSD1		27 Jun 2018 12:17
9	06271809.D	1	B18F097-MRL1		27 Jun 2018 12:41
10	06271810.D	1	1806075-01		27 Jun 2018 13:04
11	06271811.D	1	1806075-02		27 Jun 2018 13:28
12	06271812.D	1	1806075-03		27 Jun 2018 13:52
13	06271813.D	1	1806075-04		27 Jun 2018 14:16
14	06271814.D	1	B18F097-BLK2	RR for HIGH IS	27 Jun 2018 14:39
15	06271815.D	1	B18F097-BS2	RR for HIGH IS	27 Jun 2018 15:03
16	06271816.D	10	1806075-01RE1	10X DL, 450 uL-50 uL	27 Jun 2018 15:30
17	06271817.D	10	1806075-02RE1	10X DL, 450 uL-50 uL	27 Jun 2018 15:54
18	06271818.D	10	1806075-03RE1	10X DL, 450 uL-50 uL	27 Jun 2018 16:17
1	06271819.D	1	S18F038-IBL2		27 Jun 2018 16:41
1	06271820.D	1	S18F038-IBL3		27 Jun 2018 17:04
19	06271821.D	1	1806075-04RE1	RE-RUN CHECK FOR C.O.	27 Jun 2018 17:41
20	06271822.D	100	1806075-03RE2	10 UL + 990 UL	27 Jun 2018 18:05
1	06271823.D	1	S18F038-IBL4		27 Jun 2018 18:28
1	06271824.D	1	S18F038-IBL5		27 Jun 2018 18:52
1	06271825.D	1	S18F038-IBL6		27 Jun 2018 19:16
1	06271826.D	1	S18F038-IBL7		27 Jun 2018 19:40

GC/MS QA-QC Check Report

Table of Contents

Tune File : C:\msdchem\1\Ravioli Data\2018\062718\06271802.D
Tune Time : 27 Jun 2018 10:09

Daily Calibration File : C:\msdchem\1\Ravioli Data\2018\062718\06271803.D

104652

File	Sample	Surrogate Recovery %	Internal Standard Responses	
06271803.D				
	S18F083-CC	98	104652	
06271804.D				
	S18F083-CR	3*	118835	
06271805.D				
	S18F083-CR	1*	184385	
06271806.D				
	B18F097-BLK1	104	292160*	
06271807.D				
	B18F097-BS1	105	228115*	
06271808.D				
	B18F097-BSD1	104	174072	
06271809.D				
	B18F097-MRL1	106	104008	
06271810.D				
	1806075-01	105	141743	
06271811.D				
	1806075-02	102	191330	
06271812.D				
	1806075-03	105	116576	
06271813.D				
	1806075-04	104	140778	
06271814.D				
	B18F097-BLK2	104	162058	RR
06271815.D				
	B18F097-BS2	104	182157	RR
06271816.D				
	1806075-01RE1	101	118250	10X DL
06271817.D				
	1806075-02RE1	101	108103	10X DL
06271818.D				
	1806075-03RE1	101	178578	10X DL
06271821.D				
	1806075-04RE1	104	148425	RR FOR CO
06271822.D				
	1806075-03RE2	101	156334	100X DL

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

Created: Thu Jun 28 07:11:25 2018 AG5975C

Analysis Sequence

S18F083

Project: R18S50
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 1806010 Printed: 06/29/2018 11:53 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S18F083-IBL1	Instrument Blank	1	6/27/18 9:06			TD	06271801.D	
S18F083-TUN1	BFB	2	6/27/18 10:09	1806045		TD	06271802.D	
S18F083-CCV1	Calibration Check	3	6/27/18 10:19	1823100		TD	06271803.D	
S18F083-CRL1	Instrument RL Check	4	6/27/18 10:42	1823102		TD	06271804.D	
S18F083-CRL2	Instrument RL Check	5	6/27/18 11:06	1823103		TD	06271805.D	
B18F097-BLK1	Blank	6	6/27/18 11:30			TD	06271806.D	
B18F097-BS1	LCS	7	6/27/18 11:53			TD	06271807.D	
B18F097-BSD1	LCS Dup	8	6/27/18 12:17			TD	06271808.D	
B18F097-BSD2	LCS Dup	9	6/27/18 12:17			TD	06271808.D	
B18F097-MRL1	MRL Check	10	6/27/18 12:41			TD	06271809.D	
1806075-01 A	F5-062-4ft-8d	11	6/27/18 13:04			TD	06271810.D	
1806075-02 A	F5-054-4ft-8d	12	6/27/18 13:28			TD	06271811.D	
1806075-03 A	F6-006-4ft-8d	13	6/27/18 13:52			TD	06271812.D	
1806075-04 A	870 Leong-SC-2 ft-7d	14	6/27/18 14:16			TD	06271813.D	
B18F097-BLK2	Blank	15	6/27/18 14:39			TD	06271814.D	
B18F097-BS2	LCS	16	6/27/18 15:03			TD	06271815.D	
1806075-01RE1 A	F5-062-4ft-8d	17	6/27/18 15:30			TD	06271816.D	
1806075-02RE1 A	F5-054-4ft-8d	18	6/27/18 15:54			TD	06271817.D	
1806075-03RE1 A	F6-006-4ft-8d	19	6/27/18 16:17			TD	06271818.D	
S18F083-IBL2	Instrument Blank	20	6/28/18 11:43			TD	06271819.D	
S18F083-IBL3	Instrument Blank	21	6/28/18 11:43			TD	06271820.D	
1806075-04RE1 A	870 Leong-SC-2 ft-7d	22	6/27/18 17:41			TD	06271821.D	

Analysis Sequence

S18F083

(Continued)

Project: R18S50
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 1806010 Printed: 06/29/2018 11:53 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
1806075-03RE2 A	F6-006-4ft-8d	23	6/27/18 18:05			TD	06271822.D	

Sequence Comments

Reagents

Reagent #	Description

SEQUENCE DATA

S18F083

S18F083-IBL1

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271801.D
Acq On : 27 Jun 2018 9:06
InstName : AG5975C
Operator : TD
Sample : S18F083-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 09:25:53 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

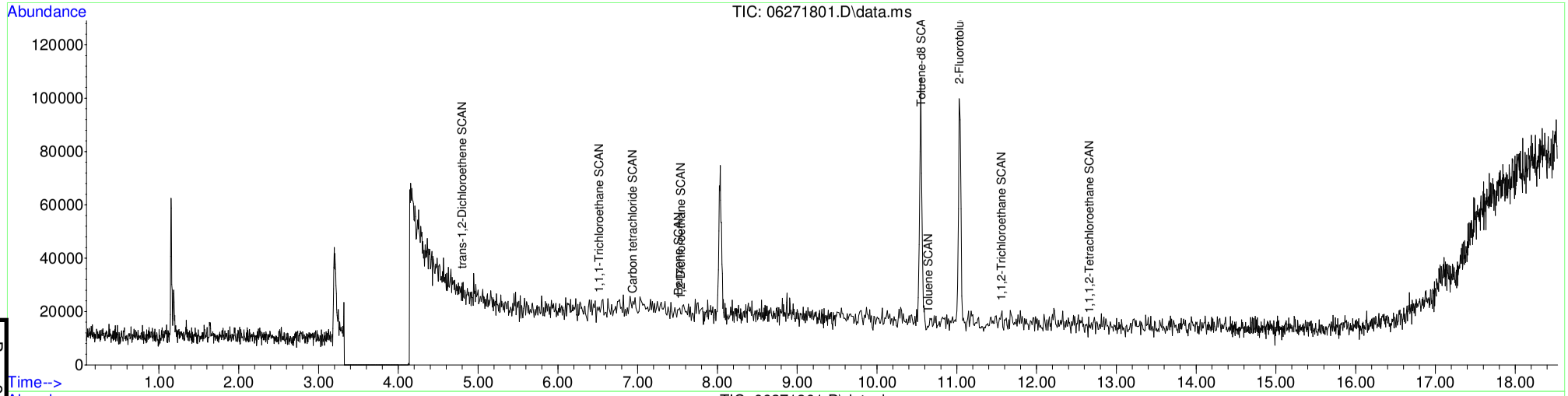
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	114651	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.550	98	97080	5212.97	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.26%			
Target Compounds						Qvalue
9] Benzene	7.552	78	668	36.29	ug/L #	28
25) 2-Fluorotoluene SCAN	11.032	109	69402	5194.80	ug/L	95
27) trans-1,2-Dichloroethe...	4.799	61	78	20.10	ug/L #	23
31) 1,1,1-Trichloroethane ...	6.517	97	444	95.16	ug/L #	26
32) Carbon tetrachloride SCAN	6.930	117	220	47.85	ug/L #	13
33) Benzene SCAN	7.514	78	3947	283.68	ug/L #	53
34) 1,2-Dichloroethane SCAN	7.538	62	121	25.50	ug/L #	39
36) Toluene-d8 SCAN	10.549	98	61452	5088.23	ug/L	89
37) Toluene SCAN	10.643	91	543	35.20	ug/L #	36
38) 1,1,2-Trichloroethane ...	11.556	97	367	124.14	ug/L #	10
41) 1,1,1,2-Tetrachloroeth...	12.661	131	114	34.13	ug/L #	1

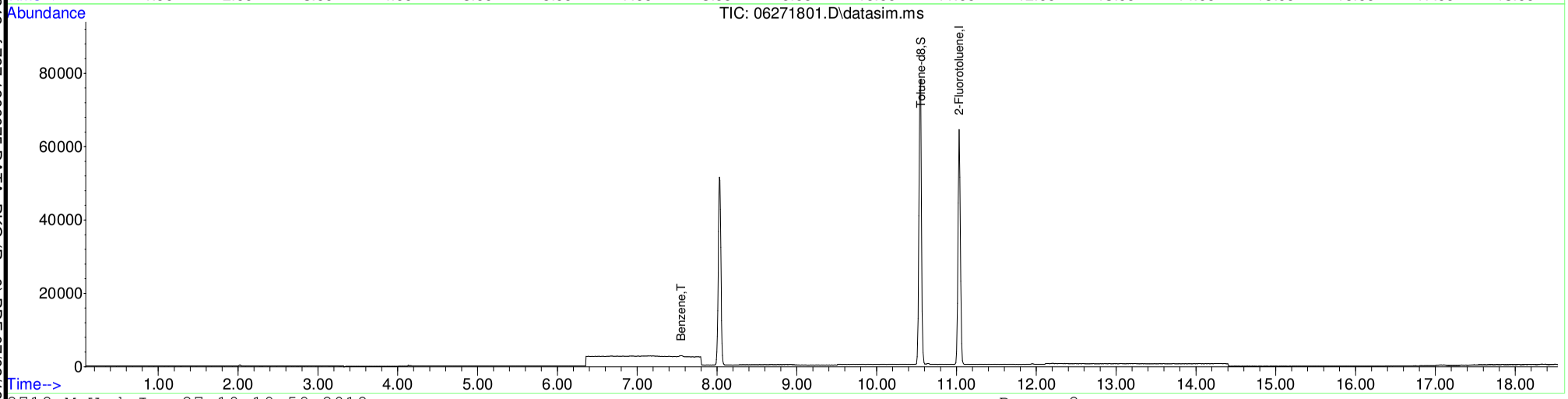
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271801.D
Acq On : 27 Jun 2018 9:06
InstName : AG5975C
Operator : TD
Sample : S18F083-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 09:25:53 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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S18F083-TUN1

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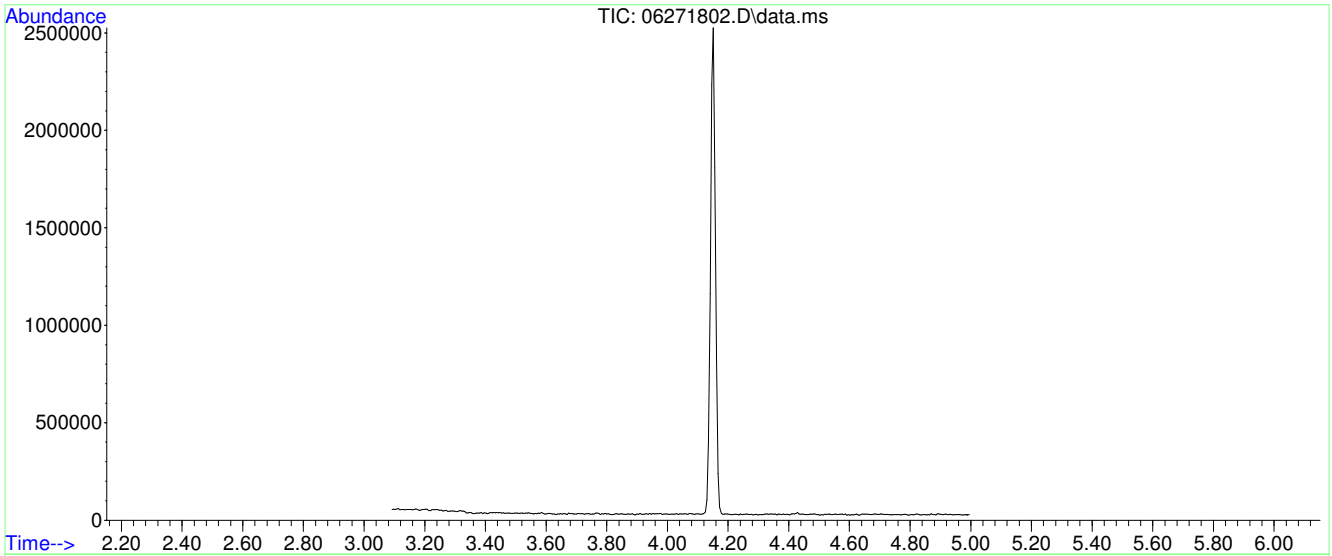
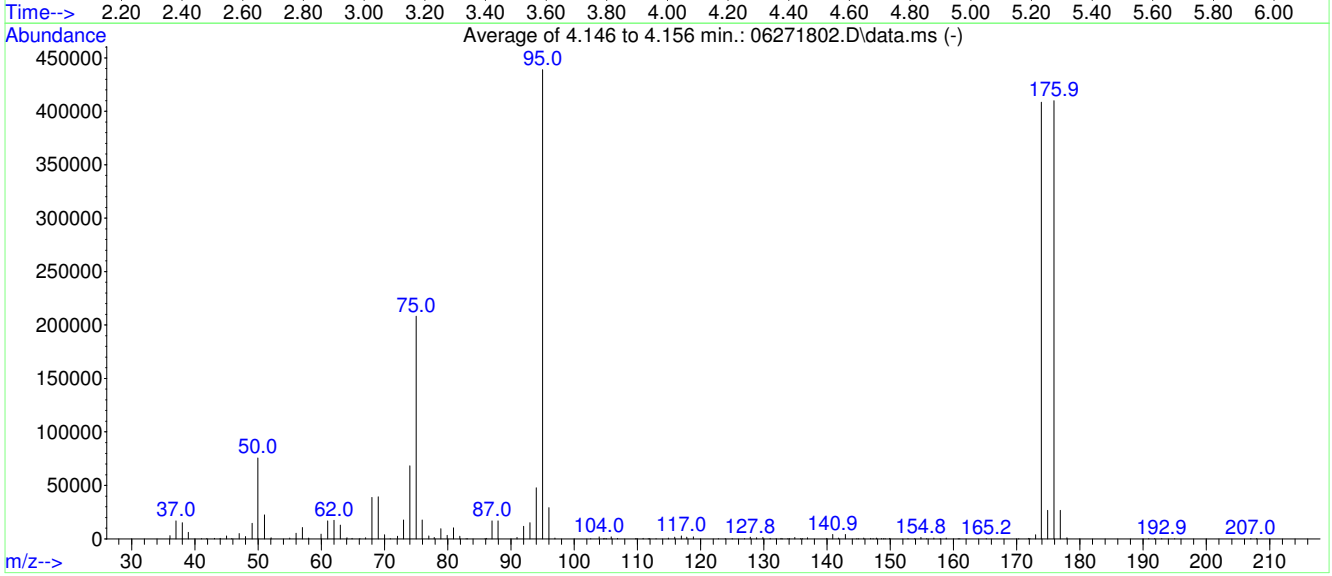
Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271802.D
Acq On : 27 Jun 2018 10:09
Operator : TD
Sample : S18F083-TUN1
Misc : BFB 1806045
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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	17.2	75697	PASS
75	95	30	60	47.4	208213	PASS
95	95	100	100	100.0	438869	PASS
96	95	5	9	6.7	29227	PASS
173	174	0.00	2	0.9	3709	PASS
174	95	50	120	93.1	408469	PASS
175	174	5	9	6.6	26760	PASS
176	174	95	101	100.3	409877	PASS
177	176	5	9	6.5	26678	PASS

Average of 4.146 to 4.156 min.: 06271802.D\data.ms
S18F083-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	3091	48.00	2165	62.00	17461	73.00	17499
37.00	16782	49.05	14470	63.00	12949	74.00	68227
38.00	14945	49.95	75697	64.05	917	75.00	208213
38.95	5943	51.00	22367	64.85	476	75.95	17477
41.05	102	52.05	1127	66.10	65	77.00	2802
41.90	96	55.00	578	67.00	876	77.85	1271
43.10	401	56.00	5169	68.00	38779	78.90	9524
44.00	487	57.00	10620	69.00	39373	79.90	3270
45.00	2809	58.00	704	70.00	3721	80.90	10279
45.85	189	59.95	4433	70.90	192	81.90	2352
47.00	4881	61.00	16887	72.05	2281	82.90	245

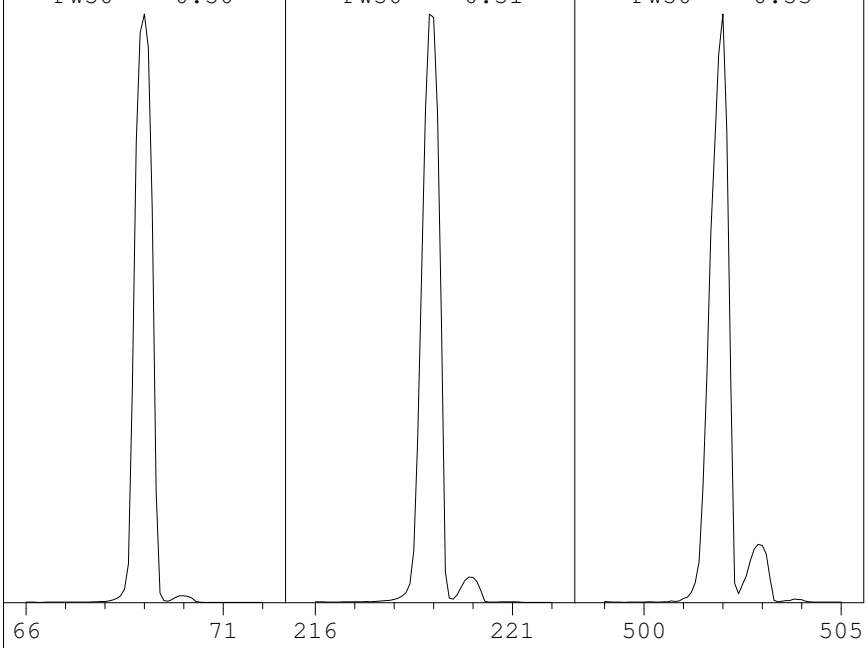
Average of 4.146 to 4.156 min.: 06271802.D\data.ms
S18F083-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.10	88	96.95	785	111.70	184	126.95	215
85.90	130	102.60	86	111.90	221	127.85	1480
86.15	311	103.95	1957	112.95	253	128.85	886
87.00	16770	104.60	59	114.90	625	129.85	1300
87.95	16836	104.85	523	115.90	1461	131.00	568
90.95	1346	105.10	124	116.95	2781	131.95	204
92.00	11817	105.85	1765	117.80	1434	132.70	318
93.00	15098	106.85	358	118.85	1878	132.90	184
94.00	47869	109.70	53	122.80	58	133.80	85
95.00	438869	109.90	147	123.90	294	134.05	143
96.00	29227	110.90	504	125.00	78	134.90	1237

Average of 4.146 to 4.156 min.: 06271802.D\data.ms
S18F083-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.80	57	147.30	59	157.90	68	175.90	409877
136.10	116	147.80	608	158.85	632	176.90	26678
136.90	875	148.60	65	160.75	194	177.95	888
139.95	318	148.95	177	161.00	253	190.90	198
140.90	4234	149.20	54	165.20	74	191.80	157
141.80	616	149.90	449	170.30	51	192.95	223
142.90	4214	152.80	252	171.90	541	195.00	159
144.70	53	153.85	234	172.10	167	207.00	225
145.00	250	154.85	1236	173.00	3709	207.95	43
145.80	760	155.75	140	173.90	408469		
146.90	443	156.90	843	174.90	26760		

Mass	69.00	Mass	218.90	Mass	502.00
Ab	944300	Ab	593511	Ab	21459
Pw50	0.50	Pw50	0.51	Pw50	0.53

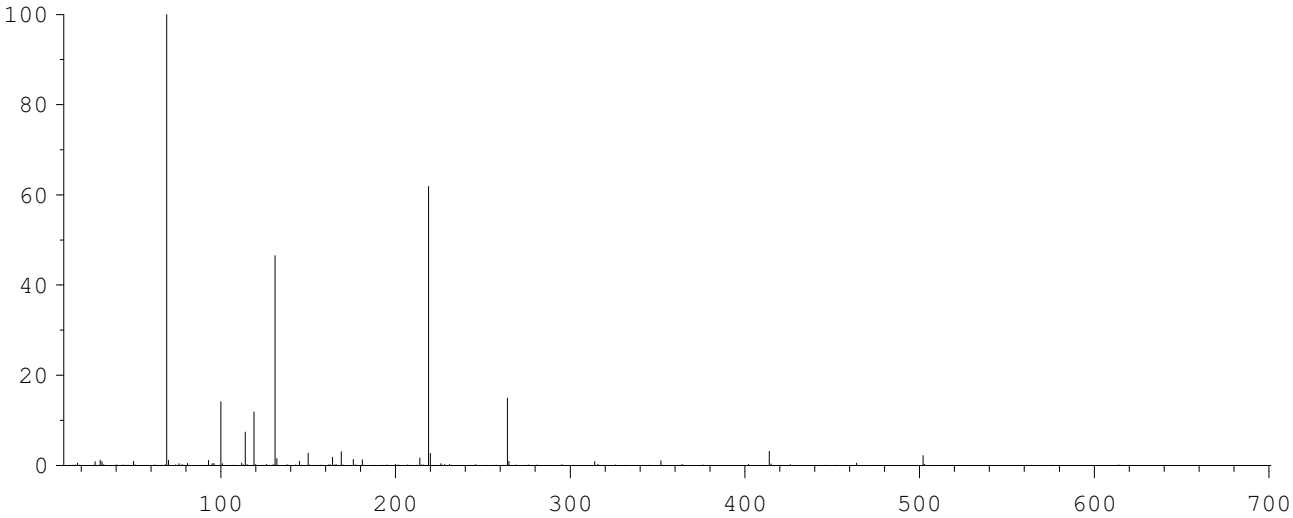


Ion Pol	Pos	MassGain	-1189
		MassOffs	-40
Emission	34.6	AmuGain	970
EIEnrgy	69.9	AmuOffs	129.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	70.2	HEDEnab	On
EntLens	0.0	EMVolts	1188
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

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
176 peaks Base: 69.00 Abundance: 908480



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	908480	100.00	70.00	9876	1.09
219.00	561920	61.85	220.00	24216	4.31
502.00	20000	2.20	503.00	2093	10.47

Air/Water Check: H20~0.51% N2~0.87% O2~0.81% CO2~0.07% N2/H2O~171.07%

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 57544
Repeller Maximum 30 volts using ion 219; Gain Factor 0.58

MassGain Values(Samples): -1181(3) -1176(2) -1161(1) -1122(0) -1079(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	46.5	61.9	3.1	2.2	

S18F083-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271803.D
Acq On : 27 Jun 2018 10:19
InstName : AG5975C
Operator : TD
Sample : S18F083-CCV1
Misc : 1823100 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 10:37:49 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 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	84	0.00
2	T	1,1-Dichloroethene	0.210	0.250	-19.0	91	0.00
3	T	trans-1,2-Dichloroethene	0.224	0.240	-7.1	83	-0.02
4	T	1,1-Dichloroethane	0.278	0.297	-6.8	83	-0.01
5	T	cis-1,2-Dichloroethene	0.275	0.272	1.1	79	0.00
6	T	Chloroform	0.296	0.283	4.4	78	-0.01
7	T	1,1,1-Trichloroethane	0.291	0.276	5.2	77	-0.01
8	T	Carbon tetrachloride	0.276	0.258	6.5	77	-0.01
9	T	Benzene	0.803	0.746	7.1	78	0.00
10	T	1,2-Dichloroethane	0.259	0.240	7.3	75	0.00
11	T	Trichloroethene	0.221	0.212	4.1	80	-0.01
12	S	Toluene-d8	0.812	0.799	1.6	84	-0.01
13	T	Toluene	1.089	1.010	7.3	85	0.00
14	T	1,1,2-Trichloroethane	0.225	0.217	3.6	85	0.00
15	T	Tetrachloroethene	0.307	0.304	1.0	87	0.00
16	T	Chlorobenzene	0.777	0.785	-1.0	90	0.00
17	T	1,1,1,2-Tetrachloroethane	0.264	0.262	0.8	88	0.00
18	T	Ethylbenzene	1.307	1.297	0.8	90	0.00
19	T	m&p-Xylene	1.009	1.007	0.2	91	0.00
20	T	o-Xylene	1.068	1.063	0.5	91	0.00
21	T	1,1,2,2-Tetrachloroethane	0.460	0.475	-3.3	93	0.00
22	T	1,3,5-Trimethylbenzene	1.209	1.199	0.8	94	0.00
23	T	1,2,4-Trimethylbenzene	1.209	1.226	-1.4	95	0.00
24	T	Naphthalene	1.984	2.038	-2.7	103	0.00
25		2-Fluorotoluene SCAN	0.583	0.610	-4.6	88	-0.01
26		1,1-Dichloroethene SCAN	0.145	0.170	-17.2	97	0.00
27		trans-1,2-Dichloroethene SC	0.169	0.171	-1.2	85	-0.03
28		1,1-Dichloroethane SCAN	0.215	0.241	-12.1	94	-0.02
29		cis-1,2-Dichloroethene SCAN	0.186	0.207	-11.3	93	-0.01
30		Chloroform SCAN	0.229	0.187	18.3	68	-0.01
31		1,1,1-Trichloroethane SCAN	0.203	0.229	-12.8	94	-0.01
32		Carbon tetrachloride SCAN	0.200	0.129	35.5#	54	-0.01
33		Benzene SCAN	0.607	0.579	4.6	80	-0.01
34		1,2-Dichloroethane SCAN	0.207	0.185	10.6	75	-0.01
35		Trichloroethene SCAN	0.148	0.128	13.5	72	-0.02
36		Toluene-d8 SCAN	0.527	0.510	3.2	81	-0.01
37		Toluene SCAN	0.673	0.754	-12.0	94	-0.01
38		1,1,2-Trichloroethane SCAN	0.129	0.180	-39.5#	117	0.00
39		Tetrachloroethene SCAN	0.148	0.178	-20.3	101	0.01
40		Chlorobenzene SCAN	0.408	0.447	-9.6	92	0.00
41		1,1,1,2-Tetrachloroethane S	0.146	0.154	-5.5	88	0.00
42		Ethylbenzene SCAN	0.782	0.750	4.1	80	0.00
43		m&p-Xylene SCAN	1.086	1.207	-11.1	93	0.00
44		o-Xylene SCAN	0.618	0.628	-1.6	85	0.00
45		1,1,2,2-Tetrachloroethane S	0.293	0.325	-10.9	93	-0.01
46		1,3,5-Trimethylbenzene SCAN	0.613	0.728	-18.8	99	0.00
47		1,2,4-Trimethylbenzene SCAN	0.628	0.741	-18.0	99	0.00
48		Naphthalene SCAN	0.896	1.144	-27.7	107	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\062718\
Data File : 06271803.D
Acq On : 27 Jun 2018 10:19
InstName : AG5975C
Operator : TD
Sample : S18F083-CCV1
Misc : 1823100 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 10:37:49 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

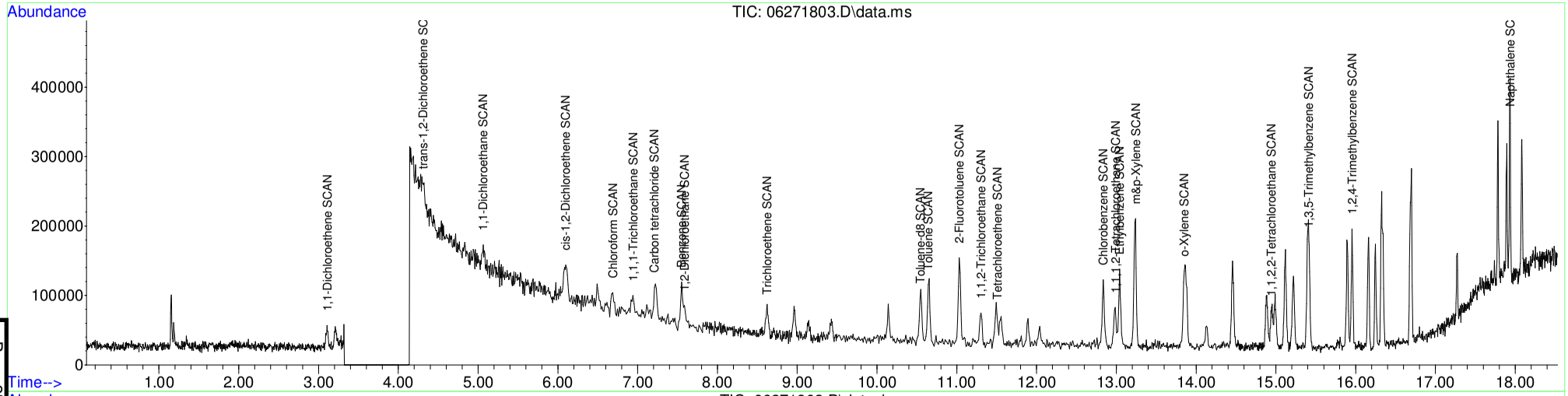
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	104652	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	83662	4921.68 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 98.43%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	26181	5969.63 ug/L	99
3] trans-1,2-Dichloroethene	4.303	61	25070	5357.31 ug/L	100
4] 1,1-Dichloroethane	5.066	63	31032	5327.88 ug/L	100
5] cis-1,2-Dichloroethene	6.101	61	28507	4961.31 ug/L	100
6] Chloroform	6.676	83	29621	4787.69 ug/L	99
7] 1,1,1-Trichloroethane	6.931	97	28895	4744.90 ug/L	98
8] Carbon tetrachloride	7.211	117	26988	4678.57 ug/L	99
9] Benzene	7.552	78	78103	4648.17 ug/L	100
10] 1,2-Dichloroethane	7.588	62	25168	4647.59 ug/L	96
11] Trichloroethene	8.618	130	22188	4804.54 ug/L	99
13] Toluene	10.645	91	105689	4637.20 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	22699	4818.51 ug/L	99
15] Tetrachloroethene	11.495	166	31781	4949.23 ug/L	99
16] Chlorobenzene	12.837	112	82119	5048.20 ug/L	98
17] 1,1,1,2-Tetrachloroethane	12.980	131	27432	4969.15 ug/L	100
18] Ethylbenzene	13.035	91	135729	4962.49 ug/L	100
19] m&p-Xylene	13.234	91	210735	9982.80 ug/L	100
20] o-Xylene	13.846	91	111276	4977.23 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.947	83	49714	5163.30 ug/L	100
22] 1,3,5-Trimethylbenzene	15.414	105	125483	4960.53 ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	128283	5069.73 ug/L	99
24] Naphthalene	17.932	128	213327	5137.22 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	63867	5237.25 ug/L	98
26) 1,1-Dichloroethene SCAN	3.107	61	17739	5829.43 ug/L	78
27) trans-1,2-Dichloroethe...	4.308	61	17923	5059.20 ug/L	90
28) 1,1-Dichloroethane SCAN	5.065	63	25239	5600.13 ug/L	87
29) cis-1,2-Dichloroethene...	6.100	61	21678	5561.66 ug/L #	53
30) Chloroform SCAN	6.687	83	19570	4090.50 ug/L	87
31) 1,1,1-Trichloroethane ...	6.942	97	24010	5637.64 ug/L	89
32) Carbon tetrachloride SCAN	7.210	117	13462	3208.01 ug/L	86
33) Benzene SCAN	7.550	78	60552	4767.78 ug/L	94
34) 1,2-Dichloroethane SCAN	7.587	62	19370	4472.17 ug/L	79
35) Trichloroethene SCAN	8.617	130	13344	4293.65 ug/L	88
36) Toluene-d8 SCAN	10.538	98	53411	4844.97 ug/L	100
37) Toluene SCAN	10.643	91	78858	5599.90 ug/L	96
38) 1,1,2-Trichloroethane ...	11.305	97	18847	6984.42 ug/L #	86
39) Tetrachloroethene SCAN	11.504	166	18588	6015.28 ug/L	88
40) Chlorobenzene SCAN	12.835	112	46812	5479.91 ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.986	131	16102	5280.75 ug/L	79
42) Ethylbenzene SCAN	13.042	91	78448	4792.55 ug/L	98
43) m&p-Xylene SCAN	13.241	91	126357	5561.30 ug/L	95
44) o-Xylene SCAN	13.852	91	65734	5083.11 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.938	83	34052	5555.77 ug/L	95
46) 1,3,5-Trimethylbenzene...	15.413	105	76197	5942.65 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.954	105	77536	5900.50 ug/L	99
48) Naphthalene SCAN	17.935	128	119694	6384.02 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271803.D
Acq On : 27 Jun 2018 10:19
InstName : AG5975C
Operator : TD
Sample : S18F083-CCV1
Misc : 1823100 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 10:37:49 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration



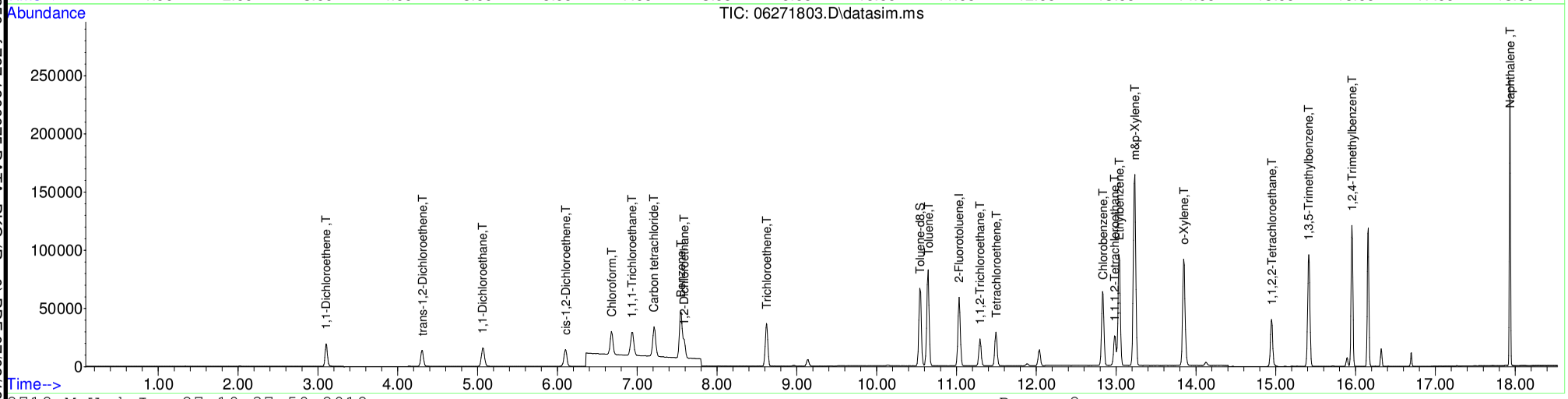


Table of Contents

S18F083-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S18F083-CRL1
Misc Info: 1823102 0.15 mg/L
Date Acquired: 6/27/18 10:42
QLast Update: Thu Jun 14 17:09:21 2018
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
9)	Benzene	7.552	150.0	173.01	115%	60	140	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271804.D
Acq On : 27 Jun 2018 10:42
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL1
Misc : 1823102 0.15 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 11:01:23 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

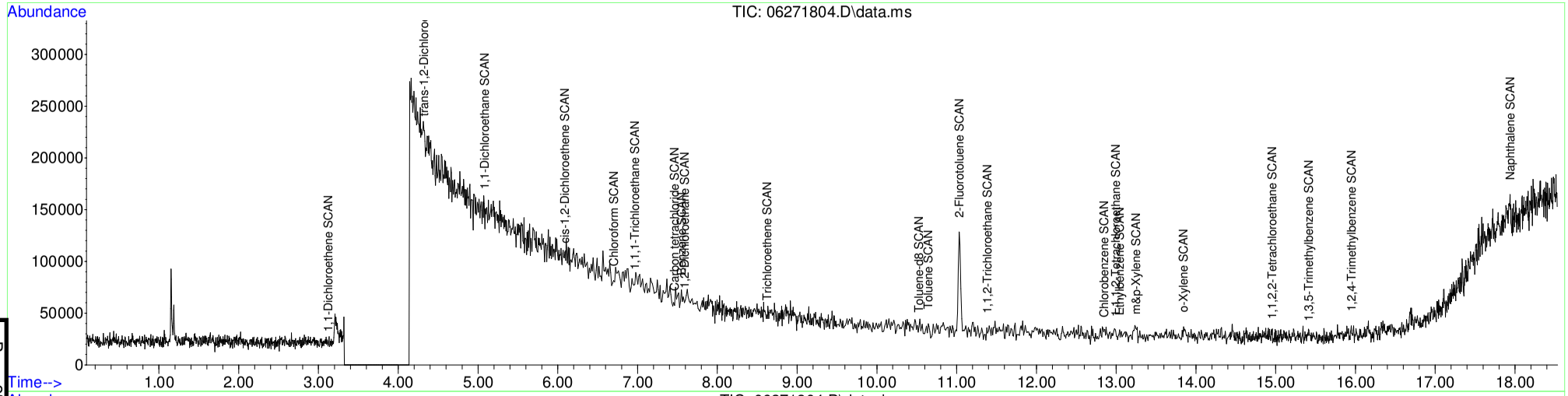
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	11.033	109	118835	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.540	98	2955	153.09	ug/L		-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 3.06%#				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.104	61	1489	298.99	ug/L		97
3] trans-1,2-Dichloroethene	4.303	61	926	174.26	ug/L		89
4] 1,1-Dichloroethane	5.072	63	1176	177.81	ug/L		94
5] cis-1,2-Dichloroethene	6.101	61	1048	160.62	ug/L		86
6] Chloroform	6.676	83	1180	167.96	ug/L		94
7] 1,1,1-Trichloroethane	6.944	97	1106	159.94	ug/L		95
8] Carbon tetrachloride	7.211	117	965	147.32	ug/L		85
9] Benzene	7.552	78	3301	173.01	ug/L		55
10] 1,2-Dichloroethane	7.588	62	940	152.87	ug/L	#	33
11] Trichloroethene	8.624	130	818	155.99	ug/L		90
13] Toluene	10.645	91	4048	156.41	ug/L		97
14] 1,1,2-Trichloroethane	11.295	97	841	157.22	ug/L		86
15] Tetrachloroethene	11.495	166	1137	155.93	ug/L		93
16] Chlorobenzene	12.837	112	2879	155.86	ug/L		91
17] 1,1,1,2-Tetrachloroethane	12.980	131	1052	167.82	ug/L		99
18] Ethylbenzene	13.035	91	4916	158.29	ug/L		98
19] m&p-Xylene	13.234	91	7581	316.26	ug/L		99
20] o-Xylene	13.846	91	4053	159.65	ug/L		99
21] 1,1,2,2-Tetrachloroethane	14.947	83	1775	162.35	ug/L		99
22] 1,3,5-Trimethylbenzene	15.413	105	4543	158.16	ug/L		99
23] 1,2,4-Trimethylbenzene	15.954	105	4752	165.38	ug/L		99
24] Naphthalene	17.932	128	8218	174.28	ug/L		92
25) 2-Fluorotoluene SCAN	11.032	109	72864	5261.91	ug/L		94
26) 1,1-Dichloroethene SCAN	3.118	61	171	49.49	ug/L	#	1
27) trans-1,2-Dichloroethe...	4.321	61	825	205.08	ug/L	#	23
28) 1,1-Dichloroethane SCAN	5.078	63	280	54.71	ug/L	#	1
29) cis-1,2-Dichloroethene...	6.080	61	140	31.63	ug/L	#	1
30) Chloroform SCAN	6.699	83	683	125.72	ug/L	#	24
31) 1,1,1-Trichloroethane ...	6.967	97	476	98.43	ug/L	#	26
32) Carbon tetrachloride SCAN	7.465	117	193	40.50	ug/L	#	13
33) Benzene SCAN	7.550	78	3833	265.78	ug/L	#	58
34) 1,2-Dichloroethane SCAN	7.587	62	955	194.18	ug/L	#	39
35) Trichloroethene SCAN	8.623	130	303	85.86	ug/L	#	53
36) Toluene-d8 SCAN	10.528	98	1848	147.63	ug/L	#	15
37) Toluene SCAN	10.643	91	3976	248.65	ug/L	#	31
38) 1,1,2-Trichloroethane ...	11.378	97	310	101.17	ug/L	#	10
40) Chlorobenzene SCAN	12.843	112	921	94.95	ug/L	#	1
41) 1,1,1,2-Tetrachloroeth...	12.994	131	202	58.34	ug/L	#	1
42) Ethylbenzene SCAN	13.042	91	4545	244.52	ug/L	#	49
43) m&p-Xylene SCAN	13.249	91	5882	227.98	ug/L	#	47
44) o-Xylene SCAN	13.844	91	3289	223.98	ug/L		88
45) 1,1,2,2-Tetrachloroeth...	14.953	83	1620	232.77	ug/L	#	67
46) 1,3,5-Trimethylbenzene...	15.407	105	1237	84.96	ug/L	#	81
47) 1,2,4-Trimethylbenzene...	15.948	105	1950	130.68	ug/L	#	42
48) Naphthalene SCAN	17.938	128	6311	296.43	ug/L		86

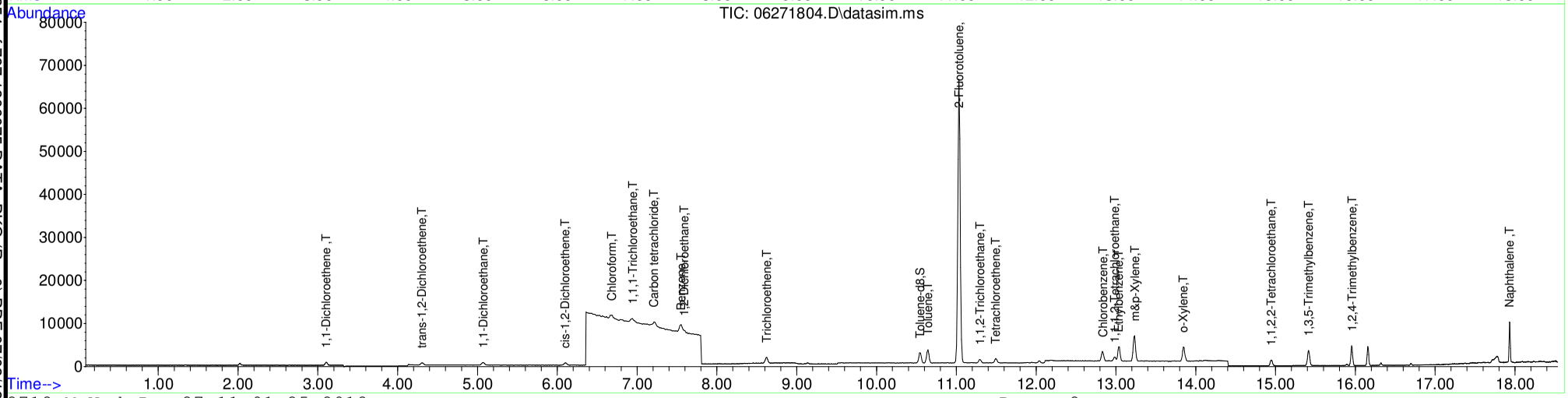
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271804.D
Acq On : 27 Jun 2018 10:42
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL1
Misc : 1823102 0.15 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 11:01:23 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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S18F083-CRL2

QLS REPORT

Instrument Name: AG5975C
Sample Name: S18F083-CRL2
Misc Info: 1823103 0.05 mg/L
Date Acquired: 6/27/18 11:06
QLast Update: Thu Jun 14 17:09:21 2018
Operator: TD

#	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	45.04	90%	60	140	pass
3)	trans-1,2-Dichloroethene	4.323	50.0	49.97	100%	60	140	pass
4)	1,1-Dichloroethane	5.079	50.0	51.35	103%	60	140	pass
5)	cis-1,2-Dichloroethene	6.108	50.0	49.59	99%	60	140	pass
6)	Chloroform	6.688	50.0	63.12	126%	60	140	pass
7)	1,1,1-Trichloroethane	6.944	50.0	53.13	106%	60	140	pass
8)	Carbon tetrachloride	7.223	50.0	51.66	103%	60	140	pass
10)	1,2-Dichloroethane	7.588	50.0	47.16	94%	60	140	pass
11)	Trichloroethene	8.629	50.0	53.83	108%	60	140	pass
12)	Toluene-d8	10.550	50.0	53.09	106%	60	140	pass
13)	Toluene	10.645	50.0	59.92	120%	60	140	pass
14)	1,1,2-Trichloroethane	11.295	50.0	52.29	105%	60	140	pass
15)	Tetrachloroethene	11.495	50.0	54.89	110%	60	140	pass
16)	Chlorobenzene	12.837	50.0	52.69	105%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.988	50.0	54.80	110%	60	140	pass
18)	Ethylbenzene	13.043	50.0	54.00	108%	60	140	pass
19)	m&p-Xylene	13.234	100.0	105.34	105%	60	140	pass
20)	o-Xylene	13.854	50.0	55.47	111%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.951	50.0	54.64	109%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.414	50.0	53.76	108%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.955	50.0	56.28	113%	60	140	pass
24)	Naphthalene	17.936	50.0	60.06	120%	60	140	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271805.D
Acq On : 27 Jun 2018 11:06
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 11:25:05 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

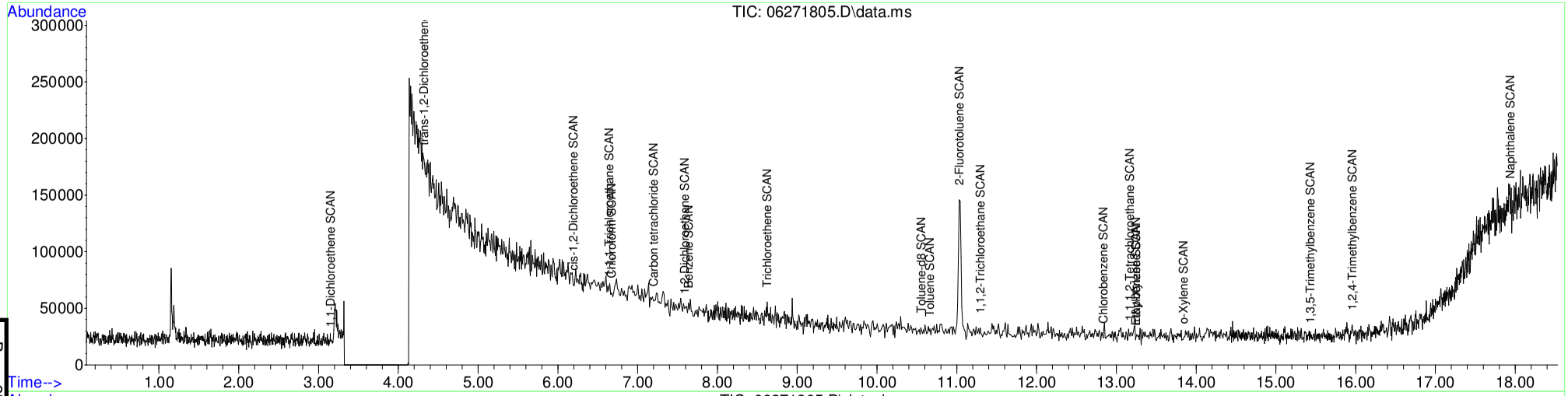
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	184385	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	1590	53.09 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.06%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	1005	130.06 ug/L	62
3] trans-1,2-Dichloroethene	4.309	61	412	49.97 ug/L	72
4] 1,1-Dichloroethane	5.066	63	527	51.35 ug/L	84
5] cis-1,2-Dichloroethene	6.101	61	502	49.59 ug/L	92
6] Chloroform	6.676	83	688	63.12 ug/L	92
7] 1,1,1-Trichloroethane	6.944	97	570	53.13 ug/L	87
8] Carbon tetrachloride	7.211	117	525	51.66 ug/L	97
9] Benzene	7.540	78	2452	82.82 ug/L	65
10] 1,2-Dichloroethane	7.588	62	450	47.16 ug/L	67
11] Trichloroethene	8.624	130	438	53.83 ug/L	91
13] Toluene	10.645	91	2406	59.92 ug/L	96
14] 1,1,2-Trichloroethane	11.295	97	434	52.29 ug/L	71
15] Tetrachloroethene	11.495	166	621	54.89 ug/L	92
16] Chlorobenzene	12.837	112	1510	52.69 ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.980	131	533	54.80 ug/L #	65
18] Ethylbenzene	13.035	91	2602	54.00 ug/L	93
19] m&p-Xylene	13.234	91	3918	105.34 ug/L	96
20] o-Xylene	13.846	91	2185	55.47 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.947	83	927	54.64 ug/L	98
22] 1,3,5-Trimethylbenzene	15.413	105	2396	53.76 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	2509	56.28 ug/L	98
24] Naphthalene	17.936	128	4394	60.06 ug/L	92
25) 2-Fluorotoluene SCAN	11.032	109	111042	5168.16 ug/L	95
26) 1,1-Dichloroethene SCAN	3.152	61	140	26.11 ug/L #	30
27) trans-1,2-Dichloroethe...	4.321	61	131	20.99 ug/L #	23
29) cis-1,2-Dichloroethene...	6.193	61	331	48.20 ug/L #	44
30) Chloroform SCAN	6.675	83	914	108.43 ug/L #	38
31) 1,1,1-Trichloroethane ...	6.638	97	999	133.14 ug/L #	26
32) Carbon tetrachloride SCAN	7.198	117	291	39.36 ug/L #	13
33) Benzene SCAN	7.636	78	9476	423.48 ug/L	65
34) 1,2-Dichloroethane SCAN	7.587	62	1429	187.26 ug/L #	29
35) Trichloroethene SCAN	8.623	130	307	56.07 ug/L #	16
36) Toluene-d8 SCAN	10.549	98	1651	85.00 ug/L #	15
37) Toluene SCAN	10.654	91	1703	68.64 ug/L #	41
38) 1,1,2-Trichloroethane ...	11.294	97	127	26.71 ug/L #	1
40) Chlorobenzene SCAN	12.836	112	358	23.79 ug/L #	34
41) 1,1,1,2-Tetrachloroeth...	13.161	131	489	91.02 ug/L #	13
42) Ethylbenzene SCAN	13.241	91	4742	164.43 ug/L	72
43) m&p-Xylene SCAN	13.241	91	4742	118.46 ug/L #	65
44) o-Xylene SCAN	13.844	91	1637	71.85 ug/L #	45
46) 1,3,5-Trimethylbenzene...	15.426	105	882	39.04 ug/L	83
47) 1,2,4-Trimethylbenzene...	15.958	105	1984	85.69 ug/L #	21
48) Naphthalene SCAN	17.935	128	2461	74.50 ug/L	65

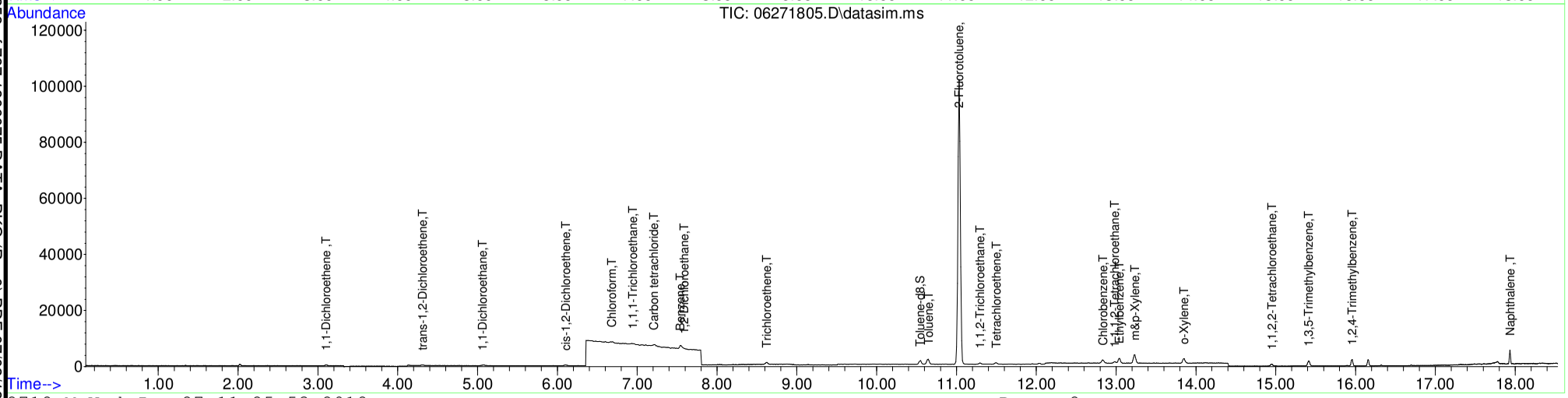
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271805.D
Acq On : 27 Jun 2018 11:06
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 11:25:05 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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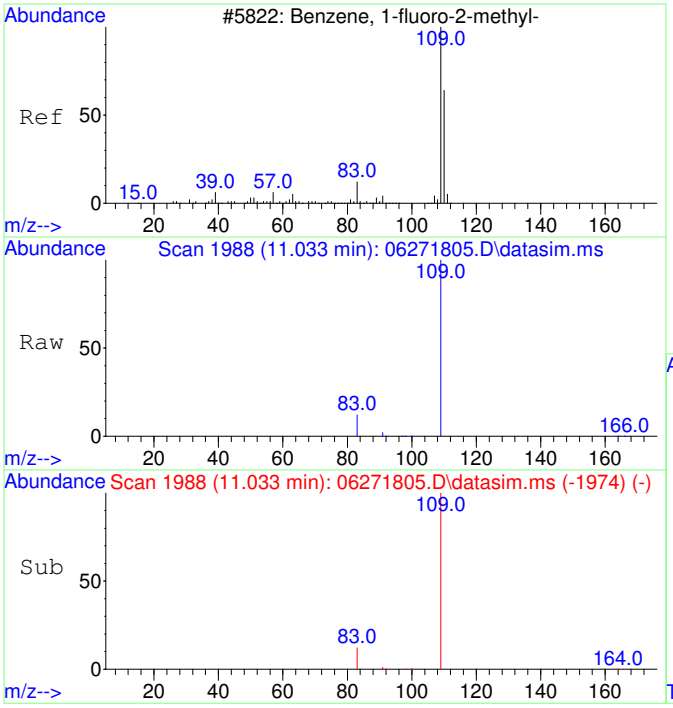
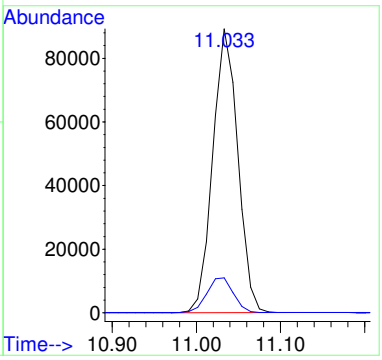
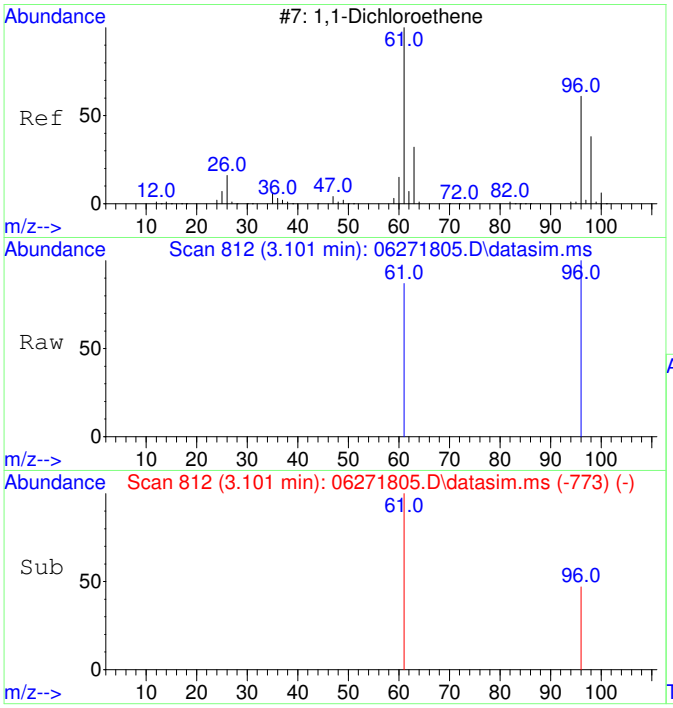


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:109 Resp: 184385

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.7

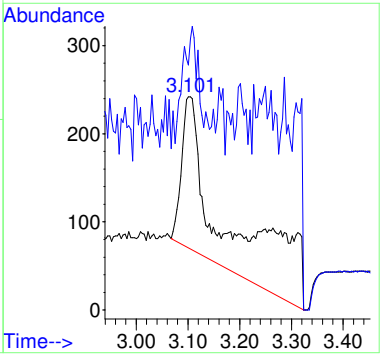




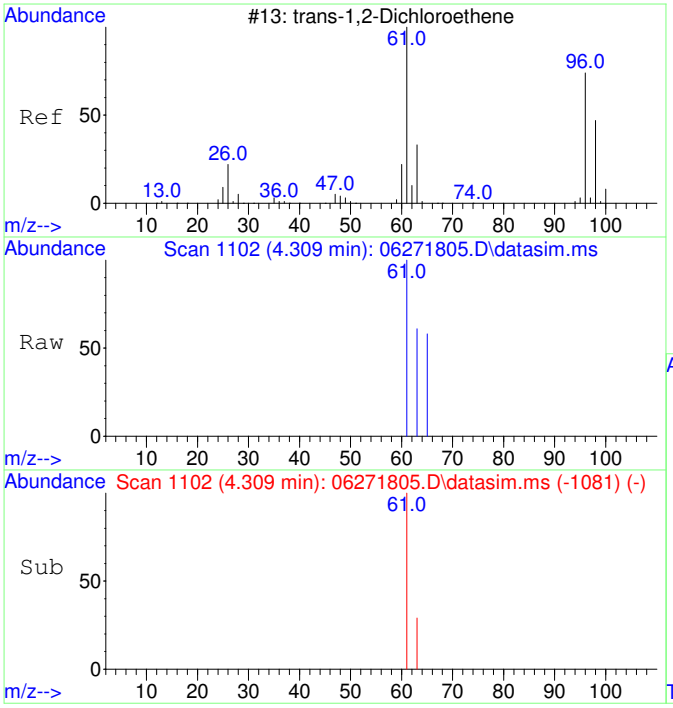
#2
1,1-Dichloroethene
Concen: 130.06 ug/L
RT: 3.101 min Scan# 812
Delta R.T. -0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 1005

Ion	Ratio	Lower	Upper
61	100		
96	30.2	28.7	88.7



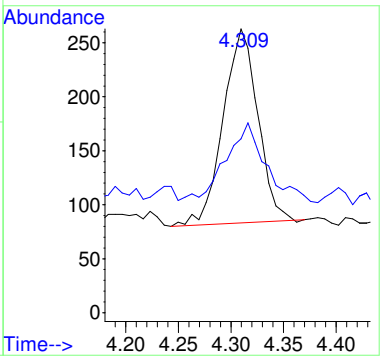
Before MI:
IMPROPER
BASELINE

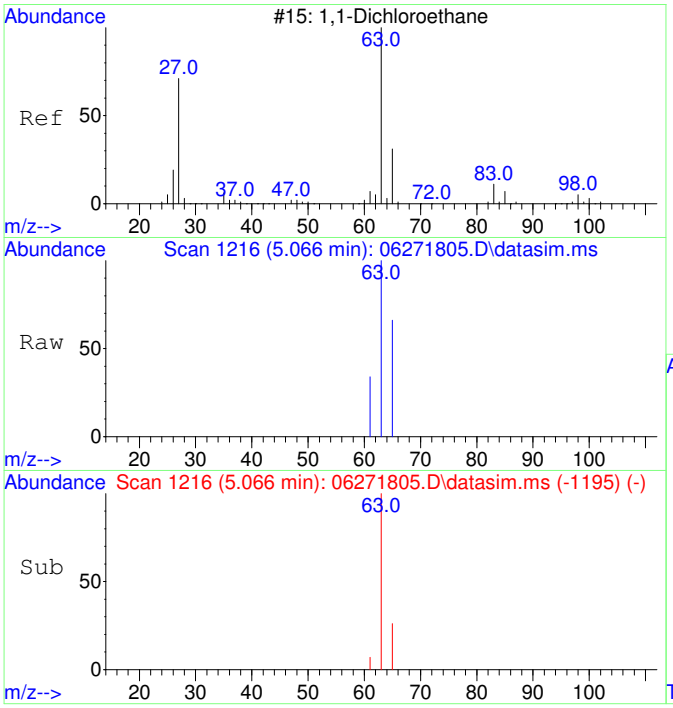


#3
trans-1,2-Dichloroethene
Concen: 49.97 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 412

Ion	Ratio	Lower	Upper
61	100		
63	47.8	2.0	62.0

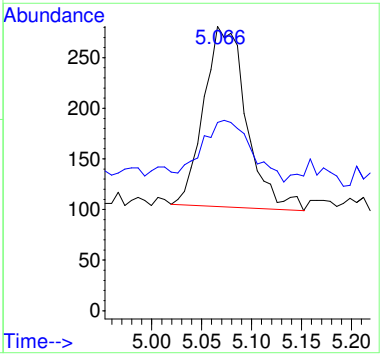


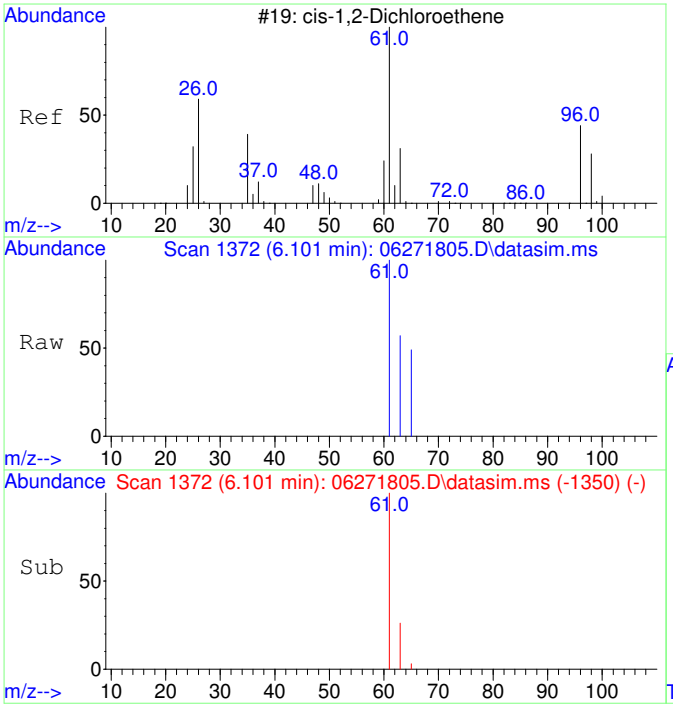


#4
1,1-Dichloroethane
Concen: 51.35 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 63 Resp: 527

Ion	Ratio	Lower	Upper
63	100		
65	40.4	1.5	61.5

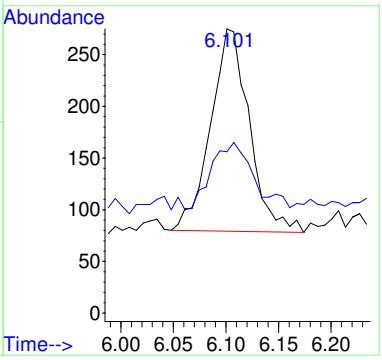


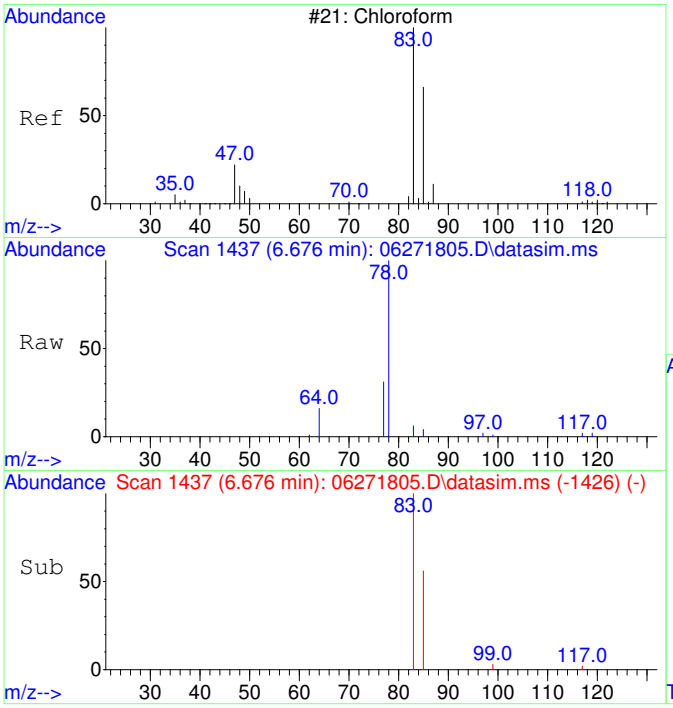


#5
cis-1,2-Dichloroethene
Concen: 49.59 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 502

Ion	Ratio	Lower	Upper
61	100		
63	36.9	2.2	62.2

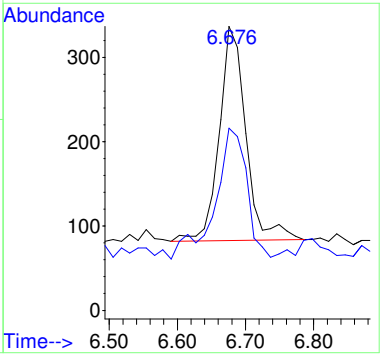


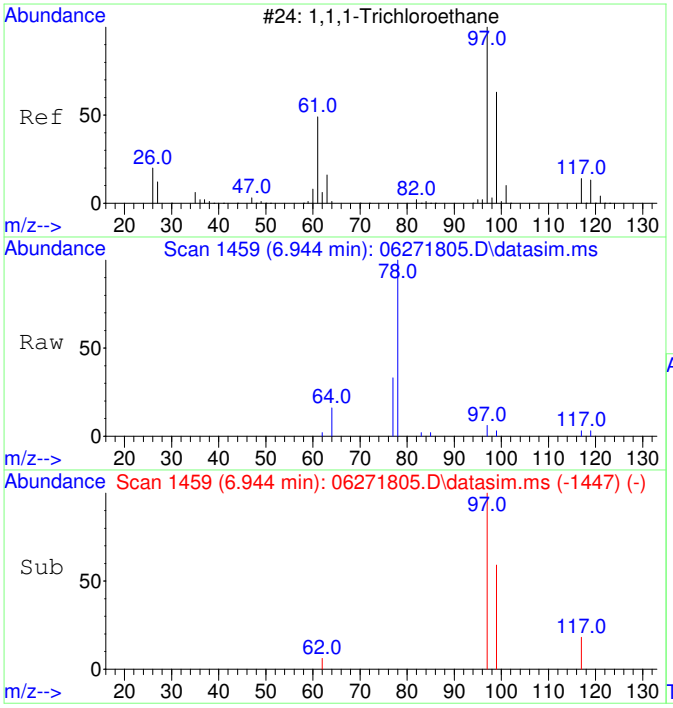


#6
Chloroform
Concen: 63.12 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 688

Ion	Ratio	Lower	Upper
83	100		
85	71.1	34.8	94.8

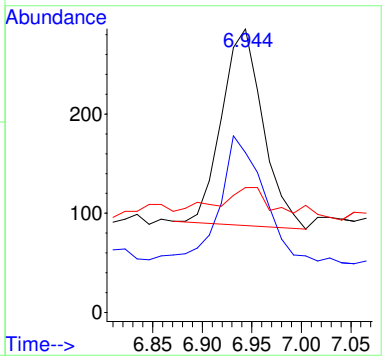


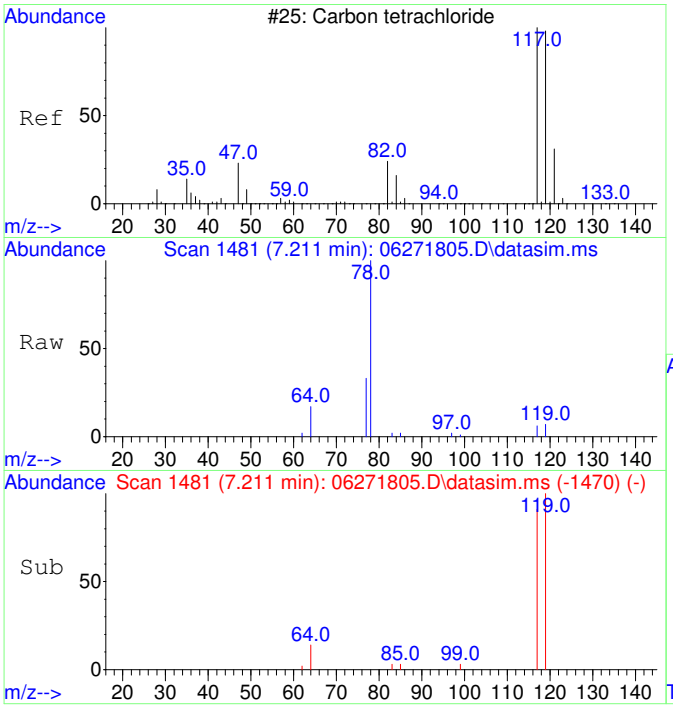


#7
1,1,1-Trichloroethane
Concen: 53.13 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 570

Ion	Ratio	Lower	Upper
97	100		
99	71.6	34.6	94.6
117	26.3	0.0	42.9

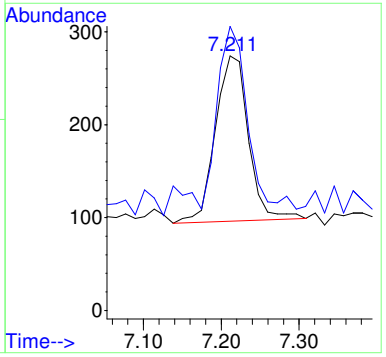


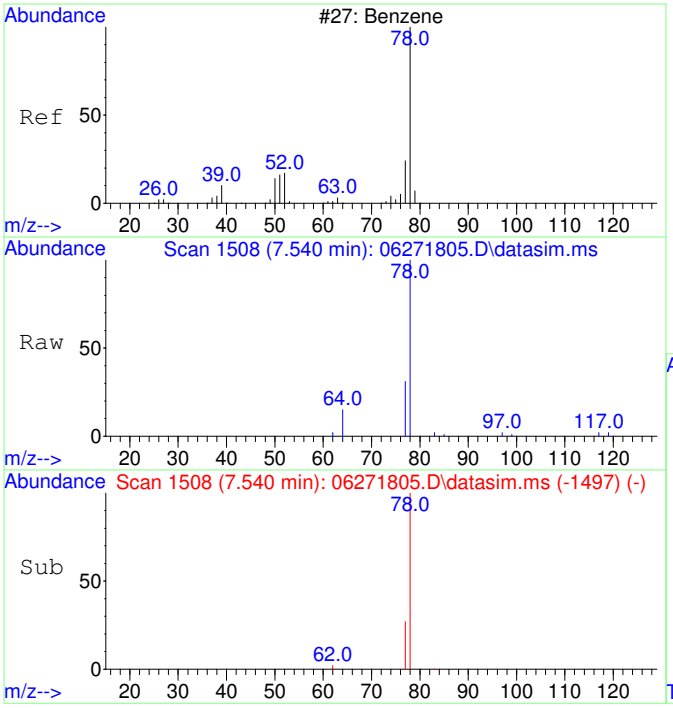


#8
Carbon tetrachloride
Concen: 51.66 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:117 Resp: 525

Ion	Ratio	Lower	Upper
117	100		
119	98.9	65.9	125.9

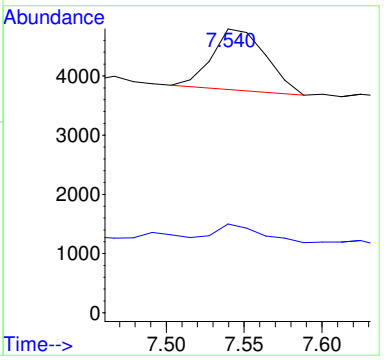


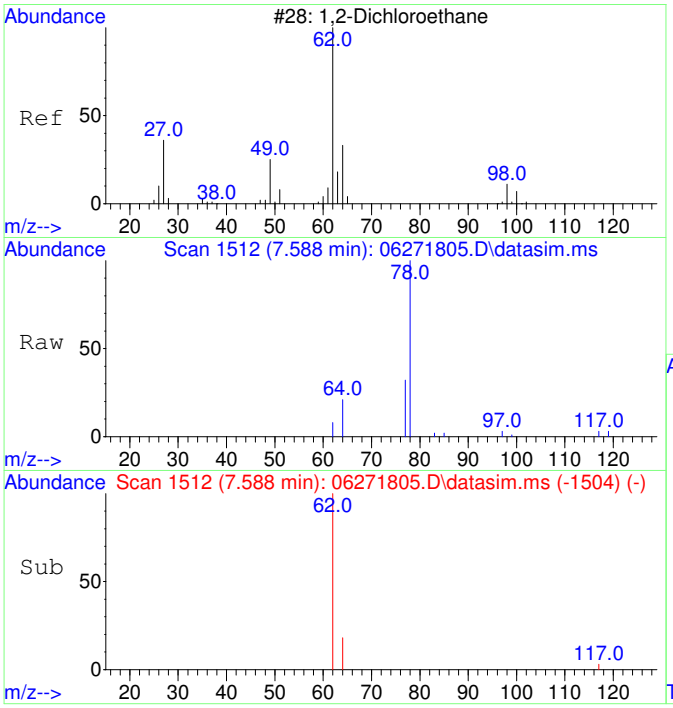


#9
Benzene
Concen: 82.82 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 78 Resp: 2452

Ion	Ratio	Lower	Upper
78	100		
77	40.1	0.0	53.0

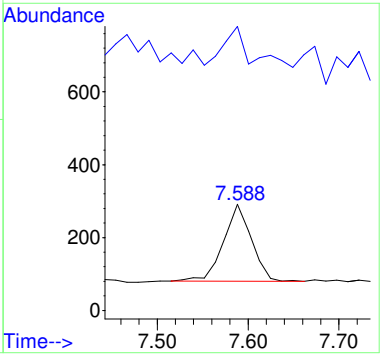


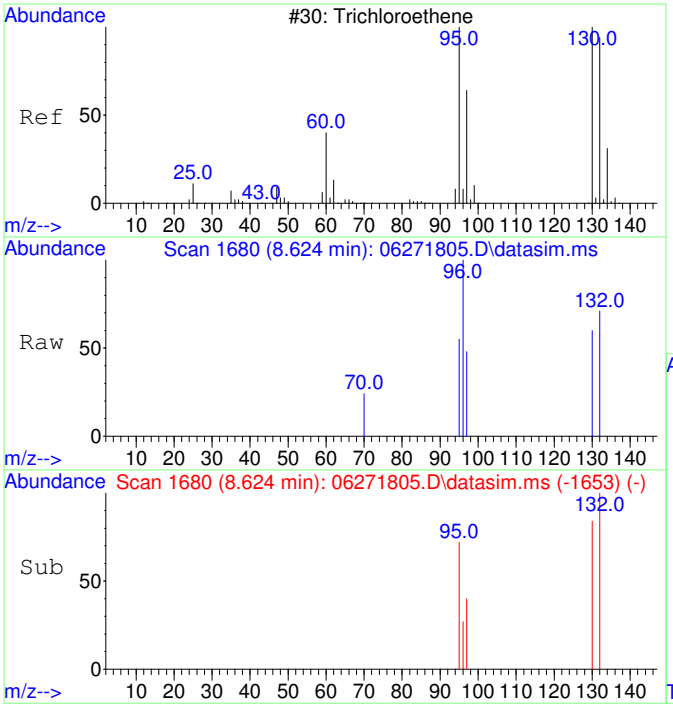


#10
1,2-Dichloroethane
Concen: 47.16 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 62 Resp: 450

Ion	Ratio	Lower	Upper
62	100		
64	50.7	2.3	62.3

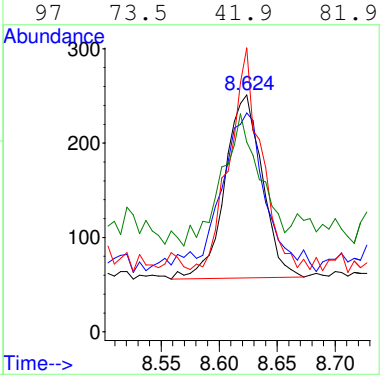


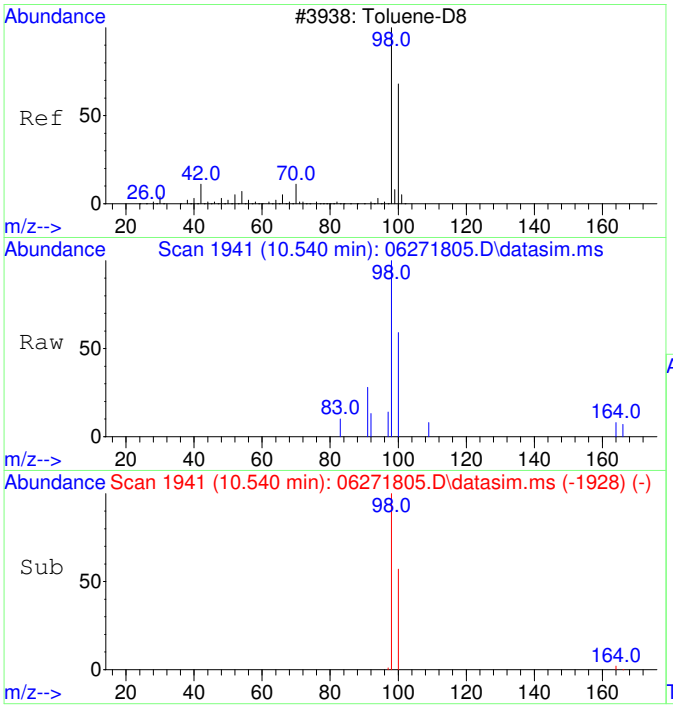


#11
Trichloroethene
Concen: 53.83 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:130 Resp: 438

Ion	Ratio	Lower	Upper
130	100		
95	105.7	66.0	126.0
132	102.3	78.8	118.8
97	73.5	41.9	81.9

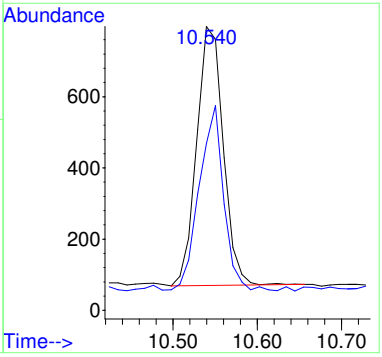


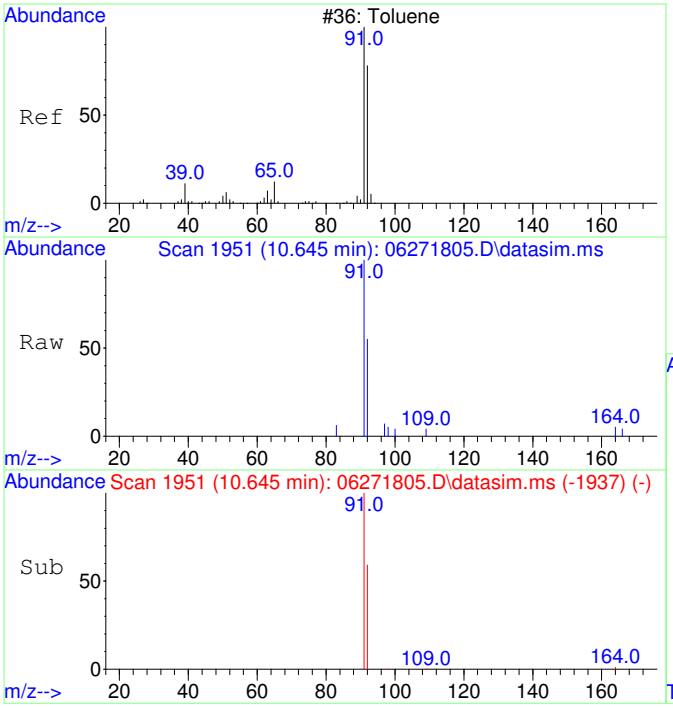


#12
Toluene-d8
Concen: 53.09 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 98 Resp: 1590

Ion	Ratio	Lower	Upper
98	100		
100	65.6	38.7	98.7

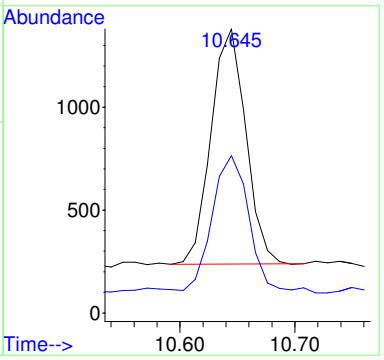


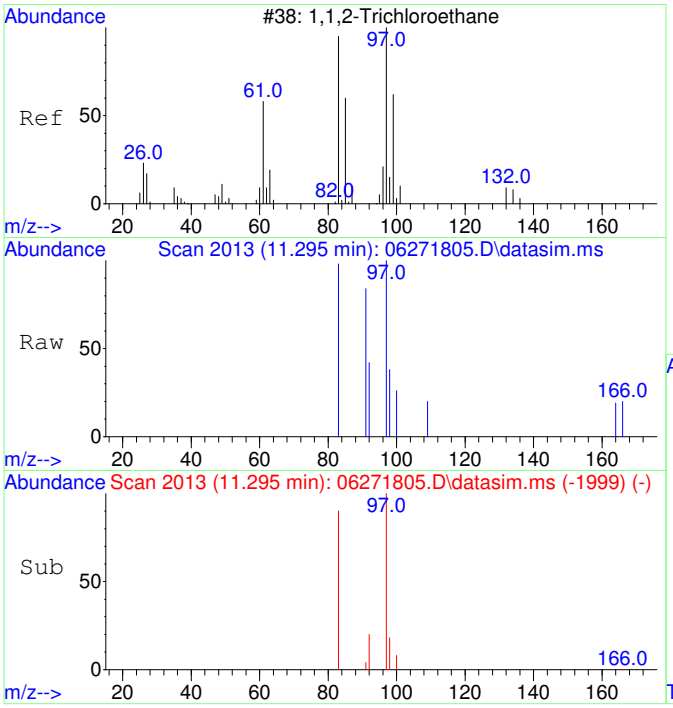


#13
Toluene
Concen: 59.92 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2406

Ion	Ratio	Lower	Upper
91	100		
92	63.2	30.0	90.0

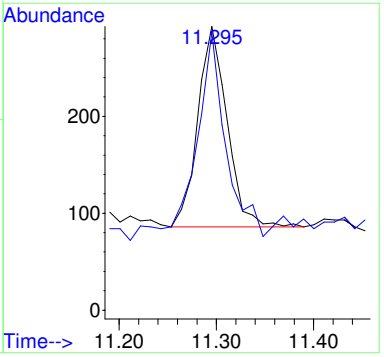


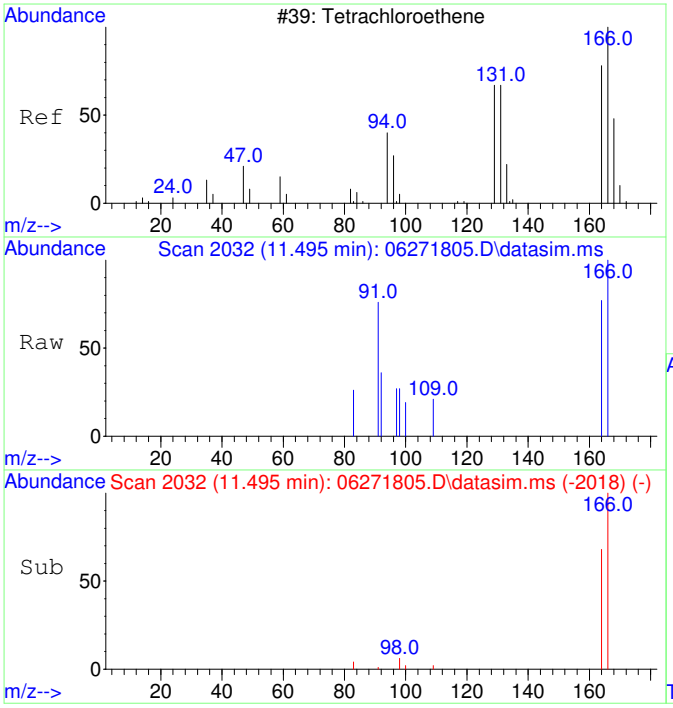


#14
1,1,2-Trichloroethane
Concen: 52.29 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 434

Ion	Ratio	Lower	Upper
97	100		
83	109.2	53.4	113.4

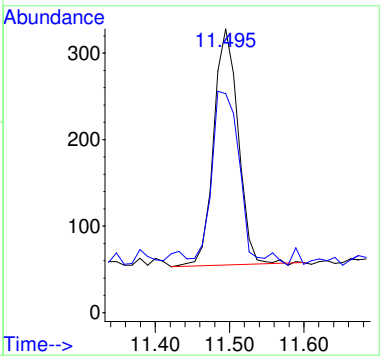


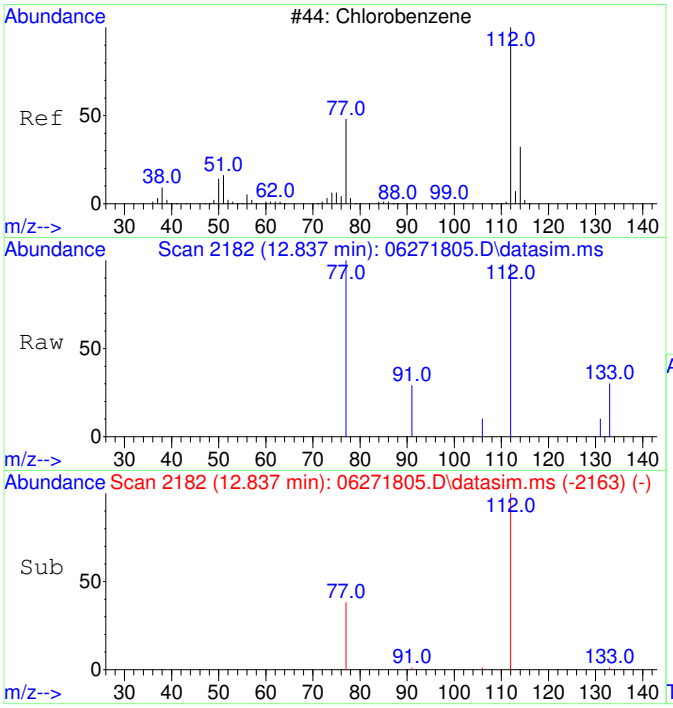


#15
Tetrachloroethene
Concen: 54.89 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:166 Resp: 621

Ion	Ratio	Lower	Upper
166	100		
164	84.9	47.8	107.8

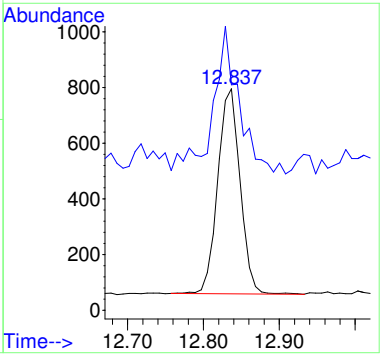


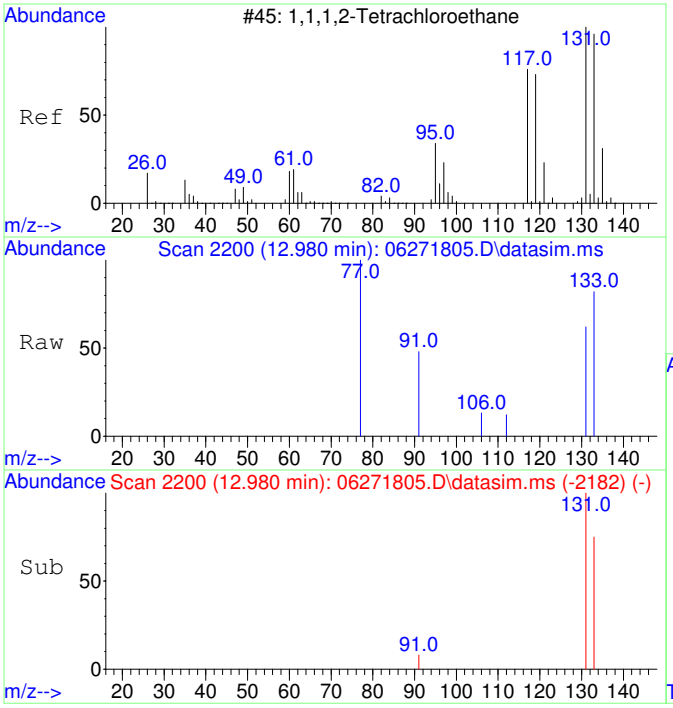


#16
Chlorobenzene
Concen: 52.69 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:112 Resp: 1510

Ion	Ratio	Lower	Upper
112	100		
77	73.7	28.1	88.1

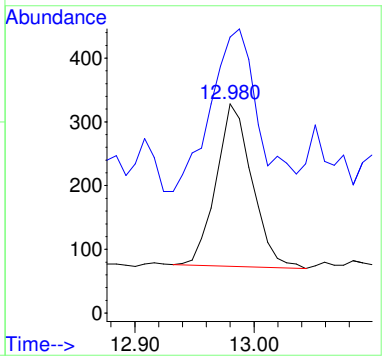


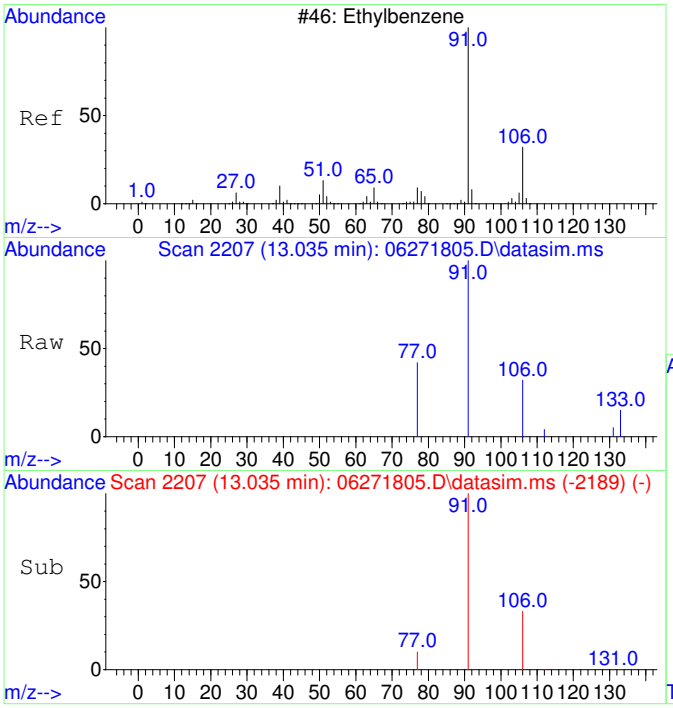


#17
1,1,1,2-Tetrachloroethane
Concen: 54.80 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:131 Resp: 533

Ion	Ratio	Lower	Upper
131	100		
133	130.6	66.2	126.2#

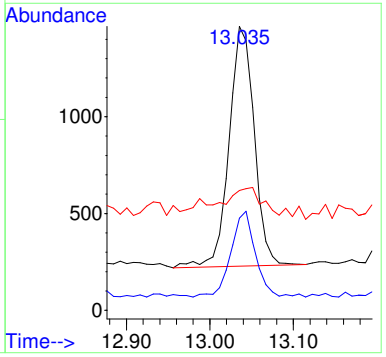


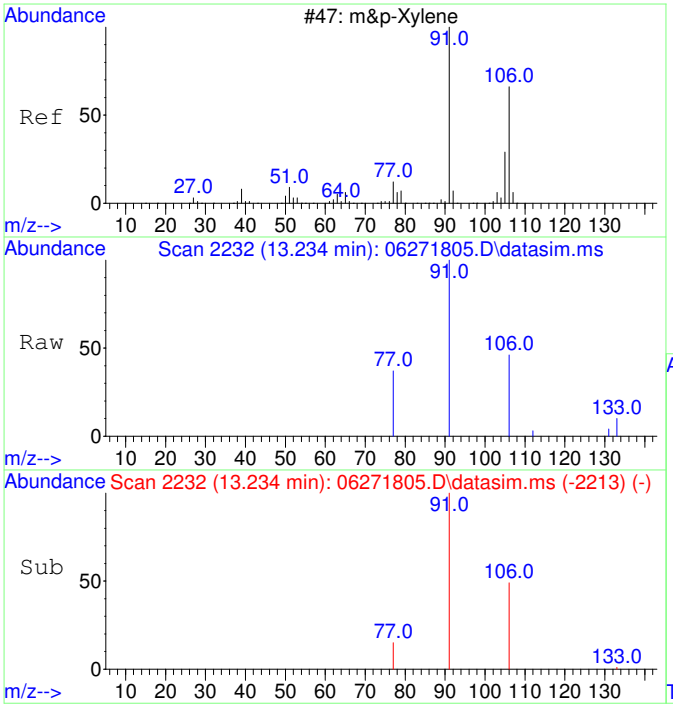


#18
Ethylbenzene
Concen: 54.00 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2602

Ion	Ratio	Lower	Upper
91	100		
106	34.6	2.8	62.8
77	16.3	0.0	38.6

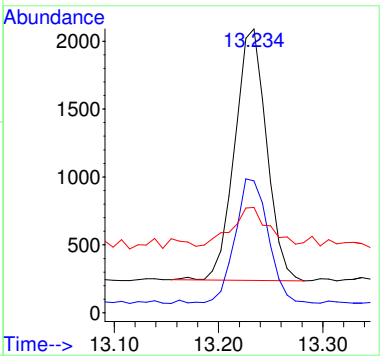


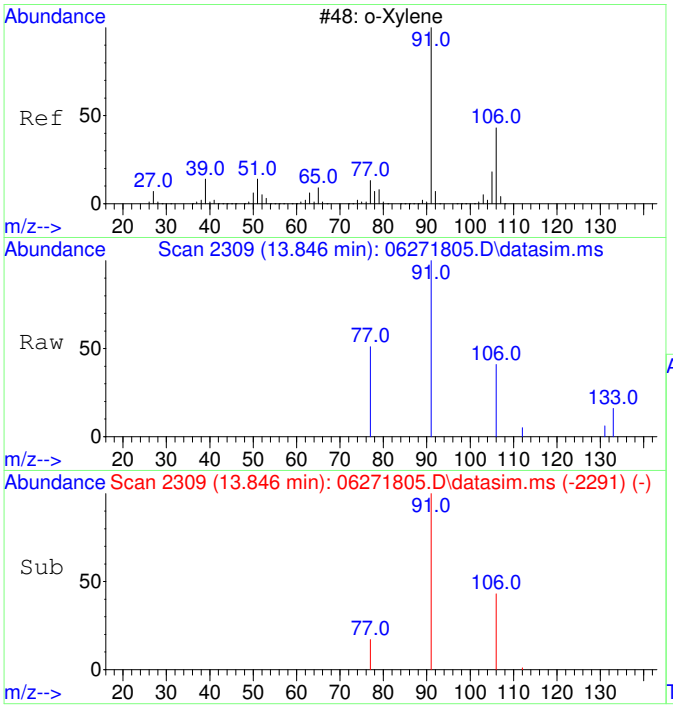


#19
m&p-Xylene
Concen: 105.34 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 3918

Ion	Ratio	Lower	Upper
91	100		
106	50.8	21.2	81.2
77	20.1	0.0	42.9

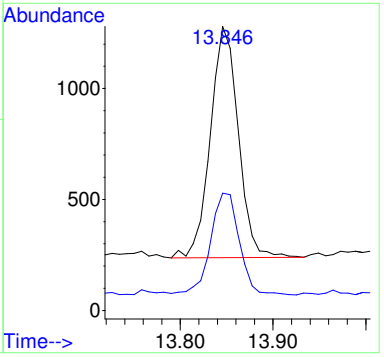


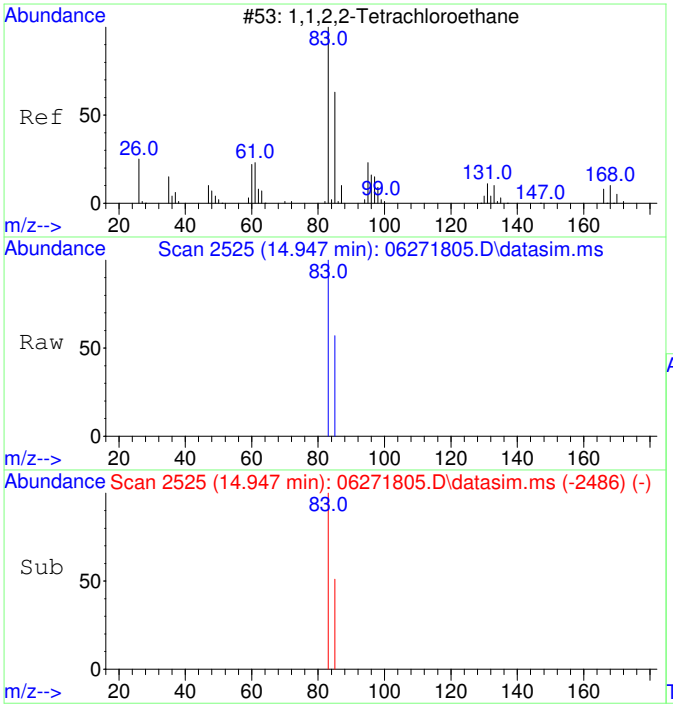


#20
o-Xylene
Concen: 55.47 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2185

Ion	Ratio	Lower	Upper
91	100		
106	45.3	18.3	78.3

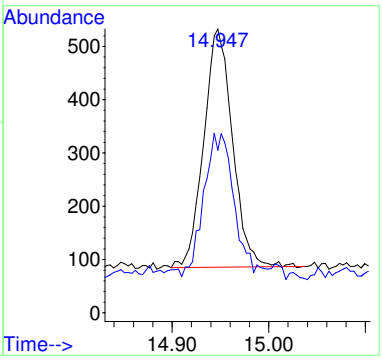


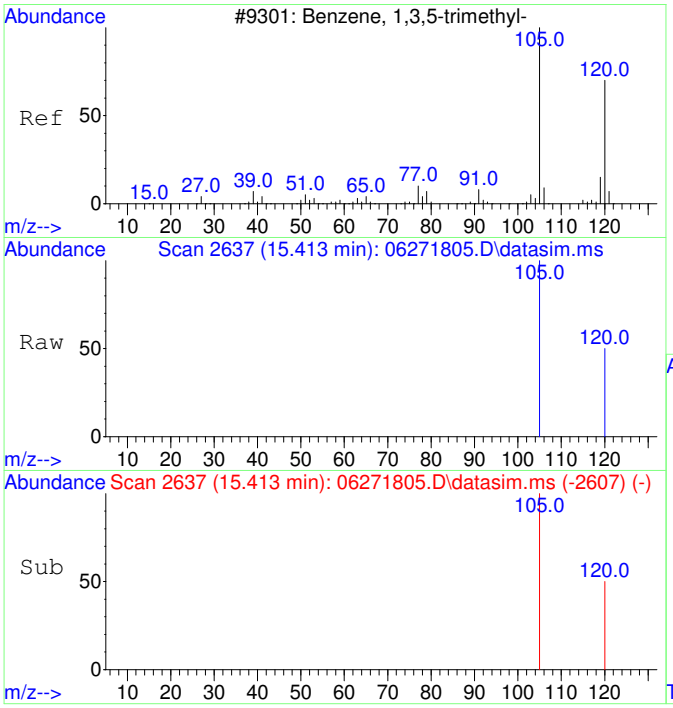


#21
1,1,2,2-Tetrachloroethane
Concen: 54.64 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 927

Ion	Ratio	Lower	Upper
83	100		
85	63.2	34.4	94.4

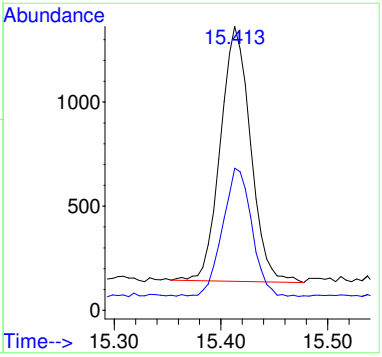


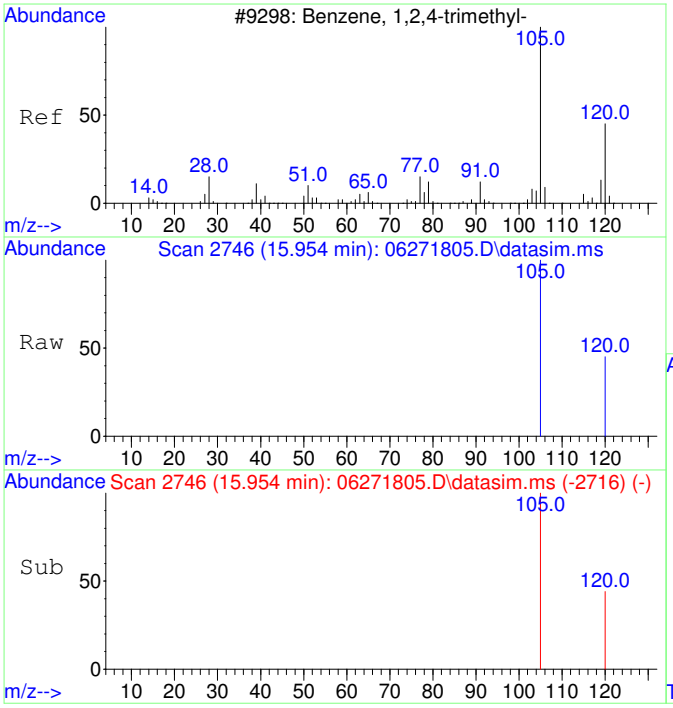


#22
1,3,5-Trimethylbenzene
Concen: 53.76 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.001 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 2396

Ion	Ratio	Lower	Upper
105	100		
120	48.5	19.1	79.1

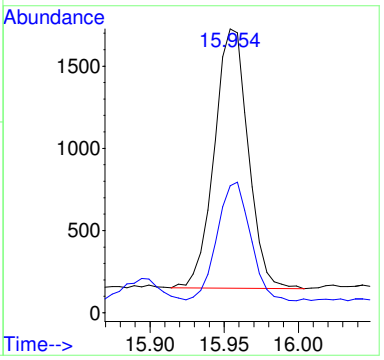


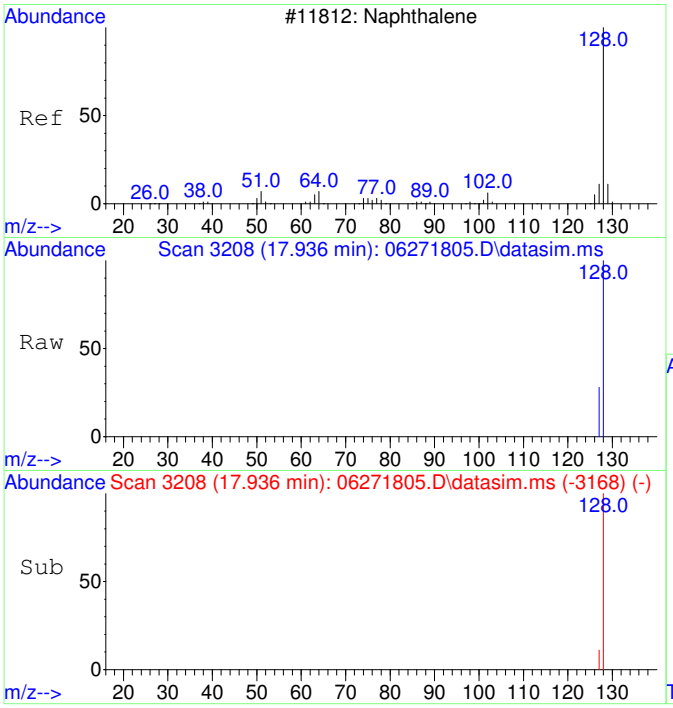


#23
1,2,4-Trimethylbenzene
Concen: 56.28 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 2509

Ion	Ratio	Lower	Upper
105	100		
120	44.4	15.5	75.5

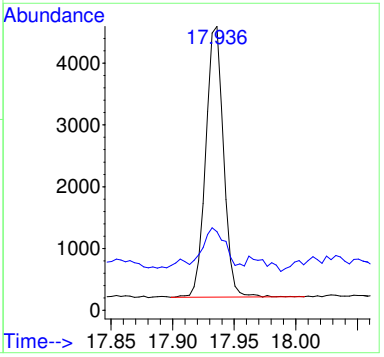


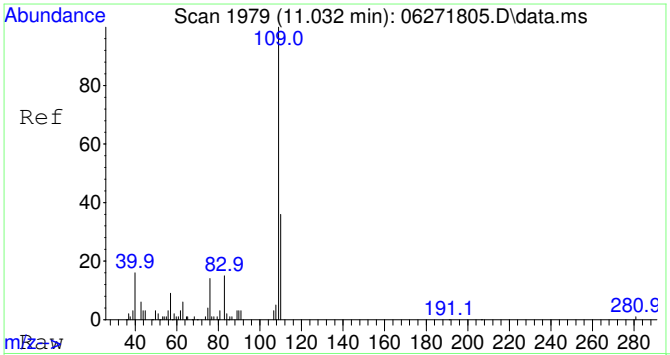


#24
Naphthalene
Concen: 60.06 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:128 Resp: 4394

Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	42.5

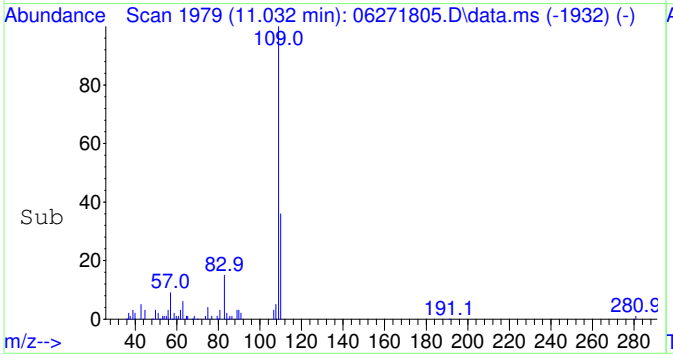


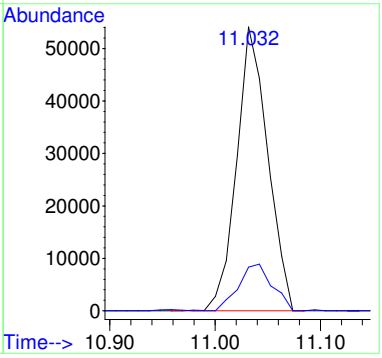


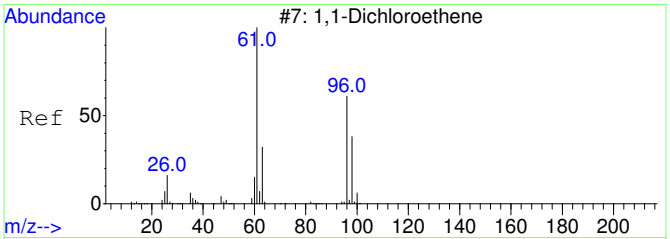
#25
2-Fluorotoluene SCAN
Concen: 5168.16 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

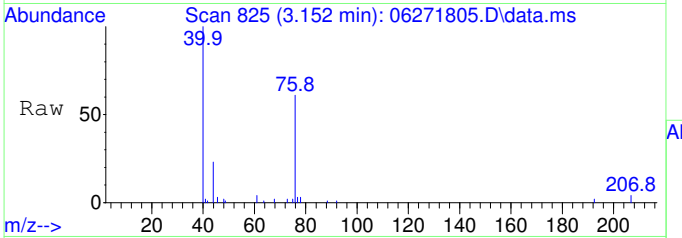
Tgt Ion:109 Resp: 111042

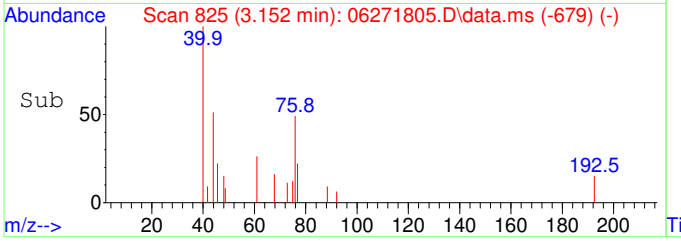
Ion	Ratio	Lower	Upper
109	100		
83	17.9	0.0	45.7







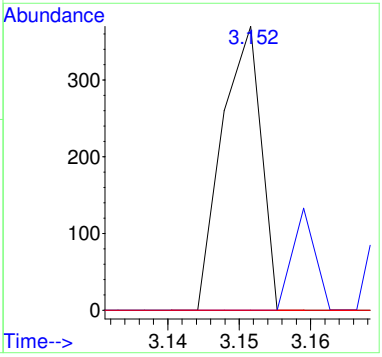


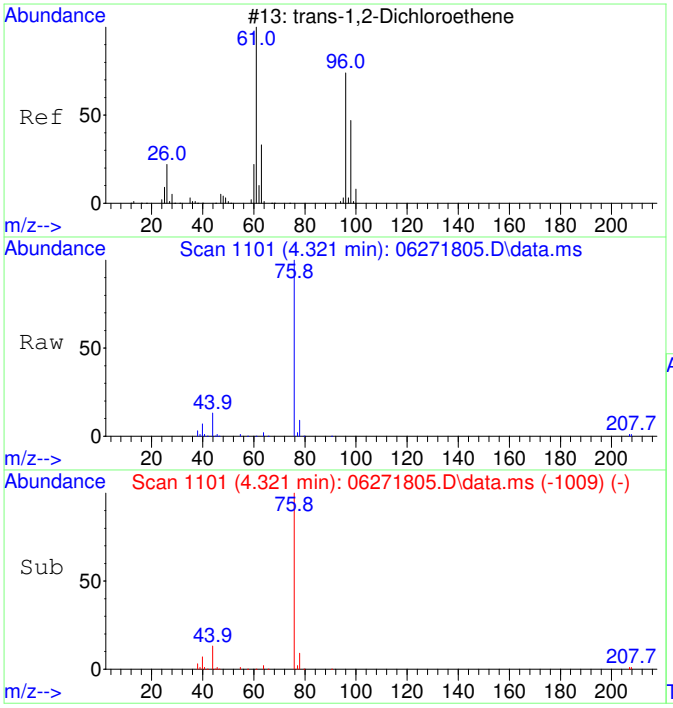


#26
1,1-Dichloroethene SCAN
Concen: 26.11 ug/L
RT: 3.152 min Scan# 825
Delta R.T. 0.041 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 140

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

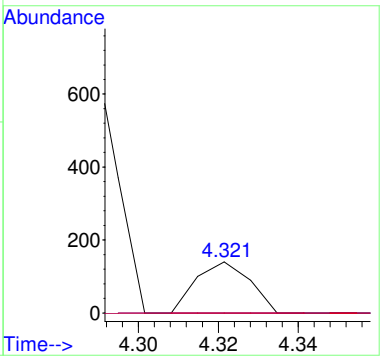


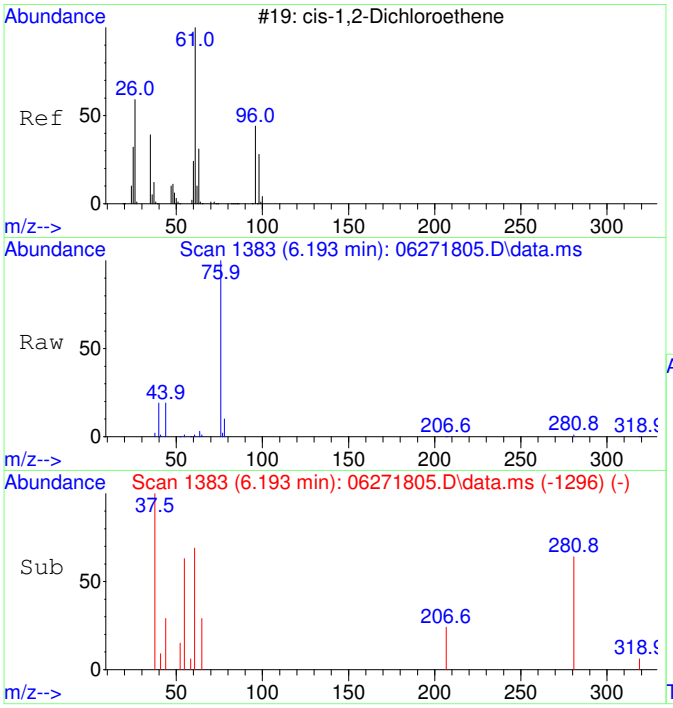


#27
trans-1,2-Dichloroethene SCAN
Concen: 20.99 ug/L
RT: 4.321 min Scan# 1101
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

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#

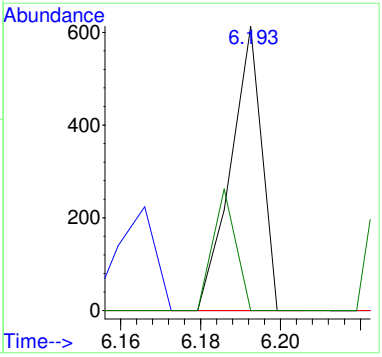


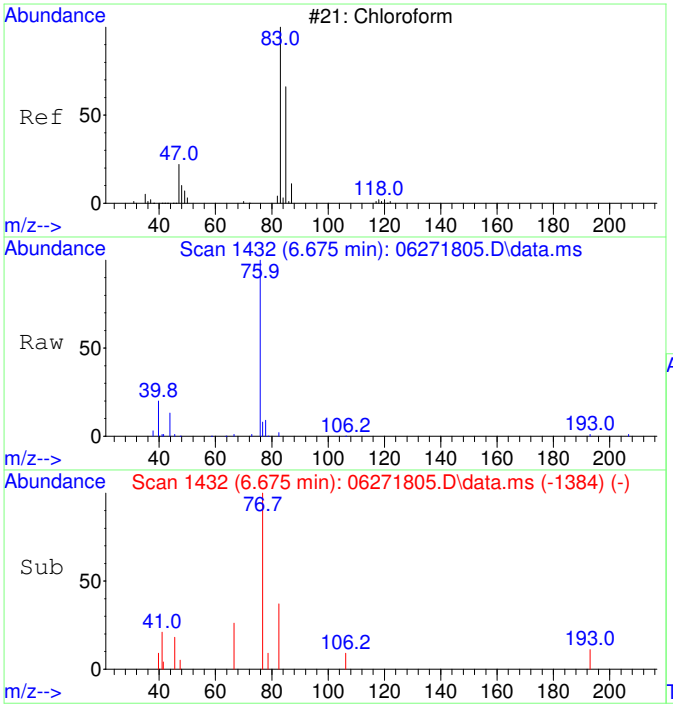


#29
cis-1,2-Dichloroethene SCAN
Concen: 48.20 ug/L
RT: 6.193 min Scan# 1383
Delta R.T. 0.080 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 331

Ion	Ratio	Lower	Upper
61	100		
96	0.0	28.2	88.2#
98	0.0	14.1	74.1#
63	31.4	1.5	61.5

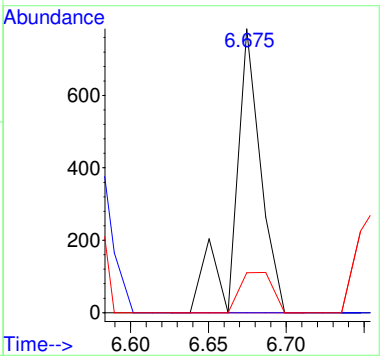


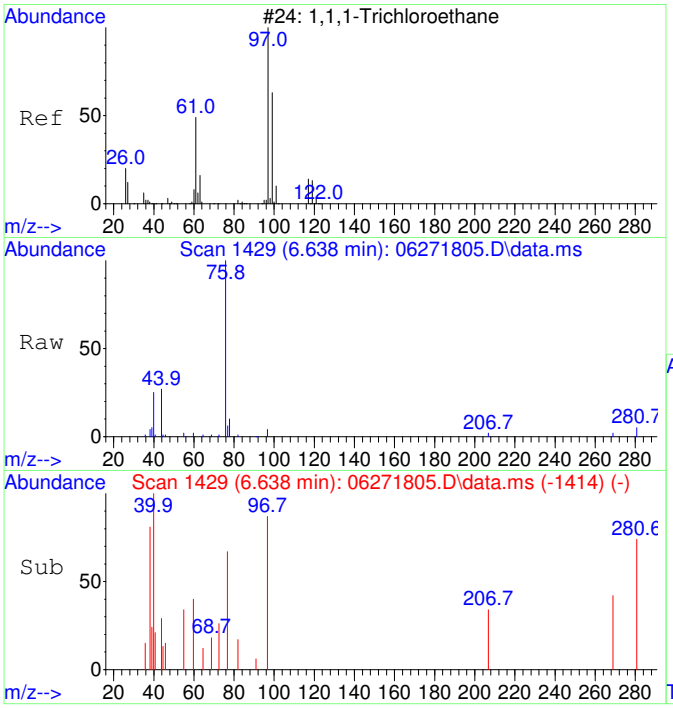


#30
Chloroform SCAN
Concen: 108.43 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 914

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	17.6	0.0	57.9

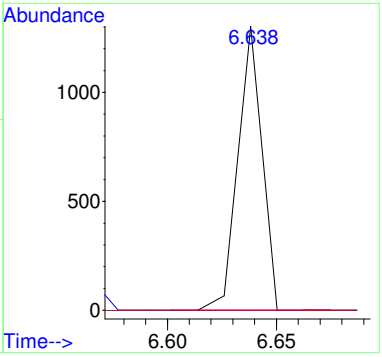


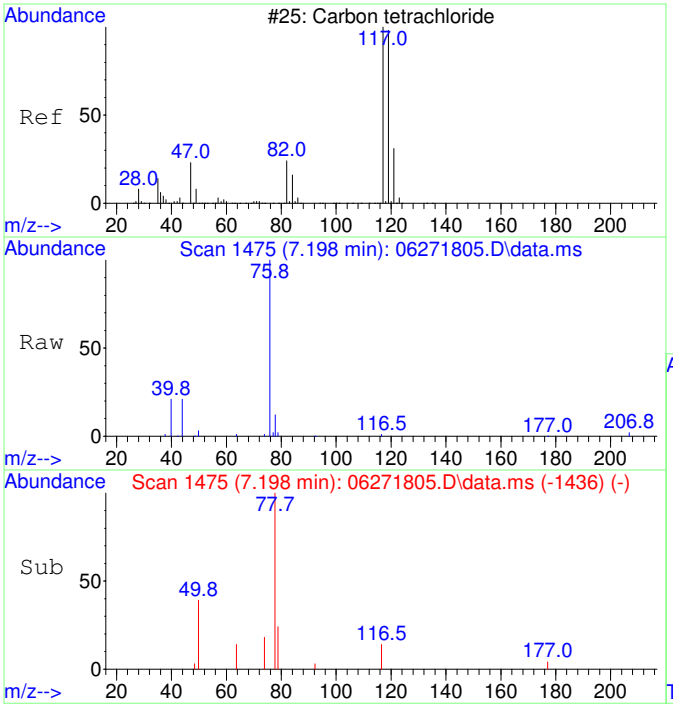


#31
1,1,1-Trichloroethane SCAN
Concen: 133.14 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.316 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 999

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

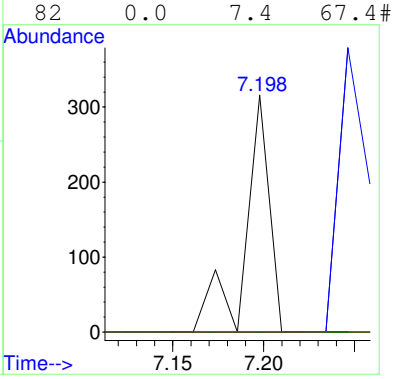


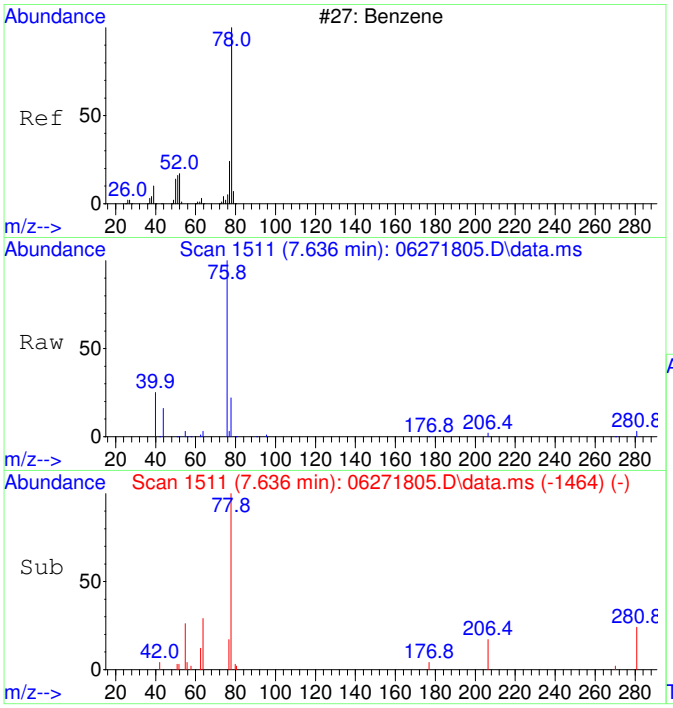


#32
Carbon tetrachloride SCAN
Concen: 39.36 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. -0.024 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:117 Resp: 291

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#

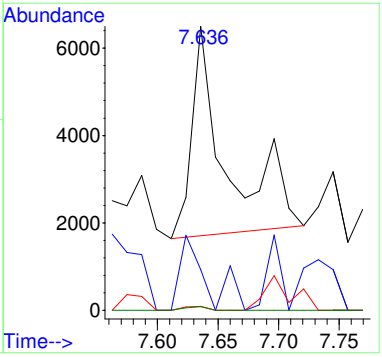


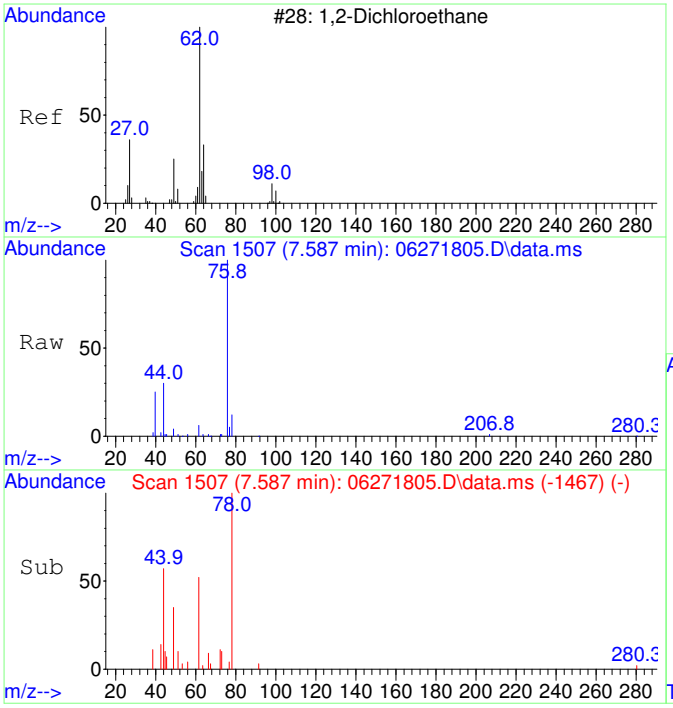


#33
Benzene SCAN
Concen: 423.48 ug/L
RT: 7.636 min Scan# 1511
Delta R.T. 0.073 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 78 Resp: 9476

Ion	Ratio	Lower	Upper
78	100		
77	20.4	3.0	63.0
51	1.3	0.0	56.4
52	1.1	0.0	48.0

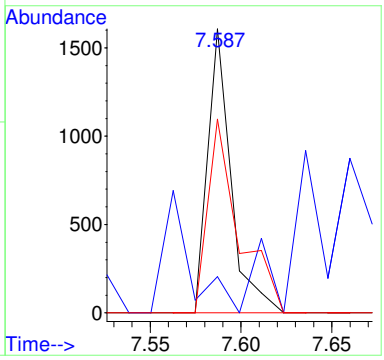


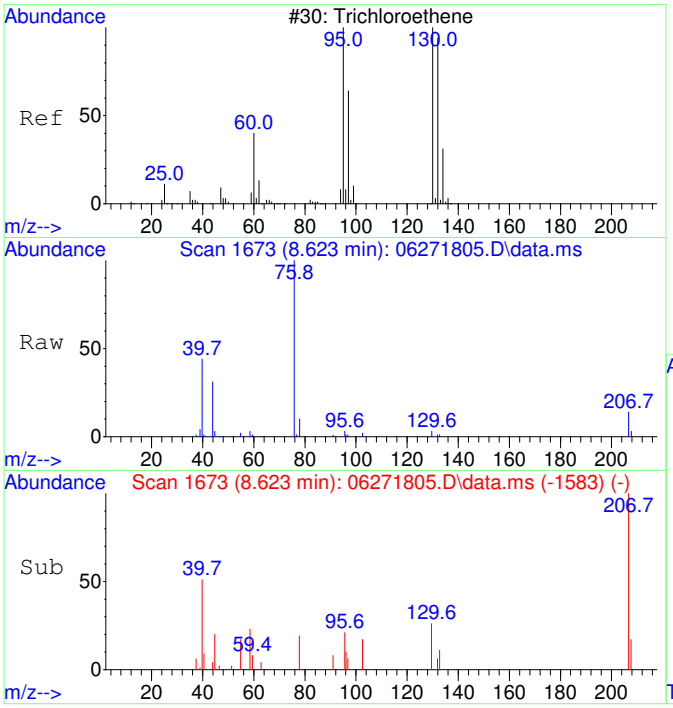


#34
1,2-Dichloroethane SCAN
Concen: 187.26 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 62 Resp: 1429

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	91.2	10.4	70.4#

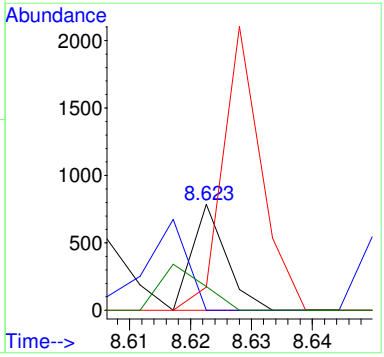


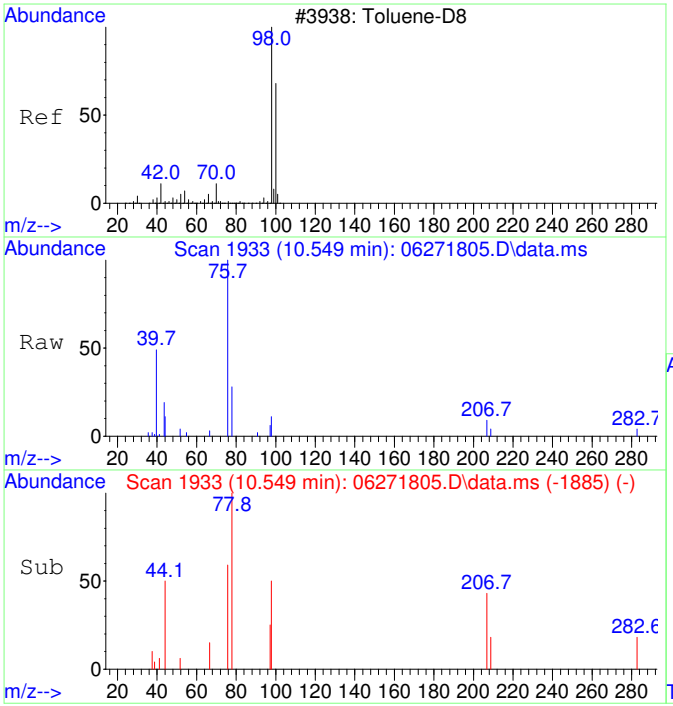


#35
Trichloroethene SCAN
Concen: 56.07 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:130 Resp: 307

Ion	Ratio	Lower	Upper
130	100		
95	109.1	70.5	130.5
132	299.7	63.8	123.8#
97	55.4	34.8	94.8

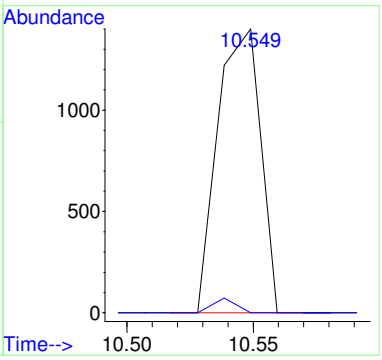


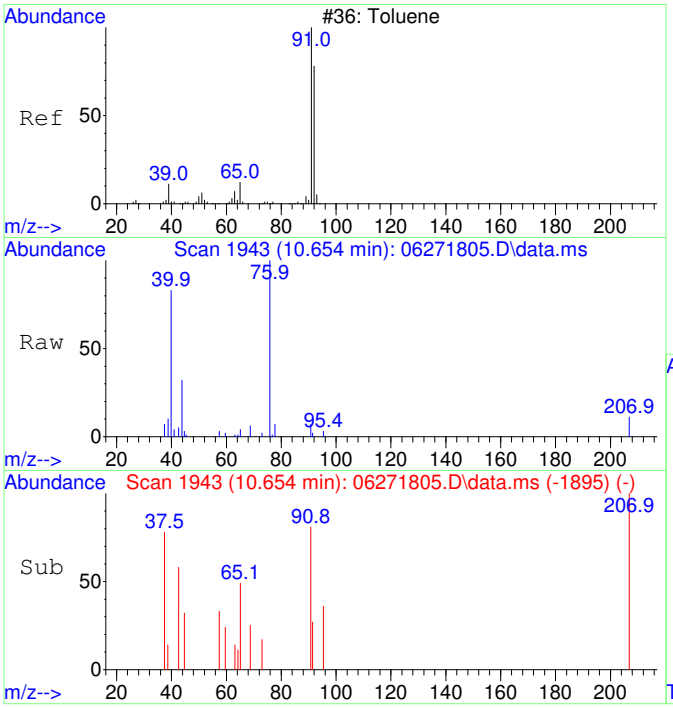


#36
Toluene-d8 SCAN
Concen: 85.00 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 98 Resp: 1651

Ion	Ratio	Lower	Upper
98	100		
100	0.0	39.5	99.5#

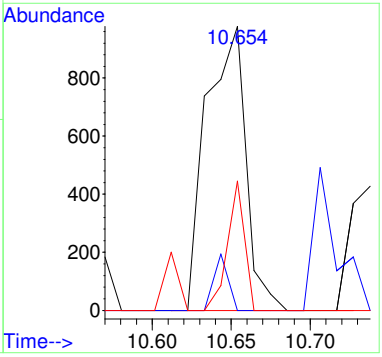


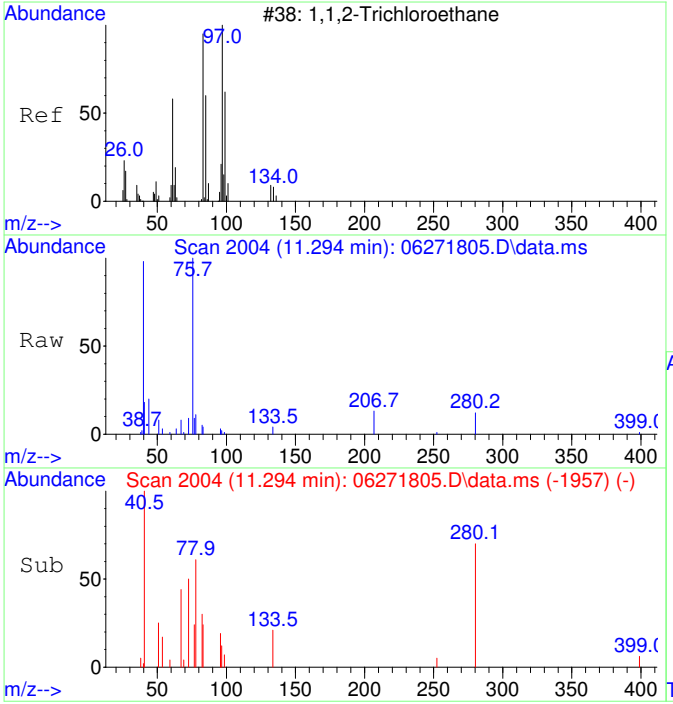


#37
Toluene SCAN
Concen: 68.64 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 1703

Ion	Ratio	Lower	Upper
91	100		
92	7.2	26.6	86.6#
65	19.6	0.0	42.3

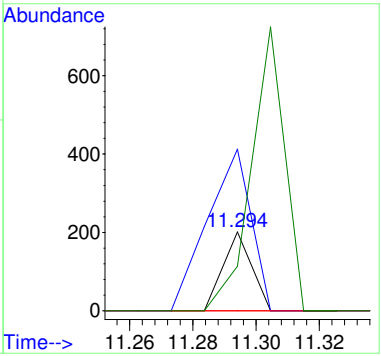


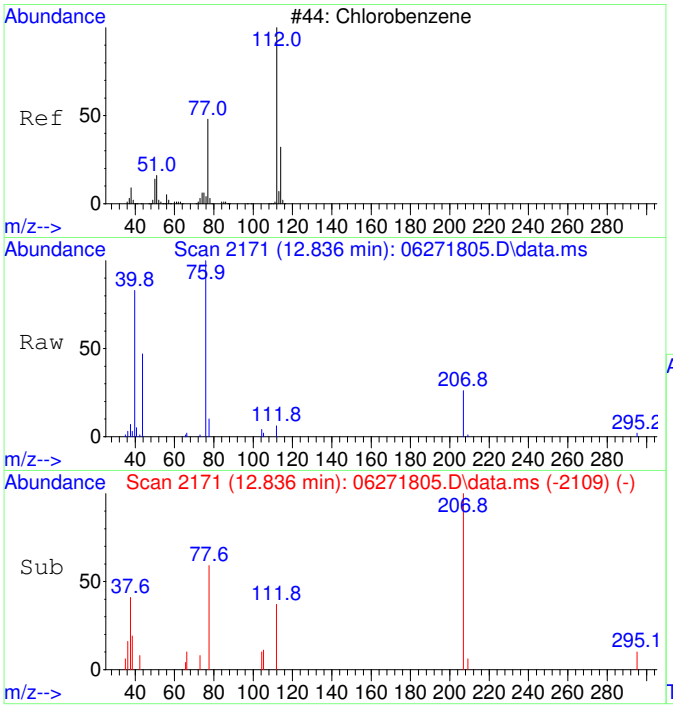


#38
1,1,2-Trichloroethane SCAN
Concen: 26.71 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 127

Ion	Ratio	Lower	Upper
97	100		
83	311.0	63.6	123.6#
61	0.0	44.9	104.9#
99	415.7	37.0	97.0#

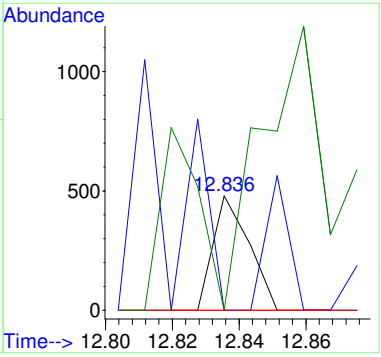


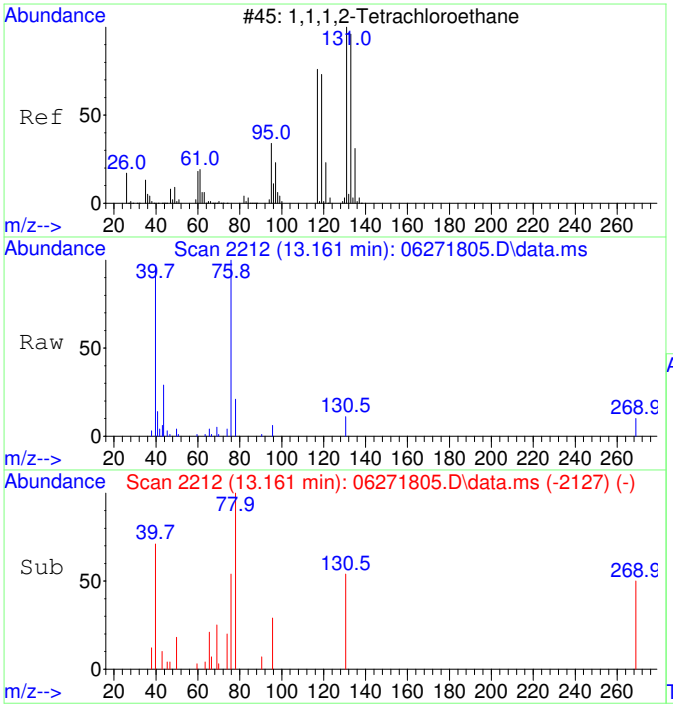


#40
Chlorobenzene SCAN
Concen: 23.79 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:112 Resp: 358

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

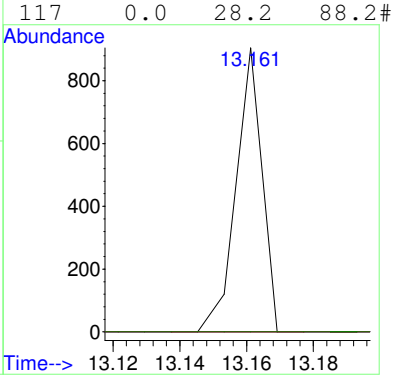


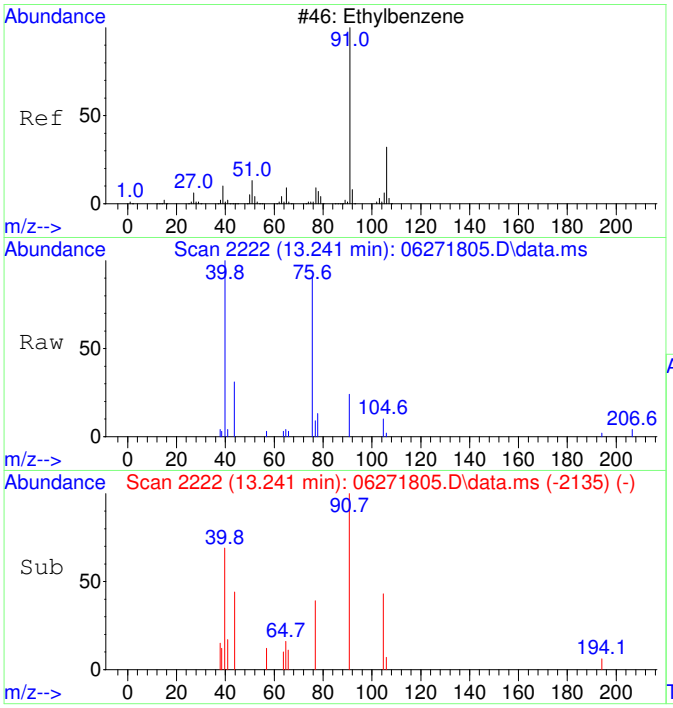


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 91.02 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.175 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:131 Resp: 489

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#

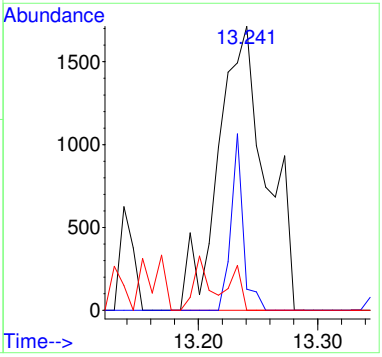


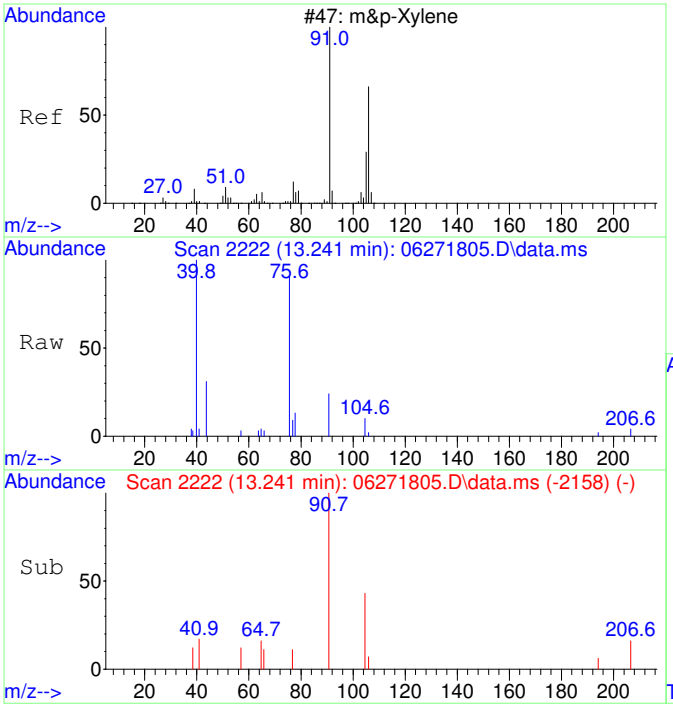


#42
Ethylbenzene SCAN
Concen: 164.43 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.191 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 4742

Ion	Ratio	Lower	Upper
91	100		
106	16.0	3.2	63.2
51	2.7	0.0	40.1

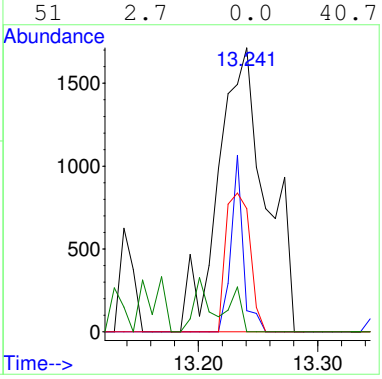


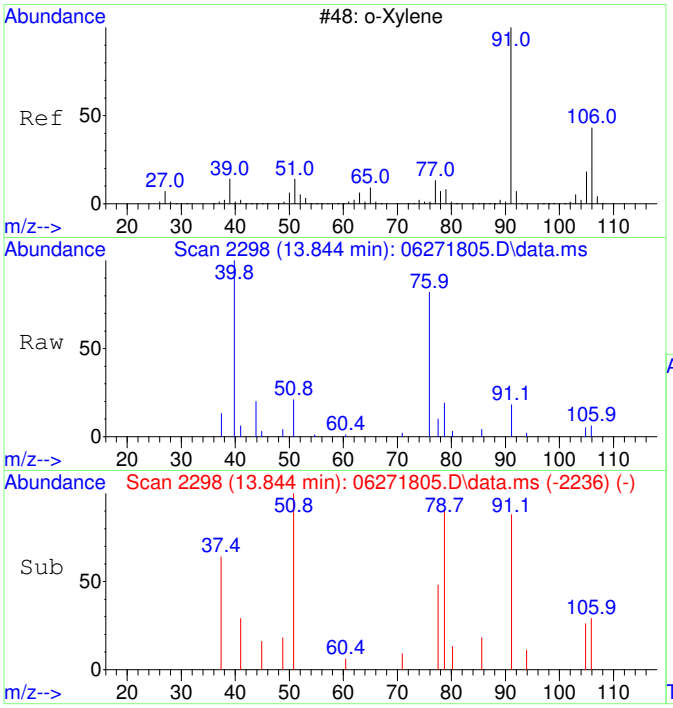


#43
m&p-Xylene SCAN
Concen: 118.46 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 4742

Ion	Ratio	Lower	Upper
91	100		
106	16.0	20.1	80.1#
105	25.1	0.0	51.1
51	2.7	0.0	40.7

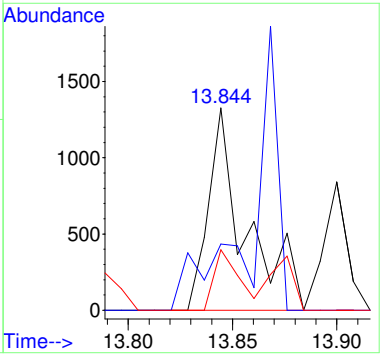


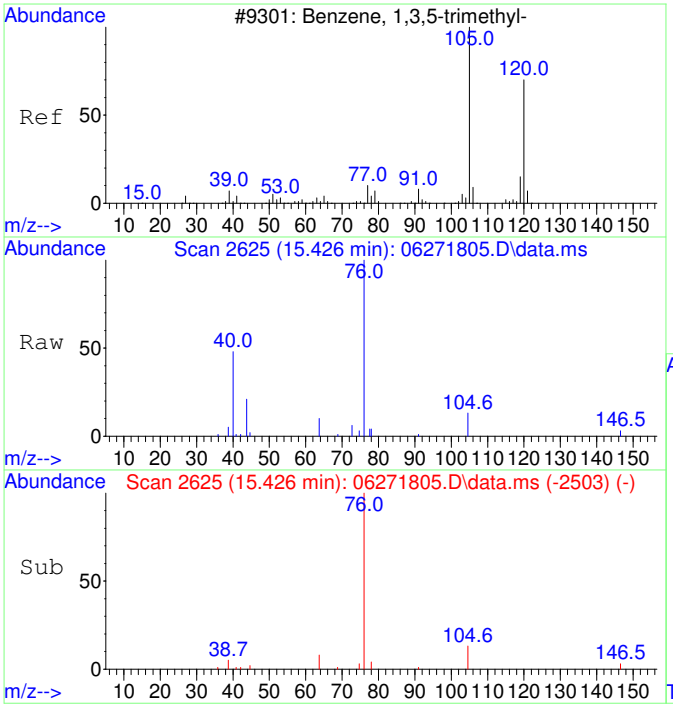


#44
o-Xylene SCAN
Concen: 71.85 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 1637

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	17.1	0.0	55.2

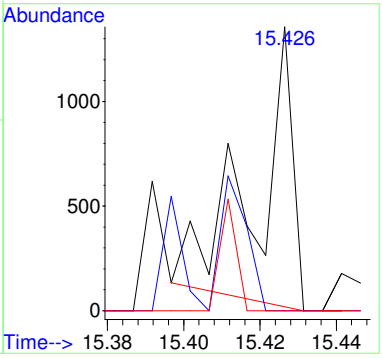


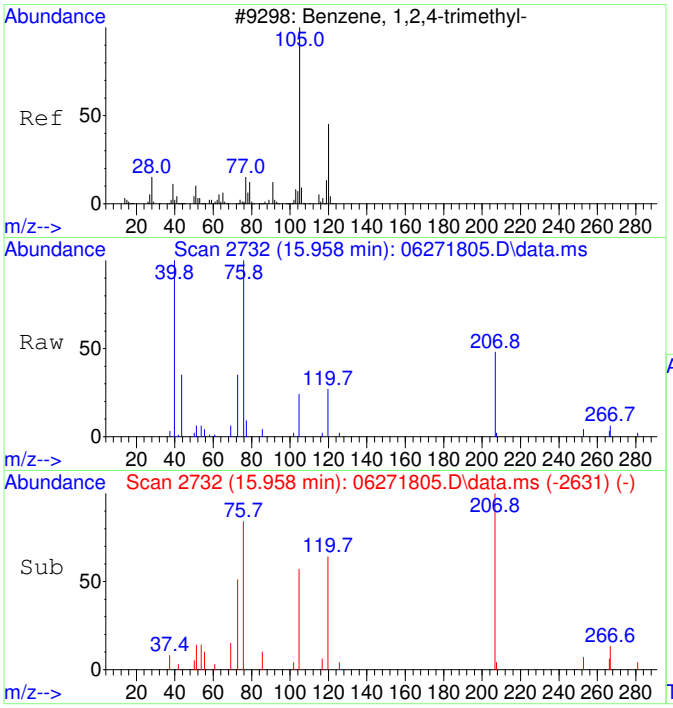


#46
1,3,5-Trimethylbenzene SCAN
Concen: 39.04 ug/L
RT: 15.426 min Scan# 2625
Delta R.T. 0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 882

Ion	Ratio	Lower	Upper
105	100		
120	35.3	16.8	76.8
119	18.0	0.0	41.5

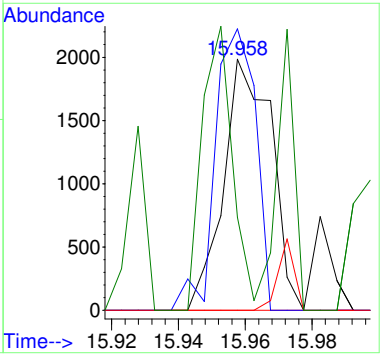


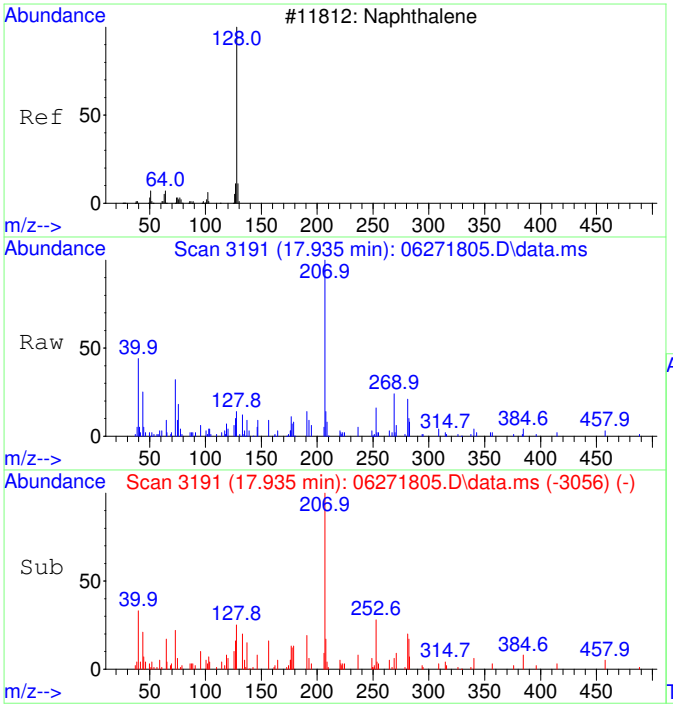


#47
1,2,4-Trimethylbenzene SCAN
Concen: 85.69 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 1984

Ion	Ratio	Lower	Upper
105	100		
120	94.1	15.4	75.4#
119	0.0	0.0	41.7
77	69.1	0.0	42.0#

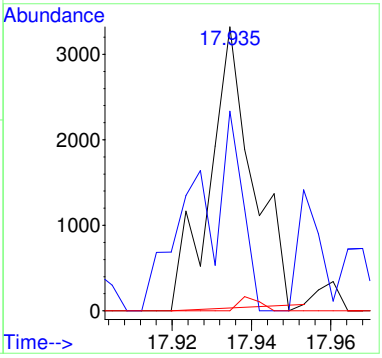




#48
Naphthalene SCAN
Concen: 74.50 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. -0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:128 Resp: 2461

Ion	Ratio	Lower	Upper
128	100		
127	32.3	0.0	43.9
129	2.5	0.0	40.5



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271805.D
Acq On : 27 Jun 2018 11:06
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

M.I. Performed By:
TD at 11:37 am, Jun 27, 2018

M.I. Approved By:
ZR at 11:08 am, Jul 02, 2018

Quant Time: Jun 27 11:25:05 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

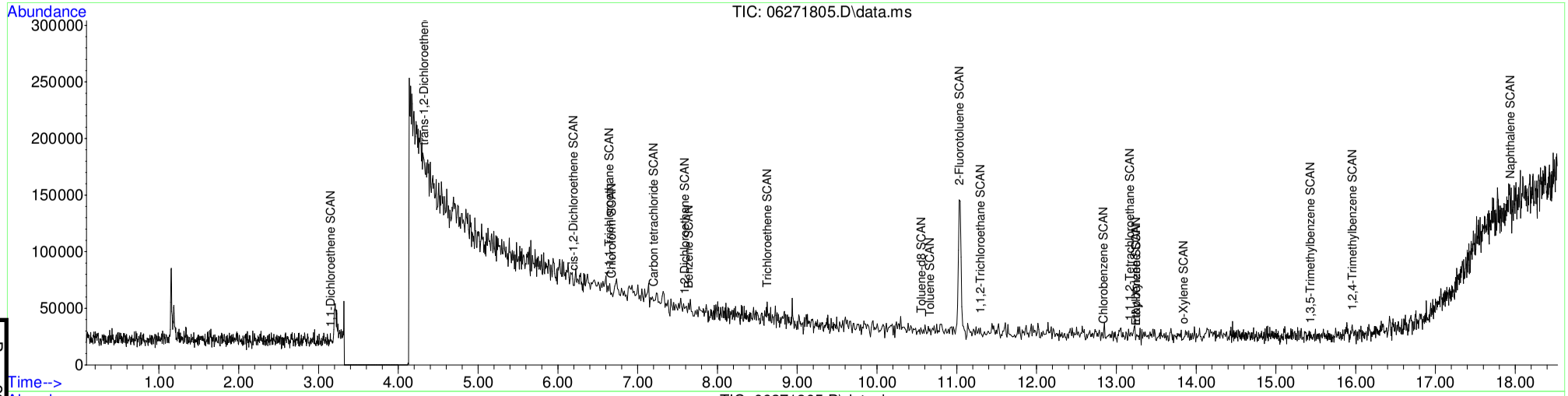
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	184385	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	1590	53.09 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.06%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	348m	45.04 ug/L	
3] trans-1,2-Dichloroethene	4.309	61	412	49.97 ug/L	72
4] 1,1-Dichloroethane	5.066	63	527	51.35 ug/L	84
5] cis-1,2-Dichloroethene	6.101	61	502	49.59 ug/L	92
6] Chloroform	6.676	83	688	63.12 ug/L	92
7] 1,1,1-Trichloroethane	6.944	97	570	53.13 ug/L	87
8] Carbon tetrachloride	7.211	117	525	51.66 ug/L	97
9] Benzene	7.540	78	2452	82.82 ug/L	65
10] 1,2-Dichloroethane	7.588	62	450	47.16 ug/L	67
11] Trichloroethene	8.624	130	438	53.83 ug/L	91
13] Toluene	10.645	91	2406	59.92 ug/L	96
14] 1,1,2-Trichloroethane	11.295	97	434	52.29 ug/L	71
15] Tetrachloroethene	11.495	166	621	54.89 ug/L	92
16] Chlorobenzene	12.837	112	1510	52.69 ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.980	131	533	54.80 ug/L #	65
18] Ethylbenzene	13.035	91	2602	54.00 ug/L	93
19] m&p-Xylene	13.234	91	3918	105.34 ug/L	96
20] o-Xylene	13.846	91	2185	55.47 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.947	83	927	54.64 ug/L	98
22] 1,3,5-Trimethylbenzene	15.413	105	2396	53.76 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	2509	56.28 ug/L	98
24] Naphthalene	17.936	128	4394	60.06 ug/L	92
25) 2-Fluorotoluene SCAN	11.032	109	111042	5168.16 ug/L	95
26) 1,1-Dichloroethene SCAN	3.152	61	140	26.11 ug/L #	30
27) trans-1,2-Dichloroethe...	4.321	61	131	20.99 ug/L #	23
29) cis-1,2-Dichloroethene...	6.193	61	331	48.20 ug/L #	44
30) Chloroform SCAN	6.675	83	914	108.43 ug/L #	38
31) 1,1,1-Trichloroethane ...	6.638	97	999	133.14 ug/L #	26
32) Carbon tetrachloride SCAN	7.198	117	291	39.36 ug/L #	13
33) Benzene SCAN	7.636	78	9476	423.48 ug/L	65
34) 1,2-Dichloroethane SCAN	7.587	62	1429	187.26 ug/L #	29
35) Trichloroethene SCAN	8.623	130	307	56.07 ug/L #	16
36) Toluene-d8 SCAN	10.549	98	1651	85.00 ug/L #	15
37) Toluene SCAN	10.654	91	1703	68.64 ug/L #	41
38) 1,1,2-Trichloroethane ...	11.294	97	127	26.71 ug/L #	1
40) Chlorobenzene SCAN	12.836	112	358	23.79 ug/L #	34
41) 1,1,1,2-Tetrachloroeth...	13.161	131	489	91.02 ug/L #	13
42) Ethylbenzene SCAN	13.241	91	4742	164.43 ug/L	72
43) m&p-Xylene SCAN	13.241	91	4742	118.46 ug/L #	65
44) o-Xylene SCAN	13.844	91	1637	71.85 ug/L #	45
46) 1,3,5-Trimethylbenzene...	15.426	105	882	39.04 ug/L	83
47) 1,2,4-Trimethylbenzene...	15.958	105	1984	85.69 ug/L #	21
48) Naphthalene SCAN	17.935	128	2461	74.50 ug/L	65

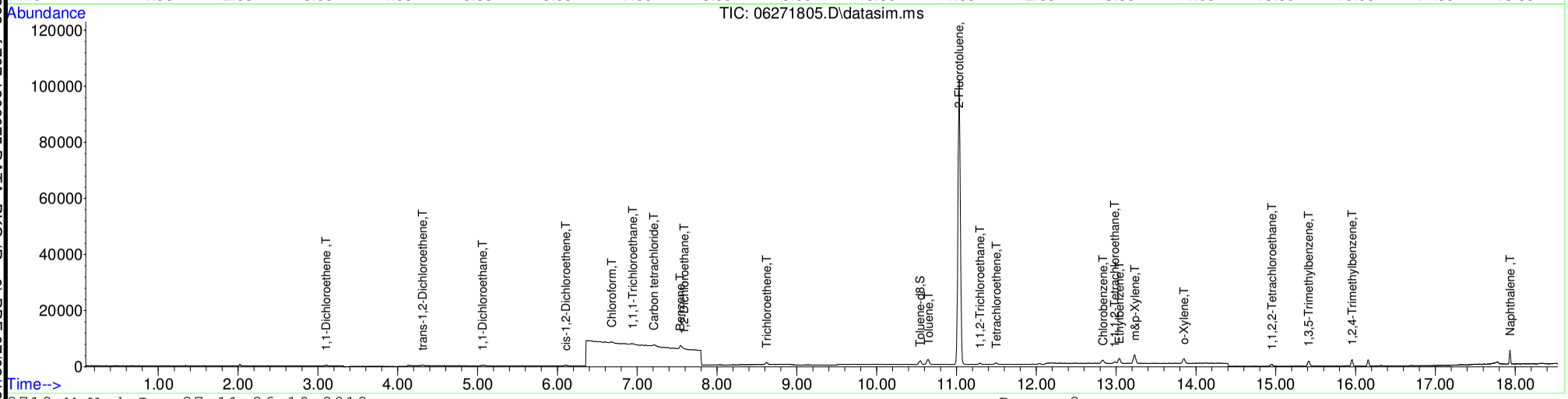
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271805.D
Acq On : 27 Jun 2018 11:06
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 11:25:05 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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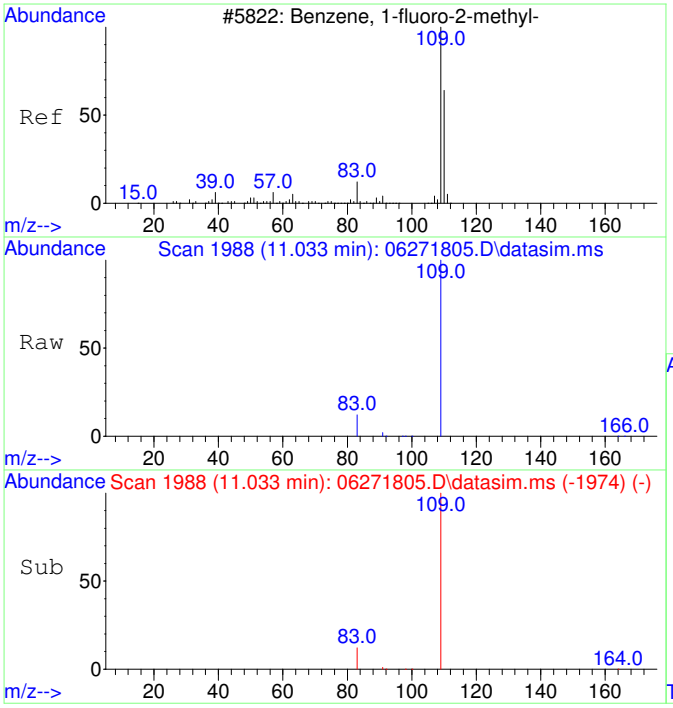
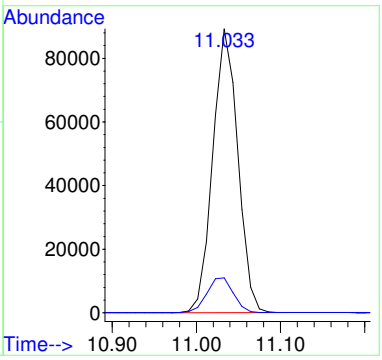
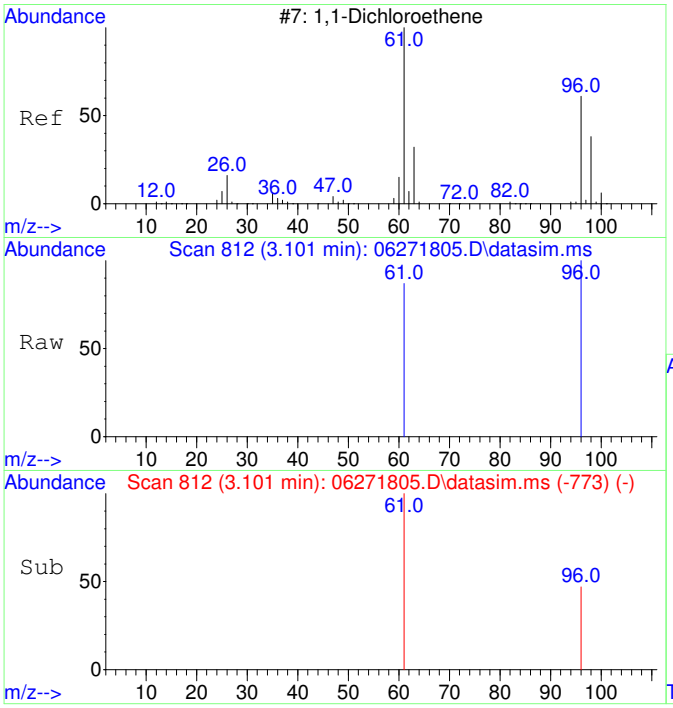


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:109 Resp: 184385

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.7

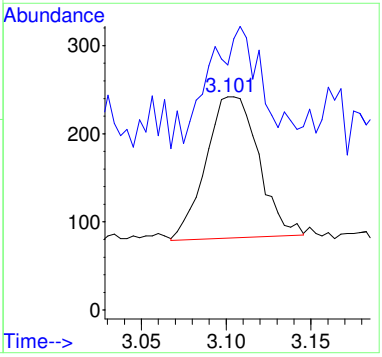


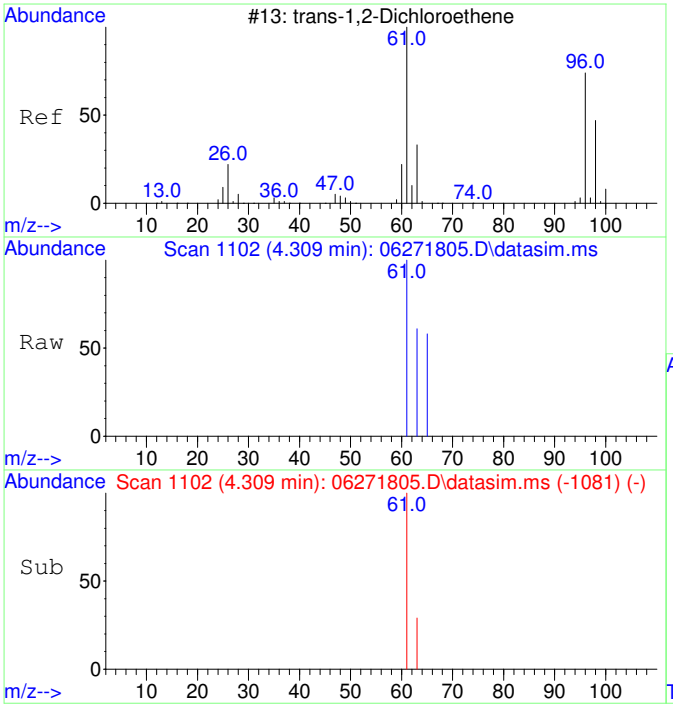


#2
1,1-Dichloroethene
Concen: 45.04 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. -0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 348

Ion	Ratio	Lower	Upper
61	100		
96	87.4	28.7	88.7

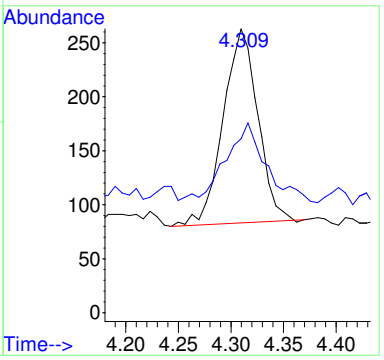


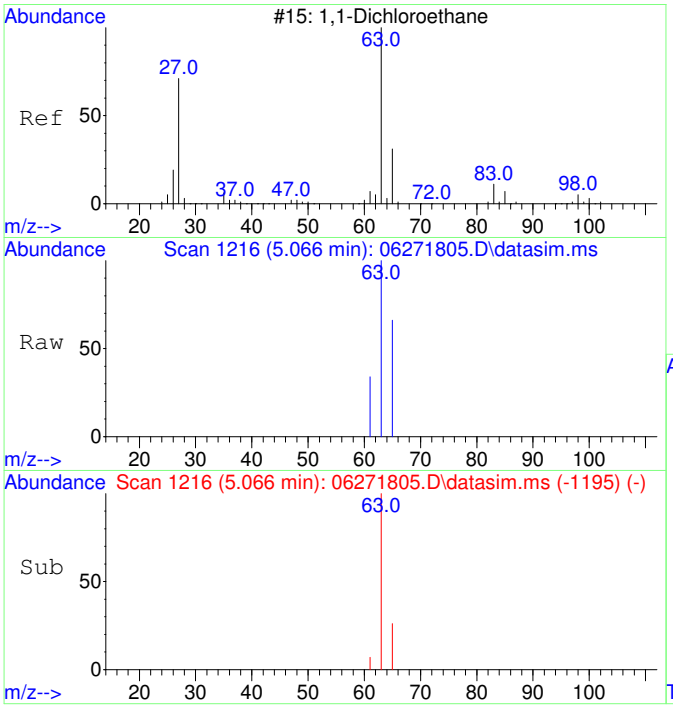


#3
trans-1,2-Dichloroethene
Concen: 49.97 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 412

Ion	Ratio	Lower	Upper
61	100		
63	47.8	2.0	62.0

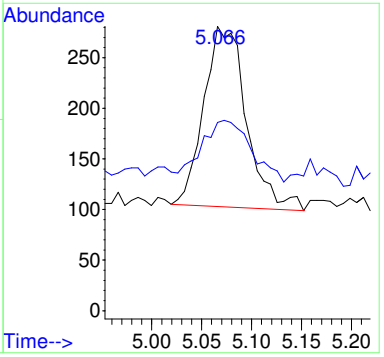


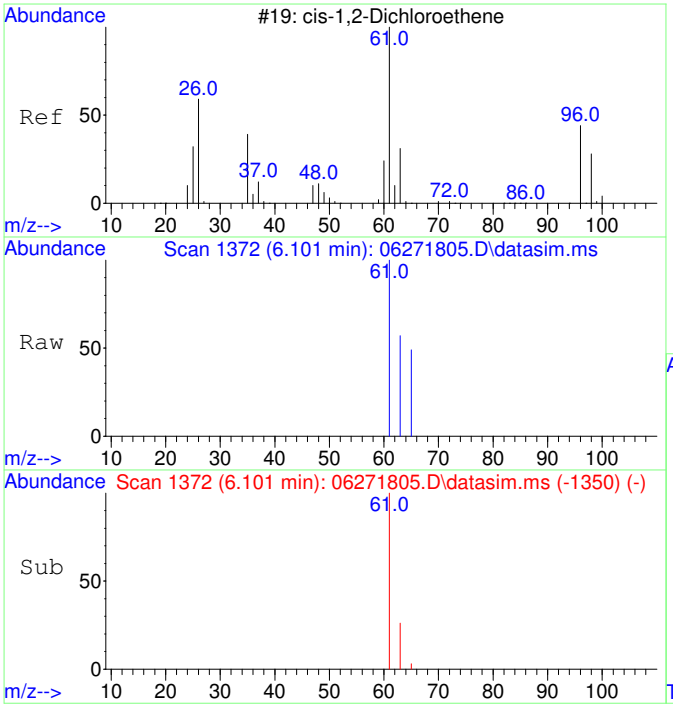


#4
1,1-Dichloroethane
Concen: 51.35 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 63 Resp: 527

Ion	Ratio	Lower	Upper
63	100		
65	40.4	1.5	61.5

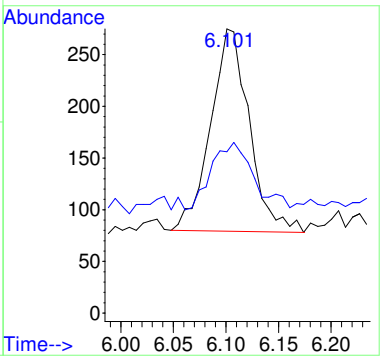


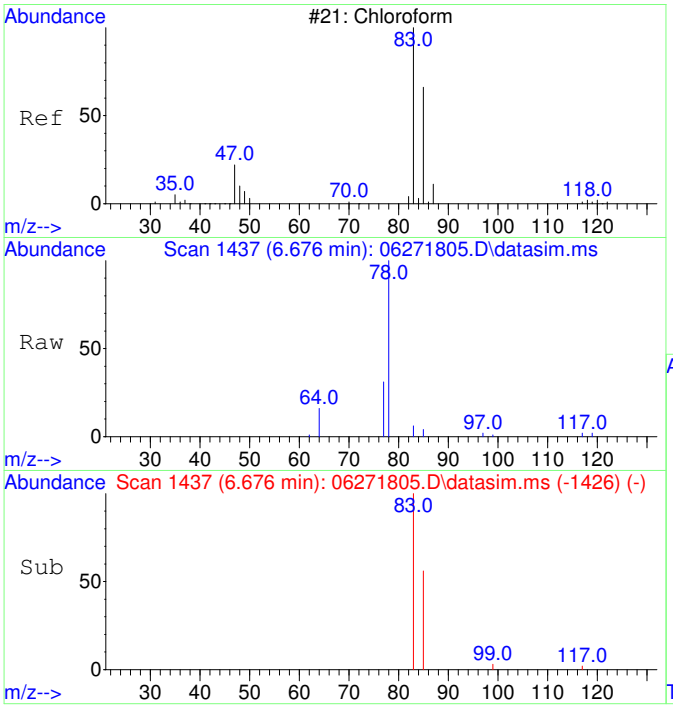


#5
cis-1,2-Dichloroethene
Concen: 49.59 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 502

Ion	Ratio	Lower	Upper
61	100		
63	36.9	2.2	62.2

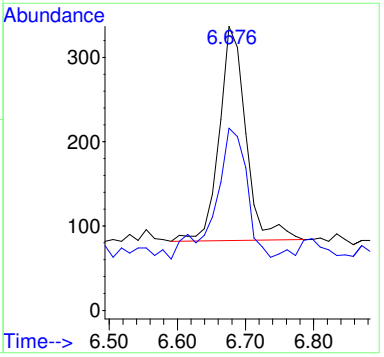


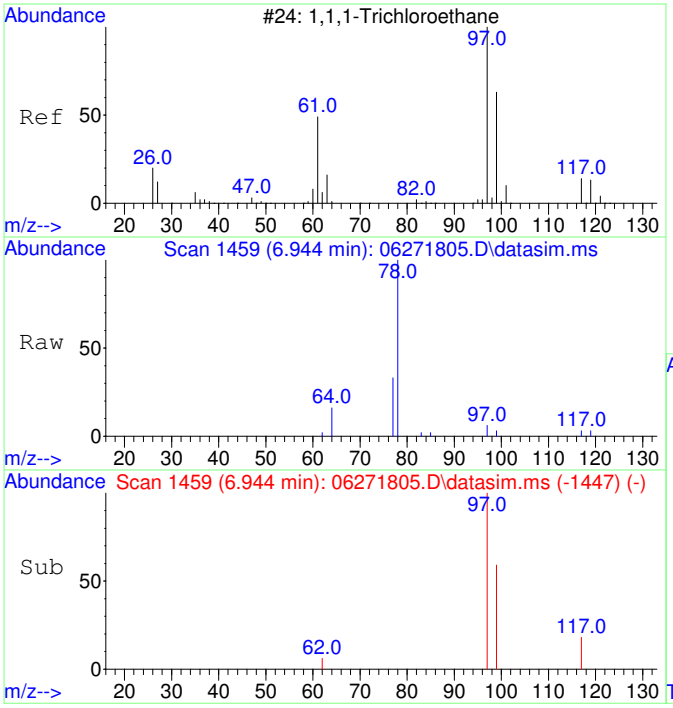


#6
Chloroform
Concen: 63.12 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 688

Ion	Ratio	Lower	Upper
83	100		
85	71.1	34.8	94.8

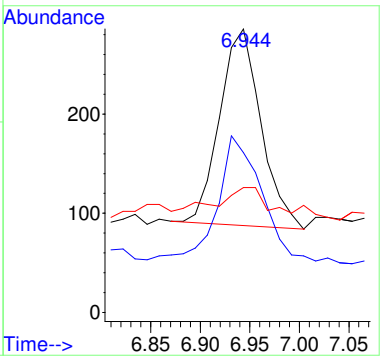


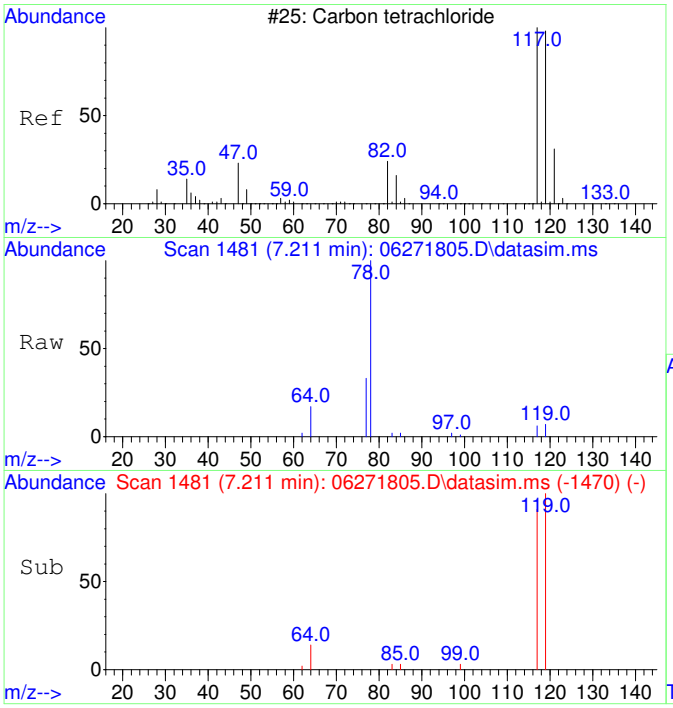


#7
1,1,1-Trichloroethane
Concen: 53.13 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 570

Ion	Ratio	Lower	Upper
97	100		
99	71.6	34.6	94.6
117	26.3	0.0	42.9

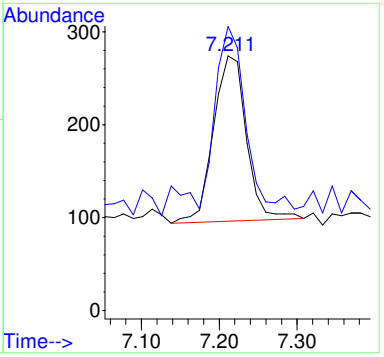


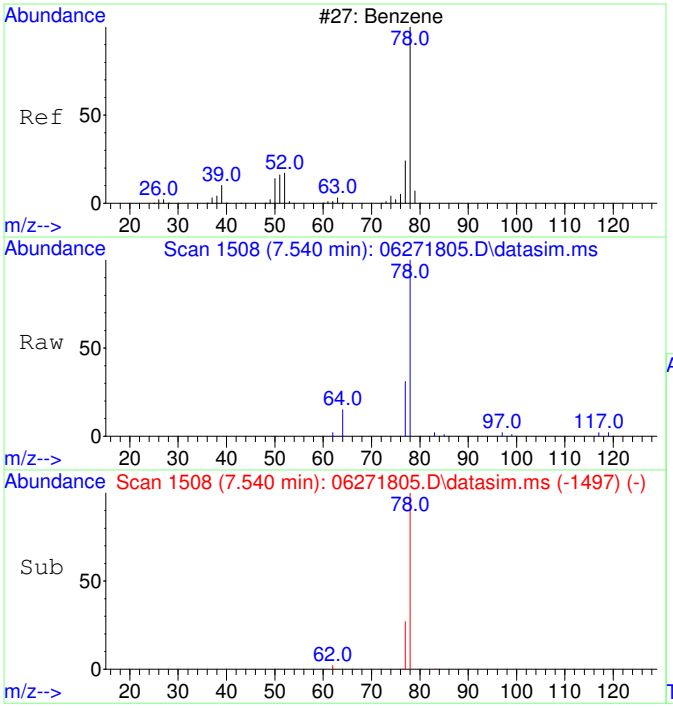


#8
Carbon tetrachloride
Concen: 51.66 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:117 Resp: 525

Ion	Ratio	Lower	Upper
117	100		
119	98.9	65.9	125.9

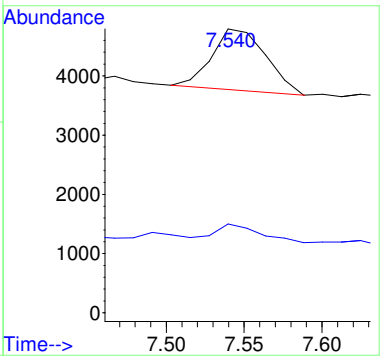


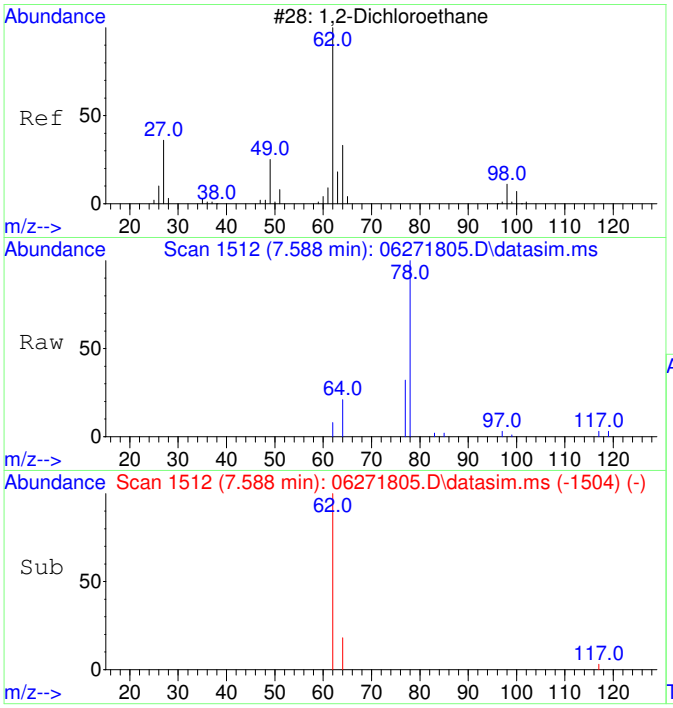


#9
Benzene
Concen: 82.82 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 78 Resp: 2452

Ion	Ratio	Lower	Upper
78	100		
77	40.1	0.0	53.0

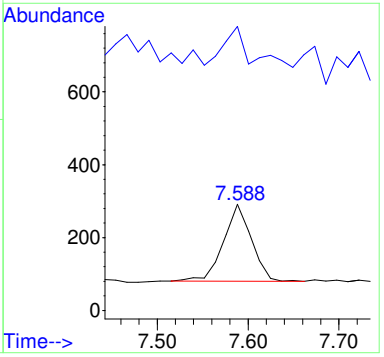


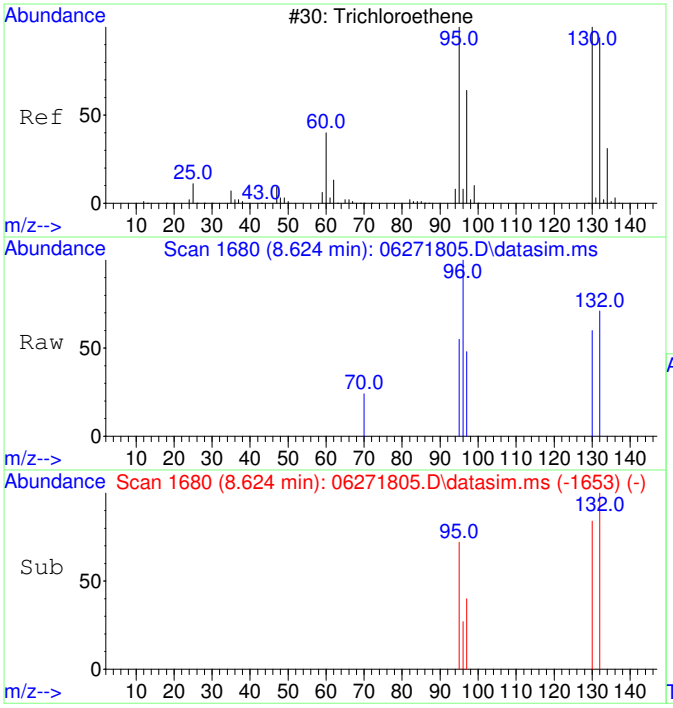


#10
1,2-Dichloroethane
Concen: 47.16 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 62 Resp: 450

Ion	Ratio	Lower	Upper
62	100		
64	50.7	2.3	62.3

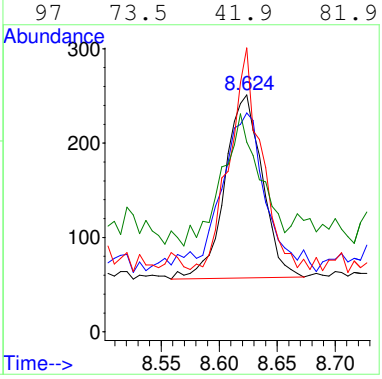


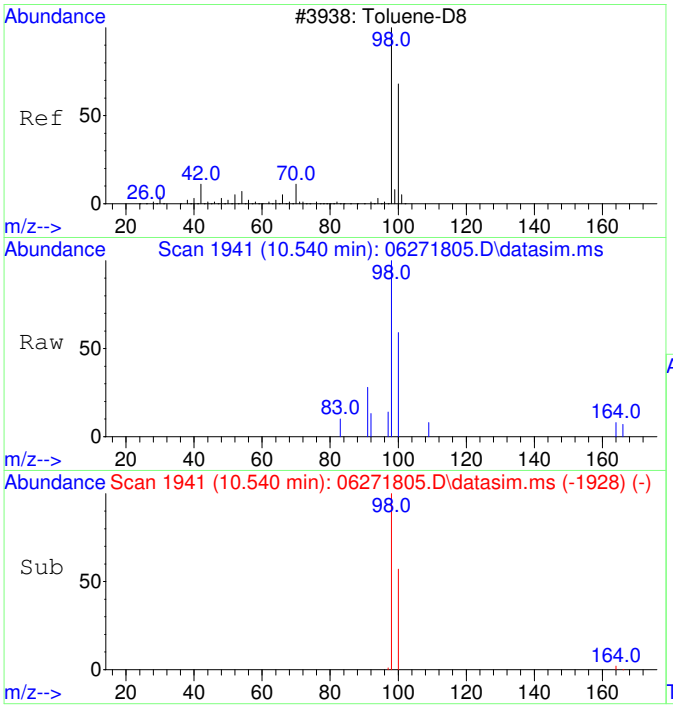


#11
Trichloroethene
Concen: 53.83 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:130 Resp: 438

Ion	Ratio	Lower	Upper
130	100		
95	105.7	66.0	126.0
132	102.3	78.8	118.8
97	73.5	41.9	81.9

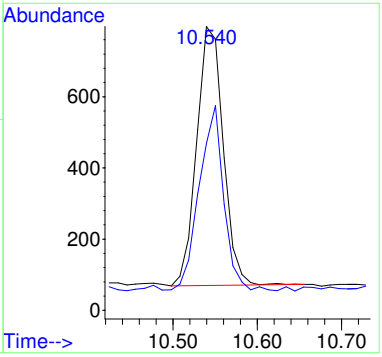


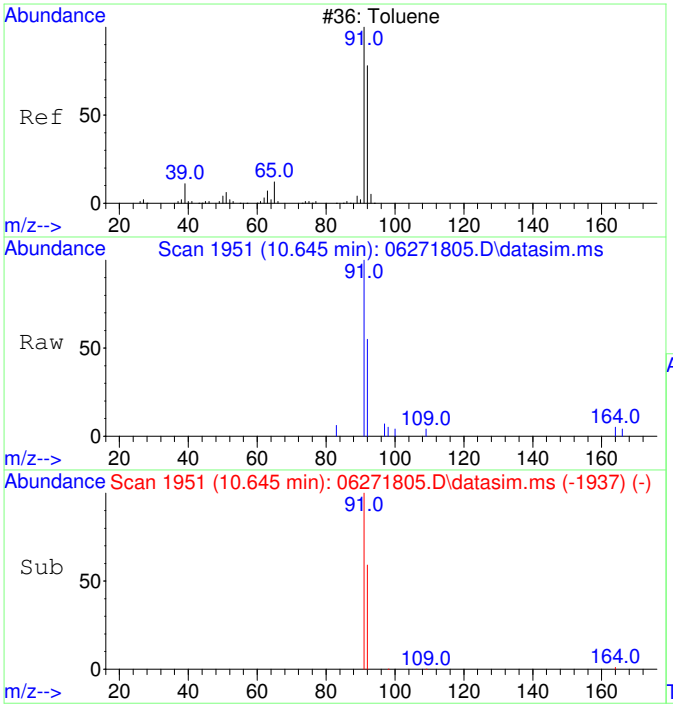


#12
Toluene-d8
Concen: 53.09 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 98 Resp: 1590

Ion	Ratio	Lower	Upper
98	100		
100	65.6	38.7	98.7

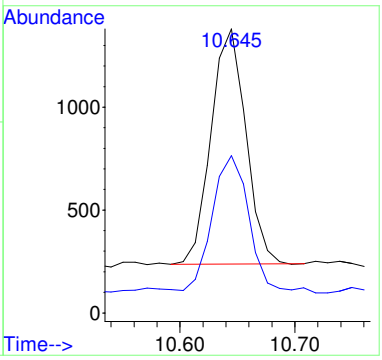


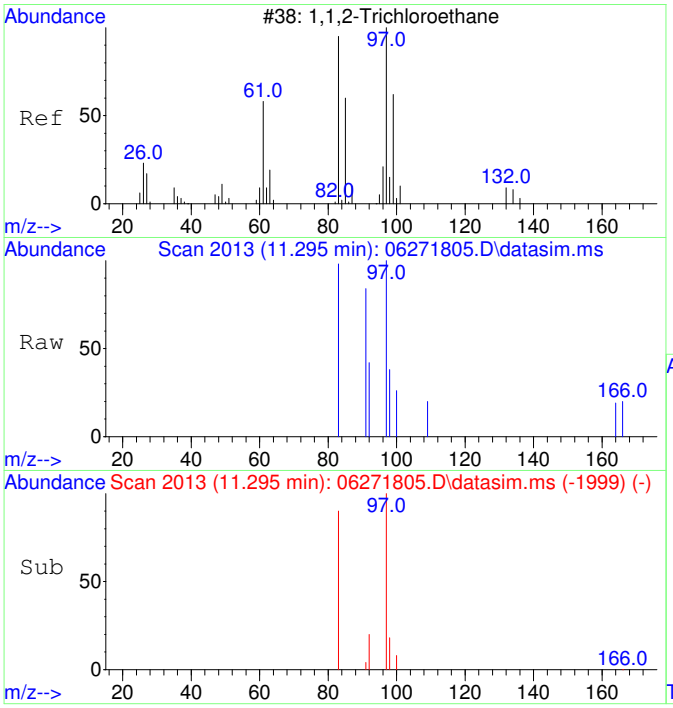


#13
Toluene
Concen: 59.92 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2406

Ion	Ratio	Lower	Upper
91	100		
92	63.2	30.0	90.0

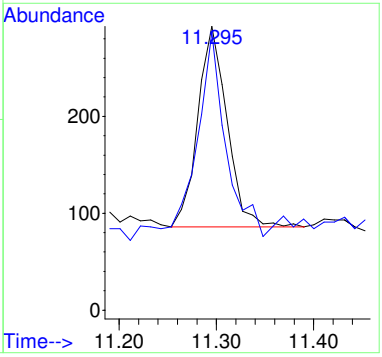


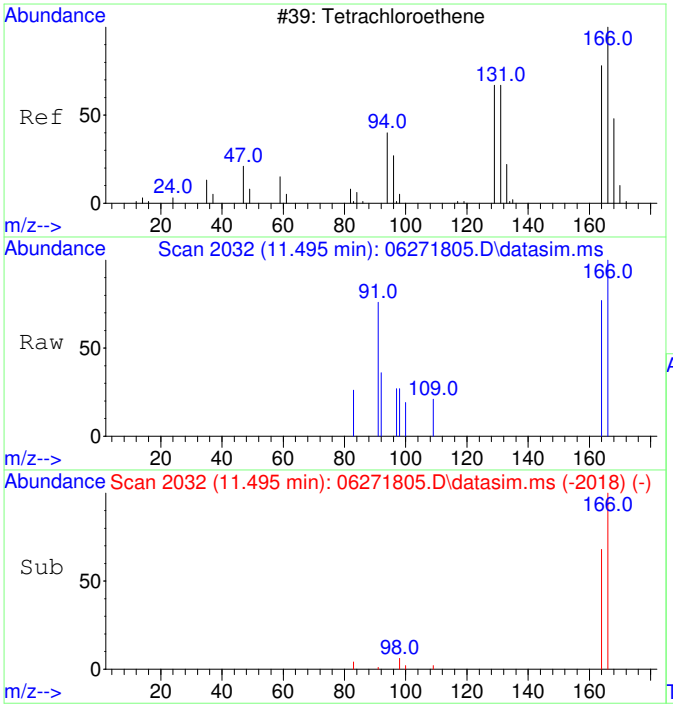


#14
1,1,2-Trichloroethane
Concen: 52.29 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 434

Ion	Ratio	Lower	Upper
97	100		
83	109.2	53.4	113.4

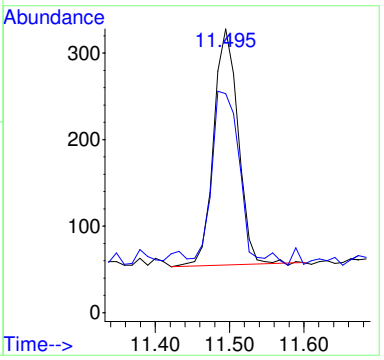


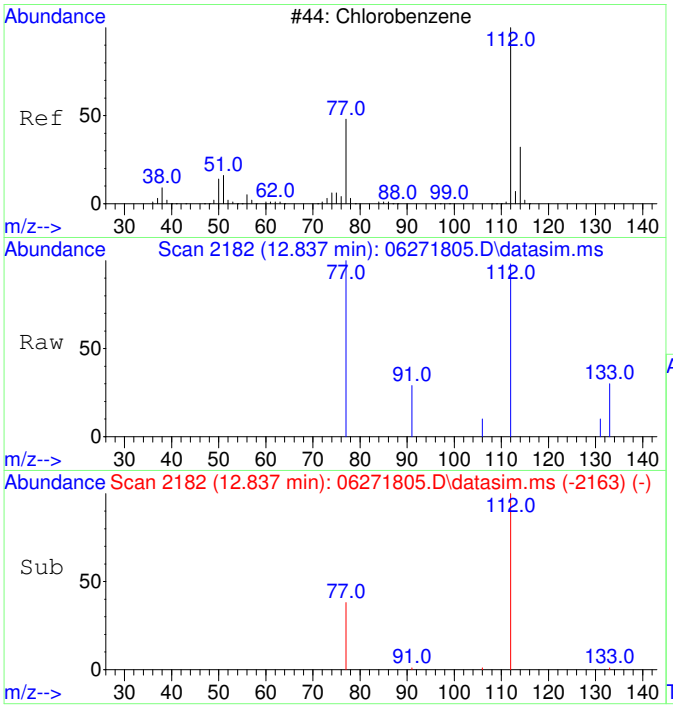


#15
Tetrachloroethene
Concen: 54.89 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:166 Resp: 621

Ion	Ratio	Lower	Upper
166	100		
164	84.9	47.8	107.8

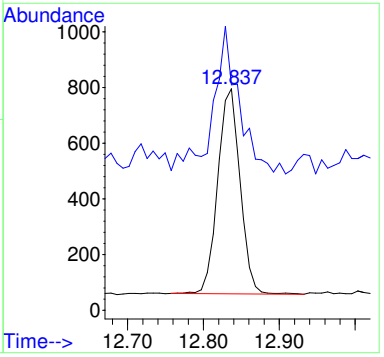


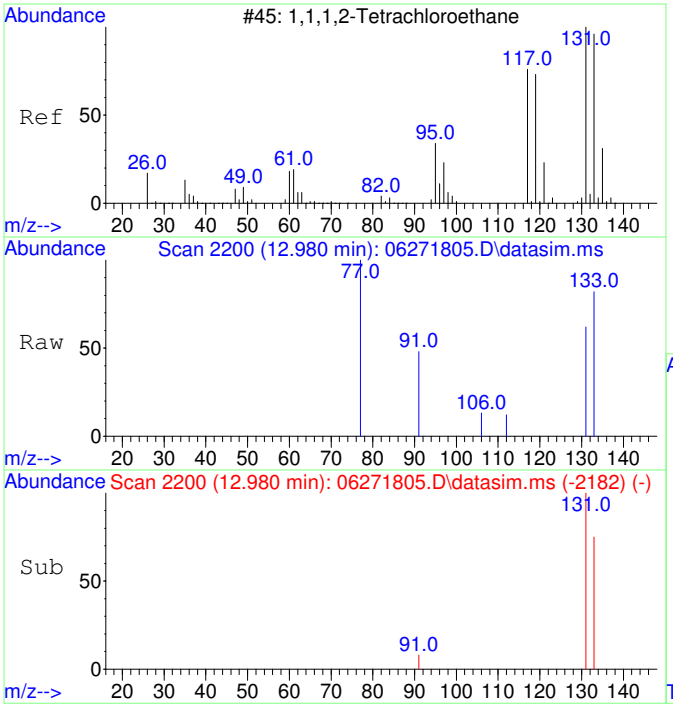


#16
Chlorobenzene
Concen: 52.69 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:112 Resp: 1510

Ion	Ratio	Lower	Upper
112	100		
77	73.7	28.1	88.1

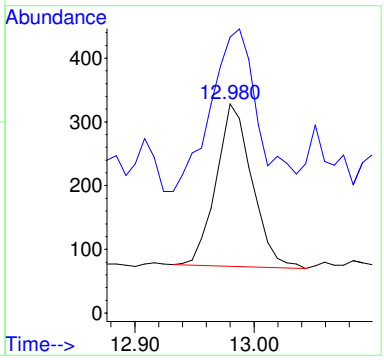


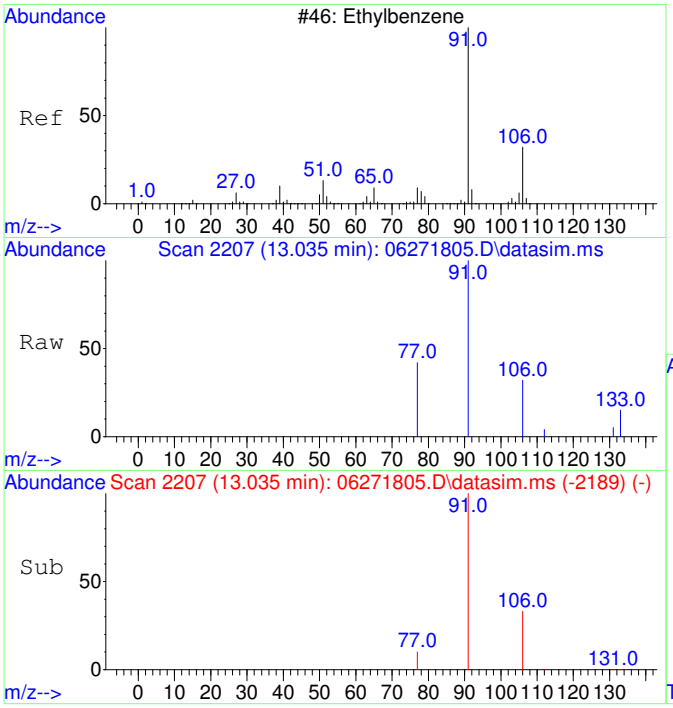


#17
1,1,1,2-Tetrachloroethane
Concen: 54.80 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:131 Resp: 533

Ion	Ratio	Lower	Upper
131	100		
133	130.6	66.2	126.2#

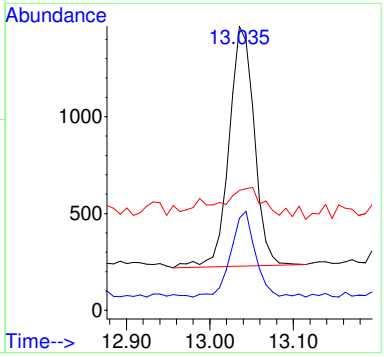


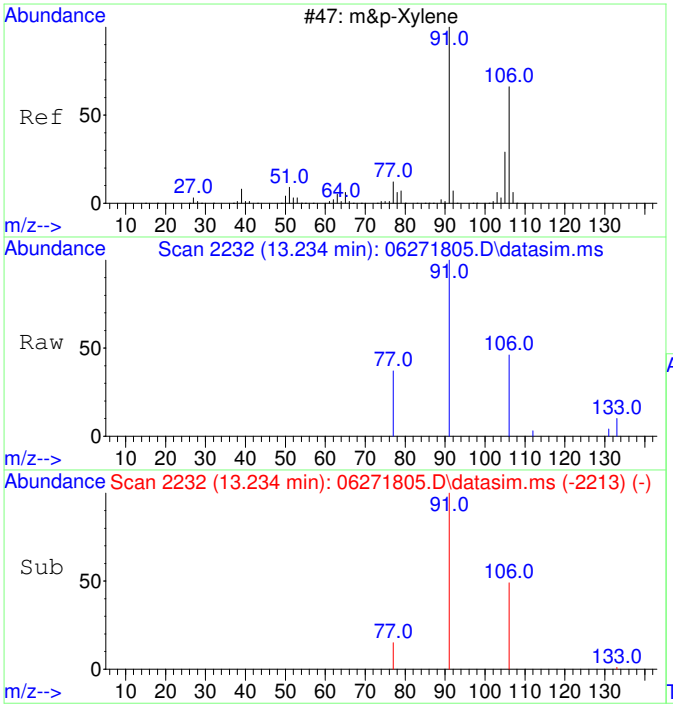


#18
Ethylbenzene
Concen: 54.00 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2602

Ion	Ratio	Lower	Upper
91	100		
106	34.6	2.8	62.8
77	16.3	0.0	38.6

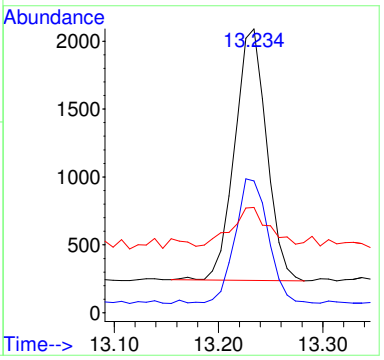


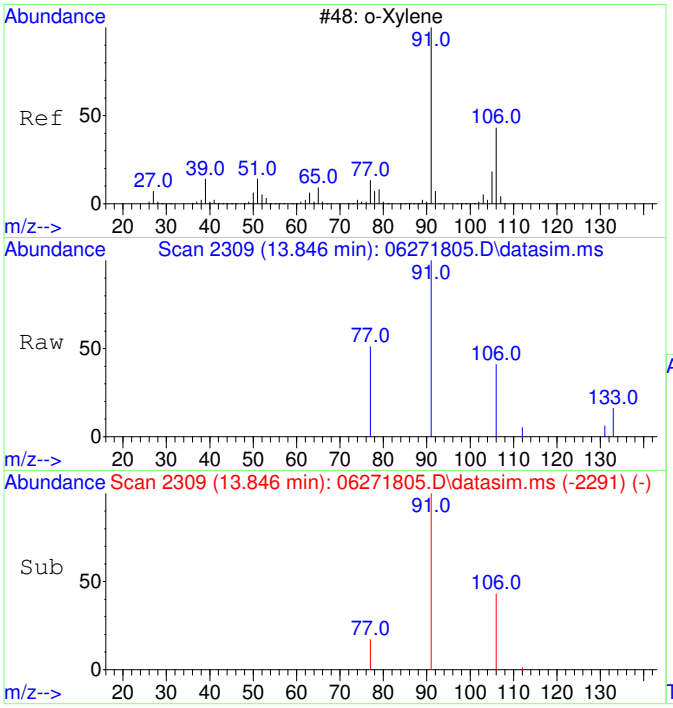


#19
m&p-Xylene
Concen: 105.34 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 3918

Ion	Ratio	Lower	Upper
91	100		
106	50.8	21.2	81.2
77	20.1	0.0	42.9

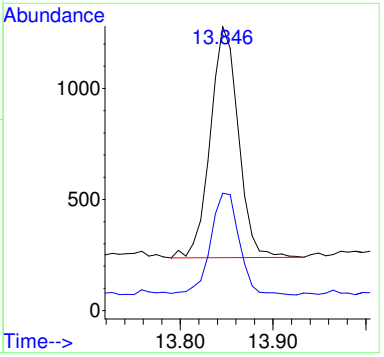


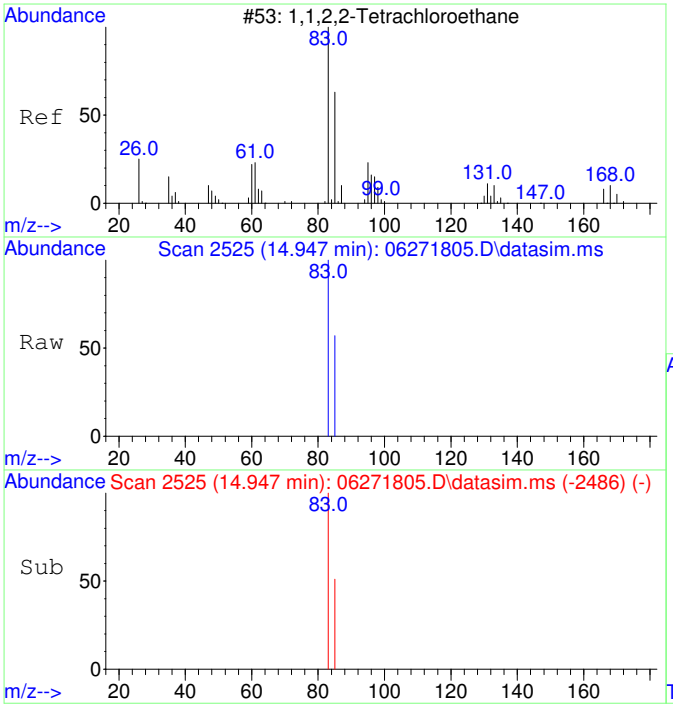


#20
o-Xylene
Concen: 55.47 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2185

Ion	Ratio	Lower	Upper
91	100		
106	45.3	18.3	78.3

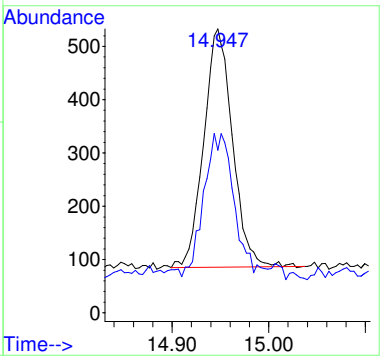


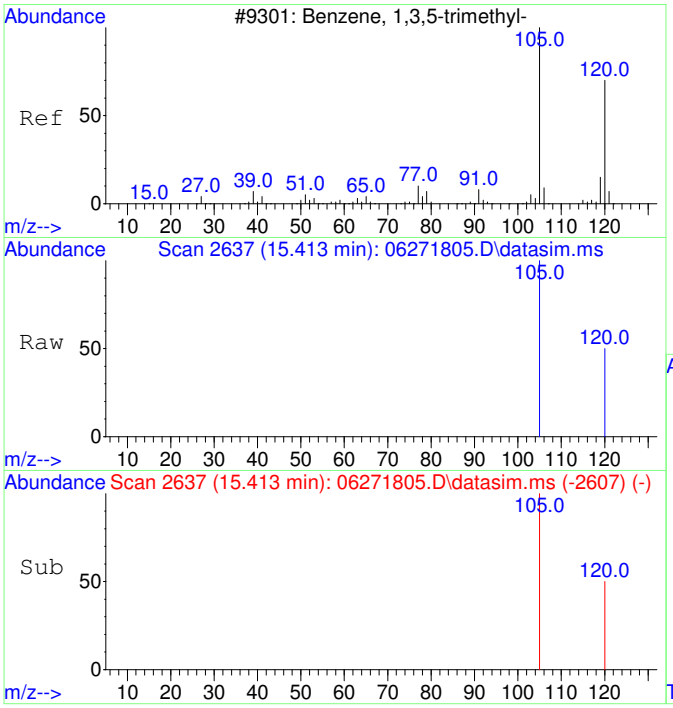


#21
1,1,2,2-Tetrachloroethane
Concen: 54.64 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 927

Ion	Ratio	Lower	Upper
83	100		
85	63.2	34.4	94.4

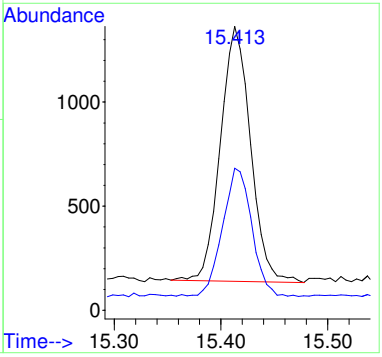


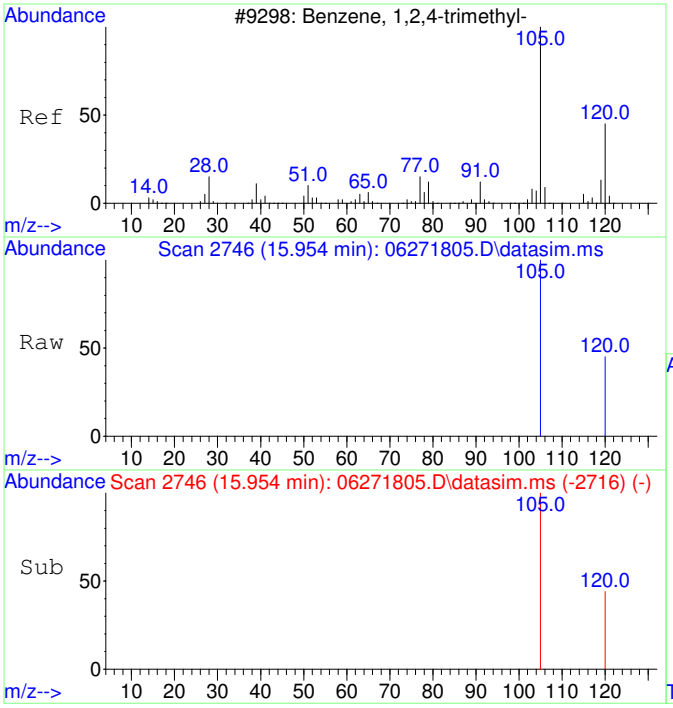


#22
1,3,5-Trimethylbenzene
Concen: 53.76 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.001 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 2396

Ion	Ratio	Lower	Upper
105	100		
120	48.5	19.1	79.1

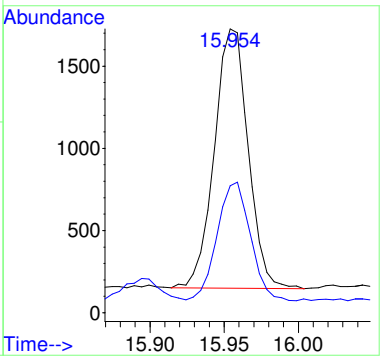


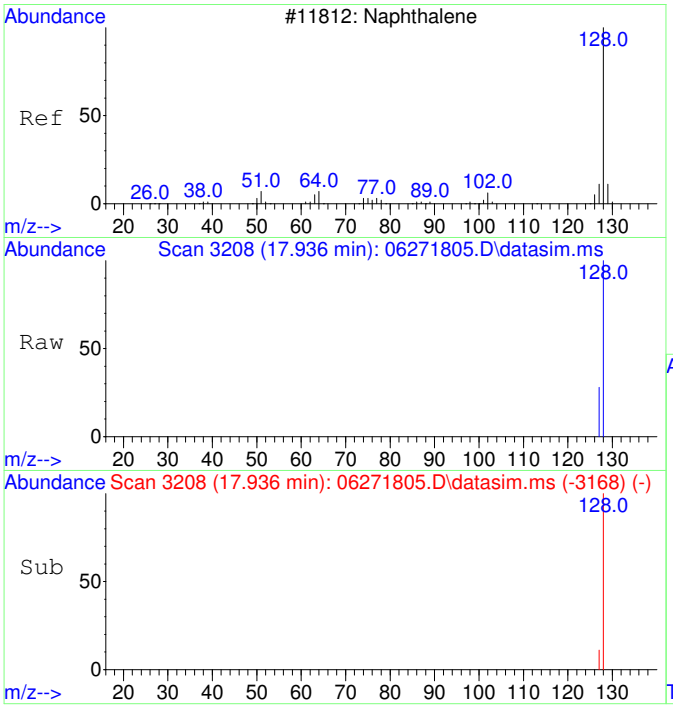


#23
1,2,4-Trimethylbenzene
Concen: 56.28 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 2509

Ion	Ratio	Lower	Upper
105	100		
120	44.4	15.5	75.5

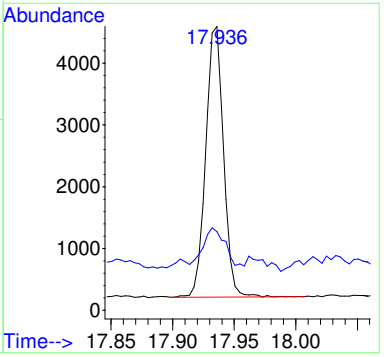


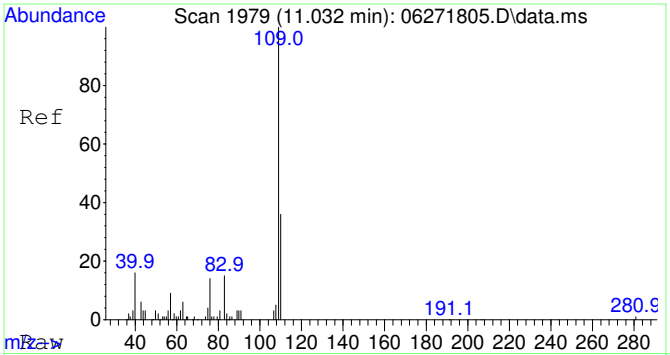


#24
Naphthalene
Concen: 60.06 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:128 Resp: 4394

Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	42.5

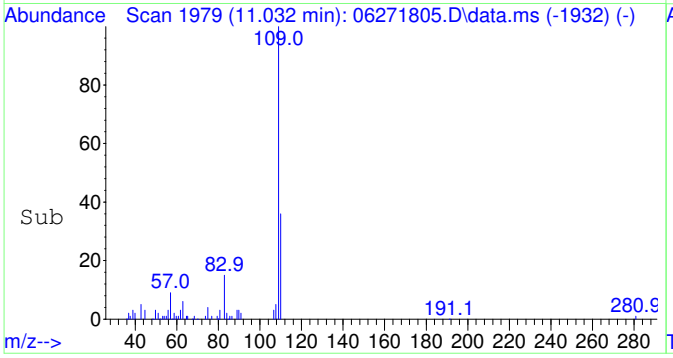


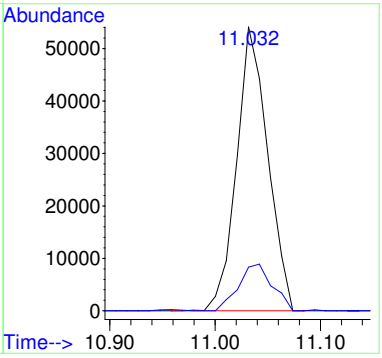


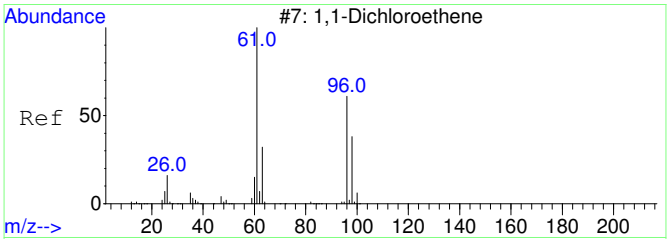
#25
2-Fluorotoluene SCAN
Concen: 5168.16 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:109 Resp: 111042

Ion	Ratio	Lower	Upper
109	100		
83	17.9	0.0	45.7



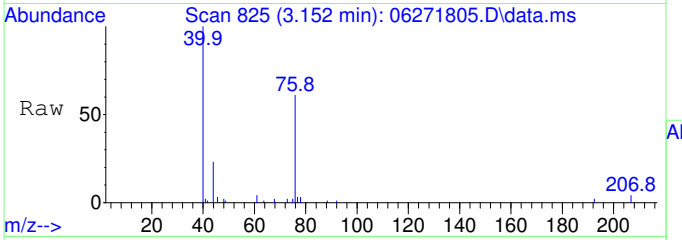


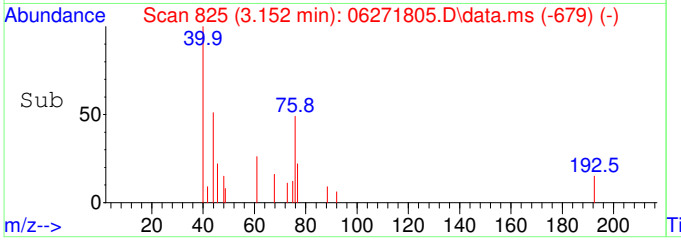


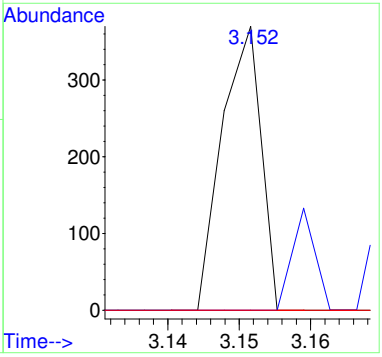
#26
1,1-Dichloroethene SCAN
Concen: 26.11 ug/L
RT: 3.152 min Scan# 825
Delta R.T. 0.041 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

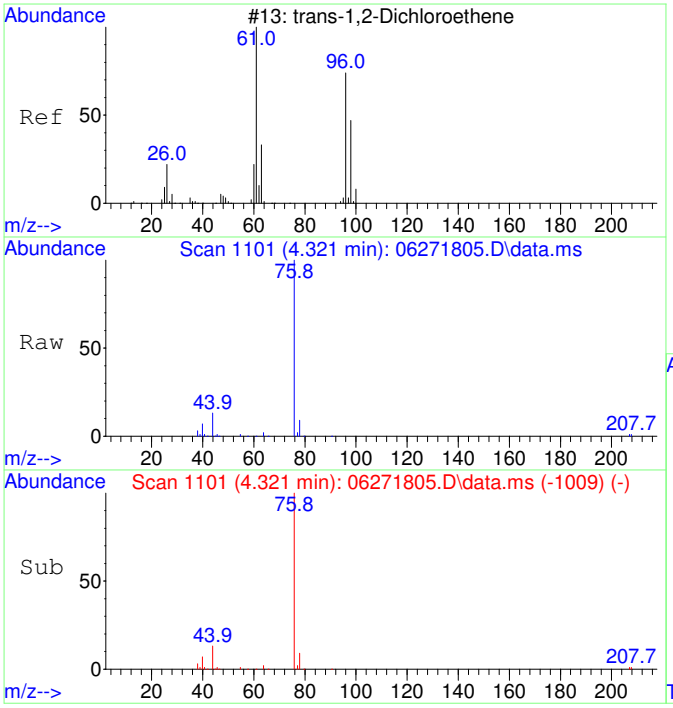
Tgt Ion: 61 Resp: 140

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





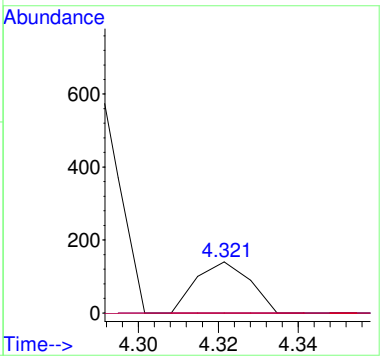


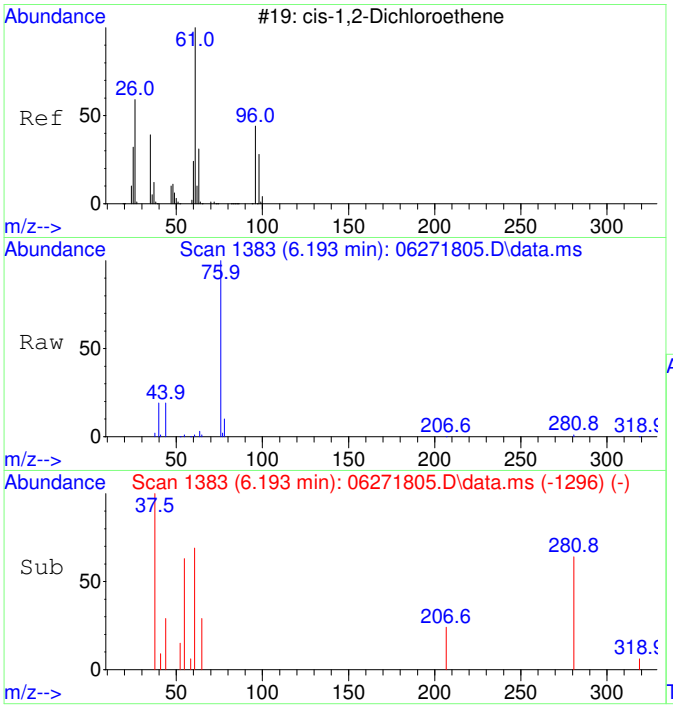


#27
trans-1,2-Dichloroethene SCAN
Concen: 20.99 ug/L
RT: 4.321 min Scan# 1101
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

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#

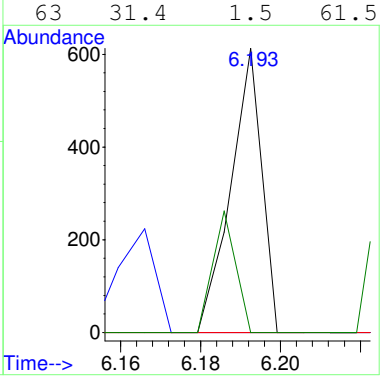


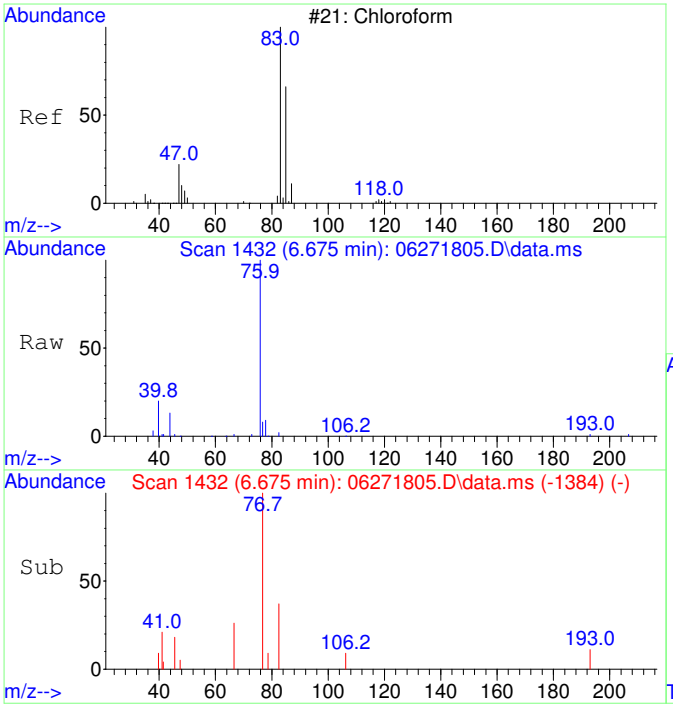


#29
cis-1,2-Dichloroethene SCAN
Concen: 48.20 ug/L
RT: 6.193 min Scan# 1383
Delta R.T. 0.080 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 331

Ion	Ratio	Lower	Upper
61	100		
96	0.0	28.2	88.2#
98	0.0	14.1	74.1#
63	31.4	1.5	61.5

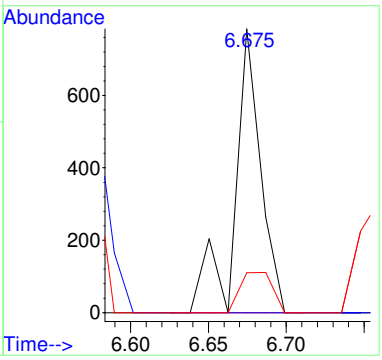


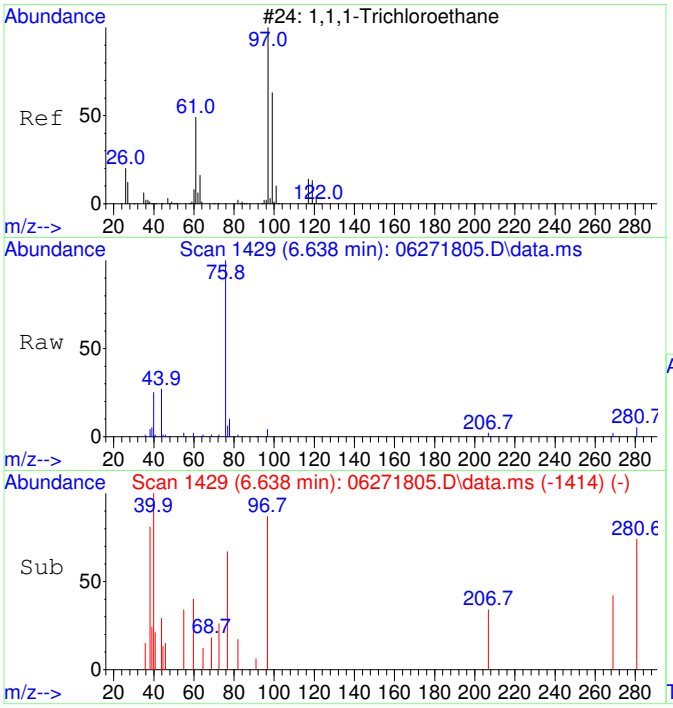


#30
Chloroform SCAN
Concen: 108.43 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 914

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	17.6	0.0	57.9

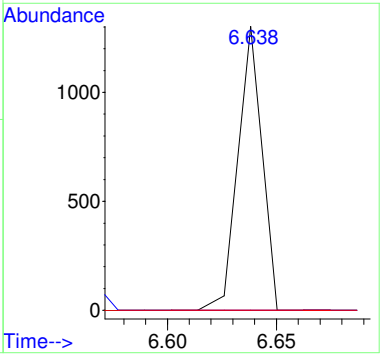


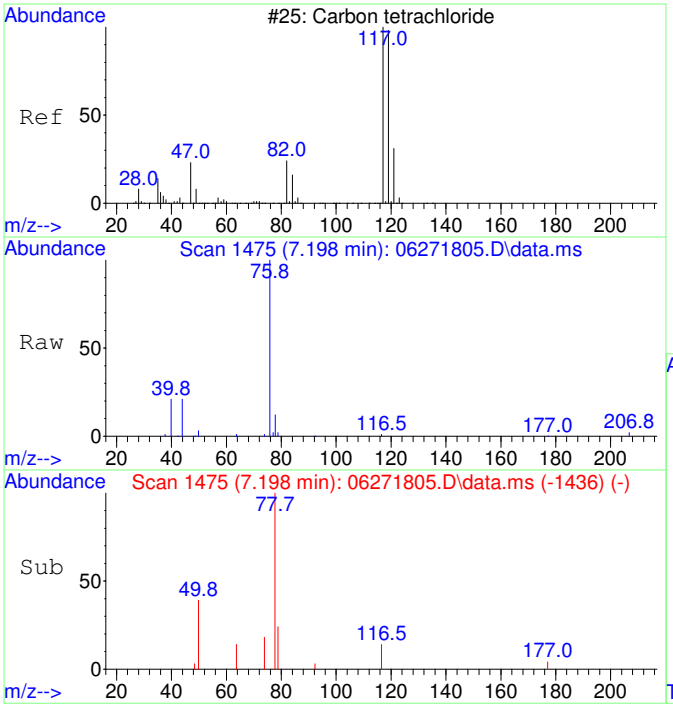


#31
1,1,1-Trichloroethane SCAN
Concen: 133.14 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.316 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 999

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

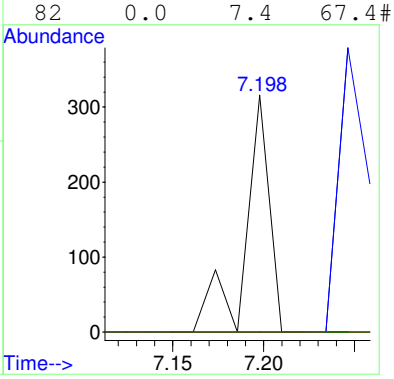


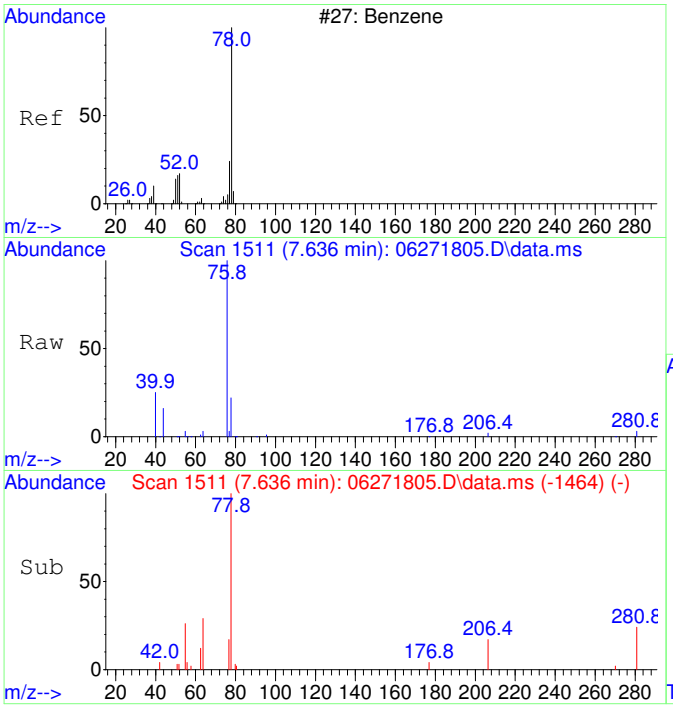


#32
Carbon tetrachloride SCAN
Concen: 39.36 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. -0.024 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:117 Resp: 291

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#

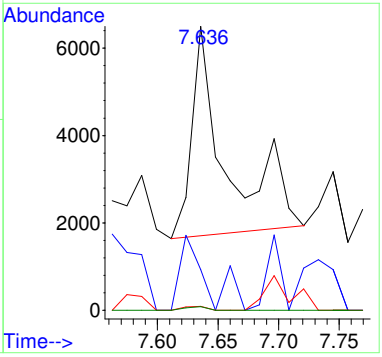


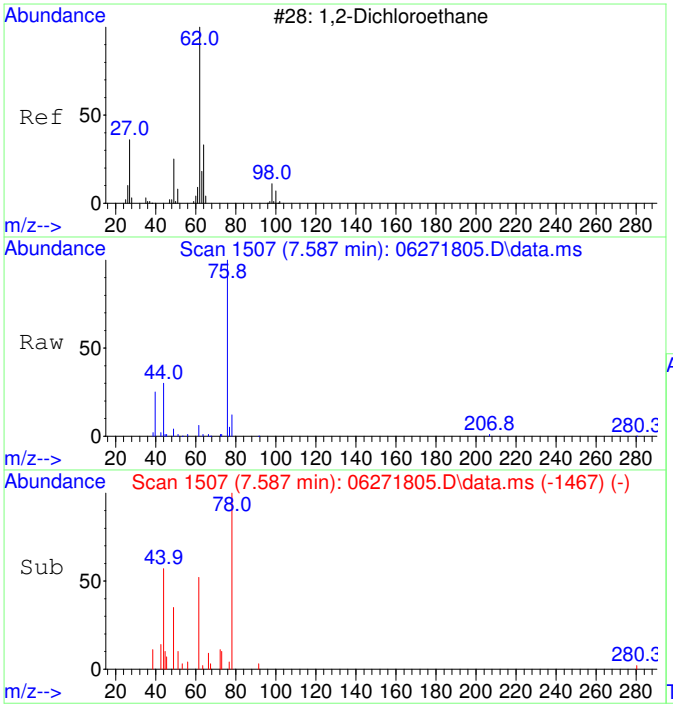


#33
Benzene SCAN
Concen: 423.48 ug/L
RT: 7.636 min Scan# 1511
Delta R.T. 0.073 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 78 Resp: 9476

Ion	Ratio	Lower	Upper
78	100		
77	20.4	3.0	63.0
51	1.3	0.0	56.4
52	1.1	0.0	48.0

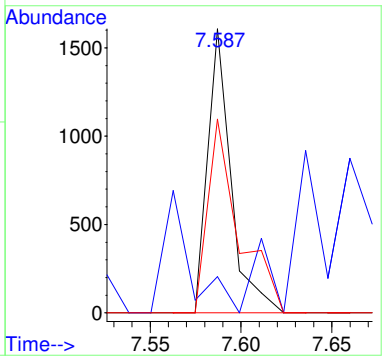


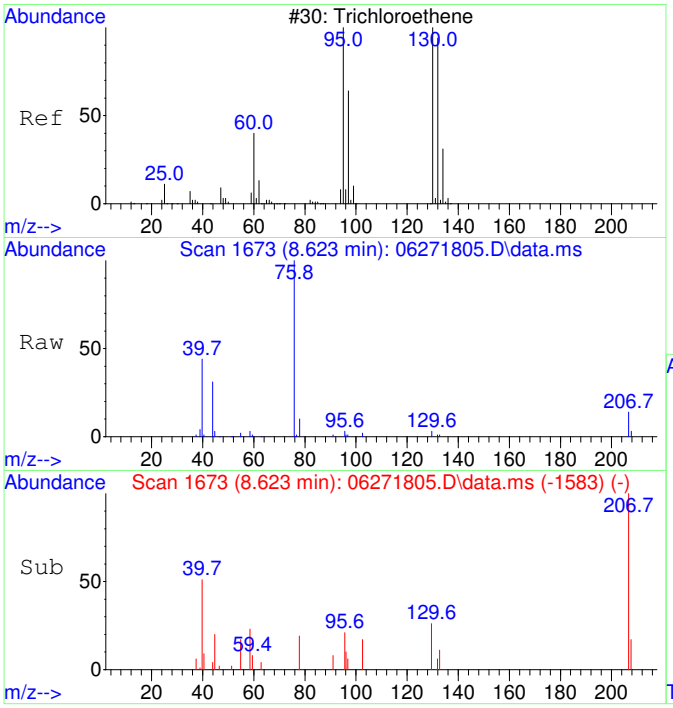


#34
1,2-Dichloroethane SCAN
Concen: 187.26 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 62 Resp: 1429

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	91.2	10.4	70.4#

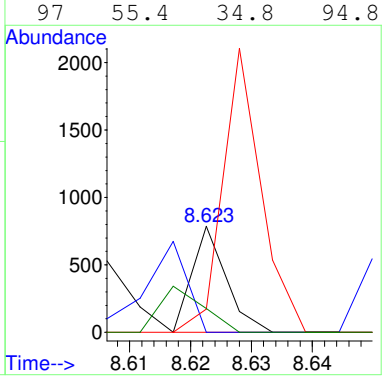


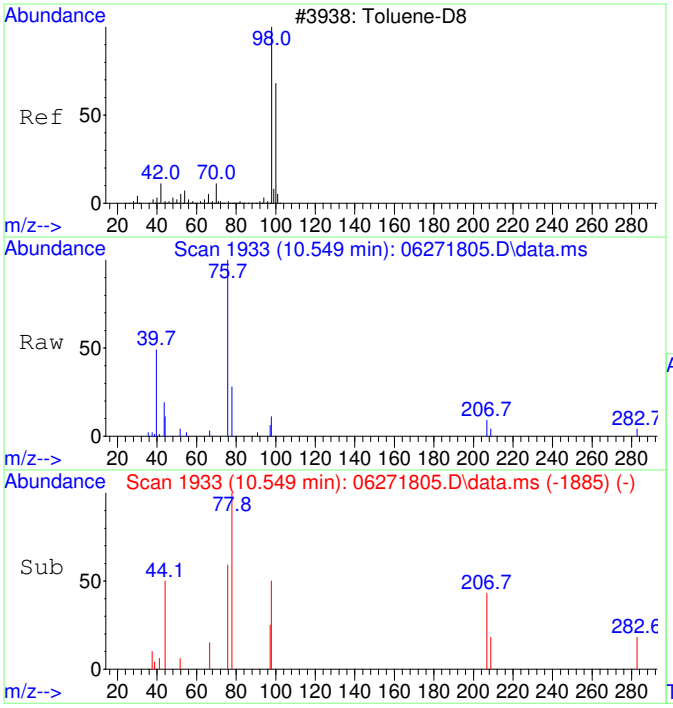


#35
Trichloroethene SCAN
Concen: 56.07 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:130 Resp: 307

Ion	Ratio	Lower	Upper
130	100		
95	109.1	70.5	130.5
132	299.7	63.8	123.8#
97	55.4	34.8	94.8

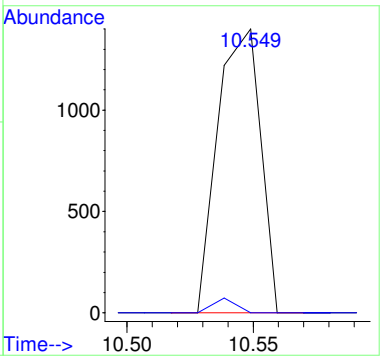


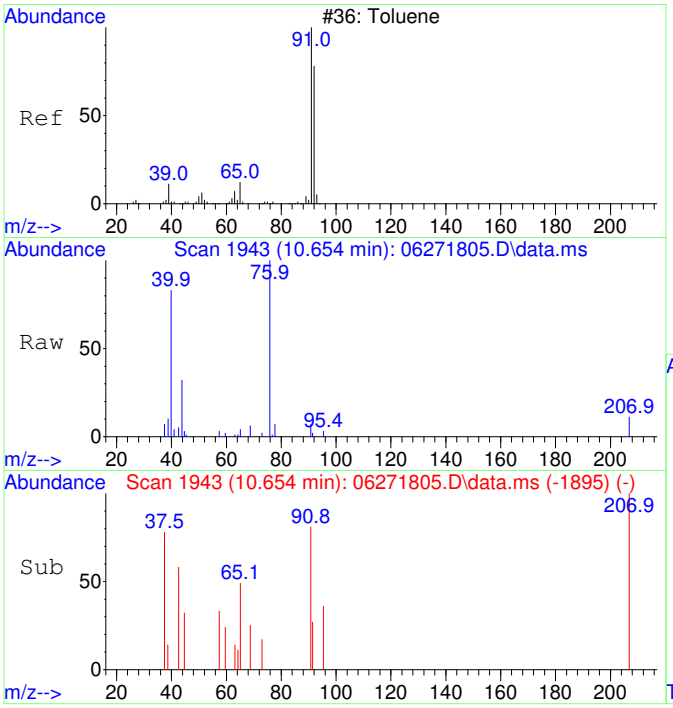


#36
Toluene-d8 SCAN
Concen: 85.00 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 98 Resp: 1651

Ion	Ratio	Lower	Upper
98	100		
100	0.0	39.5	99.5#

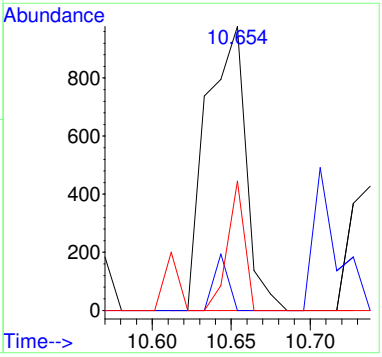


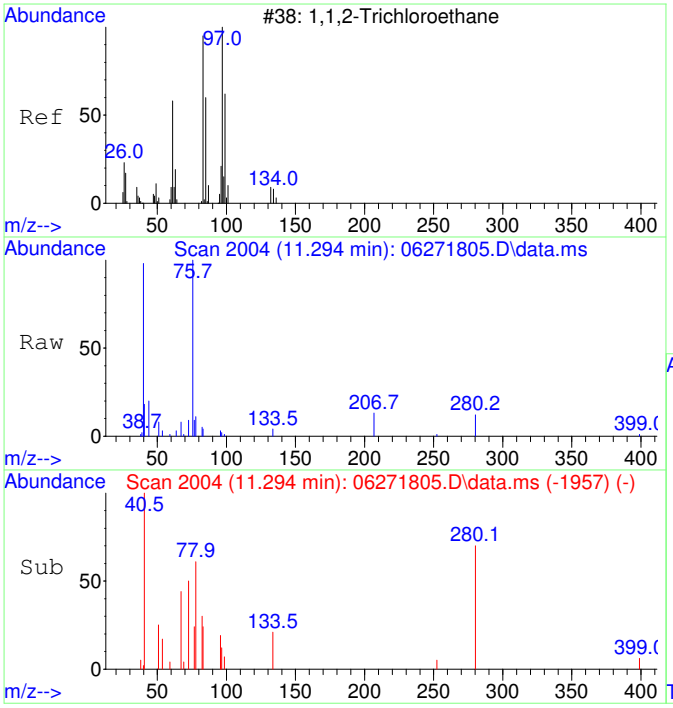


#37
Toluene SCAN
Concen: 68.64 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 1703

Ion	Ratio	Lower	Upper
91	100		
92	7.2	26.6	86.6#
65	19.6	0.0	42.3

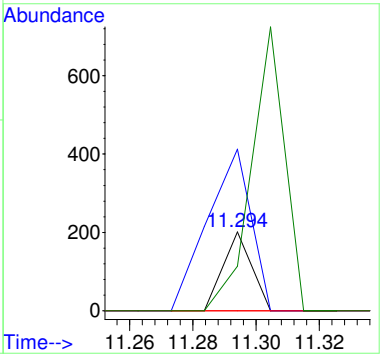


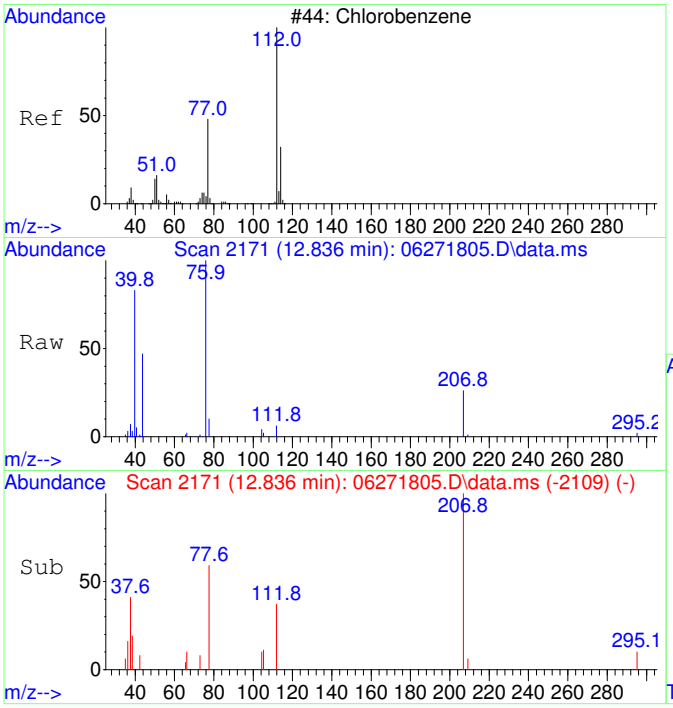


#38
1,1,2-Trichloroethane SCAN
Concen: 26.71 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 127

Ion	Ratio	Lower	Upper
97	100		
83	311.0	63.6	123.6#
61	0.0	44.9	104.9#
99	415.7	37.0	97.0#

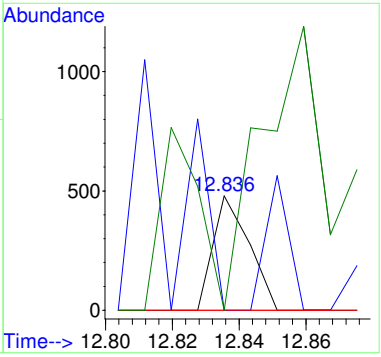


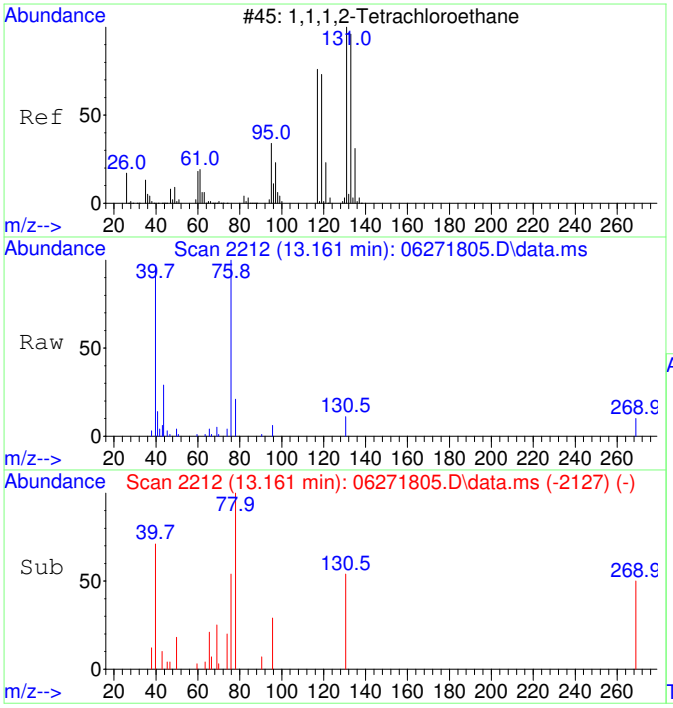


#40
Chlorobenzene SCAN
Concen: 23.79 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:112 Resp: 358

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

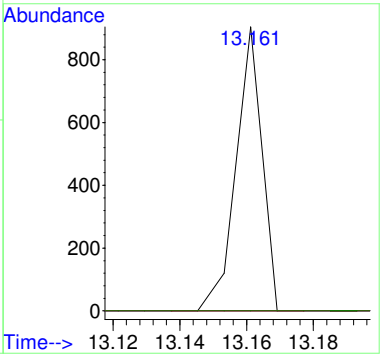


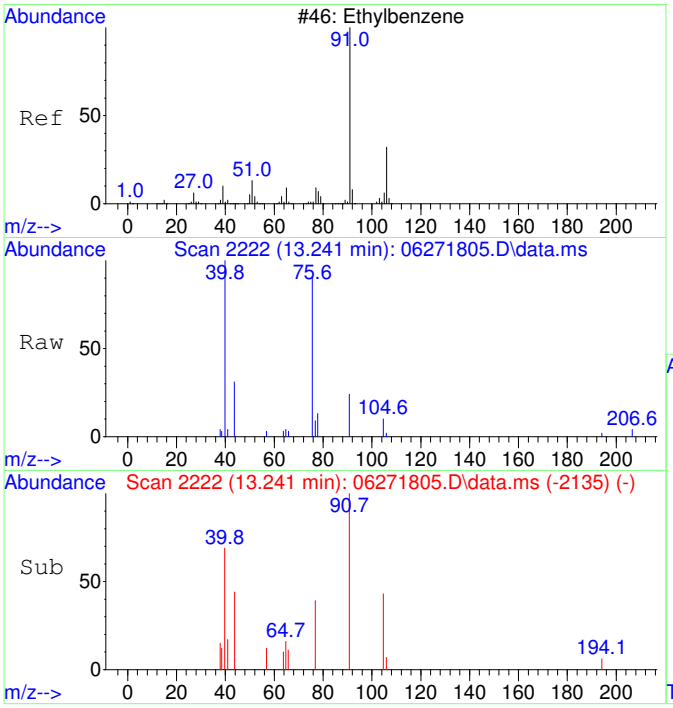


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 91.02 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.175 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:131 Resp: 489

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#

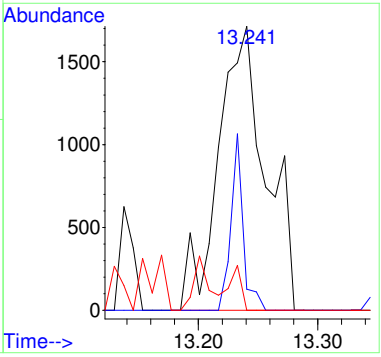


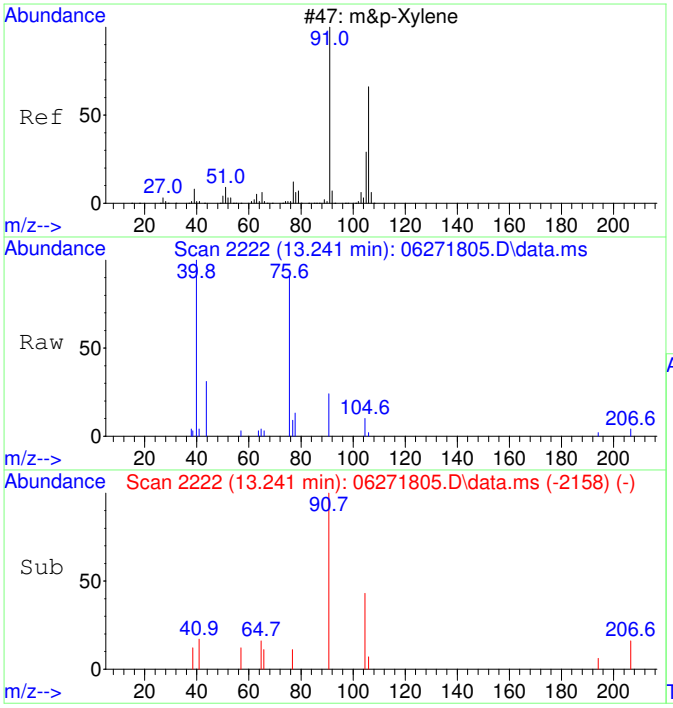


#42
Ethylbenzene SCAN
Concen: 164.43 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.191 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 4742

Ion	Ratio	Lower	Upper
91	100		
106	16.0	3.2	63.2
51	2.7	0.0	40.1

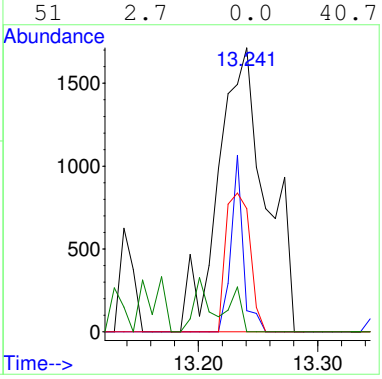


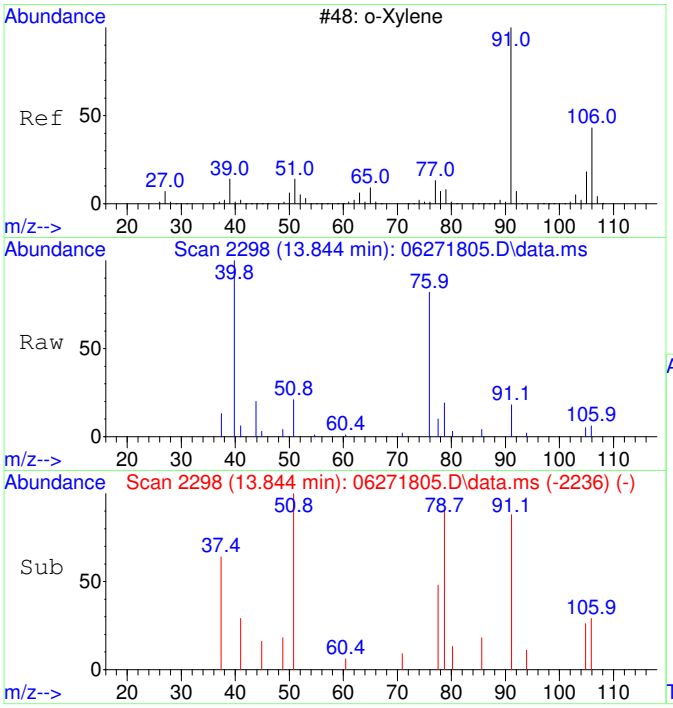


#43
m&p-Xylene SCAN
Concen: 118.46 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 4742

Ion	Ratio	Lower	Upper
91	100		
106	16.0	20.1	80.1#
105	25.1	0.0	51.1
51	2.7	0.0	40.7

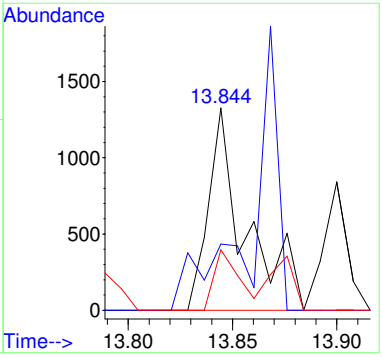


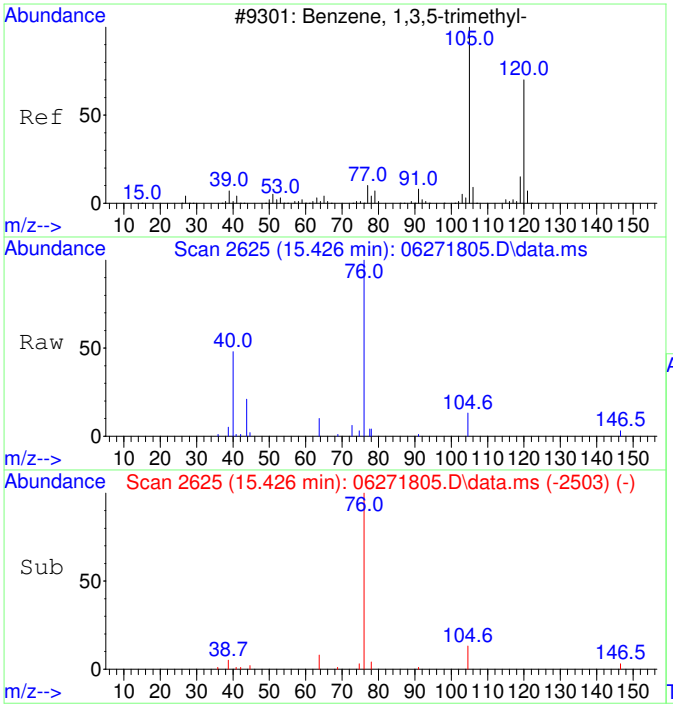


#44
o-Xylene SCAN
Concen: 71.85 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 1637

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	17.1	0.0	55.2

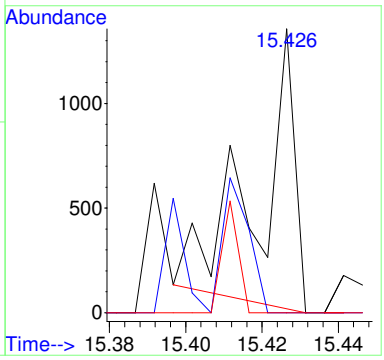


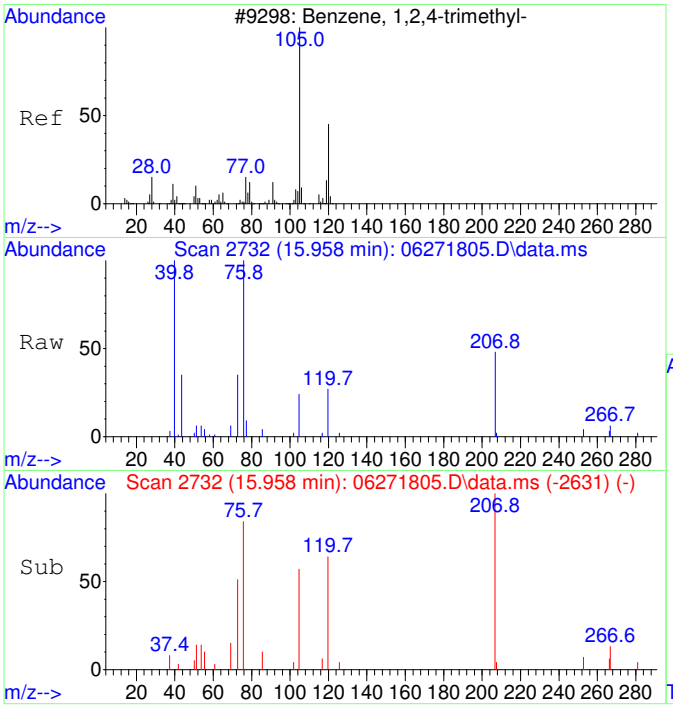


#46
1,3,5-Trimethylbenzene SCAN
Concen: 39.04 ug/L
RT: 15.426 min Scan# 2625
Delta R.T. 0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 882

Ion	Ratio	Lower	Upper
105	100		
120	35.3	16.8	76.8
119	18.0	0.0	41.5

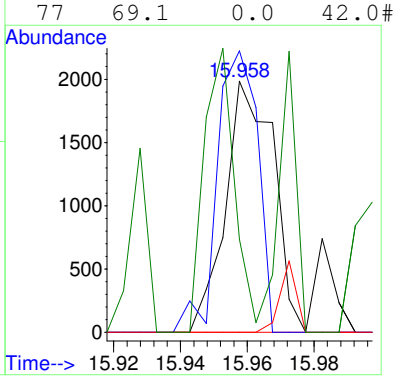


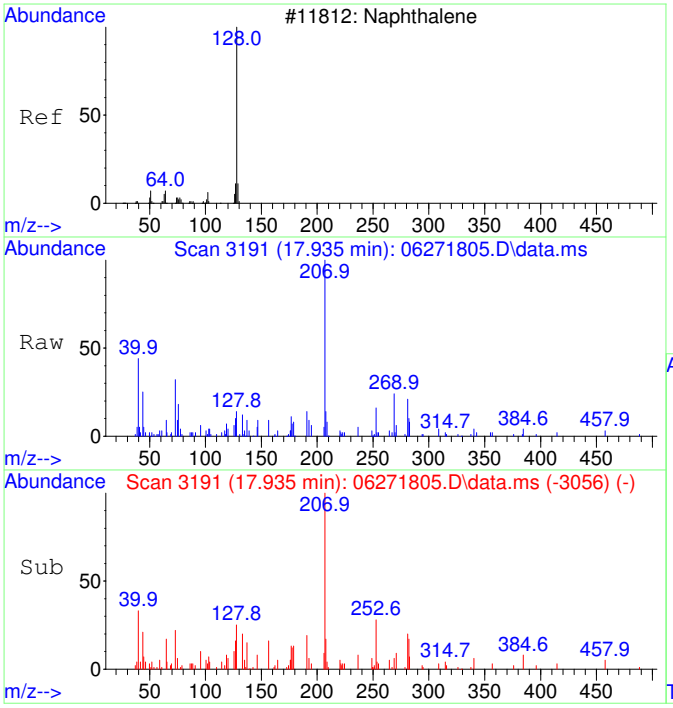


#47
1,2,4-Trimethylbenzene SCAN
Concen: 85.69 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 1984

Ion	Ratio	Lower	Upper
105	100		
120	94.1	15.4	75.4#
119	0.0	0.0	41.7
77	69.1	0.0	42.0#

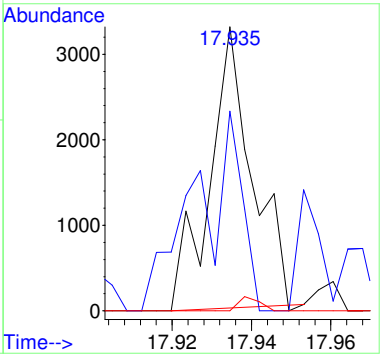




#48
Naphthalene SCAN
Concen: 74.50 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. -0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:128 Resp: 2461

Ion	Ratio	Lower	Upper
128	100		
127	32.3	0.0	43.9
129	2.5	0.0	40.5



B18F097-BLK1

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271806.D
Acq On : 27 Jun 2018 11:30
InstName : AG5975C
Operator : TD
Sample : B18F097-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

NOT USED

Quant Time: Jun 27 11:55:51 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

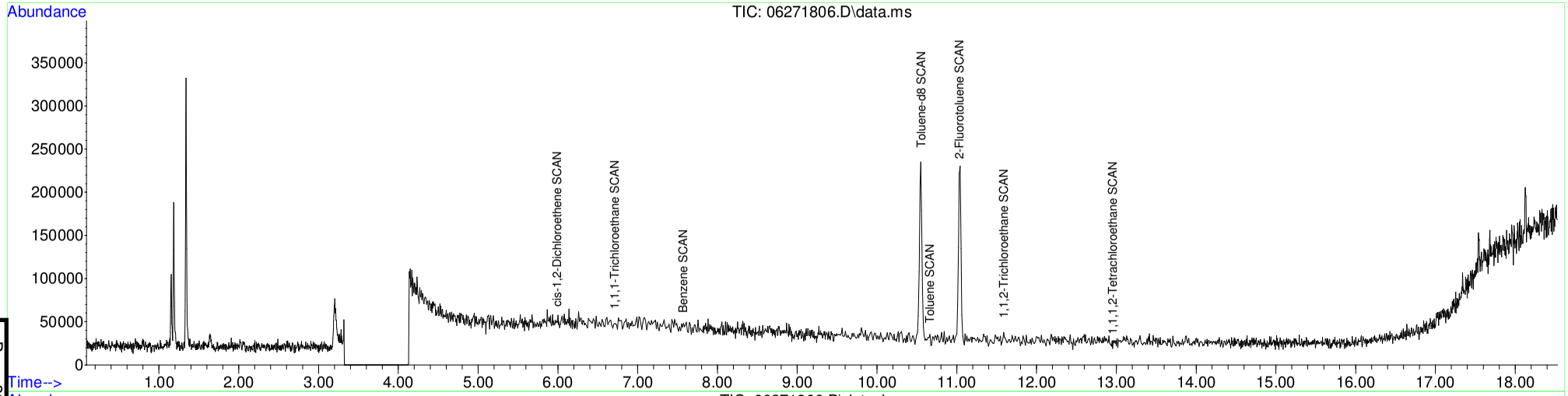
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 2-Fluorotoluene	11.033	109	292160	5000.00	ug/L	0.00	IS ↑
System Monitoring Compounds							
12) Toluene-d8	10.540	98	246945	5203.70	ug/L	-0.01	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.07%				
Target Compounds						Qvalue	
9] Benzene	7.552	78	1548	33.00	ug/L	48	
25) 2-Fluorotoluene SCAN	11.032	109	171555	5039.15	ug/L	98	
29) cis-1,2-Dichloroethene...	5.987	61	242	22.24	ug/L #	1	
31) 1,1,1-Trichloroethane ...	6.711	97	378	31.79	ug/L #	26	
33) Benzene SCAN	7.563	78	7695	217.03	ug/L #	48	
36) Toluene-d8 SCAN	10.549	98	157530	5118.59	ug/L	96	
37) Toluene SCAN	10.654	91	1179	29.99	ug/L #	79	
38) 1,1,2-Trichloroethane ...	11.588	97	503	66.77	ug/L #	10	
41) 1,1,1,2-Tetrachloroeth...	12.955	131	309	36.30	ug/L #	13	

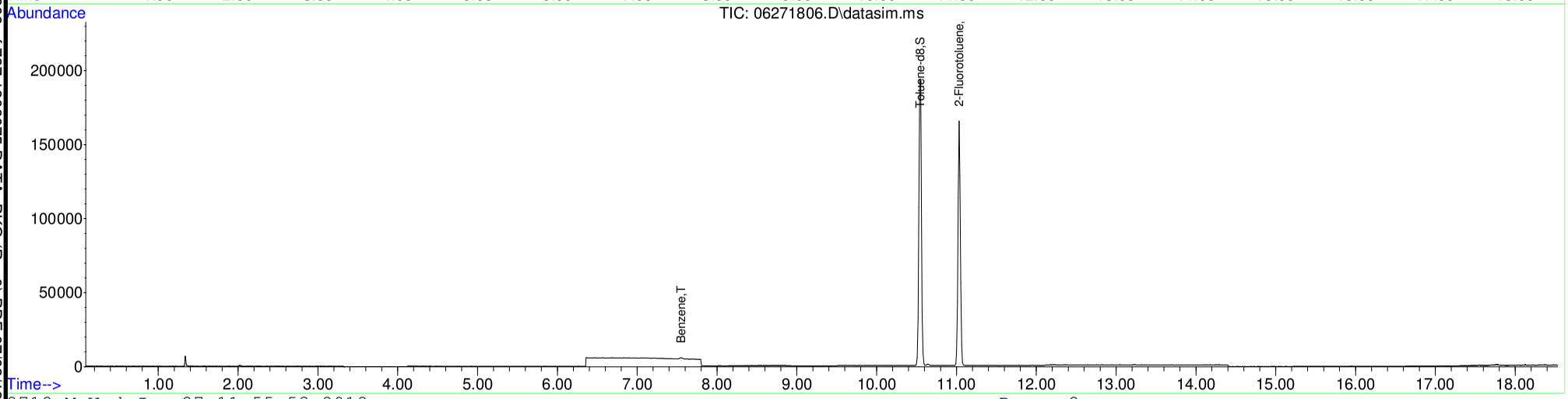
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271806.D
Acq On : 27 Jun 2018 11:30
InstName : AG5975C
Operator : TD
Sample : B18F097-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 11:55:51 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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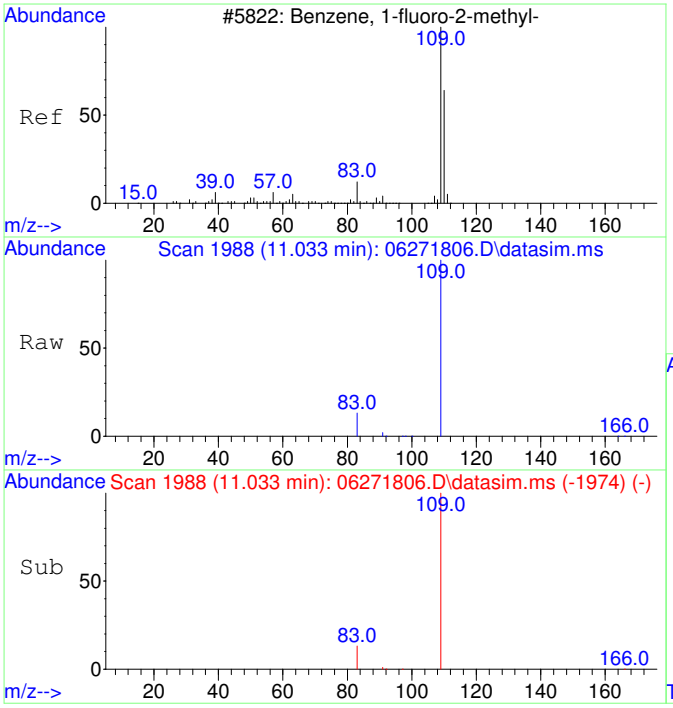
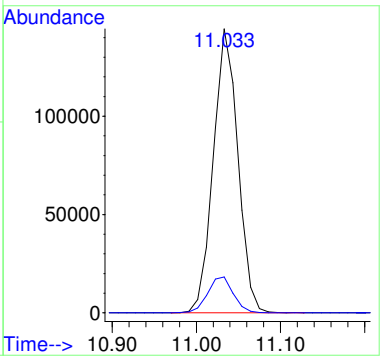
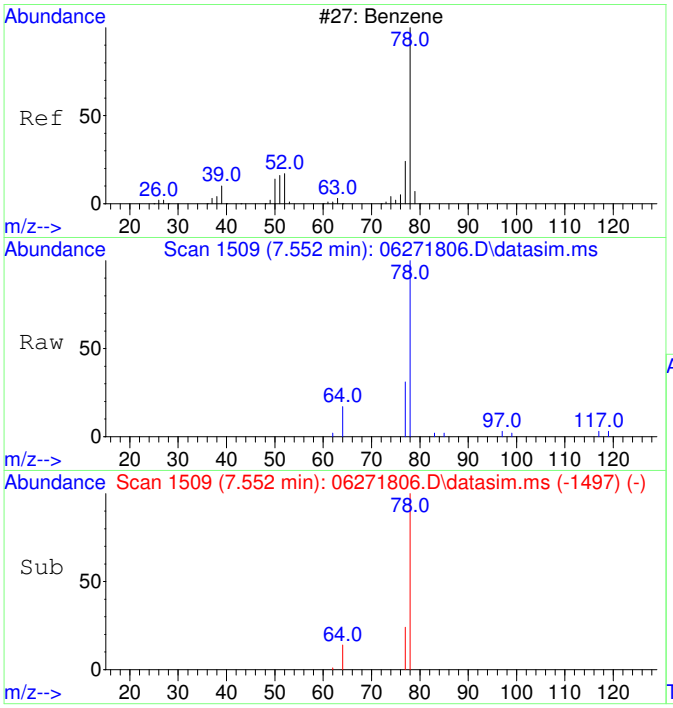


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion:109 Resp: 292160

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

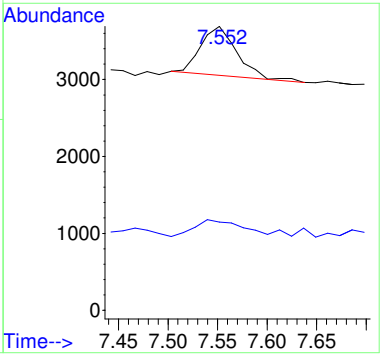


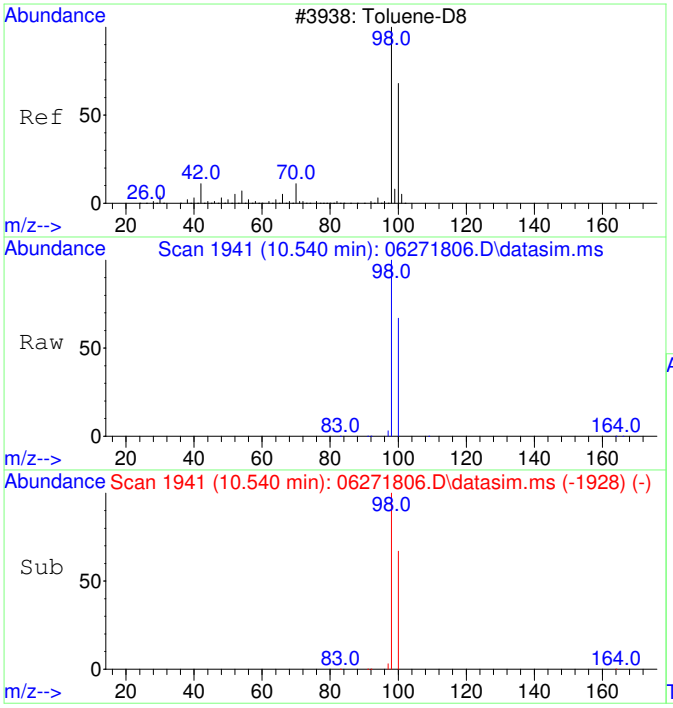


#9
Benzene
Concen: 33.00 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion: 78 Resp: 1548

Ion	Ratio	Lower	Upper
78	100		
77	48.1	0.0	53.0

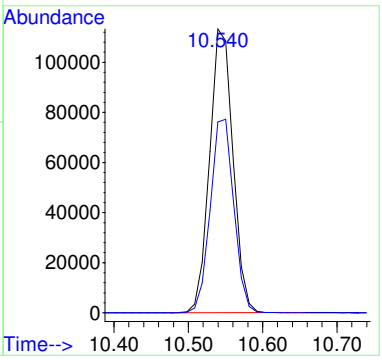


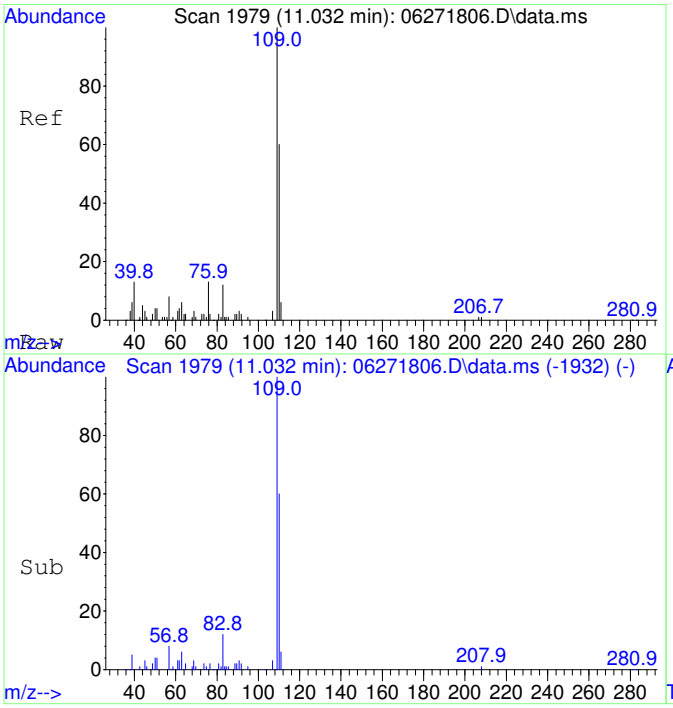


#12
Toluene-d8
Concen: 5203.70 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.010 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion: 98 Resp: 246945

Ion	Ratio	Lower	Upper
98	100		
100	68.6	38.7	98.7

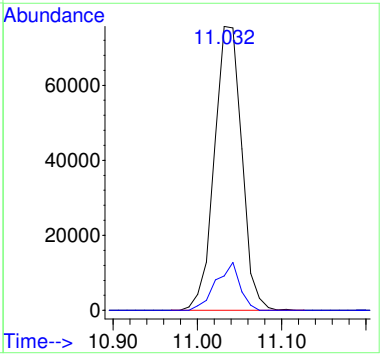


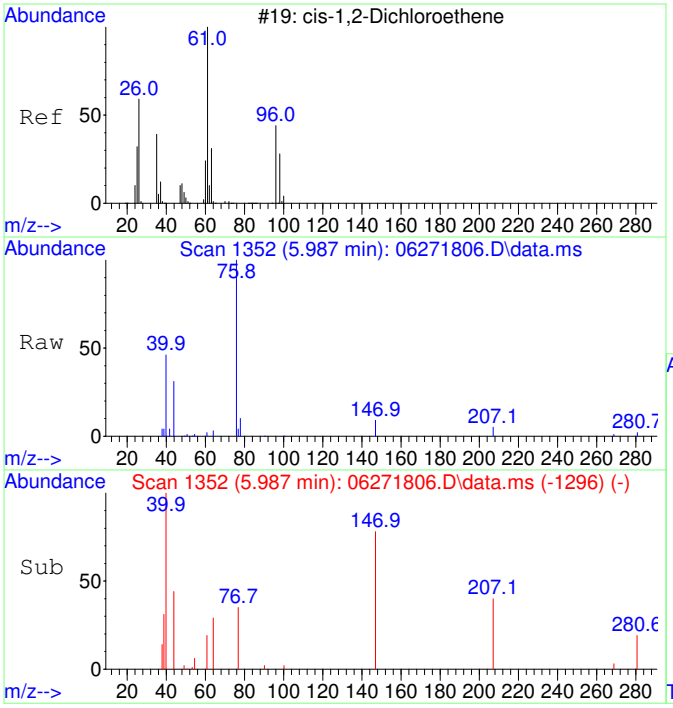


#25
2-Fluorotoluene SCAN
Concen: 5039.15 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.010 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion:109 Resp: 171555

Ion	Ratio	Lower	Upper
109	100		
83	14.8	0.0	45.7

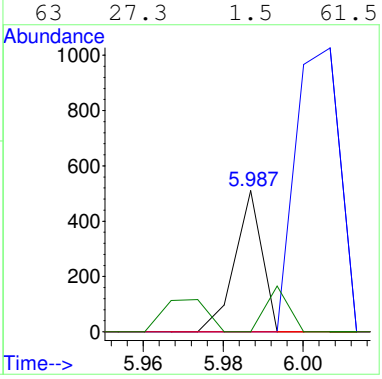


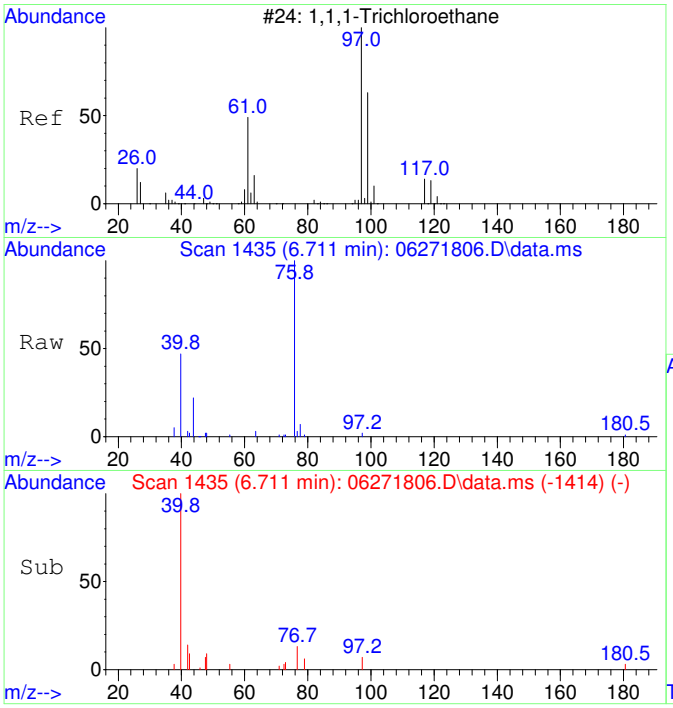


#29
cis-1,2-Dichloroethene SCAN
Concen: 22.24 ug/L
RT: 5.987 min Scan# 1352
Delta R.T. -0.126 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion: 61 Resp: 242

Ion	Ratio	Lower	Upper
61	100		
96	328.1	28.2	88.2#
98	0.0	14.1	74.1#
63	27.3	1.5	61.5

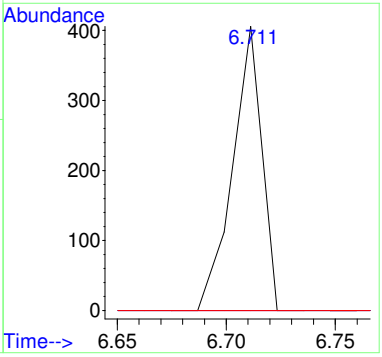


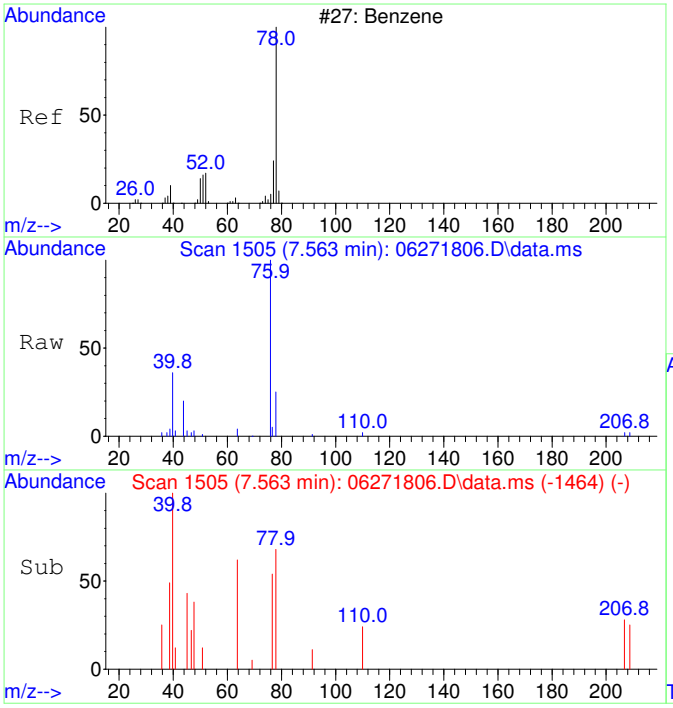


#31
1,1,1-Trichloroethane SCAN
Concen: 31.79 ug/L
RT: 6.711 min Scan# 1435
Delta R.T. -0.243 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion: 97 Resp: 378

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

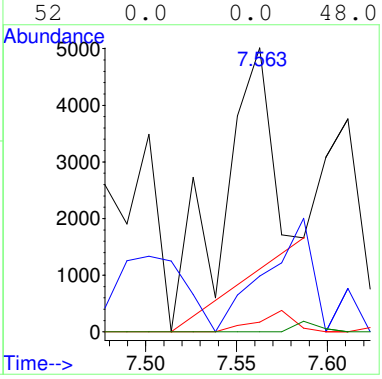


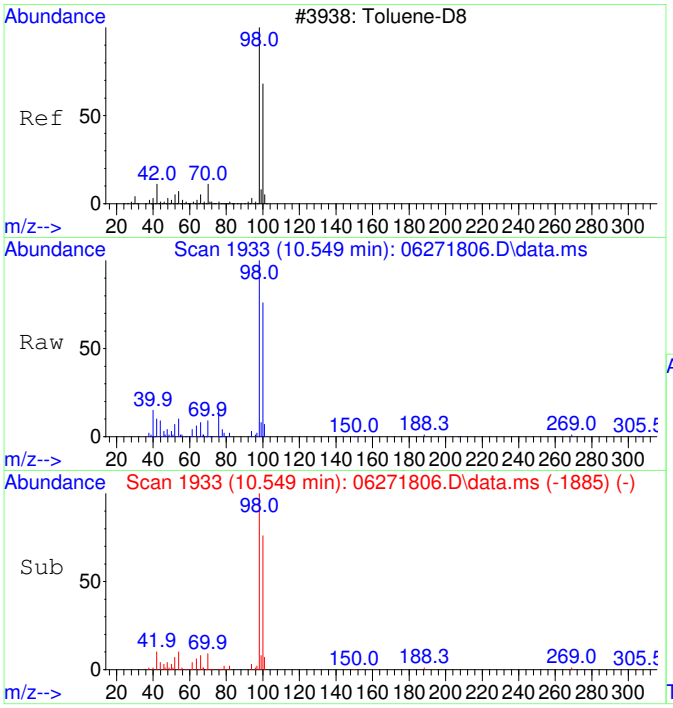


#33
Benzene SCAN
Concen: 217.03 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.000 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion: 78 Resp: 7695

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

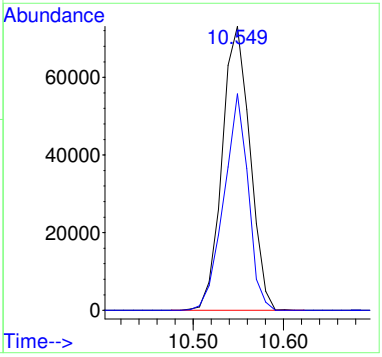


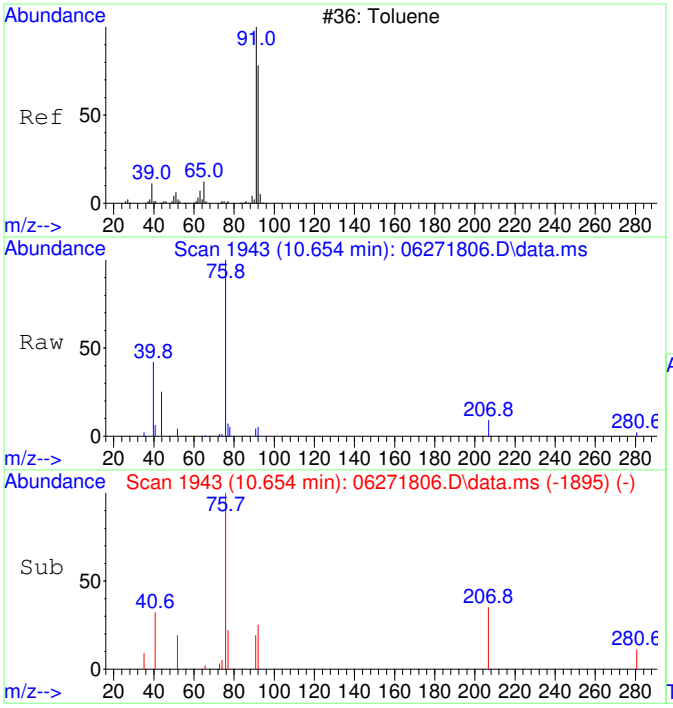


#36
Toluene-d8 SCAN
Concen: 5118.59 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion: 98 Resp: 157530

Ion	Ratio	Lower	Upper
98	100		
100	66.5	39.5	99.5

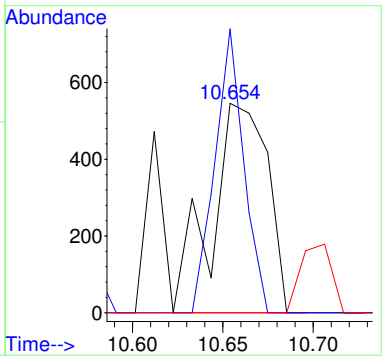


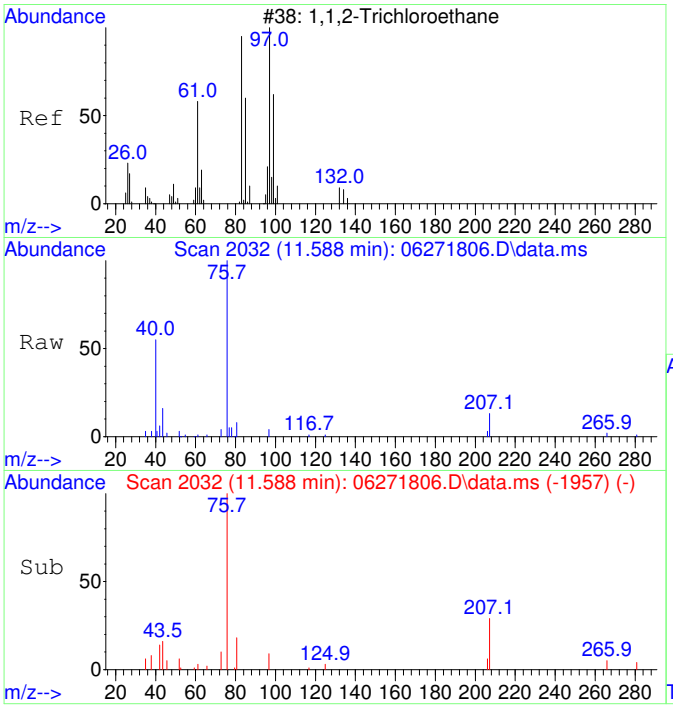


#37
Toluene SCAN
Concen: 29.99 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion: 91 Resp: 1179

Ion	Ratio	Lower	Upper
91	100		
92	70.0	26.6	86.6
65	0.0	0.0	42.3

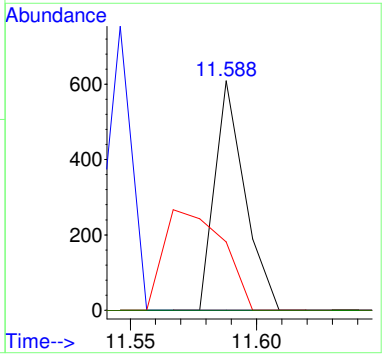


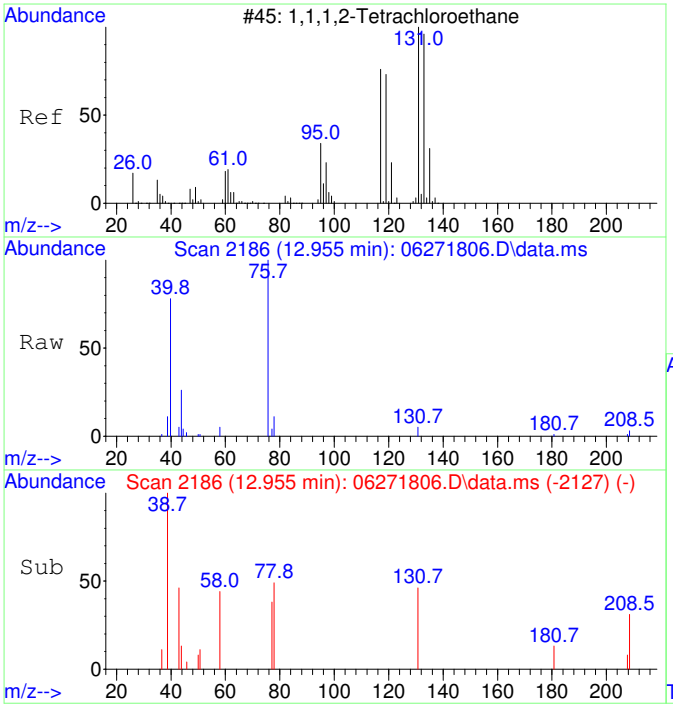


#38
1,1,2-Trichloroethane SCAN
Concen: 66.77 ug/L
RT: 11.588 min Scan# 2032
Delta R.T. 0.283 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion: 97 Resp: 503

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#

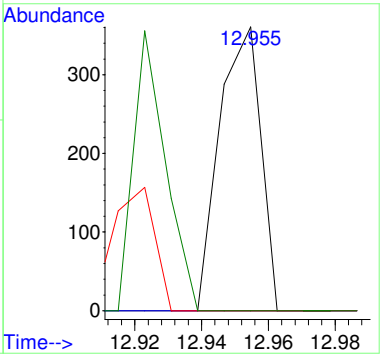




#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 36.30 ug/L
RT: 12.955 min Scan# 2186
Delta R.T. -0.032 min
Lab File: 06271806.D
Acq: 27 Jun 2018 11:30

Tgt Ion:131 Resp: 309

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#



B18F097-BSD2

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271808.D
Acq On : 27 Jun 2018 12:17
InstName : AG5975C
Operator : TD
Sample : B18F097-BSD1 also as B18F097-BSD2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 12:36:25 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

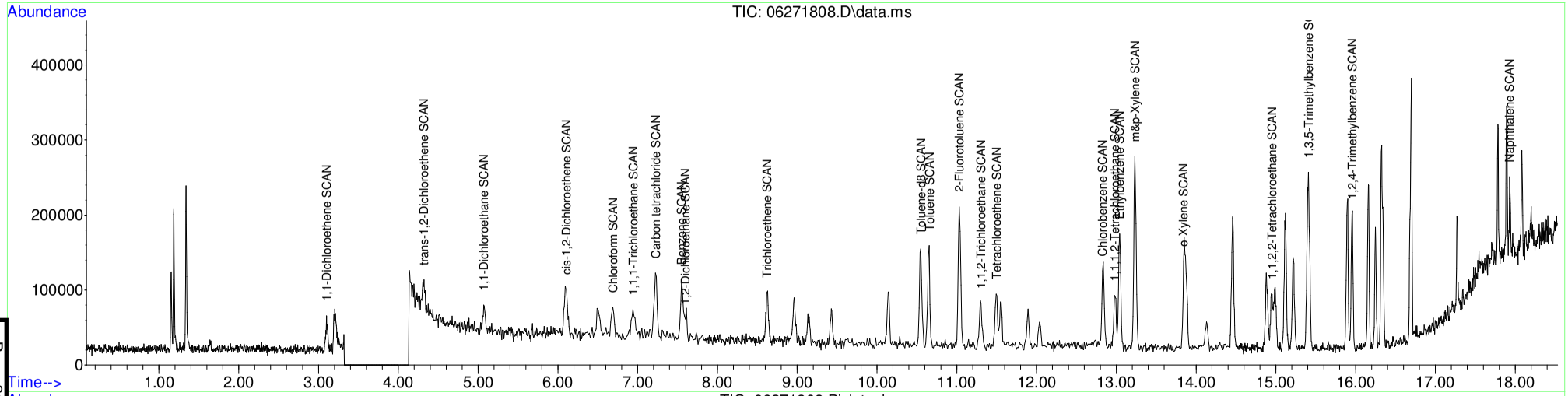
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	174072	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	147474	5215.78 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.32%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	32631	4473.12 ug/L	100
3] trans-1,2-Dichloroethene	4.316	61	37521	4820.43 ug/L	100
4] 1,1-Dichloroethane	5.072	63	48418	4997.70 ug/L	100
5] cis-1,2-Dichloroethene	6.107	61	45379	4748.08 ug/L	100
6] Chloroform	6.688	83	48914	4753.11 ug/L	100
7] 1,1,1-Trichloroethane	6.943	97	45828	4524.33 ug/L	99
8] Carbon tetrachloride	7.211	117	41785	4354.93 ug/L	99
9] Benzene	7.552	78	120248	4302.40 ug/L	99
10] 1,2-Dichloroethane	7.588	62	41226	4576.87 ug/L	100
11] Trichloroethene	8.624	130	35011	4557.82 ug/L	100
13] Toluene	10.645	91	149482	3943.06 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	33399	4262.44 ug/L	100
15] Tetrachloroethene	11.495	166	44549	4170.87 ug/L	99
16] Chlorobenzene	12.837	112	105529	3900.17 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.980	131	38642	4208.26 ug/L	100
18] Ethylbenzene	13.035	91	189945	4175.16 ug/L	100
19] m&p-Xylene	13.234	91	282322	8040.43 ug/L	100
20] o-Xylene	13.846	91	140254	3771.55 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.947	83	61524	3841.60 ug/L	100
22] 1,3,5-Trimethylbenzene	15.414	105	164435	3908.02 ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	157437	3740.60 ug/L	100
24] Naphthalene	17.932	128	55182	798.91 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	100287	4944.14 ug/L	95
26) 1,1-Dichloroethene SCAN	3.099	61	24727	4885.25 ug/L #	71
27) trans-1,2-Dichloroethe...	4.321	61	25343	4300.79 ug/L	89
28) 1,1-Dichloroethane SCAN	5.071	63	35861	4783.74 ug/L	97
29) cis-1,2-Dichloroethene...	6.106	61	29362	4528.87 ug/L #	36
30) Chloroform SCAN	6.687	83	35276	4432.86 ug/L	93
31) 1,1,1-Trichloroethane ...	6.942	97	26655	3762.73 ug/L	85
32) Carbon tetrachloride SCAN	7.222	117	25561	3662.03 ug/L	79
33) Benzene SCAN	7.550	78	80662	3818.35 ug/L	96
34) 1,2-Dichloroethane SCAN	7.599	62	31800	4414.02 ug/L	94
35) Trichloroethene SCAN	8.622	130	23153	4478.85 ug/L	89
36) Toluene-d8 SCAN	10.549	98	95015	5181.69 ug/L	98
37) Toluene SCAN	10.654	91	98700	4213.76 ug/L	91
38) 1,1,2-Trichloroethane ...	11.304	97	22939	5110.71 ug/L	93
39) Tetrachloroethene SCAN	11.493	166	21226	4129.62 ug/L	76
40) Chlorobenzene SCAN	12.827	112	71296	5017.65 ug/L	96
41) 1,1,1,2-Tetrachloroeth...	12.978	131	19723	3888.73 ug/L #	74
42) Ethylbenzene SCAN	13.042	91	129803	4767.47 ug/L	99
43) m&p-Xylene SCAN	13.233	91	177942	4708.41 ug/L	99
44) o-Xylene SCAN	13.844	91	96025	4464.18 ug/L	90
45) 1,1,2,2-Tetrachloroeth...	14.949	83	42018	4121.50 ug/L	93
46) 1,3,5-Trimethylbenzene...	15.408	105	97950	4592.67 ug/L	95
47) 1,2,4-Trimethylbenzene...	15.954	105	98788	4519.69 ug/L	95
48) Naphthalene SCAN	17.931	128	33628	1078.31 ug/L	87

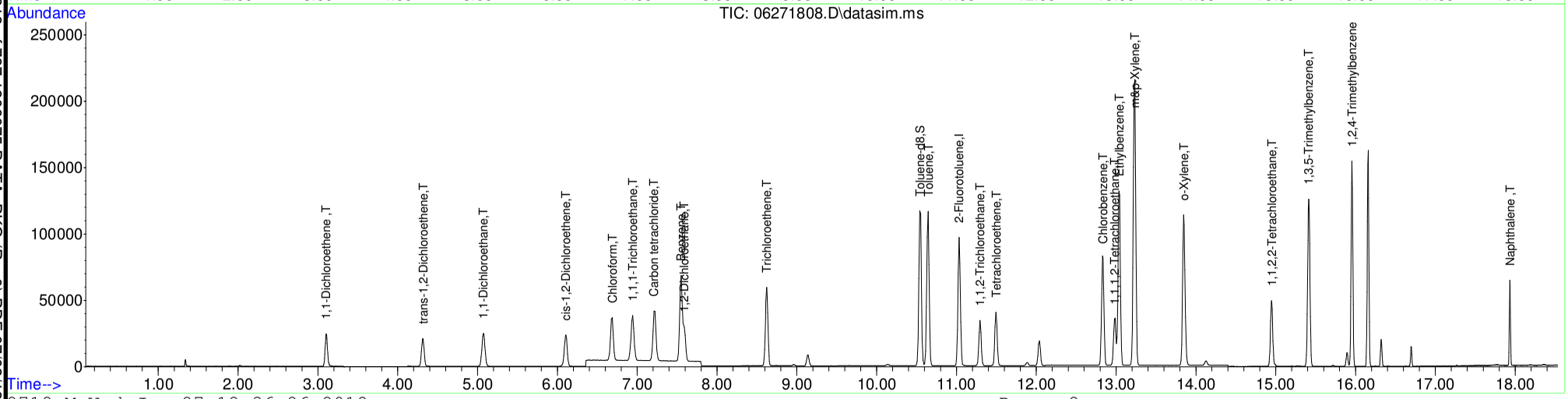
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271808.D
Acq On : 27 Jun 2018 12:17
InstName : AG5975C
Operator : TD
Sample : B18F097-BSD1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 12:36:25 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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B18F097-MRL1

Quantitation Report (Not Reviewed)

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Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271809.D
Acq On : 27 Jun 2018 12:41
InstName : AG5975C
Operator : TD
Sample : B18F097-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 15:17:48 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

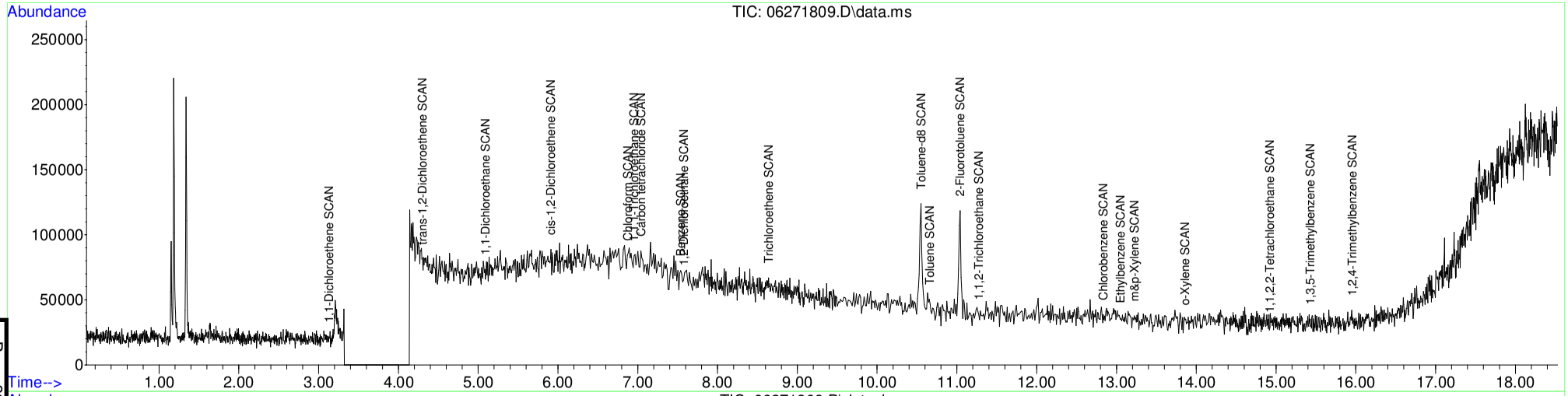
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	104008	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	89457	5295.18 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 105.90%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	739	169.55 ug/L	68
3] trans-1,2-Dichloroethene	4.309	61	261	56.12 ug/L	80
4] 1,1-Dichloroethane	5.072	63	381	65.82 ug/L	82
5] cis-1,2-Dichloroethene	6.101	61	298	52.18 ug/L	93
6] Chloroform	6.676	83	420	68.31 ug/L	76
7] 1,1,1-Trichloroethane	6.943	97	402	66.42 ug/L	74
8] Carbon tetrachloride	7.211	117	352	61.40 ug/L #	56
9] Benzene	7.551	78	1238	74.13 ug/L #	1
10] 1,2-Dichloroethane	7.588	62	339	62.99 ug/L #	1
11] Trichloroethene	8.618	130	260	56.65 ug/L #	74
13] Toluene	10.644	91	1975	87.19 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	292	62.37 ug/L	74
15] Tetrachloroethene	11.495	166	428	67.06 ug/L	87
16] Chlorobenzene	12.829	112	1019	63.03 ug/L	61
17] 1,1,1,2-Tetrachloroethane	12.987	131	354	64.52 ug/L #	48
18] Ethylbenzene	13.035	91	1847	67.95 ug/L	96
19] m&p-Xylene	13.234	91	2935	139.90 ug/L	95
20] o-Xylene	13.845	91	1392	62.65 ug/L	88
21] 1,1,2,2-Tetrachloroethane	14.947	83	591	61.76 ug/L	97
22] 1,3,5-Trimethylbenzene	15.414	105	1864	74.14 ug/L	90
23] 1,2,4-Trimethylbenzene	15.955	105	1606	63.86 ug/L	100
25) 2-Fluorotoluene SCAN	11.042	109	57528	4746.65 ug/L	93
26) 1,1-Dichloroethene SCAN	3.129	61	93	30.75 ug/L #	11
27) trans-1,2-Dichloroethe...	4.295	61	103	29.25 ug/L #	1
28) 1,1-Dichloroethane SCAN	5.084	63	145	32.37 ug/L #	43
29) cis-1,2-Dichloroethene...	5.914	61	252	65.05 ug/L #	30
30) Chloroform SCAN	6.869	83	512	107.68 ug/L #	1
31) 1,1,1-Trichloroethane ...	6.954	97	215	50.80 ug/L #	32
32) Carbon tetrachloride SCAN	7.039	117	299	71.69 ug/L #	13
33) Benzene SCAN	7.538	78	12437	985.34 ug/L #	73
34) 1,2-Dichloroethane SCAN	7.575	62	406	94.32 ug/L #	39
35) Trichloroethene SCAN	8.639	130	477	154.43 ug/L #	55
36) Toluene-d8 SCAN	10.549	98	51245	4677.28 ug/L	86
37) Toluene SCAN	10.654	91	3670	262.23 ug/L #	91
38) 1,1,2-Trichloroethane ...	11.273	97	830	309.49 ug/L #	10
40) Chlorobenzene SCAN	12.835	112	458	53.95 ug/L #	1
42) Ethylbenzene SCAN	13.042	91	978	60.12 ug/L #	50
43) m&p-Xylene SCAN	13.225	91	650	28.79 ug/L #	1
44) o-Xylene SCAN	13.860	91	612	47.62 ug/L #	79
45) 1,1,2,2-Tetrachloroeth...	14.923	83	123	20.19 ug/L #	90
46) 1,3,5-Trimethylbenzene...	15.428	105	622	48.81 ug/L #	38
47) 1,2,4-Trimethylbenzene...	15.949	105	923	70.68 ug/L #	53

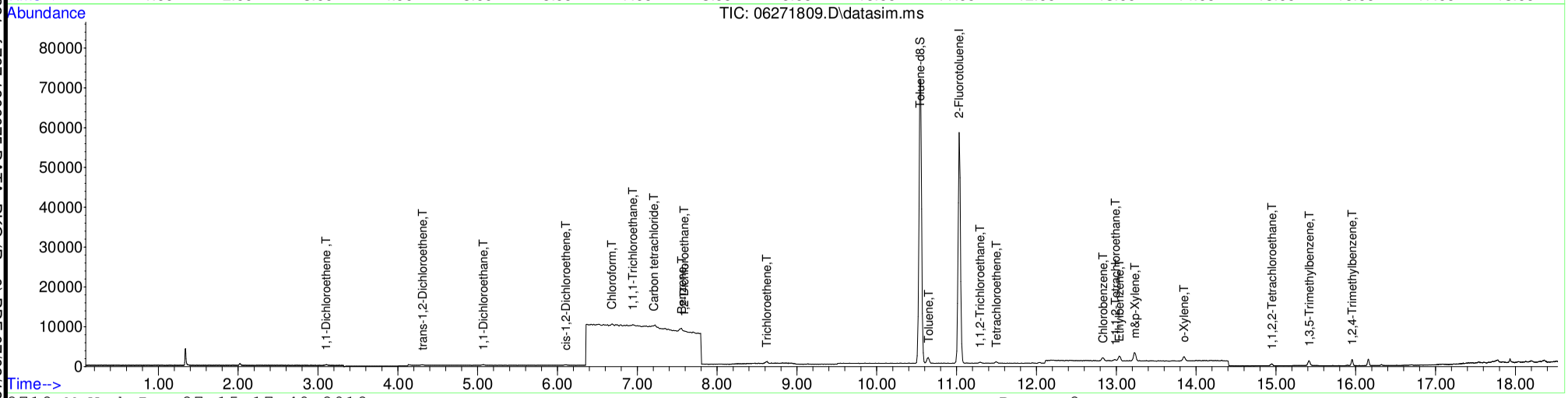
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271809.D
Acq On : 27 Jun 2018 12:41
InstName : AG5975C
Operator : TD
Sample : B18F097-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 15:17:48 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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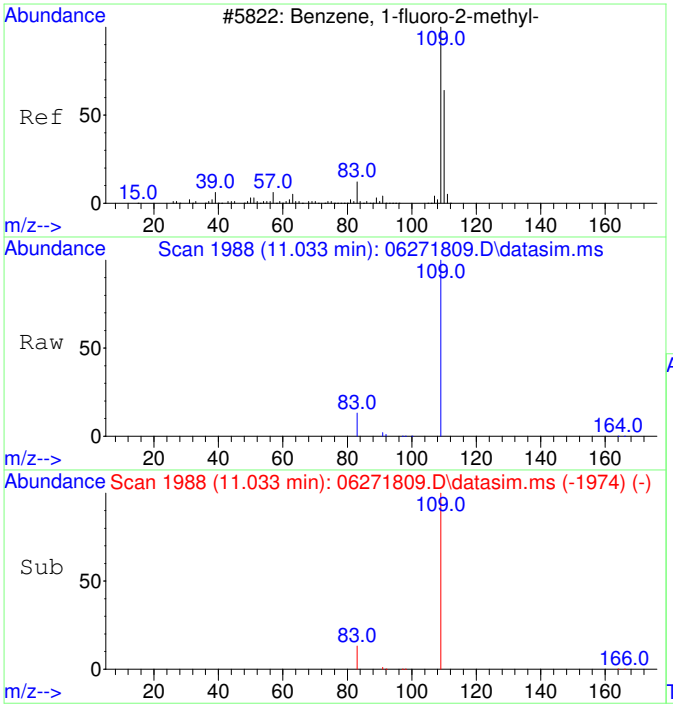
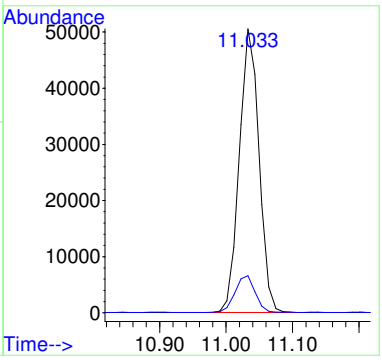
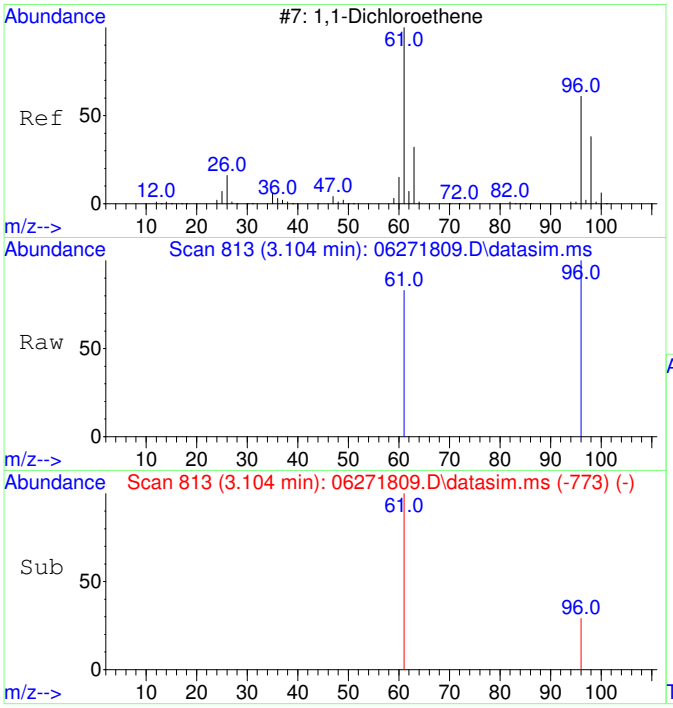


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:109 Resp: 104008

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

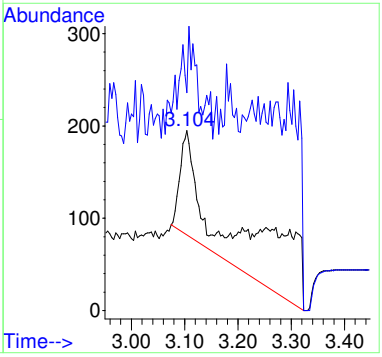




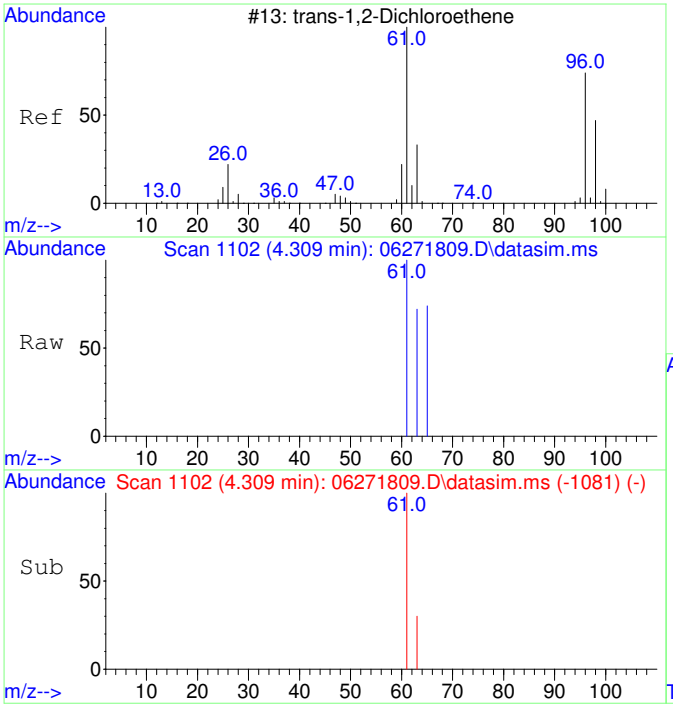
#2
1,1-Dichloroethene
Concen: 169.55 ug/L
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 739

Ion	Ratio	Lower	Upper
61	100		
96	34.9	28.7	88.7



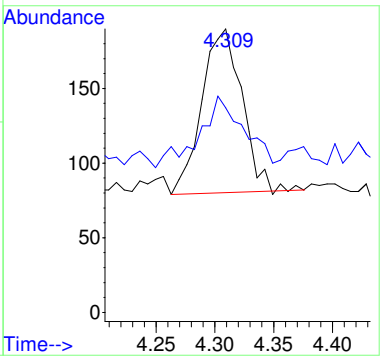
Before MI:
IMPROPER
BASELINE

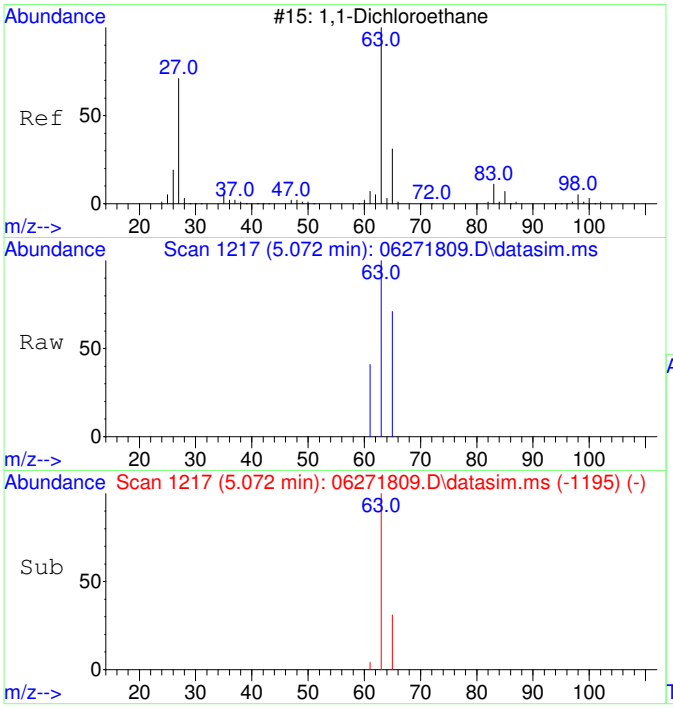


#3
trans-1,2-Dichloroethene
Concen: 56.12 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.014 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 261

Ion	Ratio	Lower	Upper
61	100		
63	42.9	2.0	62.0

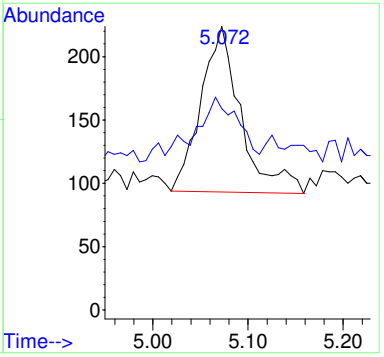


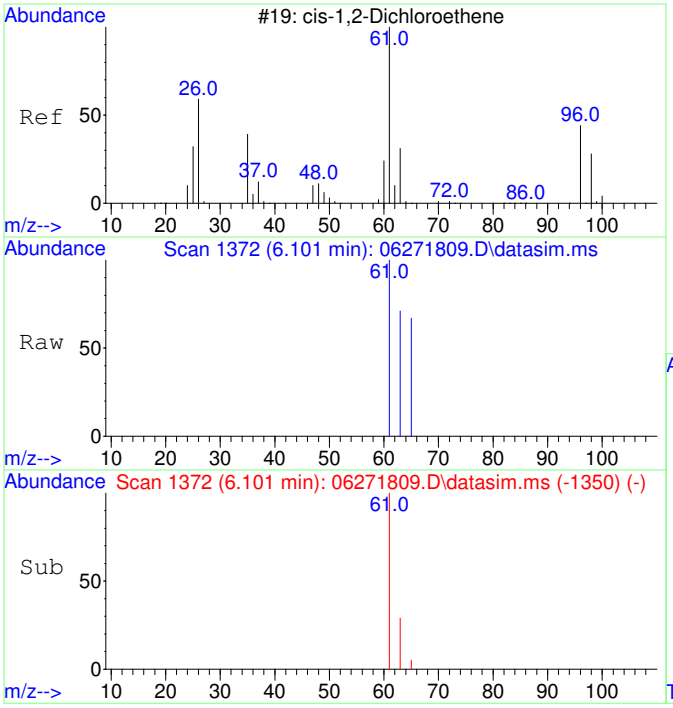


#4
1,1-Dichloroethane
Concen: 65.82 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.007 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 63 Resp: 381

Ion	Ratio	Lower	Upper
63	100		
65	41.5	1.5	61.5

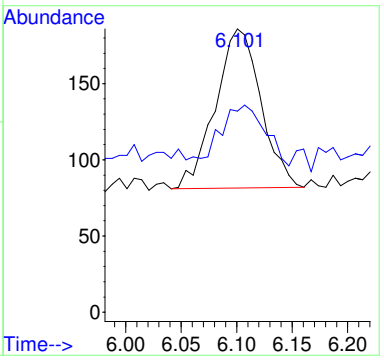


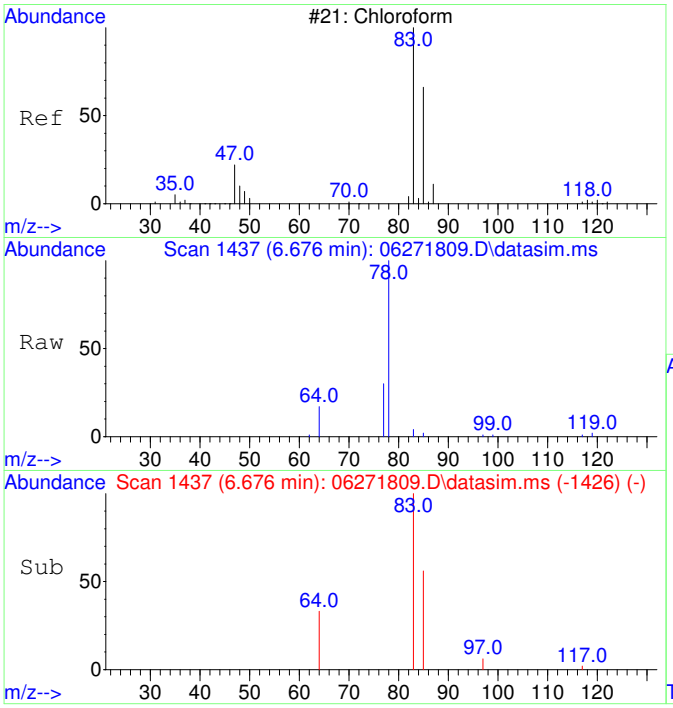


#5
cis-1,2-Dichloroethene
Concen: 52.18 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 298

Ion	Ratio	Lower	Upper
61	100		
63	36.2	2.2	62.2

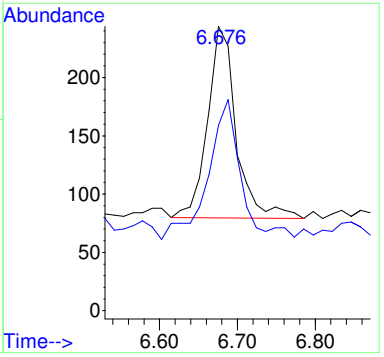


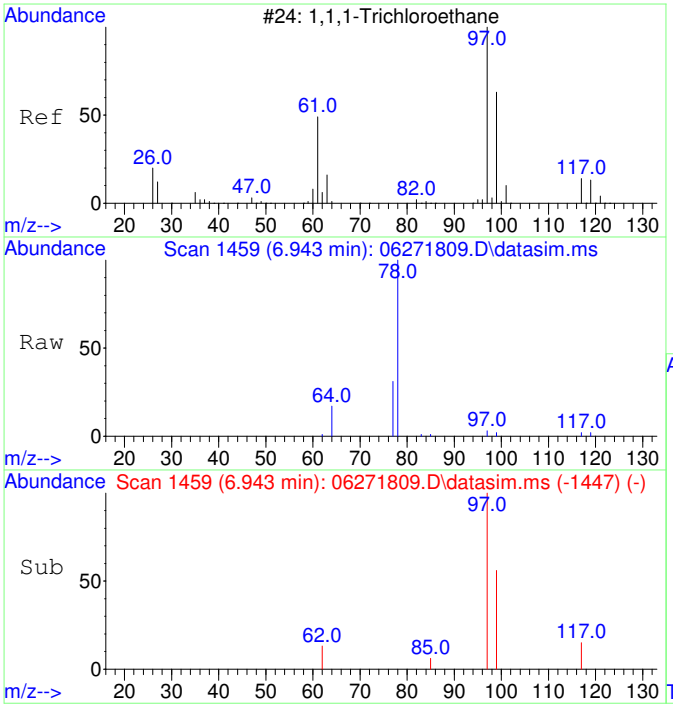


#6
Chloroform
Concen: 68.31 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 420

Ion	Ratio	Lower	Upper
83	100		
85	83.6	34.8	94.8

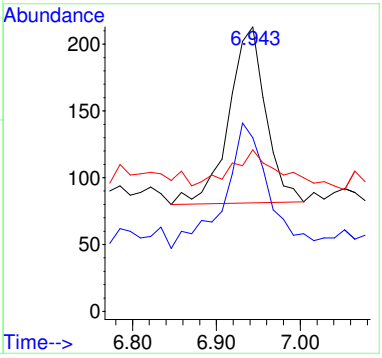


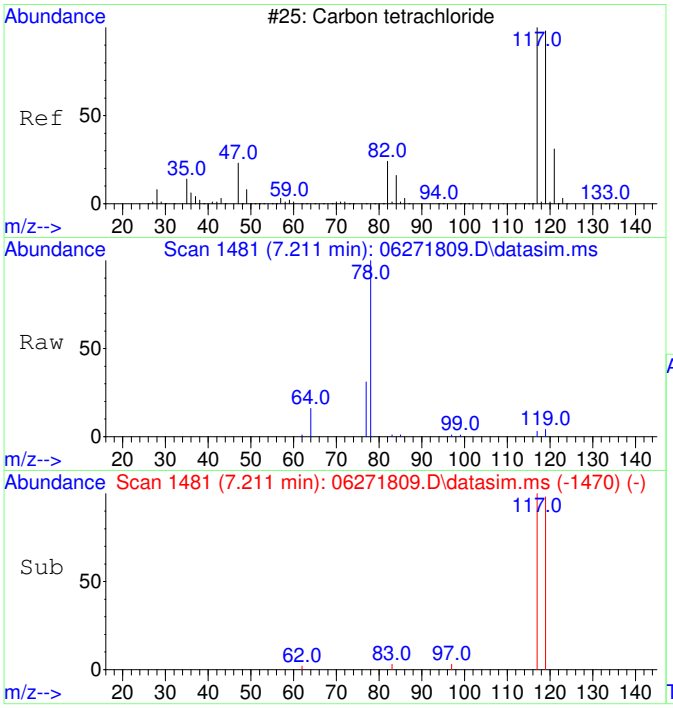


#7
1,1,1-Trichloroethane
Concen: 66.42 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
99	84.3	34.6	94.6
117	24.4	0.0	42.9

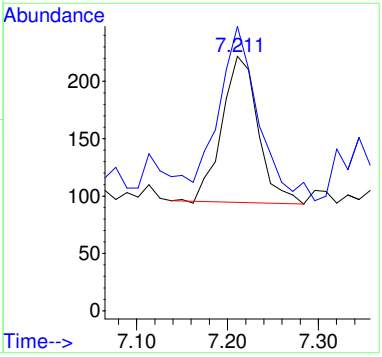


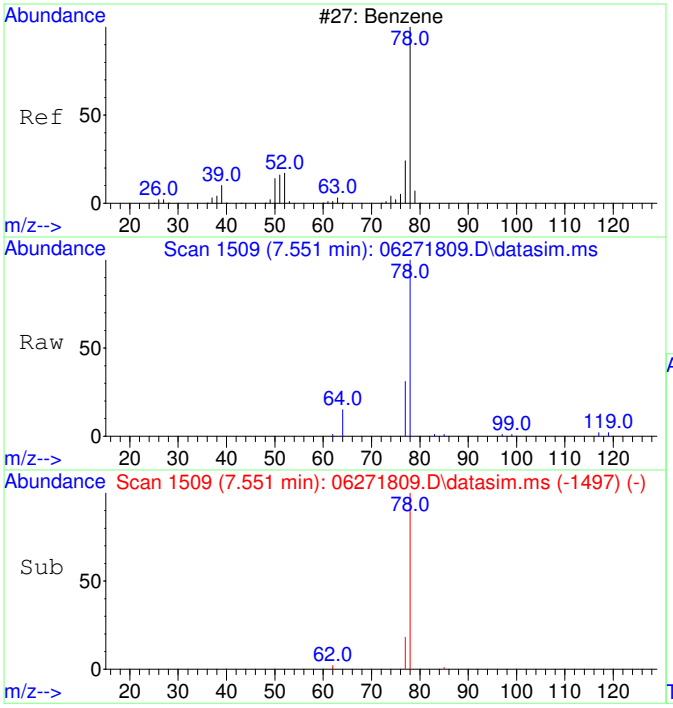


#8
Carbon tetrachloride
Concen: 61.40 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:117 Resp: 352

Ion	Ratio	Lower	Upper
117	100		
119	138.9	65.9	125.9#

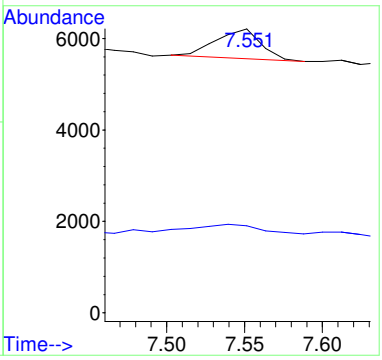


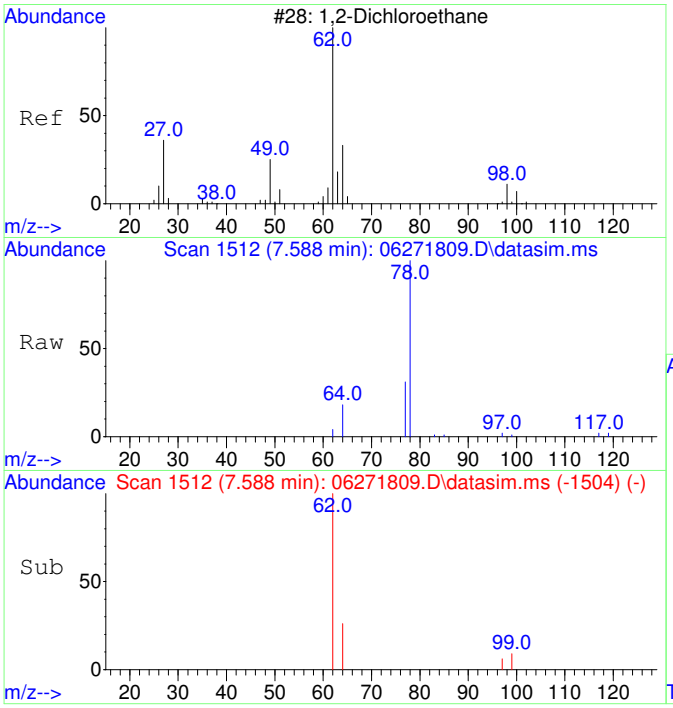


#9
Benzene
Concen: 74.13 ug/L
RT: 7.551 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 78 Resp: 1238

Ion	Ratio	Lower	Upper
78	100		
77	72.4	0.0	53.0#

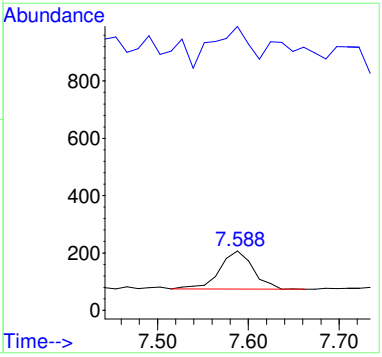


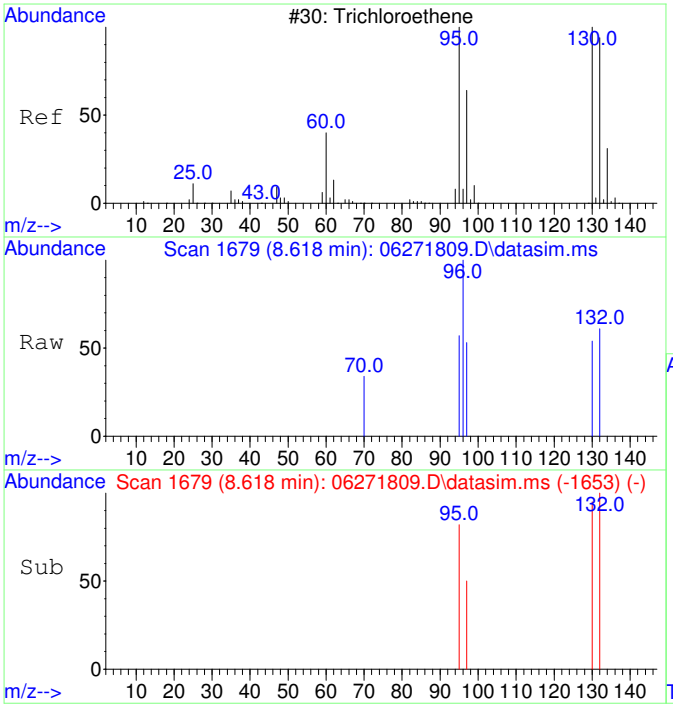


#10
1,2-Dichloroethane
Concen: 62.99 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 62 Resp: 339

Ion	Ratio	Lower	Upper
62	100		
64	117.4	2.3	62.3#

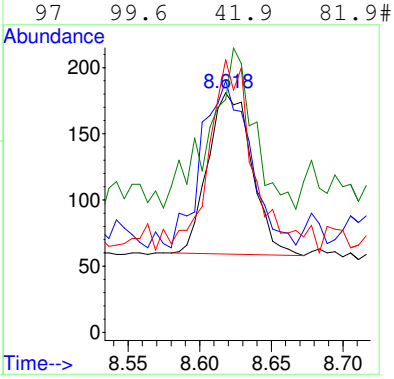


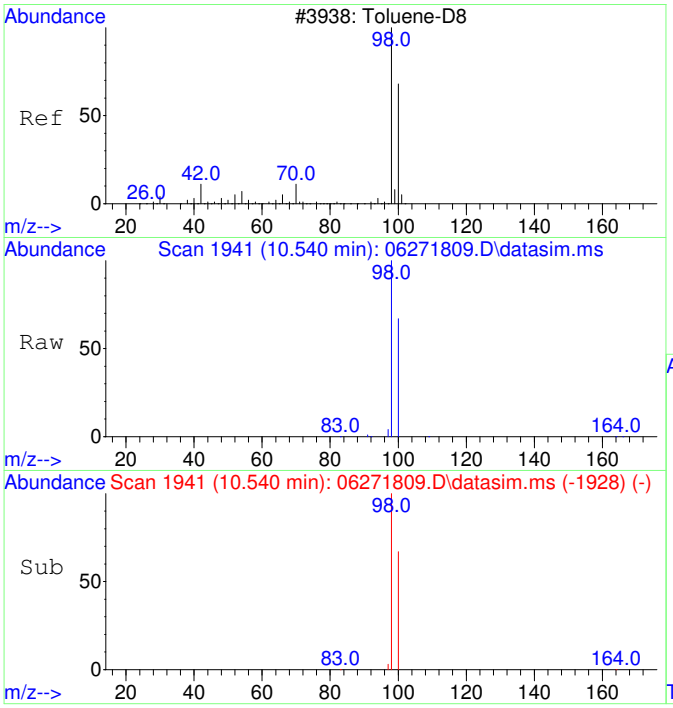


#11
Trichloroethene
Concen: 56.65 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:130 Resp: 260

Ion	Ratio	Lower	Upper
130	100		
95	116.2	66.0	126.0
132	114.2	78.8	118.8
97	99.6	41.9	81.9#

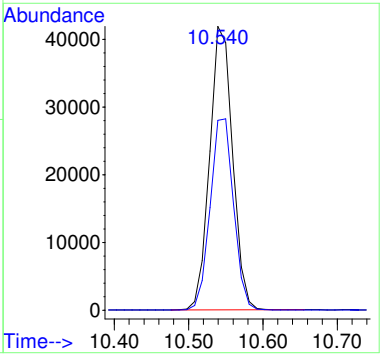


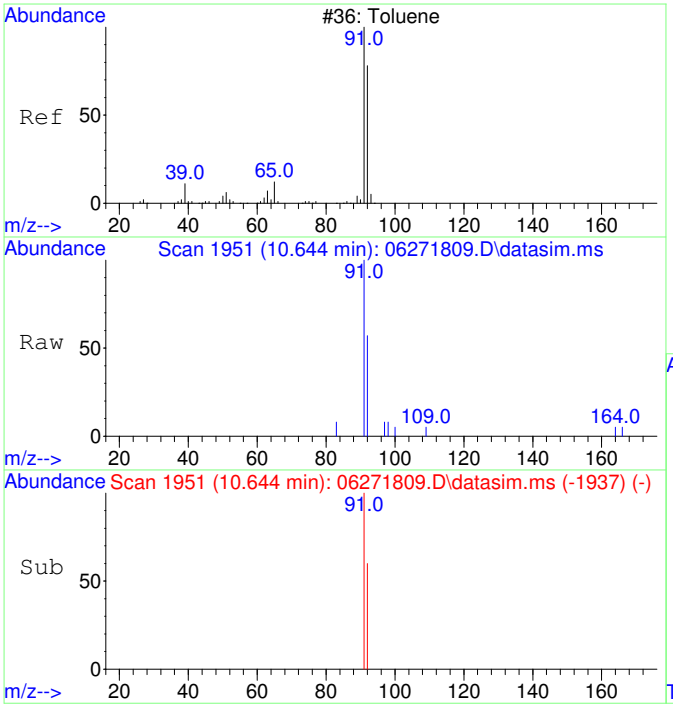


#12
Toluene-d8
Concen: 5295.18 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 98 Resp: 89457

Ion	Ratio	Lower	Upper
98	100		
100	68.8	38.7	98.7

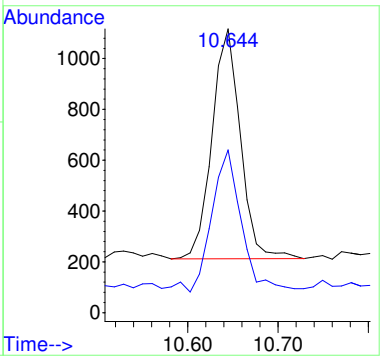


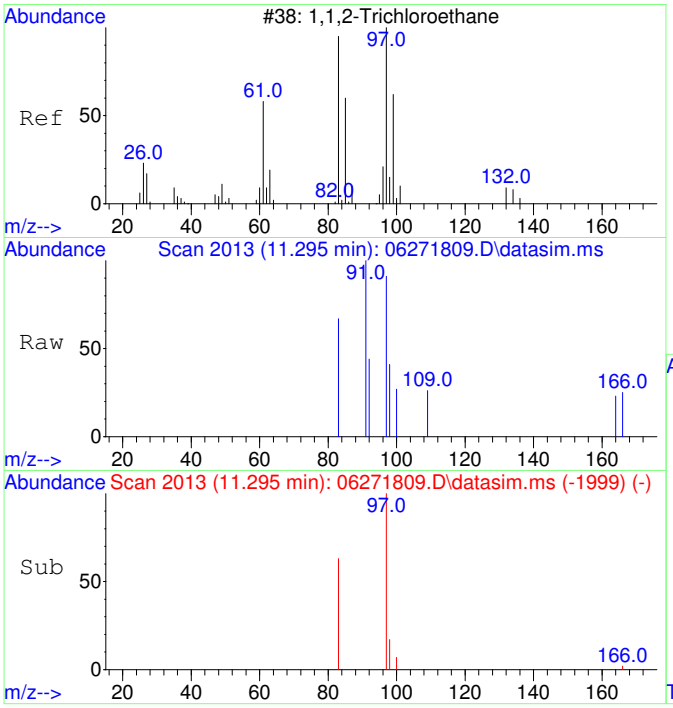


#13
Toluene
Concen: 87.19 ug/L
RT: 10.644 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1975

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

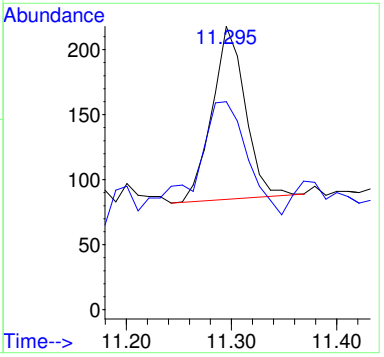


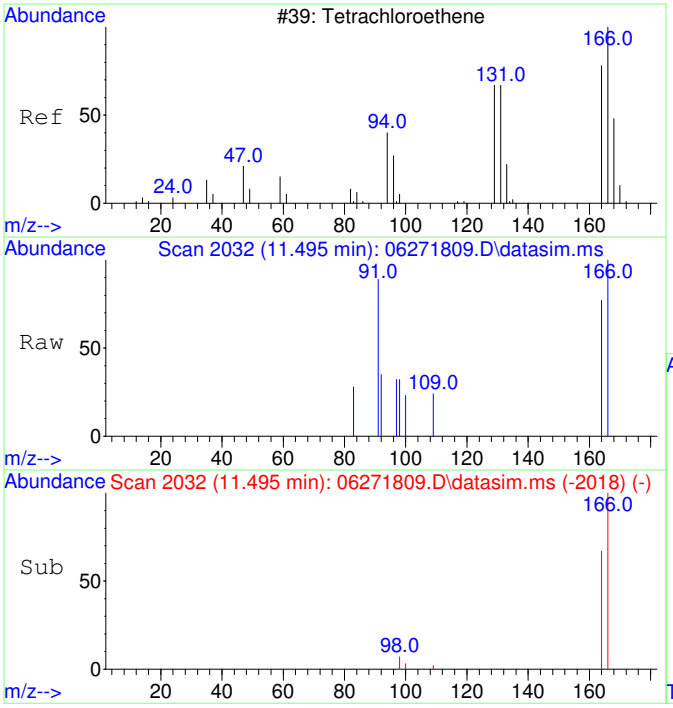


#14
1,1,2-Trichloroethane
Concen: 62.37 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 292

Ion	Ratio	Lower	Upper
97	100		
83	106.5	53.4	113.4

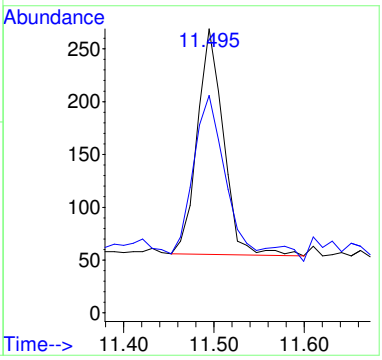


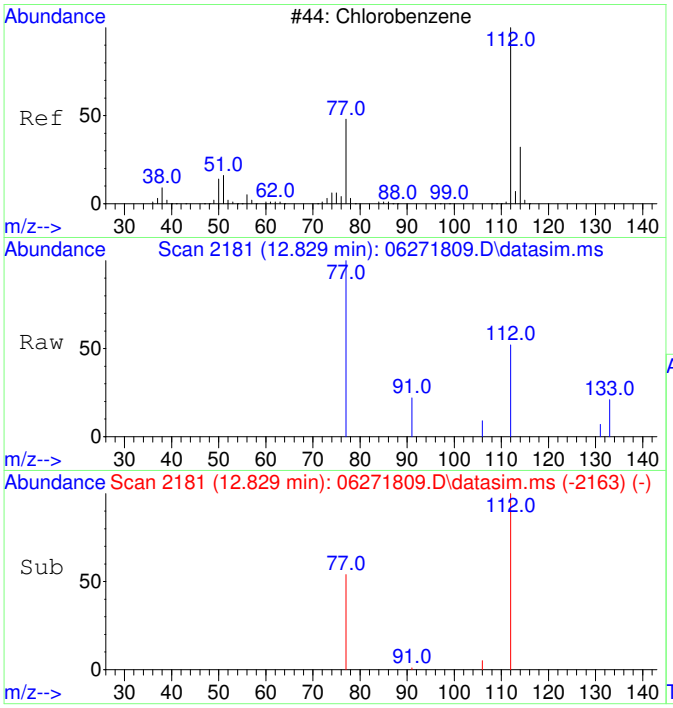


#15
Tetrachloroethene
Concen: 67.06 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:166 Resp: 428

Ion	Ratio	Lower	Upper
166	100		
164	89.3	47.8	107.8

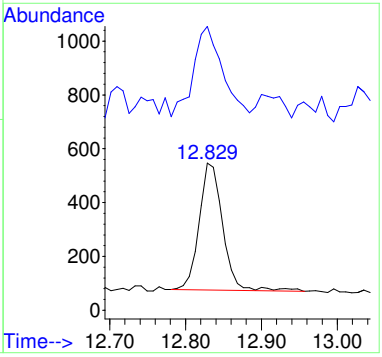


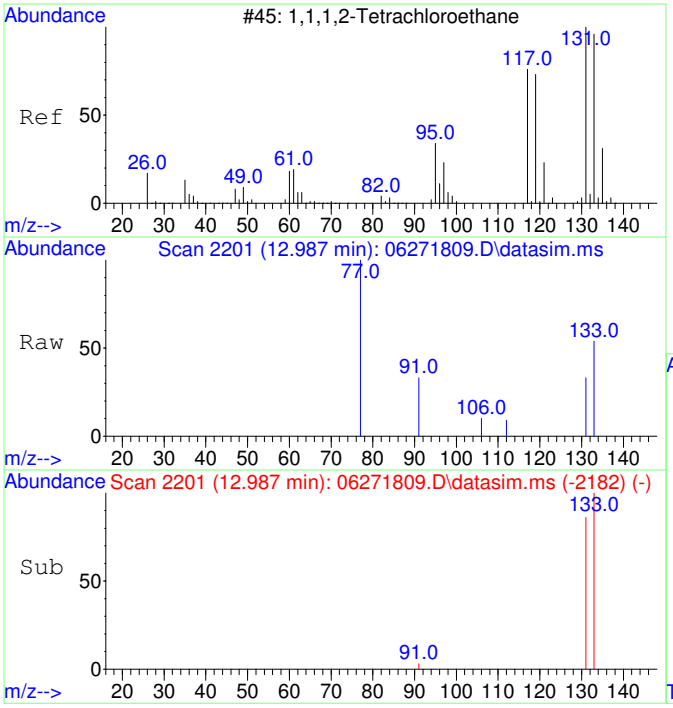


#16
Chlorobenzene
Concen: 63.03 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:112 Resp: 1019

Ion	Ratio	Lower	Upper
112	100		
77	87.4	28.1	88.1

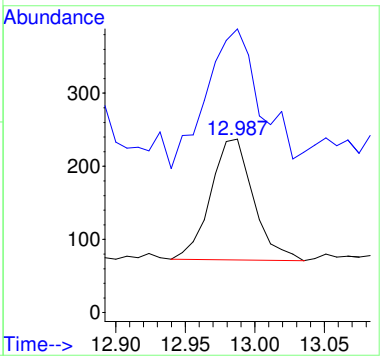


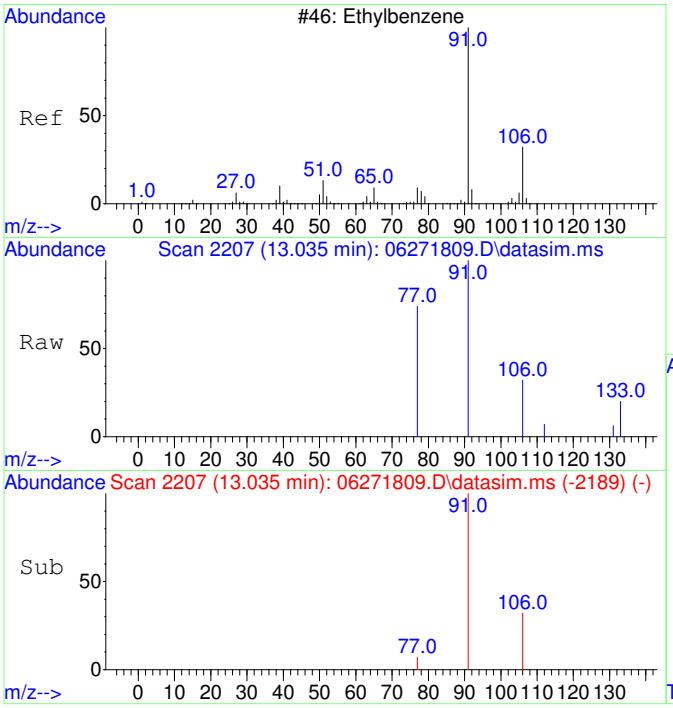


#17
1,1,1,2-Tetrachloroethane
Concen: 64.52 ug/L
RT: 12.987 min Scan# 2201
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:131 Resp: 354

Ion	Ratio	Lower	Upper
131	100		
133	147.5	66.2	126.2#

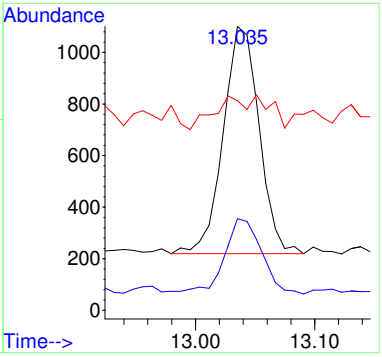


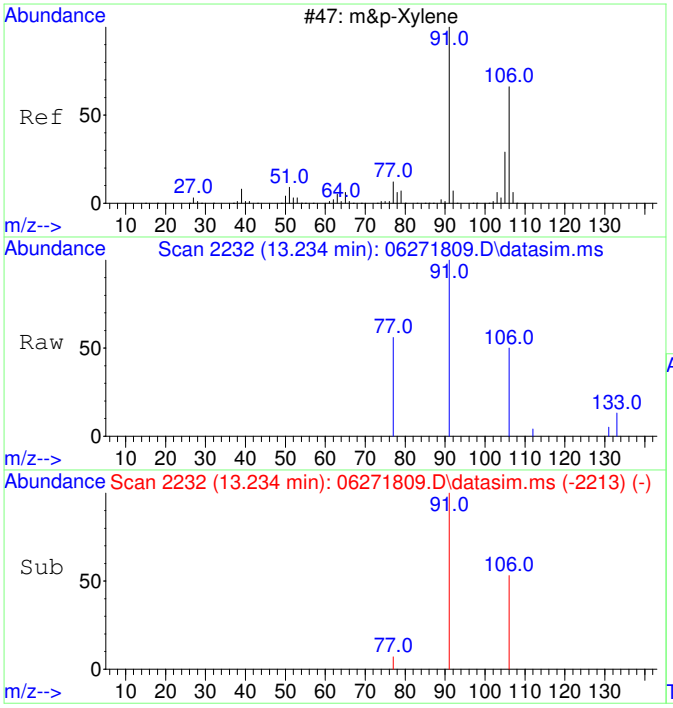


#18
Ethylbenzene
Concen: 67.95 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1847

Ion	Ratio	Lower	Upper
91	100		
106	34.2	2.8	62.8
77	12.9	0.0	38.6

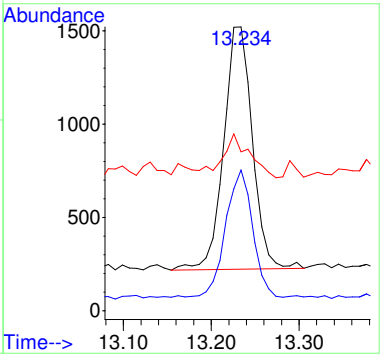


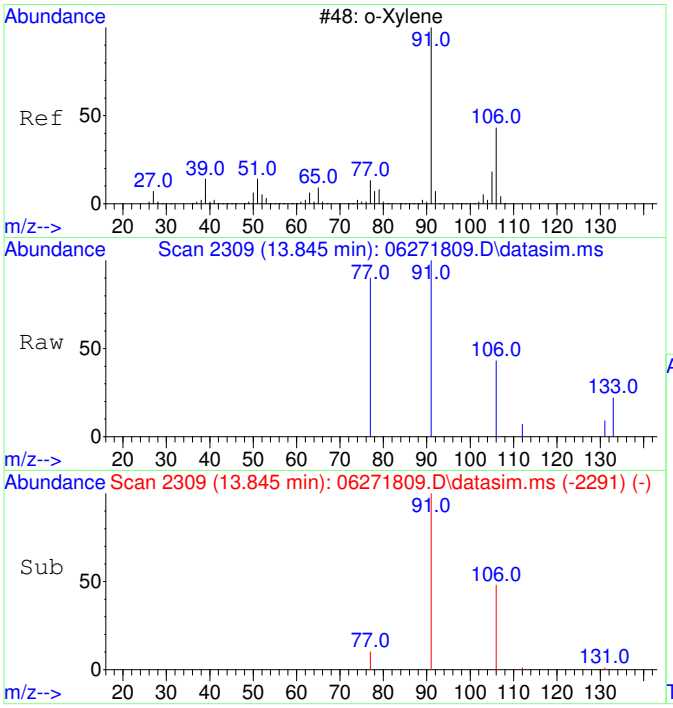


#19
m&p-Xylene
Concen: 139.90 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 2935

Ion	Ratio	Lower	Upper
91	100		
106	49.1	21.2	81.2
77	17.1	0.0	42.9

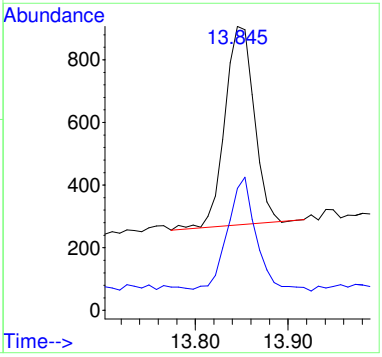


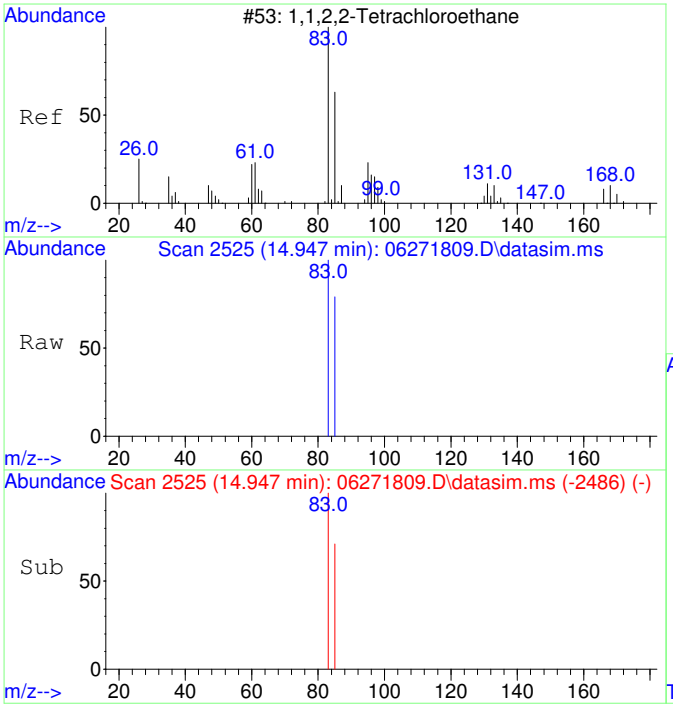


#20
o-Xylene
Concen: 62.65 ug/L
RT: 13.845 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1392

Ion	Ratio	Lower	Upper
91	100		
106	56.2	18.3	78.3

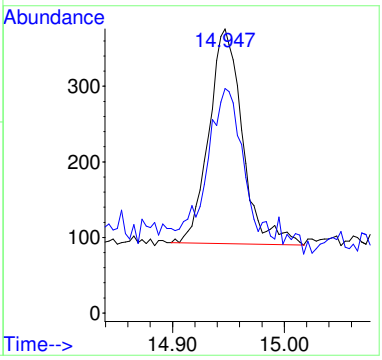


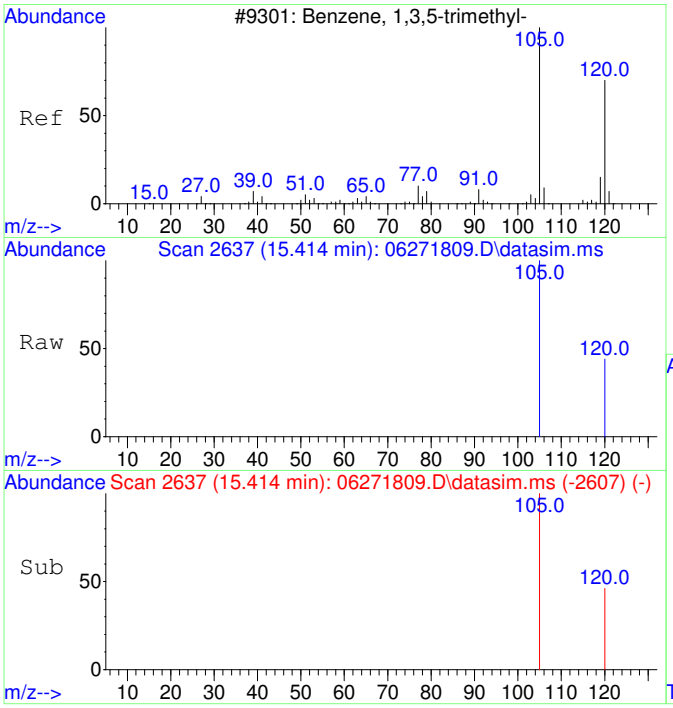


#21
1,1,2,2-Tetrachloroethane
Concen: 61.76 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 591

Ion	Ratio	Lower	Upper
83	100		
85	61.8	34.4	94.4

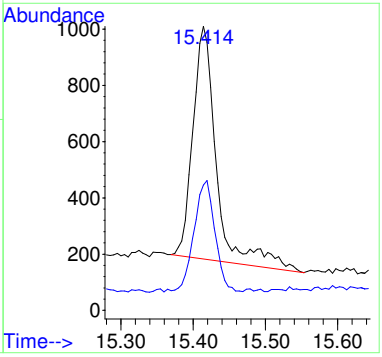


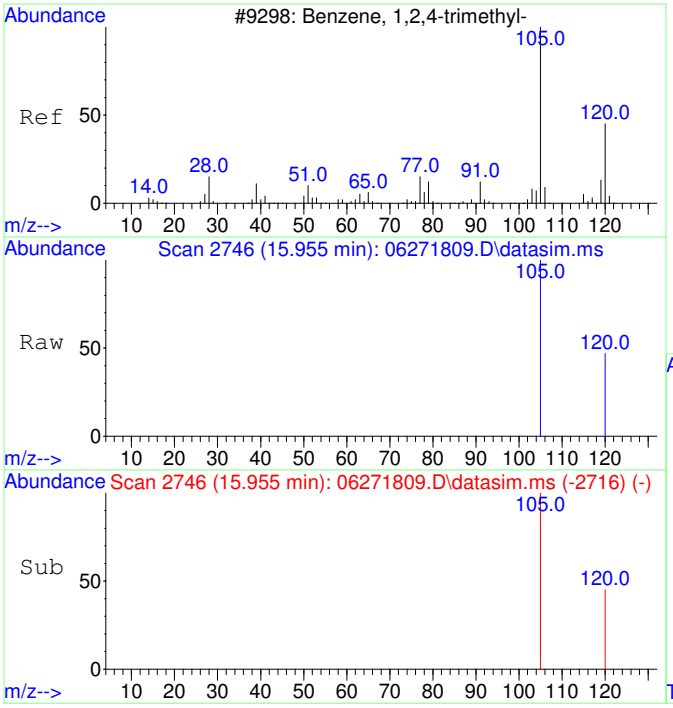


#22
1,3,5-Trimethylbenzene
Concen: 74.14 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 1864

Ion	Ratio	Lower	Upper
105	100		
120	42.5	19.1	79.1

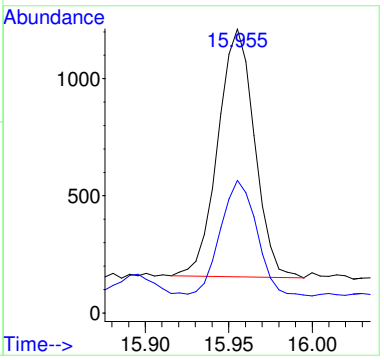


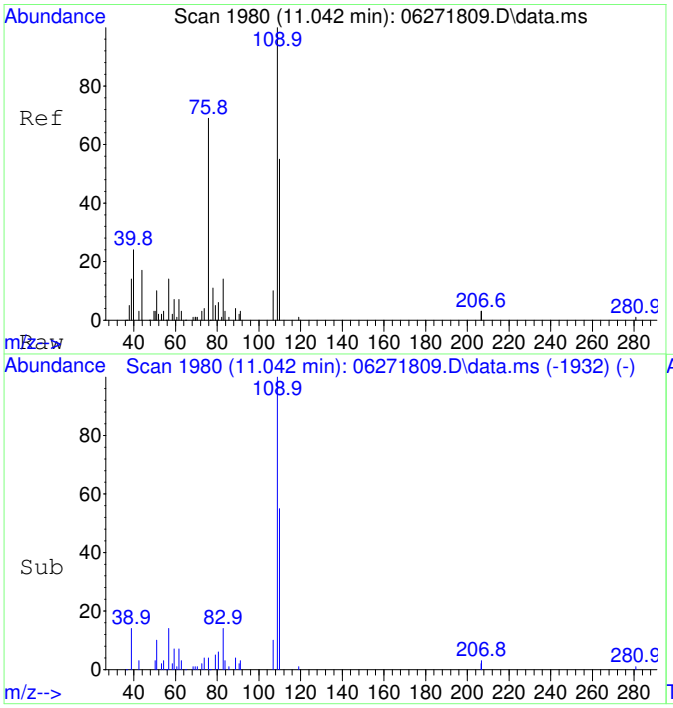


#23
1,2,4-Trimethylbenzene
Concen: 63.86 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 1606

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

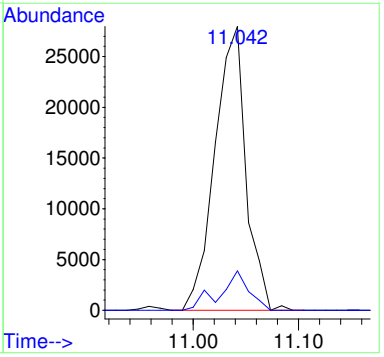


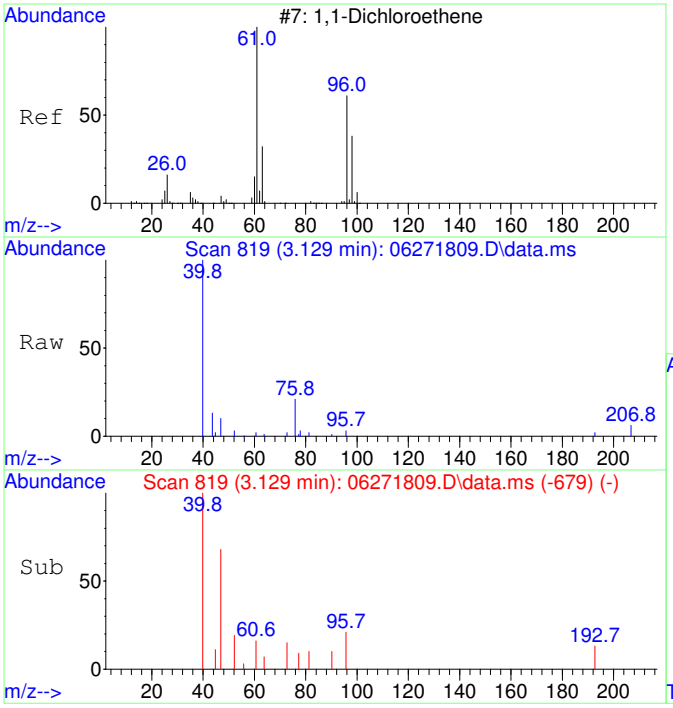


#25
2-Fluorotoluene SCAN
Concen: 4746.65 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:109 Resp: 57528

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	45.7

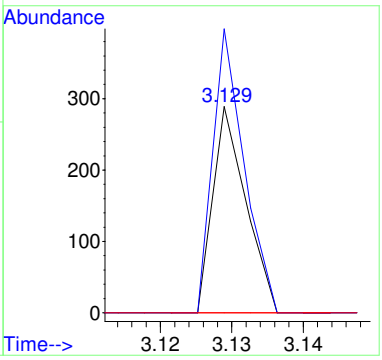


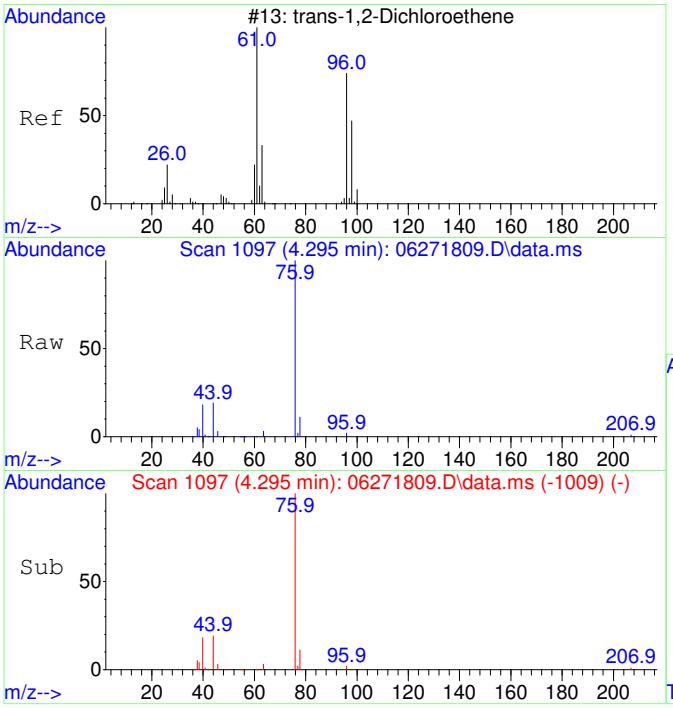


#26
1,1-Dichloroethene SCAN
Concen: 30.75 ug/L
RT: 3.129 min Scan# 819
Delta R.T. 0.018 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 93

Ion	Ratio	Lower	Upper
61	100		
96	130.1	23.8	83.8#
98	0.0	8.8	68.8#

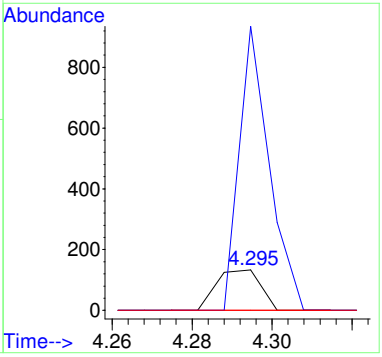


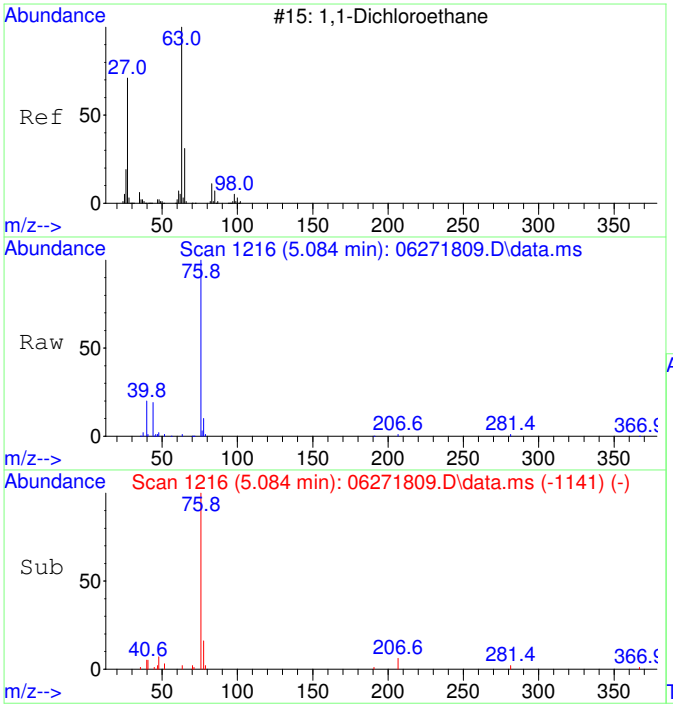


#27
trans-1,2-Dichloroethene SCAN
Concen: 29.25 ug/L
RT: 4.295 min Scan# 1097
Delta R.T. -0.040 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 103

Ion	Ratio	Lower	Upper
61	100		
96	473.8	37.9	97.9#
98	0.0	12.7	72.7#

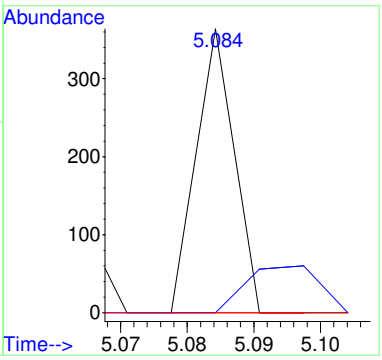


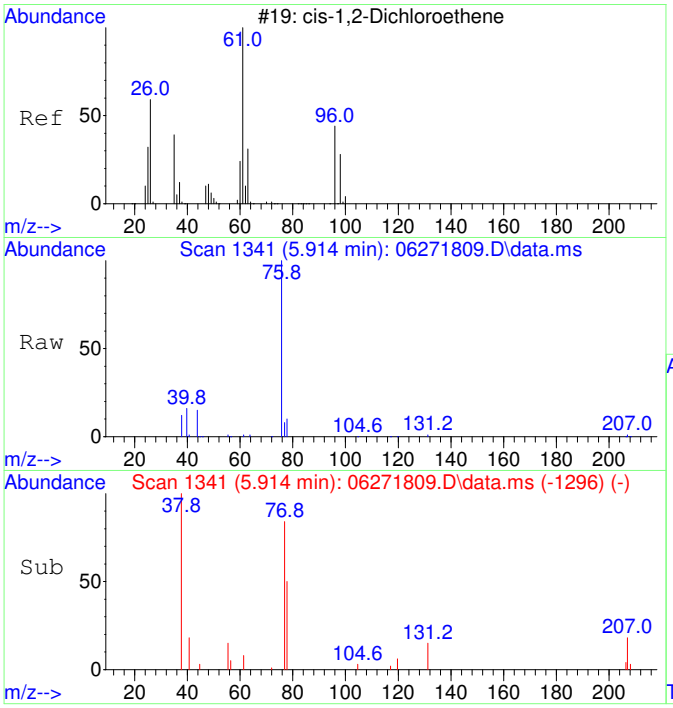


#28
1,1-Dichloroethane SCAN
Concen: 32.37 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 63 Resp: 145

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

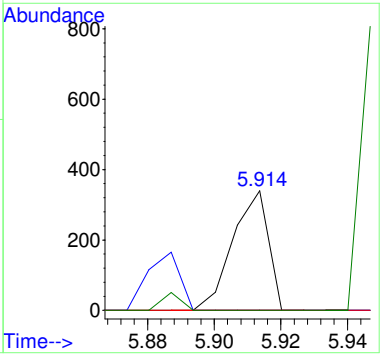


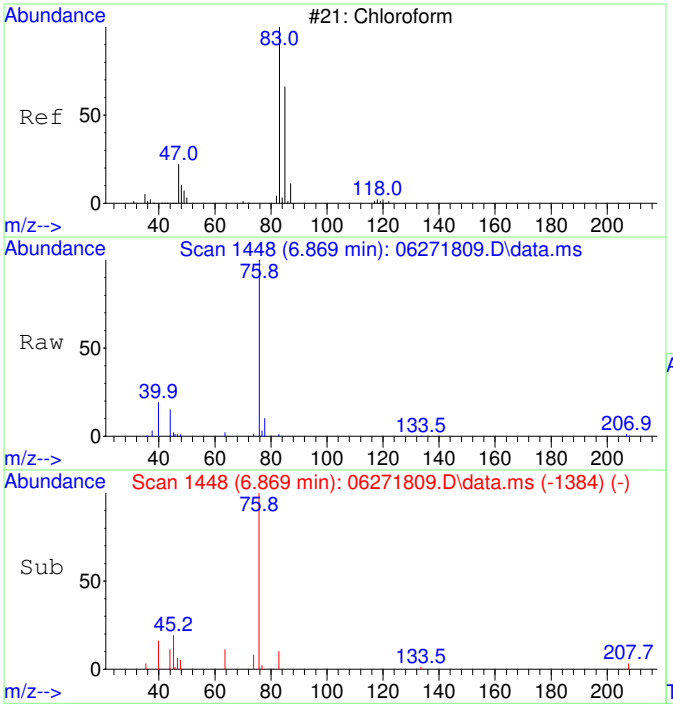


#29
cis-1,2-Dichloroethene SCAN
Concen: 65.05 ug/L
RT: 5.914 min Scan# 1341
Delta R.T. -0.199 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 252

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#

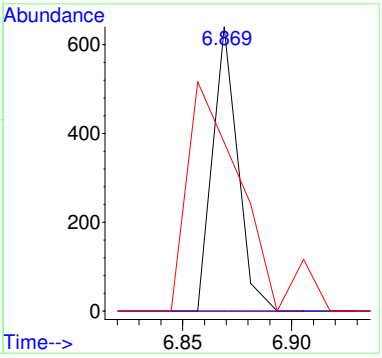


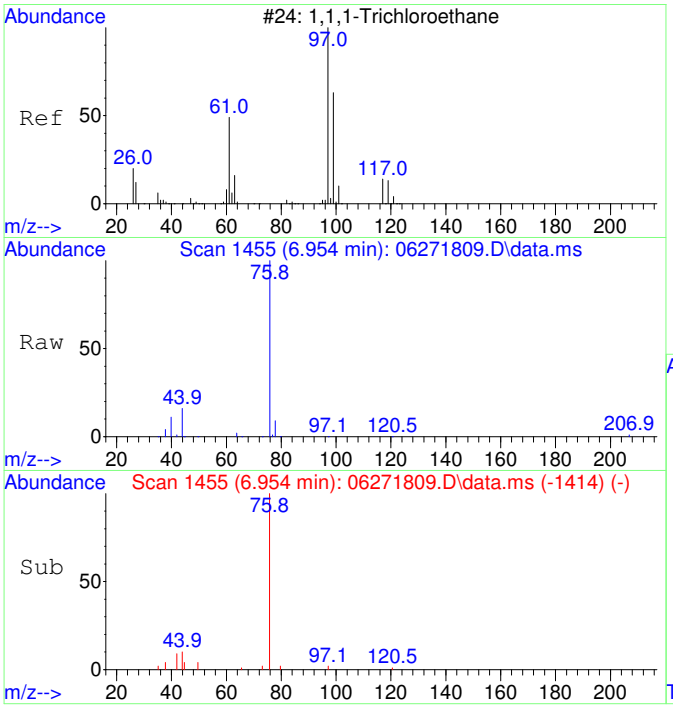


#30
Chloroform SCAN
Concen: 107.68 ug/L
RT: 6.869 min Scan# 1448
Delta R.T. 0.170 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 512

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	178.5	0.0	57.9#

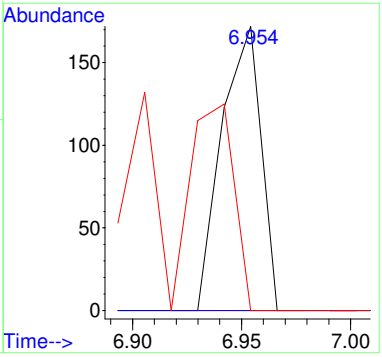


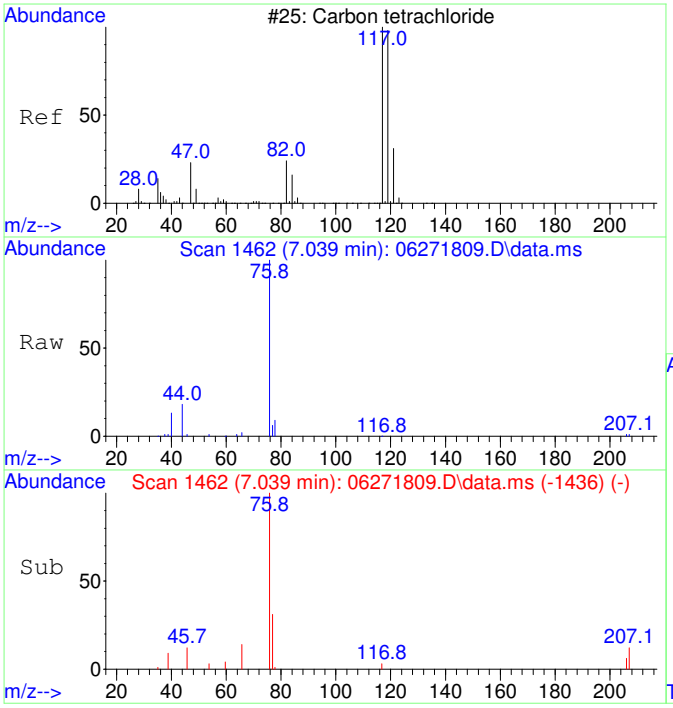


#31
1,1,1-Trichloroethane SCAN
Concen: 50.80 ug/L
RT: 6.954 min Scan# 1455
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 215

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	81.4	15.1	75.1#

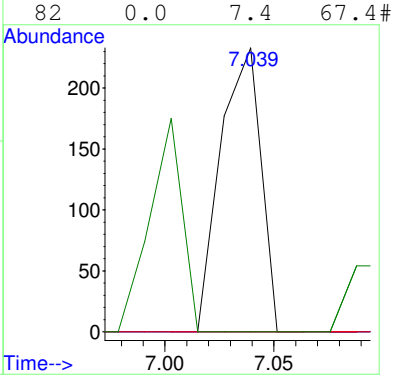


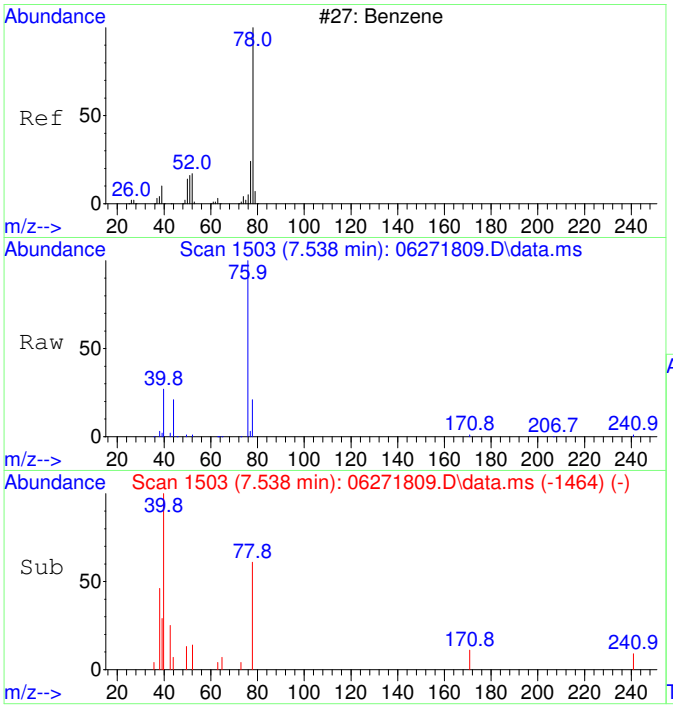


#32
Carbon tetrachloride SCAN
Concen: 71.69 ug/L
RT: 7.039 min Scan# 1462
Delta R.T. -0.183 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:117 Resp: 299

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#

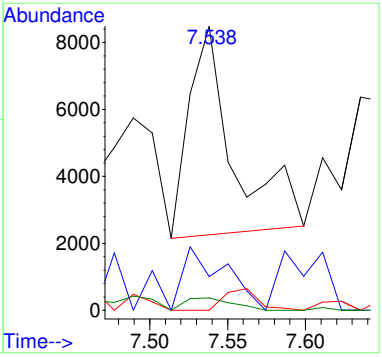


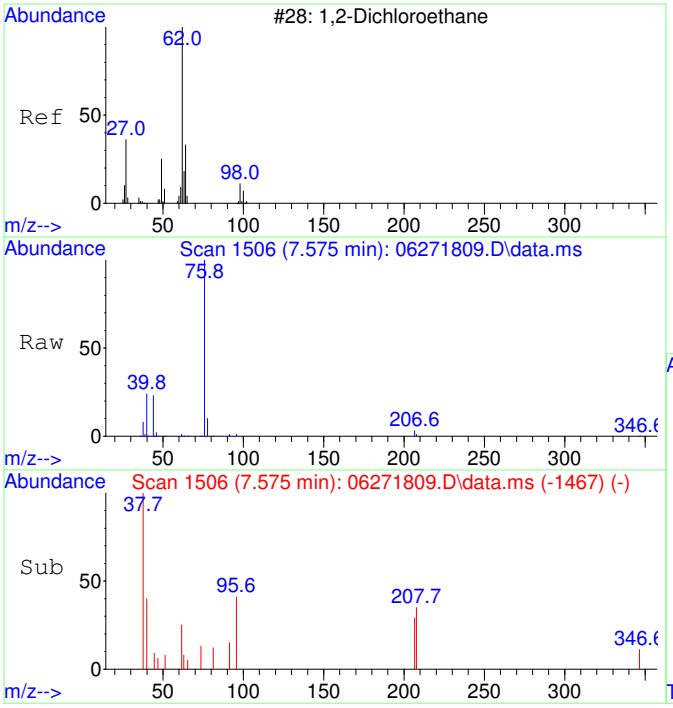


#33
Benzene SCAN
Concen: 985.34 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.025 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 78 Resp: 12437

Ion	Ratio	Lower	Upper
78	100		
77	28.7	3.0	63.0
51	0.0	0.0	56.4
52	6.3	0.0	48.0

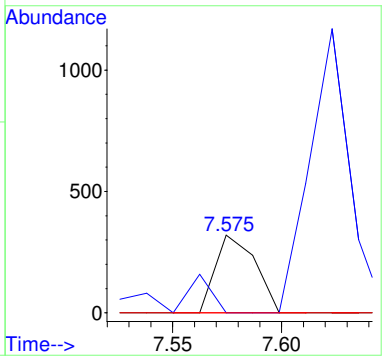


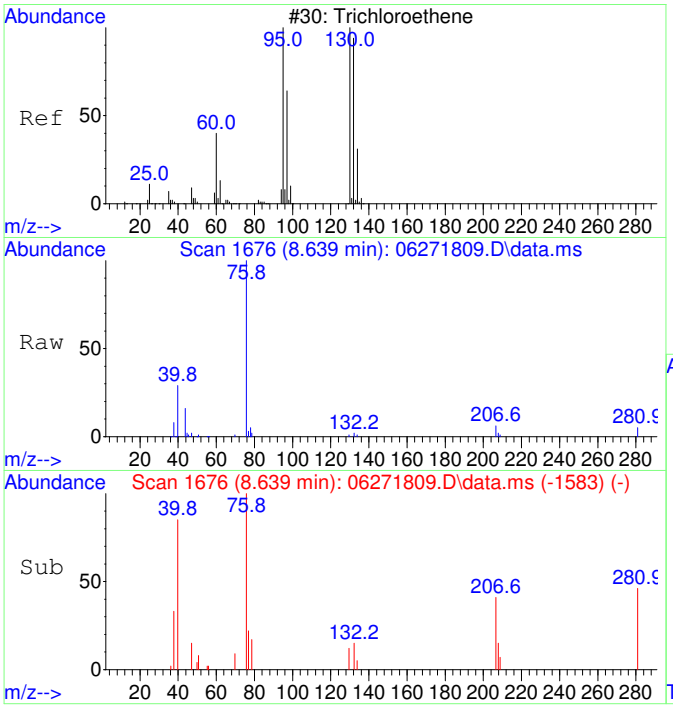


#34
1,2-Dichloroethane SCAN
Concen: 94.32 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. -0.025 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 62 Resp: 406

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

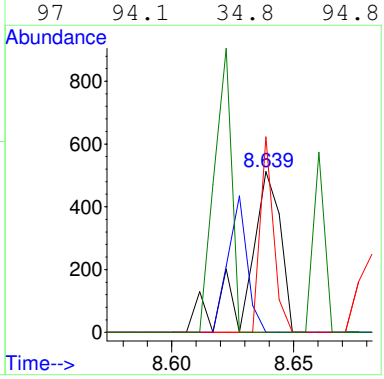


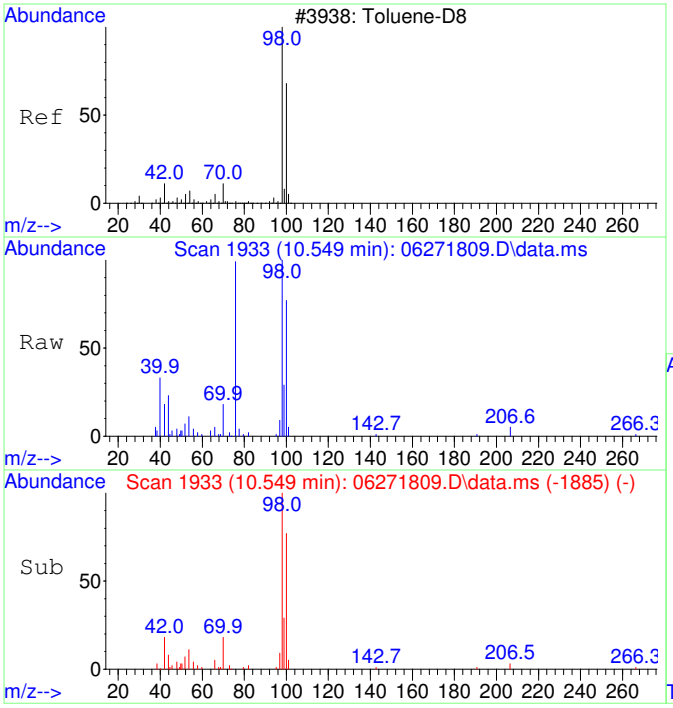


#35
Trichloroethene SCAN
Concen: 154.43 ug/L
RT: 8.639 min Scan# 1676
Delta R.T. 0.005 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:130 Resp: 477

Ion	Ratio	Lower	Upper
130	100		
95	50.1	70.5	130.5#
132	49.7	63.8	123.8#
97	94.1	34.8	94.8

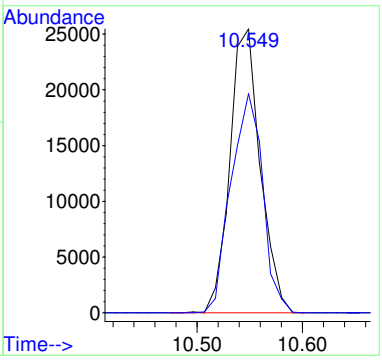


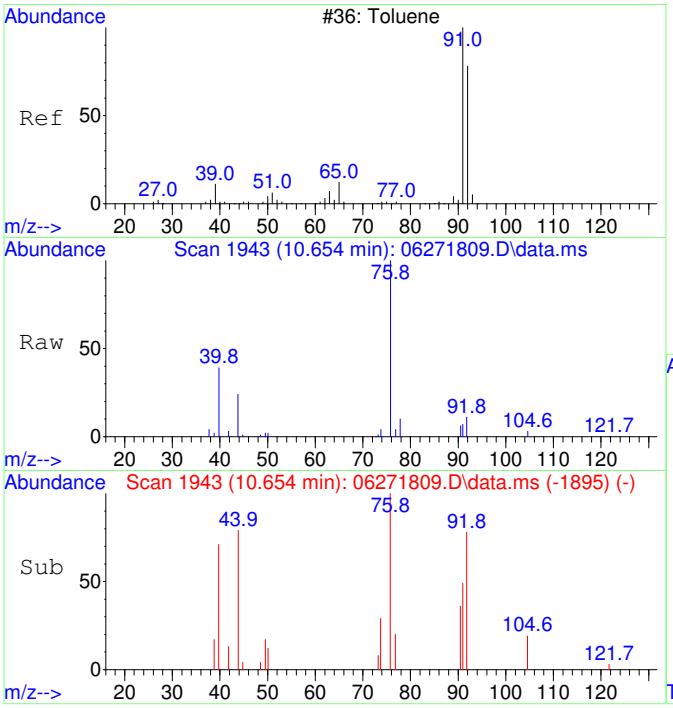


#36
Toluene-d8 SCAN
Concen: 4677.28 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 98 Resp: 51245

Ion	Ratio	Lower	Upper
98	100		
100	80.7	39.5	99.5

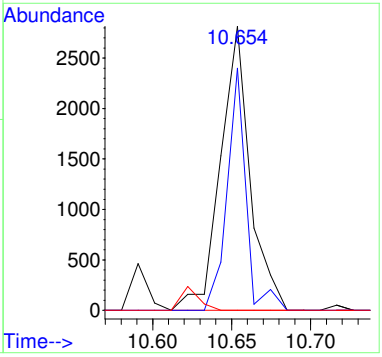


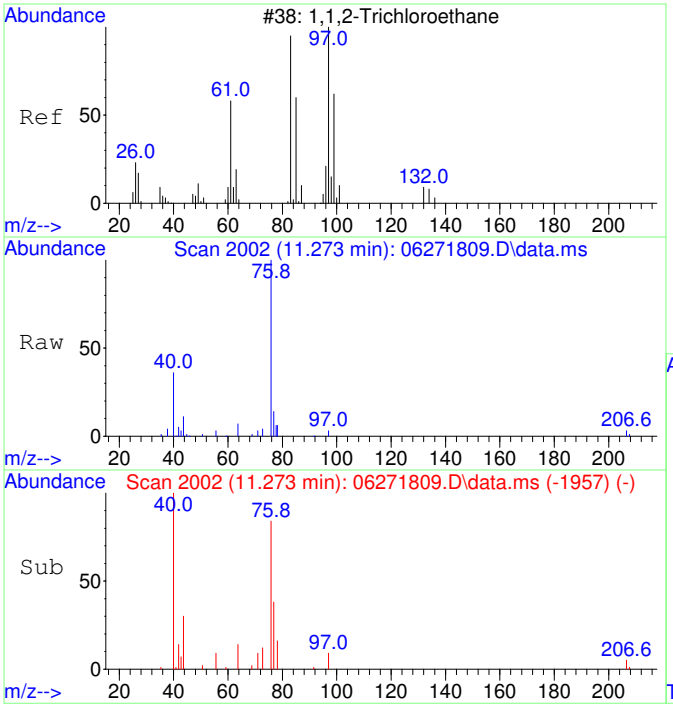


#37
Toluene SCAN
Concen: 262.23 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 3670

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.6	86.6
65	0.0	0.0	42.3

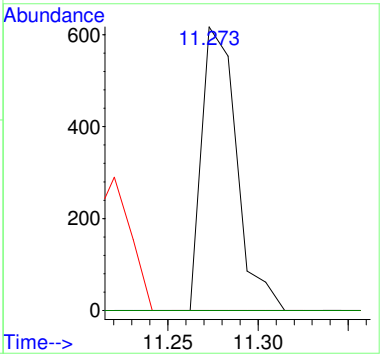


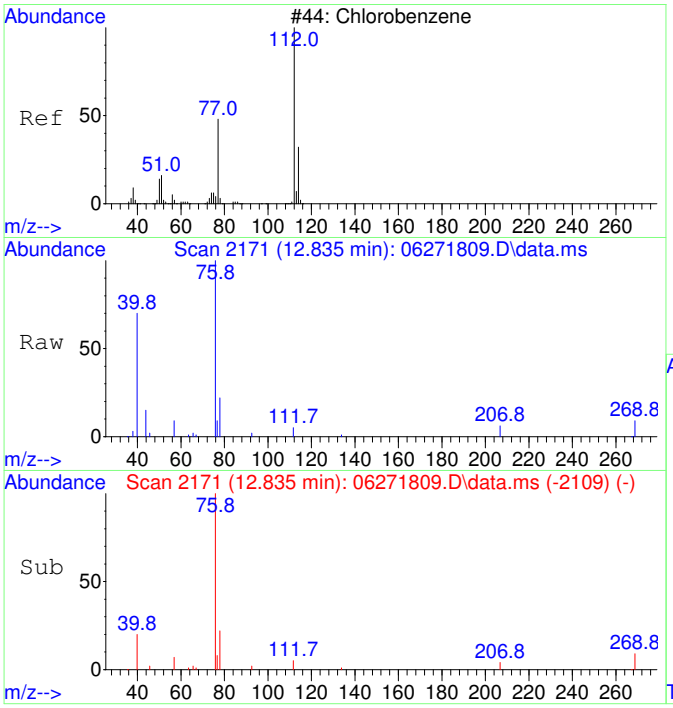


#38
1,1,2-Trichloroethane SCAN
Concen: 309.49 ug/L
RT: 11.273 min Scan# 2002
Delta R.T. -0.032 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 830

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#

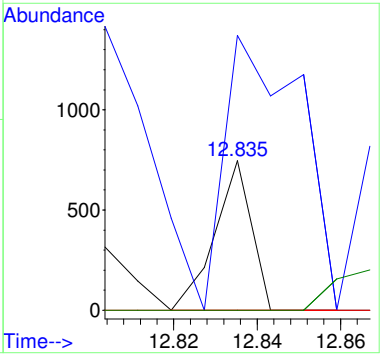


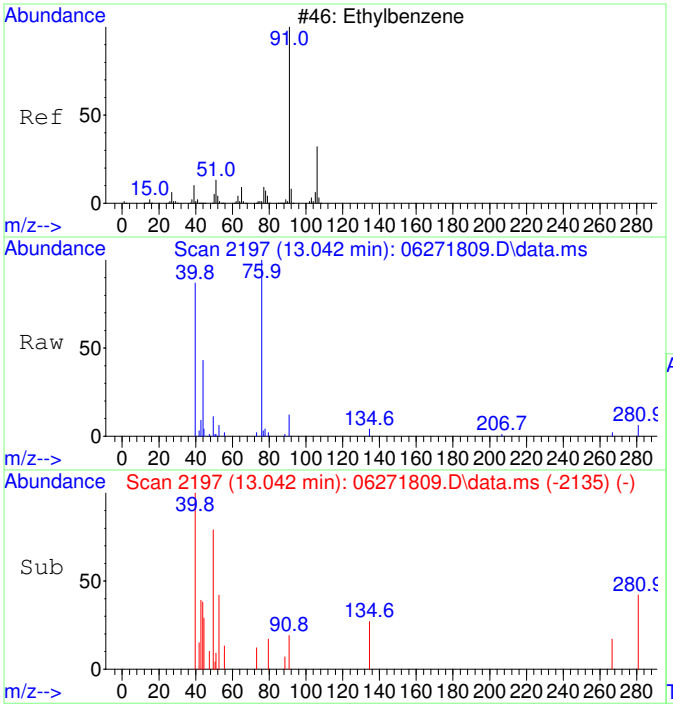


#40
Chlorobenzene SCAN
Concen: 53.95 ug/L
RT: 12.835 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:112 Resp: 458

Ion	Ratio	Lower	Upper
112	100		
77	376.2	28.4	88.4#
114	0.0	0.0	59.5
51	0.0	0.0	53.7

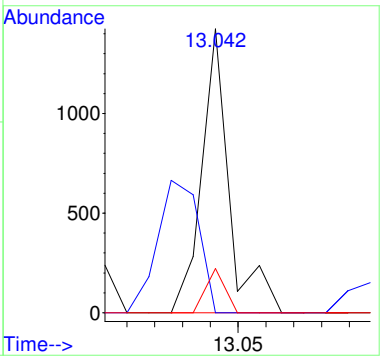


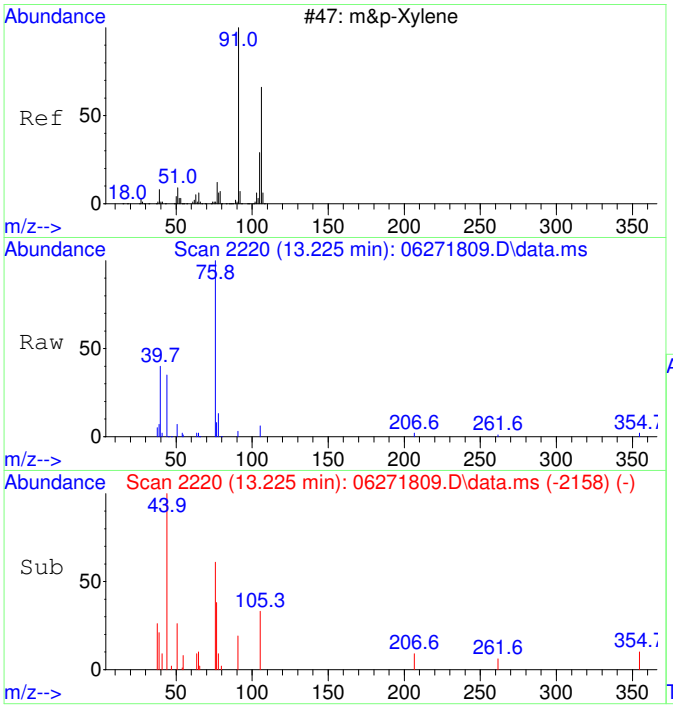


#42
Ethylbenzene SCAN
Concen: 60.12 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 978

Ion	Ratio	Lower	Upper
91	100		
106	70.0	3.2	63.2#
51	10.8	0.0	40.1

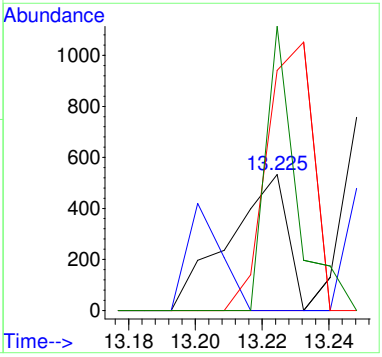


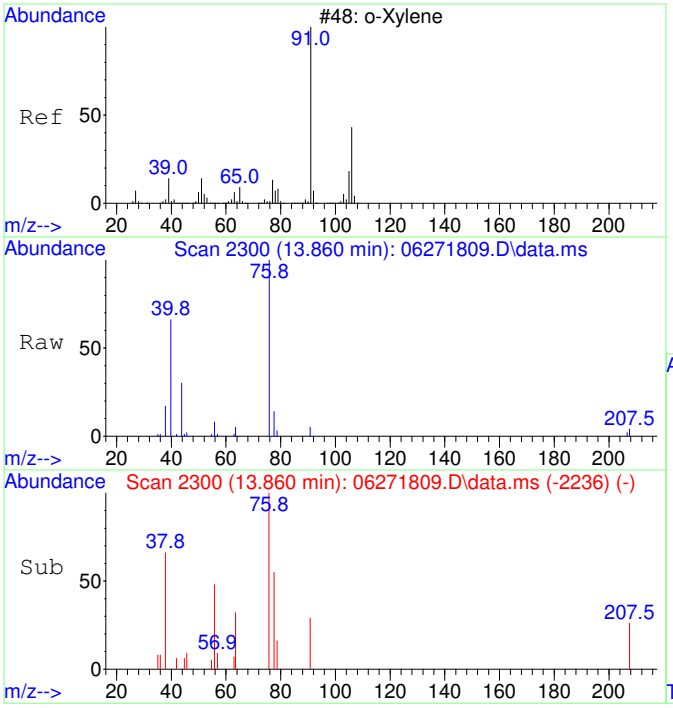


#43
m&p-Xylene SCAN
Concen: 28.79 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 650

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	156.5	0.0	51.1#
51	108.9	0.0	40.7#

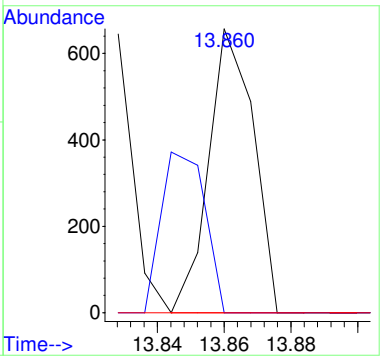


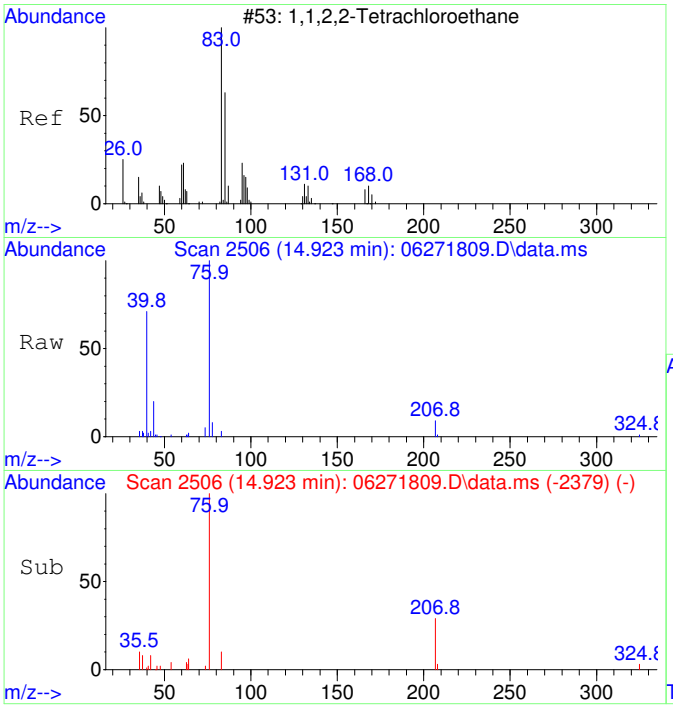


#44
o-Xylene SCAN
Concen: 47.62 ug/L
RT: 13.860 min Scan# 2300
Delta R.T. 0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 612

Ion	Ratio	Lower	Upper
91	100		
106	55.6	21.3	81.3
105	0.0	0.0	55.2

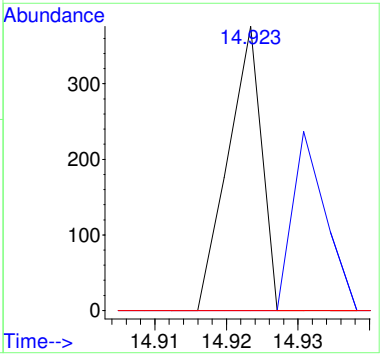


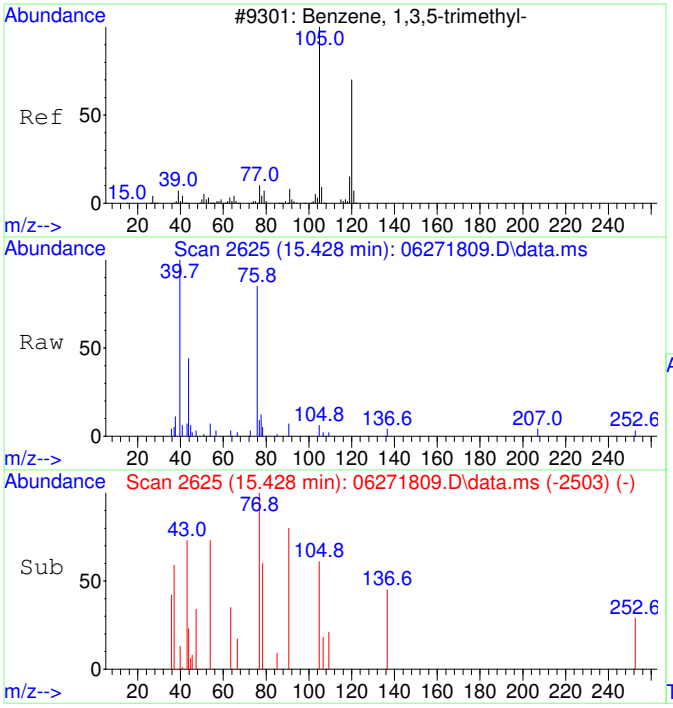


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 20.19 ug/L
RT: 14.923 min Scan# 2506
Delta R.T. -0.030 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 123

Ion	Ratio	Lower	Upper
83	100		
85	61.8	31.6	91.6
95	0.0	0.0	49.0

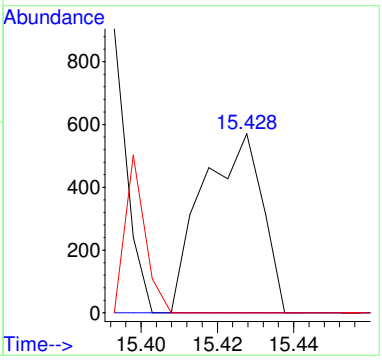


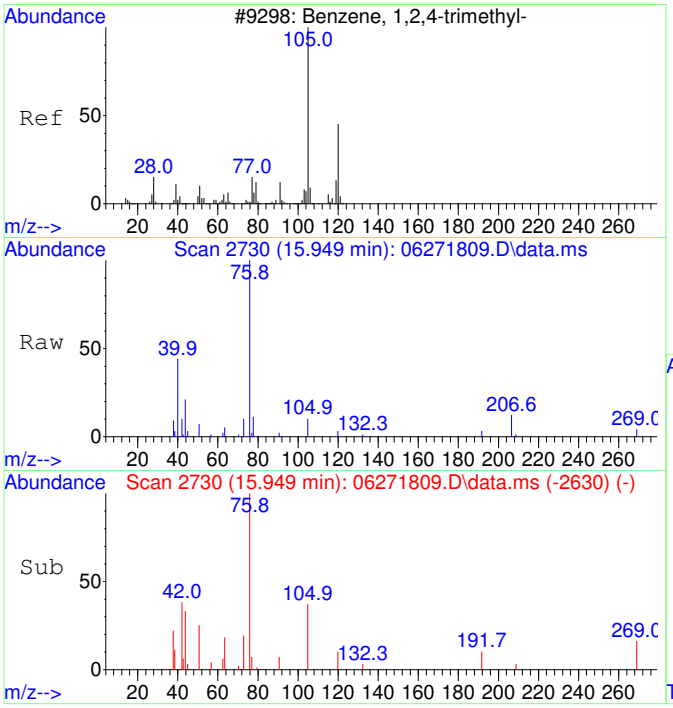


#46
1,3,5-Trimethylbenzene SCAN
Concen: 48.81 ug/L
RT: 15.428 min Scan# 2625
Delta R.T. 0.015 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 622

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

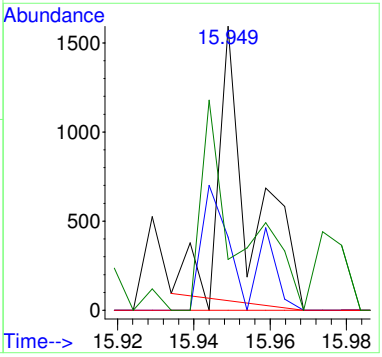




#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.68 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. -0.005 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 923

Ion	Ratio	Lower	Upper
105	100		
120	35.9	15.4	75.4
119	0.0	0.0	41.7
77	85.0	0.0	42.0#



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271809.D
Acq On : 27 Jun 2018 12:41
InstName : AG5975C
Operator : TD
Sample : B18F097-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

M.I. Performed By:
TD at 3:18 pm, Jun 27, 2018

M.I. Approved By:
ZR at 11:14 am, Jul 02, 2018

Quant Time: Jun 27 15:17:48 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

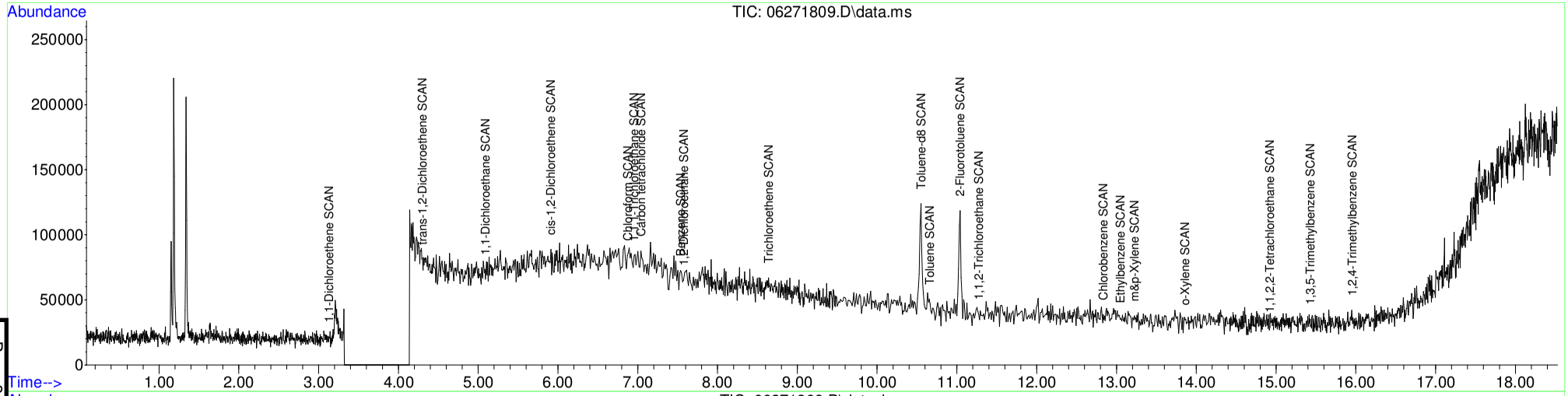
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	104008	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	89457	5295.18 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 105.90%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	231m	53.00 ug/L	
3] trans-1,2-Dichloroethene	4.309	61	261	56.12 ug/L	80
4] 1,1-Dichloroethane	5.072	63	381	65.82 ug/L	82
5] cis-1,2-Dichloroethene	6.101	61	298	52.18 ug/L	93
6] Chloroform	6.676	83	420	68.31 ug/L	76
7] 1,1,1-Trichloroethane	6.943	97	402	66.42 ug/L	74
8] Carbon tetrachloride	7.211	117	352	61.40 ug/L #	56
9] Benzene	7.551	78	1238	74.13 ug/L #	1
10] 1,2-Dichloroethane	7.588	62	339	62.99 ug/L #	1
11] Trichloroethene	8.618	130	260	56.65 ug/L #	74
13] Toluene	10.644	91	1975	87.19 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	292	62.37 ug/L	74
15] Tetrachloroethene	11.495	166	428	67.06 ug/L	87
16] Chlorobenzene	12.829	112	1019	63.03 ug/L	61
17] 1,1,1,2-Tetrachloroethane	12.987	131	354	64.52 ug/L #	48
18] Ethylbenzene	13.035	91	1847	67.95 ug/L	96
19] m&p-Xylene	13.234	91	2935	139.90 ug/L	95
20] o-Xylene	13.845	91	1392	62.65 ug/L	88
21] 1,1,2,2-Tetrachloroethane	14.947	83	591	61.76 ug/L	97
22] 1,3,5-Trimethylbenzene	15.414	105	1864	74.14 ug/L	90
23] 1,2,4-Trimethylbenzene	15.955	105	1606	63.86 ug/L	100
25) 2-Fluorotoluene SCAN	11.042	109	57528	4746.65 ug/L	93
26) 1,1-Dichloroethene SCAN	3.129	61	93	30.75 ug/L #	11
27) trans-1,2-Dichloroethe...	4.295	61	103	29.25 ug/L #	1
28) 1,1-Dichloroethane SCAN	5.084	63	145	32.37 ug/L #	43
29) cis-1,2-Dichloroethene...	5.914	61	252	65.05 ug/L #	30
30) Chloroform SCAN	6.869	83	512	107.68 ug/L #	1
31) 1,1,1-Trichloroethane ...	6.954	97	215	50.80 ug/L #	32
32) Carbon tetrachloride SCAN	7.039	117	299	71.69 ug/L #	13
33) Benzene SCAN	7.538	78	12437	985.34 ug/L #	73
34) 1,2-Dichloroethane SCAN	7.575	62	406	94.32 ug/L #	39
35) Trichloroethene SCAN	8.639	130	477	154.43 ug/L #	55
36) Toluene-d8 SCAN	10.549	98	51245	4677.28 ug/L	86
37) Toluene SCAN	10.654	91	3670	262.23 ug/L #	91
38) 1,1,2-Trichloroethane ...	11.273	97	830	309.49 ug/L #	10
40) Chlorobenzene SCAN	12.835	112	458	53.95 ug/L #	1
42) Ethylbenzene SCAN	13.042	91	978	60.12 ug/L #	50
43) m&p-Xylene SCAN	13.225	91	650	28.79 ug/L #	1
44) o-Xylene SCAN	13.860	91	612	47.62 ug/L #	79
45) 1,1,2,2-Tetrachloroeth...	14.923	83	123	20.19 ug/L #	90
46) 1,3,5-Trimethylbenzene...	15.428	105	622	48.81 ug/L #	38
47) 1,2,4-Trimethylbenzene...	15.949	105	923	70.68 ug/L #	53

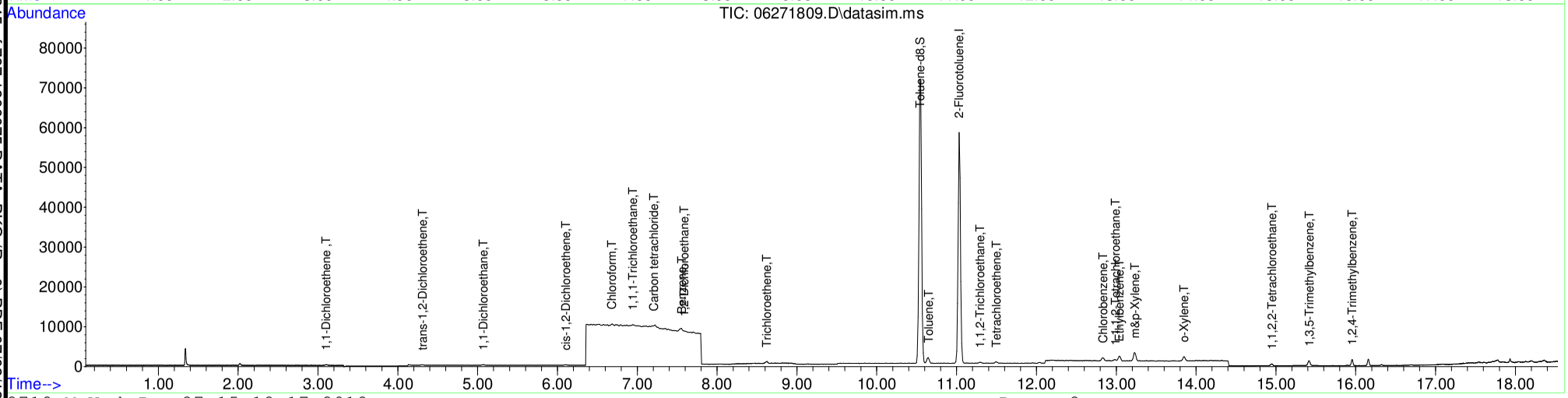
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271809.D
Acq On : 27 Jun 2018 12:41
InstName : AG5975C
Operator : TD
Sample : B18F097-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 15:17:48 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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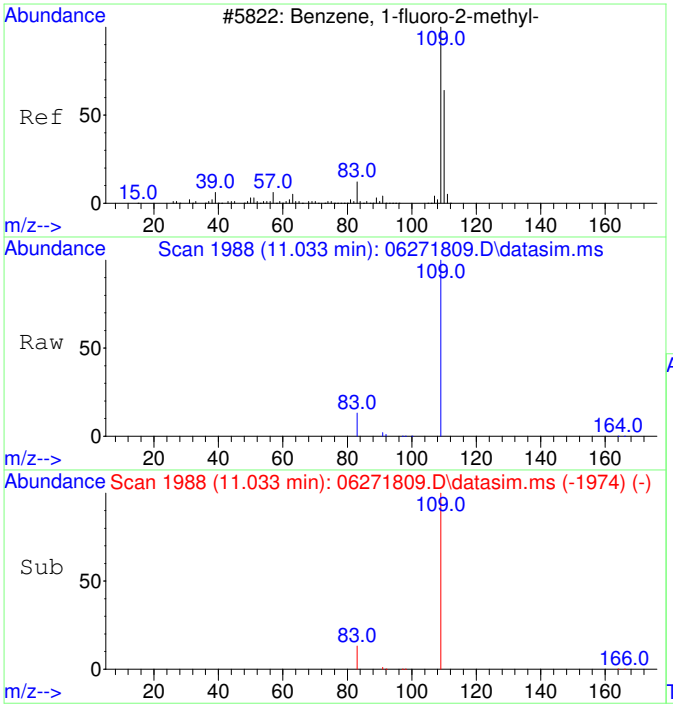
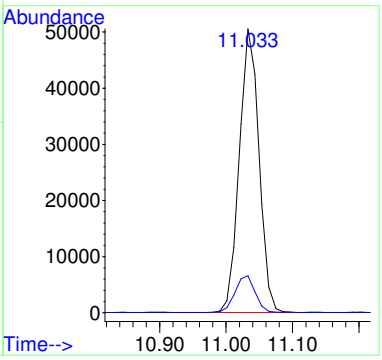
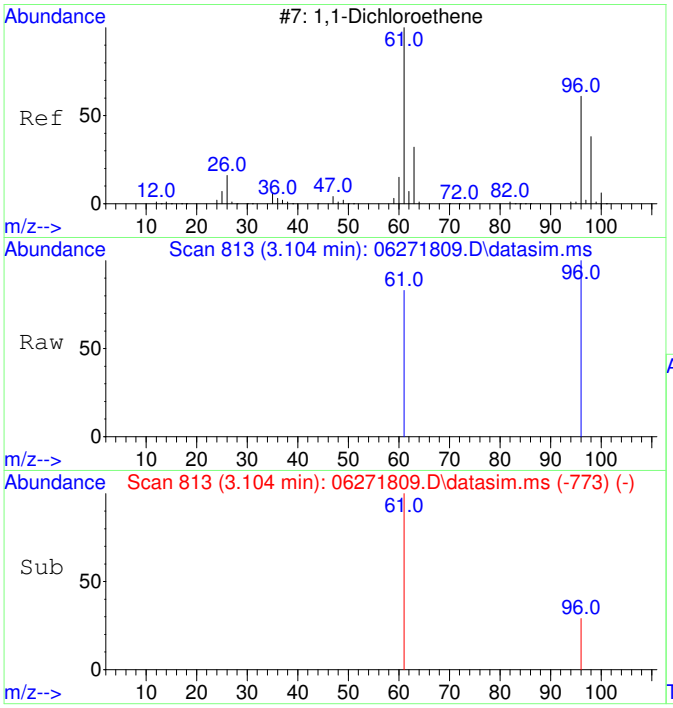


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:109 Resp: 104008

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

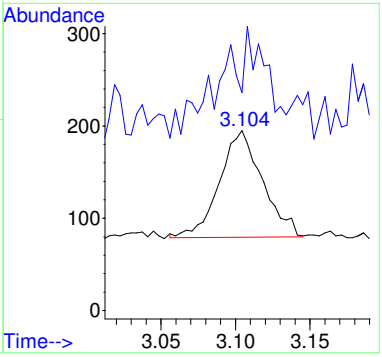


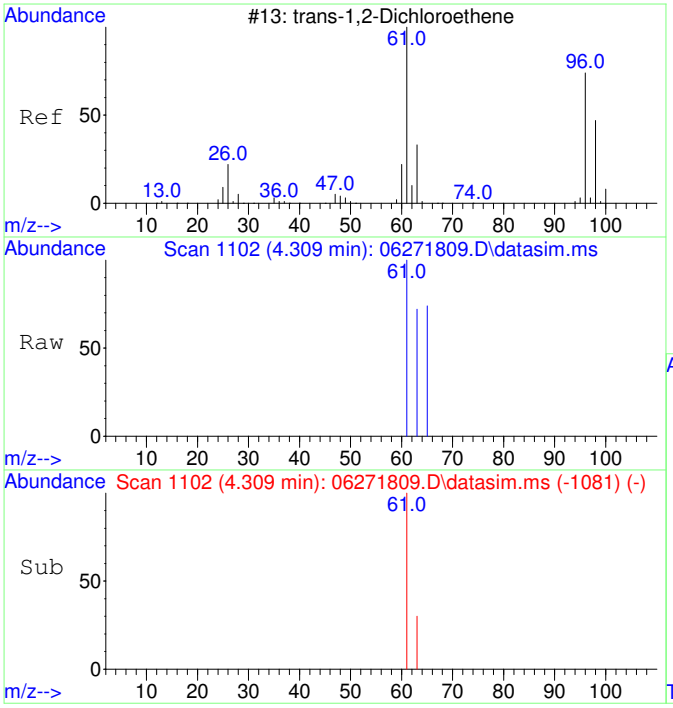


#2
1,1-Dichloroethene
Concen: 53.00 ug/L m
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 231

Ion	Ratio	Lower	Upper
61	100		
96	111.7	28.7	88.7#

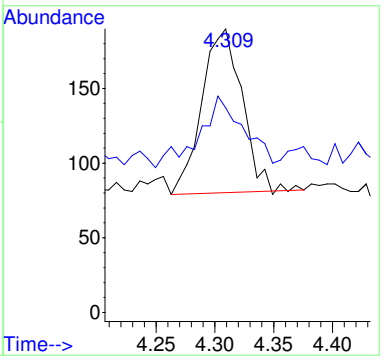


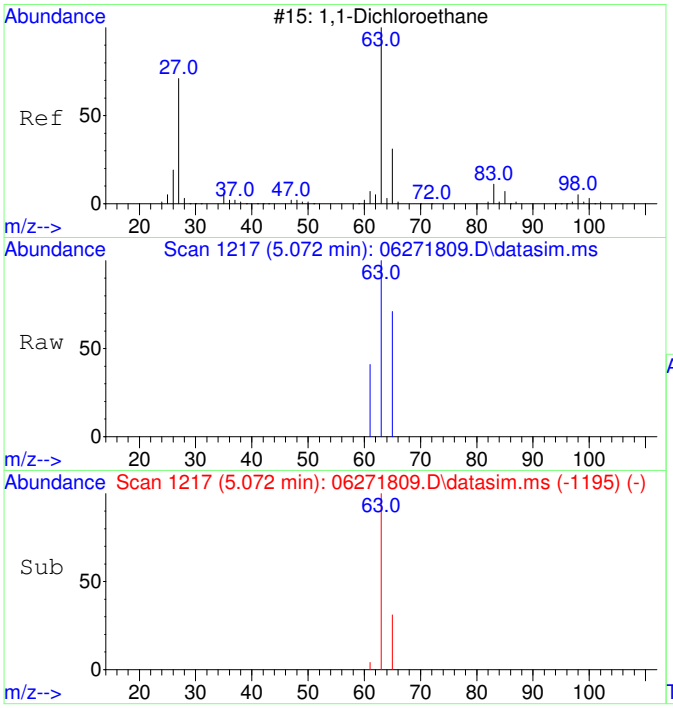


#3
trans-1,2-Dichloroethene
Concen: 56.12 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.014 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 261

Ion	Ratio	Lower	Upper
61	100		
63	42.9	2.0	62.0

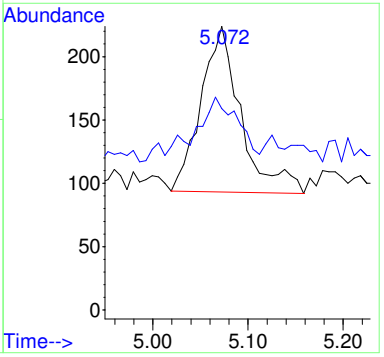


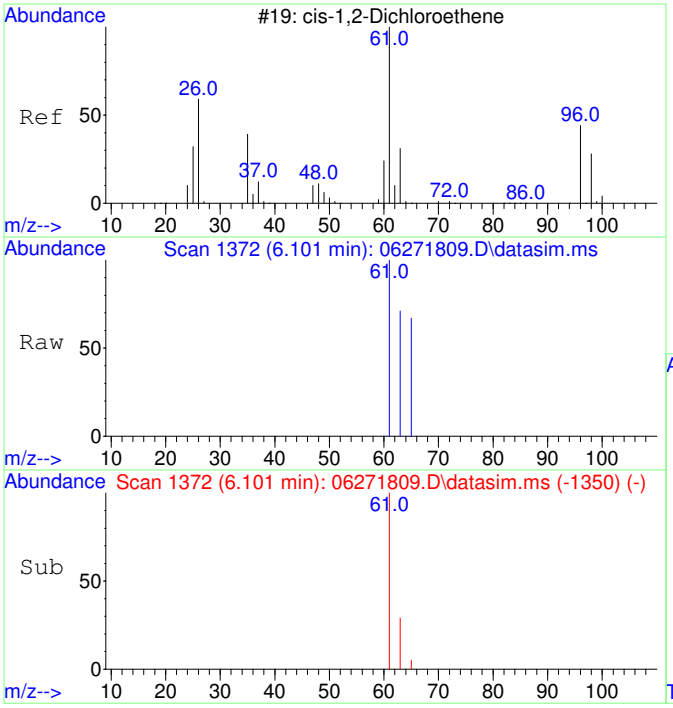


#4
1,1-Dichloroethane
Concen: 65.82 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.007 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 63 Resp: 381

Ion	Ratio	Lower	Upper
63	100		
65	41.5	1.5	61.5

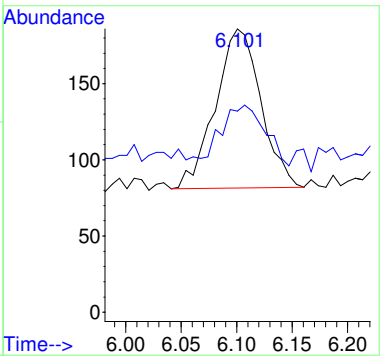


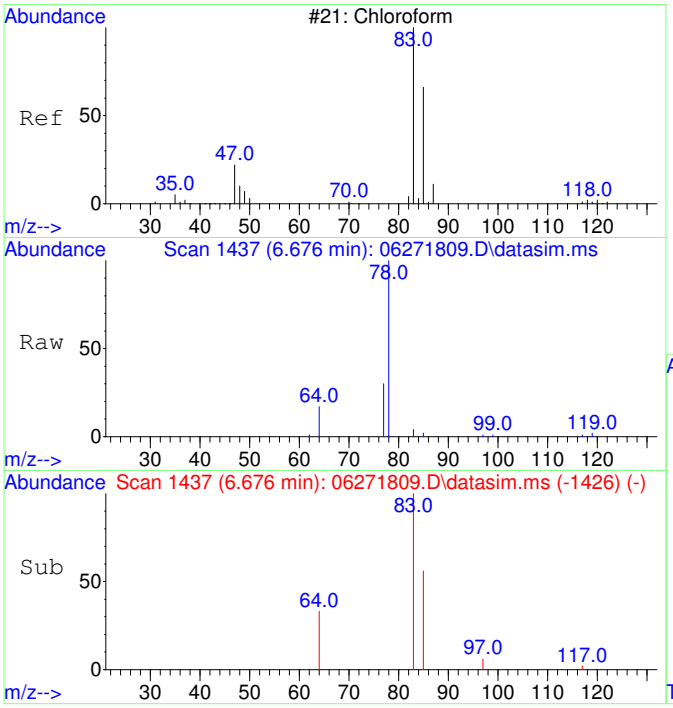


#5
cis-1,2-Dichloroethene
Concen: 52.18 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 298

Ion	Ratio	Lower	Upper
61	100		
63	36.2	2.2	62.2

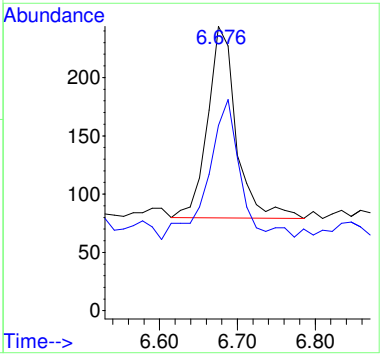


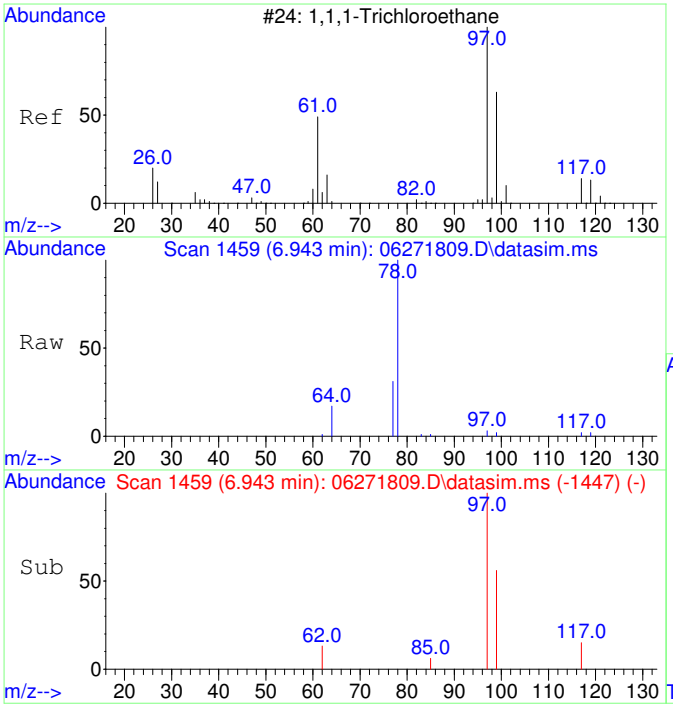


#6
Chloroform
Concen: 68.31 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 420

Ion	Ratio	Lower	Upper
83	100		
85	83.6	34.8	94.8

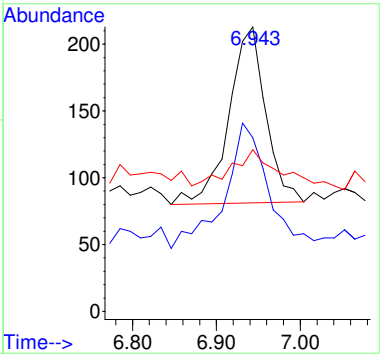


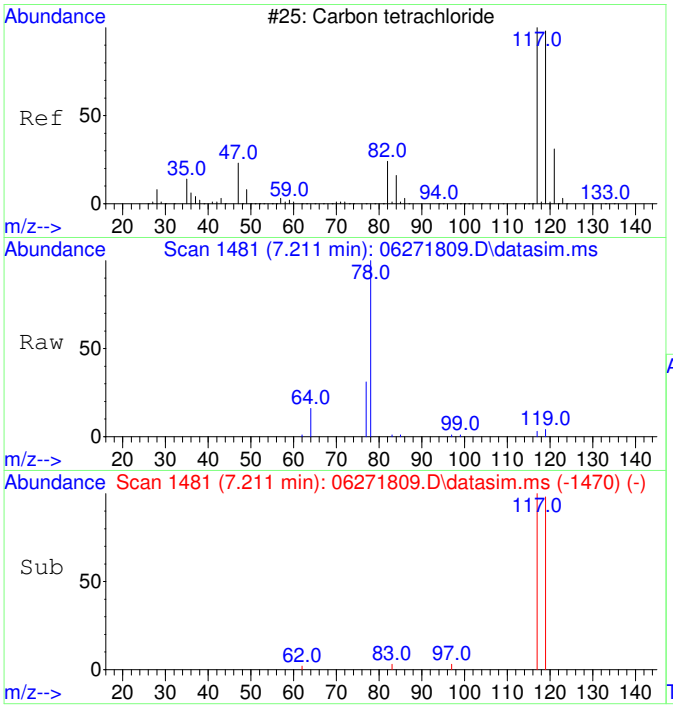


#7
1,1,1-Trichloroethane
Concen: 66.42 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
99	84.3	34.6	94.6
117	24.4	0.0	42.9

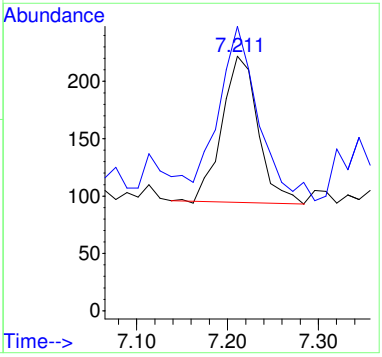


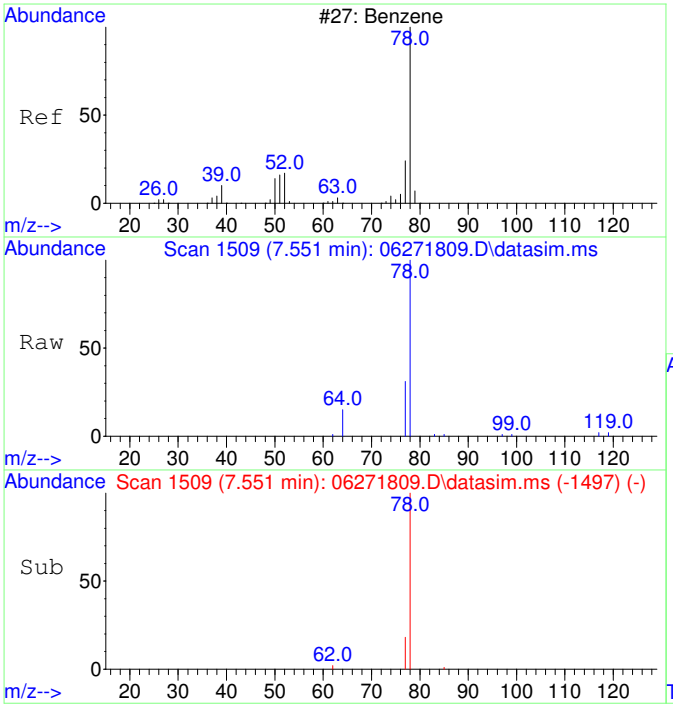


#8
Carbon tetrachloride
Concen: 61.40 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:117 Resp: 352

Ion	Ratio	Lower	Upper
117	100		
119	138.9	65.9	125.9#

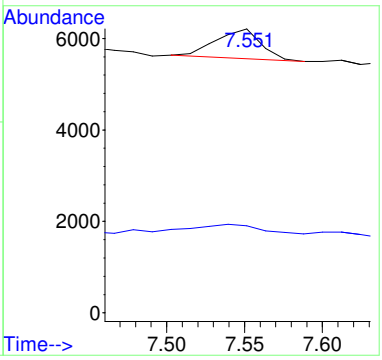


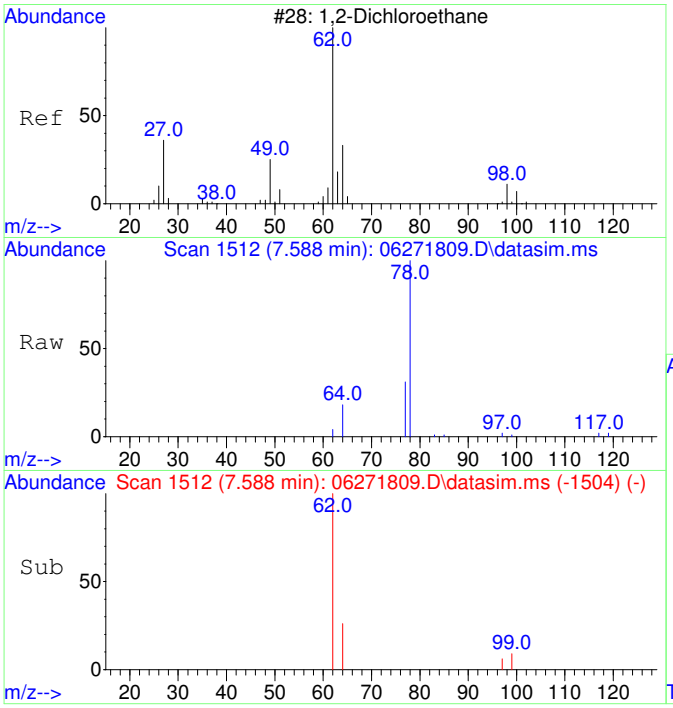


#9
Benzene
Concen: 74.13 ug/L
RT: 7.551 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 78 Resp: 1238

Ion	Ratio	Lower	Upper
78	100		
77	72.4	0.0	53.0#

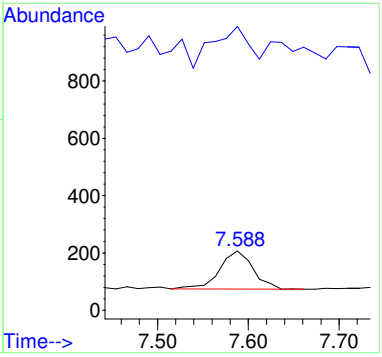


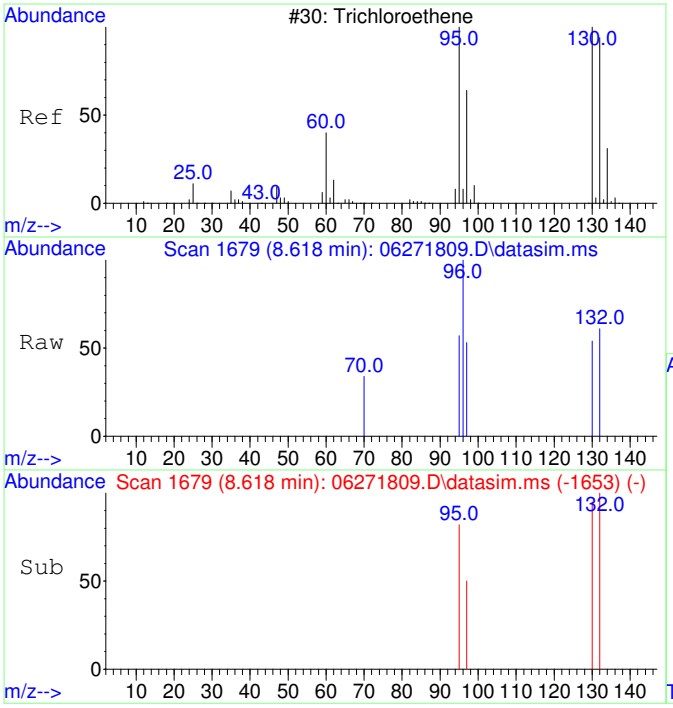


#10
1,2-Dichloroethane
Concen: 62.99 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 62 Resp: 339

Ion	Ratio	Lower	Upper
62	100		
64	117.4	2.3	62.3#

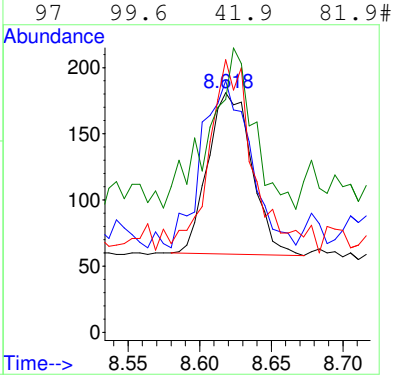


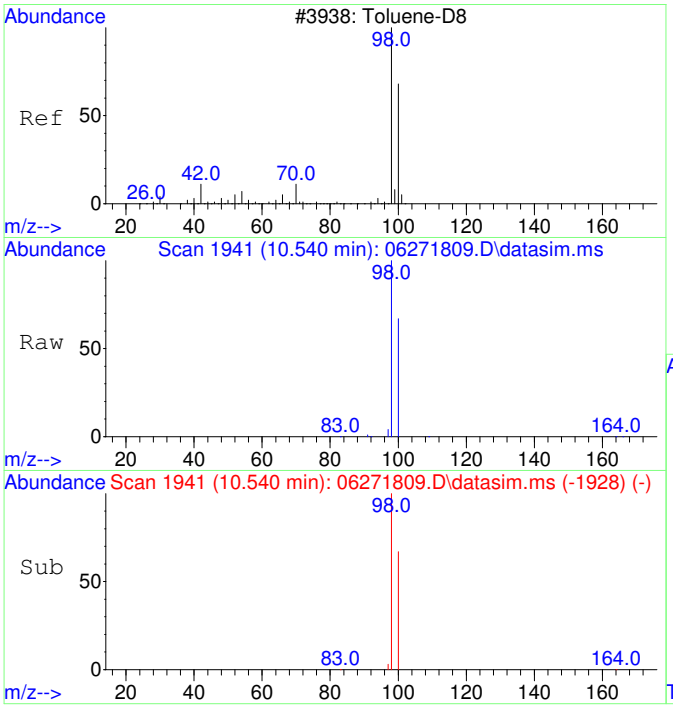


#11
Trichloroethene
Concen: 56.65 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:130 Resp: 260

Ion	Ratio	Lower	Upper
130	100		
95	116.2	66.0	126.0
132	114.2	78.8	118.8
97	99.6	41.9	81.9#

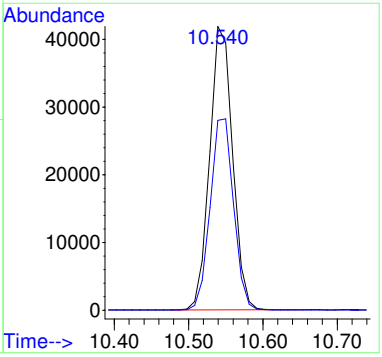


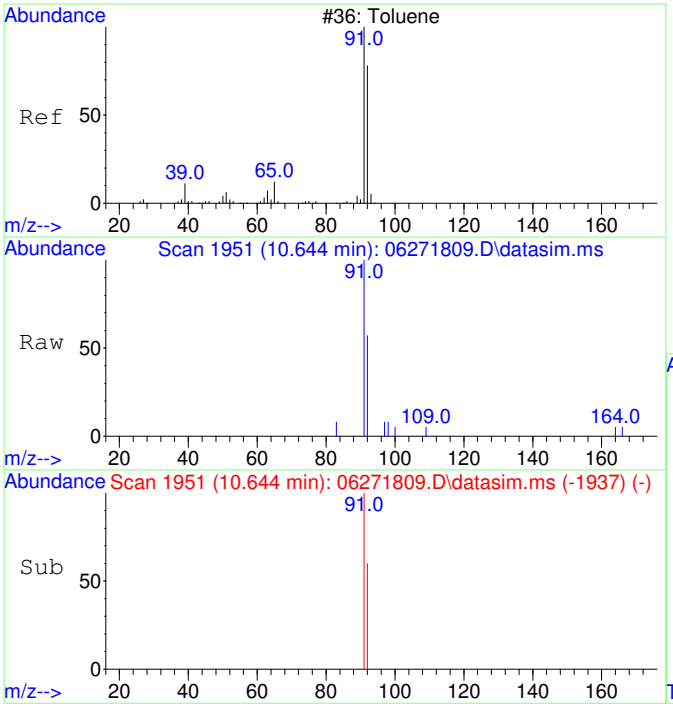


#12
Toluene-d8
Concen: 5295.18 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 98 Resp: 89457

Ion	Ratio	Lower	Upper
98	100		
100	68.8	38.7	98.7

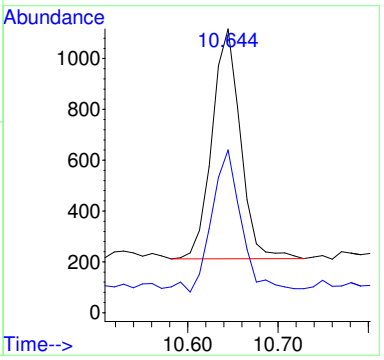


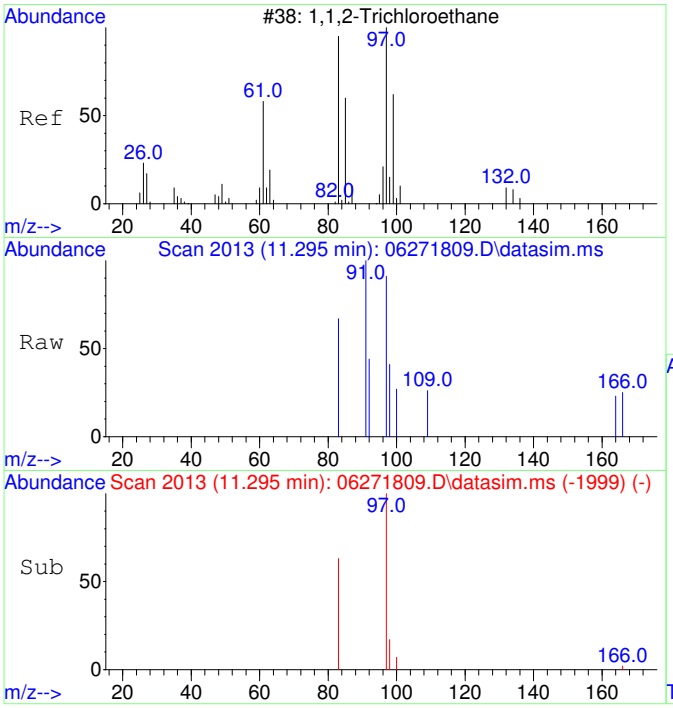


#13
Toluene
Concen: 87.19 ug/L
RT: 10.644 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1975

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

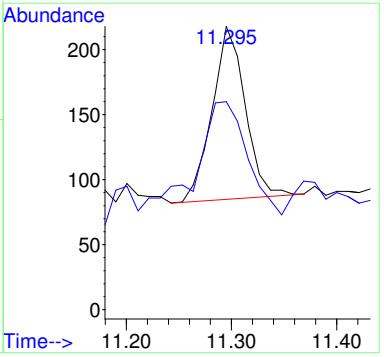


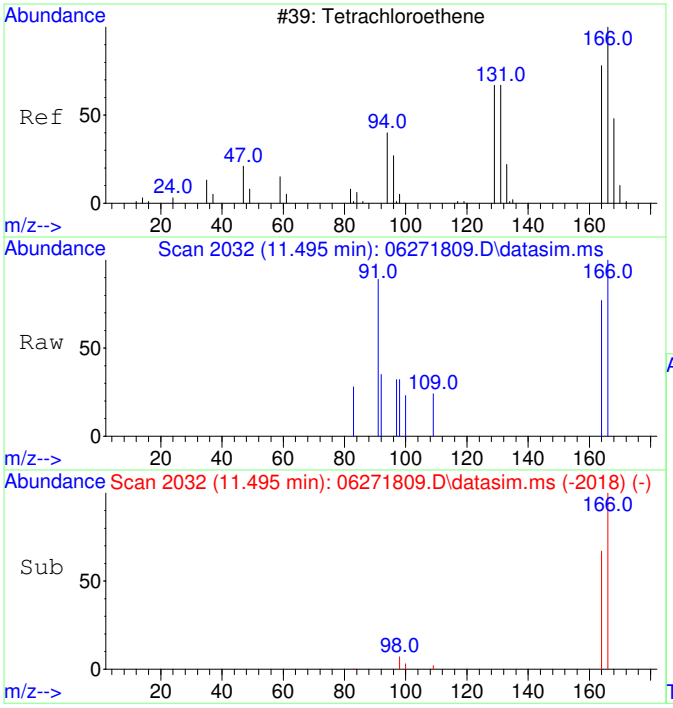


#14
1,1,2-Trichloroethane
Concen: 62.37 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 292

Ion	Ratio	Lower	Upper
97	100		
83	106.5	53.4	113.4

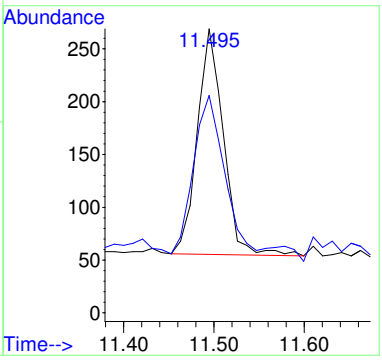


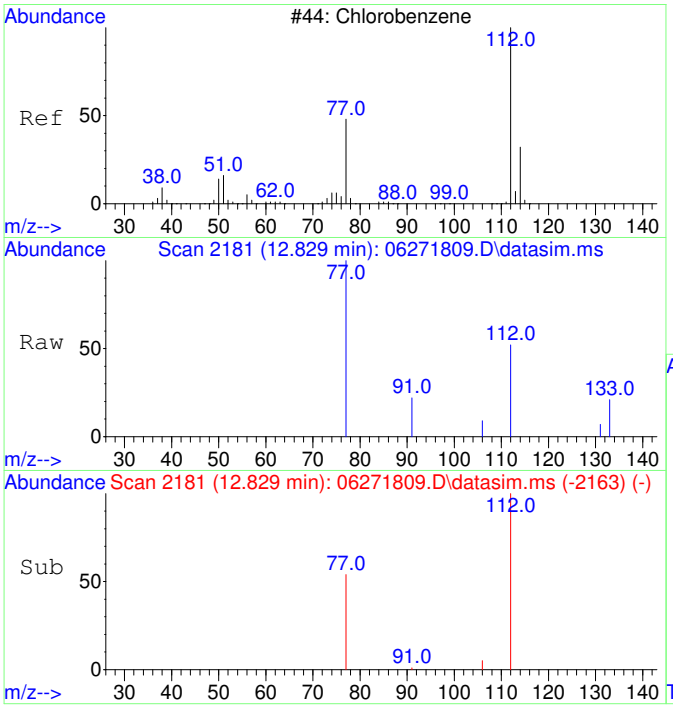


#15
Tetrachloroethene
Concen: 67.06 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:166 Resp: 428

Ion	Ratio	Lower	Upper
166	100		
164	89.3	47.8	107.8

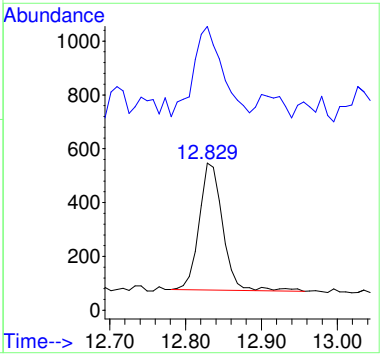


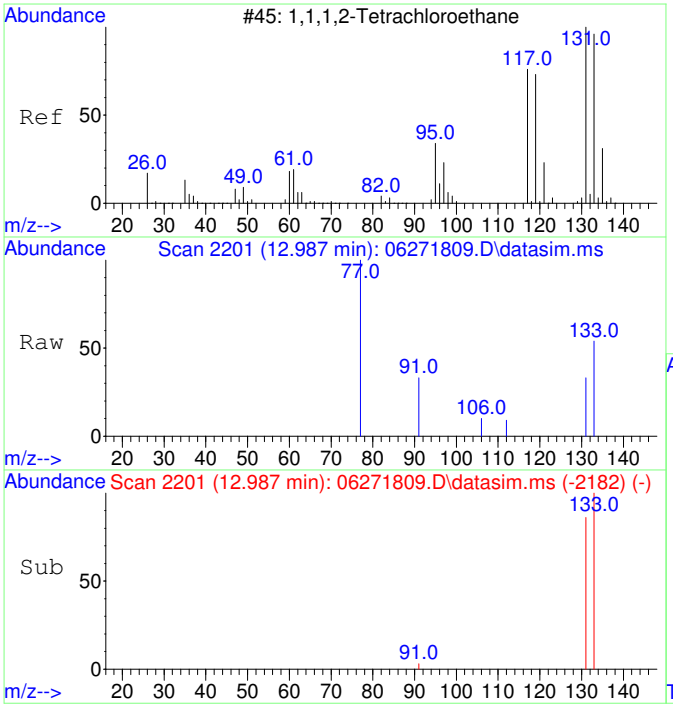


#16
Chlorobenzene
Concen: 63.03 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:112 Resp: 1019

Ion	Ratio	Lower	Upper
112	100		
77	87.4	28.1	88.1

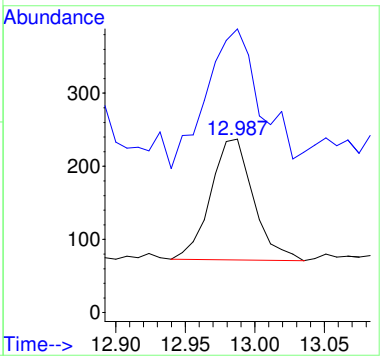


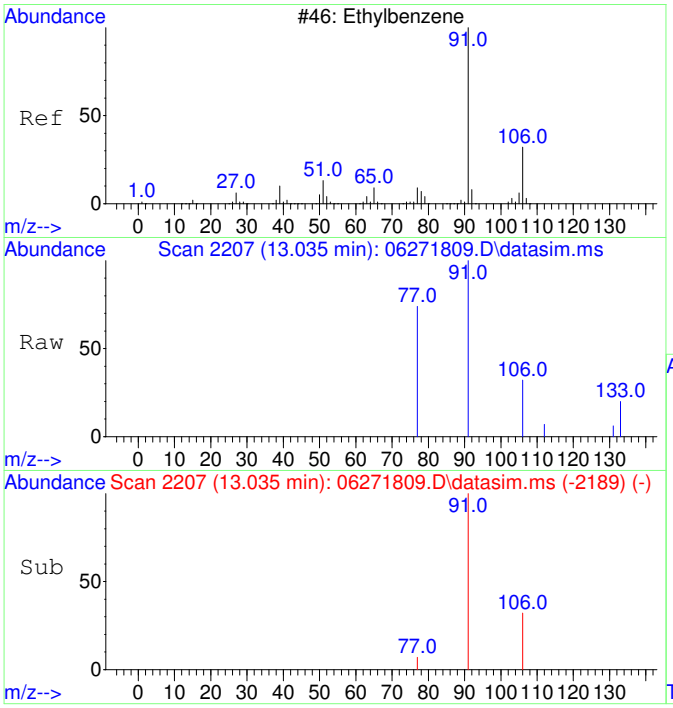


#17
1,1,1,2-Tetrachloroethane
Concen: 64.52 ug/L
RT: 12.987 min Scan# 2201
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:131 Resp: 354

Ion	Ratio	Lower	Upper
131	100		
133	147.5	66.2	126.2#

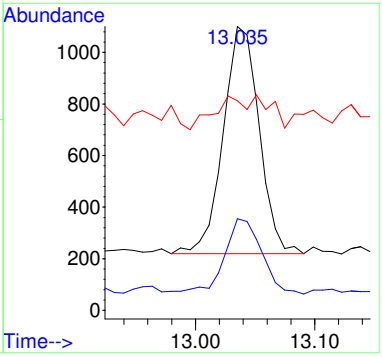


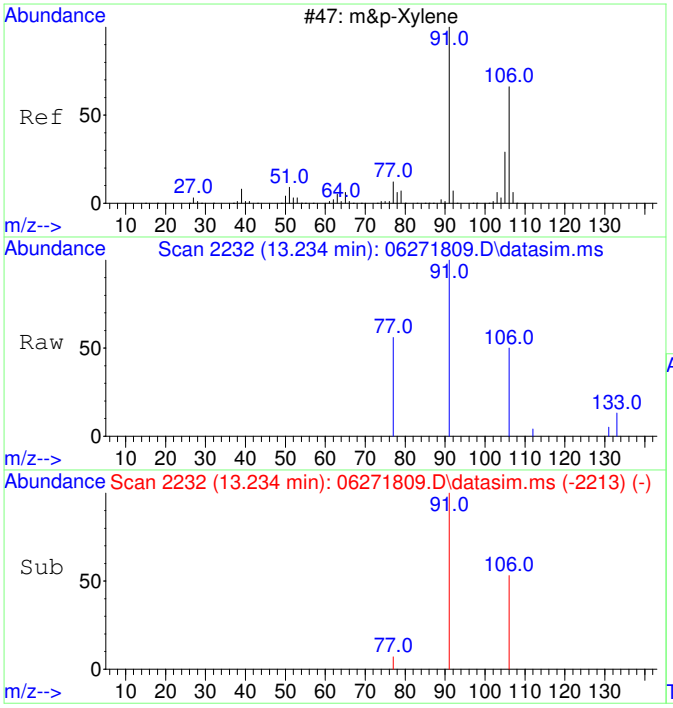


#18
Ethylbenzene
Concen: 67.95 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1847

Ion	Ratio	Lower	Upper
91	100		
106	34.2	2.8	62.8
77	12.9	0.0	38.6

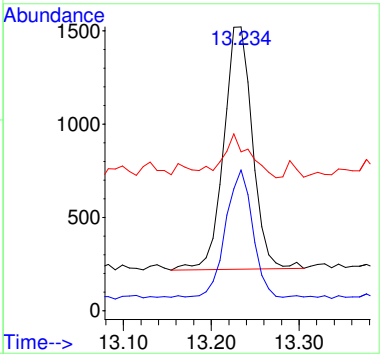


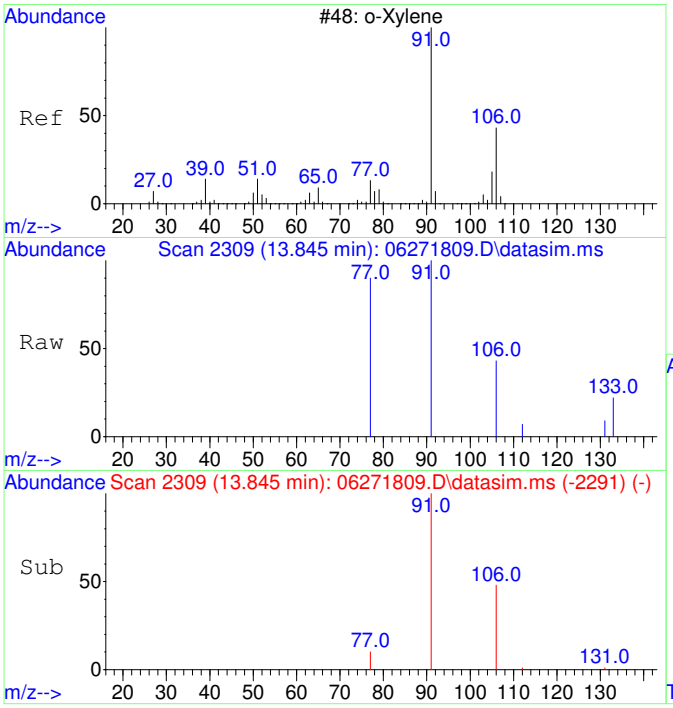


#19
m&p-Xylene
Concen: 139.90 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 2935

Ion	Ratio	Lower	Upper
91	100		
106	49.1	21.2	81.2
77	17.1	0.0	42.9

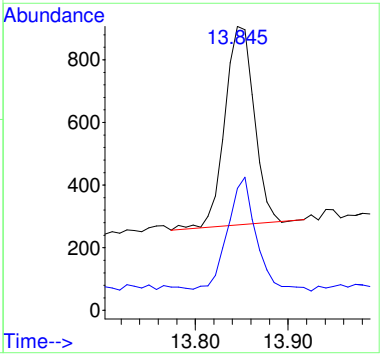


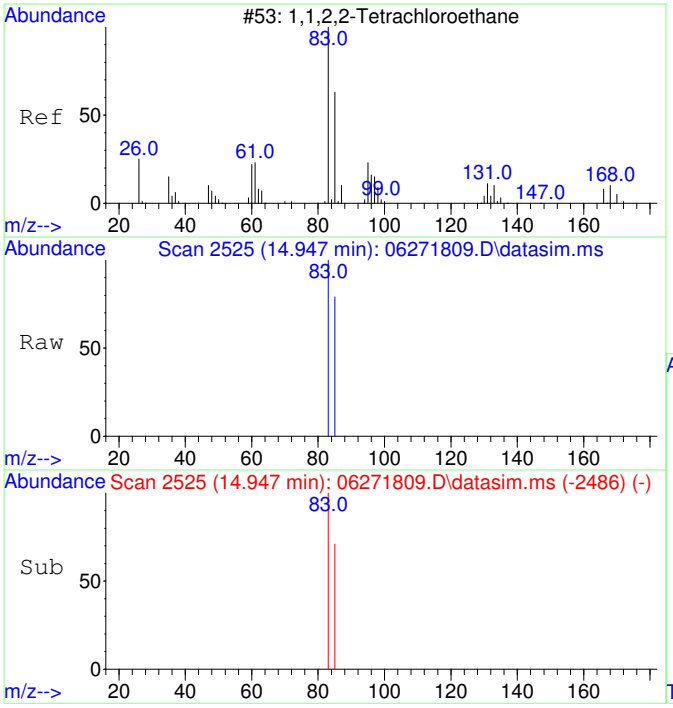


#20
o-Xylene
Concen: 62.65 ug/L
RT: 13.845 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1392

Ion	Ratio	Lower	Upper
91	100		
106	56.2	18.3	78.3

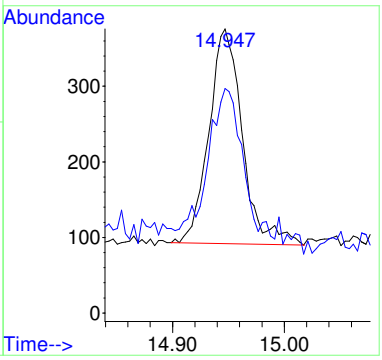


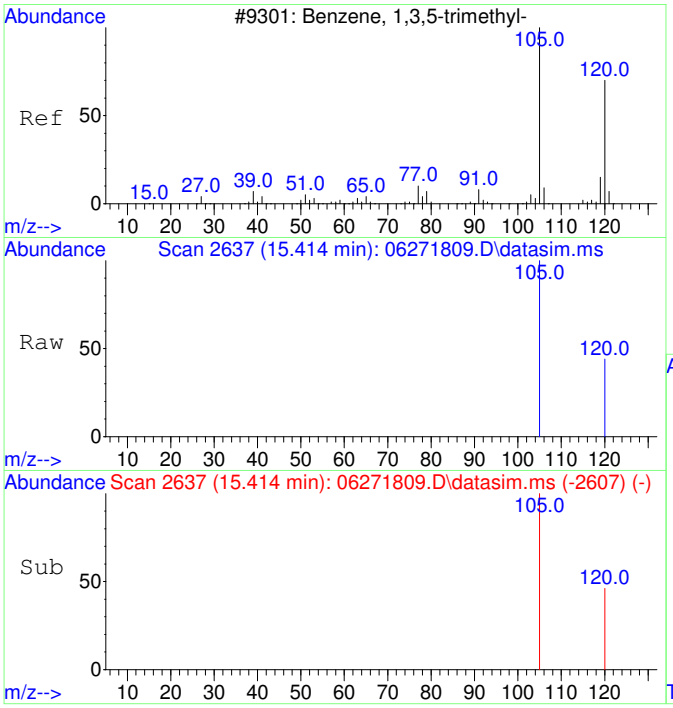


#21
1,1,2,2-Tetrachloroethane
Concen: 61.76 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 591

Ion	Ratio	Lower	Upper
83	100		
85	61.8	34.4	94.4

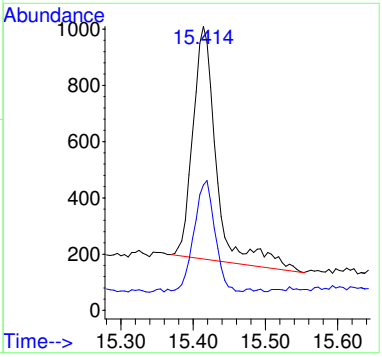


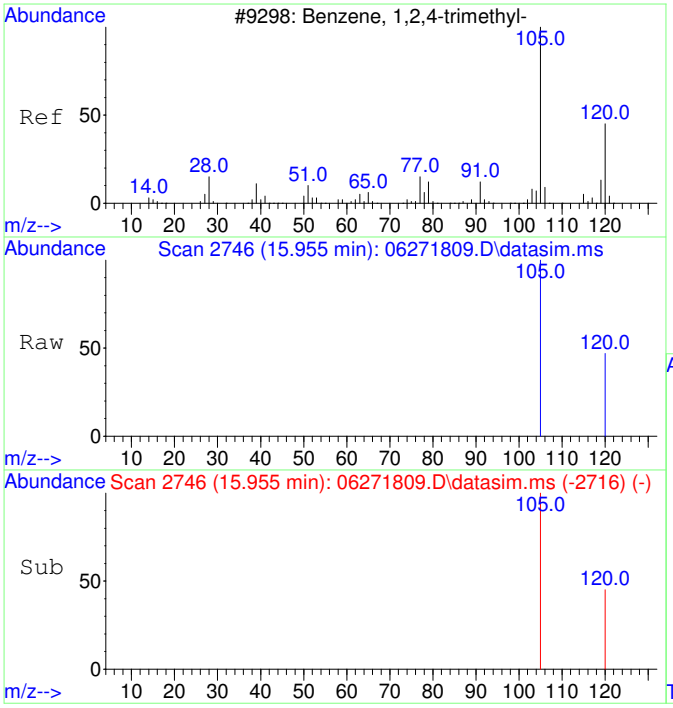


#22
1,3,5-Trimethylbenzene
Concen: 74.14 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 1864

Ion	Ratio	Lower	Upper
105	100		
120	42.5	19.1	79.1

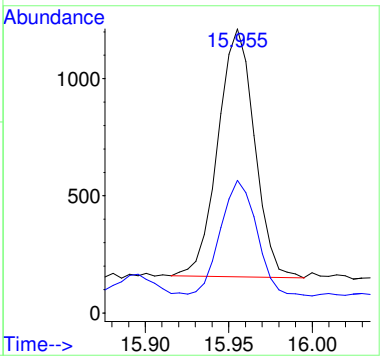


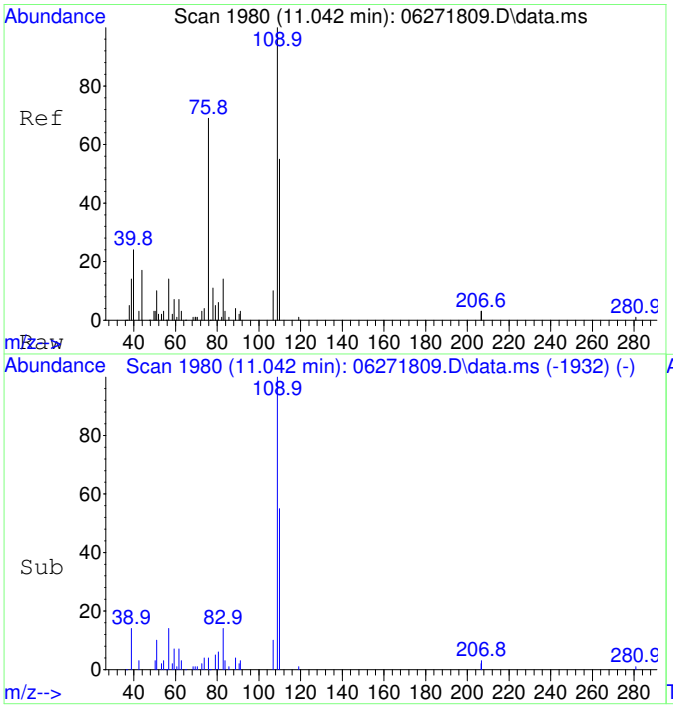


#23
1,2,4-Trimethylbenzene
Concen: 63.86 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 1606

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

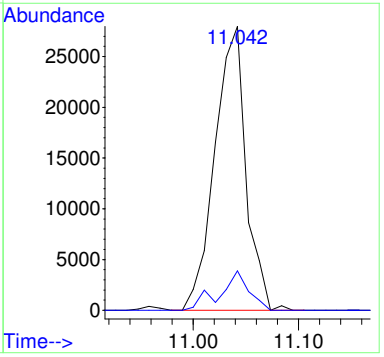


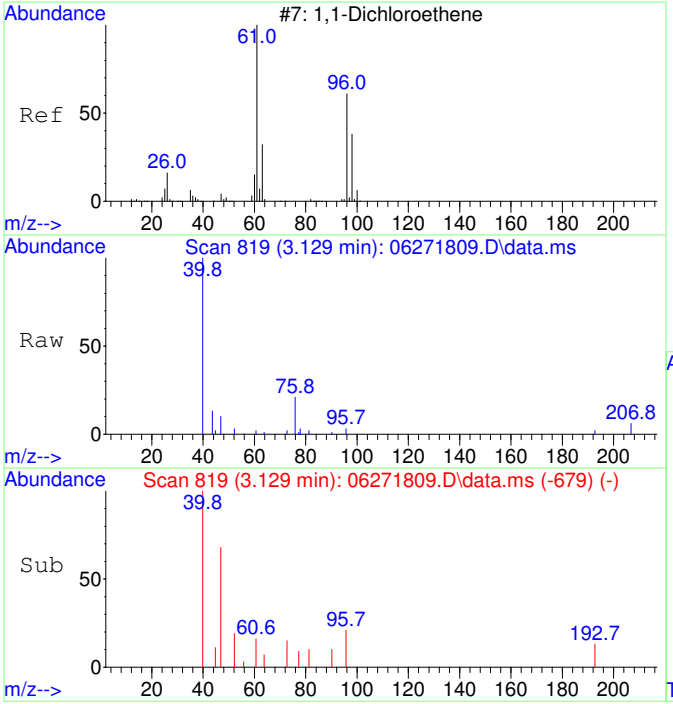


#25
2-Fluorotoluene SCAN
Concen: 4746.65 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:109 Resp: 57528

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	45.7

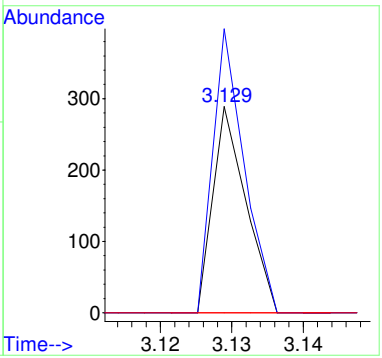


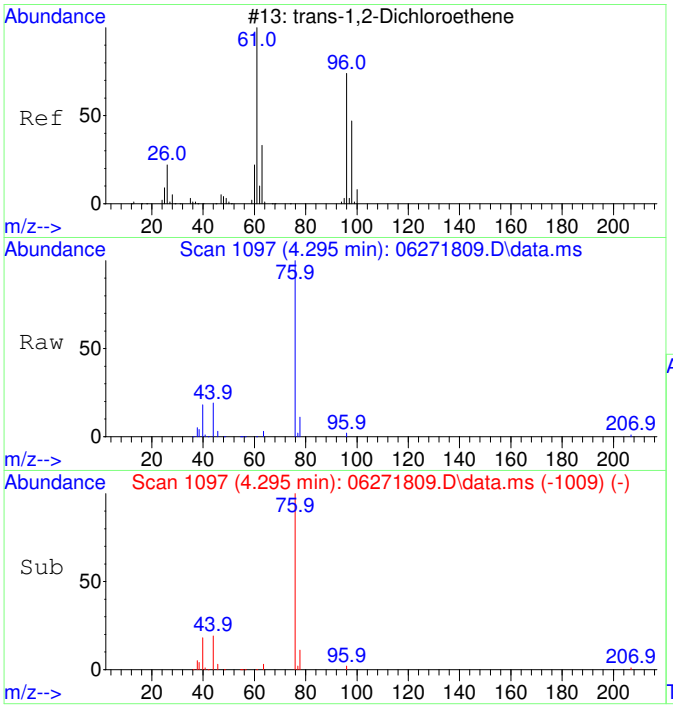


#26
1,1-Dichloroethene SCAN
Concen: 30.75 ug/L
RT: 3.129 min Scan# 819
Delta R.T. 0.018 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 93

Ion	Ratio	Lower	Upper
61	100		
96	130.1	23.8	83.8#
98	0.0	8.8	68.8#

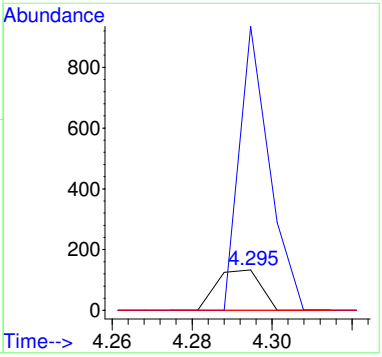


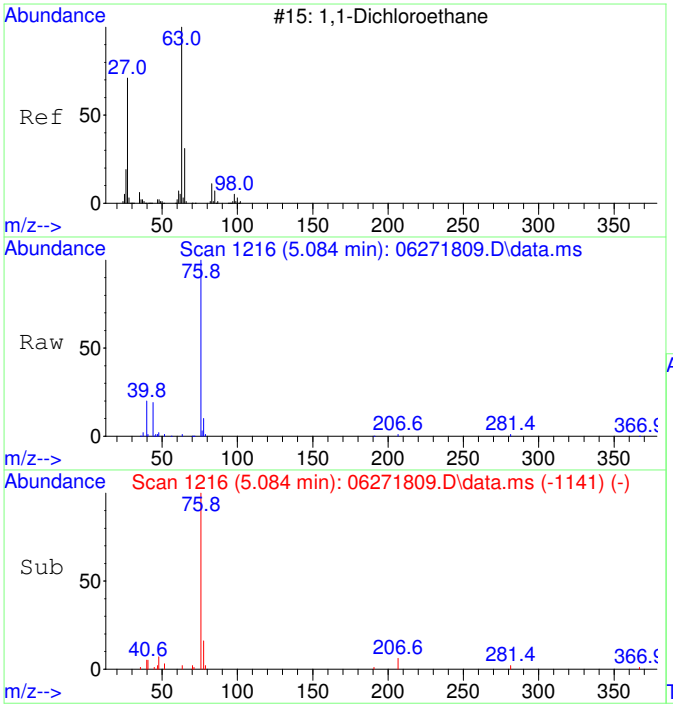


#27
trans-1,2-Dichloroethene SCAN
Concen: 29.25 ug/L
RT: 4.295 min Scan# 1097
Delta R.T. -0.040 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 103

Ion	Ratio	Lower	Upper
61	100		
96	473.8	37.9	97.9#
98	0.0	12.7	72.7#

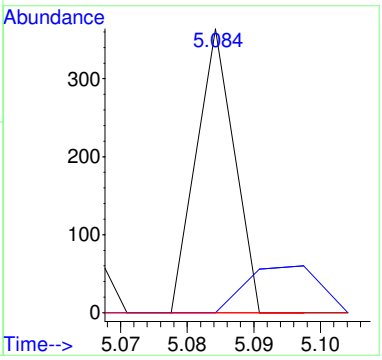


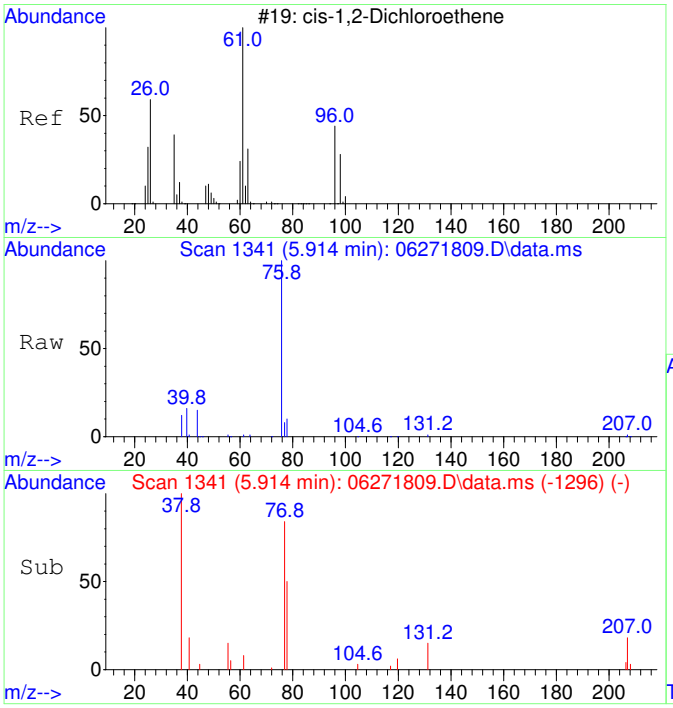


#28
1,1-Dichloroethane SCAN
Concen: 32.37 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 63 Resp: 145

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

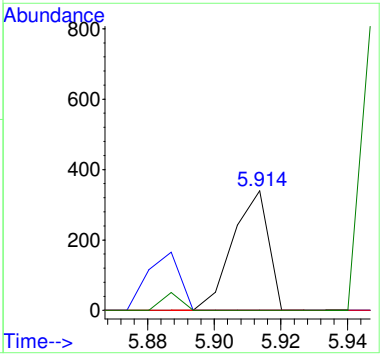


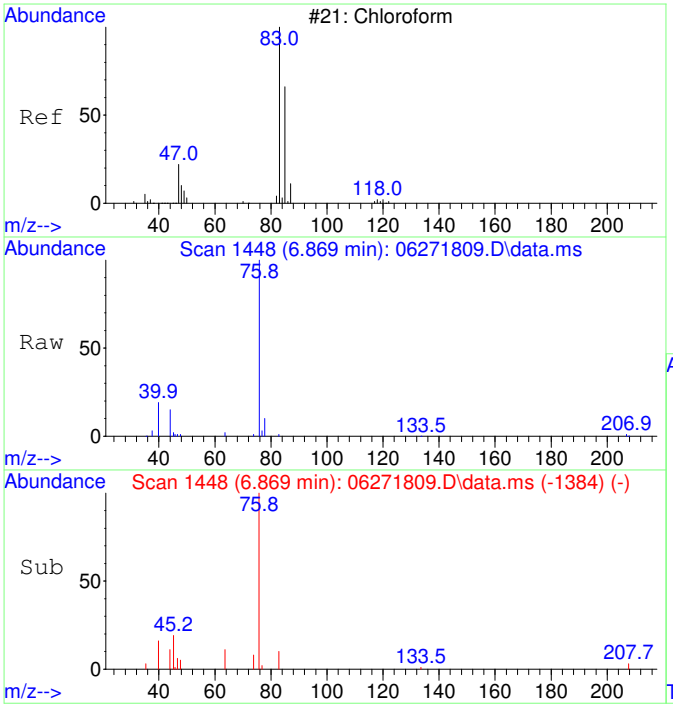


#29
cis-1,2-Dichloroethene SCAN
Concen: 65.05 ug/L
RT: 5.914 min Scan# 1341
Delta R.T. -0.199 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 252

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#

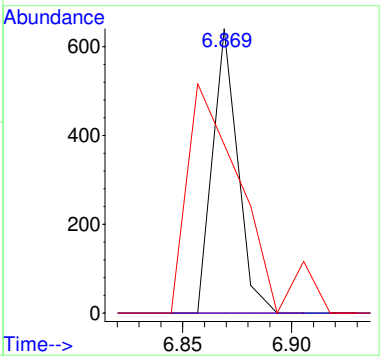


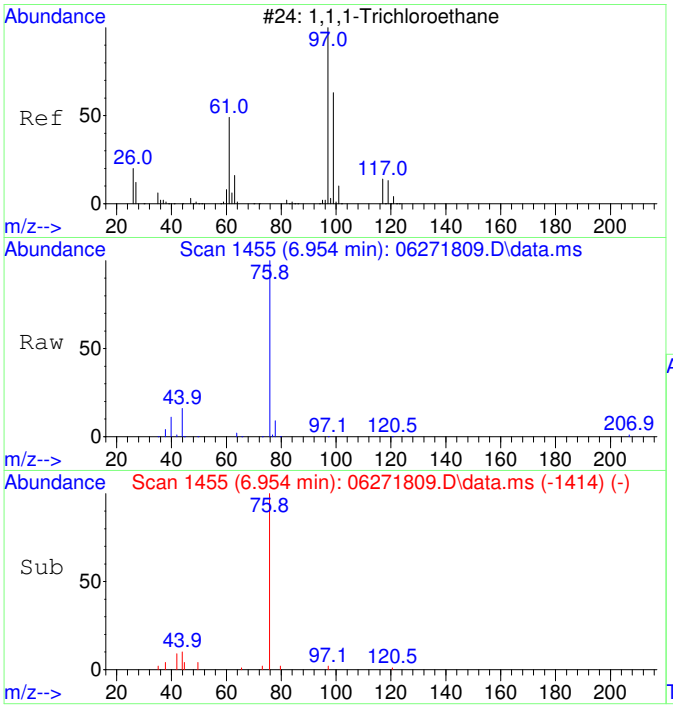


#30
Chloroform SCAN
Concen: 107.68 ug/L
RT: 6.869 min Scan# 1448
Delta R.T. 0.170 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 512

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	178.5	0.0	57.9#

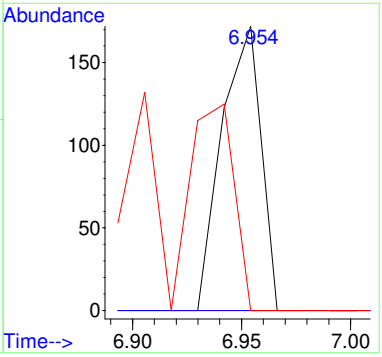


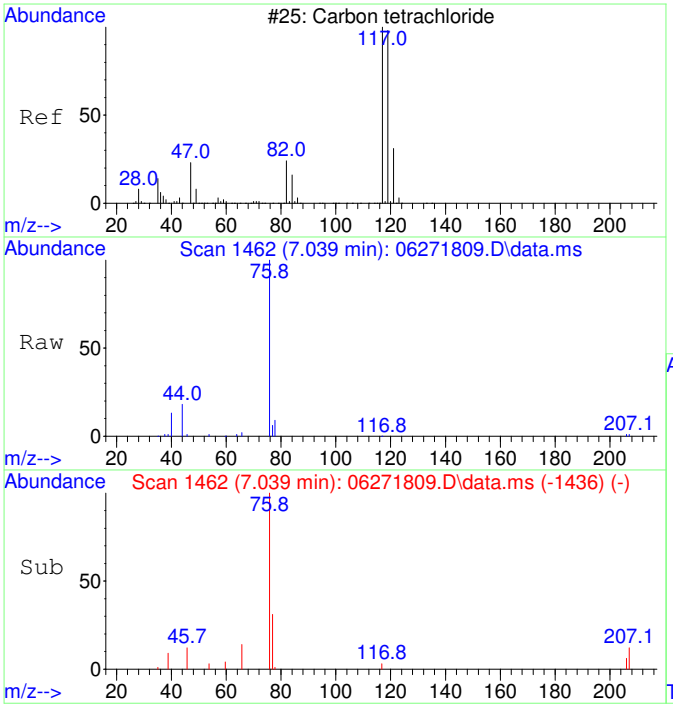


#31
1,1,1-Trichloroethane SCAN
Concen: 50.80 ug/L
RT: 6.954 min Scan# 1455
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 215

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	81.4	15.1	75.1#

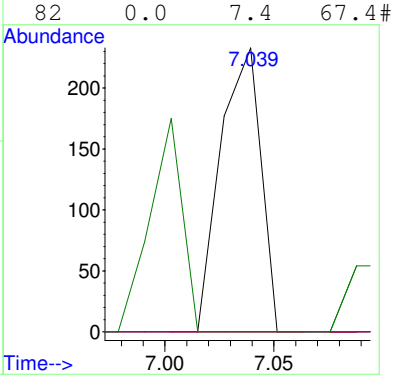


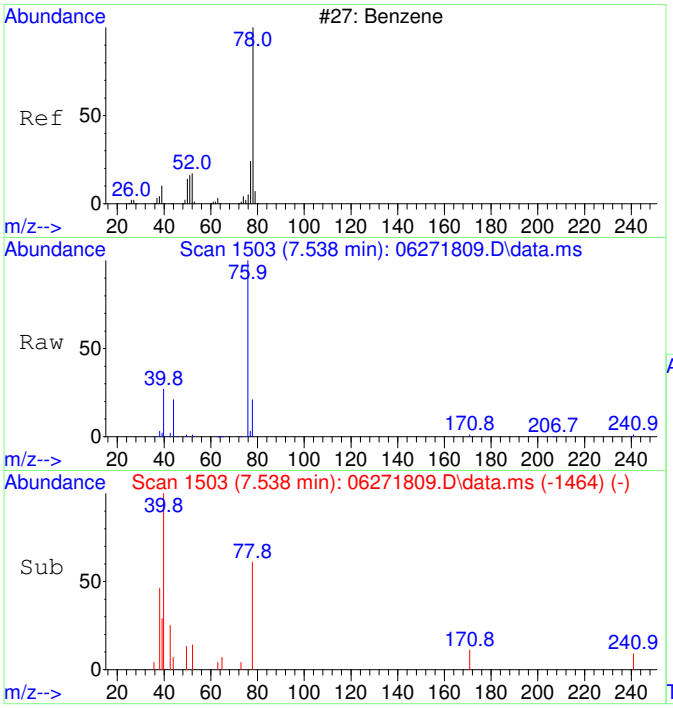


#32
Carbon tetrachloride SCAN
Concen: 71.69 ug/L
RT: 7.039 min Scan# 1462
Delta R.T. -0.183 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:117 Resp: 299

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#

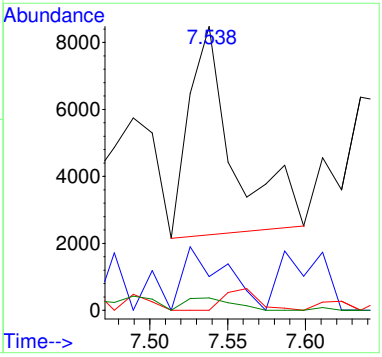


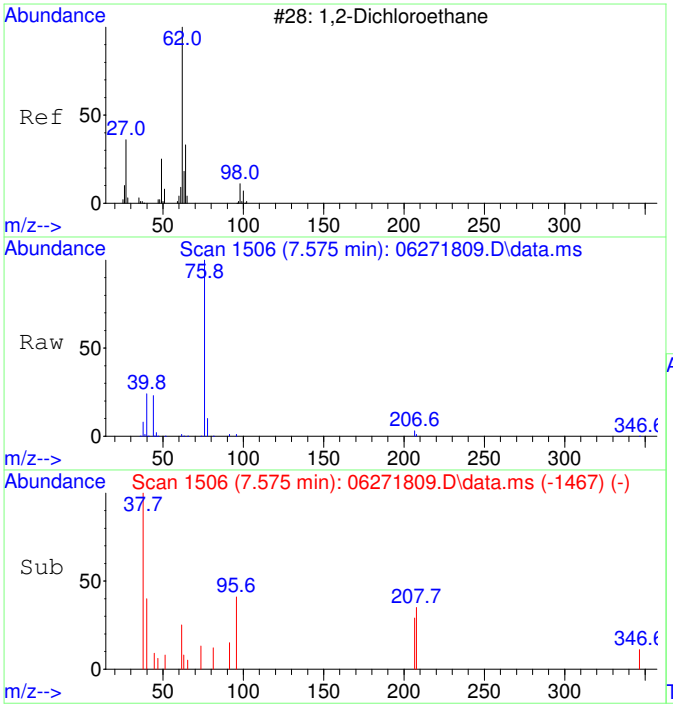


#33
Benzene SCAN
Concen: 985.34 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.025 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 78 Resp: 12437

Ion	Ratio	Lower	Upper
78	100		
77	28.7	3.0	63.0
51	0.0	0.0	56.4
52	6.3	0.0	48.0

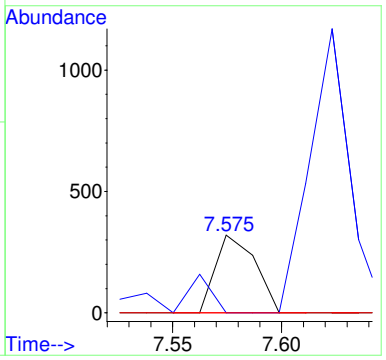


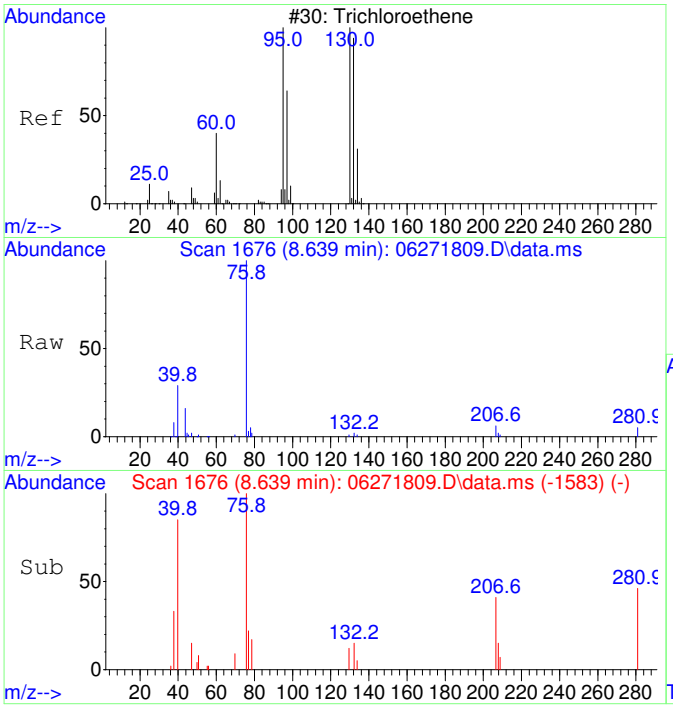


#34
1,2-Dichloroethane SCAN
Concen: 94.32 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. -0.025 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 62 Resp: 406

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

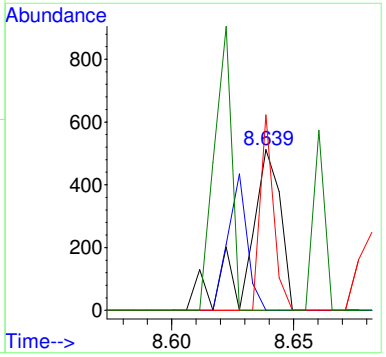


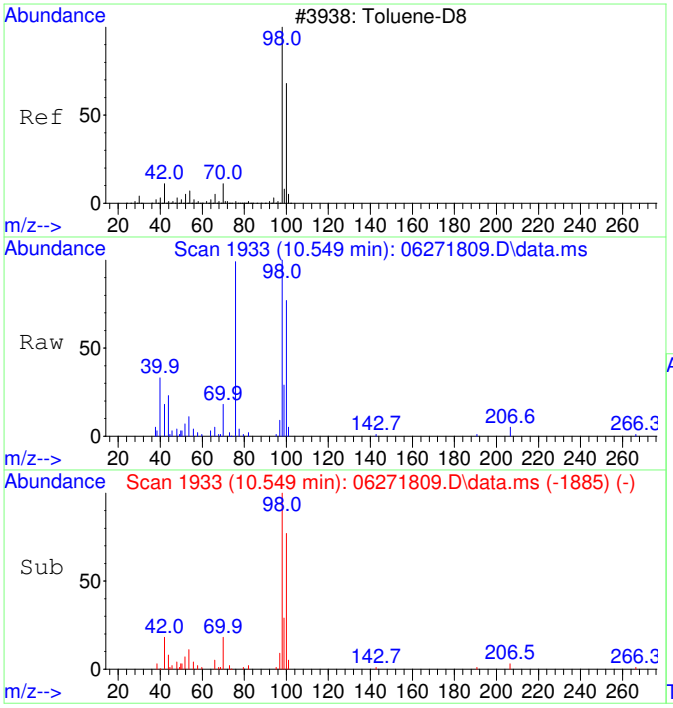


#35
Trichloroethene SCAN
Concen: 154.43 ug/L
RT: 8.639 min Scan# 1676
Delta R.T. 0.005 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:130 Resp: 477

Ion	Ratio	Lower	Upper
130	100		
95	50.1	70.5	130.5#
132	49.7	63.8	123.8#
97	94.1	34.8	94.8

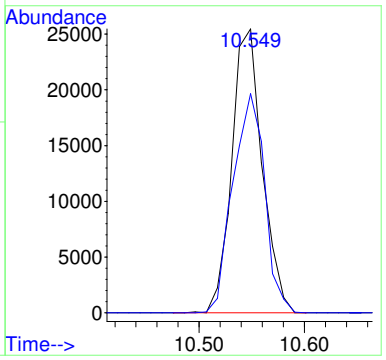


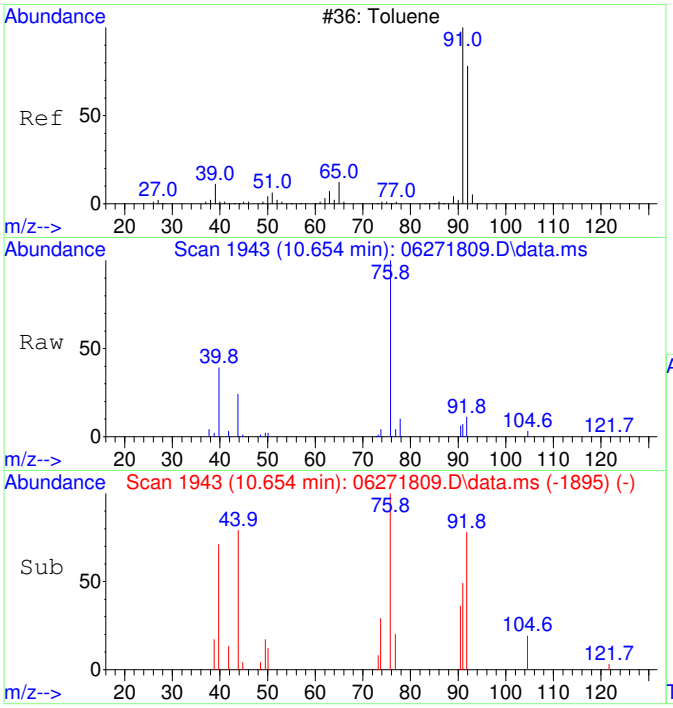


#36
Toluene-d8 SCAN
Concen: 4677.28 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 98 Resp: 51245

Ion	Ratio	Lower	Upper
98	100		
100	80.7	39.5	99.5

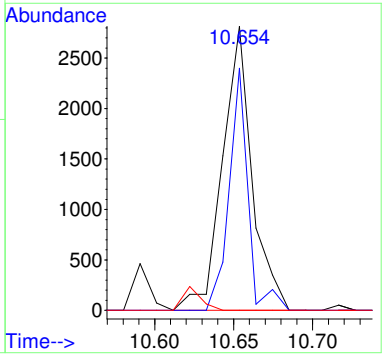


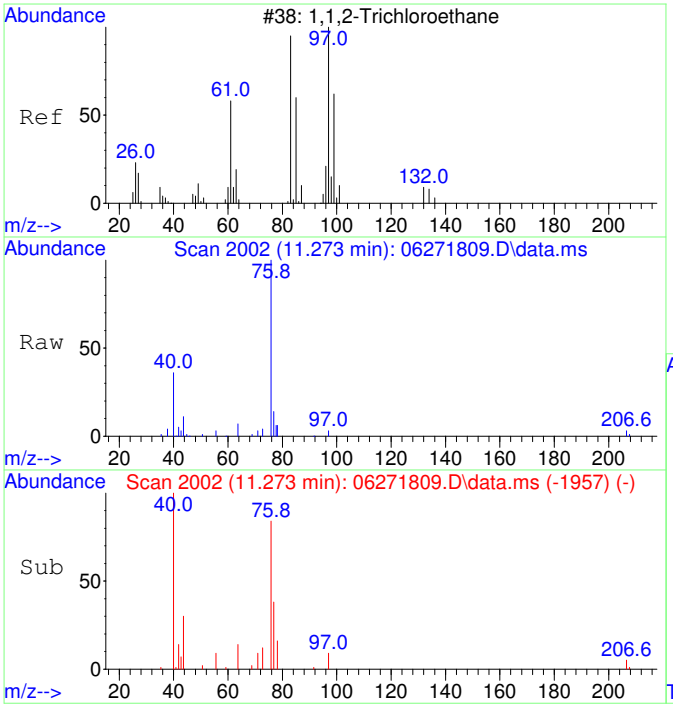


#37
Toluene SCAN
Concen: 262.23 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 3670

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.6	86.6
65	0.0	0.0	42.3

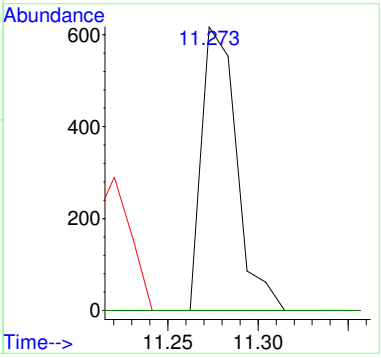


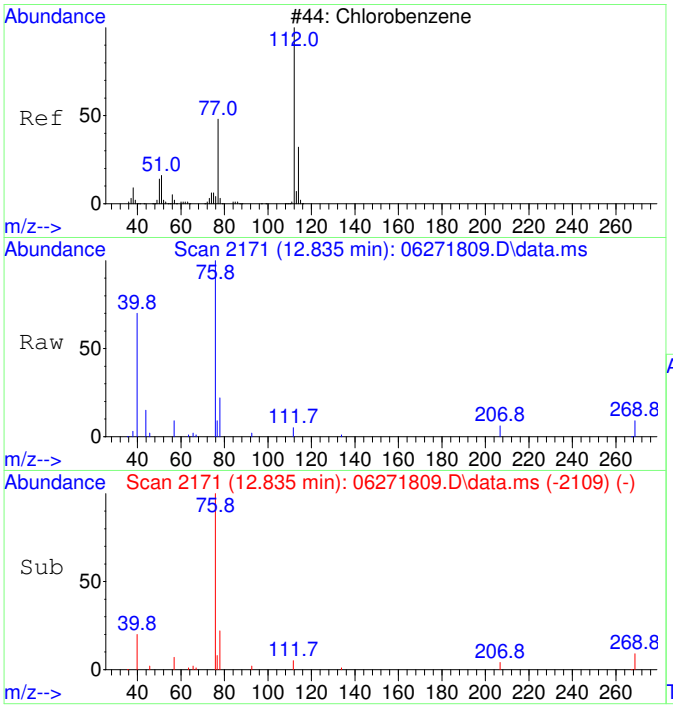


#38
1,1,2-Trichloroethane SCAN
Concen: 309.49 ug/L
RT: 11.273 min Scan# 2002
Delta R.T. -0.032 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 830

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#

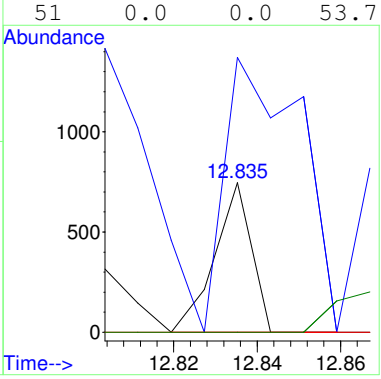


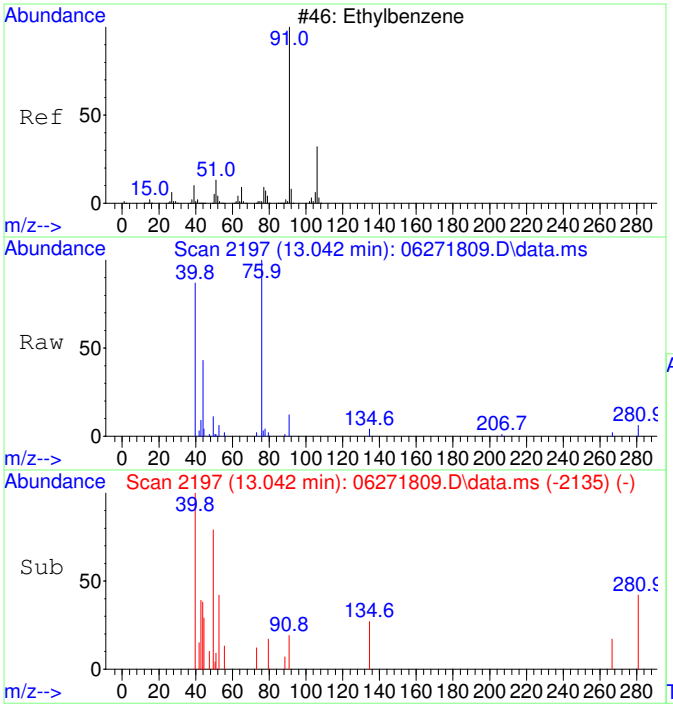


#40
Chlorobenzene SCAN
Concen: 53.95 ug/L
RT: 12.835 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:112 Resp: 458

Ion	Ratio	Lower	Upper
112	100		
77	376.2	28.4	88.4#
114	0.0	0.0	59.5
51	0.0	0.0	53.7

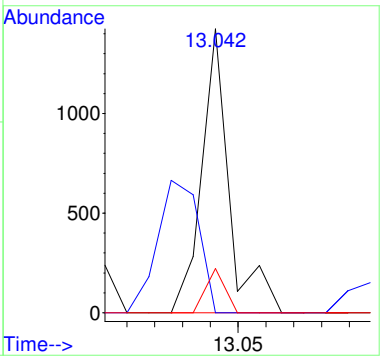


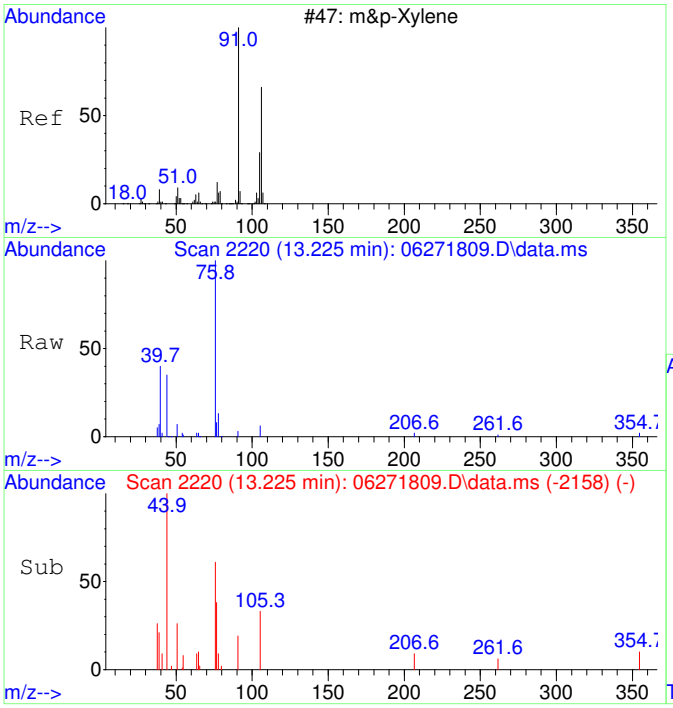


#42
Ethylbenzene SCAN
Concen: 60.12 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 978

Ion	Ratio	Lower	Upper
91	100		
106	70.0	3.2	63.2#
51	10.8	0.0	40.1

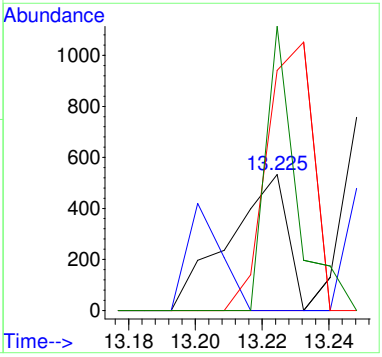


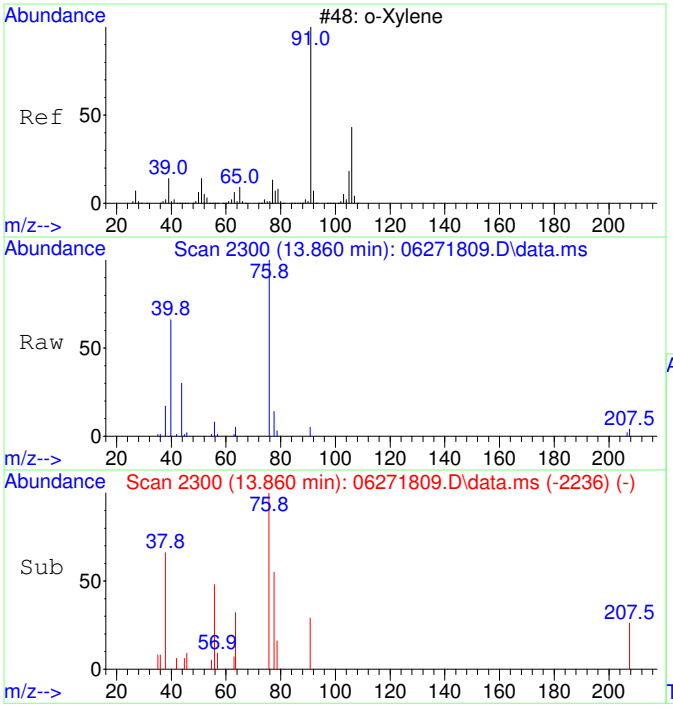


#43
m&p-Xylene SCAN
Concen: 28.79 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 650

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	156.5	0.0	51.1#
51	108.9	0.0	40.7#

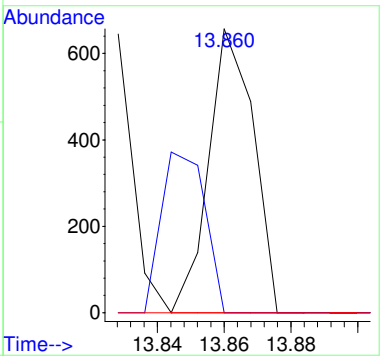


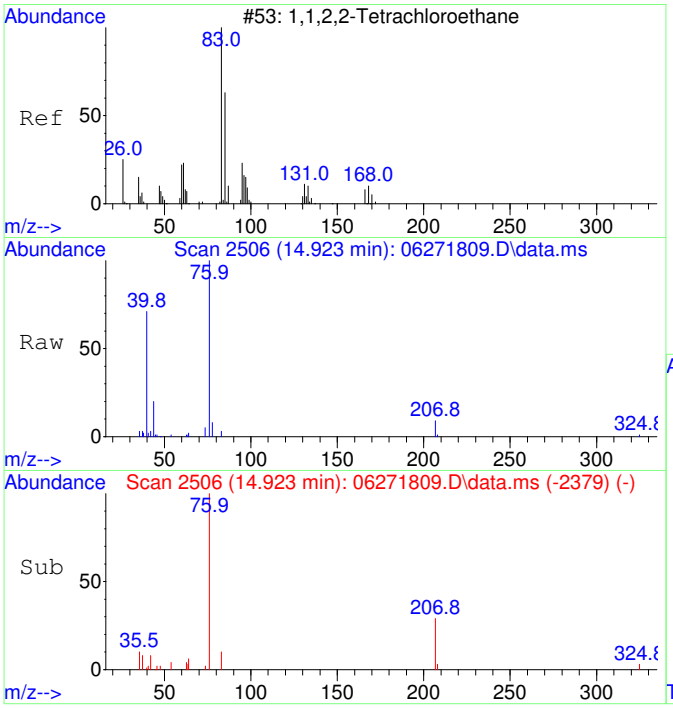


#44
o-Xylene SCAN
Concen: 47.62 ug/L
RT: 13.860 min Scan# 2300
Delta R.T. 0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 612

Ion	Ratio	Lower	Upper
91	100		
106	55.6	21.3	81.3
105	0.0	0.0	55.2

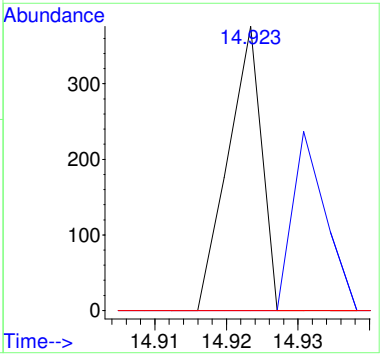


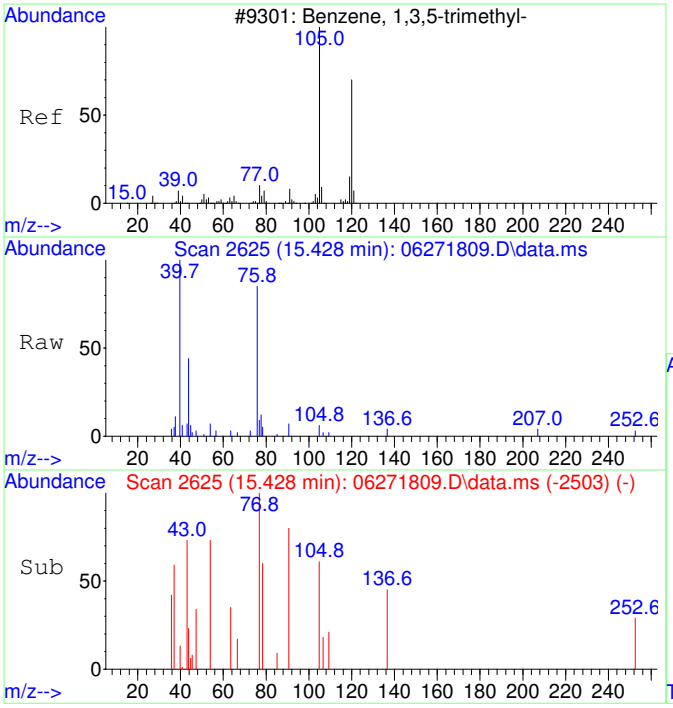


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 20.19 ug/L
RT: 14.923 min Scan# 2506
Delta R.T. -0.030 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 123

Ion	Ratio	Lower	Upper
83	100		
85	61.8	31.6	91.6
95	0.0	0.0	49.0

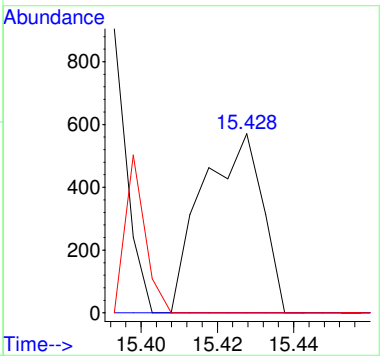


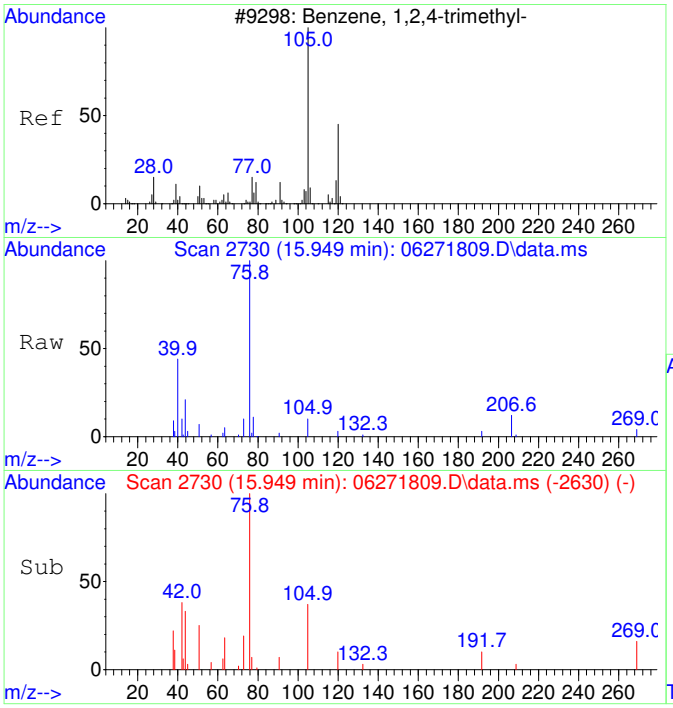


#46
1,3,5-Trimethylbenzene SCAN
Concen: 48.81 ug/L
RT: 15.428 min Scan# 2625
Delta R.T. 0.015 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 622

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

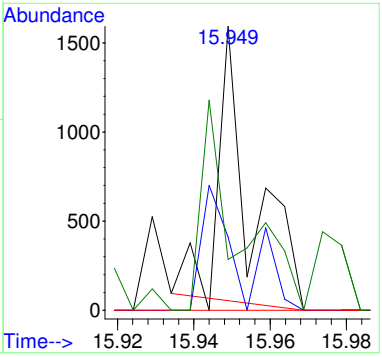




#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.68 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. -0.005 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 923

Ion	Ratio	Lower	Upper
105	100		
120	35.9	15.4	75.4
119	0.0	0.0	41.7
77	85.0	0.0	42.0#



1806075-01

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271810.D
Acq On : 27 Jun 2018 13:04
InstName : AG5975C
Operator : TD
Sample : 1806075-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 13:24:20 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

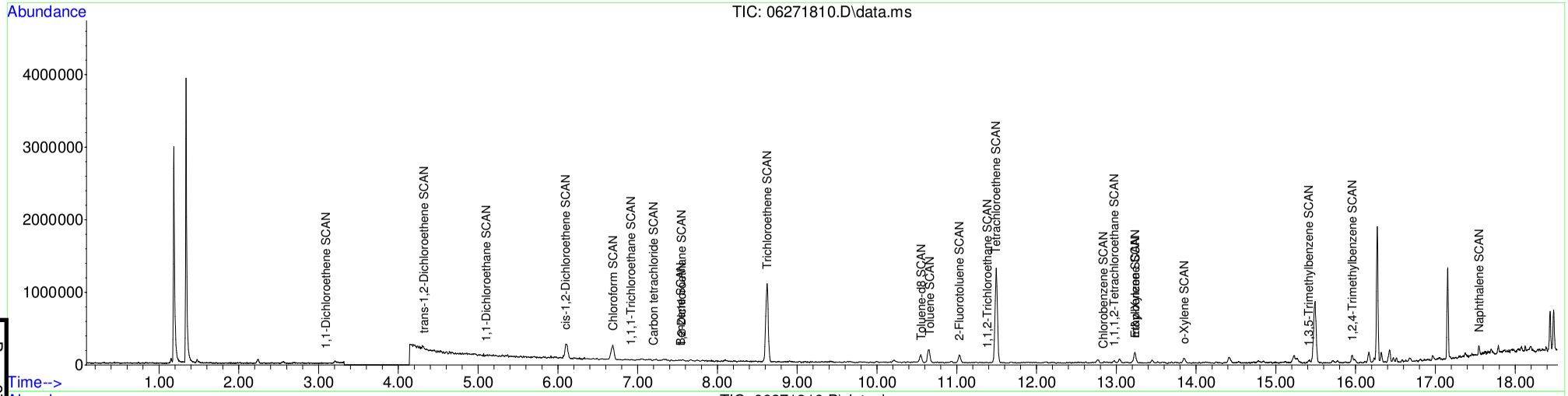
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	141743	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	120507	5234.12 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.68%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	1341	225.75 ug/L	76
3] trans-1,2-Dichloroethene	4.309	61	19646	3099.65 ug/L	99
5] cis-1,2-Dichloroethene	6.101	61	228719	29389.53 ug/L oc	100
6] Chloroform	6.676	83	275821	32915.41 ug/L oc	100
7] 1,1,1-Trichloroethane	6.943	97	360	43.65 ug/L	76
8] Carbon tetrachloride	7.211	117	1799	230.26 ug/L	96
9] Benzene	7.552	78	10535	462.91 ug/L	89
10] 1,2-Dichloroethane	7.588	62	458	62.44 ug/L #	1
11] Trichloroethene	8.618	130	666861	106614.15 ug/L oc	100
13] Toluene	10.645	91	244558	7922.35 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	1614	252.96 ug/L #	18
15] Tetrachloroethene	11.495	166	785978	90370.50 ug/L oc	99
16] Chlorobenzene	12.829	112	647	29.37 ug/L	69
17] 1,1,1,2-Tetrachloroethane	12.972	131	284	37.98 ug/L	70
18] Ethylbenzene	13.035	91	53047	1431.97 ug/L	99
19] m&p-Xylene	13.226	91	154813	5414.64 ug/L	100
20] o-Xylene	13.845	91	70899	2341.38 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.932	83	630	48.31 ug/L #	22
22] 1,3,5-Trimethylbenzene	15.414	105	36334	1060.48 ug/L	97
23] 1,2,4-Trimethylbenzene	15.955	105	89828	2621.04 ug/L	99
24] Naphthalene	17.933	128	1520	27.03 ug/L #	6
25) 2-Fluorotoluene SCAN	11.032	109	88201	5340.06 ug/L	98
26) 1,1-Dichloroethene SCAN	3.096	61	175	42.46 ug/L #	1
27) trans-1,2-Dichloroethe...	4.321	61	15222	3172.41 ug/L	81
28) 1,1-Dichloroethane SCAN	5.098	63	196	32.11 ug/L #	1
29) cis-1,2-Dichloroethene...	6.099	61	153500	29076.34 ug/L	86
30) Chloroform SCAN	6.687	83	175899	27145.33 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	128	22.19 ug/L #	26
32) Carbon tetrachloride SCAN	7.198	117	1135	199.70 ug/L #	42
33) Benzene SCAN	7.538	78	9476	550.88 ug/L	79
34) 1,2-Dichloroethane SCAN	7.550	62	535	91.20 ug/L #	39
35) Trichloroethene SCAN	8.622	130	408176	96969.30 ug/L	99
36) Toluene-d8 SCAN	10.549	98	83749	5609.01 ug/L	82
37) Toluene SCAN	10.654	91	159136	8343.50 ug/L	97
38) 1,1,2-Trichloroethane ...	11.378	97	575	157.33 ug/L #	10
39) Tetrachloroethene SCAN	11.493	166	443948	106072.13 ug/L	93
40) Chlorobenzene SCAN	12.835	112	285	24.63 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.970	131	642	155.45 ug/L #	23
42) Ethylbenzene SCAN	13.233	91	97096	4379.58 ug/L	79
43) m&p-Xylene SCAN	13.233	91	97096	3155.18 ug/L	96
44) o-Xylene SCAN	13.852	91	44836	2559.83 ug/L	97
46) 1,3,5-Trimethylbenzene...	15.413	105	21833	1257.19 ug/L	91
47) 1,2,4-Trimethylbenzene...	15.954	105	54772	3077.44 ug/L	97
48) Naphthalene SCAN	17.550	128	582	22.92 ug/L	39

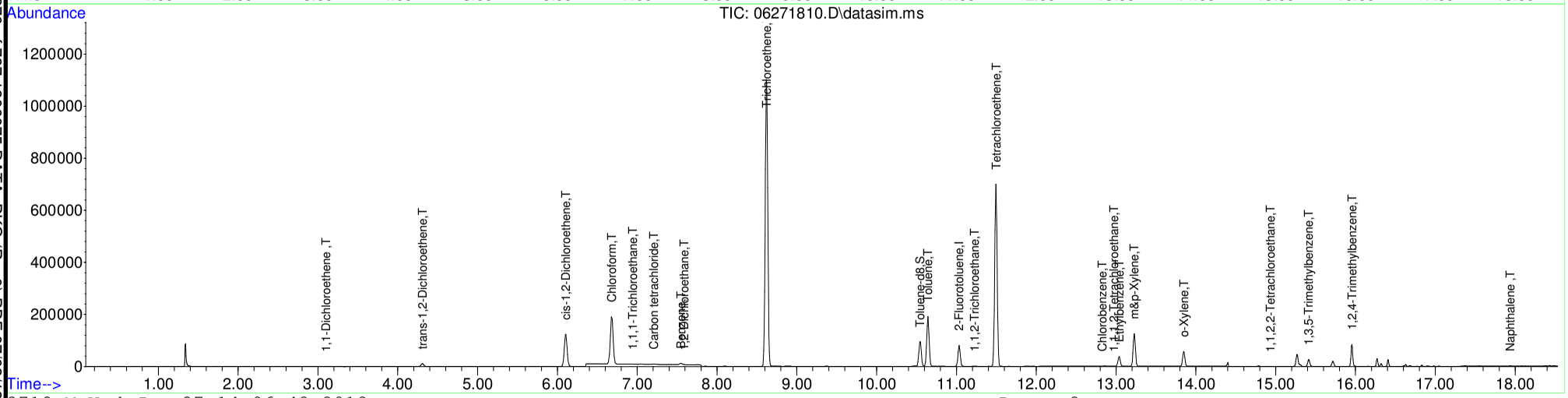
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271810.D
Acq On : 27 Jun 2018 13:04
InstName : AG5975C
Operator : TD
Sample : 1806075-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 13:24:20 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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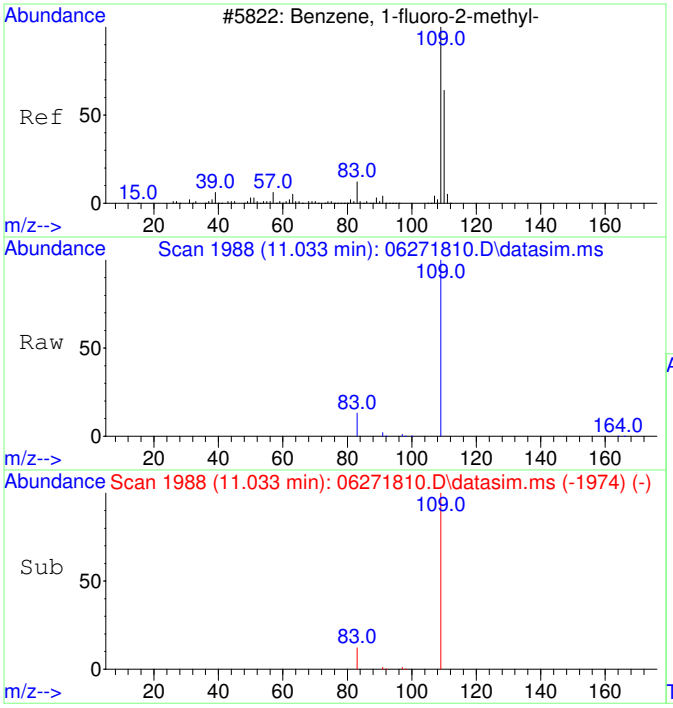
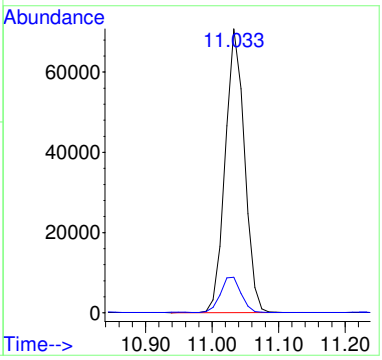
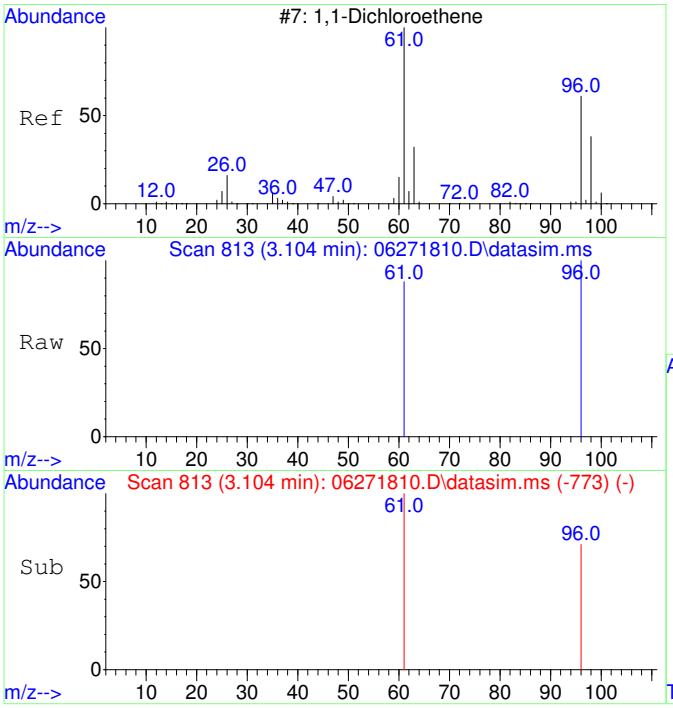


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:109 Resp: 141743

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	44.7

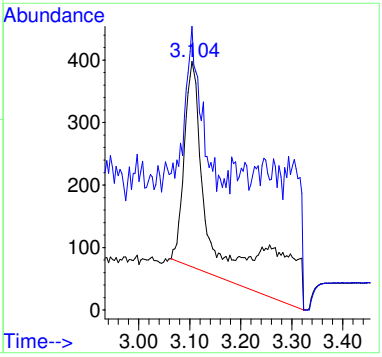




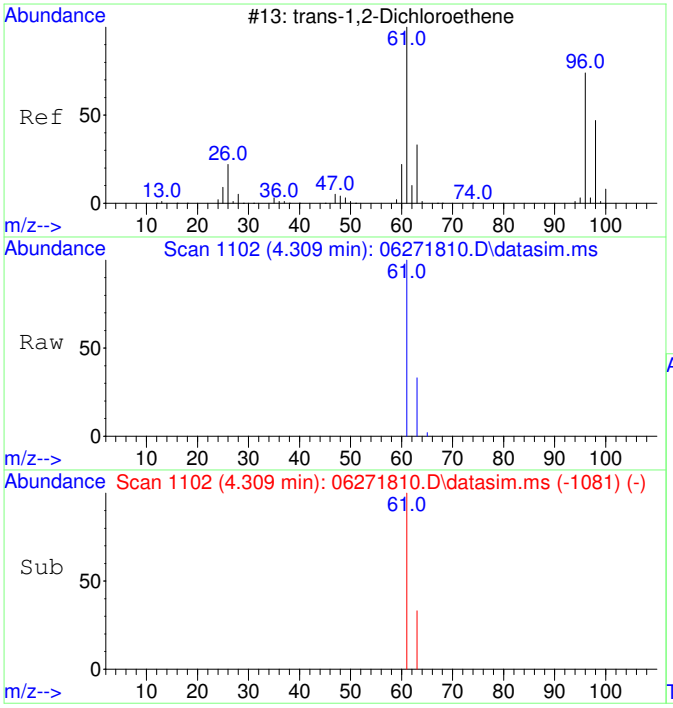
#2
1,1-Dichloroethene
Concen: 225.75 ug/L
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 1341

Ion	Ratio	Lower	Upper
61	100		
96	76.9	28.7	88.7



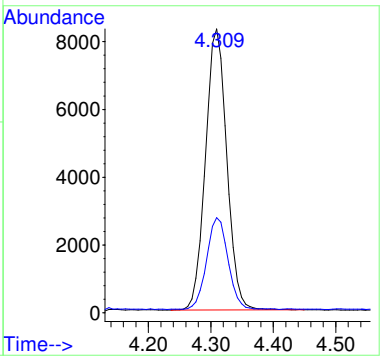
Before MI:
IMPROPER
BASELINE

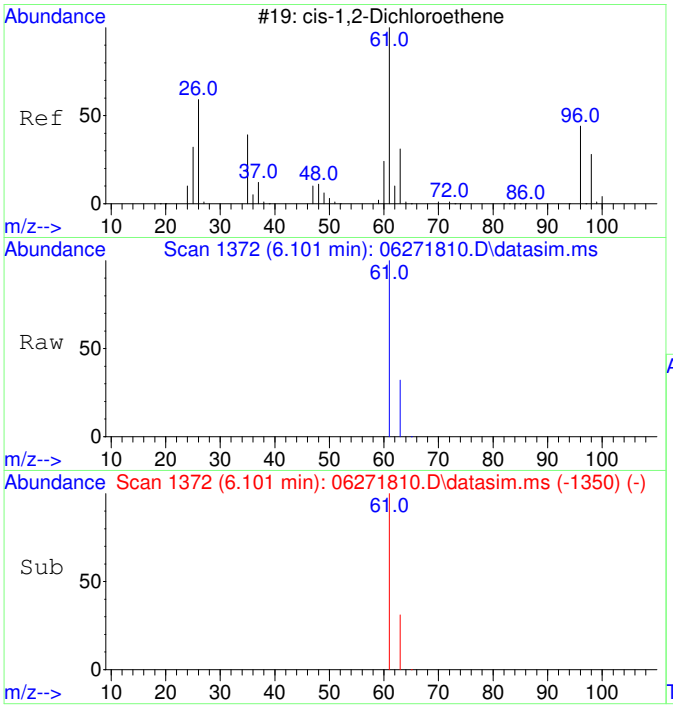


#3
trans-1,2-Dichloroethene
Concen: 3099.65 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 19646

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.0	62.0

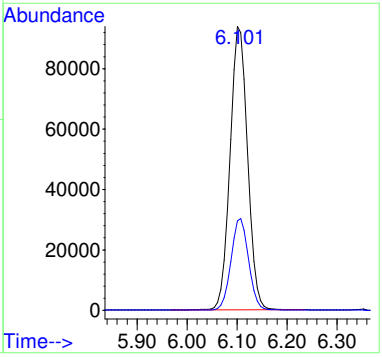


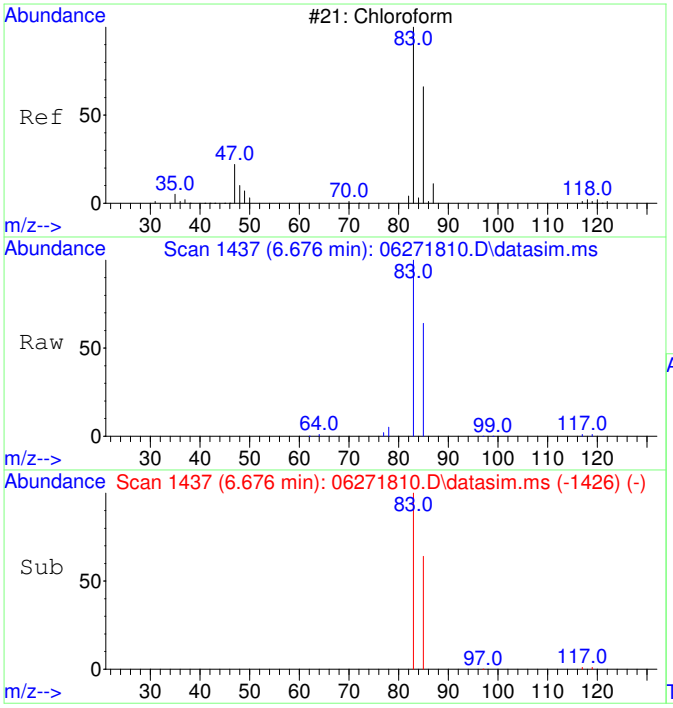


#5
cis-1,2-Dichloroethene
Concen: 29389.53 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 228719

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.2	62.2

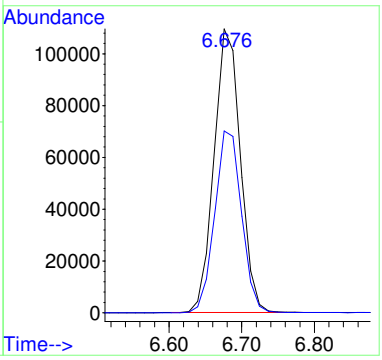


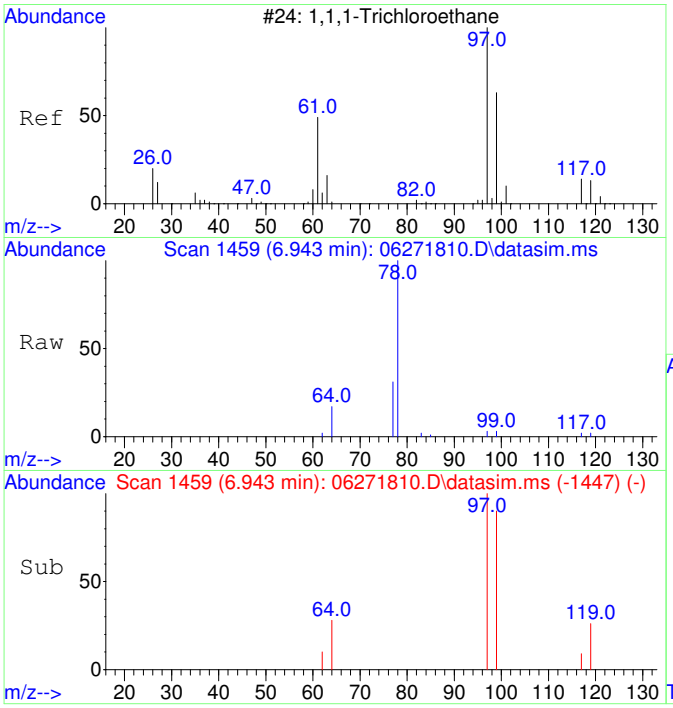


#6
Chloroform
Concen: 32915.41 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 83 Resp: 275821

Ion	Ratio	Lower	Upper
83	100		
85	65.1	34.8	94.8

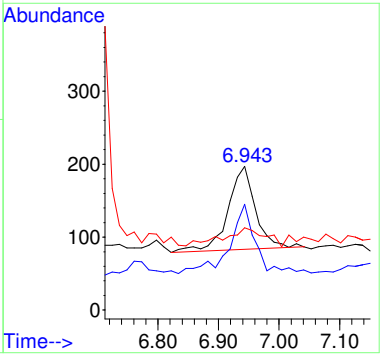


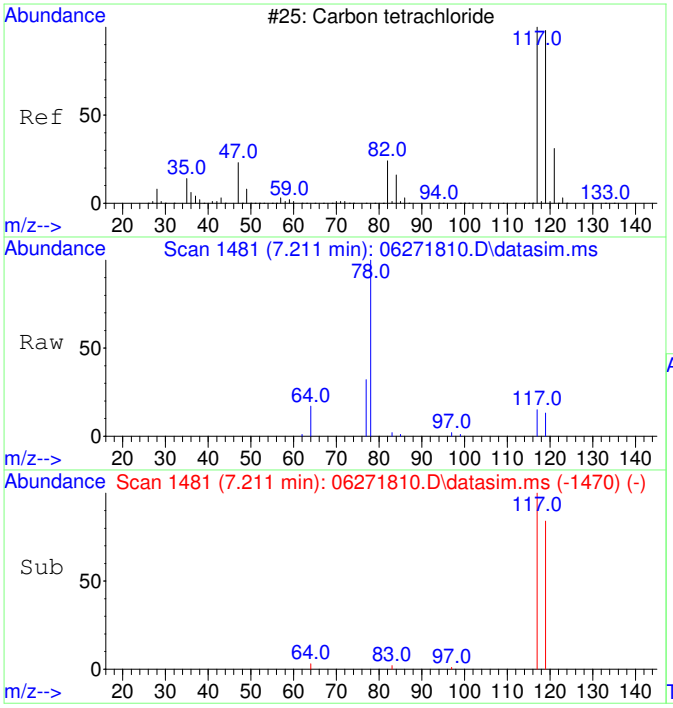


#7
1,1,1-Trichloroethane
Concen: 43.65 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 97 Resp: 360

Ion	Ratio	Lower	Upper
97	100		
99	78.6	34.6	94.6
117	34.2	0.0	42.9

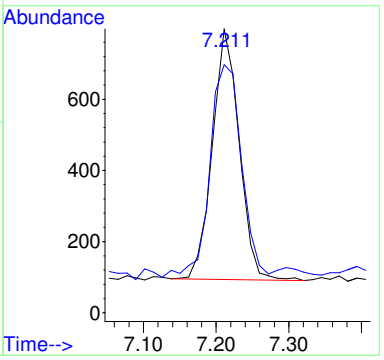


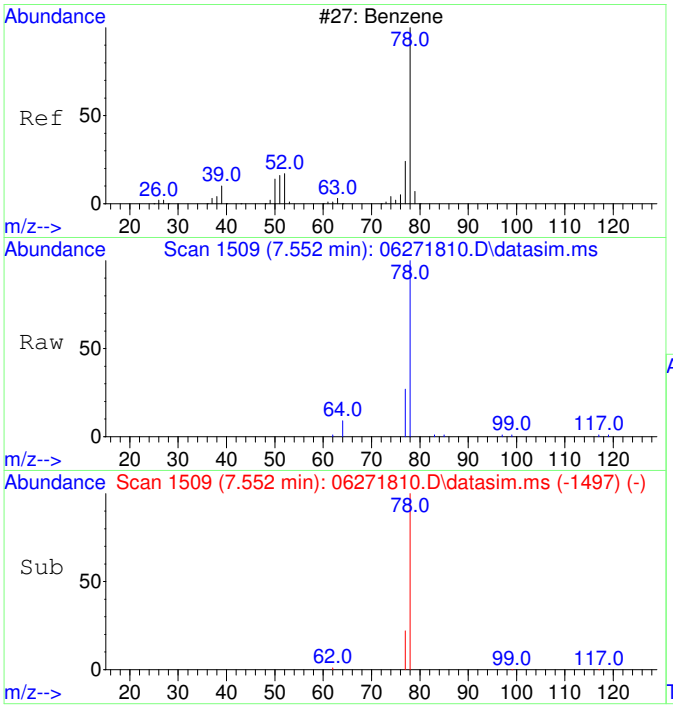


#8
Carbon tetrachloride
Concen: 230.26 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:117 Resp: 1799

Ion	Ratio	Lower	Upper
117	100		
119	100.2	65.9	125.9

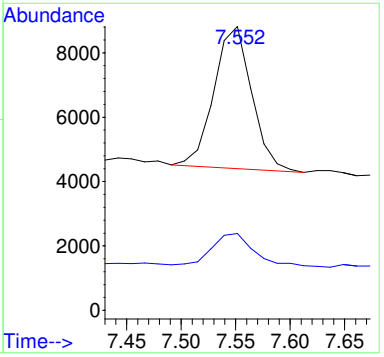


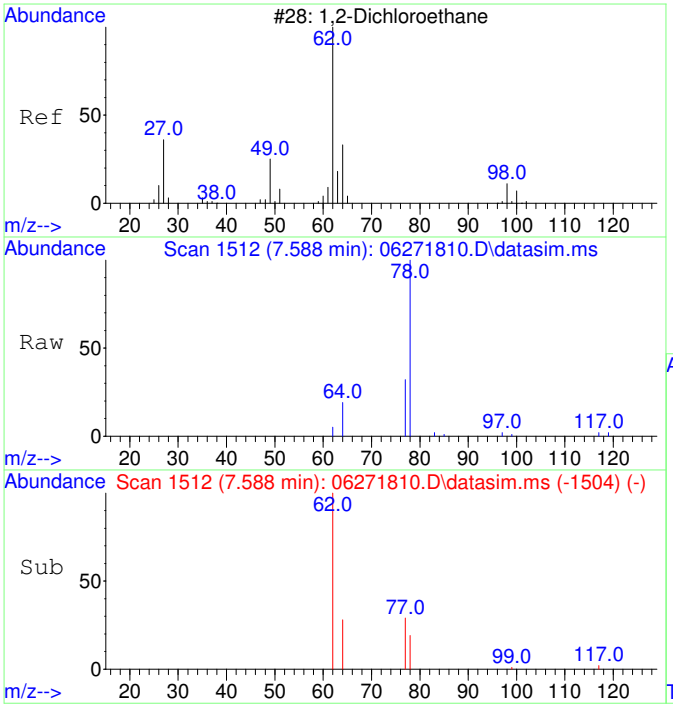


#9
Benzene
Concen: 462.91 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 78 Resp: 10535

Ion	Ratio	Lower	Upper
78	100		
77	28.2	0.0	53.0

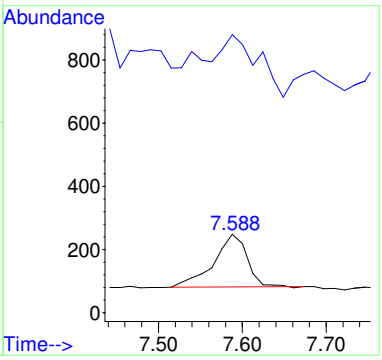


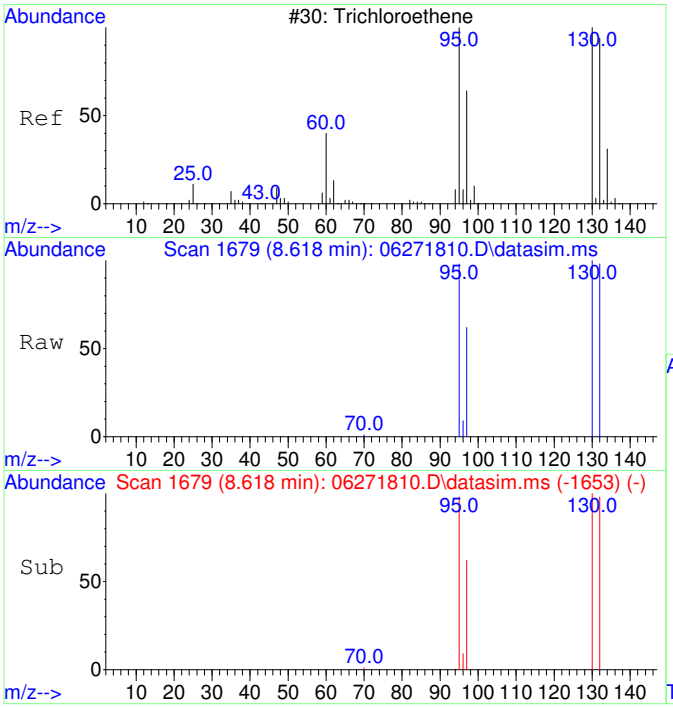


#10
1,2-Dichloroethane
Concen: 62.44 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 62 Resp: 458

Ion	Ratio	Lower	Upper
62	100		
64	205.2	2.3	62.3#

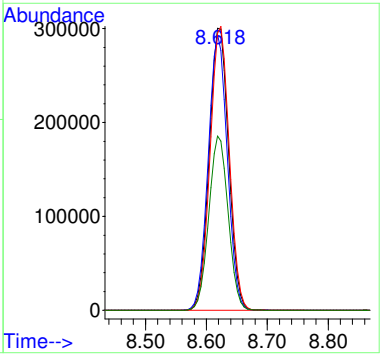


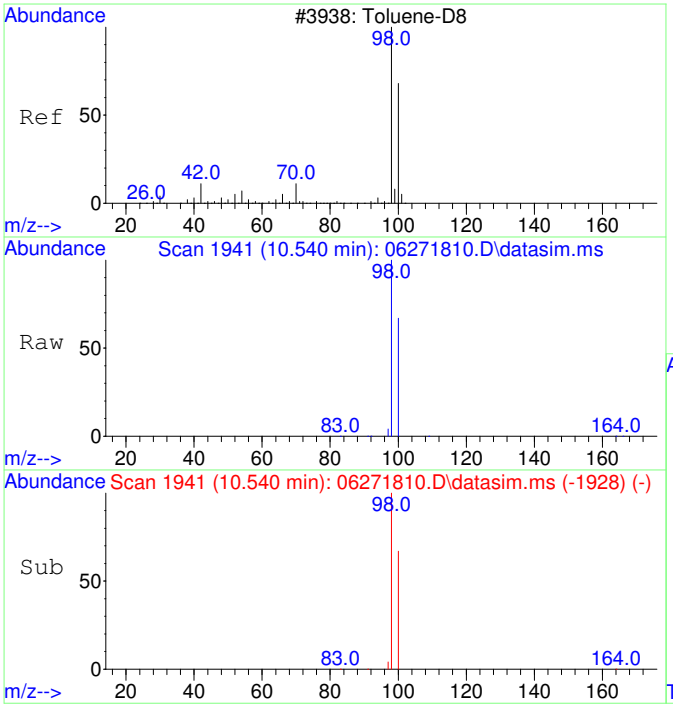


#11
Trichloroethene
Concen: 106614.15 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:130 Resp: 666861

Ion	Ratio	Lower	Upper
130	100		
95	96.0	66.0	126.0
132	99.4	78.8	118.8
97	61.3	41.9	81.9

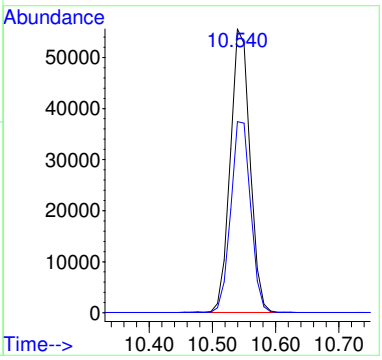


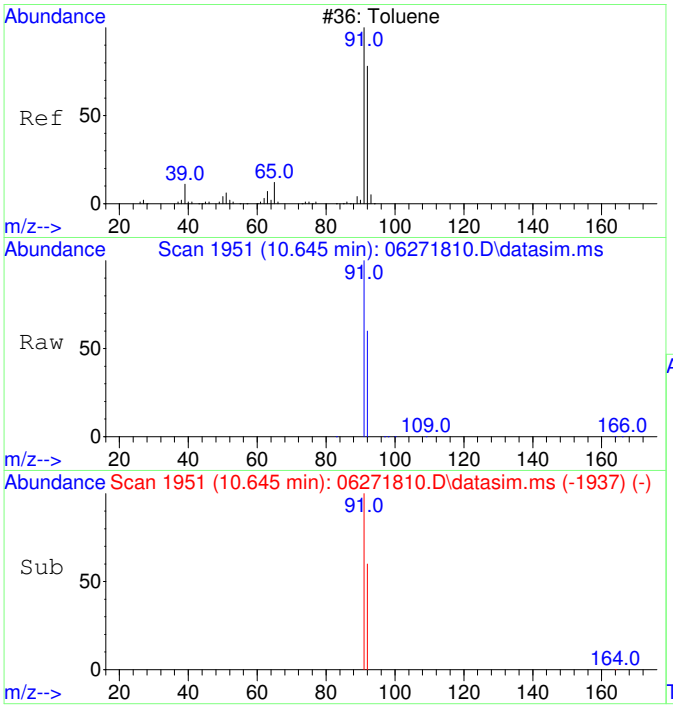


#12
Toluene-d8
Concen: 5234.12 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 98 Resp: 120507

Ion	Ratio	Lower	Upper
98	100		
100	68.0	38.7	98.7

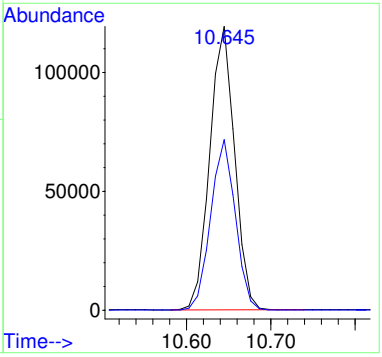


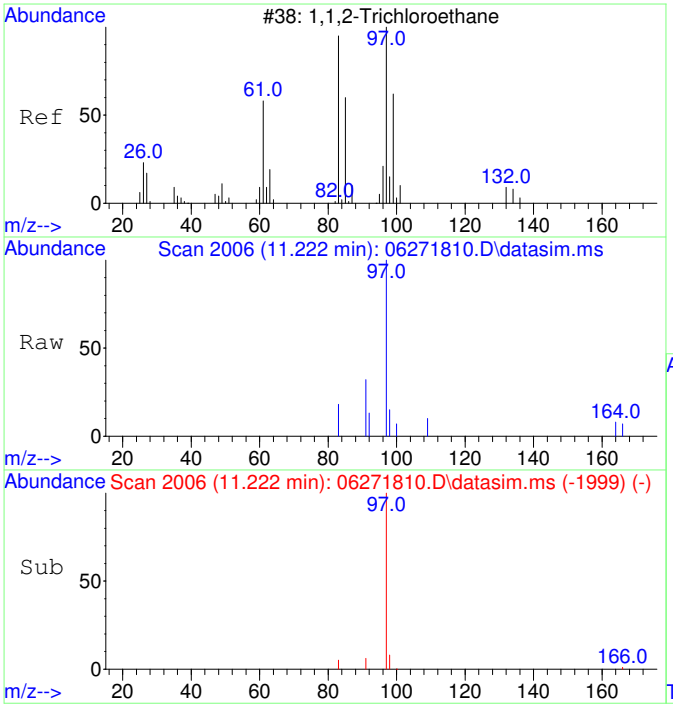


#13
Toluene
Concen: 7922.35 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 244558

Ion	Ratio	Lower	Upper
91	100		
92	59.6	30.0	90.0

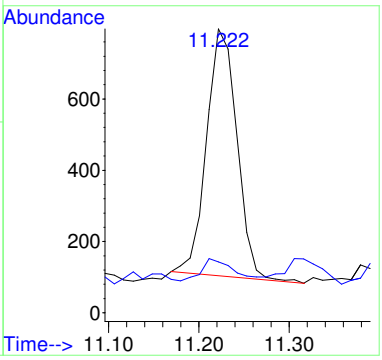


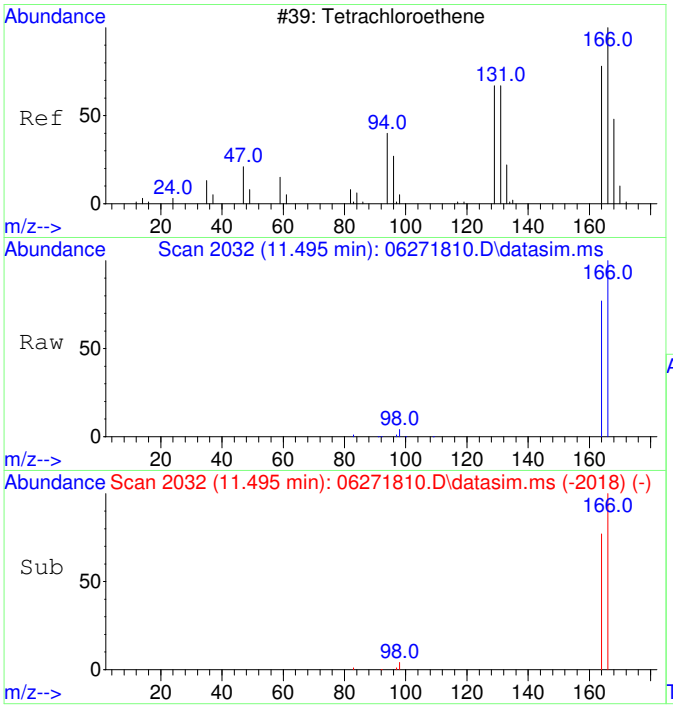


#14
1,1,2-Trichloroethane
Concen: 252.96 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.074 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 97 Resp: 1614

Ion	Ratio	Lower	Upper
97	100		
83	9.0	53.4	113.4#

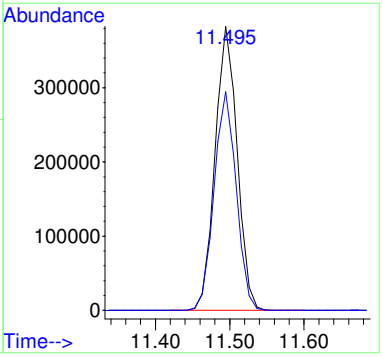


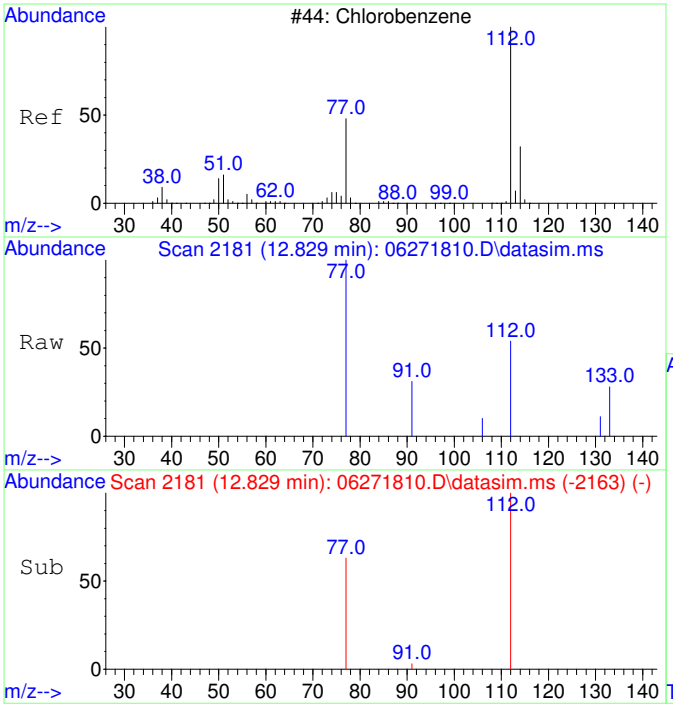


#15
Tetrachloroethene
Concen: 90370.50 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:166 Resp: 785978

Ion	Ratio	Lower	Upper
166	100		
164	77.2	47.8	107.8

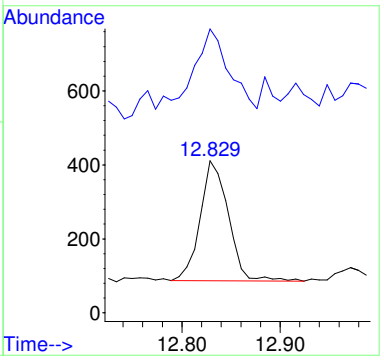


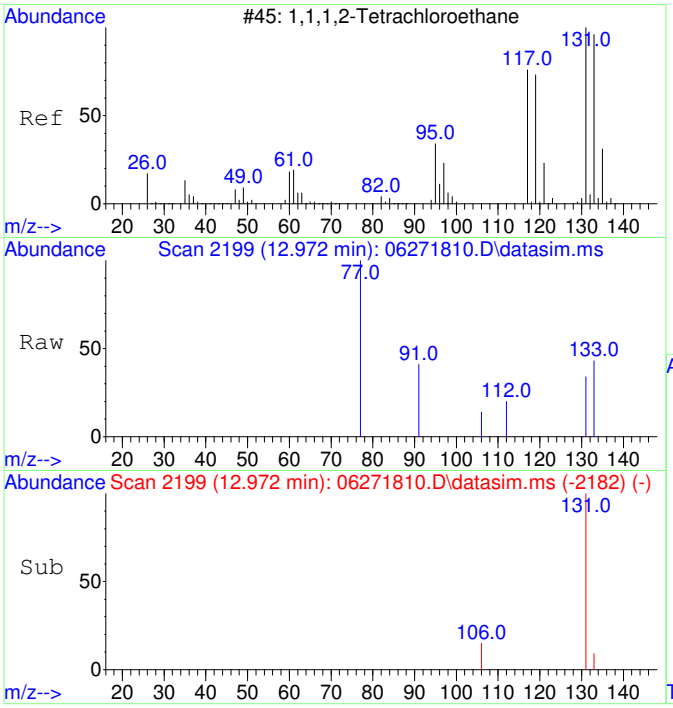


#16
Chlorobenzene
Concen: 29.37 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:112 Resp: 647

Ion	Ratio	Lower	Upper
112	100		
77	81.5	28.1	88.1

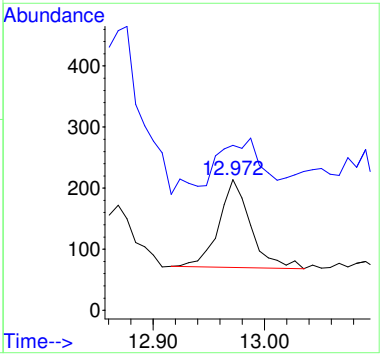


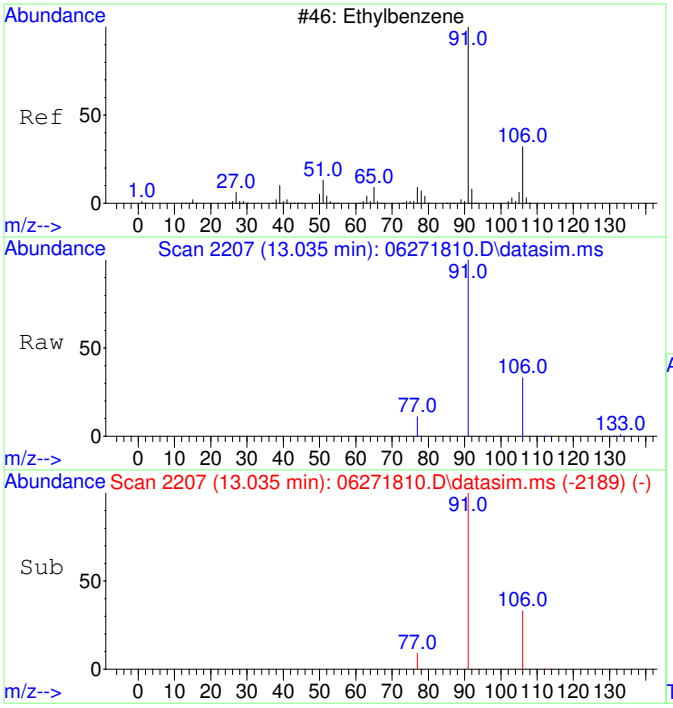


#17
1,1,1,2-Tetrachloroethane
Concen: 37.98 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.016 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:131 Resp: 284

Ion	Ratio	Lower	Upper
131	100		
133	66.5	66.2	126.2

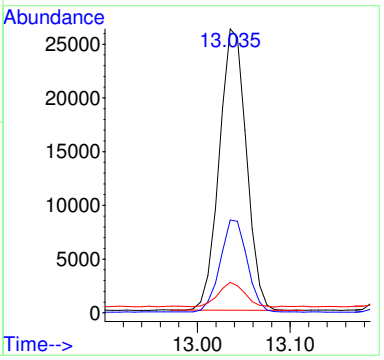


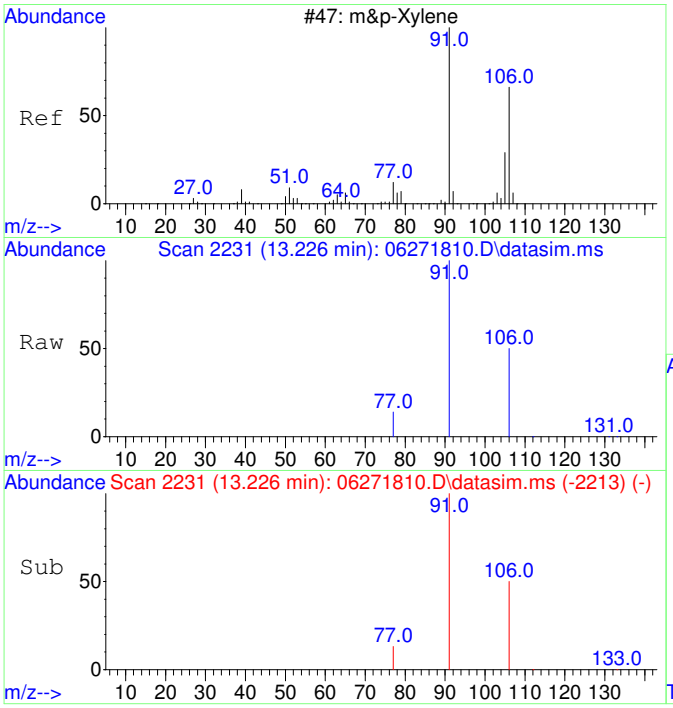


#18
Ethylbenzene
Concen: 1431.97 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 53047

Ion	Ratio	Lower	Upper
91	100		
106	32.5	2.8	62.8
77	8.4	0.0	38.6

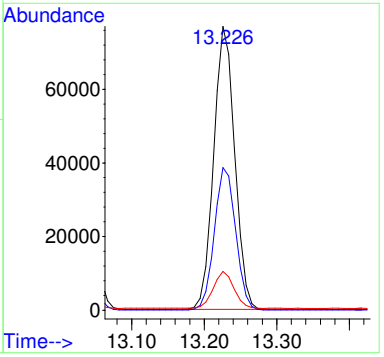


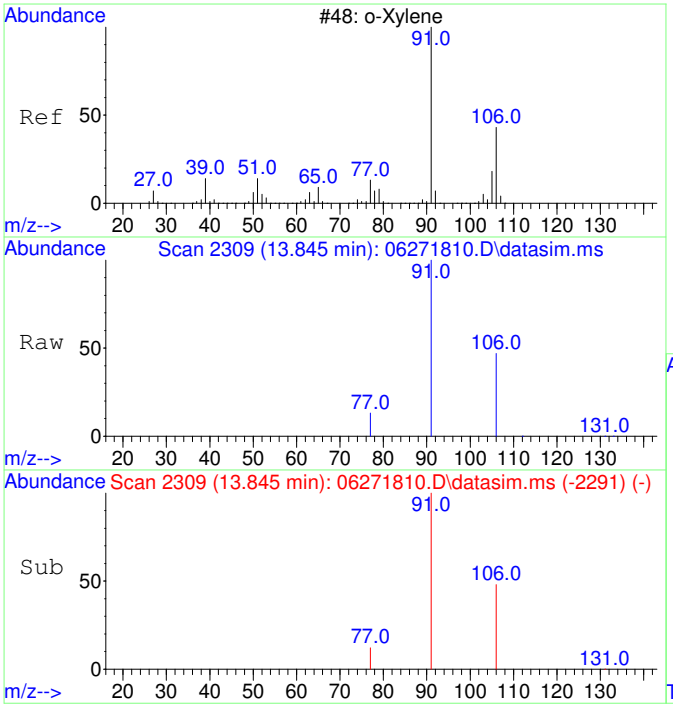


#19
m&p-Xylene
Concen: 5414.64 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 154813

Ion	Ratio	Lower	Upper
91	100		
106	51.0	21.2	81.2
77	12.8	0.0	42.9

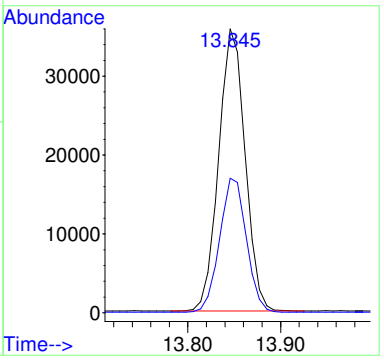


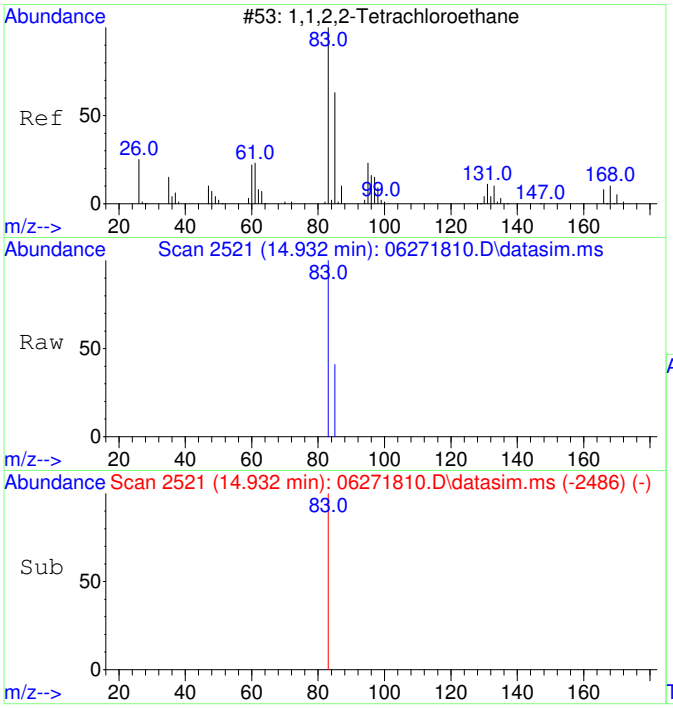


#20
o-Xylene
Concen: 2341.38 ug/L
RT: 13.845 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 70899

Ion	Ratio	Lower	Upper
91	100		
106	48.2	18.3	78.3

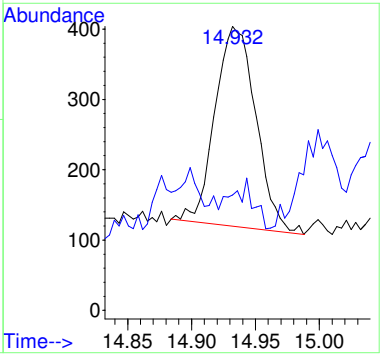


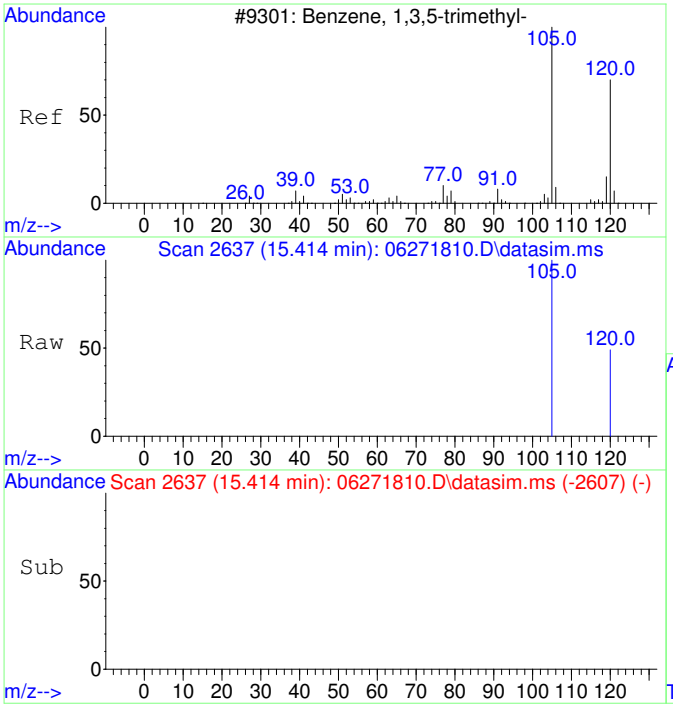


#21
1,1,2,2-Tetrachloroethane
Concen: 48.31 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.019 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 83 Resp: 630

Ion	Ratio	Lower	Upper
83	100		
85	3.3	34.4	94.4#

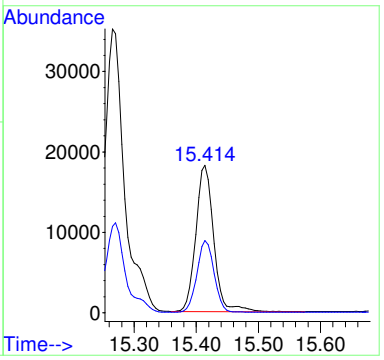


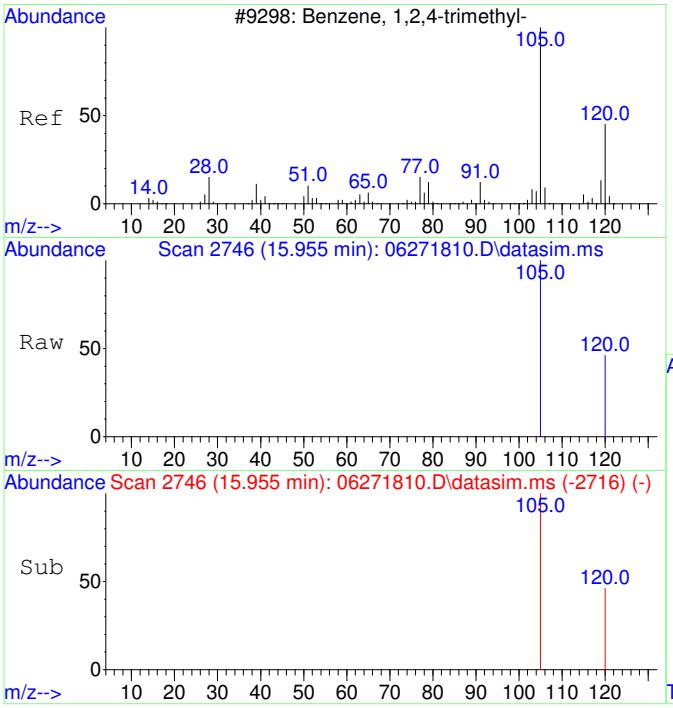


#22
1,3,5-Trimethylbenzene
Concen: 1060.48 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:105 Resp: 36334

Ion	Ratio	Lower	Upper
105	100		
120	47.0	19.1	79.1

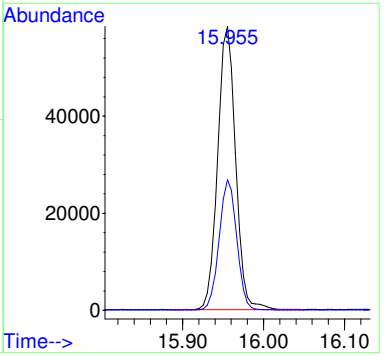


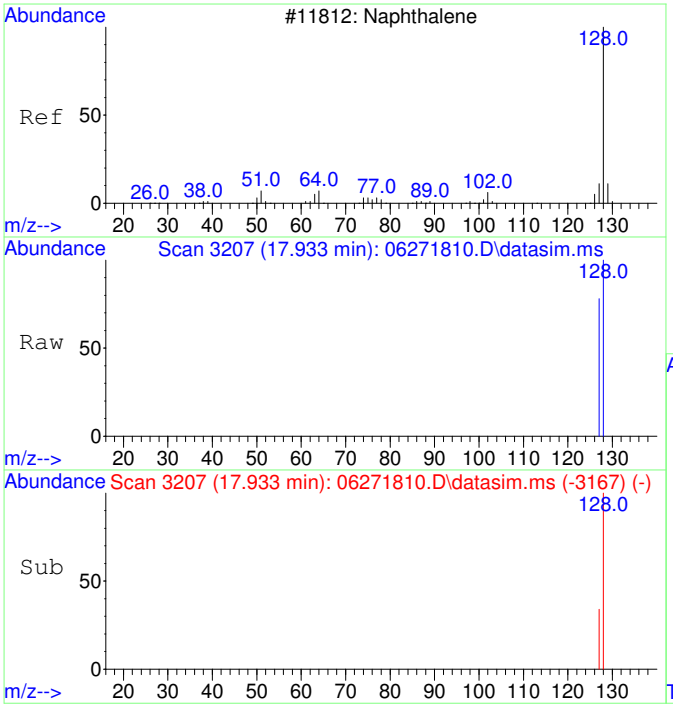


#23
1,2,4-Trimethylbenzene
Concen: 2621.04 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:105 Resp: 89828

Ion	Ratio	Lower	Upper
105	100		
120	44.9	15.5	75.5

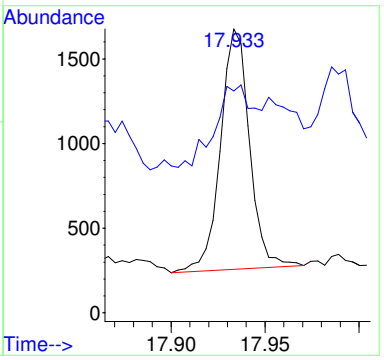


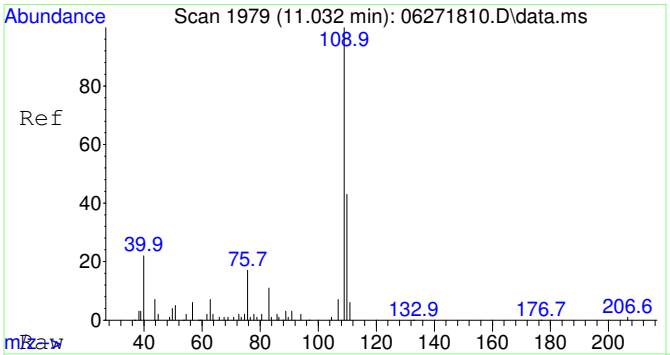


#24
Naphthalene
Concen: 27.03 ug/L
RT: 17.933 min Scan# 3207
Delta R.T. -0.003 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:128 Resp: 1520

Ion	Ratio	Lower	Upper
128	100		
127	49.4	0.0	42.5#

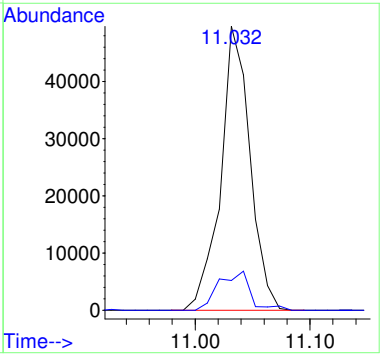


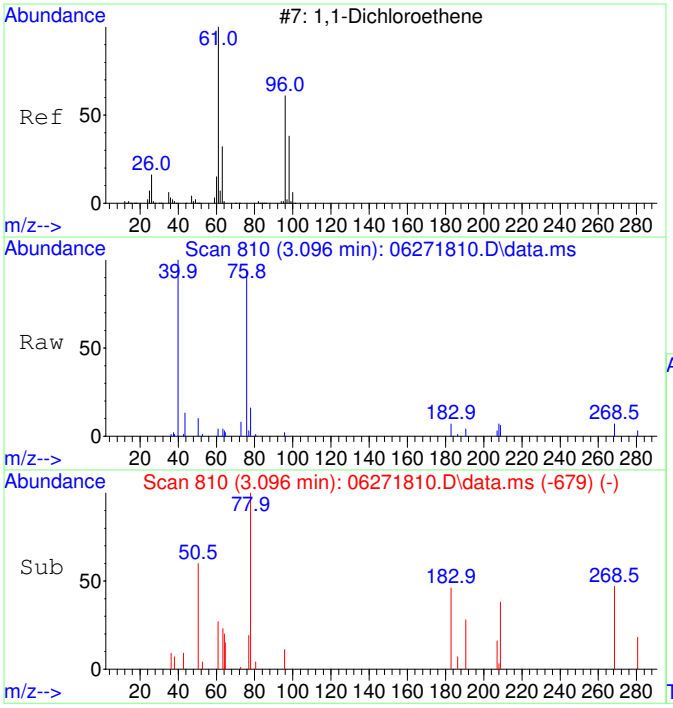


#25
2-Fluorotoluene SCAN
Concen: 5340.06 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:109 Resp: 88201

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	45.7

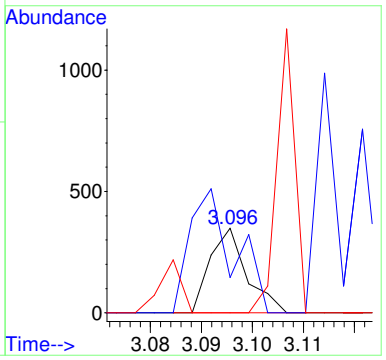


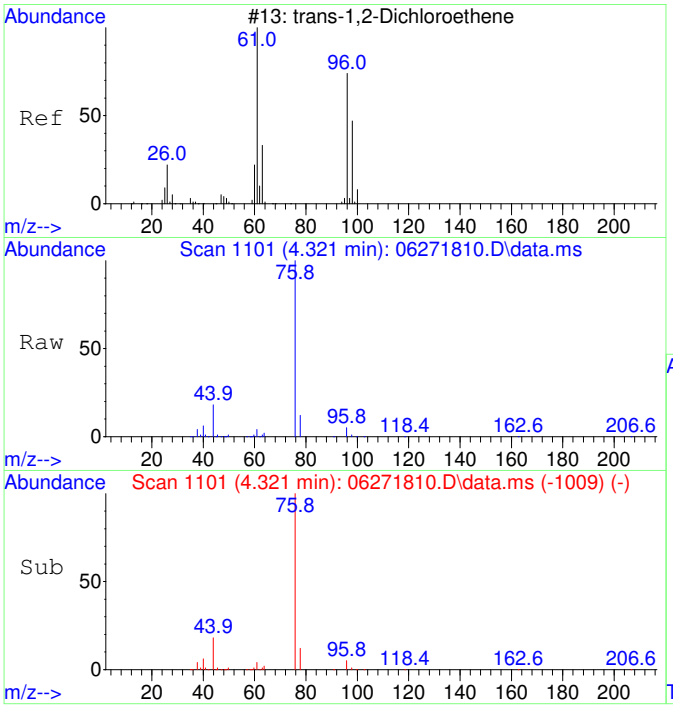


#26
1,1-Dichloroethene SCAN
Concen: 42.46 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.015 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 175

Ion	Ratio	Lower	Upper
61	100		
96	174.9	23.8	83.8#
98	37.1	8.8	68.8

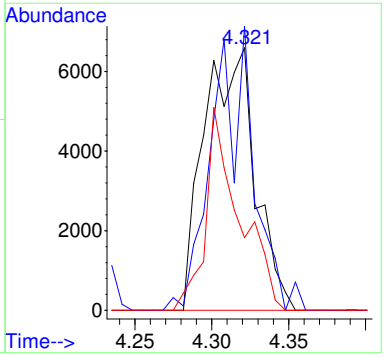


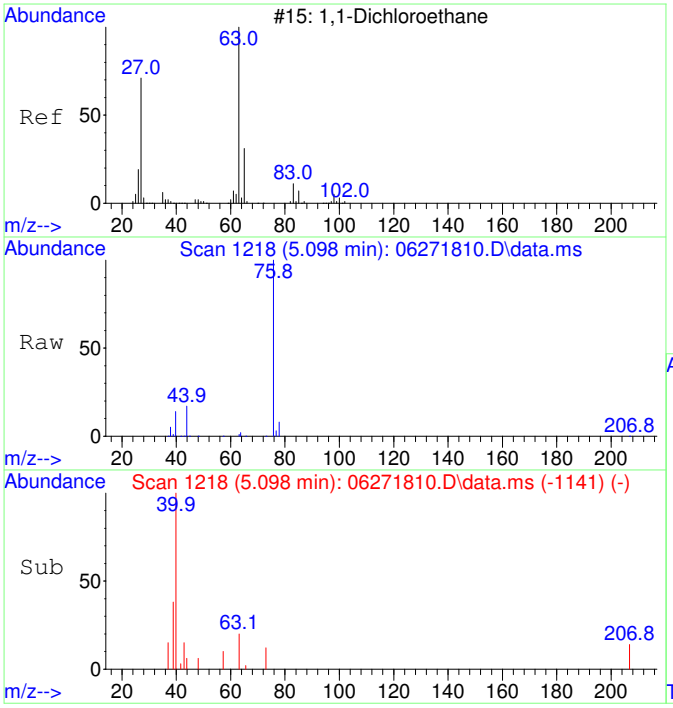


#27
trans-1,2-Dichloroethene SCAN
Concen: 3172.41 ug/L
RT: 4.321 min Scan# 1101
Delta R.T. -0.013 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 15222

Ion	Ratio	Lower	Upper
61	100		
96	86.7	37.9	97.9
98	50.8	12.7	72.7

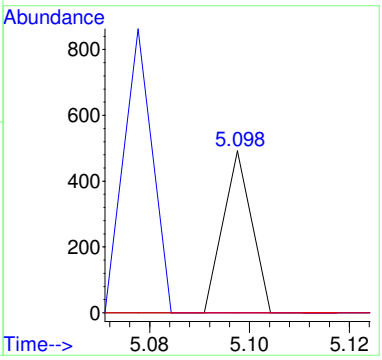


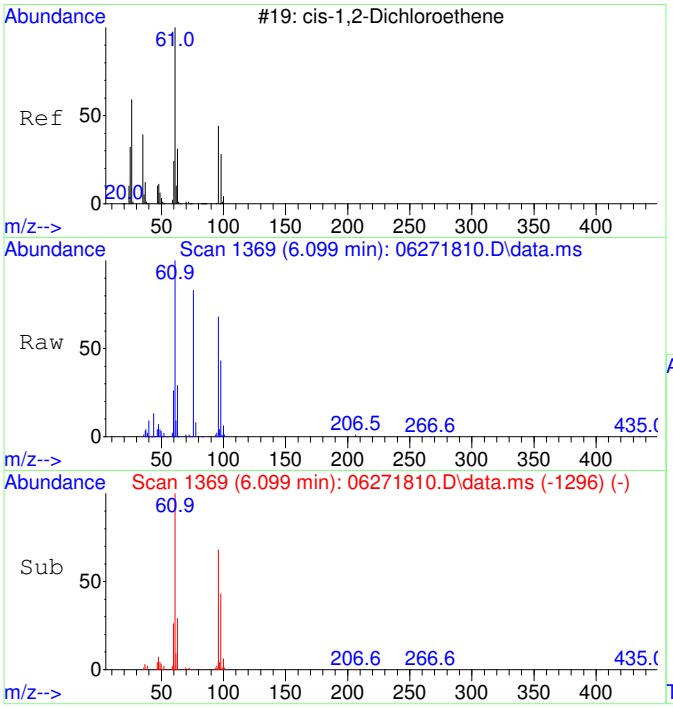


#28
1,1-Dichloroethane SCAN
Concen: 32.11 ug/L
RT: 5.098 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 63 Resp: 196

Ion	Ratio	Lower	Upper
63	100		
65	175.0	7.5	67.5#
83	0.0	0.0	34.3

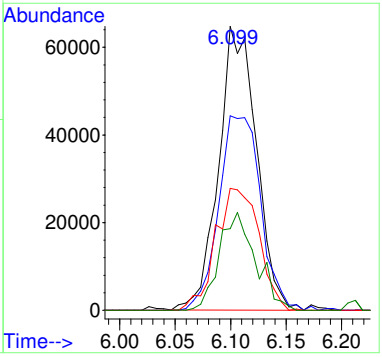


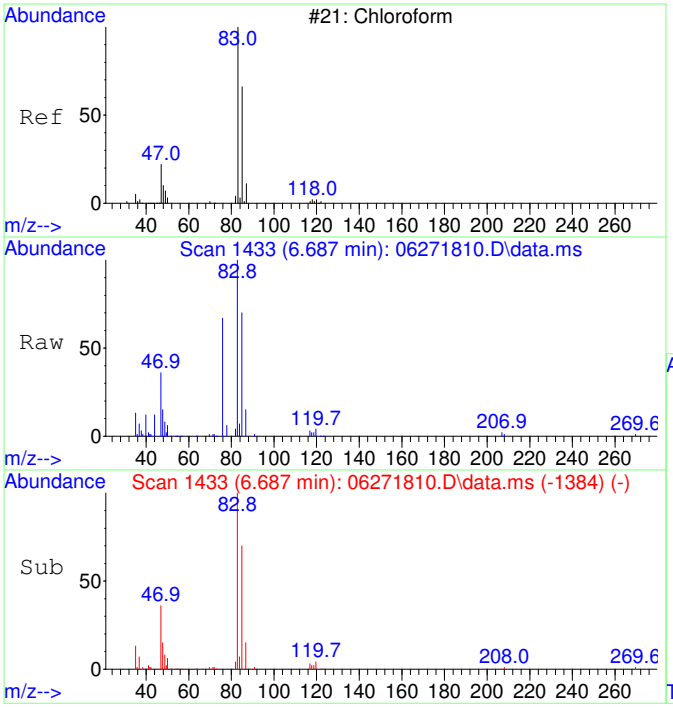


#29
cis-1,2-Dichloroethene SCAN
Concen: 29076.34 ug/L
RT: 6.099 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 153500

Ion	Ratio	Lower	Upper
61	100		
96	76.4	28.2	88.2
98	49.4	14.1	74.1
63	33.4	1.5	61.5

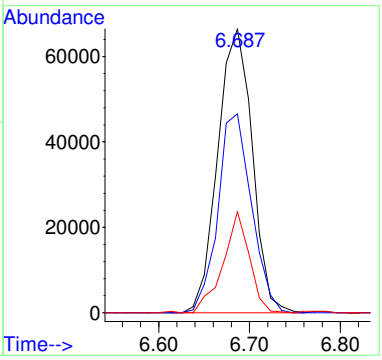


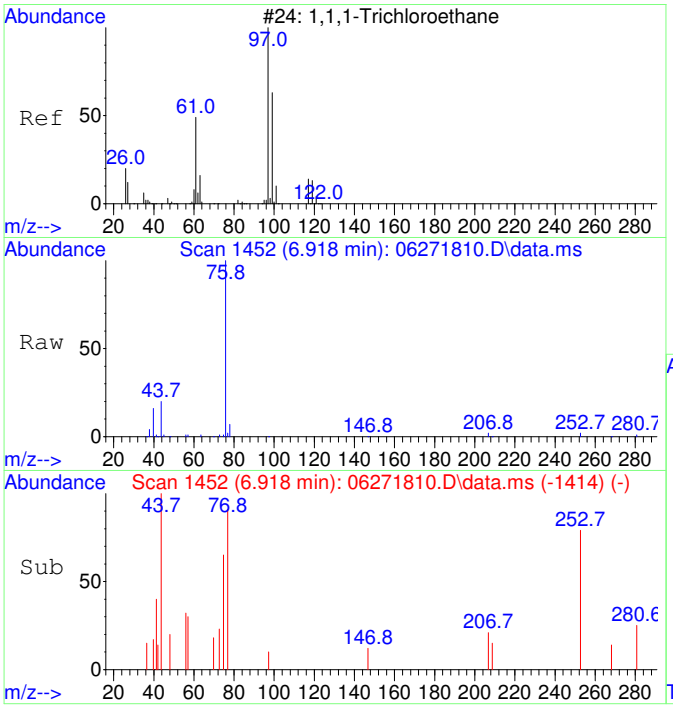


#30
Chloroform SCAN
Concen: 27145.33 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. -0.012 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 83 Resp: 175899

Ion	Ratio	Lower	Upper
83	100		
85	68.3	32.6	92.6
47	27.4	0.0	57.9

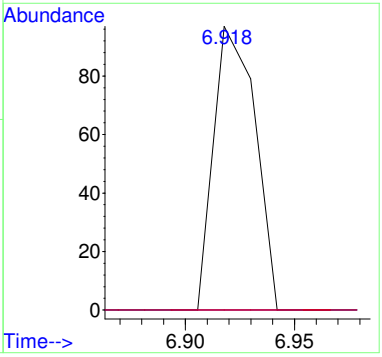


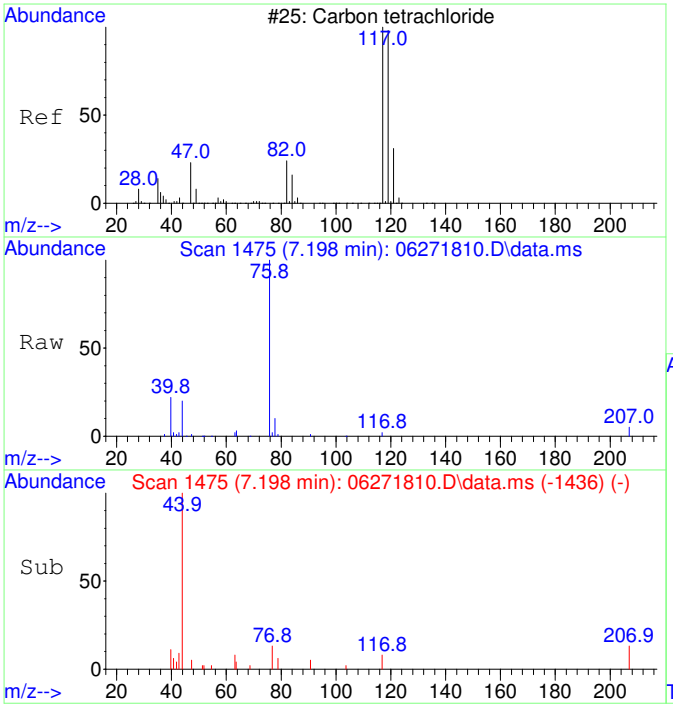


#31
1,1,1-Trichloroethane SCAN
Concen: 22.19 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.037 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 97 Resp: 128

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

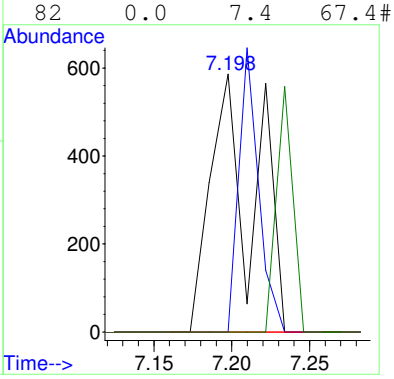


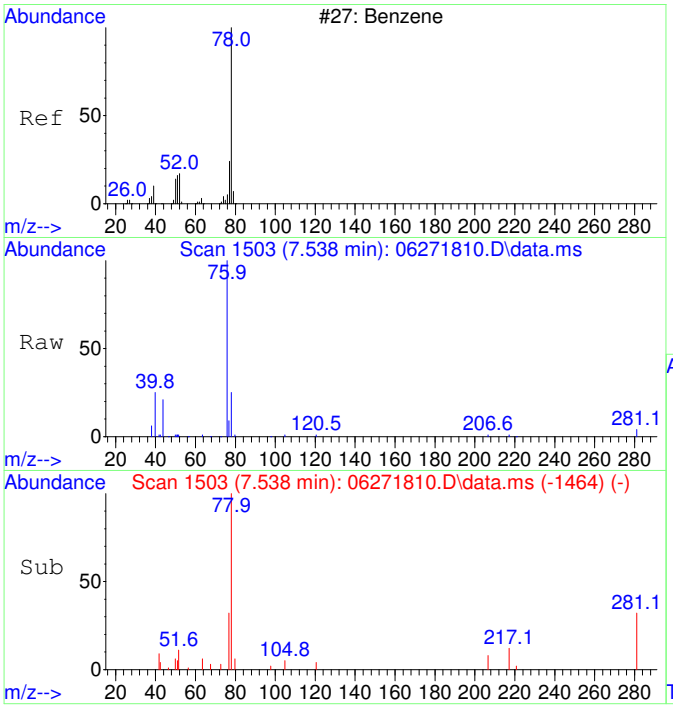


#32
Carbon tetrachloride SCAN
Concen: 199.70 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. -0.024 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:117 Resp: 1135

Ion	Ratio	Lower	Upper
117	100		
119	50.6	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

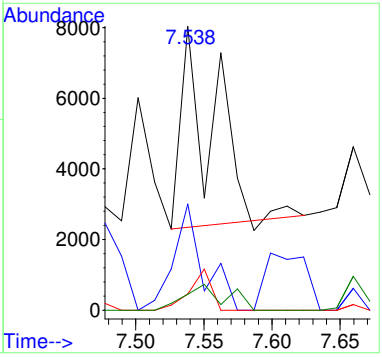


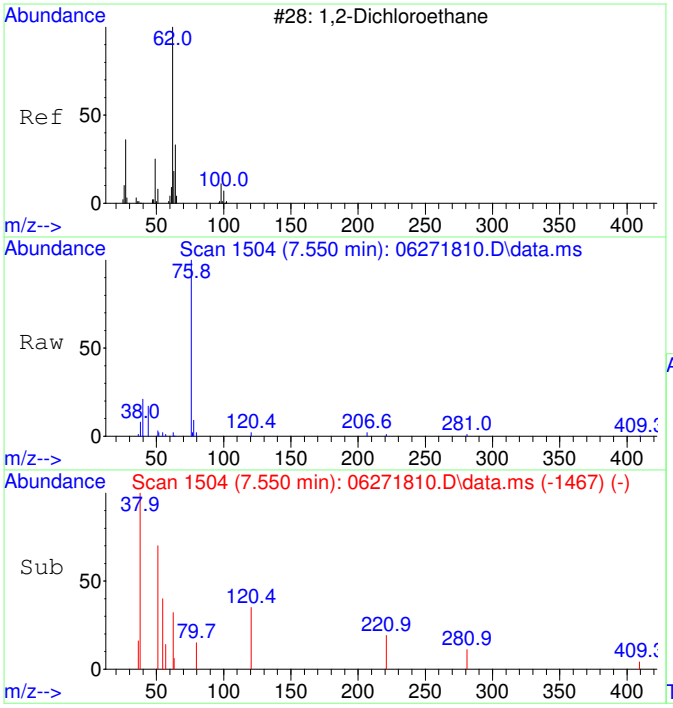


#33
Benzene SCAN
Concen: 550.88 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.024 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 78 Resp: 9476

Ion	Ratio	Lower	Upper
78	100		
77	48.8	3.0	63.0
51	13.7	0.0	56.4
52	16.6	0.0	48.0

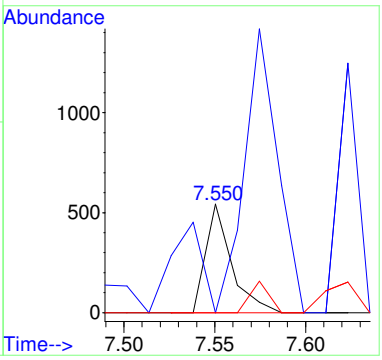


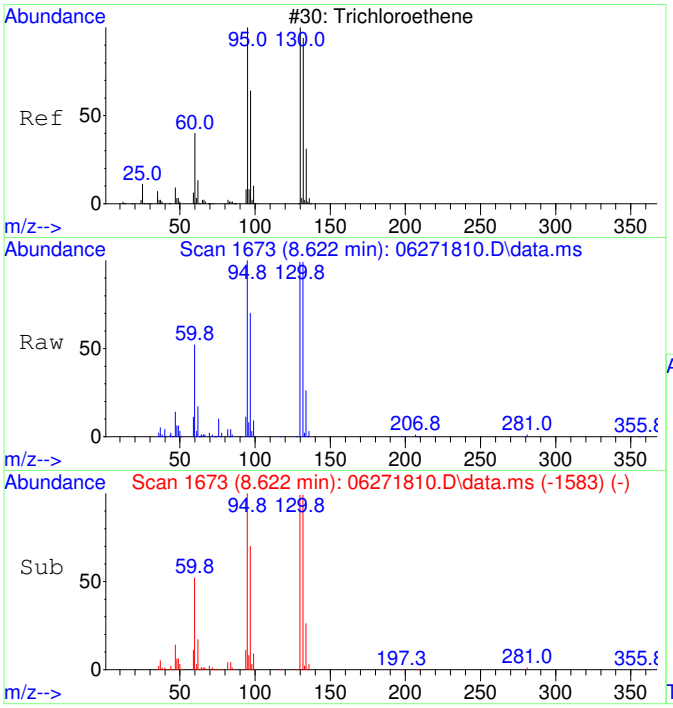


#34
1,2-Dichloroethane SCAN
Concen: 91.20 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.049 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 62 Resp: 535

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

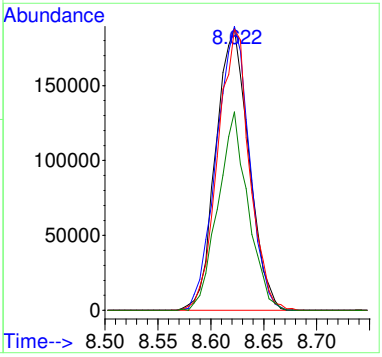


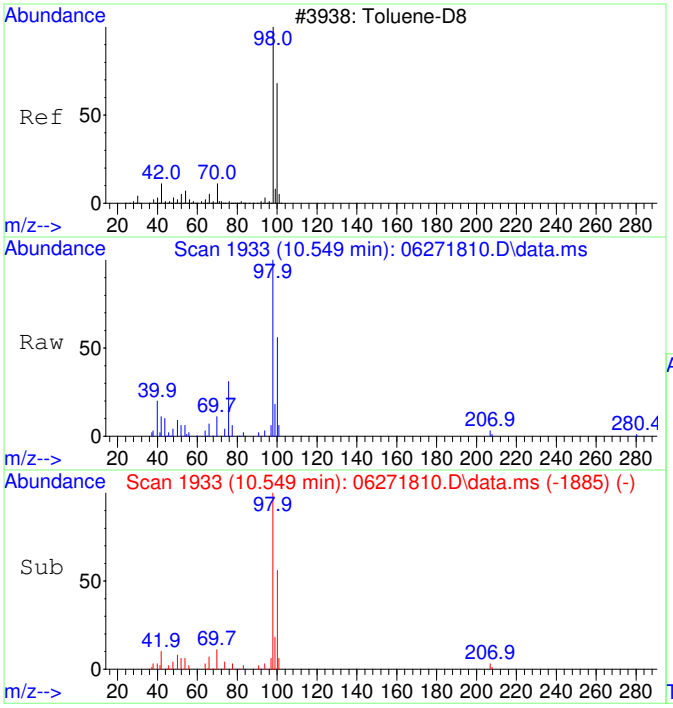


#35
Trichloroethene SCAN
Concen: 96969.30 ug/L
RT: 8.622 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:130 Resp: 408176

Ion	Ratio	Lower	Upper
130	100		
95	100.3	70.5	130.5
132	95.4	63.8	123.8
97	64.0	34.8	94.8

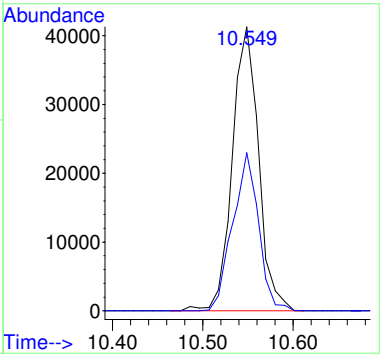


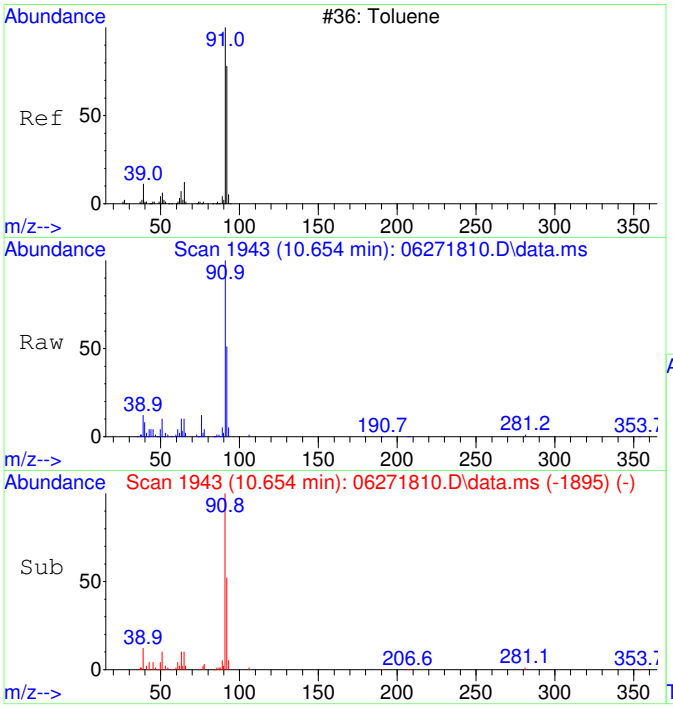


#36
Toluene-d8 SCAN
Concen: 5609.01 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 98 Resp: 83749

Ion	Ratio	Lower	Upper
98	100		
100	54.8	39.5	99.5

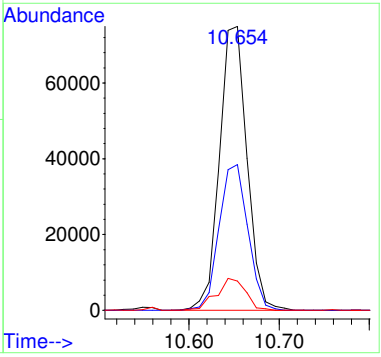


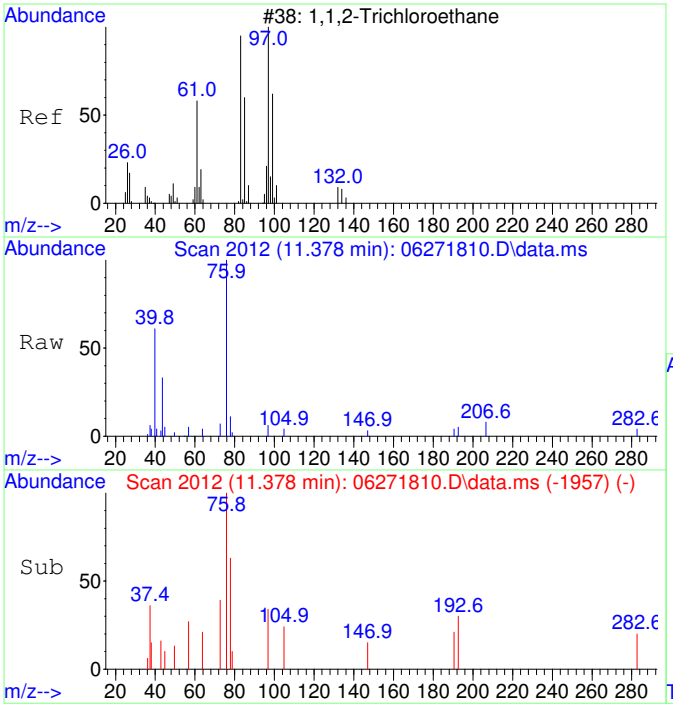


#37
Toluene SCAN
Concen: 8343.50 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 159136

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.6	86.6
65	12.0	0.0	42.3

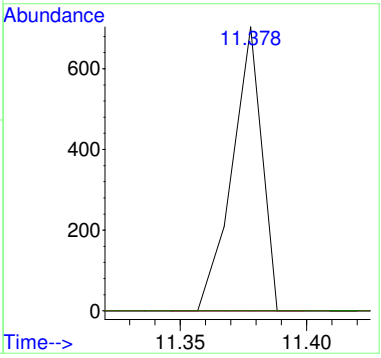


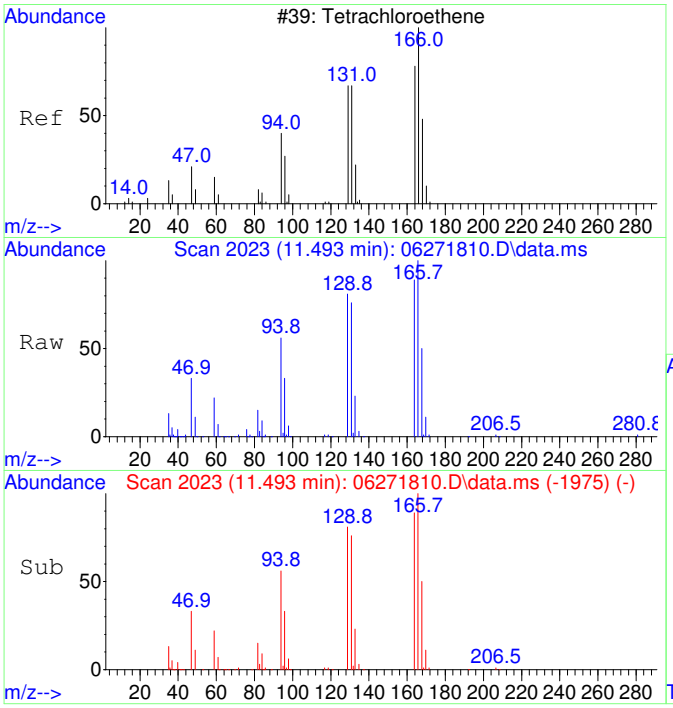


#38
1,1,2-Trichloroethane SCAN
Concen: 157.33 ug/L
RT: 11.378 min Scan# 2012
Delta R.T. 0.073 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 97 Resp: 575

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#

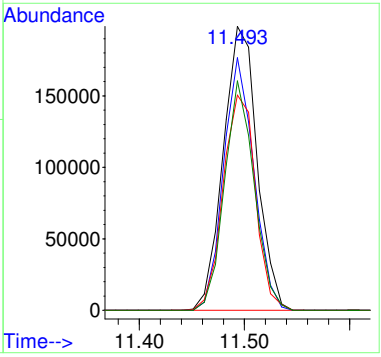


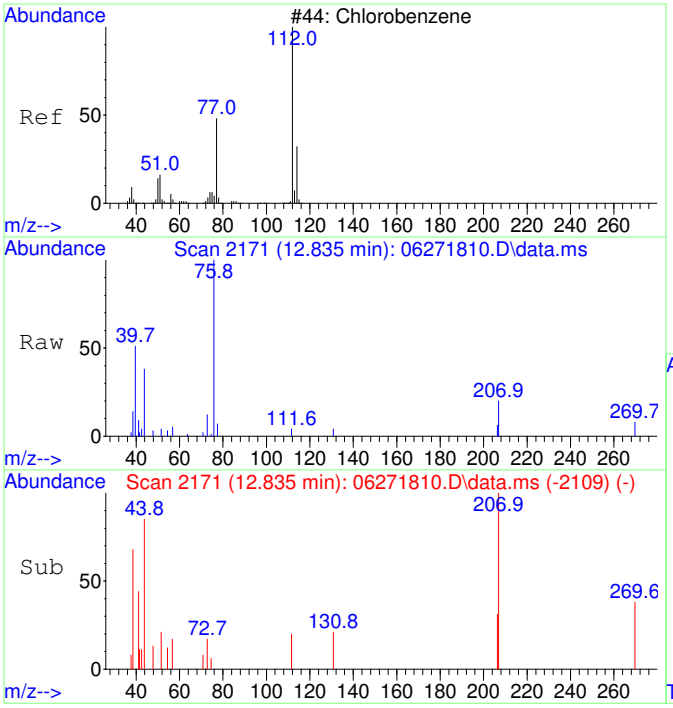


#39
Tetrachloroethene SCAN
Concen: 106072.13 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:166 Resp: 443948

Ion	Ratio	Lower	Upper
166	100		
164	79.6	43.3	103.3
131	72.5	35.6	95.6
129	70.9	36.6	96.6

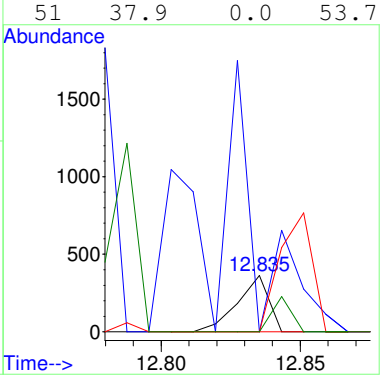


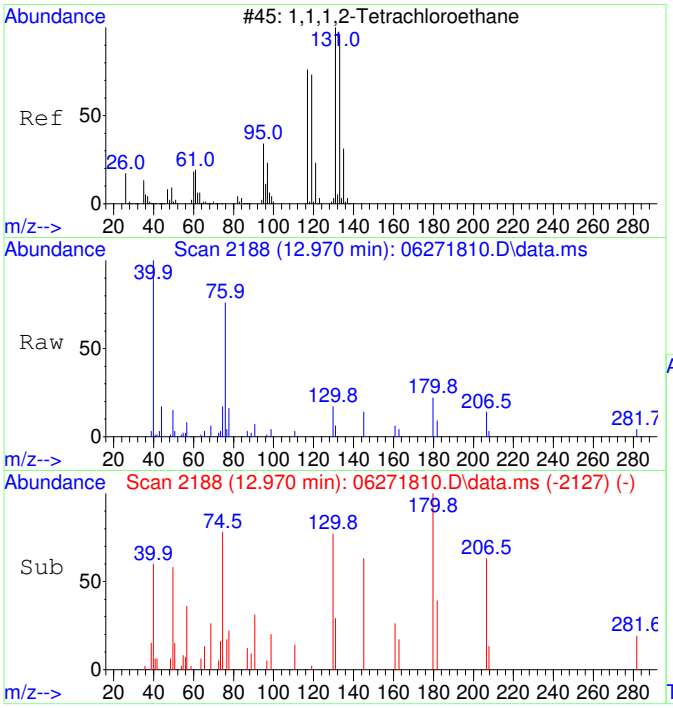


#40
Chlorobenzene SCAN
Concen: 24.63 ug/L
RT: 12.835 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:112 Resp: 285

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.4	88.4#
114	218.9	0.0	59.5#
51	37.9	0.0	53.7

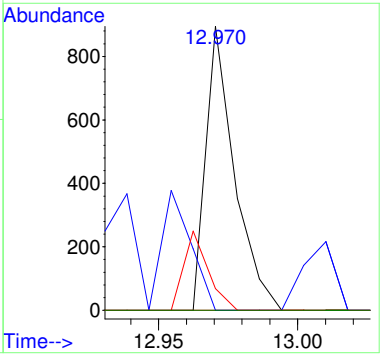


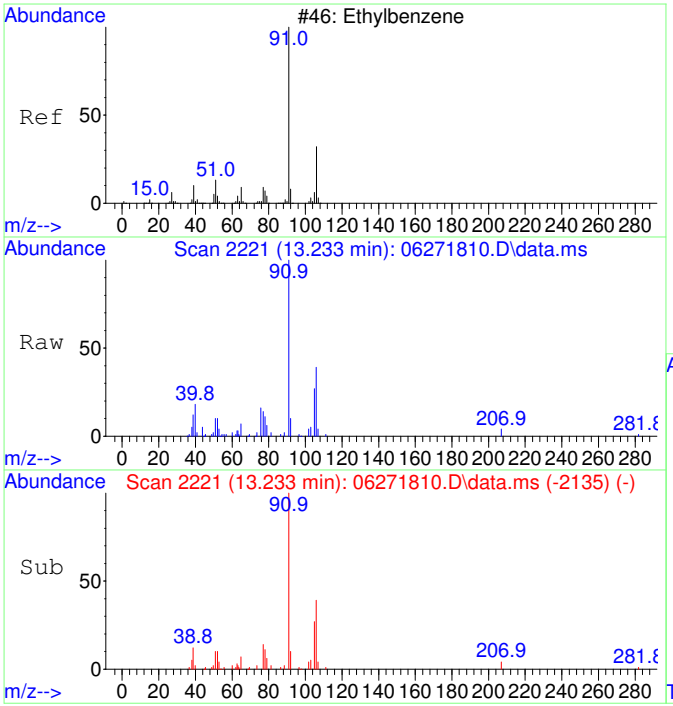


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 155.45 ug/L
RT: 12.970 min Scan# 2188
Delta R.T. -0.016 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:131 Resp: 642

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	23.7	37.9	97.9#
117	0.0	28.2	88.2#

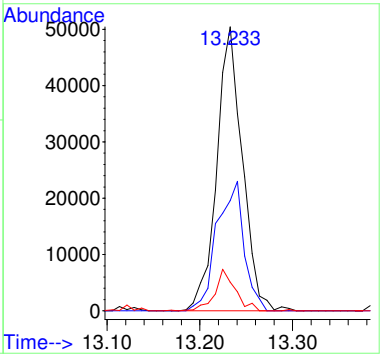


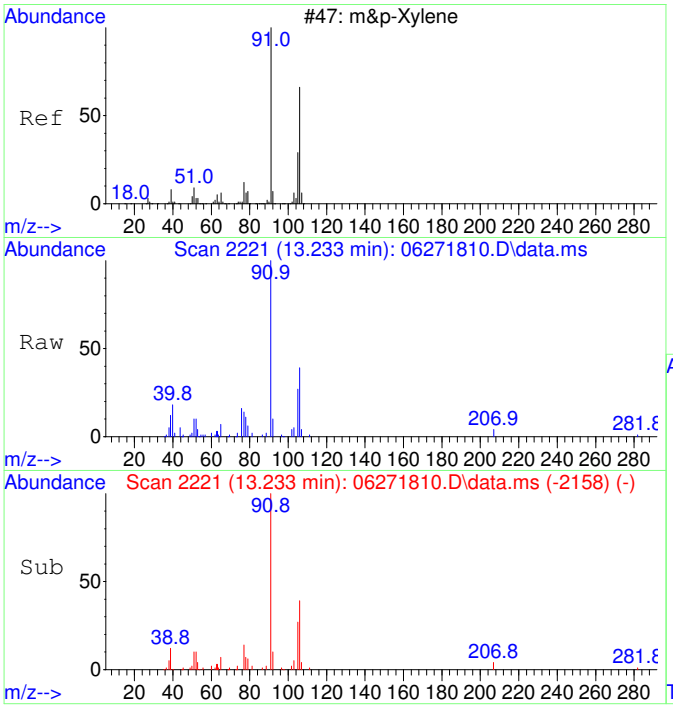


#42
Ethylbenzene SCAN
Concen: 4379.58 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.183 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 97096

Ion	Ratio	Lower	Upper
91	100		
106	48.2	3.2	63.2
51	11.6	0.0	40.1

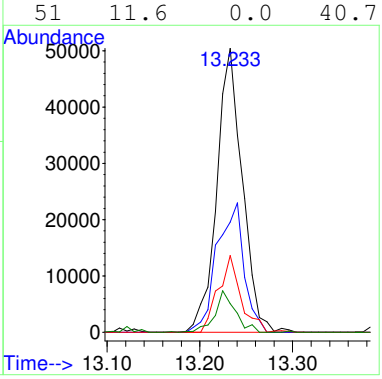


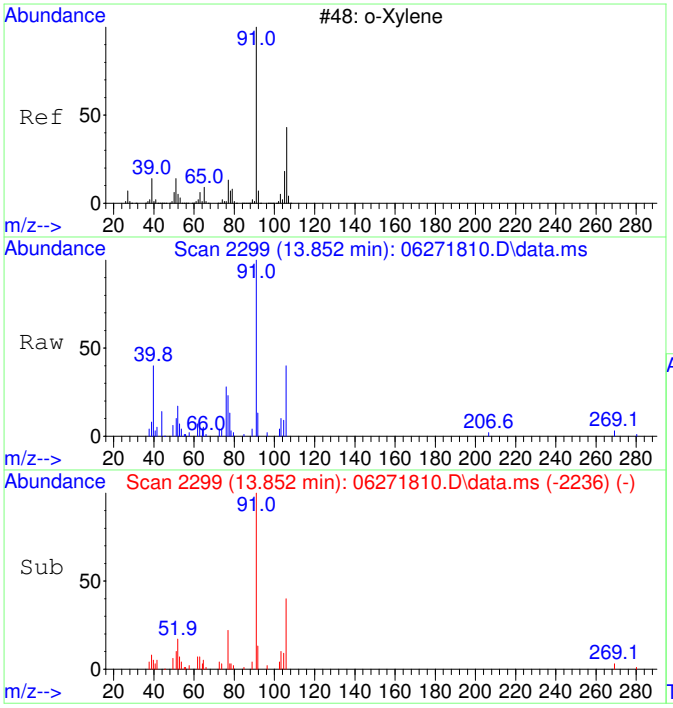


#43
m&p-Xylene SCAN
Concen: 3155.18 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 97096

Ion	Ratio	Lower	Upper
91	100		
106	48.2	20.1	80.1
105	24.1	0.0	51.1
51	11.6	0.0	40.7

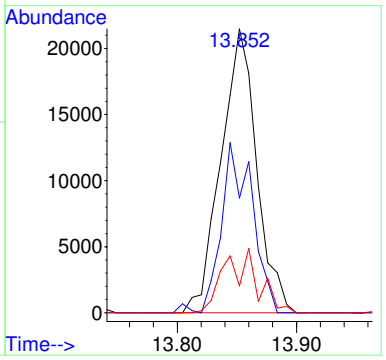


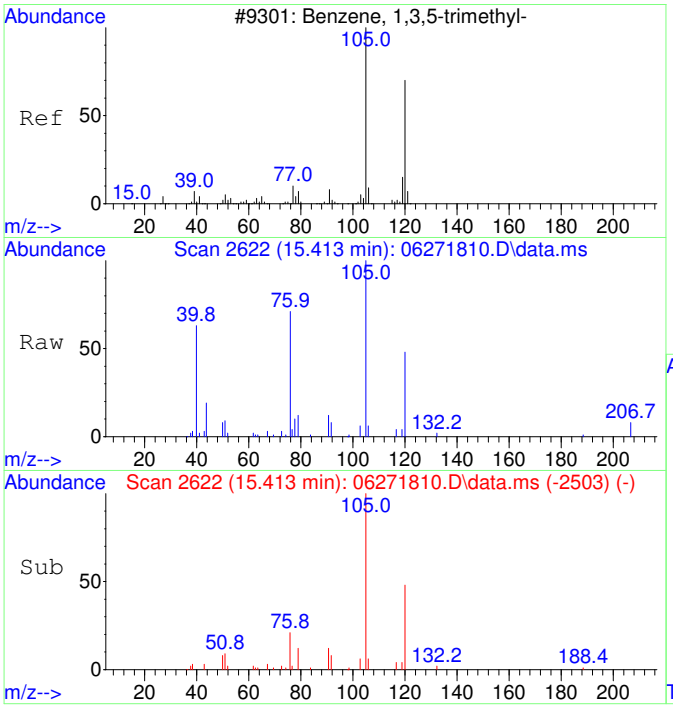


#44
o-Xylene SCAN
Concen: 2559.83 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 44836

Ion	Ratio	Lower	Upper
91	100		
106	52.1	21.3	81.3
105	21.1	0.0	55.2

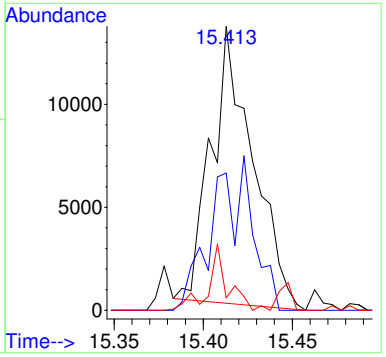


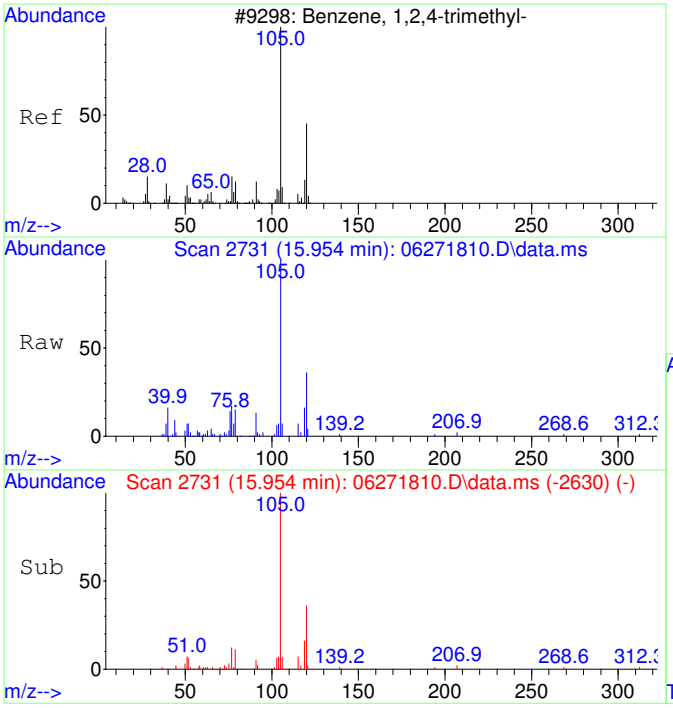


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1257.19 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:105 Resp: 21833

Ion	Ratio	Lower	Upper
105	100		
120	53.5	16.8	76.8
119	10.7	0.0	41.5

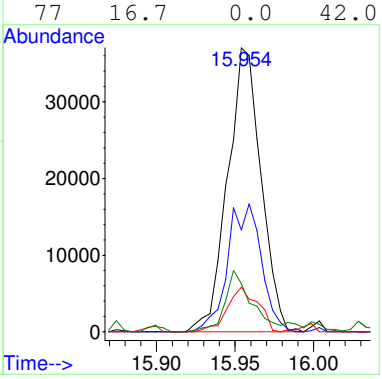


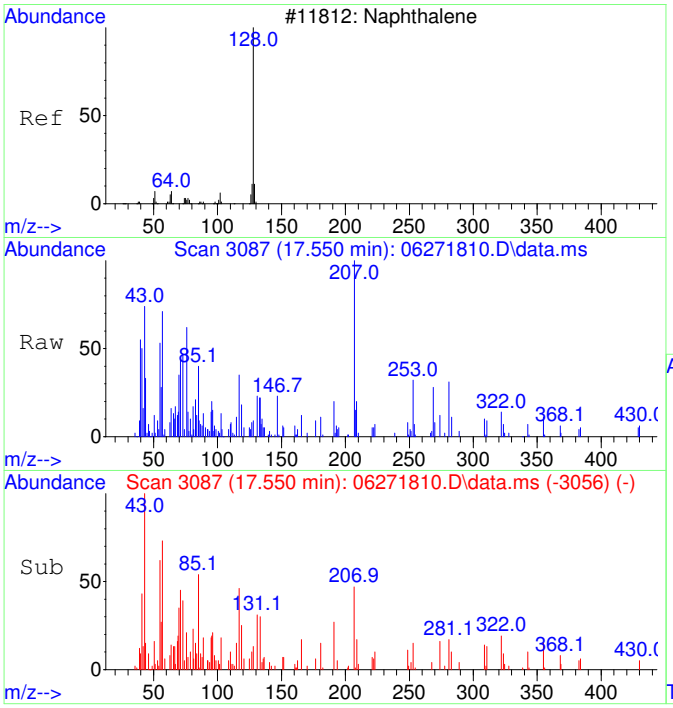


#47
1,2,4-Trimethylbenzene SCAN
Concen: 3077.44 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:105 Resp: 54772

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.4	75.4
119	14.3	0.0	41.7
77	16.7	0.0	42.0

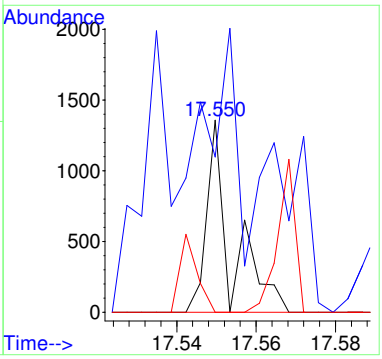




#48
Naphthalene SCAN
Concen: 22.92 ug/L
RT: 17.550 min Scan# 3087
Delta R.T. -0.385 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:128 Resp: 582

Ion	Ratio	Lower	Upper
128	100		
127	42.4	0.0	43.9
129	28.9	0.0	40.5



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271810.D
Acq On : 27 Jun 2018 13:04
InstName : AG5975C
Operator : TD
Sample : 1806075-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

M.I. Performed By:
TD at 11:01 am, Jun 28, 2018

M.I. Approved By:
ZR at 11:18 am, Jul 02, 2018

Quant Time: Jun 27 13:24:20 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

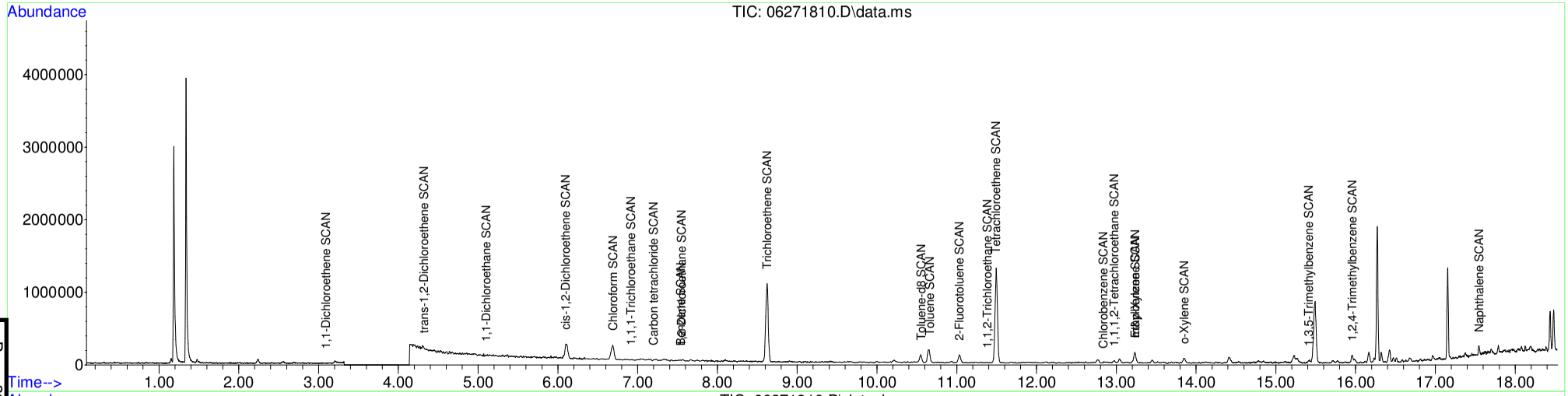
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	141743	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	120507	5234.12 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.68%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	690m	116.16 ug/L	
3] trans-1,2-Dichloroethene	4.309	61	19646	3099.65 ug/L	99
5] cis-1,2-Dichloroethene	6.101	61	228719	29389.53 ug/L	100
6] Chloroform	6.676	83	275821	32915.41 ug/L	100
7] 1,1,1-Trichloroethane	6.943	97	360	43.65 ug/L	76
8] Carbon tetrachloride	7.211	117	1799	230.26 ug/L	96
9] Benzene	7.552	78	10535	462.91 ug/L	89
10] 1,2-Dichloroethane	7.588	62	458	62.44 ug/L #	1
11] Trichloroethene	8.618	130	666861	106614.15 ug/L	100
13] Toluene	10.645	91	244558	7922.35 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	1614	252.96 ug/L #	18
15] Tetrachloroethene	11.495	166	785978	90370.50 ug/L	99
16] Chlorobenzene	12.829	112	647	29.37 ug/L	69
17] 1,1,1,2-Tetrachloroethane	12.972	131	284	37.98 ug/L	70
18] Ethylbenzene	13.035	91	53047	1431.97 ug/L	99
19] m&p-Xylene	13.226	91	154813	5414.64 ug/L	100
20] o-Xylene	13.845	91	70899	2341.38 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.932	83	630	48.31 ug/L #	22
22] 1,3,5-Trimethylbenzene	15.414	105	36334	1060.48 ug/L	97
23] 1,2,4-Trimethylbenzene	15.955	105	89828	2621.04 ug/L	99
24] Naphthalene	17.933	128	1520	27.03 ug/L #	6
25) 2-Fluorotoluene SCAN	11.032	109	88201	5340.06 ug/L	98
26) 1,1-Dichloroethene SCAN	3.096	61	175	42.46 ug/L #	1
27) trans-1,2-Dichloroethe...	4.321	61	15222	3172.41 ug/L	81
28) 1,1-Dichloroethane SCAN	5.098	63	196	32.11 ug/L #	1
29) cis-1,2-Dichloroethene...	6.099	61	153500	29076.34 ug/L	86
30) Chloroform SCAN	6.687	83	175899	27145.33 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	128	22.19 ug/L #	26
32) Carbon tetrachloride SCAN	7.198	117	1135	199.70 ug/L #	42
33) Benzene SCAN	7.538	78	9476	550.88 ug/L	79
34) 1,2-Dichloroethane SCAN	7.550	62	535	91.20 ug/L #	39
35) Trichloroethene SCAN	8.622	130	408176	96969.30 ug/L	99
36) Toluene-d8 SCAN	10.549	98	83749	5609.01 ug/L	82
37) Toluene SCAN	10.654	91	159136	8343.50 ug/L	97
38) 1,1,2-Trichloroethane ...	11.378	97	575	157.33 ug/L #	10
39) Tetrachloroethene SCAN	11.493	166	443948	106072.13 ug/L	93
40) Chlorobenzene SCAN	12.835	112	285	24.63 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.970	131	642	155.45 ug/L #	23
42) Ethylbenzene SCAN	13.233	91	97096	4379.58 ug/L	79
43) m&p-Xylene SCAN	13.233	91	97096	3155.18 ug/L	96
44) o-Xylene SCAN	13.852	91	44836	2559.83 ug/L	97
46) 1,3,5-Trimethylbenzene...	15.413	105	21833	1257.19 ug/L	91
47) 1,2,4-Trimethylbenzene...	15.954	105	54772	3077.44 ug/L	97
48) Naphthalene SCAN	17.550	128	582	22.92 ug/L	39

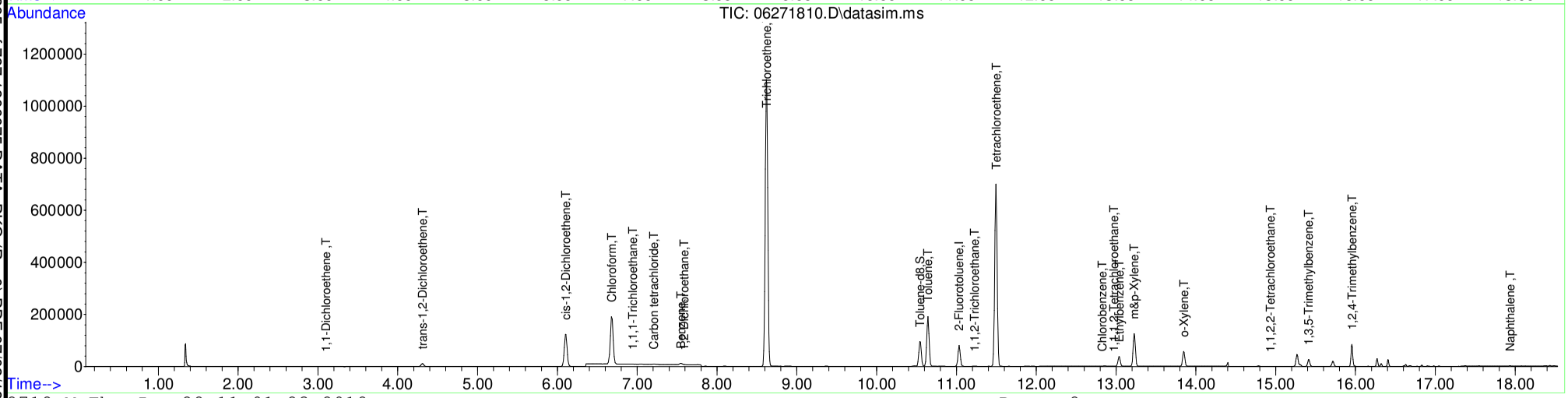
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271810.D
Acq On : 27 Jun 2018 13:04
InstName : AG5975C
Operator : TD
Sample : 1806075-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 13:24:20 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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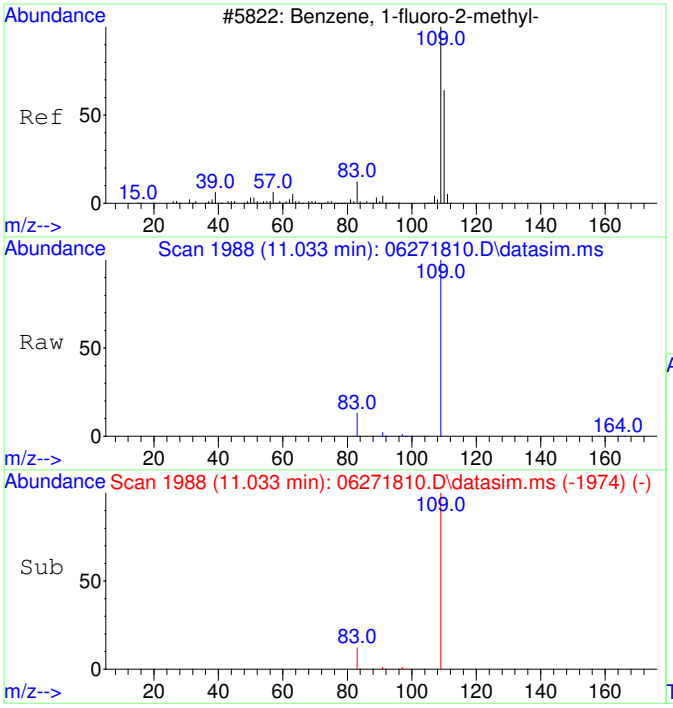
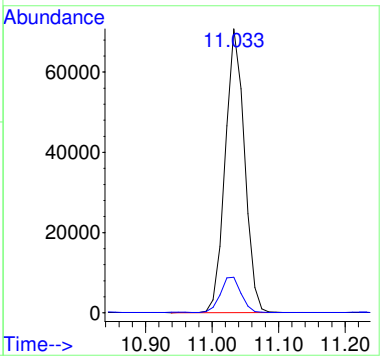
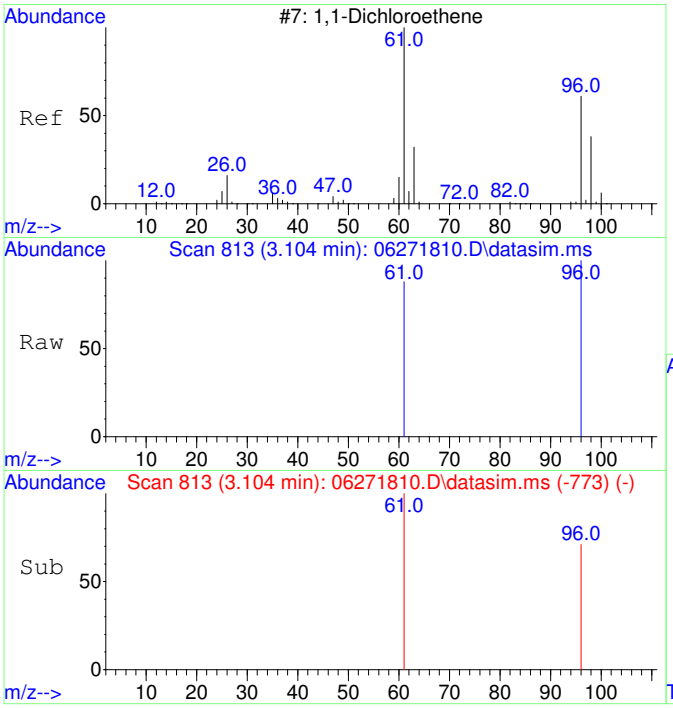


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:109 Resp: 141743

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	44.7

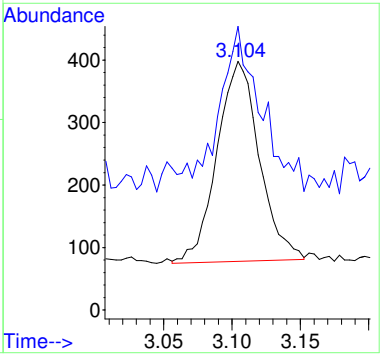


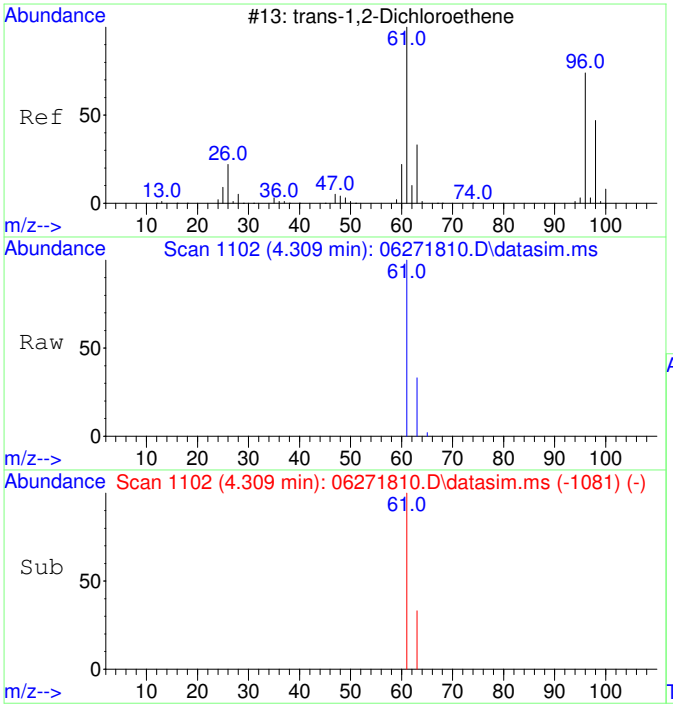


#2
1,1-Dichloroethene
Concen: 116.16 ug/L m
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 690

Ion	Ratio	Lower	Upper
61	100		
96	149.4	28.7	88.7#

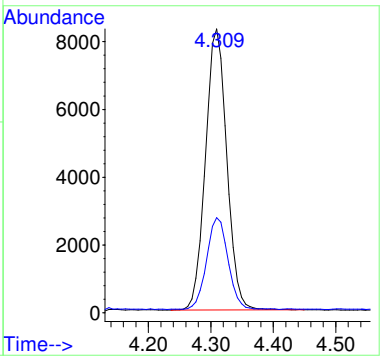


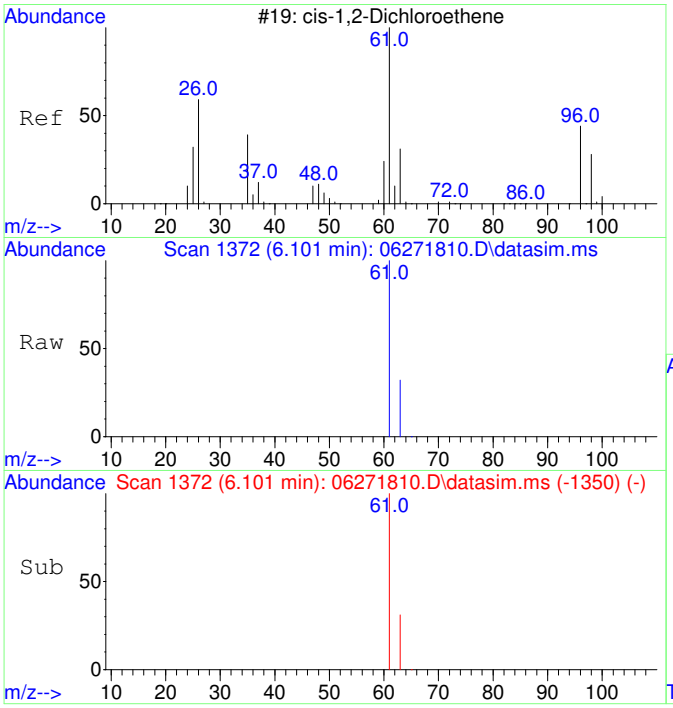


#3
trans-1,2-Dichloroethene
Concen: 3099.65 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 19646

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.0	62.0

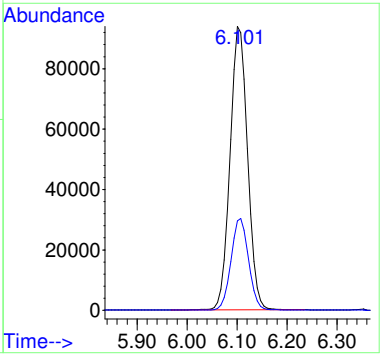


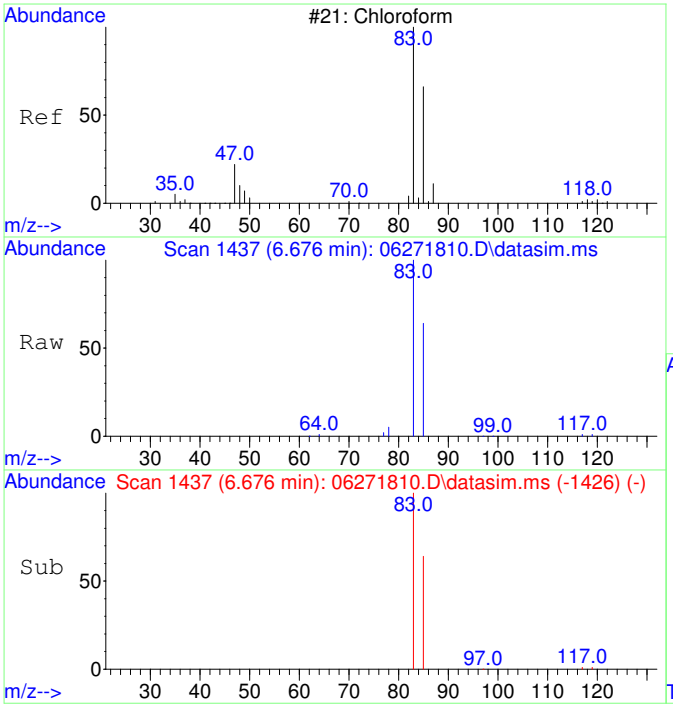


#5
cis-1,2-Dichloroethene
Concen: 29389.53 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 228719

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.2	62.2

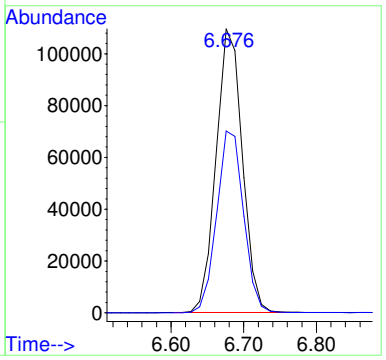


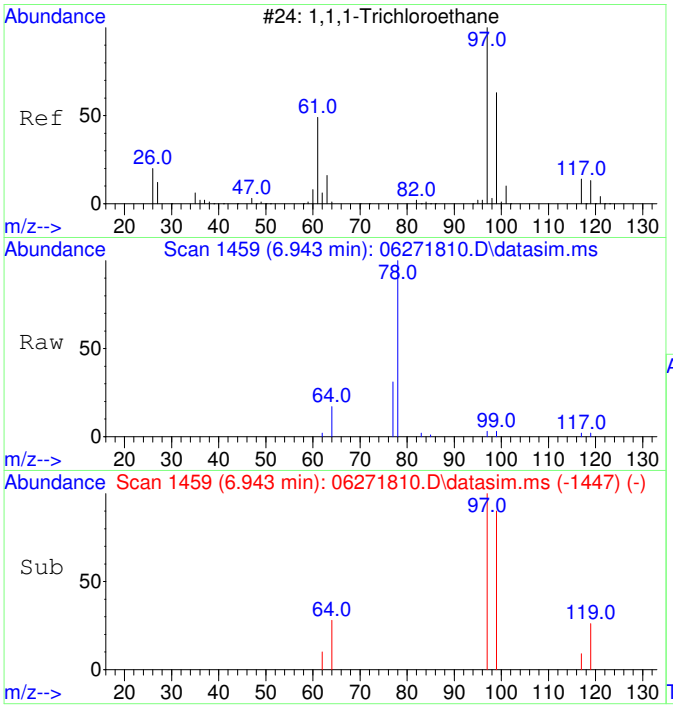


#6
Chloroform
Concen: 32915.41 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 83 Resp: 275821

Ion	Ratio	Lower	Upper
83	100		
85	65.1	34.8	94.8

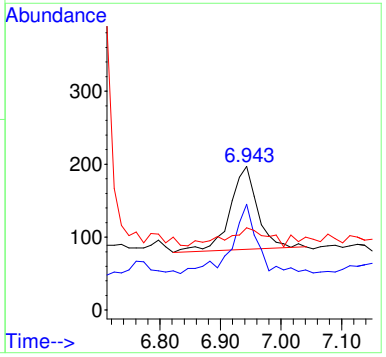


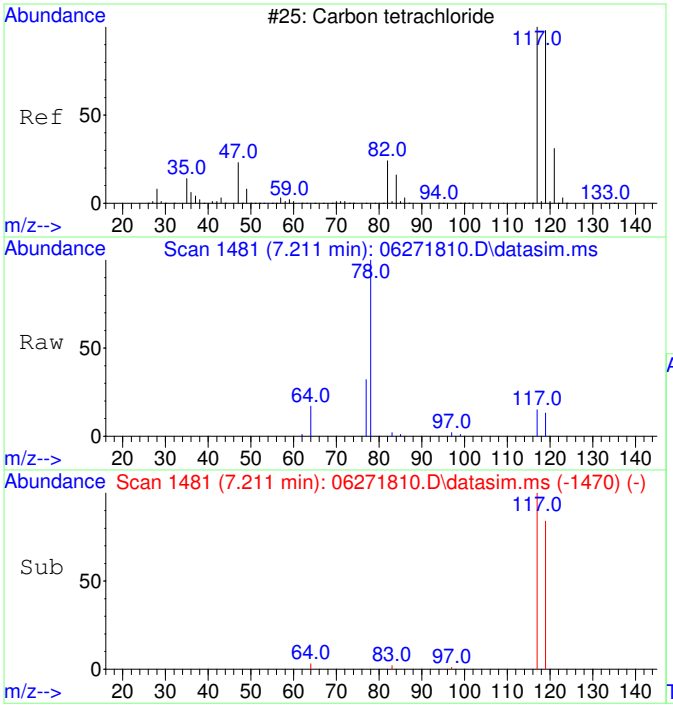


#7
1,1,1-Trichloroethane
Concen: 43.65 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 97 Resp: 360

Ion	Ratio	Lower	Upper
97	100		
99	78.6	34.6	94.6
117	34.2	0.0	42.9

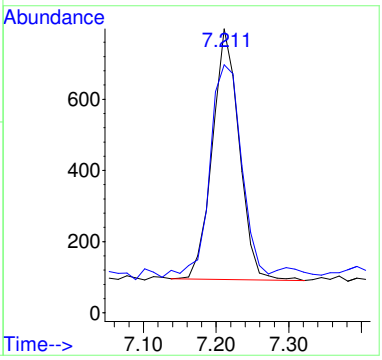


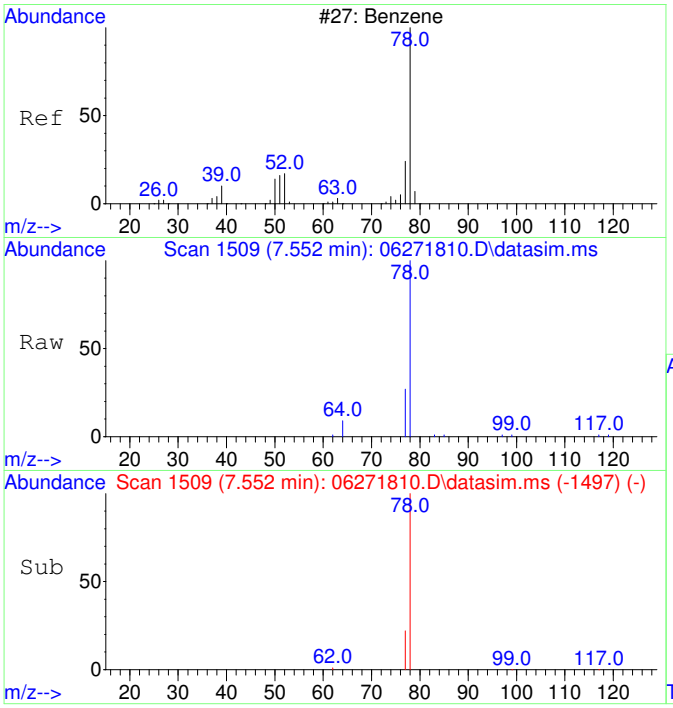


#8
Carbon tetrachloride
Concen: 230.26 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:117 Resp: 1799

Ion	Ratio	Lower	Upper
117	100		
119	100.2	65.9	125.9

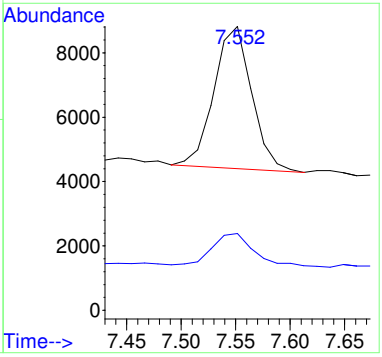


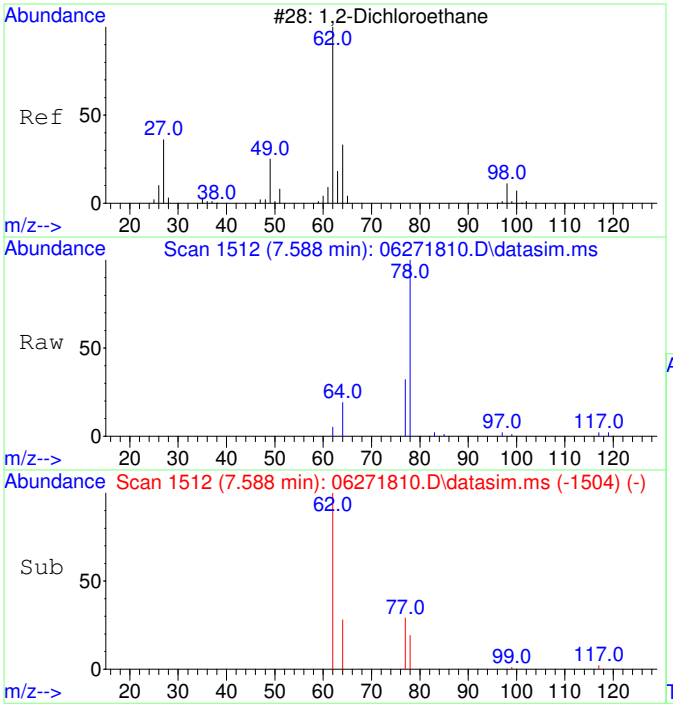


#9
Benzene
Concen: 462.91 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 78 Resp: 10535

Ion	Ratio	Lower	Upper
78	100		
77	28.2	0.0	53.0

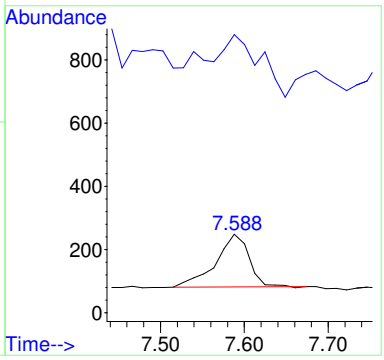


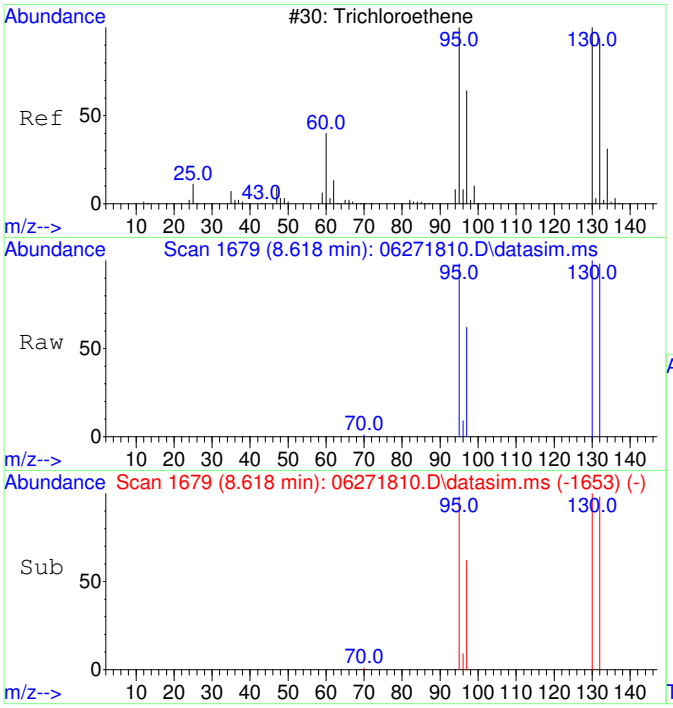


#10
1,2-Dichloroethane
Concen: 62.44 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 62 Resp: 458

Ion	Ratio	Lower	Upper
62	100		
64	205.2	2.3	62.3#

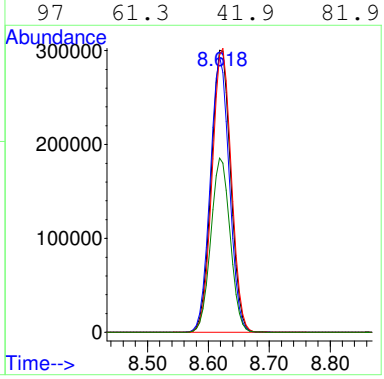


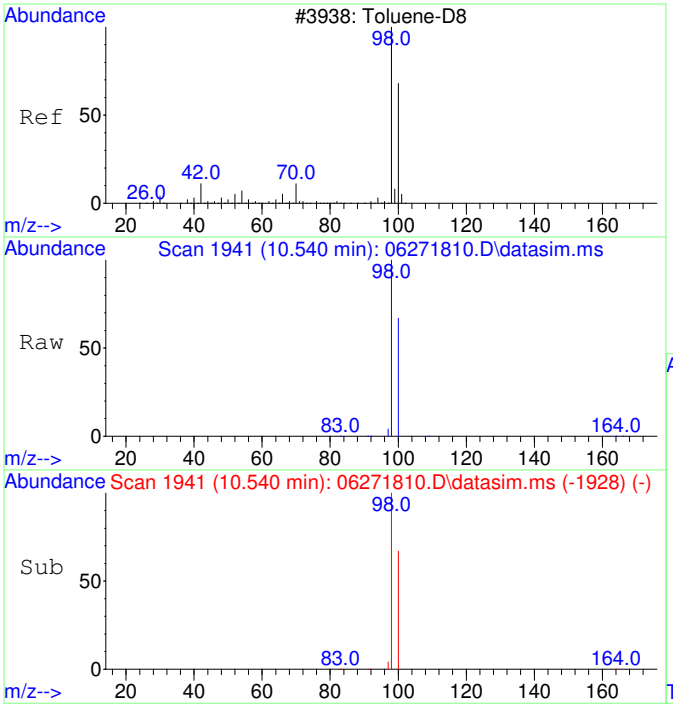


#11
Trichloroethene
Concen: 106614.15 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:130 Resp: 666861

Ion	Ratio	Lower	Upper
130	100		
95	96.0	66.0	126.0
132	99.4	78.8	118.8
97	61.3	41.9	81.9

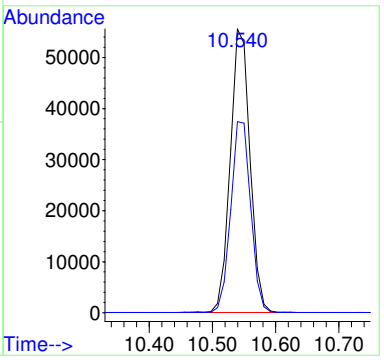


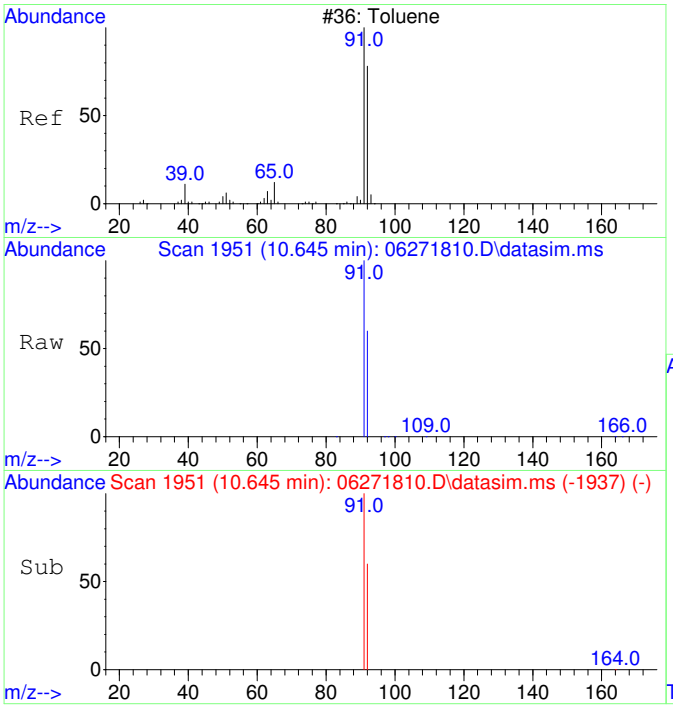


#12
Toluene-d8
Concen: 5234.12 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 98 Resp: 120507

Ion	Ratio	Lower	Upper
98	100		
100	68.0	38.7	98.7

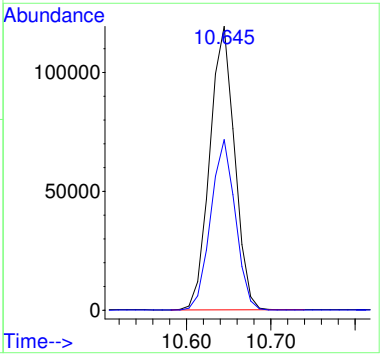


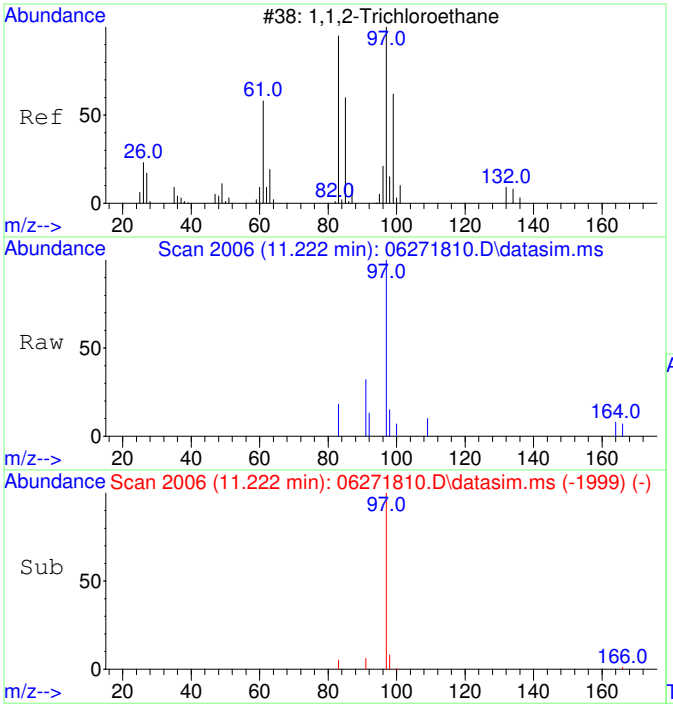


#13
Toluene
Concen: 7922.35 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 244558

Ion	Ratio	Lower	Upper
91	100		
92	59.6	30.0	90.0

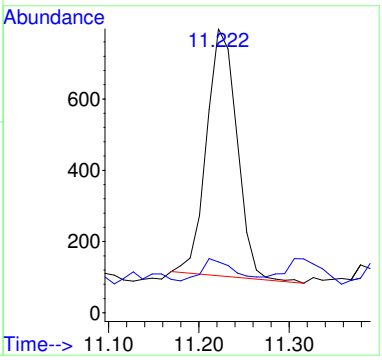


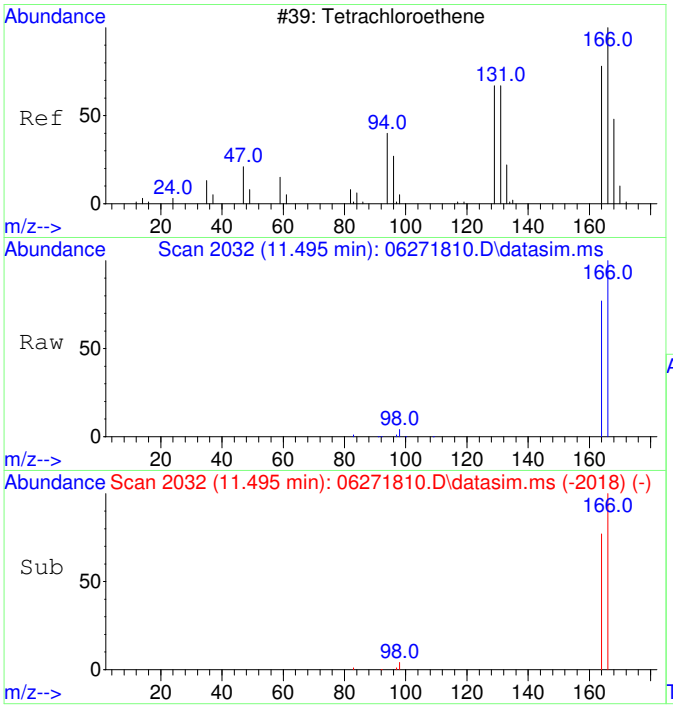


#14
1,1,2-Trichloroethane
Concen: 252.96 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.074 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 97 Resp: 1614

Ion	Ratio	Lower	Upper
97	100		
83	9.0	53.4	113.4#

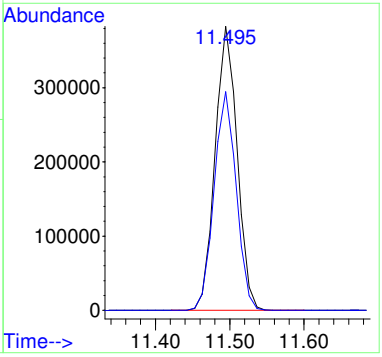


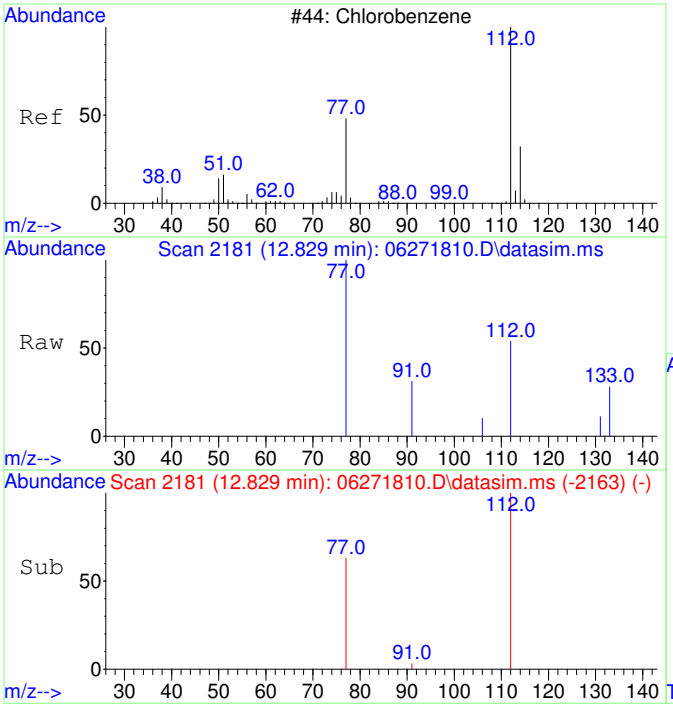


#15
Tetrachloroethene
Concen: 90370.50 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:166 Resp: 785978

Ion	Ratio	Lower	Upper
166	100		
164	77.2	47.8	107.8

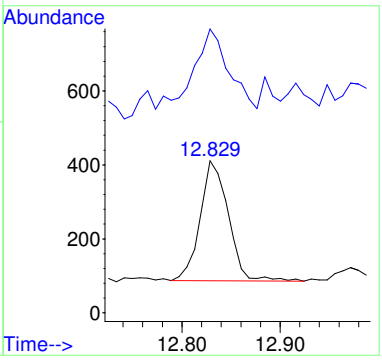


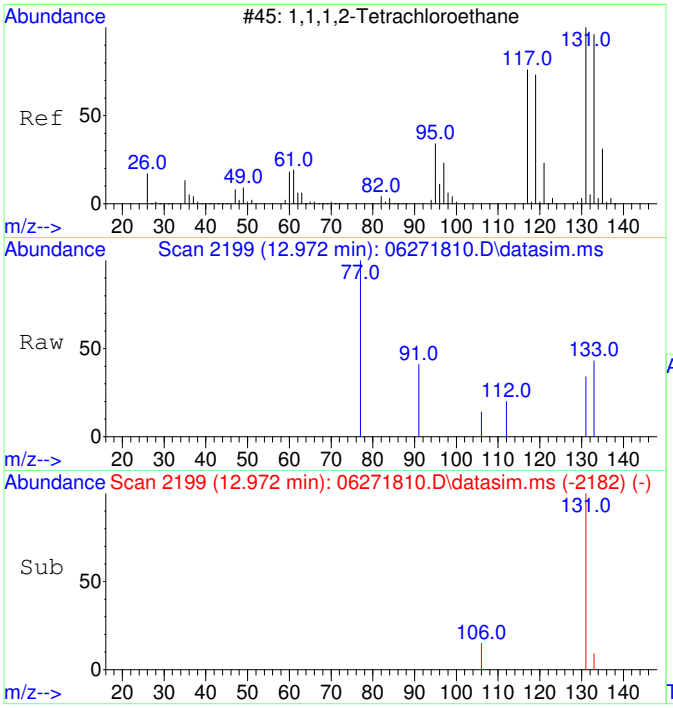


#16
Chlorobenzene
Concen: 29.37 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:112 Resp: 647

Ion	Ratio	Lower	Upper
112	100		
77	81.5	28.1	88.1

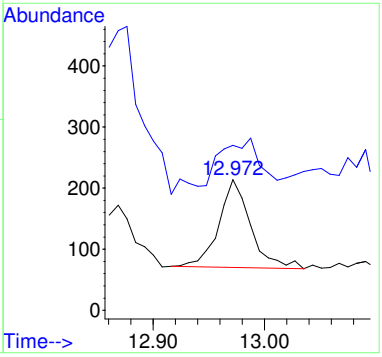


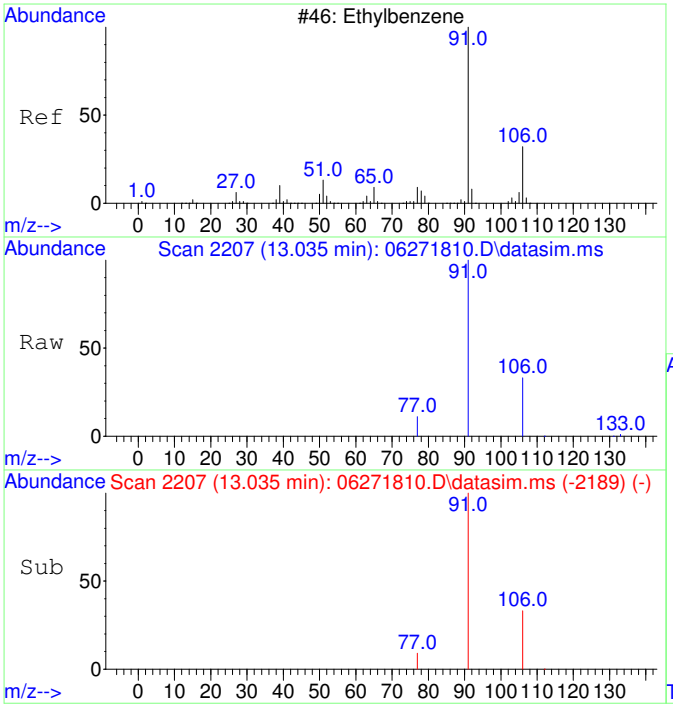


#17
1,1,1,2-Tetrachloroethane
Concen: 37.98 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.016 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:131 Resp: 284

Ion	Ratio	Lower	Upper
131	100		
133	66.5	66.2	126.2

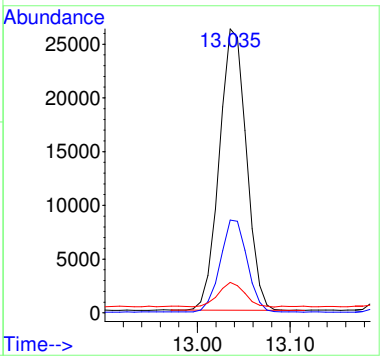


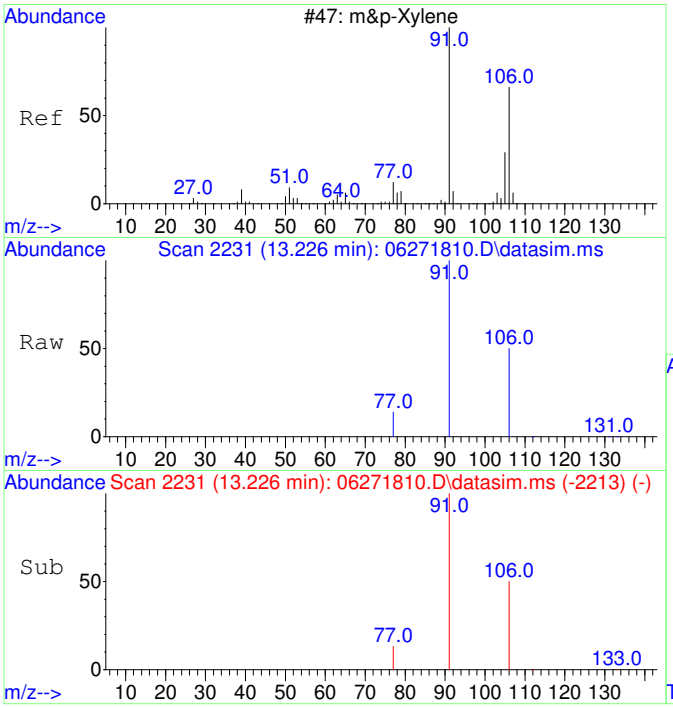


#18
Ethylbenzene
Concen: 1431.97 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 53047

Ion	Ratio	Lower	Upper
91	100		
106	32.5	2.8	62.8
77	8.4	0.0	38.6

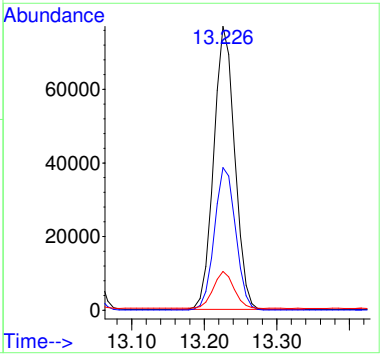


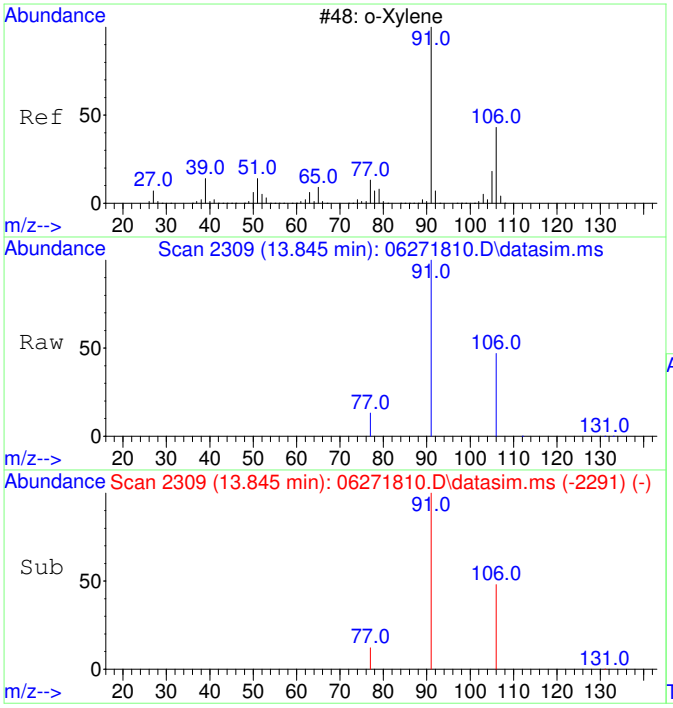


#19
m&p-Xylene
Concen: 5414.64 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 154813

Ion	Ratio	Lower	Upper
91	100		
106	51.0	21.2	81.2
77	12.8	0.0	42.9

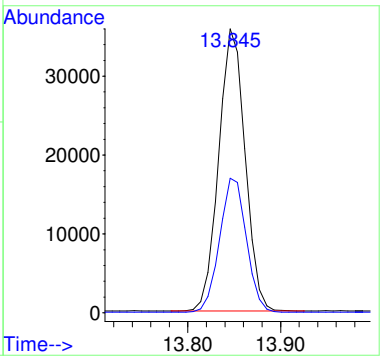


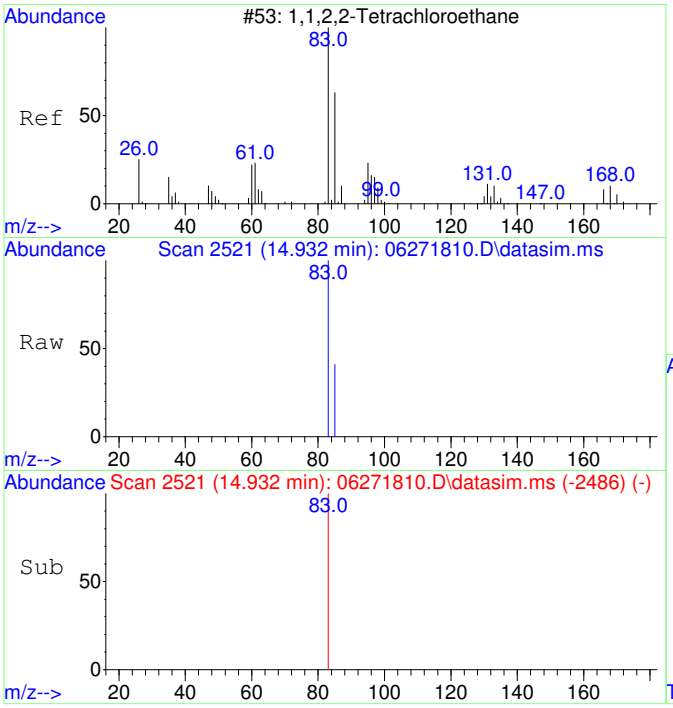


#20
o-Xylene
Concen: 2341.38 ug/L
RT: 13.845 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 70899

Ion	Ratio	Lower	Upper
91	100		
106	48.2	18.3	78.3

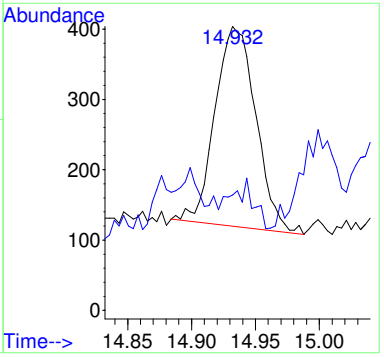


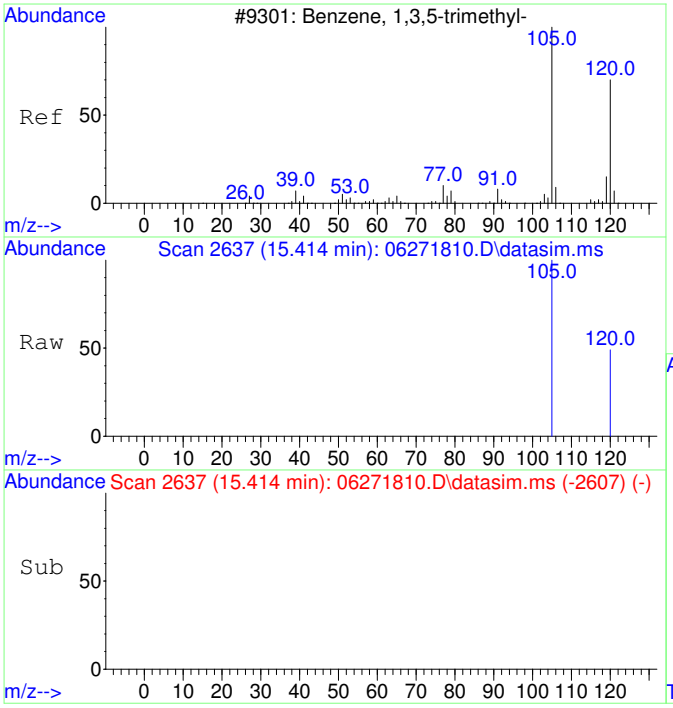


#21
1,1,2,2-Tetrachloroethane
Concen: 48.31 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.019 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 83 Resp: 630

Ion	Ratio	Lower	Upper
83	100		
85	3.3	34.4	94.4#

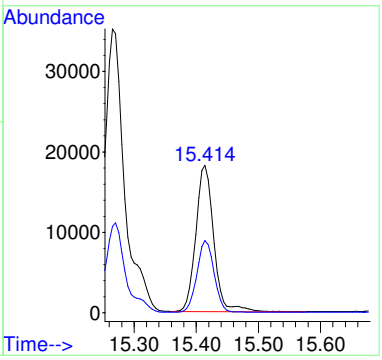


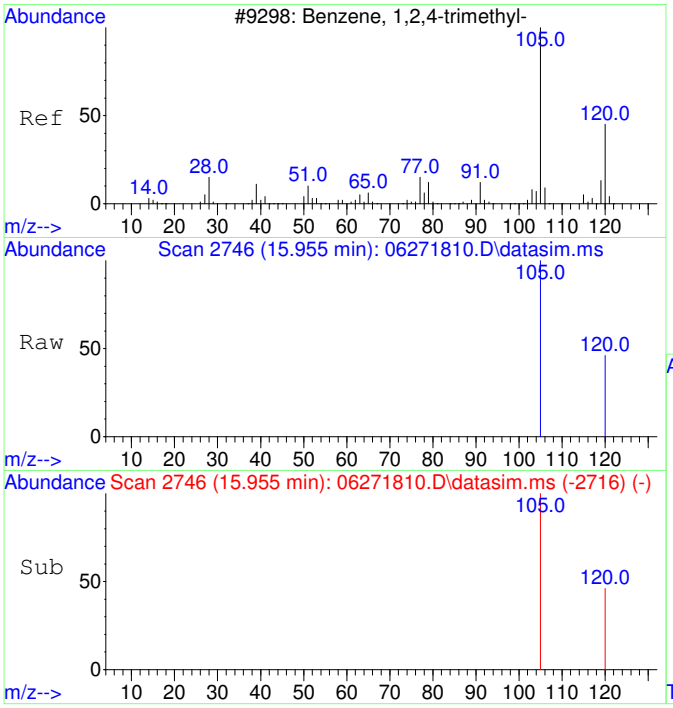


#22
1,3,5-Trimethylbenzene
Concen: 1060.48 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:105 Resp: 36334

Ion	Ratio	Lower	Upper
105	100		
120	47.0	19.1	79.1

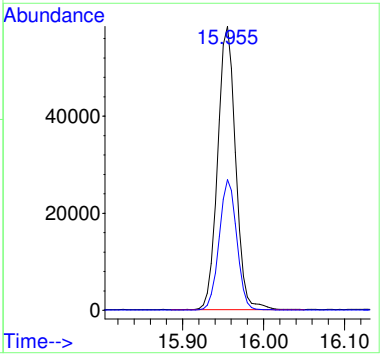


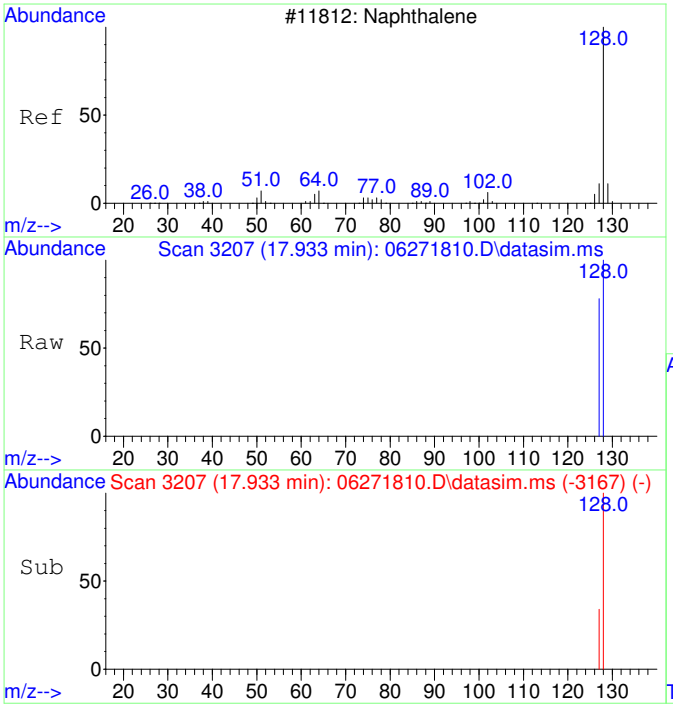


#23
1,2,4-Trimethylbenzene
Concen: 2621.04 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:105 Resp: 89828

Ion	Ratio	Lower	Upper
105	100		
120	44.9	15.5	75.5

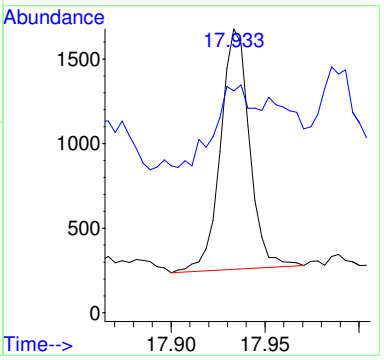


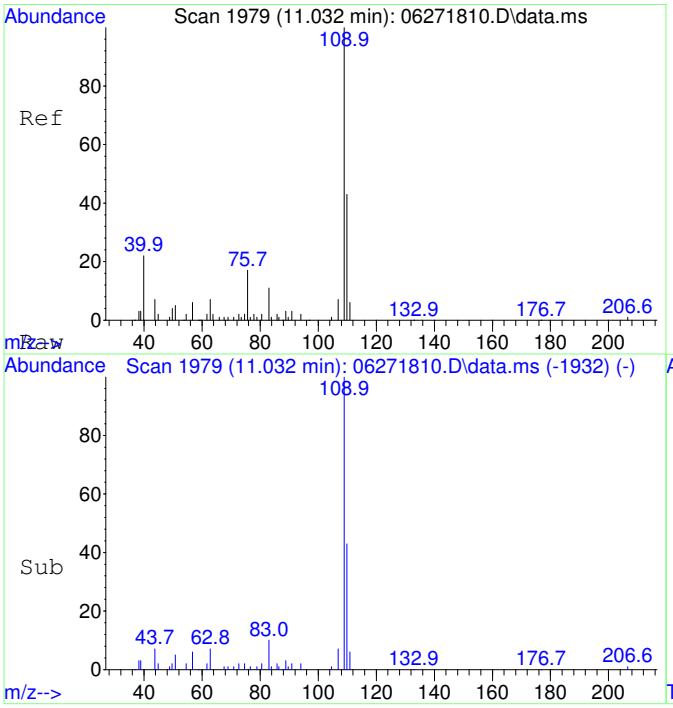


#24
Naphthalene
Concen: 27.03 ug/L
RT: 17.933 min Scan# 3207
Delta R.T. -0.003 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:128 Resp: 1520

Ion	Ratio	Lower	Upper
128	100		
127	49.4	0.0	42.5#

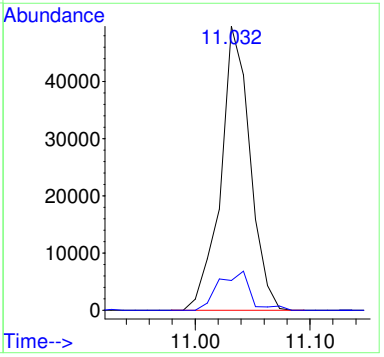


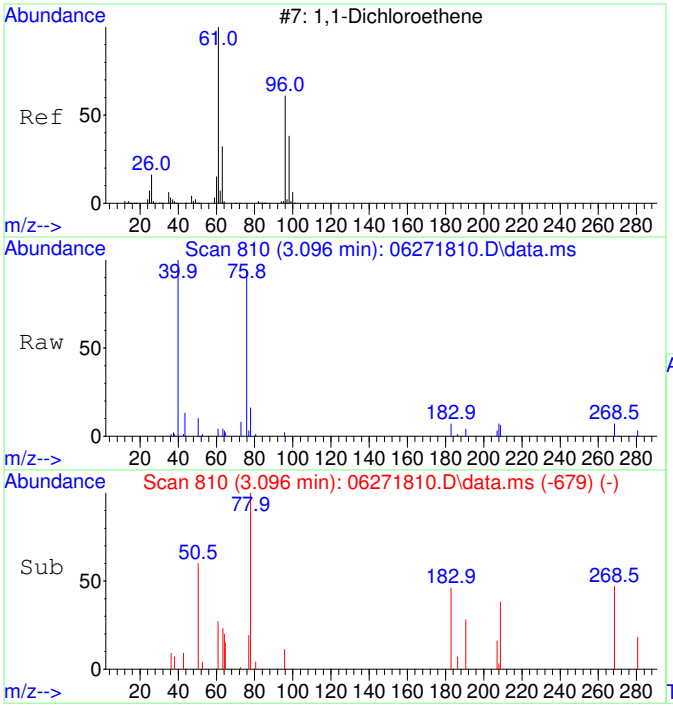


#25
2-Fluorotoluene SCAN
Concen: 5340.06 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:109 Resp: 88201

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	45.7

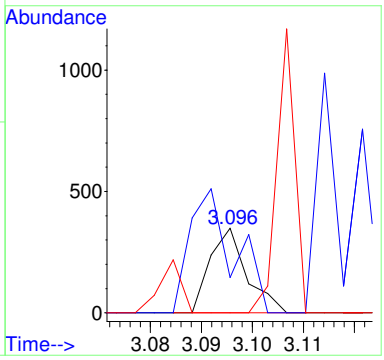


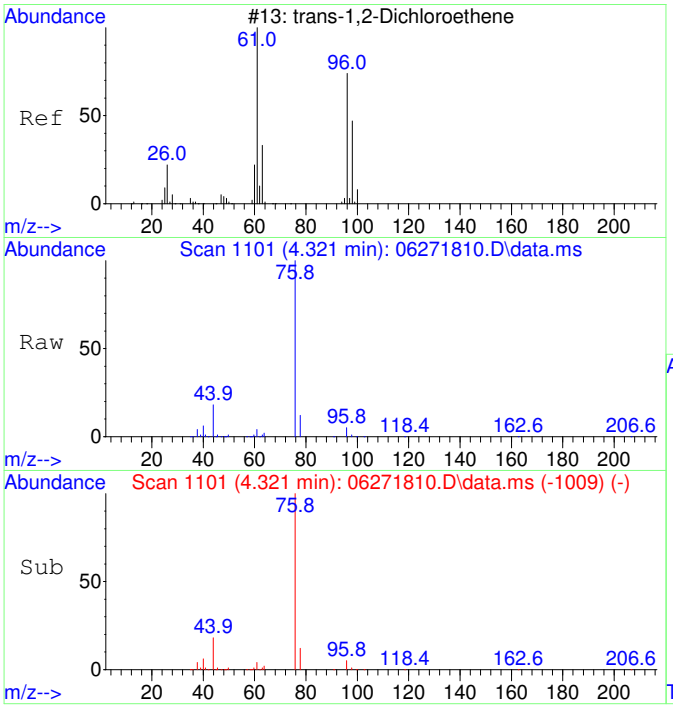


#26
1,1-Dichloroethene SCAN
Concen: 42.46 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.015 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 175

Ion	Ratio	Lower	Upper
61	100		
96	174.9	23.8	83.8#
98	37.1	8.8	68.8

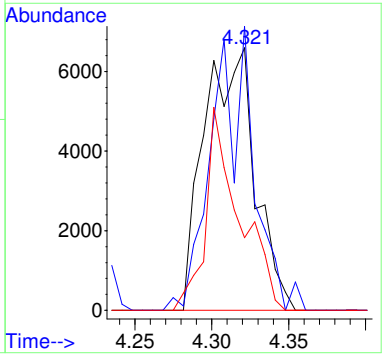


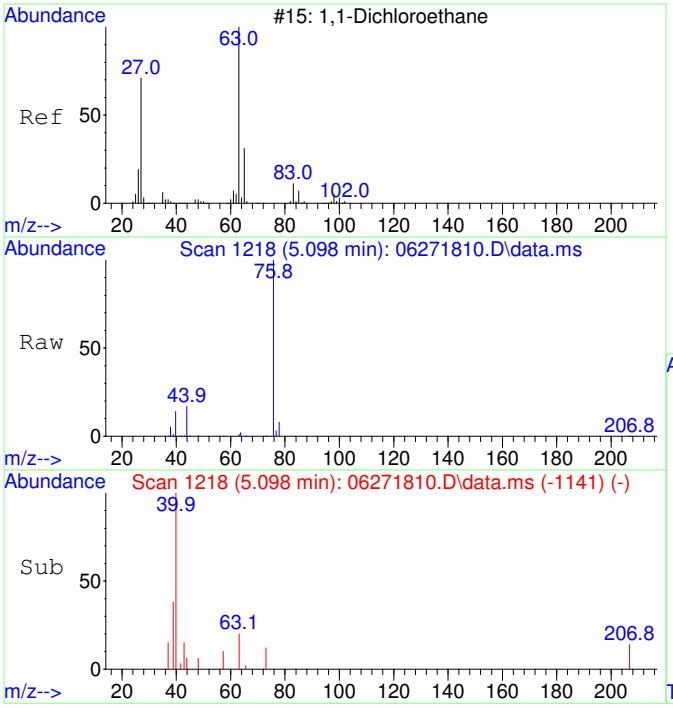


#27
trans-1,2-Dichloroethene SCAN
Concen: 3172.41 ug/L
RT: 4.321 min Scan# 1101
Delta R.T. -0.013 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 15222

Ion	Ratio	Lower	Upper
61	100		
96	86.7	37.9	97.9
98	50.8	12.7	72.7

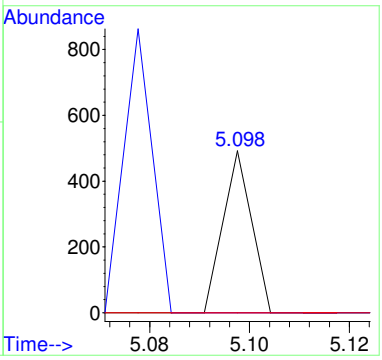


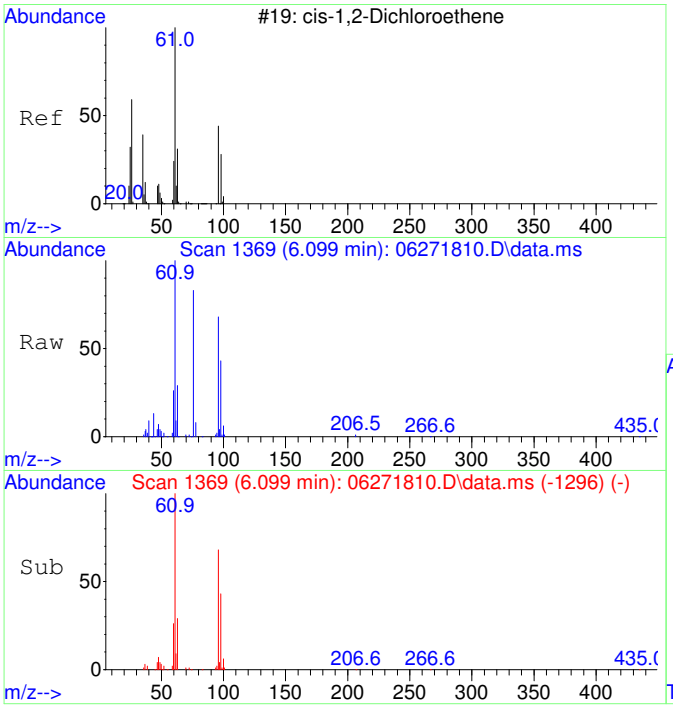


#28
1,1-Dichloroethane SCAN
Concen: 32.11 ug/L
RT: 5.098 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 63 Resp: 196

Ion	Ratio	Lower	Upper
63	100		
65	175.0	7.5	67.5#
83	0.0	0.0	34.3

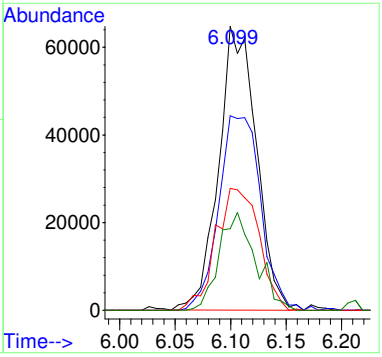


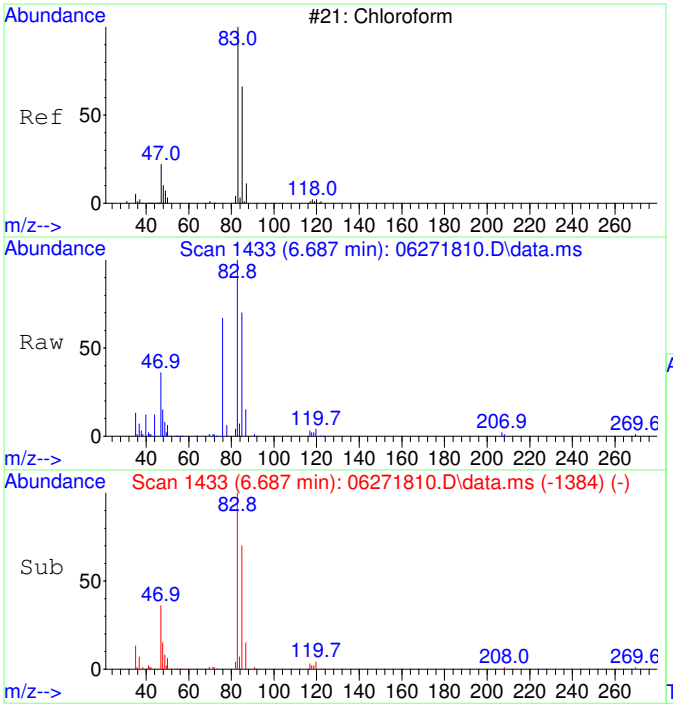


#29
cis-1,2-Dichloroethene SCAN
Concen: 29076.34 ug/L
RT: 6.099 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 61 Resp: 153500

Ion	Ratio	Lower	Upper
61	100		
96	76.4	28.2	88.2
98	49.4	14.1	74.1
63	33.4	1.5	61.5

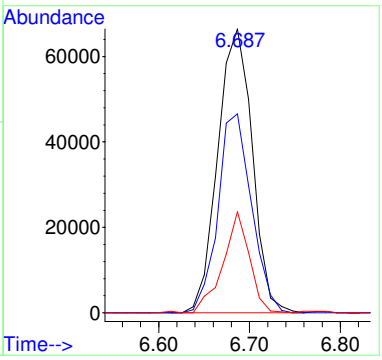


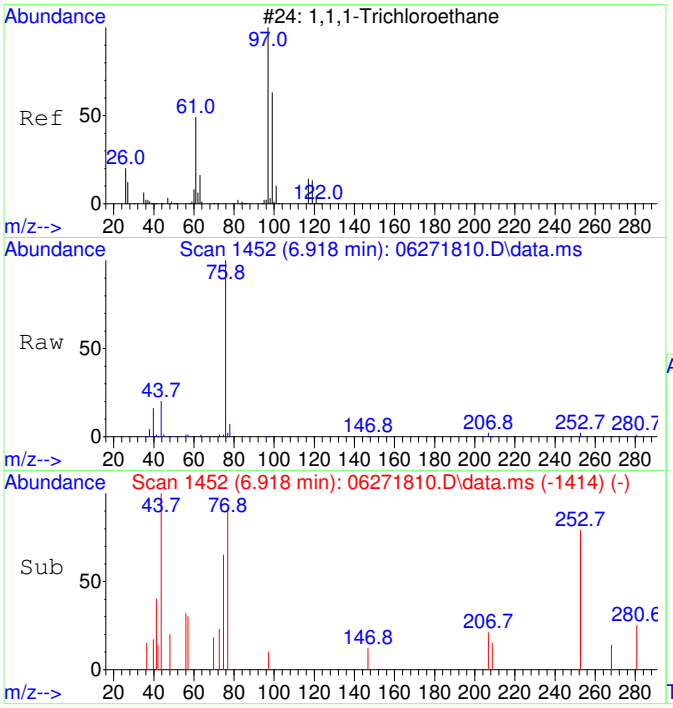


#30
Chloroform SCAN
Concen: 27145.33 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. -0.012 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 83 Resp: 175899

Ion	Ratio	Lower	Upper
83	100		
85	68.3	32.6	92.6
47	27.4	0.0	57.9

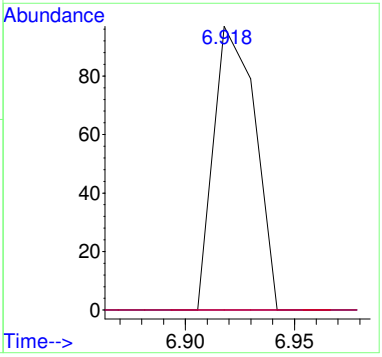


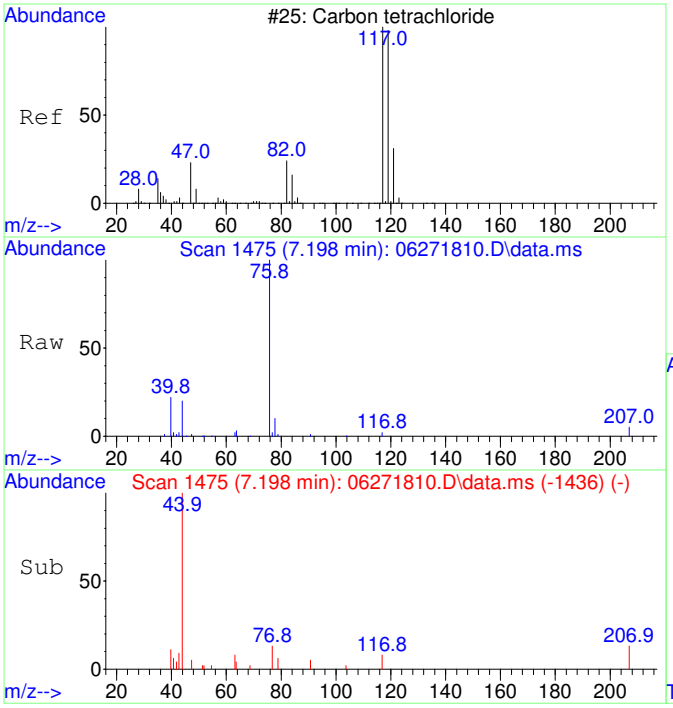


#31
1,1,1-Trichloroethane SCAN
Concen: 22.19 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.037 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 97 Resp: 128

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

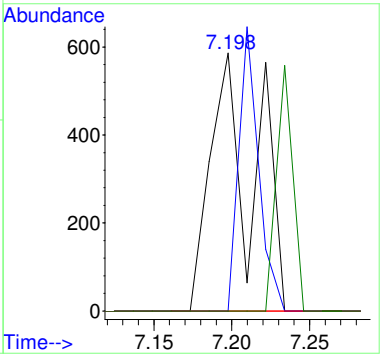


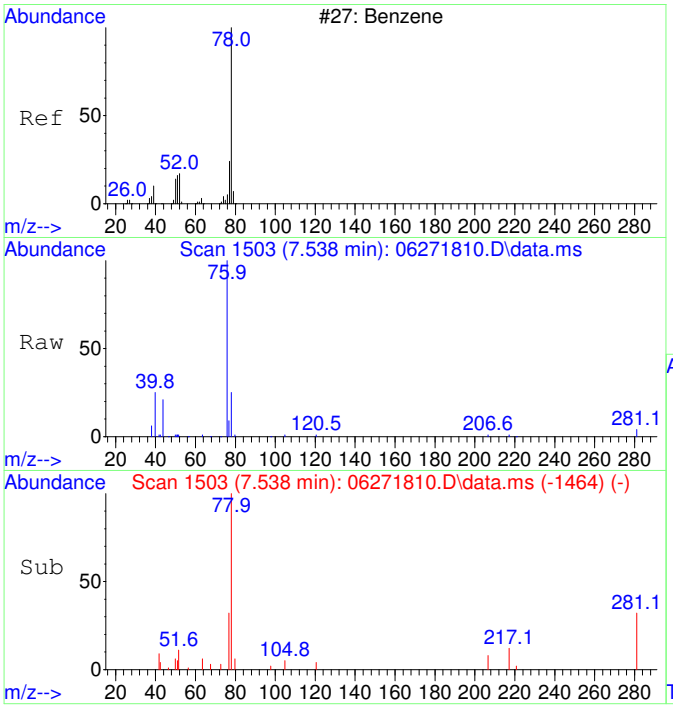


#32
Carbon tetrachloride SCAN
Concen: 199.70 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. -0.024 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:117 Resp: 1135

Ion	Ratio	Lower	Upper
117	100		
119	50.6	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

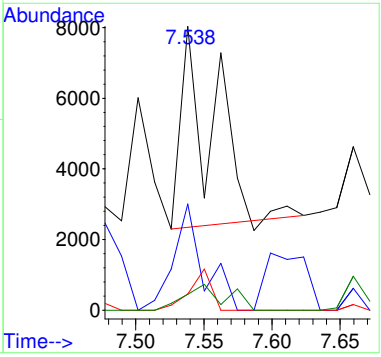


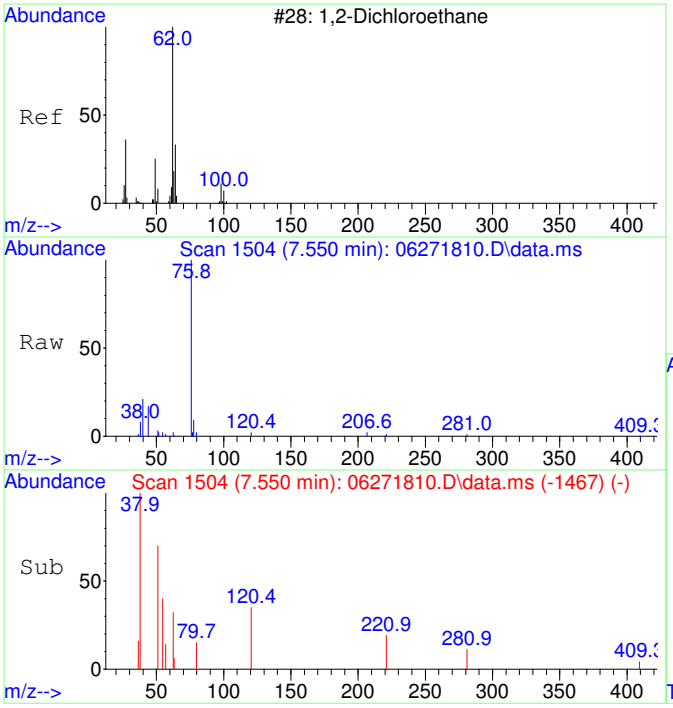


#33
Benzene SCAN
Concen: 550.88 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.024 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 78 Resp: 9476

Ion	Ratio	Lower	Upper
78	100		
77	48.8	3.0	63.0
51	13.7	0.0	56.4
52	16.6	0.0	48.0

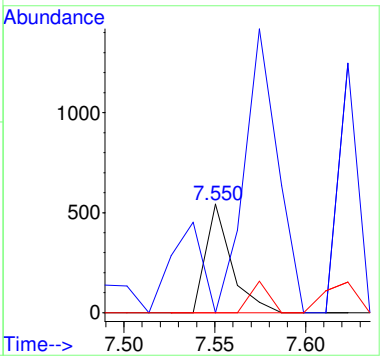


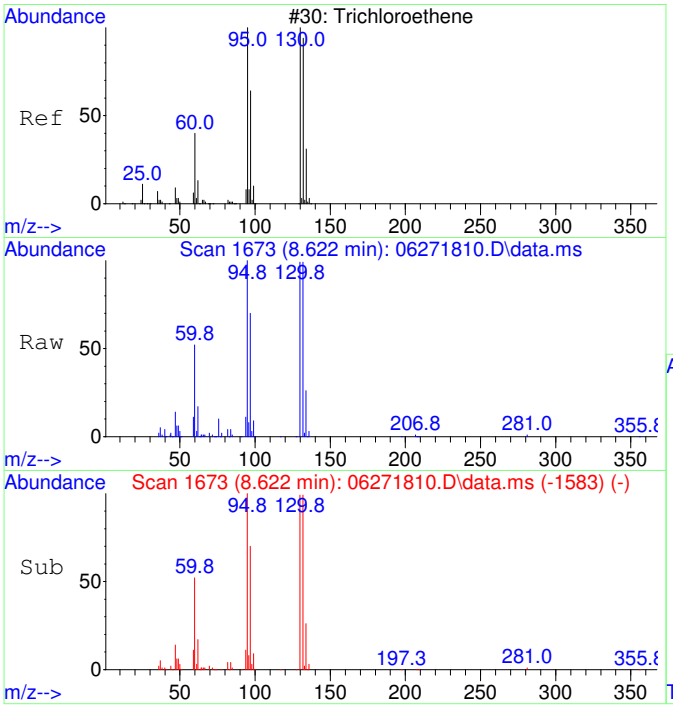


#34
1,2-Dichloroethane SCAN
Concen: 91.20 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.049 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 62 Resp: 535

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

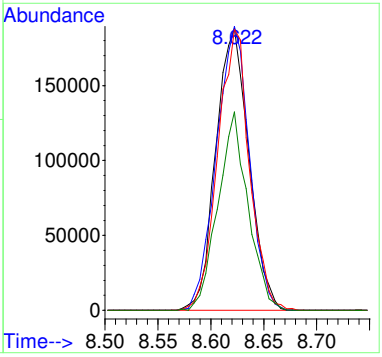


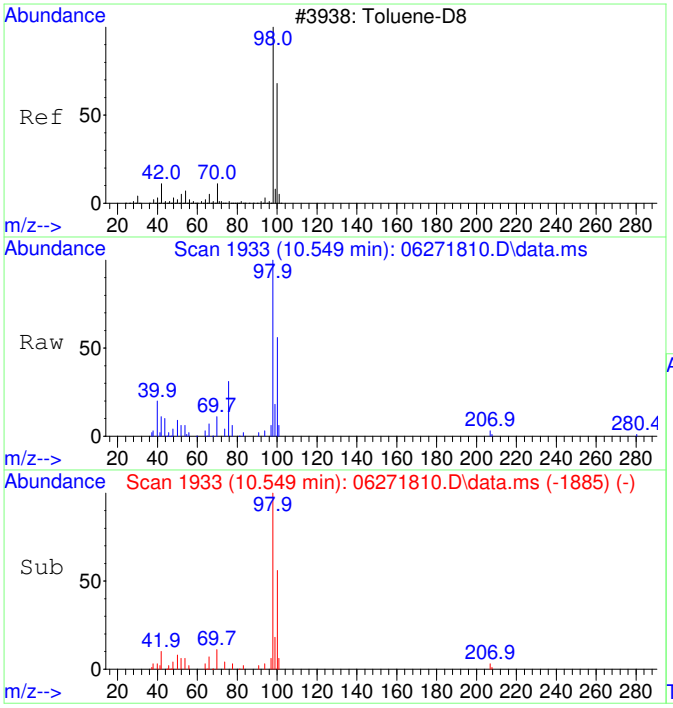


#35
Trichloroethene SCAN
Concen: 96969.30 ug/L
RT: 8.622 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:130 Resp: 408176

Ion	Ratio	Lower	Upper
130	100		
95	100.3	70.5	130.5
132	95.4	63.8	123.8
97	64.0	34.8	94.8

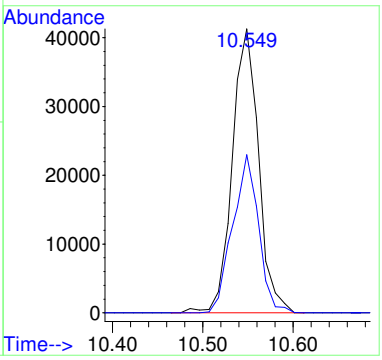


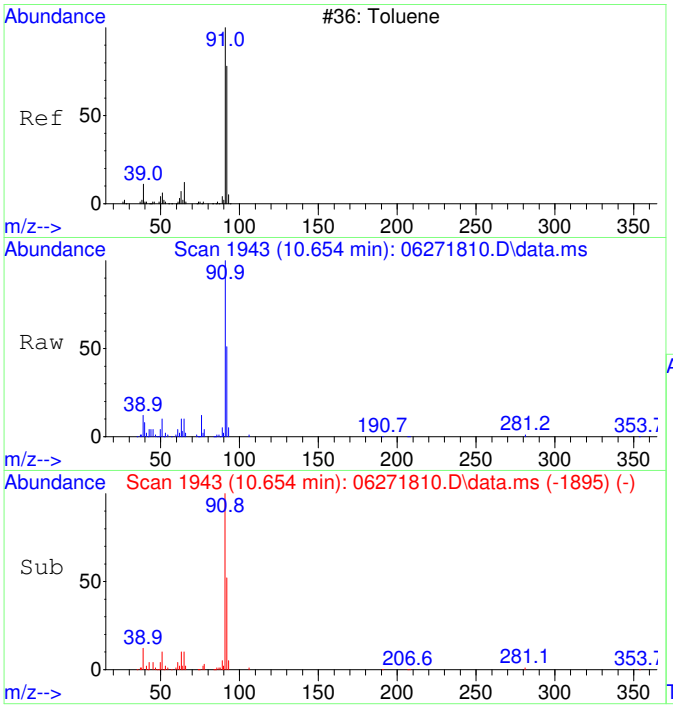


#36
Toluene-d8 SCAN
Concen: 5609.01 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 98 Resp: 83749

Ion	Ratio	Lower	Upper
98	100		
100	54.8	39.5	99.5

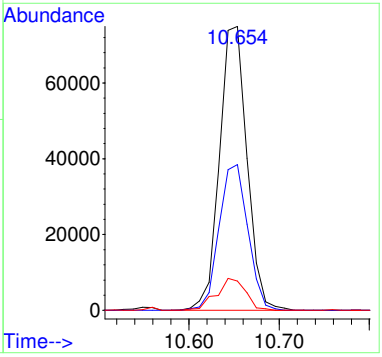


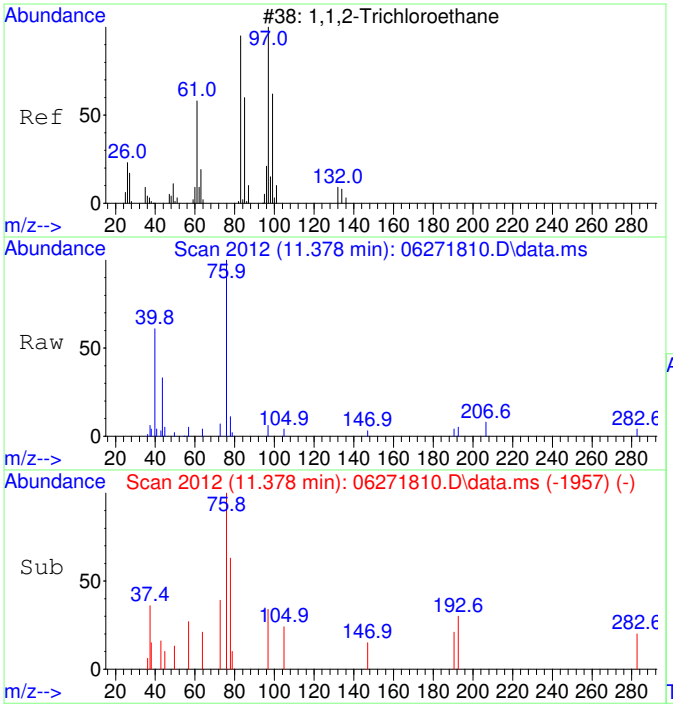


#37
Toluene SCAN
Concen: 8343.50 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 159136

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.6	86.6
65	12.0	0.0	42.3

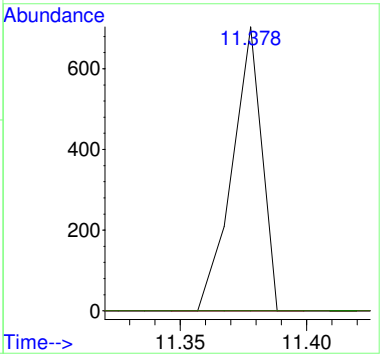


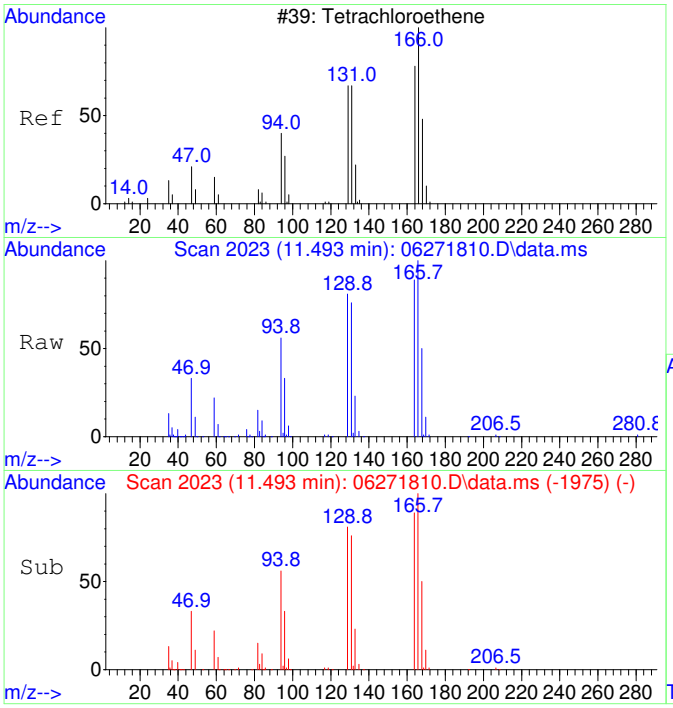


#38
1,1,2-Trichloroethane SCAN
Concen: 157.33 ug/L
RT: 11.378 min Scan# 2012
Delta R.T. 0.073 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 97 Resp: 575

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#

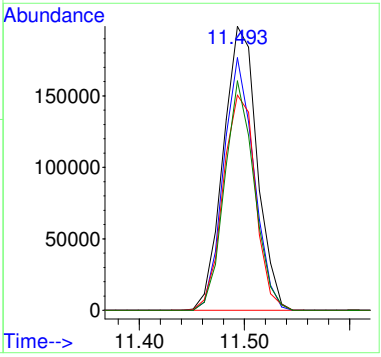


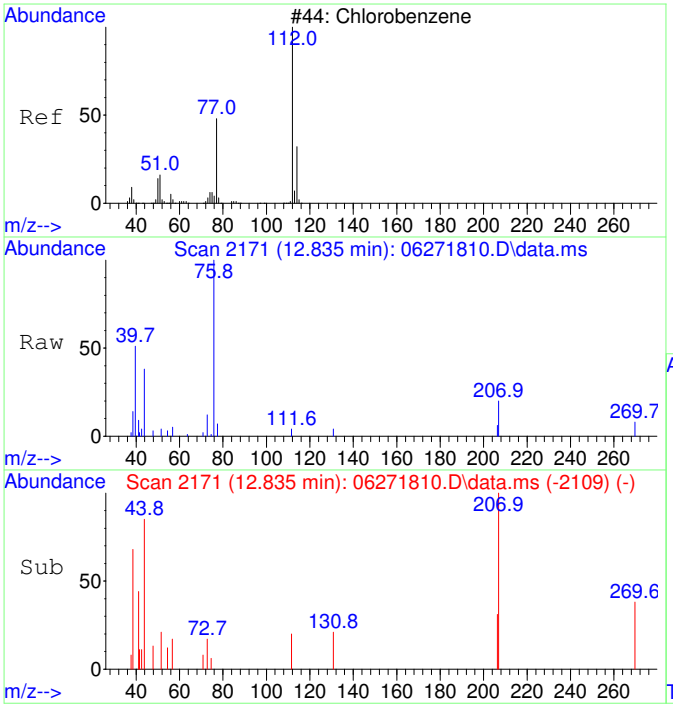


#39
Tetrachloroethene SCAN
Concen: 106072.13 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:166 Resp: 443948

Ion	Ratio	Lower	Upper
166	100		
164	79.6	43.3	103.3
131	72.5	35.6	95.6
129	70.9	36.6	96.6

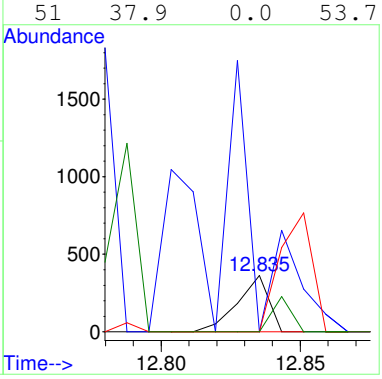


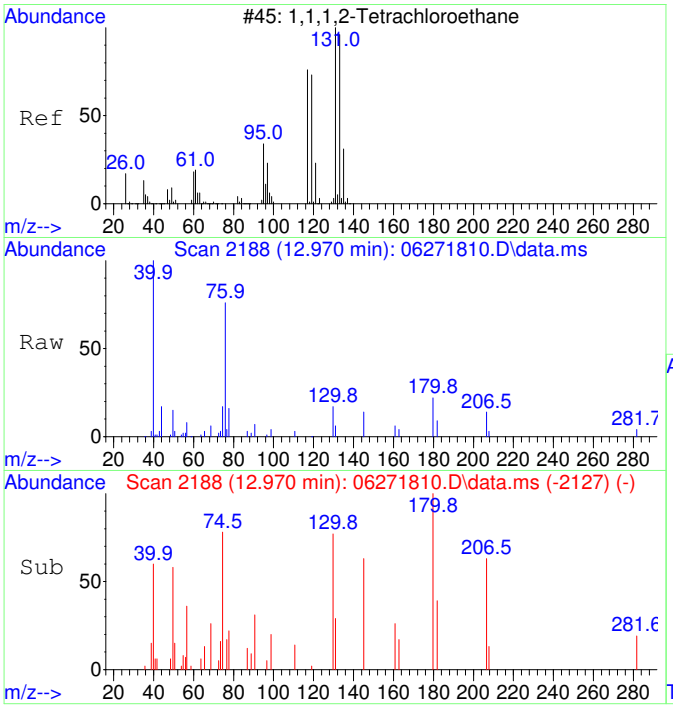


#40
Chlorobenzene SCAN
Concen: 24.63 ug/L
RT: 12.835 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:112 Resp: 285

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.4	88.4#
114	218.9	0.0	59.5#
51	37.9	0.0	53.7

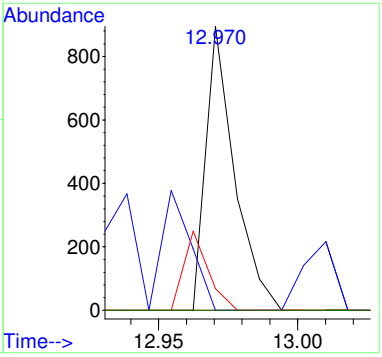


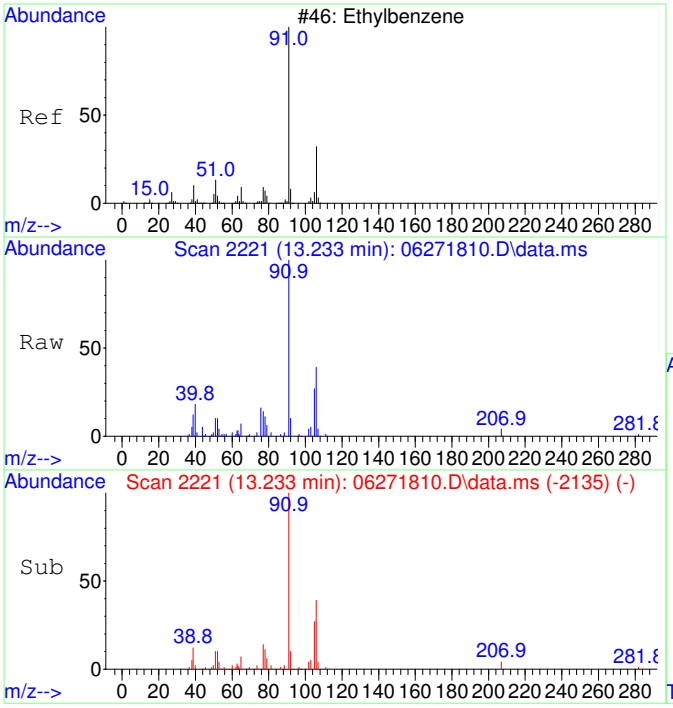


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 155.45 ug/L
RT: 12.970 min Scan# 2188
Delta R.T. -0.016 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:131 Resp: 642

Ion	Ratio	Lower	Upper
131	100		
133	0.0	56.7	116.7#
119	23.7	37.9	97.9#
117	0.0	28.2	88.2#

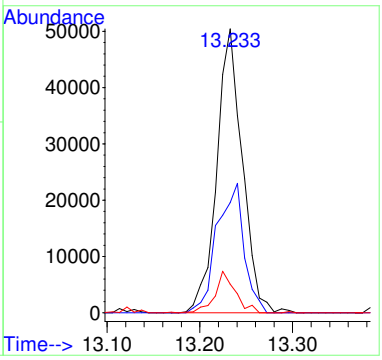


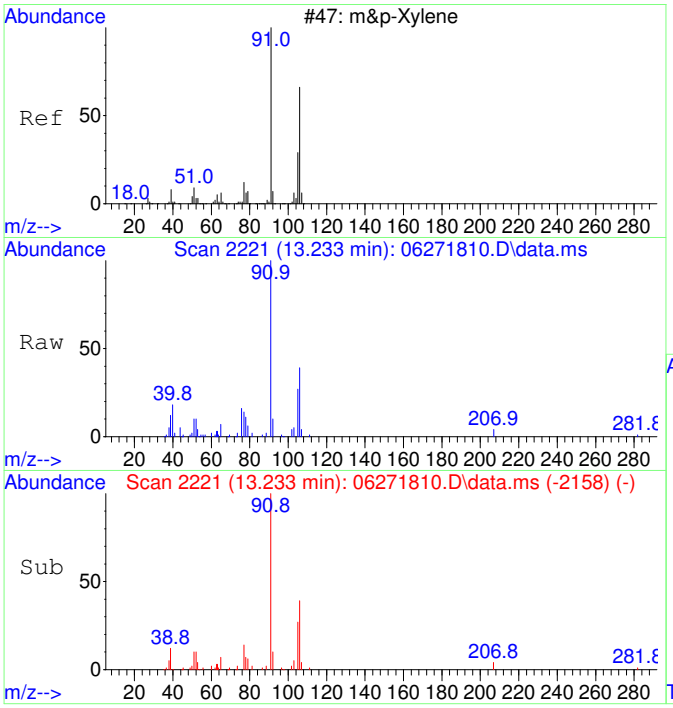


#42
Ethylbenzene SCAN
Concen: 4379.58 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.183 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 97096

Ion	Ratio	Lower	Upper
91	100		
106	48.2	3.2	63.2
51	11.6	0.0	40.1

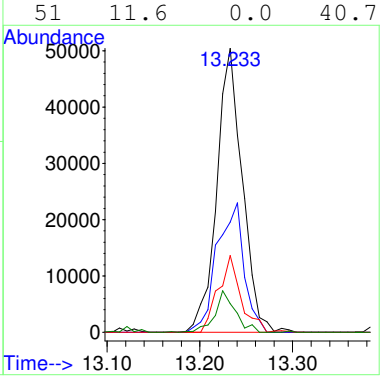


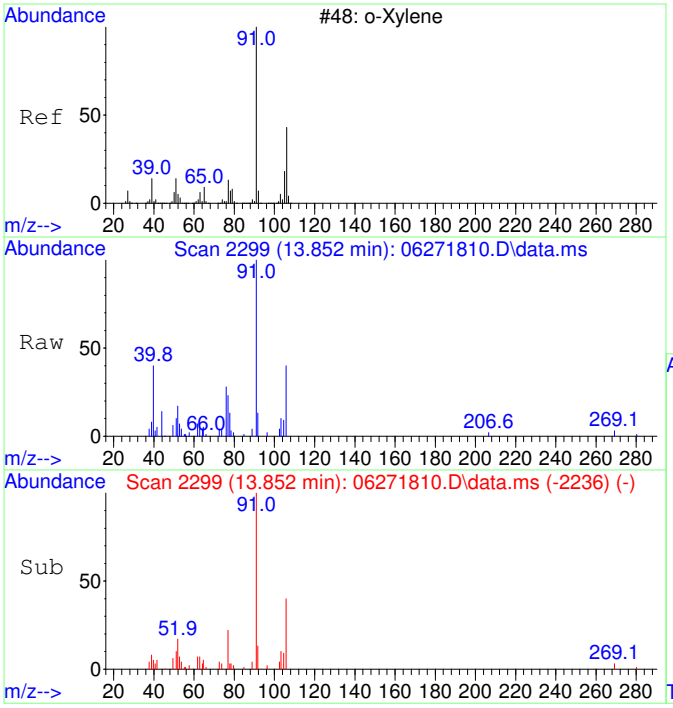


#43
m&p-Xylene SCAN
Concen: 3155.18 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 97096

Ion	Ratio	Lower	Upper
91	100		
106	48.2	20.1	80.1
105	24.1	0.0	51.1
51	11.6	0.0	40.7

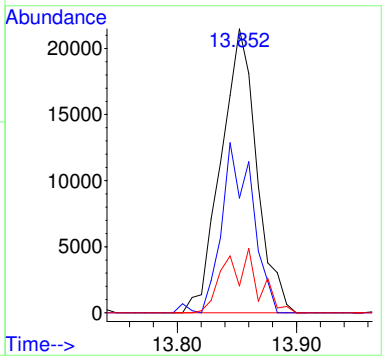


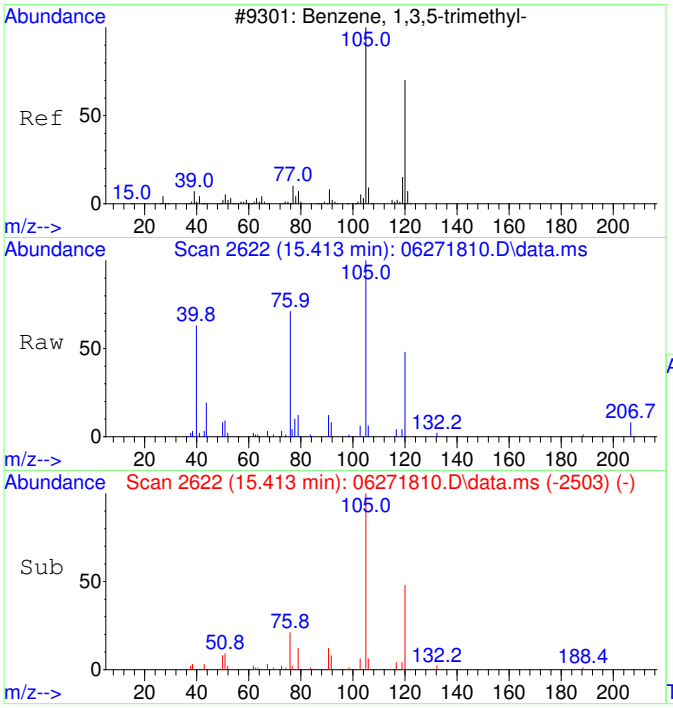


#44
o-Xylene SCAN
Concen: 2559.83 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion: 91 Resp: 44836

Ion	Ratio	Lower	Upper
91	100		
106	52.1	21.3	81.3
105	21.1	0.0	55.2

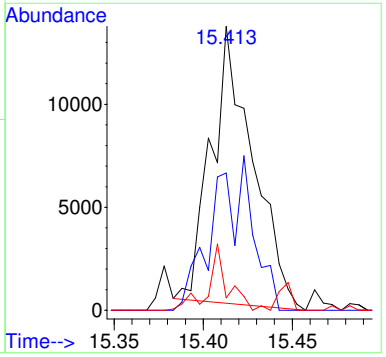


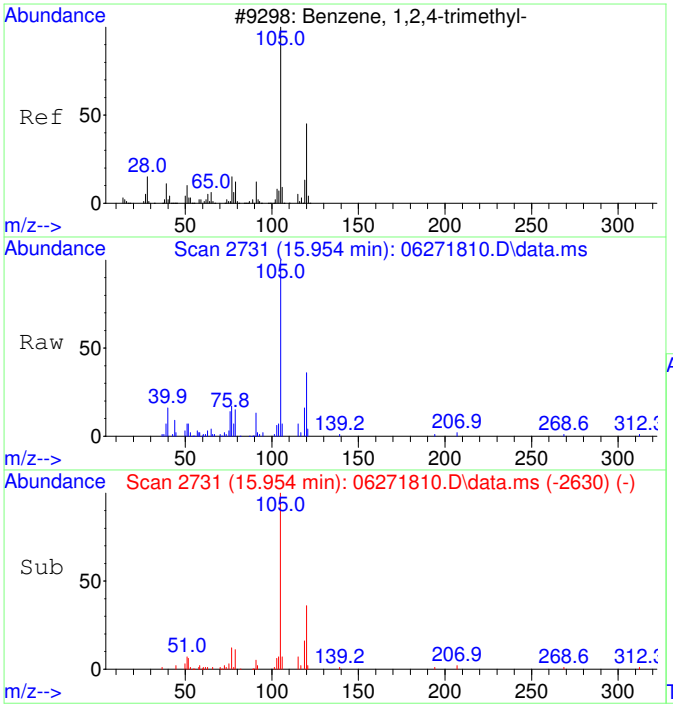


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1257.19 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:105 Resp: 21833

Ion	Ratio	Lower	Upper
105	100		
120	53.5	16.8	76.8
119	10.7	0.0	41.5

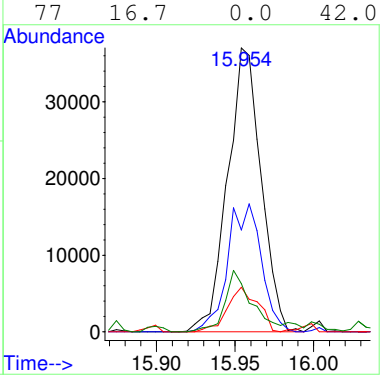


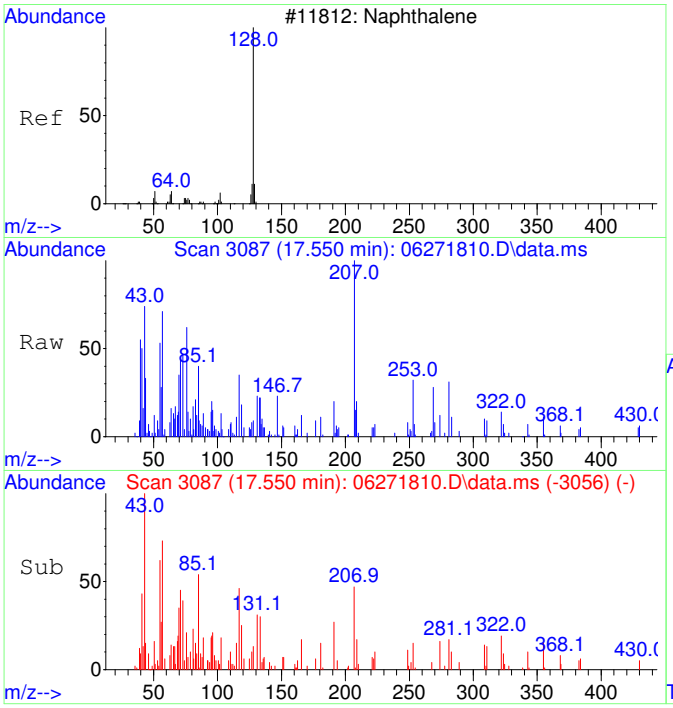


#47
1,2,4-Trimethylbenzene SCAN
Concen: 3077.44 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. -0.000 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:105 Resp: 54772

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.4	75.4
119	14.3	0.0	41.7
77	16.7	0.0	42.0

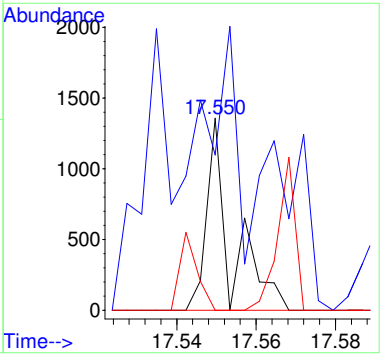




#48
Naphthalene SCAN
Concen: 22.92 ug/L
RT: 17.550 min Scan# 3087
Delta R.T. -0.385 min
Lab File: 06271810.D
Acq: 27 Jun 2018 13:04

Tgt Ion:128 Resp: 582

Ion	Ratio	Lower	Upper
128	100		
127	42.4	0.0	43.9
129	28.9	0.0	40.5



1806075-02

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271811.D
Acq On : 27 Jun 2018 13:28
InstName : AG5975C
Operator : TD
Sample : 1806075-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 13:47:14 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

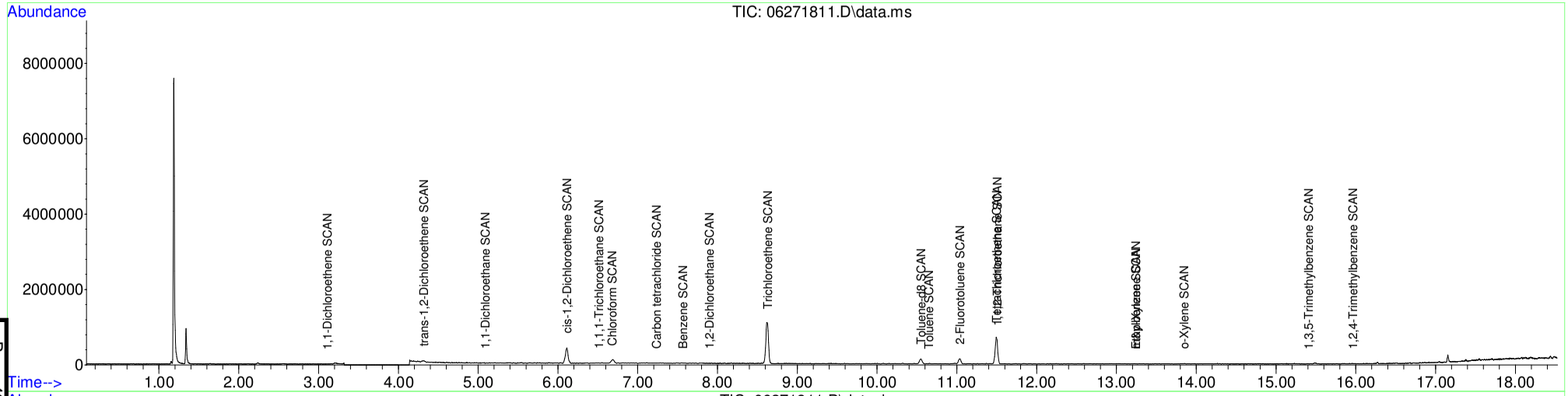
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	191330	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	159091	5119.12 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.38%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	1872	233.47 ug/L	74
3] trans-1,2-Dichloroethene	4.316	61	28386	3317.89 ug/L	100
4] 1,1-Dichloroethane	5.072	63	261	24.51 ug/L OC	73
5] cis-1,2-Dichloroethene	6.107	61	409867	39016.83 ug/L	100
6] Chloroform	6.688	83	134365	11878.91 ug/L	100
7] 1,1,1-Trichloroethane	6.943	97	277	24.88 ug/L	74
8] Carbon tetrachloride	7.211	117	1312	124.41 ug/L	96
9] Benzene	7.552	78	2692	87.63 ug/L	68
10] 1,2-Dichloroethane	7.588	62	288	29.09 ug/L #	1
11] Trichloroethene	8.624	130	710349	84133.67 ug/L OC	99
13] Toluene	10.645	91	5602	134.44 ug/L	99
15] Tetrachloroethene	11.495	166	454373	38703.24 ug/L OC	100
18] Ethylbenzene	13.035	91	1348	26.96 ug/L	86
19] m&p-Xylene	13.226	91	3992	103.44 ug/L	98
20] o-Xylene	13.846	91	3794	92.82 ug/L	97
22] 1,3,5-Trimethylbenzene	15.414	105	1102	23.83 ug/L	96
23] 1,2,4-Trimethylbenzene	15.955	105	1868	40.38 ug/L	98
25) 2-Fluorotoluene SCAN	11.042	109	118574	5318.40 ug/L #	63
26) 1,1-Dichloroethene SCAN	3.111	61	608	109.29 ug/L #	75
27) trans-1,2-Dichloroethe...	4.315	61	20031	3092.70 ug/L	95
28) 1,1-Dichloroethane SCAN	5.091	63	433	52.55 ug/L #	81
29) cis-1,2-Dichloroethene...	6.113	61	286956	40268.48 ug/L	89
30) Chloroform SCAN	6.675	83	96230	11001.72 ug/L #	28
31) 1,1,1-Trichloroethane ...	6.516	97	561	72.05 ug/L #	26
32) Carbon tetrachloride SCAN	7.234	117	201	26.20 ug/L #	13
33) Benzene SCAN	7.562	78	13045	561.82 ug/L #	58
34) 1,2-Dichloroethane SCAN	7.893	62	214	27.03 ug/L #	39
35) Trichloroethene SCAN	8.628	130	436723	76861.95 ug/L	98
36) Toluene-d8 SCAN	10.549	98	94243	4676.00 ug/L	94
37) Toluene SCAN	10.643	91	3378	131.21 ug/L #	55
38) 1,1,2-Trichloroethane ...	11.504	97	3463	701.95 ug/L #	1
39) Tetrachloroethene SCAN	11.493	166	244217	43227.85 ug/L	89
42) Ethylbenzene SCAN	13.241	91	2148	71.78 ug/L	77
43) m&p-Xylene SCAN	13.241	91	2148	51.71 ug/L #	52
44) o-Xylene SCAN	13.844	91	1196	50.59 ug/L #	1
46) 1,3,5-Trimethylbenzene...	15.408	105	732	31.23 ug/L	90
47) 1,2,4-Trimethylbenzene...	15.964	105	834	34.71 ug/L #	73

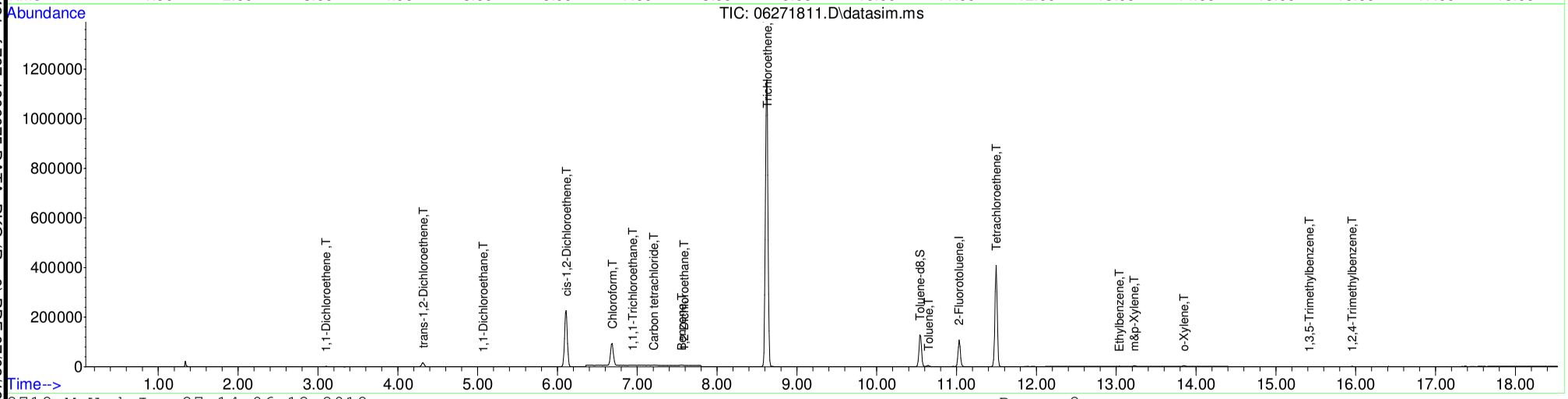
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271811.D
Acq On : 27 Jun 2018 13:28
InstName : AG5975C
Operator : TD
Sample : 1806075-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 13:47:14 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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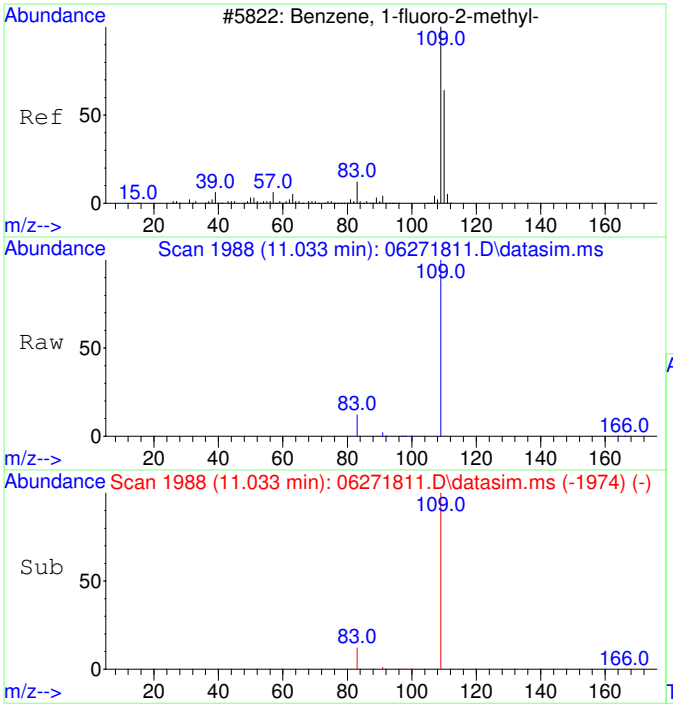
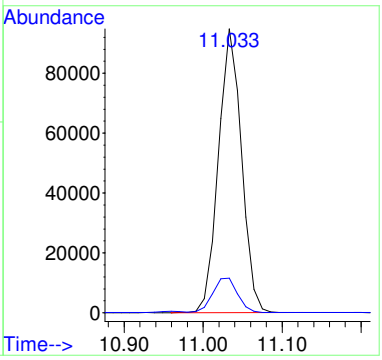
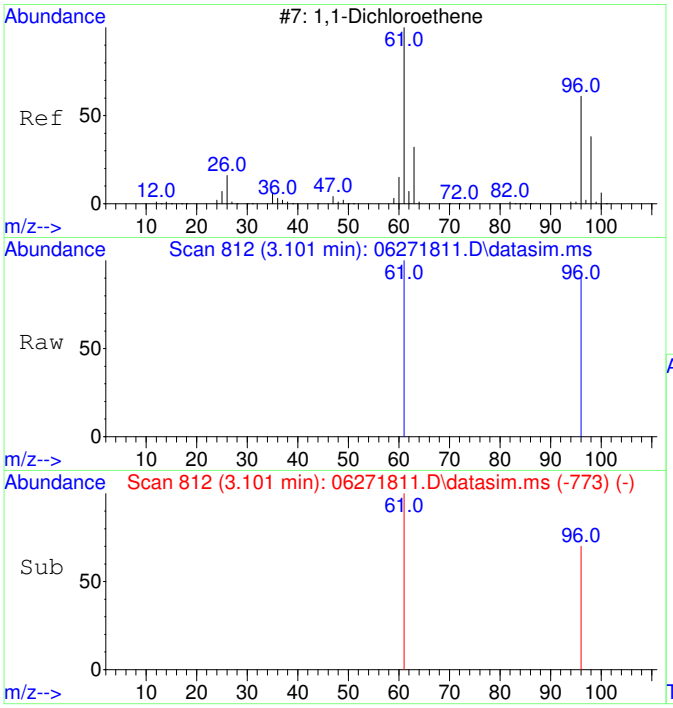


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:109 Resp: 191330

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

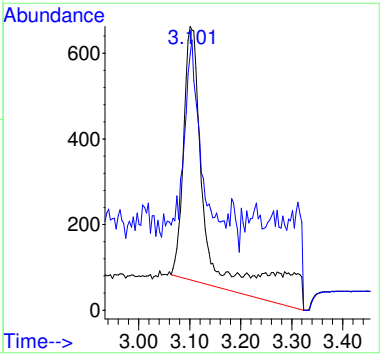




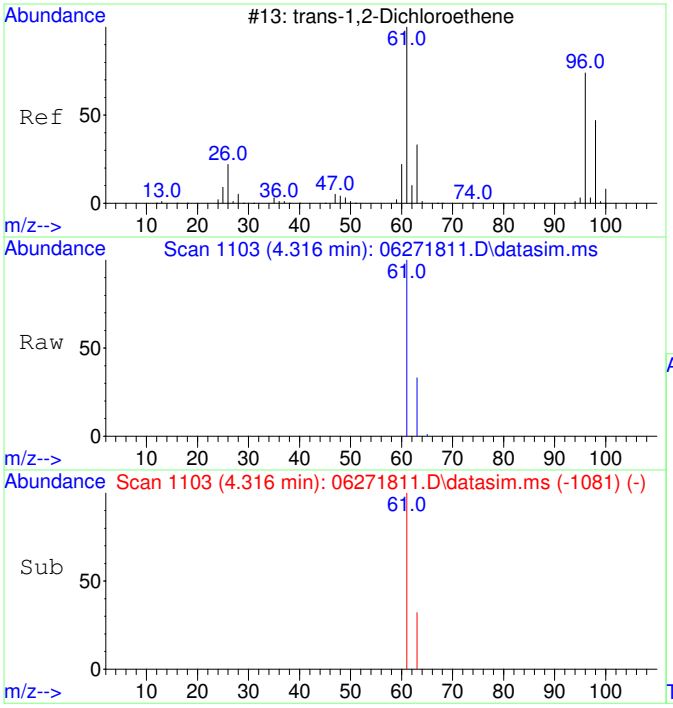
#2
1,1-Dichloroethene
Concen: 233.47 ug/L
RT: 3.101 min Scan# 812
Delta R.T. -0.004 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 1872

Ion	Ratio	Lower	Upper
61	100		
96	78.0	28.7	88.7



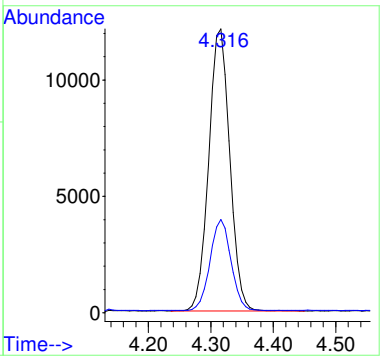
Before MI:
IMPROPER
BASELINE

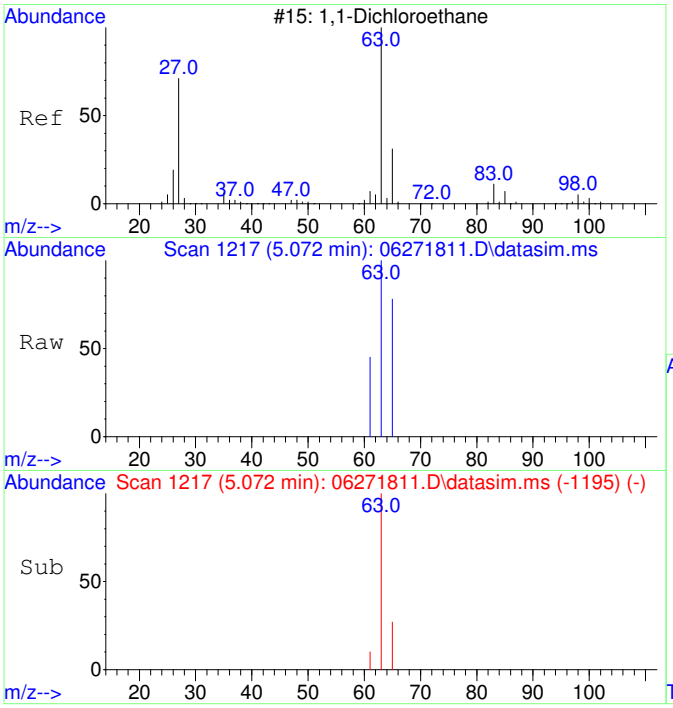


#3
trans-1,2-Dichloroethene
Concen: 3317.89 ug/L
RT: 4.316 min Scan# 1103
Delta R.T. -0.007 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 28386

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.0	62.0

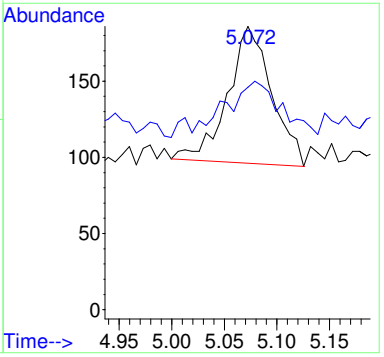


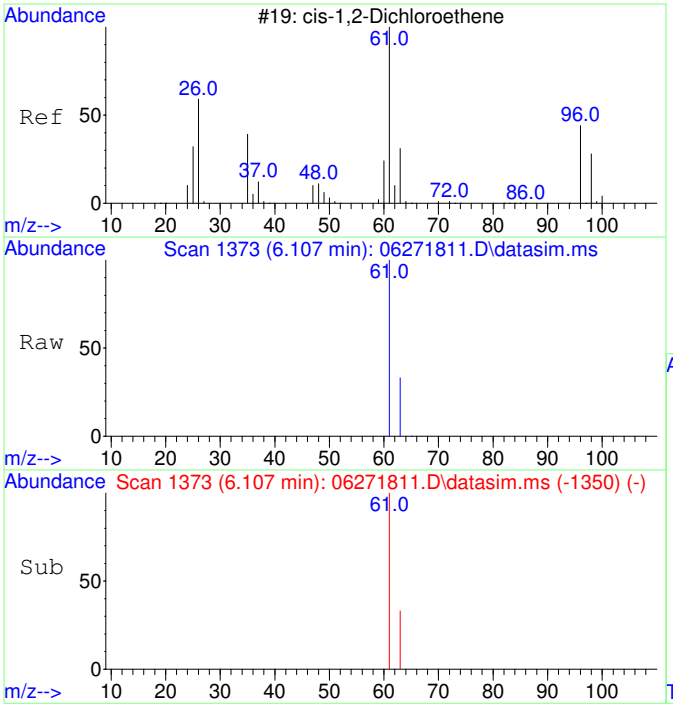


#4
1,1-Dichloroethane
Concen: 24.51 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.007 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 63 Resp: 261

Ion	Ratio	Lower	Upper
63	100		
65	46.4	1.5	61.5

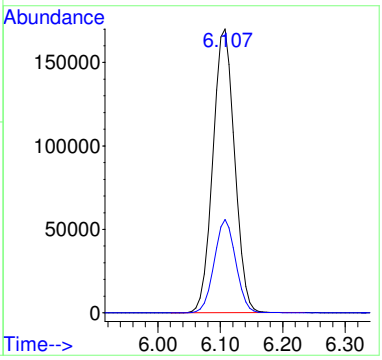


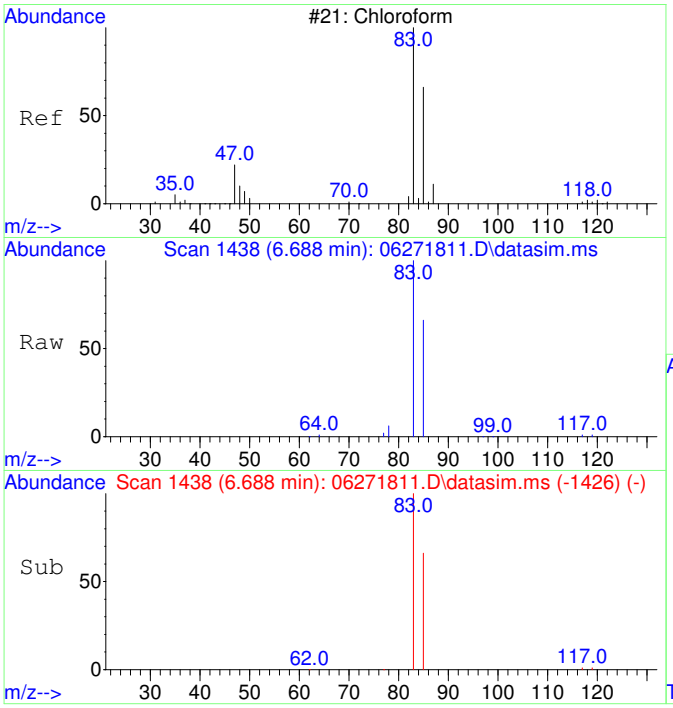


#5
cis-1,2-Dichloroethene
Concen: 39016.83 ug/L
RT: 6.107 min Scan# 1373
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 409867

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.2	62.2

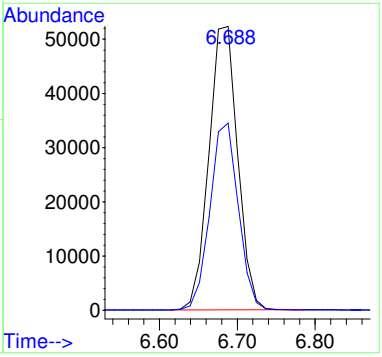


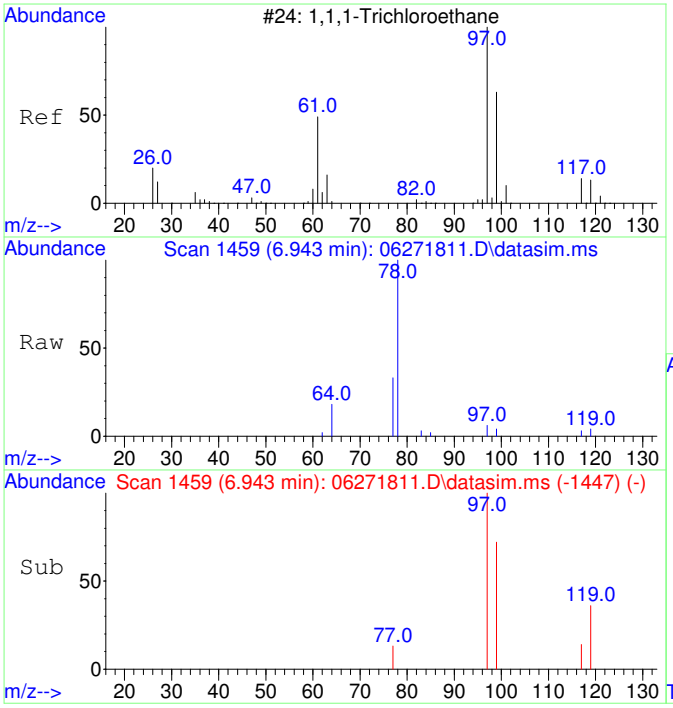


#6
Chloroform
Concen: 11878.91 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 83 Resp: 134365

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.8	94.8

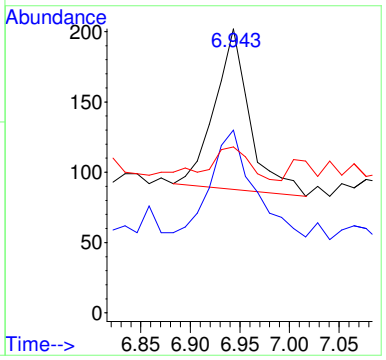


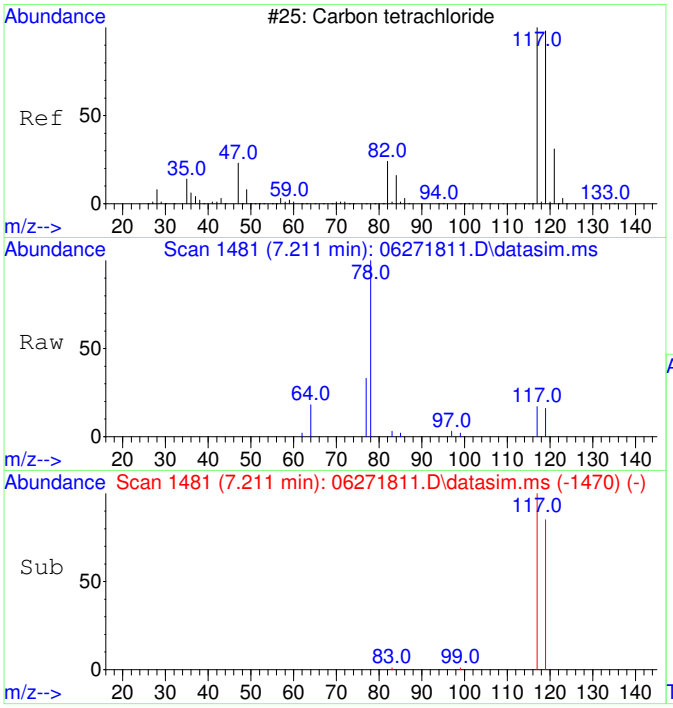


#7
1,1,1-Trichloroethane
Concen: 24.88 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 97 Resp: 277

Ion	Ratio	Lower	Upper
97	100		
99	83.8	34.6	94.6
117	27.4	0.0	42.9

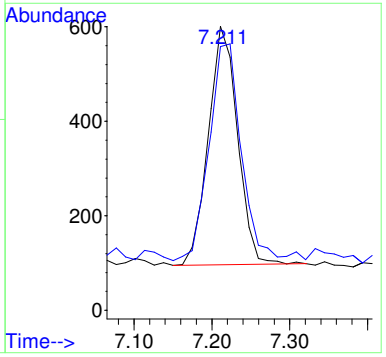


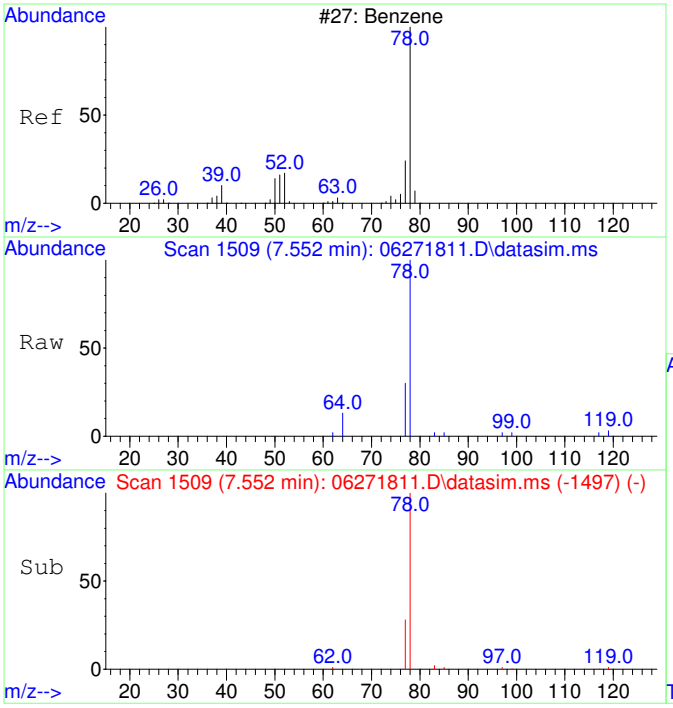


#8
Carbon tetrachloride
Concen: 124.41 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:117 Resp: 1312

Ion	Ratio	Lower	Upper
117	100		
119	100.0	65.9	125.9

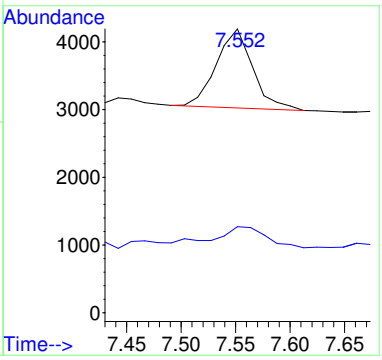


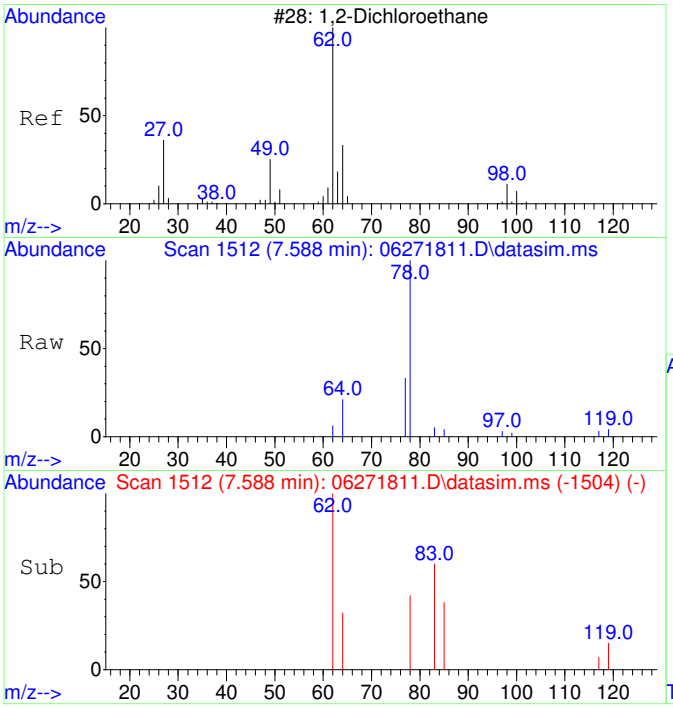


#9
Benzene
Concen: 87.63 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 78 Resp: 2692

Ion	Ratio	Lower	Upper
78	100		
77	38.7	0.0	53.0

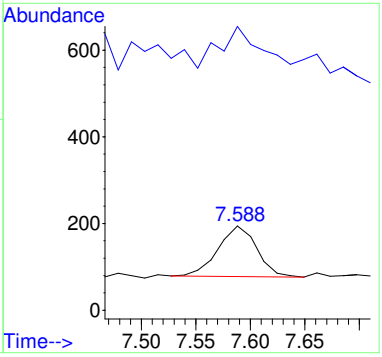


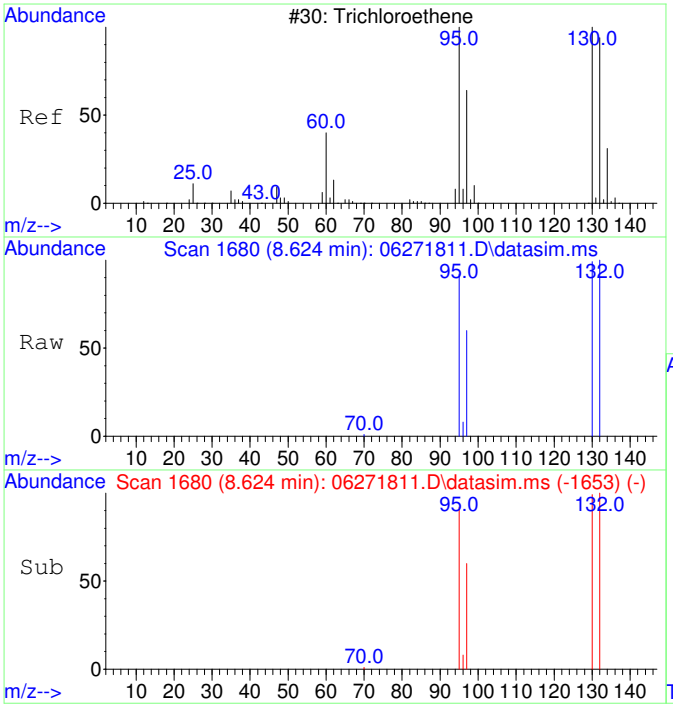


#10
1,2-Dichloroethane
Concen: 29.09 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 62 Resp: 288

Ion	Ratio	Lower	Upper
62	100		
64	122.6	2.3	62.3#

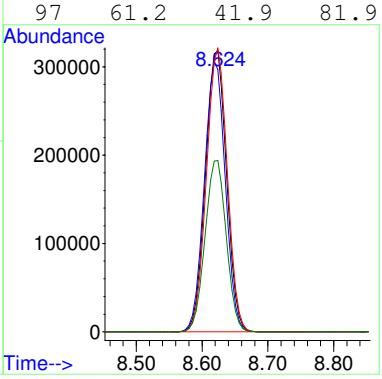


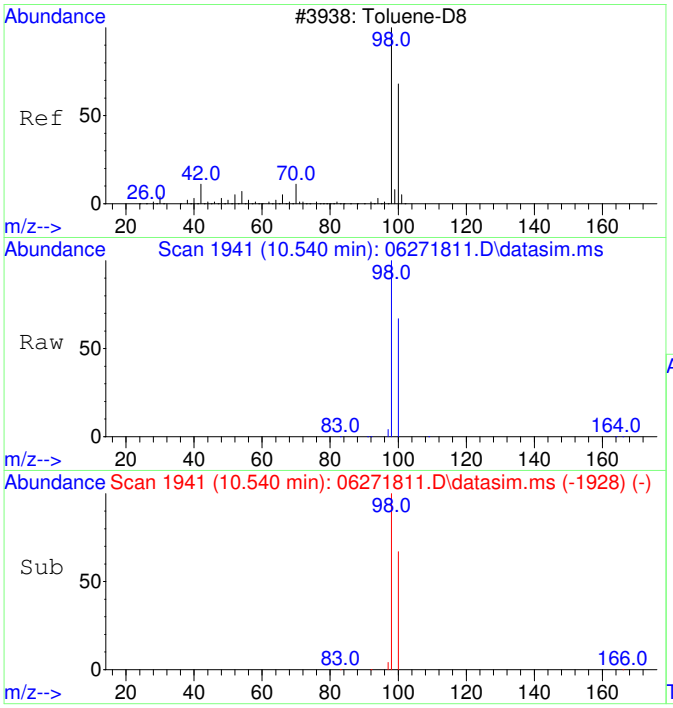


#11
Trichloroethene
Concen: 84133.67 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.006 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:130 Resp: 710349

Ion	Ratio	Lower	Upper
130	100		
95	95.5	66.0	126.0
132	99.6	78.8	118.8
97	61.2	41.9	81.9

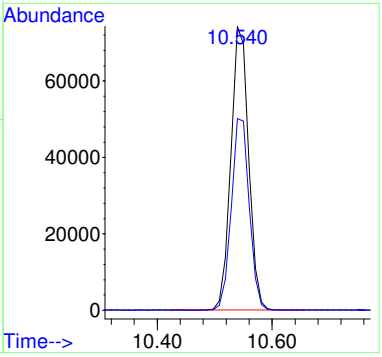


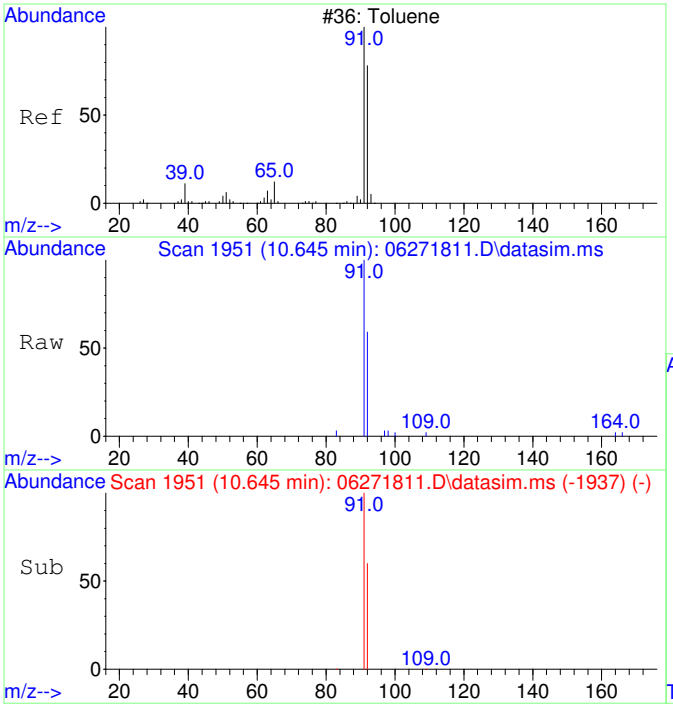


#12
Toluene-d8
Concen: 5119.12 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 98 Resp: 159091

Ion	Ratio	Lower	Upper
98	100		
100	68.3	38.7	98.7

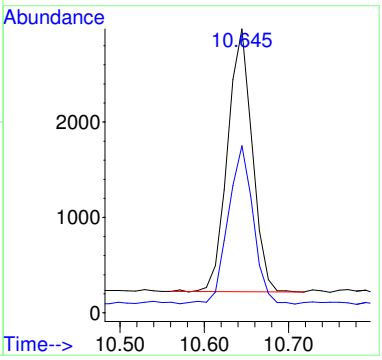


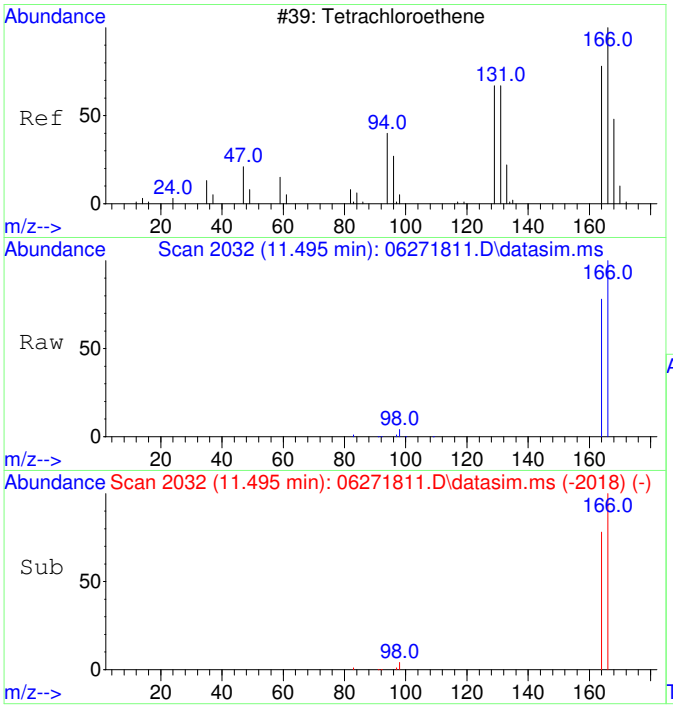


#13
Toluene
Concen: 134.44 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 5602

Ion	Ratio	Lower	Upper
91	100		
92	60.8	30.0	90.0

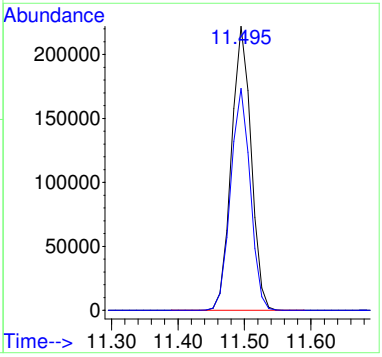


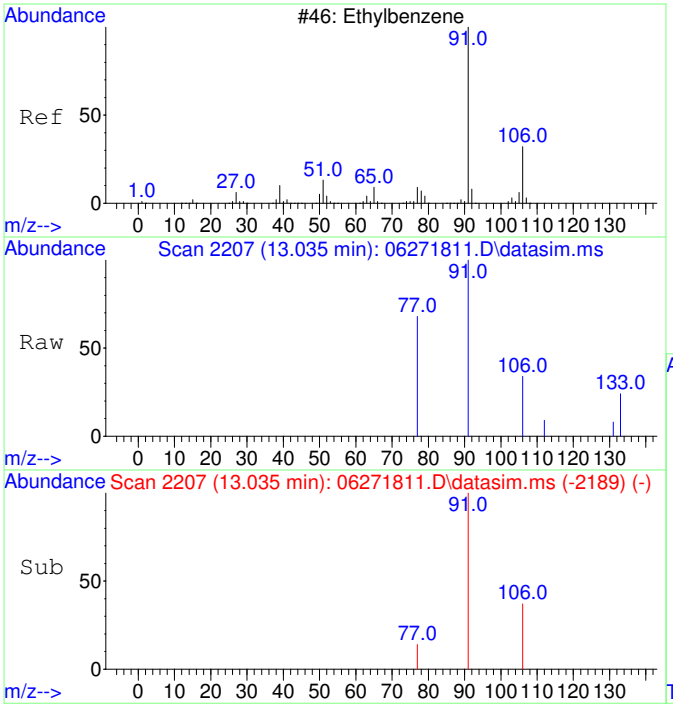


#15
Tetrachloroethene
Concen: 38703.24 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:166 Resp: 454373

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

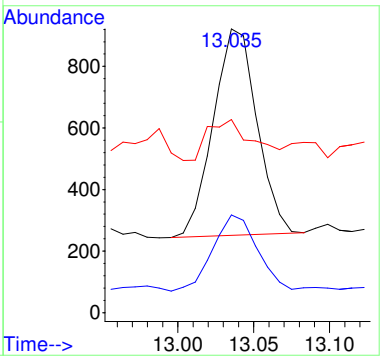


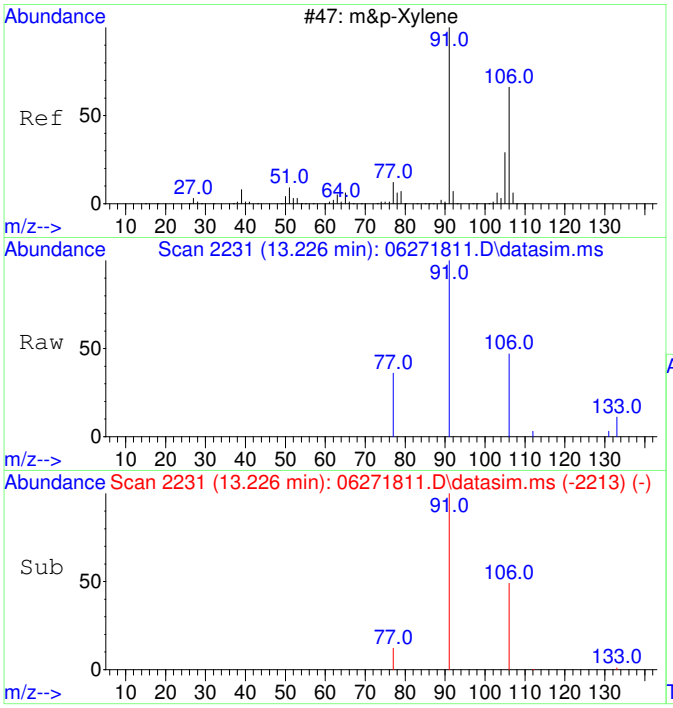


#18
Ethylbenzene
Concen: 26.96 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 1348

Ion	Ratio	Lower	Upper
91	100		
106	38.0	2.8	62.8
77	20.3	0.0	38.6

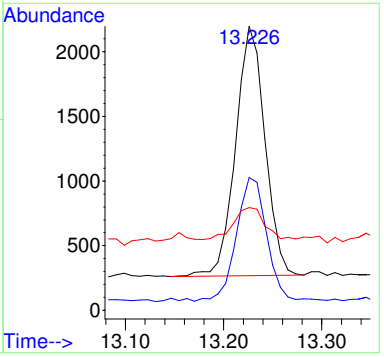


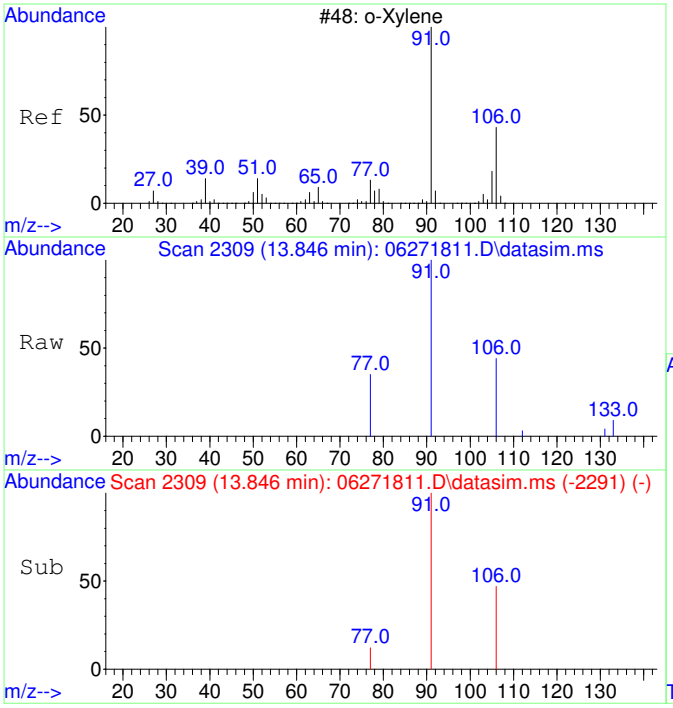


#19
m&p-Xylene
Concen: 103.44 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 3992

Ion	Ratio	Lower	Upper
91	100		
106	50.7	21.2	81.2
77	14.9	0.0	42.9

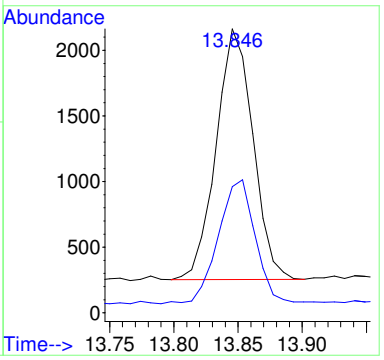


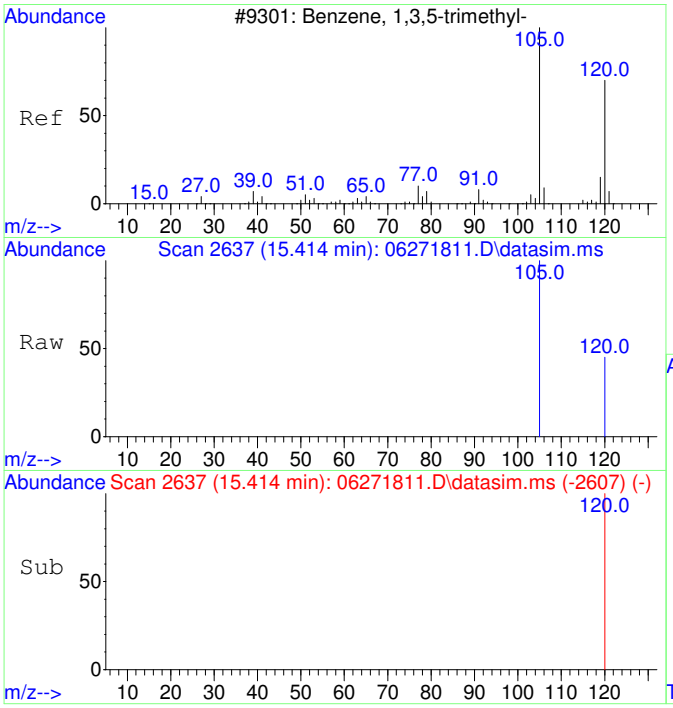


#20
o-Xylene
Concen: 92.82 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 3794

Ion	Ratio	Lower	Upper
91	100		
106	50.2	18.3	78.3

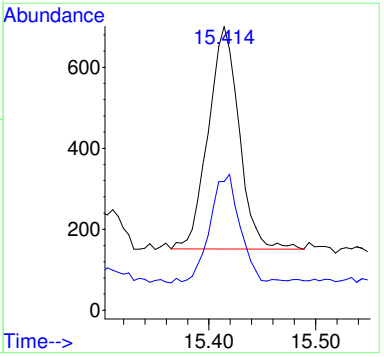


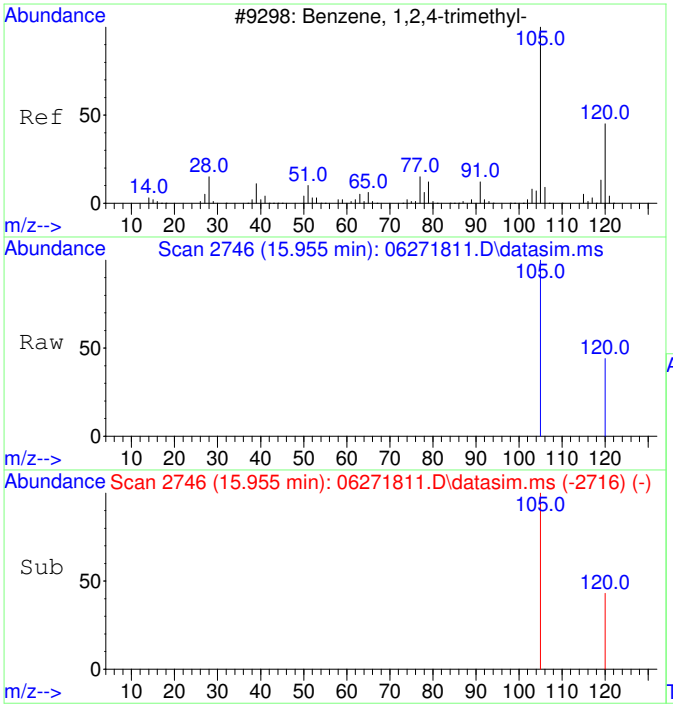


#22
1,3,5-Trimethylbenzene
Concen: 23.83 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:105 Resp: 1102

Ion	Ratio	Lower	Upper
105	100		
120	46.4	19.1	79.1

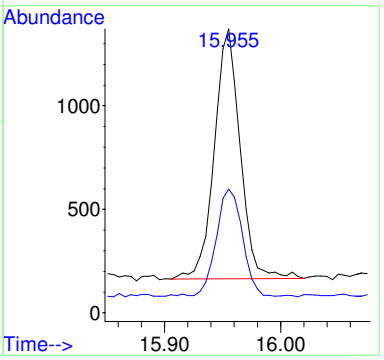


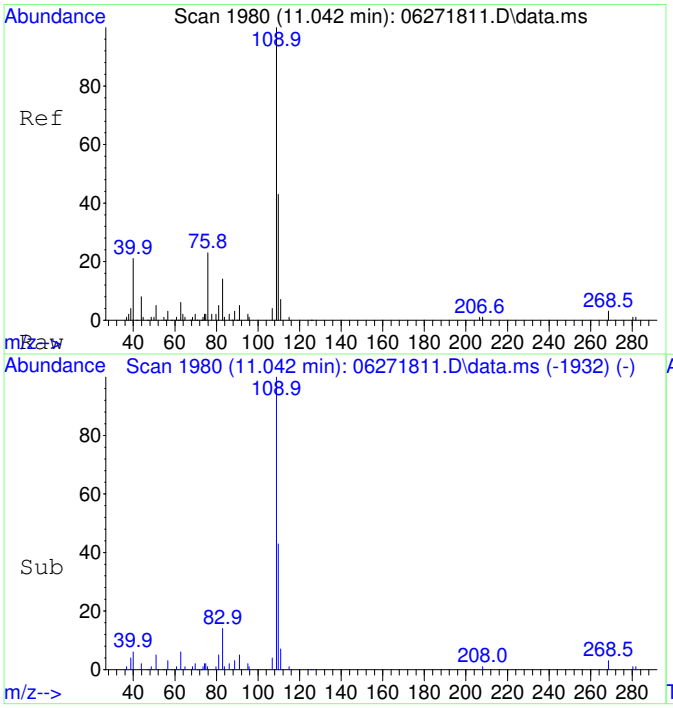


#23
1,2,4-Trimethylbenzene
Concen: 40.38 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:105 Resp: 1868

Ion	Ratio	Lower	Upper
105	100		
120	44.2	15.5	75.5

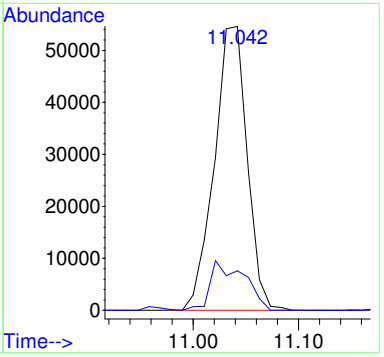


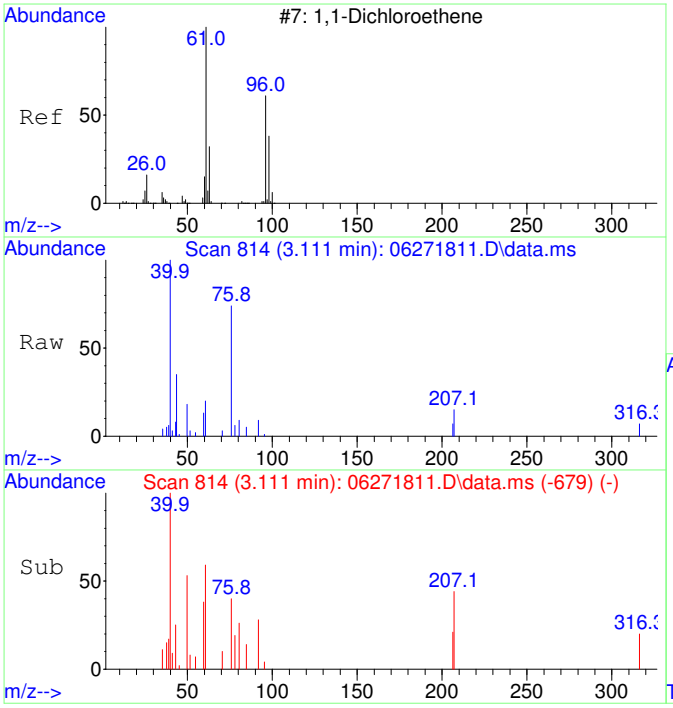


#25
2-Fluorotoluene SCAN
Concen: 5318.40 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:109 Resp: 118574

Ion	Ratio	Lower	Upper
109	100		
83	0.0	0.0	45.7

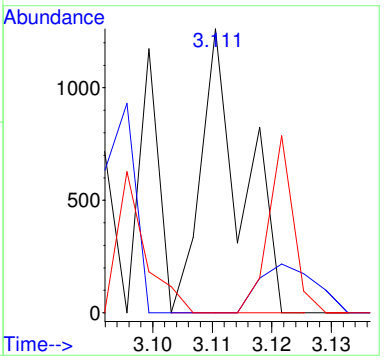


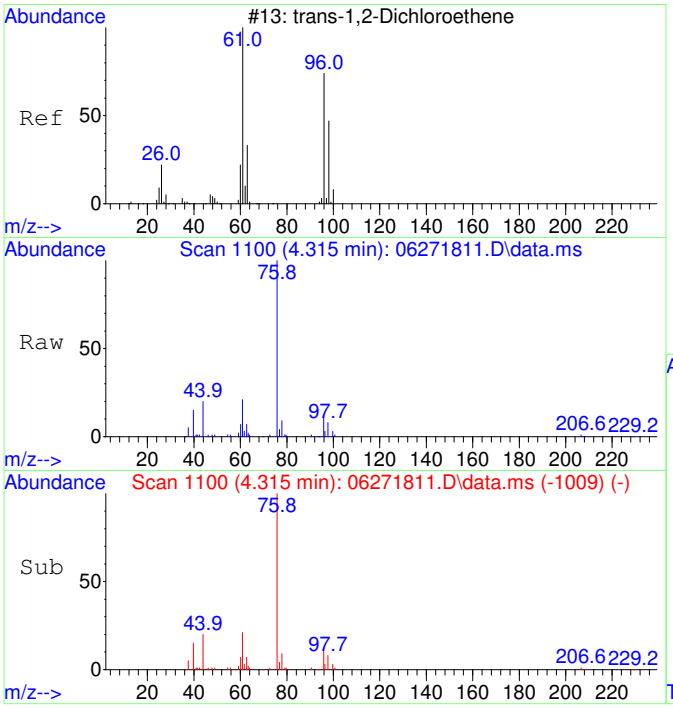


#26
1,1-Dichloroethene SCAN
Concen: 109.29 ug/L
RT: 3.111 min Scan# 814
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 608

Ion	Ratio	Lower	Upper
61	100		
96	23.7	23.8	83.8#
98	38.0	8.8	68.8

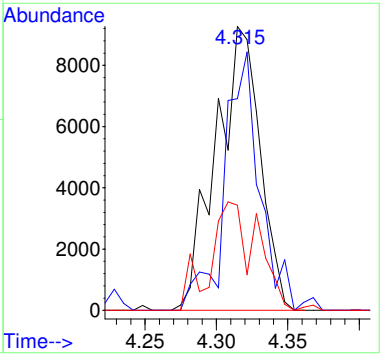


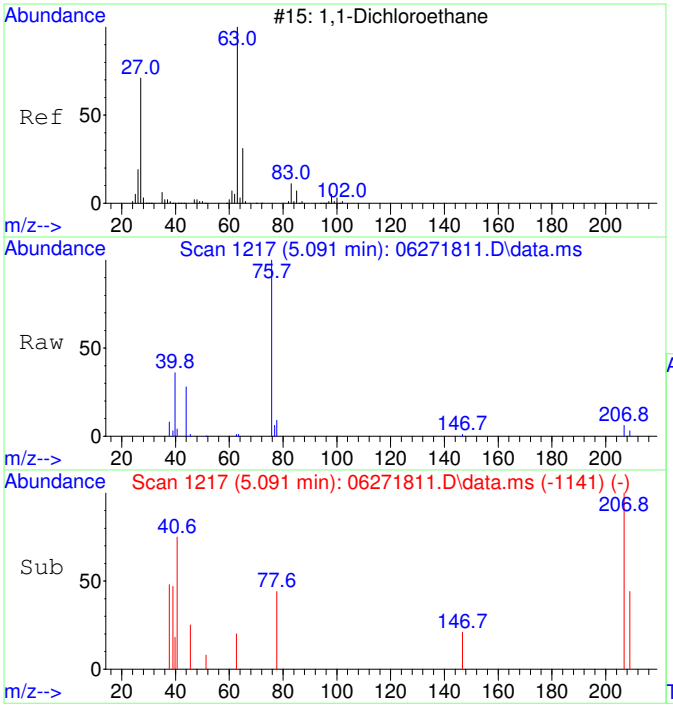


#27
trans-1,2-Dichloroethene SCAN
Concen: 3092.70 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. -0.020 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 20031

Ion	Ratio	Lower	Upper
61	100		
96	72.7	37.9	97.9
98	40.4	12.7	72.7

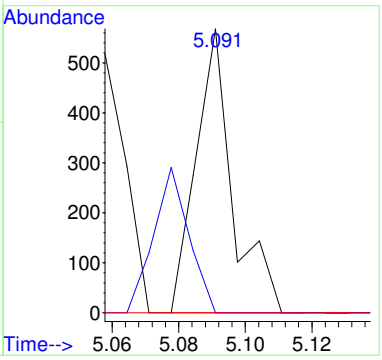


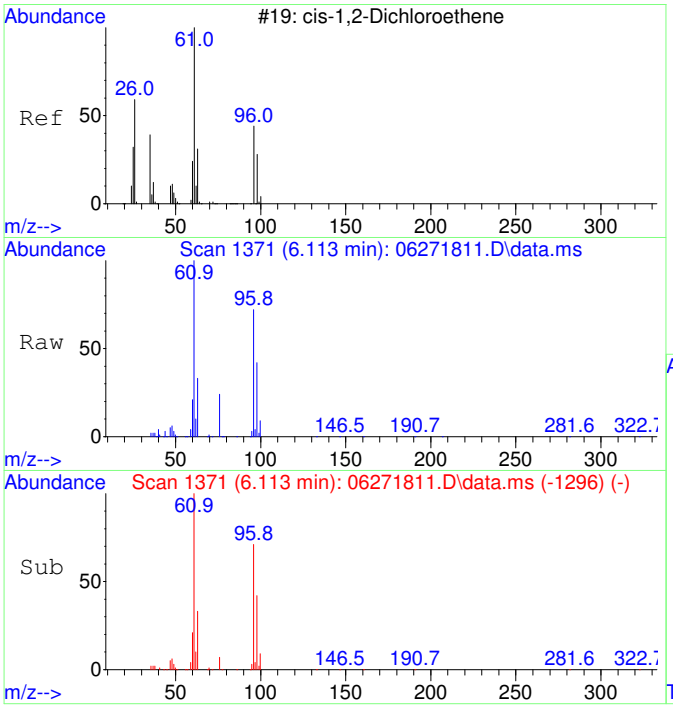


#28
1,1-Dichloroethane SCAN
Concen: 52.55 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 63 Resp: 433

Ion	Ratio	Lower	Upper
63	100		
65	49.2	7.5	67.5
83	0.0	0.0	34.3

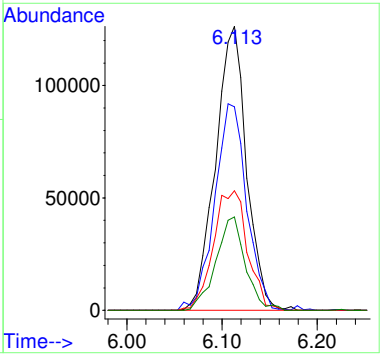


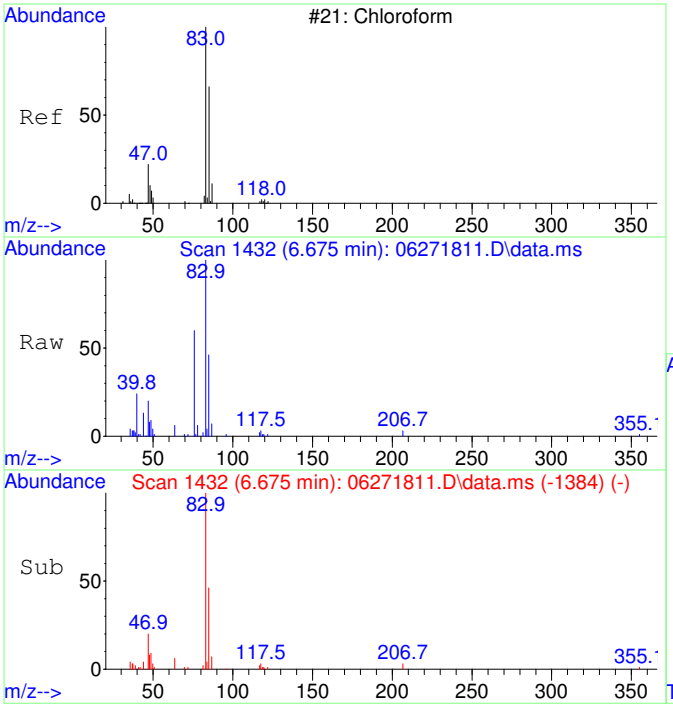


#29
cis-1,2-Dichloroethene SCAN
Concen: 40268.48 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 286956

Ion	Ratio	Lower	Upper
61	100		
96	74.7	28.2	88.2
98	46.5	14.1	74.1
63	31.3	1.5	61.5

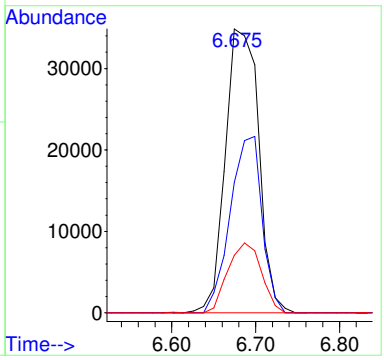


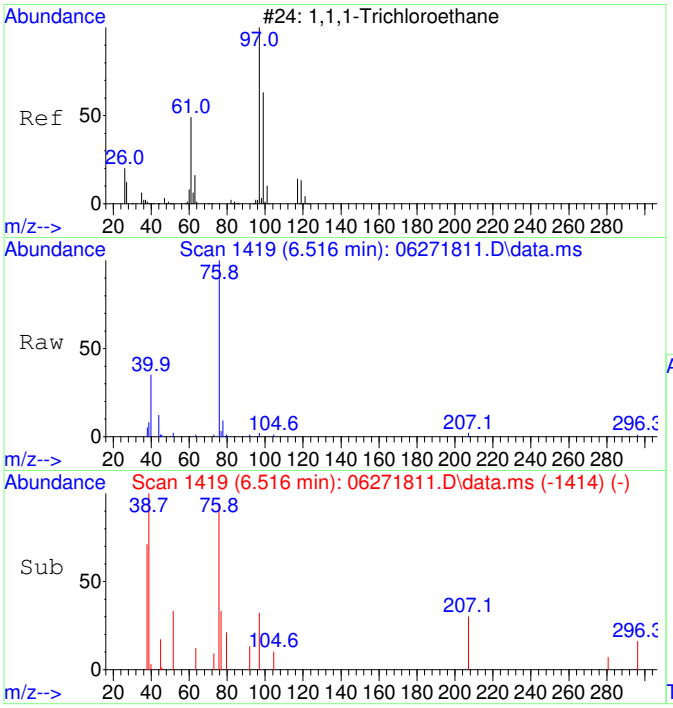


#30
Chloroform SCAN
Concen: 11001.72 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 83 Resp: 96230

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

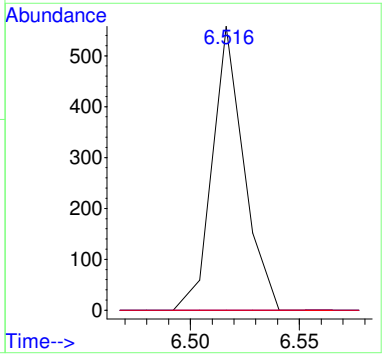


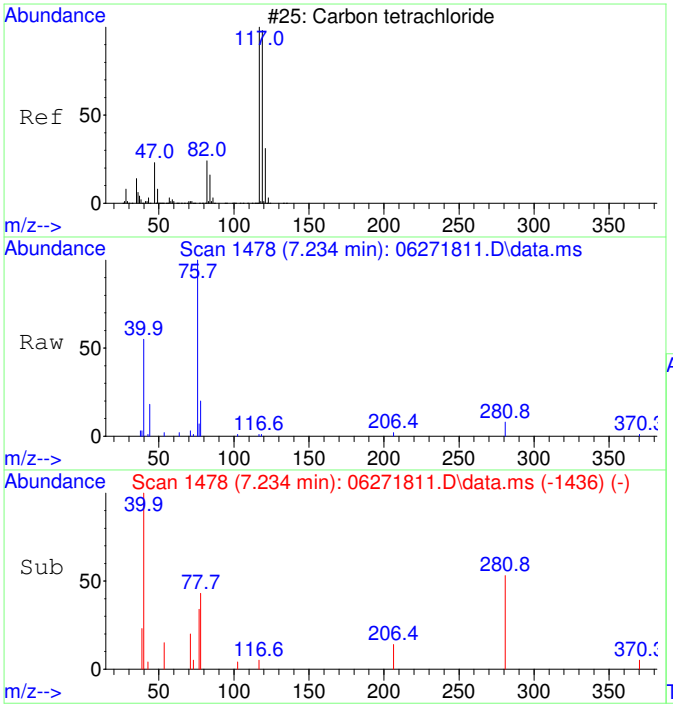


#31
1,1,1-Trichloroethane SCAN
Concen: 72.05 ug/L
RT: 6.516 min Scan# 1419
Delta R.T. -0.438 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 97 Resp: 561

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

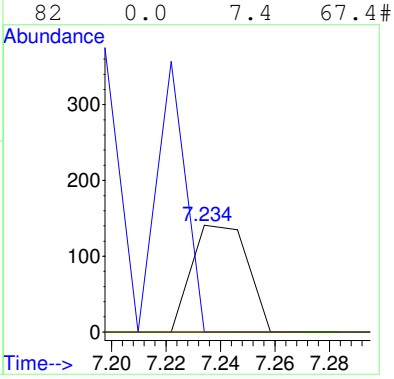


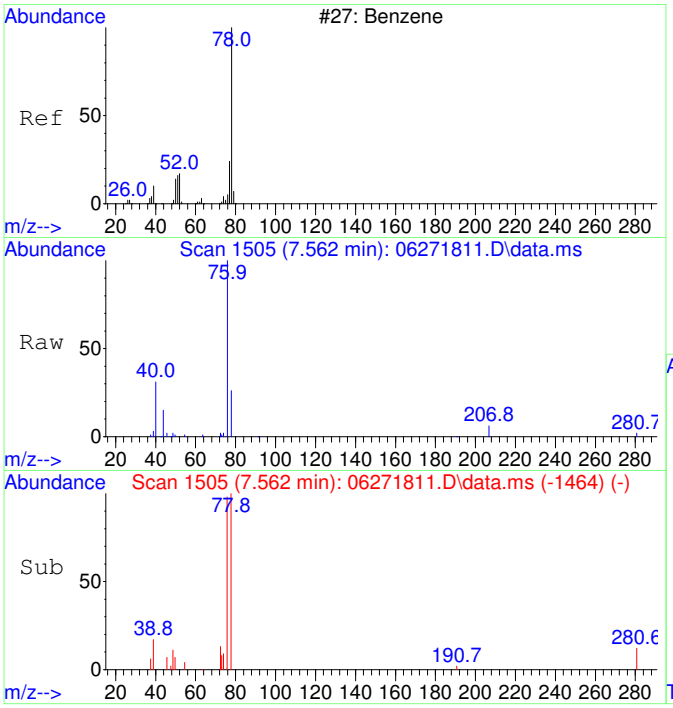


#32
Carbon tetrachloride SCAN
Concen: 26.20 ug/L
RT: 7.234 min Scan# 1478
Delta R.T. 0.012 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:117 Resp: 201

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#

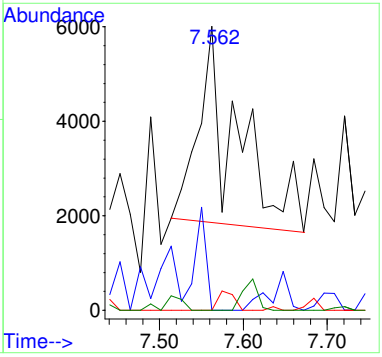


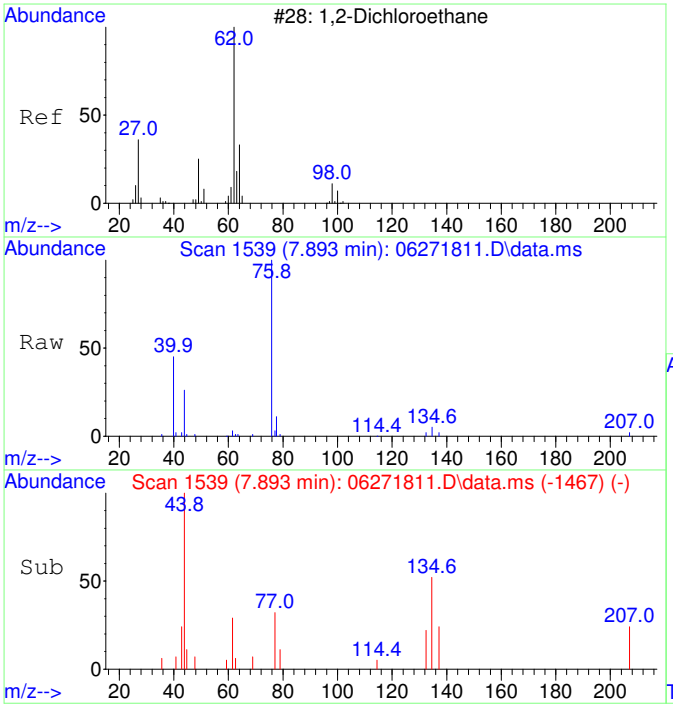


#33
Benzene SCAN
Concen: 561.82 ug/L
RT: 7.562 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 78 Resp: 13045

Ion	Ratio	Lower	Upper
78	100		
77	13.7	3.0	63.0
51	0.0	0.0	56.4
52	0.0	0.0	48.0

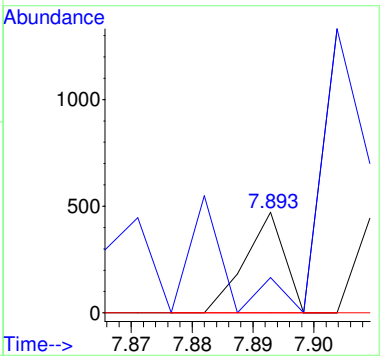


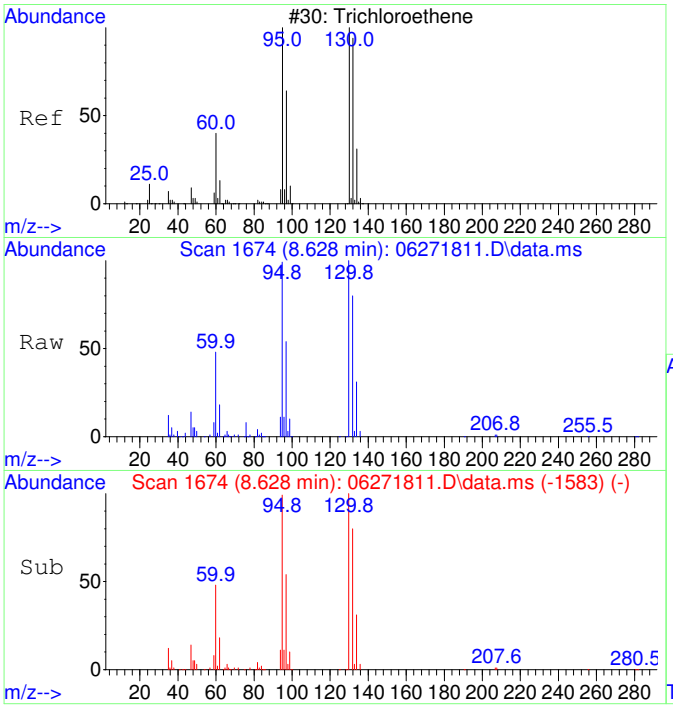


#34
1,2-Dichloroethane SCAN
Concen: 27.03 ug/L
RT: 7.893 min Scan# 1539
Delta R.T. 0.294 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 62 Resp: 214

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

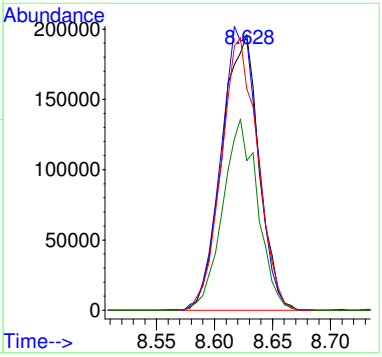


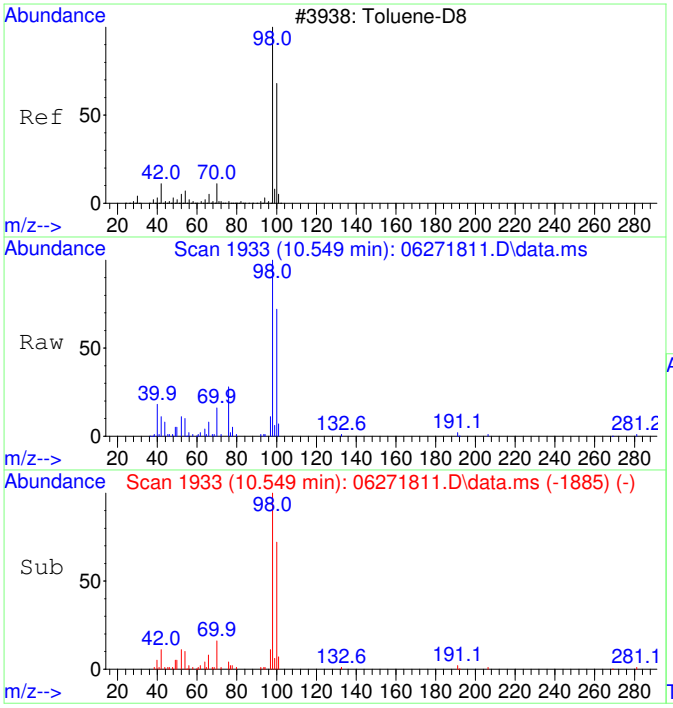


#35
Trichloroethene SCAN
Concen: 76861.95 ug/L
RT: 8.628 min Scan# 1674
Delta R.T. -0.006 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:130 Resp: 436723

Ion	Ratio	Lower	Upper
130	100		
95	102.8	70.5	130.5
132	96.9	63.8	123.8
97	65.6	34.8	94.8

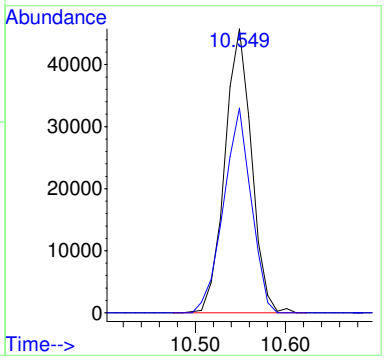


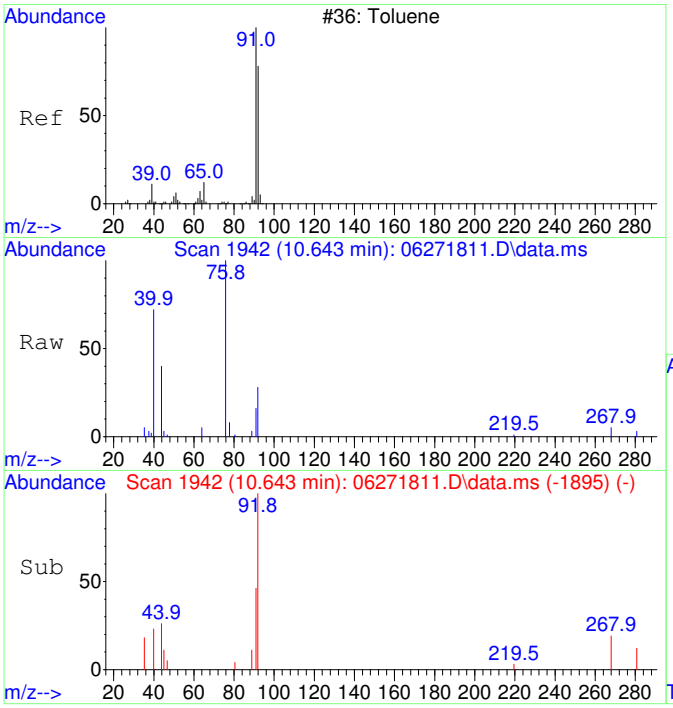


#36
Toluene-d8 SCAN
Concen: 4676.00 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 98 Resp: 94243

Ion	Ratio	Lower	Upper
98	100		
100	74.7	39.5	99.5

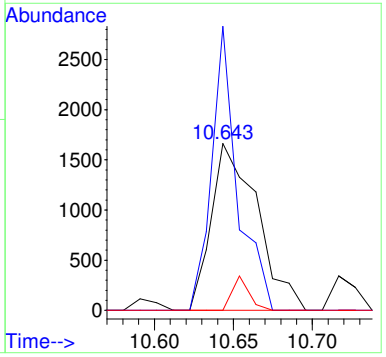


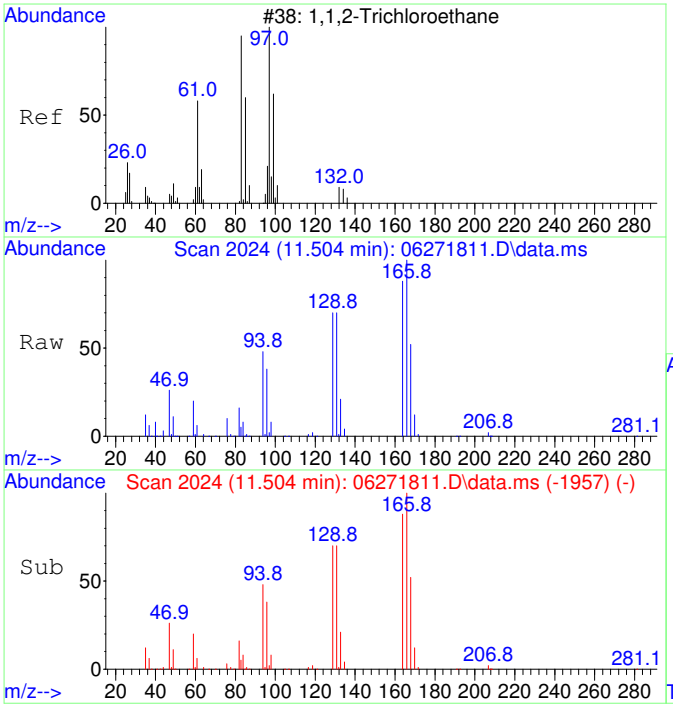


#37
Toluene SCAN
Concen: 131.21 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.011 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 3378

Ion	Ratio	Lower	Upper
91	100		
92	94.9	26.6	86.6#
65	7.5	0.0	42.3

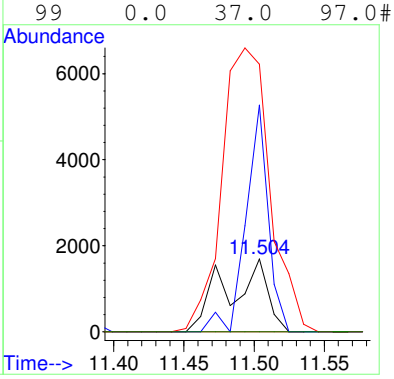


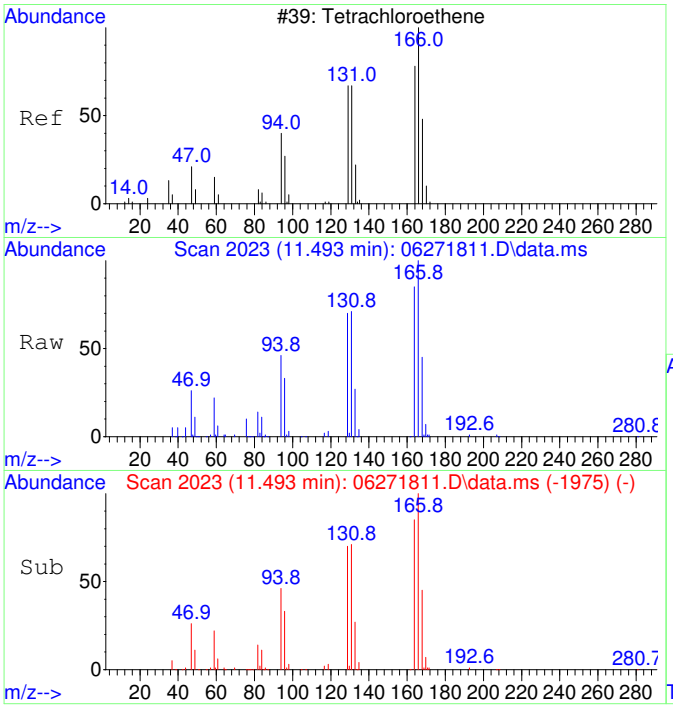


#38
1,1,2-Trichloroethane SCAN
Concen: 701.95 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.199 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 97 Resp: 3463

Ion	Ratio	Lower	Upper
97	100		
83	169.0	63.6	123.6#
61	455.3	44.9	104.9#
99	0.0	37.0	97.0#

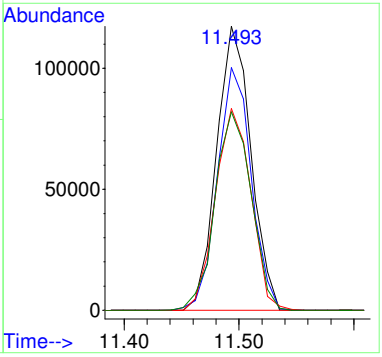


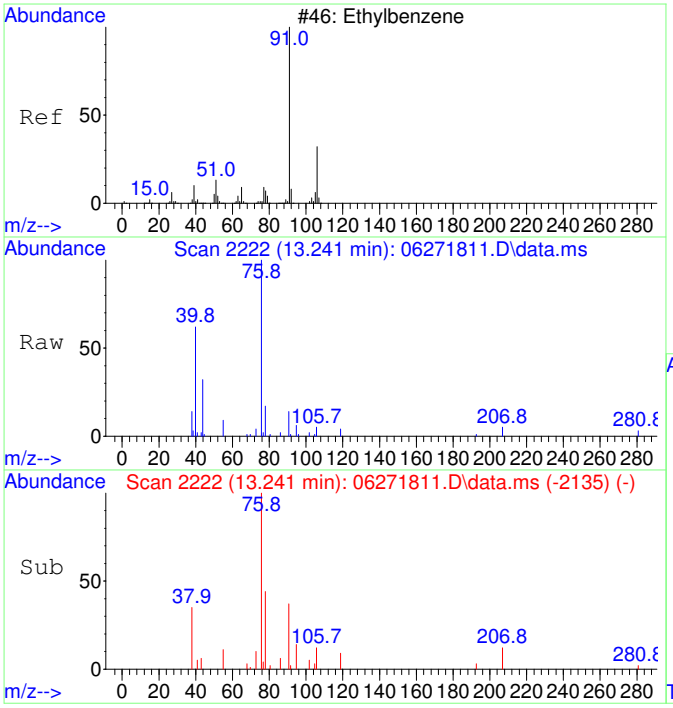


#39
Tetrachloroethene SCAN
Concen: 43227.85 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:166 Resp: 244217

Ion	Ratio	Lower	Upper
166	100		
164	84.3	43.3	103.3
131	73.4	35.6	95.6
129	73.8	36.6	96.6

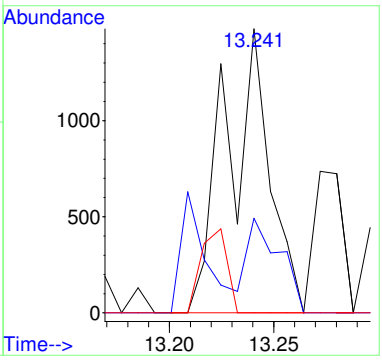


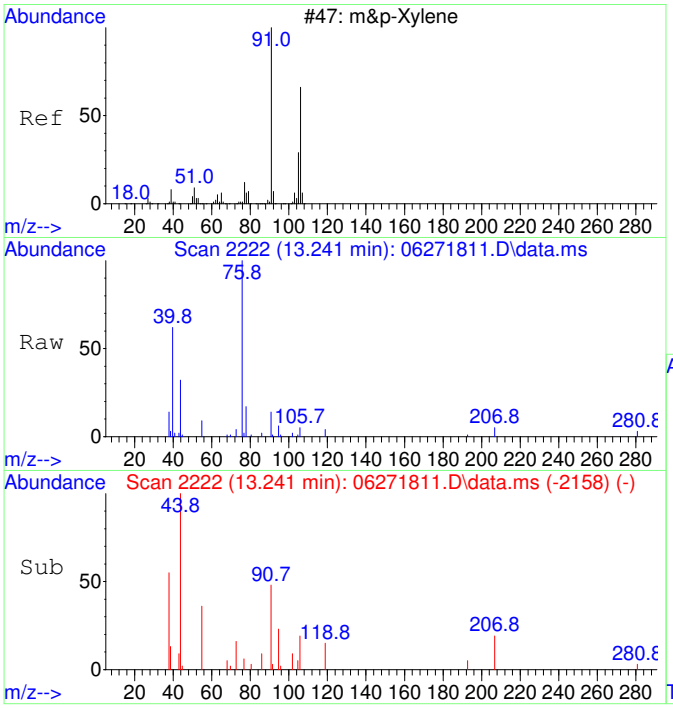


#42
Ethylbenzene SCAN
Concen: 71.78 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.191 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 2148

Ion	Ratio	Lower	Upper
91	100		
106	20.0	3.2	63.2
51	17.8	0.0	40.1

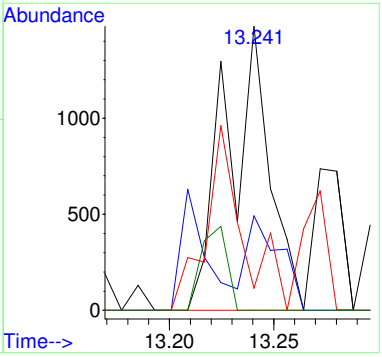


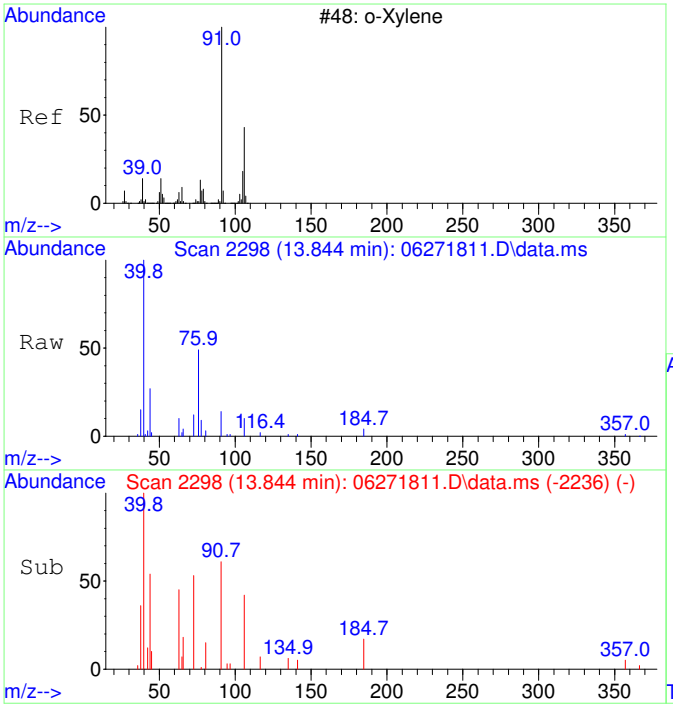


#43
m&p-Xylene SCAN
Concen: 51.71 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 2148

Ion	Ratio	Lower	Upper
91	100		
106	20.0	20.1	80.1#
105	54.7	0.0	51.1#
51	17.8	0.0	40.7

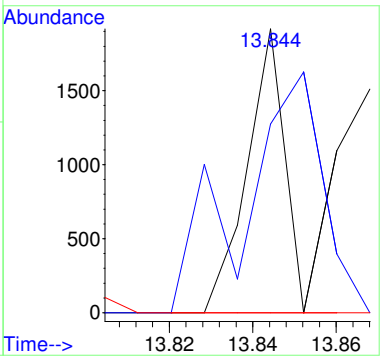


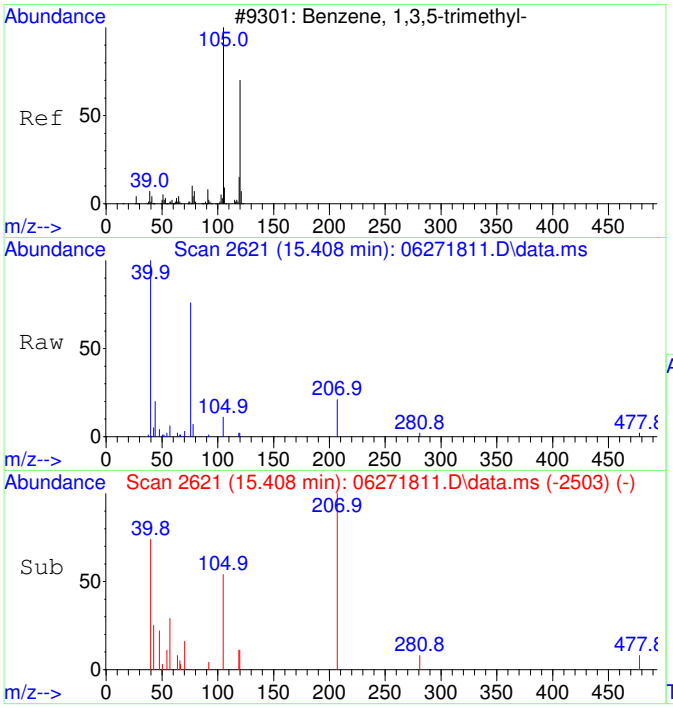


#44
o-Xylene SCAN
Concen: 50.59 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 1196

Ion	Ratio	Lower	Upper
91	100		
106	180.5	21.3	81.3#
105	0.0	0.0	55.2

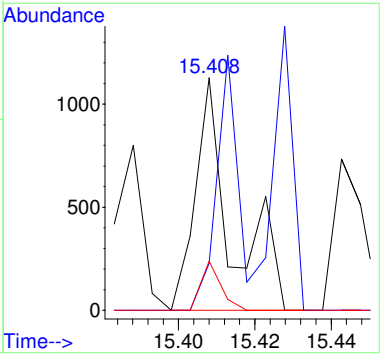


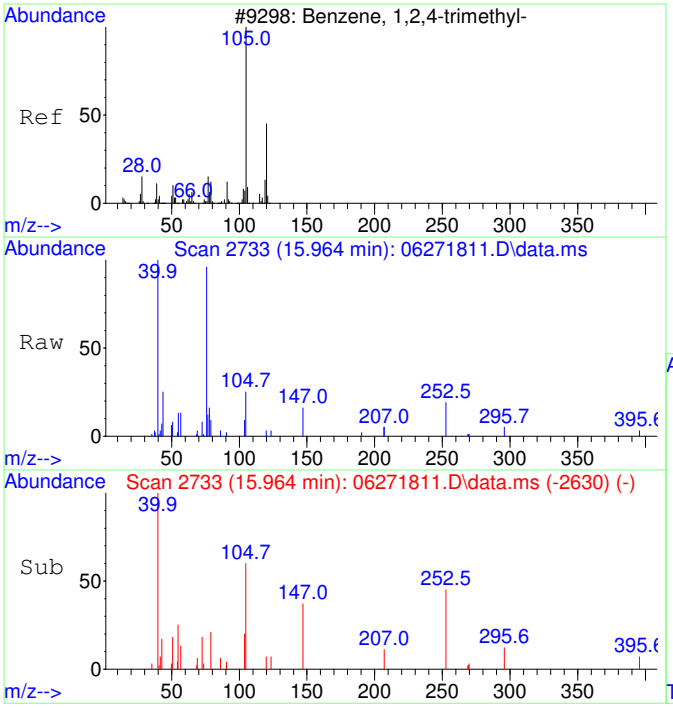


#46
1,3,5-Trimethylbenzene SCAN
Concen: 31.23 ug/L
RT: 15.408 min Scan# 2621
Delta R.T. -0.005 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:105 Resp: 732

Ion	Ratio	Lower	Upper
105	100		
120	54.8	16.8	76.8
119	11.9	0.0	41.5

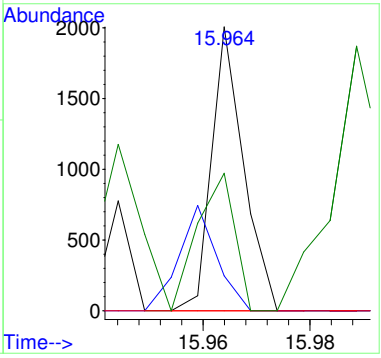




#47
1,2,4-Trimethylbenzene SCAN
Concen: 34.71 ug/L
RT: 15.964 min Scan# 2733
Delta R.T. 0.010 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:105 Resp: 834

Ion	Ratio	Lower	Upper
105	100		
120	43.8	15.4	75.4
119	0.0	0.0	41.7
77	56.8	0.0	42.0#



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271811.D
Acq On : 27 Jun 2018 13:28
InstName : AG5975C
Operator : TD
Sample : 1806075-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

M.I. Performed By:
TD at 11:03 am, Jun 28, 2018

M.I. Approved By:
ZR at 11:19 am, Jul 02, 2018

Quant Time: Jun 27 13:47:14 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

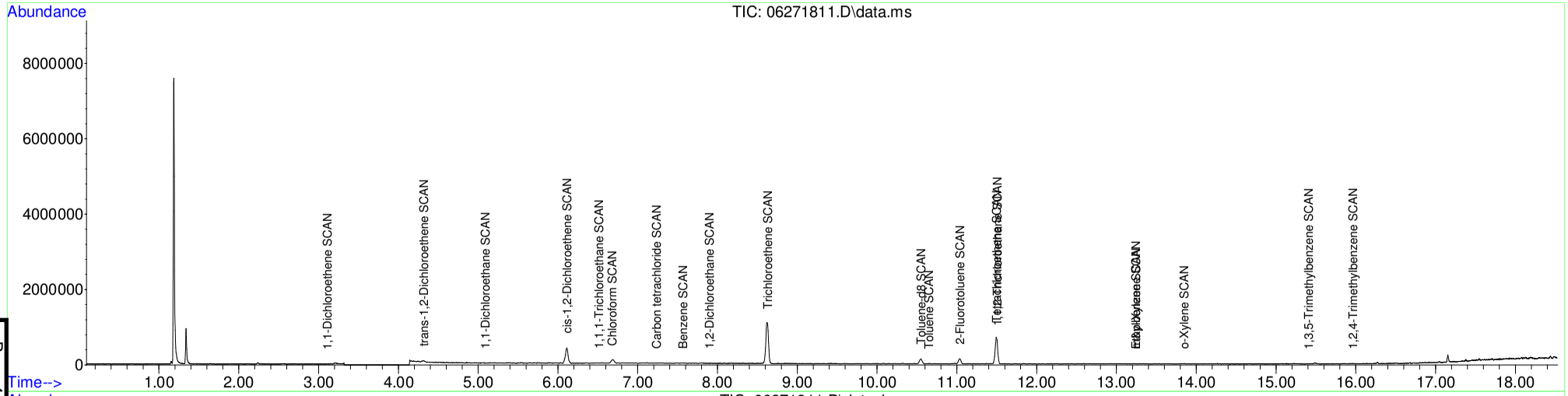
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	191330	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	159091	5119.12 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.38%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	1259m	157.02 ug/L	
3] trans-1,2-Dichloroethene	4.316	61	28386	3317.89 ug/L	100
4] 1,1-Dichloroethane	5.072	63	261	24.51 ug/L	73
5] cis-1,2-Dichloroethene	6.107	61	409867	39016.83 ug/L	100
6] Chloroform	6.688	83	134365	11878.91 ug/L	100
7] 1,1,1-Trichloroethane	6.943	97	277	24.88 ug/L	74
8] Carbon tetrachloride	7.211	117	1312	124.41 ug/L	96
9] Benzene	7.552	78	2692	87.63 ug/L	68
10] 1,2-Dichloroethane	7.588	62	288	29.09 ug/L #	1
11] Trichloroethene	8.624	130	710349	84133.67 ug/L	99
13] Toluene	10.645	91	5602	134.44 ug/L	99
15] Tetrachloroethene	11.495	166	454373	38703.24 ug/L	100
18] Ethylbenzene	13.035	91	1348	26.96 ug/L	86
19] m&p-Xylene	13.226	91	3992	103.44 ug/L	98
20] o-Xylene	13.846	91	3794	92.82 ug/L	97
22] 1,3,5-Trimethylbenzene	15.414	105	1102	23.83 ug/L	96
23] 1,2,4-Trimethylbenzene	15.955	105	1868	40.38 ug/L	98
25) 2-Fluorotoluene SCAN	11.042	109	118574	5318.40 ug/L #	63
26) 1,1-Dichloroethene SCAN	3.111	61	608	109.29 ug/L #	75
27) trans-1,2-Dichloroethe...	4.315	61	20031	3092.70 ug/L	95
28) 1,1-Dichloroethane SCAN	5.091	63	433	52.55 ug/L #	81
29) cis-1,2-Dichloroethene...	6.113	61	286956	40268.48 ug/L	89
30) Chloroform SCAN	6.675	83	96230	11001.72 ug/L #	28
31) 1,1,1-Trichloroethane ...	6.516	97	561	72.05 ug/L #	26
32) Carbon tetrachloride SCAN	7.234	117	201	26.20 ug/L #	13
33) Benzene SCAN	7.562	78	13045	561.82 ug/L #	58
34) 1,2-Dichloroethane SCAN	7.893	62	214	27.03 ug/L #	39
35) Trichloroethene SCAN	8.628	130	436723	76861.95 ug/L	98
36) Toluene-d8 SCAN	10.549	98	94243	4676.00 ug/L	94
37) Toluene SCAN	10.643	91	3378	131.21 ug/L #	55
38) 1,1,2-Trichloroethane ...	11.504	97	3463	701.95 ug/L #	1
39) Tetrachloroethene SCAN	11.493	166	244217	43227.85 ug/L	89
42) Ethylbenzene SCAN	13.241	91	2148	71.78 ug/L	77
43) m&p-Xylene SCAN	13.241	91	2148	51.71 ug/L #	52
44) o-Xylene SCAN	13.844	91	1196	50.59 ug/L #	1
46) 1,3,5-Trimethylbenzene...	15.408	105	732	31.23 ug/L	90
47) 1,2,4-Trimethylbenzene...	15.964	105	834	34.71 ug/L #	73

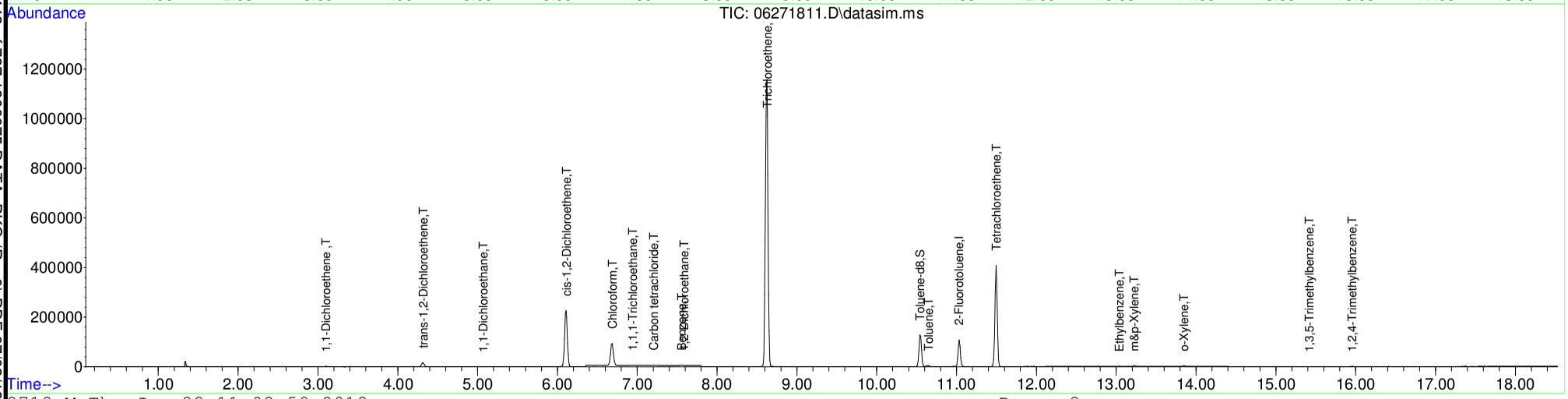
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271811.D
Acq On : 27 Jun 2018 13:28
InstName : AG5975C
Operator : TD
Sample : 1806075-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 13:47:14 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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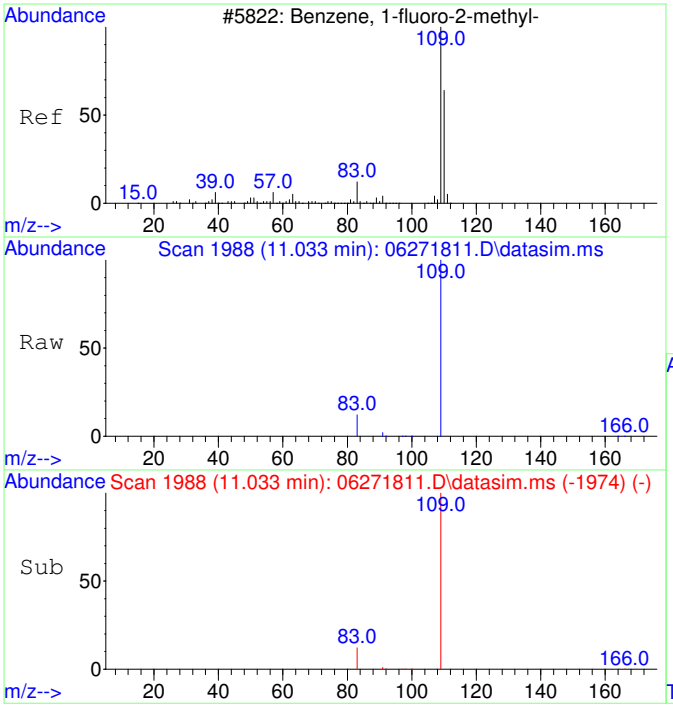
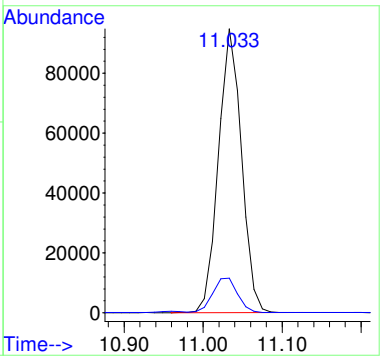
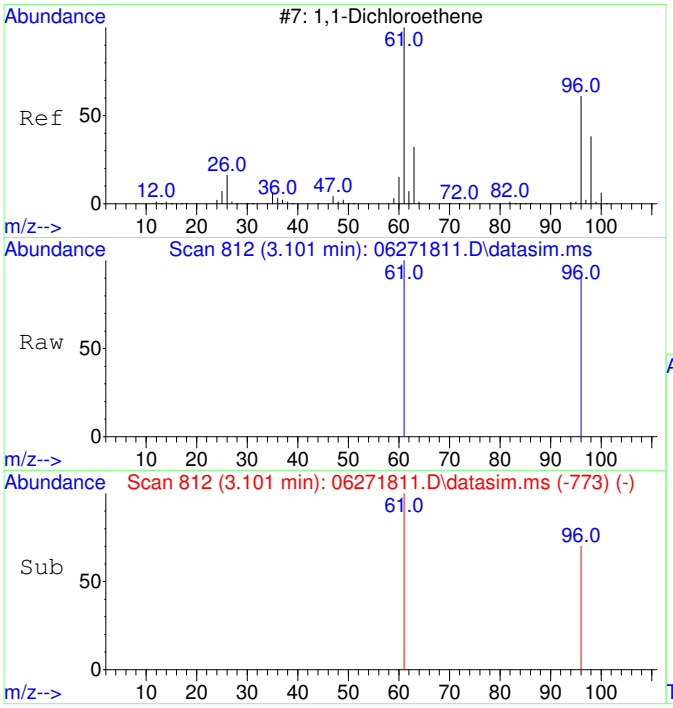


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:109 Resp: 191330

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

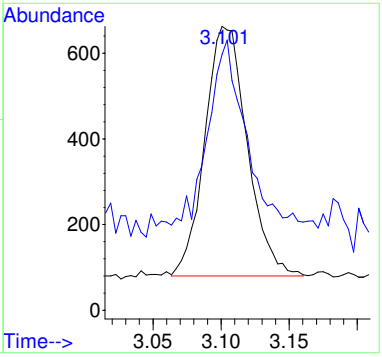


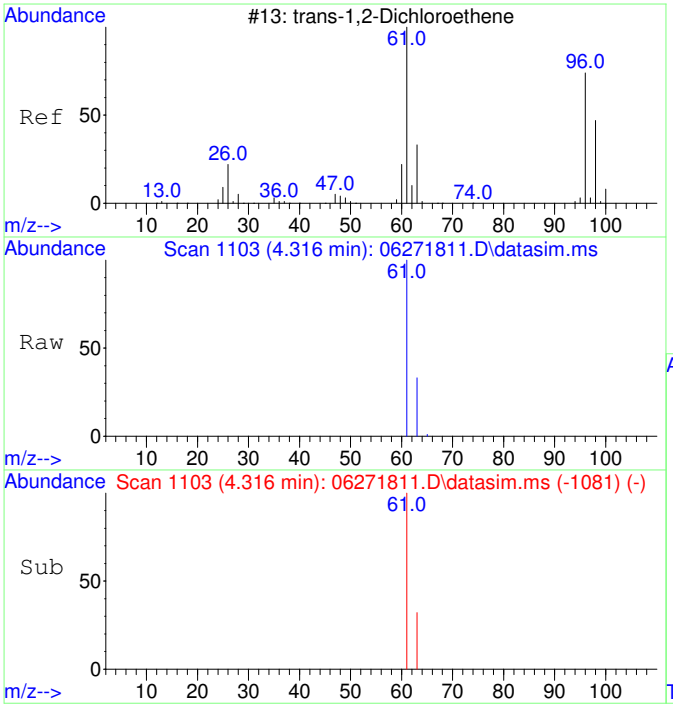


#2
1,1-Dichloroethene
Concen: 157.02 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. -0.004 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 1259

Ion	Ratio	Lower	Upper
61	100		
96	116.0	28.7	88.7#

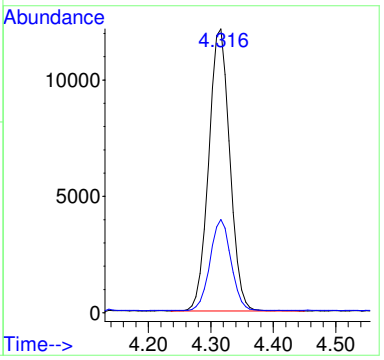


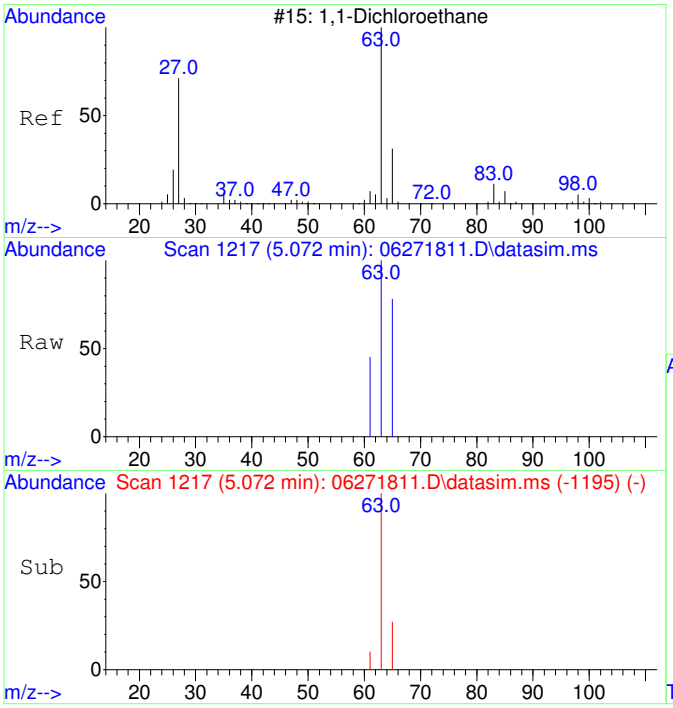


#3
trans-1,2-Dichloroethene
Concen: 3317.89 ug/L
RT: 4.316 min Scan# 1103
Delta R.T. -0.007 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 28386

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.0	62.0

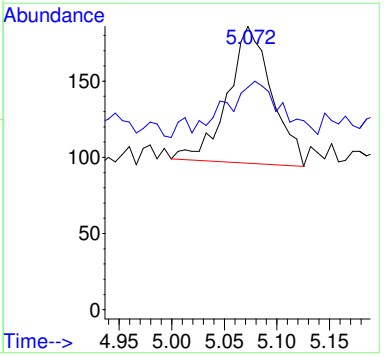


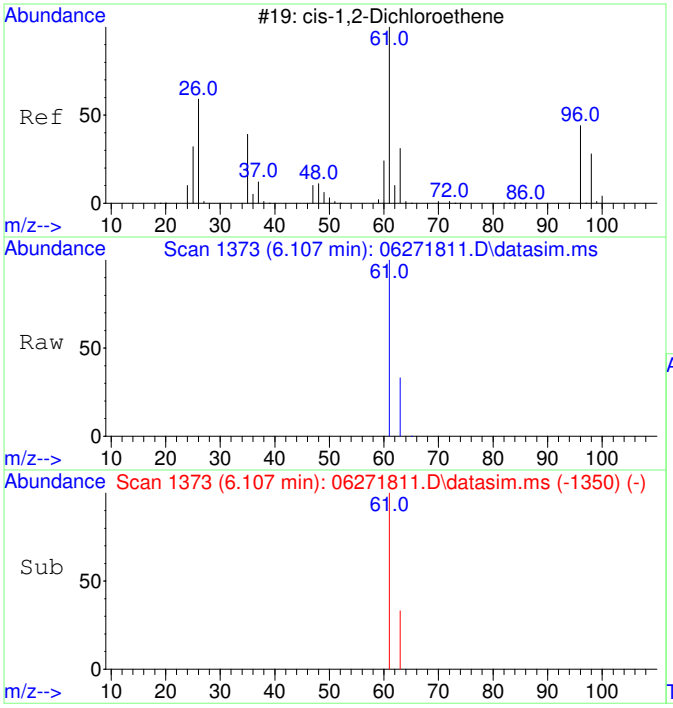


#4
1,1-Dichloroethane
Concen: 24.51 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.007 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 63 Resp: 261

Ion	Ratio	Lower	Upper
63	100		
65	46.4	1.5	61.5

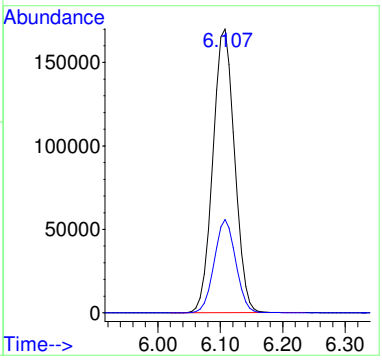


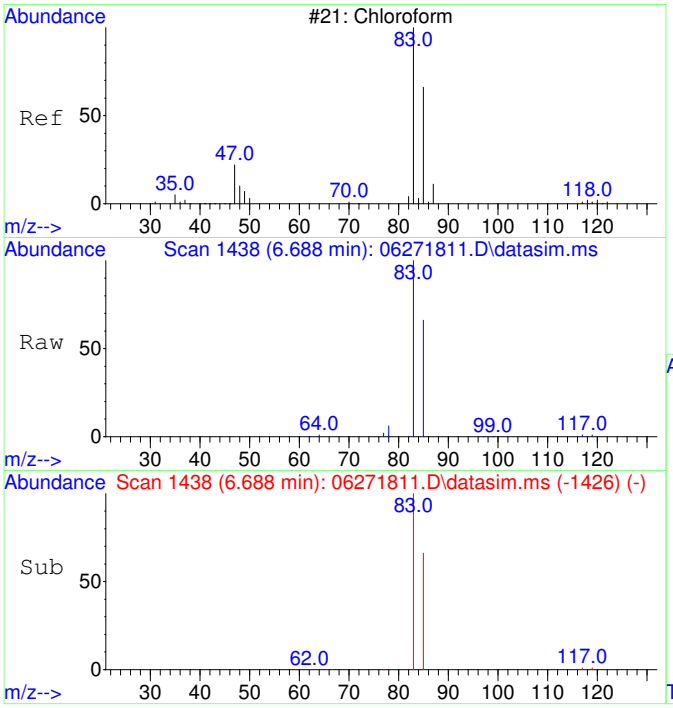


#5
cis-1,2-Dichloroethene
Concen: 39016.83 ug/L
RT: 6.107 min Scan# 1373
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 409867

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.2	62.2

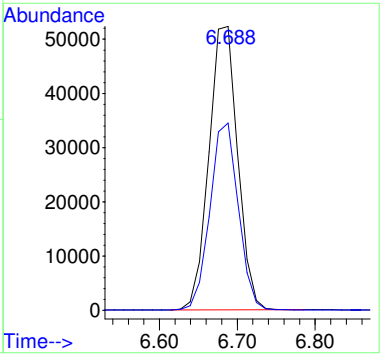


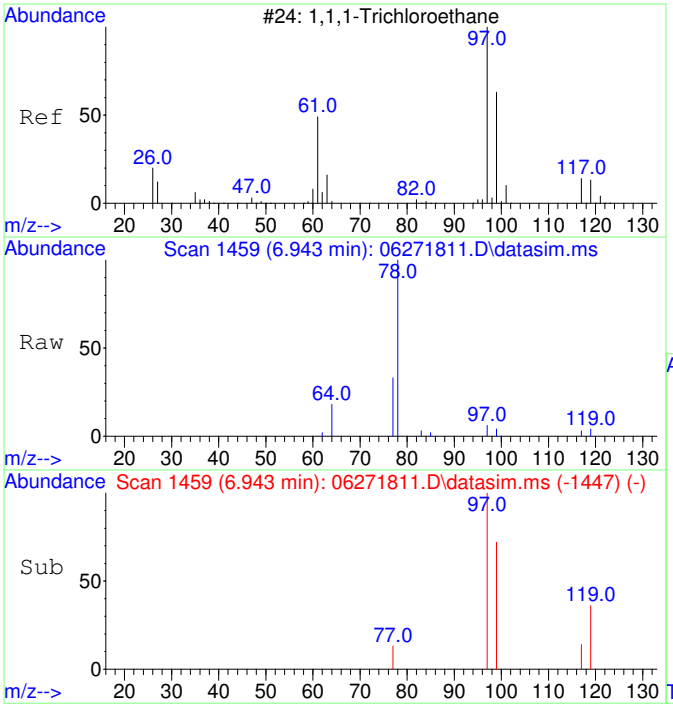


#6
Chloroform
Concen: 11878.91 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 83 Resp: 134365

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.8	94.8

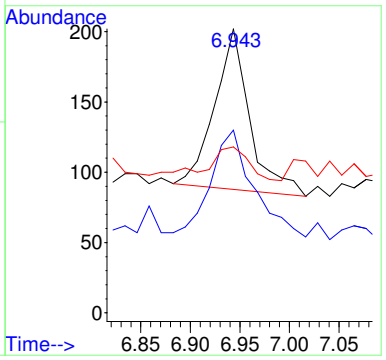


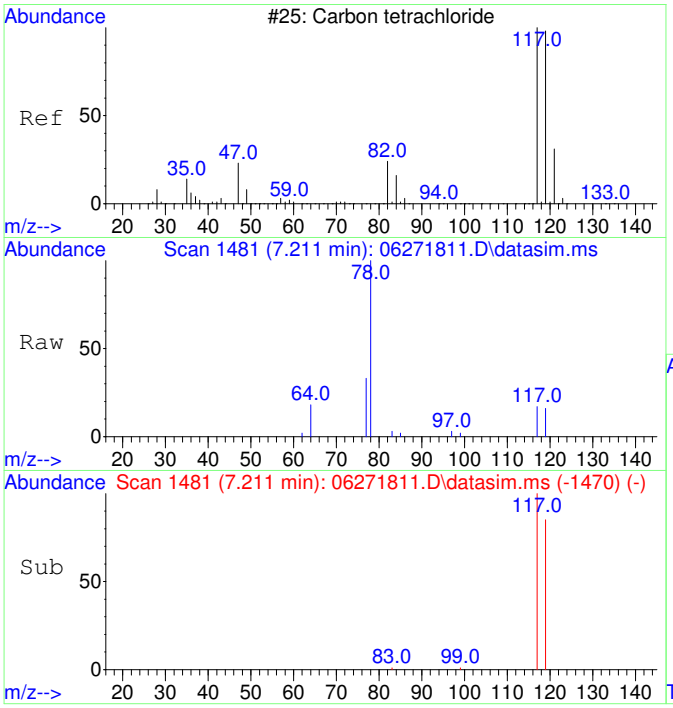


#7
1,1,1-Trichloroethane
Concen: 24.88 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 97 Resp: 277

Ion	Ratio	Lower	Upper
97	100		
99	83.8	34.6	94.6
117	27.4	0.0	42.9

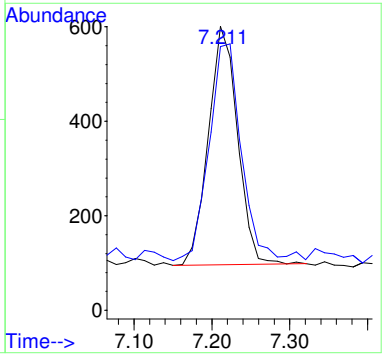


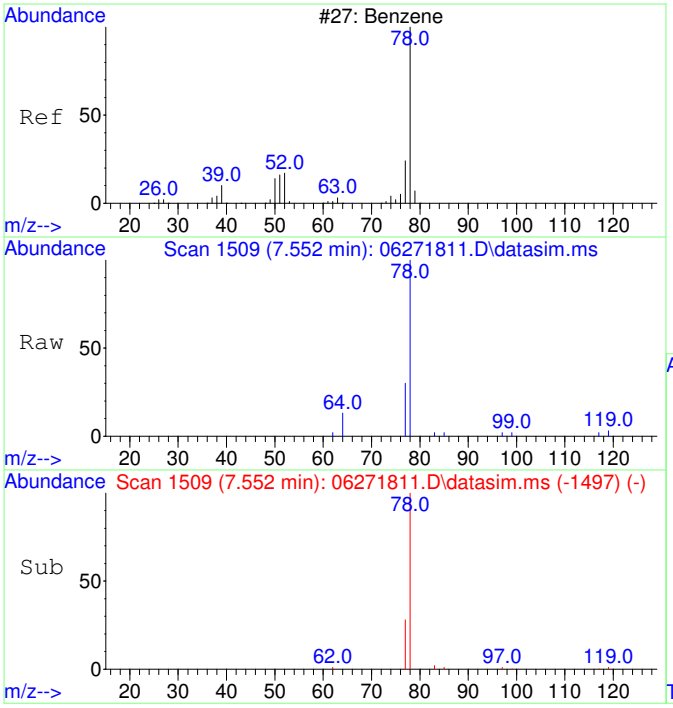


#8
Carbon tetrachloride
Concen: 124.41 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:117 Resp: 1312

Ion	Ratio	Lower	Upper
117	100		
119	100.0	65.9	125.9

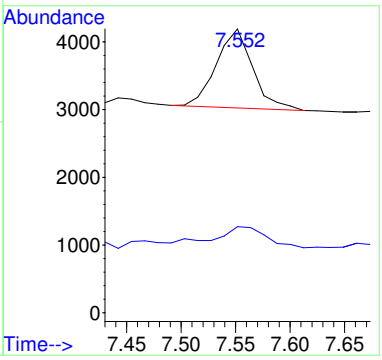


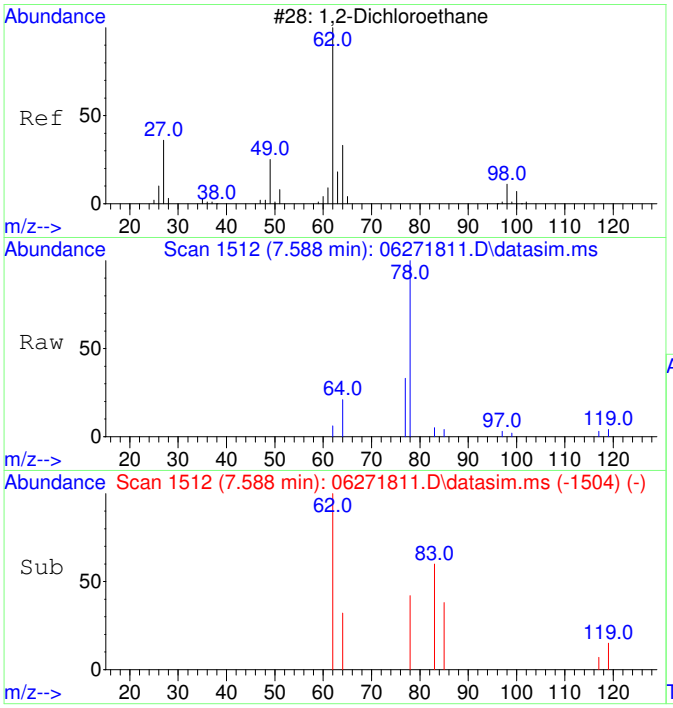


#9
Benzene
Concen: 87.63 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 78 Resp: 2692

Ion	Ratio	Lower	Upper
78	100		
77	38.7	0.0	53.0

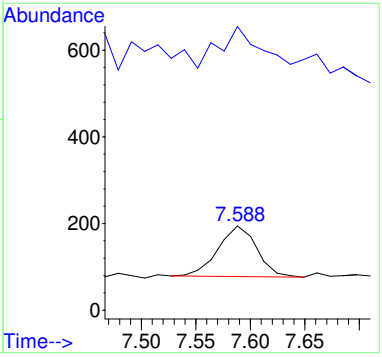


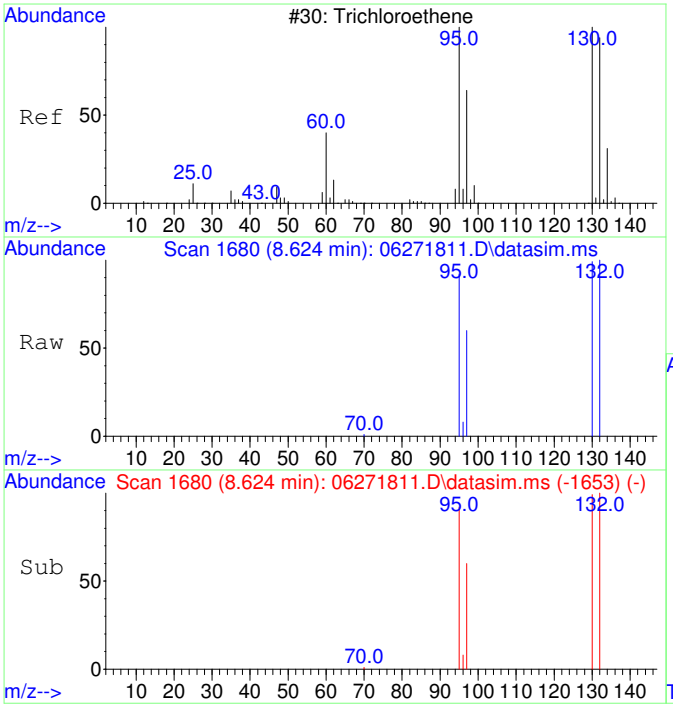


#10
1,2-Dichloroethane
Concen: 29.09 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 62 Resp: 288

Ion	Ratio	Lower	Upper
62	100		
64	122.6	2.3	62.3#

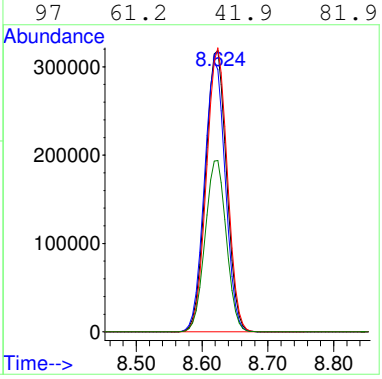


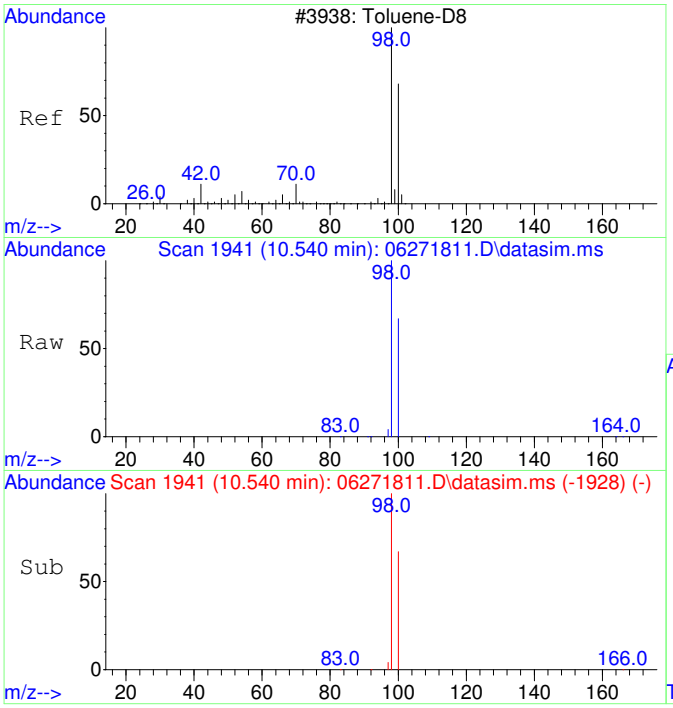


#11
Trichloroethene
Concen: 84133.67 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.006 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:130 Resp: 710349

Ion	Ratio	Lower	Upper
130	100		
95	95.5	66.0	126.0
132	99.6	78.8	118.8
97	61.2	41.9	81.9

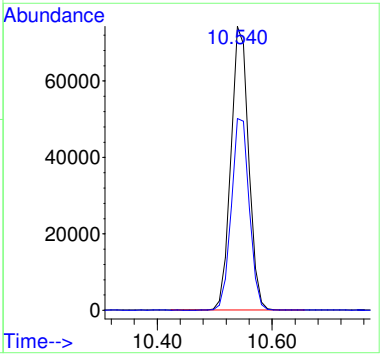


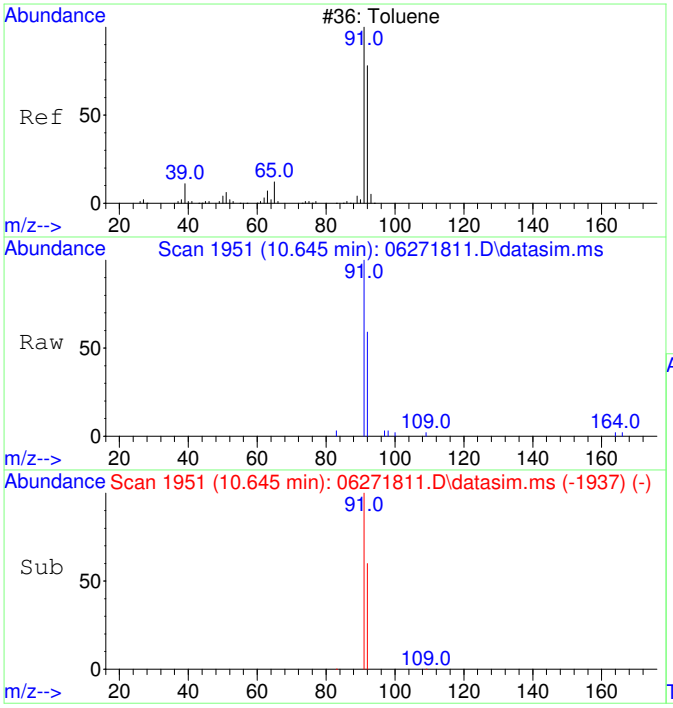


#12
Toluene-d8
Concen: 5119.12 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 98 Resp: 159091

Ion	Ratio	Lower	Upper
98	100		
100	68.3	38.7	98.7

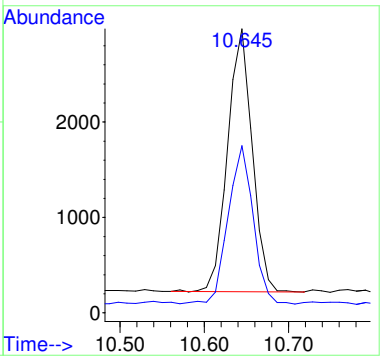


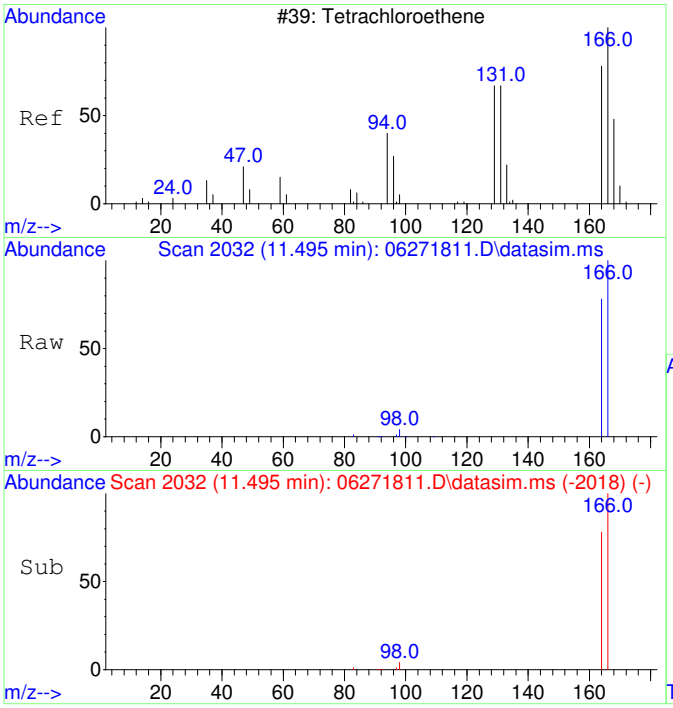


#13
Toluene
Concen: 134.44 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 5602

Ion	Ratio	Lower	Upper
91	100		
92	60.8	30.0	90.0

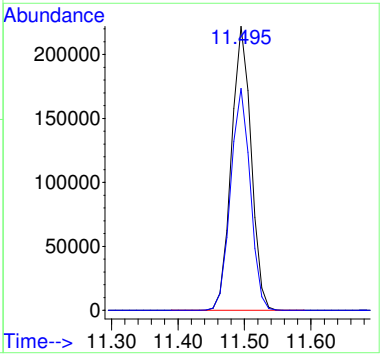


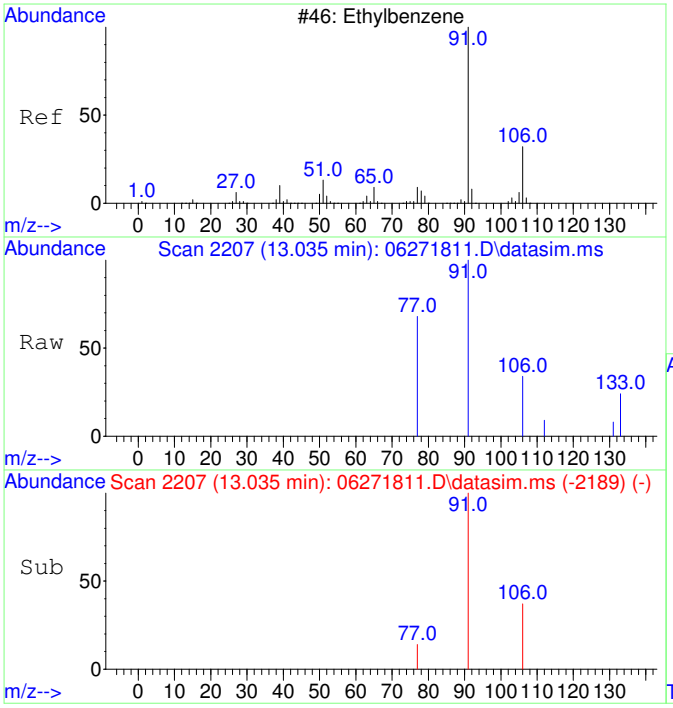


#15
Tetrachloroethene
Concen: 38703.24 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:166 Resp: 454373

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

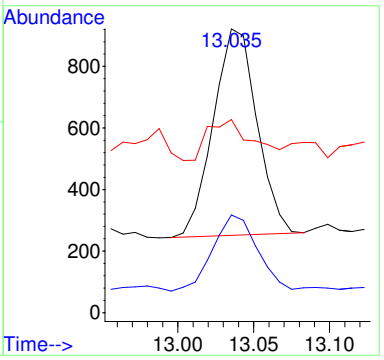


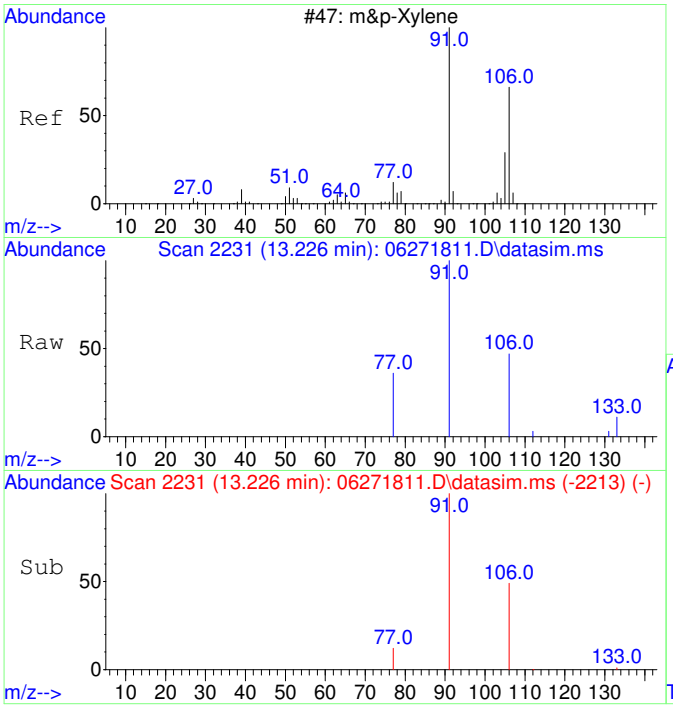


#18
Ethylbenzene
Concen: 26.96 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 1348

Ion	Ratio	Lower	Upper
91	100		
106	38.0	2.8	62.8
77	20.3	0.0	38.6

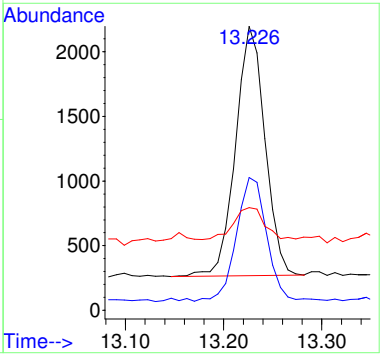


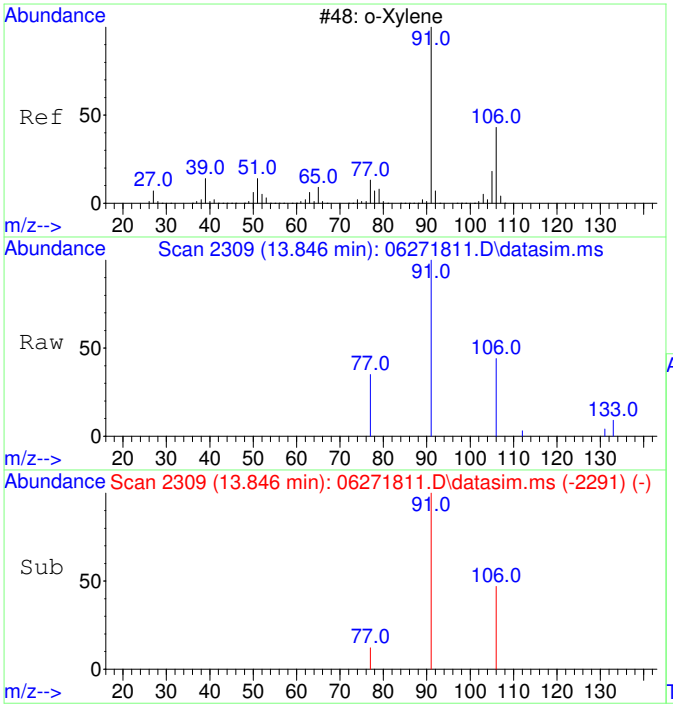


#19
m&p-Xylene
Concen: 103.44 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 3992

Ion	Ratio	Lower	Upper
91	100		
106	50.7	21.2	81.2
77	14.9	0.0	42.9

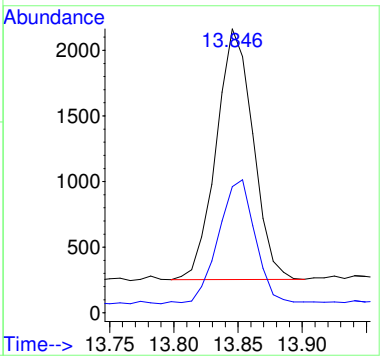


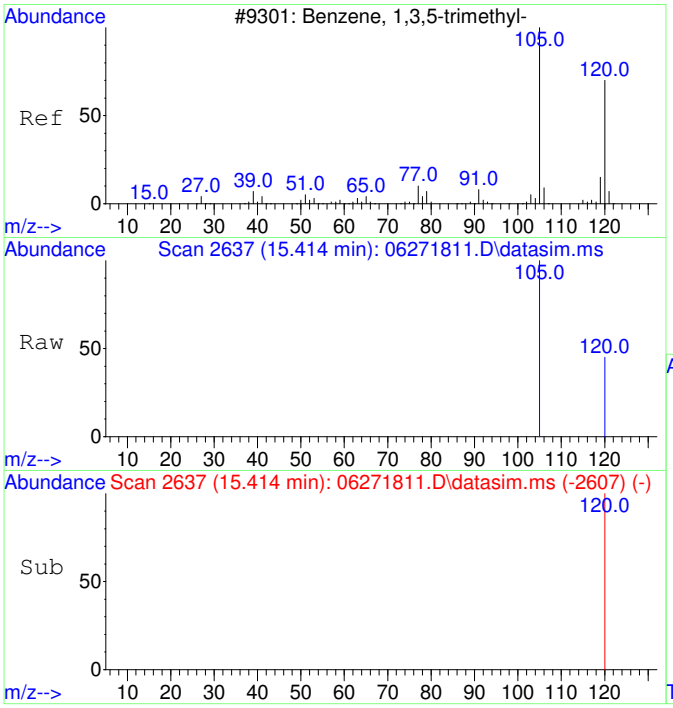


#20
o-Xylene
Concen: 92.82 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 3794

Ion	Ratio	Lower	Upper
91	100		
106	50.2	18.3	78.3

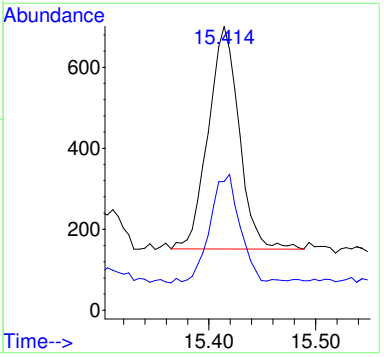


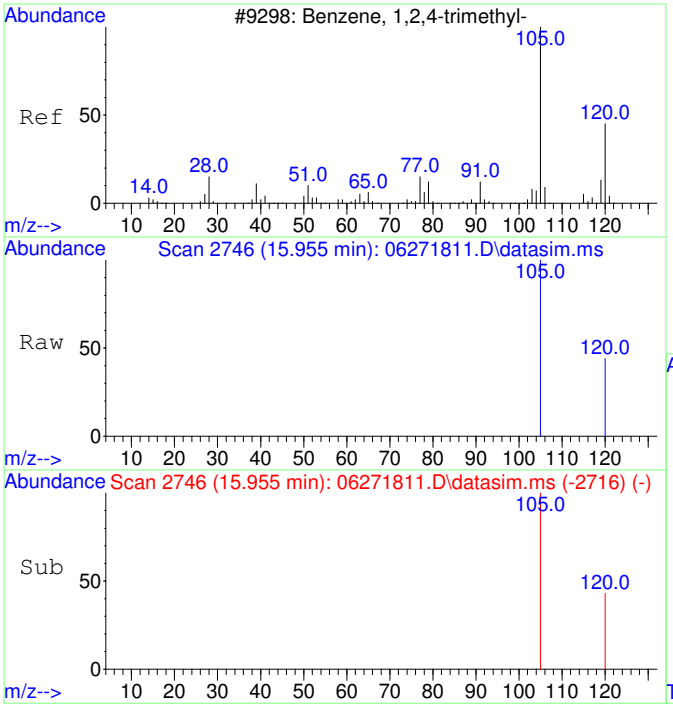


#22
1,3,5-Trimethylbenzene
Concen: 23.83 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:105 Resp: 1102

Ion	Ratio	Lower	Upper
105	100		
120	46.4	19.1	79.1

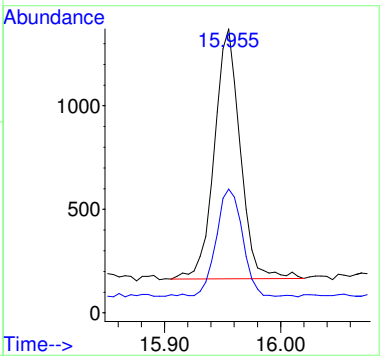


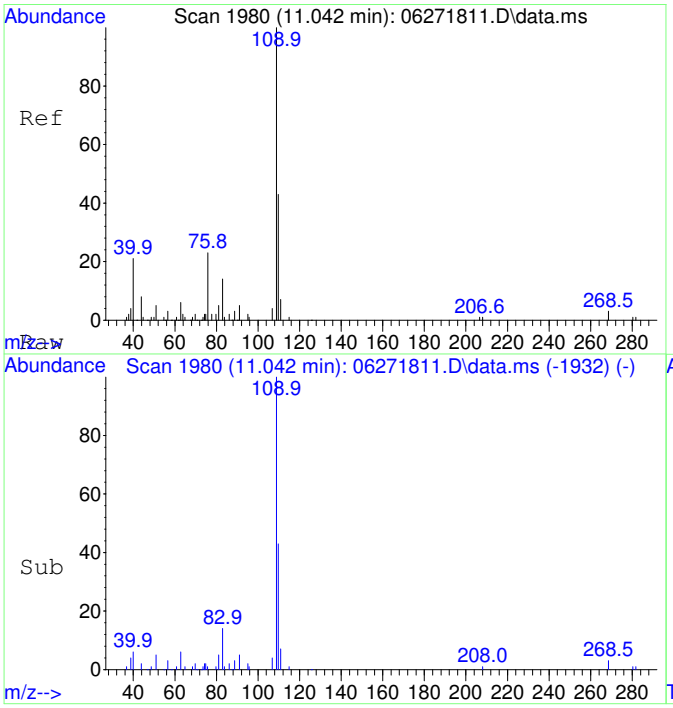


#23
1,2,4-Trimethylbenzene
Concen: 40.38 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:105 Resp: 1868

Ion	Ratio	Lower	Upper
105	100		
120	44.2	15.5	75.5

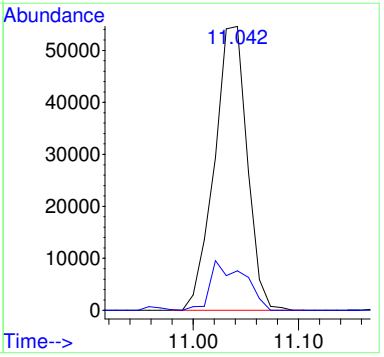


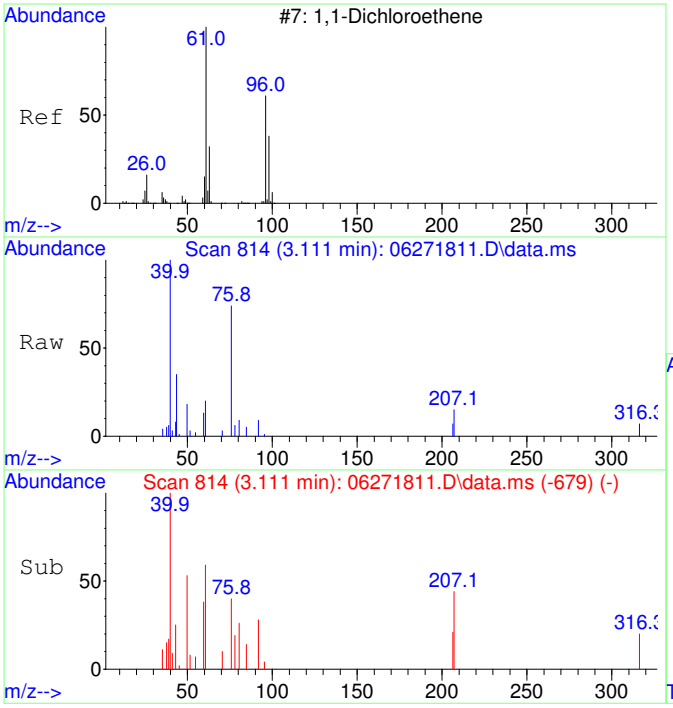


#25
2-Fluorotoluene SCAN
Concen: 5318.40 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:109 Resp: 118574

Ion	Ratio	Lower	Upper
109	100		
83	0.0	0.0	45.7

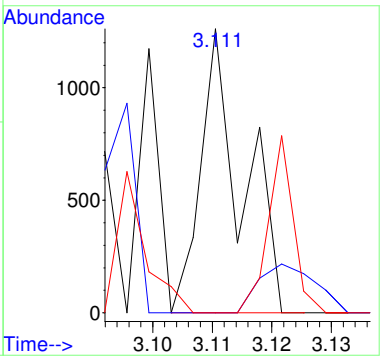


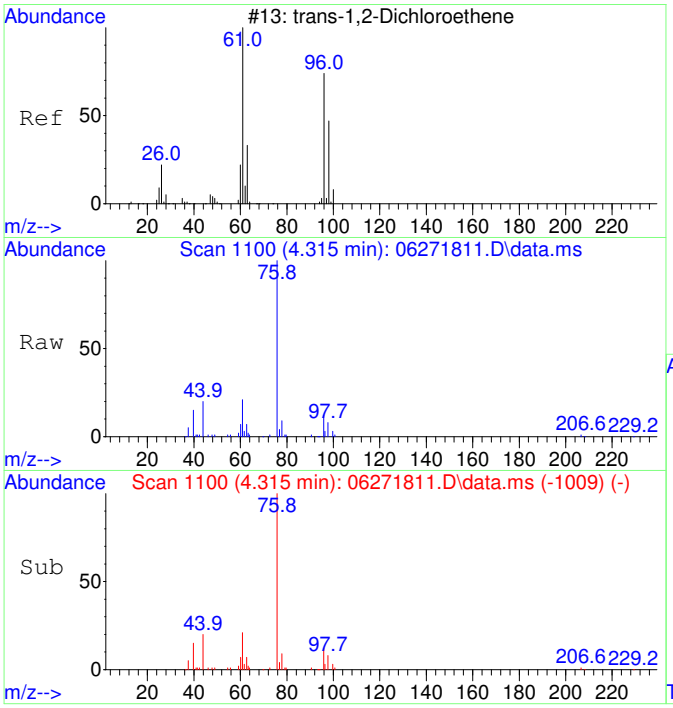


#26
1,1-Dichloroethene SCAN
Concen: 109.29 ug/L
RT: 3.111 min Scan# 814
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 608

Ion	Ratio	Lower	Upper
61	100		
96	23.7	23.8	83.8#
98	38.0	8.8	68.8

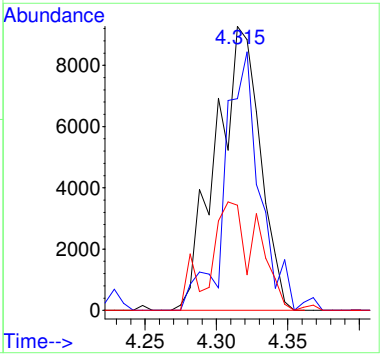


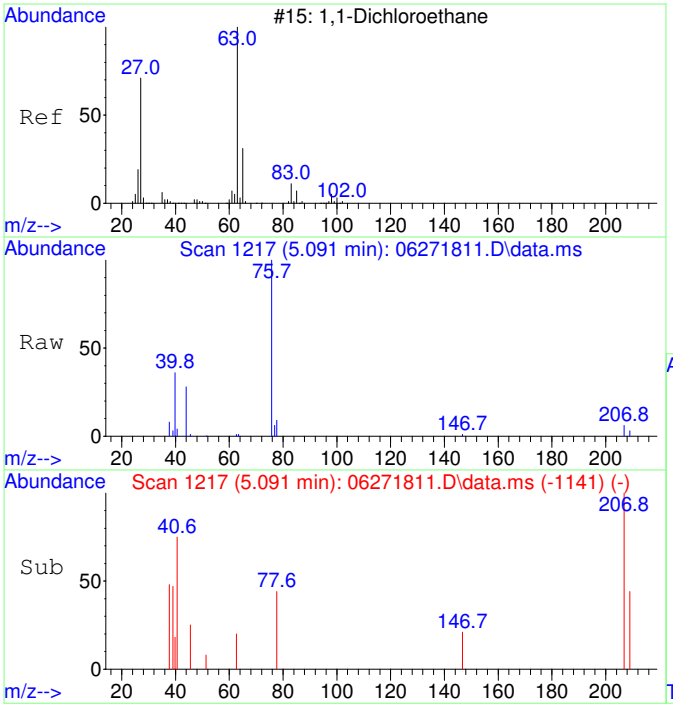


#27
trans-1,2-Dichloroethene SCAN
Concen: 3092.70 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. -0.020 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 20031

Ion	Ratio	Lower	Upper
61	100		
96	72.7	37.9	97.9
98	40.4	12.7	72.7

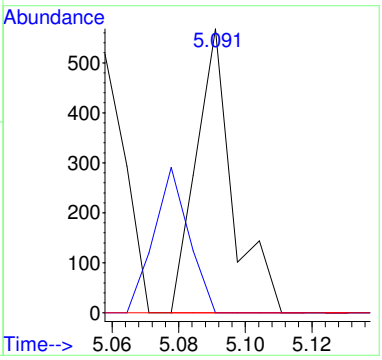


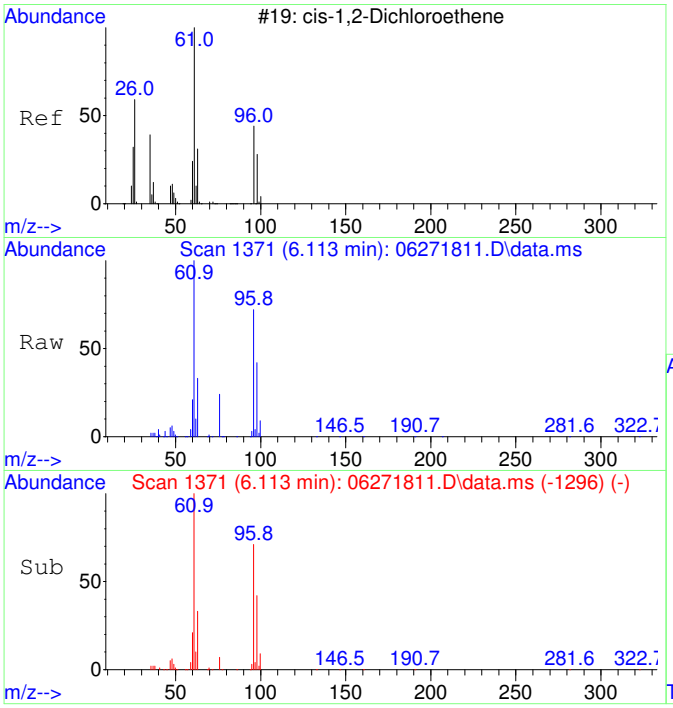


#28
1,1-Dichloroethane SCAN
Concen: 52.55 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 63 Resp: 433

Ion	Ratio	Lower	Upper
63	100		
65	49.2	7.5	67.5
83	0.0	0.0	34.3

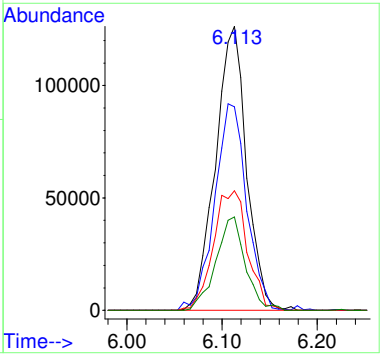


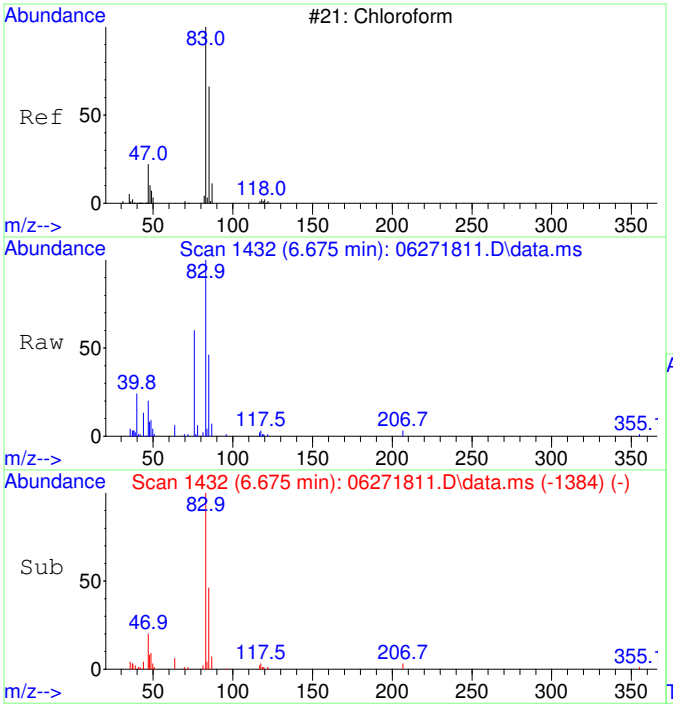


#29
cis-1,2-Dichloroethene SCAN
Concen: 40268.48 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 61 Resp: 286956

Ion	Ratio	Lower	Upper
61	100		
96	74.7	28.2	88.2
98	46.5	14.1	74.1
63	31.3	1.5	61.5

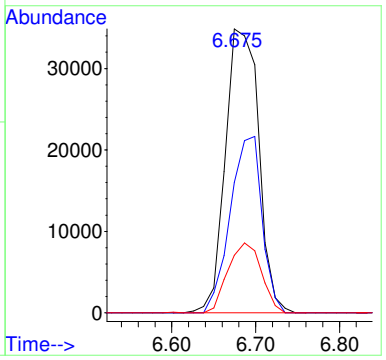


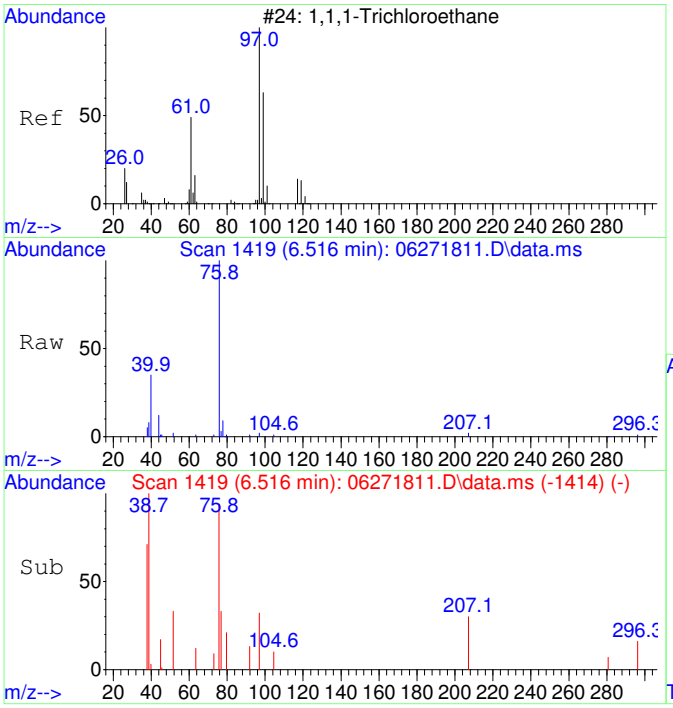


#30
Chloroform SCAN
Concen: 11001.72 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 83 Resp: 96230

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

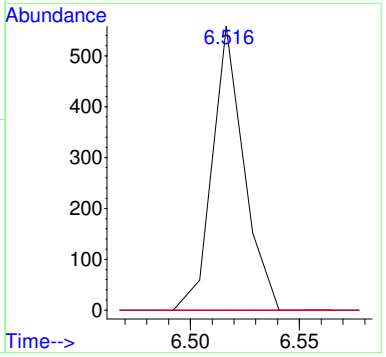


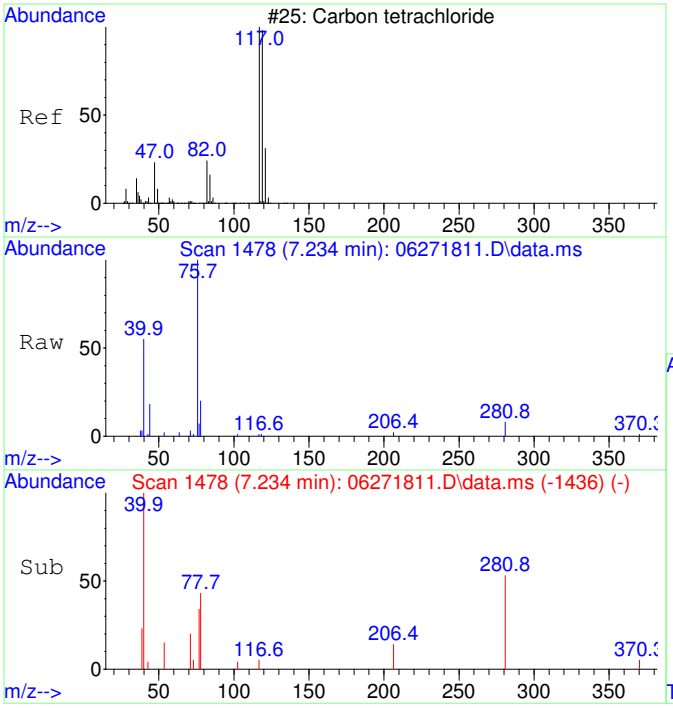


#31
1,1,1-Trichloroethane SCAN
Concen: 72.05 ug/L
RT: 6.516 min Scan# 1419
Delta R.T. -0.438 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 97 Resp: 561

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

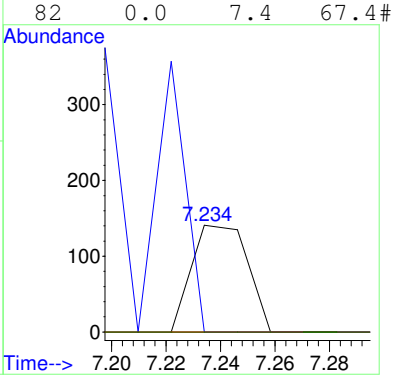


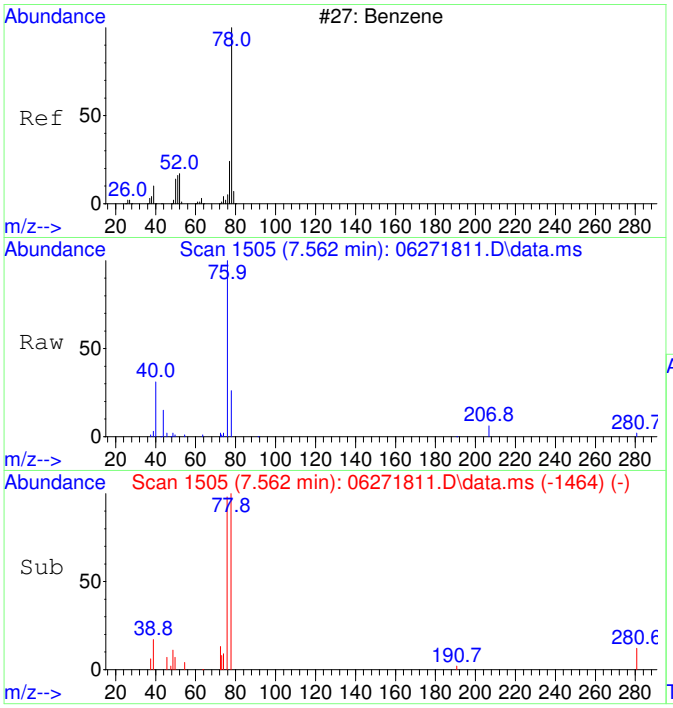


#32
Carbon tetrachloride SCAN
Concen: 26.20 ug/L
RT: 7.234 min Scan# 1478
Delta R.T. 0.012 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:117 Resp: 201

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#

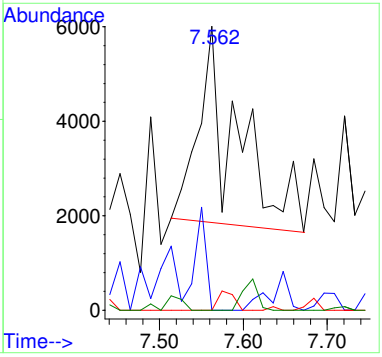


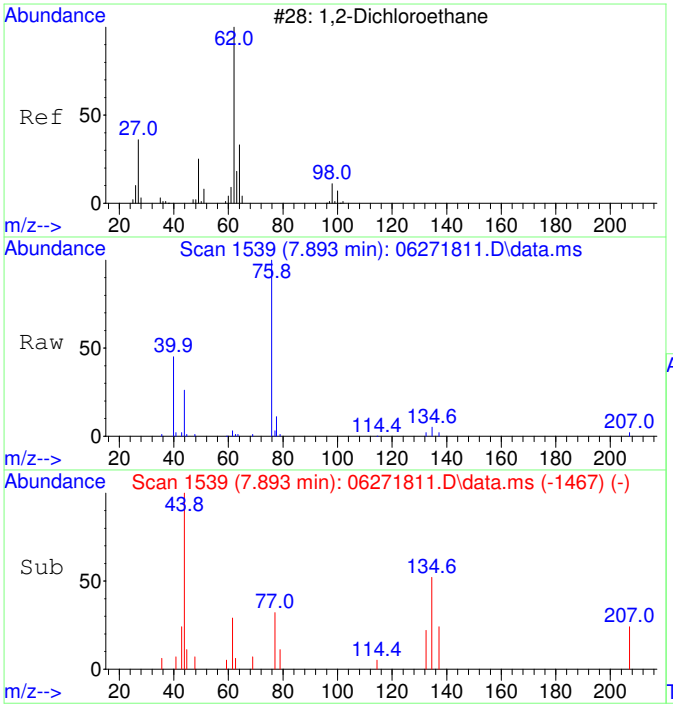


#33
Benzene SCAN
Concen: 561.82 ug/L
RT: 7.562 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 78 Resp: 13045

Ion	Ratio	Lower	Upper
78	100		
77	13.7	3.0	63.0
51	0.0	0.0	56.4
52	0.0	0.0	48.0

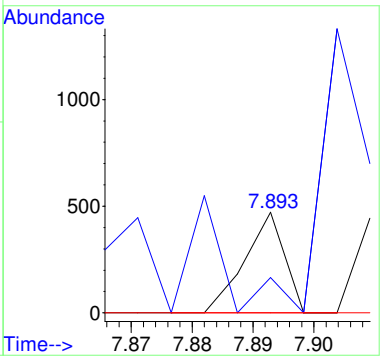


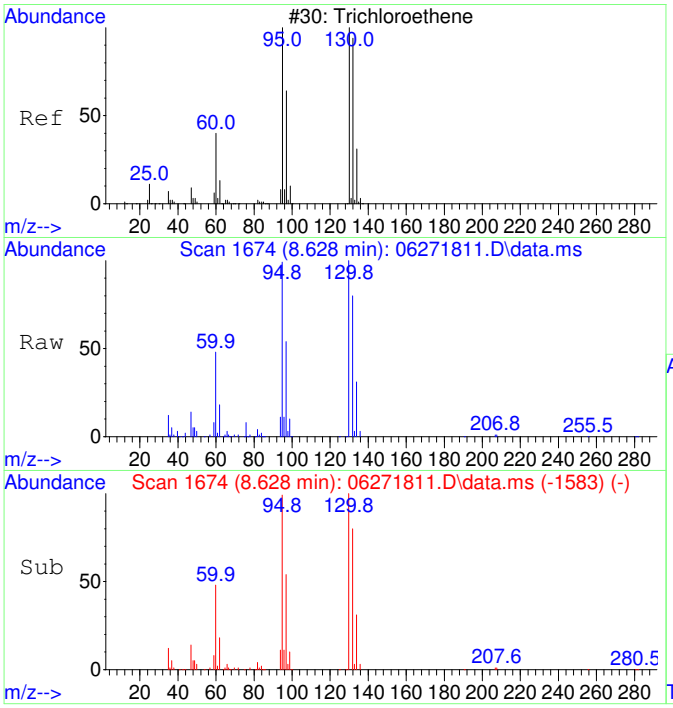


#34
1,2-Dichloroethane SCAN
Concen: 27.03 ug/L
RT: 7.893 min Scan# 1539
Delta R.T. 0.294 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 62 Resp: 214

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

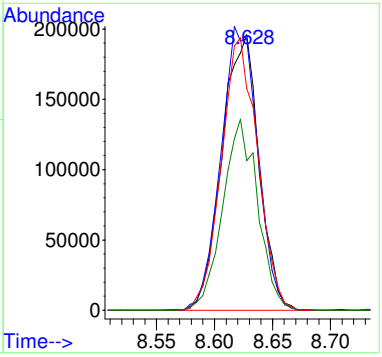


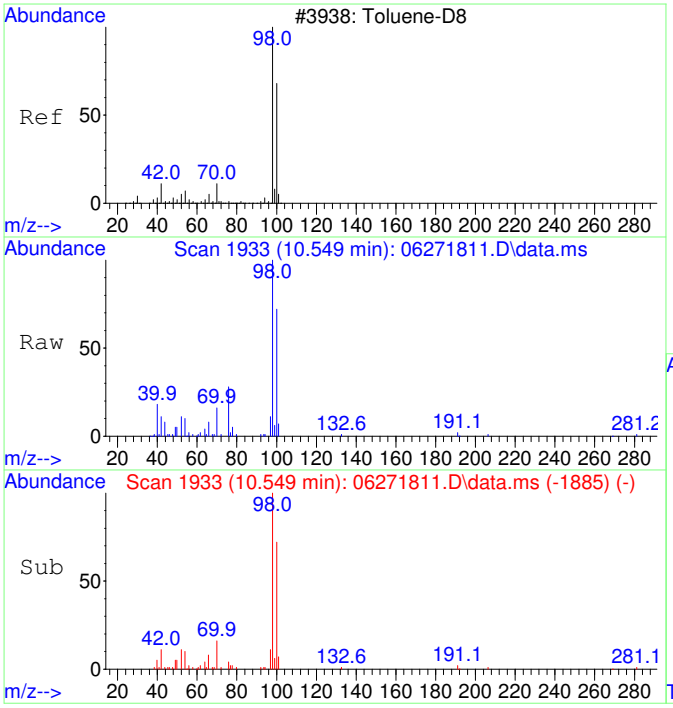


#35
Trichloroethene SCAN
Concen: 76861.95 ug/L
RT: 8.628 min Scan# 1674
Delta R.T. -0.006 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:130 Resp: 436723

Ion	Ratio	Lower	Upper
130	100		
95	102.8	70.5	130.5
132	96.9	63.8	123.8
97	65.6	34.8	94.8

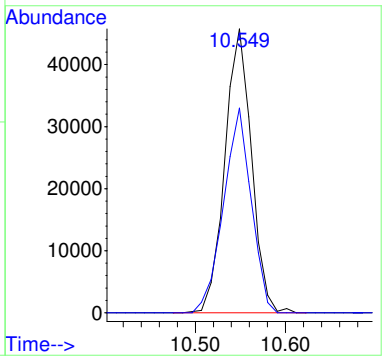


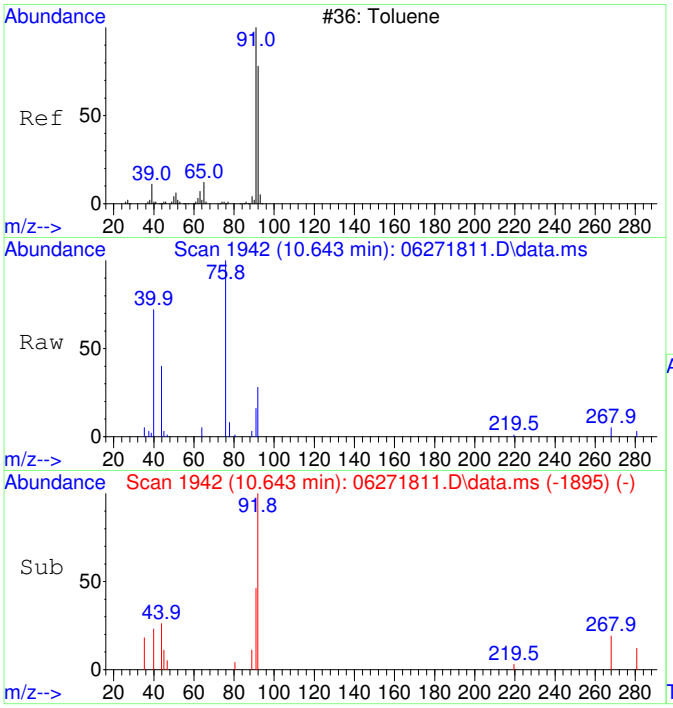


#36
Toluene-d8 SCAN
Concen: 4676.00 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 98 Resp: 94243

Ion	Ratio	Lower	Upper
98	100		
100	74.7	39.5	99.5

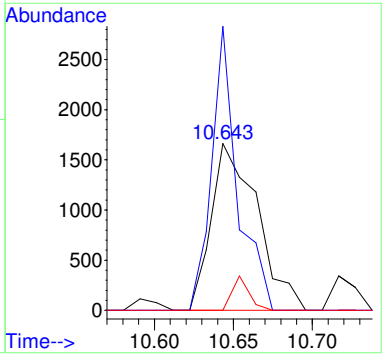


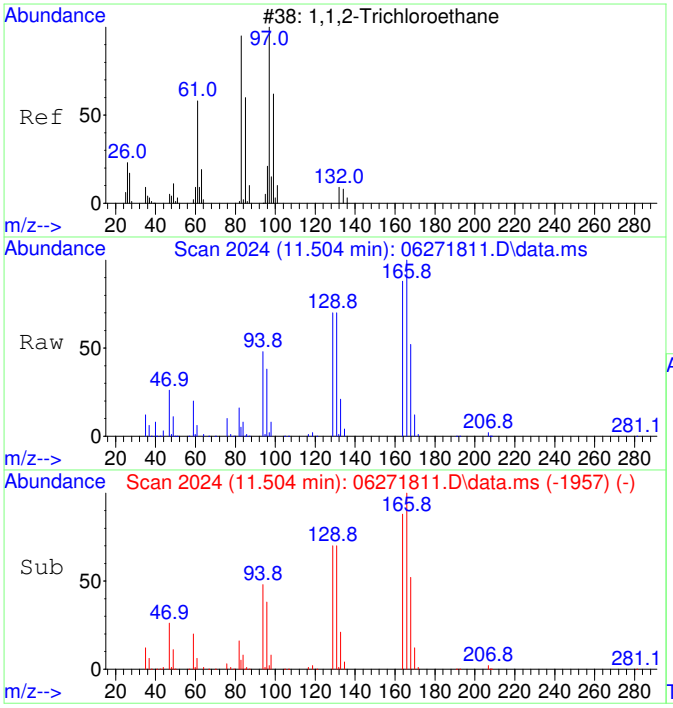


#37
Toluene SCAN
Concen: 131.21 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.011 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 3378

Ion	Ratio	Lower	Upper
91	100		
92	94.9	26.6	86.6#
65	7.5	0.0	42.3

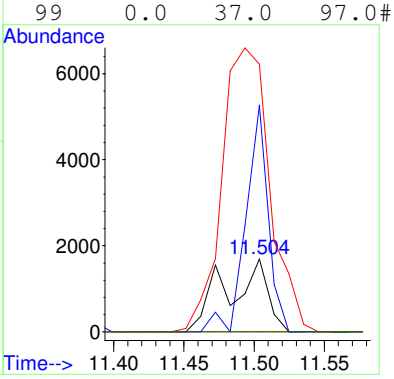


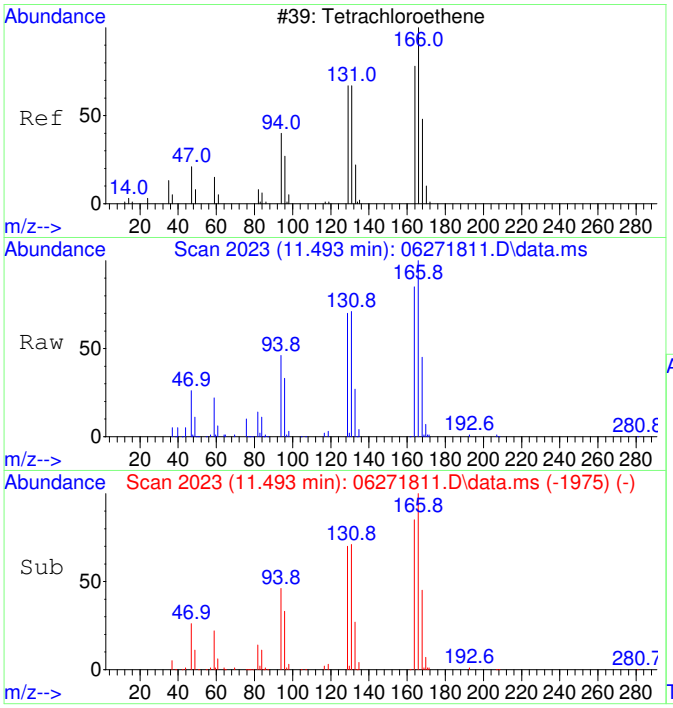


#38
1,1,2-Trichloroethane SCAN
Concen: 701.95 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.199 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 97 Resp: 3463

Ion	Ratio	Lower	Upper
97	100		
83	169.0	63.6	123.6#
61	455.3	44.9	104.9#
99	0.0	37.0	97.0#

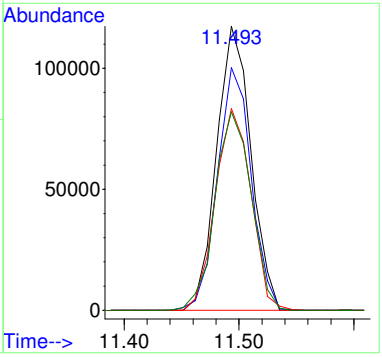


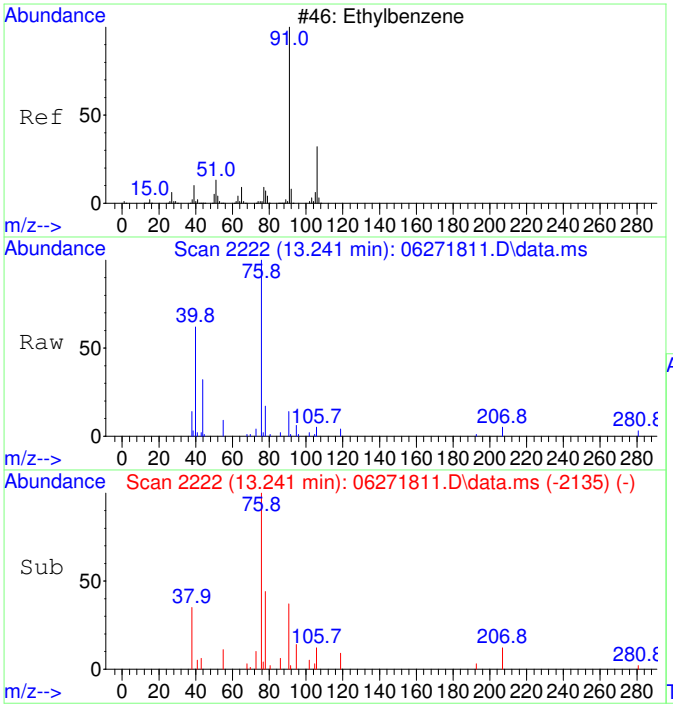


#39
Tetrachloroethene SCAN
Concen: 43227.85 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:166 Resp: 244217

Ion	Ratio	Lower	Upper
166	100		
164	84.3	43.3	103.3
131	73.4	35.6	95.6
129	73.8	36.6	96.6

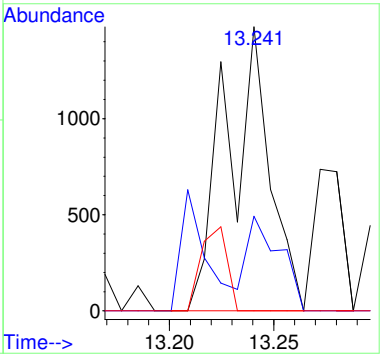


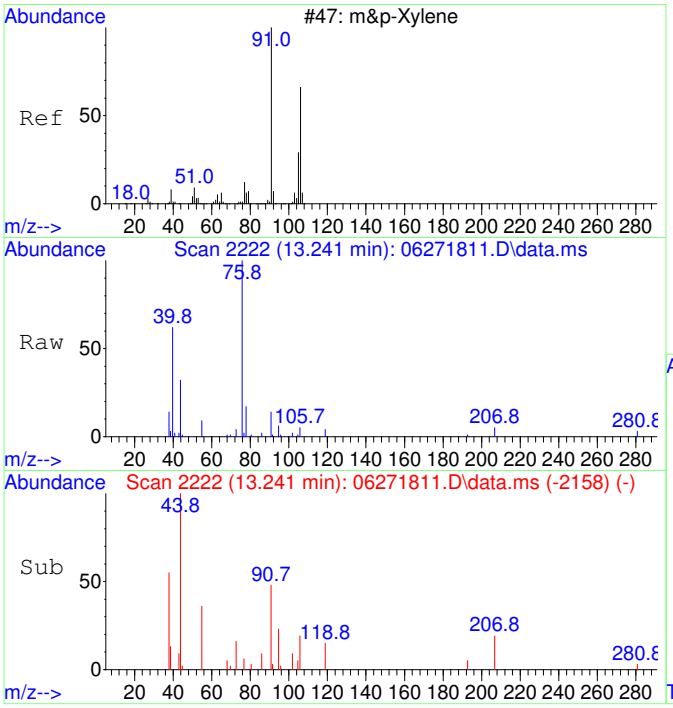


#42
Ethylbenzene SCAN
Concen: 71.78 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.191 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 2148

Ion	Ratio	Lower	Upper
91	100		
106	20.0	3.2	63.2
51	17.8	0.0	40.1

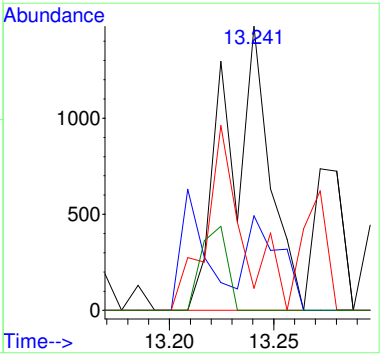


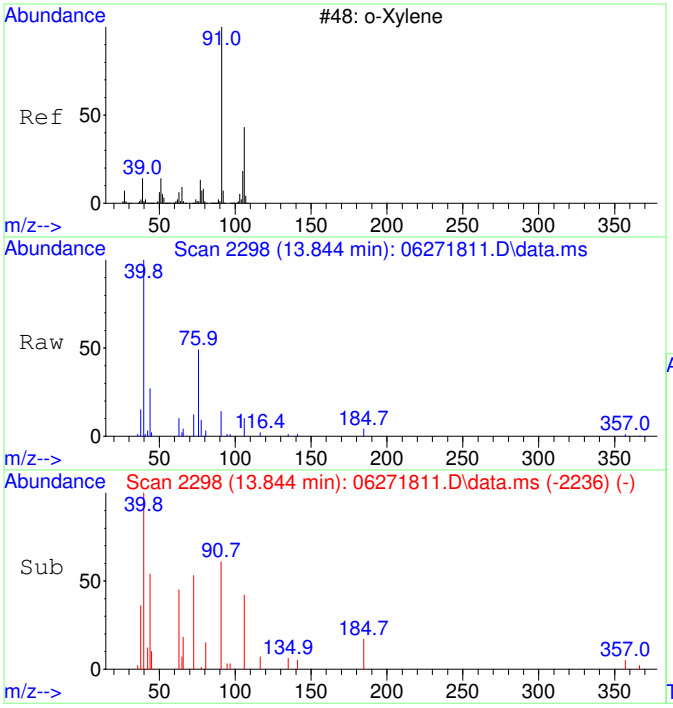


#43
m&p-Xylene SCAN
Concen: 51.71 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 2148

Ion	Ratio	Lower	Upper
91	100		
106	20.0	20.1	80.1#
105	54.7	0.0	51.1#
51	17.8	0.0	40.7

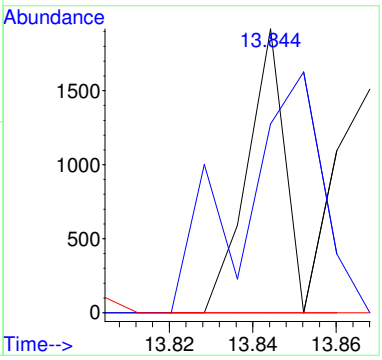


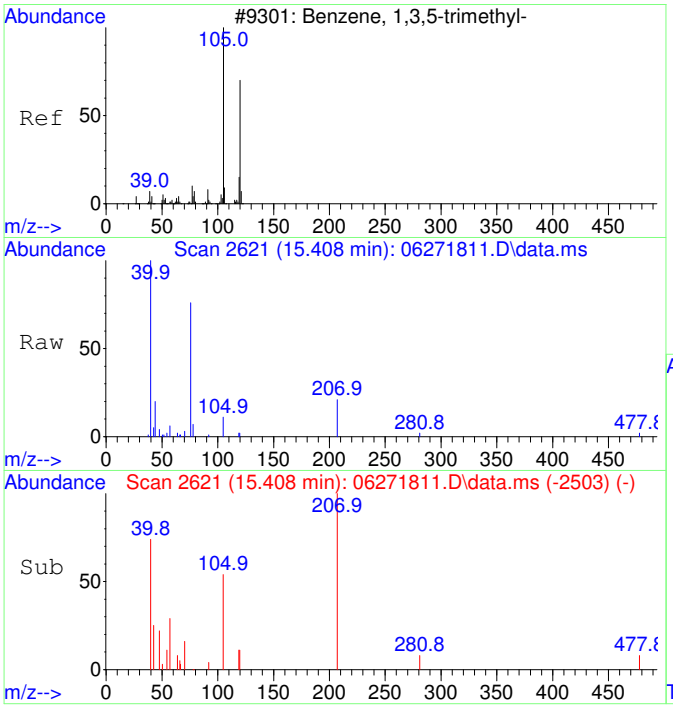


#44
o-Xylene SCAN
Concen: 50.59 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 91 Resp: 1196

Ion	Ratio	Lower	Upper
91	100		
106	180.5	21.3	81.3#
105	0.0	0.0	55.2

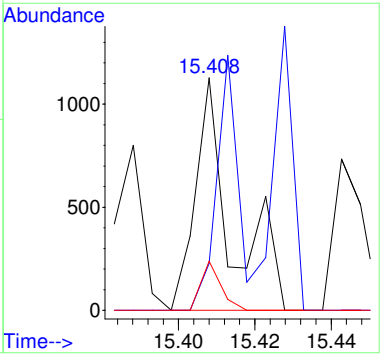


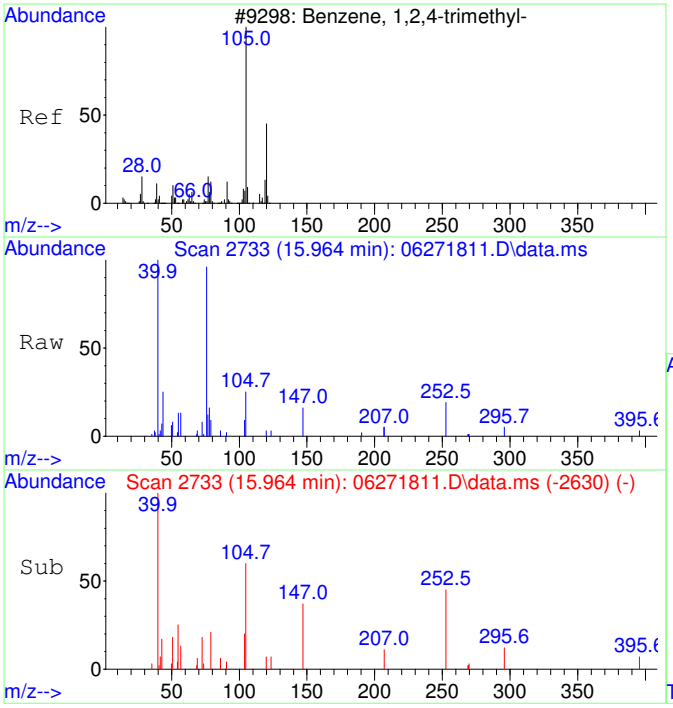


#46
1,3,5-Trimethylbenzene SCAN
Concen: 31.23 ug/L
RT: 15.408 min Scan# 2621
Delta R.T. -0.005 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:105 Resp: 732

Ion	Ratio	Lower	Upper
105	100		
120	54.8	16.8	76.8
119	11.9	0.0	41.5

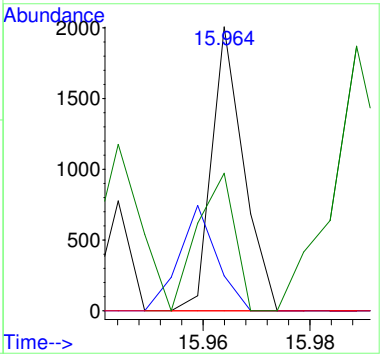




#47
1,2,4-Trimethylbenzene SCAN
Concen: 34.71 ug/L
RT: 15.964 min Scan# 2733
Delta R.T. 0.010 min
Lab File: 06271811.D
Acq: 27 Jun 2018 13:28

Tgt Ion:105 Resp: 834

Ion	Ratio	Lower	Upper
105	100		
120	43.8	15.4	75.4
119	0.0	0.0	41.7
77	56.8	0.0	42.0#



1806075-03

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271812.D
Acq On : 27 Jun 2018 13:52
InstName : AG5975C
Operator : TD
Sample : 1806075-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Before Manual Integration

Quant Time: Jun 27 14:11:27 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

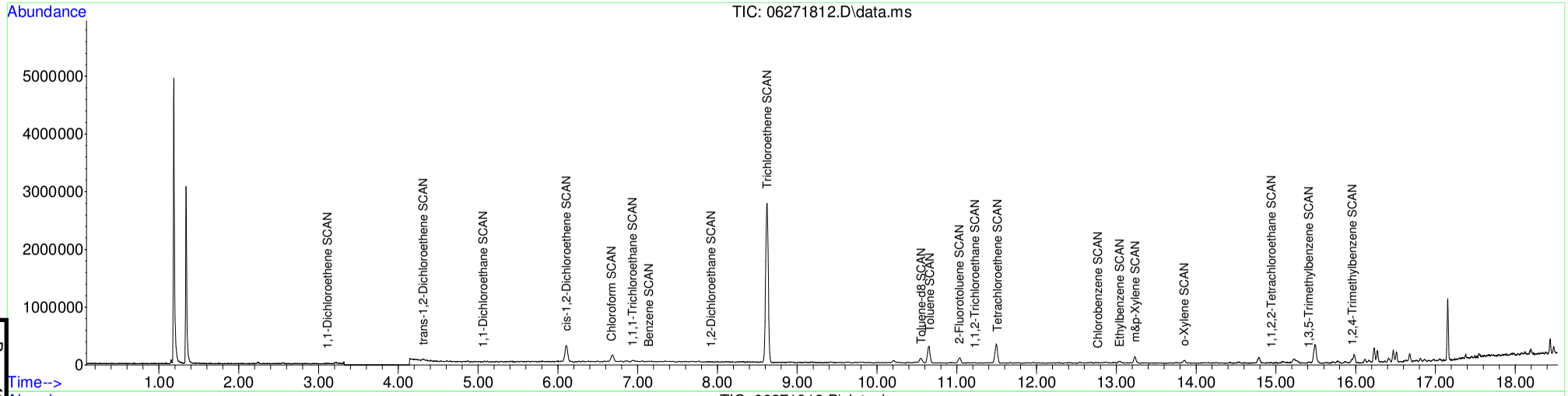
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	116576	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	99040	5230.40 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.61%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	8678	1776.31 ug/L	95
3] trans-1,2-Dichloroethene	4.303	61	17793	3413.35 ug/L	100
4] 1,1-Dichloroethane	5.072	63	8279	1276.03 ug/L	98
5] cis-1,2-Dichloroethene	6.101	61	294172	45960.45 ug/L OC	100
6] Chloroform	6.676	83	145915	21172.12 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	13658	2013.40 ug/L	99
8] Carbon tetrachloride	7.211	117	1005	156.40 ug/L	92
9] Benzene	7.552	78	5204	278.03 ug/L	87
10] 1,2-Dichloroethane	7.588	62	227	37.63 ug/L	55
11] Trichloroethene	8.618	130	1789762	347910.30 ug/L OC	99
13] Toluene	10.645	91	395057	15560.53 ug/L	100
15] Tetrachloroethene	11.495	166	202980	28376.71 ug/L OC	100
18] Ethylbenzene	13.035	91	33348	1094.55 ug/L	99
19] m&p-Xylene	13.226	91	115892	4928.42 ug/L	100
20] o-Xylene	13.846	91	46697	1875.05 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.932	83	728	67.88 ug/L	62
22] 1,3,5-Trimethylbenzene	15.414	105	22149	786.02 ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	42314	1501.20 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	70301	5175.20 ug/L	93
26) 1,1-Dichloroethene SCAN	3.107	61	2307	680.59 ug/L #	30
27) trans-1,2-Dichloroethe...	4.308	61	14963	3791.65 ug/L	76
28) 1,1-Dichloroethane SCAN	5.065	63	2395	477.06 ug/L	94
29) cis-1,2-Dichloroethene...	6.106	61	210390	48456.16 ug/L	91
30) Chloroform SCAN	6.675	83	100016	18766.95 ug/L	92
31) 1,1,1-Trichloroethane ...	6.930	97	13540	2854.06 ug/L	86
33) Benzene SCAN	7.137	78	6194	437.82 ug/L	84
34) 1,2-Dichloroethane SCAN	7.920	62	278	57.62 ug/L #	1
35) Trichloroethene SCAN	8.623	130	1084719	313326.07 ug/L	97
36) Toluene-d8 SCAN	10.549	98	67077	5462.26 ug/L	93
37) Toluene SCAN	10.654	91	254339	16213.83 ug/L	94
38) 1,1,2-Trichloroethane ...	11.221	97	558	185.64 ug/L #	24
39) Tetrachloroethene SCAN	11.504	166	133499	38782.84 ug/L	90
40) Chlorobenzene SCAN	12.764	112	392	41.19 ug/L #	1
42) Ethylbenzene SCAN	13.042	91	24916	1366.47 ug/L	94
43) m&p-Xylene SCAN	13.233	91	74662	2949.95 ug/L	95
44) o-Xylene SCAN	13.852	91	30877	2143.45 ug/L	92
45) 1,1,2,2-Tetrachloroeth...	14.942	83	388	56.83 ug/L #	29
46) 1,3,5-Trimethylbenzene...	15.408	105	15957	1117.20 ug/L	94
47) 1,2,4-Trimethylbenzene...	15.954	105	27791	1898.58 ug/L	90

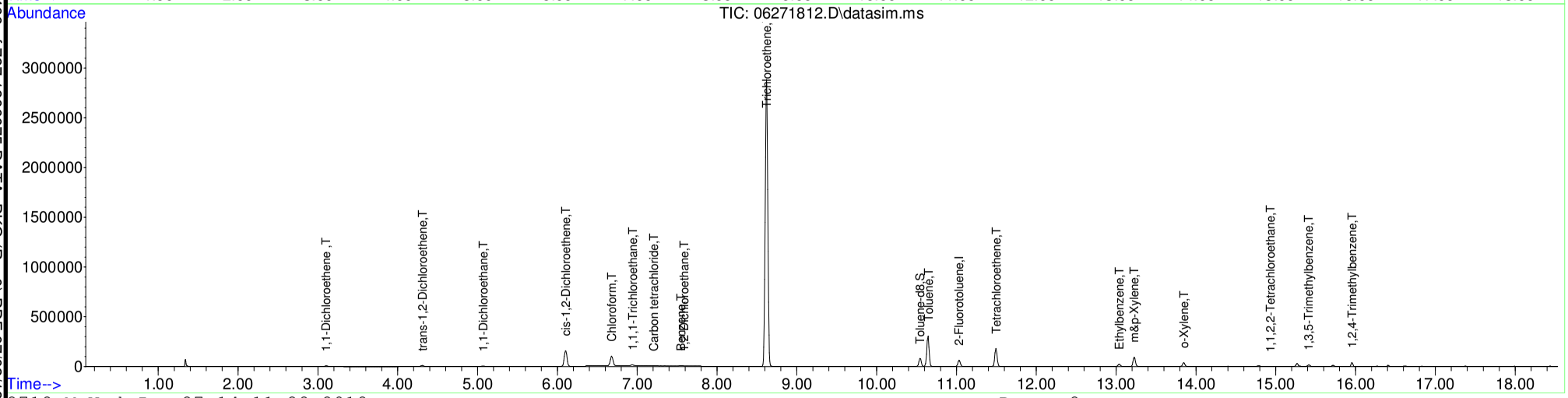
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271812.D
Acq On : 27 Jun 2018 13:52
InstName : AG5975C
Operator : TD
Sample : 1806075-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 14:11:27 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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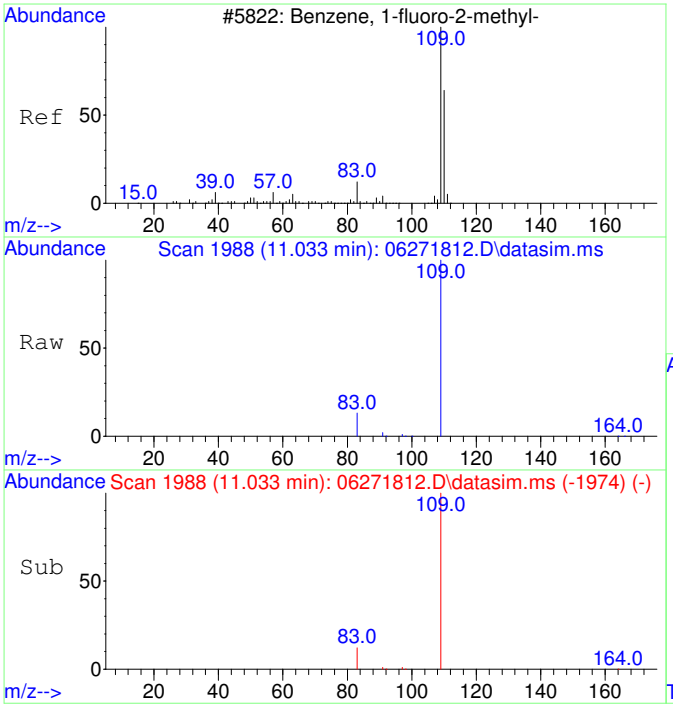
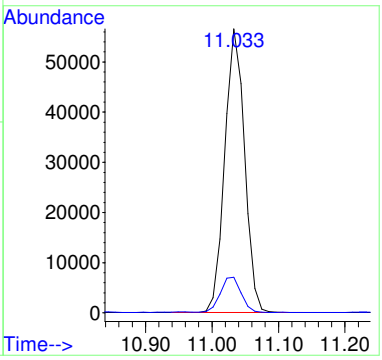
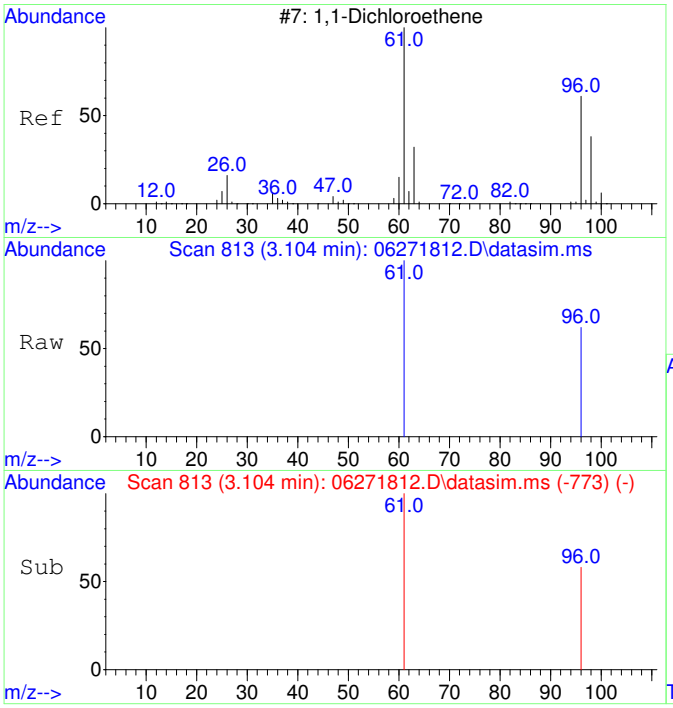


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:109 Resp: 116576

Ion	Ratio	Lower	Upper
109	100		
83	12.8	0.0	44.7

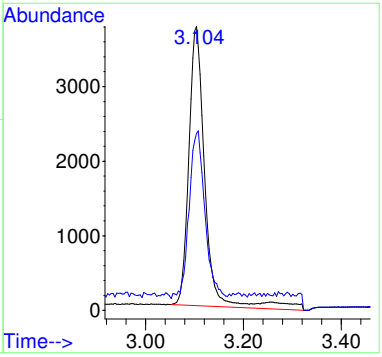




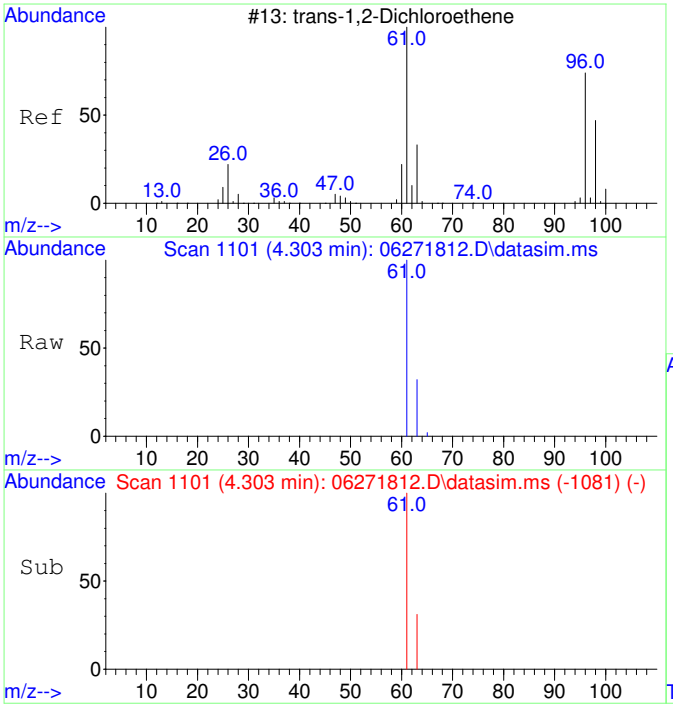
#2
1,1-Dichloroethene
Concen: 1776.31 ug/L
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 8678

Ion	Ratio	Lower	Upper
61	100		
96	62.3	28.7	88.7



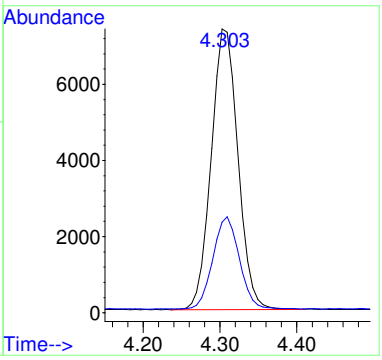
Before MI:
IMPROPER
BASELINE

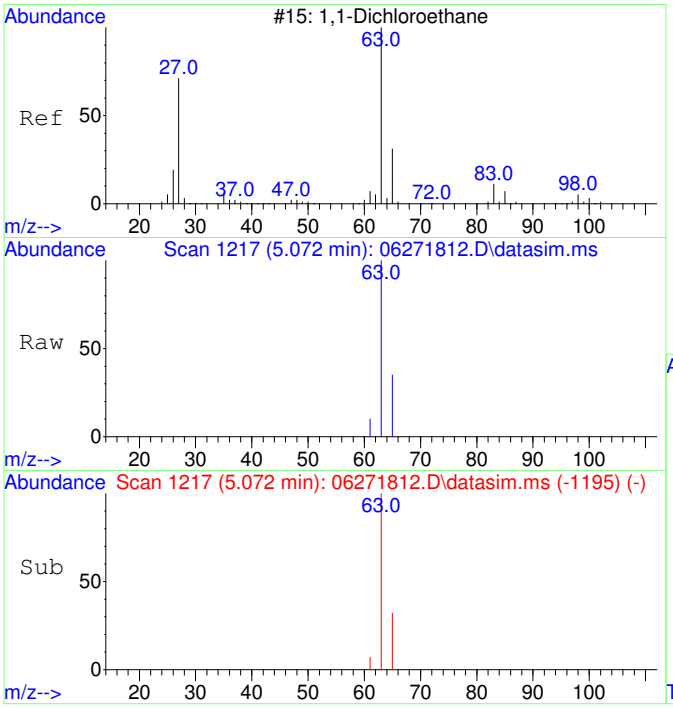


#3
trans-1,2-Dichloroethene
Concen: 3413.35 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.020 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 17793

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.0	62.0

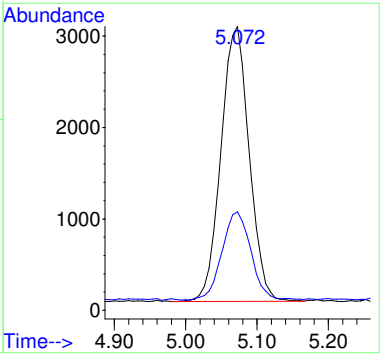


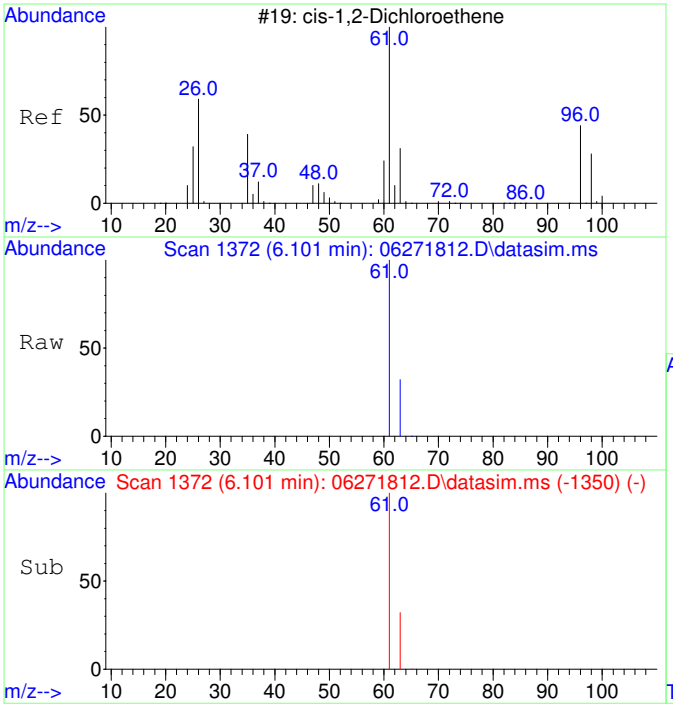


#4
1,1-Dichloroethane
Concen: 1276.03 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.007 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 63 Resp: 8279

Ion	Ratio	Lower	Upper
63	100		
65	32.7	1.5	61.5

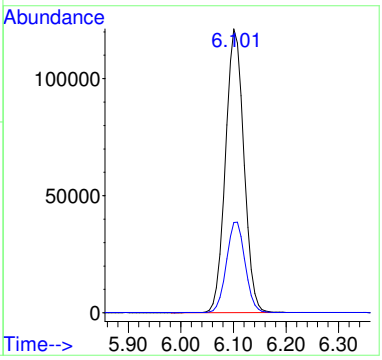


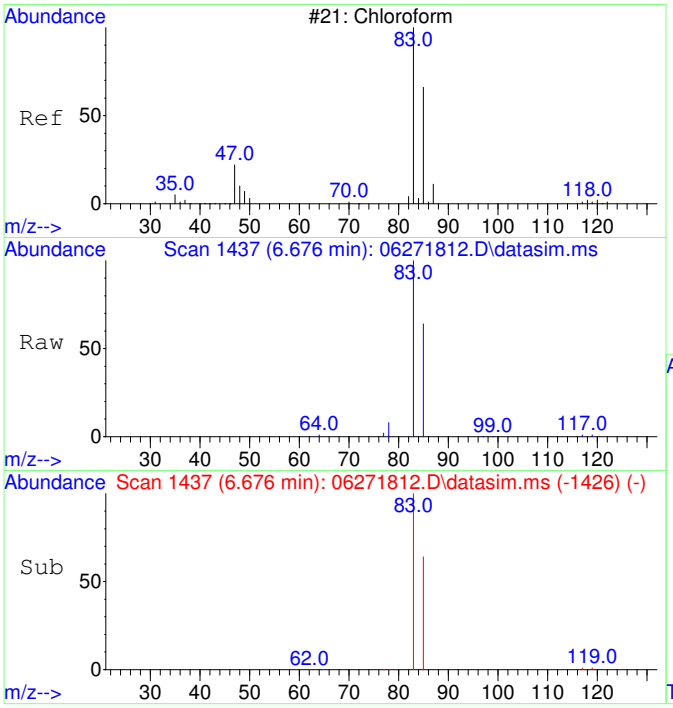


#5
cis-1,2-Dichloroethene
Concen: 45960.45 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 294172

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.2	62.2

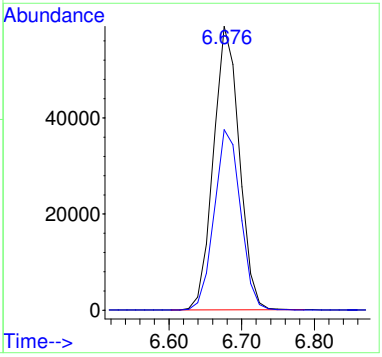


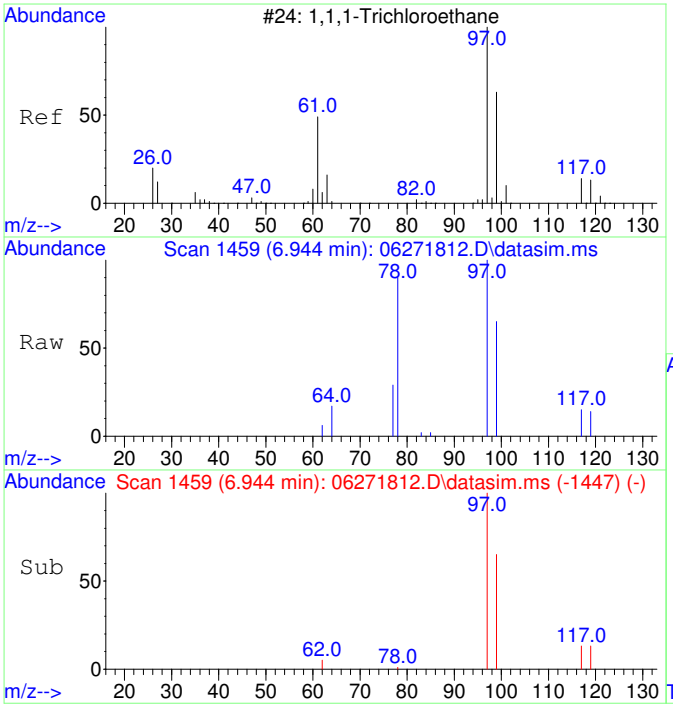


#6
Chloroform
Concen: 21172.12 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 83 Resp: 145915

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.8	94.8

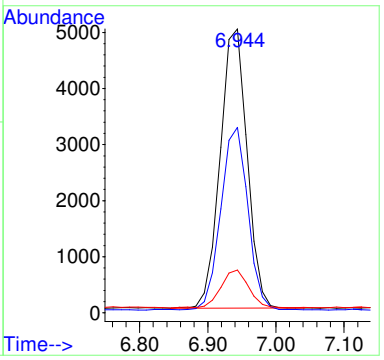


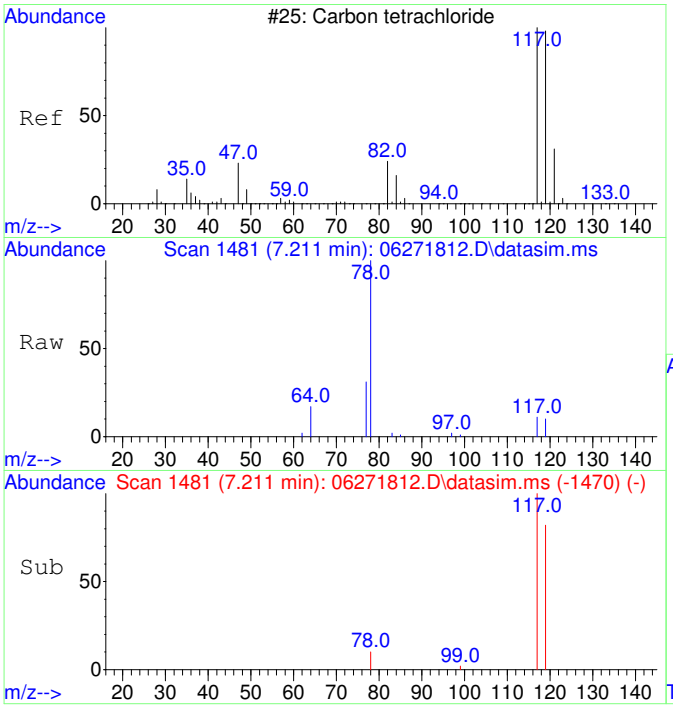


#7
1,1,1-Trichloroethane
Concen: 2013.40 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 97 Resp: 13658

Ion	Ratio	Lower	Upper
97	100		
99	65.5	34.6	94.6
117	13.8	0.0	42.9

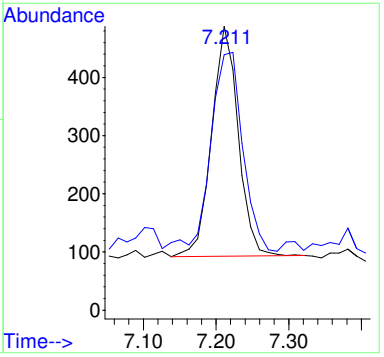


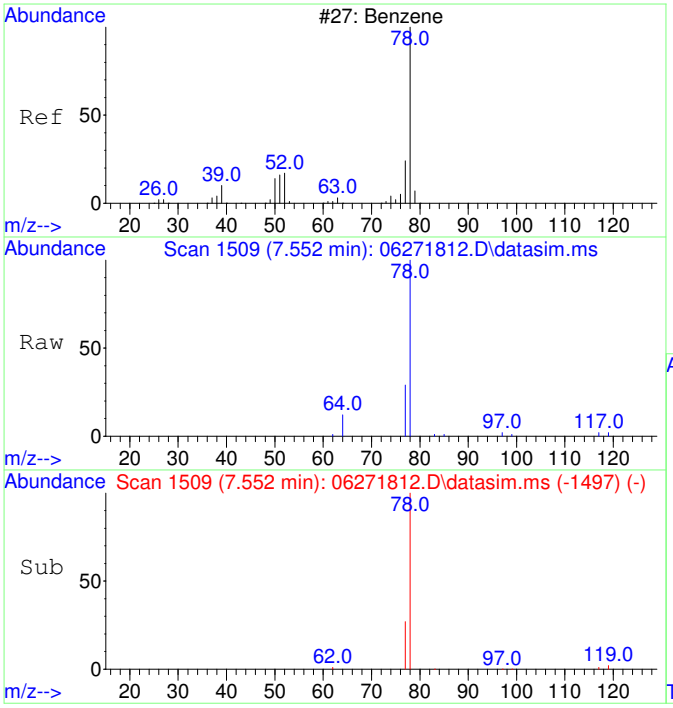


#8
Carbon tetrachloride
Concen: 156.40 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:117 Resp: 1005

Ion	Ratio	Lower	Upper
117	100		
119	103.4	65.9	125.9

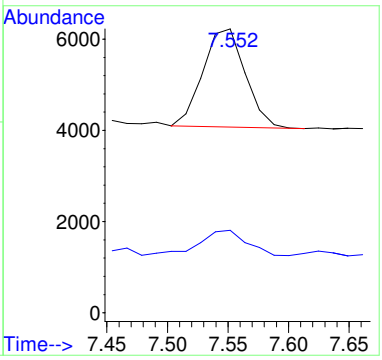


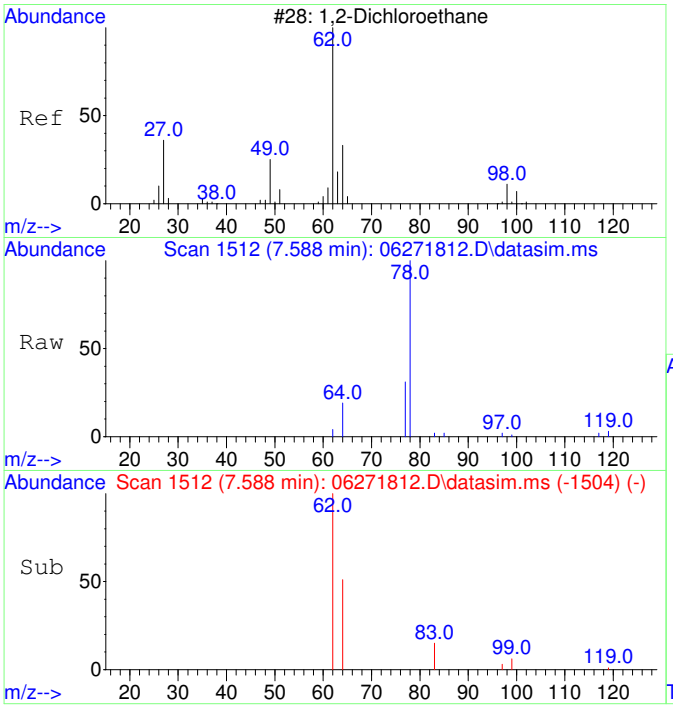


#9
Benzene
Concen: 278.03 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 78 Resp: 5204

Ion	Ratio	Lower	Upper
78	100		
77	29.1	0.0	53.0

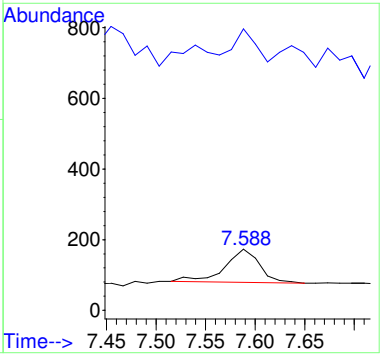


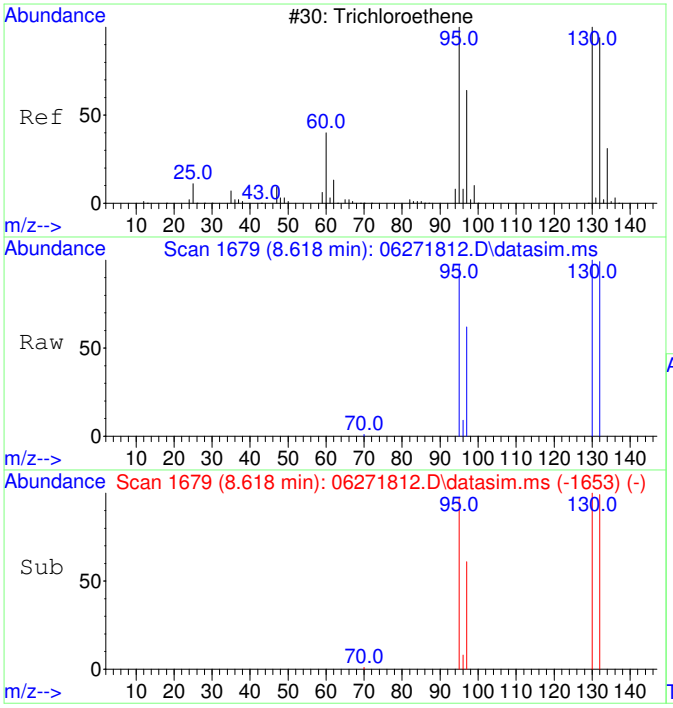


#10
1,2-Dichloroethane
Concen: 37.63 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 62 Resp: 227

Ion	Ratio	Lower	Upper
62	100		
64	57.7	2.3	62.3

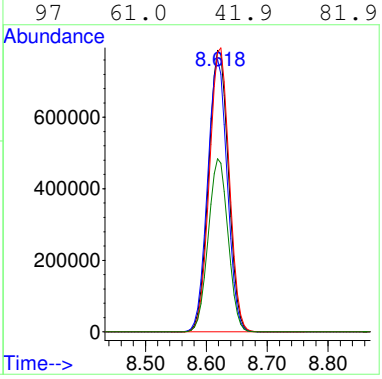


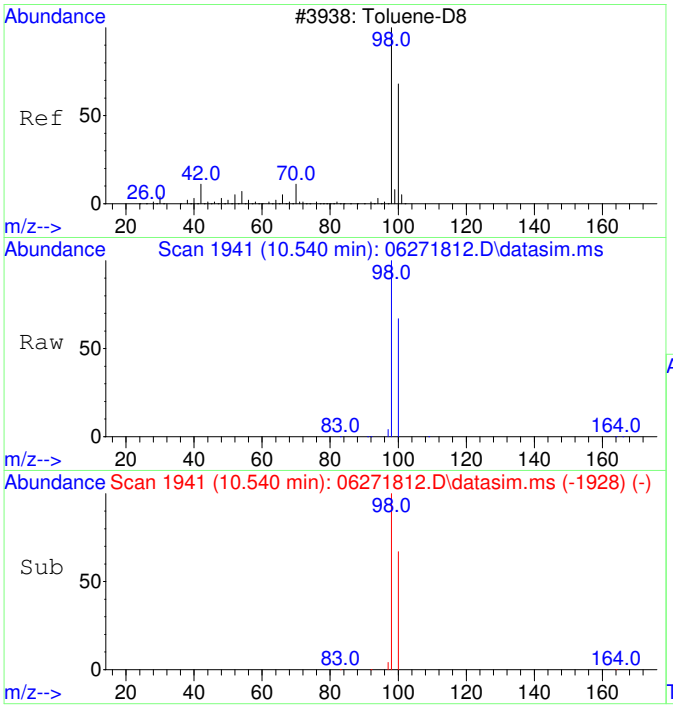


#11
Trichloroethene
Concen: 347910.30 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:130 Resp: 1789762

Ion	Ratio	Lower	Upper
130	100		
95	95.5	66.0	126.0
132	100.0	78.8	118.8
97	61.0	41.9	81.9

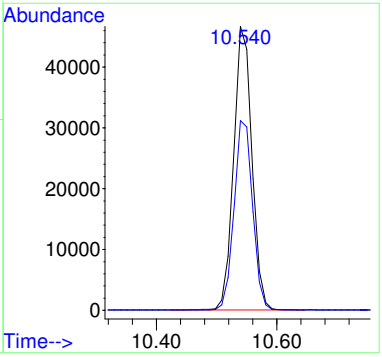


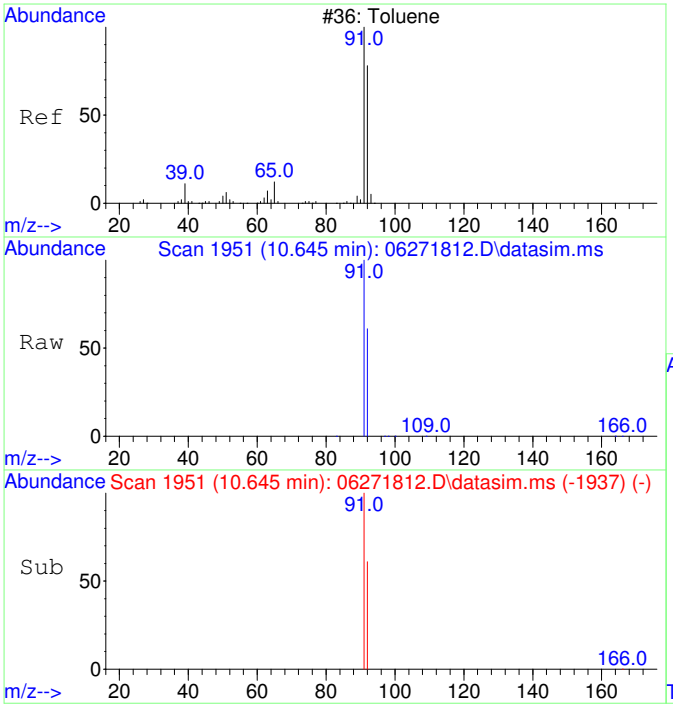


#12
Toluene-d8
Concen: 5230.40 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 98 Resp: 99040

Ion	Ratio	Lower	Upper
98	100		
100	67.8	38.7	98.7

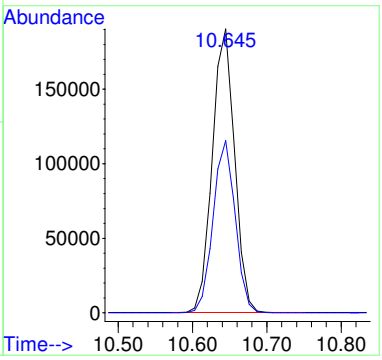


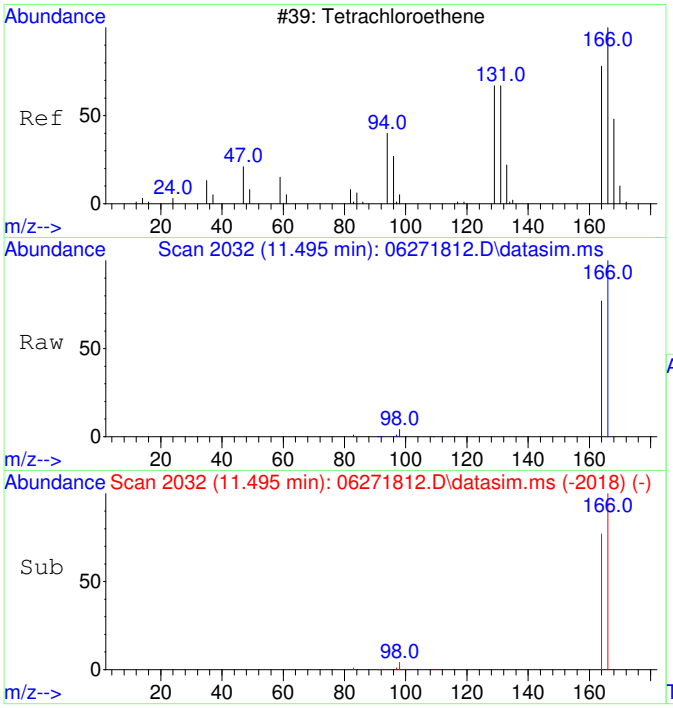


#13
Toluene
Concen: 15560.53 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 395057

Ion	Ratio	Lower	Upper
91	100		
92	60.0	30.0	90.0

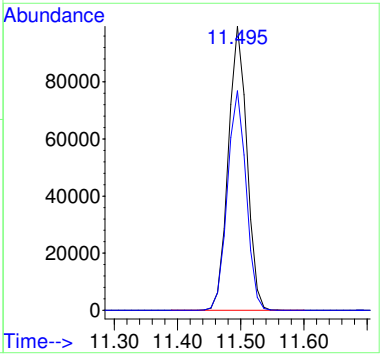


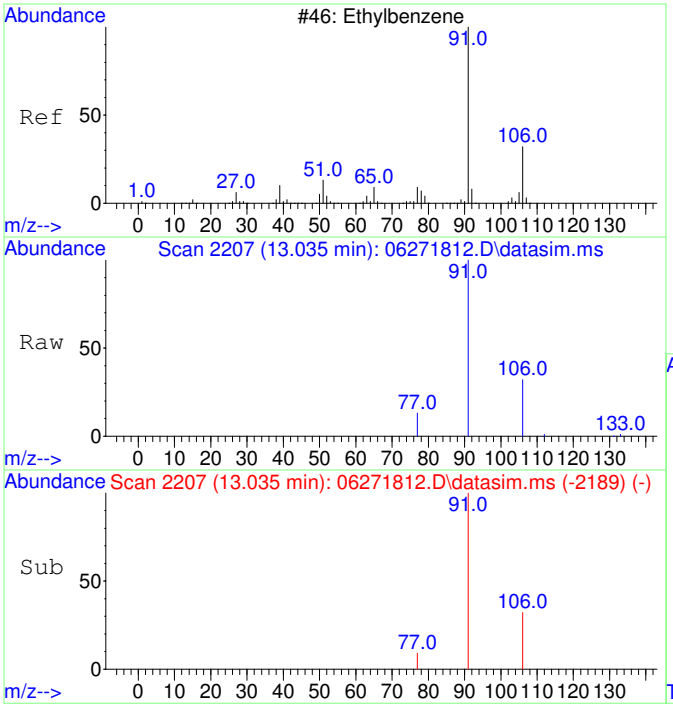


#15
Tetrachloroethene
Concen: 28376.71 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:166 Resp: 202980

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

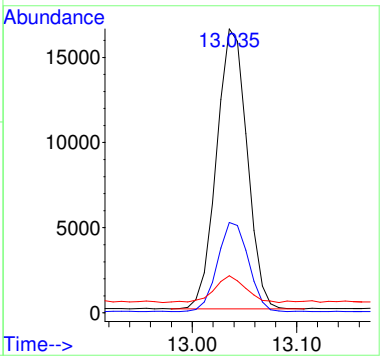


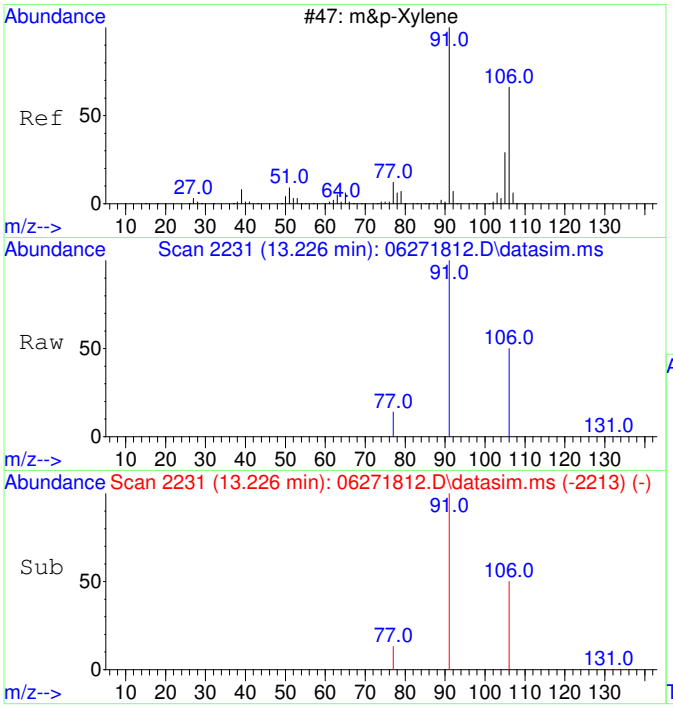


#18
Ethylbenzene
Concen: 1094.55 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 33348

Ion	Ratio	Lower	Upper
91	100		
106	32.3	2.8	62.8
77	9.6	0.0	38.6

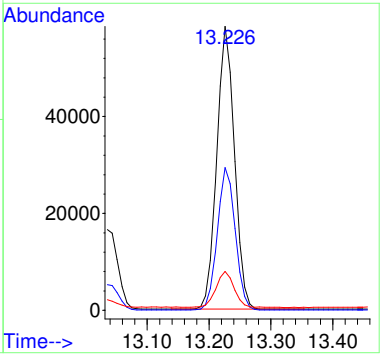


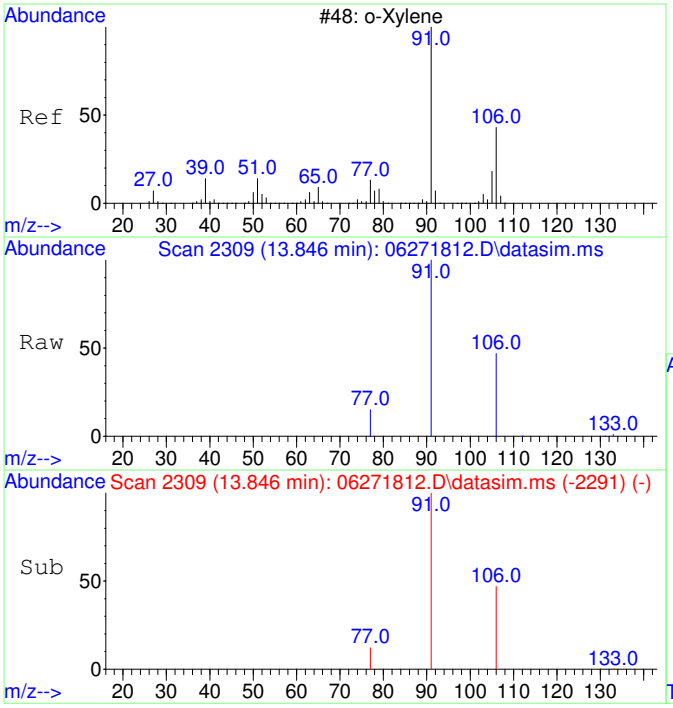


#19
m&p-Xylene
Concen: 4928.42 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 115892

Ion	Ratio	Lower	Upper
91	100		
106	51.0	21.2	81.2
77	12.8	0.0	42.9

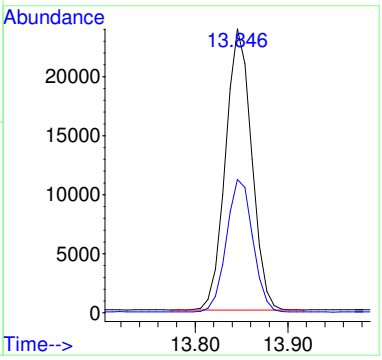


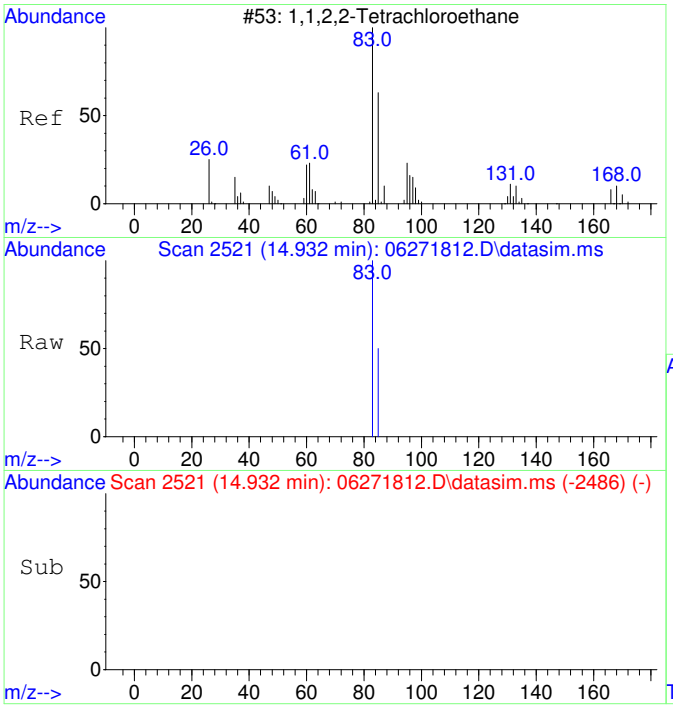


#20
o-Xylene
Concen: 1875.05 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 46697

Ion	Ratio	Lower	Upper
91	100		
106	47.5	18.3	78.3

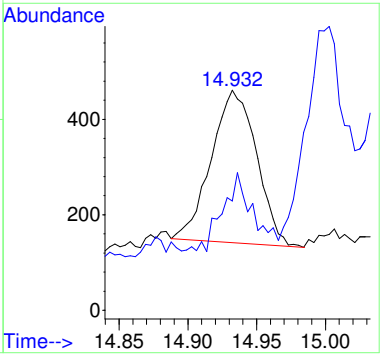


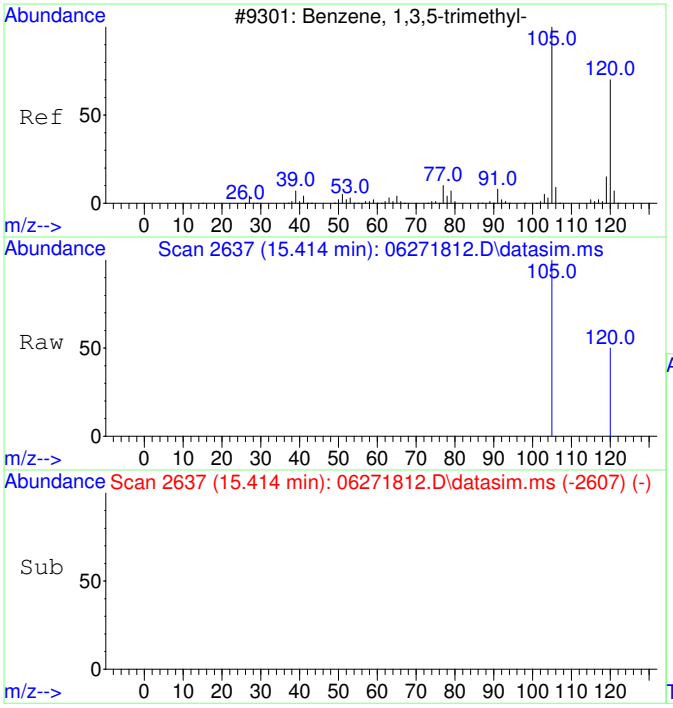


#21
1,1,2,2-Tetrachloroethane
Concen: 67.88 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.019 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 83 Resp: 728

Ion	Ratio	Lower	Upper
83	100		
85	34.6	34.4	94.4

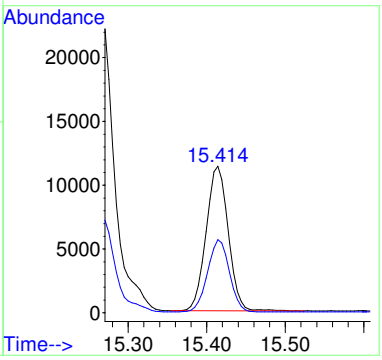


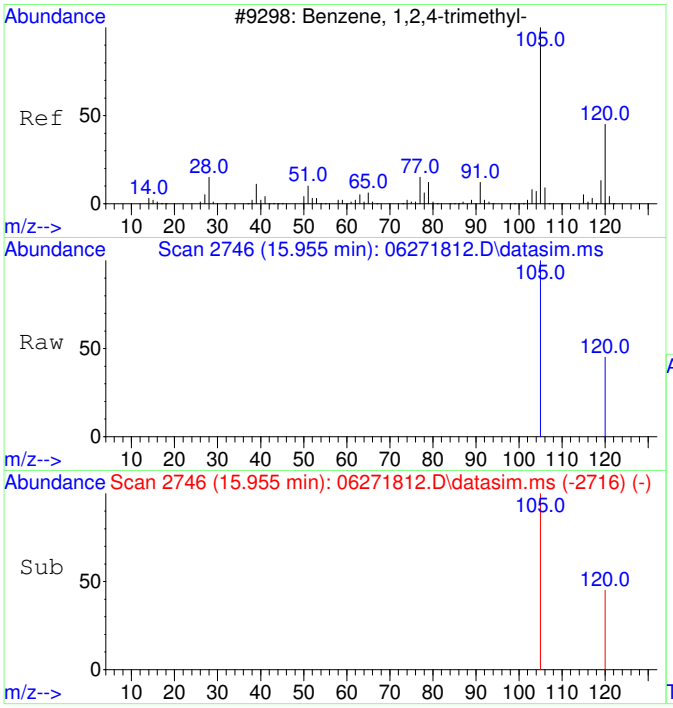


#22
1,3,5-Trimethylbenzene
Concen: 786.02 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:105 Resp: 22149

Ion	Ratio	Lower	Upper
105	100		
120	49.0	19.1	79.1

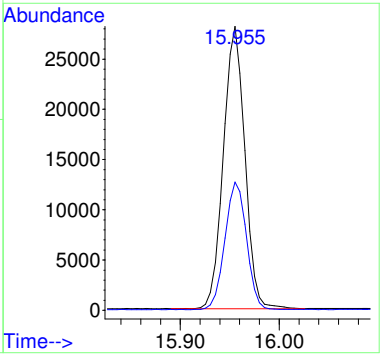


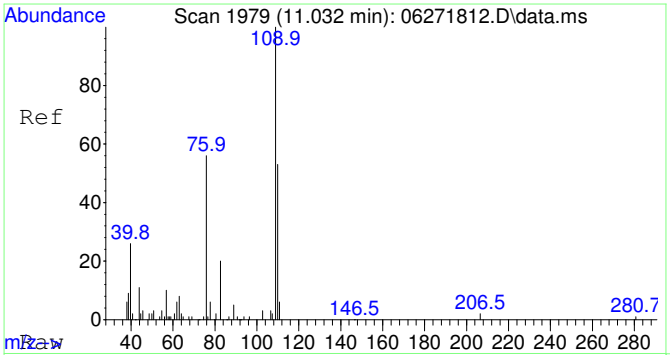


#23
1,2,4-Trimethylbenzene
Concen: 1501.20 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:105 Resp: 42314

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

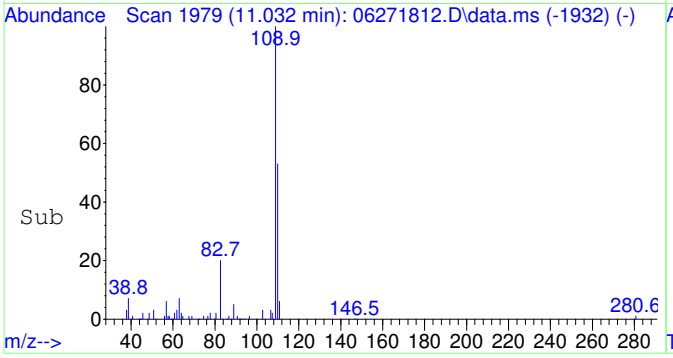


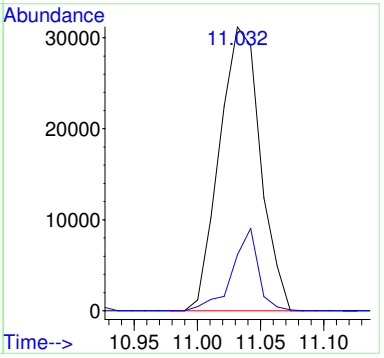


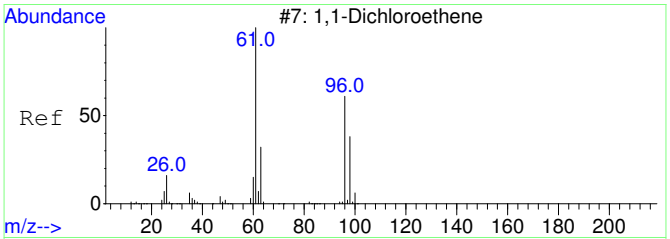
#25
2-Fluorotoluene SCAN
Concen: 5175.20 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

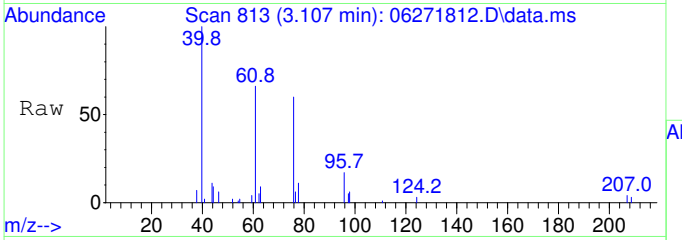
Tgt Ion:109 Resp: 70301

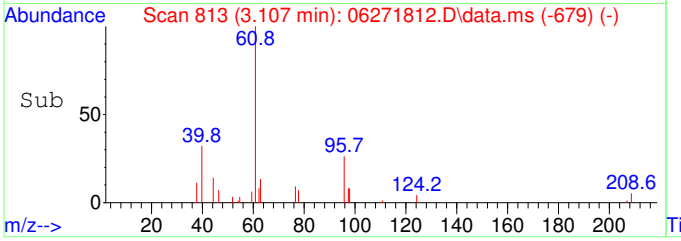
Ion	Ratio	Lower	Upper
109	100		
83	18.5	0.0	45.7







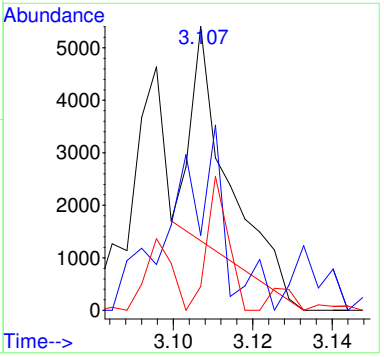


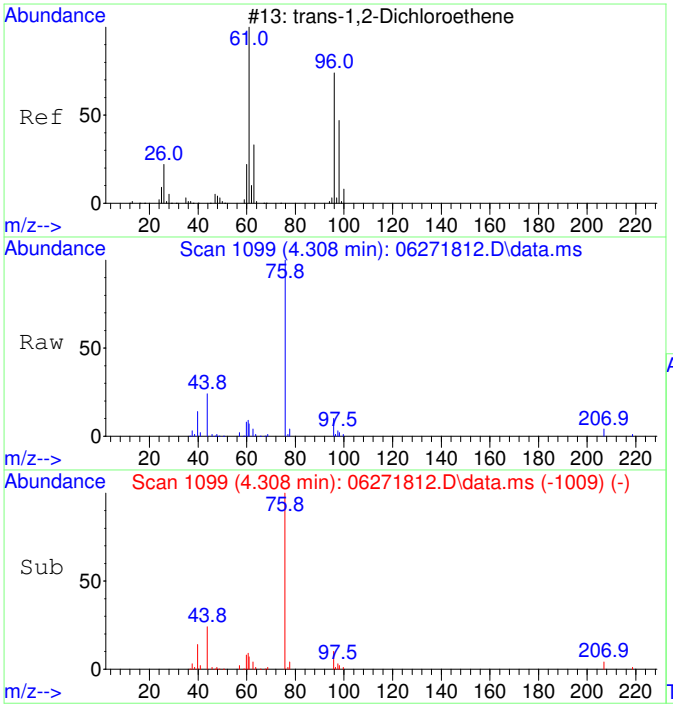


#26
1,1-Dichloroethene SCAN
Concen: 680.59 ug/L
RT: 3.107 min Scan# 813
Delta R.T. -0.004 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 2307

Ion	Ratio	Lower	Upper
61	100		
96	137.7	23.8	83.8#
98	41.0	8.8	68.8

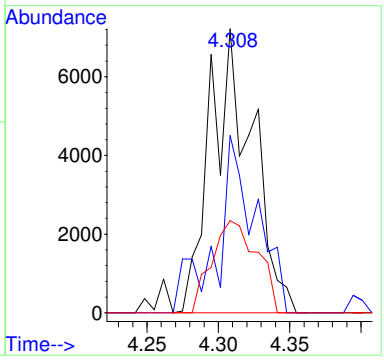


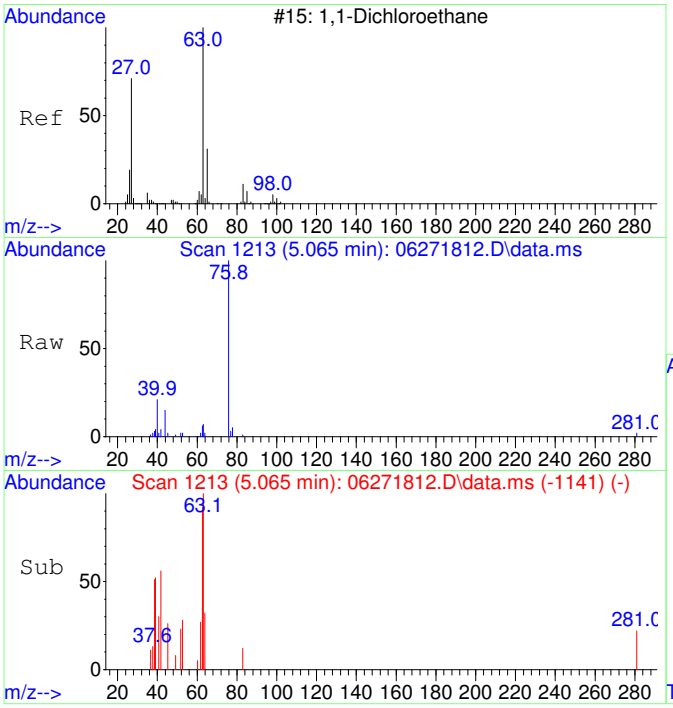


#27
trans-1,2-Dichloroethene SCAN
Concen: 3791.65 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. -0.027 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 14963

Ion	Ratio	Lower	Upper
61	100		
96	42.6	37.9	97.9
98	34.7	12.7	72.7

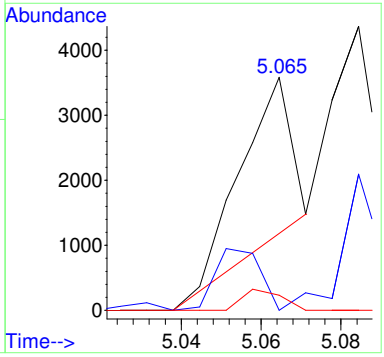


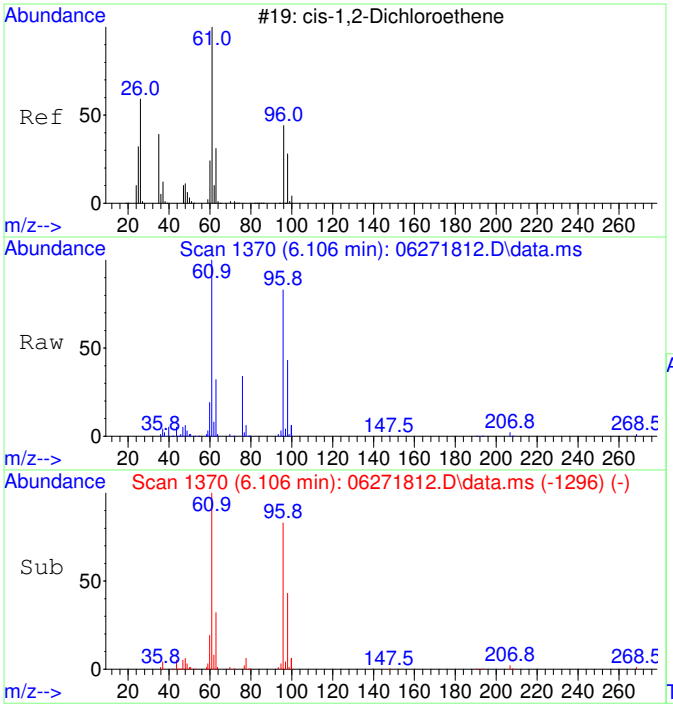


#28
1,1-Dichloroethane SCAN
Concen: 477.06 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. -0.020 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 63 Resp: 2395

Ion	Ratio	Lower	Upper
63	100		
65	34.2	7.5	67.5
83	9.2	0.0	34.3

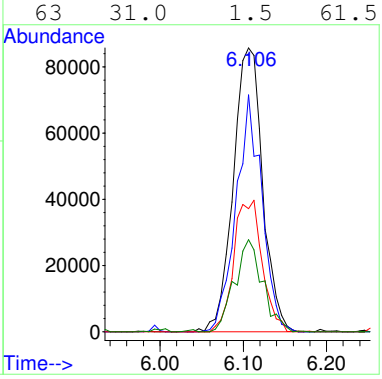


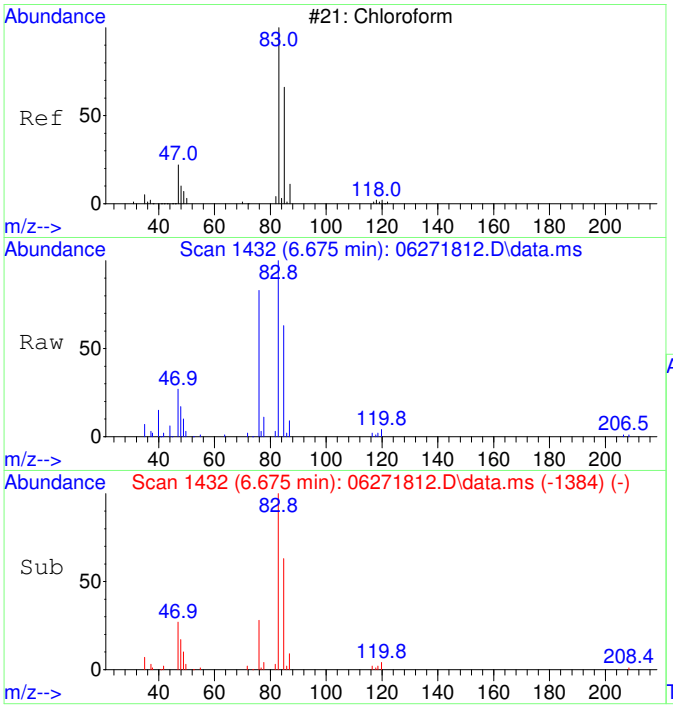


#29
cis-1,2-Dichloroethene SCAN
Concen: 48456.16 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 210390

Ion	Ratio	Lower	Upper
61	100		
96	73.4	28.2	88.2
98	44.7	14.1	74.1
63	31.0	1.5	61.5

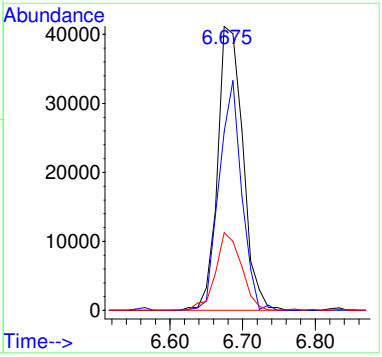


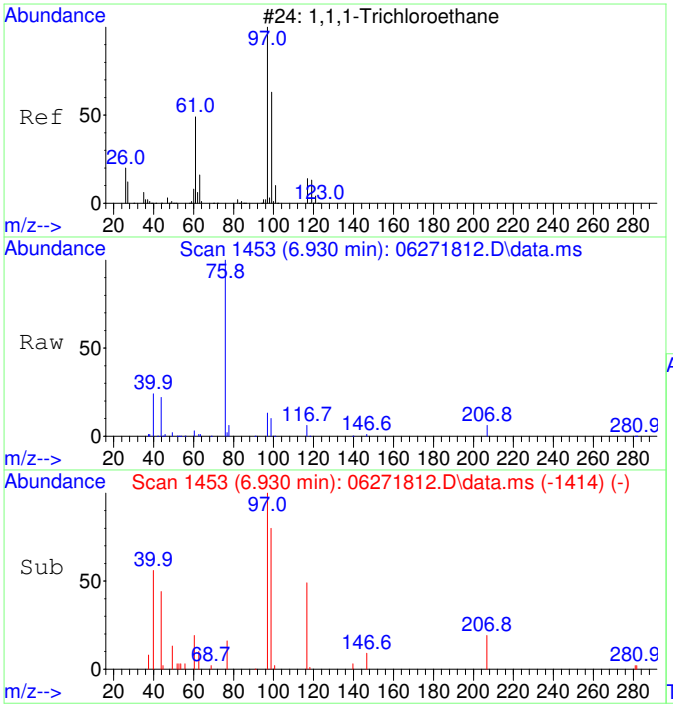


#30
Chloroform SCAN
Concen: 18766.95 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 83 Resp: 100016

Ion	Ratio	Lower	Upper
83	100		
85	71.8	32.6	92.6
47	27.9	0.0	57.9

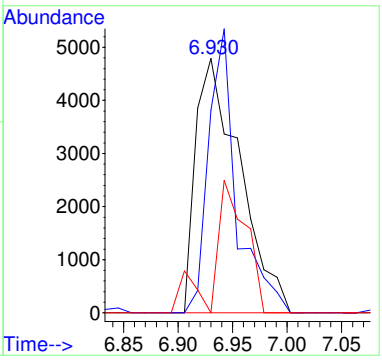


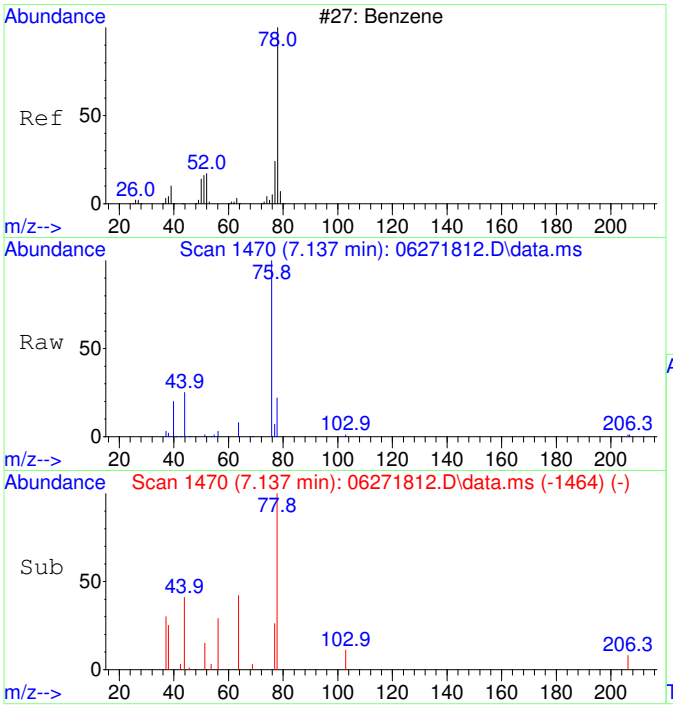


#31
1,1,1-Trichloroethane SCAN
Concen: 2854.06 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. -0.024 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 97 Resp: 13540

Ion	Ratio	Lower	Upper
97	100		
99	70.4	27.9	87.9
61	38.1	15.1	75.1

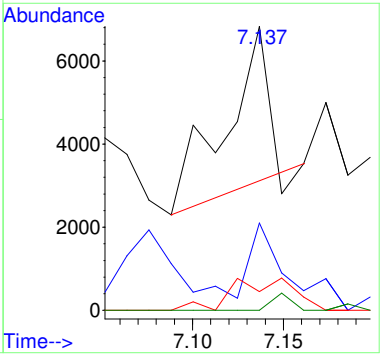


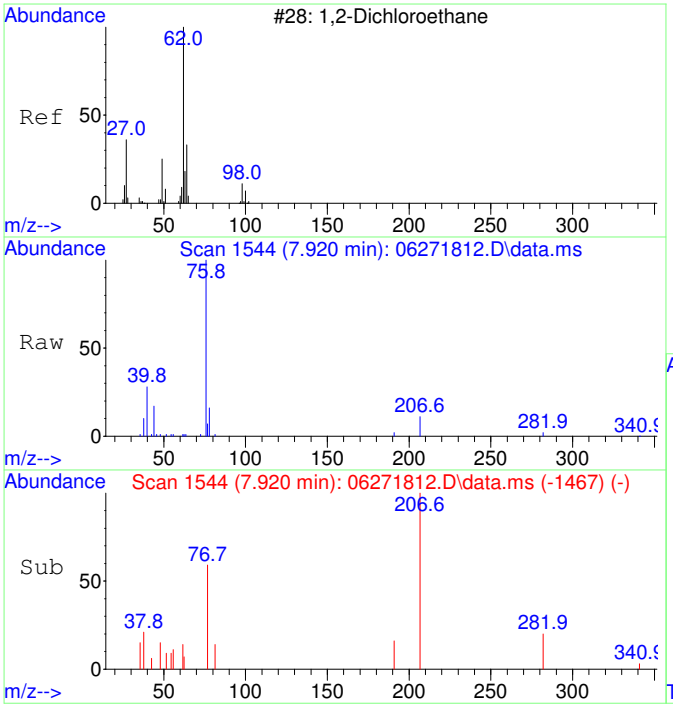


#33
Benzene SCAN
Concen: 437.82 ug/L
RT: 7.137 min Scan# 1470
Delta R.T. -0.426 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 78 Resp: 6194

Ion	Ratio	Lower	Upper
78	100		
77	42.3	3.0	63.0
51	29.6	0.0	56.4
52	4.9	0.0	48.0

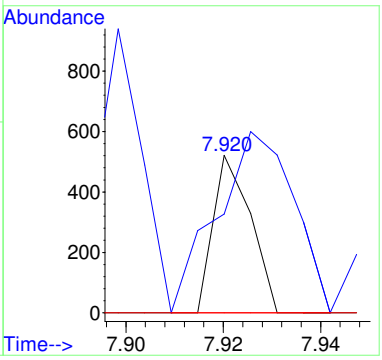


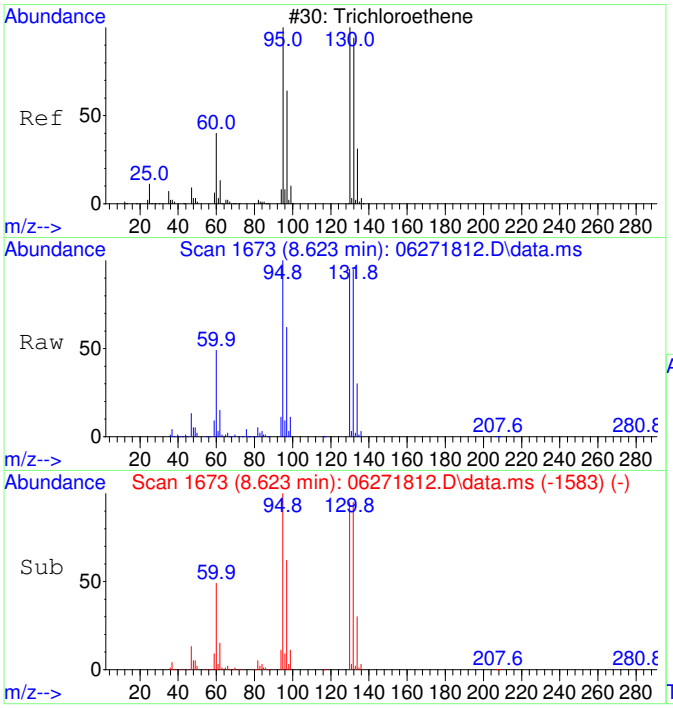


#34
1,2-Dichloroethane SCAN
Concen: 57.62 ug/L
RT: 7.920 min Scan# 1544
Delta R.T. 0.321 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 62 Resp: 278

Ion	Ratio	Lower	Upper
62	100		
64	237.4	1.2	61.2#
49	0.0	10.4	70.4#

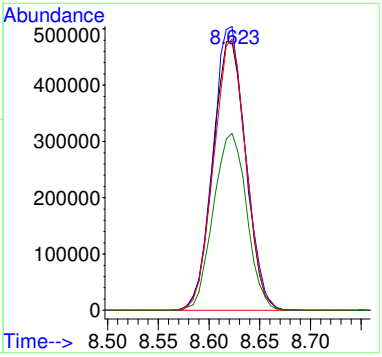


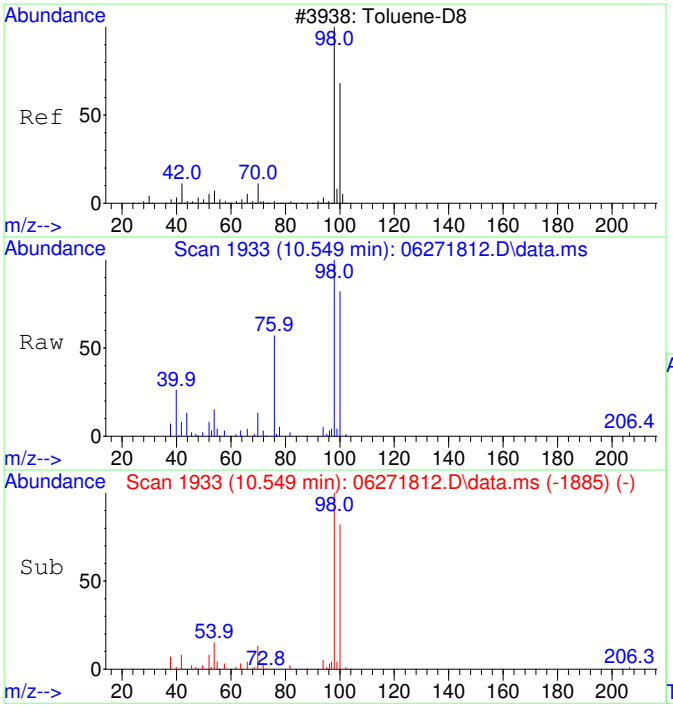


#35
Trichloroethene SCAN
Concen: 313326.07 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:130 Resp: 1084719

Ion	Ratio	Lower	Upper
130	100		
95	103.6	70.5	130.5
132	98.6	63.8	123.8
97	66.2	34.8	94.8

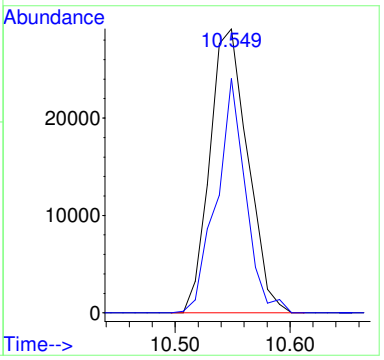


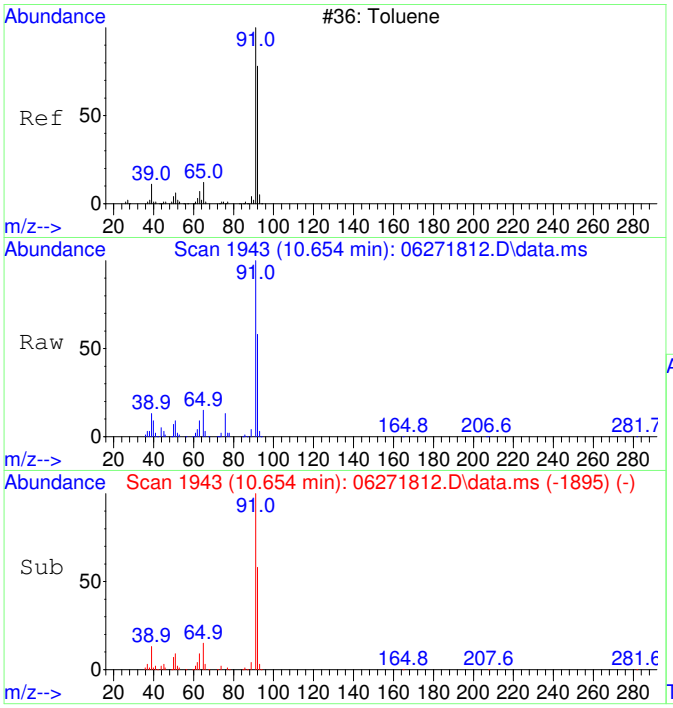


#36
Toluene-d8 SCAN
Concen: 5462.26 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 98 Resp: 67077

Ion	Ratio	Lower	Upper
98	100		
100	63.5	39.5	99.5

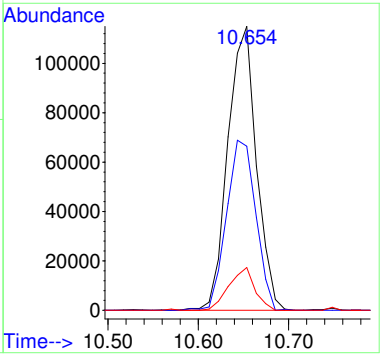


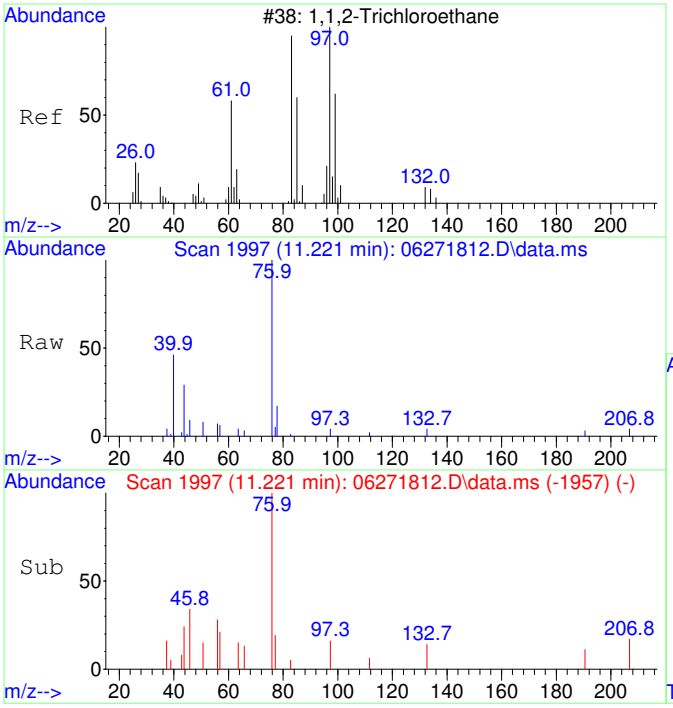


#37
Toluene SCAN
Concen: 16213.83 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 254339

Ion	Ratio	Lower	Upper
91	100		
92	61.3	26.6	86.6
65	13.6	0.0	42.3

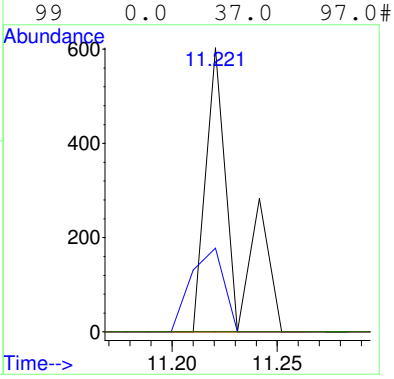


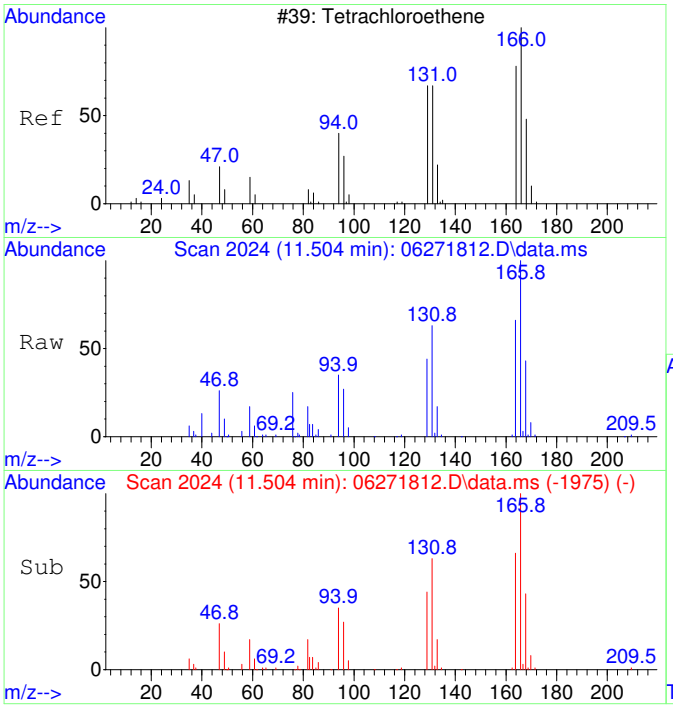


#38
1,1,2-Trichloroethane SCAN
Concen: 185.64 ug/L
RT: 11.221 min Scan# 1997
Delta R.T. -0.084 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 97 Resp: 558

Ion	Ratio	Lower	Upper
97	100		
83	34.9	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

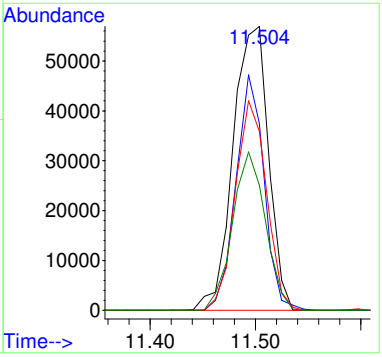


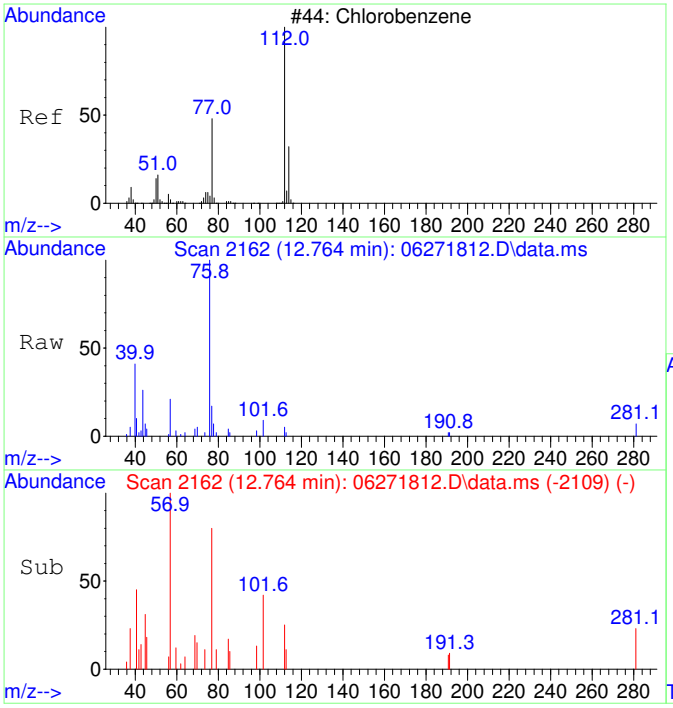


#39
Tetrachloroethene SCAN
Concen: 38782.84 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.010 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:166 Resp: 133499

Ion	Ratio	Lower	Upper
166	100		
164	65.7	43.3	103.3
131	64.9	35.6	95.6
129	51.7	36.6	96.6

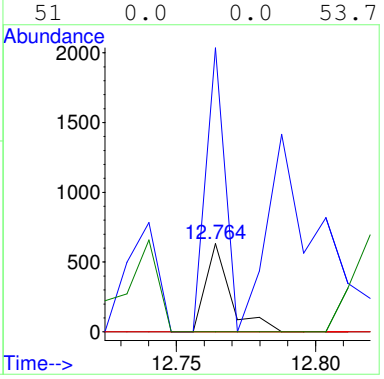


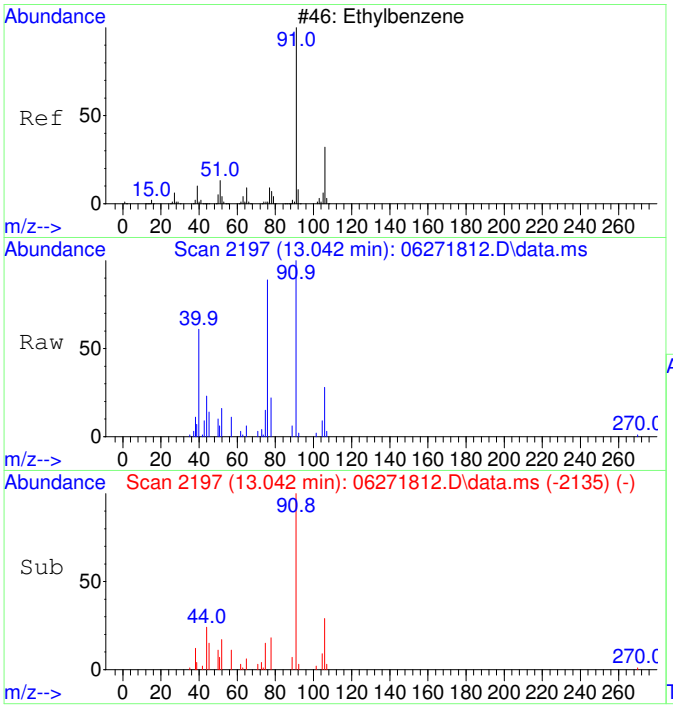


#40
Chlorobenzene SCAN
Concen: 41.19 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.079 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:112 Resp: 392

Ion	Ratio	Lower	Upper
112	100		
77	220.9	28.4	88.4#
114	0.0	0.0	59.5
51	0.0	0.0	53.7

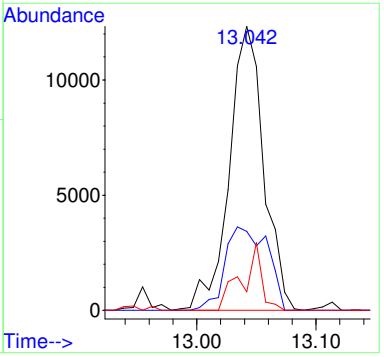


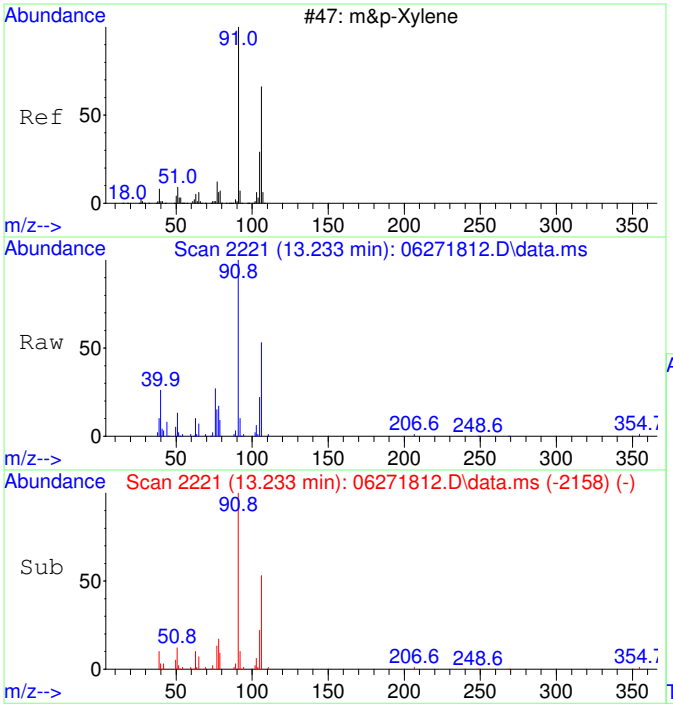


#42
Ethylbenzene SCAN
Concen: 1366.47 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 24916

Ion	Ratio	Lower	Upper
91	100		
106	36.0	3.2	63.2
51	13.5	0.0	40.1

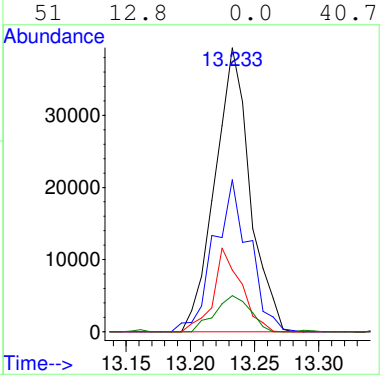


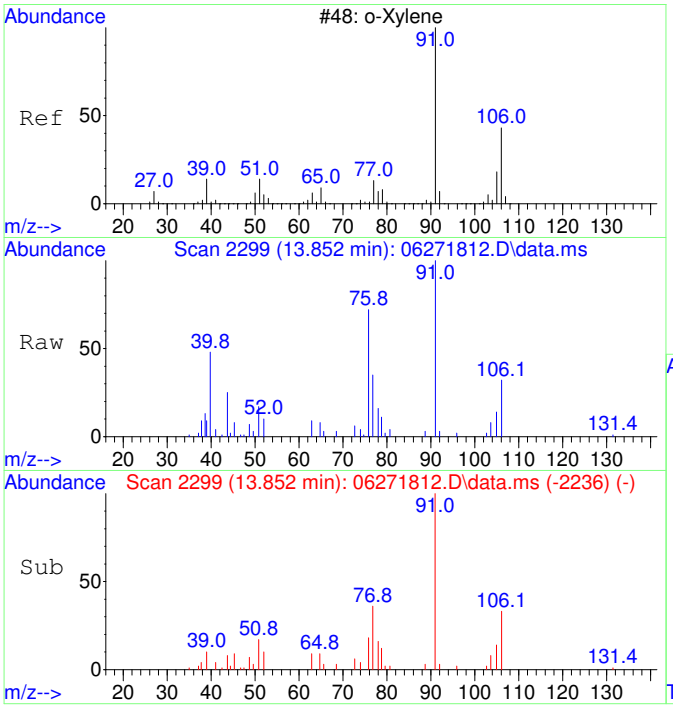


#43
m&p-Xylene SCAN
Concen: 2949.95 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 74662

Ion	Ratio	Lower	Upper
91	100		
106	53.7	20.1	80.1
105	23.4	0.0	51.1
51	12.8	0.0	40.7

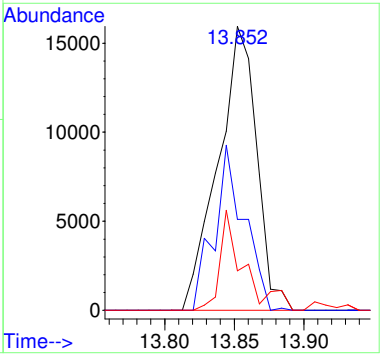


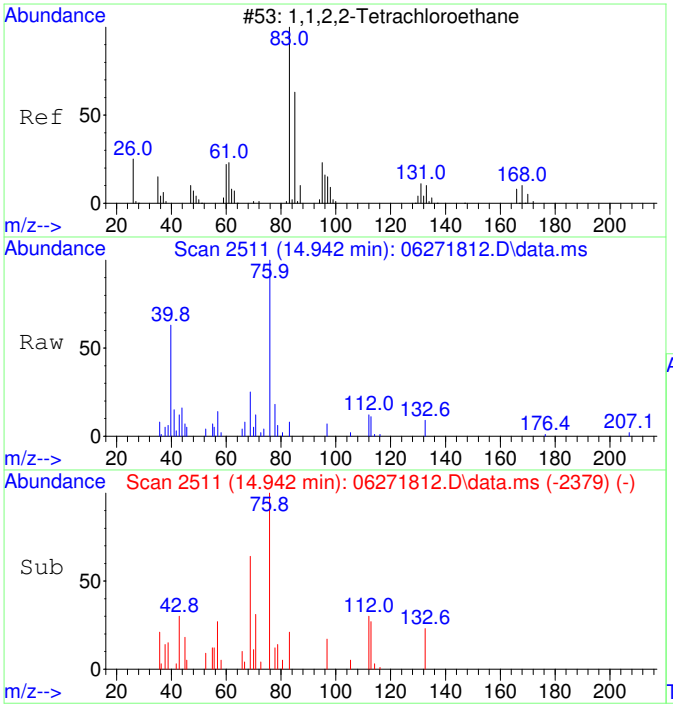


#44
o-Xylene SCAN
Concen: 2143.45 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 30877

Ion	Ratio	Lower	Upper
91	100		
106	45.2	21.3	81.3
105	21.6	0.0	55.2

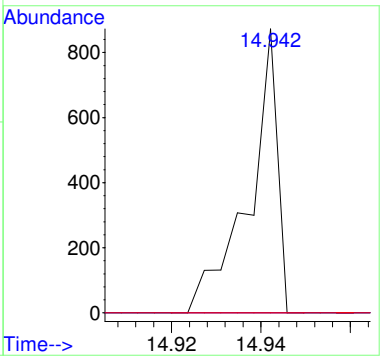


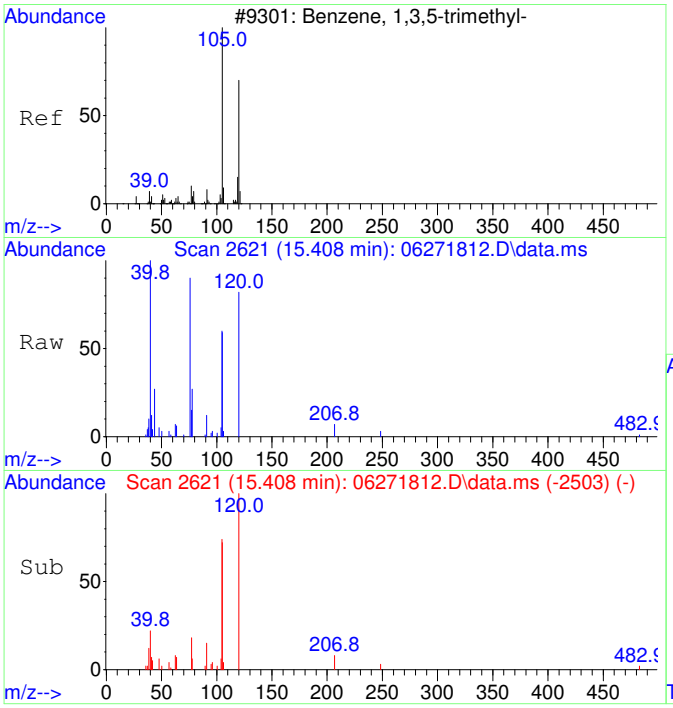


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 56.83 ug/L
RT: 14.942 min Scan# 2511
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 83 Resp: 388

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

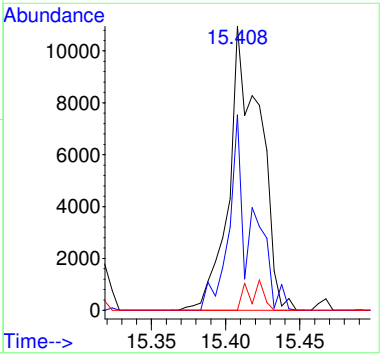


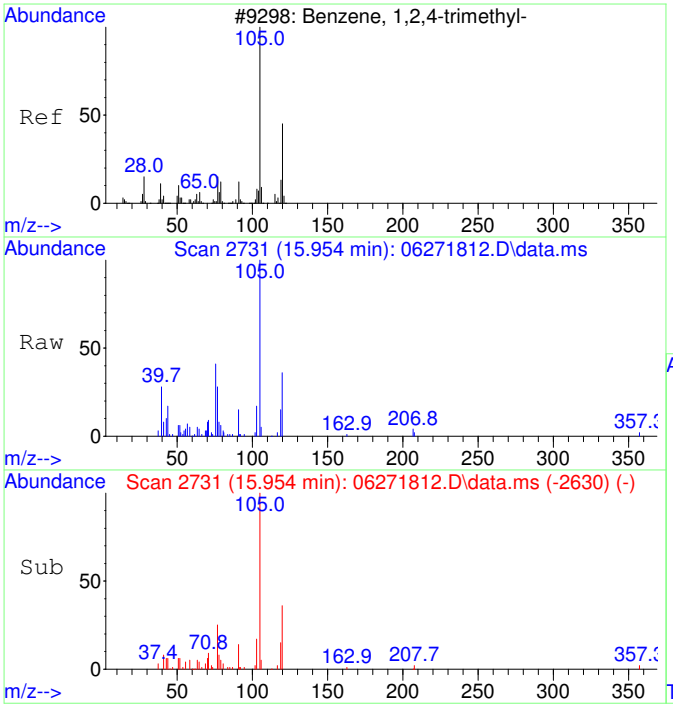


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1117.20 ug/L
RT: 15.408 min Scan# 2621
Delta R.T. -0.005 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:105 Resp: 15957

Ion	Ratio	Lower	Upper
105	100		
120	49.2	16.8	76.8
119	5.2	0.0	41.5

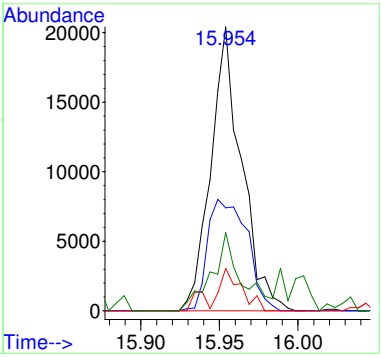




#47
1,2,4-Trimethylbenzene SCAN
Concen: 1898.58 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:105 Resp: 27791

Ion	Ratio	Lower	Upper
105	100		
120	50.3	15.4	75.4
119	9.9	0.0	41.7
77	21.1	0.0	42.0



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271812.D
Acq On : 27 Jun 2018 13:52
InstName : AG5975C
Operator : TD
Sample : 1806075-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

M.I. Performed By:
TD at 11:04 am, Jun 28, 2018

M.I. Approved By:
ZR at 11:20 am, Jul 02, 2018

Quant Time: Jun 27 14:11:27 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

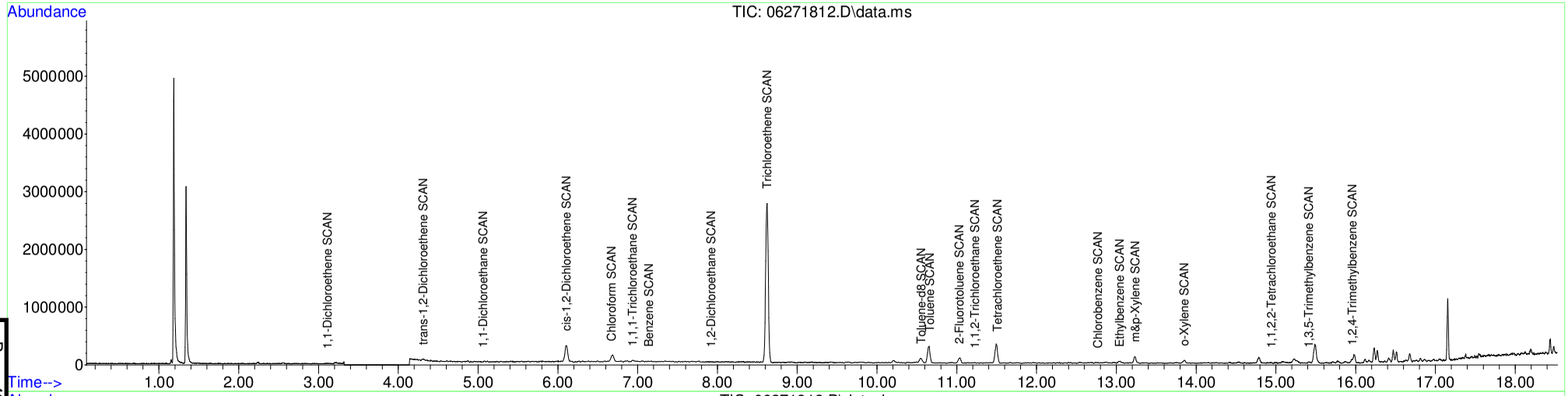
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	116576	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	99040	5230.40 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.61%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	7930m	1623.20 ug/L	
3] trans-1,2-Dichloroethene	4.303	61	17793	3413.35 ug/L	100
4] 1,1-Dichloroethane	5.072	63	8279	1276.03 ug/L	98
5] cis-1,2-Dichloroethene	6.101	61	294172	45960.45 ug/L	100
6] Chloroform	6.676	83	145915	21172.12 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	13658	2013.40 ug/L	99
8] Carbon tetrachloride	7.211	117	1005	156.40 ug/L	92
9] Benzene	7.552	78	5204	278.03 ug/L	87
10] 1,2-Dichloroethane	7.588	62	227	37.63 ug/L	55
11] Trichloroethene	8.618	130	1789762	347910.30 ug/L	99
13] Toluene	10.645	91	395057	15560.53 ug/L	100
15] Tetrachloroethene	11.495	166	202980	28376.71 ug/L	100
18] Ethylbenzene	13.035	91	33348	1094.55 ug/L	99
19] m&p-Xylene	13.226	91	115892	4928.42 ug/L	100
20] o-Xylene	13.846	91	46697	1875.05 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.932	83	728	67.88 ug/L	62
22] 1,3,5-Trimethylbenzene	15.414	105	22149	786.02 ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	42314	1501.20 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	70301	5175.20 ug/L	93
26) 1,1-Dichloroethene SCAN	3.107	61	2307	680.59 ug/L #	30
27) trans-1,2-Dichloroethe...	4.308	61	14963	3791.65 ug/L	76
28) 1,1-Dichloroethane SCAN	5.065	63	2395	477.06 ug/L	94
29) cis-1,2-Dichloroethene...	6.106	61	210390	48456.16 ug/L	91
30) Chloroform SCAN	6.675	83	100016	18766.95 ug/L	92
31) 1,1,1-Trichloroethane ...	6.930	97	13540	2854.06 ug/L	86
33) Benzene SCAN	7.137	78	6194	437.82 ug/L	84
34) 1,2-Dichloroethane SCAN	7.920	62	278	57.62 ug/L #	1
35) Trichloroethene SCAN	8.623	130	1084719	313326.07 ug/L	97
36) Toluene-d8 SCAN	10.549	98	67077	5462.26 ug/L	93
37) Toluene SCAN	10.654	91	254339	16213.83 ug/L	94
38) 1,1,2-Trichloroethane ...	11.221	97	558	185.64 ug/L #	24
39) Tetrachloroethene SCAN	11.504	166	133499	38782.84 ug/L	90
40) Chlorobenzene SCAN	12.764	112	392	41.19 ug/L #	1
42) Ethylbenzene SCAN	13.042	91	24916	1366.47 ug/L	94
43) m&p-Xylene SCAN	13.233	91	74662	2949.95 ug/L	95
44) o-Xylene SCAN	13.852	91	30877	2143.45 ug/L	92
45) 1,1,2,2-Tetrachloroeth...	14.942	83	388	56.83 ug/L #	29
46) 1,3,5-Trimethylbenzene...	15.408	105	15957	1117.20 ug/L	94
47) 1,2,4-Trimethylbenzene...	15.954	105	27791	1898.58 ug/L	90

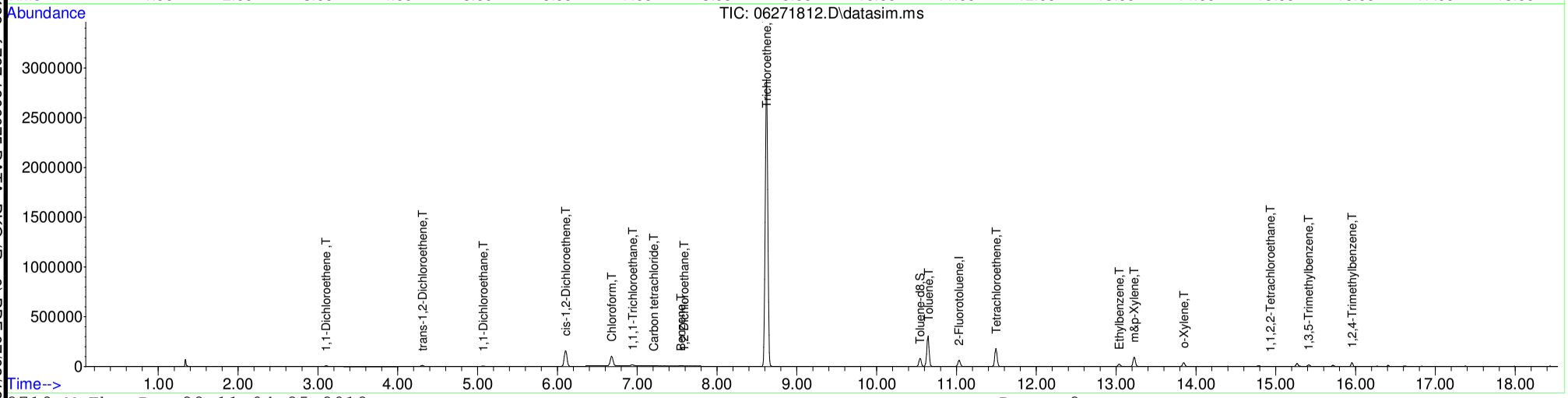
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271812.D
Acq On : 27 Jun 2018 13:52
InstName : AG5975C
Operator : TD
Sample : 1806075-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 14:11:27 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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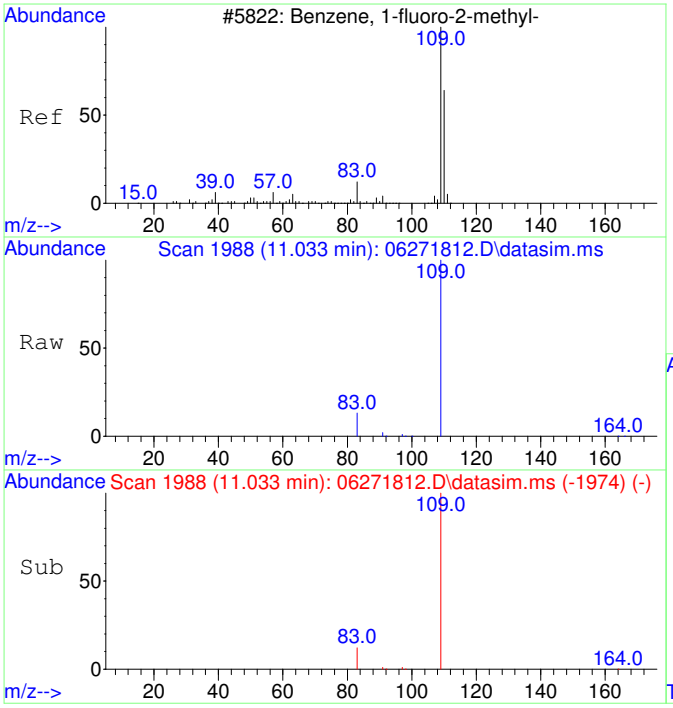
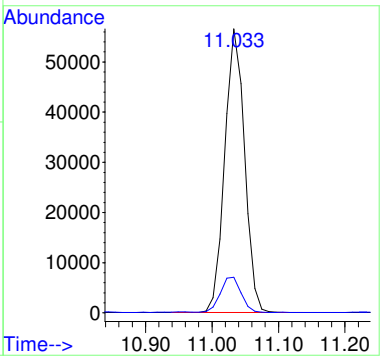
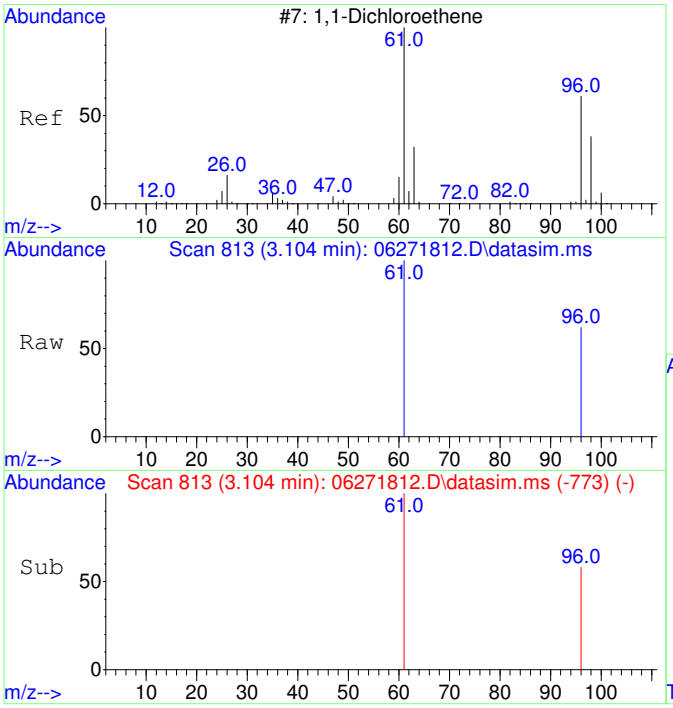


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:109 Resp: 116576

Ion	Ratio	Lower	Upper
109	100		
83	12.8	0.0	44.7

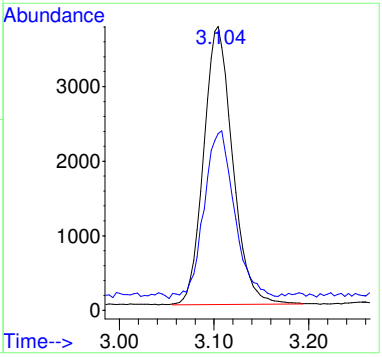


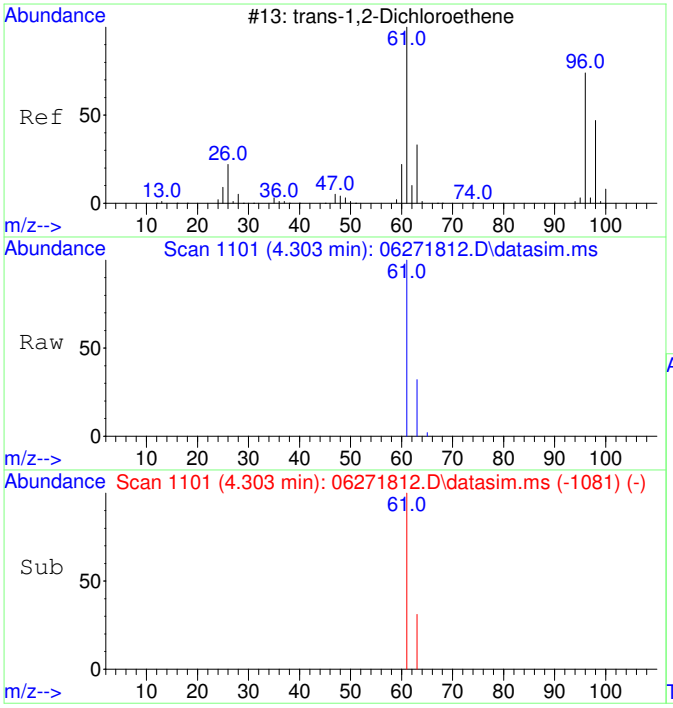


#2
1,1-Dichloroethene
Concen: 1623.20 ug/L m
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 7930

Ion	Ratio	Lower	Upper
61	100		
96	68.2	28.7	88.7

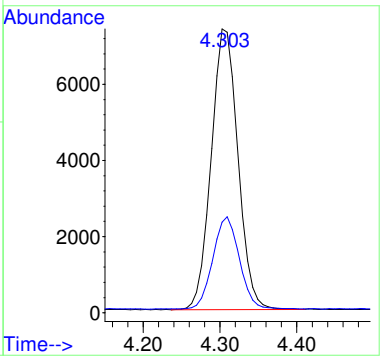


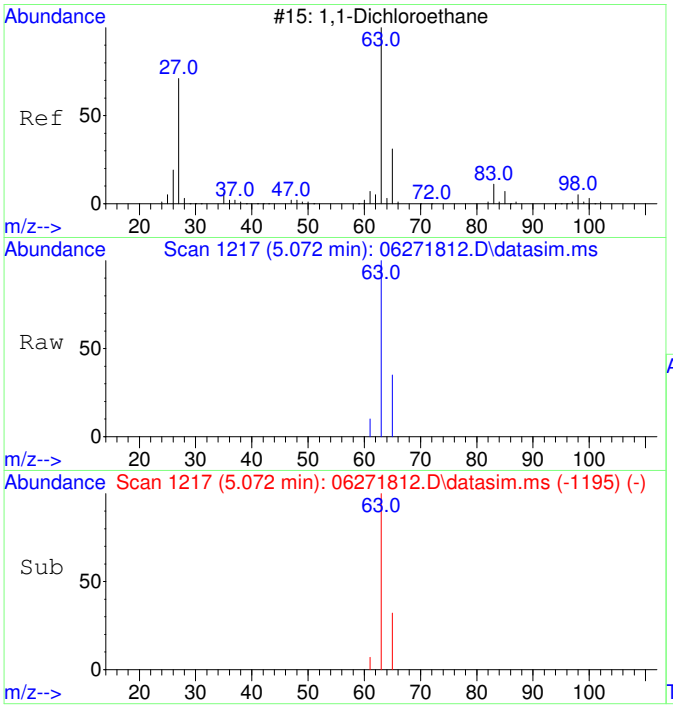


#3
trans-1,2-Dichloroethene
Concen: 3413.35 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.020 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 17793

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.0	62.0

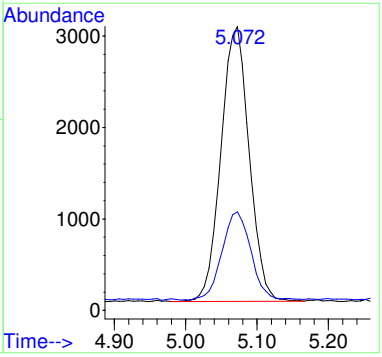


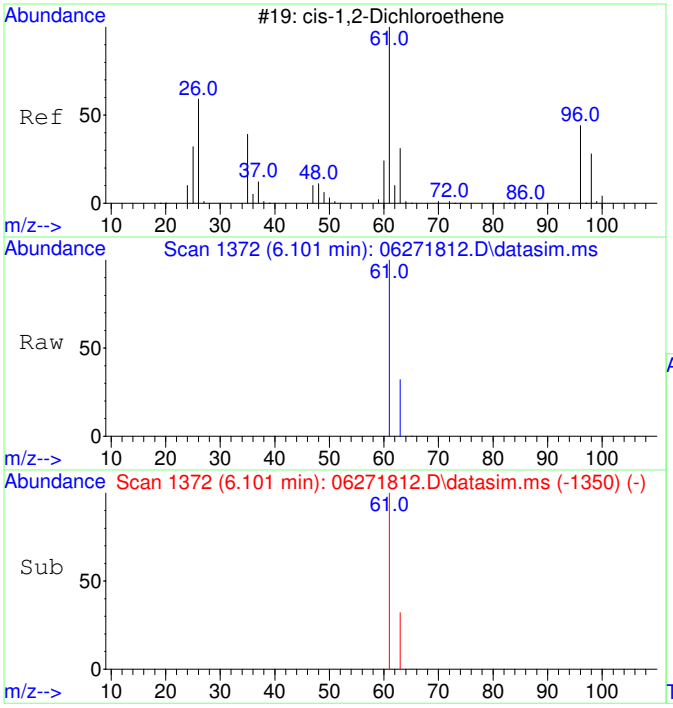


#4
1,1-Dichloroethane
Concen: 1276.03 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.007 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 63 Resp: 8279

Ion	Ratio	Lower	Upper
63	100		
65	32.7	1.5	61.5

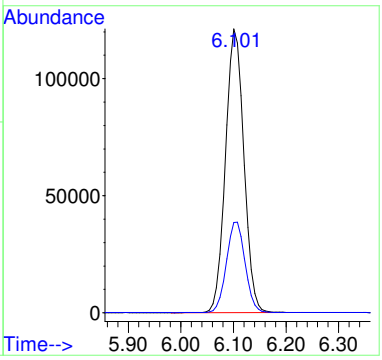


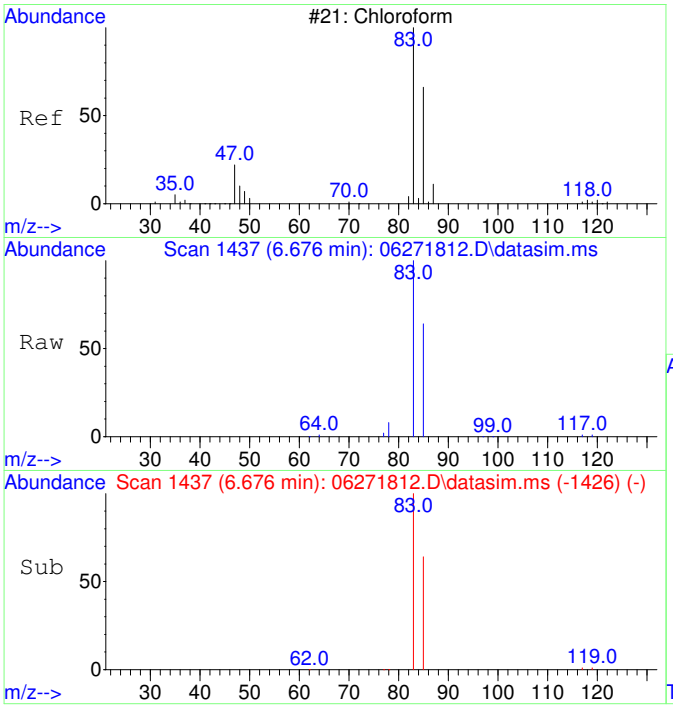


#5
cis-1,2-Dichloroethene
Concen: 45960.45 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 294172

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.2	62.2

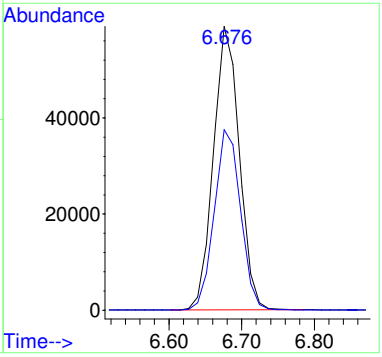


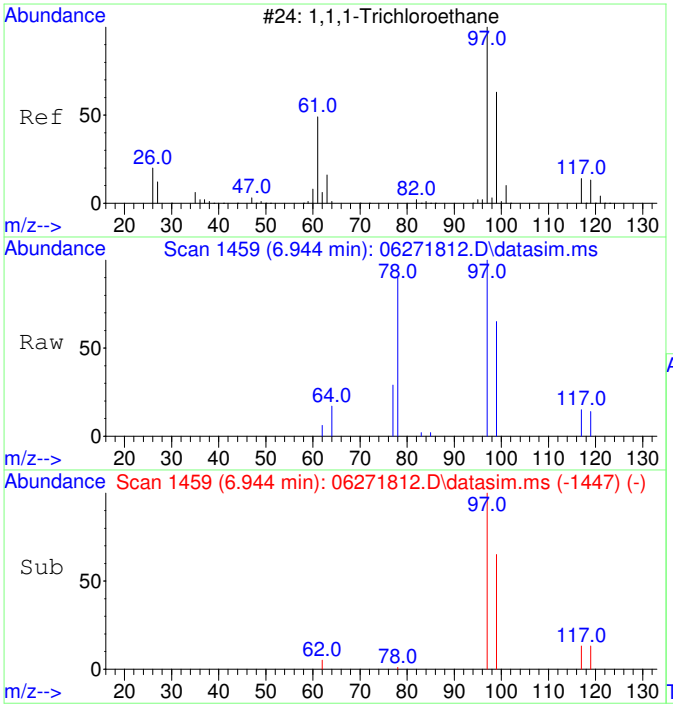


#6
Chloroform
Concen: 21172.12 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 83 Resp: 145915

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.8	94.8

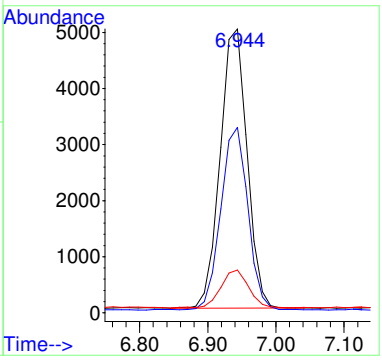


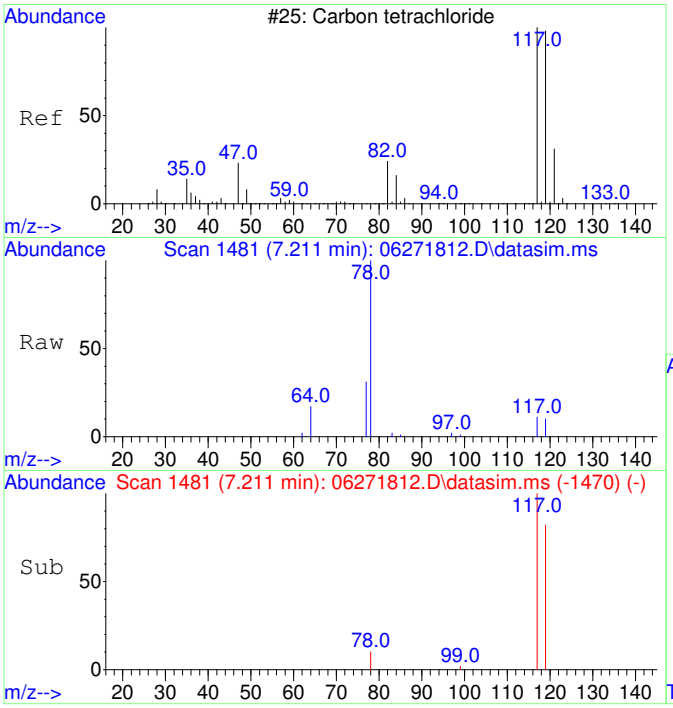


#7
1,1,1-Trichloroethane
Concen: 2013.40 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 97 Resp: 13658

Ion	Ratio	Lower	Upper
97	100		
99	65.5	34.6	94.6
117	13.8	0.0	42.9

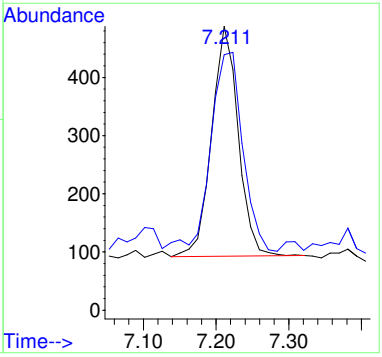


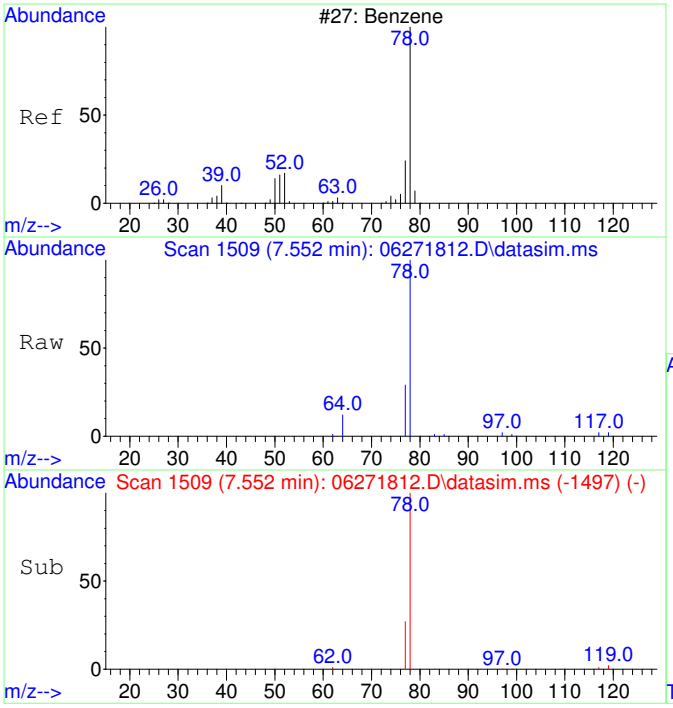


#8
Carbon tetrachloride
Concen: 156.40 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:117 Resp: 1005

Ion	Ratio	Lower	Upper
117	100		
119	103.4	65.9	125.9

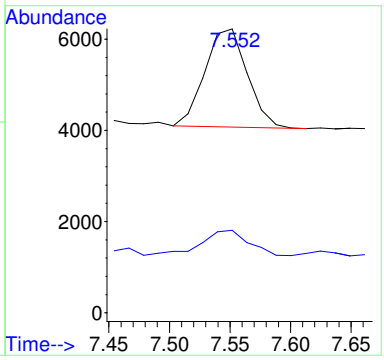


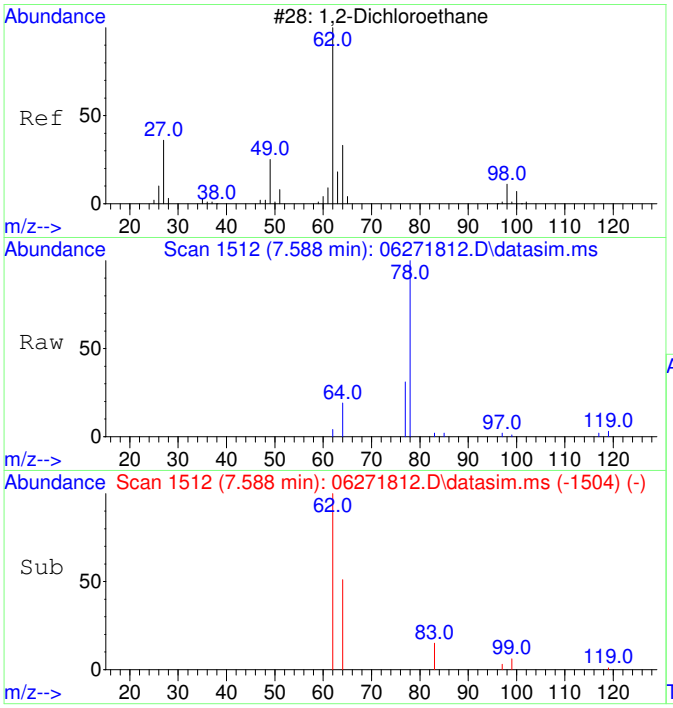


#9
Benzene
Concen: 278.03 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 78 Resp: 5204

Ion	Ratio	Lower	Upper
78	100		
77	29.1	0.0	53.0

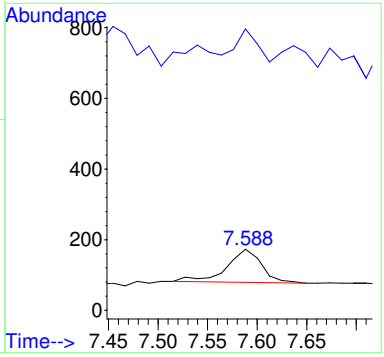


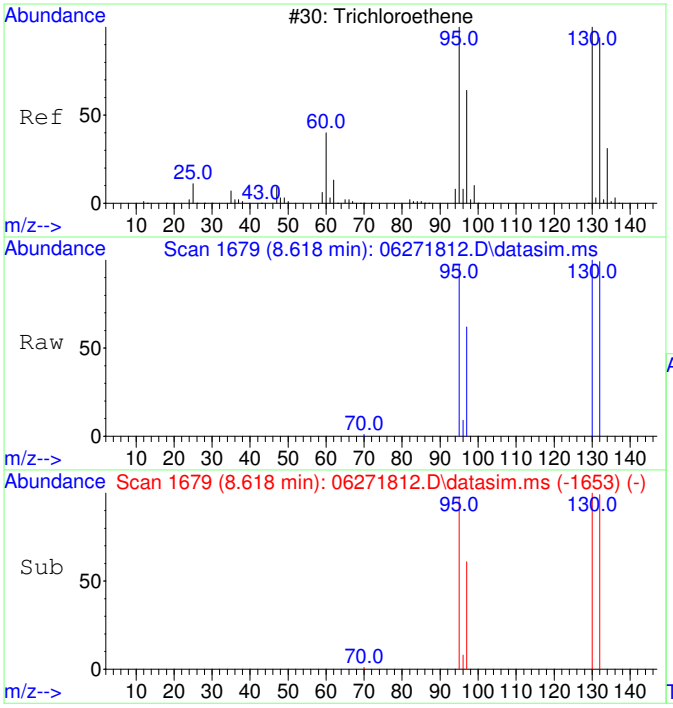


#10
1,2-Dichloroethane
Concen: 37.63 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 62 Resp: 227

Ion	Ratio	Lower	Upper
62	100		
64	57.7	2.3	62.3

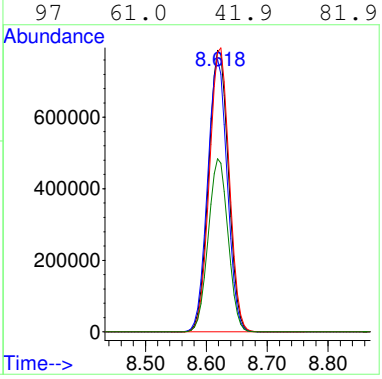


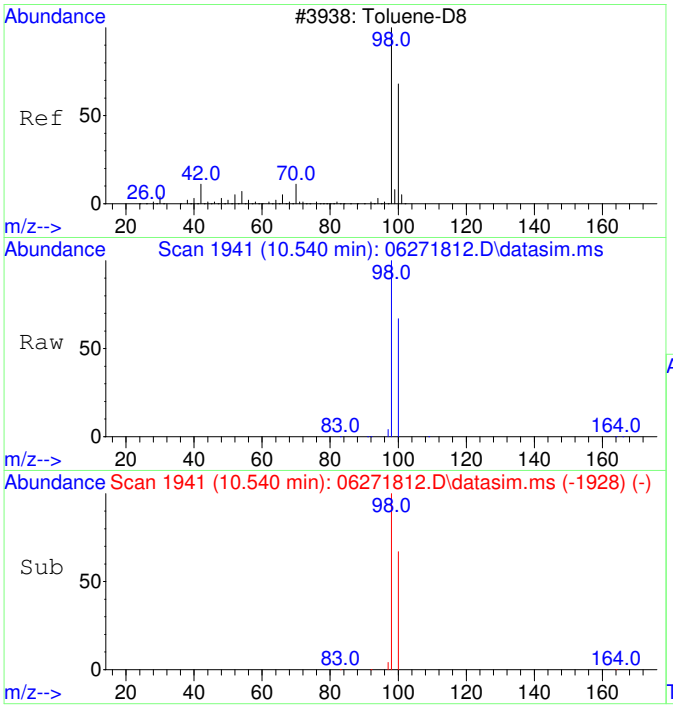


#11
Trichloroethene
Concen: 347910.30 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:130 Resp: 1789762

Ion	Ratio	Lower	Upper
130	100		
95	95.5	66.0	126.0
132	100.0	78.8	118.8
97	61.0	41.9	81.9

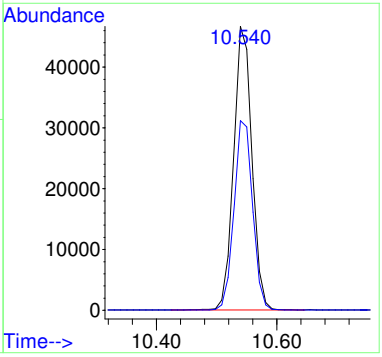


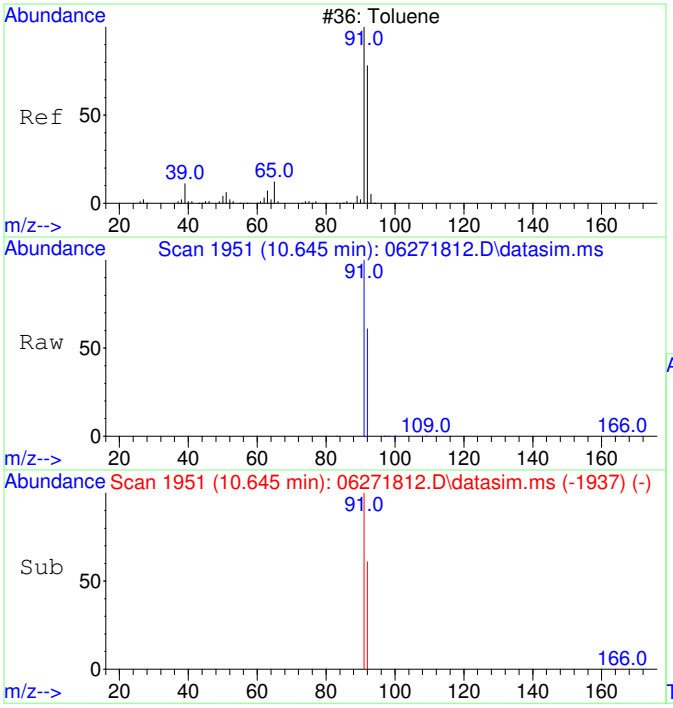


#12
Toluene-d8
Concen: 5230.40 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 98 Resp: 99040

Ion	Ratio	Lower	Upper
98	100		
100	67.8	38.7	98.7

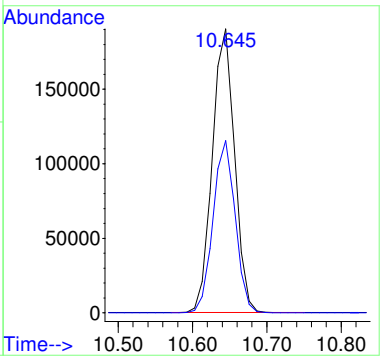


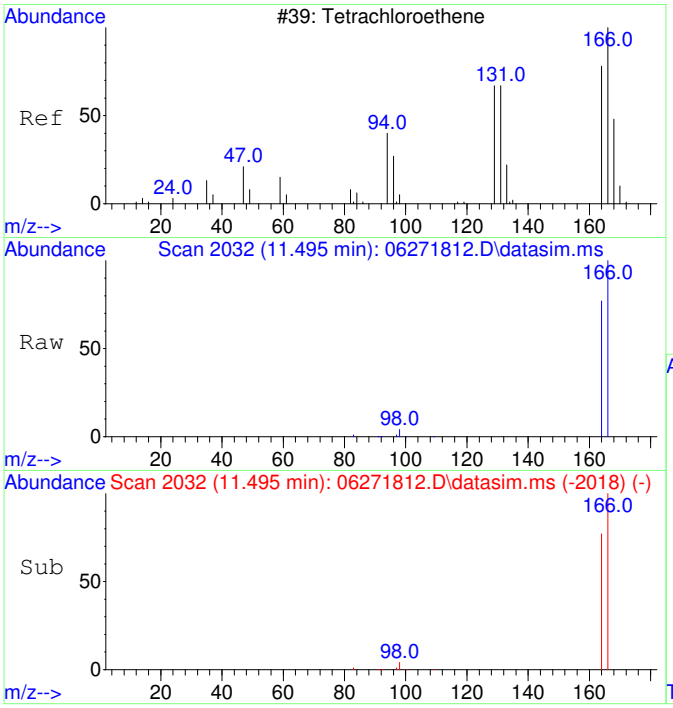


#13
Toluene
Concen: 15560.53 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 395057

Ion	Ratio	Lower	Upper
91	100		
92	60.0	30.0	90.0

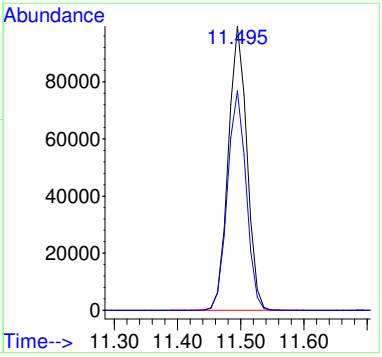


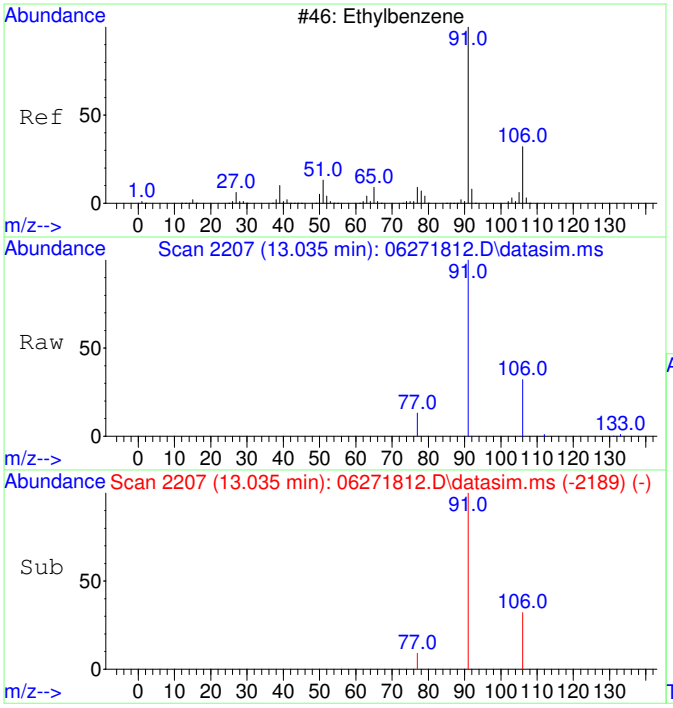


#15
Tetrachloroethene
Concen: 28376.71 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:166 Resp: 202980

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

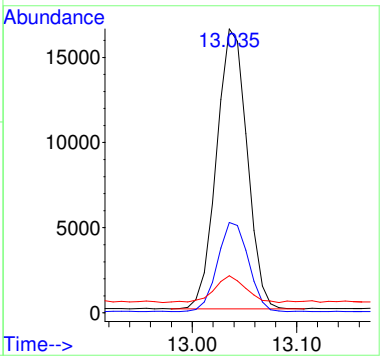


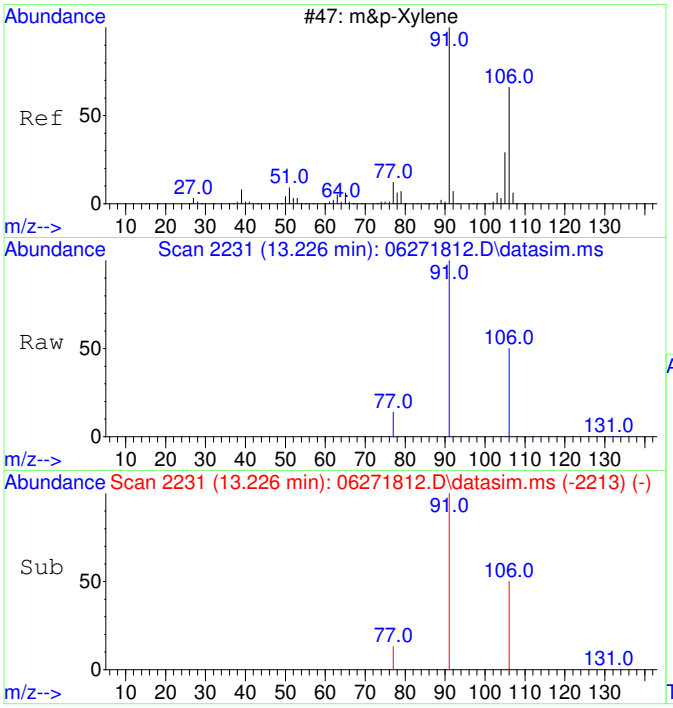


#18
Ethylbenzene
Concen: 1094.55 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 33348

Ion	Ratio	Lower	Upper
91	100		
106	32.3	2.8	62.8
77	9.6	0.0	38.6

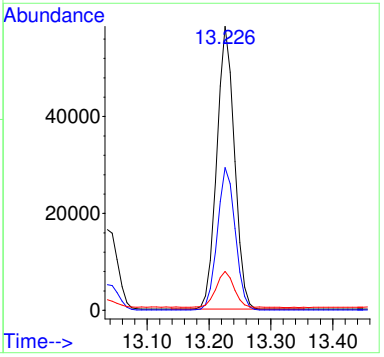


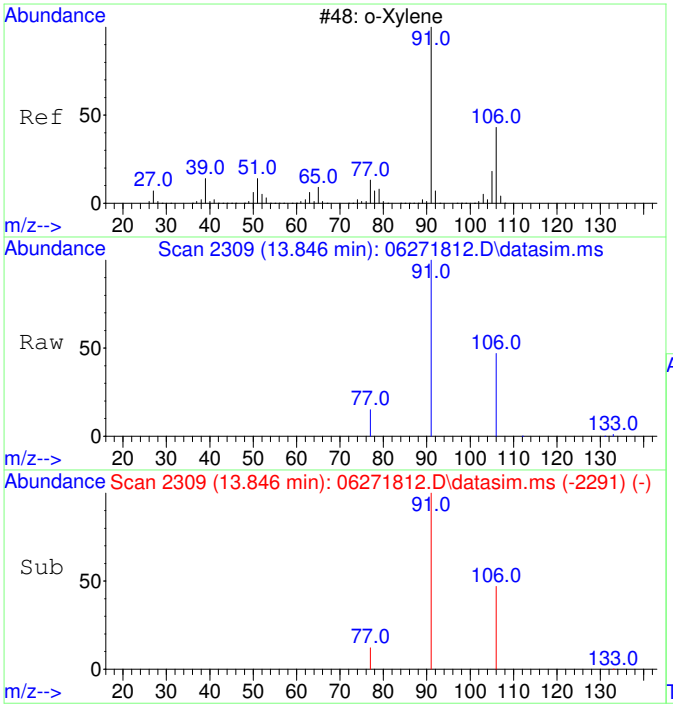


#19
m&p-Xylene
Concen: 4928.42 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 115892

Ion	Ratio	Lower	Upper
91	100		
106	51.0	21.2	81.2
77	12.8	0.0	42.9

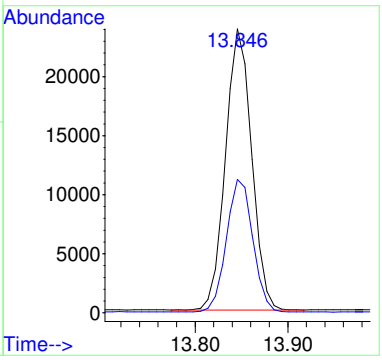


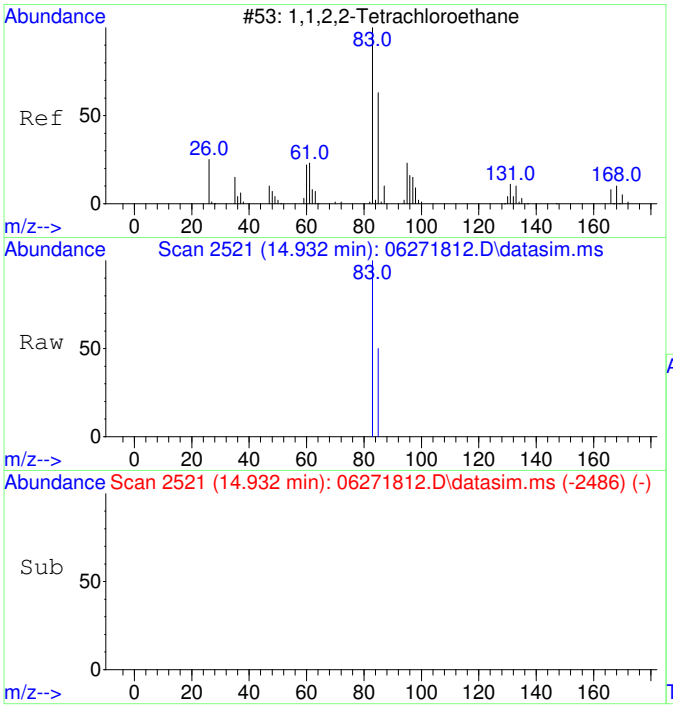


#20
o-Xylene
Concen: 1875.05 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 46697

Ion	Ratio	Lower	Upper
91	100		
106	47.5	18.3	78.3

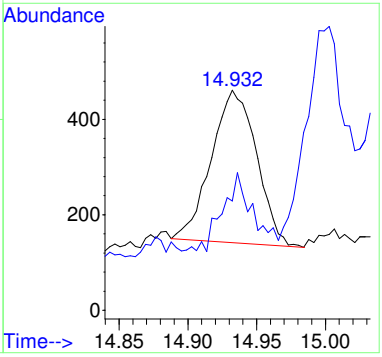


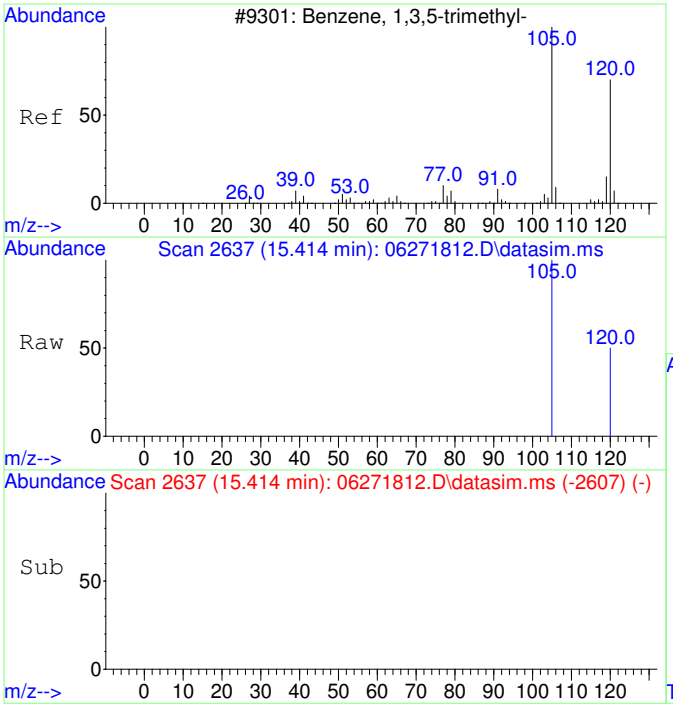


#21
1,1,2,2-Tetrachloroethane
Concen: 67.88 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.019 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 83 Resp: 728

Ion	Ratio	Lower	Upper
83	100		
85	34.6	34.4	94.4

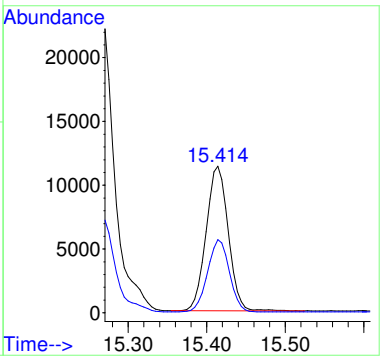


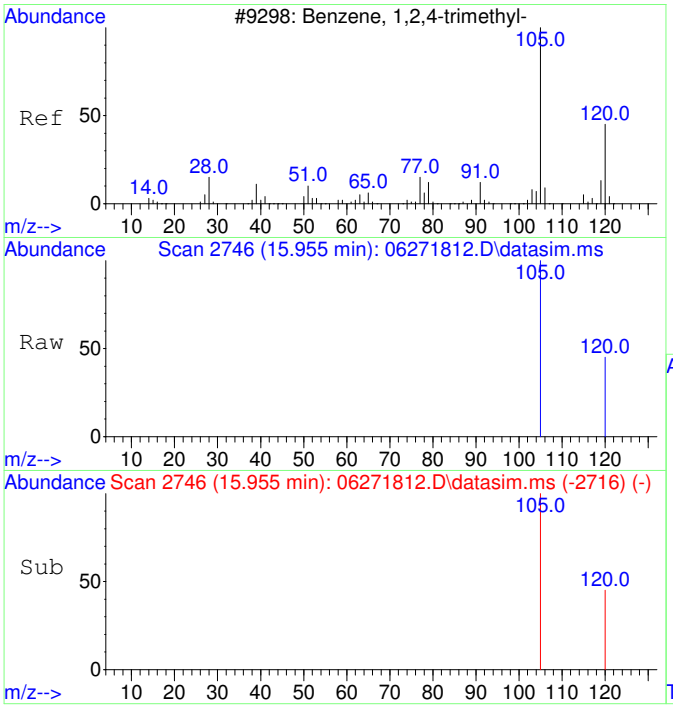


#22
1,3,5-Trimethylbenzene
Concen: 786.02 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:105 Resp: 22149

Ion	Ratio	Lower	Upper
105	100		
120	49.0	19.1	79.1

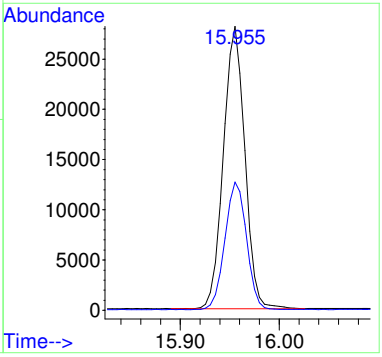


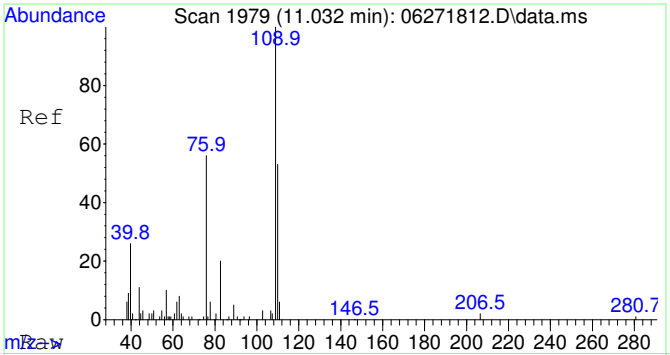


#23
1,2,4-Trimethylbenzene
Concen: 1501.20 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:105 Resp: 42314

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

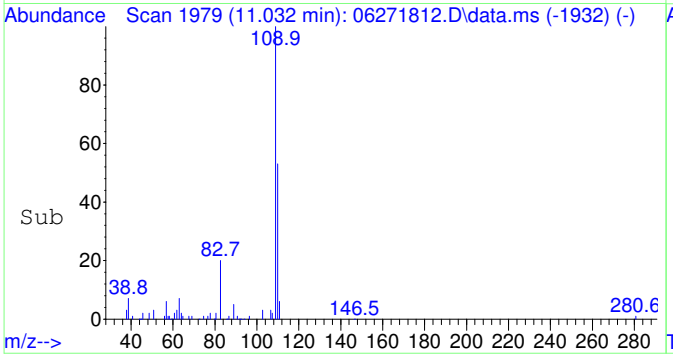


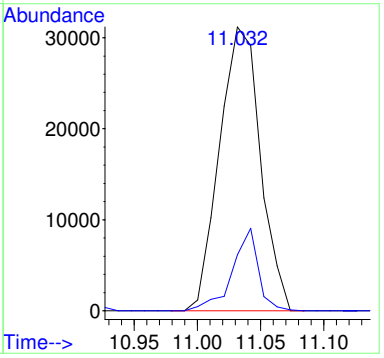


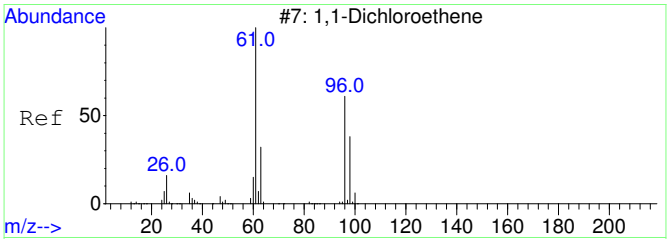
#25
2-Fluorotoluene SCAN
Concen: 5175.20 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:109 Resp: 70301

Ion	Ratio	Lower	Upper
109	100		
83	18.5	0.0	45.7



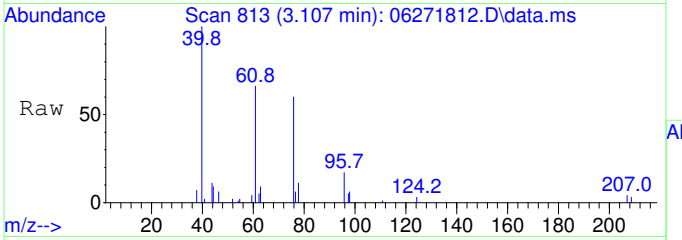


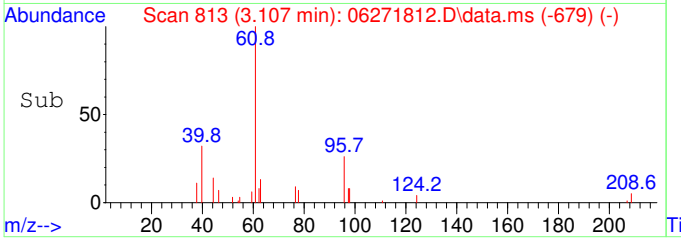


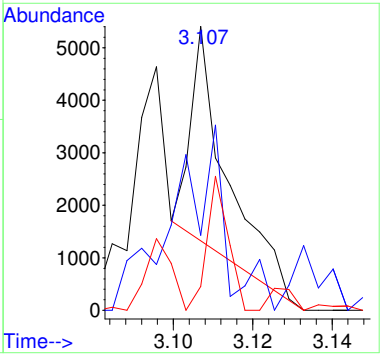
#26
1,1-Dichloroethene SCAN
Concen: 680.59 ug/L
RT: 3.107 min Scan# 813
Delta R.T. -0.004 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

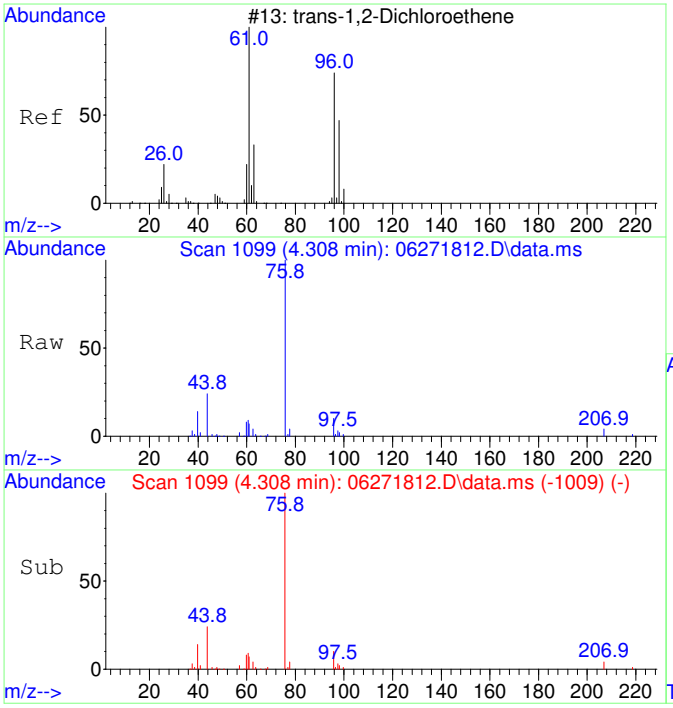
Tgt Ion: 61 Resp: 2307

Ion	Ratio	Lower	Upper
61	100		
96	137.7	23.8	83.8#
98	41.0	8.8	68.8





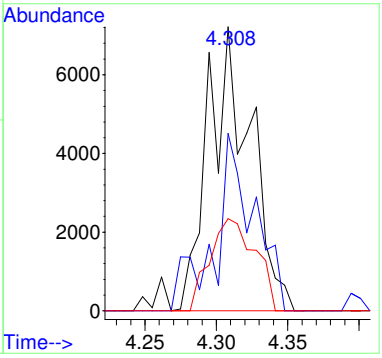


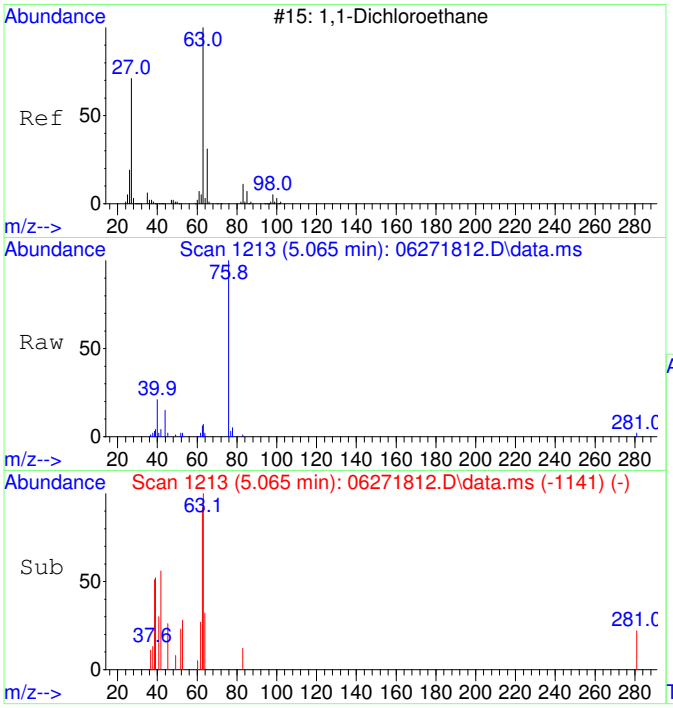


#27
trans-1,2-Dichloroethene SCAN
Concen: 3791.65 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. -0.027 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 14963

Ion	Ratio	Lower	Upper
61	100		
96	42.6	37.9	97.9
98	34.7	12.7	72.7

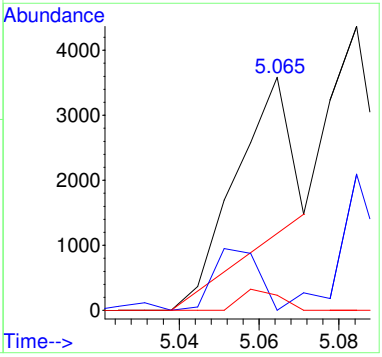


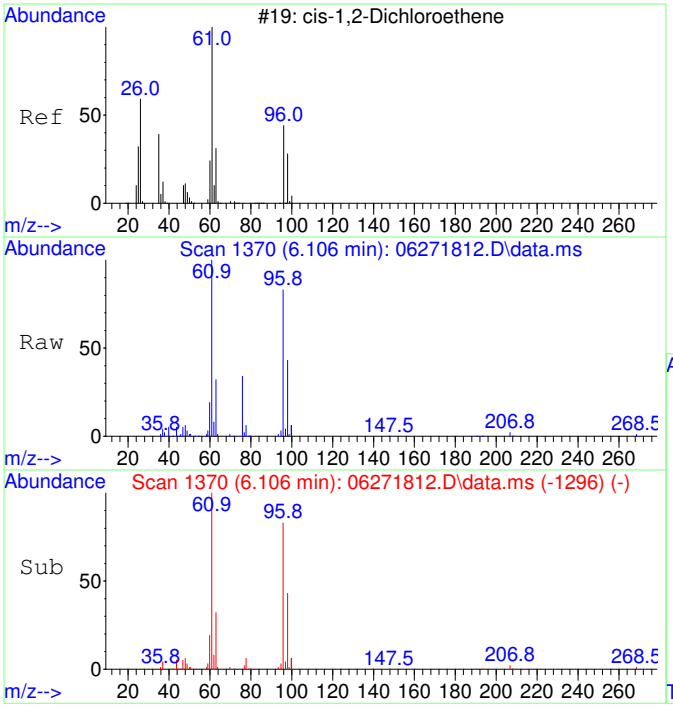


#28
1,1-Dichloroethane SCAN
Concen: 477.06 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. -0.020 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 63 Resp: 2395

Ion	Ratio	Lower	Upper
63	100		
65	34.2	7.5	67.5
83	9.2	0.0	34.3

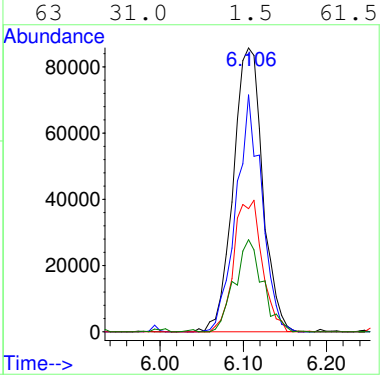


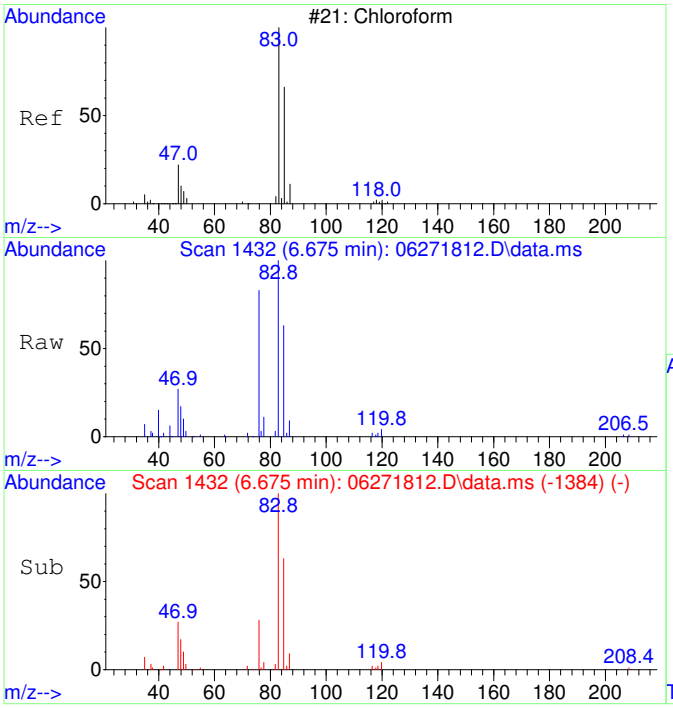


#29
cis-1,2-Dichloroethene SCAN
Concen: 48456.16 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 61 Resp: 210390

Ion	Ratio	Lower	Upper
61	100		
96	73.4	28.2	88.2
98	44.7	14.1	74.1
63	31.0	1.5	61.5

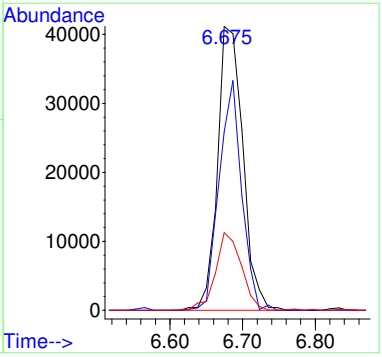


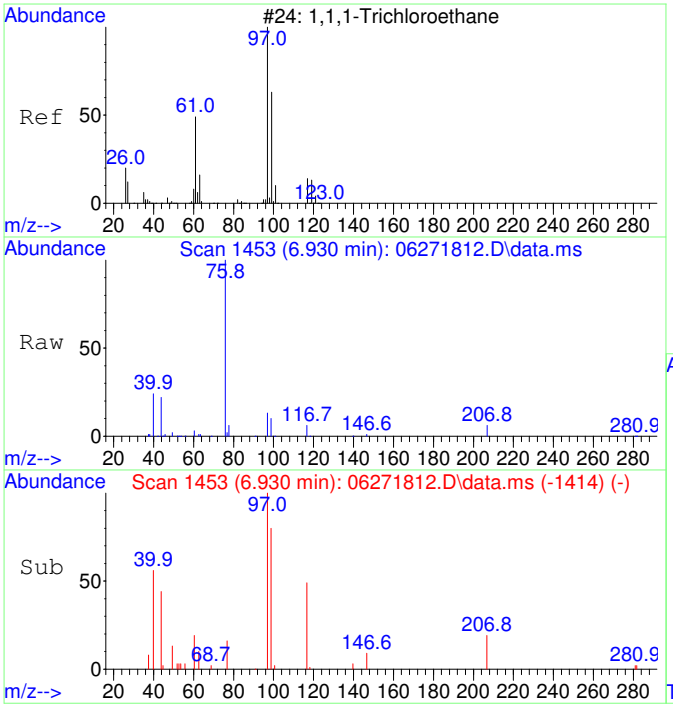


#30
Chloroform SCAN
Concen: 18766.95 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 83 Resp: 100016

Ion	Ratio	Lower	Upper
83	100		
85	71.8	32.6	92.6
47	27.9	0.0	57.9

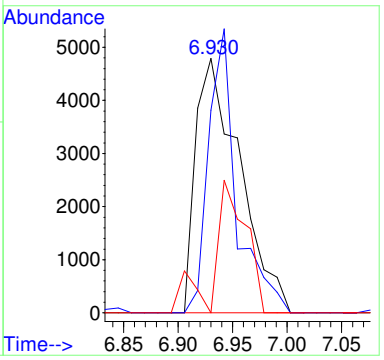


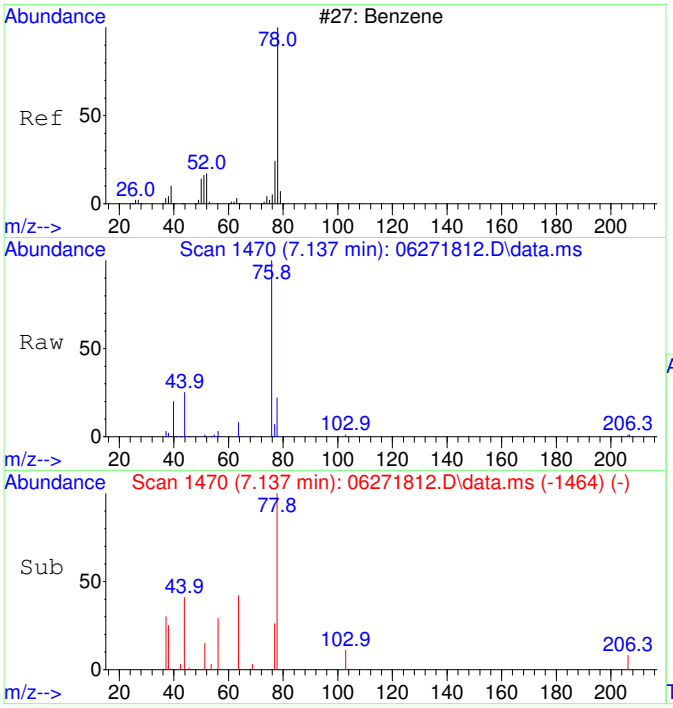


#31
1,1,1-Trichloroethane SCAN
Concen: 2854.06 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. -0.024 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 97 Resp: 13540

Ion	Ratio	Lower	Upper
97	100		
99	70.4	27.9	87.9
61	38.1	15.1	75.1

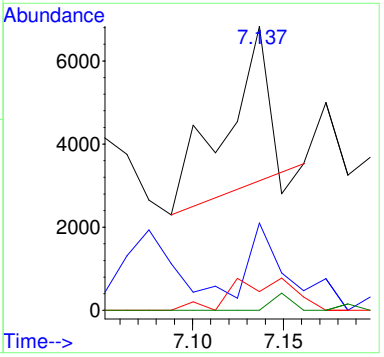


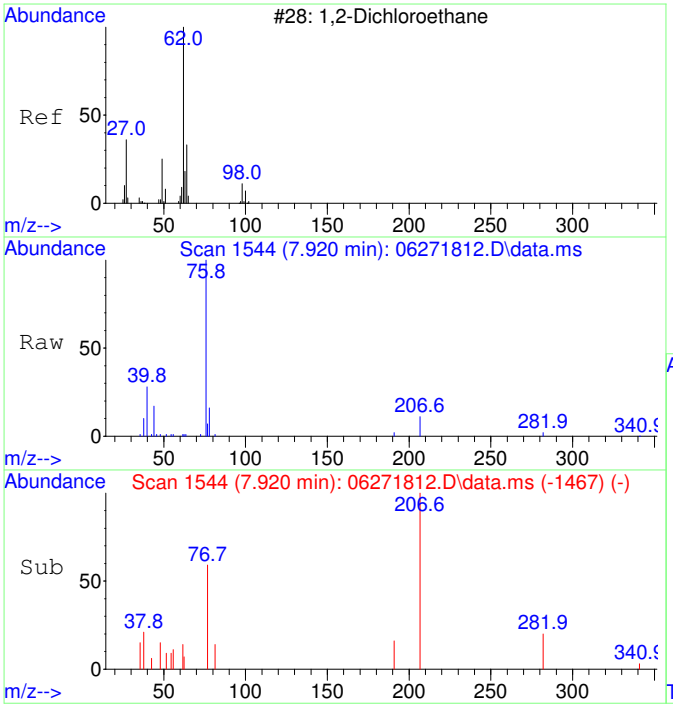


#33
Benzene SCAN
Concen: 437.82 ug/L
RT: 7.137 min Scan# 1470
Delta R.T. -0.426 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 78 Resp: 6194

Ion	Ratio	Lower	Upper
78	100		
77	42.3	3.0	63.0
51	29.6	0.0	56.4
52	4.9	0.0	48.0

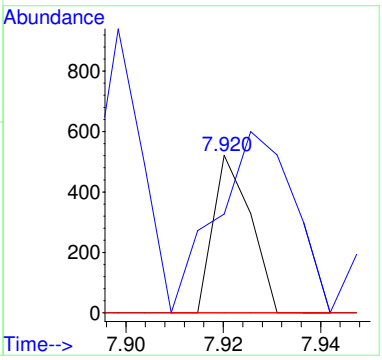


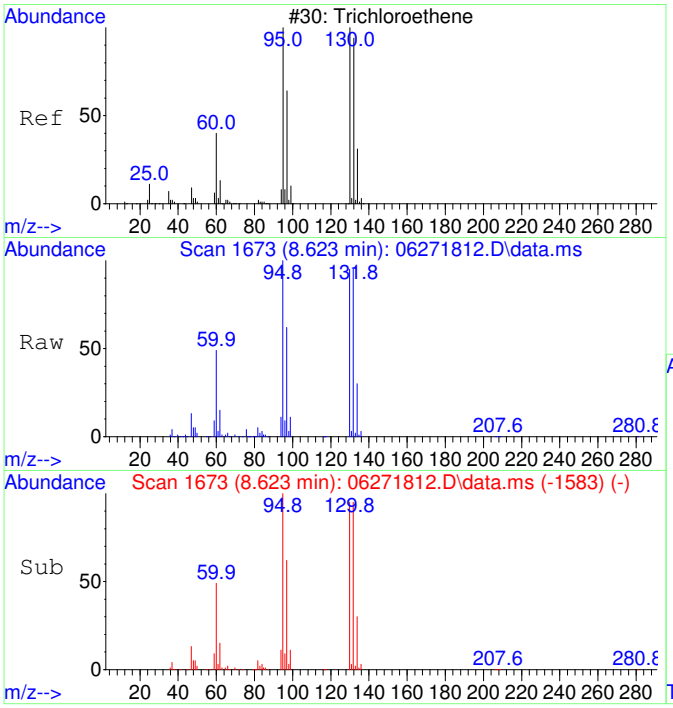


#34
1,2-Dichloroethane SCAN
Concen: 57.62 ug/L
RT: 7.920 min Scan# 1544
Delta R.T. 0.321 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 62 Resp: 278

Ion	Ratio	Lower	Upper
62	100		
64	237.4	1.2	61.2#
49	0.0	10.4	70.4#

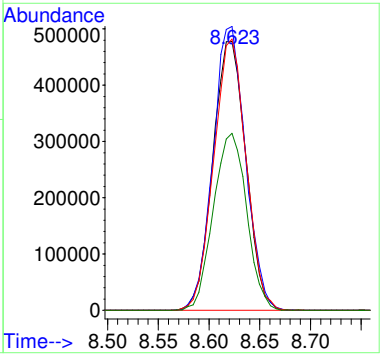


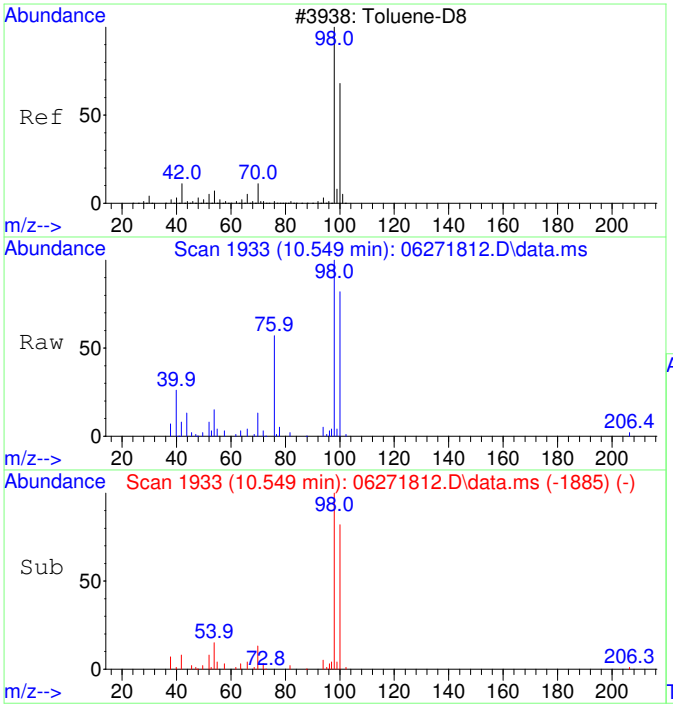


#35
Trichloroethene SCAN
Concen: 313326.07 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:130 Resp: 1084719

Ion	Ratio	Lower	Upper
130	100		
95	103.6	70.5	130.5
132	98.6	63.8	123.8
97	66.2	34.8	94.8

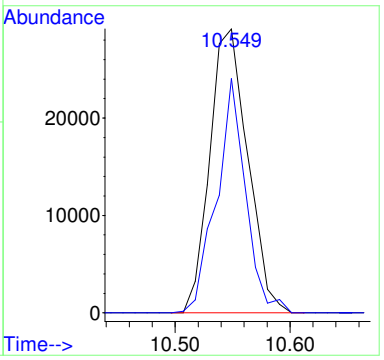


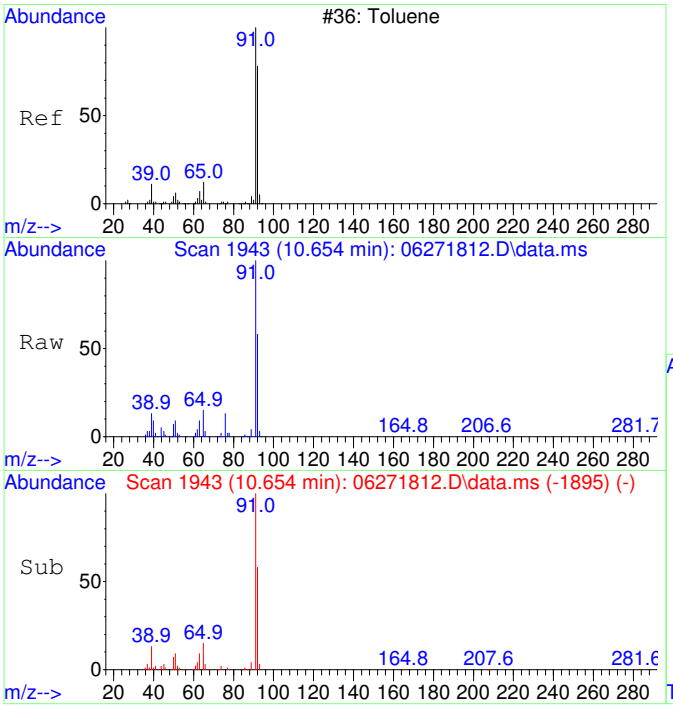


#36
Toluene-d8 SCAN
Concen: 5462.26 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 98 Resp: 67077

Ion	Ratio	Lower	Upper
98	100		
100	63.5	39.5	99.5

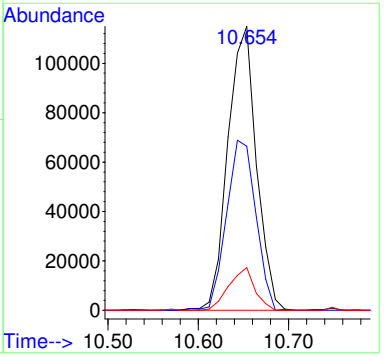


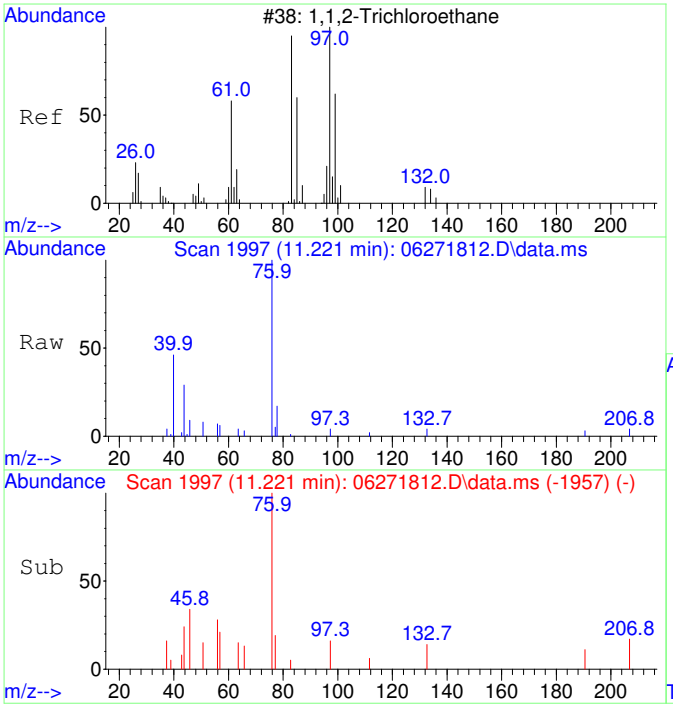


#37
Toluene SCAN
Concen: 16213.83 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 254339

Ion	Ratio	Lower	Upper
91	100		
92	61.3	26.6	86.6
65	13.6	0.0	42.3

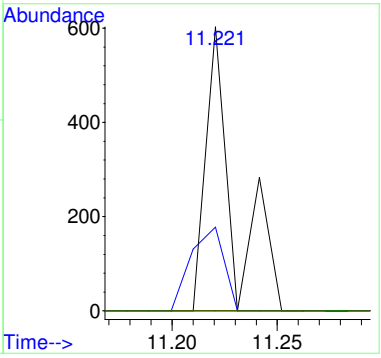


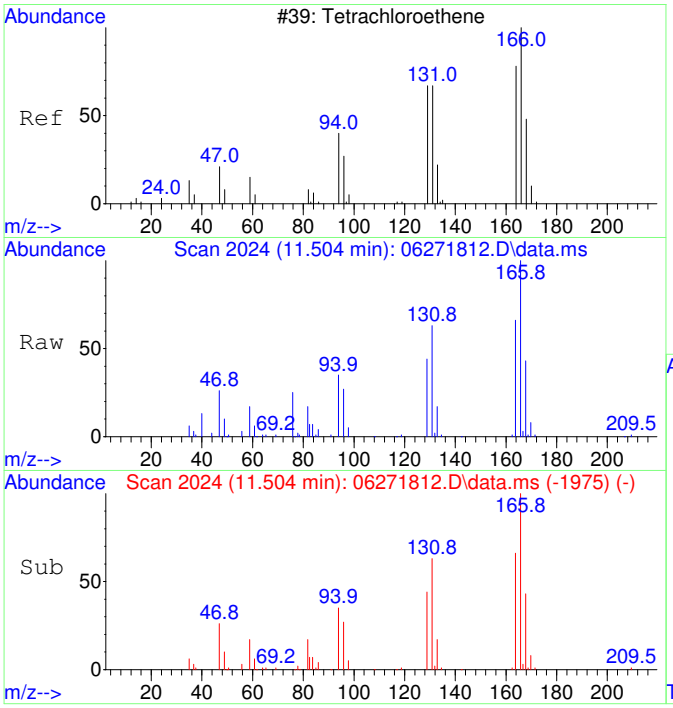


#38
1,1,2-Trichloroethane SCAN
Concen: 185.64 ug/L
RT: 11.221 min Scan# 1997
Delta R.T. -0.084 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 97 Resp: 558

Ion	Ratio	Lower	Upper
97	100		
83	34.9	63.6	123.6#
61	0.0	44.9	104.9#
99	0.0	37.0	97.0#

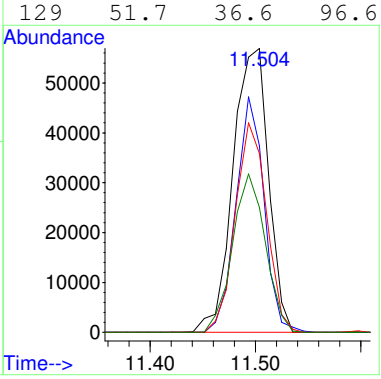


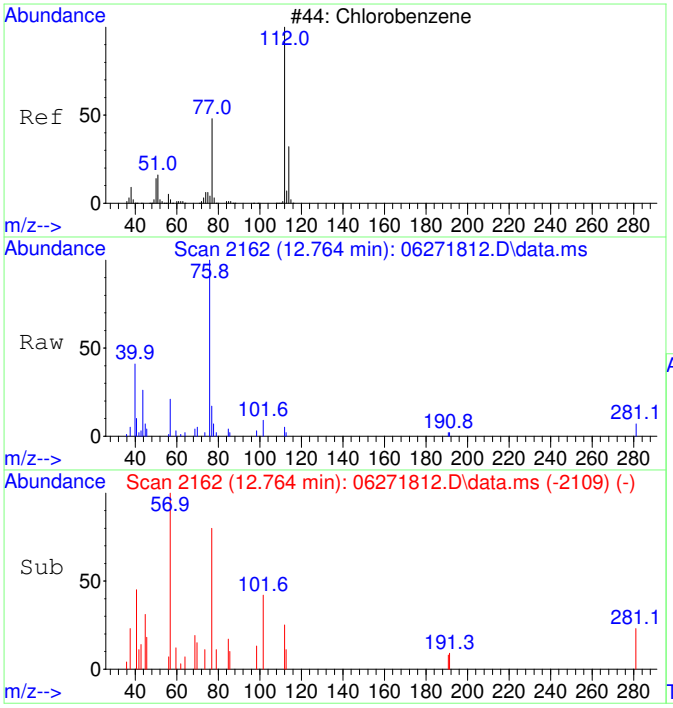


#39
Tetrachloroethene SCAN
Concen: 38782.84 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.010 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:166 Resp: 133499

Ion	Ratio	Lower	Upper
166	100		
164	65.7	43.3	103.3
131	64.9	35.6	95.6
129	51.7	36.6	96.6

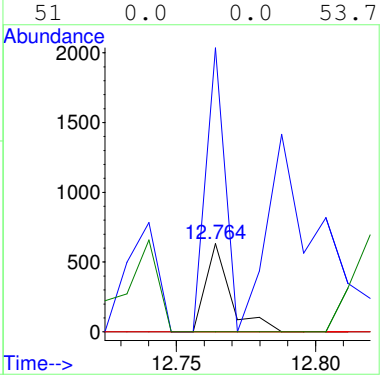


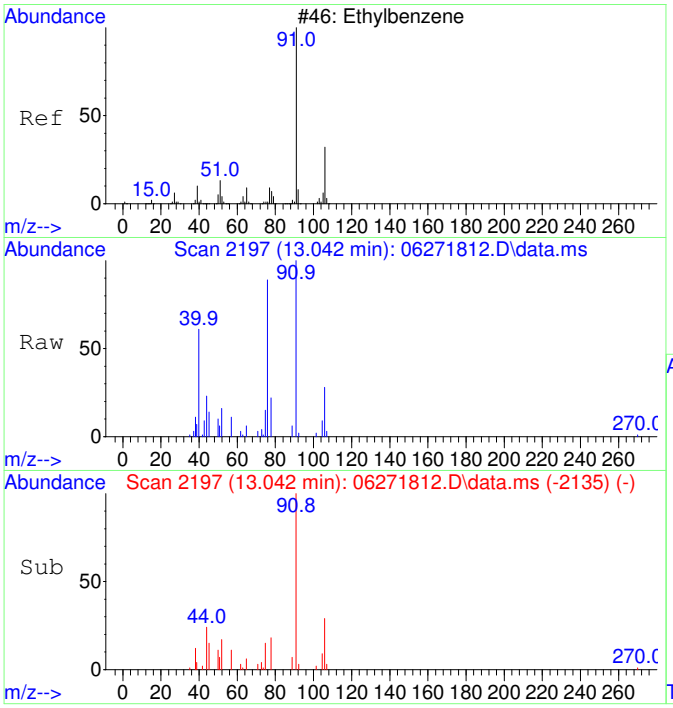


#40
Chlorobenzene SCAN
Concen: 41.19 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.079 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:112 Resp: 392

Ion	Ratio	Lower	Upper
112	100		
77	220.9	28.4	88.4#
114	0.0	0.0	59.5
51	0.0	0.0	53.7

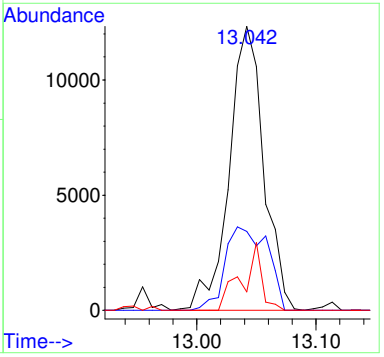


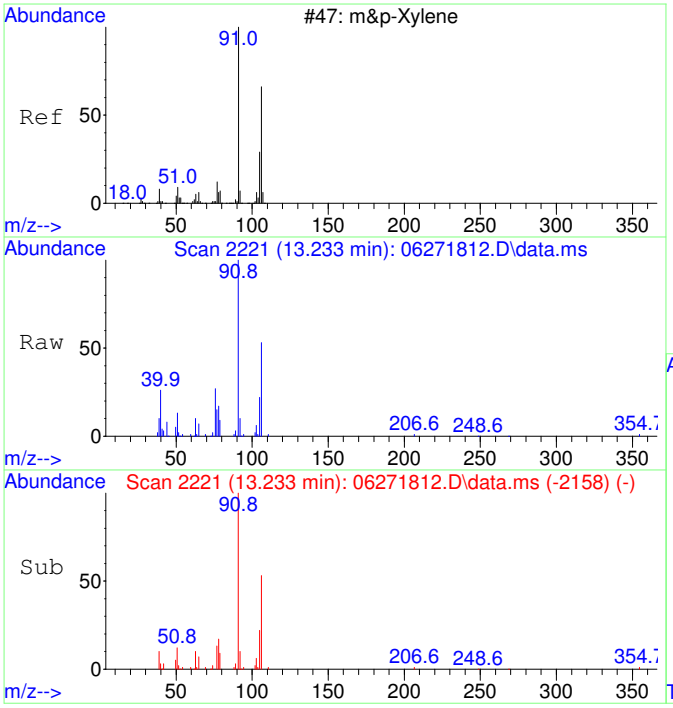


#42
Ethylbenzene SCAN
Concen: 1366.47 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 24916

Ion	Ratio	Lower	Upper
91	100		
106	36.0	3.2	63.2
51	13.5	0.0	40.1

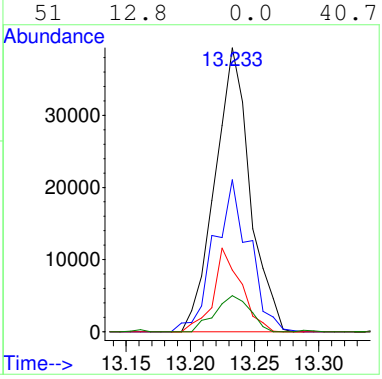


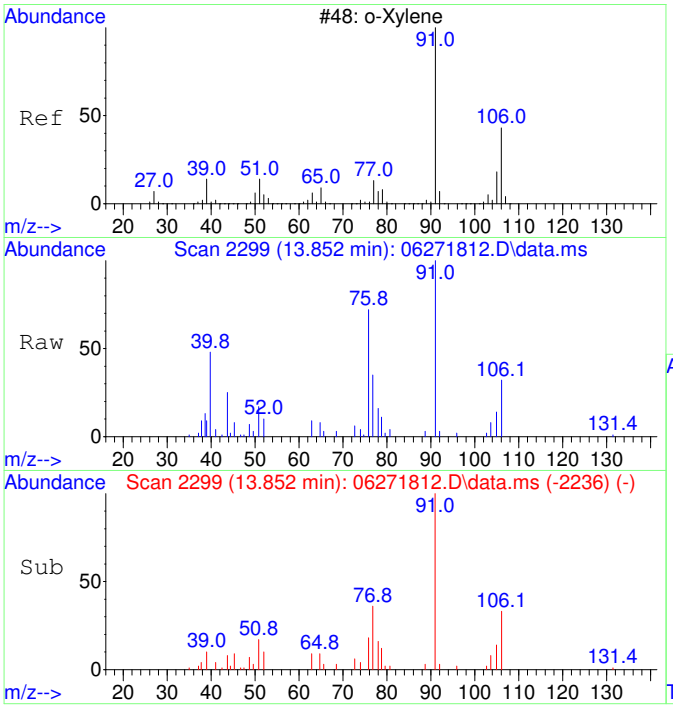


#43
m&p-Xylene SCAN
Concen: 2949.95 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 74662

Ion	Ratio	Lower	Upper
91	100		
106	53.7	20.1	80.1
105	23.4	0.0	51.1
51	12.8	0.0	40.7

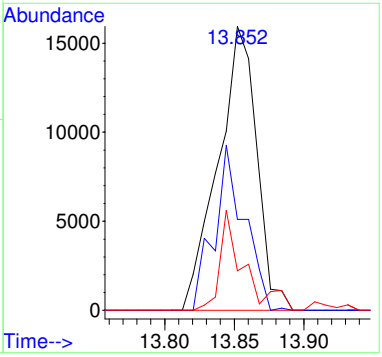


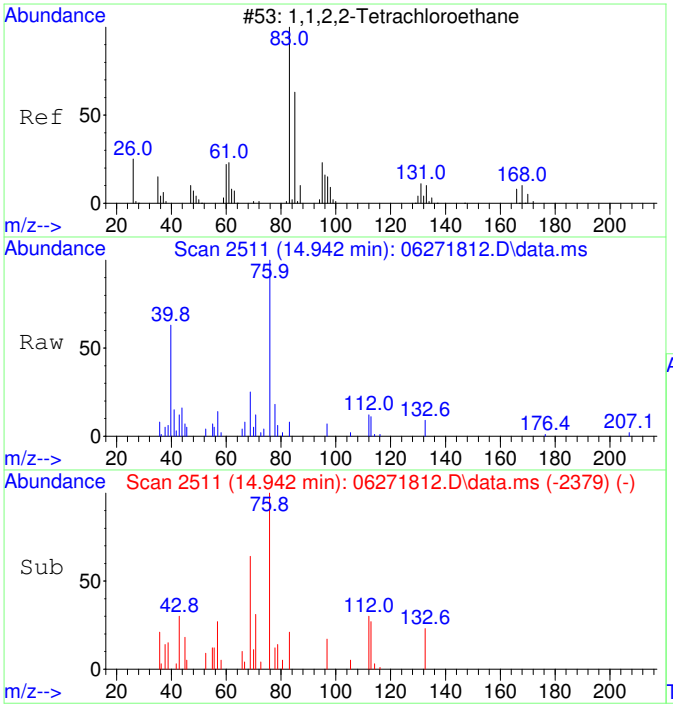


#44
o-Xylene SCAN
Concen: 2143.45 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 91 Resp: 30877

Ion	Ratio	Lower	Upper
91	100		
106	45.2	21.3	81.3
105	21.6	0.0	55.2

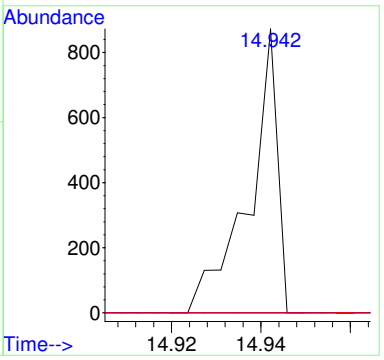


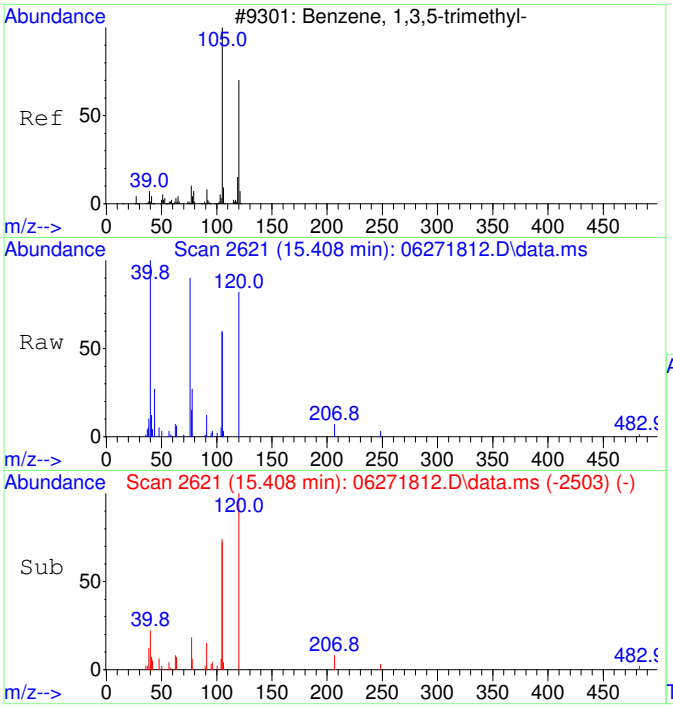


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 56.83 ug/L
RT: 14.942 min Scan# 2511
Delta R.T. -0.011 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion: 83 Resp: 388

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

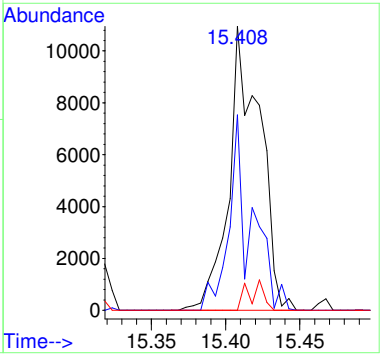


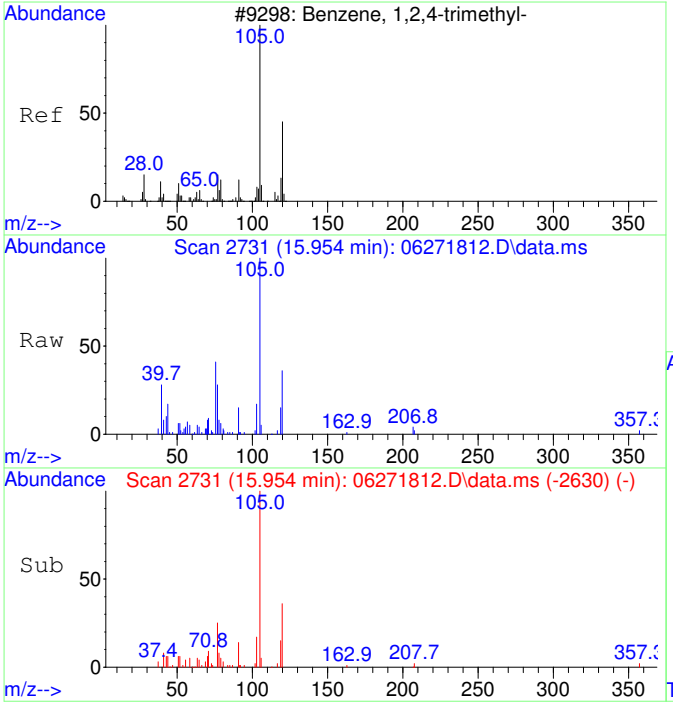


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1117.20 ug/L
RT: 15.408 min Scan# 2621
Delta R.T. -0.005 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:105 Resp: 15957

Ion	Ratio	Lower	Upper
105	100		
120	49.2	16.8	76.8
119	5.2	0.0	41.5

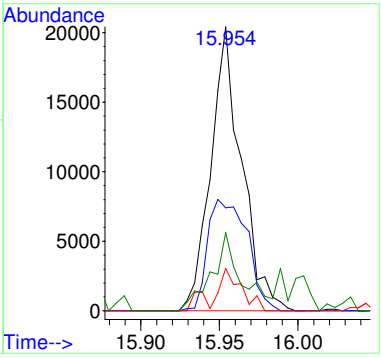




#47
1,2,4-Trimethylbenzene SCAN
Concen: 1898.58 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. -0.000 min
Lab File: 06271812.D
Acq: 27 Jun 2018 13:52

Tgt Ion:105 Resp: 27791

Ion	Ratio	Lower	Upper
105	100		
120	50.3	15.4	75.4
119	9.9	0.0	41.7
77	21.1	0.0	42.0



B18F097-BLK2

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271814.D
Acq On : 27 Jun 2018 14:39
InstName : AG5975C
Operator : TD
Sample : B18F097-BLK2
Misc : RR for HIGH IS
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 14:58:20 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

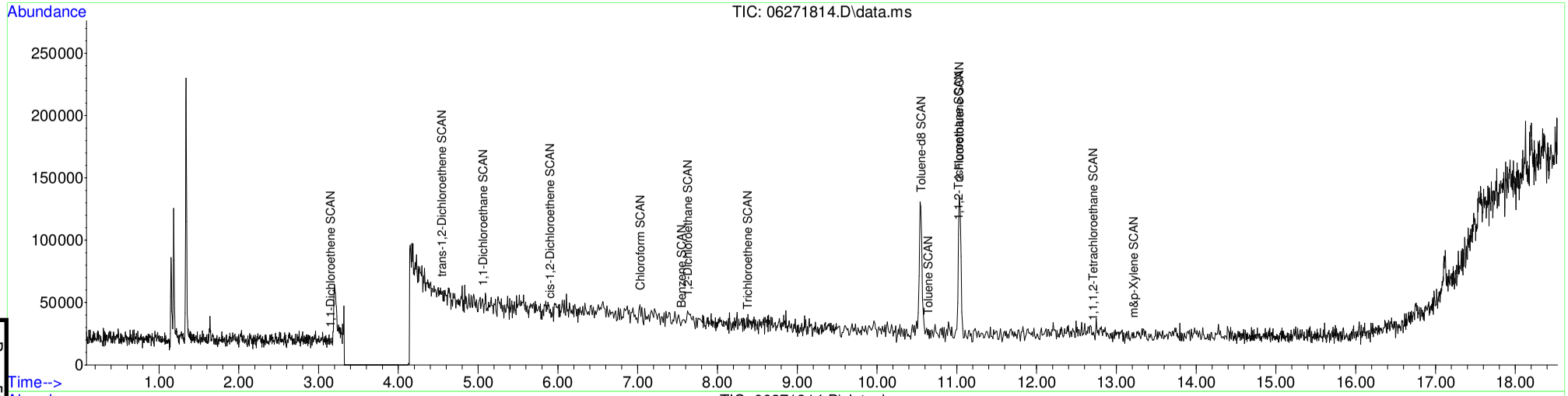
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	162058	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	137179	5211.35	ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.23%			
Target Compounds						Qvalue
9] Benzene	7.552	78	1101	42.31	ug/L #	8
25) 2-Fluorotoluene SCAN	11.032	109	102881	5448.03	ug/L	91
26) 1,1-Dichloroethene SCAN	3.151	61	117	24.83	ug/L #	30
27) trans-1,2-Dichloroethe...	4.547	61	110	20.05	ug/L #	1
28) 1,1-Dichloroethane SCAN	5.058	63	847	121.36	ug/L #	43
29) cis-1,2-Dichloroethene...	5.894	61	172	28.50	ug/L #	30
30) Chloroform SCAN	7.027	83	442	59.66	ug/L #	28
33) Benzene SCAN	7.550	78	7190	365.59	ug/L #	48
34) 1,2-Dichloroethane SCAN	7.623	62	460	68.58	ug/L #	1
35) Trichloroethene SCAN	8.372	130	100	20.78	ug/L #	5
36) Toluene-d8 SCAN	10.549	98	81628	4781.64	ug/L	98
37) Toluene SCAN	10.643	91	1069	49.02	ug/L #	31
38) 1,1,2-Trichloroethane ...	11.021	97	91	21.78	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.708	131	115	24.36	ug/L #	13
43) m&p-Xylene SCAN	13.217	91	1059	30.10	ug/L #	43

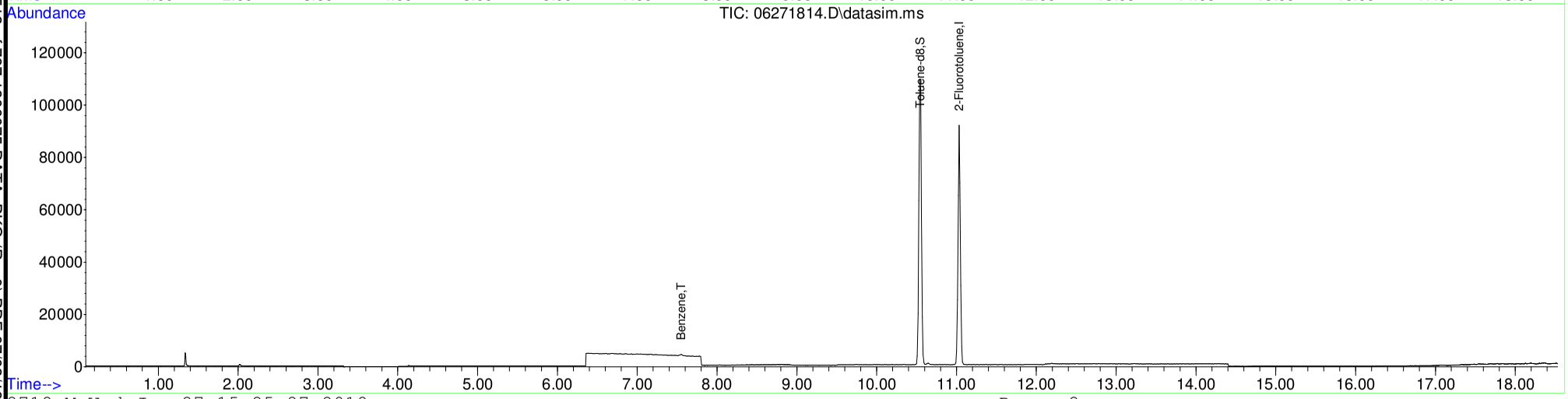
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271814.D
Acq On : 27 Jun 2018 14:39
InstName : AG5975C
Operator : TD
Sample : B18F097-BLK2
Misc : RR for HIGH IS
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 14:58:20 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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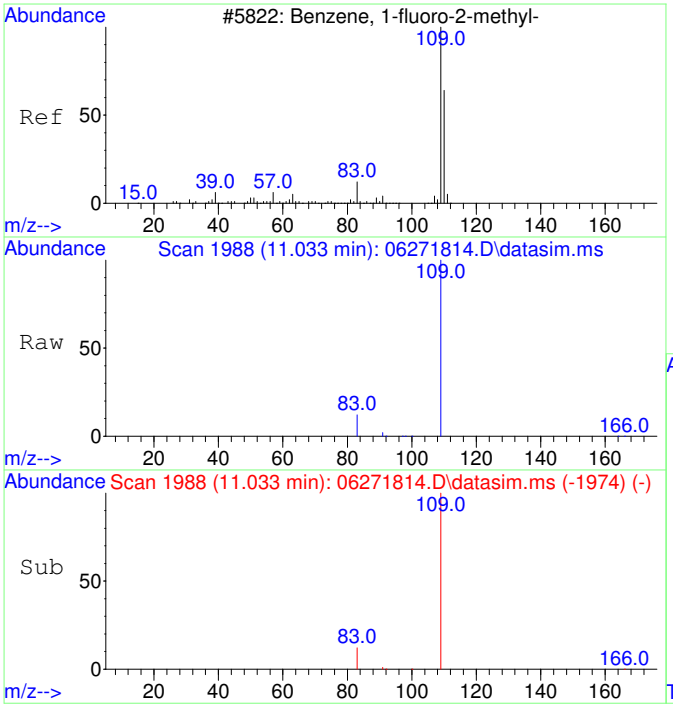
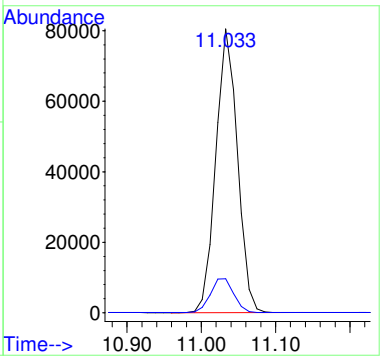
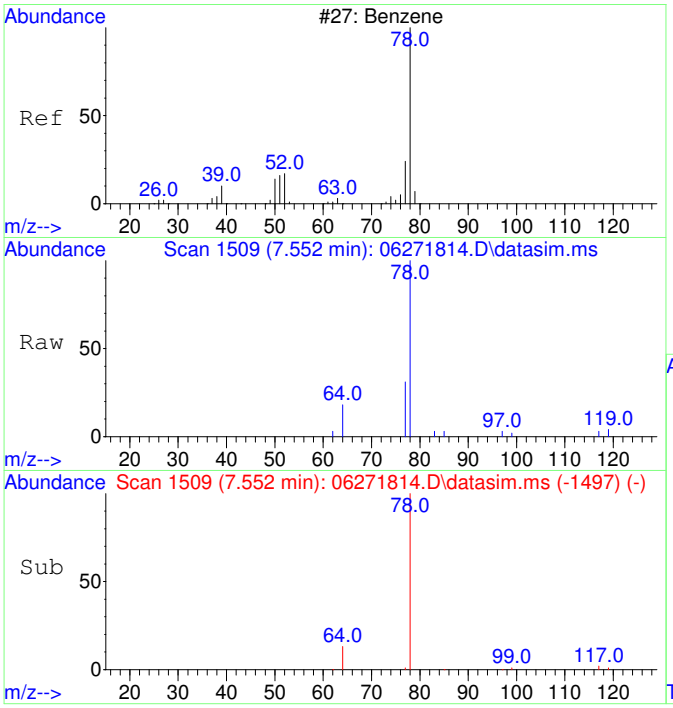


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion:109 Resp: 162058

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.7

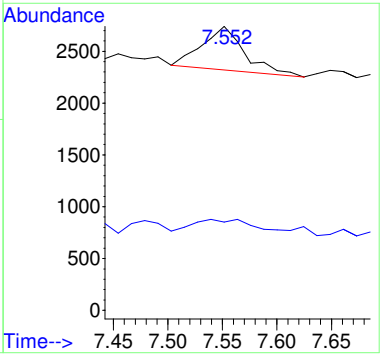


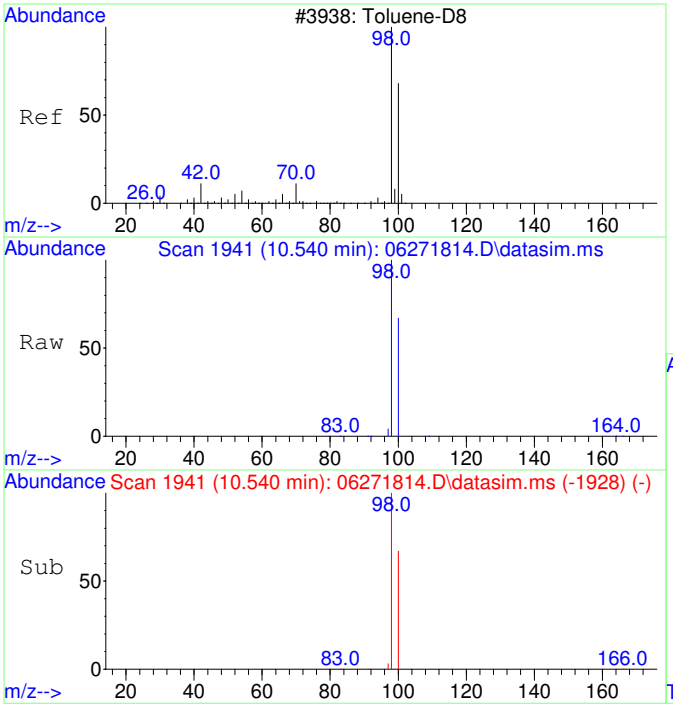


#9
Benzene
Concen: 42.31 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 78 Resp: 1101

Ion	Ratio	Lower	Upper
78	100		
77	67.5	0.0	53.0#

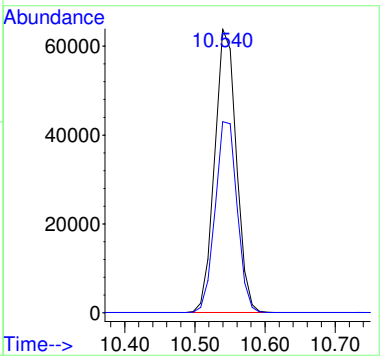


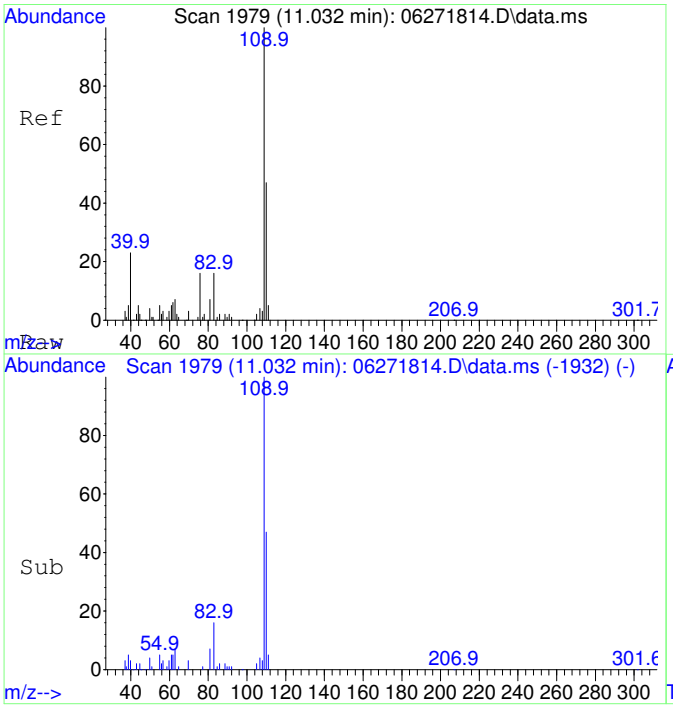


#12
Toluene-d8
Concen: 5211.35 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 98 Resp: 137179

Ion	Ratio	Lower	Upper
98	100		
100	68.5	38.7	98.7

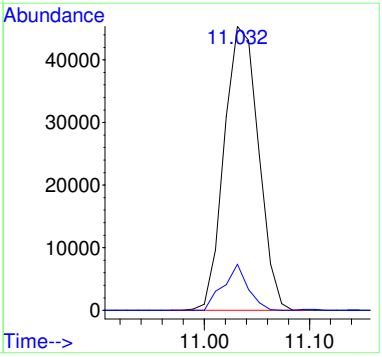


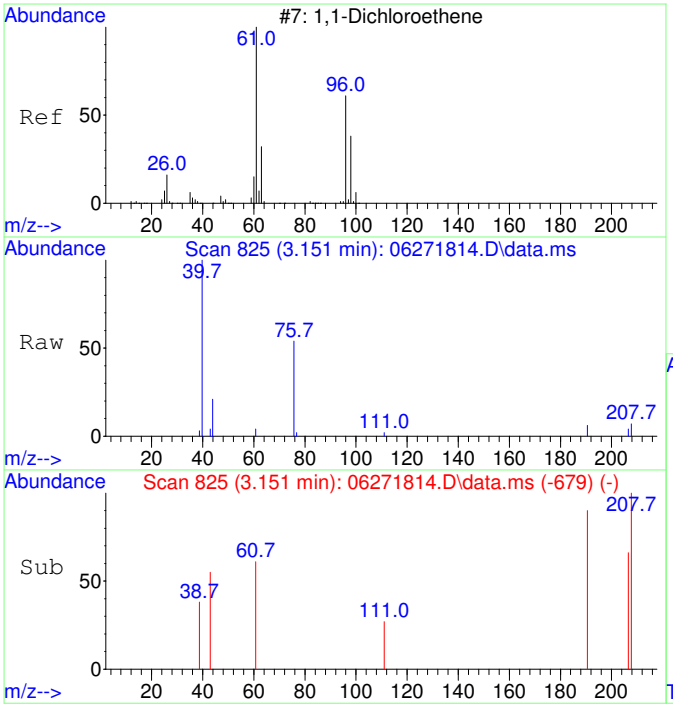


#25
2-Fluorotoluene SCAN
Concen: 5448.03 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion:109 Resp: 102881

Ion	Ratio	Lower	Upper
109	100		
83	11.8	0.0	45.7

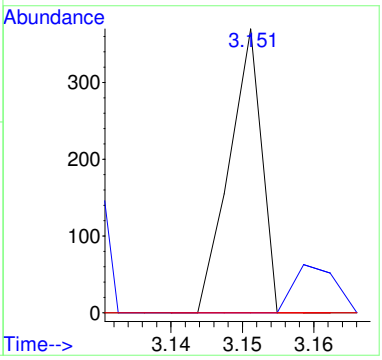


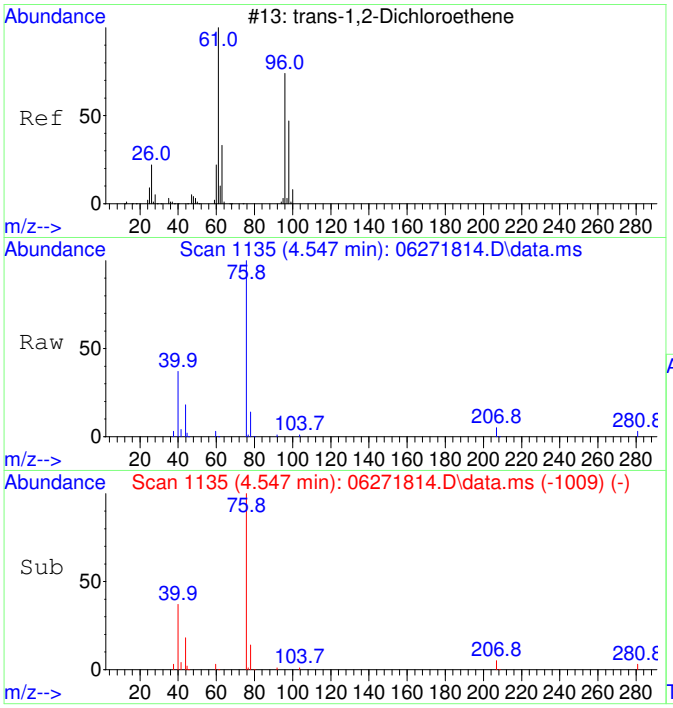


#26
1,1-Dichloroethene SCAN
Concen: 24.83 ug/L
RT: 3.151 min Scan# 825
Delta R.T. 0.041 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 61 Resp: 117

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

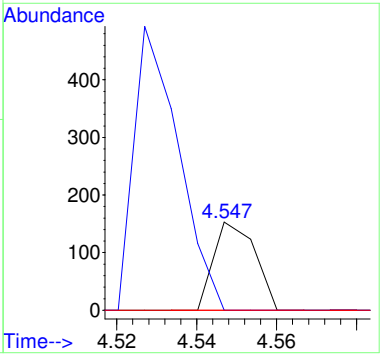


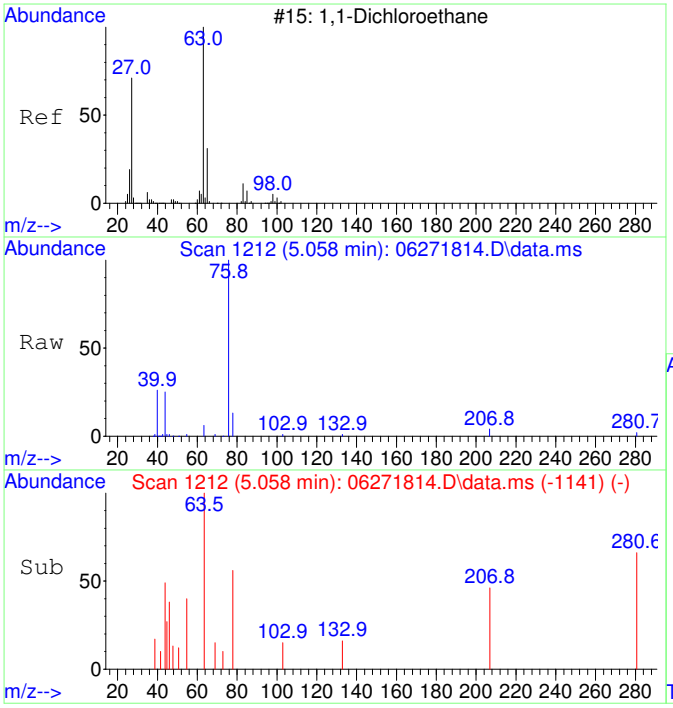


#27
trans-1,2-Dichloroethene SCAN
Concen: 20.05 ug/L
RT: 4.547 min Scan# 1135
Delta R.T. 0.212 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 61 Resp: 110

Ion	Ratio	Lower	Upper
61	100		
96	347.3	37.9	97.9#
98	0.0	12.7	72.7#

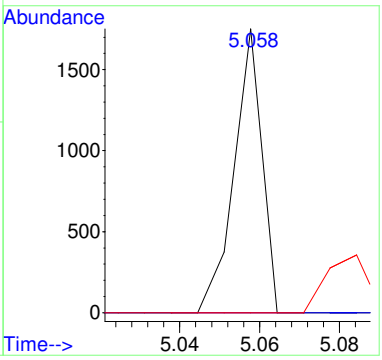


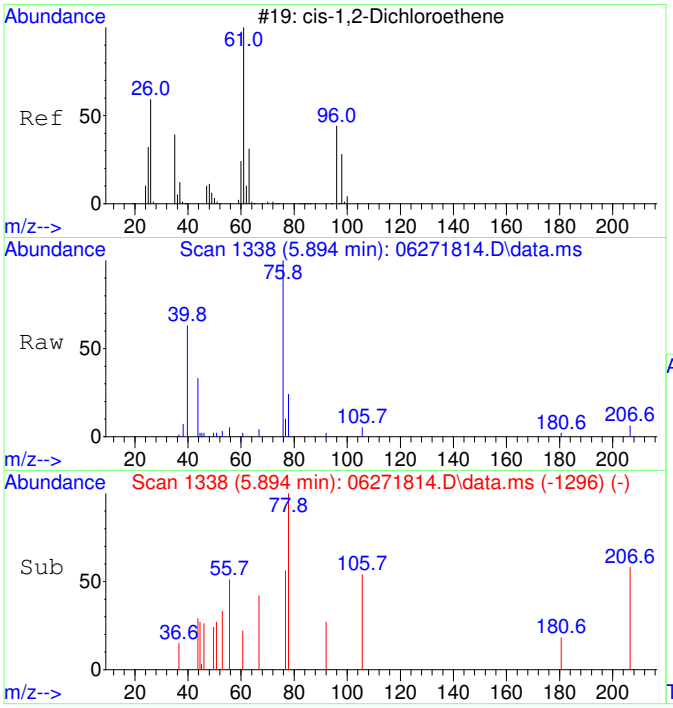


#28
1,1-Dichloroethane SCAN
Concen: 121.36 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.027 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 63 Resp: 847

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

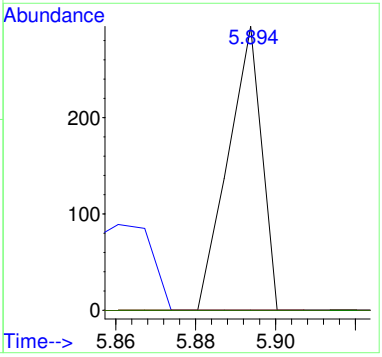


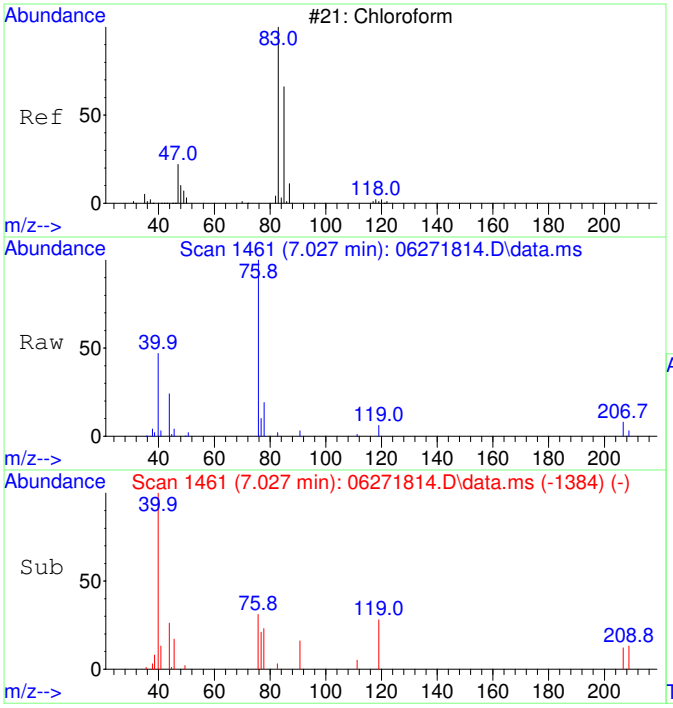


#29
cis-1,2-Dichloroethene SCAN
Concen: 28.50 ug/L
RT: 5.894 min Scan# 1338
Delta R.T. -0.219 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 61 Resp: 172

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#

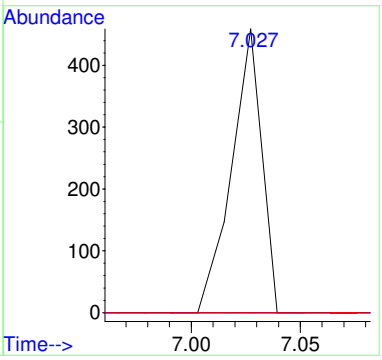


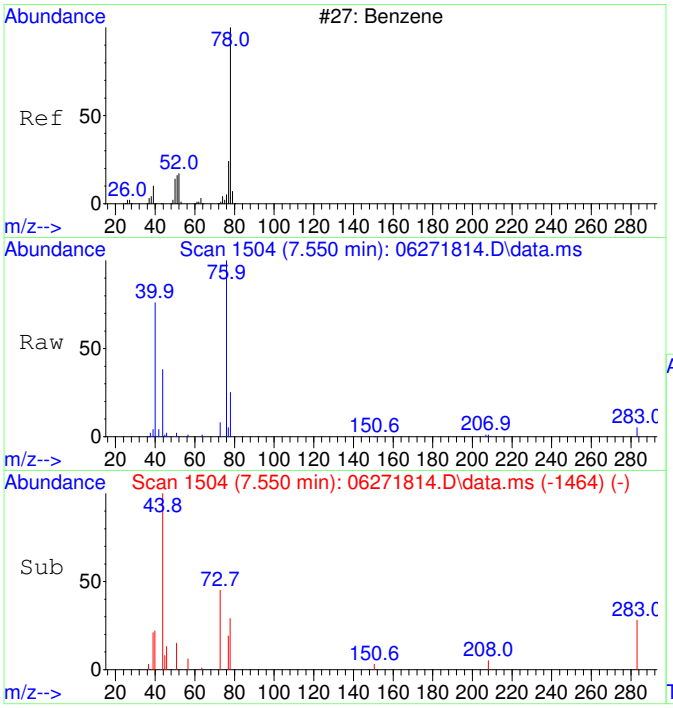


#30
Chloroform SCAN
Concen: 59.66 ug/L
RT: 7.027 min Scan# 1461
Delta R.T. 0.328 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 83 Resp: 442

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

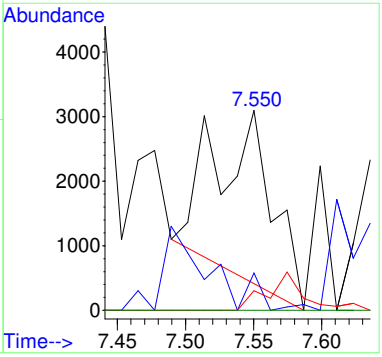


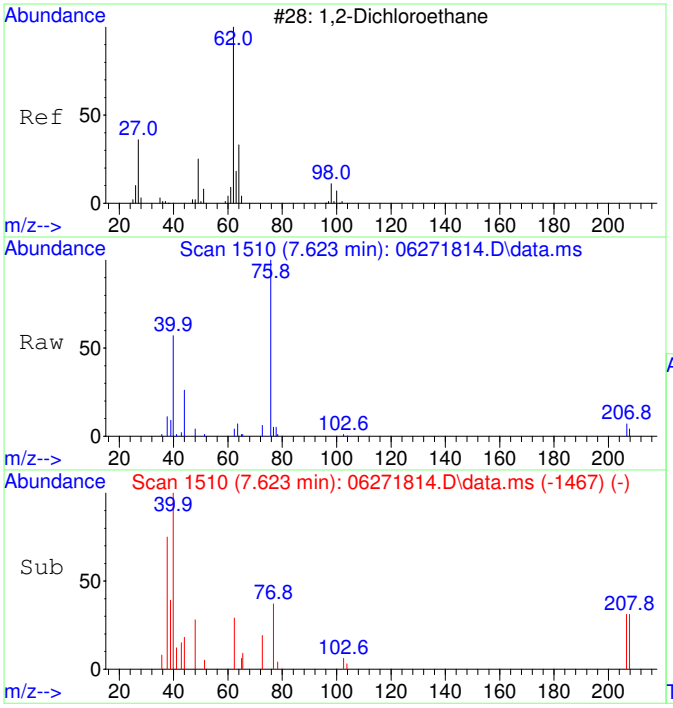


#33
Benzene SCAN
Concen: 365.59 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.012 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 78 Resp: 7190

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

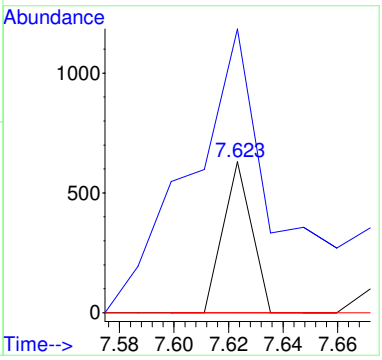


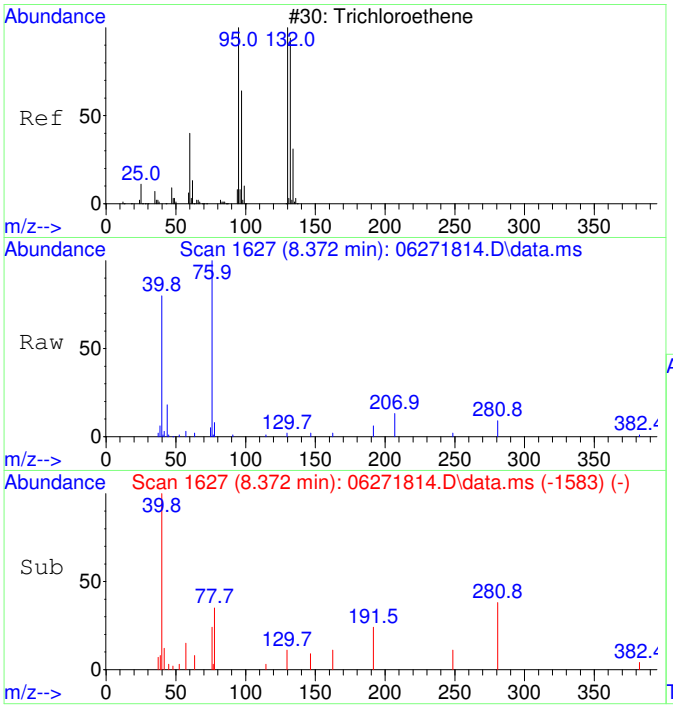


#34
1,2-Dichloroethane SCAN
Concen: 68.58 ug/L
RT: 7.623 min Scan# 1510
Delta R.T. 0.024 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 62 Resp: 460

Ion	Ratio	Lower	Upper
62	100		
64	609.1	1.2	61.2#
49	0.0	10.4	70.4#

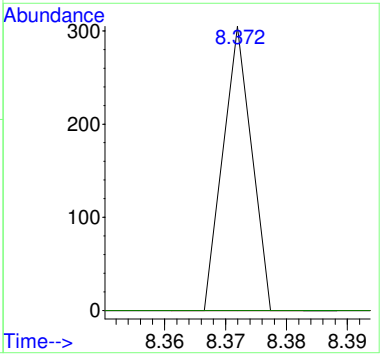


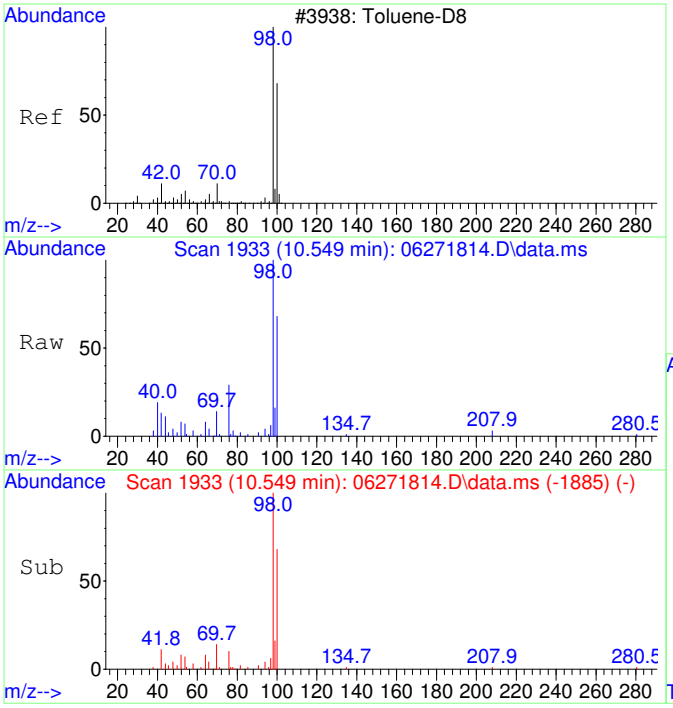


#35
Trichloroethene SCAN
Concen: 20.78 ug/L
RT: 8.372 min Scan# 1627
Delta R.T. -0.261 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion:130 Resp: 100

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

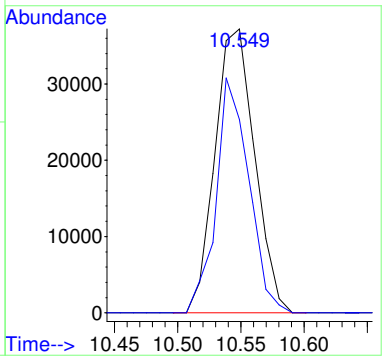


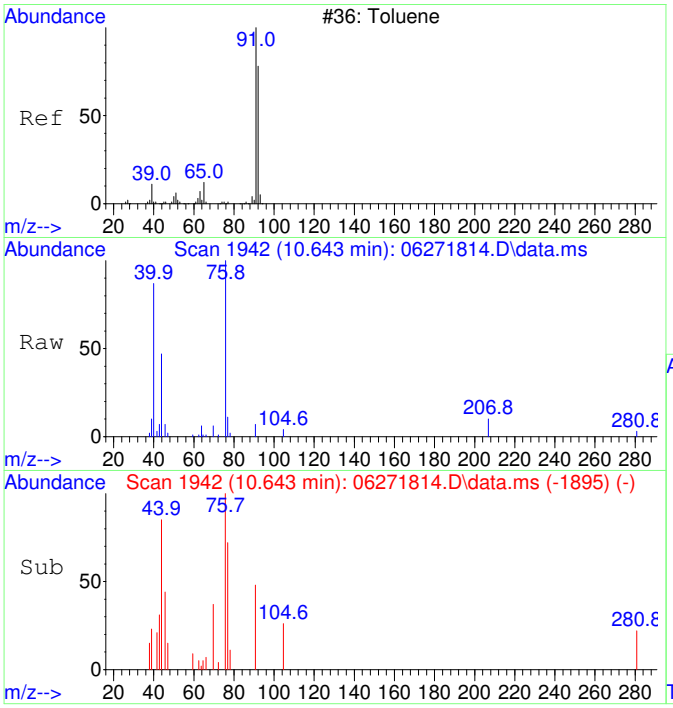


#36
Toluene-d8 SCAN
Concen: 4781.64 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 98 Resp: 81628

Ion	Ratio	Lower	Upper
98	100		
100	68.0	39.5	99.5

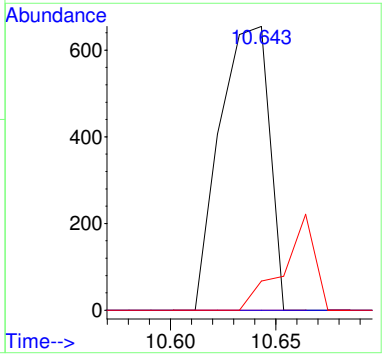


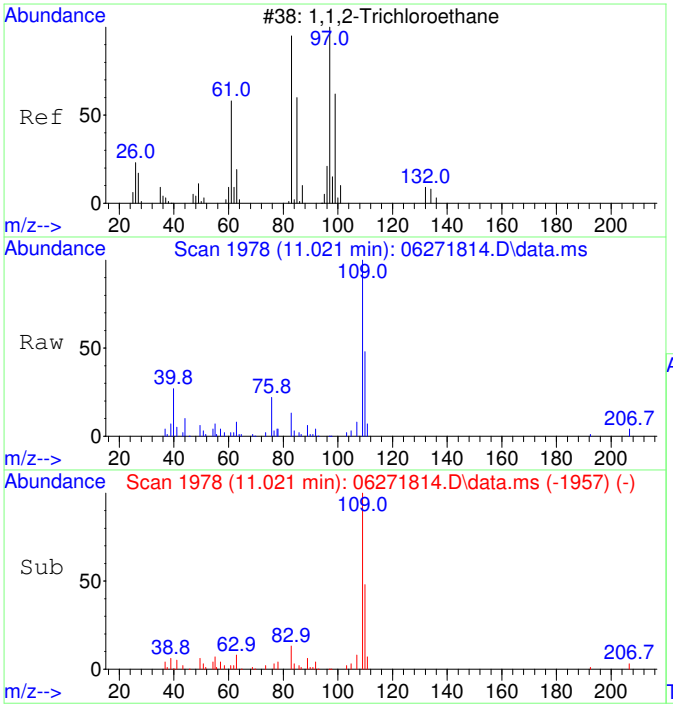


#37
Toluene SCAN
Concen: 49.02 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.011 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 91 Resp: 1069

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

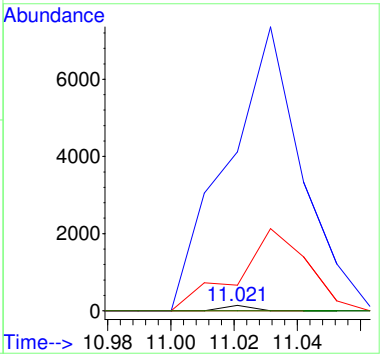


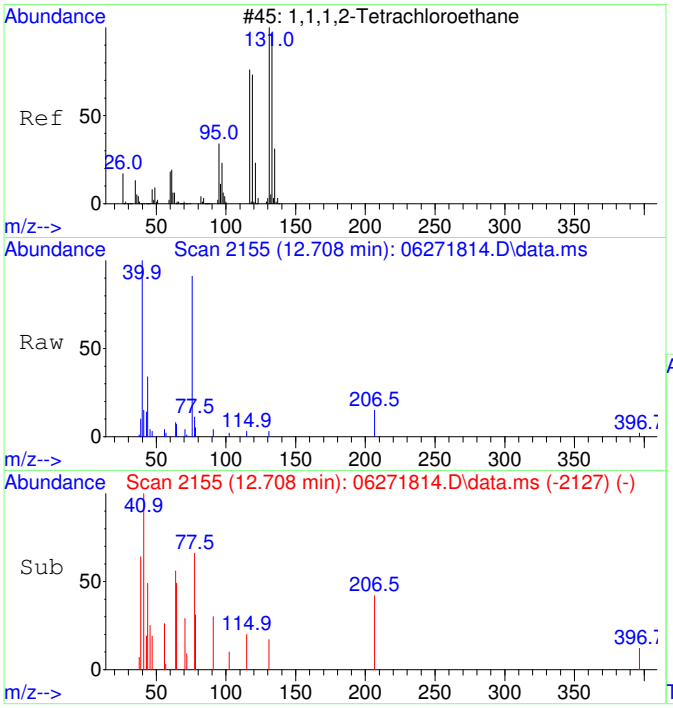


#38
1,1,2-Trichloroethane SCAN
Concen: 21.78 ug/L
RT: 11.021 min Scan# 1978
Delta R.T. -0.284 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 97 Resp: 91

Ion	Ratio	Lower	Upper
97	100		
83	13286.8	63.6	123.6#
61	3582.4	44.9	104.9#
99	0.0	37.0	97.0#

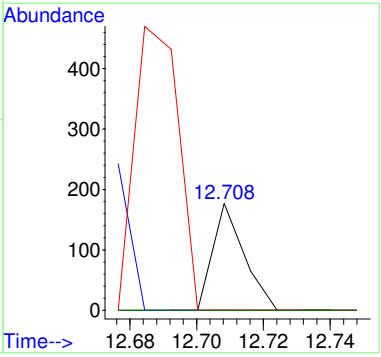


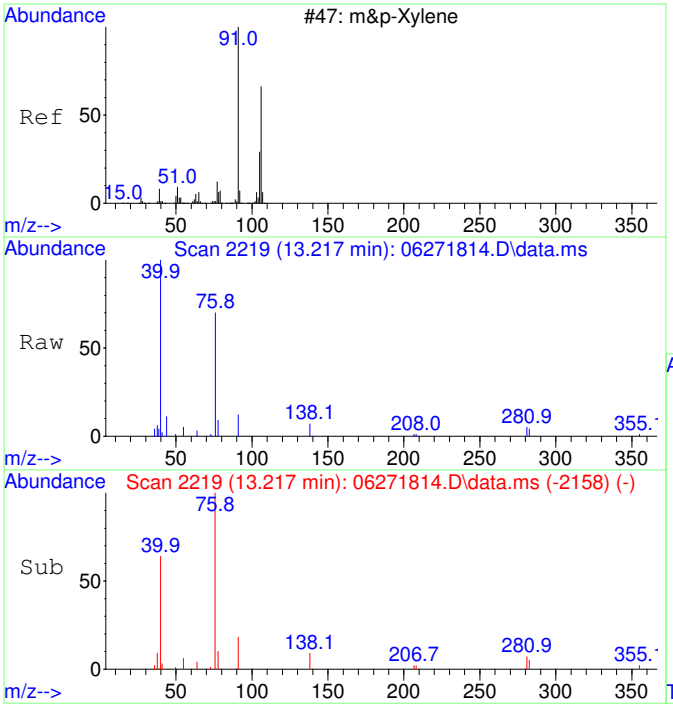


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 24.36 ug/L
RT: 12.708 min Scan# 2155
Delta R.T. -0.278 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion:131 Resp: 115

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#

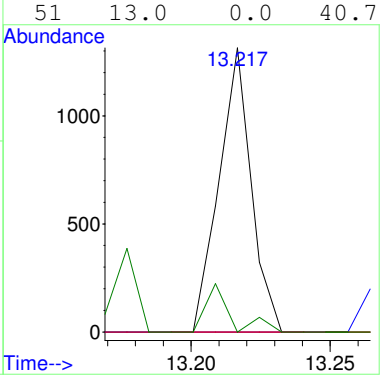




#43
m&p-Xylene SCAN
Concen: 30.10 ug/L
RT: 13.217 min Scan# 2219
Delta R.T. -0.016 min
Lab File: 06271814.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 91 Resp: 1059

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	0.0	0.0	51.1
51	13.0	0.0	40.7



B18F097-BS2

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271815.D
Acq On : 27 Jun 2018 15:03
InstName : AG5975C
Operator : TD
Sample : B18F097-BS2
Misc : RR for HIGH IS
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 15:25:38 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

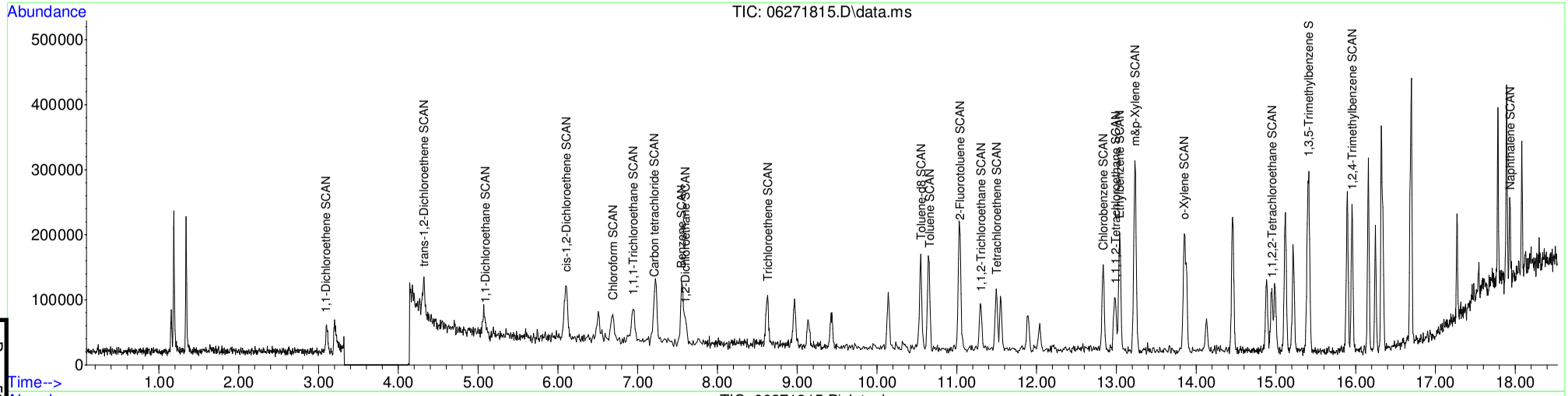
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	182157	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	154265	5213.80 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.28%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	35812	4691.28 ug/L	99
3] trans-1,2-Dichloroethene	4.309	61	42682	5240.09 ug/L	100
4] 1,1-Dichloroethane	5.072	63	54617	5387.33 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	51989	5198.26 ug/L	100
6] Chloroform	6.676	83	56869	5280.84 ug/L	99
7] 1,1,1-Trichloroethane	6.944	97	54569	5148.16 ug/L	99
8] Carbon tetrachloride	7.211	117	50377	5017.37 ug/L	100
9] Benzene	7.552	78	145068	4960.07 ug/L	100
10] 1,2-Dichloroethane	7.588	62	47906	5082.42 ug/L	98
11] Trichloroethene	8.618	130	41783	5197.98 ug/L	100
13] Toluene	10.645	91	182043	4588.83 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	40615	4953.30 ug/L	100
15] Tetrachloroethene	11.495	166	54549	4880.44 ug/L	100
16] Chlorobenzene	12.837	112	128758	4547.46 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.980	131	47144	4906.29 ug/L	99
18] Ethylbenzene	13.035	91	230112	4833.57 ug/L	100
19] m&p-Xylene	13.226	91	343316	9343.54 ug/L	100
20] o-Xylene	13.846	91	171618	4410.12 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.947	83	76534	4566.72 ug/L	99
22] 1,3,5-Trimethylbenzene	15.414	105	201791	4582.97 ug/L	100
23] 1,2,4-Trimethylbenzene	15.955	105	194155	4408.25 ug/L	99
24] Naphthalene	17.936	128	85781	1186.79 ug/L	99
25) 2-Fluorotoluene SCAN	11.042	109	112217	5286.73 ug/L	91
26) 1,1-Dichloroethene SCAN	3.096	61	19899	3756.90 ug/L	75
27) trans-1,2-Dichloroethe...	4.315	61	28855	4679.44 ug/L	81
28) 1,1-Dichloroethane SCAN	5.084	63	42309	5393.38 ug/L	98
29) cis-1,2-Dichloroethene...	6.106	61	42239	6225.88 ug/L	87
30) Chloroform SCAN	6.687	83	34701	4167.06 ug/L	85
31) 1,1,1-Trichloroethane ...	6.942	97	31933	4307.71 ug/L	72
32) Carbon tetrachloride SCAN	7.210	117	35508	4861.31 ug/L	89
33) Benzene SCAN	7.550	78	109849	4969.19 ug/L	96
34) 1,2-Dichloroethane SCAN	7.599	62	32907	4364.95 ug/L	86
35) Trichloroethene SCAN	8.628	130	29726	5495.14 ug/L	96
36) Toluene-d8 SCAN	10.549	98	98850	5151.56 ug/L	83
37) Toluene SCAN	10.654	91	124390	5074.83 ug/L	98
38) 1,1,2-Trichloroethane ...	11.305	97	30168	6422.98 ug/L	81
39) Tetrachloroethene SCAN	11.493	166	31070	5776.52 ug/L	90
40) Chlorobenzene SCAN	12.836	112	79330	5335.26 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.986	131	28882	5441.83 ug/L	86
42) Ethylbenzene SCAN	13.042	91	146762	5151.10 ug/L	97
43) m&p-Xylene SCAN	13.233	91	214532	5424.64 ug/L	98
44) o-Xylene SCAN	13.852	91	116579	5179.18 ug/L	90
45) 1,1,2,2-Tetrachloroeth...	14.946	83	51333	4811.71 ug/L	97
46) 1,3,5-Trimethylbenzene...	15.413	105	120079	5380.35 ug/L	94
47) 1,2,4-Trimethylbenzene...	15.954	105	114471	5004.76 ug/L	99
48) Naphthalene SCAN	17.935	128	51483	1577.57 ug/L	95

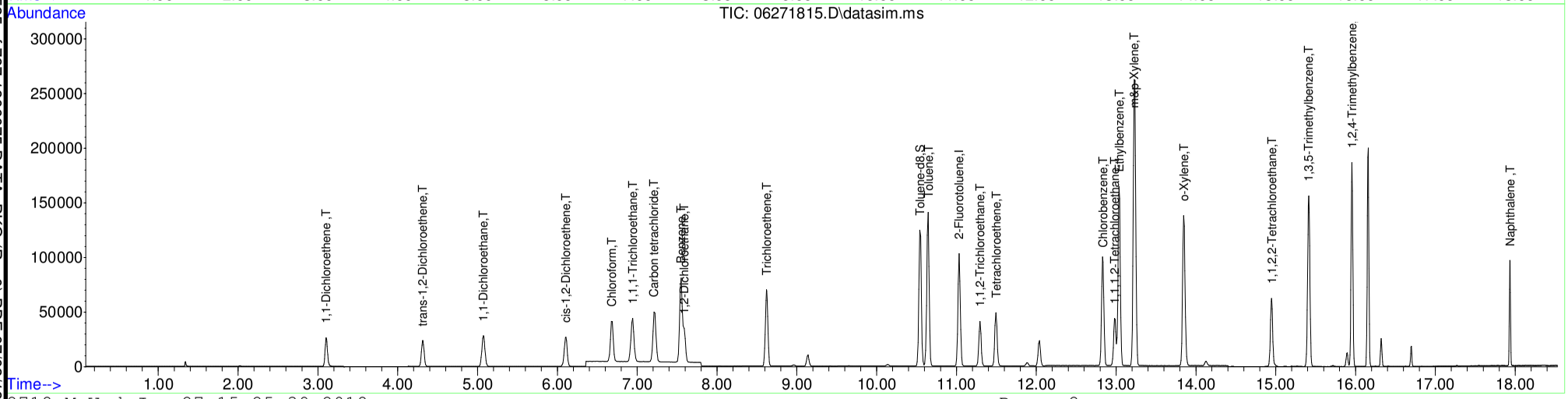
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271815.D
Acq On : 27 Jun 2018 15:03
InstName : AG5975C
Operator : TD
Sample : B18F097-BS2
Misc : RR for HIGH IS
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 15:25:38 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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1806075-01RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271816.D
Acq On : 27 Jun 2018 15:30
InstName : AG5975C
Operator : TD
Sample : 1806075-01RE1
Misc : 10X DL, 450 uL-50 uL
ALS Vial : 16 Sample Multiplier: 10

Quant Time: Jun 28 07:05:40 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

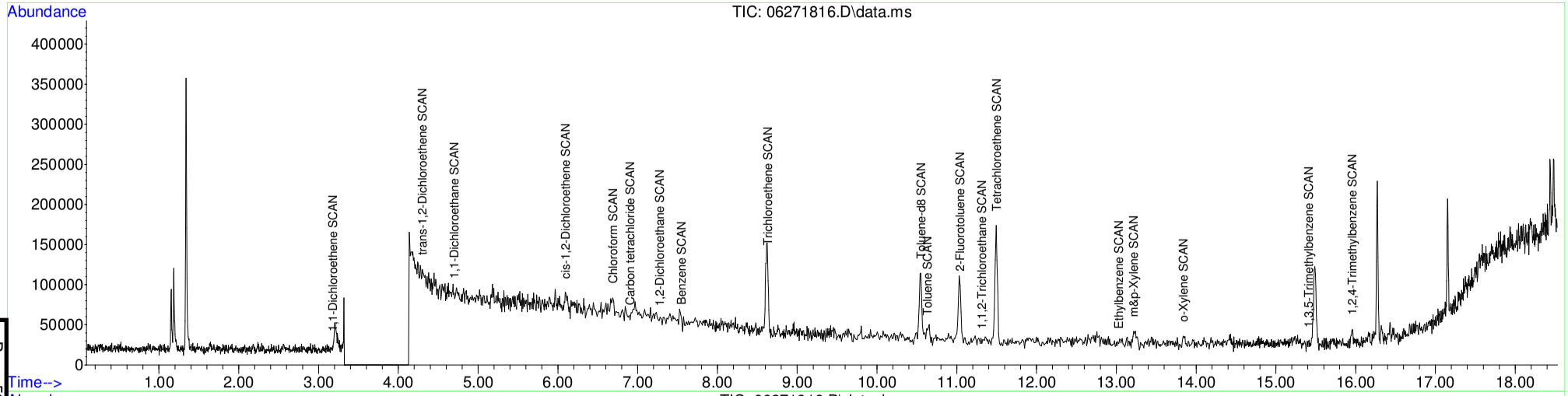
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	118250	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	96575	5028.02 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.56%		
Target Compounds					Qvalue
3] trans-1,2-Dichloroethene	4.303	61	1579	298.62 ug/L	96
5] cis-1,2-Dichloroethene	6.101	61	18963	2920.77 ug/L	100
6] Chloroform	6.676	83	22986	3288.03 ug/L	98
8] Carbon tetrachloride	7.199	117	213	32.68 ug/L	89
9] Benzene	7.540	78	1120	58.99 ug/L #	20
11] Trichloroethene	8.618	130	62817	12038.08 ug/L	99
13] Toluene	10.645	91	23409	908.98 ug/L	98
14] 1,1,2-Trichloroethane	11.232	97	184	34.57 ug/L #	57
15] Tetrachloroethene	11.495	166	80197	11052.87 ug/L	100
18] Ethylbenzene	13.035	91	5457	176.57 ug/L	98
19] m&p-Xylene	13.226	91	16423	688.52 ug/L	97
20] o-Xylene	13.846	91	7518	297.60 ug/L	99
22] 1,3,5-Trimethylbenzene	15.413	105	4057	141.94 ug/L	98
23] 1,2,4-Trimethylbenzene	15.954	105	10336	361.51 ug/L	99
25) 2-Fluorotoluene SCAN	11.042	109	73151	5308.77 ug/L	90
26) 1,1-Dichloroethene SCAN	3.178	61	94	27.34 ug/L #	1
27) trans-1,2-Dichloroethe...	4.301	61	393	98.18 ug/L #	43
28) 1,1-Dichloroethane SCAN	4.700	63	653	128.23 ug/L	94
29) cis-1,2-Dichloroethene...	6.100	61	14527	3298.43 ug/L	76
30) Chloroform SCAN	6.687	83	17201	3181.90 ug/L	89
32) Carbon tetrachloride SCAN	6.906	117	120	25.31 ug/L #	13
33) Benzene SCAN	7.550	78	3137	218.60 ug/L #	12
34) 1,2-Dichloroethane SCAN	7.271	62	421	86.02 ug/L #	1
35) Trichloroethene SCAN	8.628	130	39414	11223.75 ug/L	95
36) Toluene-d8 SCAN	10.549	98	62989	5056.75 ug/L	94
37) Toluene SCAN	10.633	91	17308	1087.75 ug/L #	31
38) 1,1,2-Trichloroethane ...	11.315	97	1069	350.60 ug/L #	10
39) Tetrachloroethene SCAN	11.493	166	44888	12855.82 ug/L	89
42) Ethylbenzene SCAN	13.034	91	4612	249.36 ug/L	97
43) m&p-Xylene SCAN	13.217	91	14122	550.07 ug/L #	84
44) o-Xylene SCAN	13.844	91	7766	531.48 ug/L #	37
46) 1,3,5-Trimethylbenzene...	15.407	105	3508	242.13 ug/L	82
47) 1,2,4-Trimethylbenzene...	15.958	105	7953	535.63 ug/L	91

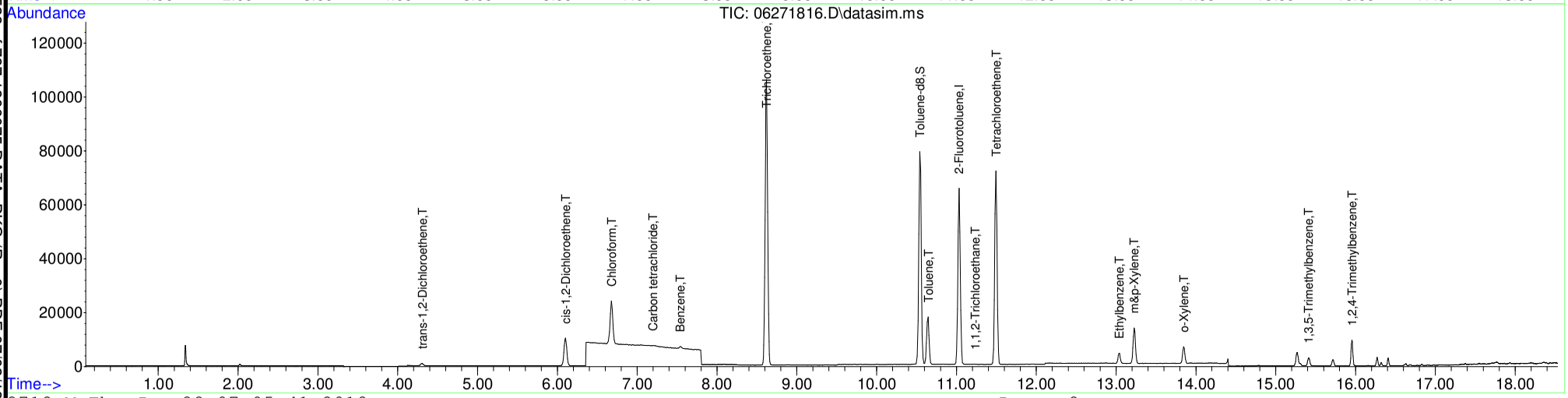
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271816.D
Acq On : 27 Jun 2018 15:30
InstName : AG5975C
Operator : TD
Sample : 1806075-01RE1
Misc : 10X DL, 450 uL-50 uL
ALS Vial : 16 Sample Multiplier: 10

Quant Time: Jun 28 07:05:40 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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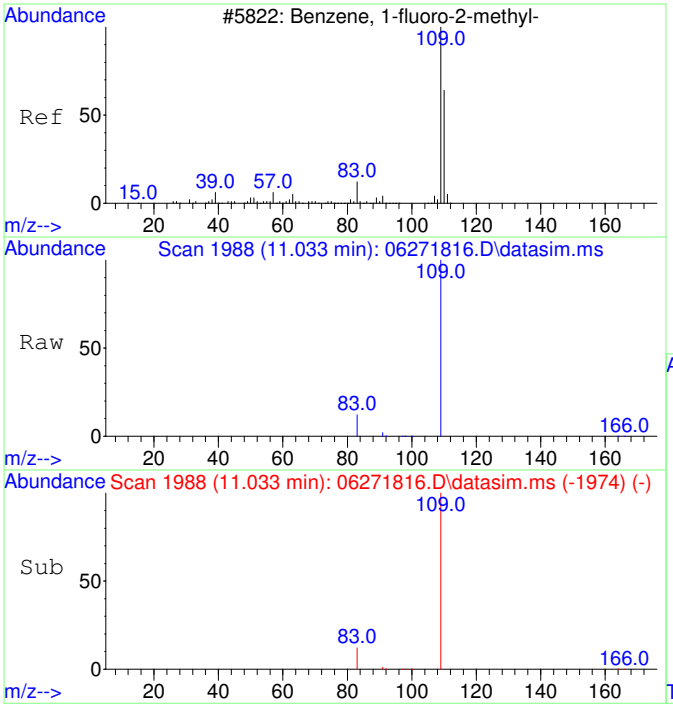
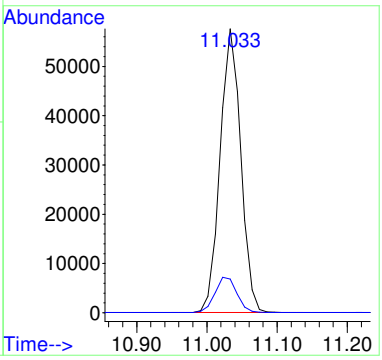
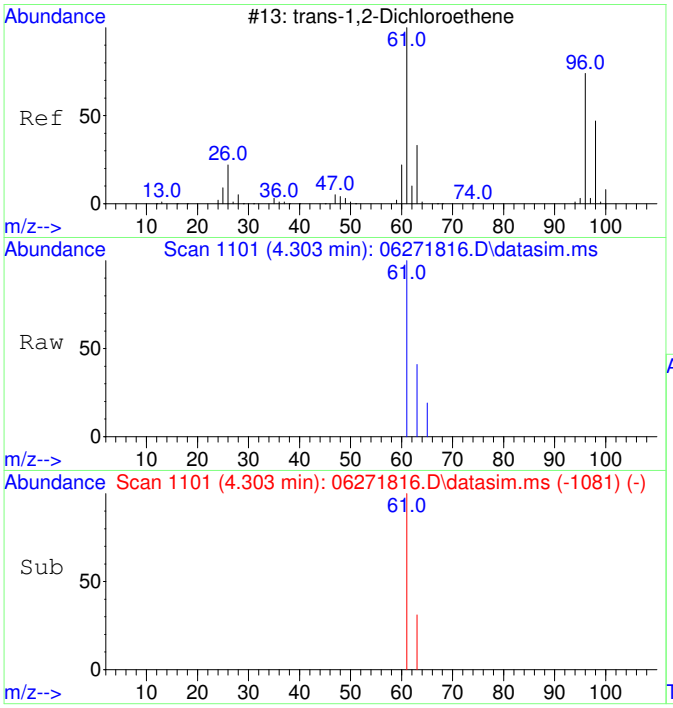


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:109 Resp: 118250

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	44.7

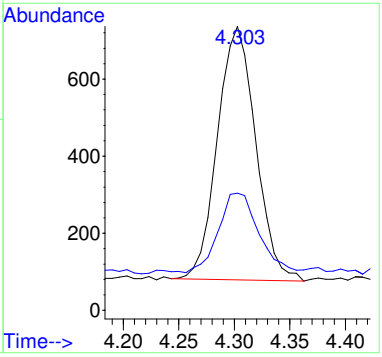


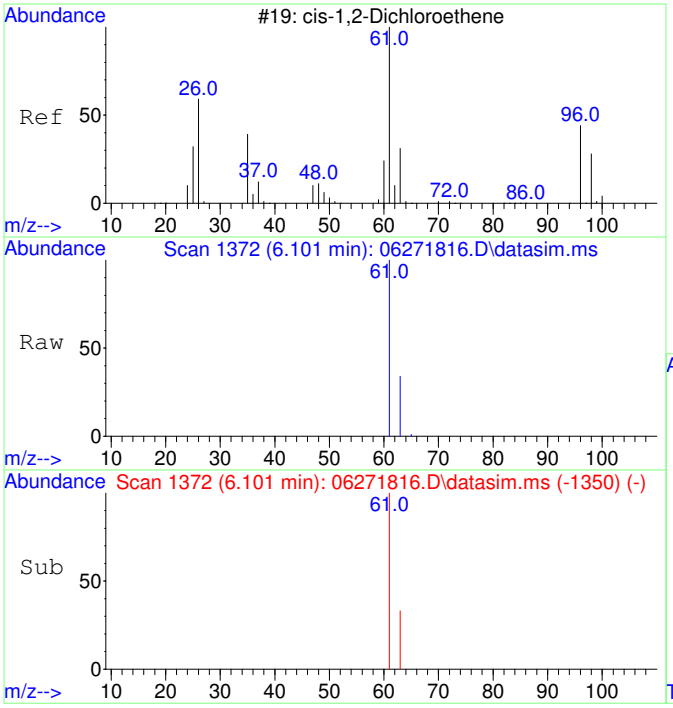


#3
trans-1,2-Dichloroethene
Concen: 298.62 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.020 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 61 Resp: 1579

Ion	Ratio	Lower	Upper
61	100		
63	34.0	2.0	62.0

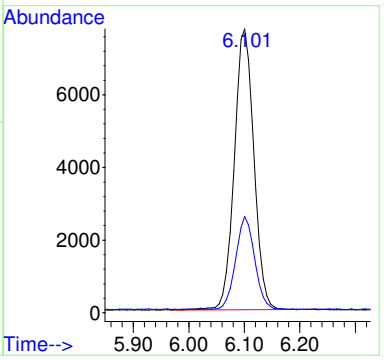


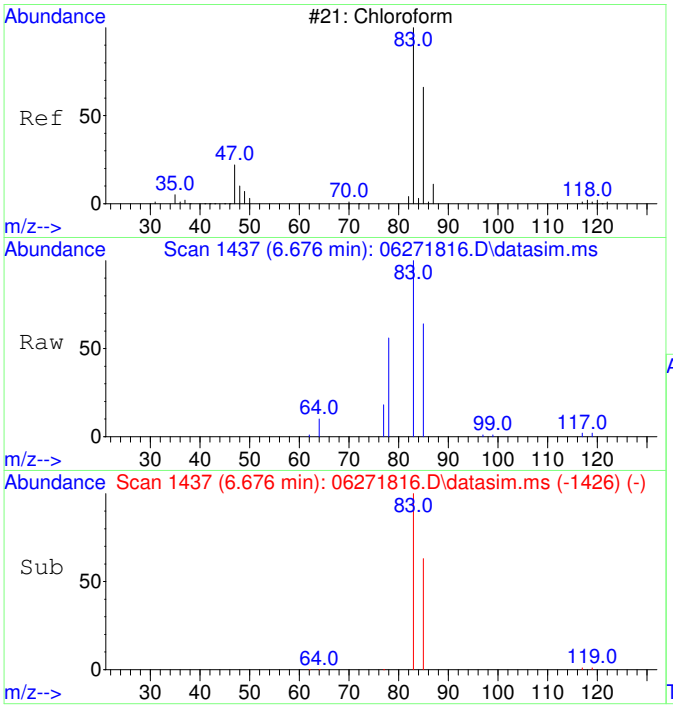


#5
cis-1,2-Dichloroethene
Concen: 2920.77 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 61 Resp: 18963

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.2	62.2

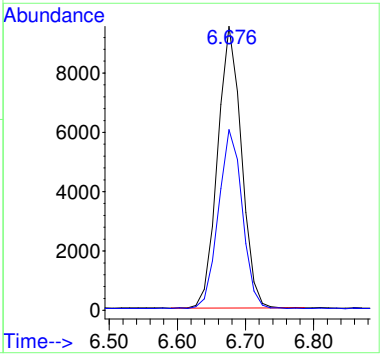


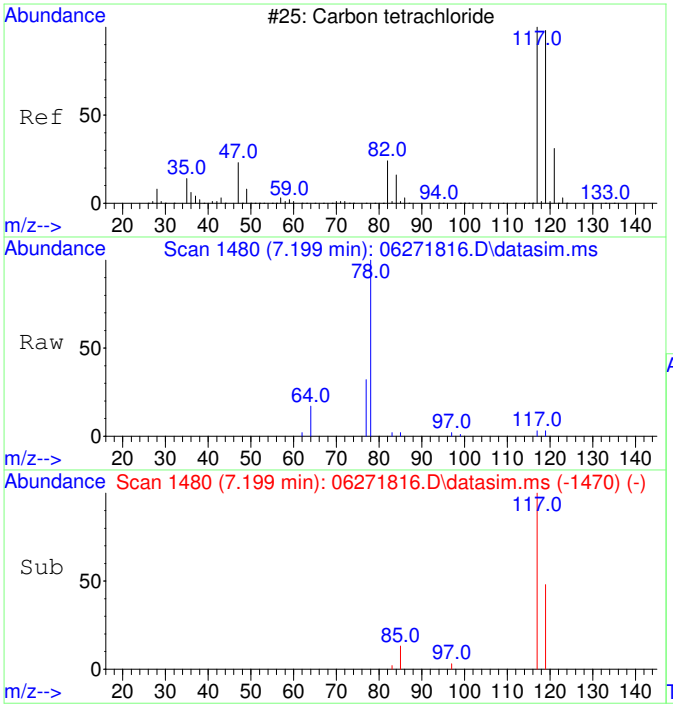


#6
Chloroform
Concen: 3288.03 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 83 Resp: 22986

Ion	Ratio	Lower	Upper
83	100		
85	63.4	34.8	94.8

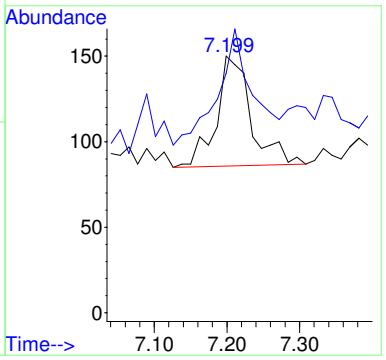


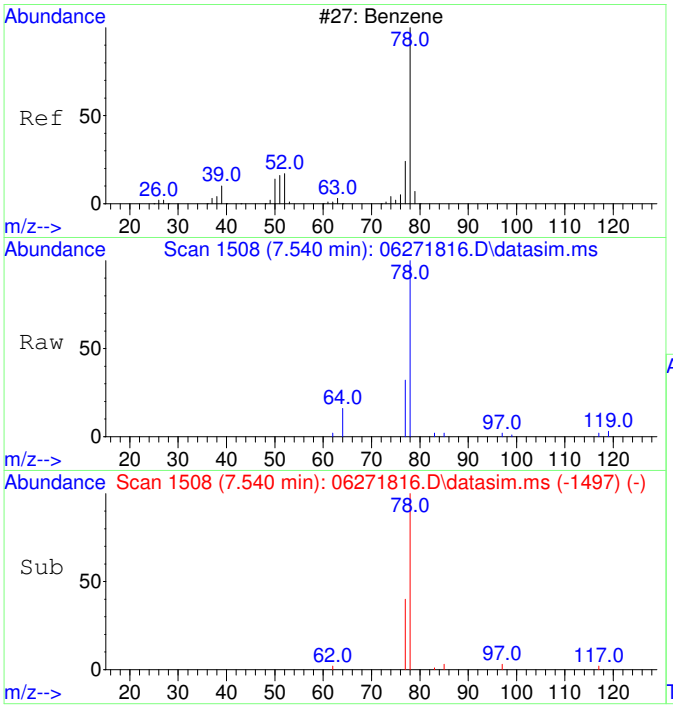


#8
Carbon tetrachloride
Concen: 32.68 ug/L
RT: 7.199 min Scan# 1480
Delta R.T. -0.024 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:117 Resp: 213

Ion	Ratio	Lower	Upper
117	100		
119	107.0	65.9	125.9

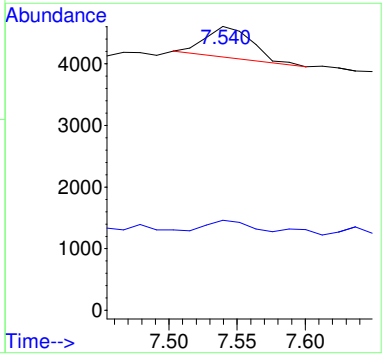


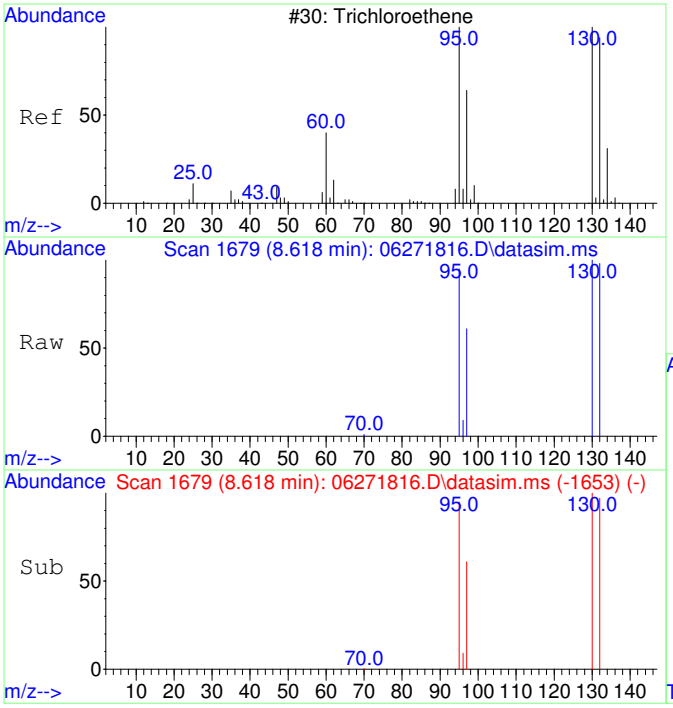


#9
Benzene
Concen: 58.99 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 78 Resp: 1120

Ion	Ratio	Lower	Upper
78	100		
77	61.8	0.0	53.0#

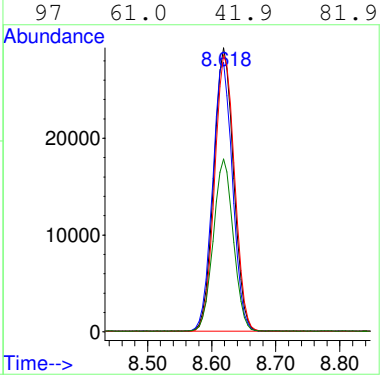


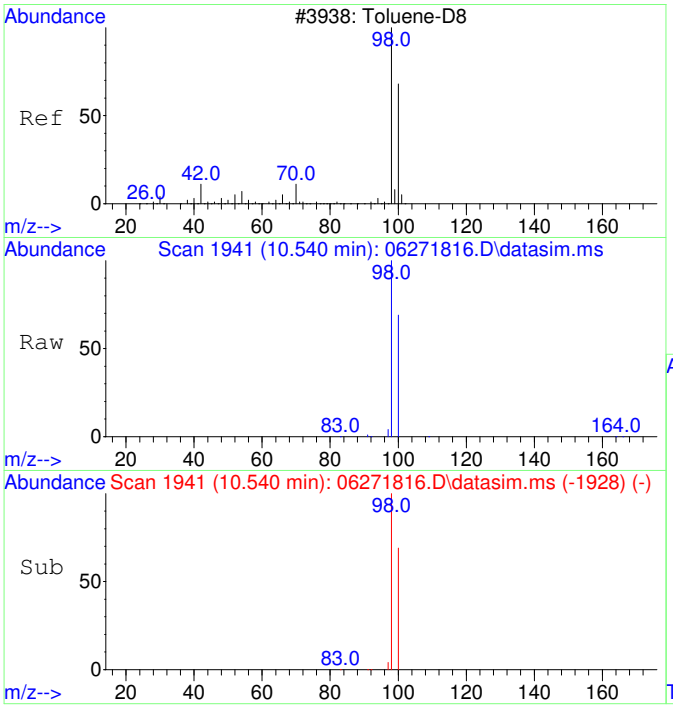


#11
Trichloroethene
Concen: 12038.08 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:130 Resp: 62817

Ion	Ratio	Lower	Upper
130	100		
95	95.6	66.0	126.0
132	98.4	78.8	118.8
97	61.0	41.9	81.9

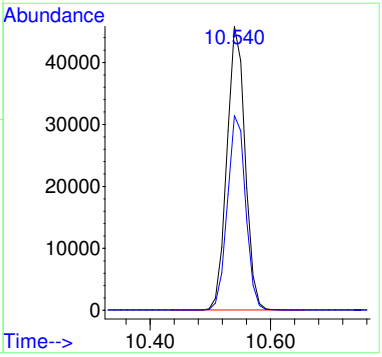


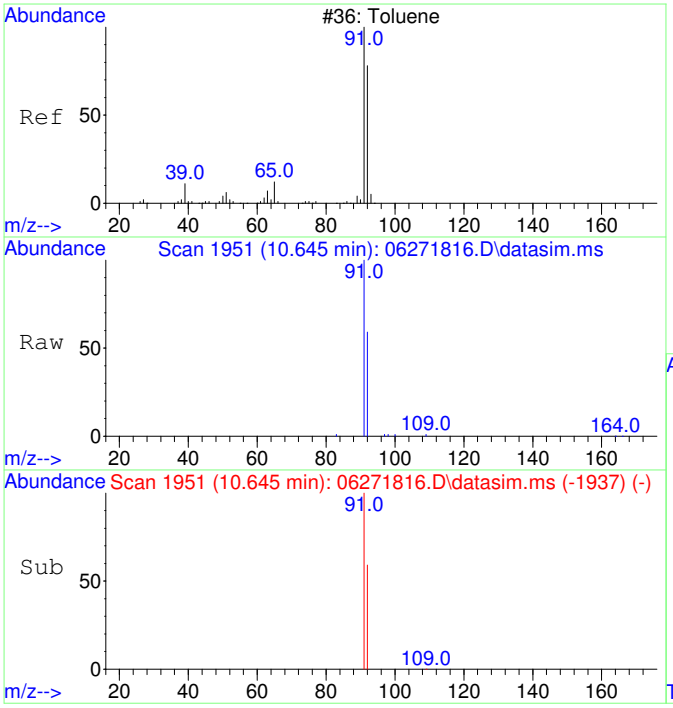


#12
Toluene-d8
Concen: 5028.02 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 98 Resp: 96575

Ion	Ratio	Lower	Upper
98	100		
100	68.8	38.7	98.7

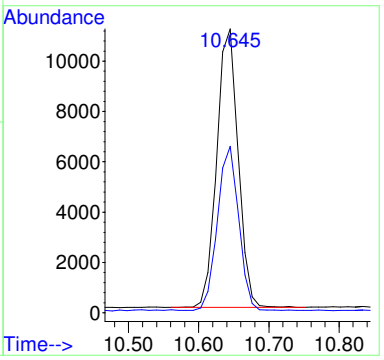


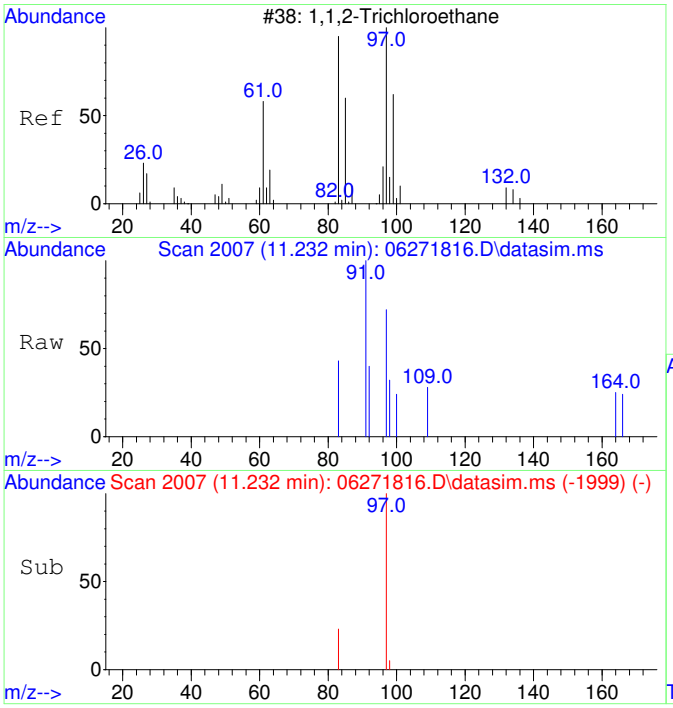


#13
Toluene
Concen: 908.98 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 91 Resp: 23409

Ion	Ratio	Lower	Upper
91	100		
92	58.5	30.0	90.0

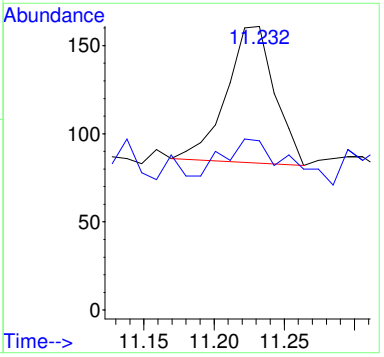


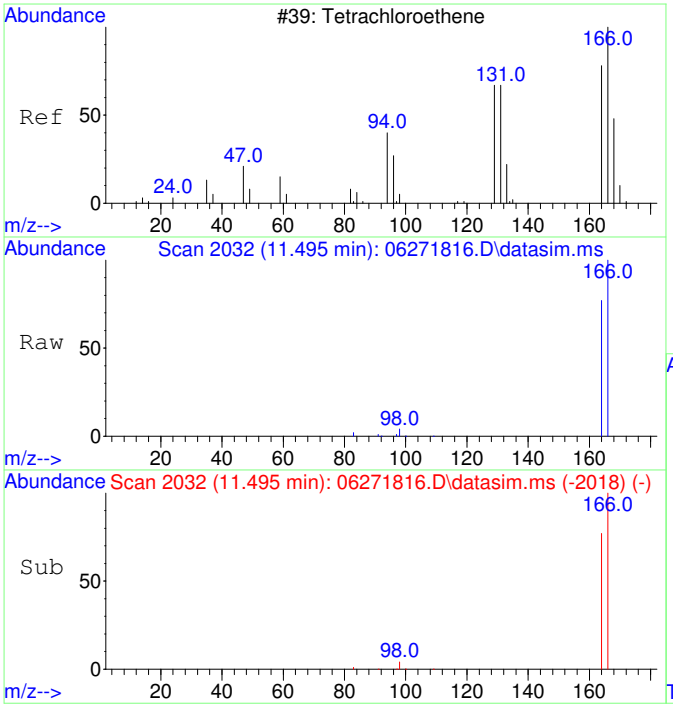


#14
1,1,2-Trichloroethane
Concen: 34.57 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. -0.063 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 97 Resp: 184

Ion	Ratio	Lower	Upper
97	100		
83	44.6	53.4	113.4#

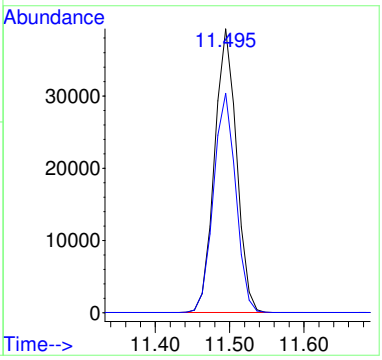


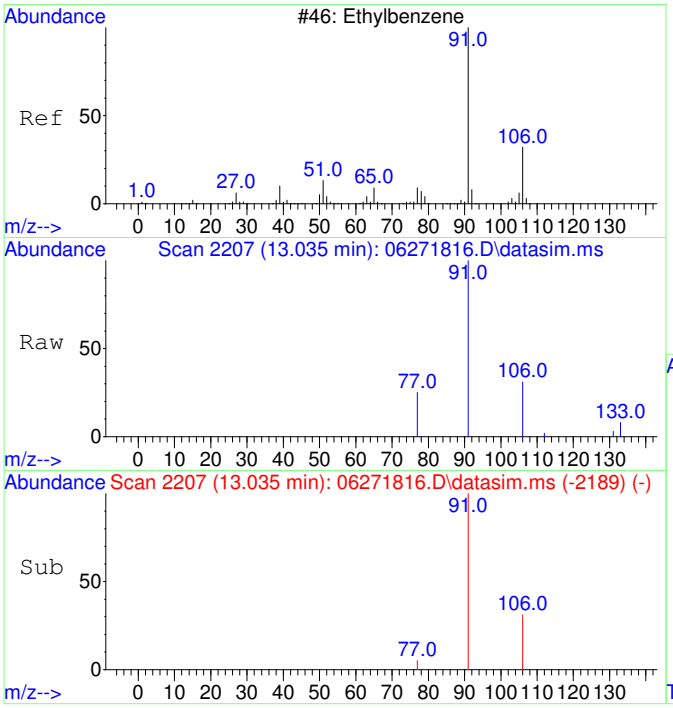


#15
Tetrachloroethene
Concen: 11052.87 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:166 Resp: 80197

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

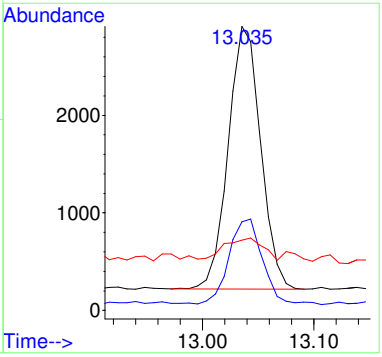


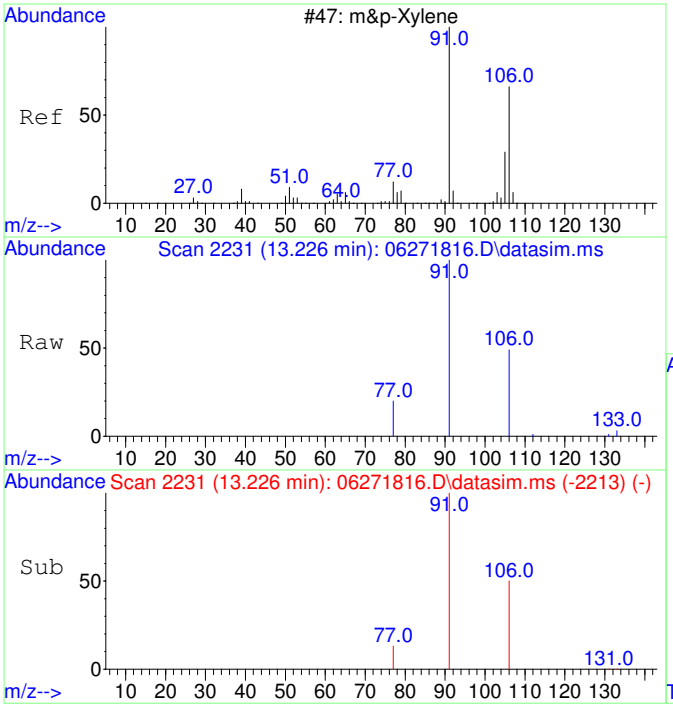


#18
Ethylbenzene
Concen: 176.57 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 91 Resp: 5457

Ion	Ratio	Lower	Upper
91	100		
106	33.8	2.8	62.8
77	10.0	0.0	38.6

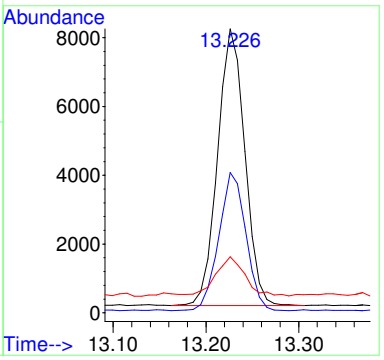


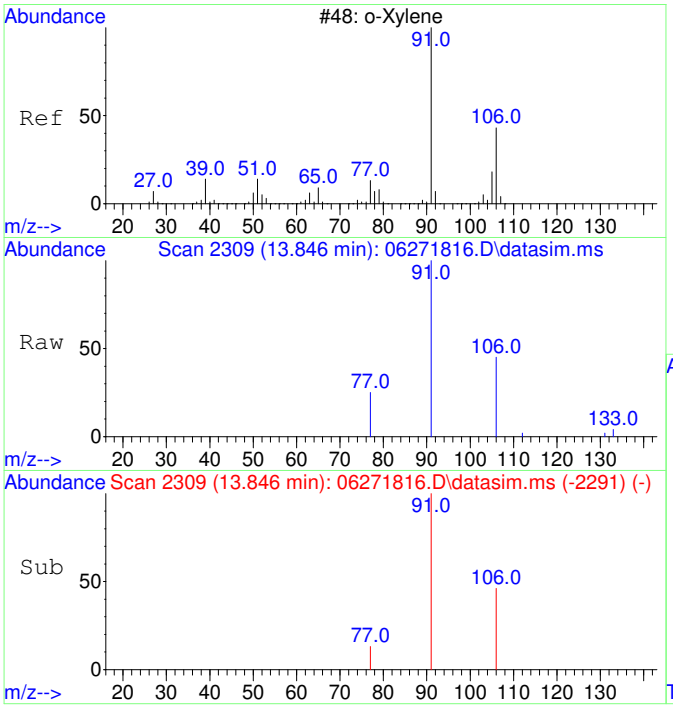


#19
m&p-Xylene
Concen: 688.52 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 91 Resp: 16423

Ion	Ratio	Lower	Upper
91	100		
106	49.5	21.2	81.2
77	15.2	0.0	42.9

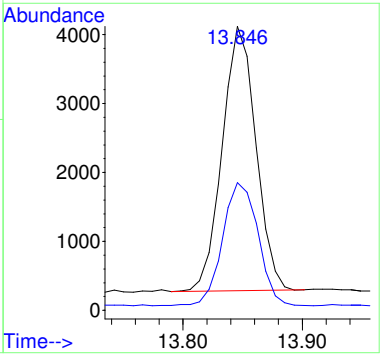


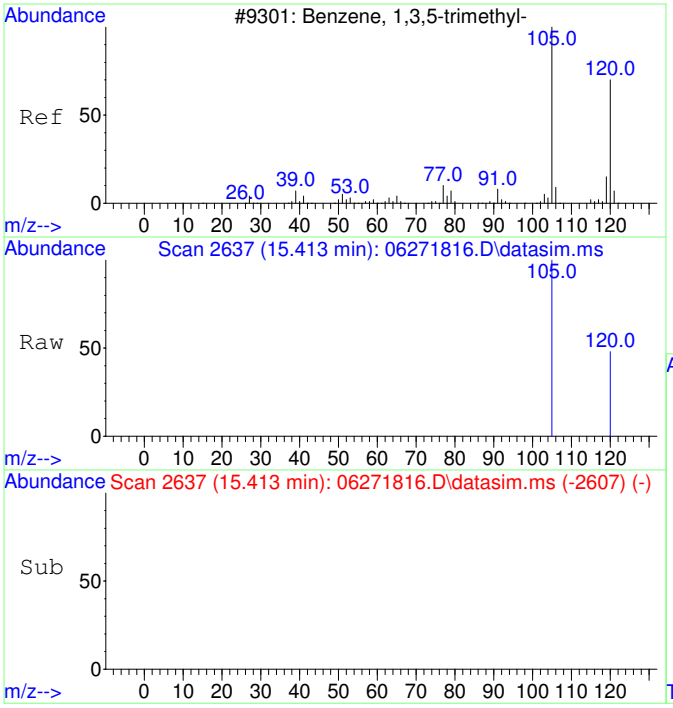


#20
o-Xylene
Concen: 297.60 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 91 Resp: 7518

Ion	Ratio	Lower	Upper
91	100		
106	49.0	18.3	78.3

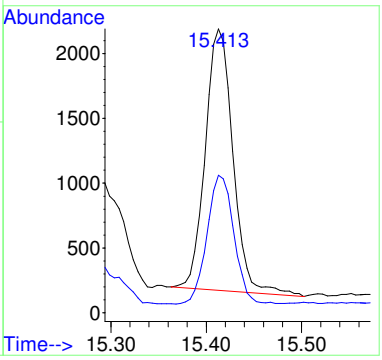


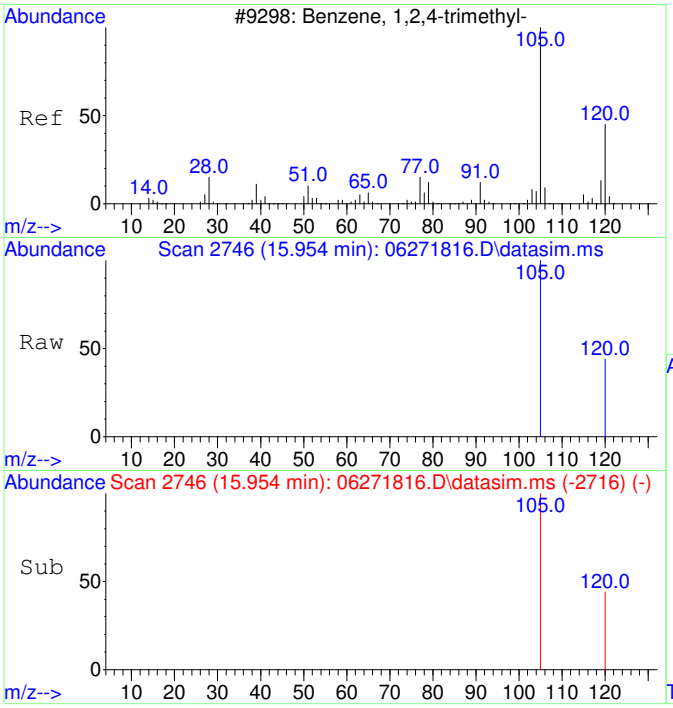


#22
1,3,5-Trimethylbenzene
Concen: 141.94 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.001 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:105 Resp: 4057

Ion	Ratio	Lower	Upper
105	100		
120	47.6	19.1	79.1

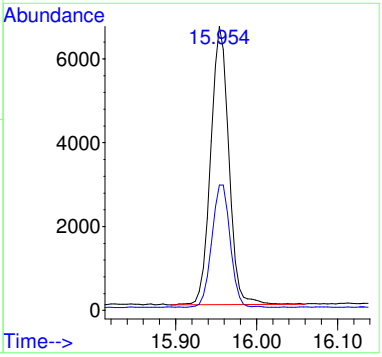


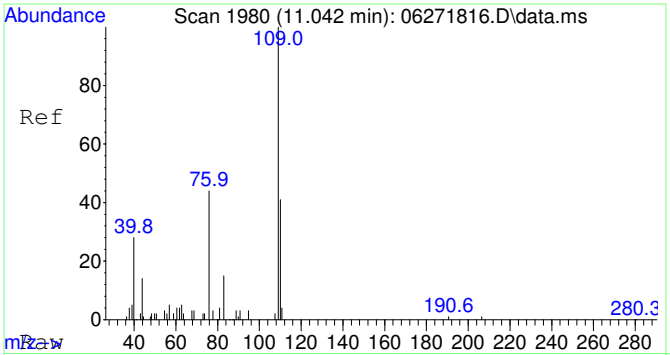


#23
1,2,4-Trimethylbenzene
Concen: 361.51 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:105 Resp: 10336

Ion	Ratio	Lower	Upper
105	100		
120	44.7	15.5	75.5

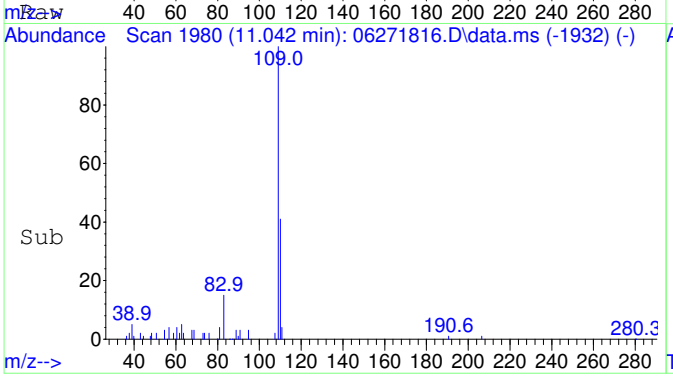


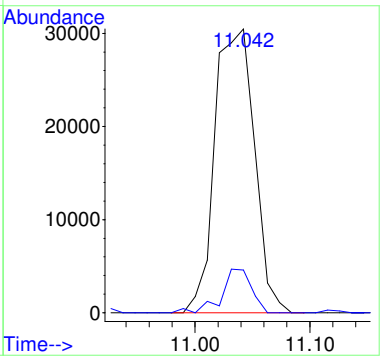


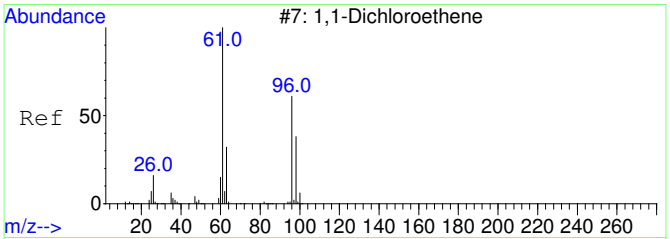
#25
2-Fluorotoluene SCAN
Concen: 5308.77 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:109 Resp: 73151

Ion	Ratio	Lower	Upper
109	100		
83	11.7	0.0	45.7



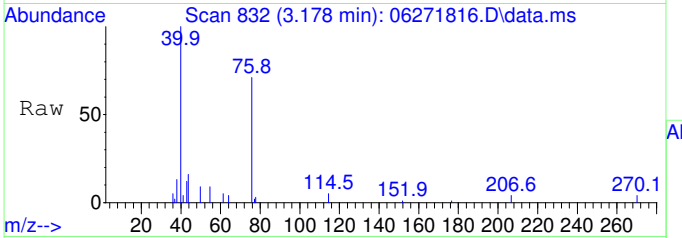


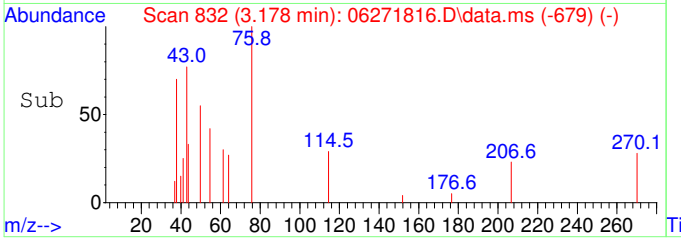


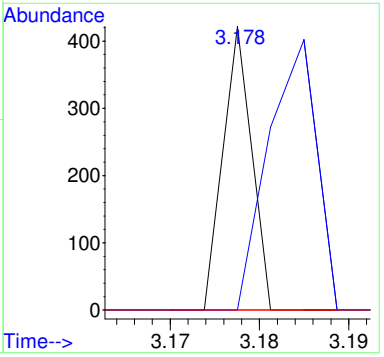
#26
1,1-Dichloroethene SCAN
Concen: 27.34 ug/L
RT: 3.178 min Scan# 832
Delta R.T. 0.067 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

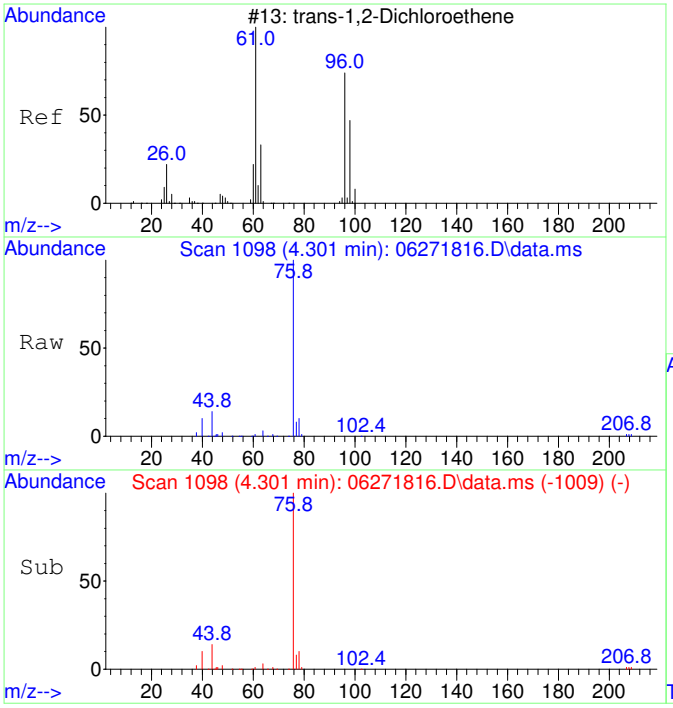
Tgt Ion: 61 Resp: 94

Ion	Ratio	Lower	Upper
61	100		
96	159.6	23.8	83.8#
98	0.0	8.8	68.8#





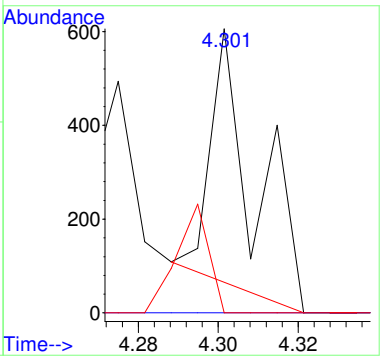


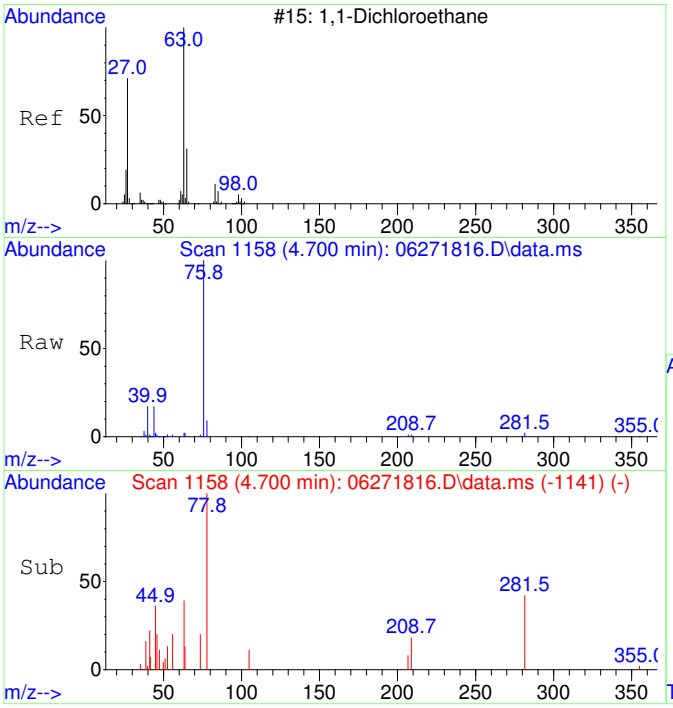


#27
trans-1,2-Dichloroethene SCAN
Concen: 98.18 ug/L
RT: 4.301 min Scan# 1098
Delta R.T. -0.033 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 61 Resp: 393

Ion	Ratio	Lower	Upper
61	100		
96	0.0	37.9	97.9#
98	33.1	12.7	72.7

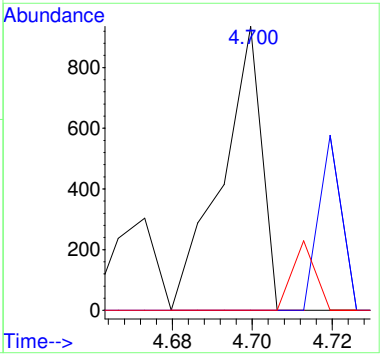


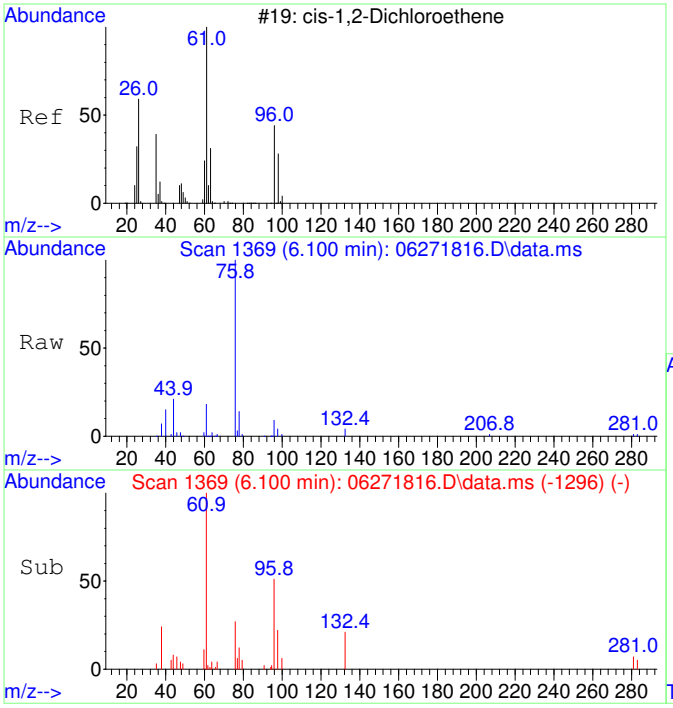


#28
1,1-Dichloroethane SCAN
Concen: 128.23 ug/L
RT: 4.700 min Scan# 1158
Delta R.T. -0.385 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 63 Resp: 653

Ion	Ratio	Lower	Upper
63	100		
65	35.2	7.5	67.5
83	13.9	0.0	34.3

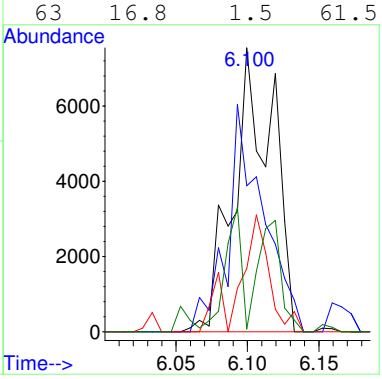


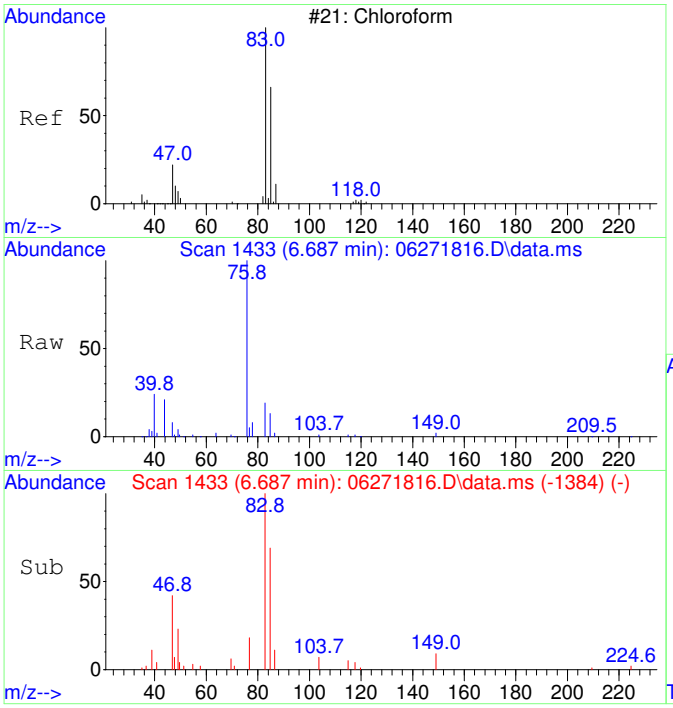


#29
cis-1,2-Dichloroethene SCAN
Concen: 3298.43 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 61 Resp: 14527

Ion	Ratio	Lower	Upper
61	100		
96	72.4	28.2	88.2
98	25.8	14.1	74.1
63	16.8	1.5	61.5

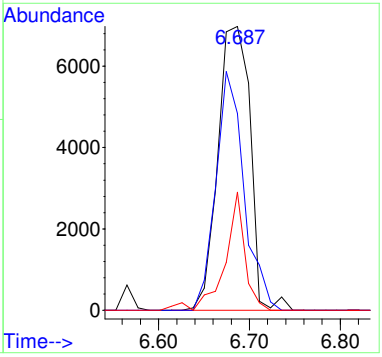


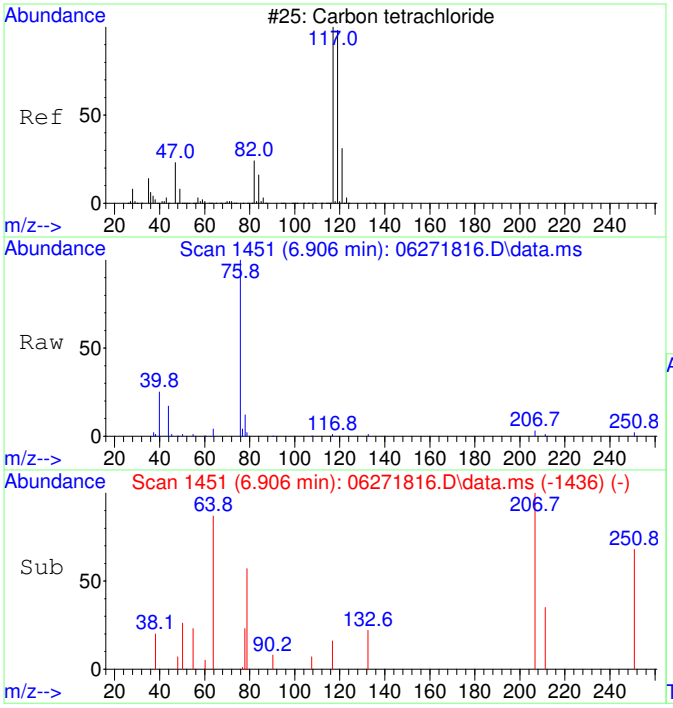


#30
Chloroform SCAN
Concen: 3181.90 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. -0.012 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 83 Resp: 17201

Ion	Ratio	Lower	Upper
83	100		
85	73.7	32.6	92.6
47	25.7	0.0	57.9

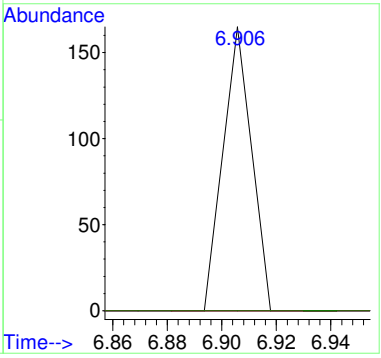


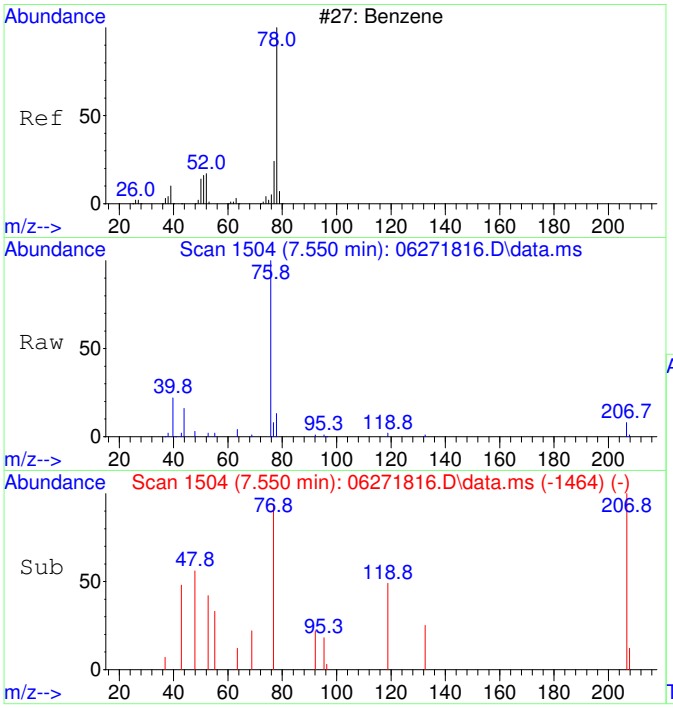


#32
Carbon tetrachloride SCAN
Concen: 25.31 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.316 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:117 Resp: 120

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#

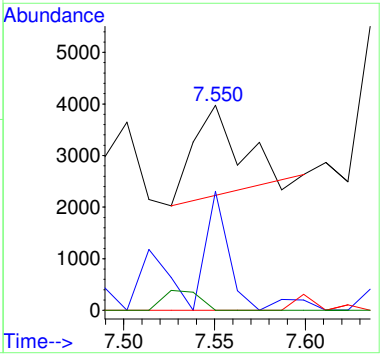


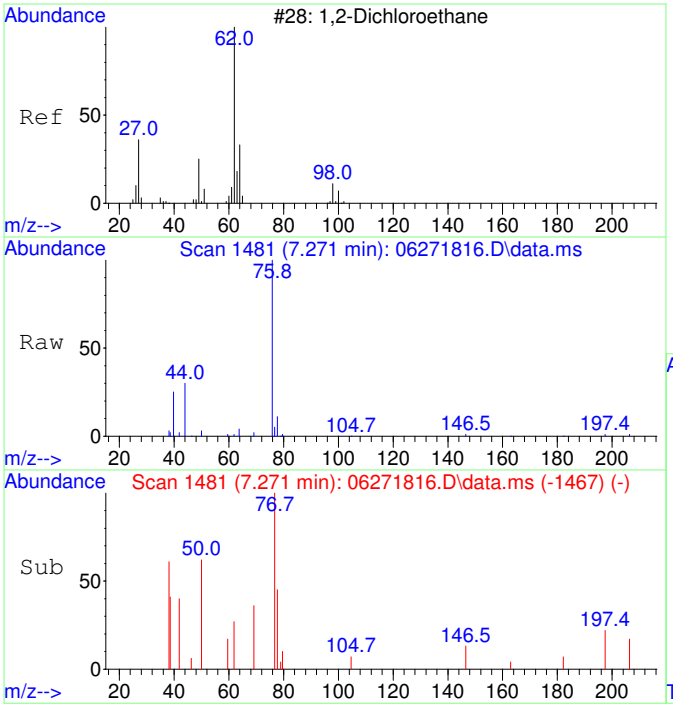


#33
Benzene SCAN
Concen: 218.60 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.012 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 78 Resp: 3137

Ion	Ratio	Lower	Upper
78	100		
77	114.2	3.0	63.0#
51	0.0	0.0	56.4
52	0.0	0.0	48.0

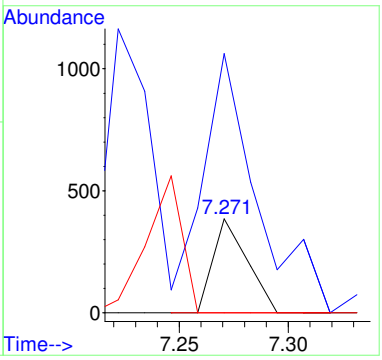


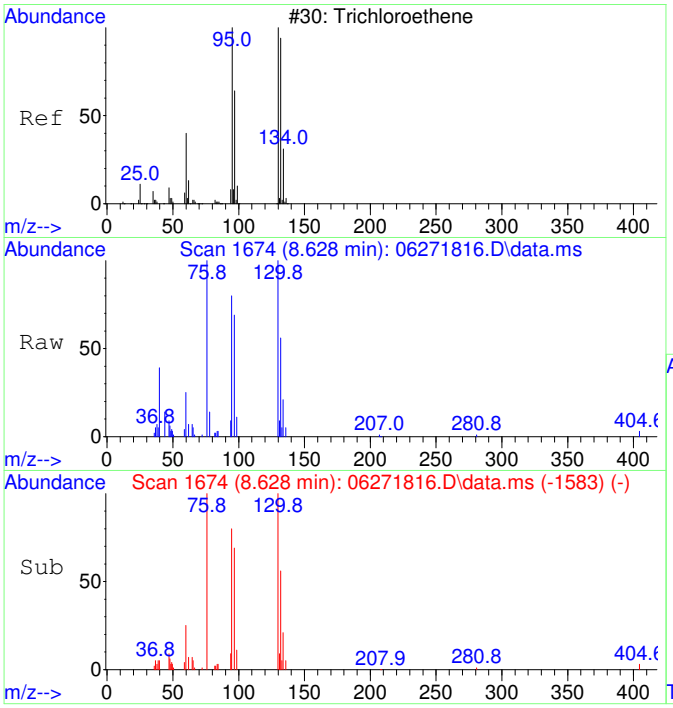


#34
1,2-Dichloroethane SCAN
Concen: 86.02 ug/L
RT: 7.271 min Scan# 1481
Delta R.T. -0.328 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 62 Resp: 421

Ion	Ratio	Lower	Upper
62	100		
64	385.3	1.2	61.2#
49	0.0	10.4	70.4#

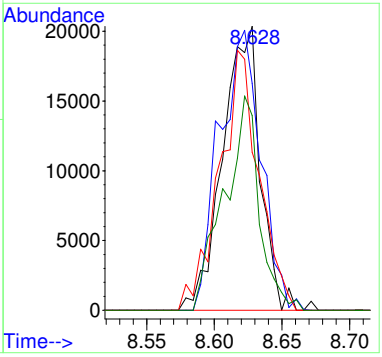


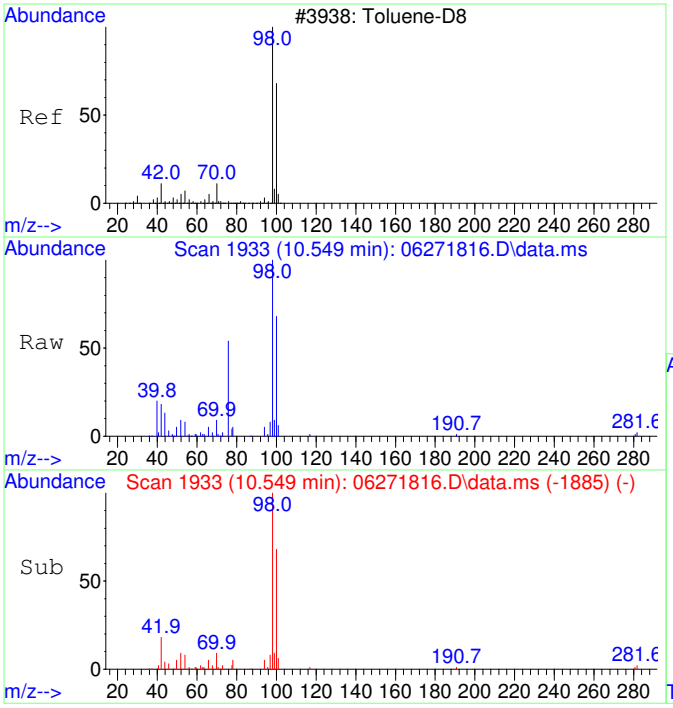


#35
Trichloroethene SCAN
Concen: 11223.75 ug/L
RT: 8.628 min Scan# 1674
Delta R.T. -0.005 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:130 Resp: 39414

Ion	Ratio	Lower	Upper
130	100		
95	108.5	70.5	130.5
132	95.6	63.8	123.8
97	70.2	34.8	94.8

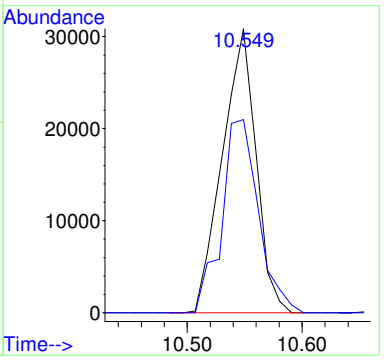


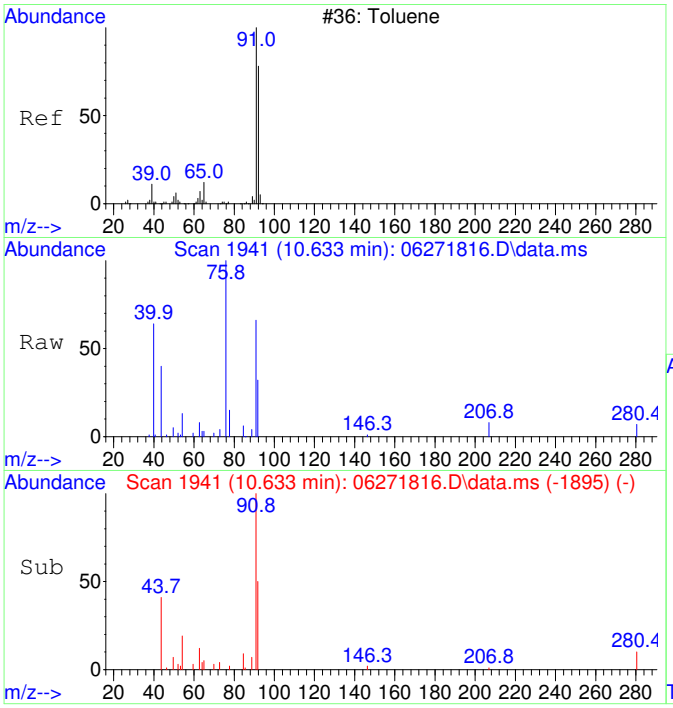


#36
Toluene-d8 SCAN
Concen: 5056.75 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 98 Resp: 62989

Ion	Ratio	Lower	Upper
98	100		
100	74.1	39.5	99.5

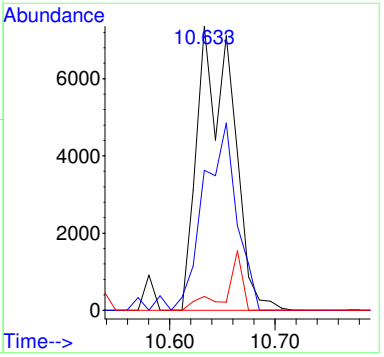


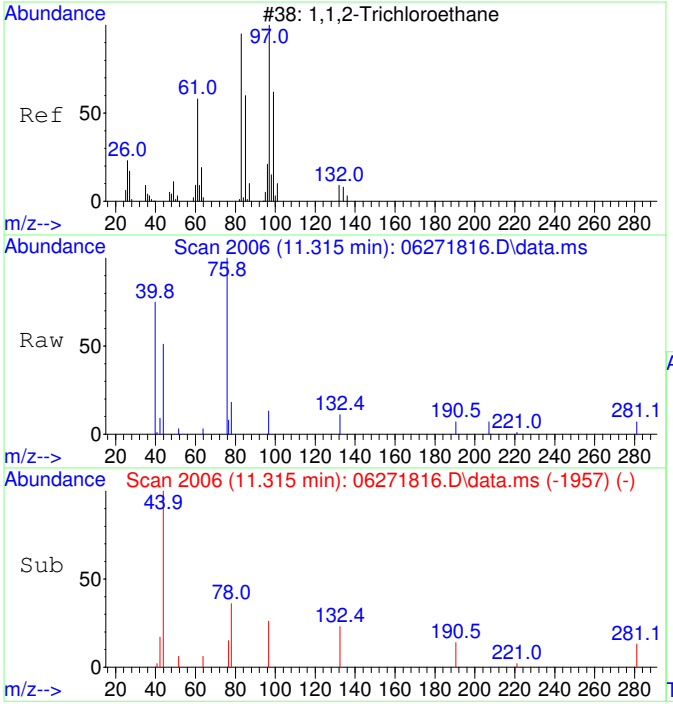


#37
Toluene SCAN
Concen: 1087.75 ug/L
RT: 10.633 min Scan# 1941
Delta R.T. -0.021 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 91 Resp: 17308

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

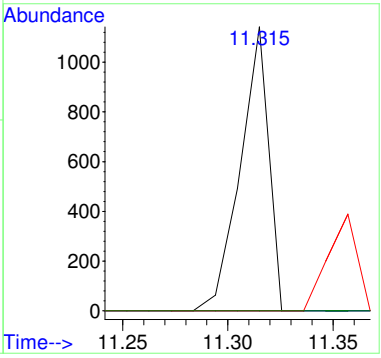


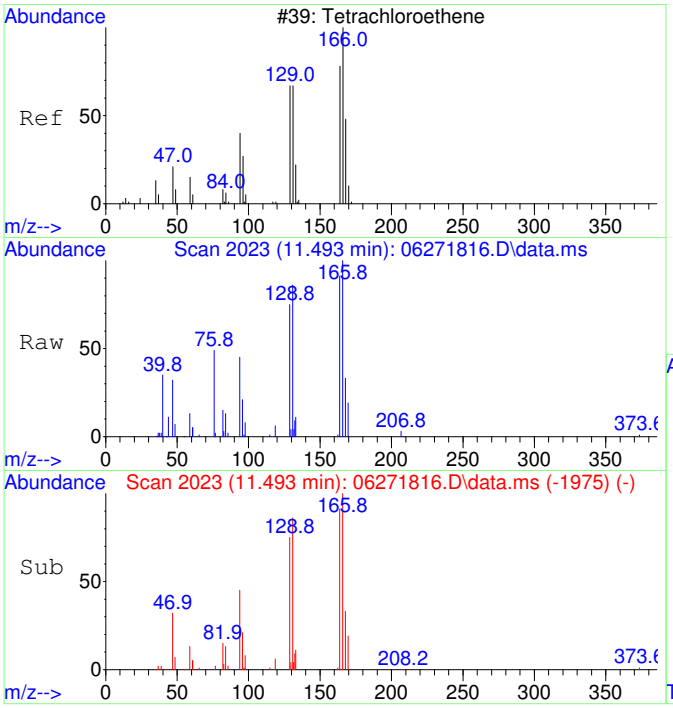


#38
1,1,2-Trichloroethane SCAN
Concen: 350.60 ug/L
RT: 11.315 min Scan# 2006
Delta R.T. 0.010 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 97 Resp: 1069

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#

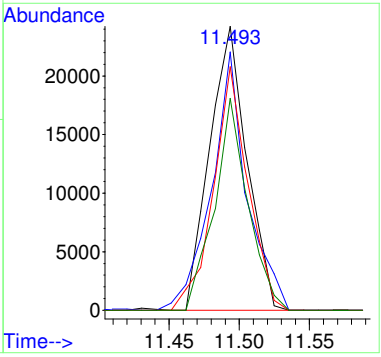


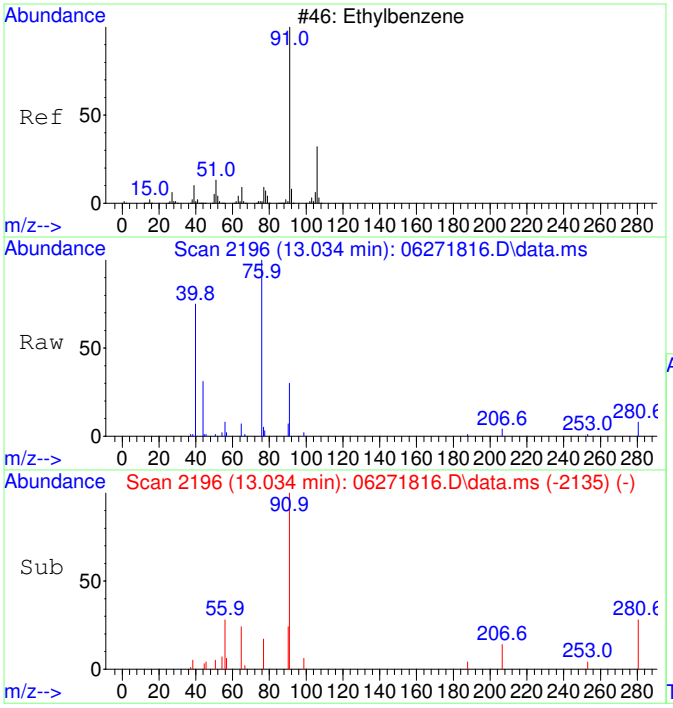


#39
Tetrachloroethene SCAN
Concen: 12855.82 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:166 Resp: 44888

Ion	Ratio	Lower	Upper
166	100		
164	86.3	43.3	103.3
131	79.5	35.6	95.6
129	67.1	36.6	96.6

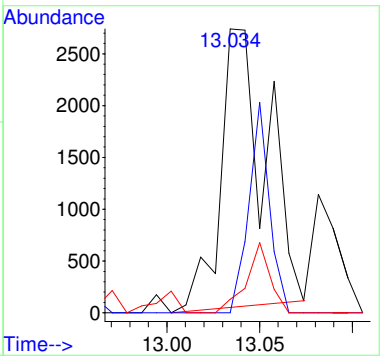


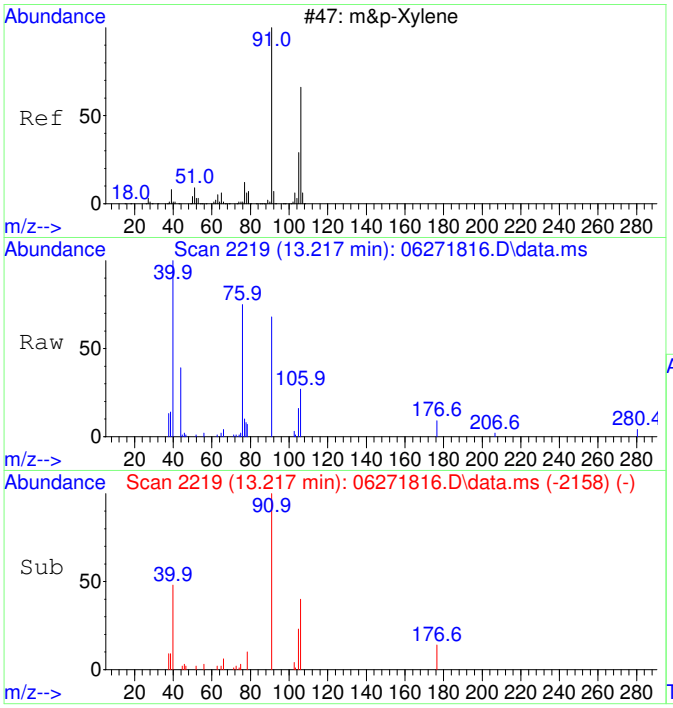


#42
Ethylbenzene SCAN
Concen: 249.36 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.016 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 91 Resp: 4612

Ion	Ratio	Lower	Upper
91	100		
106	34.2	3.2	63.2
51	13.2	0.0	40.1

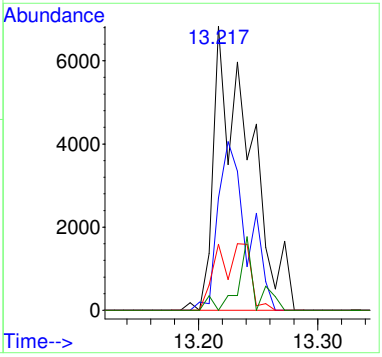


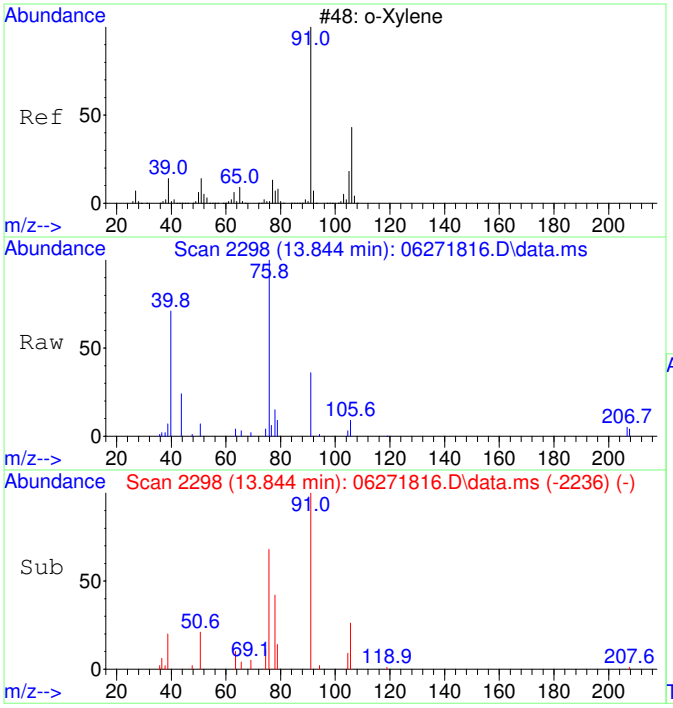


#43
m&p-Xylene SCAN
Concen: 550.07 ug/L
RT: 13.217 min Scan# 2219
Delta R.T. -0.016 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 91 Resp: 14122

Ion	Ratio	Lower	Upper
91	100		
106	49.1	20.1	80.1
105	0.0	0.0	51.1
51	0.0	0.0	40.7

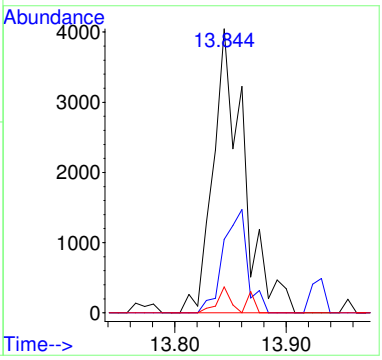


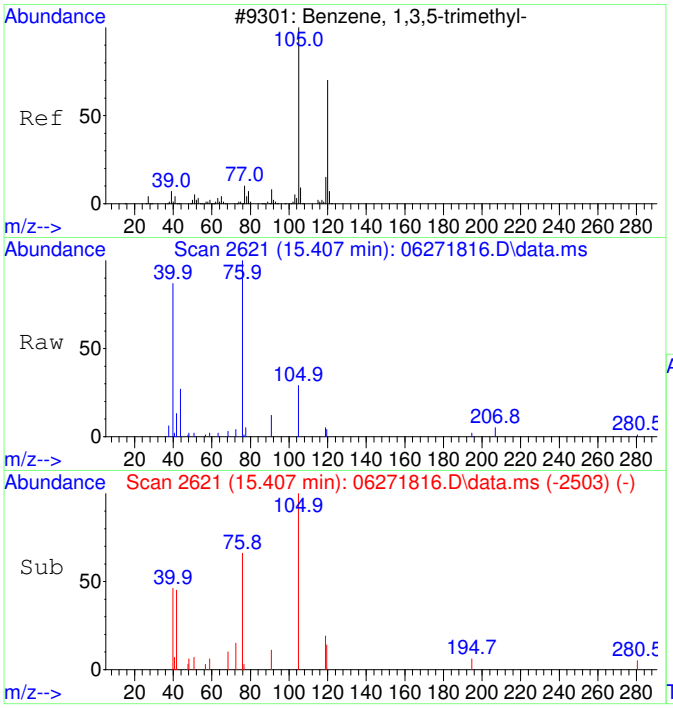


#44
o-Xylene SCAN
Concen: 531.48 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion: 91 Resp: 7766

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	4.0	0.0	55.2

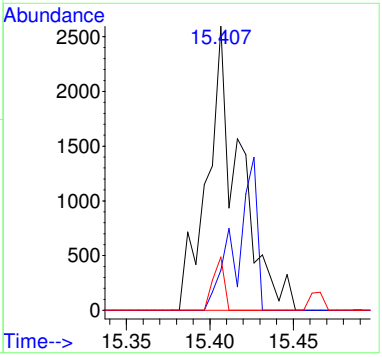


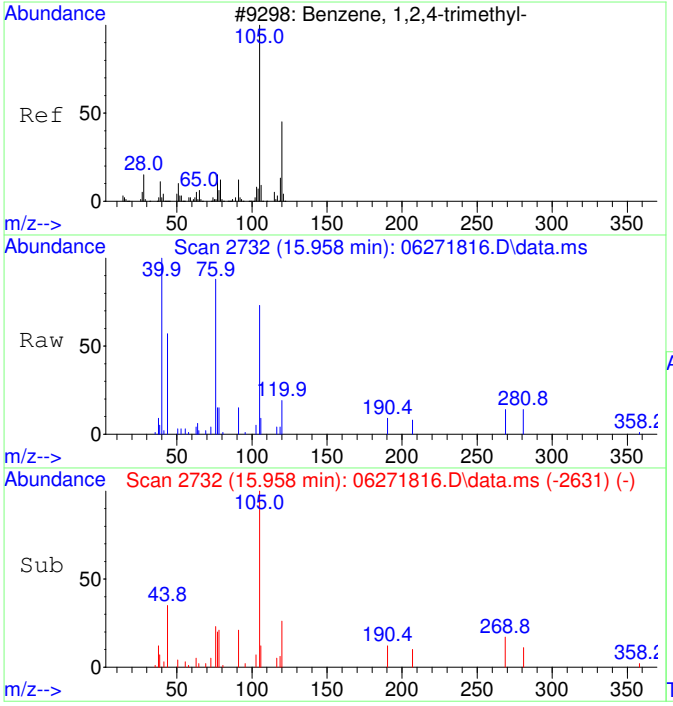


#46
1,3,5-Trimethylbenzene SCAN
Concen: 242.13 ug/L
RT: 15.407 min Scan# 2621
Delta R.T. -0.006 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:105 Resp: 3508

Ion	Ratio	Lower	Upper
105	100		
120	33.6	16.8	76.8
119	6.5	0.0	41.5

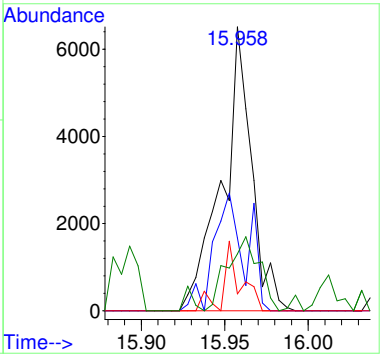




#47
1,2,4-Trimethylbenzene SCAN
Concen: 535.63 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.003 min
Lab File: 06271816.D
Acq: 27 Jun 2018 15:30

Tgt Ion:105 Resp: 7953

Ion	Ratio	Lower	Upper
105	100		
120	45.0	15.4	75.4
119	14.3	0.0	41.7
77	28.7	0.0	42.0



1806075-02RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271817.D
Acq On : 27 Jun 2018 15:54
InstName : AG5975C
Operator : TD
Sample : 1806075-02RE1
Misc : 10X DL, 450 uL-50 uL
ALS Vial : 17 Sample Multiplier: 10

Quant Time: Jun 28 07:06:26 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

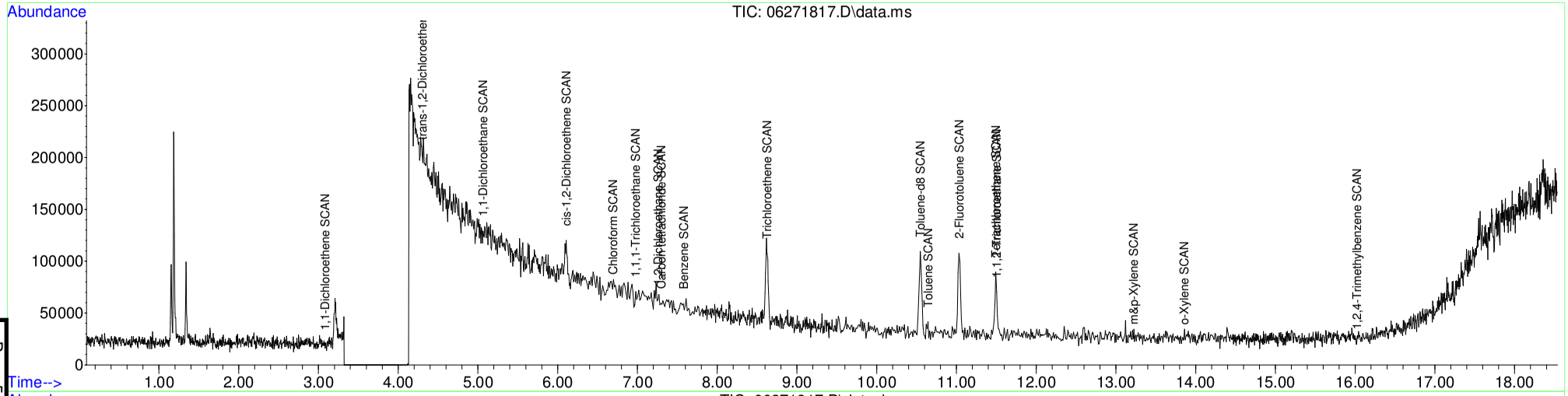
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	108103	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	88588	5045.11 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.90%		
Target Compounds					Qvalue
3] trans-1,2-Dichloroethene	4.310	61	1761	364.30 ug/L	98
5] cis-1,2-Dichloroethene	6.101	61	25287	4260.41 ug/L	100
6] Chloroform	6.676	83	7911	1237.85 ug/L	99
9] Benzene	7.552	78	455	26.21 ug/L #	1
11] Trichloroethene	8.618	130	45797	9600.20 ug/L	99
13] Toluene	10.645	91	660	28.03 ug/L	82
15] Tetrachloroethene	11.495	166	31455	4742.09 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	71635	5686.72 ug/L	99
26) 1,1-Dichloroethene SCAN	3.077	61	74	23.54 ug/L #	30
27) trans-1,2-Dichloroethe...	4.302	61	1421	388.31 ug/L #	64
28) 1,1-Dichloroethane SCAN	5.065	63	158	33.94 ug/L #	68
29) cis-1,2-Dichloroethene...	6.106	61	18282	4540.66 ug/L	79
30) Chloroform SCAN	6.687	83	4599	930.59 ug/L #	73
31) 1,1,1-Trichloroethane ...	6.979	97	147	33.41 ug/L #	26
32) Carbon tetrachloride SCAN	7.295	117	227	52.37 ug/L #	1
33) Benzene SCAN	7.575	78	4258	324.57 ug/L #	33
34) 1,2-Dichloroethane SCAN	7.259	62	102	22.80 ug/L #	39
35) Trichloroethene SCAN	8.623	130	27532	8576.07 ug/L	91
36) Toluene-d8 SCAN	10.549	98	60755	5335.22 ug/L	98
37) Toluene SCAN	10.644	91	1171	80.50 ug/L #	32
38) 1,1,2-Trichloroethane ...	11.504	97	595	213.46 ug/L #	9
39) Tetrachloroethene SCAN	11.494	166	20845	6530.33 ug/L	92
43) m&p-Xylene SCAN	13.217	91	1233	52.54 ug/L #	44
44) o-Xylene SCAN	13.852	91	1699	127.19 ug/L #	34
47) 1,2,4-Trimethylbenzene...	16.019	105	349	25.71 ug/L #	32

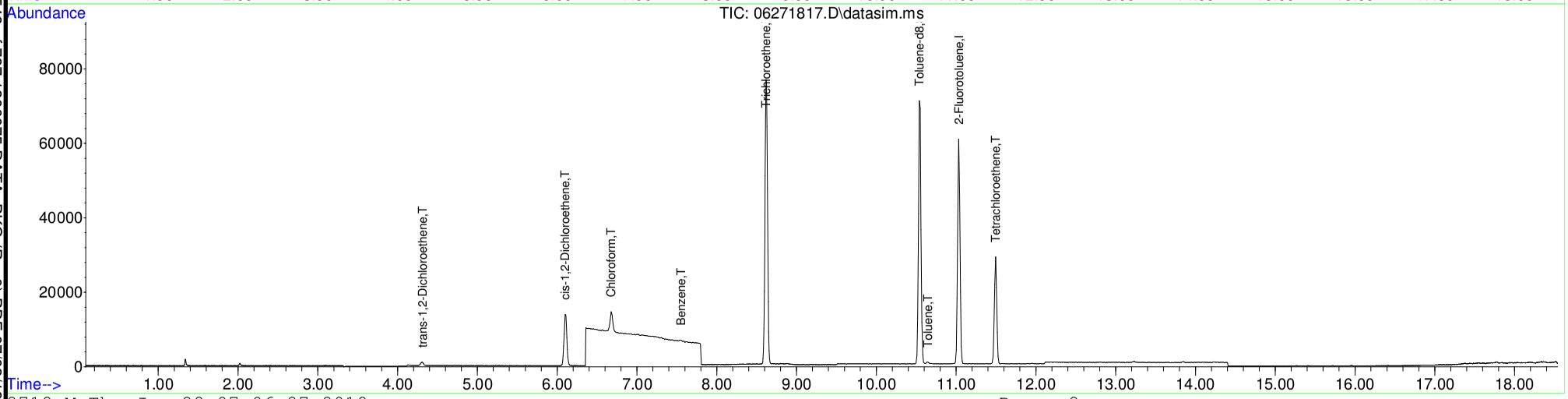
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271817.D
Acq On : 27 Jun 2018 15:54
InstName : AG5975C
Operator : TD
Sample : 1806075-02RE1
Misc : 10X DL, 450 uL-50 uL
ALS Vial : 17 Sample Multiplier: 10

Quant Time: Jun 28 07:06:26 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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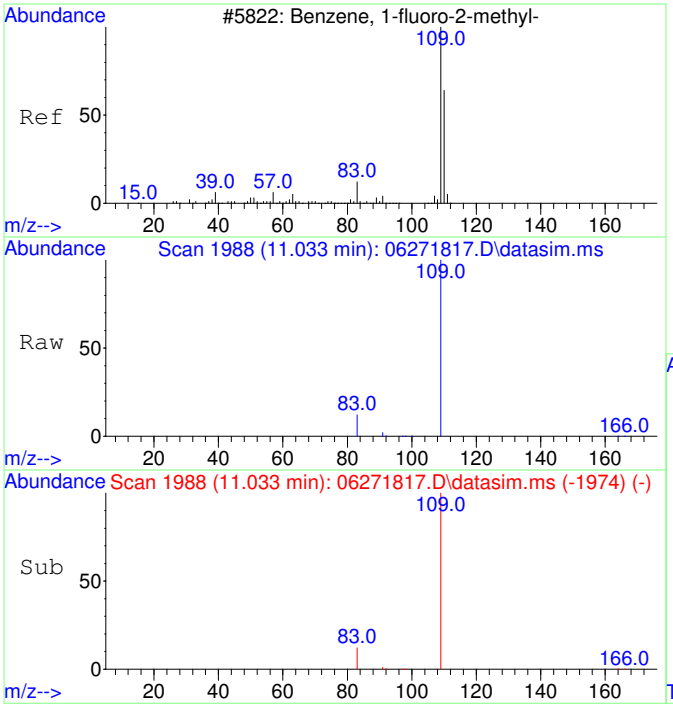
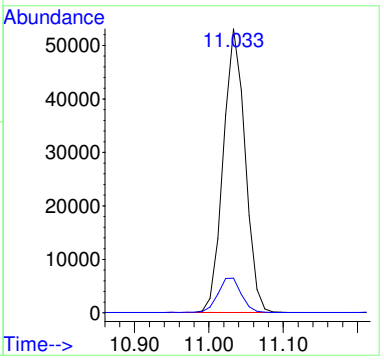
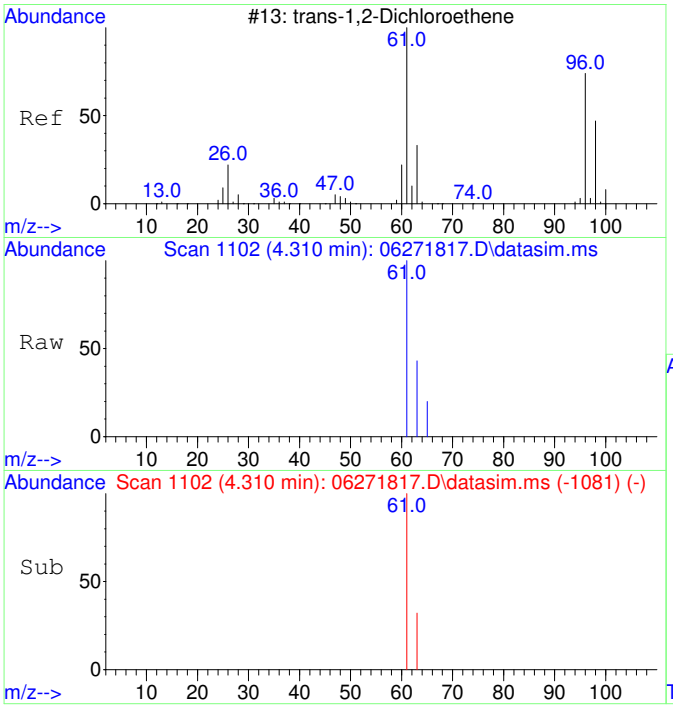


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion:109 Resp: 108103

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	44.7

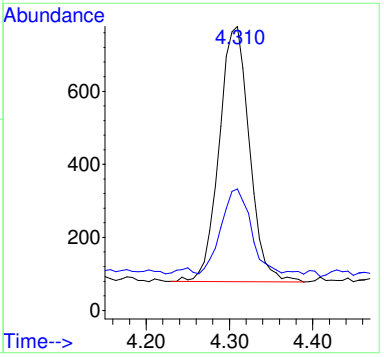


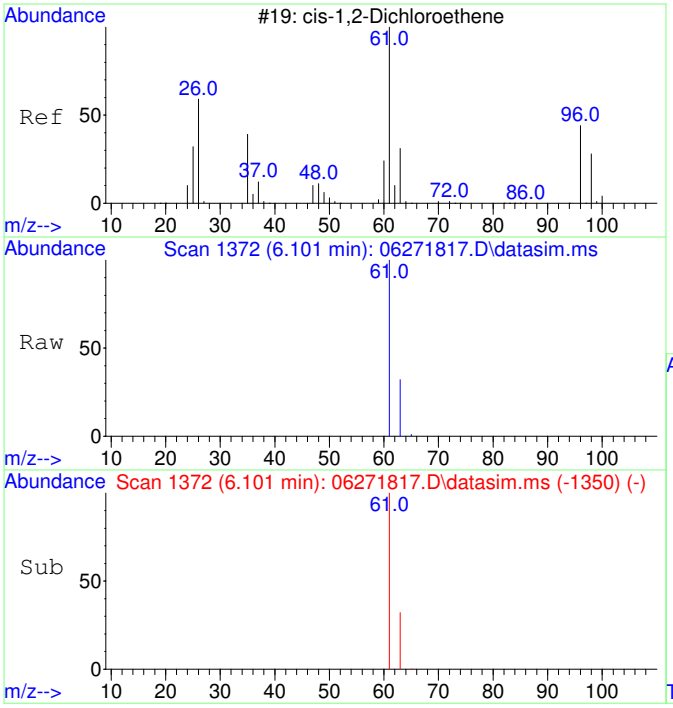


#3
trans-1,2-Dichloroethene
Concen: 364.30 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 61 Resp: 1761

Ion	Ratio	Lower	Upper
61	100		
63	33.4	2.0	62.0

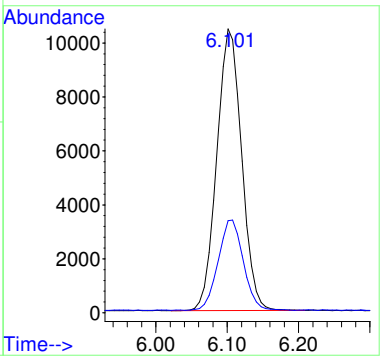


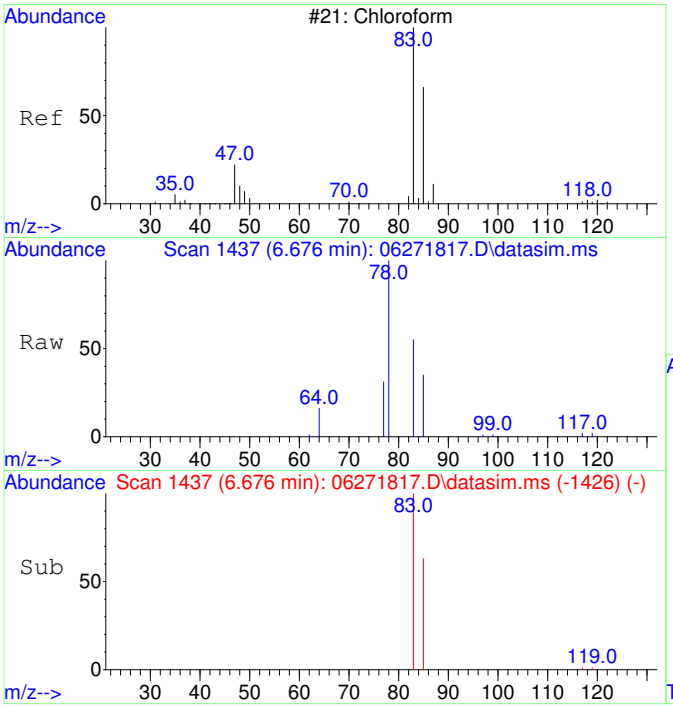


#5
cis-1,2-Dichloroethene
Concen: 4260.41 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 61 Resp: 25287

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.2	62.2

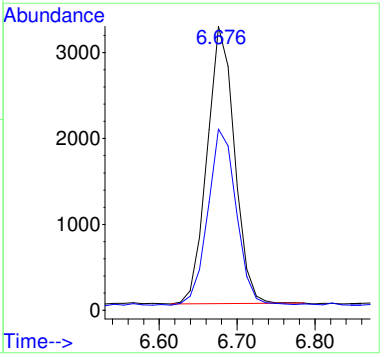


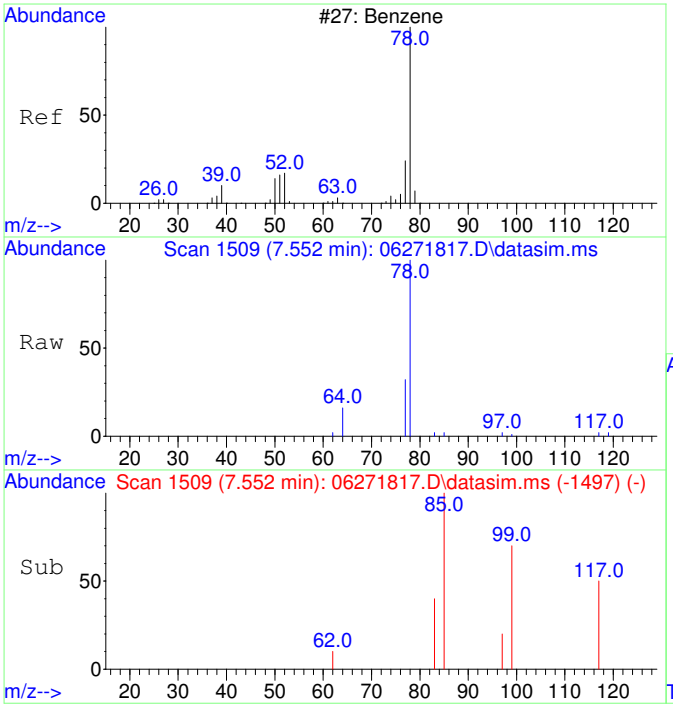


#6
Chloroform
Concen: 1237.85 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 83 Resp: 7911

Ion	Ratio	Lower	Upper
83	100		
85	65.5	34.8	94.8

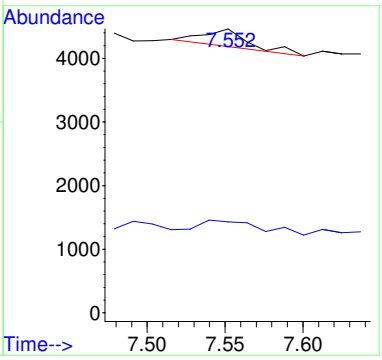


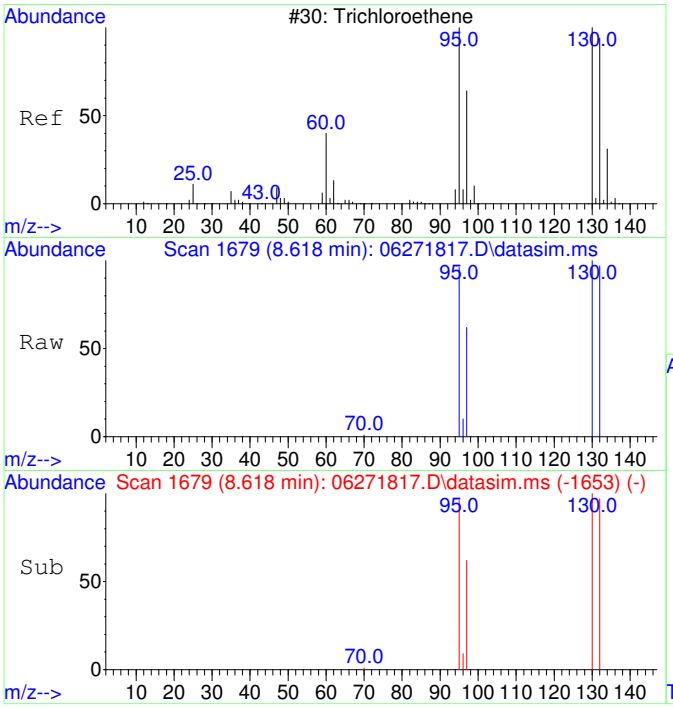


#9
Benzene
Concen: 26.21 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 78 Resp: 455

Ion	Ratio	Lower	Upper
78	100		
77	143.3	0.0	53.0#

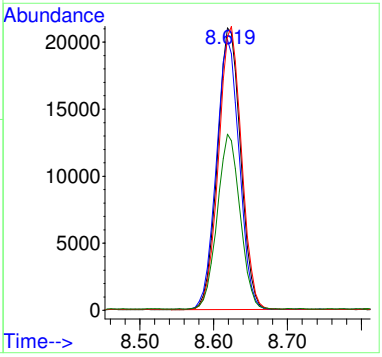


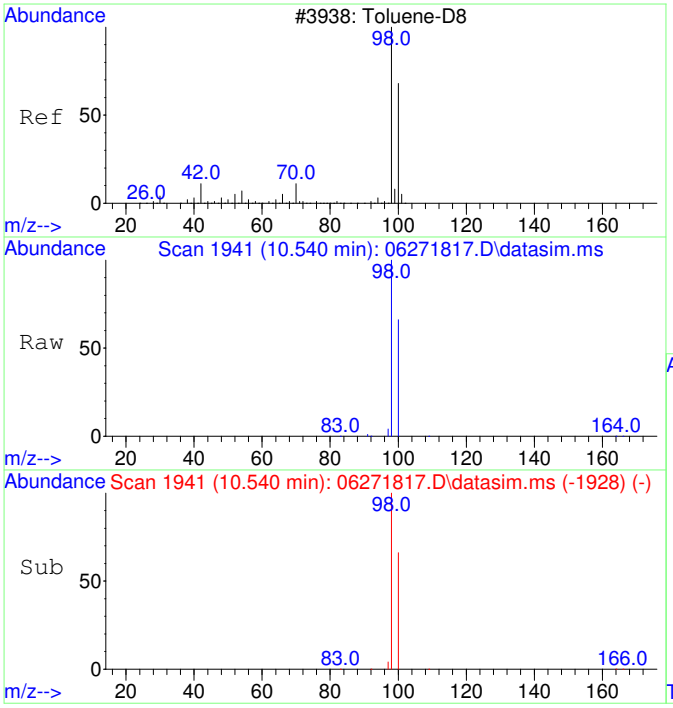


#11
Trichloroethene
Concen: 9600.20 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion:130 Resp: 45797

Ion	Ratio	Lower	Upper
130	100		
95	95.1	66.0	126.0
132	99.0	78.8	118.8
97	61.0	41.9	81.9

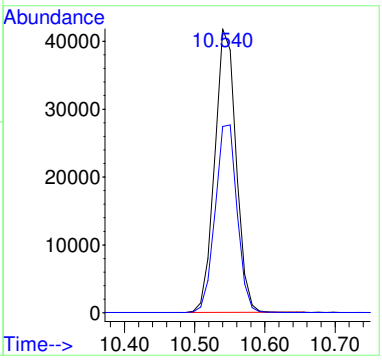


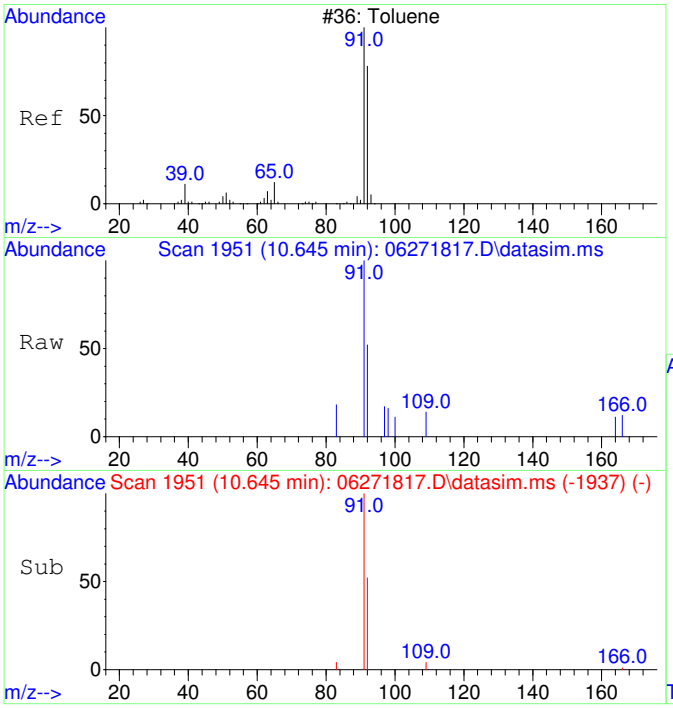


#12
Toluene-d8
Concen: 5045.11 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.010 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 98 Resp: 88588

Ion	Ratio	Lower	Upper
98	100		
100	67.9	38.7	98.7

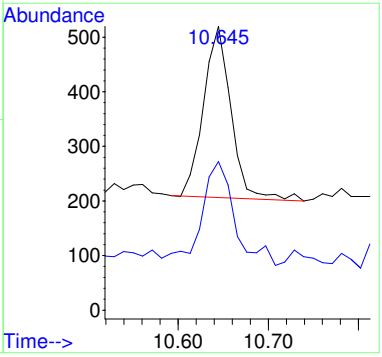


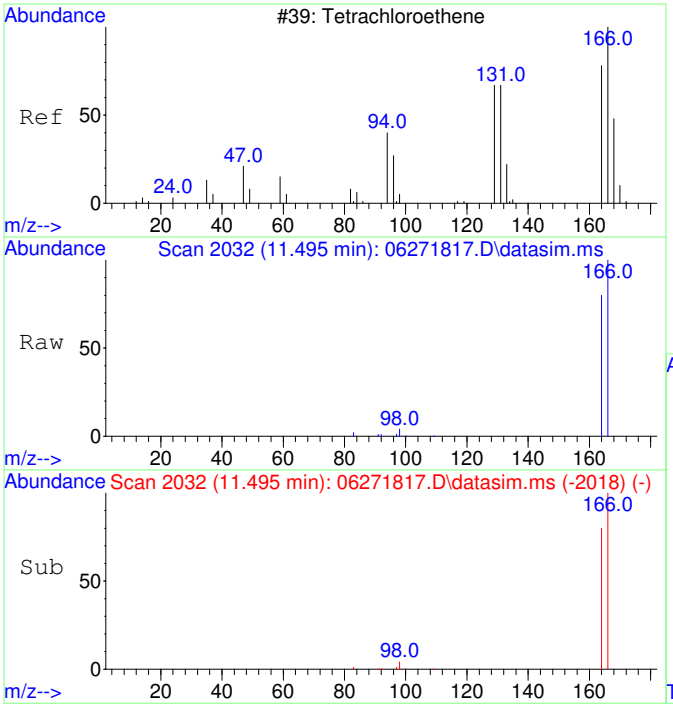


#13
Toluene
Concen: 28.03 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 91 Resp: 660

Ion	Ratio	Lower	Upper
91	100		
92	73.5	30.0	90.0

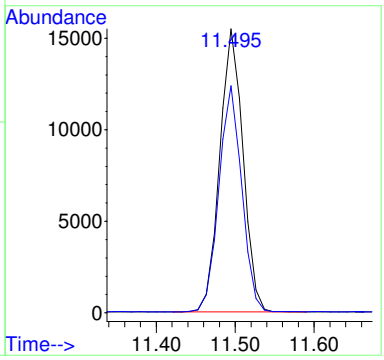


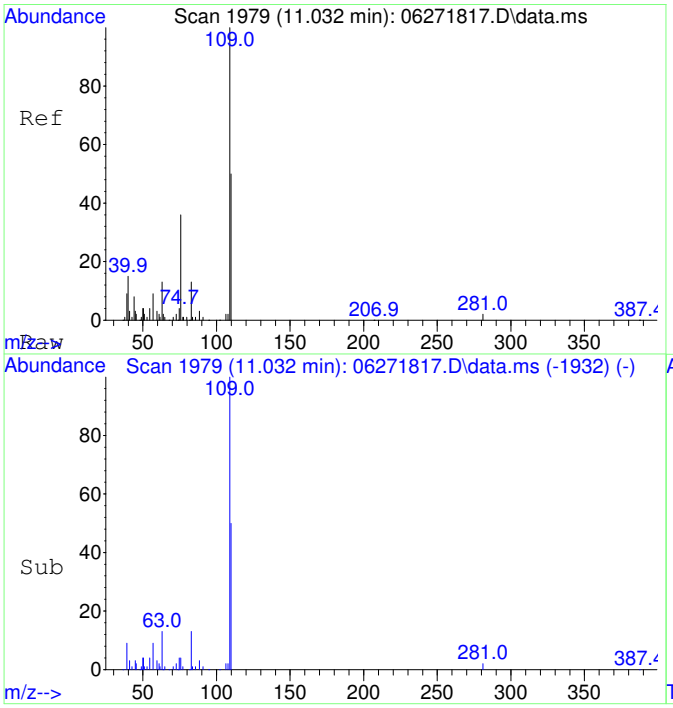


#15
Tetrachloroethene
Concen: 4742.09 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion:166 Resp: 31455

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.8	107.8

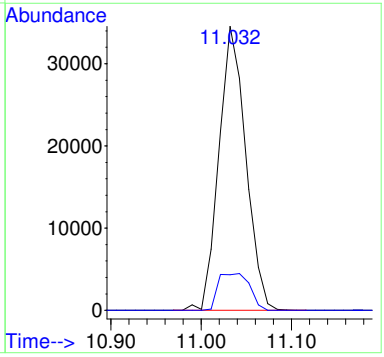


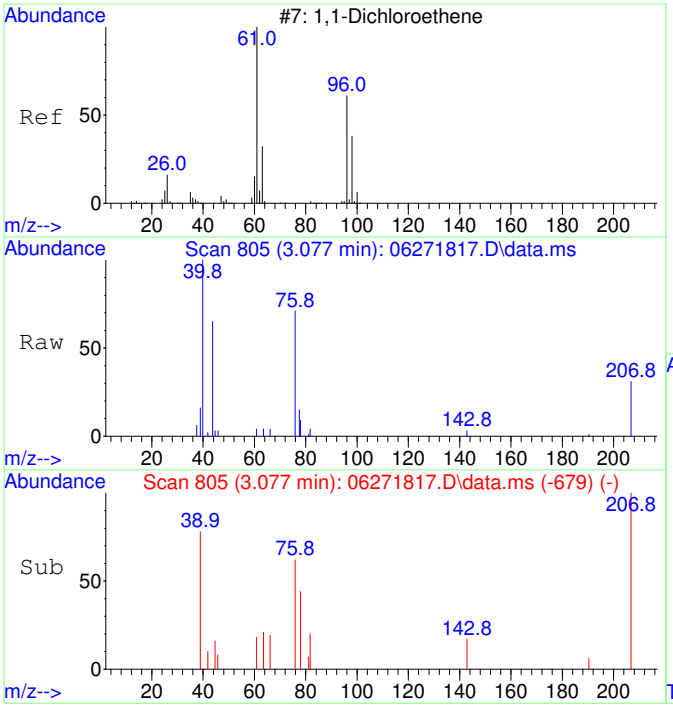


#25
2-Fluorotoluene SCAN
Concen: 5686.72 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.010 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion:109 Resp: 71635

Ion	Ratio	Lower	Upper
109	100		
83	15.3	0.0	45.7

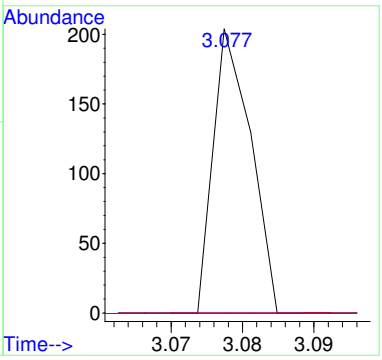


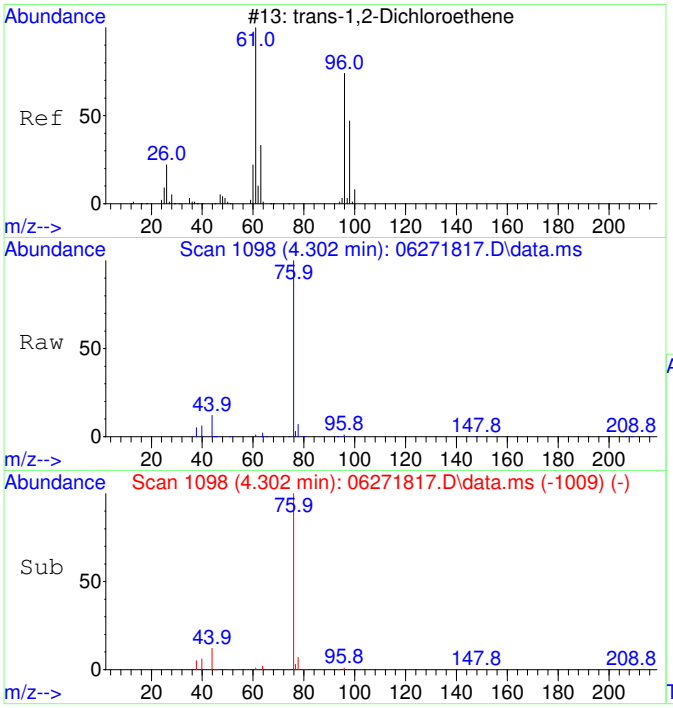


#26
1,1-Dichloroethene SCAN
Concen: 23.54 ug/L
RT: 3.077 min Scan# 805
Delta R.T. -0.033 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 61 Resp: 74

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

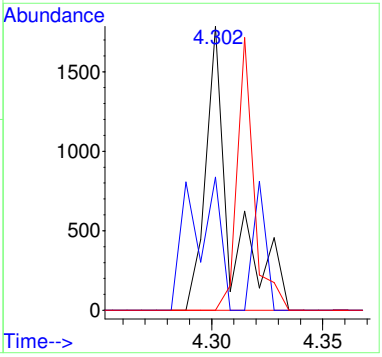


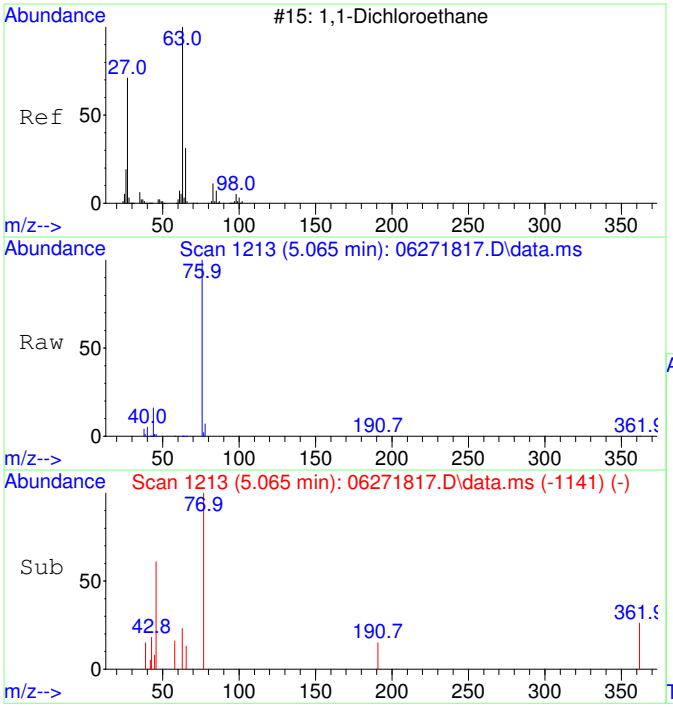


#27
trans-1,2-Dichloroethene SCAN
Concen: 388.31 ug/L
RT: 4.302 min Scan# 1098
Delta R.T. -0.033 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 61 Resp: 1421

Ion	Ratio	Lower	Upper
61	100		
96	54.5	37.9	97.9
98	0.0	12.7	72.7#

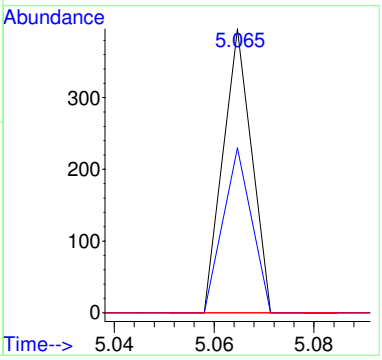


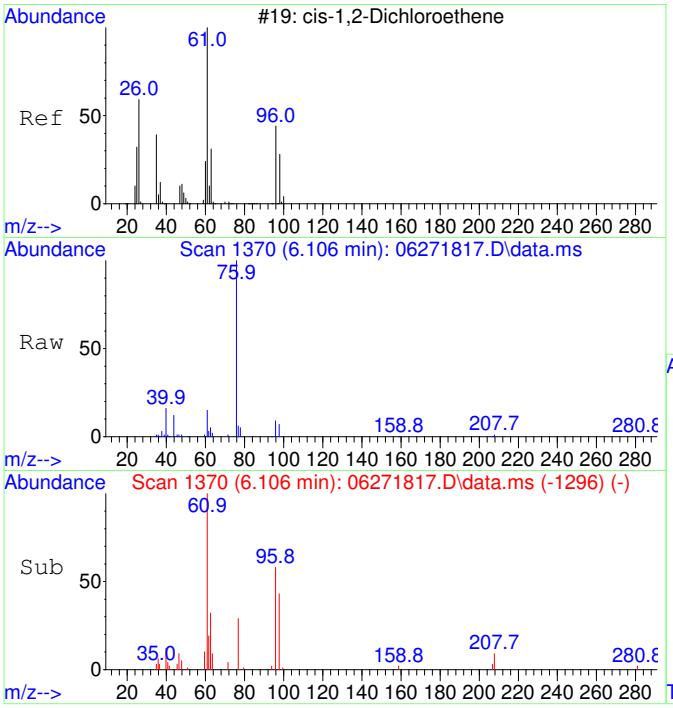


#28
1,1-Dichloroethane SCAN
Concen: 33.94 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. -0.020 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 63 Resp: 158

Ion	Ratio	Lower	Upper
63	100		
65	58.2	7.5	67.5
83	0.0	0.0	34.3

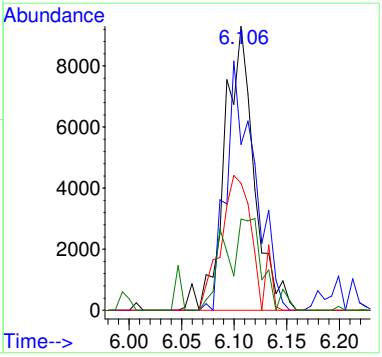


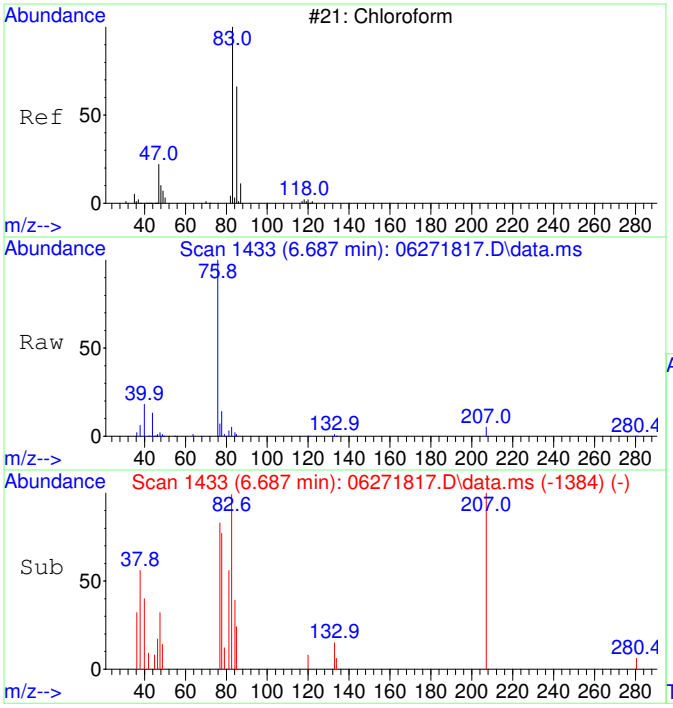


#29
cis-1,2-Dichloroethene SCAN
Concen: 4540.66 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 61 Resp: 18282

Ion	Ratio	Lower	Upper
61	100		
96	84.1	28.2	88.2
98	47.1	14.1	74.1
63	41.2	1.5	61.5

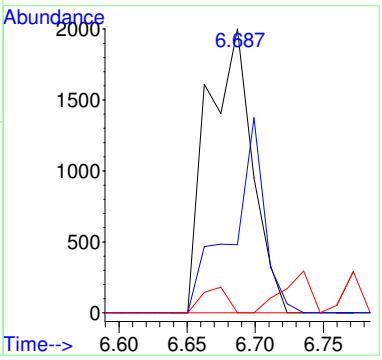


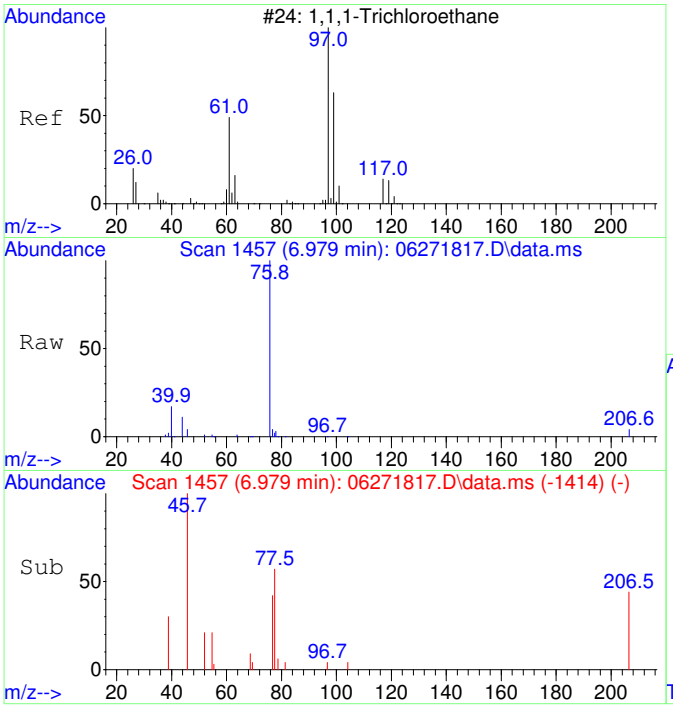


#30
Chloroform SCAN
Concen: 930.59 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. -0.012 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 83 Resp: 4599

Ion	Ratio	Lower	Upper
83	100		
85	50.7	32.6	92.6
47	0.0	0.0	57.9

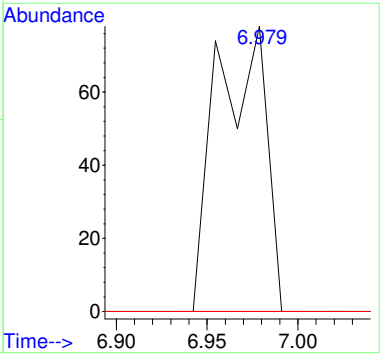


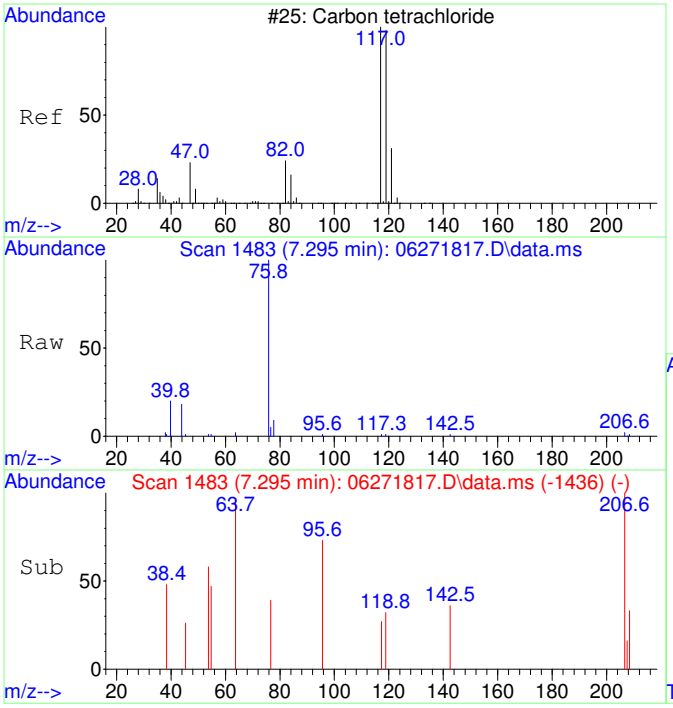


#31
1,1,1-Trichloroethane SCAN
Concen: 33.41 ug/L
RT: 6.979 min Scan# 1457
Delta R.T. 0.024 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 97 Resp: 147

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

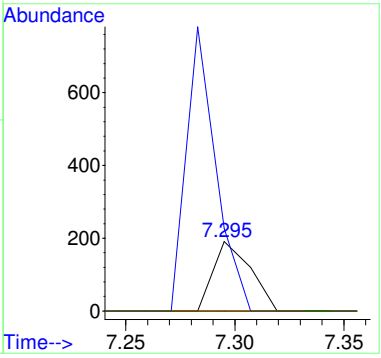


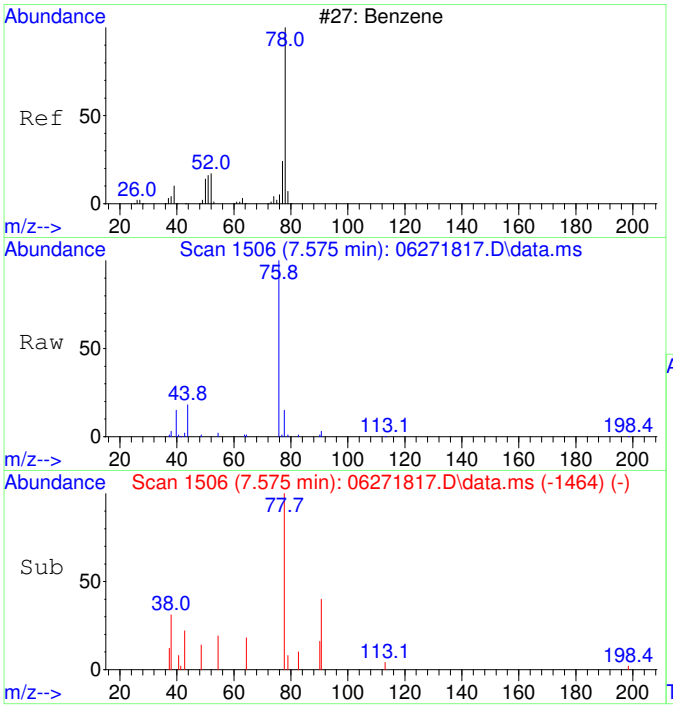


#32
Carbon tetrachloride SCAN
Concen: 52.37 ug/L
RT: 7.295 min Scan# 1483
Delta R.T. 0.073 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion:117 Resp: 227

Ion	Ratio	Lower	Upper
117	100		
119	324.2	80.2	140.2#
121	0.0	3.2	63.2#
82	0.0	7.4	67.4#

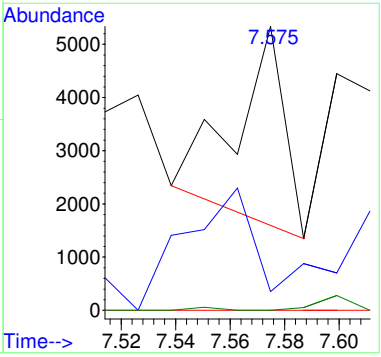


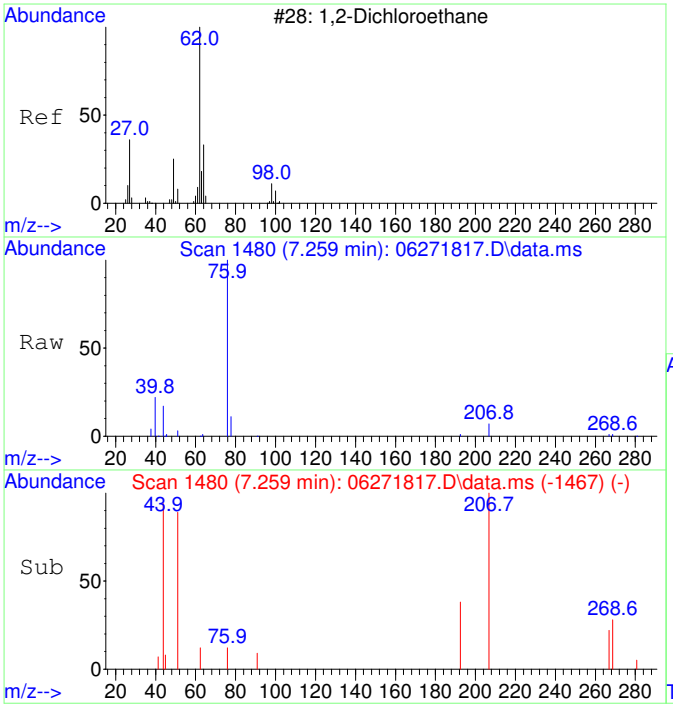


#33
Benzene SCAN
Concen: 324.57 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.012 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 78 Resp: 4258

Ion	Ratio	Lower	Upper
78	100		
77	86.6	3.0	63.0#
51	0.0	0.0	56.4
52	0.0	0.0	48.0

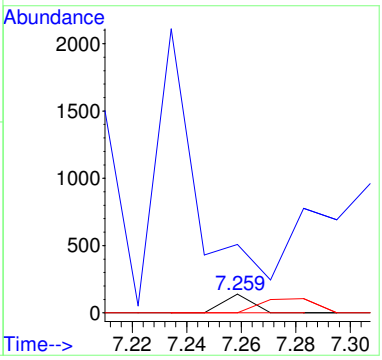


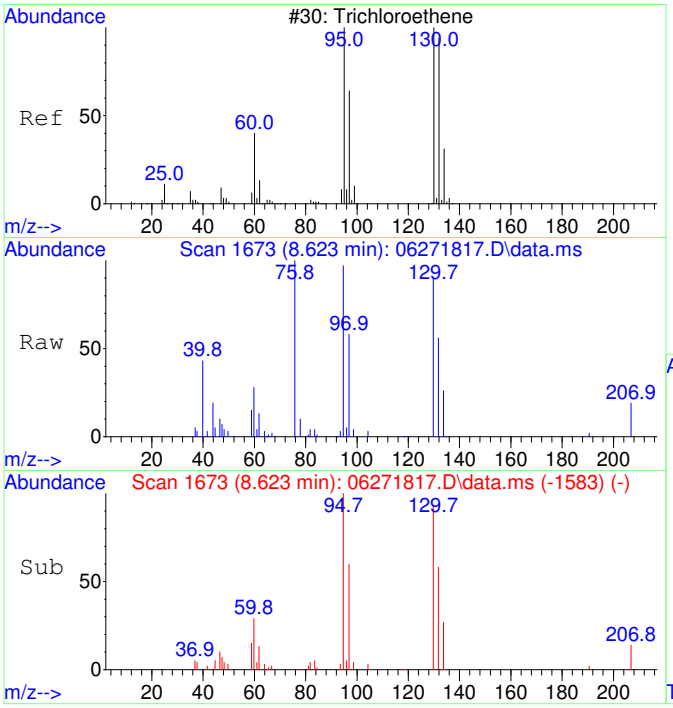


#34
1,2-Dichloroethane SCAN
Concen: 22.80 ug/L
RT: 7.259 min Scan# 1480
Delta R.T. -0.340 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 62 Resp: 102

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

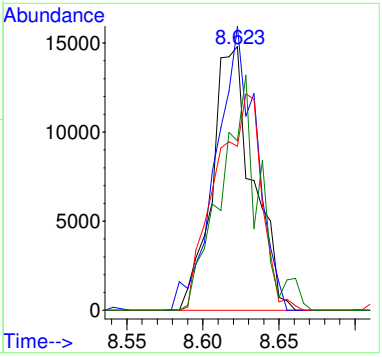


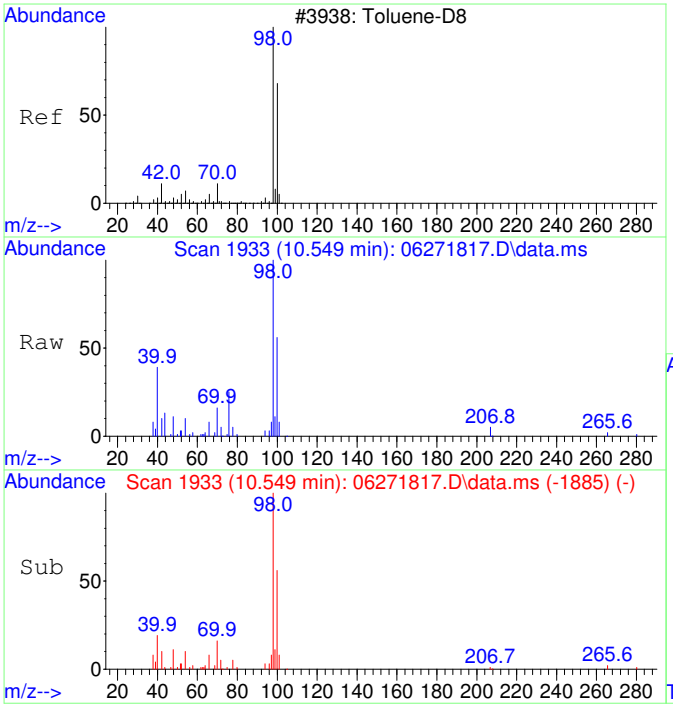


#35
Trichloroethene SCAN
Concen: 8576.07 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion:130 Resp: 27532

Ion	Ratio	Lower	Upper
130	100		
95	106.8	70.5	130.5
132	91.8	63.8	123.8
97	84.2	34.8	94.8

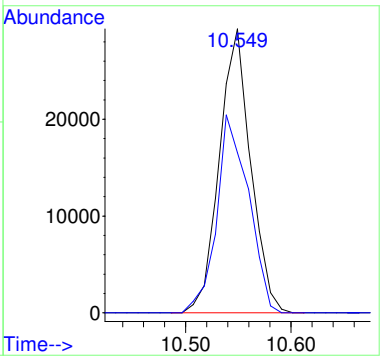


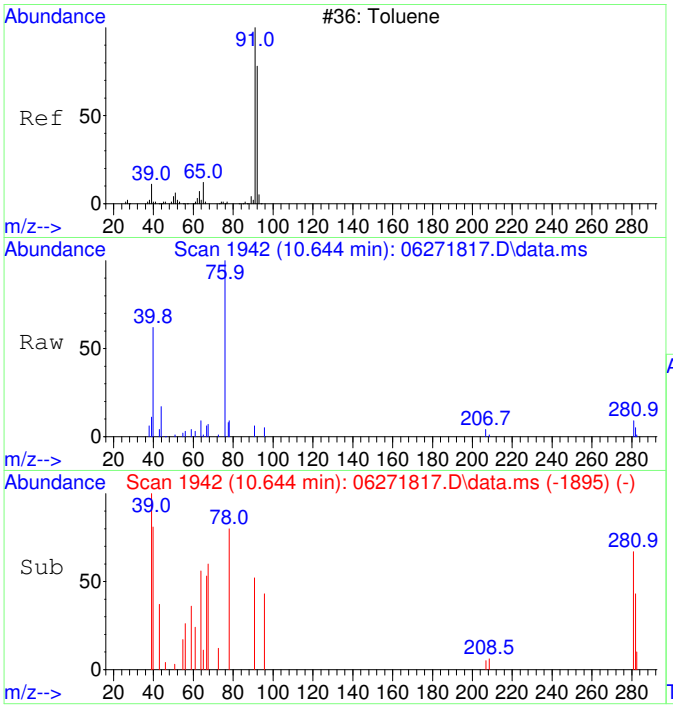


#36
Toluene-d8 SCAN
Concen: 5335.22 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 98 Resp: 60755

Ion	Ratio	Lower	Upper
98	100		
100	70.8	39.5	99.5

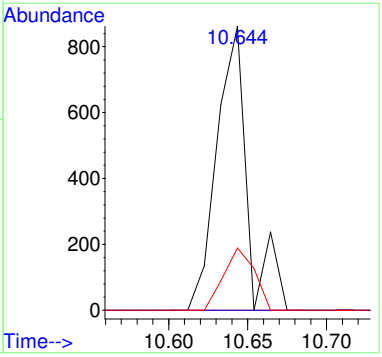


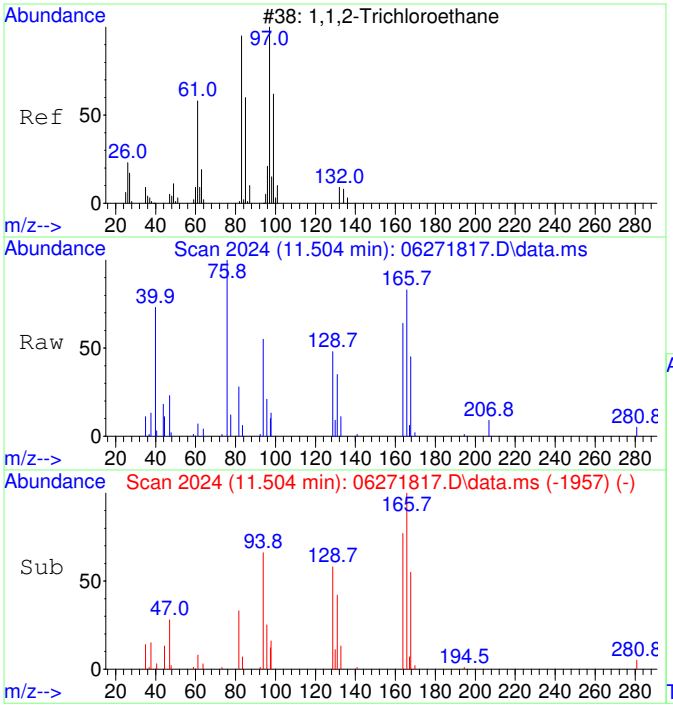


#37
Toluene SCAN
Concen: 80.50 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. -0.010 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 91 Resp: 1171

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.6	86.6#
65	21.9	0.0	42.3

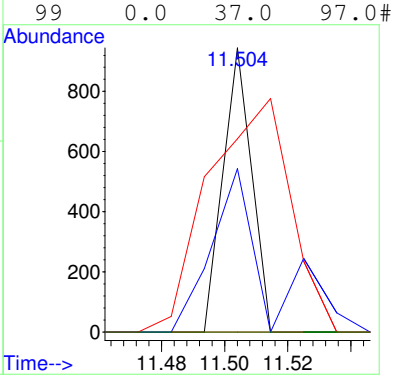


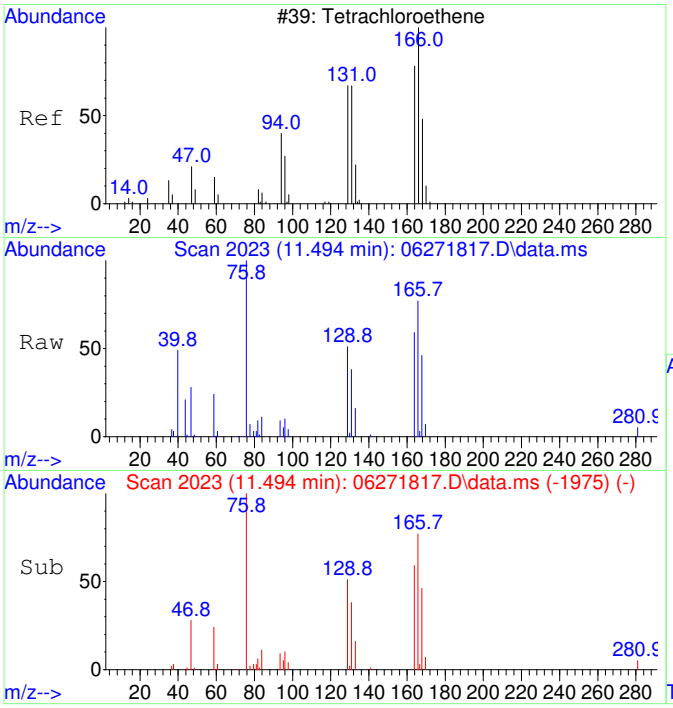


#38
1,1,2-Trichloroethane SCAN
Concen: 213.46 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.199 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 97 Resp: 595

Ion	Ratio	Lower	Upper
97	100		
83	112.4	63.6	123.6
61	235.1	44.9	104.9#
99	0.0	37.0	97.0#

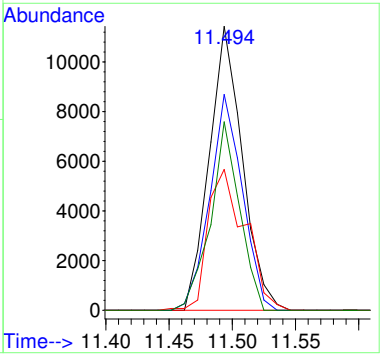


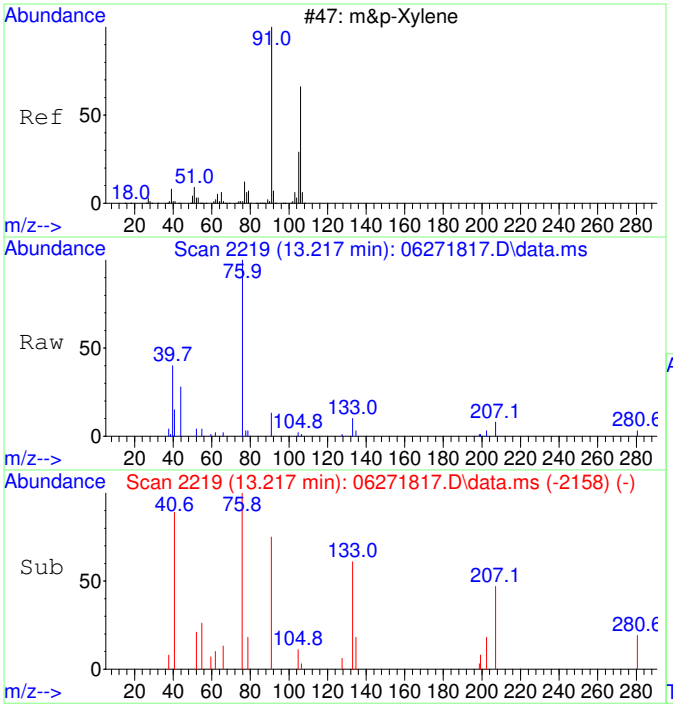


#39
Tetrachloroethene SCAN
Concen: 6530.33 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion:166 Resp: 20845

Ion	Ratio	Lower	Upper
166	100		
164	75.0	43.3	103.3
131	56.1	35.6	95.6
129	58.3	36.6	96.6

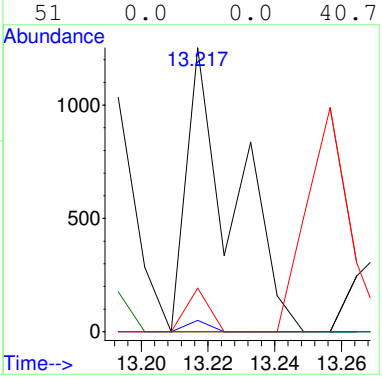


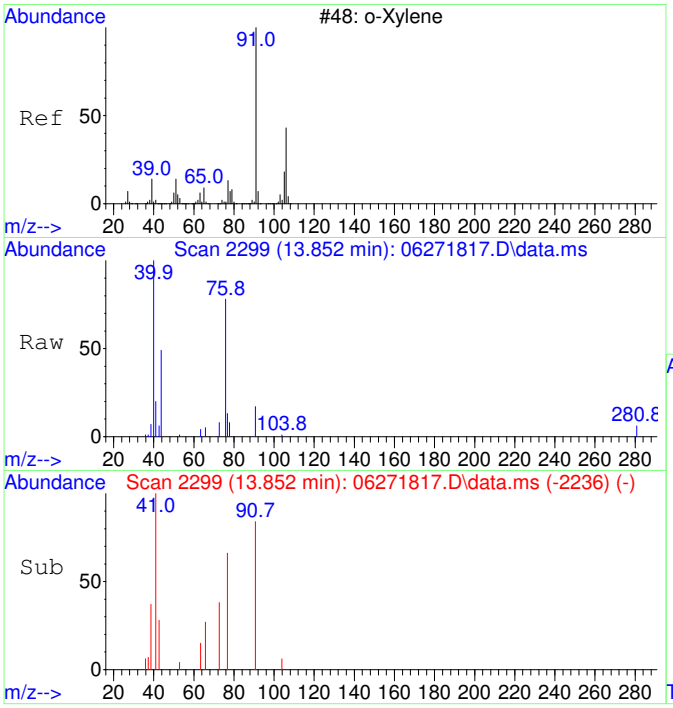


#43
m&p-Xylene SCAN
Concen: 52.54 ug/L
RT: 13.217 min Scan# 2219
Delta R.T. -0.016 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 91 Resp: 1233

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	7.5	0.0	51.1
51	0.0	0.0	40.7

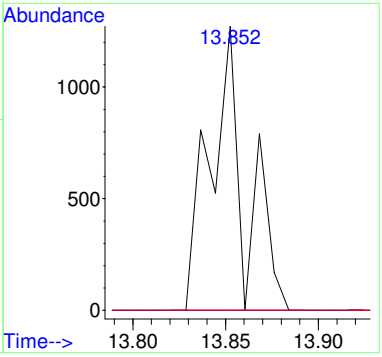


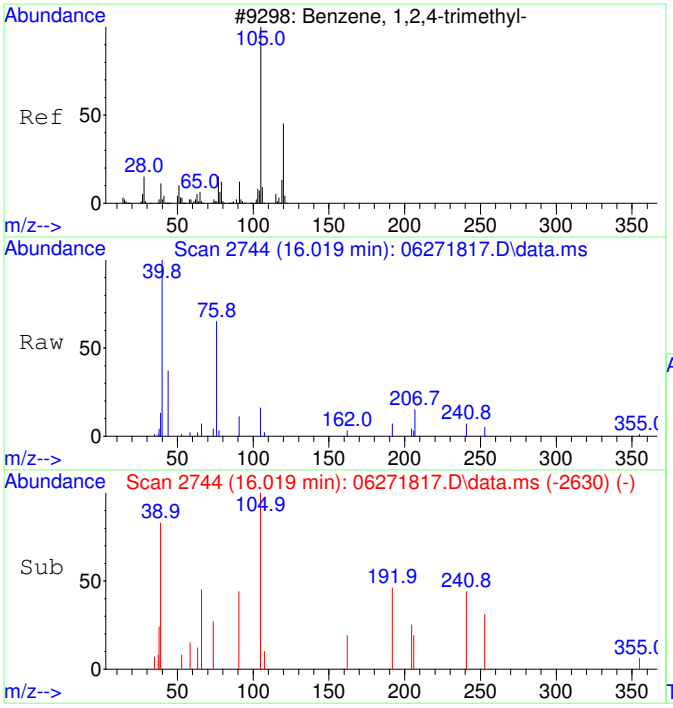


#44
o-Xylene SCAN
Concen: 127.19 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. 0.000 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion: 91 Resp: 1699

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

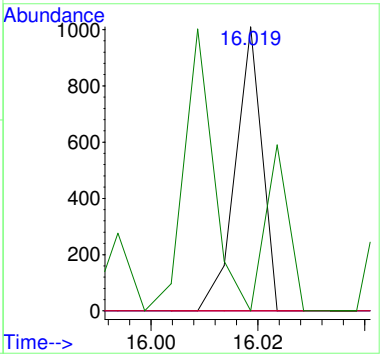




#47
1,2,4-Trimethylbenzene SCAN
Concen: 25.71 ug/L
RT: 16.019 min Scan# 2744
Delta R.T. 0.065 min
Lab File: 06271817.D
Acq: 27 Jun 2018 15:54

Tgt Ion:105 Resp: 349

Ion	Ratio	Lower	Upper
105	100		
120	0.0	15.4	75.4#
119	0.0	0.0	41.7
77	50.4	0.0	42.0#



1806075-03RE1

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271818.D
Acq On : 27 Jun 2018 16:17
InstName : AG5975C
Operator : TD
Sample : 1806075-03RE1
Misc : 10X DL, 450 uL-50 uL
ALS Vial : 18 Sample Multiplier: 10

Quant Time: Jun 28 07:06:32 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

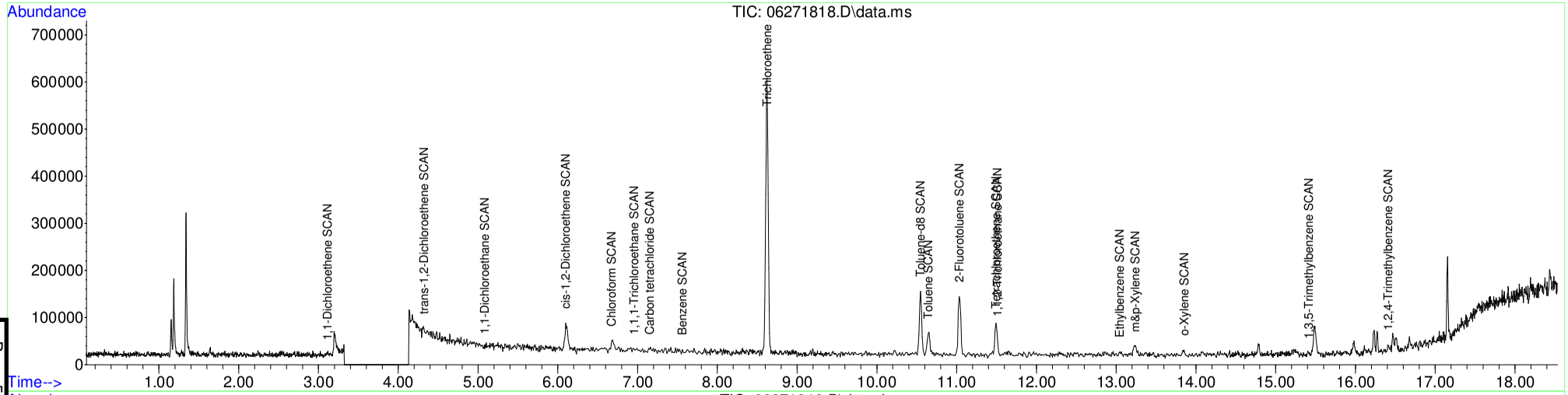
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	178578	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	146562	5052.73 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.05%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	1829	244.40 ug/L	82
3] trans-1,2-Dichloroethene	4.309	61	2892	362.17 ug/L	98
4] 1,1-Dichloroethane	5.072	63	1380	138.85 ug/L	97
5] cis-1,2-Dichloroethene	6.107	61	50078	5107.53 ug/L	100
6] Chloroform	6.676	83	25063	2373.99 ug/L	100
7] 1,1,1-Trichloroethane	6.943	97	2422	233.08 ug/L	95
8] Carbon tetrachloride	7.223	117	201	20.42 ug/L #	29
9] Benzene	7.552	78	1724	60.13 ug/L #	38
11] Trichloroethene	8.624	130	355597	45124.38 ug/L	99 OC
13] Toluene	10.645	91	71908	1848.94 ug/L	100
14] 1,1,2-Trichloroethane	11.222	97	231	28.74 ug/L #	48
15] Tetrachloroethene	11.495	166	36856	3363.55 ug/L	100
18] Ethylbenzene	13.035	91	5887	126.14 ug/L	95
19] m&p-Xylene	13.226	91	20650	573.27 ug/L	99
20] o-Xylene	13.846	91	8356	219.03 ug/L	99
22] 1,3,5-Trimethylbenzene	15.413	105	3843	89.03 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	7225	167.33 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	112794	5420.42 ug/L	98
26) 1,1-Dichloroethene SCAN	3.111	61	698	134.42 ug/L	72
27) trans-1,2-Dichloroethe...	4.321	61	2370	392.05 ug/L	70
28) 1,1-Dichloroethane SCAN	5.084	63	458	59.55 ug/L #	32
29) cis-1,2-Dichloroethene...	6.100	61	34451	5179.73 ug/L	82
30) Chloroform SCAN	6.675	83	20099	2461.95 ug/L #	44
31) 1,1,1-Trichloroethane ...	6.954	97	428	58.89 ug/L #	1
32) Carbon tetrachloride SCAN	7.149	117	650	90.77 ug/L #	13
33) Benzene SCAN	7.563	78	2102	96.99 ug/L #	41
35) Trichloroethene SCAN	8.623	130	224098	42256.98 ug/L	98
36) Toluene-d8 SCAN	10.549	98	98861	5255.39 ug/L	93
37) Toluene SCAN	10.643	91	50275	2092.21 ug/L	98
38) 1,1,2-Trichloroethane ...	11.504	97	538	116.84 ug/L #	1
39) Tetrachloroethene SCAN	11.493	166	21654	4106.59 ug/L	94
42) Ethylbenzene SCAN	13.042	91	4464	159.82 ug/L	76
43) m&p-Xylene SCAN	13.233	91	16390	422.74 ug/L	88
44) o-Xylene SCAN	13.852	91	5204	235.83 ug/L	67
46) 1,3,5-Trimethylbenzene...	15.416	105	2385	109.01 ug/L #	60
47) 1,2,4-Trimethylbenzene...	16.409	105	1720	76.71 ug/L	71

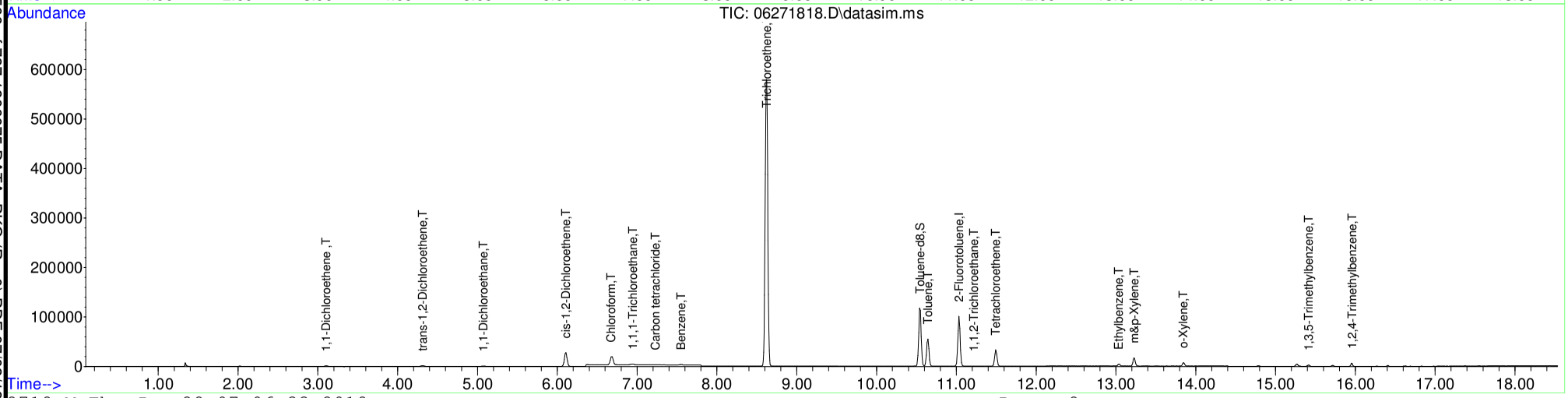
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271818.D
Acq On : 27 Jun 2018 16:17
InstName : AG5975C
Operator : TD
Sample : 1806075-03RE1
Misc : 10X DL, 450 uL-50 uL
ALS Vial : 18 Sample Multiplier: 10

Quant Time: Jun 28 07:06:32 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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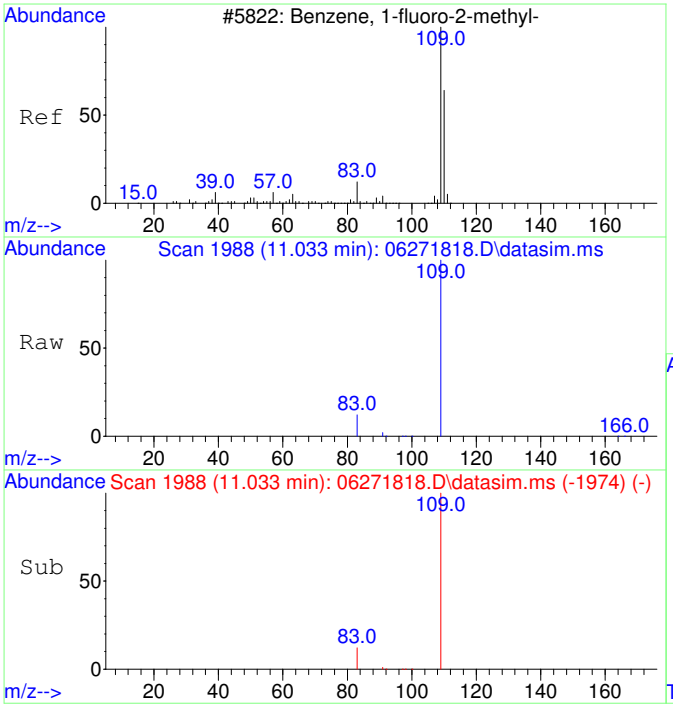
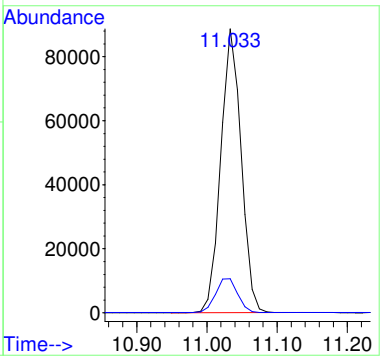
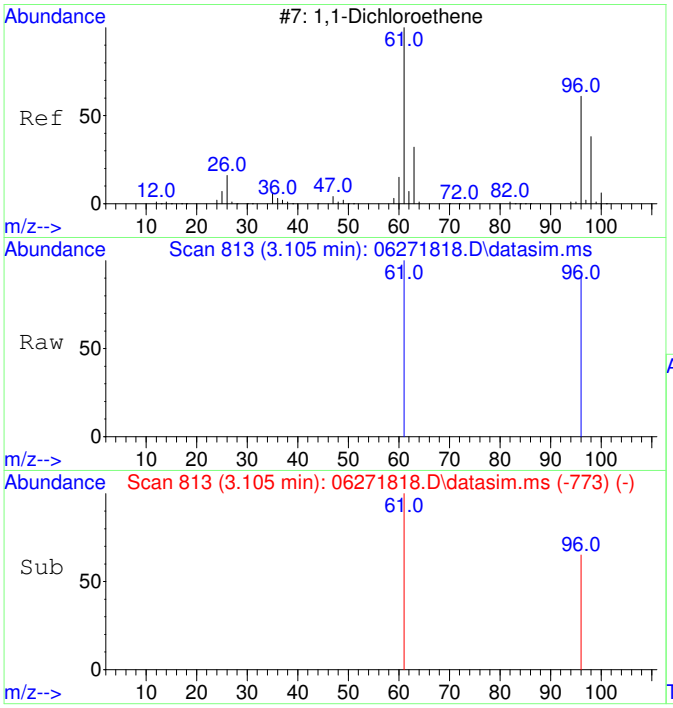


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:109 Resp: 178578

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	44.7

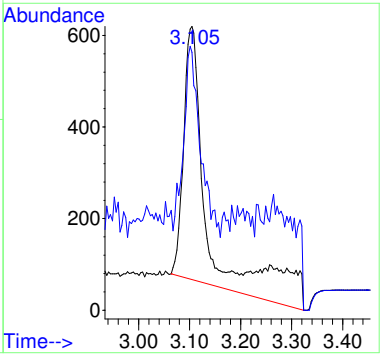


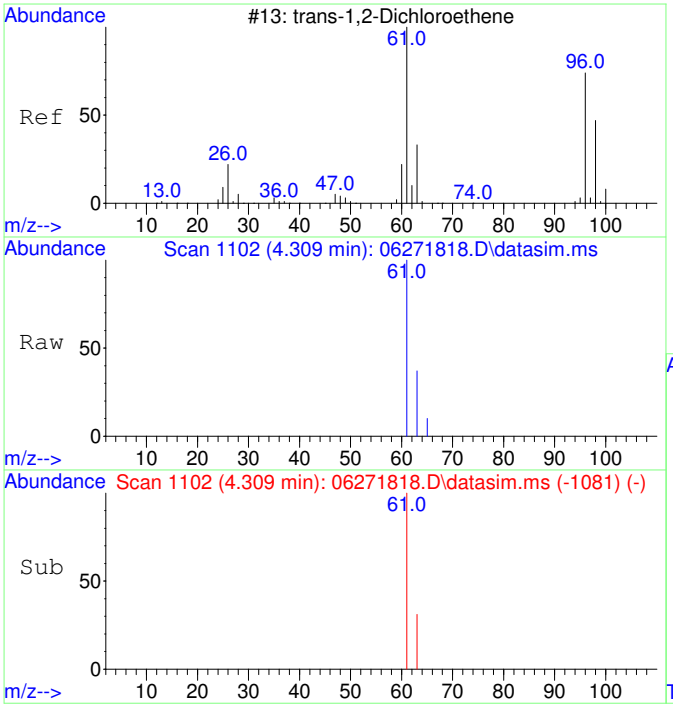


#2
1,1-Dichloroethene
Concen: 244.40 ug/L
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 61 Resp: 1829

Ion	Ratio	Lower	Upper
61	100		
96	71.8	28.7	88.7

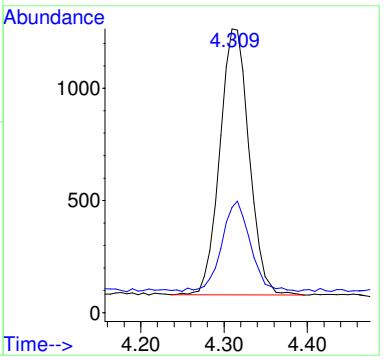


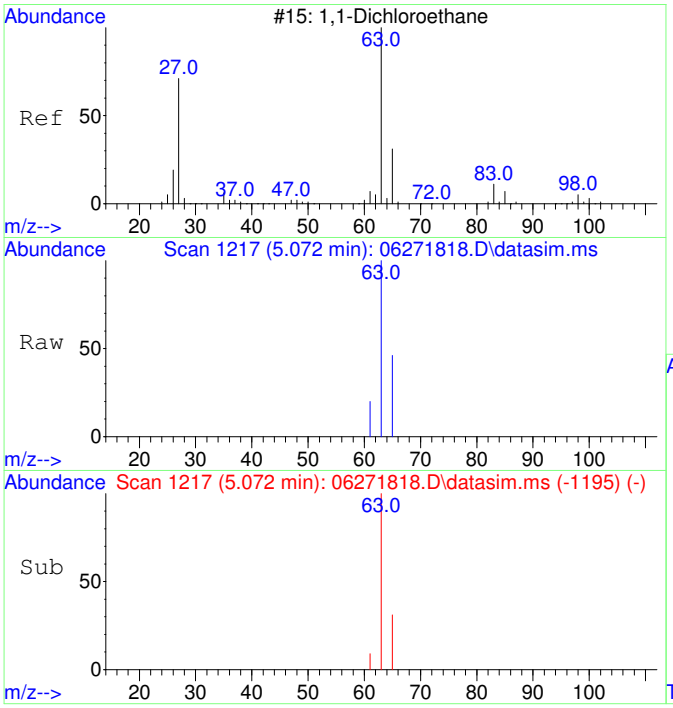


#3
trans-1,2-Dichloroethene
Concen: 362.17 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 61 Resp: 2892

Ion	Ratio	Lower	Upper
61	100		
63	33.2	2.0	62.0

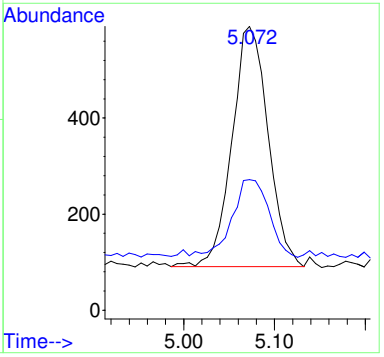


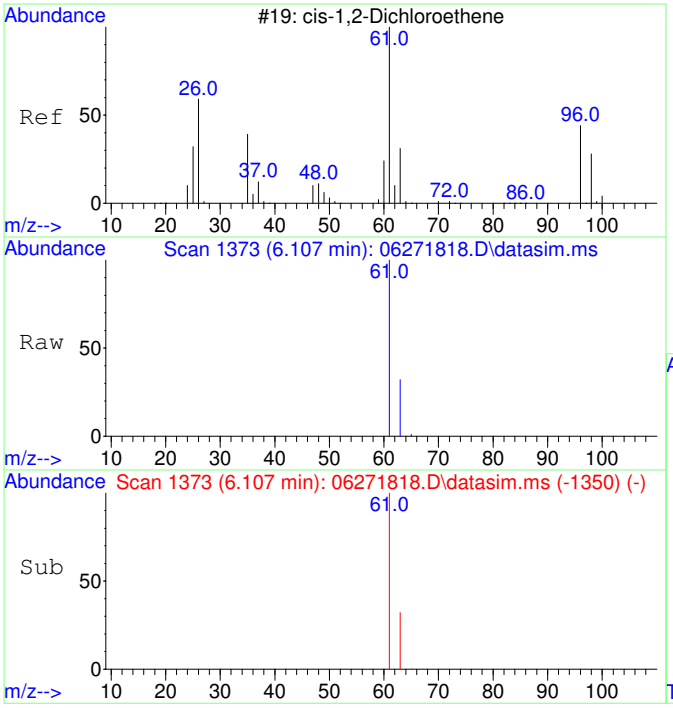


#4
1,1-Dichloroethane
Concen: 138.85 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.007 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 63 Resp: 1380

Ion	Ratio	Lower	Upper
63	100		
65	33.2	1.5	61.5

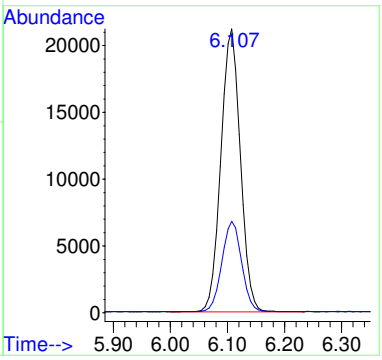


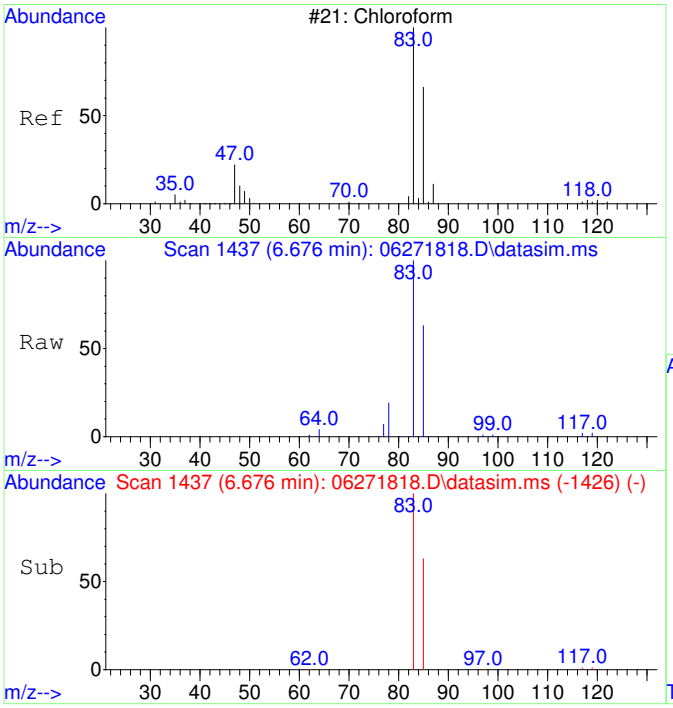


#5
cis-1,2-Dichloroethene
Concen: 5107.53 ug/L
RT: 6.107 min Scan# 1373
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 61 Resp: 50078

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.2	62.2

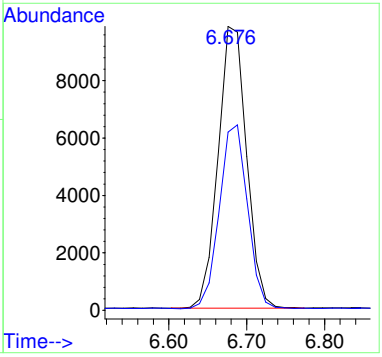


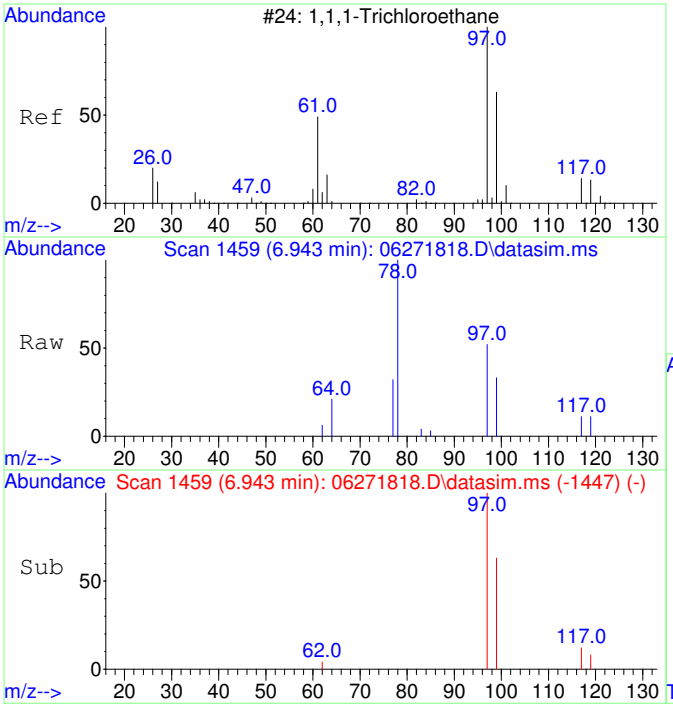


#6
Chloroform
Concen: 2373.99 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 83 Resp: 25063

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.8	94.8

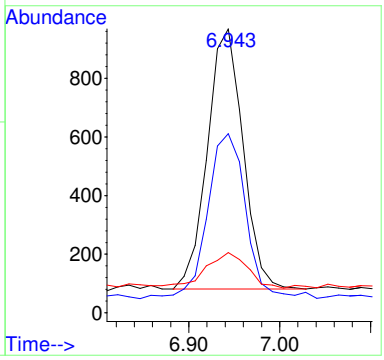


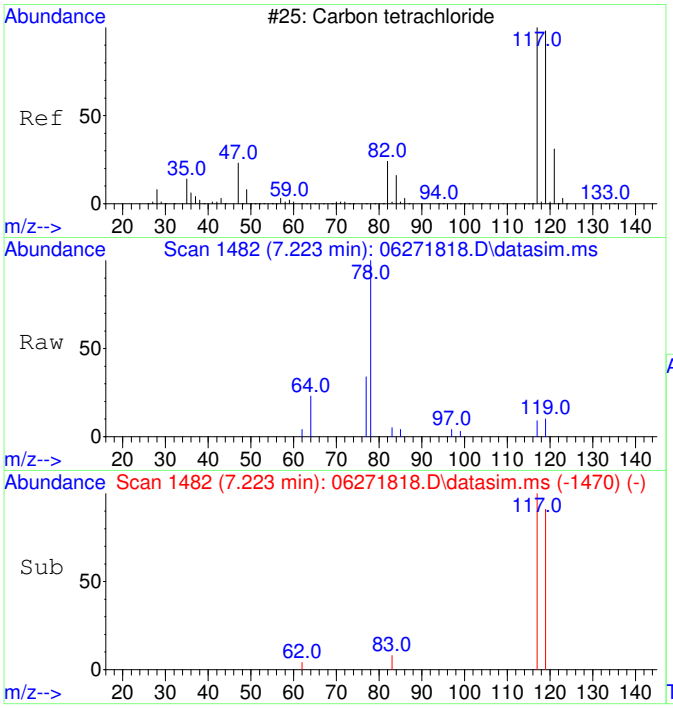


#7
1,1,1-Trichloroethane
Concen: 233.08 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 97 Resp: 2422

Ion	Ratio	Lower	Upper
97	100		
99	68.3	34.6	94.6
117	15.8	0.0	42.9

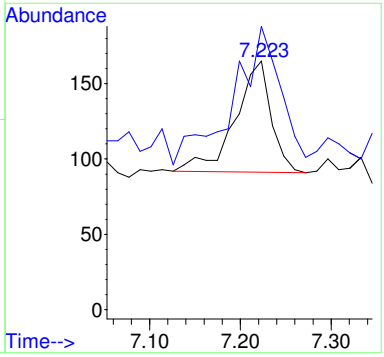


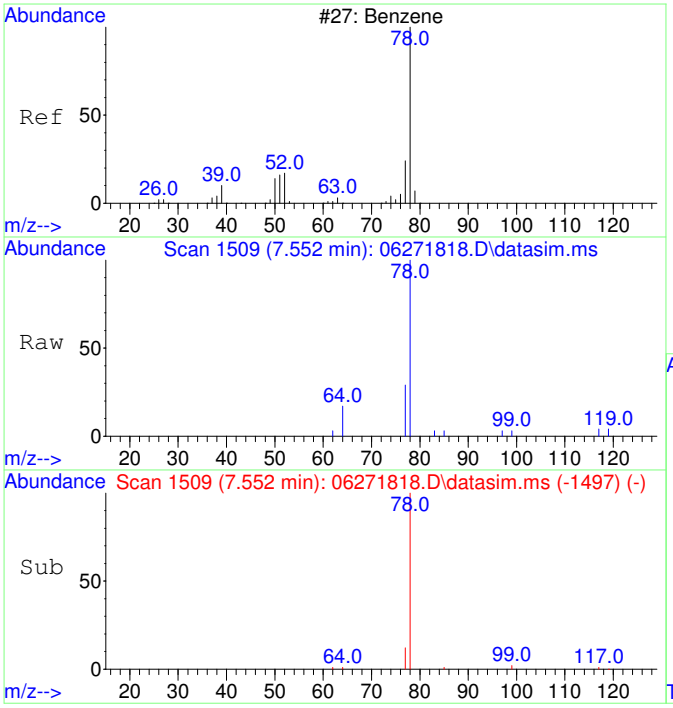


#8
Carbon tetrachloride
Concen: 20.42 ug/L
RT: 7.223 min Scan# 1482
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:117 Resp: 201

Ion	Ratio	Lower	Upper
117	100		
119	165.2	65.9	125.9#

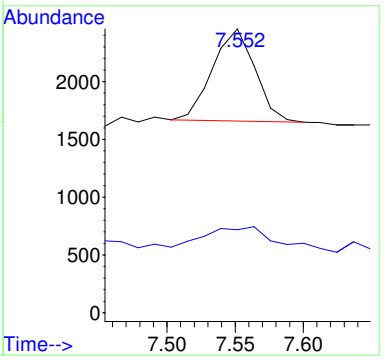


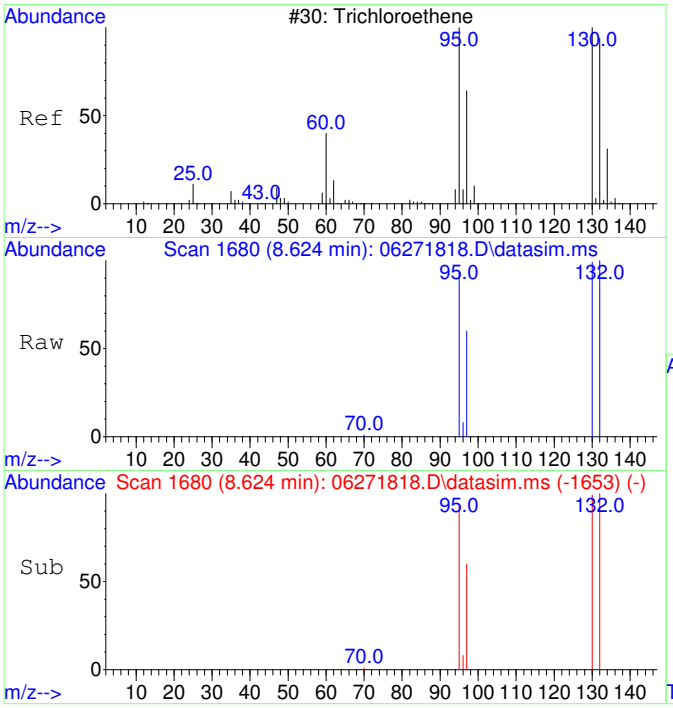


#9
Benzene
Concen: 60.13 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 78 Resp: 1724

Ion	Ratio	Lower	Upper
78	100		
77	53.2	0.0	53.0#

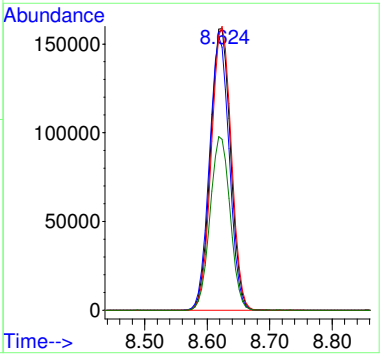


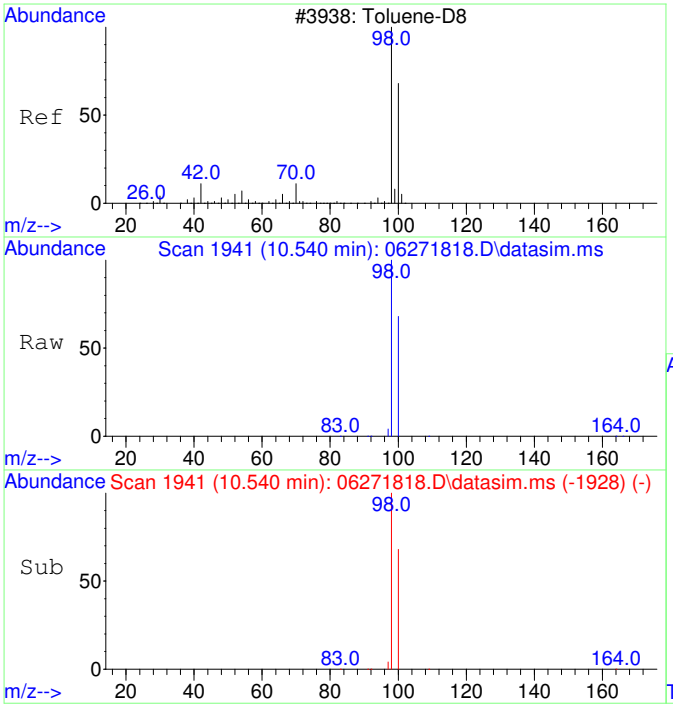


#11
Trichloroethene
Concen: 45124.38 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.006 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:130 Resp: 355597

Ion	Ratio	Lower	Upper
130	100		
95	95.6	66.0	126.0
132	99.8	78.8	118.8
97	61.3	41.9	81.9

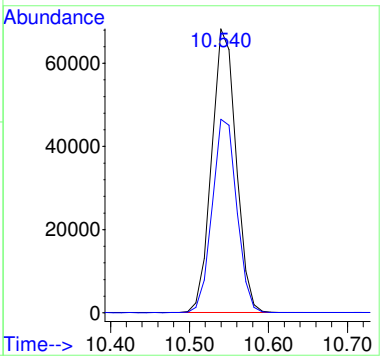


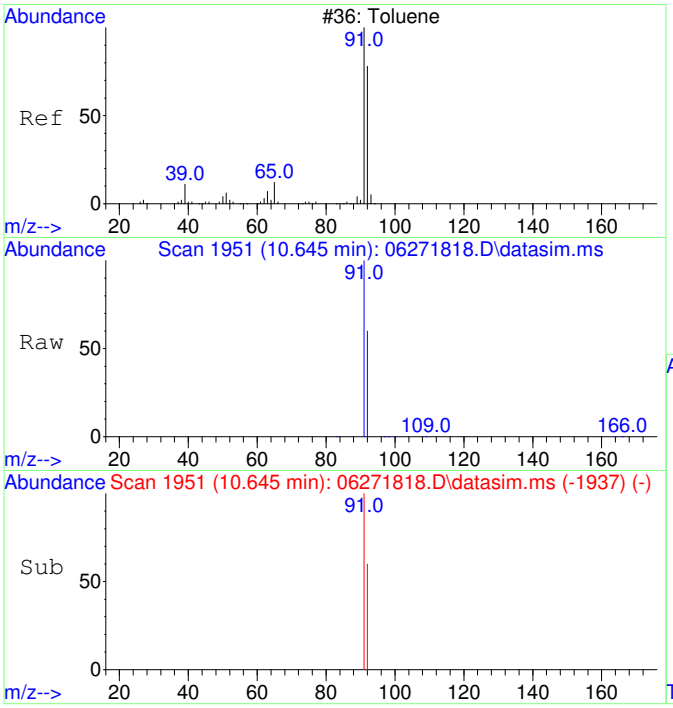


#12
Toluene-d8
Concen: 5052.73 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 98 Resp: 146562

Ion	Ratio	Lower	Upper
98	100		
100	68.5	38.7	98.7

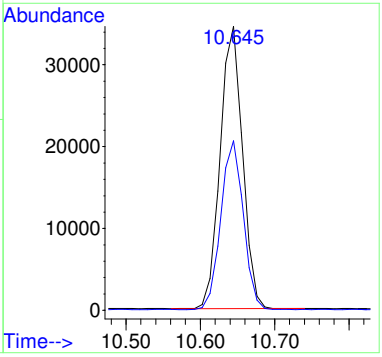


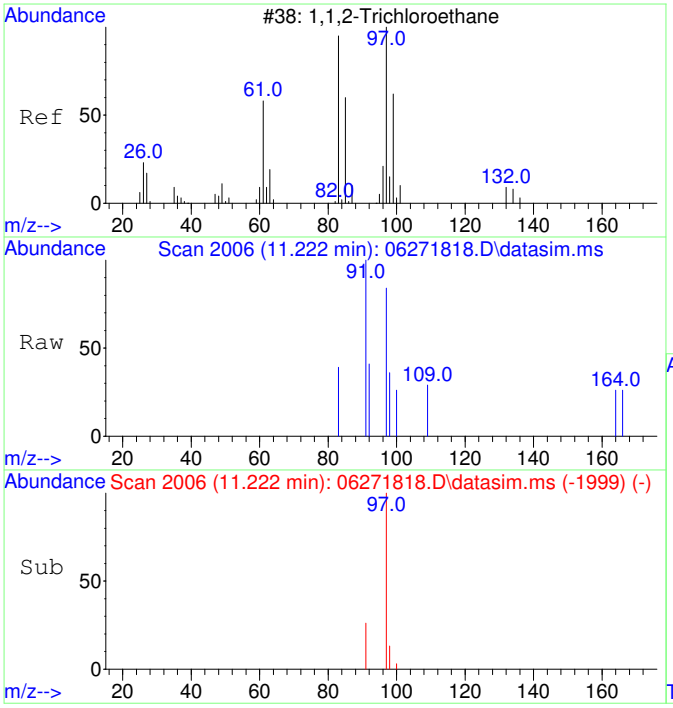


#13
Toluene
Concen: 1848.94 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 91 Resp: 71908

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

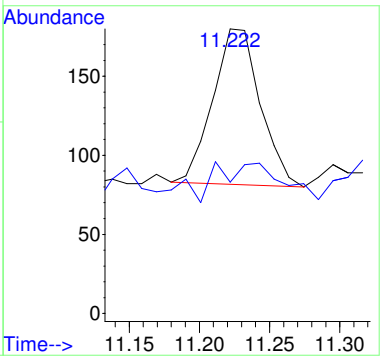


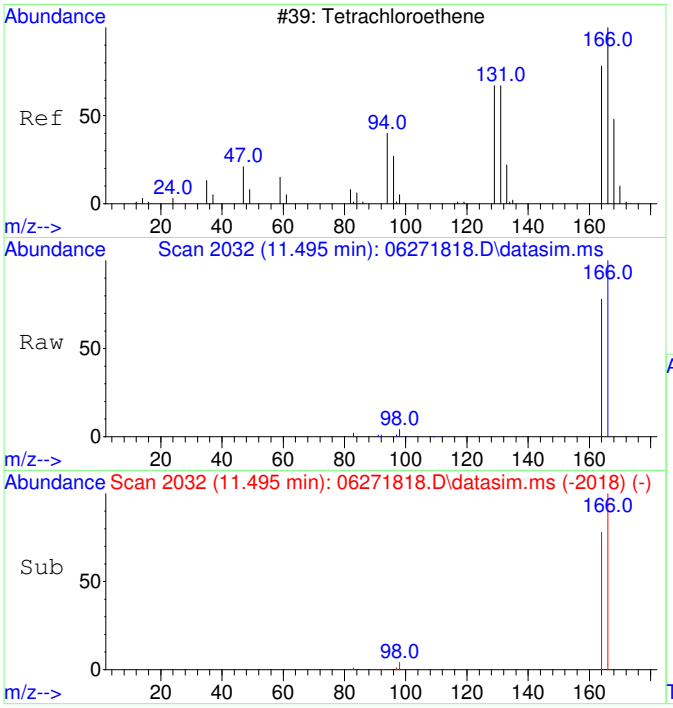


#14
1,1,2-Trichloroethane
Concen: 28.74 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.074 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 97 Resp: 231

Ion	Ratio	Lower	Upper
97	100		
83	36.8	53.4	113.4#

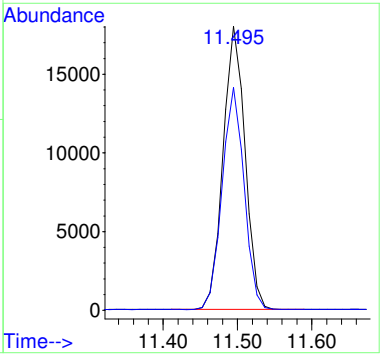


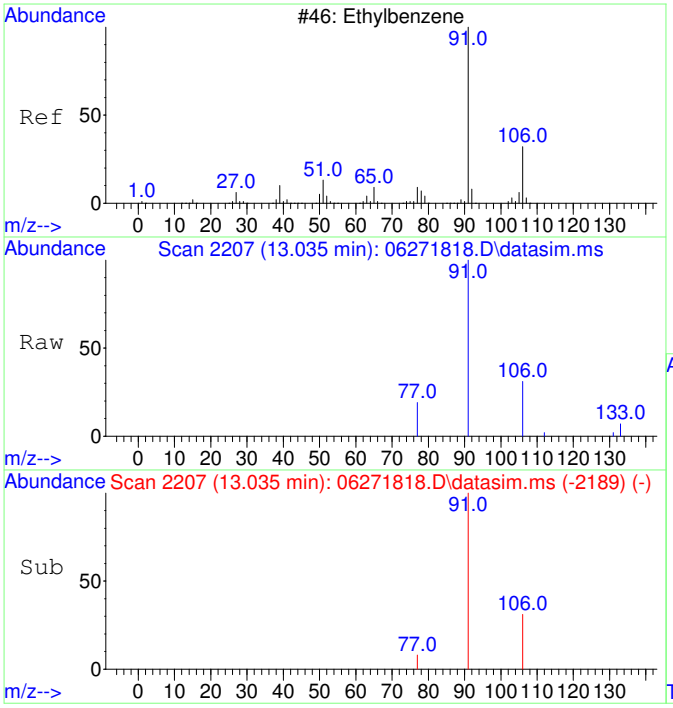


#15
Tetrachloroethene
Concen: 3363.55 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:166 Resp: 36856

Ion	Ratio	Lower	Upper
166	100		
164	78.2	47.8	107.8

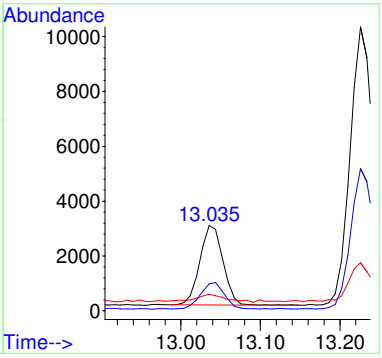


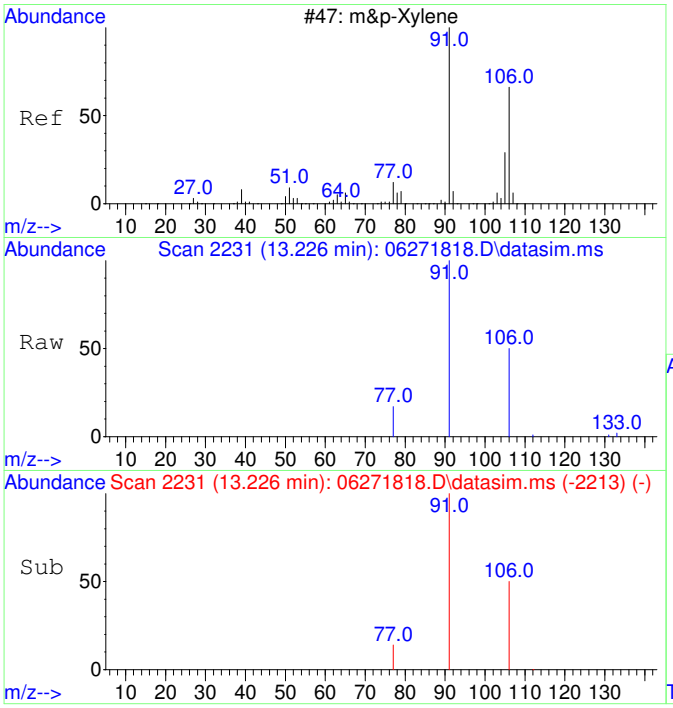


#18
Ethylbenzene
Concen: 126.14 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 91 Resp: 5887

Ion	Ratio	Lower	Upper
91	100		
106	34.0	2.8	62.8
77	14.2	0.0	38.6

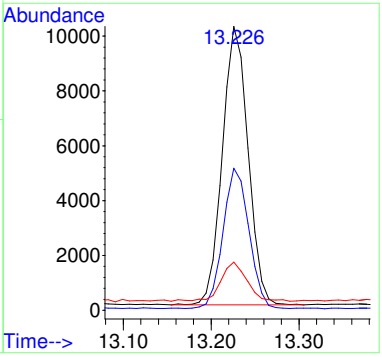


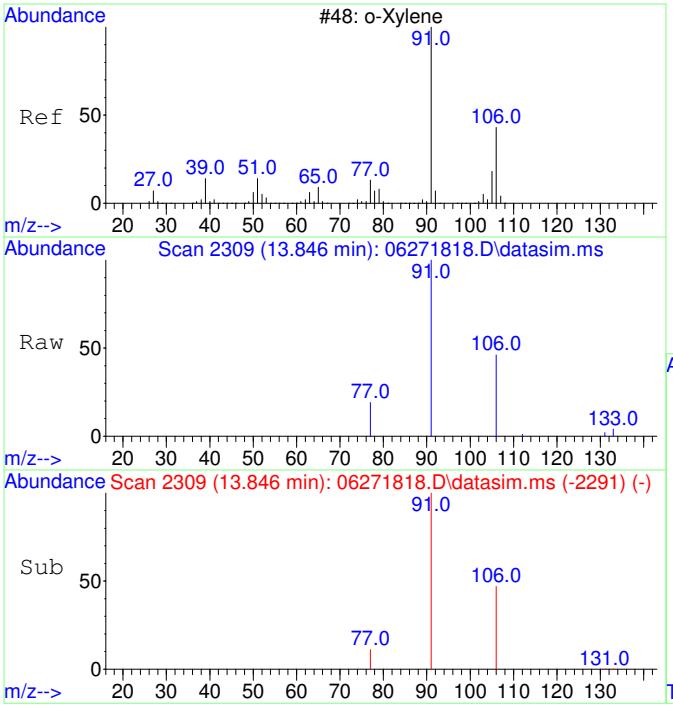


#19
m&p-Xylene
Concen: 573.27 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 91 Resp: 20650

Ion	Ratio	Lower	Upper
91	100		
106	50.5	21.2	81.2
77	13.9	0.0	42.9

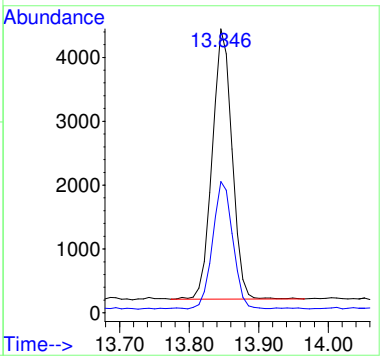


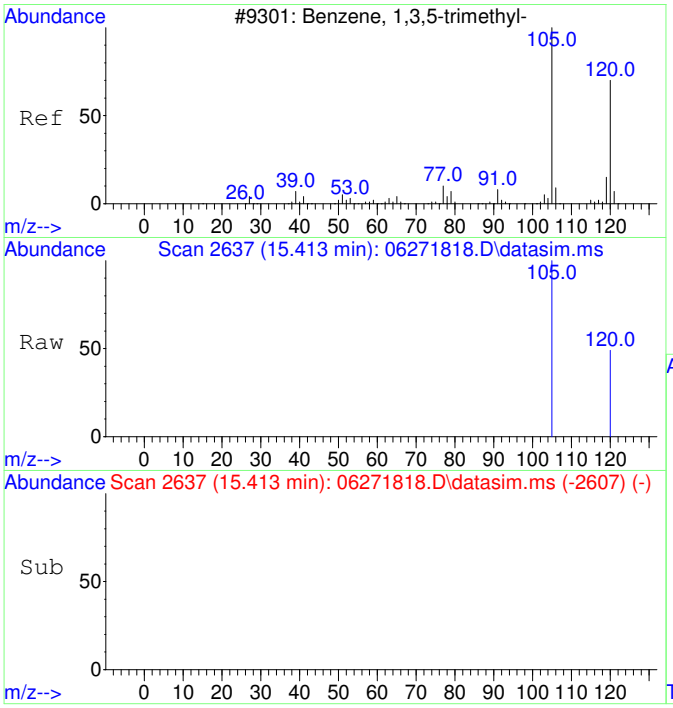


#20
o-Xylene
Concen: 219.03 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 91 Resp: 8356

Ion	Ratio	Lower	Upper
91	100		
106	47.8	18.3	78.3

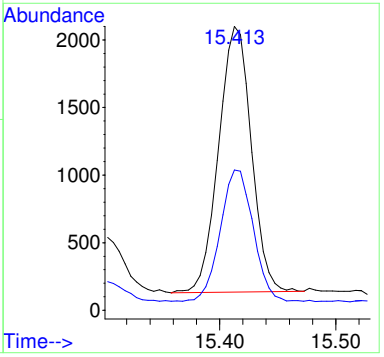


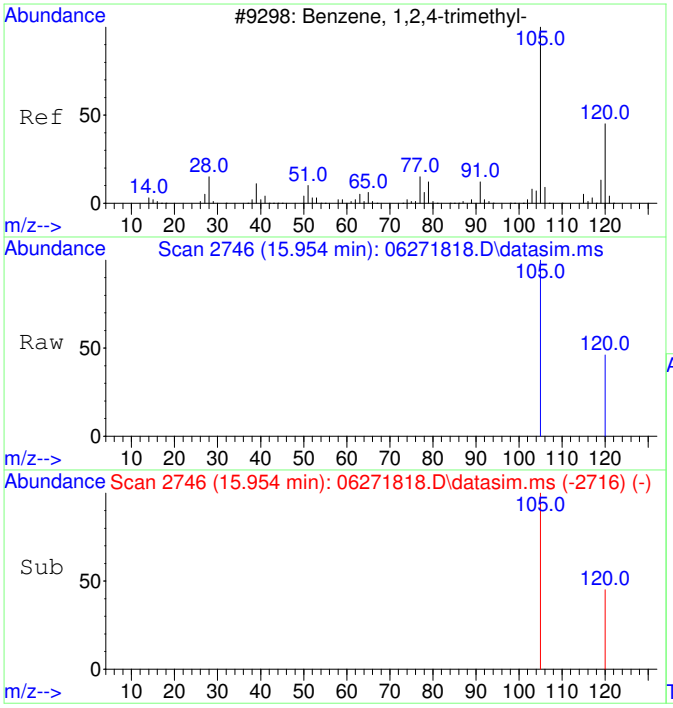


#22
1,3,5-Trimethylbenzene
Concen: 89.03 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.002 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:105 Resp: 3843

Ion	Ratio	Lower	Upper
105	100		
120	49.6	19.1	79.1

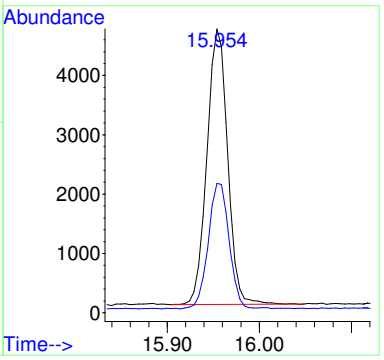


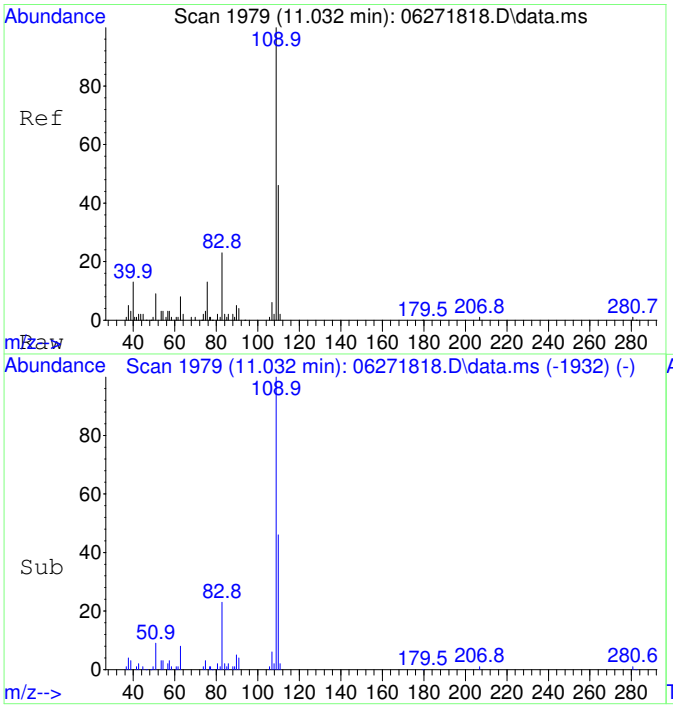


#23
1,2,4-Trimethylbenzene
Concen: 167.33 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.002 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:105 Resp: 7225

Ion	Ratio	Lower	Upper
105	100		
120	45.9	15.5	75.5

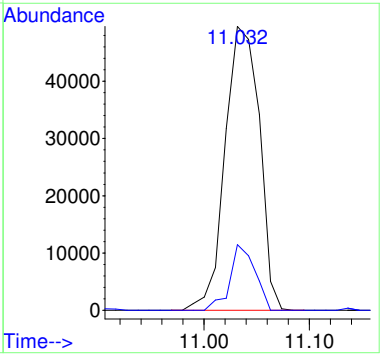


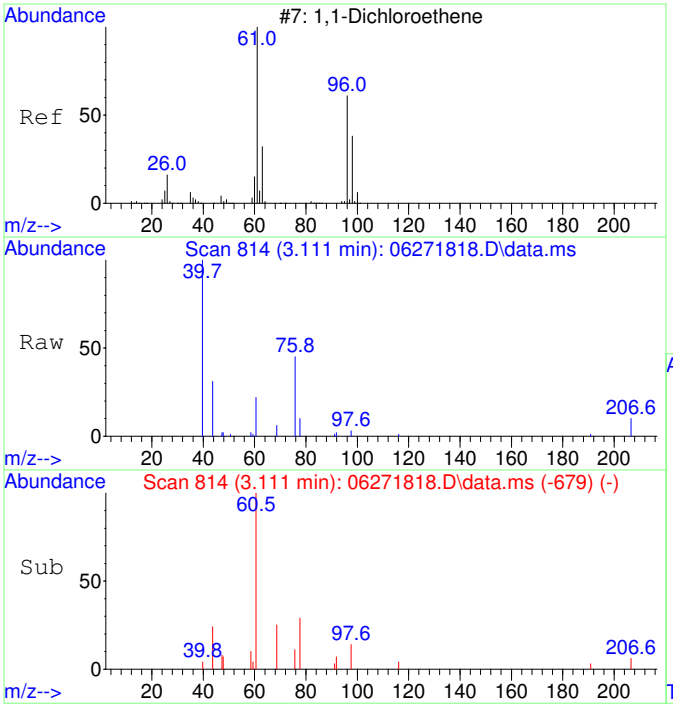


#25
2-Fluorotoluene SCAN
Concen: 5420.42 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:109 Resp: 112794

Ion	Ratio	Lower	Upper
109	100		
83	16.8	0.0	45.7

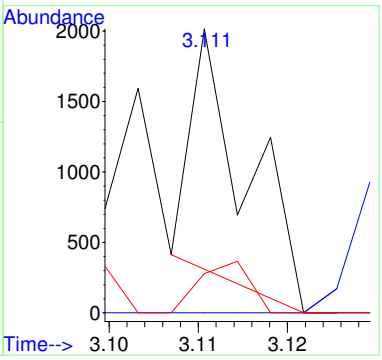


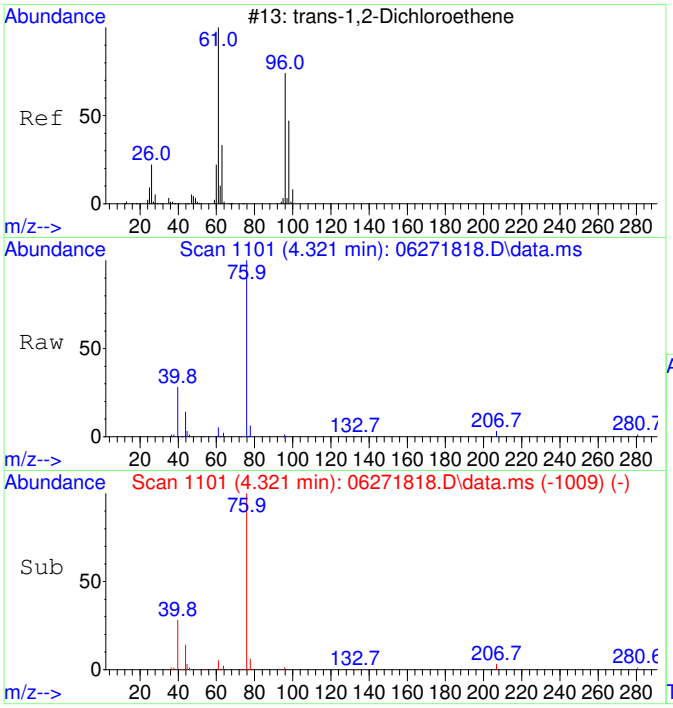


#26
1,1-Dichloroethene SCAN
Concen: 134.42 ug/L
RT: 3.111 min Scan# 814
Delta R.T. 0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 61 Resp: 698

Ion	Ratio	Lower	Upper
61	100		
96	35.1	23.8	83.8
98	20.6	8.8	68.8

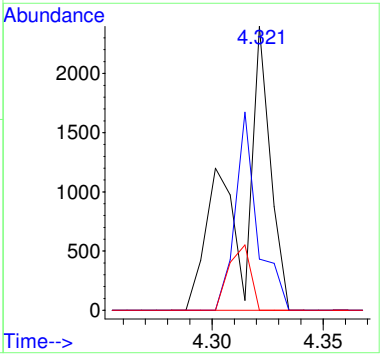


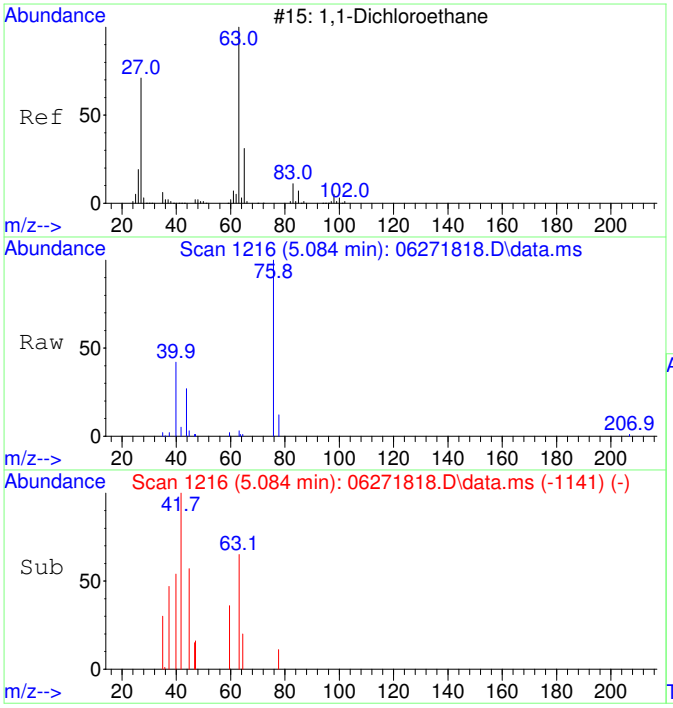


#27
trans-1,2-Dichloroethene SCAN
Concen: 392.05 ug/L
RT: 4.321 min Scan# 1101
Delta R.T. -0.013 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 61 Resp: 2370

Ion	Ratio	Lower	Upper
61	100		
96	49.2	37.9	97.9
98	16.0	12.7	72.7

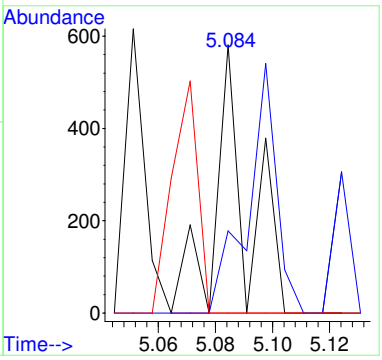


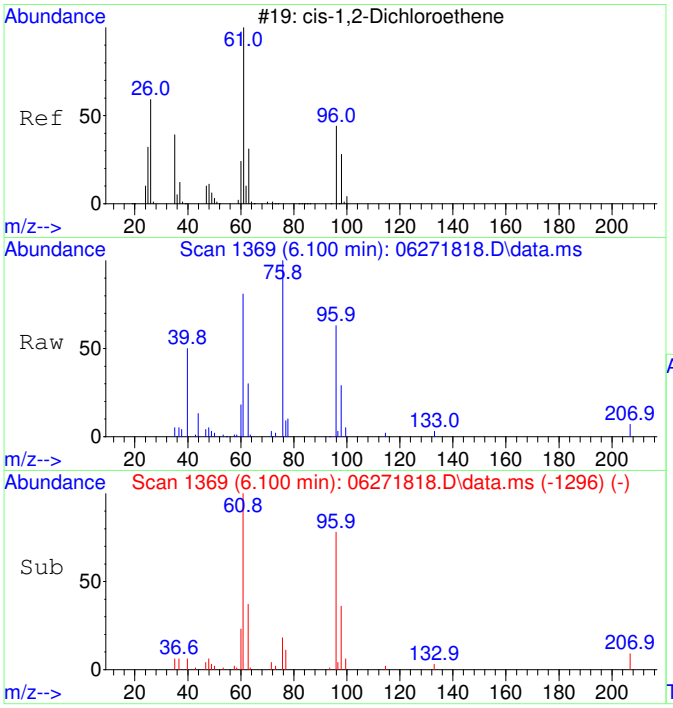


#28
1,1-Dichloroethane SCAN
Concen: 59.55 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 63 Resp: 458

Ion	Ratio	Lower	Upper
63	100		
65	82.3	7.5	67.5#
83	0.0	0.0	34.3

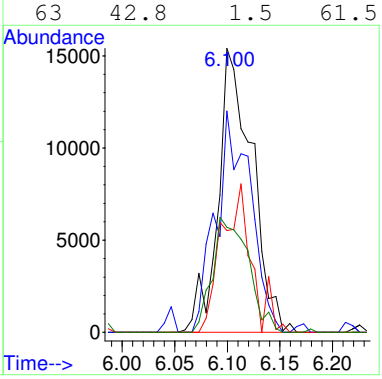


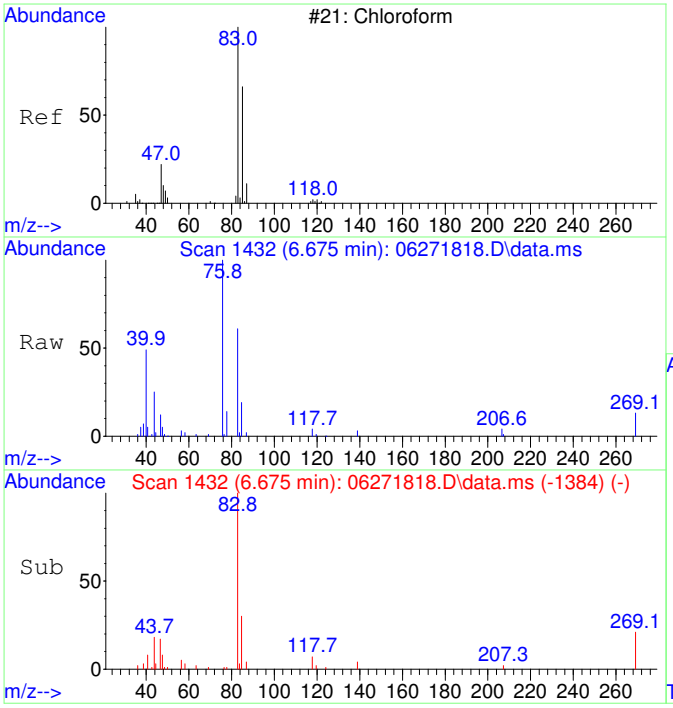


#29
cis-1,2-Dichloroethene SCAN
Concen: 5179.73 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 61 Resp: 34451

Ion	Ratio	Lower	Upper
61	100		
96	79.6	28.2	88.2
98	45.9	14.1	74.1
63	42.8	1.5	61.5

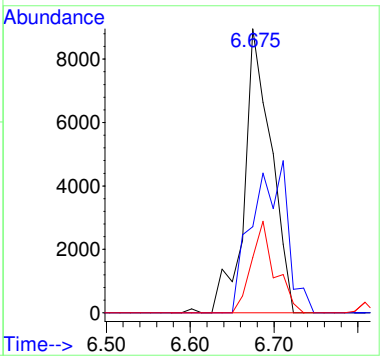


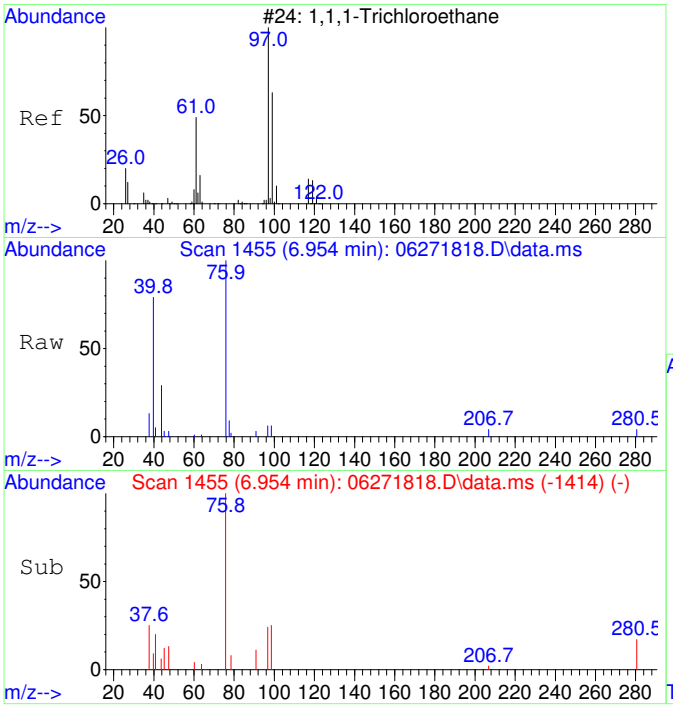


#30
Chloroform SCAN
Concen: 2461.95 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 83 Resp: 20099

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	28.2	0.0	57.9

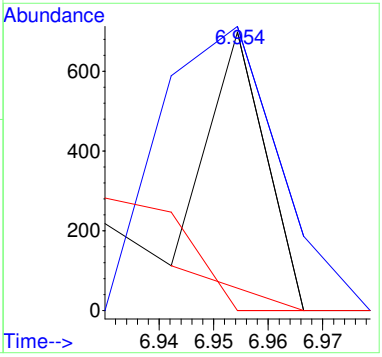


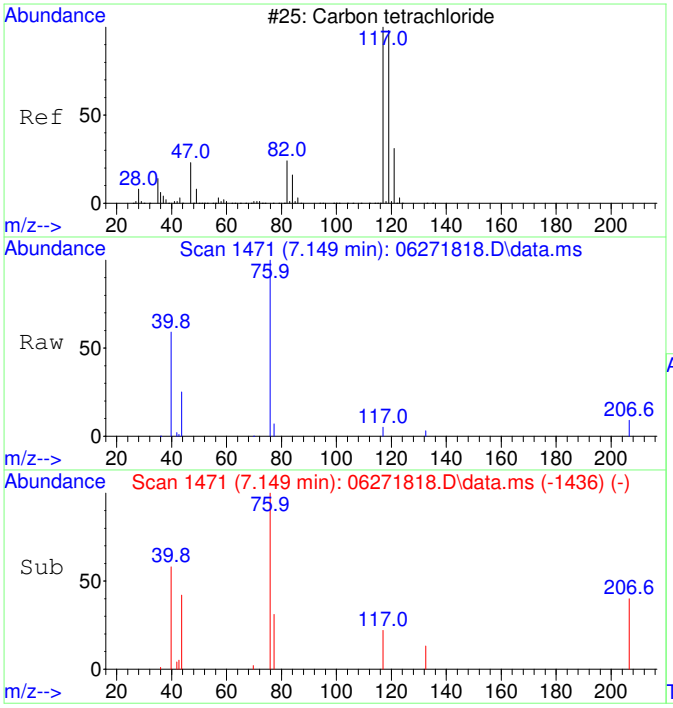


#31
1,1,1-Trichloroethane SCAN
Concen: 58.89 ug/L
RT: 6.954 min Scan# 1455
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 97 Resp: 428

Ion	Ratio	Lower	Upper
97	100		
99	253.7	27.9	87.9#
61	0.0	15.1	75.1#

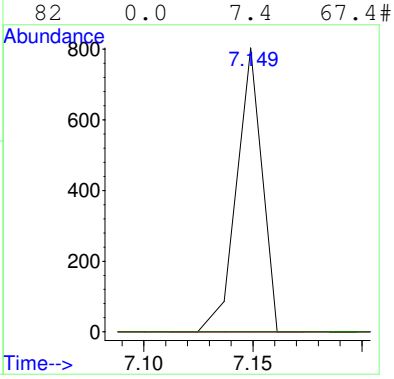


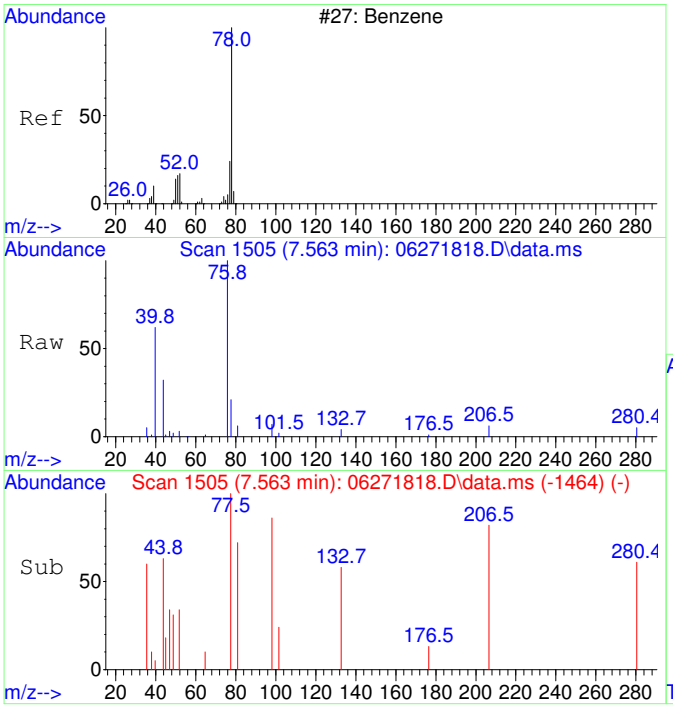


#32
Carbon tetrachloride SCAN
Concen: 90.77 ug/L
RT: 7.149 min Scan# 1471
Delta R.T. -0.073 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:117 Resp: 650

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#

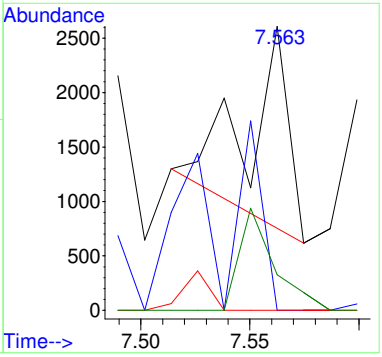


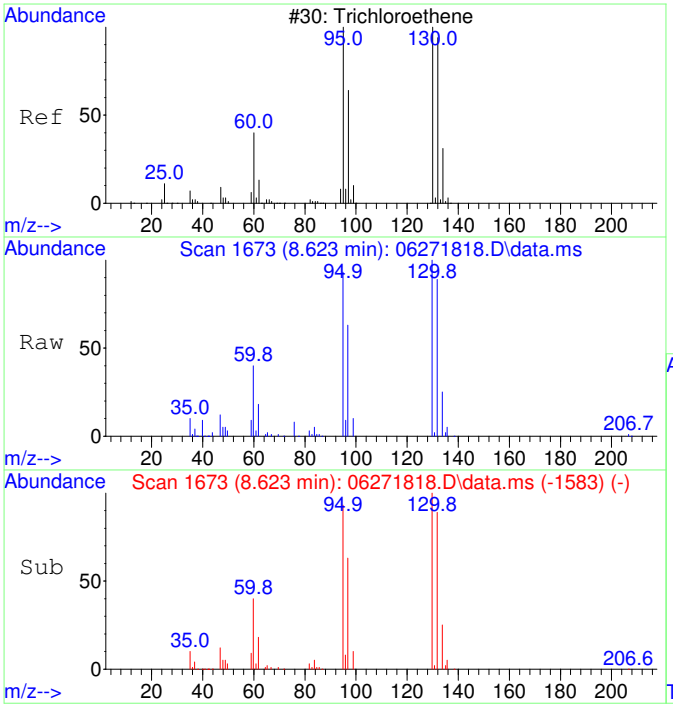


#33
Benzene SCAN
Concen: 96.99 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 78 Resp: 2102

Ion	Ratio	Lower	Upper
78	100		
77	0.0	3.0	63.0#
51	0.0	0.0	56.4
52	49.5	0.0	48.0#

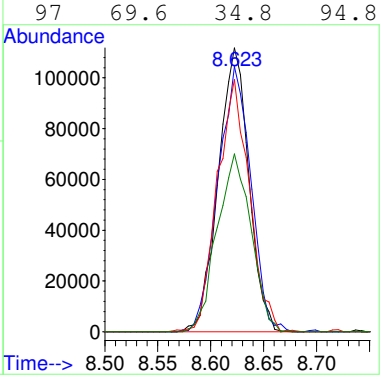


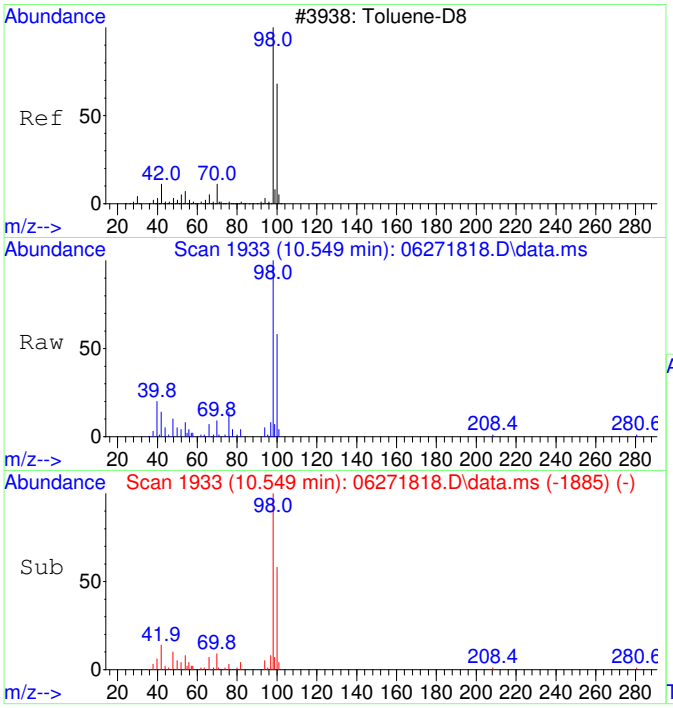


#35
Trichloroethene SCAN
Concen: 42256.98 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:130 Resp: 224098

Ion	Ratio	Lower	Upper
130	100		
95	100.3	70.5	130.5
132	93.0	63.8	123.8
97	69.6	34.8	94.8

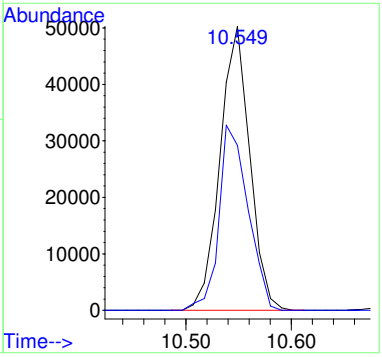


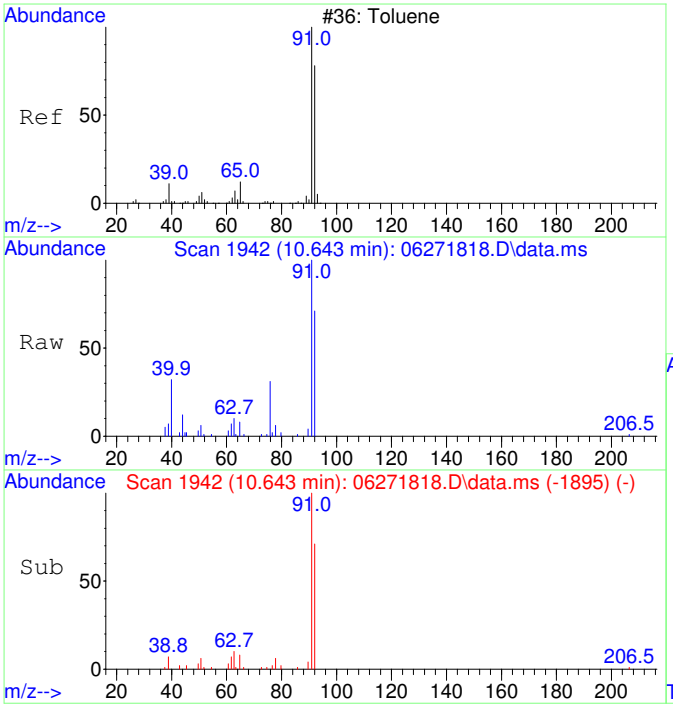


#36
Toluene-d8 SCAN
Concen: 5255.39 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 98 Resp: 98861

Ion	Ratio	Lower	Upper
98	100		
100	63.8	39.5	99.5

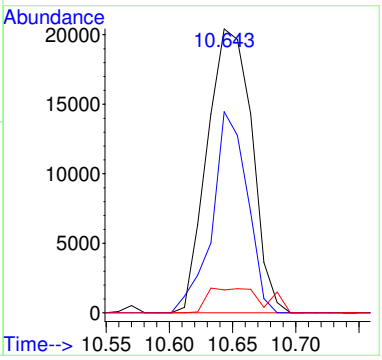


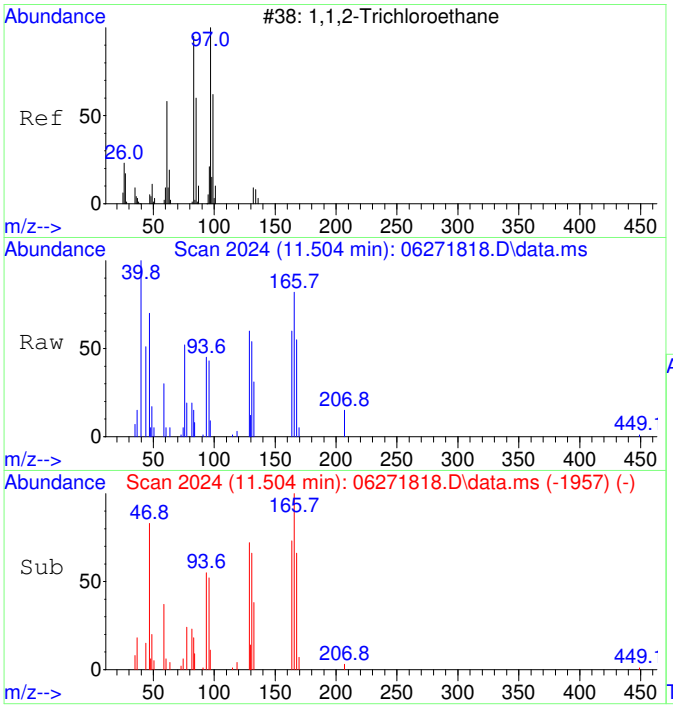


#37
Toluene SCAN
Concen: 2092.21 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.011 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 91 Resp: 50275

Ion	Ratio	Lower	Upper
91	100		
92	55.7	26.6	86.6
65	11.0	0.0	42.3

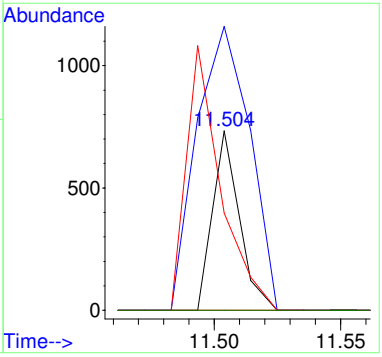


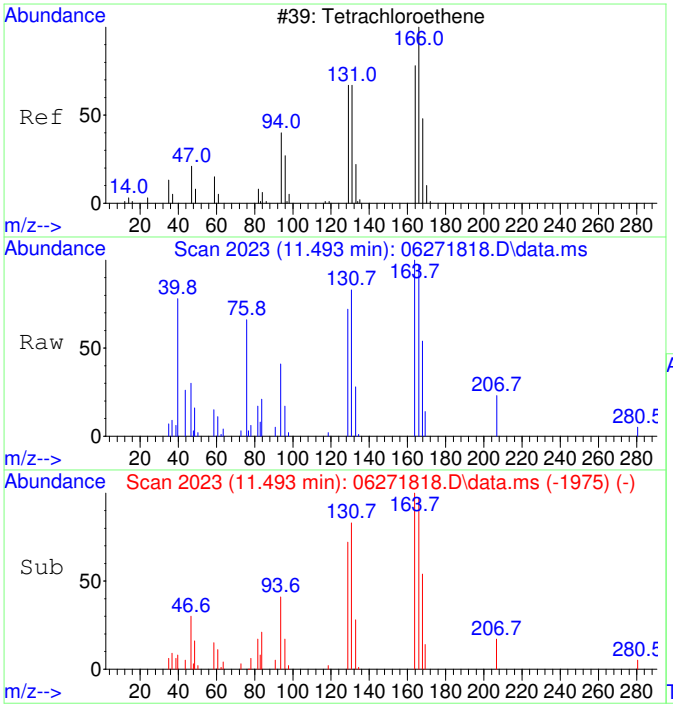


#38
1,1,2-Trichloroethane SCAN
Concen: 116.84 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.199 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 97 Resp: 538

Ion	Ratio	Lower	Upper
97	100		
83	313.9	63.6	123.6#
61	189.2	44.9	104.9#
99	0.0	37.0	97.0#

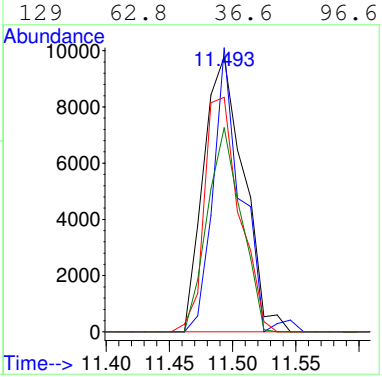


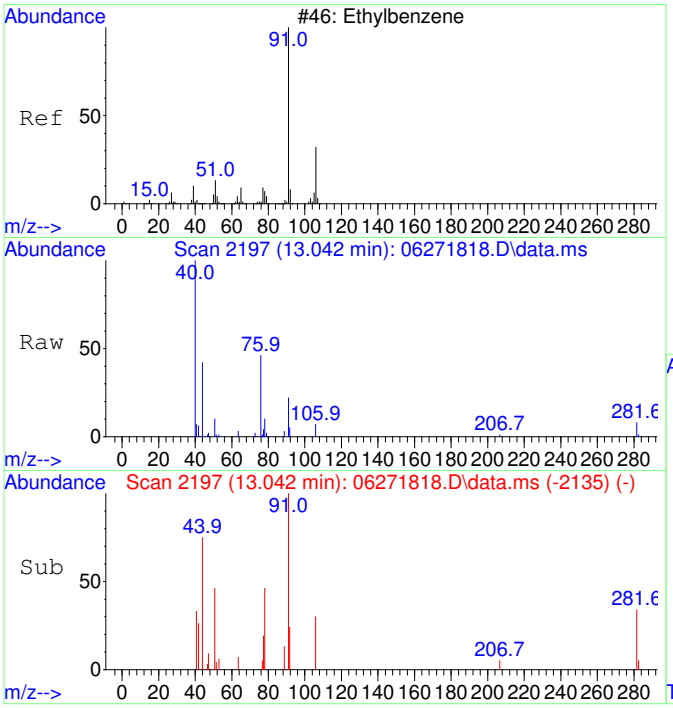


#39
Tetrachloroethene SCAN
Concen: 4106.59 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:166 Resp: 21654

Ion	Ratio	Lower	Upper
166	100		
164	71.9	43.3	103.3
131	74.6	35.6	95.6
129	62.8	36.6	96.6

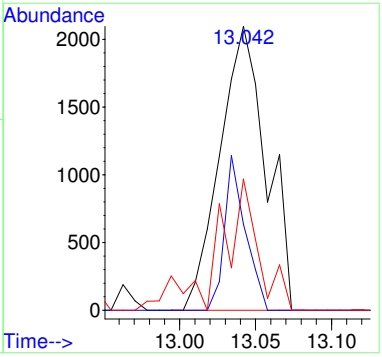


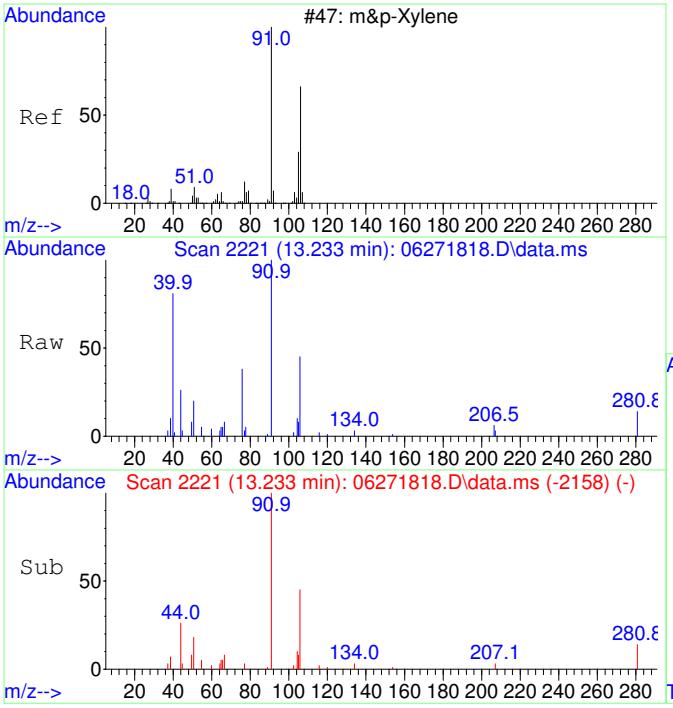


#42
Ethylbenzene SCAN
Concen: 159.82 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 91 Resp: 4464

Ion	Ratio	Lower	Upper
91	100		
106	24.4	3.2	63.2
51	28.7	0.0	40.1

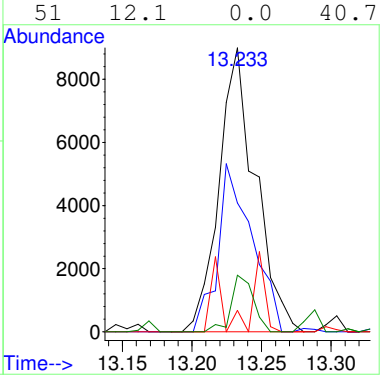


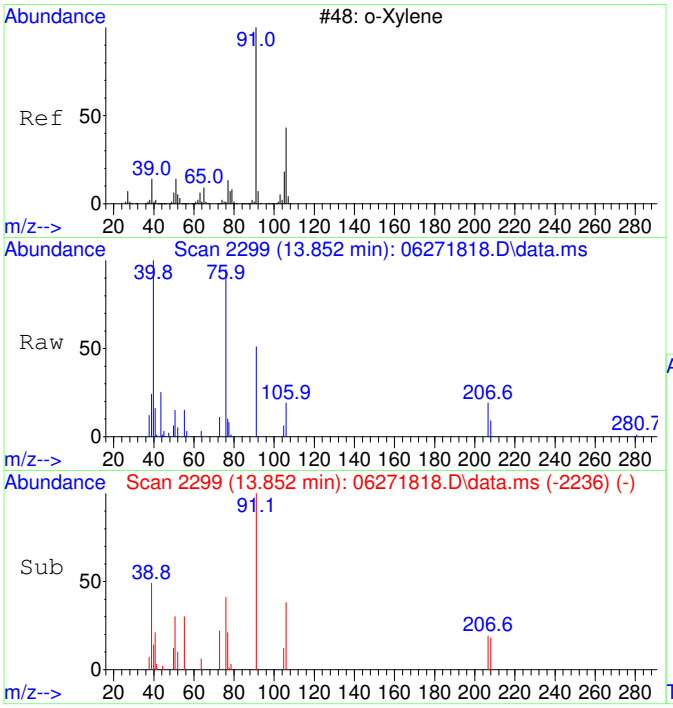


#43
m&p-Xylene SCAN
Concen: 422.74 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 91 Resp: 16390

Ion	Ratio	Lower	Upper
91	100		
106	55.6	20.1	80.1
105	8.9	0.0	51.1
51	12.1	0.0	40.7

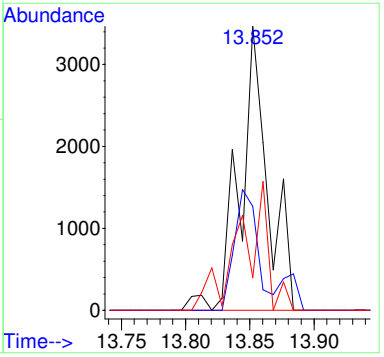


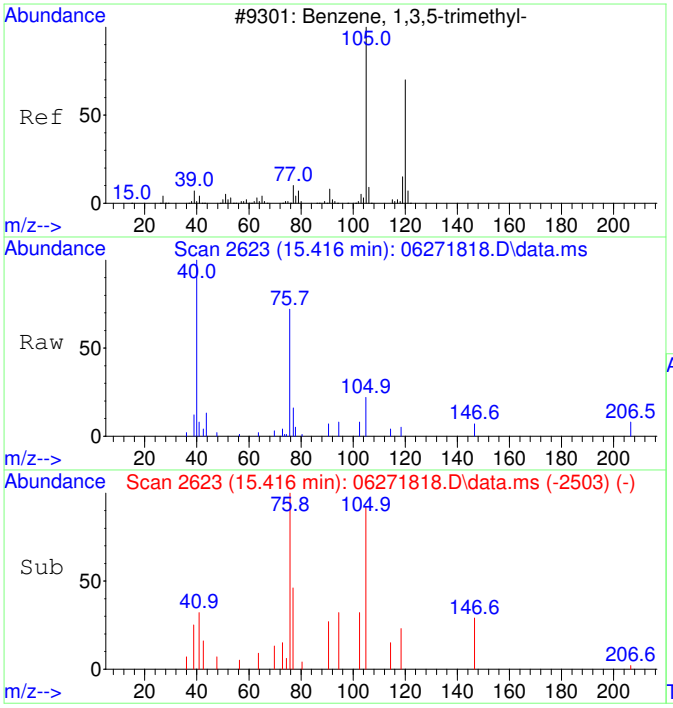


#44
o-Xylene SCAN
Concen: 235.83 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. -0.000 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion: 91 Resp: 5204

Ion	Ratio	Lower	Upper
91	100		
106	30.9	21.3	81.3
105	46.3	0.0	55.2

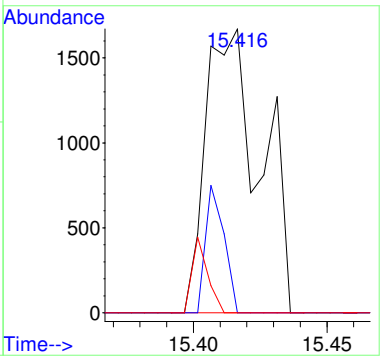


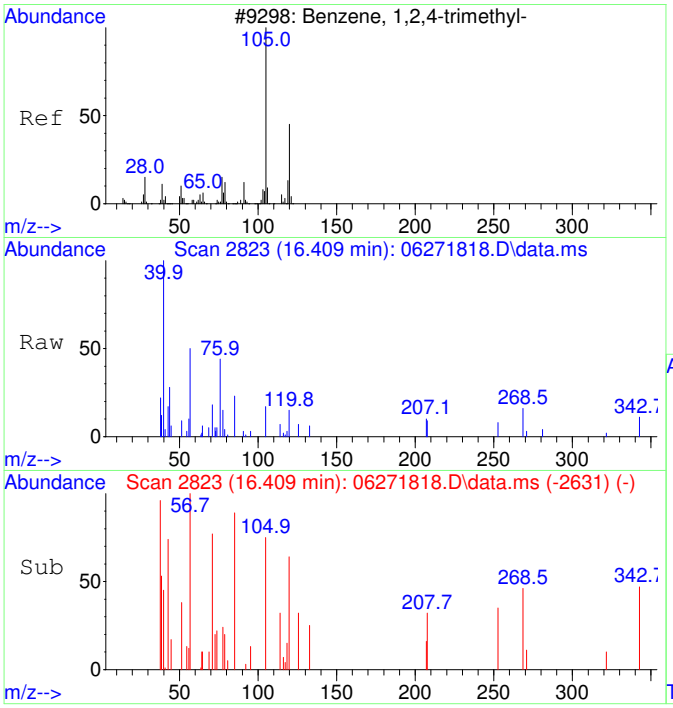


#46
1,3,5-Trimethylbenzene SCAN
Concen: 109.01 ug/L
RT: 15.416 min Scan# 2623
Delta R.T. 0.003 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:105 Resp: 2385

Ion	Ratio	Lower	Upper
105	100		
120	15.2	16.8	76.8#
119	7.5	0.0	41.5

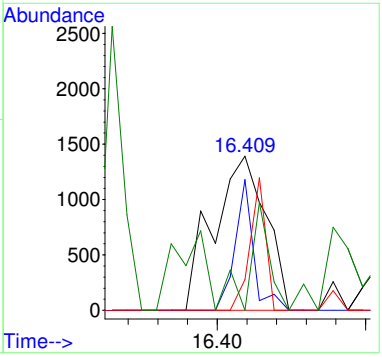




#47
1,2,4-Trimethylbenzene SCAN
Concen: 76.71 ug/L
RT: 16.409 min Scan# 2823
Delta R.T. 0.455 min
Lab File: 06271818.D
Acq: 27 Jun 2018 16:17

Tgt Ion:105 Resp: 1720

Ion	Ratio	Lower	Upper
105	100		
120	29.7	15.4	75.4
119	25.5	0.0	41.7
77	27.6	0.0	42.0



S18F083-IBL2

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271819.D
Acq On : 27 Jun 2018 16:41
InstName : AG5975C
Operator : TD
Sample : S18F083-IBL2 (Sig #1); S18F038-IBL2 (Sig #2)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 09:32:56 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

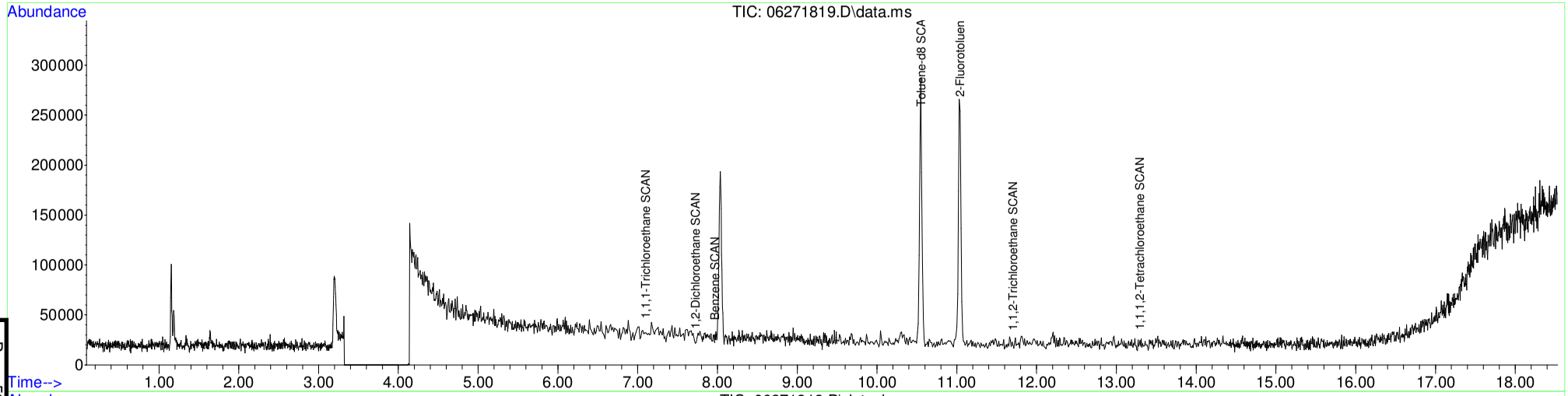
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	360701	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	305770	5218.92	ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.38%			
Target Compounds						Qvalue
9] Benzene	7.551	78	1760	30.39	ug/L	68
25) 2-Fluorotoluene SCAN	11.042	109	215845	5135.34	ug/L	93
31) 1,1,1-Trichloroethane ...	7.100	97	793	54.02	ug/L #	26
33) Benzene SCAN	7.969	78	3954	90.33	ug/L	67
34) 1,2-Dichloroethane SCAN	7.720	62	311	20.83	ug/L #	39
36) Toluene-d8 SCAN	10.549	98	196996	5184.64	ug/L	99
38) 1,1,2-Trichloroethane ...	11.703	97	191	20.54	ug/L #	10
41) 1,1,1,2-Tetrachloroeth...	13.288	131	255	24.26	ug/L #	51

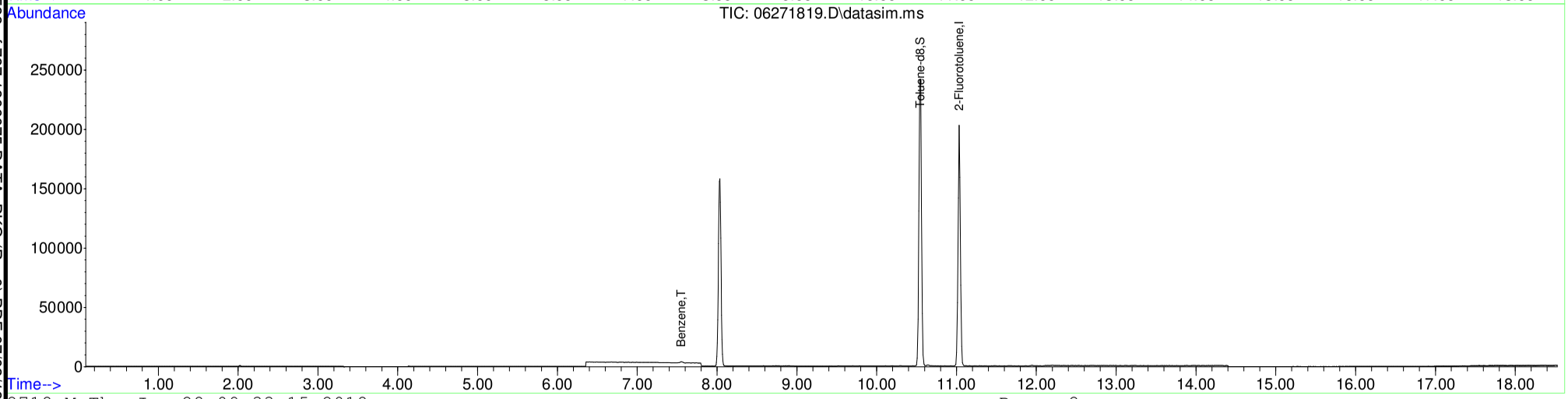
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271819.D
Acq On : 27 Jun 2018 16:41
InstName : AG5975C
Operator : TD
Sample : S18F083-IBL2 (Sig #1); S18F038-IBL2 (Sig #2)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 09:32:56 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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S18F083-IBL3

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271820.D
Acq On : 27 Jun 2018 17:04
InstName : AG5975C
Operator : TD
Sample : S18F083-IBL3 (Sig #1); S18F038-IBL3 (Sig #2)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 09:33:30 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 28 07:20:56 2018
Response via : Initial Calibration

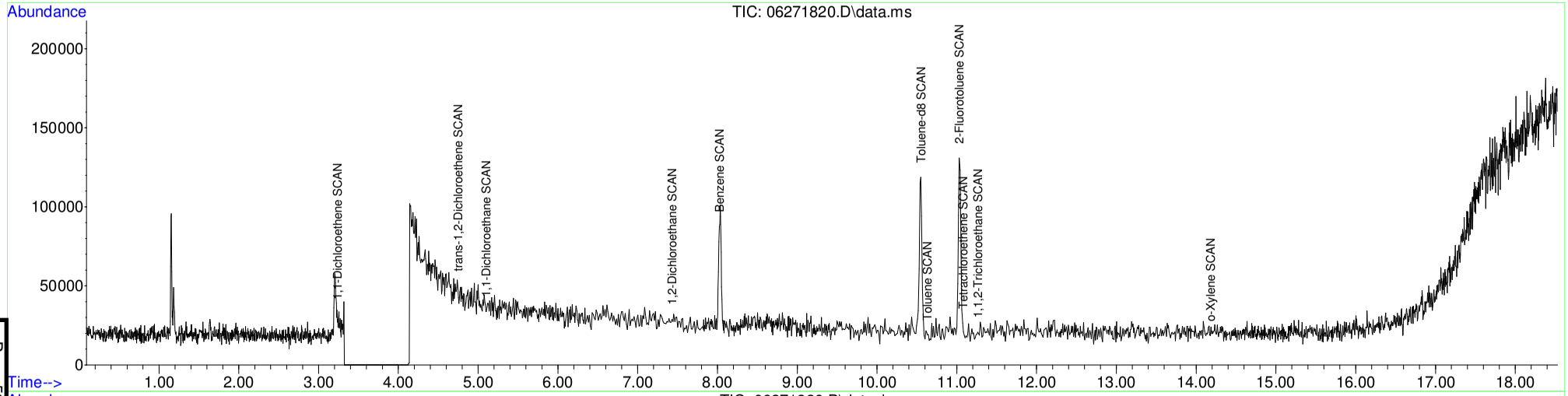
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	152989	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	130518	5252.22	ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 105.04%			
Target Compounds						Qvalue
9] Benzene	7.552	78	809	32.93	ug/L #	36
25) 2-Fluorotoluene SCAN	11.032	109	87228	4892.94	ug/L	99
26) 1,1-Dichloroethene SCAN	3.233	61	108	24.28	ug/L #	30
27) trans-1,2-Dichloroethe...	4.746	61	507	97.90	ug/L #	33
28) 1,1-Dichloroethane SCAN	5.104	63	1080	163.92	ug/L #	94
33) Benzene SCAN	8.024	78	1940	104.49	ug/L	75
34) 1,2-Dichloroethane SCAN	7.429	62	315	49.75	ug/L #	1
36) Toluene-d8 SCAN	10.549	98	77047	4780.83	ug/L	99
37) Toluene SCAN	10.633	91	514	24.97	ug/L #	31
38) 1,1,2-Trichloroethane ...	11.262	97	230	58.30	ug/L #	10
39) Tetrachloroethene SCAN	11.074	166	682	150.97	ug/L #	15
44) o-Xylene SCAN	14.178	91	683	36.13	ug/L	90

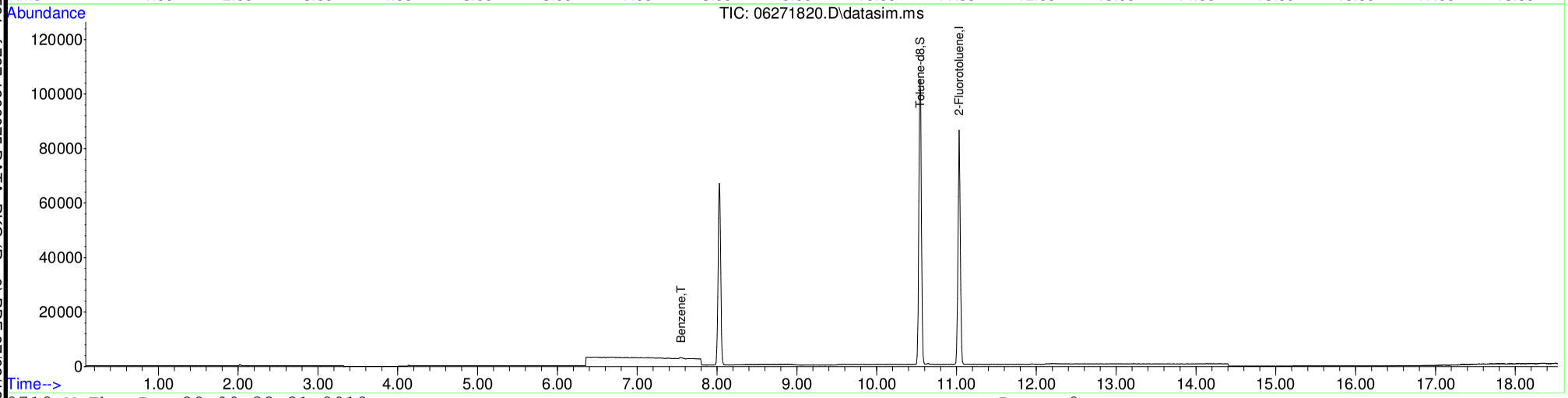
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271820.D
Acq On : 27 Jun 2018 17:04
InstName : AG5975C
Operator : TD
Sample : S18F083-IBL3 (Sig #1); S18F038-IBL3 (Sig #2)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 09:33:30 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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1806075-04RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271821.D
Acq On : 27 Jun 2018 17:41
InstName : AG5975C
Operator : TD
Sample : 1806075-04RE1
Misc : RE-RUN CHECK FOR C.O.
ALS Vial : 19 Sample Multiplier: 1

REPORT

Quant Time: Jun 28 07:06:38 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

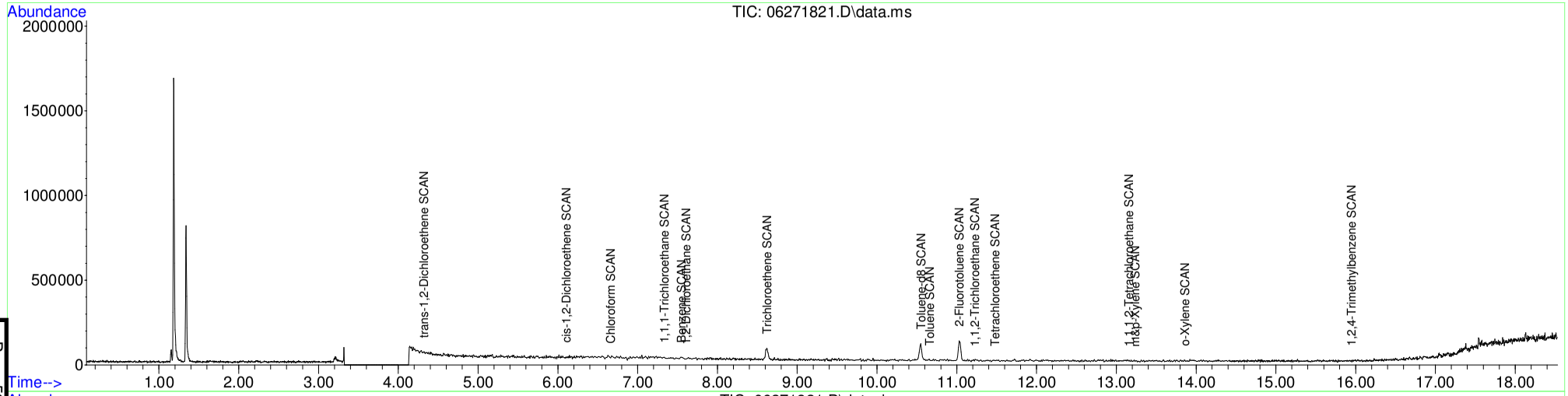
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	148425	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	125414	5202.02	ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.04%			
Target Compounds						Qvalue
3] trans-1,2-Dichloroethene	4.303	61	372	56.05	ug/L	95
5] cis-1,2-Dichloroethene	6.101	61	426	52.28	ug/L	82
6] Chloroform	6.676	83	3811	434.32	ug/L	97
8] Carbon tetrachloride	7.211	117	997	121.86	ug/L	83
9] Benzene	7.540	78	2249	94.37	ug/L	65
10] 1,2-Dichloroethane	7.588	62	180	23.44	ug/L #	1
11] Trichloroethene	8.618	130	38450	5870.44	ug/L	100
13] Toluene	10.645	91	4464	138.10	ug/L	100
15] Tetrachloroethene	11.495	166	1829	200.83	ug/L	97
18] Ethylbenzene	13.035	91	1033	26.63	ug/L #	94
19] m&p-Xylene	13.226	91	2656	88.71	ug/L	95
20] o-Xylene	13.846	91	1105	34.85	ug/L	94
23] 1,2,4-Trimethylbenzene	15.954	105	1443	40.21	ug/L	88
25) 2-Fluorotoluene SCAN	11.032	109	95018	5493.81	ug/L	98
27) trans-1,2-Dichloroethe...	4.315	61	702	139.72	ug/L #	23
29) cis-1,2-Dichloroethene...	6.106	61	196	35.46	ug/L #	30
30) Chloroform SCAN	6.662	83	3625	534.24	ug/L #	36
31) 1,1,1-Trichloroethane ...	7.331	97	1315	217.71	ug/L #	26
33) Benzene SCAN	7.550	78	2715	150.73	ug/L #	1
34) 1,2-Dichloroethane SCAN	7.611	62	454	73.91	ug/L #	39
35) Trichloroethene SCAN	8.617	130	23287	5283.17	ug/L	92
36) Toluene-d8 SCAN	10.549	98	75298	4815.98	ug/L	98
37) Toluene SCAN	10.664	91	4419	221.26	ug/L #	31
38) 1,1,2-Trichloroethane ...	11.221	97	676	176.63	ug/L #	10
39) Tetrachloroethene SCAN	11.483	166	1807	412.31	ug/L #	36
41) 1,1,1,2-Tetrachloroeth...	13.153	131	122	28.21	ug/L #	13
43) m&p-Xylene SCAN	13.233	91	2108	65.42	ug/L #	43
44) o-Xylene SCAN	13.860	91	558	30.42	ug/L #	73
47) 1,2,4-Trimethylbenzene...	15.948	105	669	35.90	ug/L #	45

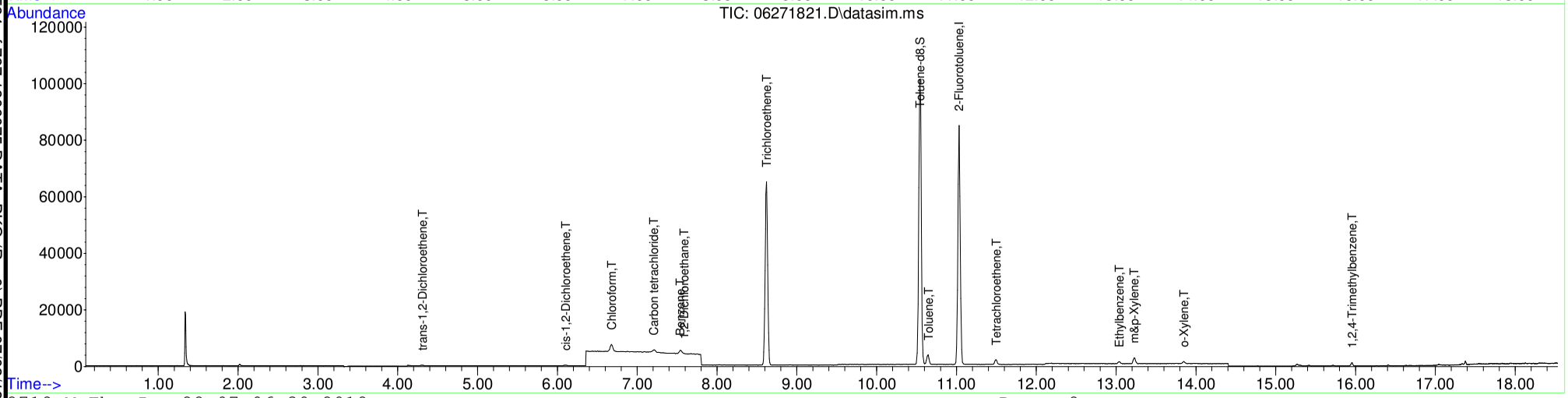
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271821.D
Acq On : 27 Jun 2018 17:41
InstName : AG5975C
Operator : TD
Sample : 1806075-04RE1
Misc : RE-RUN CHECK FOR C.O.
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 28 07:06:38 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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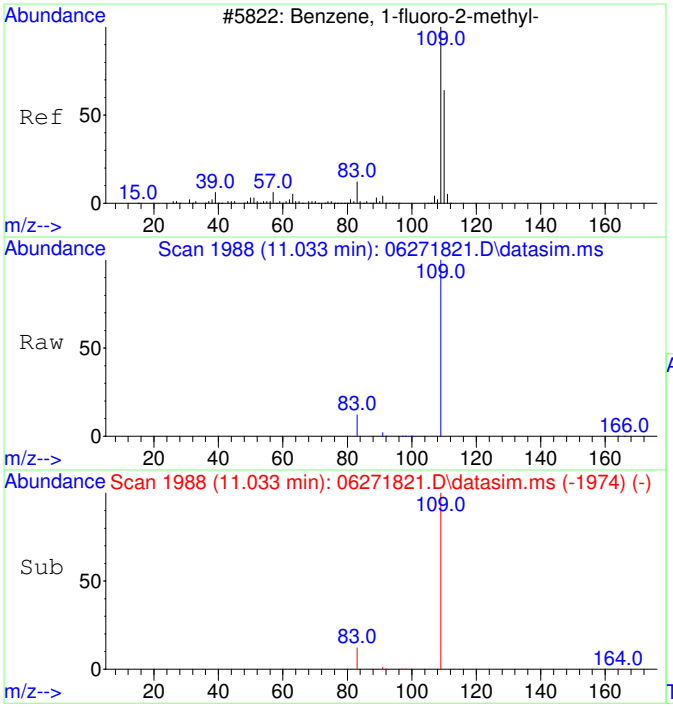
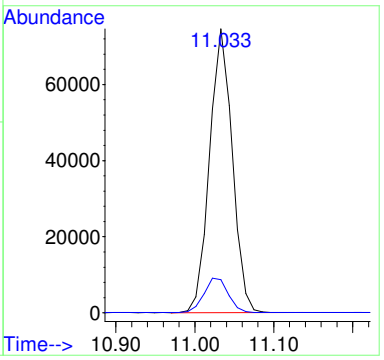
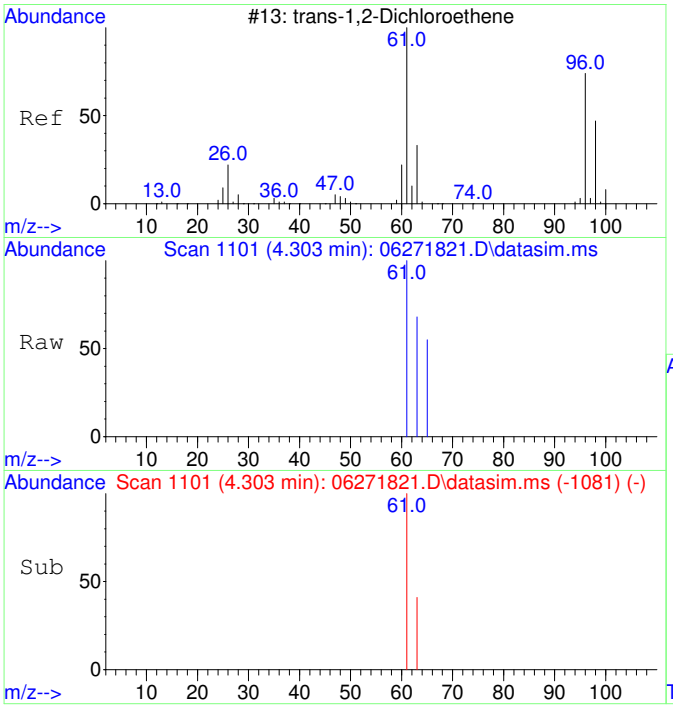


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:109 Resp: 148425

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	44.7

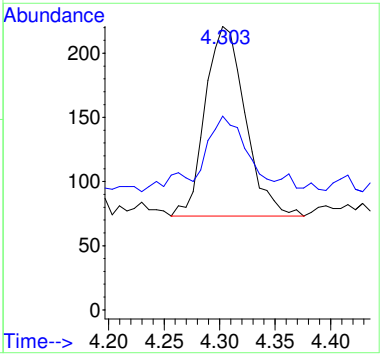


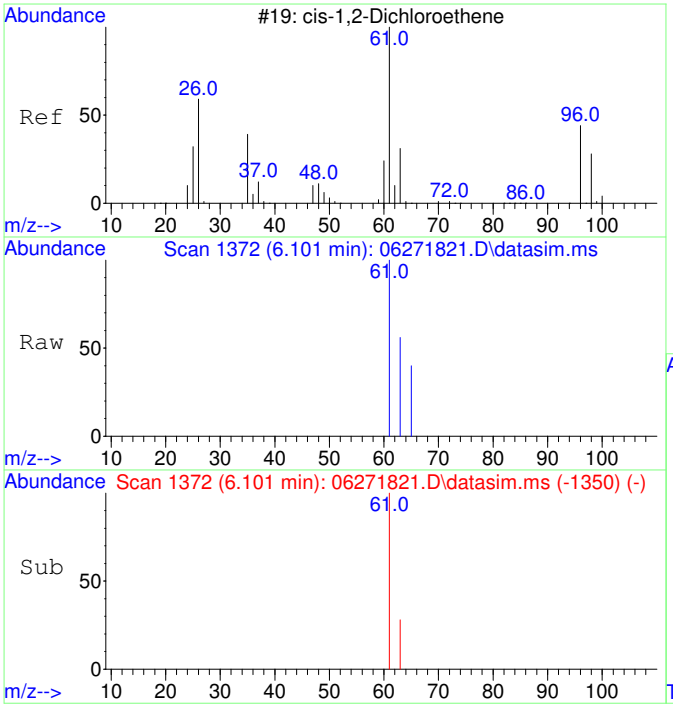


#3
trans-1,2-Dichloroethene
Concen: 56.05 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.020 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 61 Resp: 372

Ion	Ratio	Lower	Upper
61	100		
63	29.0	2.0	62.0

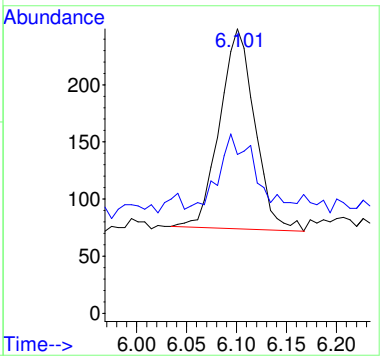


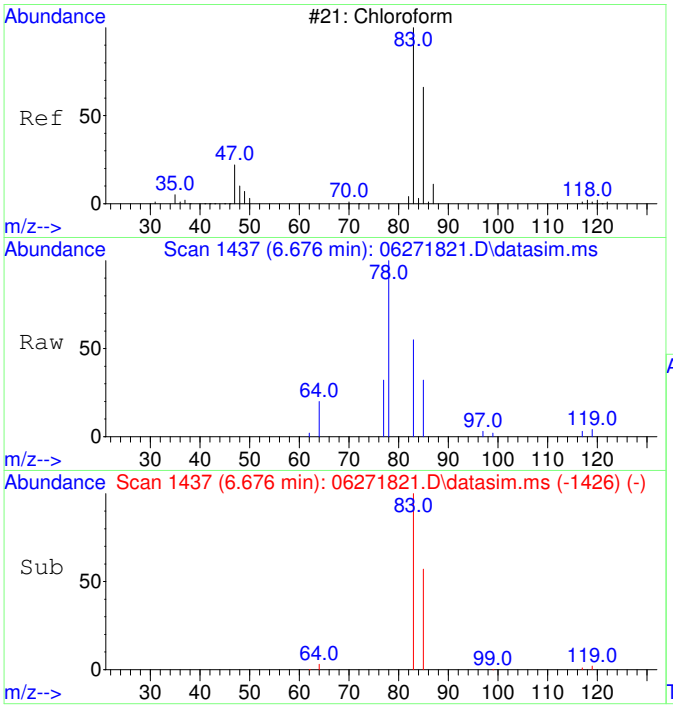


#5
cis-1,2-Dichloroethene
Concen: 52.28 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 61 Resp: 426

Ion	Ratio	Lower	Upper
61	100		
63	42.0	2.2	62.2

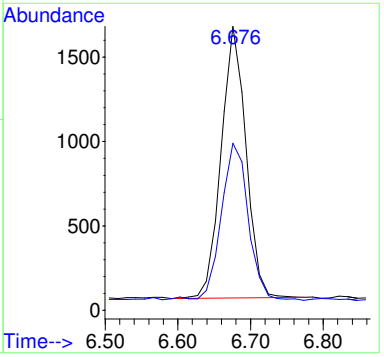


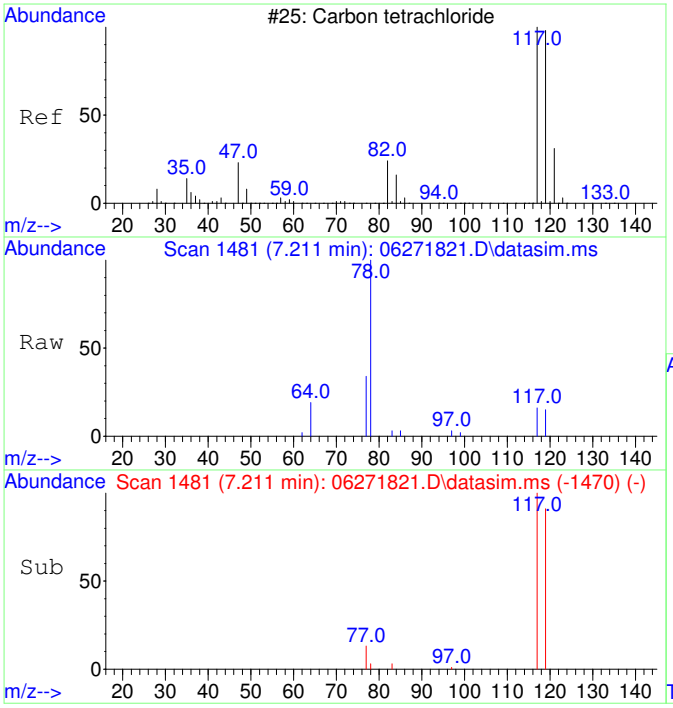


#6
Chloroform
Concen: 434.32 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 83 Resp: 3811

Ion	Ratio	Lower	Upper
83	100		
85	62.8	34.8	94.8

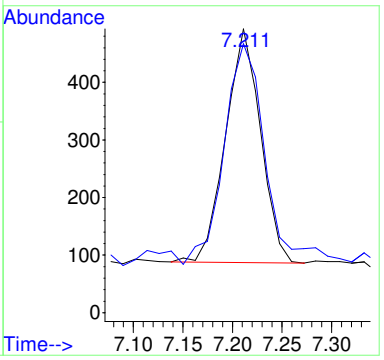


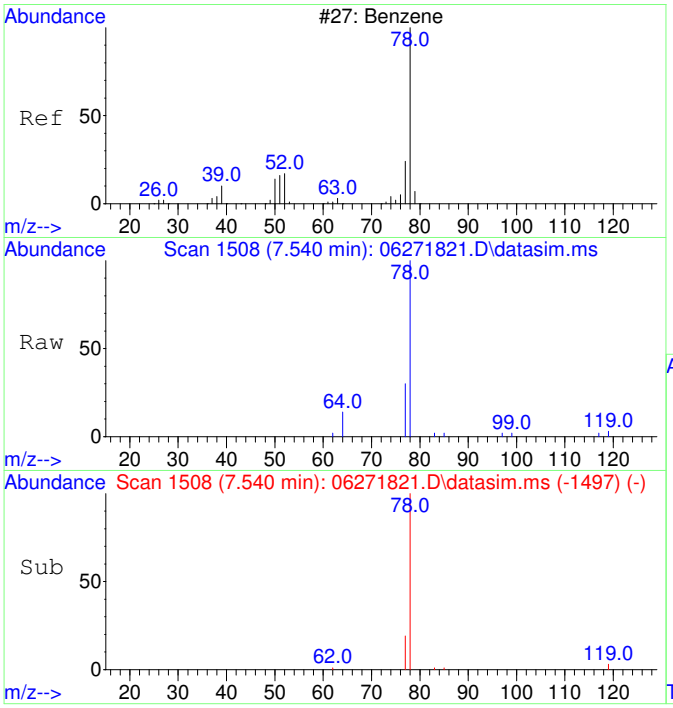


#8
Carbon tetrachloride
Concen: 121.86 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:117 Resp: 997

Ion	Ratio	Lower	Upper
117	100		
119	112.0	65.9	125.9

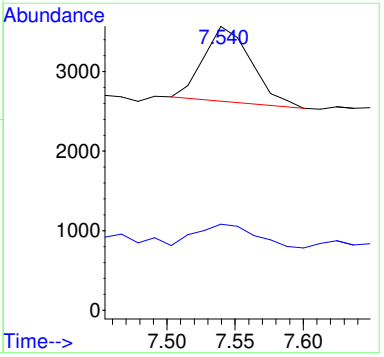


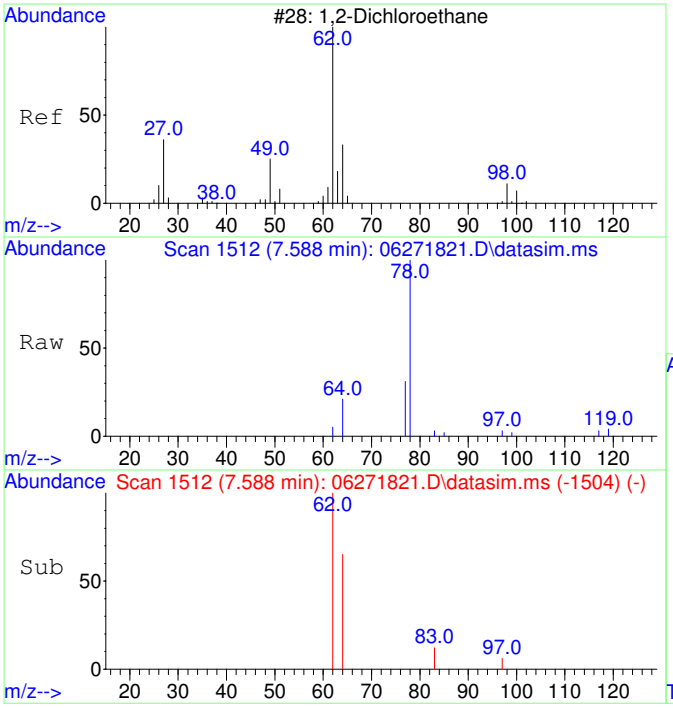


#9
Benzene
Concen: 94.37 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 78 Resp: 2249

Ion	Ratio	Lower	Upper
78	100		
77	40.0	0.0	53.0

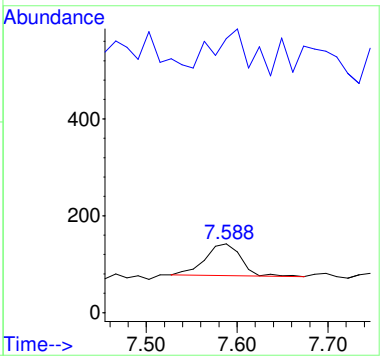


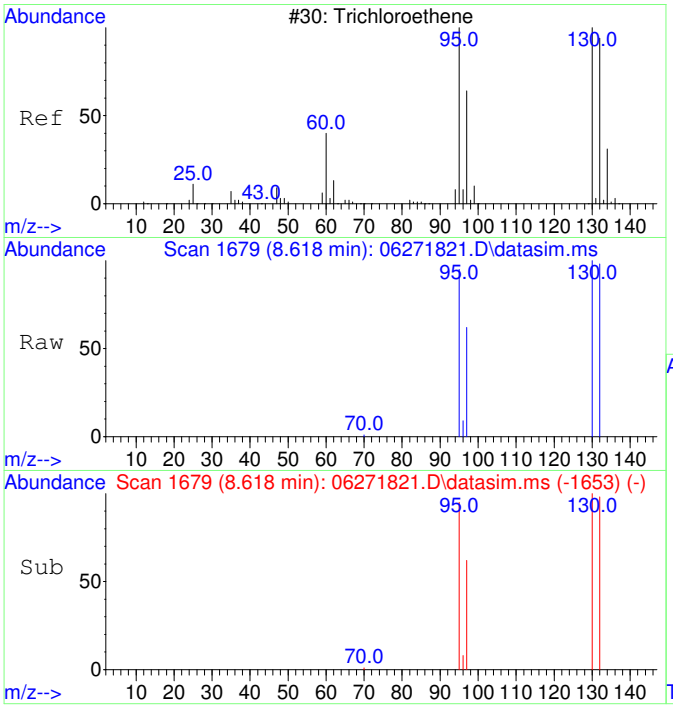


#10
1,2-Dichloroethane
Concen: 23.44 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 62 Resp: 180

Ion	Ratio	Lower	Upper
62	100		
64	147.2	2.3	62.3#

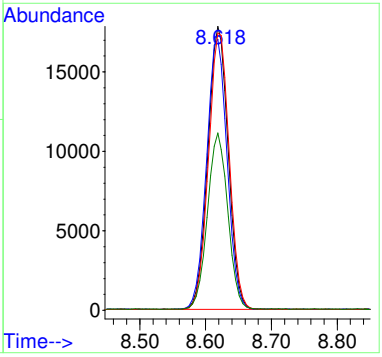


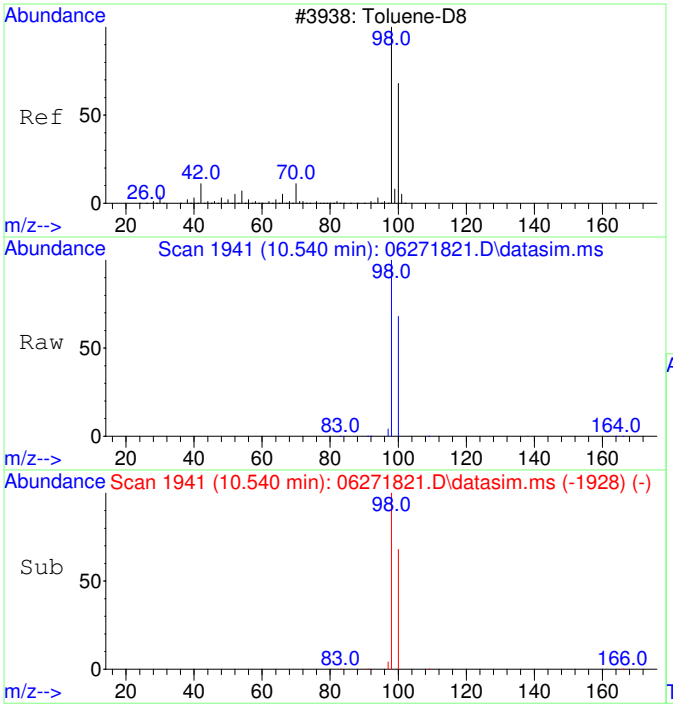


#11
Trichloroethene
Concen: 5870.44 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:130 Resp: 38450

Ion	Ratio	Lower	Upper
130	100		
95	96.4	66.0	126.0
132	99.4	78.8	118.8
97	61.9	41.9	81.9

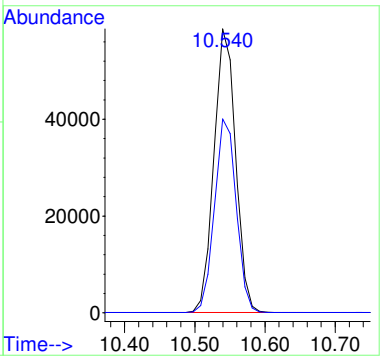


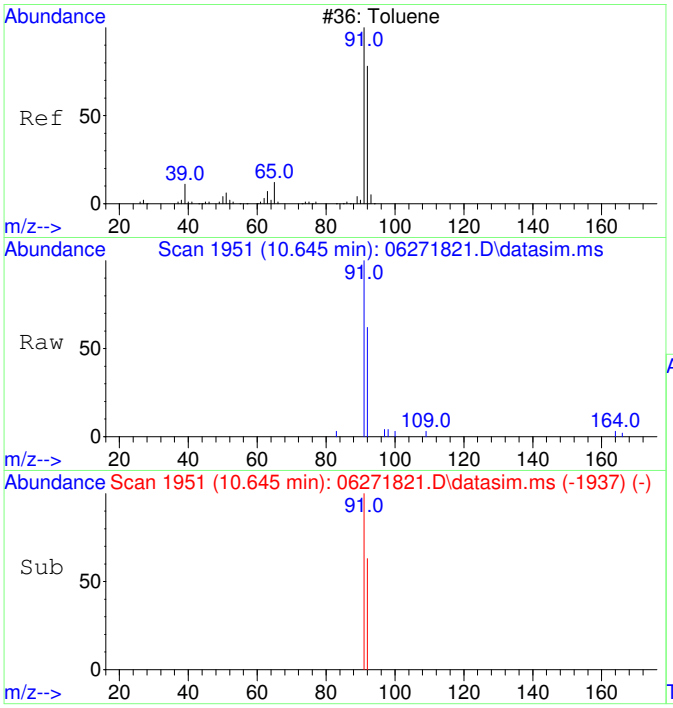


#12
Toluene-d8
Concen: 5202.02 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 98 Resp: 125414

Ion	Ratio	Lower	Upper
98	100		
100	68.6	38.7	98.7

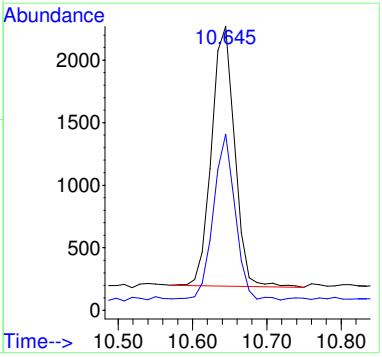


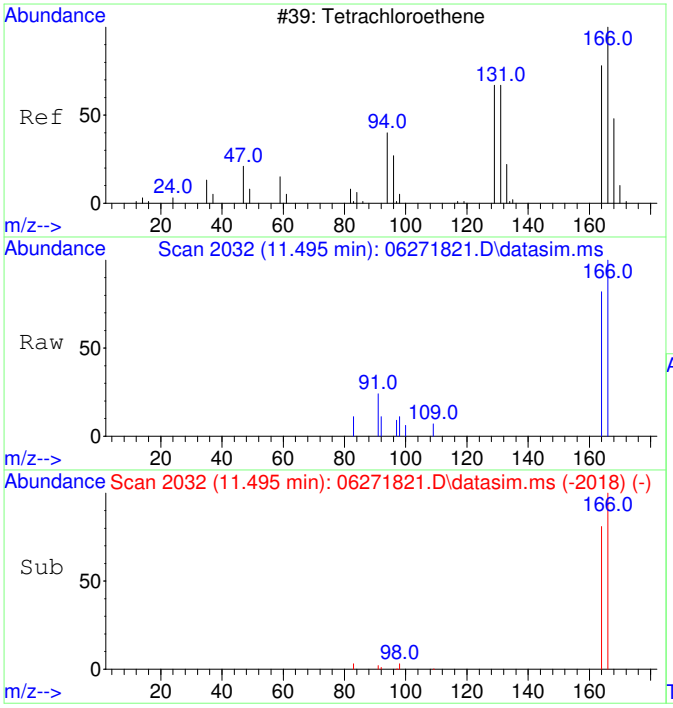


#13
Toluene
Concen: 138.10 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 91 Resp: 4464

Ion	Ratio	Lower	Upper
91	100		
92	59.8	30.0	90.0

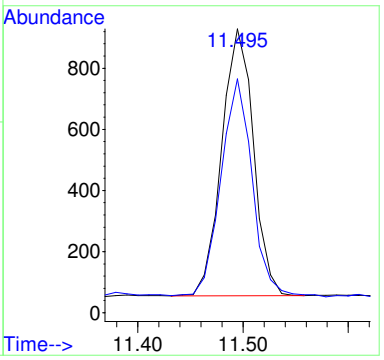


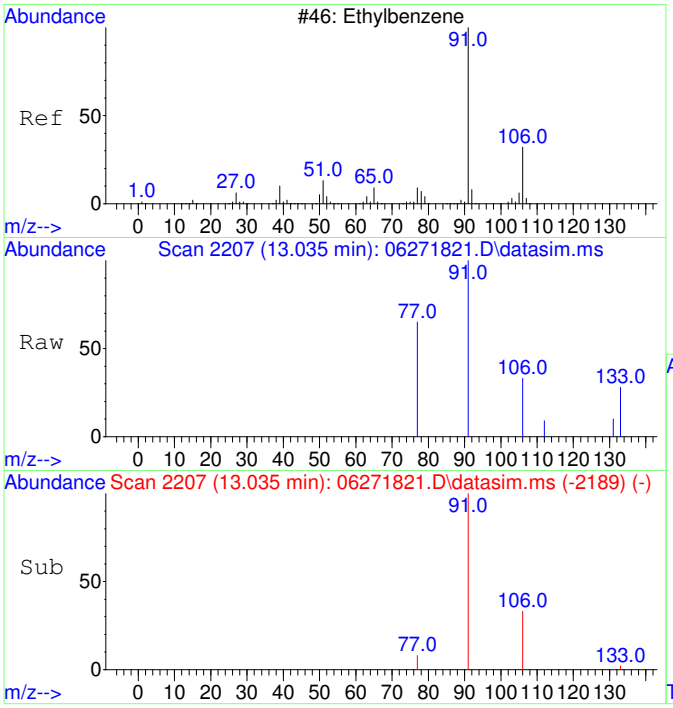


#15
Tetrachloroethene
Concen: 200.83 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:166 Resp: 1829

Ion	Ratio	Lower	Upper
166	100		
164	80.0	47.8	107.8

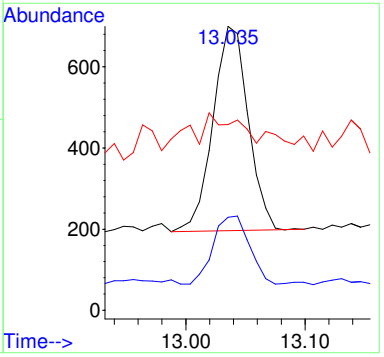


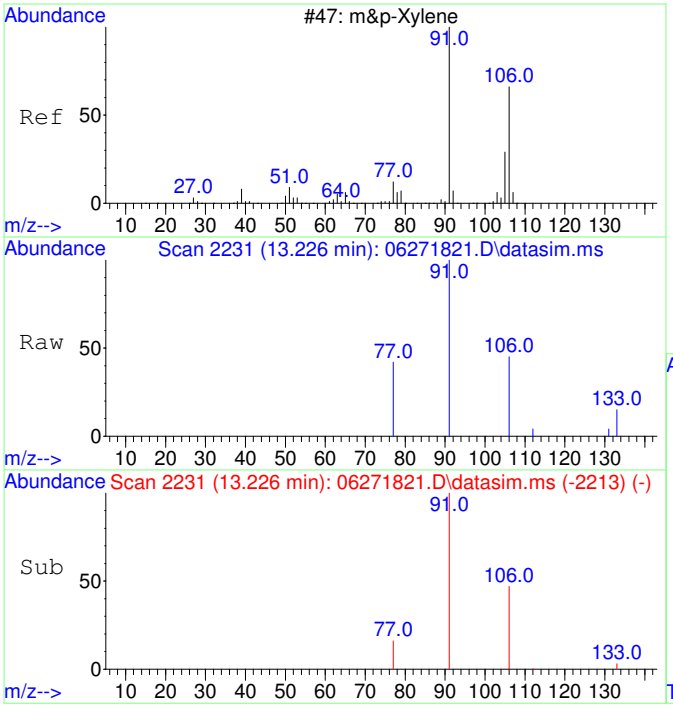


#18
Ethylbenzene
Concen: 26.63 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 91 Resp: 1033

Ion	Ratio	Lower	Upper
91	100		
106	33.7	2.8	62.8
77	0.0	0.0	38.6

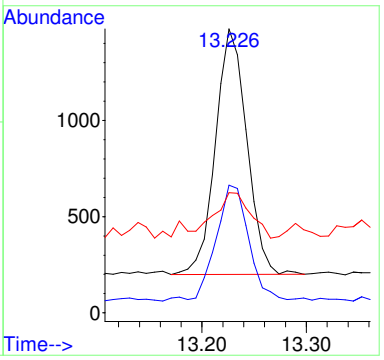


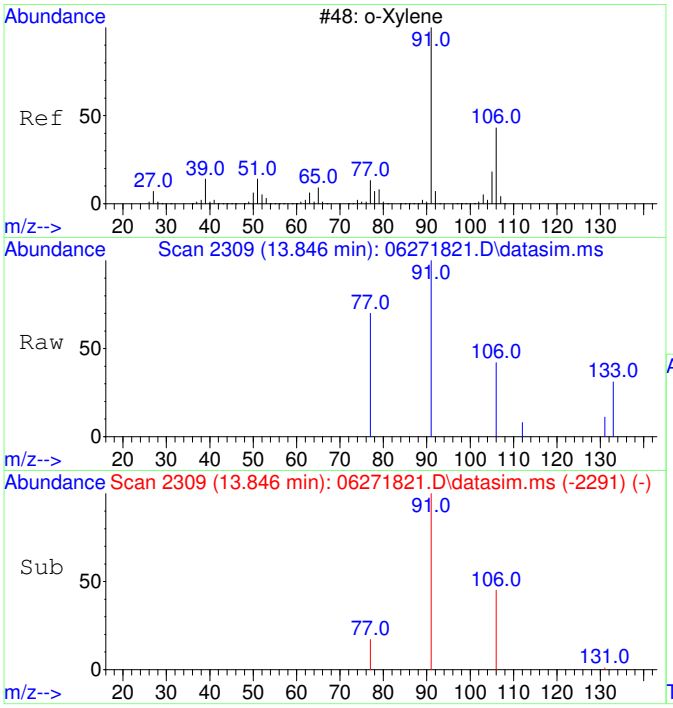


#19
m&p-Xylene
Concen: 88.71 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 91 Resp: 2656

Ion	Ratio	Lower	Upper
91	100		
106	50.1	21.2	81.2
77	20.6	0.0	42.9

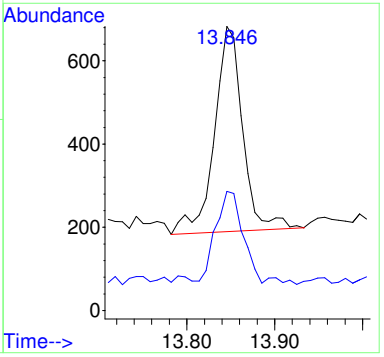


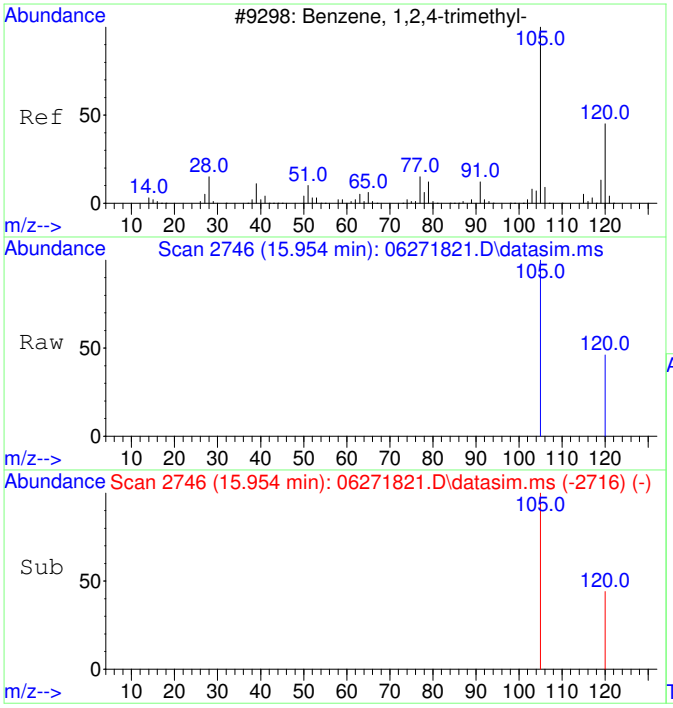


#20
o-Xylene
Concen: 34.85 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 91 Resp: 1105

Ion	Ratio	Lower	Upper
91	100		
106	44.1	18.3	78.3

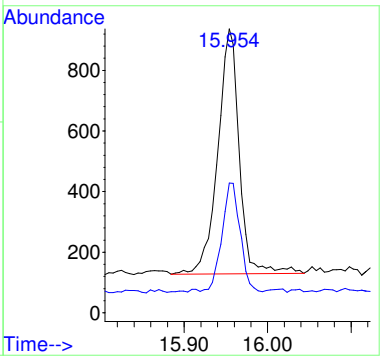


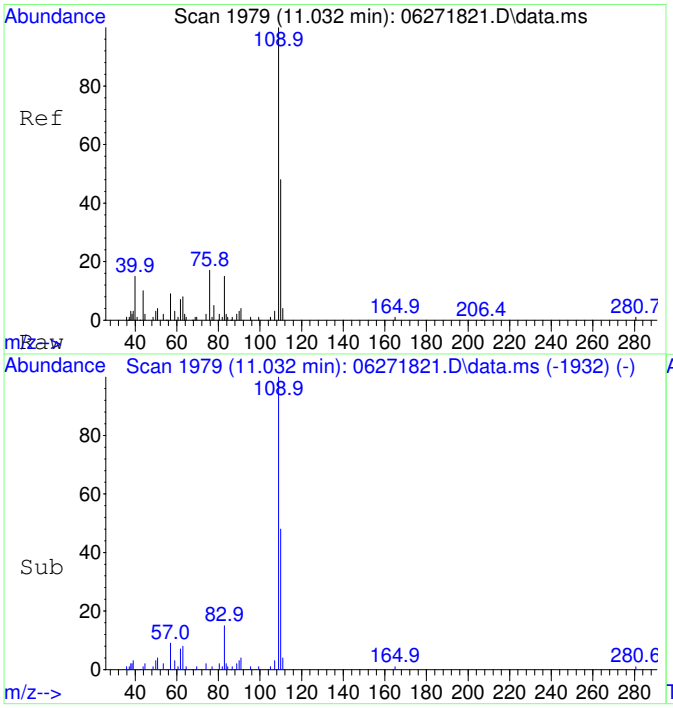


#23
1,2,4-Trimethylbenzene
Concen: 40.21 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.002 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:105 Resp: 1443

Ion	Ratio	Lower	Upper
105	100		
120	37.3	15.5	75.5

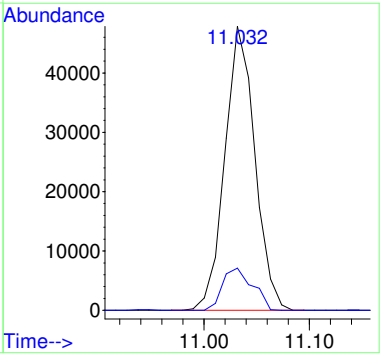


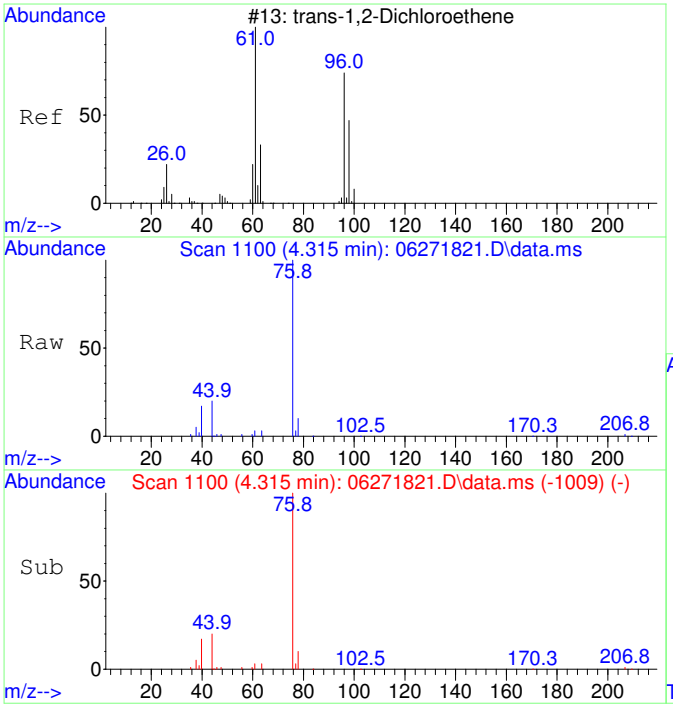


#25
2-Fluorotoluene SCAN
Concen: 5493.81 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.011 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:109 Resp: 95018

Ion	Ratio	Lower	Upper
109	100		
83	15.0	0.0	45.7

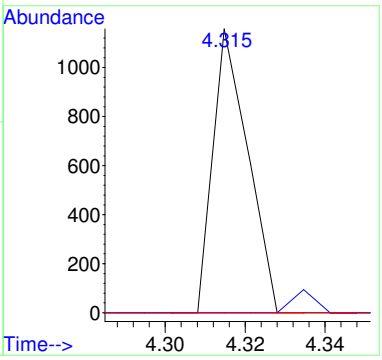


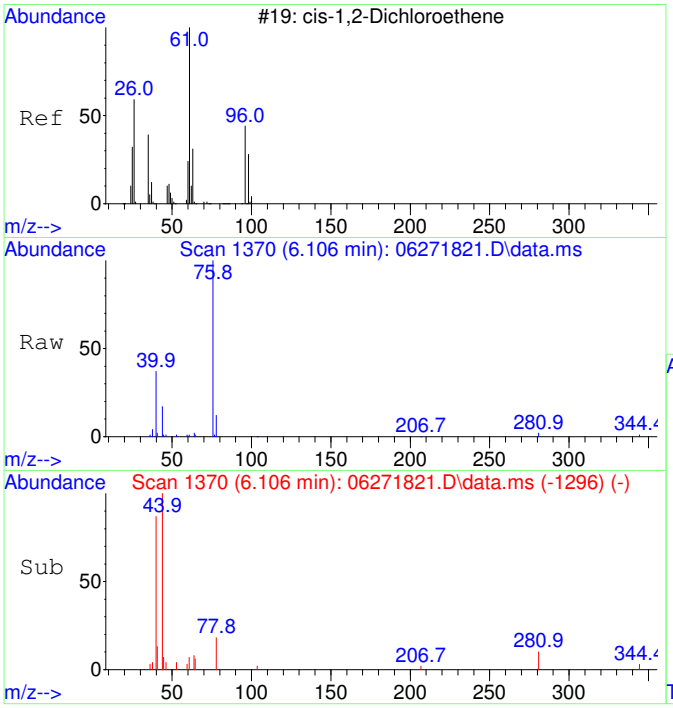


#27
trans-1,2-Dichloroethene SCAN
Concen: 139.72 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. -0.020 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 61 Resp: 702

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

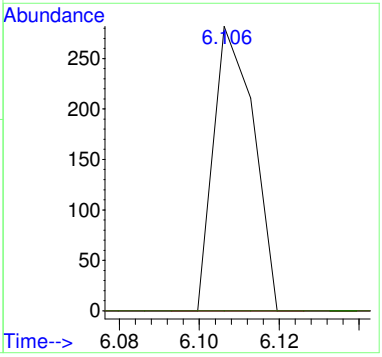


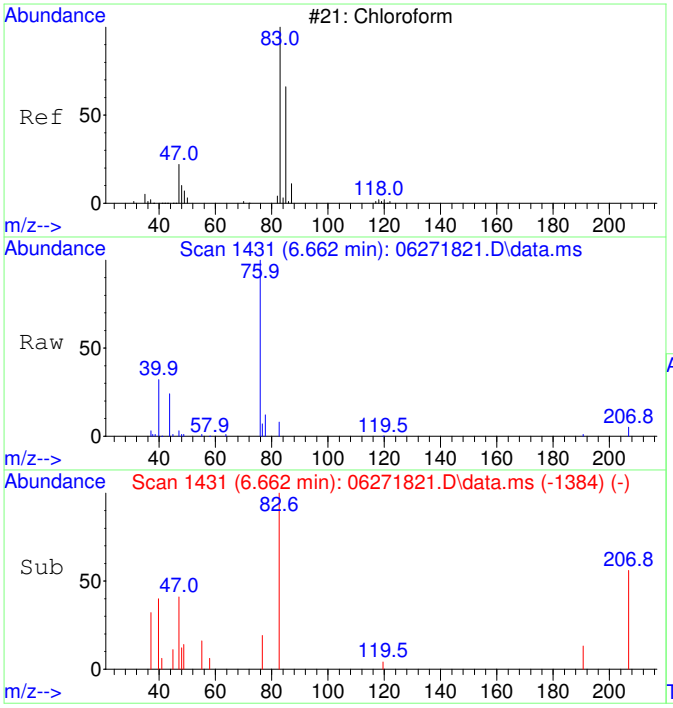


#29
cis-1,2-Dichloroethene SCAN
Concen: 35.46 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 61 Resp: 196

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#

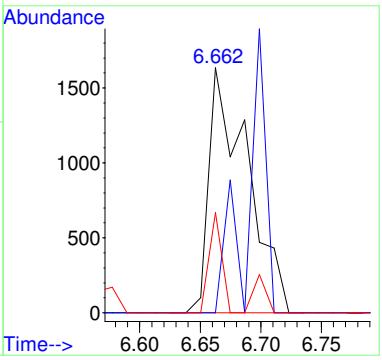


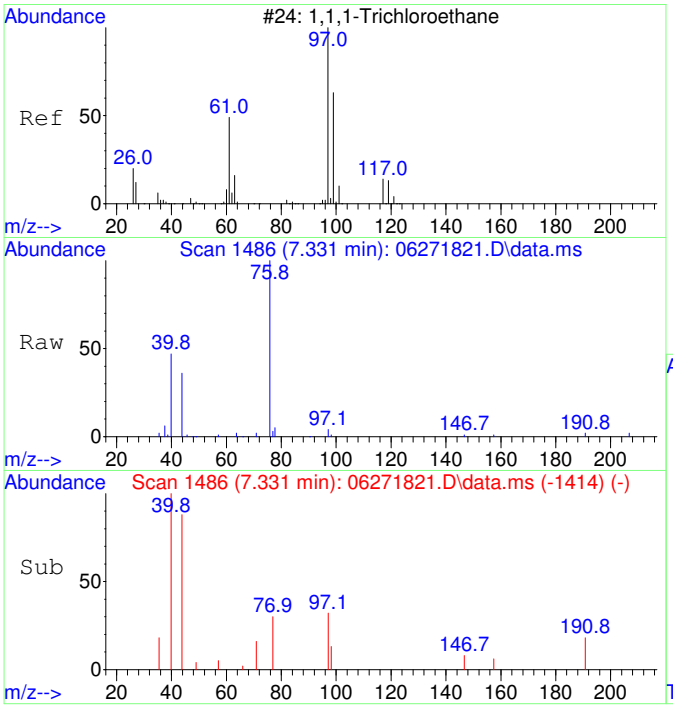


#30
Chloroform SCAN
Concen: 534.24 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. -0.037 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 83 Resp: 3625

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	13.5	0.0	57.9

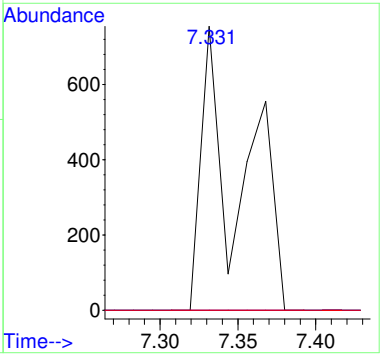


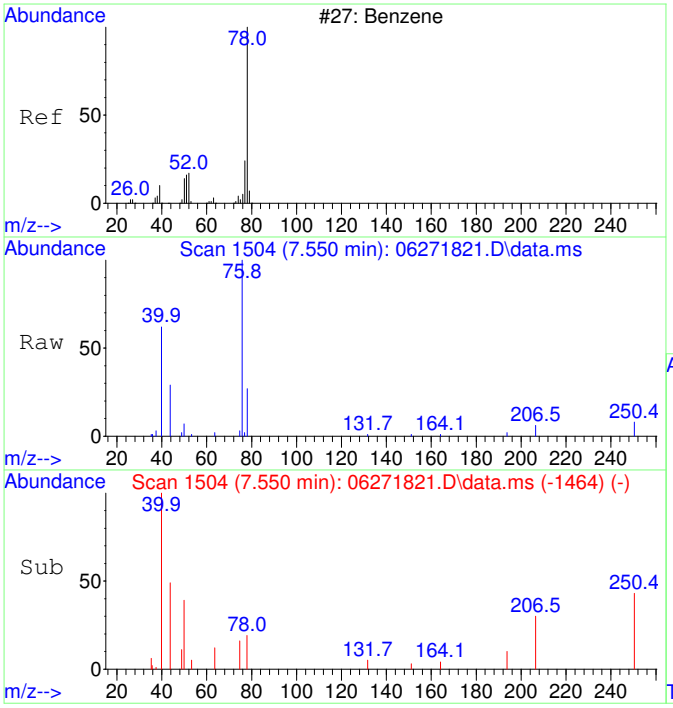


#31
1,1,1-Trichloroethane SCAN
Concen: 217.71 ug/L
RT: 7.331 min Scan# 1486
Delta R.T. 0.377 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 97 Resp: 1315

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

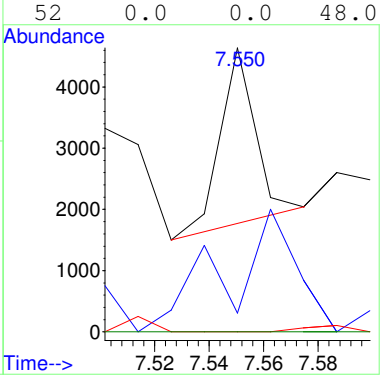


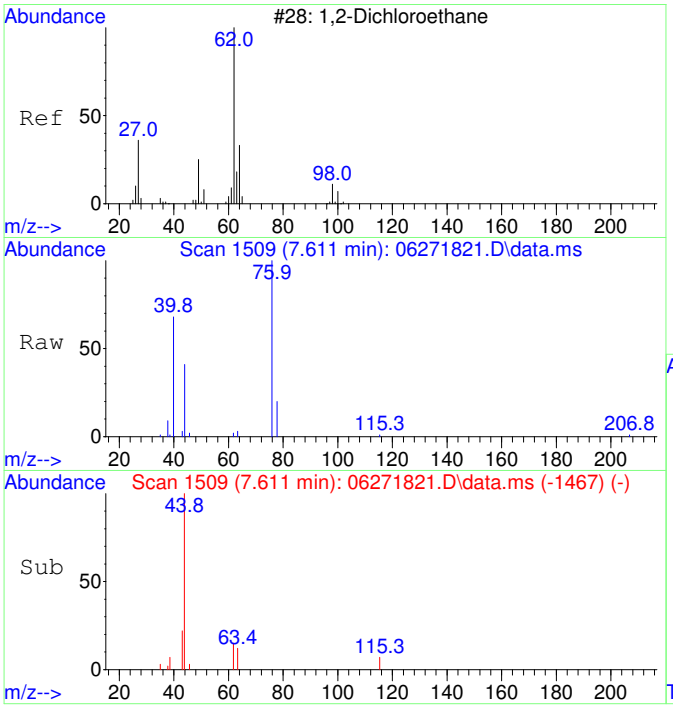


#33
Benzene SCAN
Concen: 150.73 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.012 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 78 Resp: 2715

Ion	Ratio	Lower	Upper
78	100		
77	141.5	3.0	63.0#
51	0.0	0.0	56.4
52	0.0	0.0	48.0

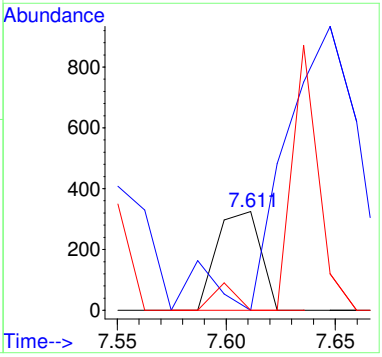


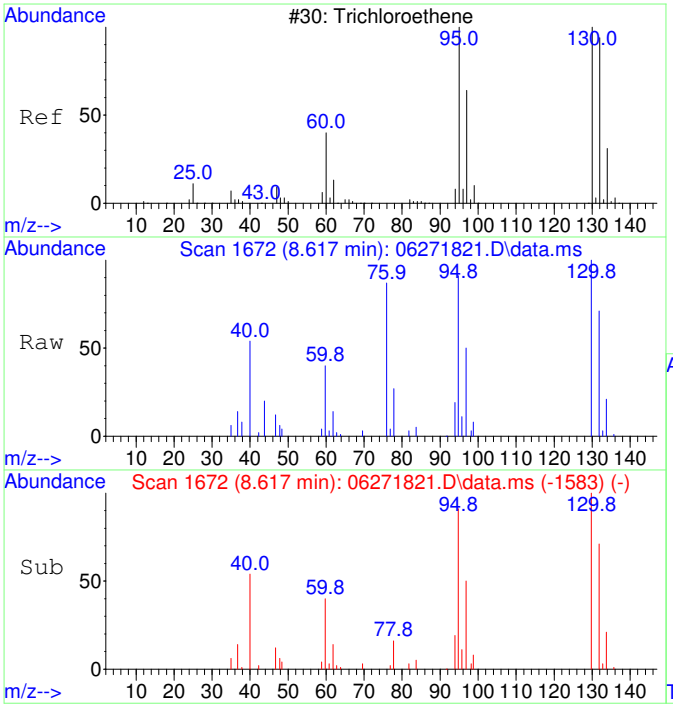


#34
1,2-Dichloroethane SCAN
Concen: 73.91 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 62 Resp: 454

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

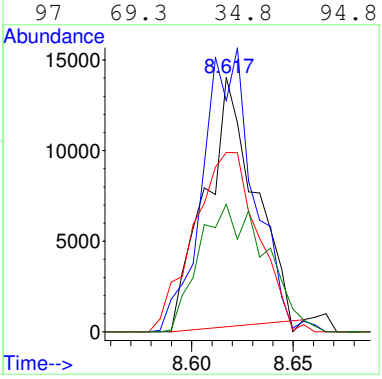


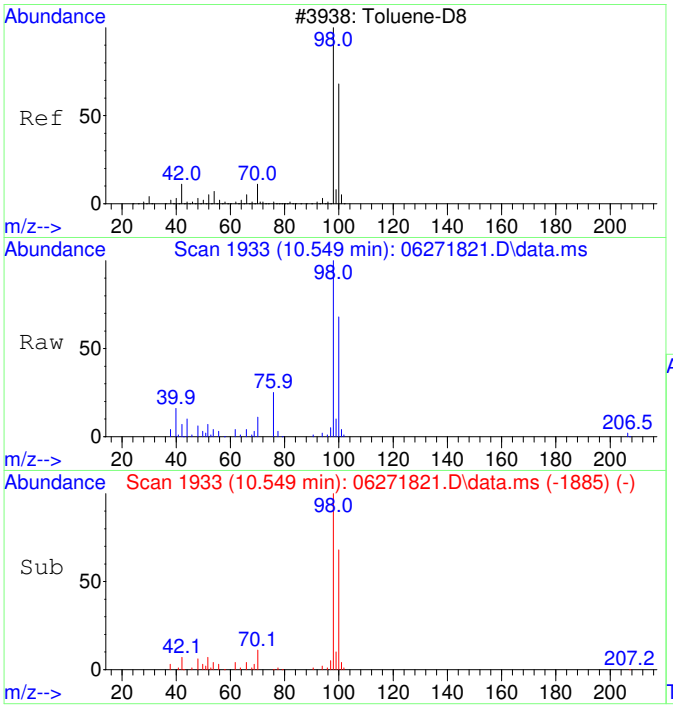


#35
Trichloroethene SCAN
Concen: 5283.17 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. -0.016 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:130 Resp: 23287

Ion	Ratio	Lower	Upper
130	100		
95	118.6	70.5	130.5
132	93.6	63.8	123.8
97	69.3	34.8	94.8

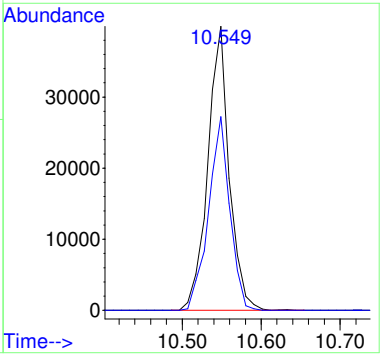


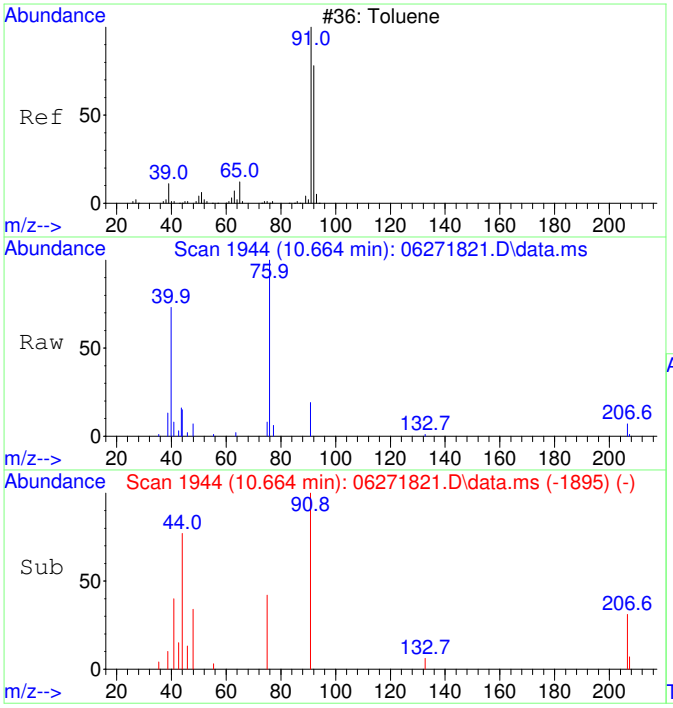


#36
Toluene-d8 SCAN
Concen: 4815.98 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 98 Resp: 75298

Ion	Ratio	Lower	Upper
98	100		
100	67.5	39.5	99.5

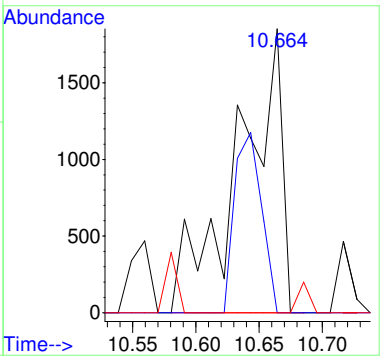


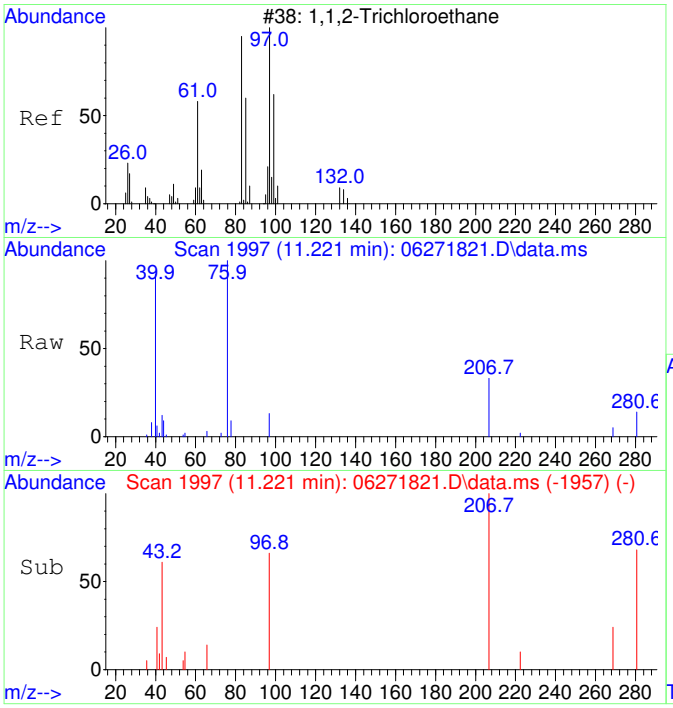


#37
Toluene SCAN
Concen: 221.26 ug/L
RT: 10.664 min Scan# 1944
Delta R.T. 0.010 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 91 Resp: 4419

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

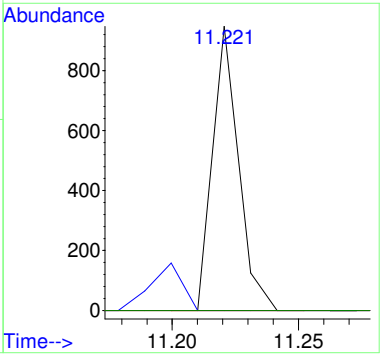


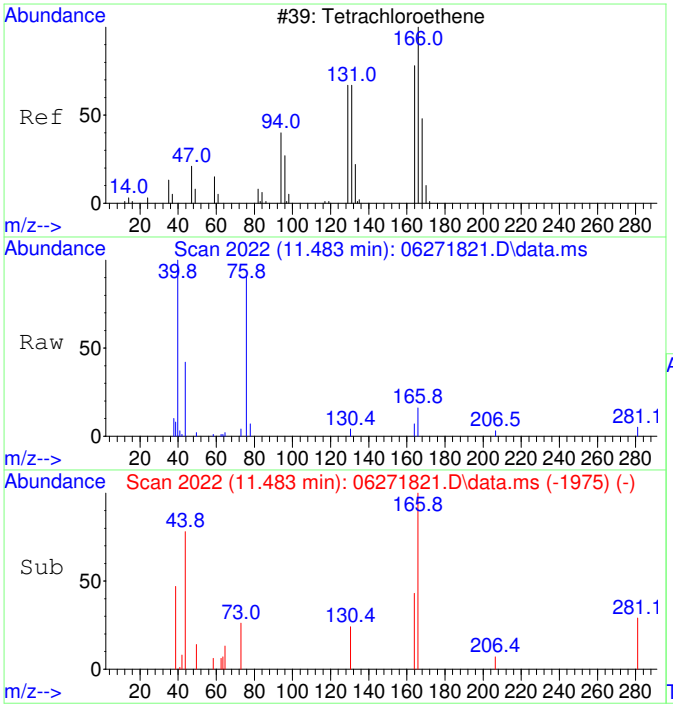


#38
1,1,2-Trichloroethane SCAN
Concen: 176.63 ug/L
RT: 11.221 min Scan# 1997
Delta R.T. -0.084 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 97 Resp: 676

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#

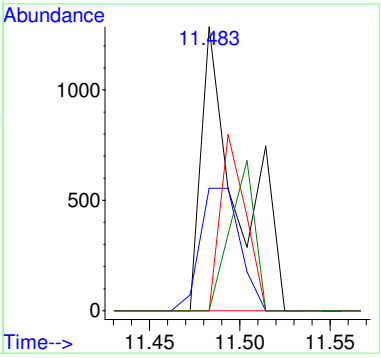


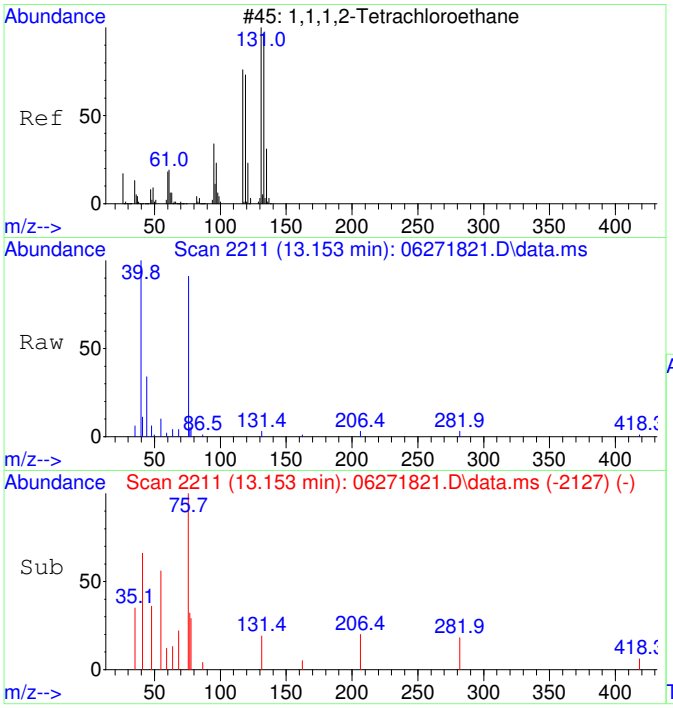


#39
Tetrachloroethene SCAN
Concen: 412.31 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. -0.011 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:166 Resp: 1807

Ion	Ratio	Lower	Upper
166	100		
164	47.3	43.3	103.3
131	0.0	35.6	95.6#
129	0.0	36.6	96.6#

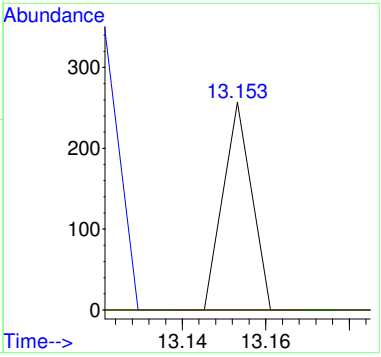


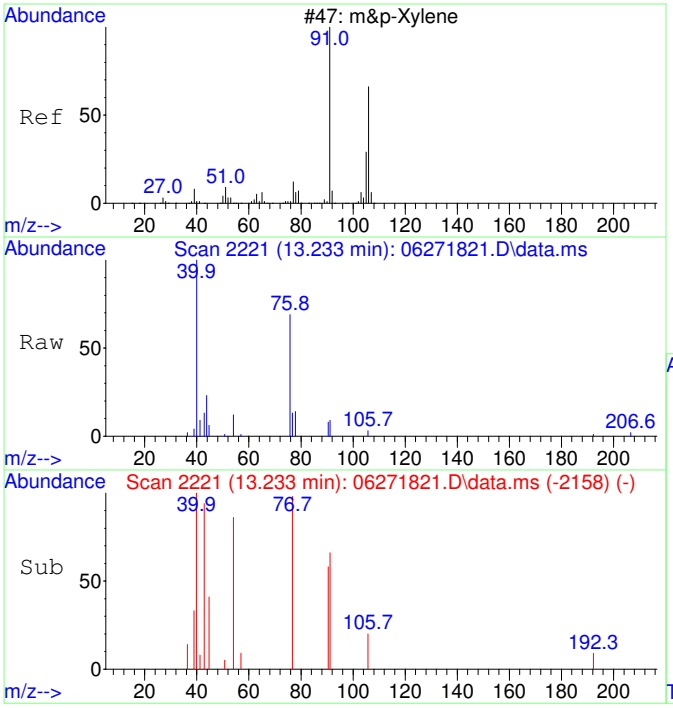


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 28.21 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. 0.167 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:131 Resp: 122

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#

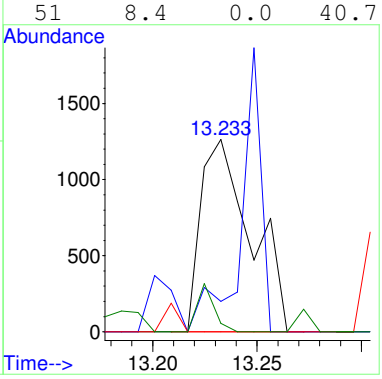


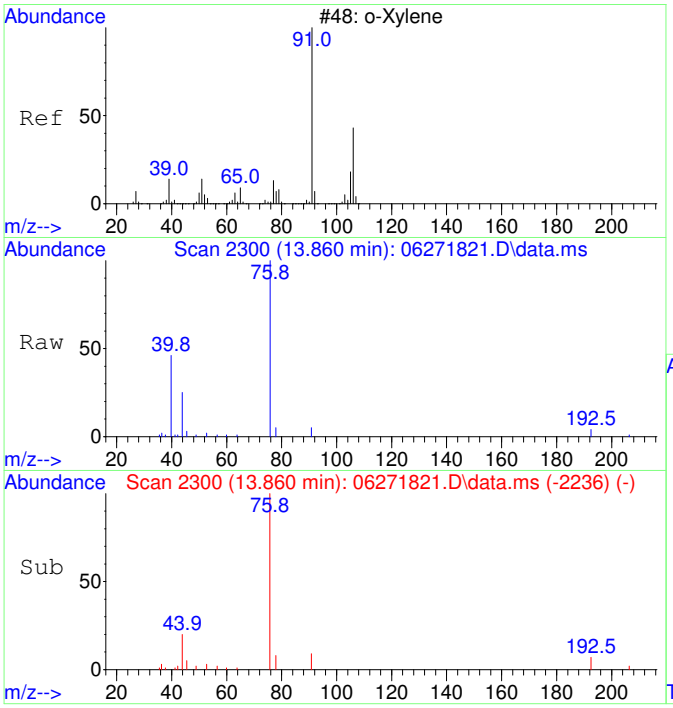


#43
m&p-Xylene SCAN
Concen: 65.42 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.000 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 91 Resp: 2108

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	0.0	0.0	51.1
51	8.4	0.0	40.7

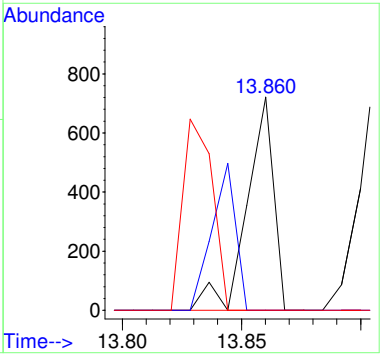


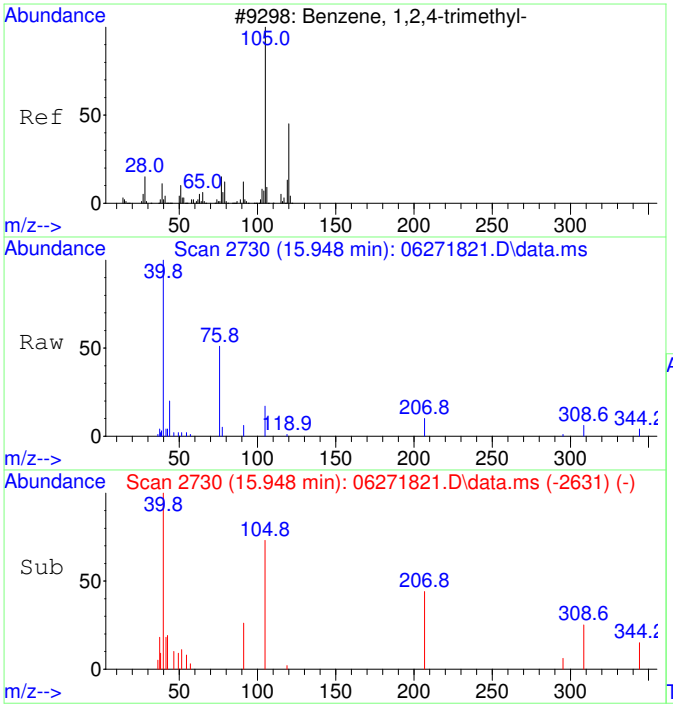


#44
o-Xylene SCAN
Concen: 30.42 ug/L
RT: 13.860 min Scan# 2300
Delta R.T. 0.008 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion: 91 Resp: 558

Ion	Ratio	Lower	Upper
91	100		
106	62.4	21.3	81.3
105	0.0	0.0	55.2

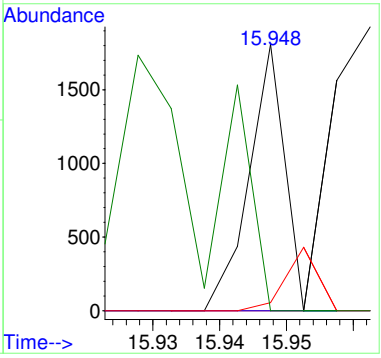




#47
1,2,4-Trimethylbenzene SCAN
Concen: 35.90 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. -0.006 min
Lab File: 06271821.D
Acq: 27 Jun 2018 17:41

Tgt Ion:105 Resp: 669

Ion	Ratio	Lower	Upper
105	100		
120	0.0	15.4	75.4#
119	21.7	0.0	41.7
77	0.0	0.0	42.0



1806075-03RE2

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271822.D
Acq On : 27 Jun 2018 18:05
InstName : AG5975C
Operator : TD
Sample : 1806075-03RE2
Misc : 10 UL + 990 UL
ALS Vial : 20 Sample Multiplier: 100

Quant Time: Jun 28 07:06:44 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

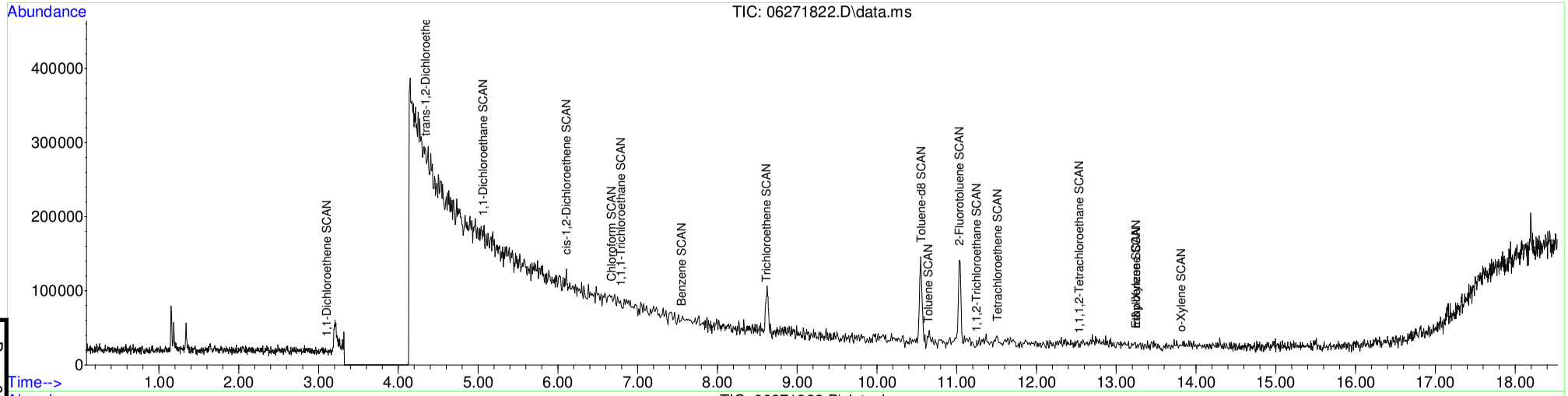
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	156334	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	127844	5034.54 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.69%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.105	61	566	86.39 ug/L	94
3] trans-1,2-Dichloroethene	4.309	61	230	32.90 ug/L	51
5] cis-1,2-Dichloroethene	6.108	61	4081	475.45 ug/L	98
6] Chloroform	6.676	83	2165	234.25 ug/L	96
7] 1,1,1-Trichloroethane	6.944	97	269	29.57 ug/L	95
9] Benzene	7.552	78	871	34.70 ug/L #	1
11] Trichloroethene	8.624	130	31837	4614.87 ug/L	100
13] Toluene	10.645	91	6830	200.60 ug/L	100
15] Tetrachloroethene	11.495	166	3333	347.46 ug/L	96
19] m&p-Xylene	13.226	91	1940	61.52 ug/L	92
20] o-Xylene	13.846	91	831	24.88 ug/L	92
25) 2-Fluorotoluene SCAN	11.032	109	91572	5026.71 ug/L	98
26) 1,1-Dichloroethene SCAN	3.103	61	152	33.44 ug/L #	73
27) trans-1,2-Dichloroethe...	4.341	61	291	54.99 ug/L #	23
28) 1,1-Dichloroethane SCAN	5.058	63	141	20.94 ug/L #	58
29) cis-1,2-Dichloroethene...	6.106	61	1274	218.80 ug/L #	1
30) Chloroform SCAN	6.675	83	1415	197.99 ug/L	88
31) 1,1,1-Trichloroethane ...	6.784	97	216	33.95 ug/L #	26
33) Benzene SCAN	7.550	78	13502	711.67 ug/L #	48
35) Trichloroethene SCAN	8.612	130	20894	4500.46 ug/L #	5
36) Toluene-d8 SCAN	10.549	98	79542	4830.05 ug/L	98
37) Toluene SCAN	10.643	91	5913	281.08 ug/L	86
38) 1,1,2-Trichloroethane ...	11.242	97	81	20.09 ug/L #	10
39) Tetrachloroethene SCAN	11.504	166	2030	439.76 ug/L #	53
41) 1,1,1,2-Tetrachloroeth...	12.534	131	111	24.37 ug/L #	13
42) Ethylbenzene SCAN	13.241	91	1384	56.60 ug/L #	40
43) m&p-Xylene SCAN	13.241	91	1384	40.78 ug/L #	37
44) o-Xylene SCAN	13.813	91	466	24.12 ug/L #	34

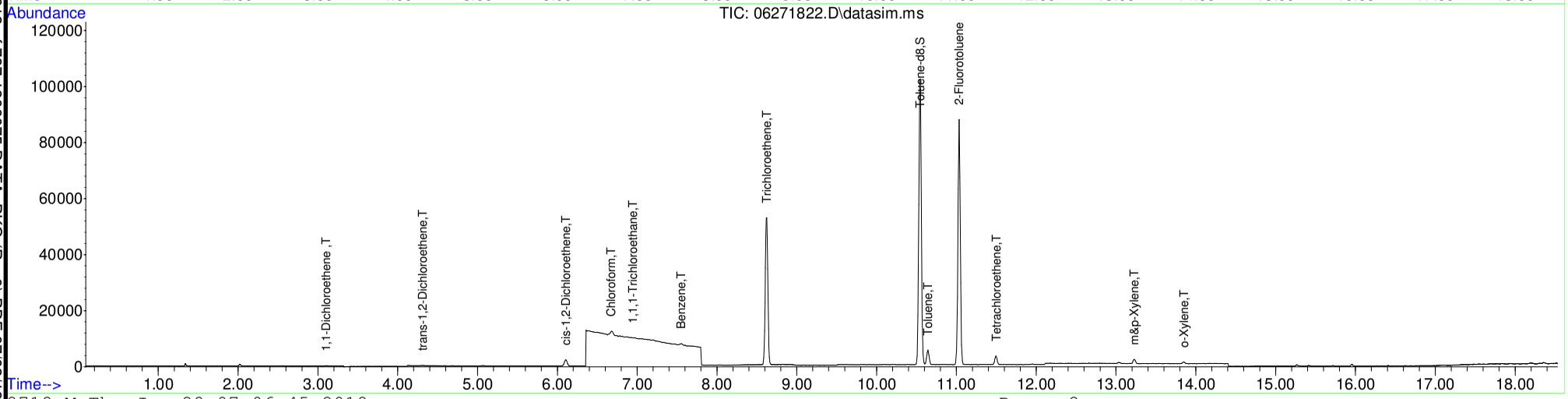
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271822.D
Acq On : 27 Jun 2018 18:05
InstName : AG5975C
Operator : TD
Sample : 1806075-03RE2
Misc : 10 UL + 990 UL
ALS Vial : 20 Sample Multiplier: 100

Quant Time: Jun 28 07:06:44 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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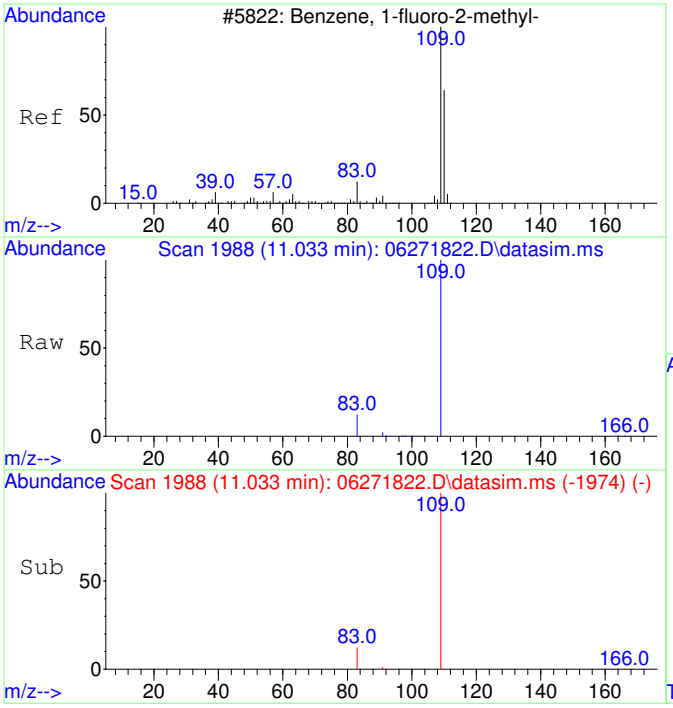
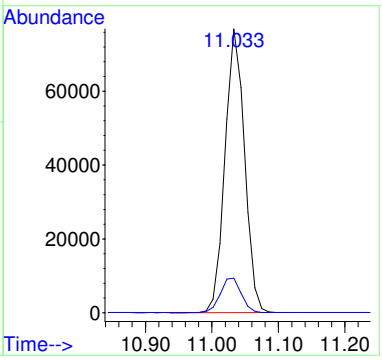
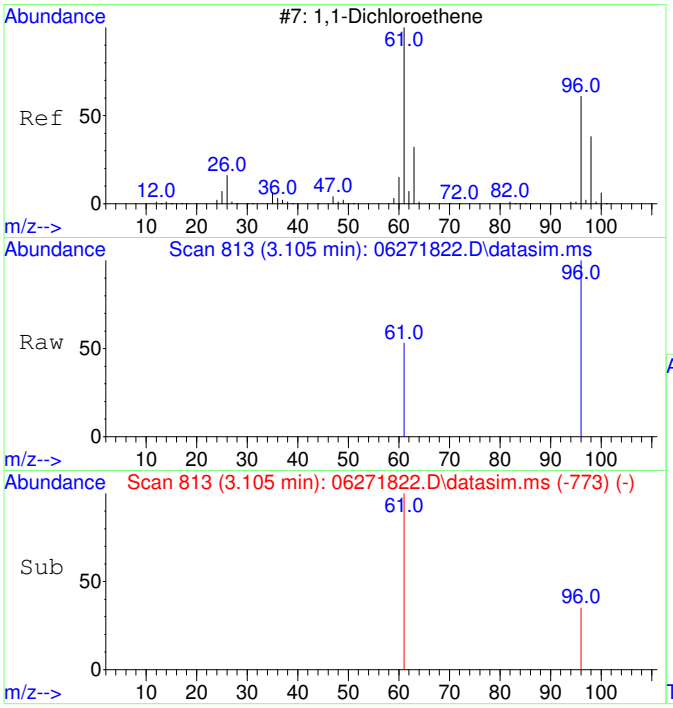


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion:109 Resp: 156334

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	44.7

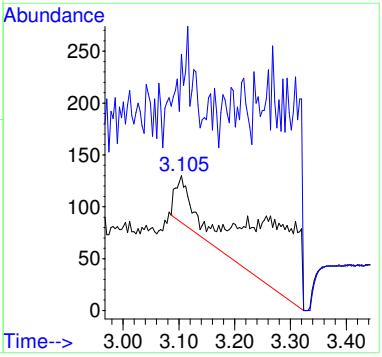


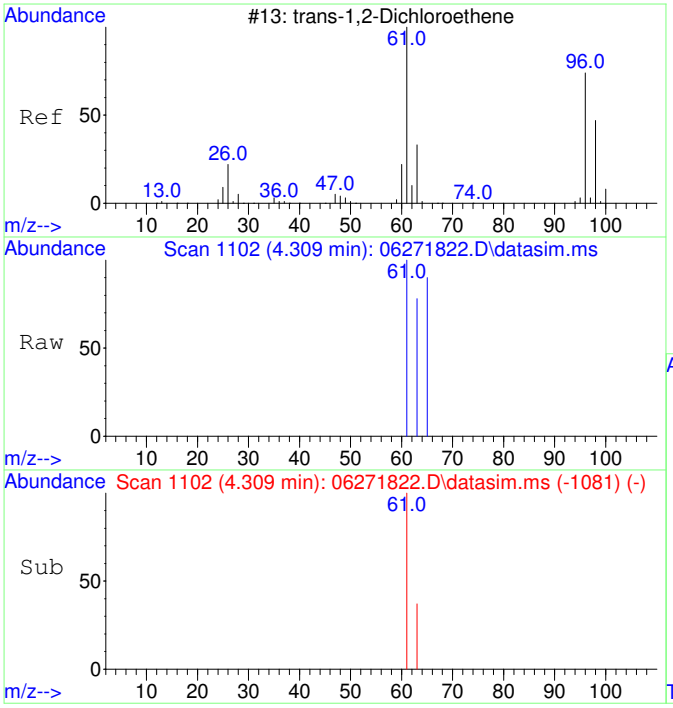


#2
1,1-Dichloroethene
Concen: 86.39 ug/L
RT: 3.105 min Scan# 813
Delta R.T. 0.000 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 61 Resp: 566

Ion	Ratio	Lower	Upper
61	100		
96	63.3	28.7	88.7

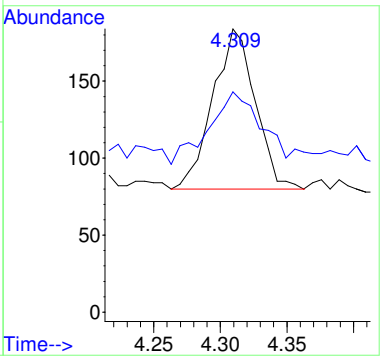


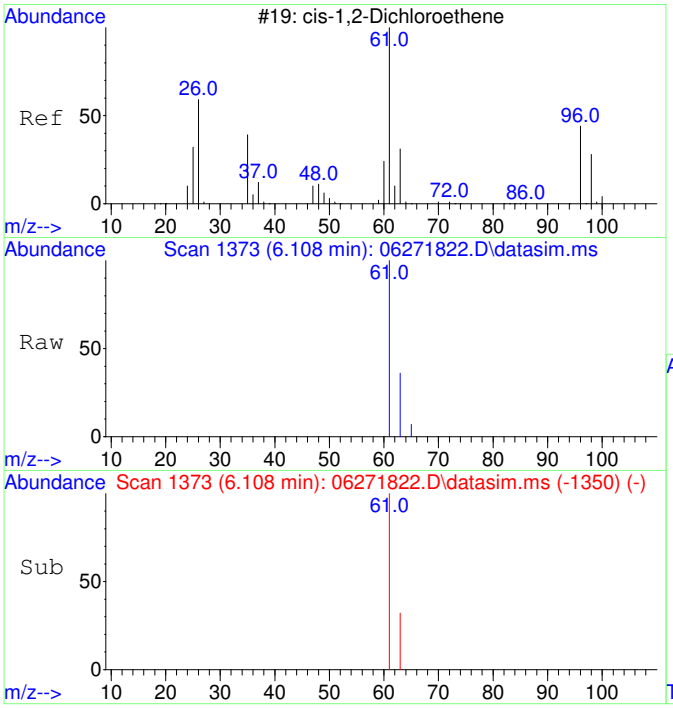


#3
trans-1,2-Dichloroethene
Concen: 32.90 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 61 Resp: 230

Ion	Ratio	Lower	Upper
61	100		
63	59.6	2.0	62.0

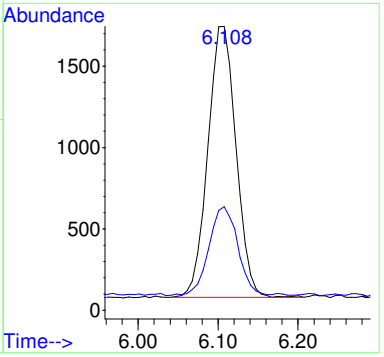


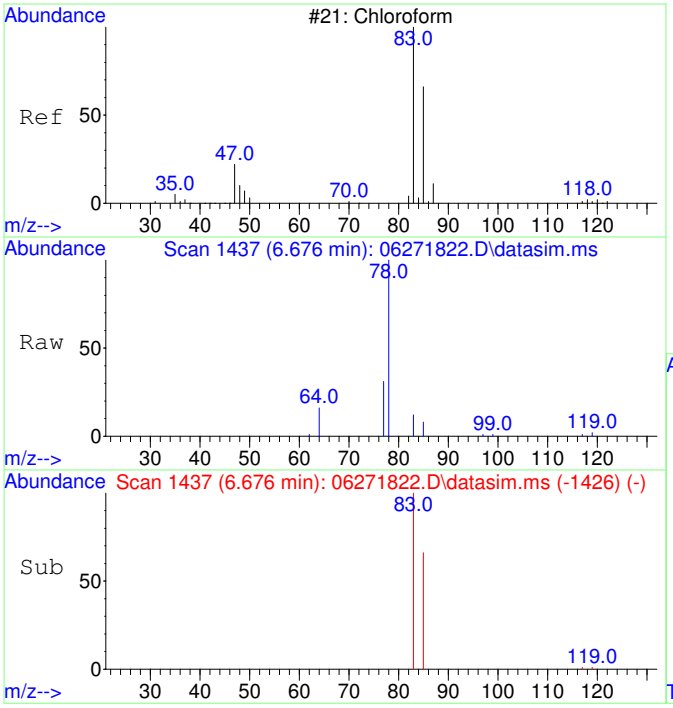


#5
cis-1,2-Dichloroethene
Concen: 475.45 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 61 Resp: 4081

Ion	Ratio	Lower	Upper
61	100		
63	33.2	2.2	62.2

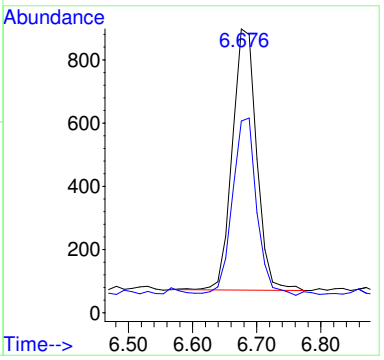


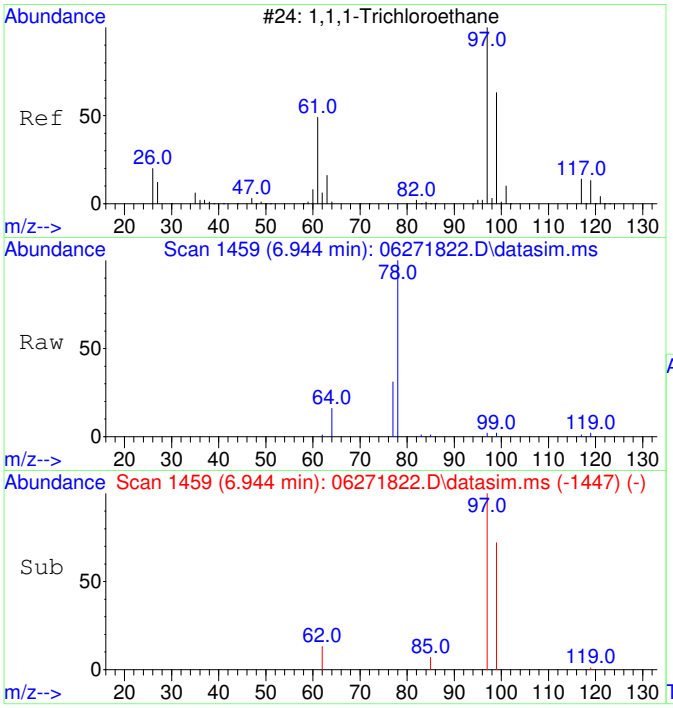


#6
Chloroform
Concen: 234.25 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 83 Resp: 2165

Ion	Ratio	Lower	Upper
83	100		
85	68.3	34.8	94.8

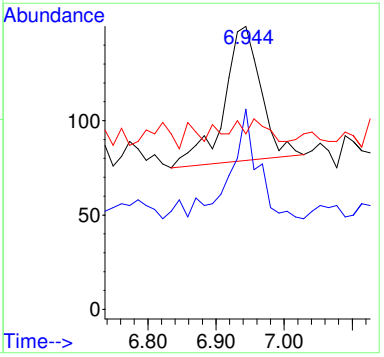


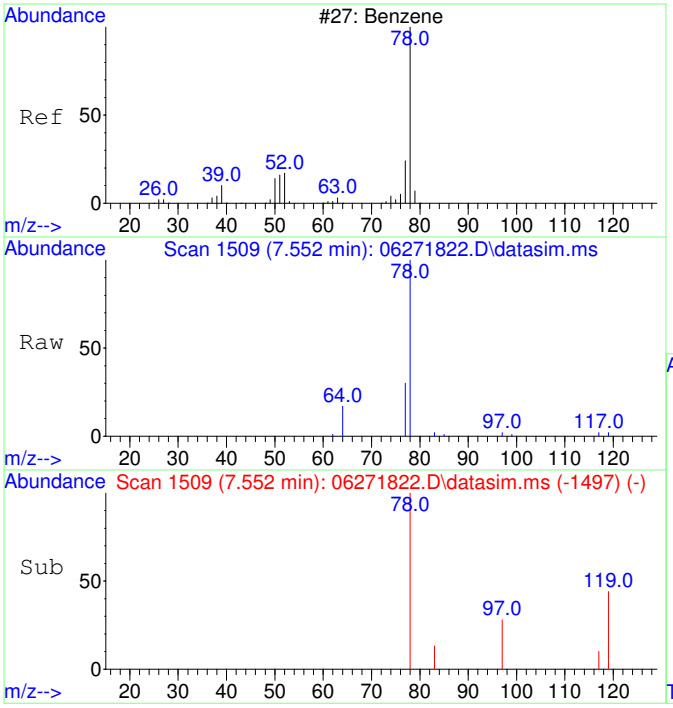


#7
1,1,1-Trichloroethane
Concen: 29.57 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 97 Resp: 269

Ion	Ratio	Lower	Upper
97	100		
99	59.9	34.6	94.6
117	11.9	0.0	42.9

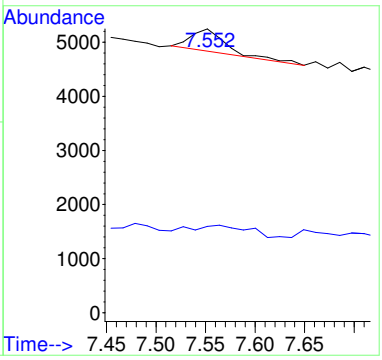


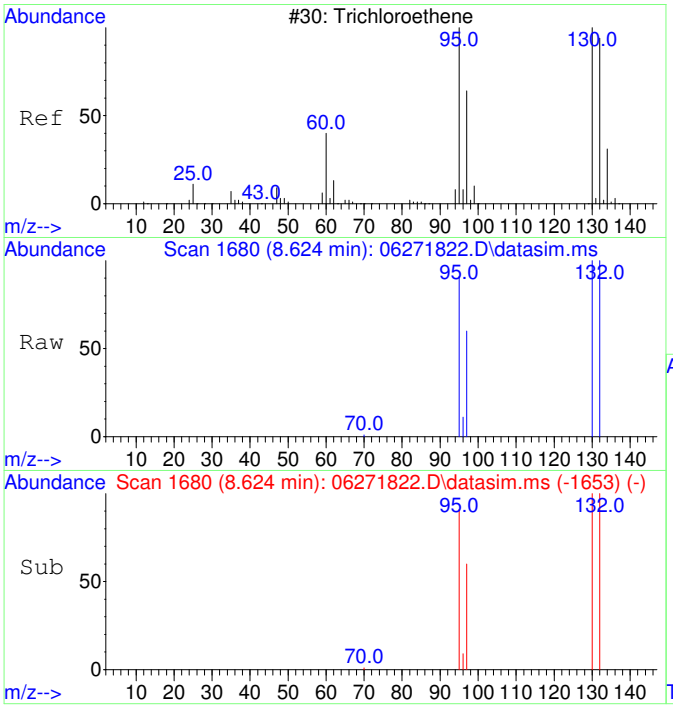


#9
Benzene
Concen: 34.70 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 78 Resp: 871

Ion	Ratio	Lower	Upper
78	100		
77	106.3	0.0	53.0#

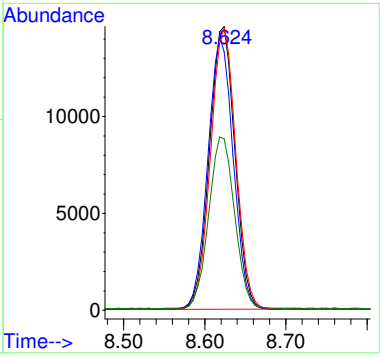


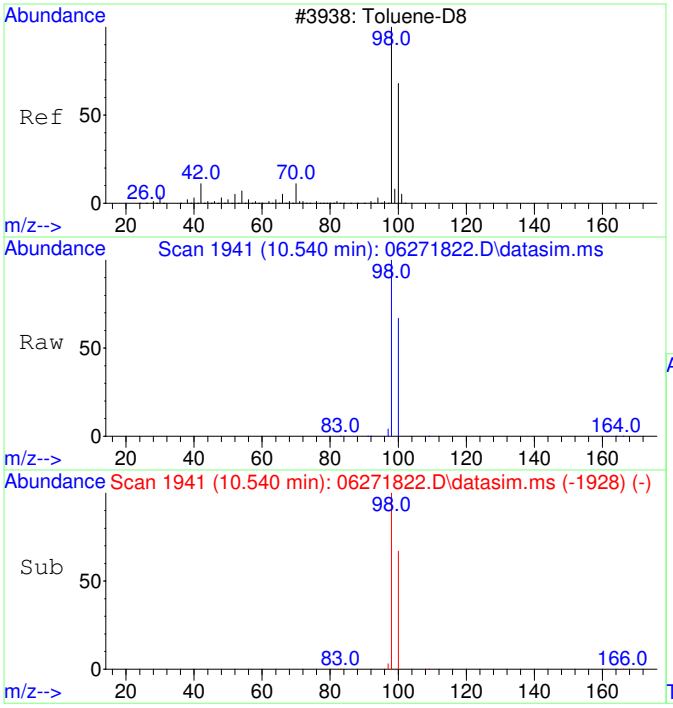


#11
Trichloroethene
Concen: 4614.87 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion:130 Resp: 31837

Ion	Ratio	Lower	Upper
130	100		
95	95.4	66.0	126.0
132	98.6	78.8	118.8
97	61.7	41.9	81.9

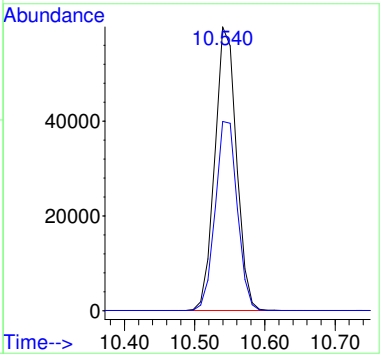


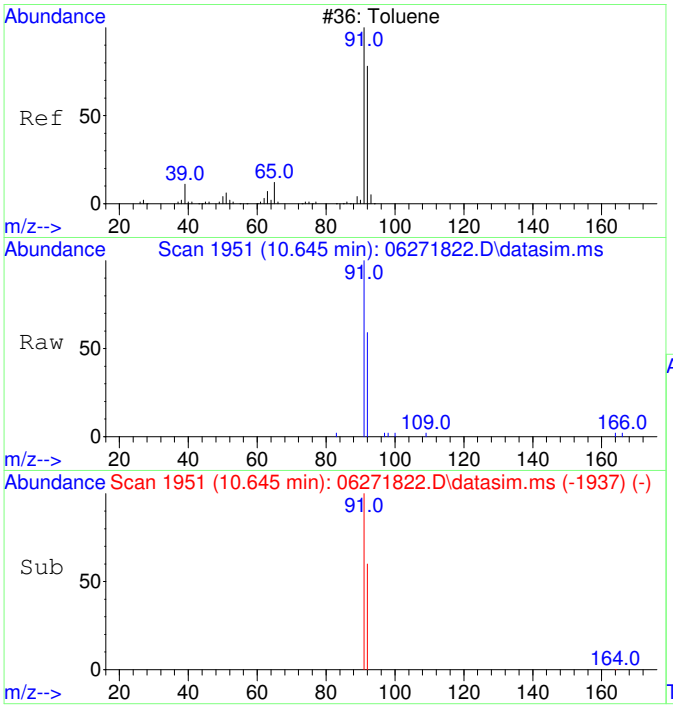


#12
Toluene-d8
Concen: 5034.54 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.010 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 98 Resp: 127844

Ion	Ratio	Lower	Upper
98	100		
100	68.1	38.7	98.7

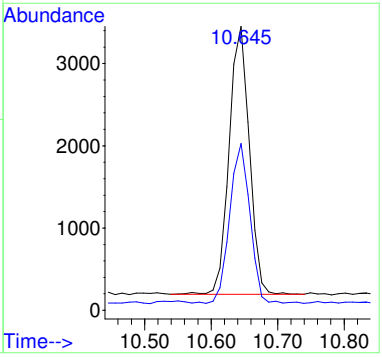


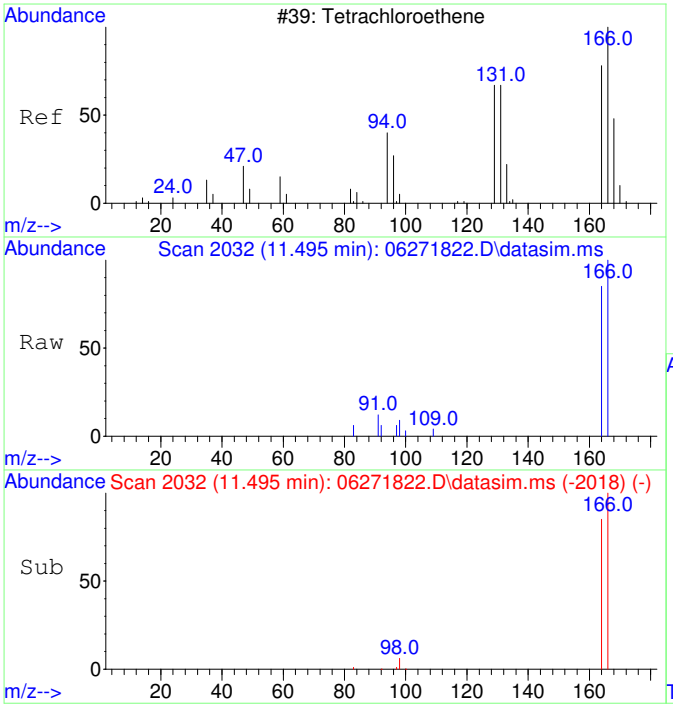


#13
Toluene
Concen: 200.60 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 91 Resp: 6830

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

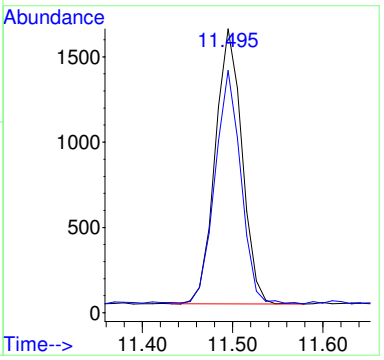


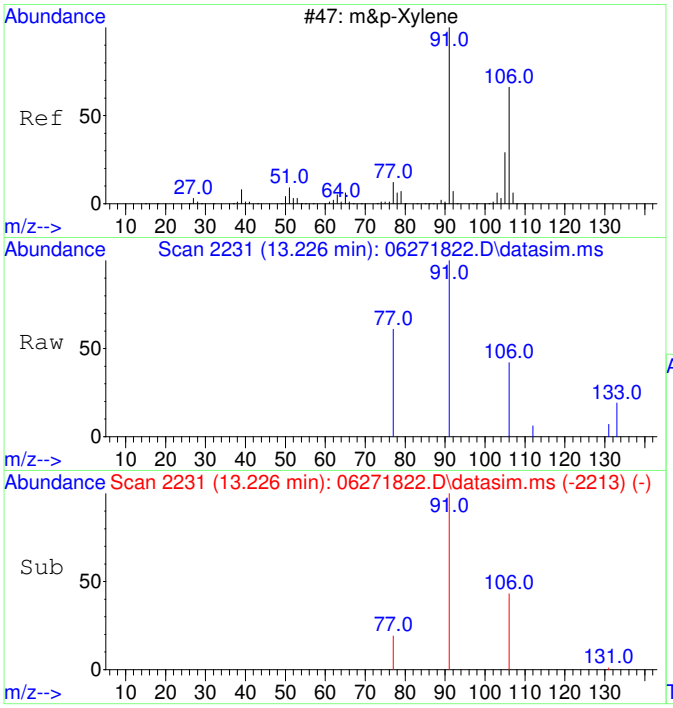


#15
Tetrachloroethene
Concen: 347.46 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion:166 Resp: 3333

Ion	Ratio	Lower	Upper
166	100		
164	80.9	47.8	107.8

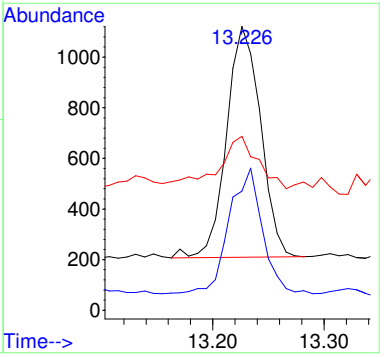


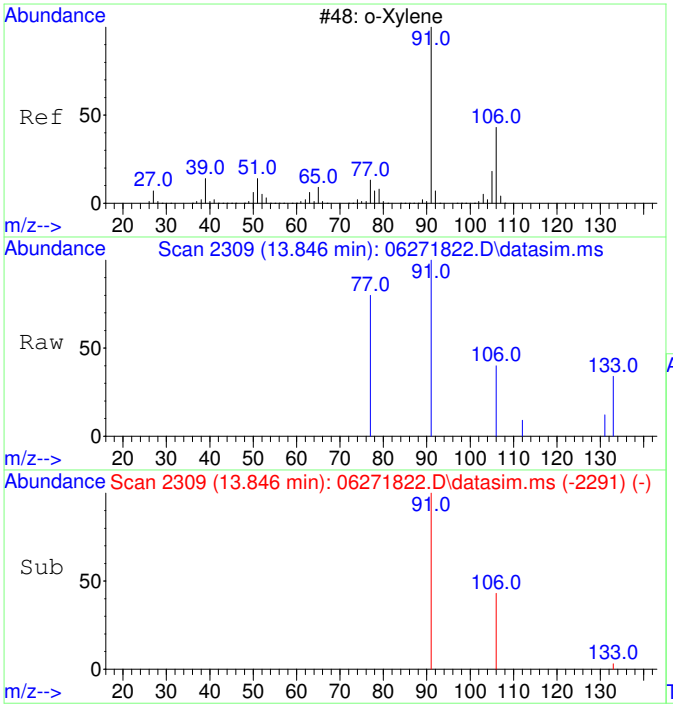


#19
m&p-Xylene
Concen: 61.52 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.008 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 91 Resp: 1940

Ion	Ratio	Lower	Upper
91	100		
106	53.0	21.2	81.2
77	23.9	0.0	42.9

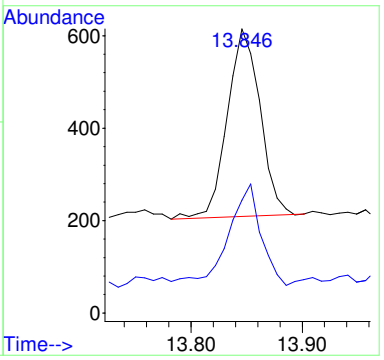


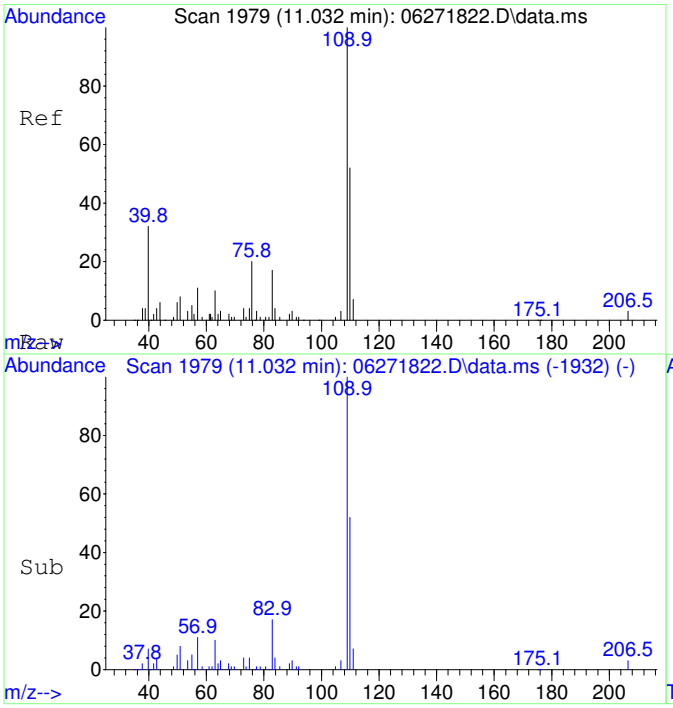


#20
o-Xylene
Concen: 24.88 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 91 Resp: 831

Ion	Ratio	Lower	Upper
91	100		
106	53.5	18.3	78.3

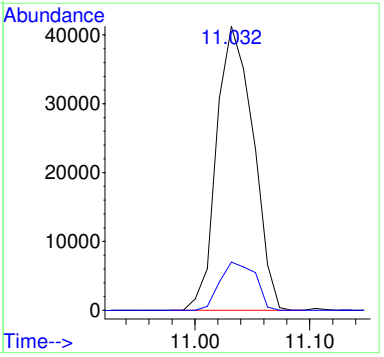


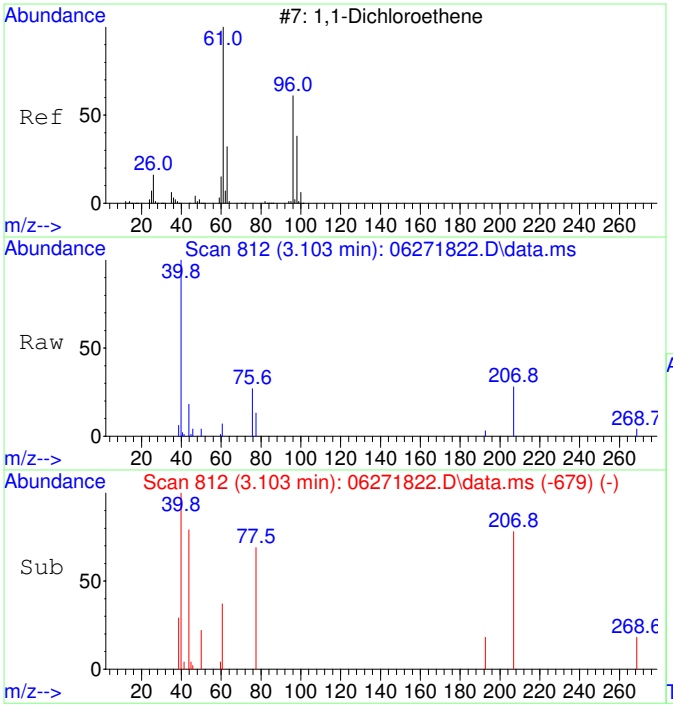


#25
2-Fluorotoluene SCAN
Concen: 5026.71 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.010 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion:109 Resp: 91572

Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	45.7

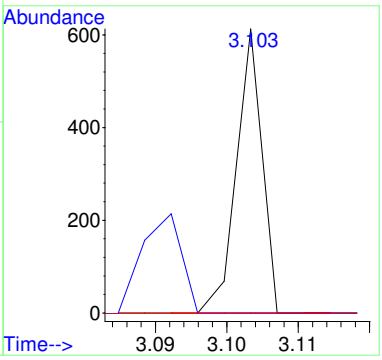


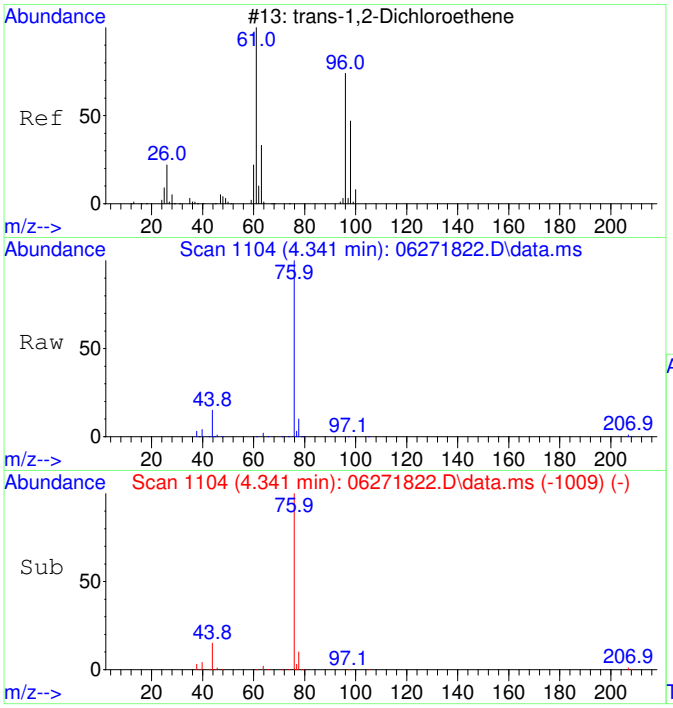


#26
1,1-Dichloroethene SCAN
Concen: 33.44 ug/L
RT: 3.103 min Scan# 812
Delta R.T. -0.007 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 61 Resp: 152

Ion	Ratio	Lower	Upper
61	100		
96	54.6	23.8	83.8
98	0.0	8.8	68.8#

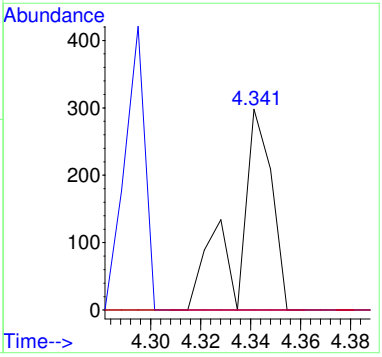


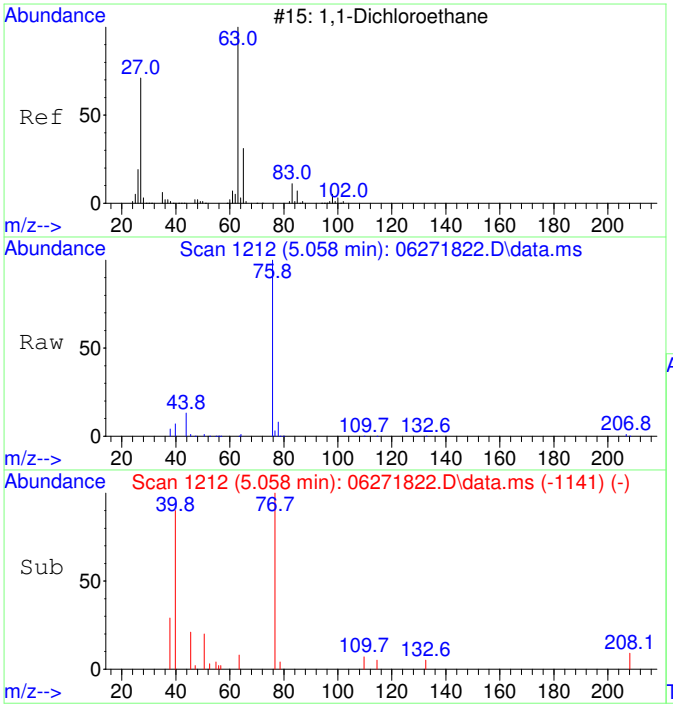


#27
trans-1,2-Dichloroethene SCAN
Concen: 54.99 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. 0.007 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 61 Resp: 291

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

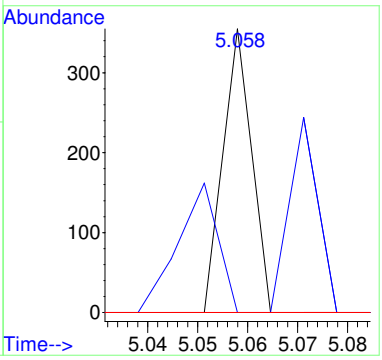


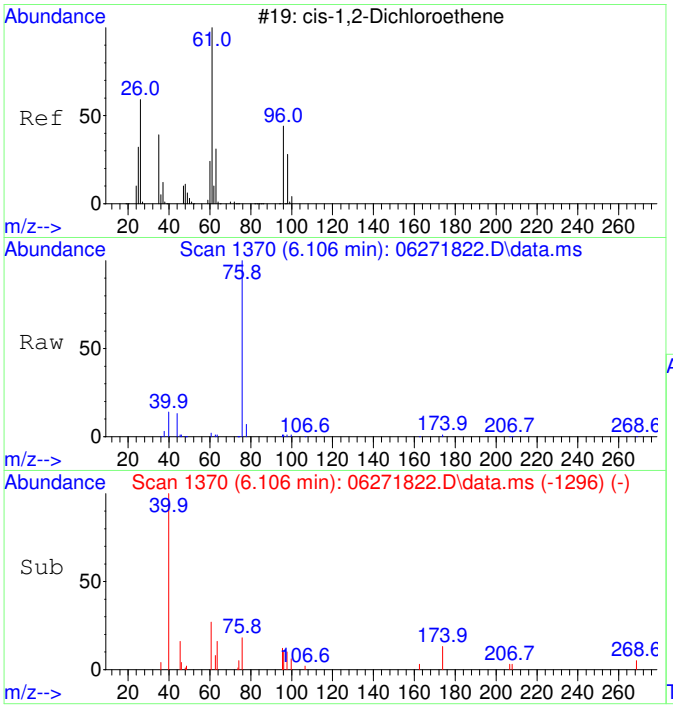


#28
1,1-Dichloroethane SCAN
Concen: 20.94 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.027 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 63 Resp: 141

Ion	Ratio	Lower	Upper
63	100		
65	64.5	7.5	67.5
83	0.0	0.0	34.3

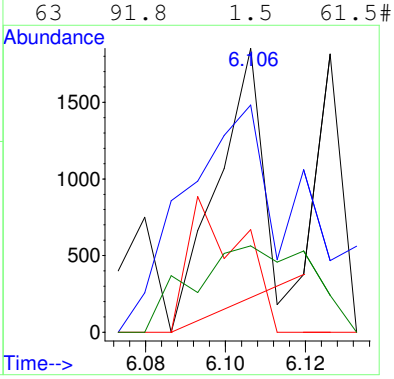


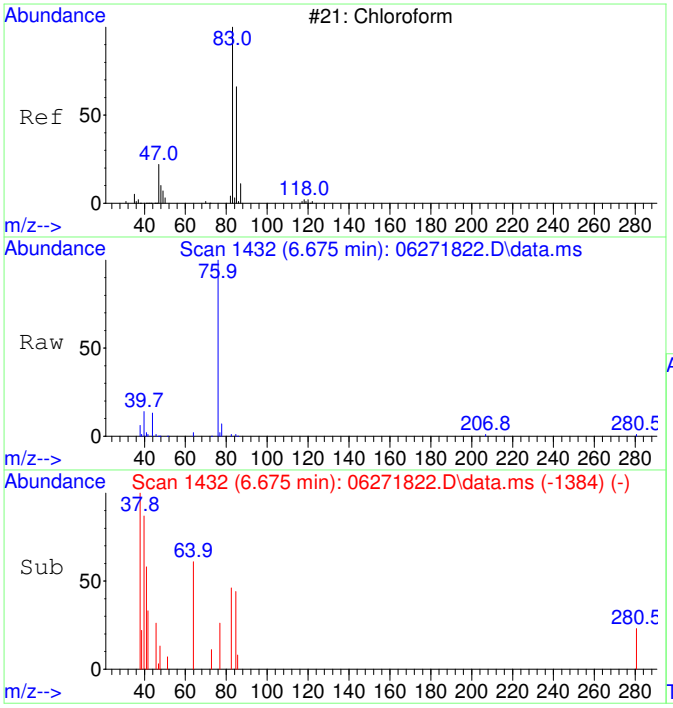


#29
cis-1,2-Dichloroethene SCAN
Concen: 218.80 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 61 Resp: 1274

Ion	Ratio	Lower	Upper
61	100		
96	232.2	28.2	88.2#
98	63.6	14.1	74.1
63	91.8	1.5	61.5#

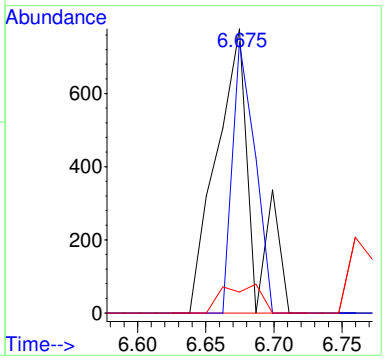


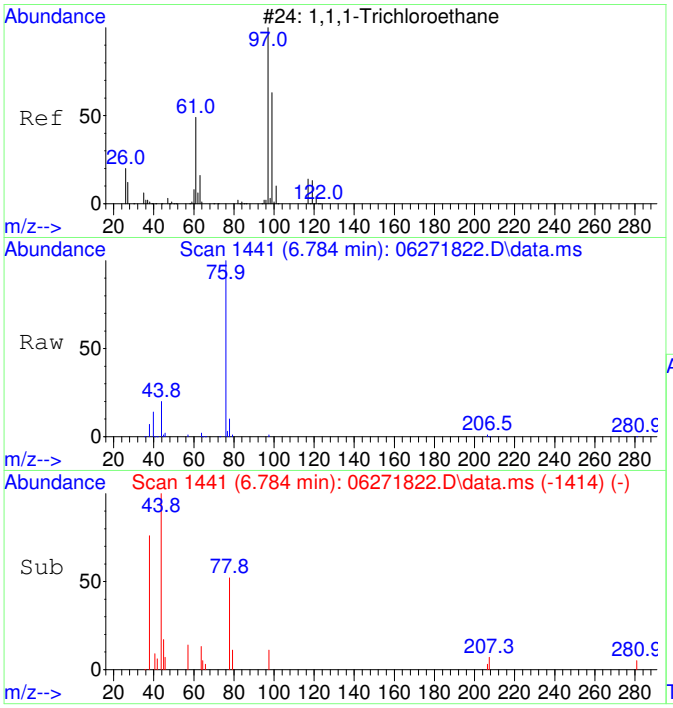


#30
Chloroform SCAN
Concen: 197.99 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 83 Resp: 1415

Ion	Ratio	Lower	Upper
83	100		
85	60.1	32.6	92.6
47	10.7	0.0	57.9

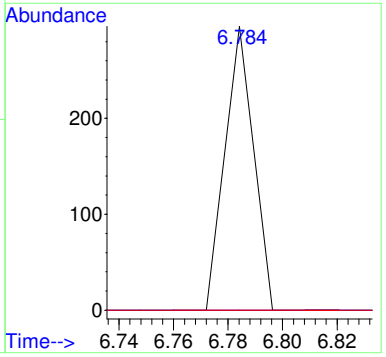


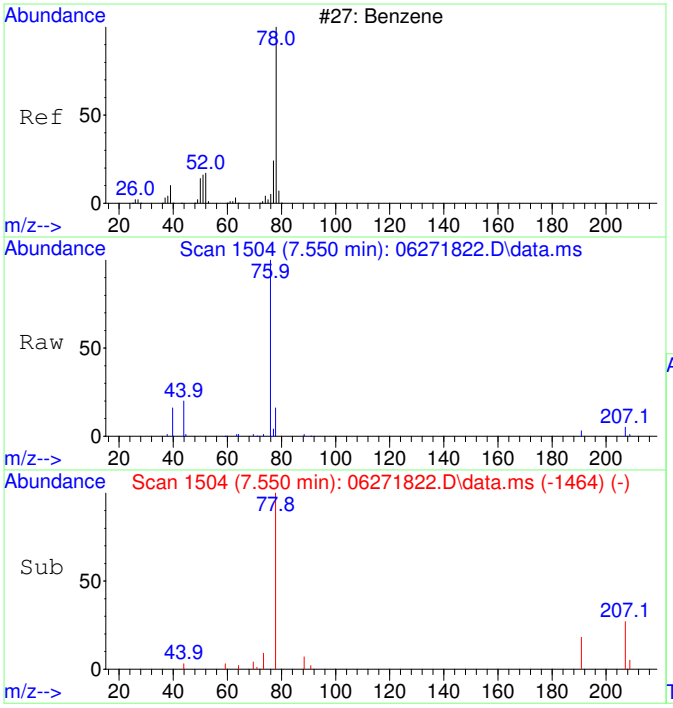


#31
1,1,1-Trichloroethane SCAN
Concen: 33.95 ug/L
RT: 6.784 min Scan# 1441
Delta R.T. -0.170 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 97 Resp: 216

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

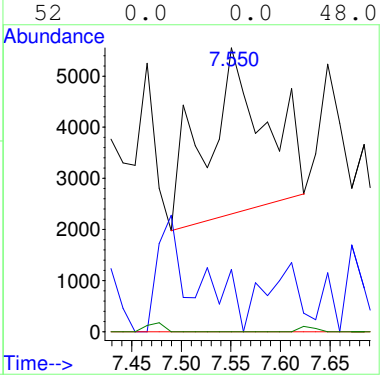


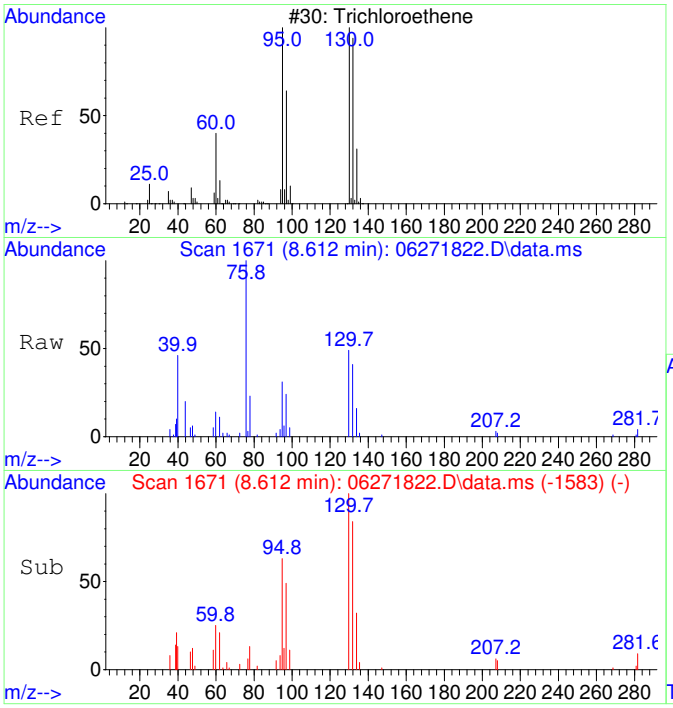


#33
Benzene SCAN
Concen: 711.67 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.012 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 78 Resp: 13502

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

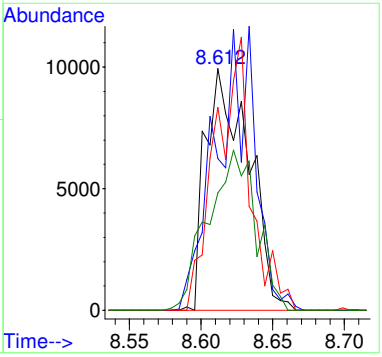


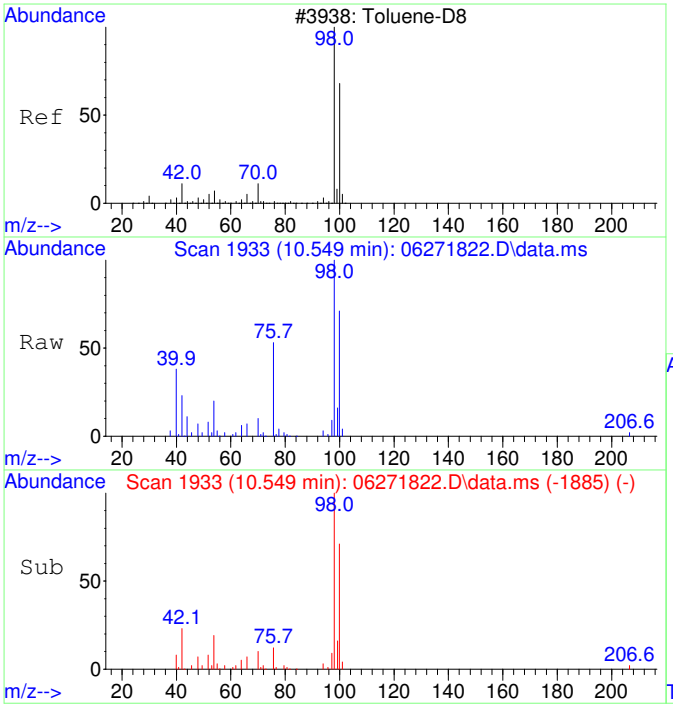


#35
Trichloroethene SCAN
Concen: 4500.46 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.022 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion:130 Resp: 20894

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

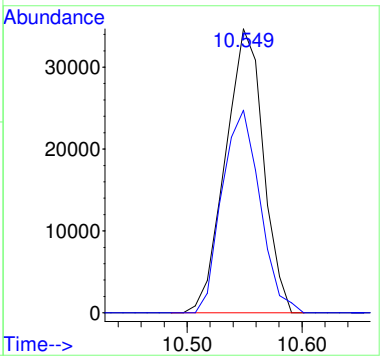


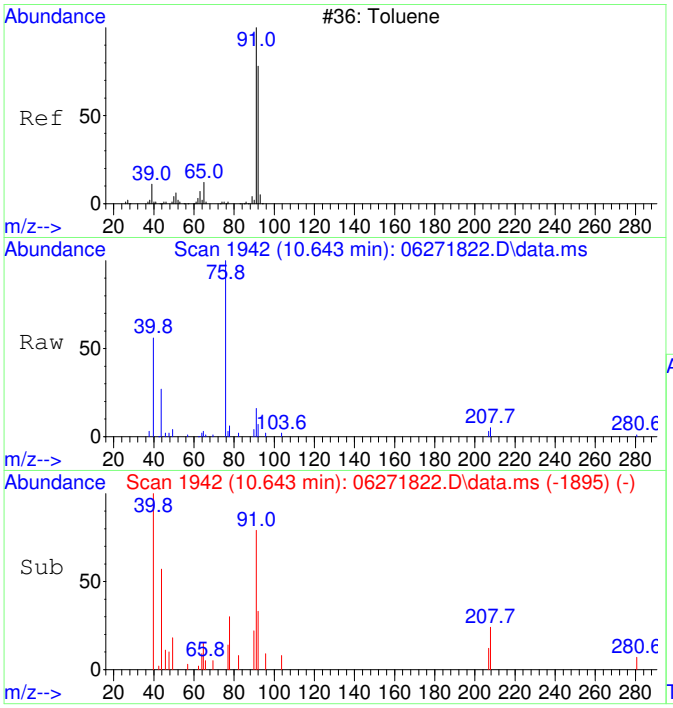


#36
Toluene-d8 SCAN
Concen: 4830.05 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 98 Resp: 79542

Ion	Ratio	Lower	Upper
98	100		
100	71.5	39.5	99.5

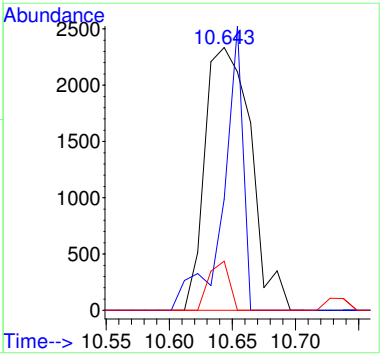


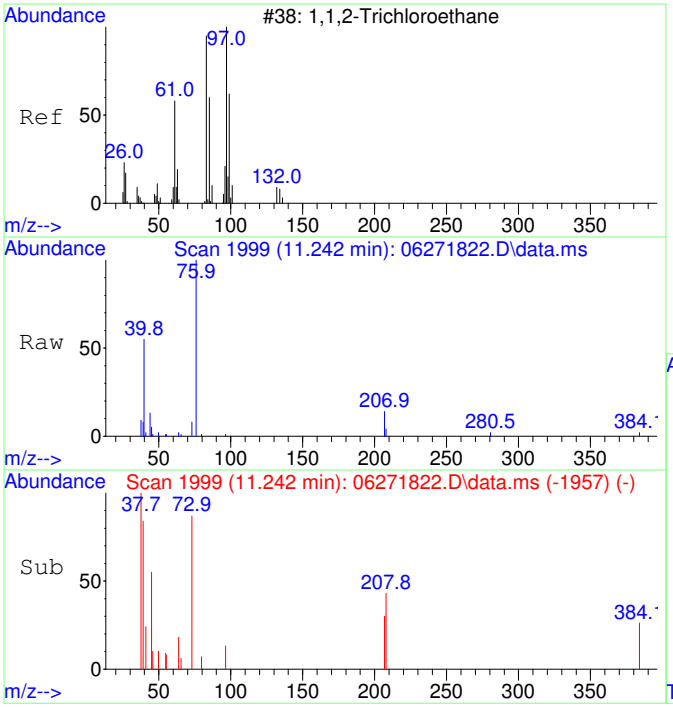


#37
Toluene SCAN
Concen: 281.08 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.010 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 91 Resp: 5913

Ion	Ratio	Lower	Upper
91	100		
92	46.0	26.6	86.6
65	8.4	0.0	42.3

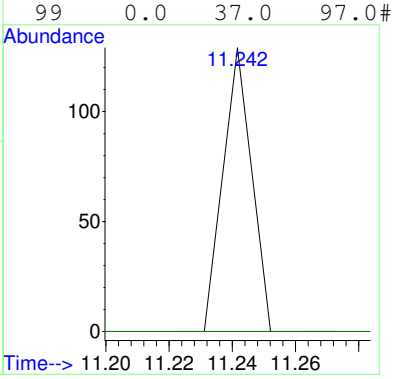


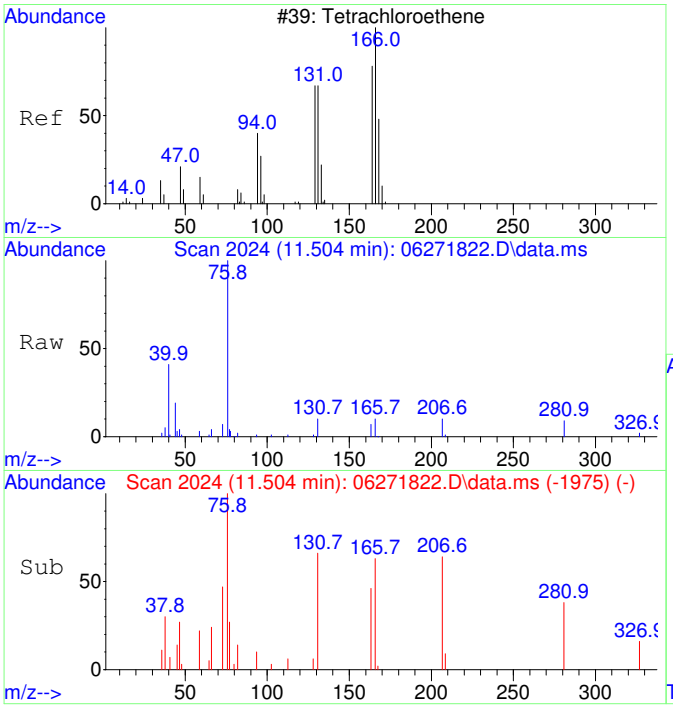


#38
1,1,2-Trichloroethane SCAN
Concen: 20.09 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. -0.063 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 97 Resp: 81

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#

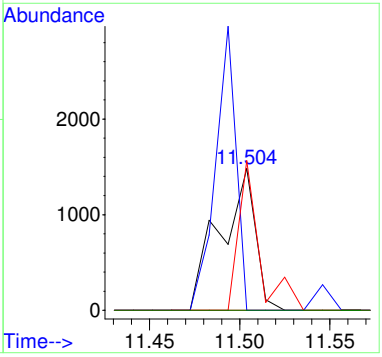


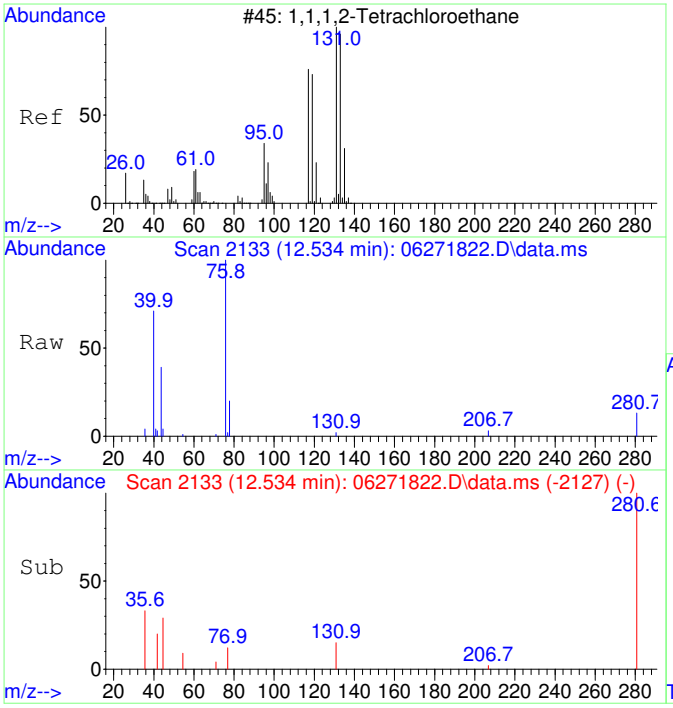


#39
Tetrachloroethene SCAN
Concen: 439.76 ug/L
RT: 11.504 min Scan# 2024
Delta R.T. 0.011 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion:166 Resp: 2030

Ion	Ratio	Lower	Upper
166	100		
164	116.5	43.3	103.3#
131	62.0	35.6	95.6
129	0.0	36.6	96.6#

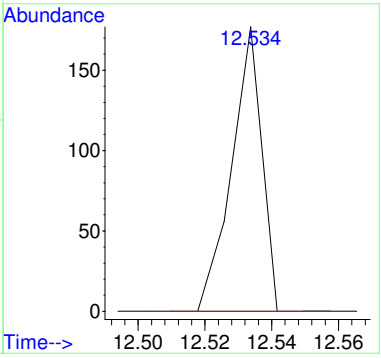


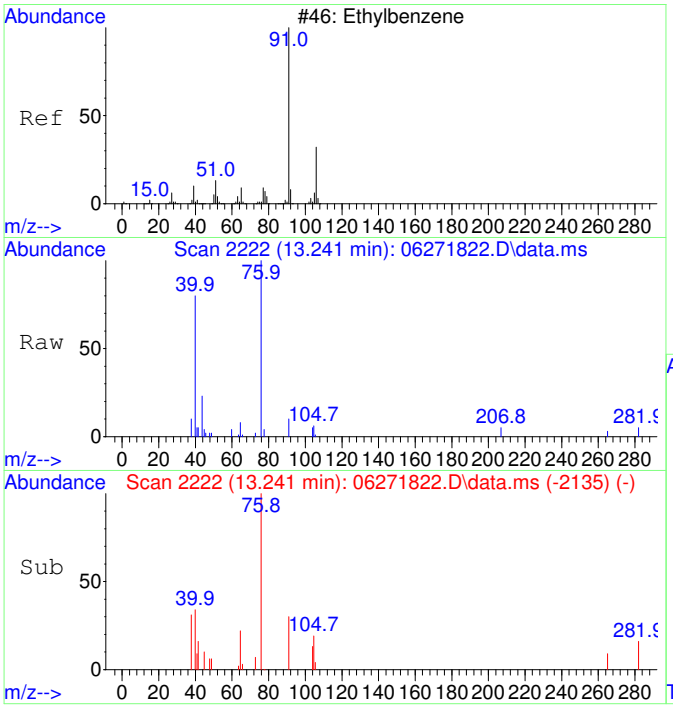


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 24.37 ug/L
RT: 12.534 min Scan# 2133
Delta R.T. -0.453 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion:131 Resp: 111

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#

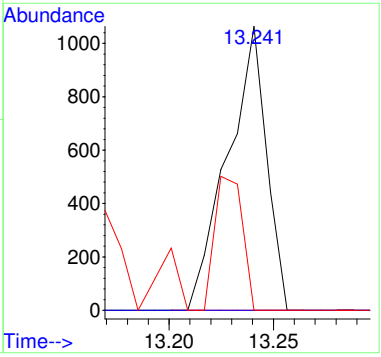


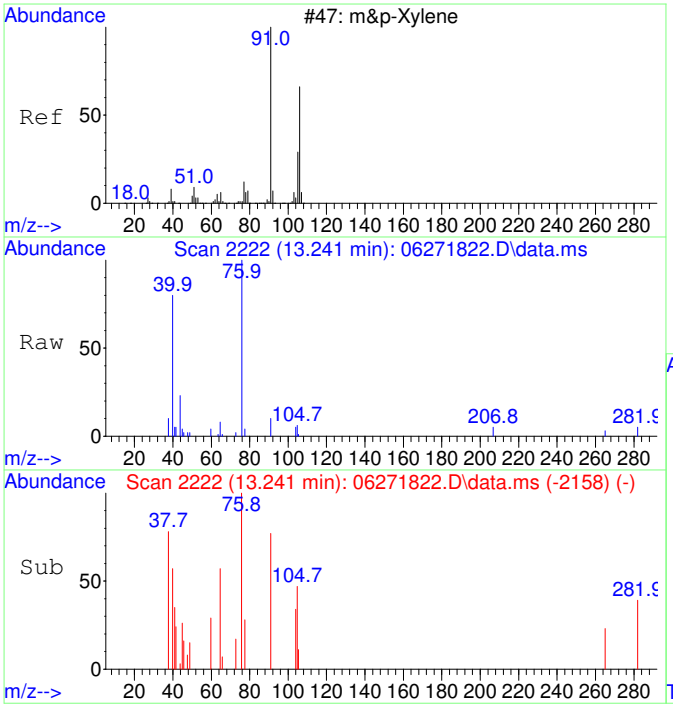


#42
Ethylbenzene SCAN
Concen: 56.60 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.191 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 91 Resp: 1384

Ion	Ratio	Lower	Upper
91	100		
106	0.0	3.2	63.2#
51	33.6	0.0	40.1

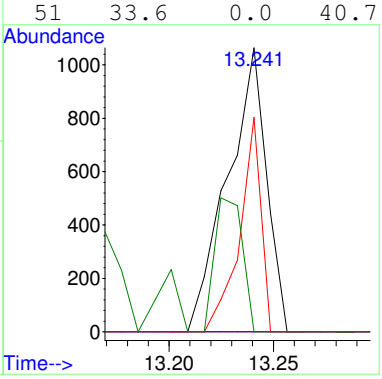


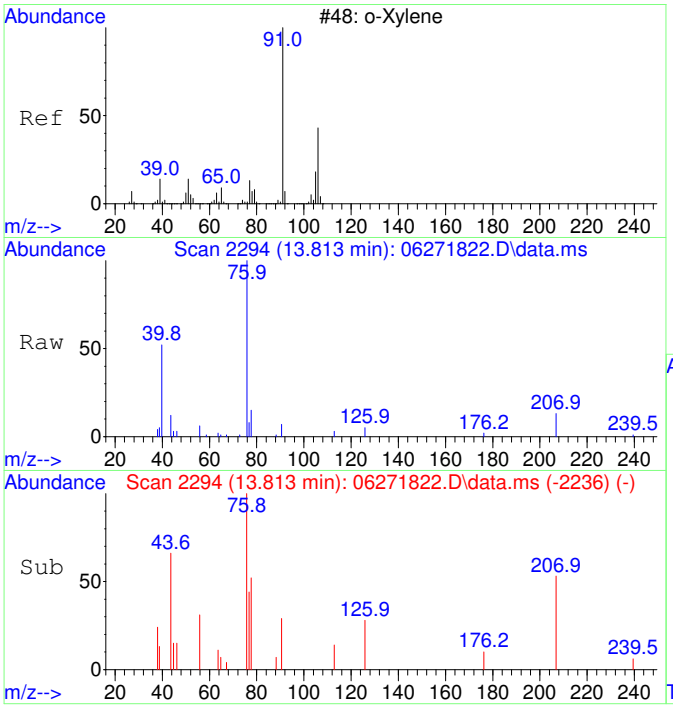


#43
m&p-Xylene SCAN
Concen: 40.78 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.008 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 91 Resp: 1384

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	41.0	0.0	51.1
51	33.6	0.0	40.7

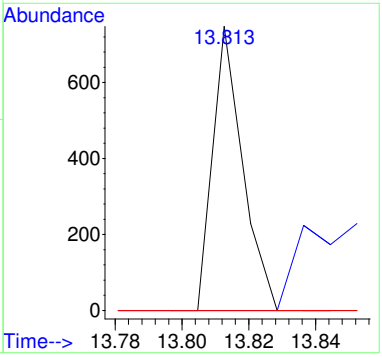




#44
o-Xylene SCAN
Concen: 24.12 ug/L
RT: 13.813 min Scan# 2294
Delta R.T. -0.040 min
Lab File: 06271822.D
Acq: 27 Jun 2018 18:05

Tgt Ion: 91 Resp: 466

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



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 18170C
Client: California Site Cleanup Section 3
Project: MEW OU3 2018 Air and Sewer Gas Investigation
Instrument ID: AG5975CV
Calibration: 1806010
Sequence: S18F083

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
B18F097-MRL1	1,1-Dichloroethene	0.131	0.138	106	ug/m³ Air	0 - 200
	trans-1,2-Dichloroethene	0.160	0.180	112	ug/m³ Air	0 - 200
	1,1-Dichloroethane	0.157	0.207	132	ug/m³ Air	0 - 200
	cis-1,2-Dichloroethene	0.160	0.167	104	ug/m³ Air	0 - 200
	Chloroform	0.132	0.181	137	ug/m³ Air	0 - 200
	Trichloroethene	0.144	0.163	113	ug/m³ Air	0 - 200
	Tetrachloroethene	0.168	0.226	134	ug/m³ Air	0 - 200
	Toluene-d8	992	1050	106	ug/m³ Air	90 - 110

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271809.D
Acq On : 27 Jun 2018 12:41
InstName : AG5975C
Operator : TD
Sample : B18F097-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Before Manual Integration

Quant Time: Jun 27 15:17:48 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

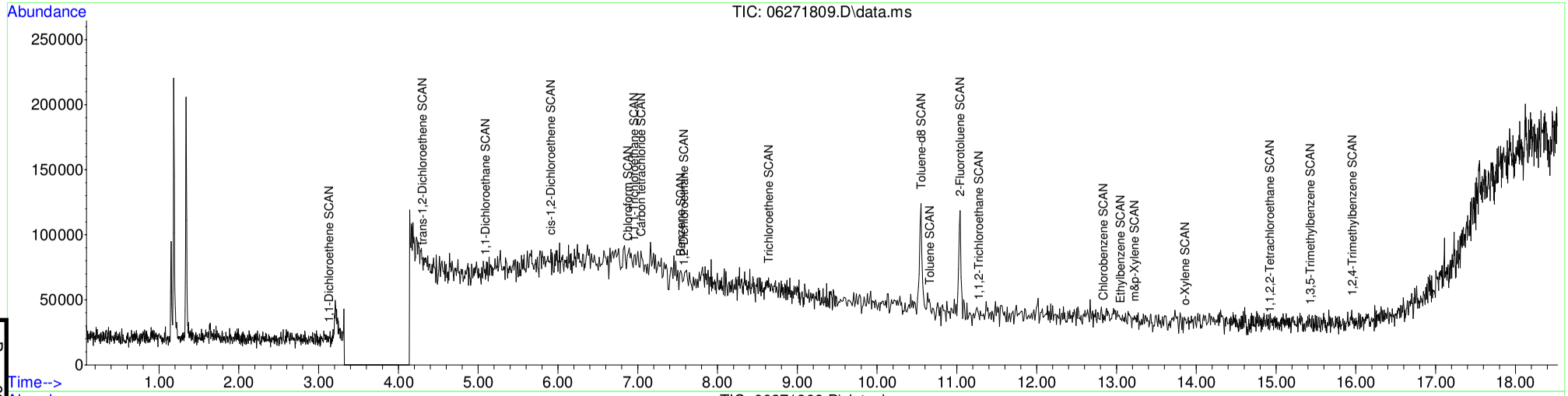
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	104008	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	89457	5295.18 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 105.90%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	739	169.55 ug/L	68
3] trans-1,2-Dichloroethene	4.309	61	261	56.12 ug/L	80
4] 1,1-Dichloroethane	5.072	63	381	65.82 ug/L	82
5] cis-1,2-Dichloroethene	6.101	61	298	52.18 ug/L	93
6] Chloroform	6.676	83	420	68.31 ug/L	76
7] 1,1,1-Trichloroethane	6.943	97	402	66.42 ug/L	74
8] Carbon tetrachloride	7.211	117	352	61.40 ug/L #	56
9] Benzene	7.551	78	1238	74.13 ug/L #	1
10] 1,2-Dichloroethane	7.588	62	339	62.99 ug/L #	1
11] Trichloroethene	8.618	130	260	56.65 ug/L #	74
13] Toluene	10.644	91	1975	87.19 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	292	62.37 ug/L	74
15] Tetrachloroethene	11.495	166	428	67.06 ug/L	87
16] Chlorobenzene	12.829	112	1019	63.03 ug/L	61
17] 1,1,1,2-Tetrachloroethane	12.987	131	354	64.52 ug/L #	48
18] Ethylbenzene	13.035	91	1847	67.95 ug/L	96
19] m&p-Xylene	13.234	91	2935	139.90 ug/L	95
20] o-Xylene	13.845	91	1392	62.65 ug/L	88
21] 1,1,2,2-Tetrachloroethane	14.947	83	591	61.76 ug/L	97
22] 1,3,5-Trimethylbenzene	15.414	105	1864	74.14 ug/L	90
23] 1,2,4-Trimethylbenzene	15.955	105	1606	63.86 ug/L	100
25) 2-Fluorotoluene SCAN	11.042	109	57528	4746.65 ug/L	93
26) 1,1-Dichloroethene SCAN	3.129	61	93	30.75 ug/L #	11
27) trans-1,2-Dichloroethe...	4.295	61	103	29.25 ug/L #	1
28) 1,1-Dichloroethane SCAN	5.084	63	145	32.37 ug/L #	43
29) cis-1,2-Dichloroethene...	5.914	61	252	65.05 ug/L #	30
30) Chloroform SCAN	6.869	83	512	107.68 ug/L #	1
31) 1,1,1-Trichloroethane ...	6.954	97	215	50.80 ug/L #	32
32) Carbon tetrachloride SCAN	7.039	117	299	71.69 ug/L #	13
33) Benzene SCAN	7.538	78	12437	985.34 ug/L #	73
34) 1,2-Dichloroethane SCAN	7.575	62	406	94.32 ug/L #	39
35) Trichloroethene SCAN	8.639	130	477	154.43 ug/L #	55
36) Toluene-d8 SCAN	10.549	98	51245	4677.28 ug/L	86
37) Toluene SCAN	10.654	91	3670	262.23 ug/L #	91
38) 1,1,2-Trichloroethane ...	11.273	97	830	309.49 ug/L #	10
40) Chlorobenzene SCAN	12.835	112	458	53.95 ug/L #	1
42) Ethylbenzene SCAN	13.042	91	978	60.12 ug/L #	50
43) m&p-Xylene SCAN	13.225	91	650	28.79 ug/L #	1
44) o-Xylene SCAN	13.860	91	612	47.62 ug/L #	79
45) 1,1,2,2-Tetrachloroeth...	14.923	83	123	20.19 ug/L #	90
46) 1,3,5-Trimethylbenzene...	15.428	105	622	48.81 ug/L #	38
47) 1,2,4-Trimethylbenzene...	15.949	105	923	70.68 ug/L #	53

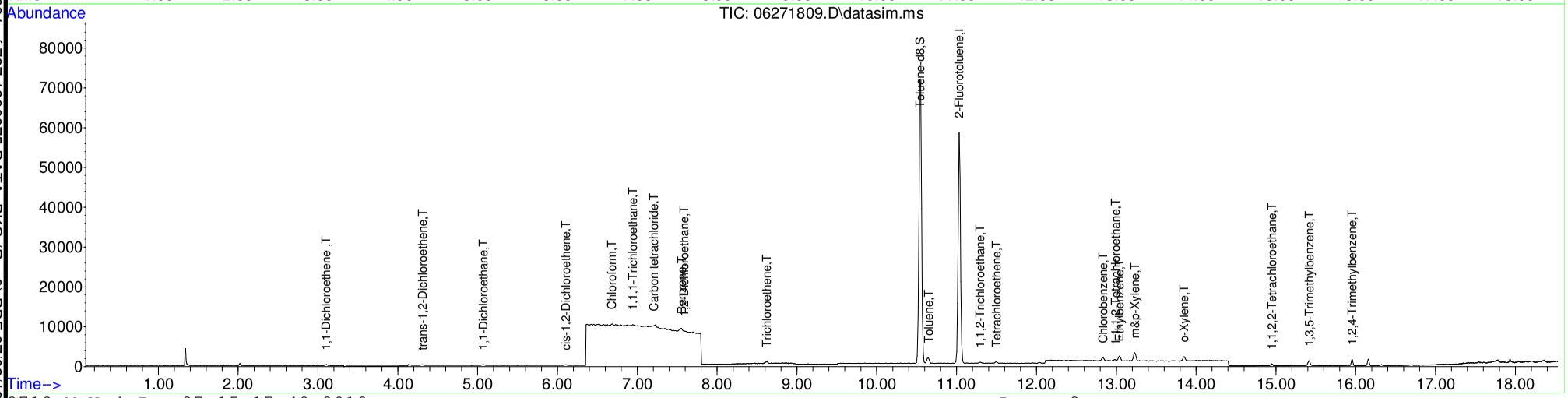
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271809.D
Acq On : 27 Jun 2018 12:41
InstName : AG5975C
Operator : TD
Sample : B18F097-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 15:17:48 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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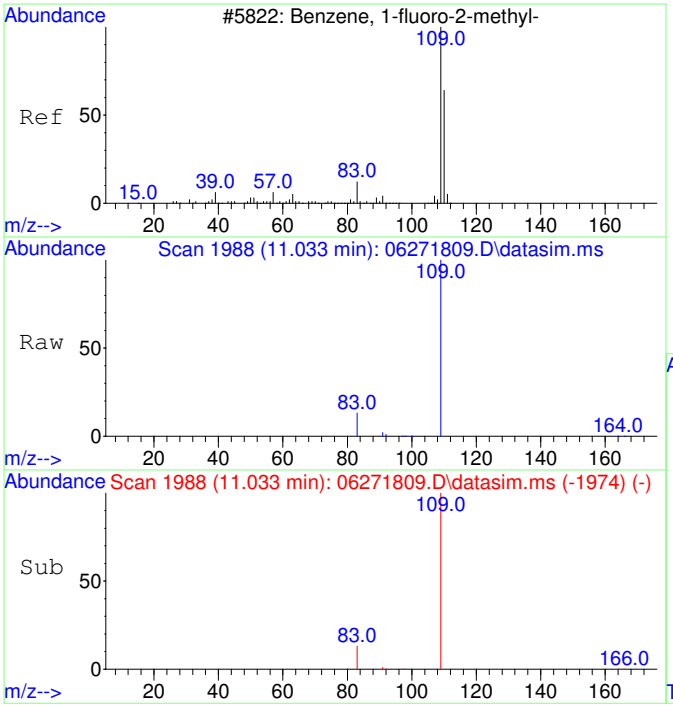
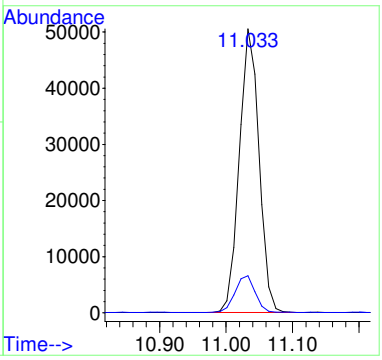
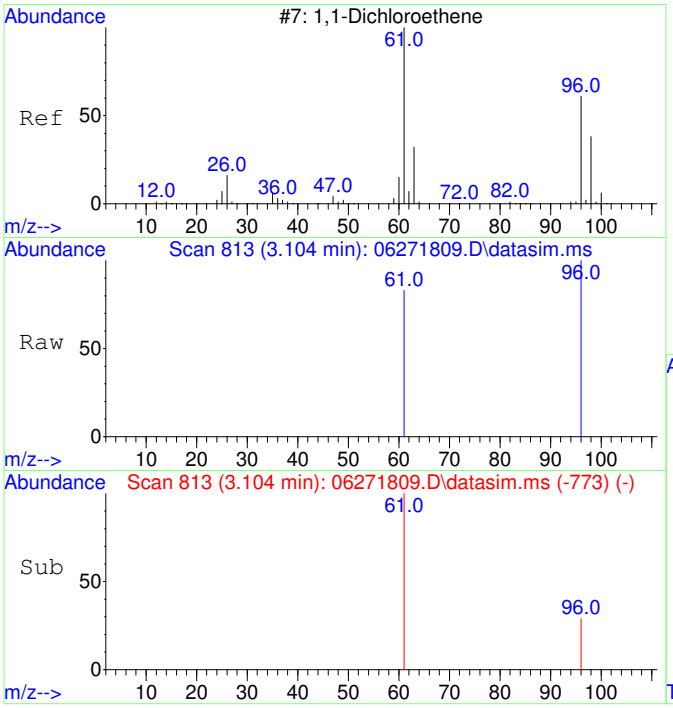


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:109 Resp: 104008

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

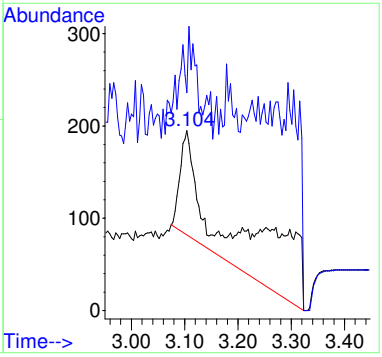




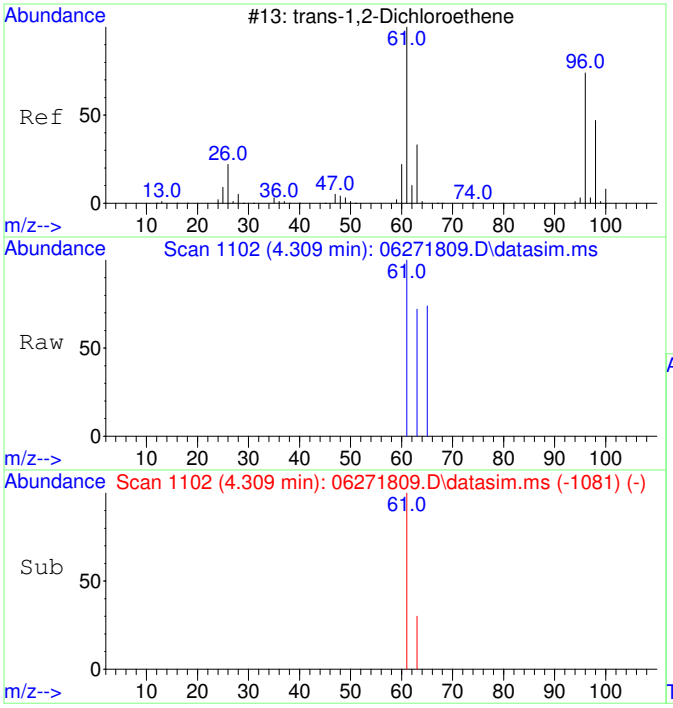
#2
1,1-Dichloroethene
Concen: 169.55 ug/L
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 739

Ion	Ratio	Lower	Upper
61	100		
96	34.9	28.7	88.7



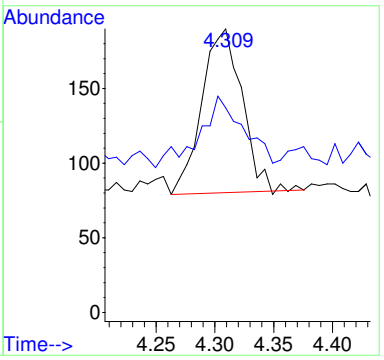
Before MI:
IMPROPER
BASELINE

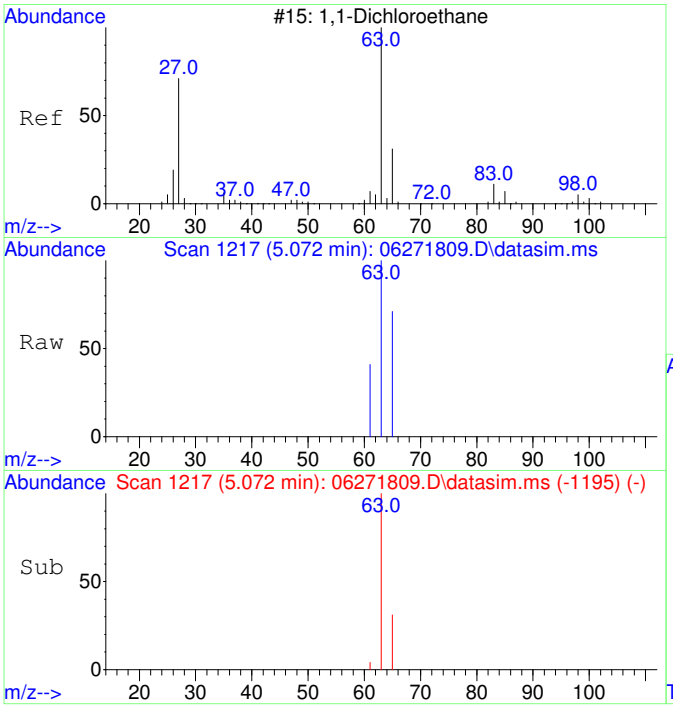


#3
trans-1,2-Dichloroethene
Concen: 56.12 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.014 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 261

Ion	Ratio	Lower	Upper
61	100		
63	42.9	2.0	62.0

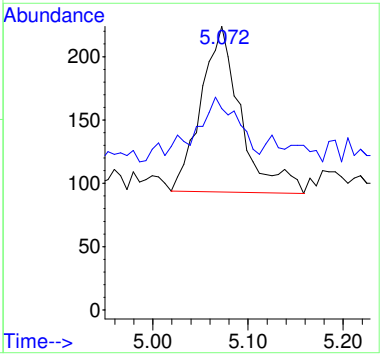


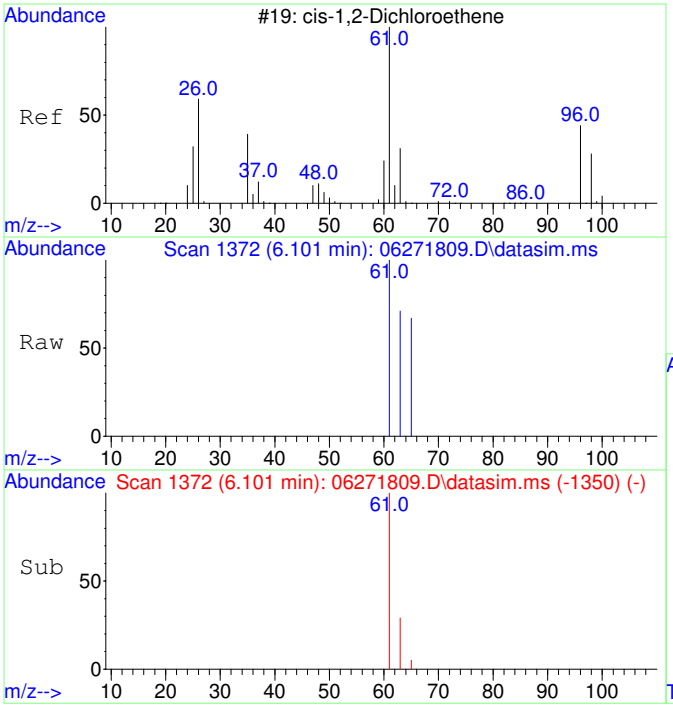


#4
1,1-Dichloroethane
Concen: 65.82 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.007 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 63 Resp: 381

Ion	Ratio	Lower	Upper
63	100		
65	41.5	1.5	61.5

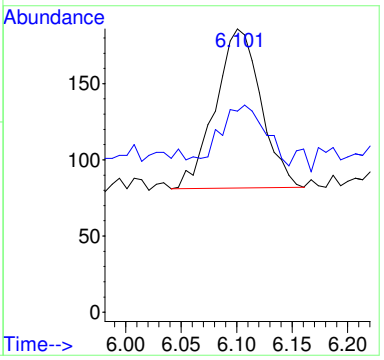


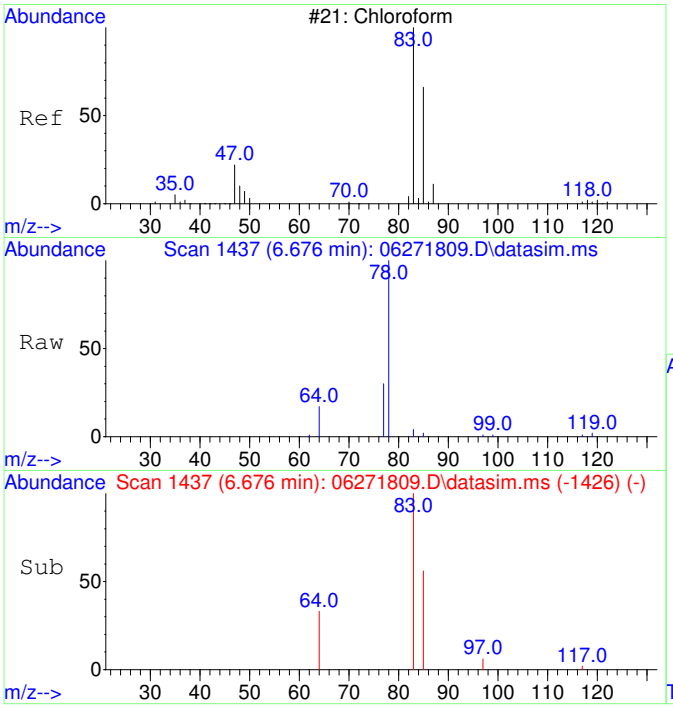


#5
cis-1,2-Dichloroethene
Concen: 52.18 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 298

Ion	Ratio	Lower	Upper
61	100		
63	36.2	2.2	62.2

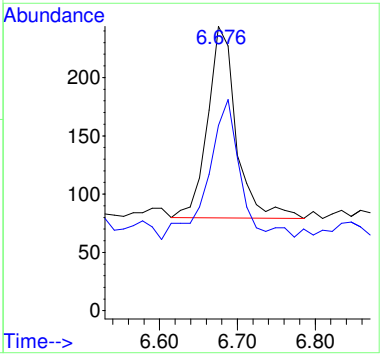


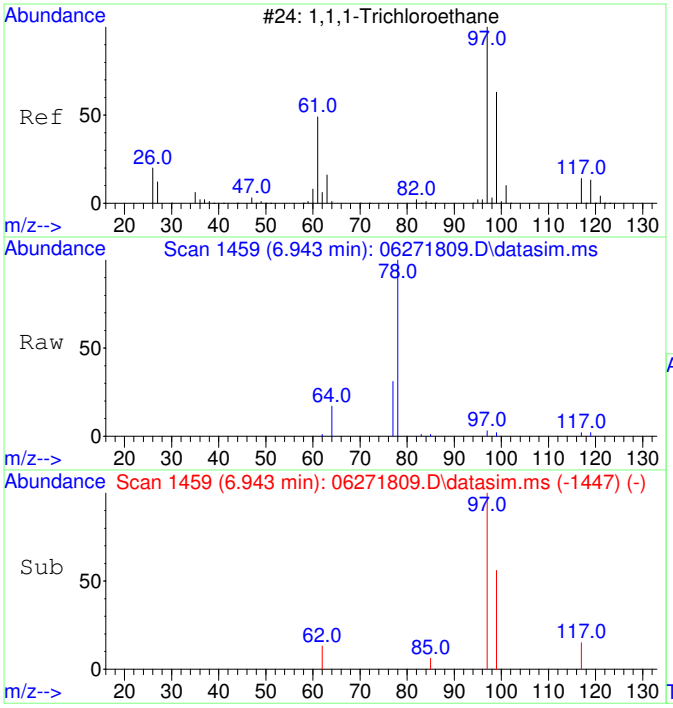


#6
Chloroform
Concen: 68.31 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 420

Ion	Ratio	Lower	Upper
83	100		
85	83.6	34.8	94.8

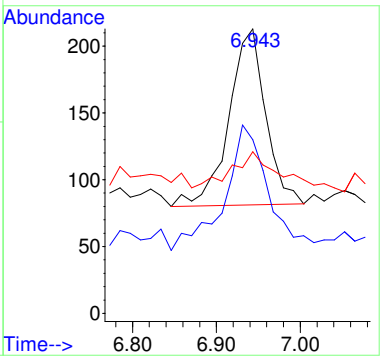


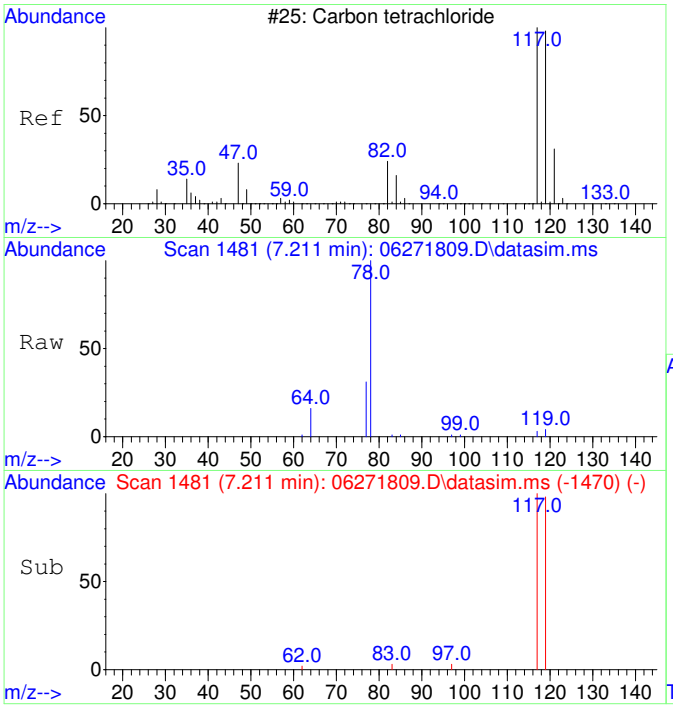


#7
1,1,1-Trichloroethane
Concen: 66.42 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
99	84.3	34.6	94.6
117	24.4	0.0	42.9

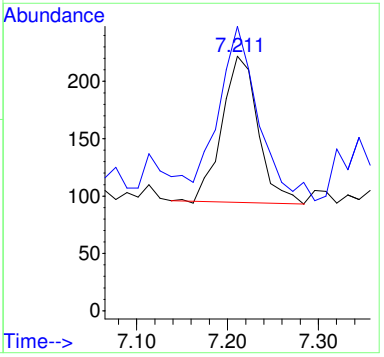


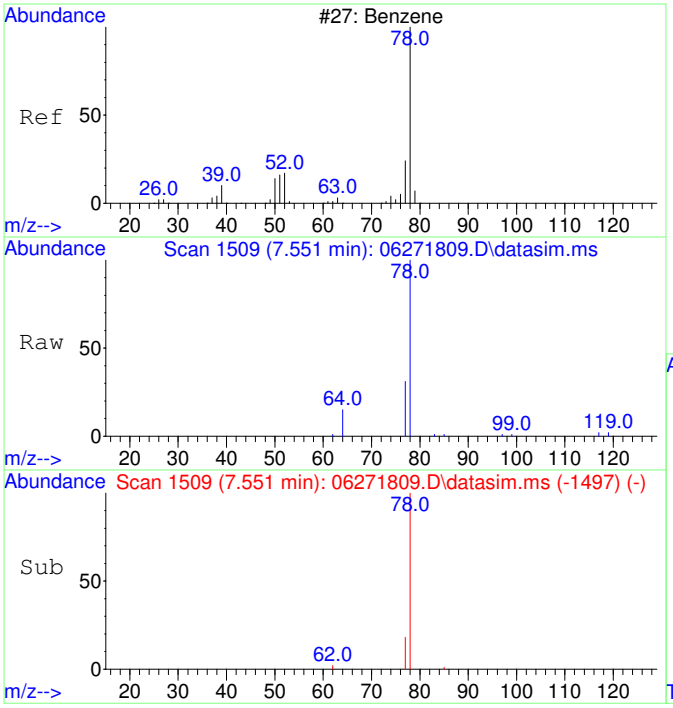


#8
Carbon tetrachloride
Concen: 61.40 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:117 Resp: 352

Ion	Ratio	Lower	Upper
117	100		
119	138.9	65.9	125.9#

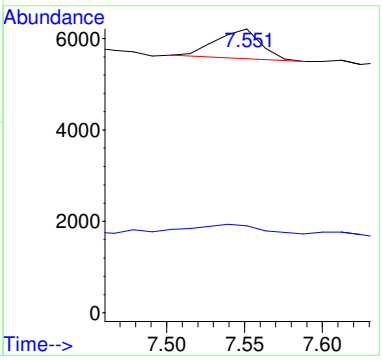


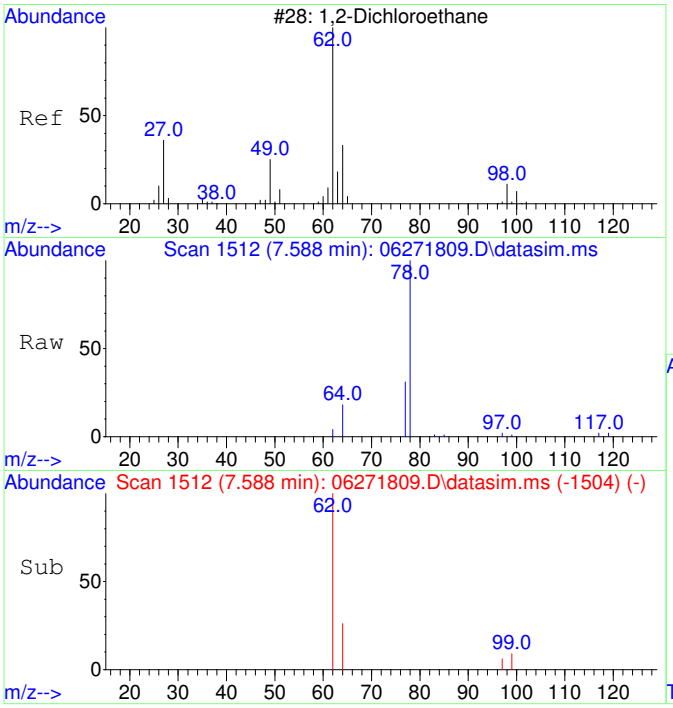


#9
Benzene
Concen: 74.13 ug/L
RT: 7.551 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 78 Resp: 1238

Ion	Ratio	Lower	Upper
78	100		
77	72.4	0.0	53.0#

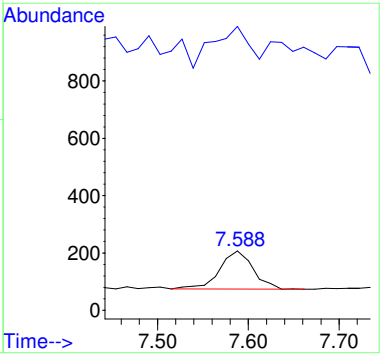


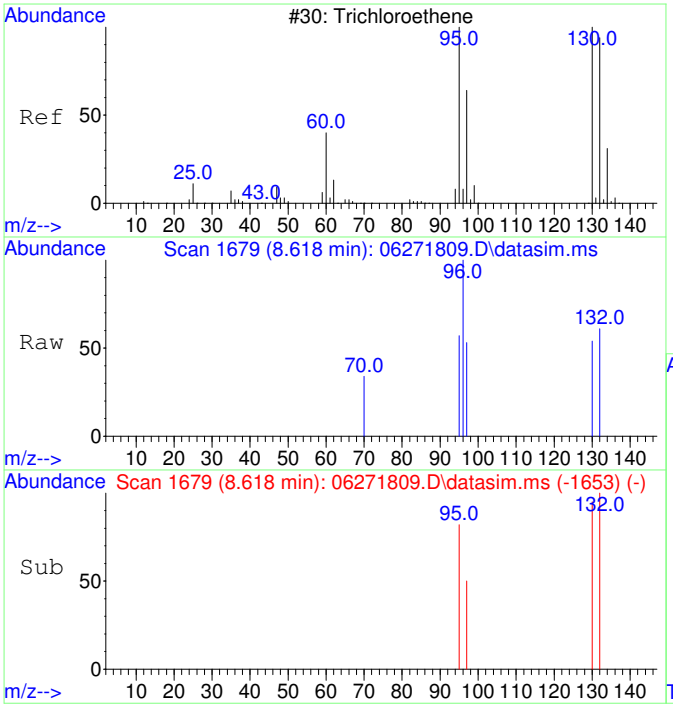


#10
1,2-Dichloroethane
Concen: 62.99 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 62 Resp: 339

Ion	Ratio	Lower	Upper
62	100		
64	117.4	2.3	62.3#

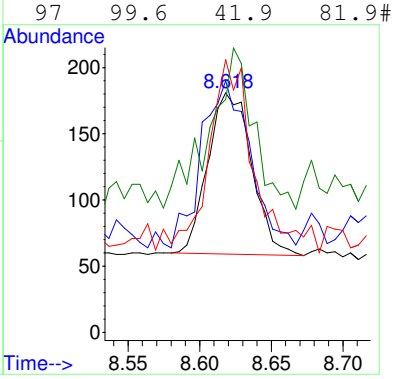


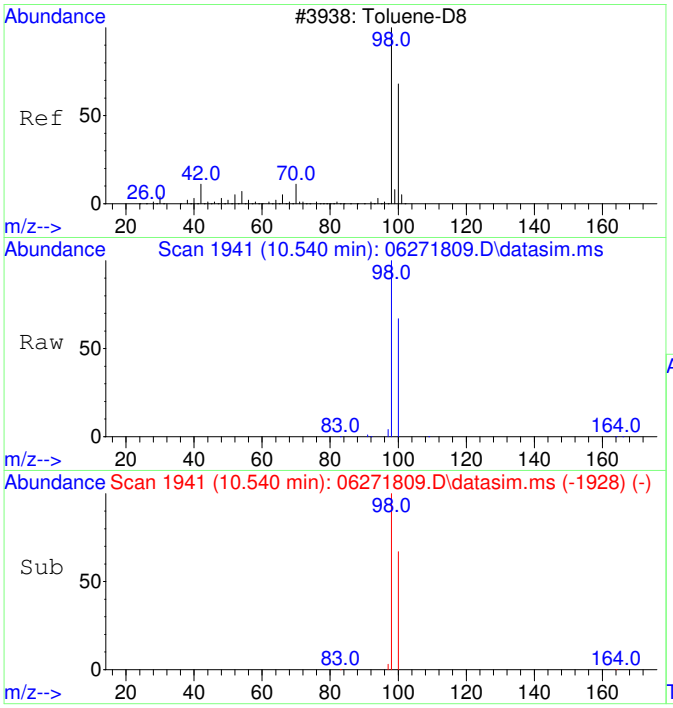


#11
Trichloroethene
Concen: 56.65 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:130 Resp: 260

Ion	Ratio	Lower	Upper
130	100		
95	116.2	66.0	126.0
132	114.2	78.8	118.8
97	99.6	41.9	81.9#

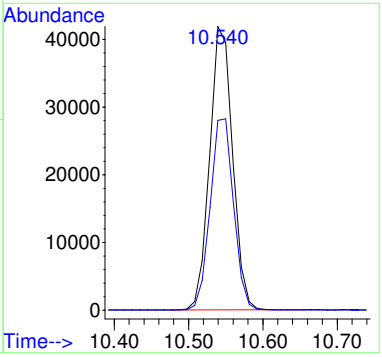


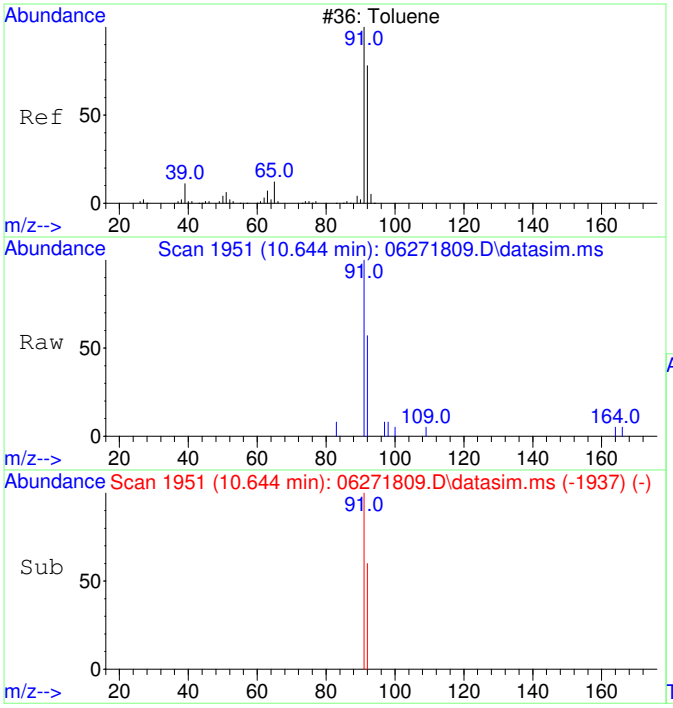


#12
Toluene-d8
Concen: 5295.18 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 98 Resp: 89457

Ion	Ratio	Lower	Upper
98	100		
100	68.8	38.7	98.7

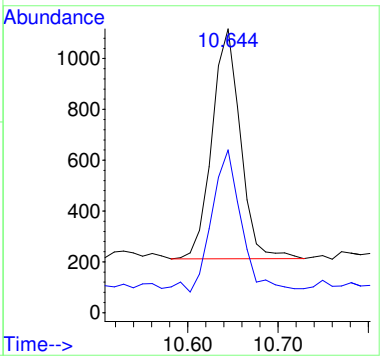


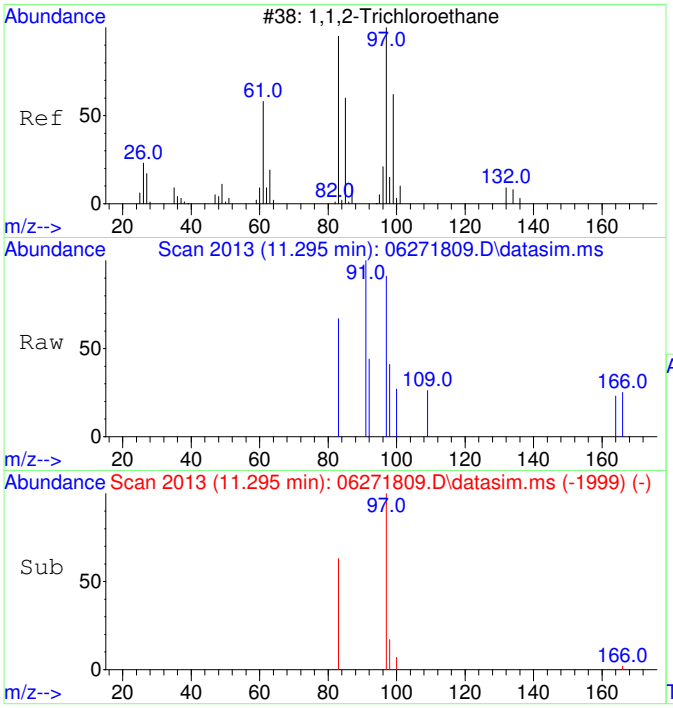


#13
Toluene
Concen: 87.19 ug/L
RT: 10.644 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1975

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

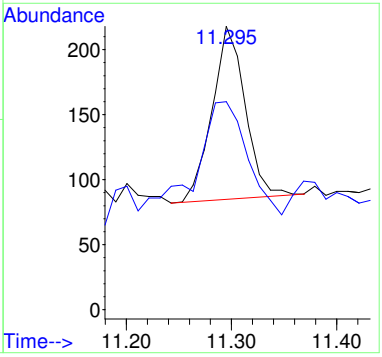


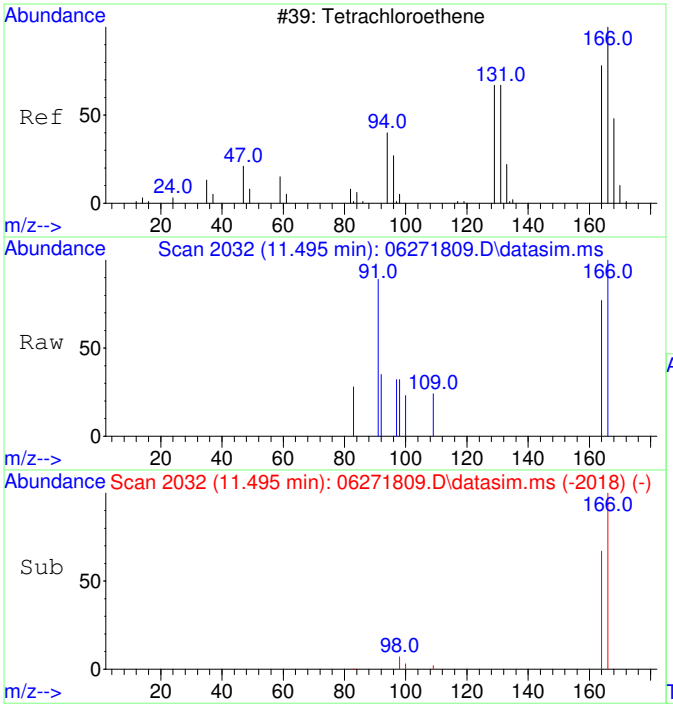


#14
1,1,2-Trichloroethane
Concen: 62.37 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 292

Ion	Ratio	Lower	Upper
97	100		
83	106.5	53.4	113.4

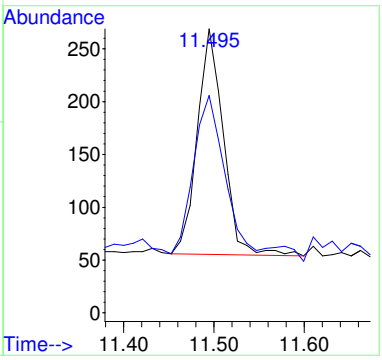


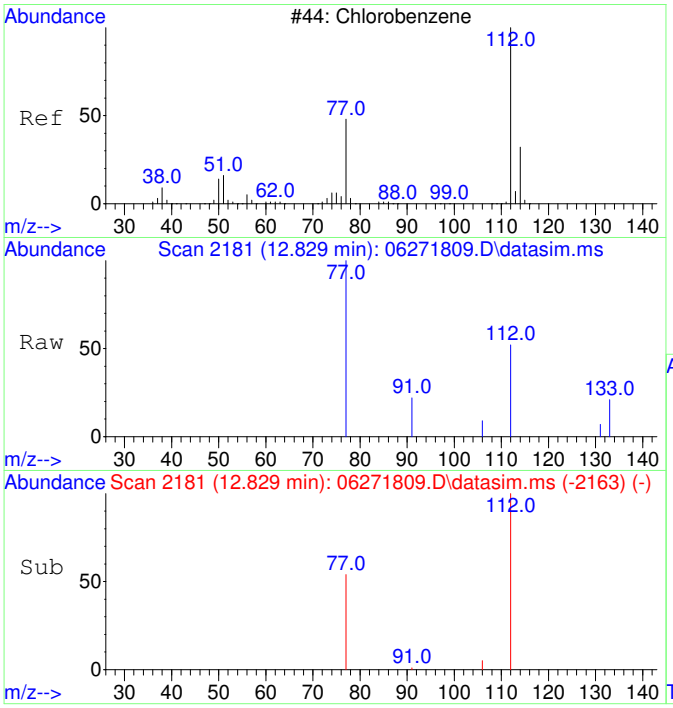


#15
Tetrachloroethene
Concen: 67.06 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:166 Resp: 428

Ion	Ratio	Lower	Upper
166	100		
164	89.3	47.8	107.8

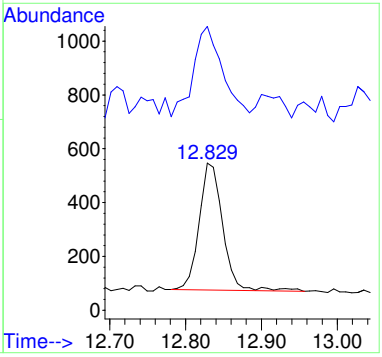


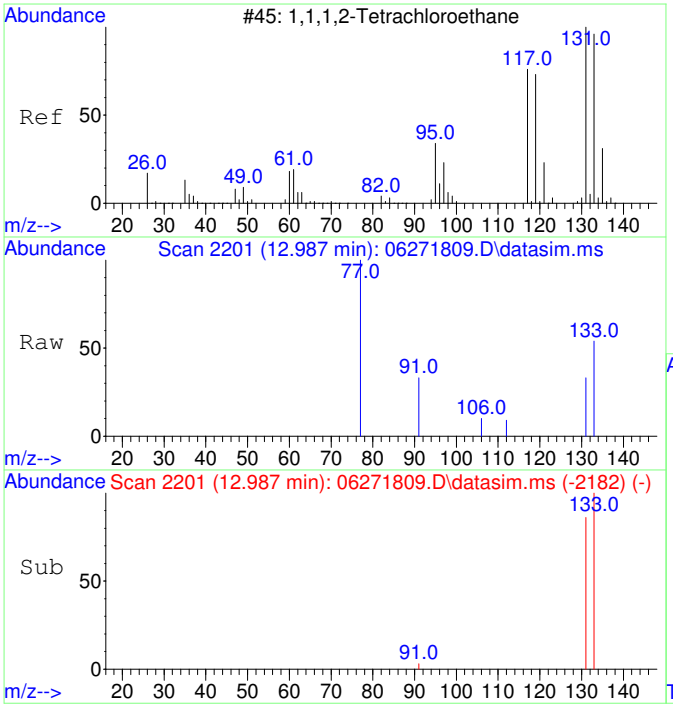


#16
Chlorobenzene
Concen: 63.03 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:112 Resp: 1019

Ion	Ratio	Lower	Upper
112	100		
77	87.4	28.1	88.1

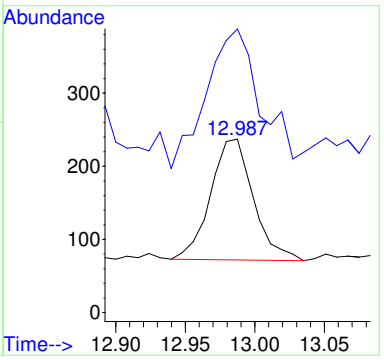


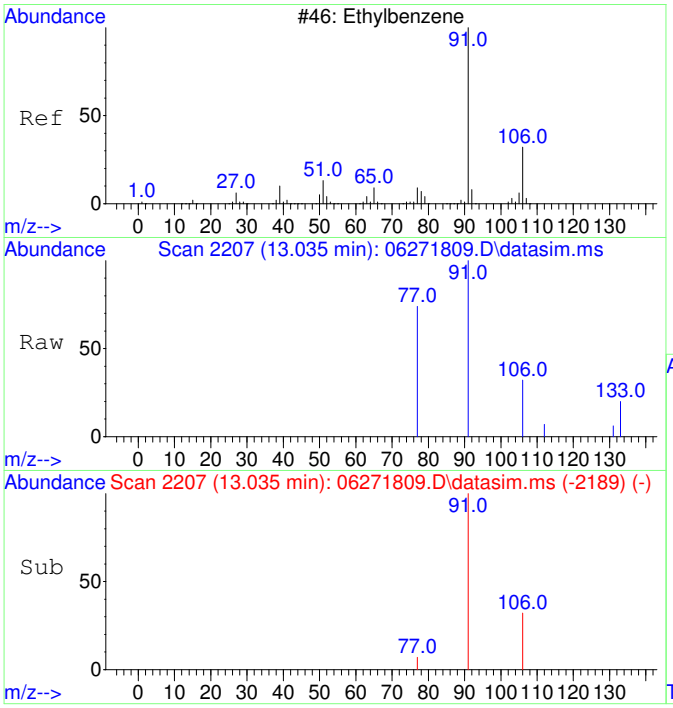


#17
1,1,1,2-Tetrachloroethane
Concen: 64.52 ug/L
RT: 12.987 min Scan# 2201
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:131 Resp: 354

Ion	Ratio	Lower	Upper
131	100		
133	147.5	66.2	126.2#

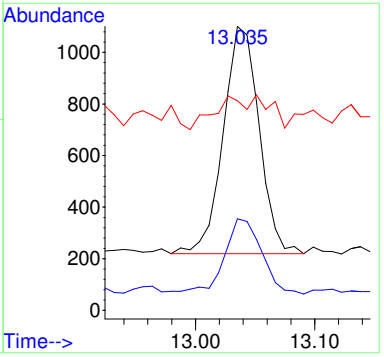


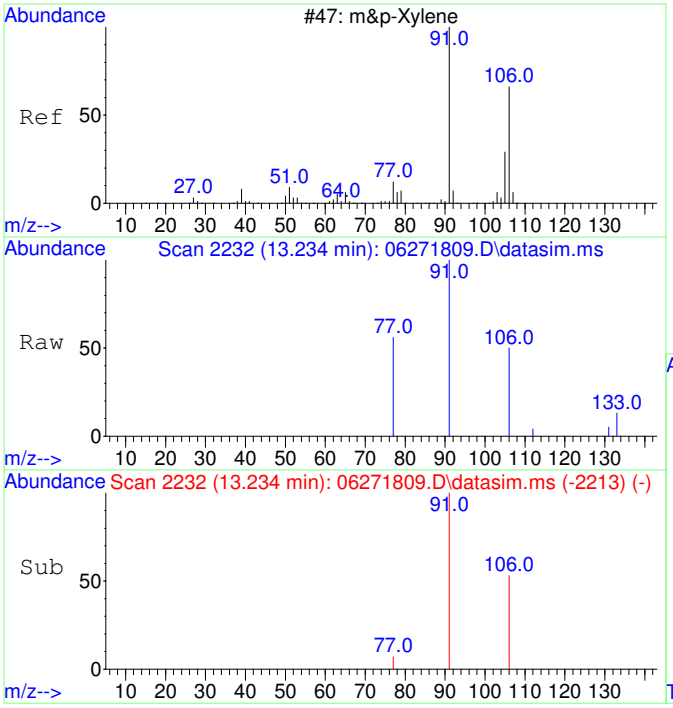


#18
Ethylbenzene
Concen: 67.95 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1847

Ion	Ratio	Lower	Upper
91	100		
106	34.2	2.8	62.8
77	12.9	0.0	38.6

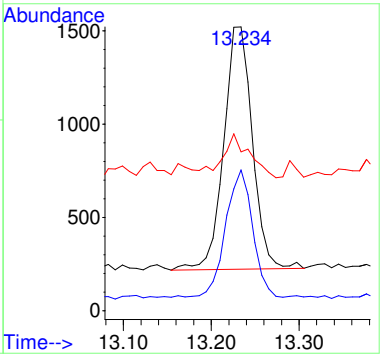


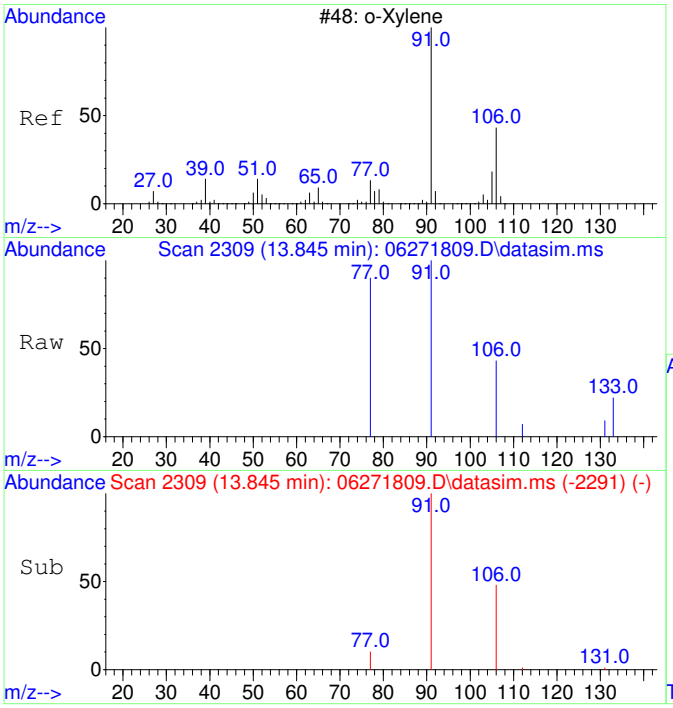


#19
m&p-Xylene
Concen: 139.90 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 2935

Ion	Ratio	Lower	Upper
91	100		
106	49.1	21.2	81.2
77	17.1	0.0	42.9

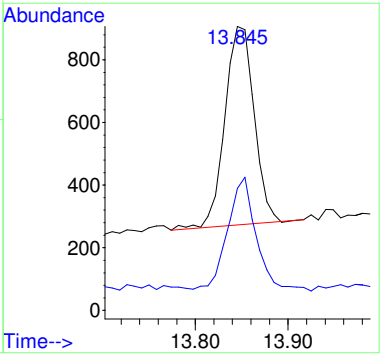


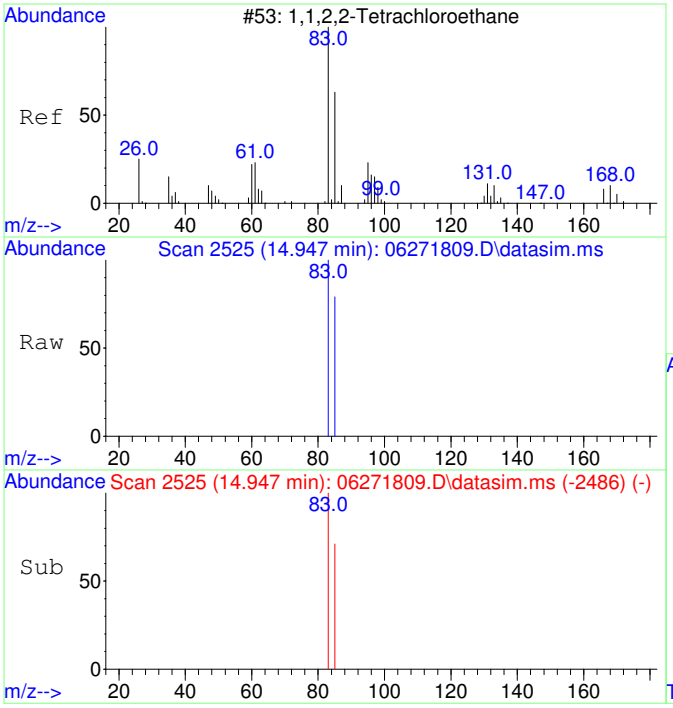


#20
o-Xylene
Concen: 62.65 ug/L
RT: 13.845 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1392

Ion	Ratio	Lower	Upper
91	100		
106	56.2	18.3	78.3

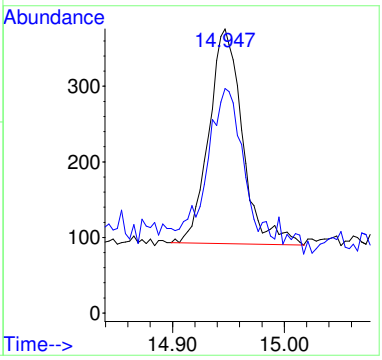


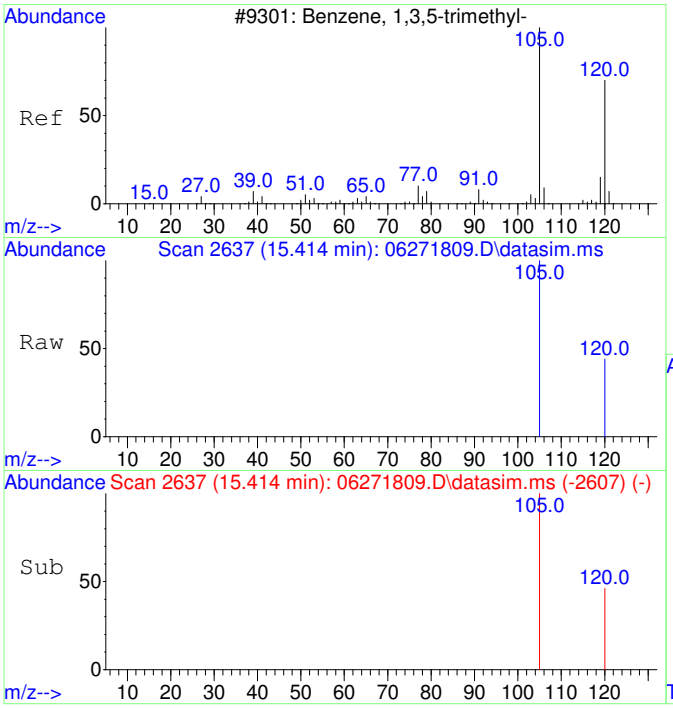


#21
1,1,2,2-Tetrachloroethane
Concen: 61.76 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 591

Ion	Ratio	Lower	Upper
83	100		
85	61.8	34.4	94.4

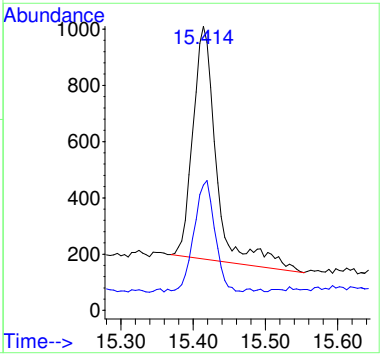


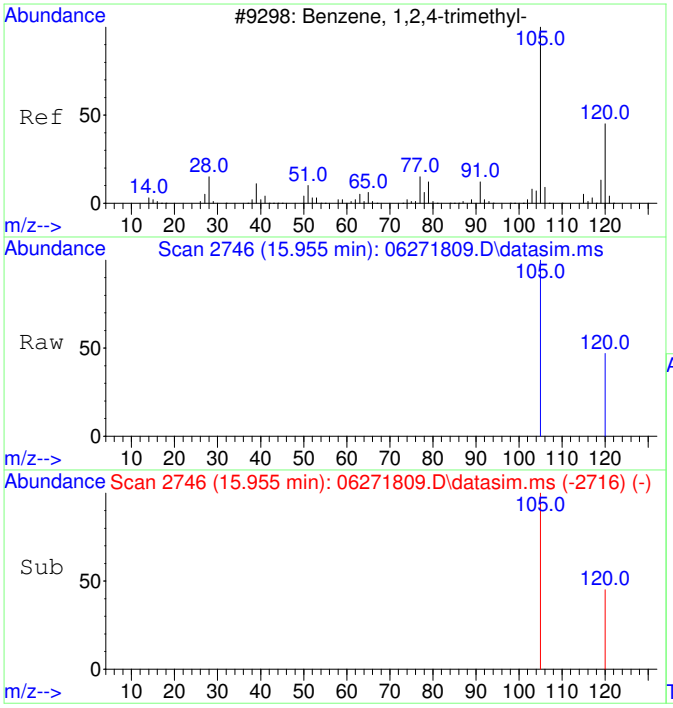


#22
1,3,5-Trimethylbenzene
Concen: 74.14 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 1864

Ion	Ratio	Lower	Upper
105	100		
120	42.5	19.1	79.1

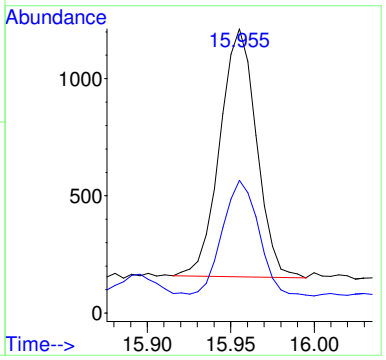


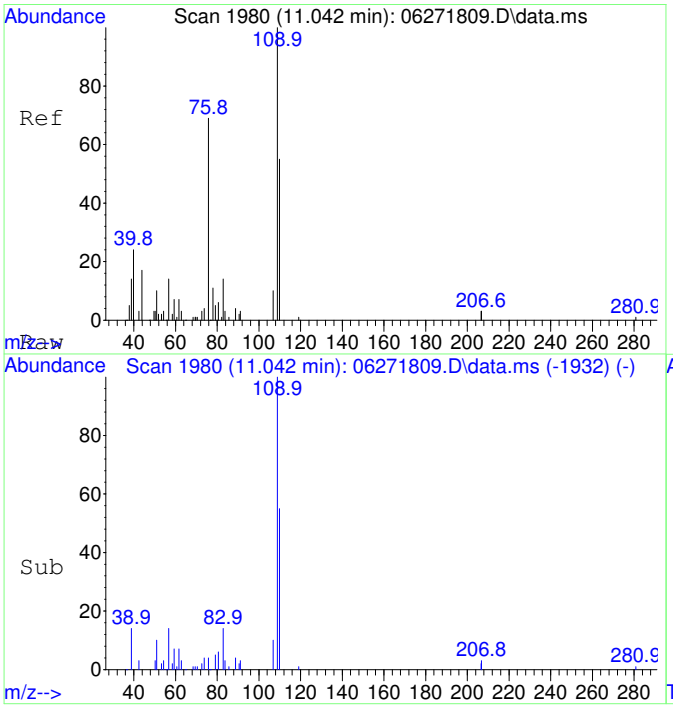


#23
1,2,4-Trimethylbenzene
Concen: 63.86 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 1606

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

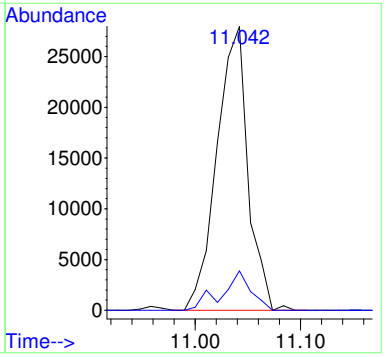


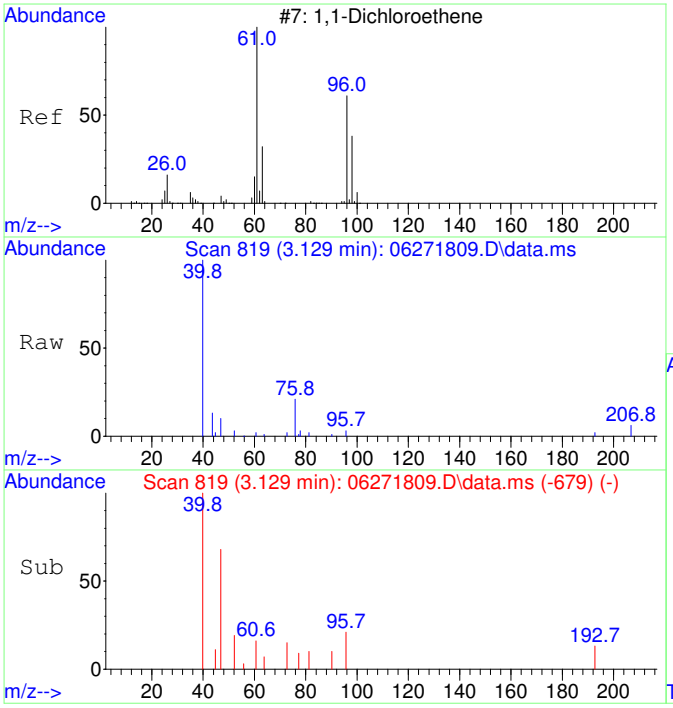


#25
2-Fluorotoluene SCAN
Concen: 4746.65 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:109 Resp: 57528

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	45.7

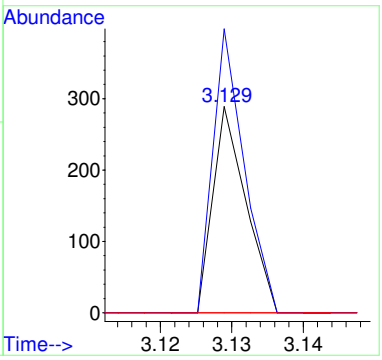


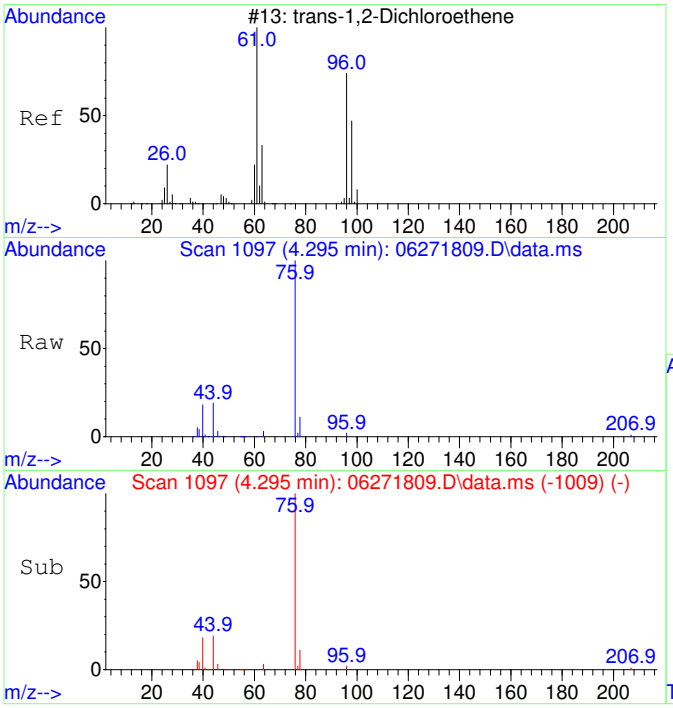


#26
1,1-Dichloroethene SCAN
Concen: 30.75 ug/L
RT: 3.129 min Scan# 819
Delta R.T. 0.018 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 93

Ion	Ratio	Lower	Upper
61	100		
96	130.1	23.8	83.8#
98	0.0	8.8	68.8#

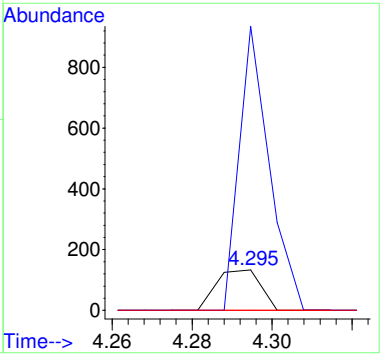


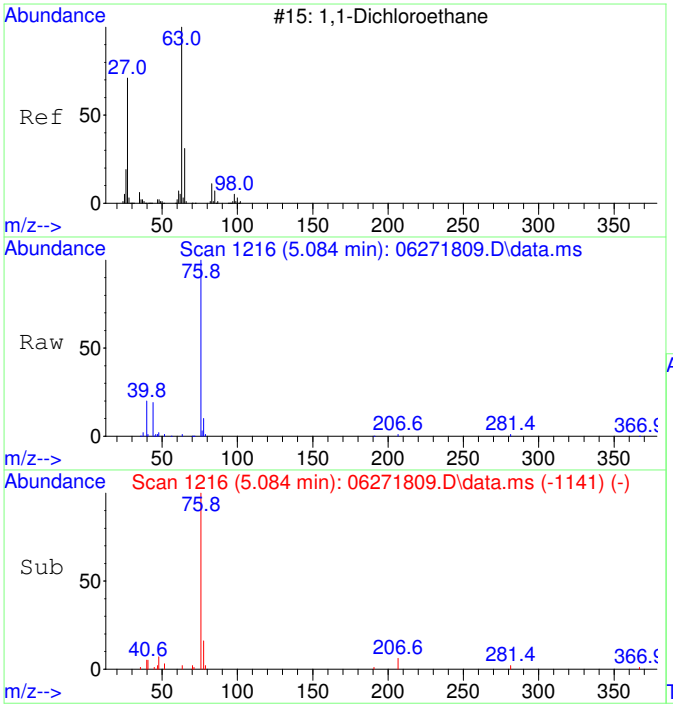


#27
trans-1,2-Dichloroethene SCAN
Concen: 29.25 ug/L
RT: 4.295 min Scan# 1097
Delta R.T. -0.040 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 103

Ion	Ratio	Lower	Upper
61	100		
96	473.8	37.9	97.9#
98	0.0	12.7	72.7#

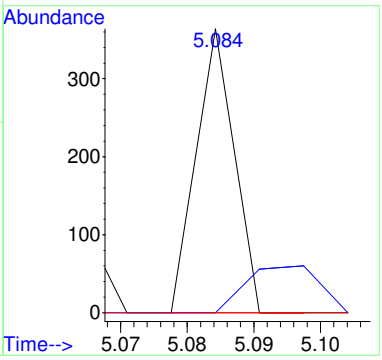


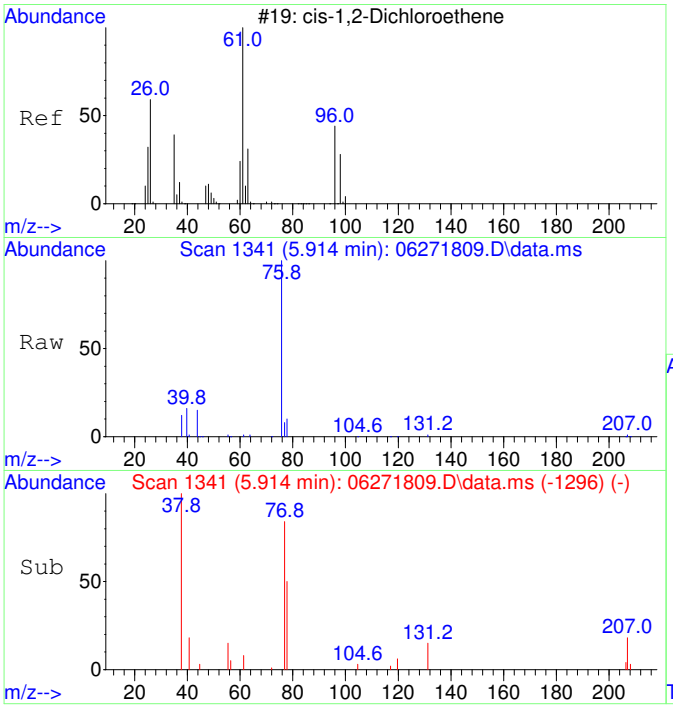


#28
1,1-Dichloroethane SCAN
Concen: 32.37 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 63 Resp: 145

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

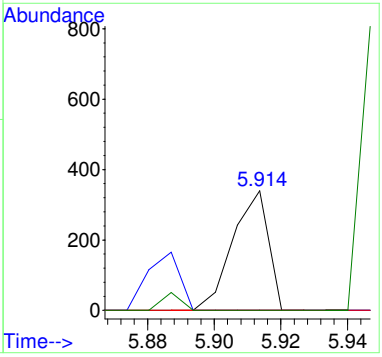


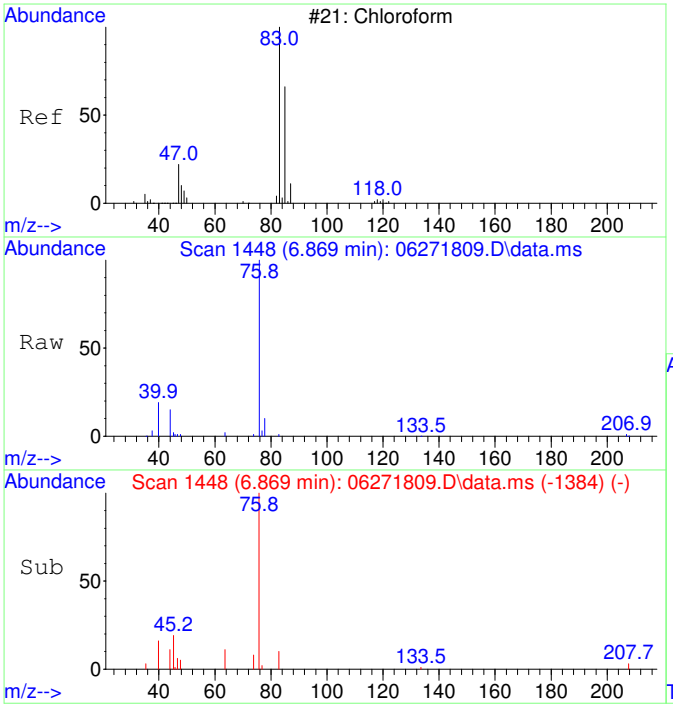


#29
cis-1,2-Dichloroethene SCAN
Concen: 65.05 ug/L
RT: 5.914 min Scan# 1341
Delta R.T. -0.199 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 252

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#

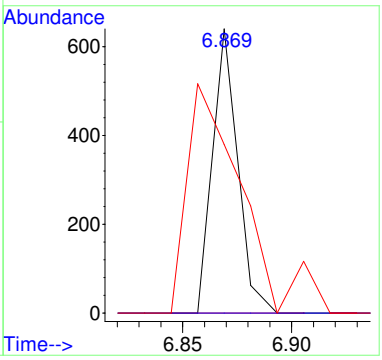


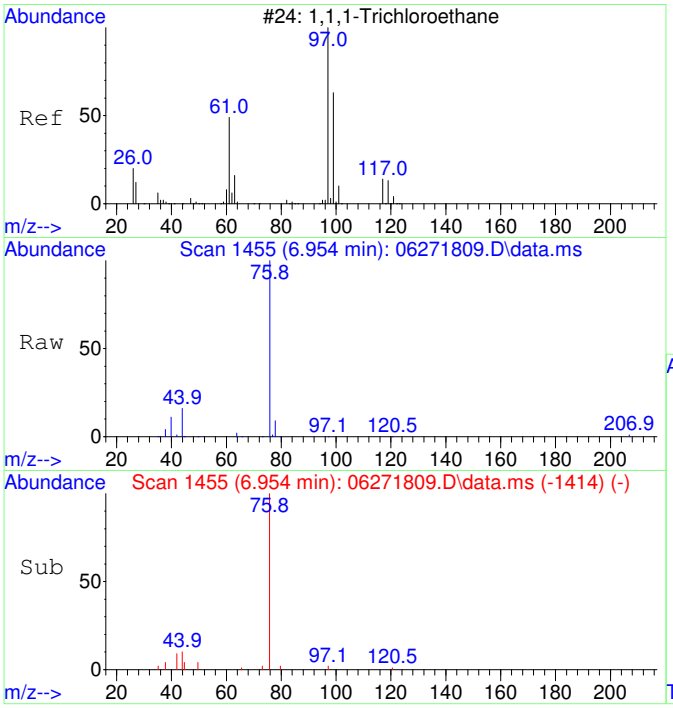


#30
Chloroform SCAN
Concen: 107.68 ug/L
RT: 6.869 min Scan# 1448
Delta R.T. 0.170 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 512

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	178.5	0.0	57.9#

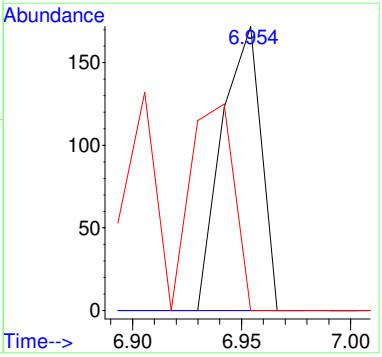


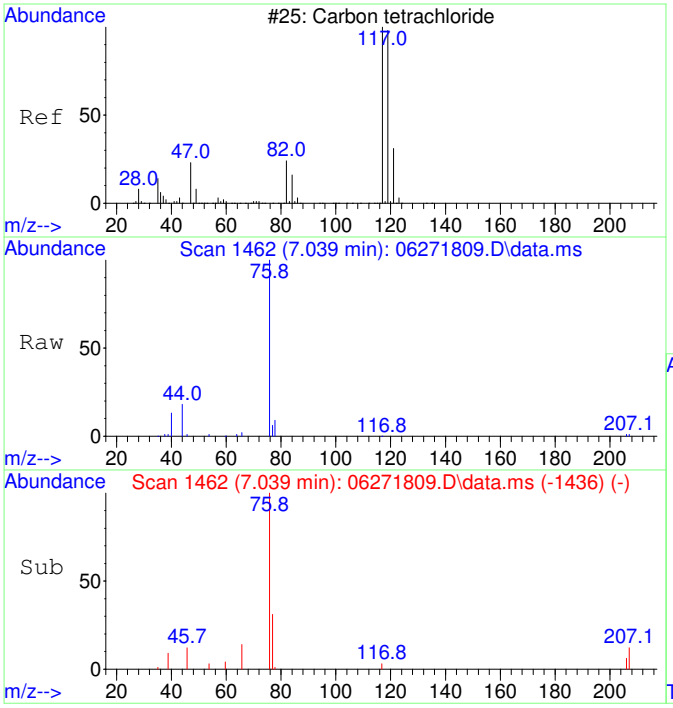


#31
1,1,1-Trichloroethane SCAN
Concen: 50.80 ug/L
RT: 6.954 min Scan# 1455
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 215

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	81.4	15.1	75.1#

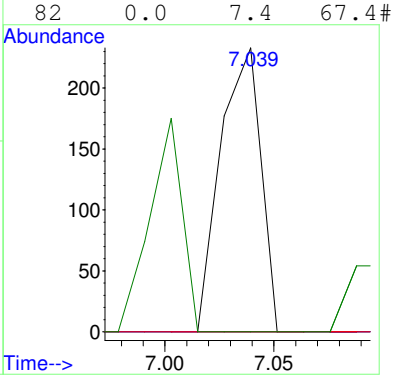


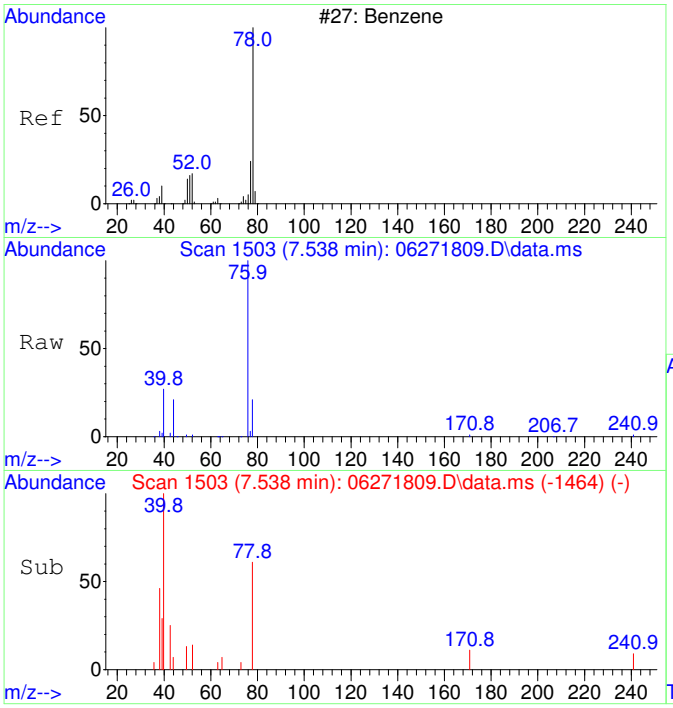


#32
Carbon tetrachloride SCAN
Concen: 71.69 ug/L
RT: 7.039 min Scan# 1462
Delta R.T. -0.183 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:117 Resp: 299

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#

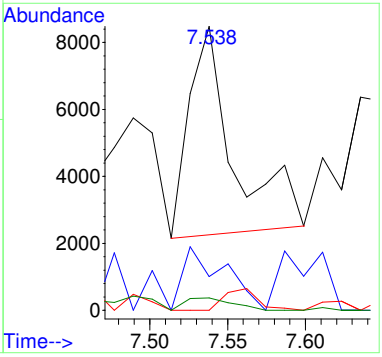


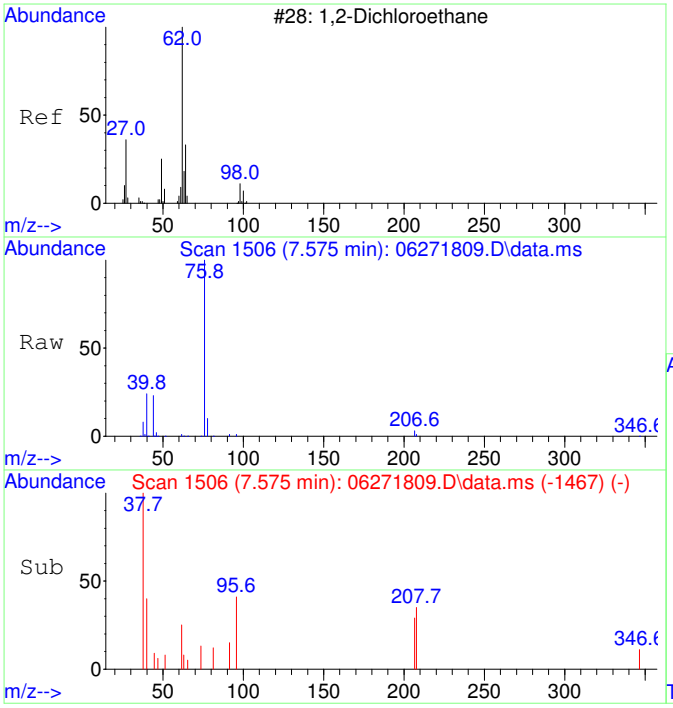


#33
Benzene SCAN
Concen: 985.34 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.025 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 78 Resp: 12437

Ion	Ratio	Lower	Upper
78	100		
77	28.7	3.0	63.0
51	0.0	0.0	56.4
52	6.3	0.0	48.0

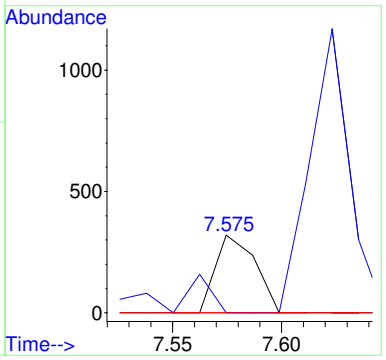


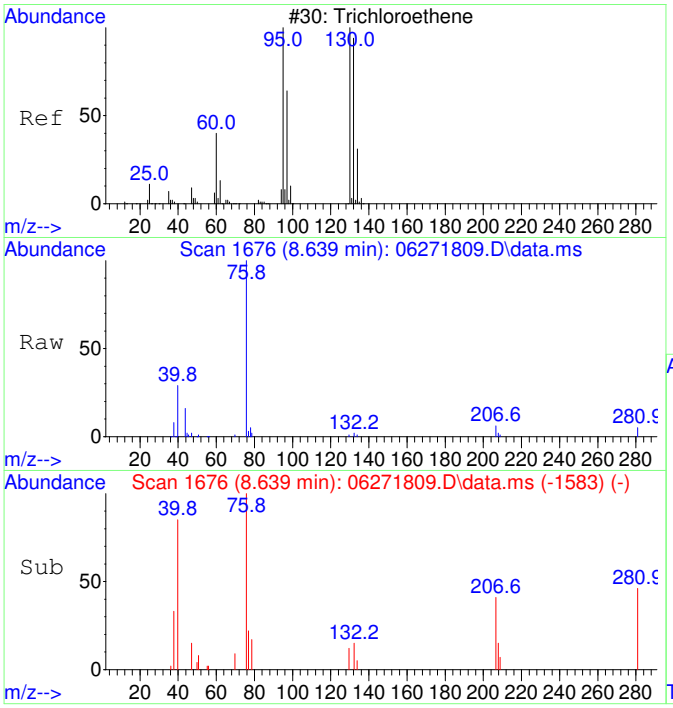


#34
1,2-Dichloroethane SCAN
Concen: 94.32 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. -0.025 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 62 Resp: 406

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

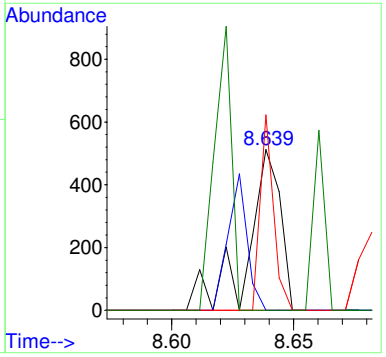


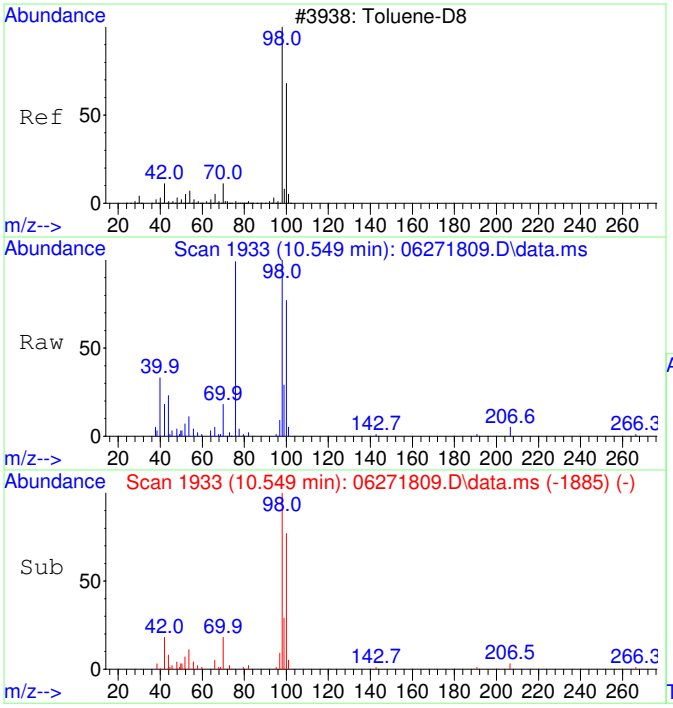


#35
Trichloroethene SCAN
Concen: 154.43 ug/L
RT: 8.639 min Scan# 1676
Delta R.T. 0.005 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:130 Resp: 477

Ion	Ratio	Lower	Upper
130	100		
95	50.1	70.5	130.5#
132	49.7	63.8	123.8#
97	94.1	34.8	94.8

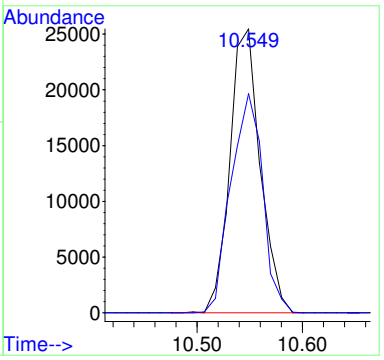


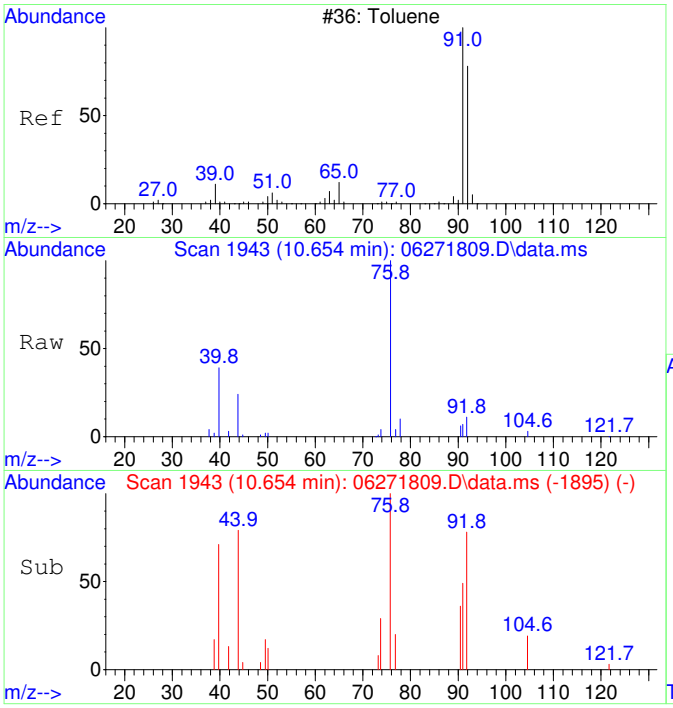


#36
Toluene-d8 SCAN
Concen: 4677.28 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 98 Resp: 51245

Ion	Ratio	Lower	Upper
98	100		
100	80.7	39.5	99.5

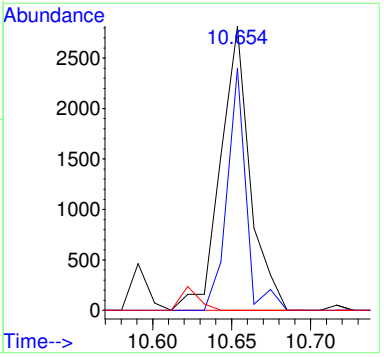


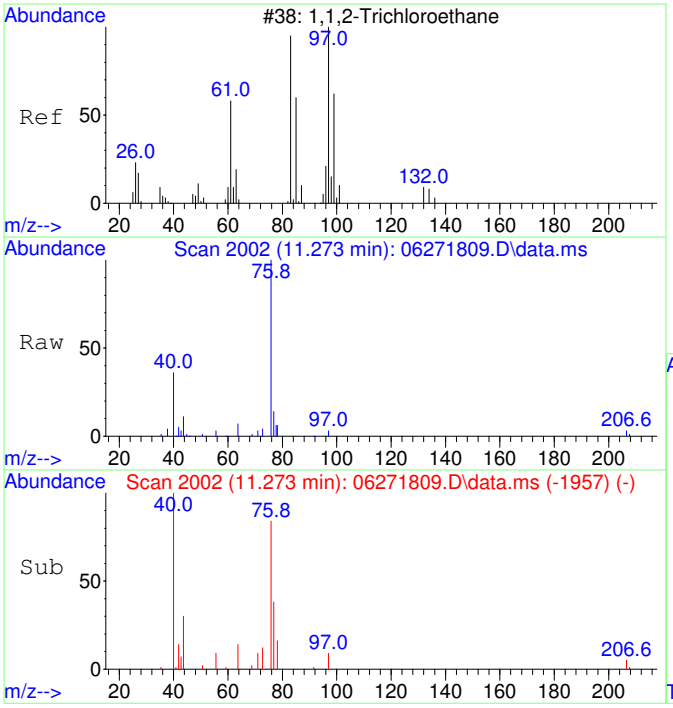


#37
Toluene SCAN
Concen: 262.23 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 3670

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.6	86.6
65	0.0	0.0	42.3

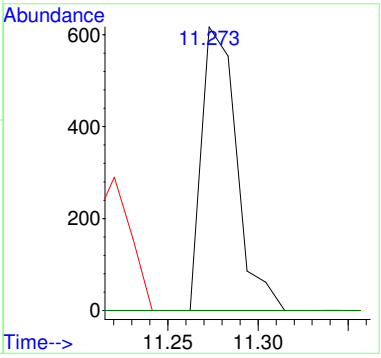


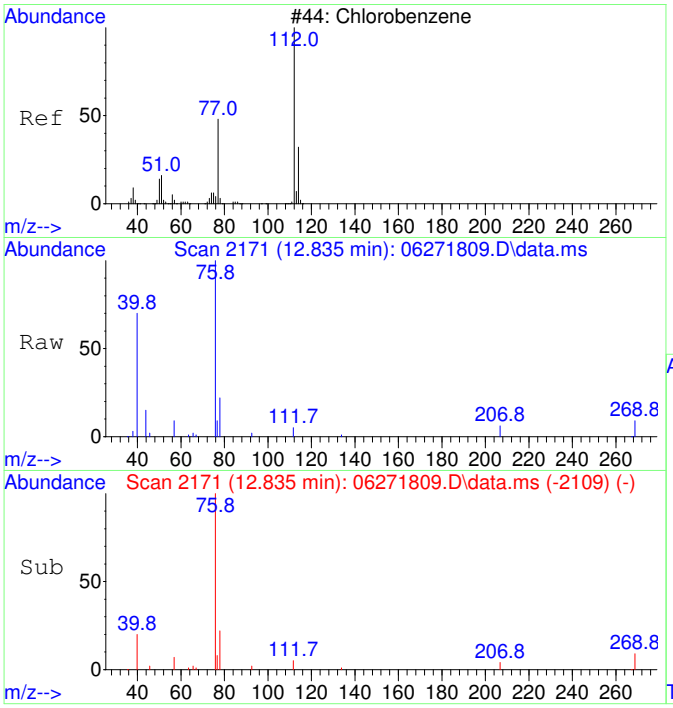


#38
1,1,2-Trichloroethane SCAN
Concen: 309.49 ug/L
RT: 11.273 min Scan# 2002
Delta R.T. -0.032 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 830

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#

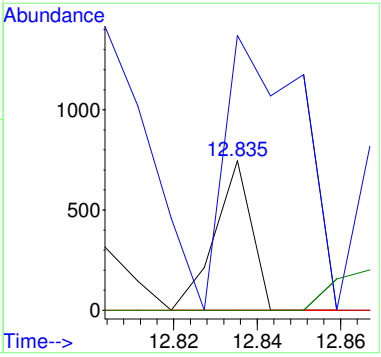


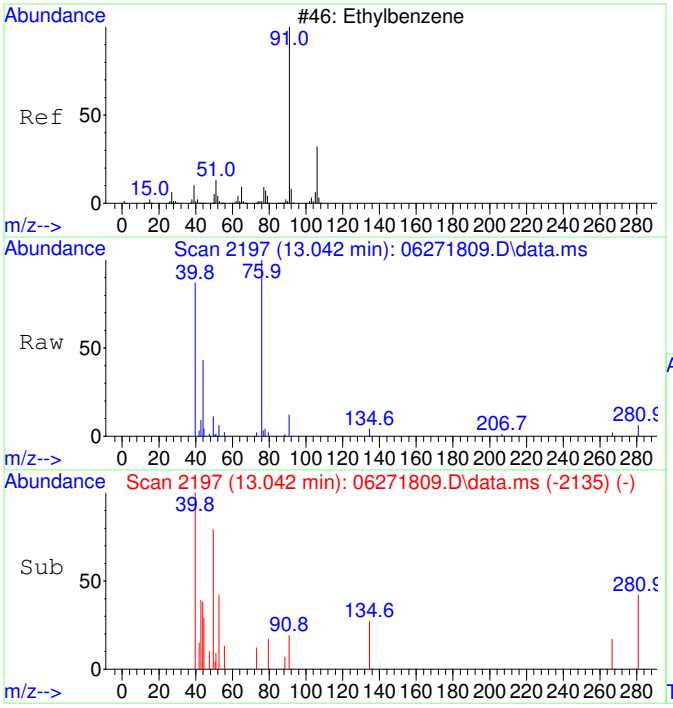


#40
Chlorobenzene SCAN
Concen: 53.95 ug/L
RT: 12.835 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:112 Resp: 458

Ion	Ratio	Lower	Upper
112	100		
77	376.2	28.4	88.4#
114	0.0	0.0	59.5
51	0.0	0.0	53.7

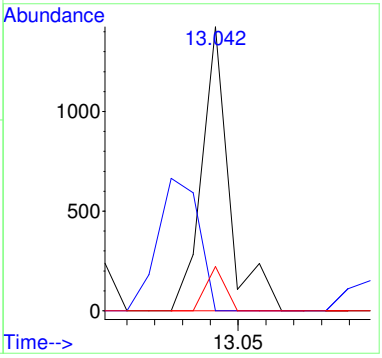


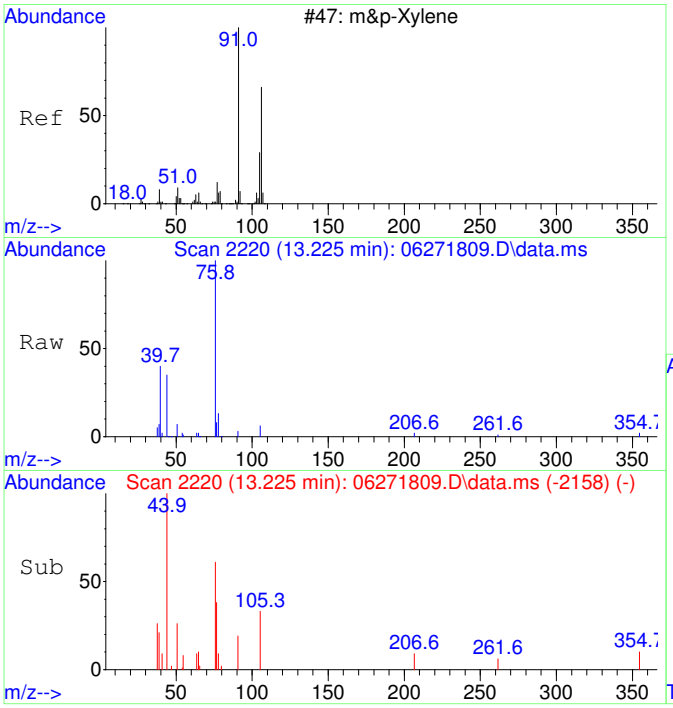


#42
Ethylbenzene SCAN
Concen: 60.12 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 978

Ion	Ratio	Lower	Upper
91	100		
106	70.0	3.2	63.2#
51	10.8	0.0	40.1

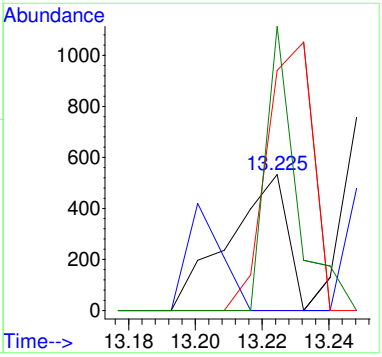


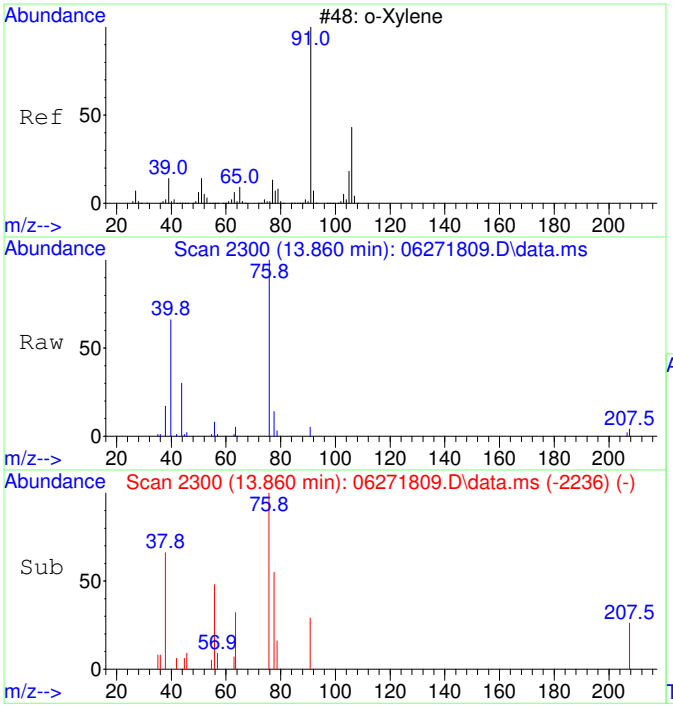


#43
m&p-Xylene SCAN
Concen: 28.79 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 650

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	156.5	0.0	51.1#
51	108.9	0.0	40.7#

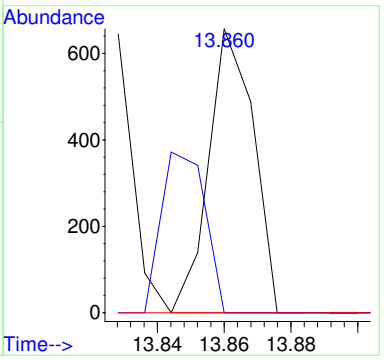


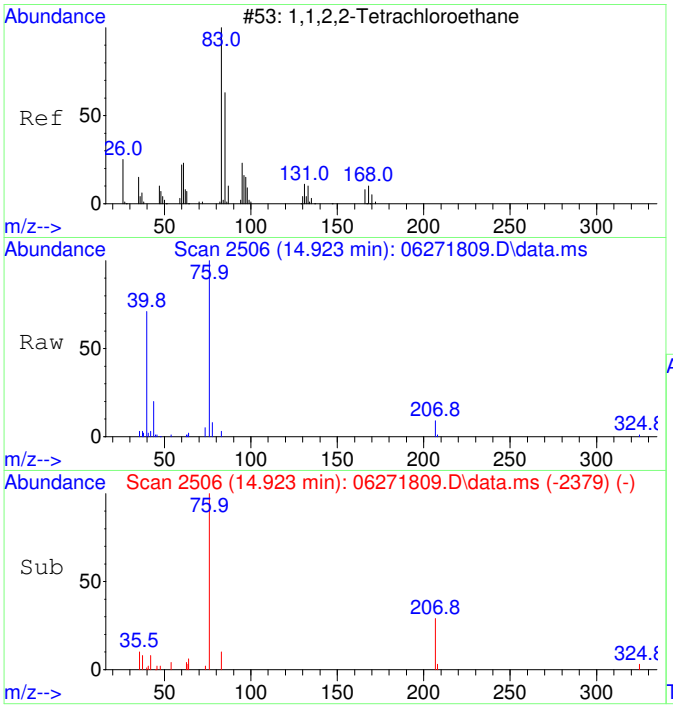


#44
o-Xylene SCAN
Concen: 47.62 ug/L
RT: 13.860 min Scan# 2300
Delta R.T. 0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 612

Ion	Ratio	Lower	Upper
91	100		
106	55.6	21.3	81.3
105	0.0	0.0	55.2

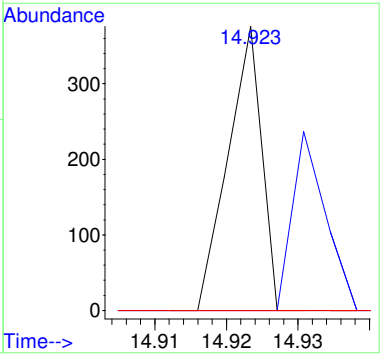


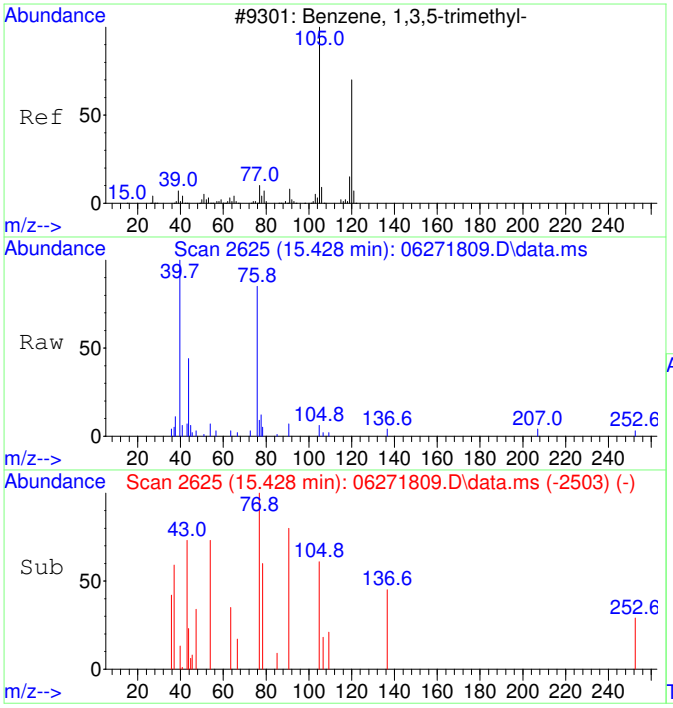


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 20.19 ug/L
RT: 14.923 min Scan# 2506
Delta R.T. -0.030 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 123

Ion	Ratio	Lower	Upper
83	100		
85	61.8	31.6	91.6
95	0.0	0.0	49.0

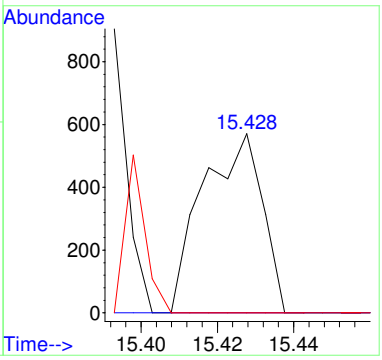


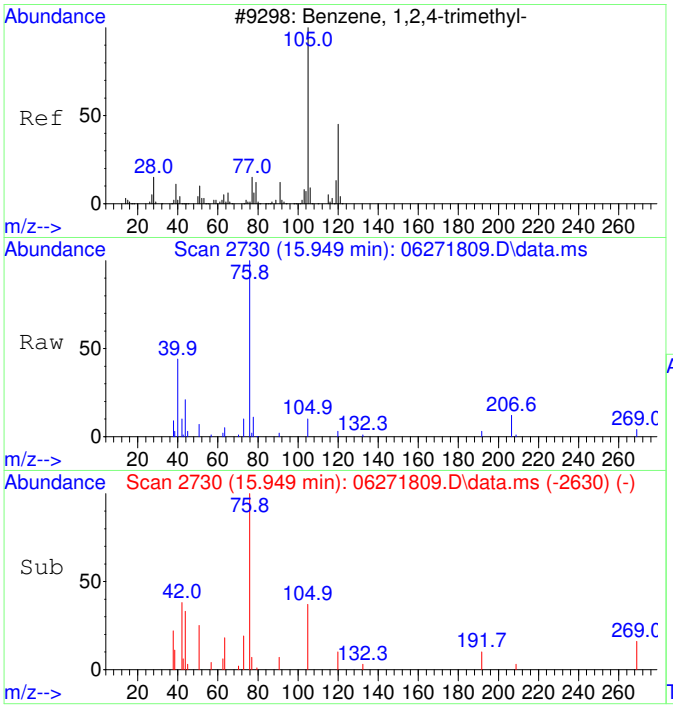


#46
1,3,5-Trimethylbenzene SCAN
Concen: 48.81 ug/L
RT: 15.428 min Scan# 2625
Delta R.T. 0.015 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 622

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

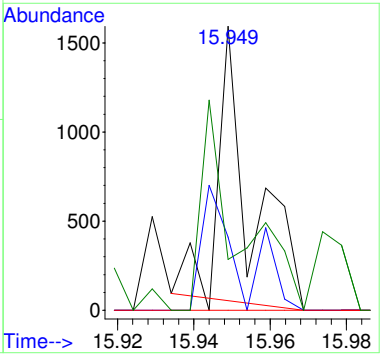




#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.68 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. -0.005 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 923

Ion	Ratio	Lower	Upper
105	100		
120	35.9	15.4	75.4
119	0.0	0.0	41.7
77	85.0	0.0	42.0#



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271809.D
Acq On : 27 Jun 2018 12:41
InstName : AG5975C
Operator : TD
Sample : B18F097-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

M.I. Performed By:
TD at 3:18 pm, Jun 27, 2018

M.I. Approved By:
ZR at 11:14 am, Jul 02, 2018

Quant Time: Jun 27 15:17:48 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

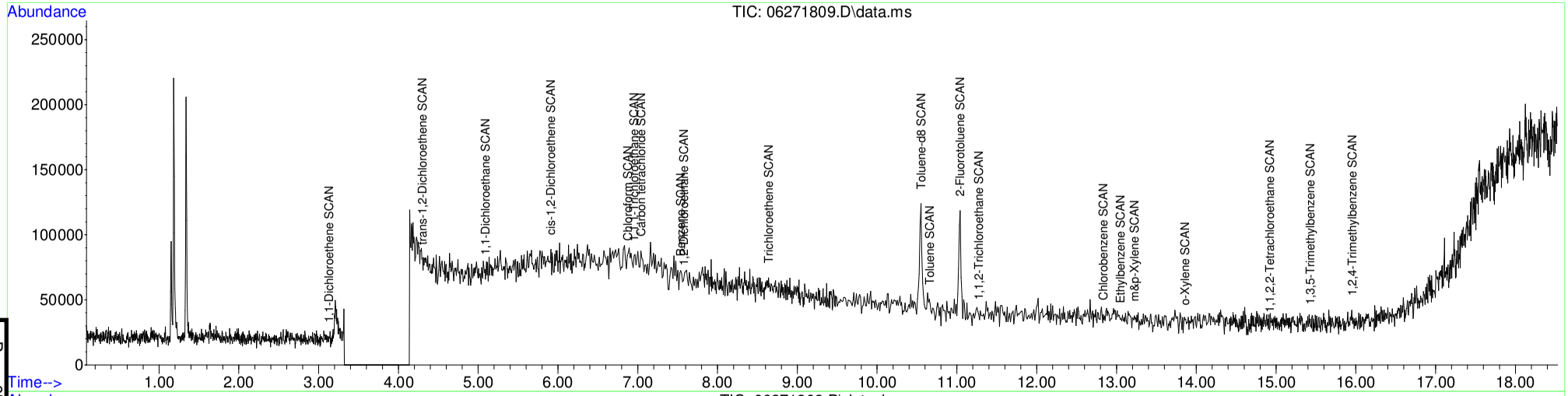
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	104008	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	89457	5295.18 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 105.90%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	231m	53.00 ug/L	
3] trans-1,2-Dichloroethene	4.309	61	261	56.12 ug/L	80
4] 1,1-Dichloroethane	5.072	63	381	65.82 ug/L	82
5] cis-1,2-Dichloroethene	6.101	61	298	52.18 ug/L	93
6] Chloroform	6.676	83	420	68.31 ug/L	76
7] 1,1,1-Trichloroethane	6.943	97	402	66.42 ug/L	74
8] Carbon tetrachloride	7.211	117	352	61.40 ug/L #	56
9] Benzene	7.551	78	1238	74.13 ug/L #	1
10] 1,2-Dichloroethane	7.588	62	339	62.99 ug/L #	1
11] Trichloroethene	8.618	130	260	56.65 ug/L #	74
13] Toluene	10.644	91	1975	87.19 ug/L	100
14] 1,1,2-Trichloroethane	11.295	97	292	62.37 ug/L	74
15] Tetrachloroethene	11.495	166	428	67.06 ug/L	87
16] Chlorobenzene	12.829	112	1019	63.03 ug/L	61
17] 1,1,1,2-Tetrachloroethane	12.987	131	354	64.52 ug/L #	48
18] Ethylbenzene	13.035	91	1847	67.95 ug/L	96
19] m&p-Xylene	13.234	91	2935	139.90 ug/L	95
20] o-Xylene	13.845	91	1392	62.65 ug/L	88
21] 1,1,2,2-Tetrachloroethane	14.947	83	591	61.76 ug/L	97
22] 1,3,5-Trimethylbenzene	15.414	105	1864	74.14 ug/L	90
23] 1,2,4-Trimethylbenzene	15.955	105	1606	63.86 ug/L	100
25) 2-Fluorotoluene SCAN	11.042	109	57528	4746.65 ug/L	93
26) 1,1-Dichloroethene SCAN	3.129	61	93	30.75 ug/L #	11
27) trans-1,2-Dichloroethe...	4.295	61	103	29.25 ug/L #	1
28) 1,1-Dichloroethane SCAN	5.084	63	145	32.37 ug/L #	43
29) cis-1,2-Dichloroethene...	5.914	61	252	65.05 ug/L #	30
30) Chloroform SCAN	6.869	83	512	107.68 ug/L #	1
31) 1,1,1-Trichloroethane ...	6.954	97	215	50.80 ug/L #	32
32) Carbon tetrachloride SCAN	7.039	117	299	71.69 ug/L #	13
33) Benzene SCAN	7.538	78	12437	985.34 ug/L #	73
34) 1,2-Dichloroethane SCAN	7.575	62	406	94.32 ug/L #	39
35) Trichloroethene SCAN	8.639	130	477	154.43 ug/L #	55
36) Toluene-d8 SCAN	10.549	98	51245	4677.28 ug/L	86
37) Toluene SCAN	10.654	91	3670	262.23 ug/L #	91
38) 1,1,2-Trichloroethane ...	11.273	97	830	309.49 ug/L #	10
40) Chlorobenzene SCAN	12.835	112	458	53.95 ug/L #	1
42) Ethylbenzene SCAN	13.042	91	978	60.12 ug/L #	50
43) m&p-Xylene SCAN	13.225	91	650	28.79 ug/L #	1
44) o-Xylene SCAN	13.860	91	612	47.62 ug/L #	79
45) 1,1,2,2-Tetrachloroeth...	14.923	83	123	20.19 ug/L #	90
46) 1,3,5-Trimethylbenzene...	15.428	105	622	48.81 ug/L #	38
47) 1,2,4-Trimethylbenzene...	15.949	105	923	70.68 ug/L #	53

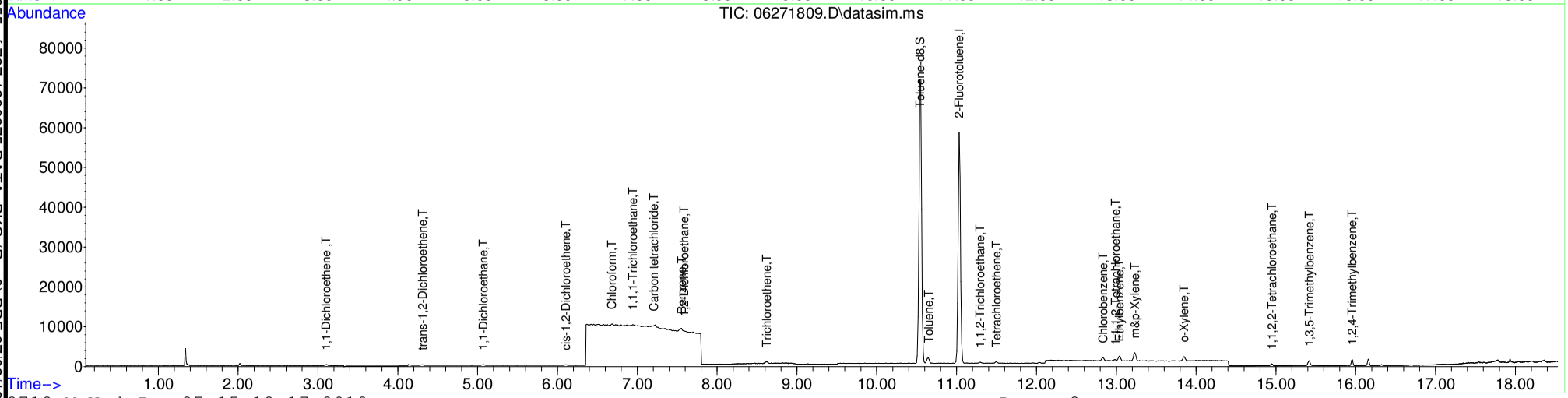
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271809.D
Acq On : 27 Jun 2018 12:41
InstName : AG5975C
Operator : TD
Sample : B18F097-MRL1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 15:17:48 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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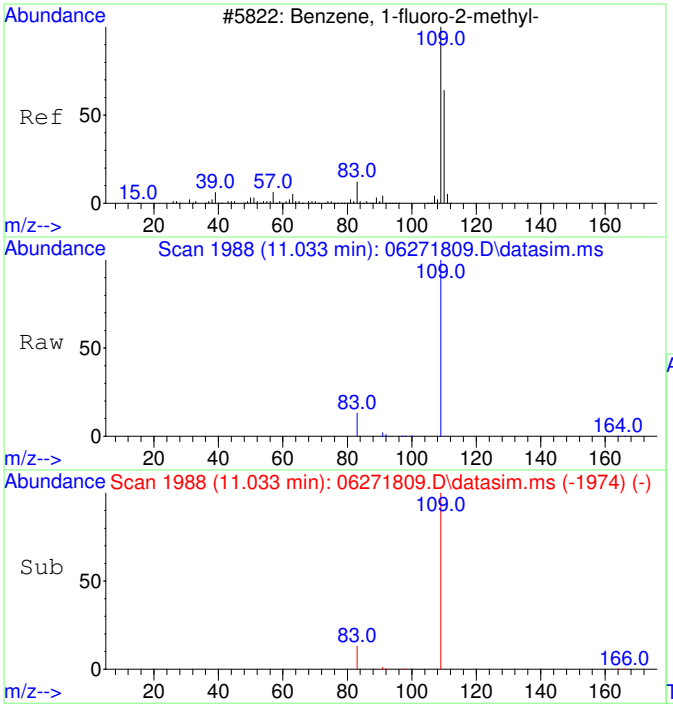
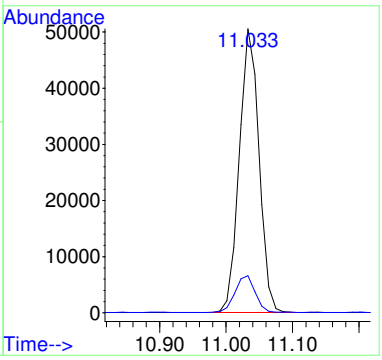
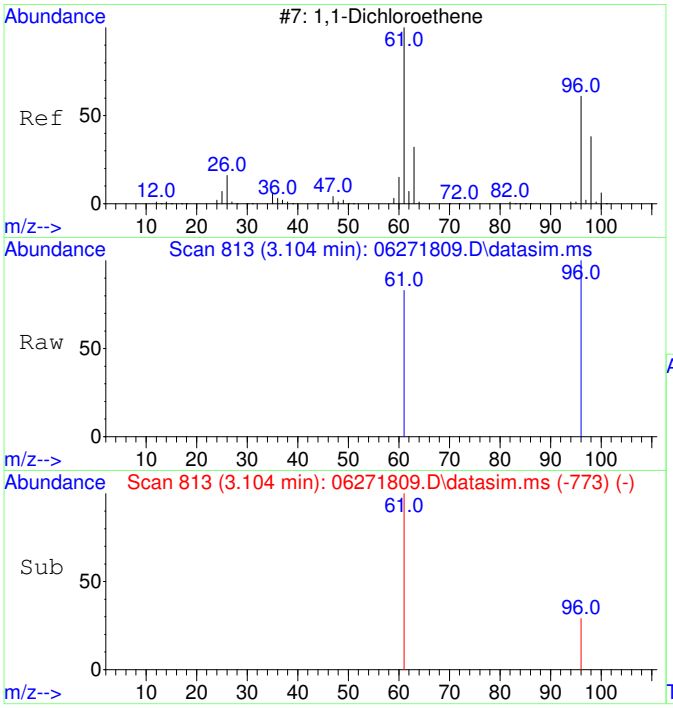


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:109 Resp: 104008

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	44.7

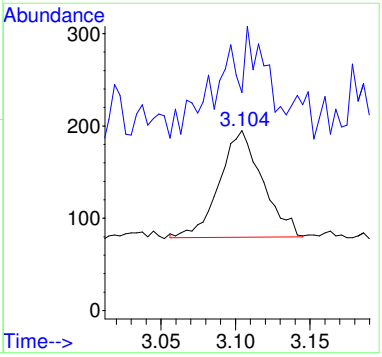


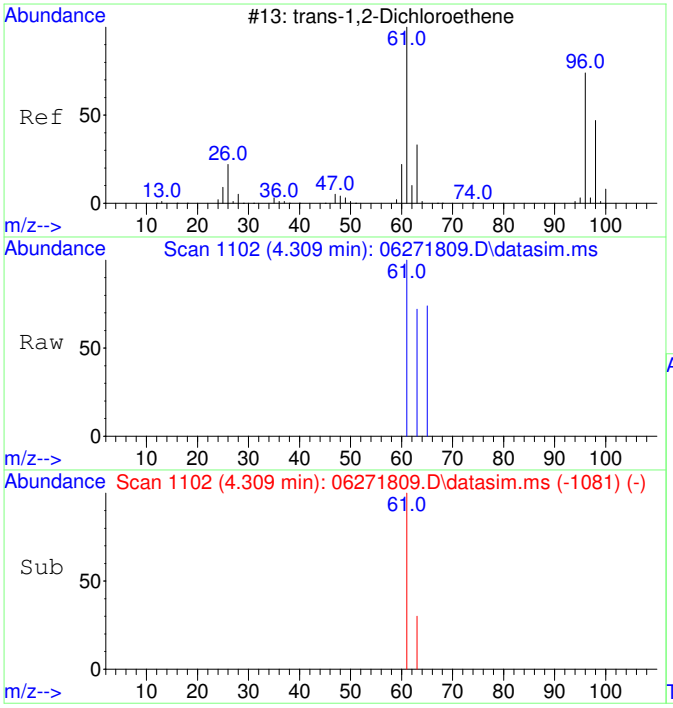


#2
1,1-Dichloroethene
Concen: 53.00 ug/L m
RT: 3.104 min Scan# 813
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 231

Ion	Ratio	Lower	Upper
61	100		
96	111.7	28.7	88.7#

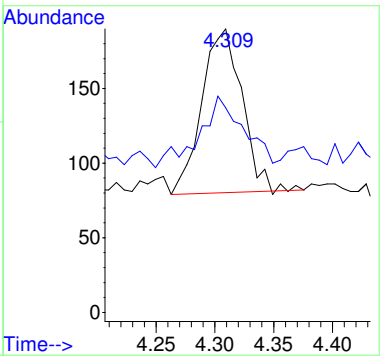


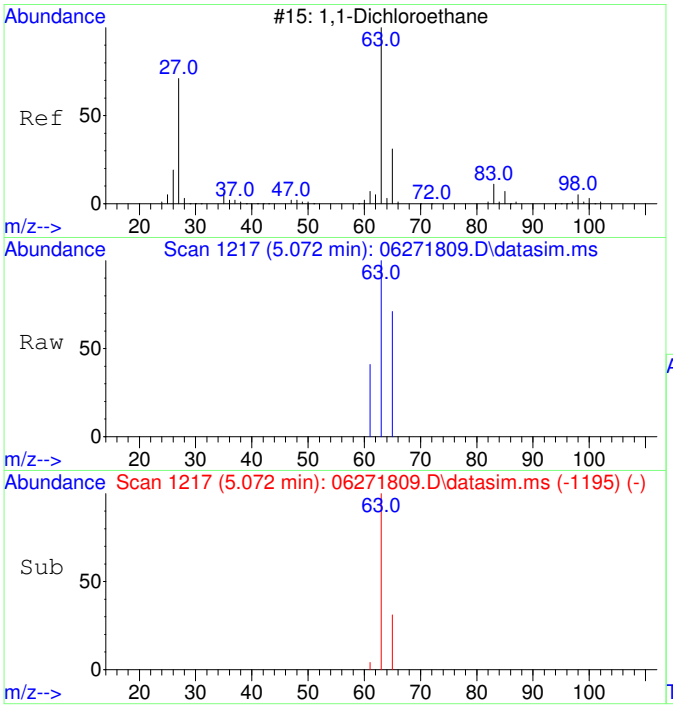


#3
trans-1,2-Dichloroethene
Concen: 56.12 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.014 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 261

Ion	Ratio	Lower	Upper
61	100		
63	42.9	2.0	62.0

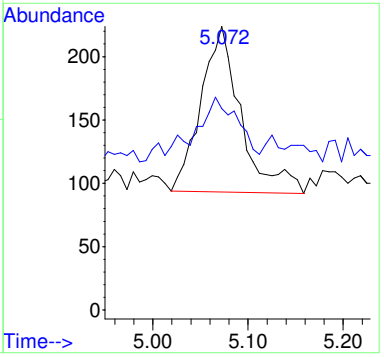


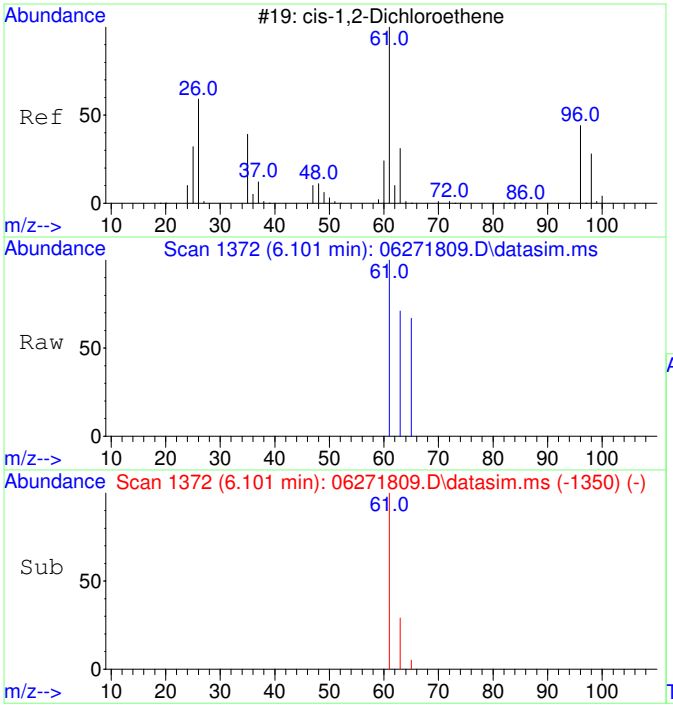


#4
1,1-Dichloroethane
Concen: 65.82 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.007 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 63 Resp: 381

Ion	Ratio	Lower	Upper
63	100		
65	41.5	1.5	61.5

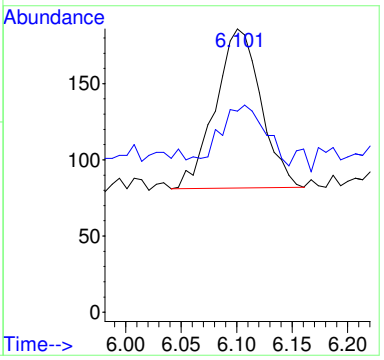


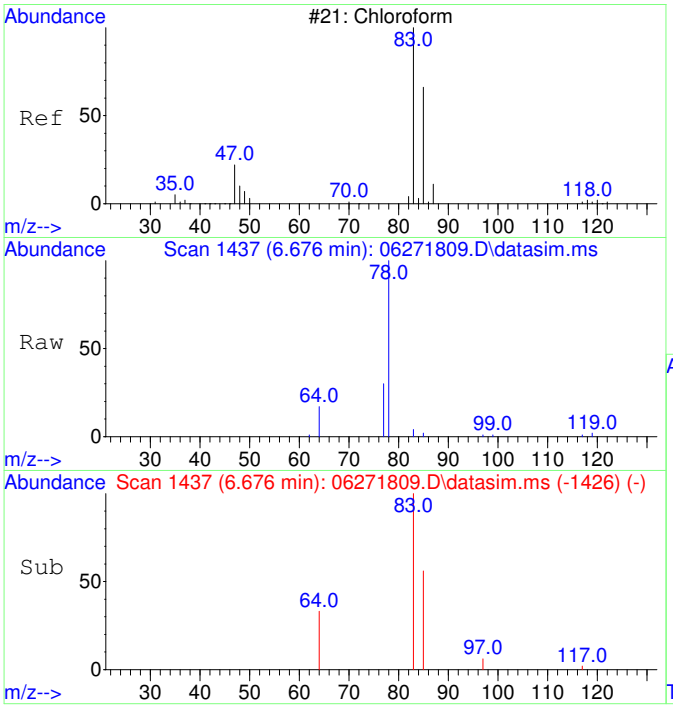


#5
cis-1,2-Dichloroethene
Concen: 52.18 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 298

Ion	Ratio	Lower	Upper
61	100		
63	36.2	2.2	62.2

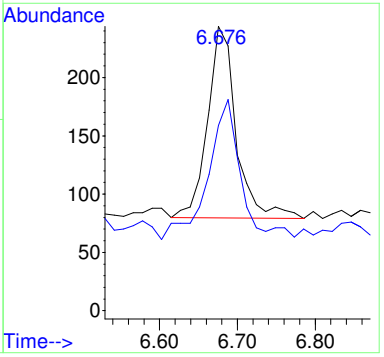


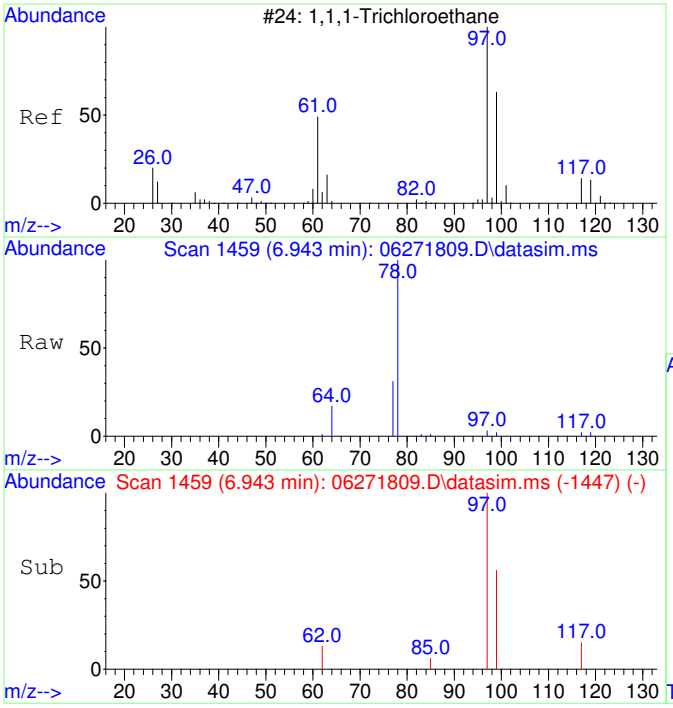


#6
Chloroform
Concen: 68.31 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 420

Ion	Ratio	Lower	Upper
83	100		
85	83.6	34.8	94.8

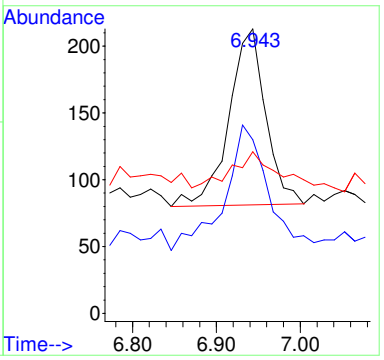


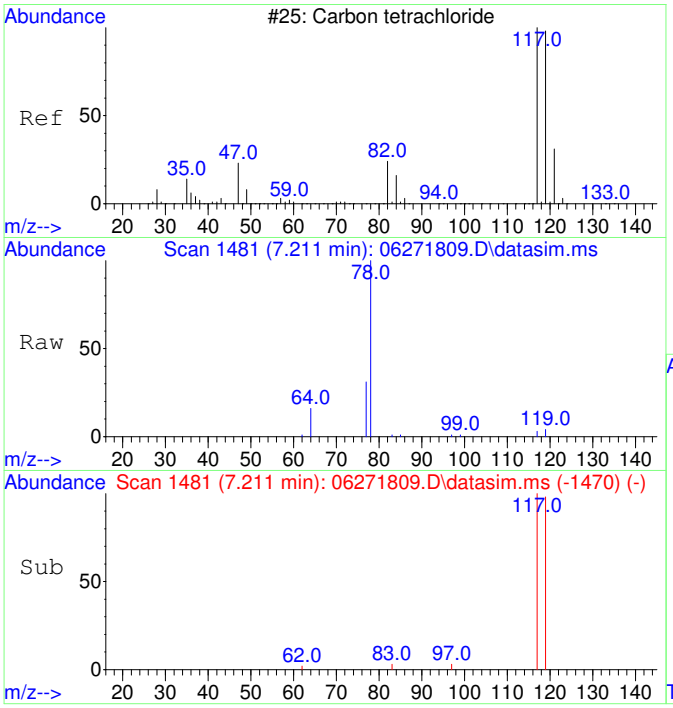


#7
1,1,1-Trichloroethane
Concen: 66.42 ug/L
RT: 6.943 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
99	84.3	34.6	94.6
117	24.4	0.0	42.9

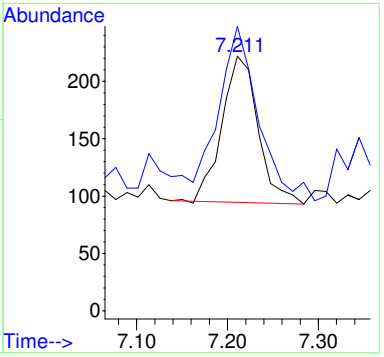


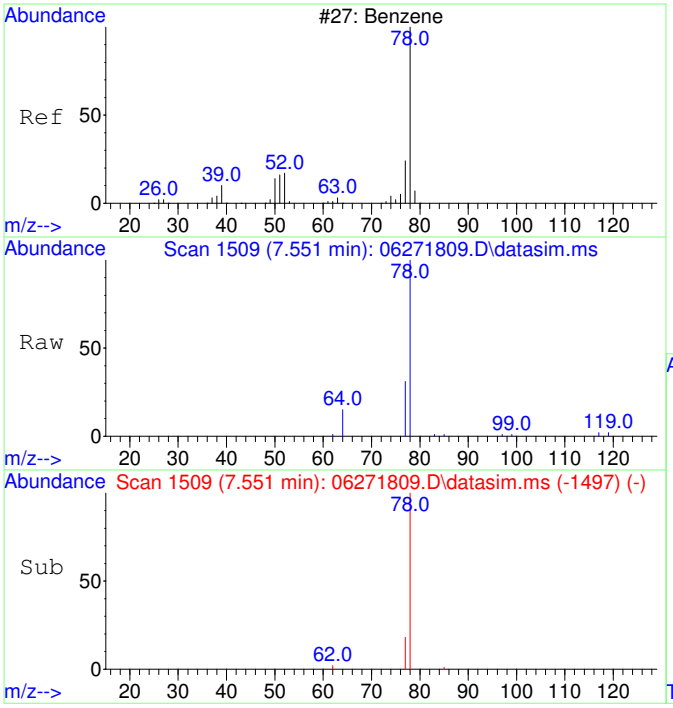


#8
Carbon tetrachloride
Concen: 61.40 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:117 Resp: 352

Ion	Ratio	Lower	Upper
117	100		
119	138.9	65.9	125.9#

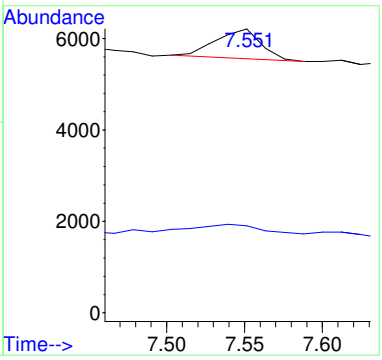


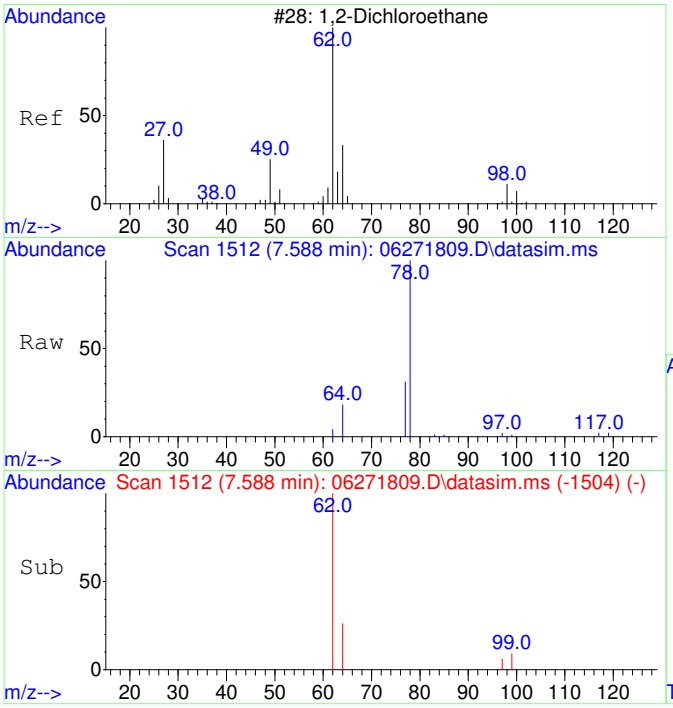


#9
Benzene
Concen: 74.13 ug/L
RT: 7.551 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 78 Resp: 1238

Ion	Ratio	Lower	Upper
78	100		
77	72.4	0.0	53.0#

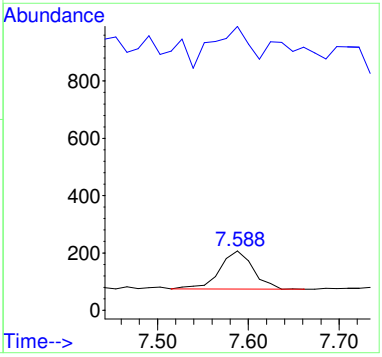


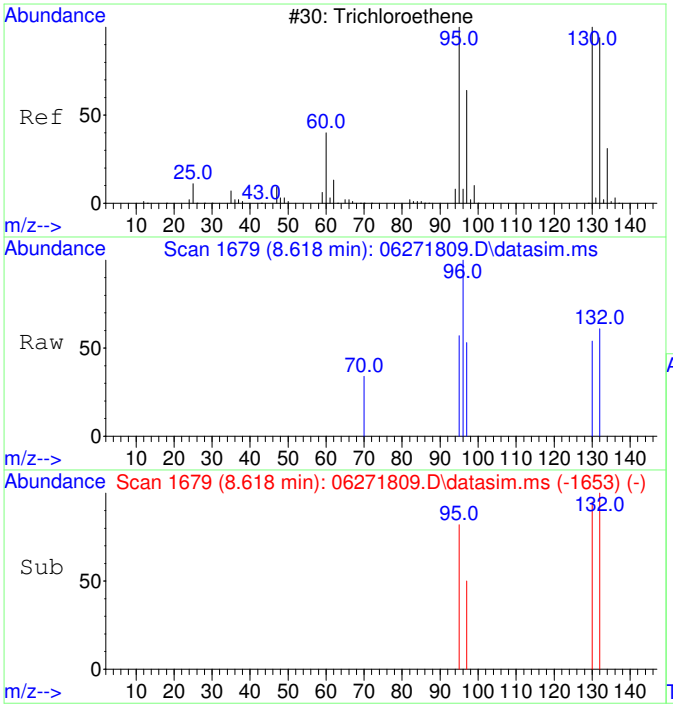


#10
1,2-Dichloroethane
Concen: 62.99 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 62 Resp: 339

Ion	Ratio	Lower	Upper
62	100		
64	117.4	2.3	62.3#

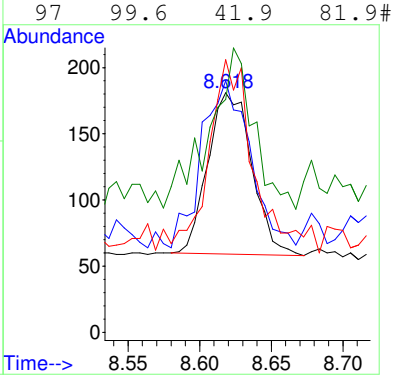


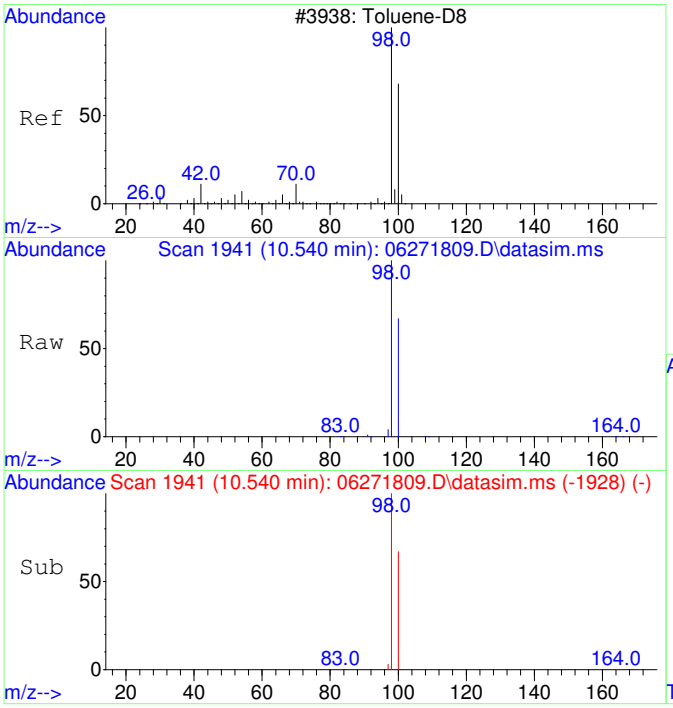


#11
Trichloroethene
Concen: 56.65 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.011 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:130 Resp: 260

Ion	Ratio	Lower	Upper
130	100		
95	116.2	66.0	126.0
132	114.2	78.8	118.8
97	99.6	41.9	81.9#

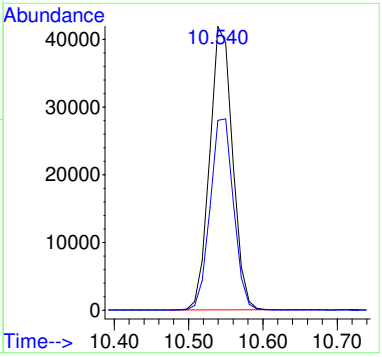


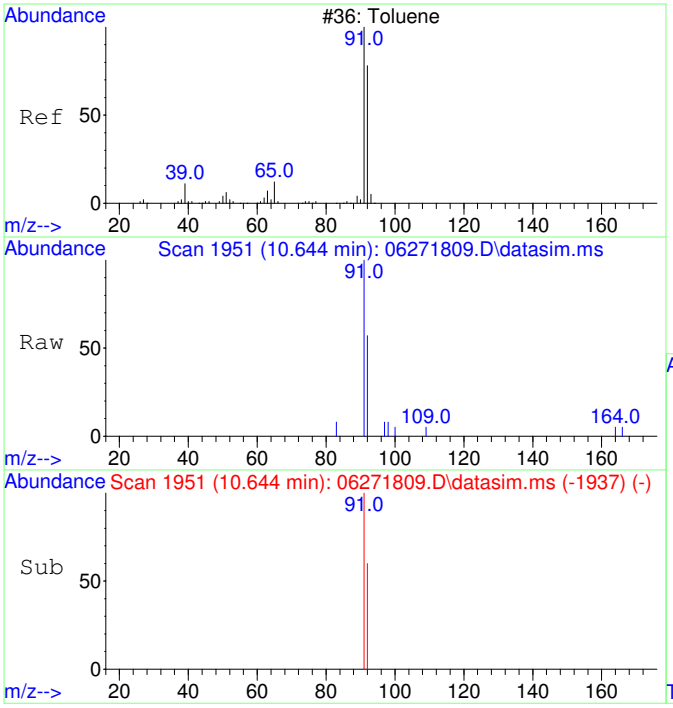


#12
Toluene-d8
Concen: 5295.18 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.011 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 98 Resp: 89457

Ion	Ratio	Lower	Upper
98	100		
100	68.8	38.7	98.7

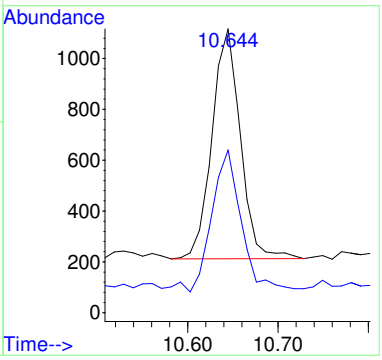


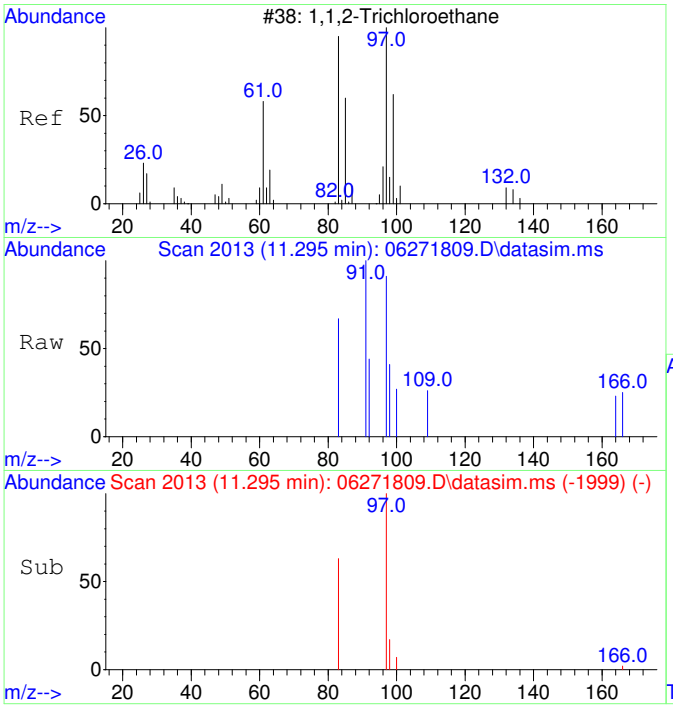


#13
Toluene
Concen: 87.19 ug/L
RT: 10.644 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1975

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.0	90.0

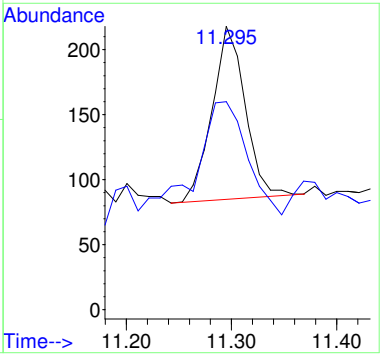


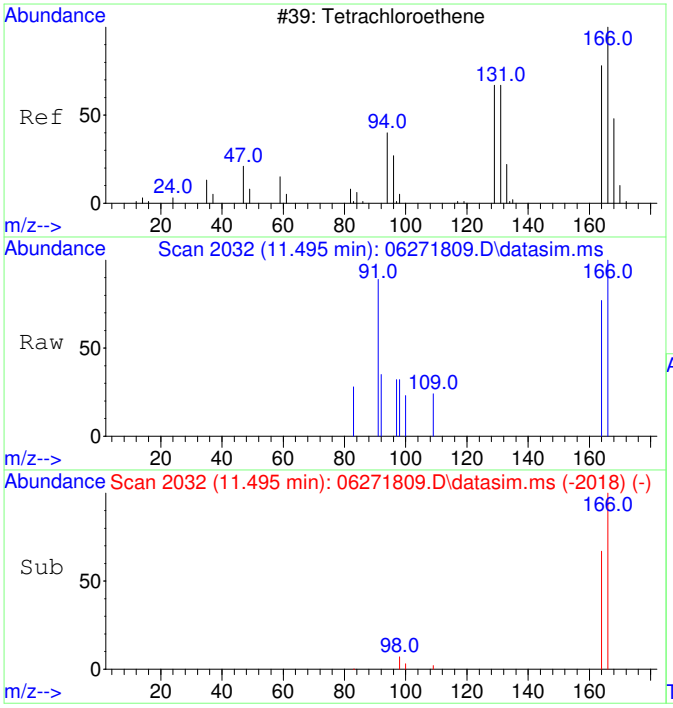


#14
1,1,2-Trichloroethane
Concen: 62.37 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 292

Ion	Ratio	Lower	Upper
97	100		
83	106.5	53.4	113.4

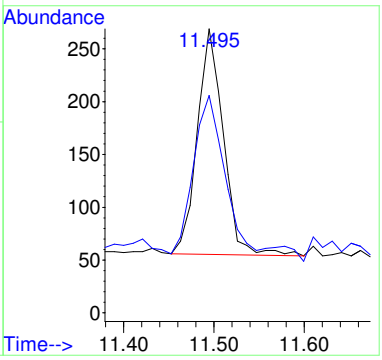


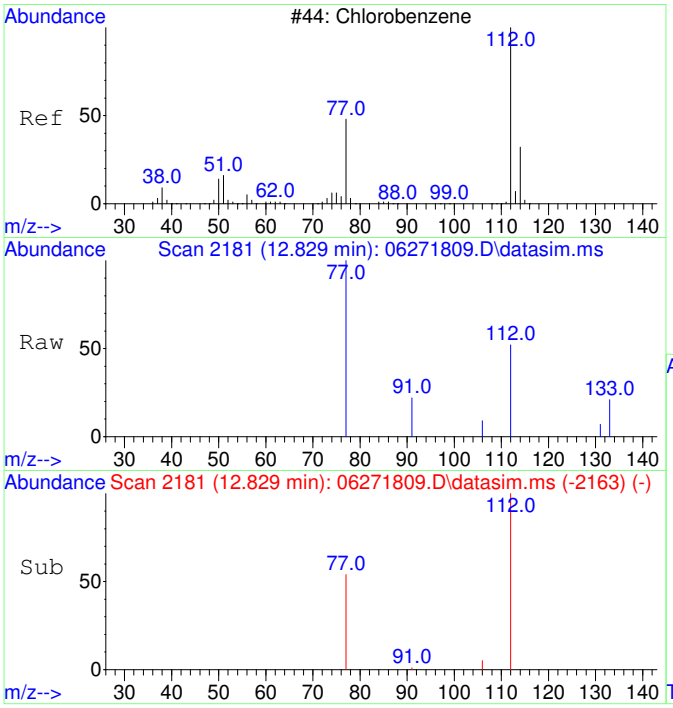


#15
Tetrachloroethene
Concen: 67.06 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:166 Resp: 428

Ion	Ratio	Lower	Upper
166	100		
164	89.3	47.8	107.8

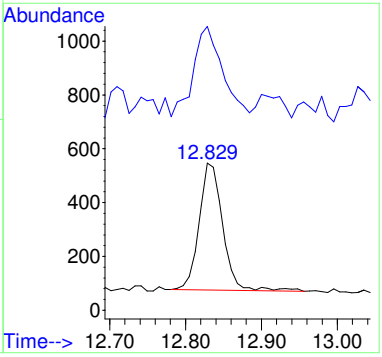


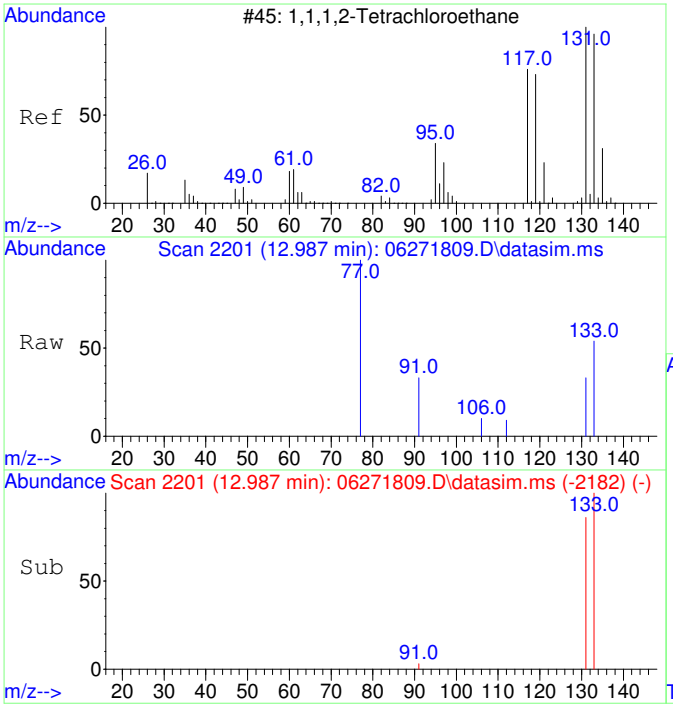


#16
Chlorobenzene
Concen: 63.03 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:112 Resp: 1019

Ion	Ratio	Lower	Upper
112	100		
77	87.4	28.1	88.1

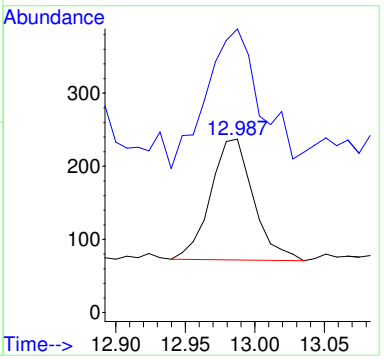


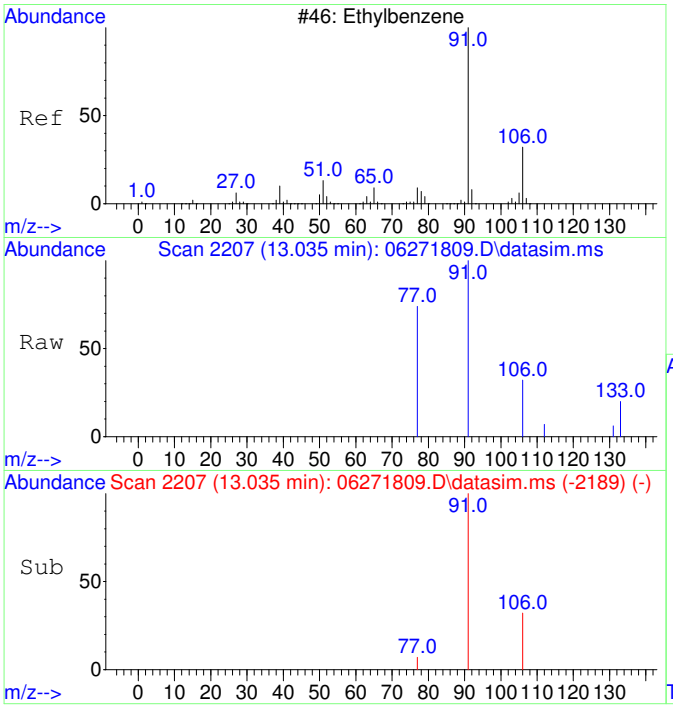


#17
1,1,1,2-Tetrachloroethane
Concen: 64.52 ug/L
RT: 12.987 min Scan# 2201
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:131 Resp: 354

Ion	Ratio	Lower	Upper
131	100		
133	147.5	66.2	126.2#

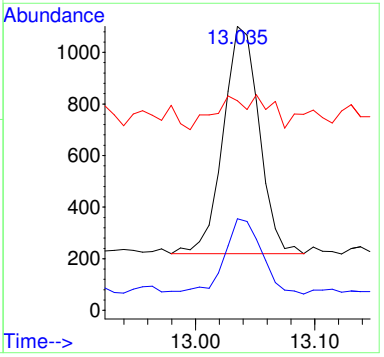


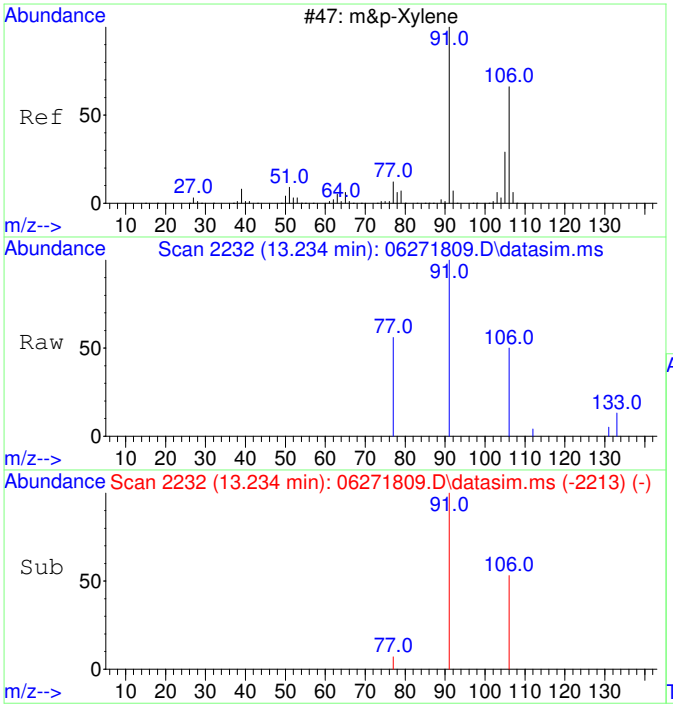


#18
Ethylbenzene
Concen: 67.95 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1847

Ion	Ratio	Lower	Upper
91	100		
106	34.2	2.8	62.8
77	12.9	0.0	38.6

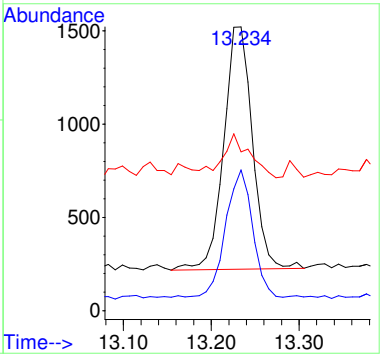


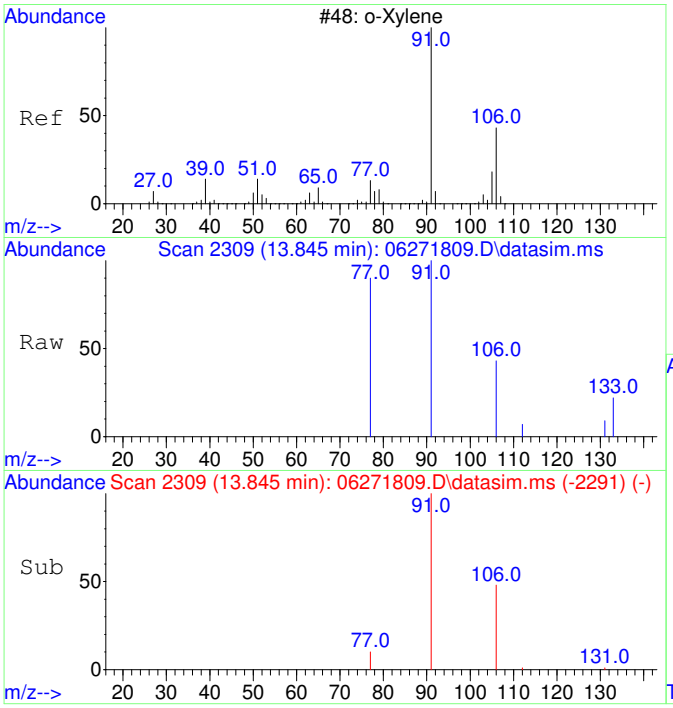


#19
m&p-Xylene
Concen: 139.90 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 2935

Ion	Ratio	Lower	Upper
91	100		
106	49.1	21.2	81.2
77	17.1	0.0	42.9

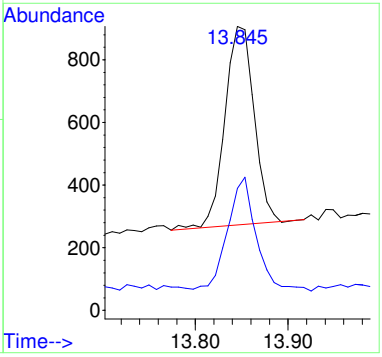


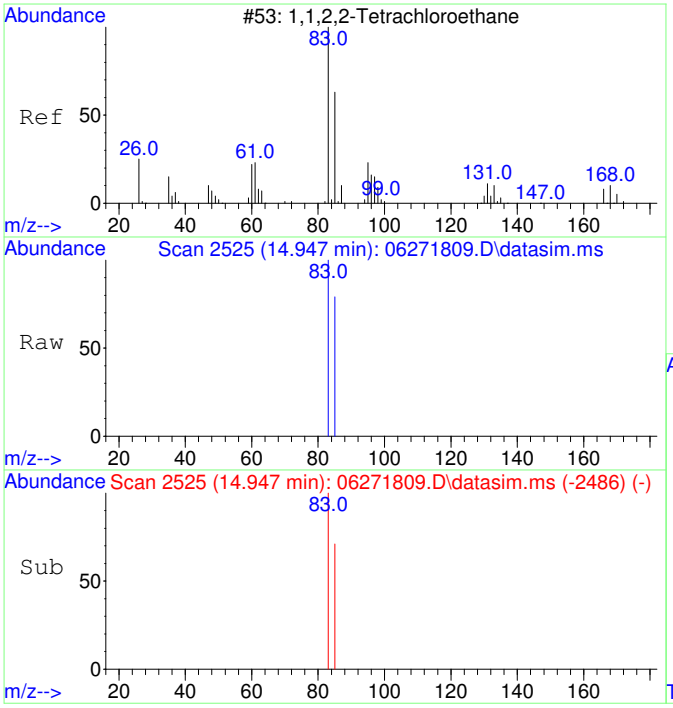


#20
o-Xylene
Concen: 62.65 ug/L
RT: 13.845 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 1392

Ion	Ratio	Lower	Upper
91	100		
106	56.2	18.3	78.3

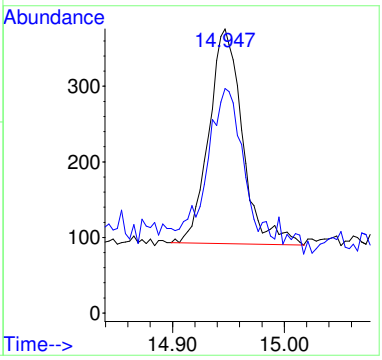


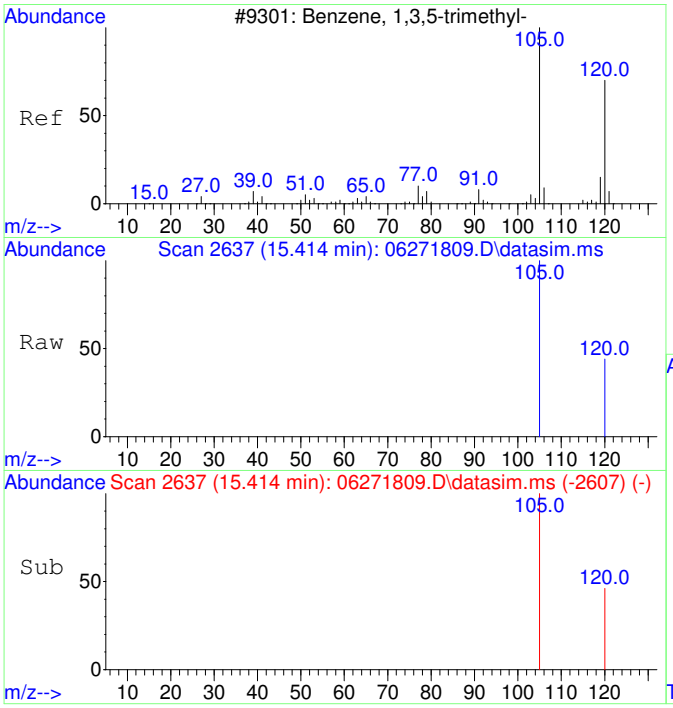


#21
1,1,2,2-Tetrachloroethane
Concen: 61.76 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 591

Ion	Ratio	Lower	Upper
83	100		
85	61.8	34.4	94.4

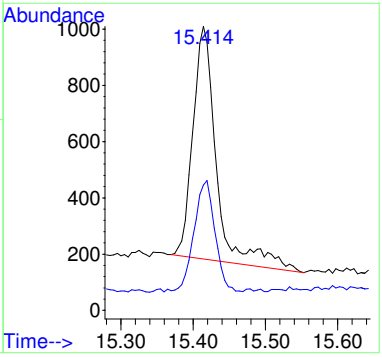


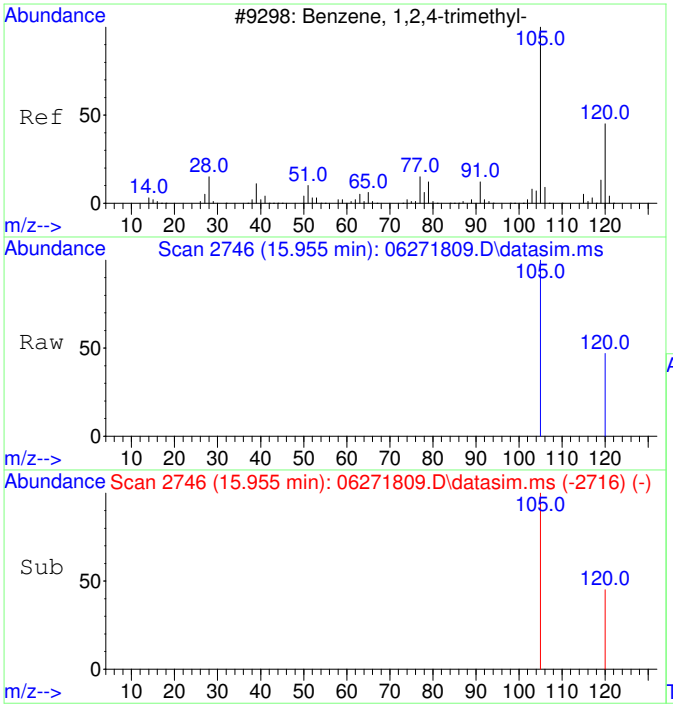


#22
1,3,5-Trimethylbenzene
Concen: 74.14 ug/L
RT: 15.414 min Scan# 2637
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 1864

Ion	Ratio	Lower	Upper
105	100		
120	42.5	19.1	79.1

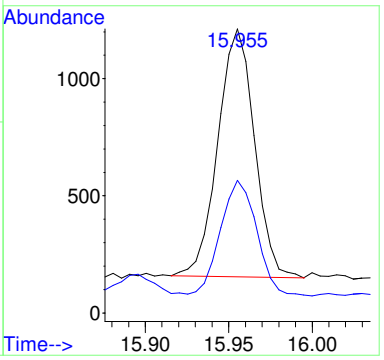


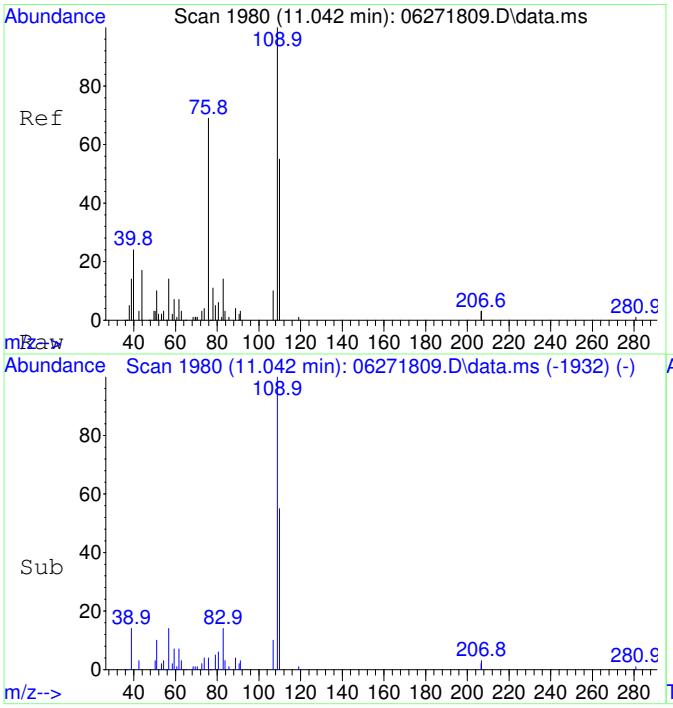


#23
1,2,4-Trimethylbenzene
Concen: 63.86 ug/L
RT: 15.955 min Scan# 2746
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 1606

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.5	75.5

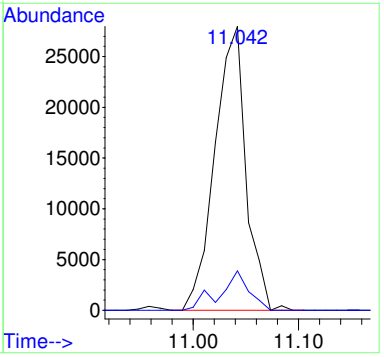


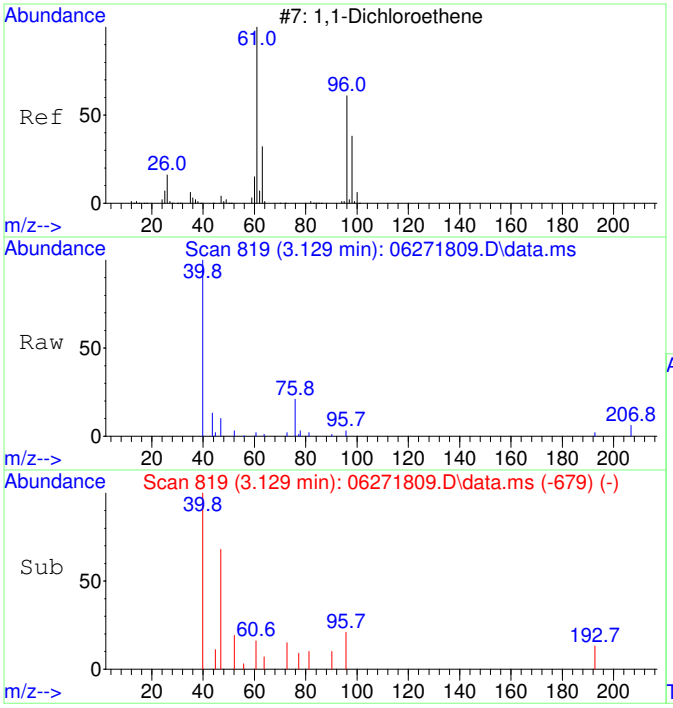


#25
2-Fluorotoluene SCAN
Concen: 4746.65 ug/L
RT: 11.042 min Scan# 1980
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:109 Resp: 57528

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	45.7

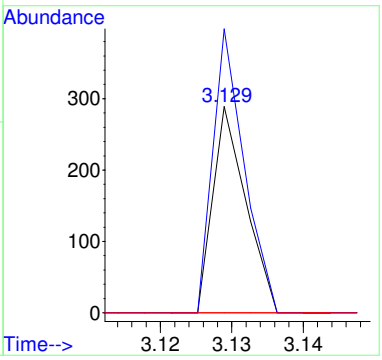


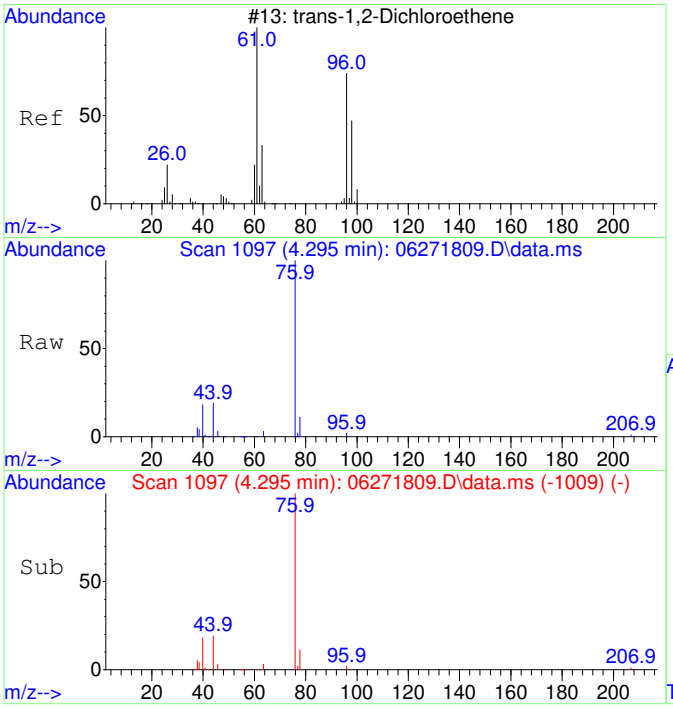


#26
1,1-Dichloroethene SCAN
Concen: 30.75 ug/L
RT: 3.129 min Scan# 819
Delta R.T. 0.018 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 93

Ion	Ratio	Lower	Upper
61	100		
96	130.1	23.8	83.8#
98	0.0	8.8	68.8#

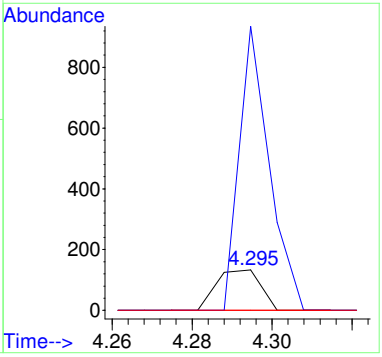


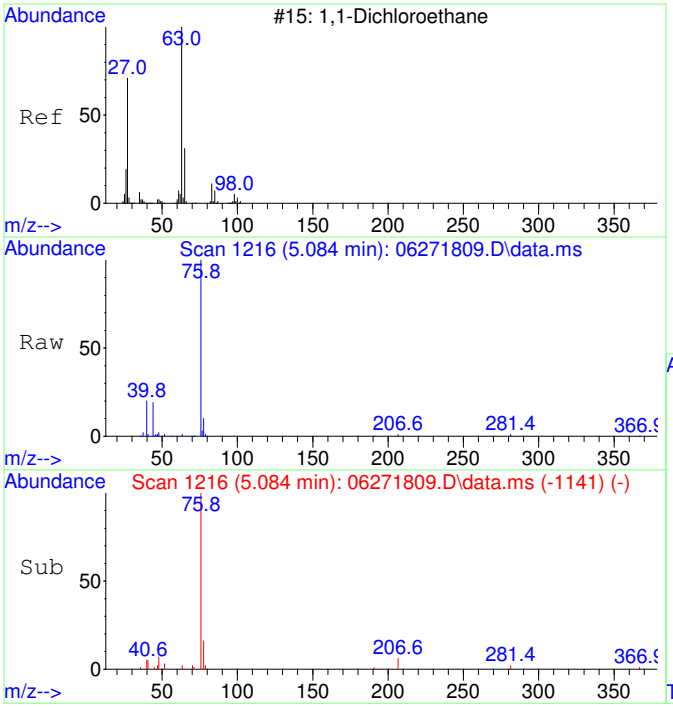


#27
trans-1,2-Dichloroethene SCAN
Concen: 29.25 ug/L
RT: 4.295 min Scan# 1097
Delta R.T. -0.040 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 103

Ion	Ratio	Lower	Upper
61	100		
96	473.8	37.9	97.9#
98	0.0	12.7	72.7#

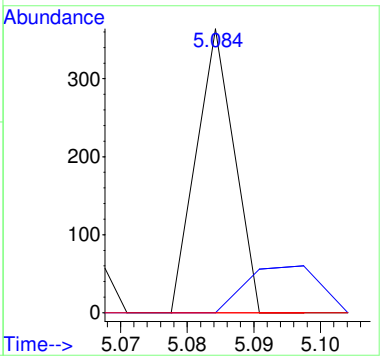


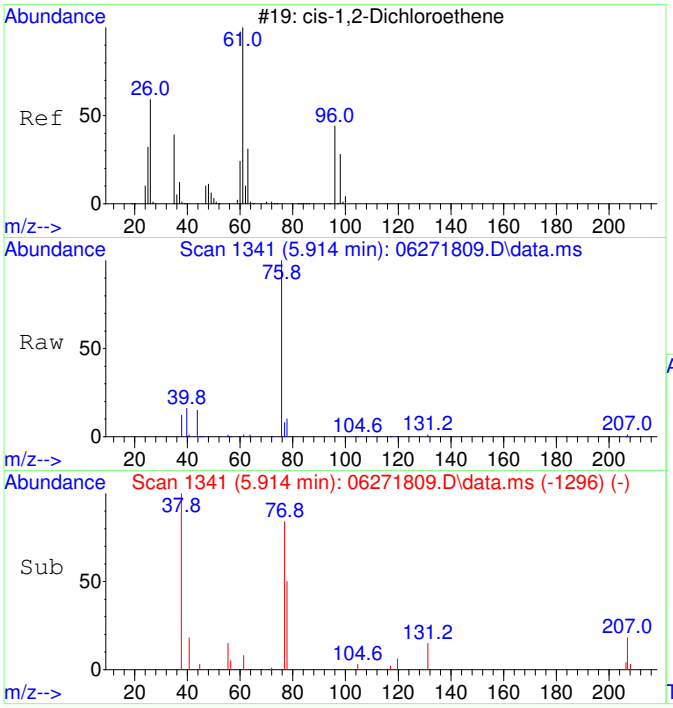


#28
1,1-Dichloroethane SCAN
Concen: 32.37 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 63 Resp: 145

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

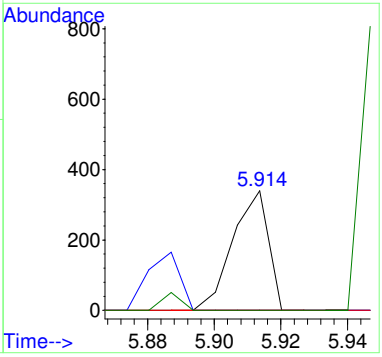


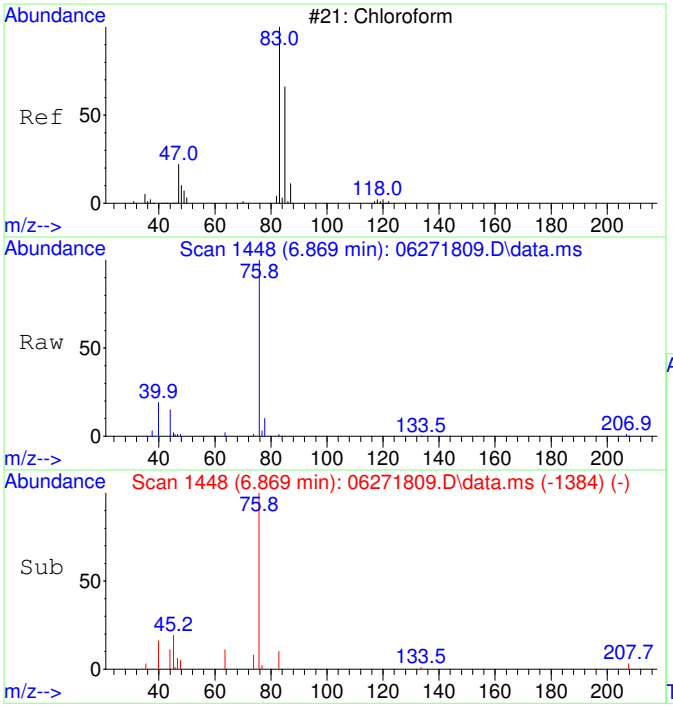


#29
cis-1,2-Dichloroethene SCAN
Concen: 65.05 ug/L
RT: 5.914 min Scan# 1341
Delta R.T. -0.199 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 61 Resp: 252

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#

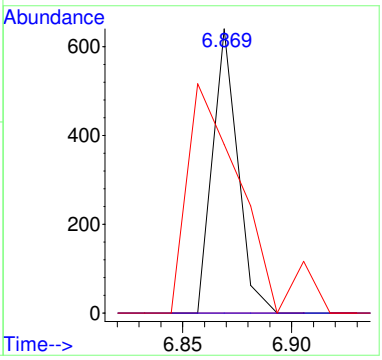


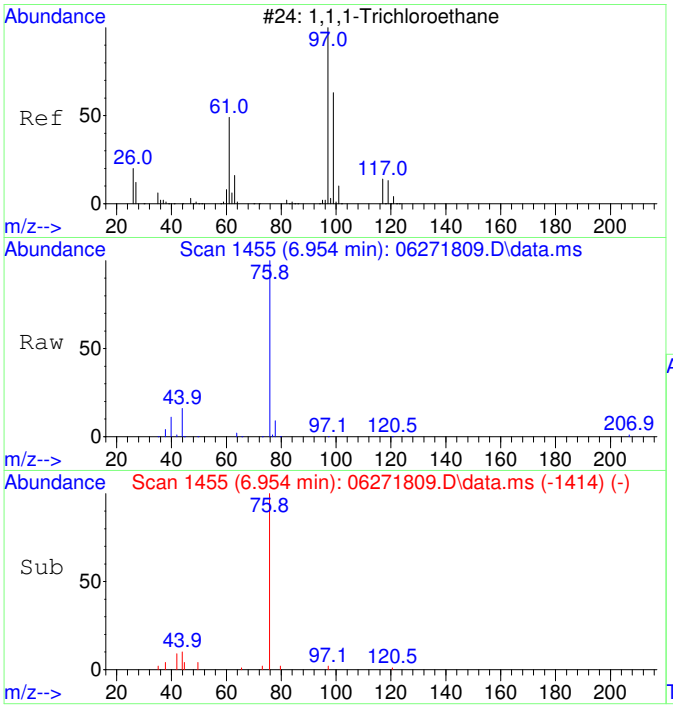


#30
Chloroform SCAN
Concen: 107.68 ug/L
RT: 6.869 min Scan# 1448
Delta R.T. 0.170 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 512

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	178.5	0.0	57.9#

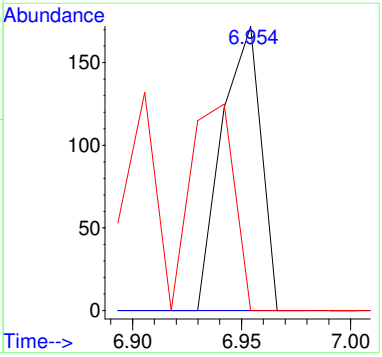


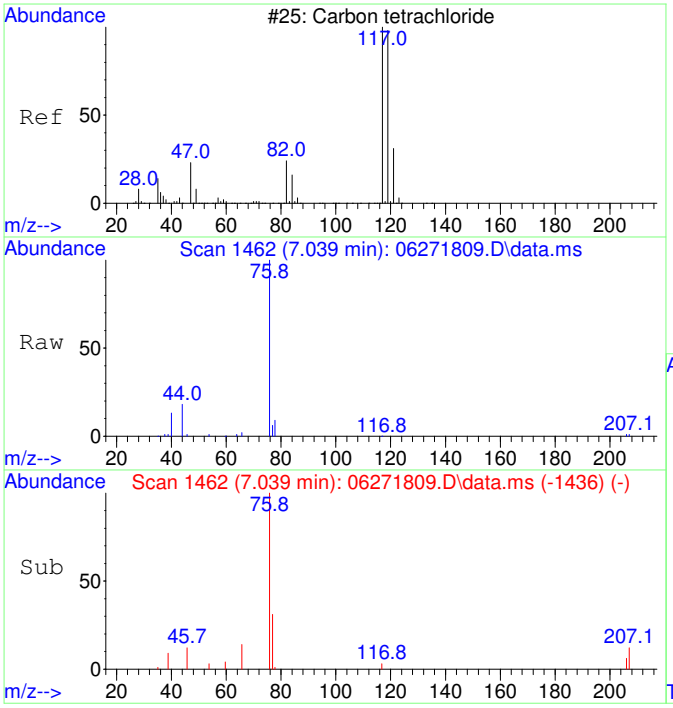


#31
1,1,1-Trichloroethane SCAN
Concen: 50.80 ug/L
RT: 6.954 min Scan# 1455
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 215

Ion	Ratio	Lower	Upper
97	100		
99	0.0	27.9	87.9#
61	81.4	15.1	75.1#

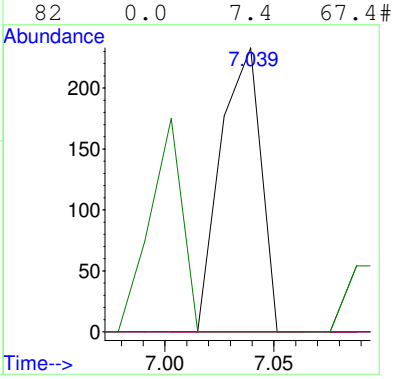


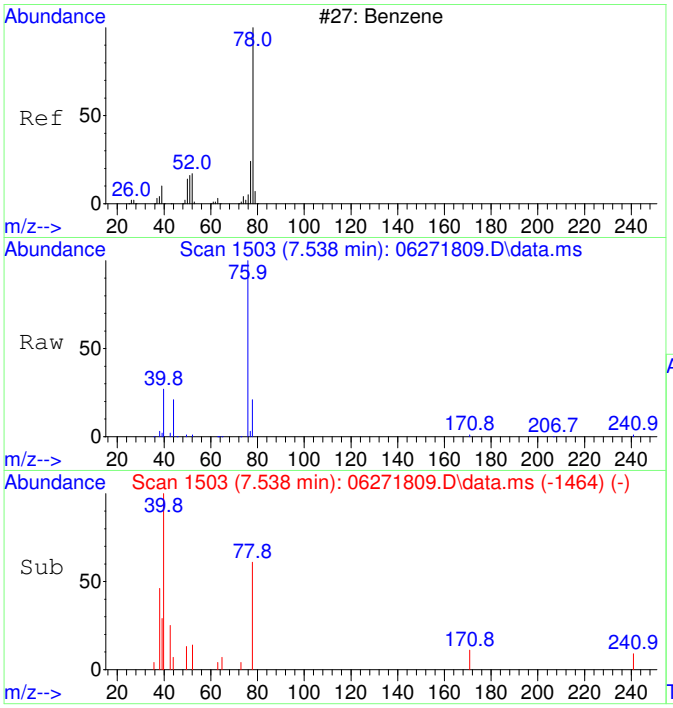


#32
Carbon tetrachloride SCAN
Concen: 71.69 ug/L
RT: 7.039 min Scan# 1462
Delta R.T. -0.183 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:117 Resp: 299

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#

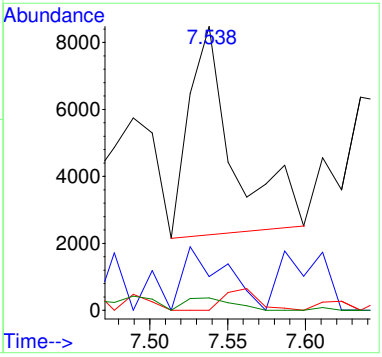


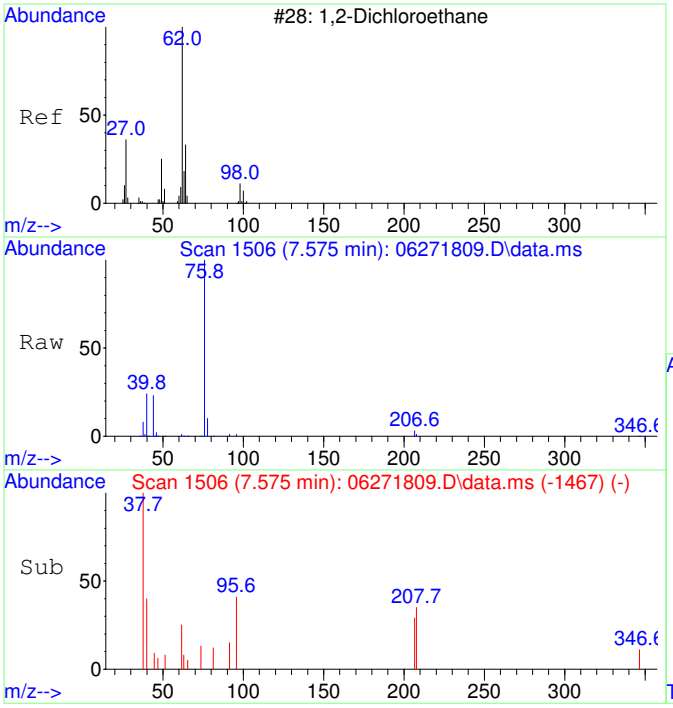


#33
Benzene SCAN
Concen: 985.34 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.025 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 78 Resp: 12437

Ion	Ratio	Lower	Upper
78	100		
77	28.7	3.0	63.0
51	0.0	0.0	56.4
52	6.3	0.0	48.0

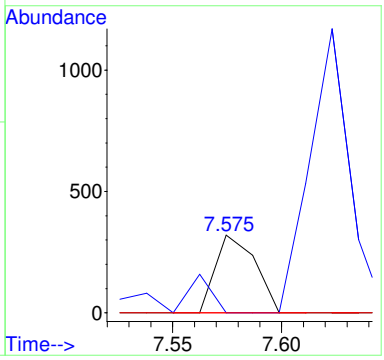


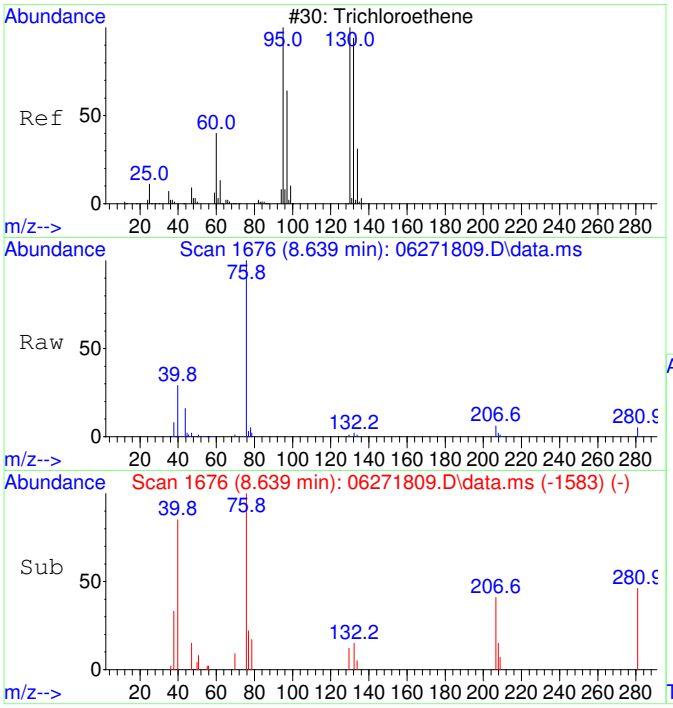


#34
1,2-Dichloroethane SCAN
Concen: 94.32 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. -0.025 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 62 Resp: 406

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

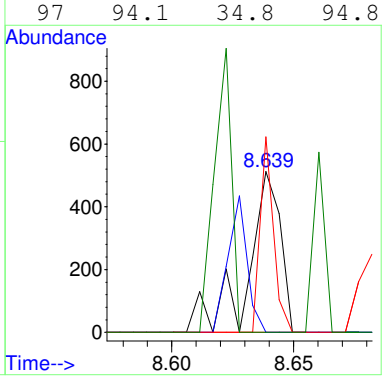


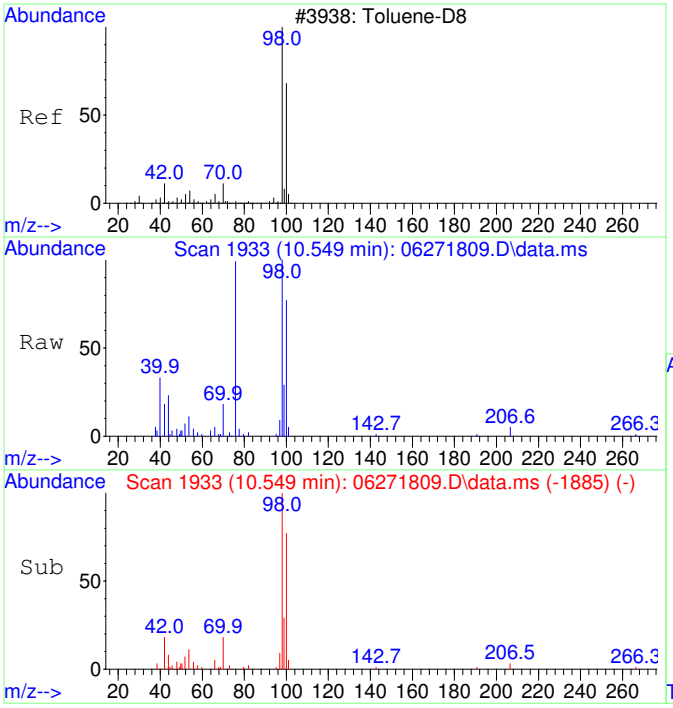


#35
Trichloroethene SCAN
Concen: 154.43 ug/L
RT: 8.639 min Scan# 1676
Delta R.T. 0.005 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:130 Resp: 477

Ion	Ratio	Lower	Upper
130	100		
95	50.1	70.5	130.5#
132	49.7	63.8	123.8#
97	94.1	34.8	94.8

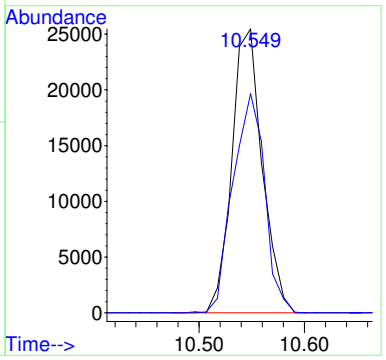


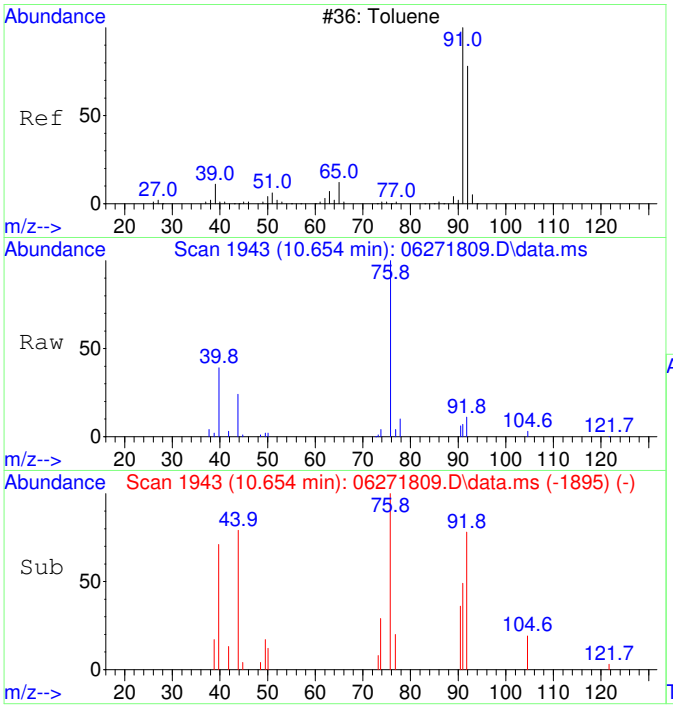


#36
Toluene-d8 SCAN
Concen: 4677.28 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 98 Resp: 51245

Ion	Ratio	Lower	Upper
98	100		
100	80.7	39.5	99.5

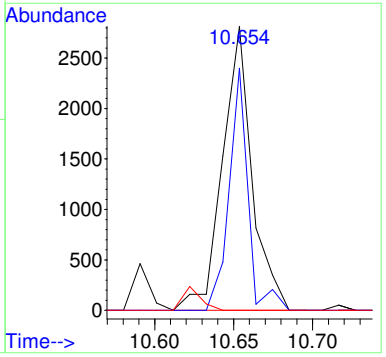


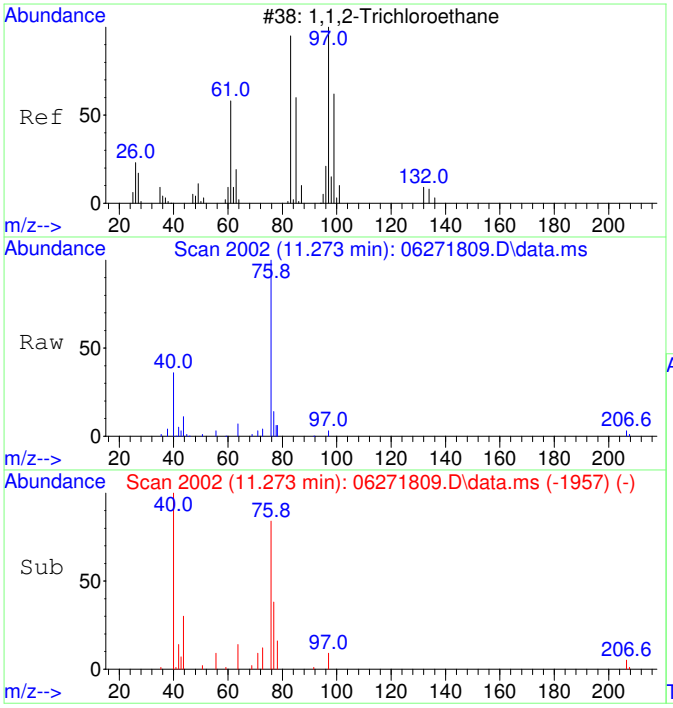


#37
Toluene SCAN
Concen: 262.23 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. -0.000 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 3670

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.6	86.6
65	0.0	0.0	42.3

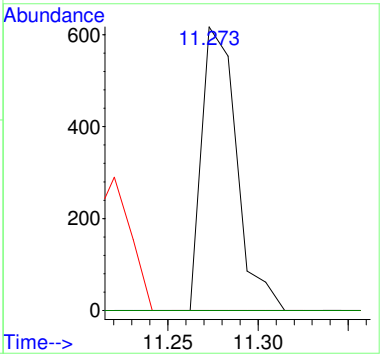


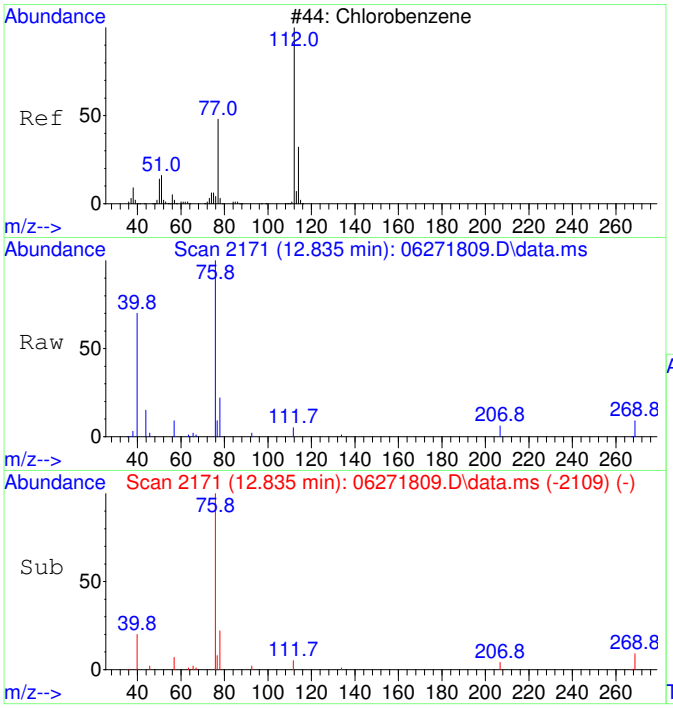


#38
1,1,2-Trichloroethane SCAN
Concen: 309.49 ug/L
RT: 11.273 min Scan# 2002
Delta R.T. -0.032 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 97 Resp: 830

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#

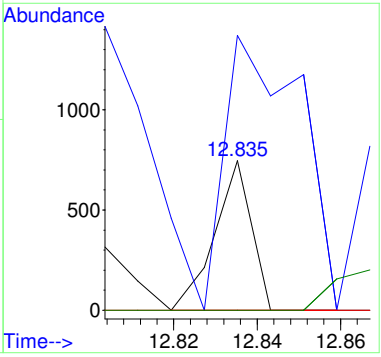


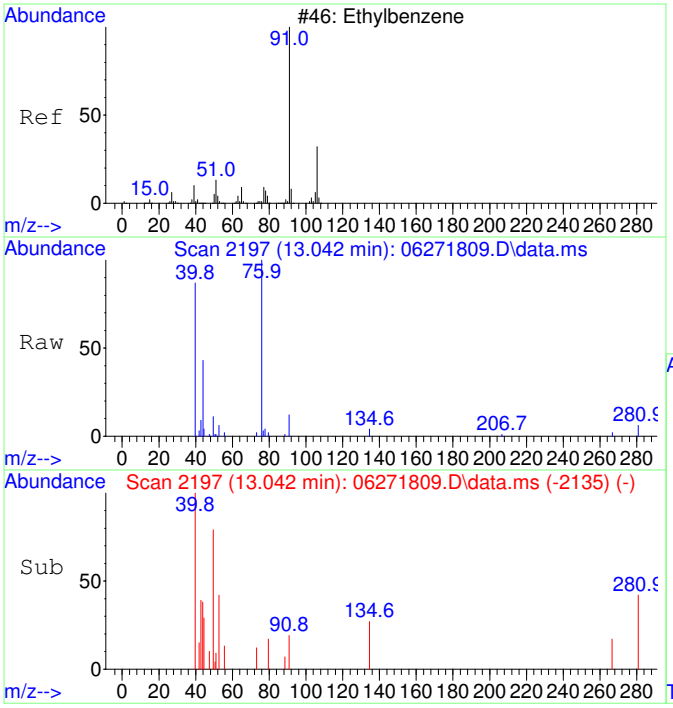


#40
Chlorobenzene SCAN
Concen: 53.95 ug/L
RT: 12.835 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:112 Resp: 458

Ion	Ratio	Lower	Upper
112	100		
77	376.2	28.4	88.4#
114	0.0	0.0	59.5
51	0.0	0.0	53.7

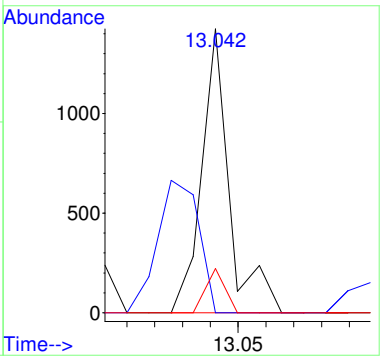


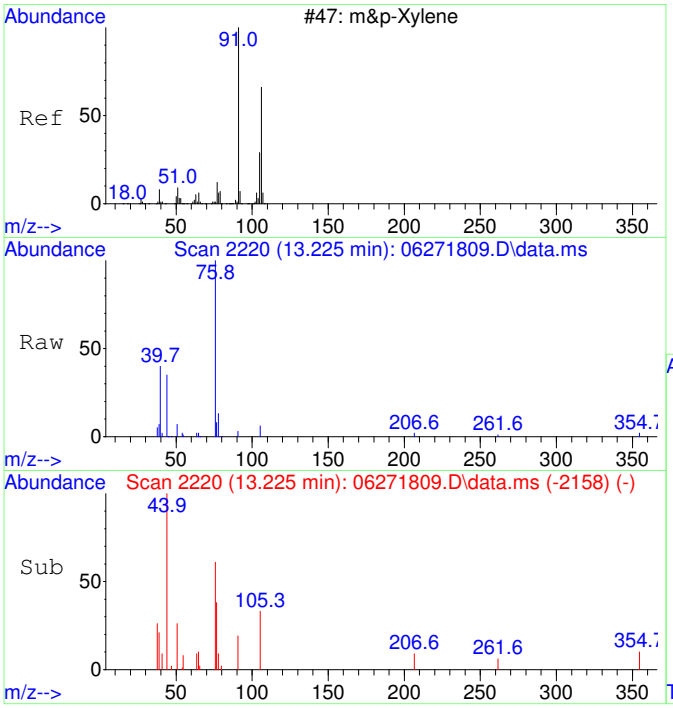


#42
Ethylbenzene SCAN
Concen: 60.12 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 978

Ion	Ratio	Lower	Upper
91	100		
106	70.0	3.2	63.2#
51	10.8	0.0	40.1

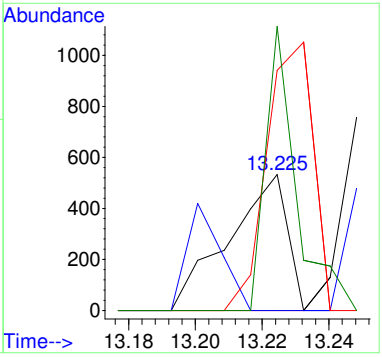


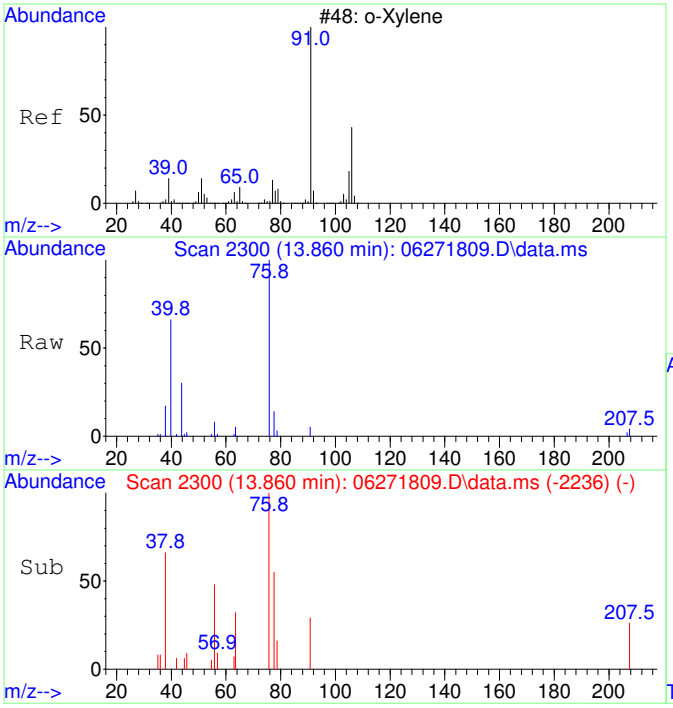


#43
m&p-Xylene SCAN
Concen: 28.79 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 650

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.1	80.1#
105	156.5	0.0	51.1#
51	108.9	0.0	40.7#

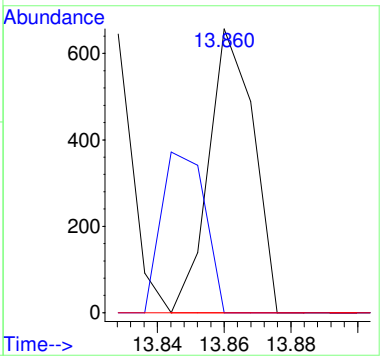


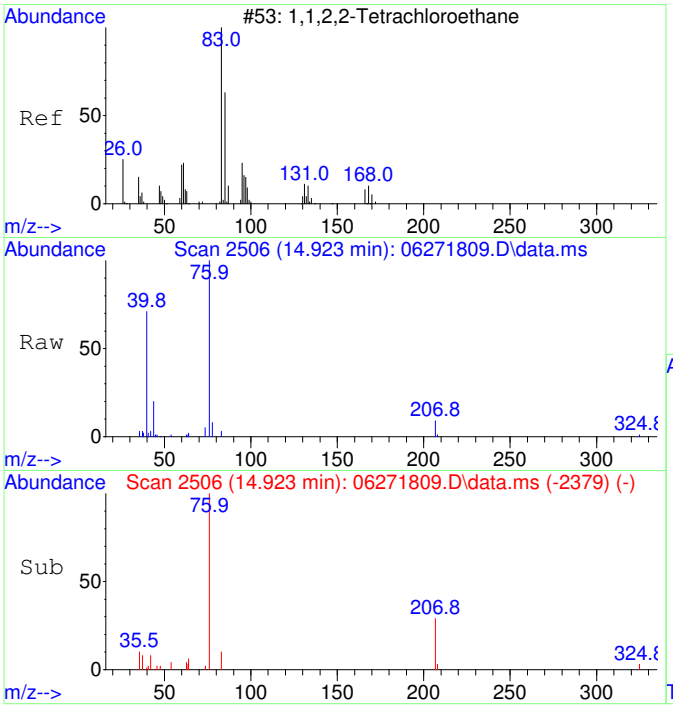


#44
o-Xylene SCAN
Concen: 47.62 ug/L
RT: 13.860 min Scan# 2300
Delta R.T. 0.008 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 91 Resp: 612

Ion	Ratio	Lower	Upper
91	100		
106	55.6	21.3	81.3
105	0.0	0.0	55.2

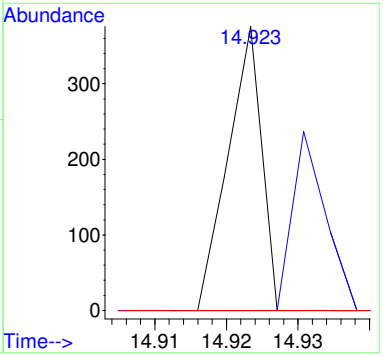


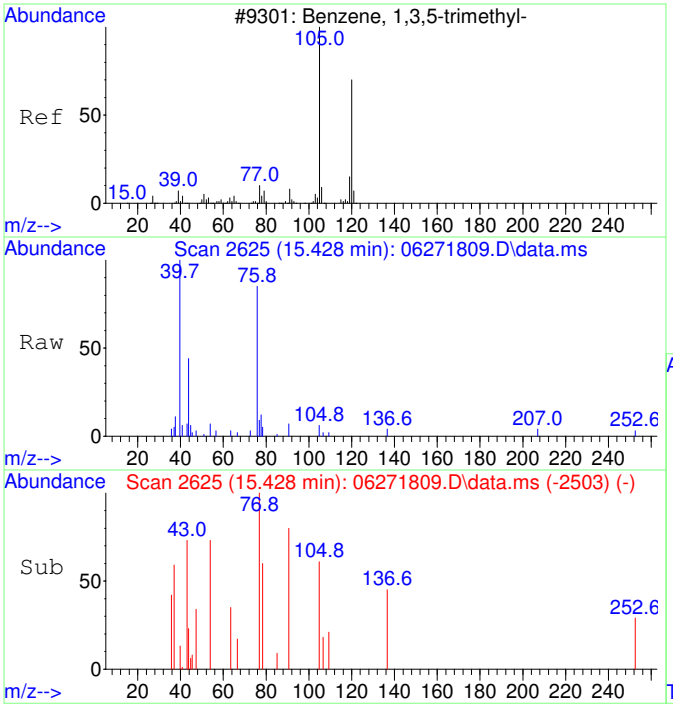


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 20.19 ug/L
RT: 14.923 min Scan# 2506
Delta R.T. -0.030 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion: 83 Resp: 123

Ion	Ratio	Lower	Upper
83	100		
85	61.8	31.6	91.6
95	0.0	0.0	49.0

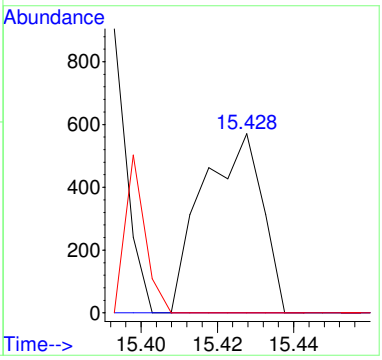


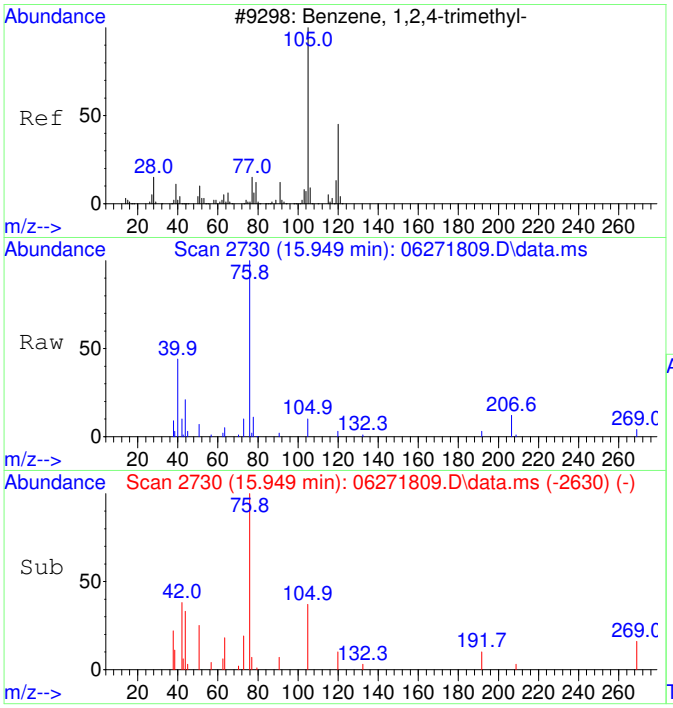


#46
1,3,5-Trimethylbenzene SCAN
Concen: 48.81 ug/L
RT: 15.428 min Scan# 2625
Delta R.T. 0.015 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 622

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

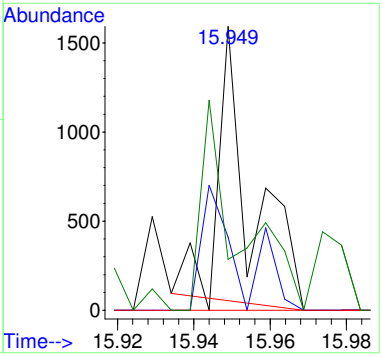




#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.68 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. -0.005 min
Lab File: 06271809.D
Acq: 27 Jun 2018 12:41

Tgt Ion:105 Resp: 923

Ion	Ratio	Lower	Upper
105	100		
120	35.9	15.4	75.4
119	0.0	0.0	41.7
77	85.0	0.0	42.0#



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory

SDG: 18170C

Client: California Site Cleanup Section 3

Project: MEW OU3 2018 Air and Sewer Gas Investigation

Instrument ID: AG5975CV

Calibration: 1806010

Sequence: S18F083

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S18F083-CRL1	Toluene-d8	150	153	102	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S18F083-CRL1
Misc Info: 1823102 0.15 mg/L
Date Acquired: 6/27/18 10:42
QLast Update: Thu Jun 14 17:09:21 2018
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
9)	Benzene	7.552	150.0	173.01	115%	60	140	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271804.D
Acq On : 27 Jun 2018 10:42
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL1
Misc : 1823102 0.15 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 11:01:23 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

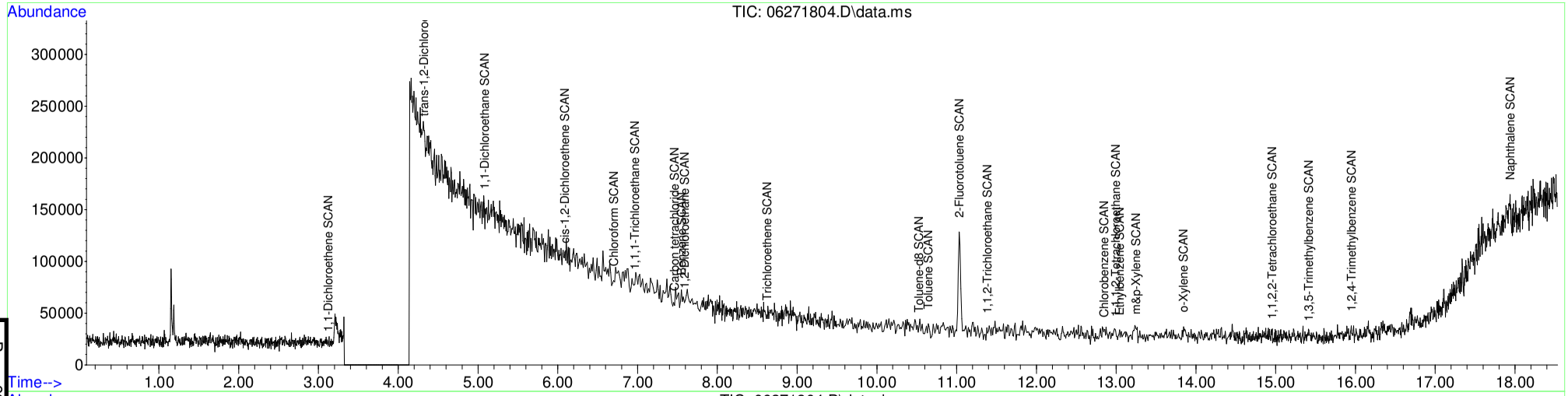
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	118835	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	2955	153.09 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	3.06%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.104	61	1489	298.99 ug/L	97
3] trans-1,2-Dichloroethene	4.303	61	926	174.26 ug/L	89
4] 1,1-Dichloroethane	5.072	63	1176	177.81 ug/L	94
5] cis-1,2-Dichloroethene	6.101	61	1048	160.62 ug/L	86
6] Chloroform	6.676	83	1180	167.96 ug/L	94
7] 1,1,1-Trichloroethane	6.944	97	1106	159.94 ug/L	95
8] Carbon tetrachloride	7.211	117	965	147.32 ug/L	85
9] Benzene	7.552	78	3301	173.01 ug/L	55
10] 1,2-Dichloroethane	7.588	62	940	152.87 ug/L #	33
11] Trichloroethene	8.624	130	818	155.99 ug/L	90
13] Toluene	10.645	91	4048	156.41 ug/L	97
14] 1,1,2-Trichloroethane	11.295	97	841	157.22 ug/L	86
15] Tetrachloroethene	11.495	166	1137	155.93 ug/L	93
16] Chlorobenzene	12.837	112	2879	155.86 ug/L	91
17] 1,1,1,2-Tetrachloroethane	12.980	131	1052	167.82 ug/L	99
18] Ethylbenzene	13.035	91	4916	158.29 ug/L	98
19] m&p-Xylene	13.234	91	7581	316.26 ug/L	99
20] o-Xylene	13.846	91	4053	159.65 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.947	83	1775	162.35 ug/L	99
22] 1,3,5-Trimethylbenzene	15.413	105	4543	158.16 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	4752	165.38 ug/L	99
24] Naphthalene	17.932	128	8218	174.28 ug/L	92
25) 2-Fluorotoluene SCAN	11.032	109	72864	5261.91 ug/L	94
26) 1,1-Dichloroethene SCAN	3.118	61	171	49.49 ug/L #	1
27) trans-1,2-Dichloroethe...	4.321	61	825	205.08 ug/L #	23
28) 1,1-Dichloroethane SCAN	5.078	63	280	54.71 ug/L #	1
29) cis-1,2-Dichloroethene...	6.080	61	140	31.63 ug/L #	1
30) Chloroform SCAN	6.699	83	683	125.72 ug/L #	24
31) 1,1,1-Trichloroethane ...	6.967	97	476	98.43 ug/L #	26
32) Carbon tetrachloride SCAN	7.465	117	193	40.50 ug/L #	13
33) Benzene SCAN	7.550	78	3833	265.78 ug/L #	58
34) 1,2-Dichloroethane SCAN	7.587	62	955	194.18 ug/L #	39
35) Trichloroethene SCAN	8.623	130	303	85.86 ug/L #	53
36) Toluene-d8 SCAN	10.528	98	1848	147.63 ug/L #	15
37) Toluene SCAN	10.643	91	3976	248.65 ug/L #	31
38) 1,1,2-Trichloroethane ...	11.378	97	310	101.17 ug/L #	10
40) Chlorobenzene SCAN	12.843	112	921	94.95 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.994	131	202	58.34 ug/L #	1
42) Ethylbenzene SCAN	13.042	91	4545	244.52 ug/L #	49
43) m&p-Xylene SCAN	13.249	91	5882	227.98 ug/L #	47
44) o-Xylene SCAN	13.844	91	3289	223.98 ug/L	88
45) 1,1,2,2-Tetrachloroeth...	14.953	83	1620	232.77 ug/L #	67
46) 1,3,5-Trimethylbenzene...	15.407	105	1237	84.96 ug/L #	81
47) 1,2,4-Trimethylbenzene...	15.948	105	1950	130.68 ug/L #	42
48) Naphthalene SCAN	17.938	128	6311	296.43 ug/L	86

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271804.D
Acq On : 27 Jun 2018 10:42
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL1
Misc : 1823102 0.15 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 11:01:23 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration



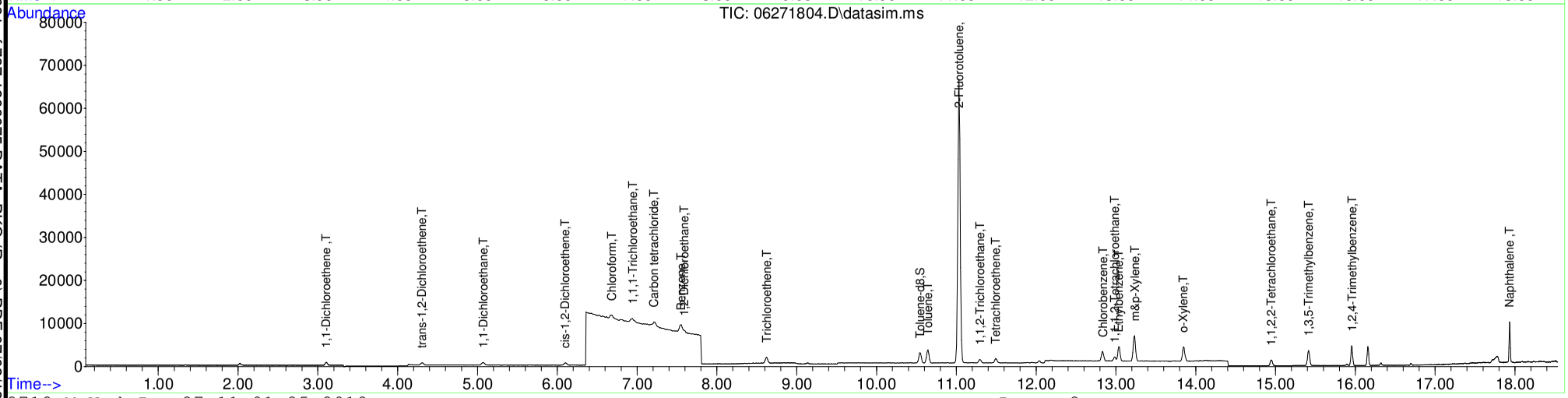


Table of Contents

CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 18170C
Client: California Site Cleanup Section 3
Project: MEW OU3 2018 Air and Sewer Gas Investigation
Instrument ID: AG5975CV
Calibration: 1806010
Sequence: S18F083

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S18F083-CRL2	1,1-Dichloroethene	50.0	45.0	90	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	50.0	100	ug/L	60 - 140
	1,1-Dichloroethane	50.0	51.4	103	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	49.6	99	ug/L	60 - 140
	Chloroform	50.0	63.1	126	ug/L	60 - 140
	Trichloroethene	50.0	53.8	108	ug/L	60 - 140
	Tetrachloroethene	50.0	54.9	110	ug/L	60 - 140
	Toluene-d8	50.0	53.1	106	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S18F083-CRL2
Misc Info: 1823103 0.05 mg/L
Date Acquired: 6/27/18 11:06
QLast Update: Thu Jun 14 17:09:21 2018
Operator: TD

#	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	45.04	90%	60	140	pass
3)	trans-1,2-Dichloroethene	4.323	50.0	49.97	100%	60	140	pass
4)	1,1-Dichloroethane	5.079	50.0	51.35	103%	60	140	pass
5)	cis-1,2-Dichloroethene	6.108	50.0	49.59	99%	60	140	pass
6)	Chloroform	6.688	50.0	63.12	126%	60	140	pass
7)	1,1,1-Trichloroethane	6.944	50.0	53.13	106%	60	140	pass
8)	Carbon tetrachloride	7.223	50.0	51.66	103%	60	140	pass
10)	1,2-Dichloroethane	7.588	50.0	47.16	94%	60	140	pass
11)	Trichloroethene	8.629	50.0	53.83	108%	60	140	pass
12)	Toluene-d8	10.550	50.0	53.09	106%	60	140	pass
13)	Toluene	10.645	50.0	59.92	120%	60	140	pass
14)	1,1,2-Trichloroethane	11.295	50.0	52.29	105%	60	140	pass
15)	Tetrachloroethene	11.495	50.0	54.89	110%	60	140	pass
16)	Chlorobenzene	12.837	50.0	52.69	105%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.988	50.0	54.80	110%	60	140	pass
18)	Ethylbenzene	13.043	50.0	54.00	108%	60	140	pass
19)	m&p-Xylene	13.234	100.0	105.34	105%	60	140	pass
20)	o-Xylene	13.854	50.0	55.47	111%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.951	50.0	54.64	109%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.414	50.0	53.76	108%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.955	50.0	56.28	113%	60	140	pass
24)	Naphthalene	17.936	50.0	60.06	120%	60	140	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271805.D
Acq On : 27 Jun 2018 11:06
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 11:25:05 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

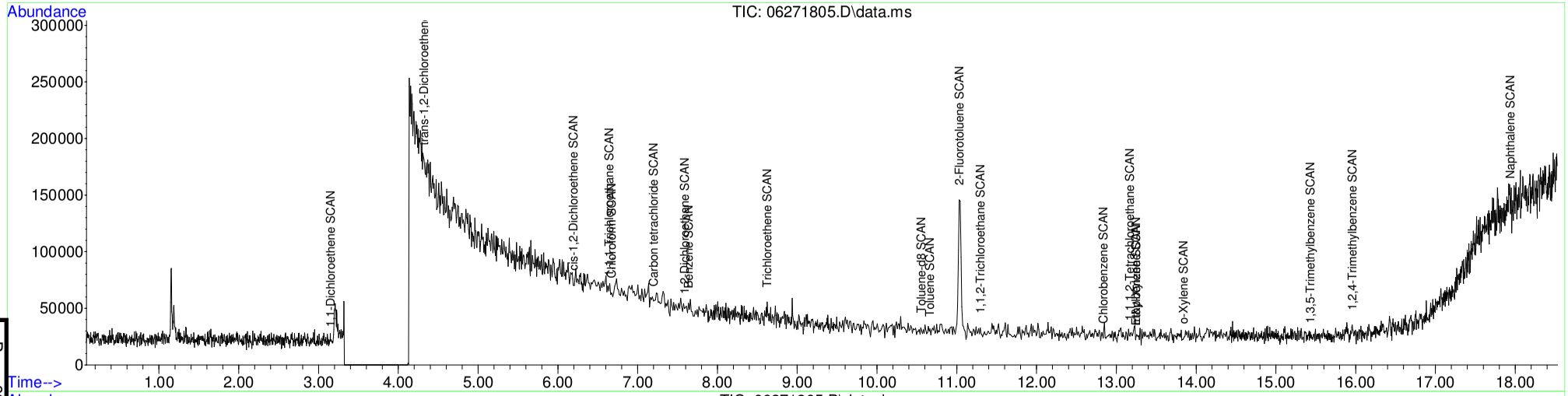
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	184385	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	1590	53.09	ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 1.06%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.101	61	1005	130.06	ug/L	62
3] trans-1,2-Dichloroethene	4.309	61	412	49.97	ug/L	72
4] 1,1-Dichloroethane	5.066	63	527	51.35	ug/L	84
5] cis-1,2-Dichloroethene	6.101	61	502	49.59	ug/L	92
6] Chloroform	6.676	83	688	63.12	ug/L	92
7] 1,1,1-Trichloroethane	6.944	97	570	53.13	ug/L	87
8] Carbon tetrachloride	7.211	117	525	51.66	ug/L	97
9] Benzene	7.540	78	2452	82.82	ug/L	65
10] 1,2-Dichloroethane	7.588	62	450	47.16	ug/L	67
11] Trichloroethene	8.624	130	438	53.83	ug/L	91
13] Toluene	10.645	91	2406	59.92	ug/L	96
14] 1,1,2-Trichloroethane	11.295	97	434	52.29	ug/L	71
15] Tetrachloroethene	11.495	166	621	54.89	ug/L	92
16] Chlorobenzene	12.837	112	1510	52.69	ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.980	131	533	54.80	ug/L #	65
18] Ethylbenzene	13.035	91	2602	54.00	ug/L	93
19] m&p-Xylene	13.234	91	3918	105.34	ug/L	96
20] o-Xylene	13.846	91	2185	55.47	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.947	83	927	54.64	ug/L	98
22] 1,3,5-Trimethylbenzene	15.413	105	2396	53.76	ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	2509	56.28	ug/L	98
24] Naphthalene	17.936	128	4394	60.06	ug/L	92
25) 2-Fluorotoluene SCAN	11.032	109	111042	5168.16	ug/L	95
26) 1,1-Dichloroethene SCAN	3.152	61	140	26.11	ug/L #	30
27) trans-1,2-Dichloroethe...	4.321	61	131	20.99	ug/L #	23
29) cis-1,2-Dichloroethene...	6.193	61	331	48.20	ug/L #	44
30) Chloroform SCAN	6.675	83	914	108.43	ug/L #	38
31) 1,1,1-Trichloroethane ...	6.638	97	999	133.14	ug/L #	26
32) Carbon tetrachloride SCAN	7.198	117	291	39.36	ug/L #	13
33) Benzene SCAN	7.636	78	9476	423.48	ug/L	65
34) 1,2-Dichloroethane SCAN	7.587	62	1429	187.26	ug/L #	29
35) Trichloroethene SCAN	8.623	130	307	56.07	ug/L #	16
36) Toluene-d8 SCAN	10.549	98	1651	85.00	ug/L #	15
37) Toluene SCAN	10.654	91	1703	68.64	ug/L #	41
38) 1,1,2-Trichloroethane ...	11.294	97	127	26.71	ug/L #	1
40) Chlorobenzene SCAN	12.836	112	358	23.79	ug/L #	34
41) 1,1,1,2-Tetrachloroeth...	13.161	131	489	91.02	ug/L #	13
42) Ethylbenzene SCAN	13.241	91	4742	164.43	ug/L	72
43) m&p-Xylene SCAN	13.241	91	4742	118.46	ug/L #	65
44) o-Xylene SCAN	13.844	91	1637	71.85	ug/L #	45
46) 1,3,5-Trimethylbenzene...	15.426	105	882	39.04	ug/L	83
47) 1,2,4-Trimethylbenzene...	15.958	105	1984	85.69	ug/L #	21
48) Naphthalene SCAN	17.935	128	2461	74.50	ug/L	65

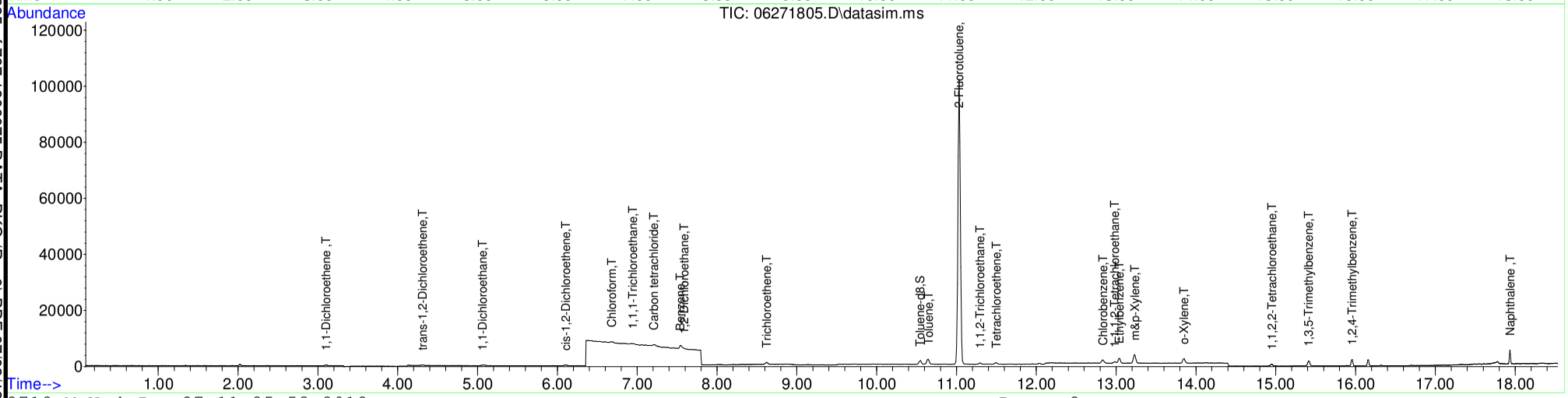
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271805.D
Acq On : 27 Jun 2018 11:06
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 11:25:05 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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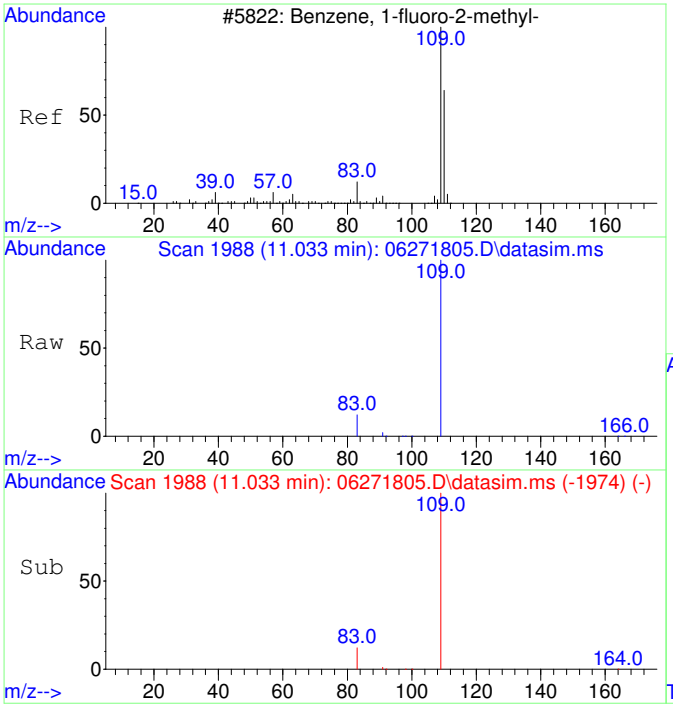
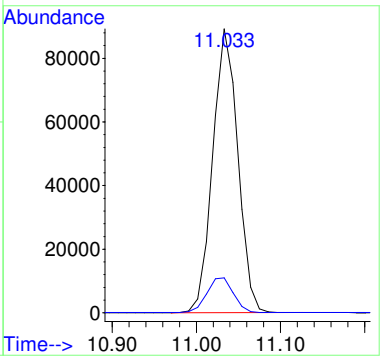
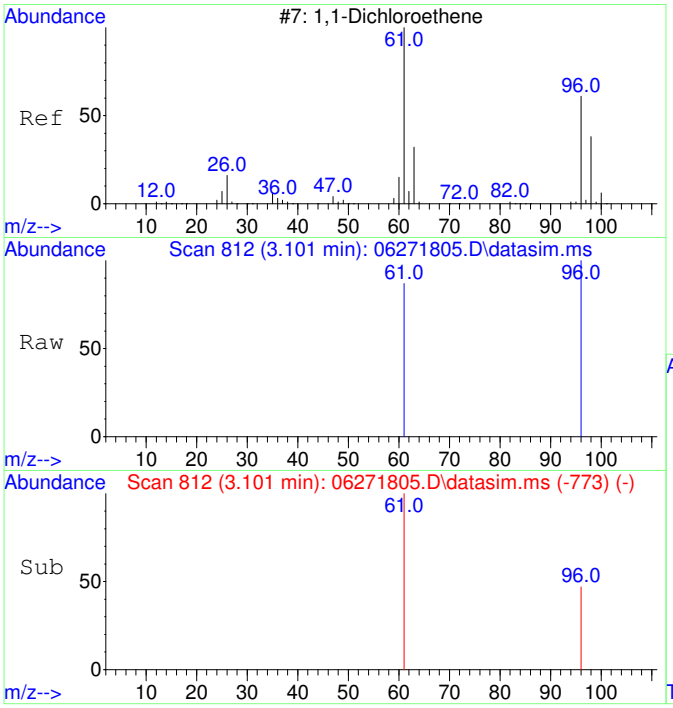


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:109 Resp: 184385

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.7

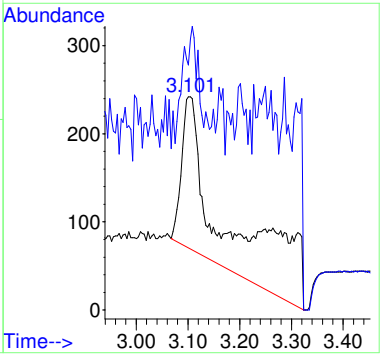




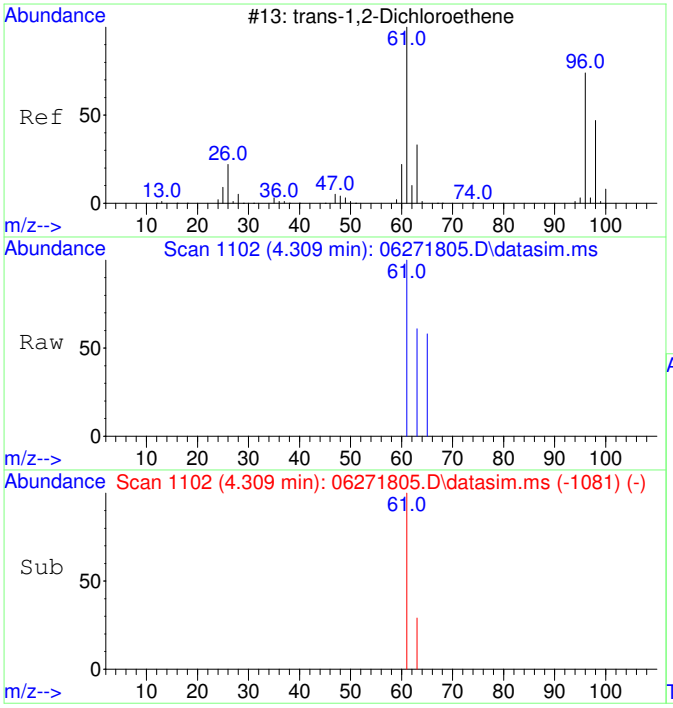
#2
1,1-Dichloroethene
Concen: 130.06 ug/L
RT: 3.101 min Scan# 812
Delta R.T. -0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 1005

Ion	Ratio	Lower	Upper
61	100		
96	30.2	28.7	88.7



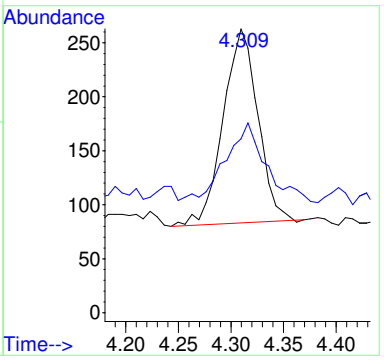
Before MI:
IMPROPER
BASELINE

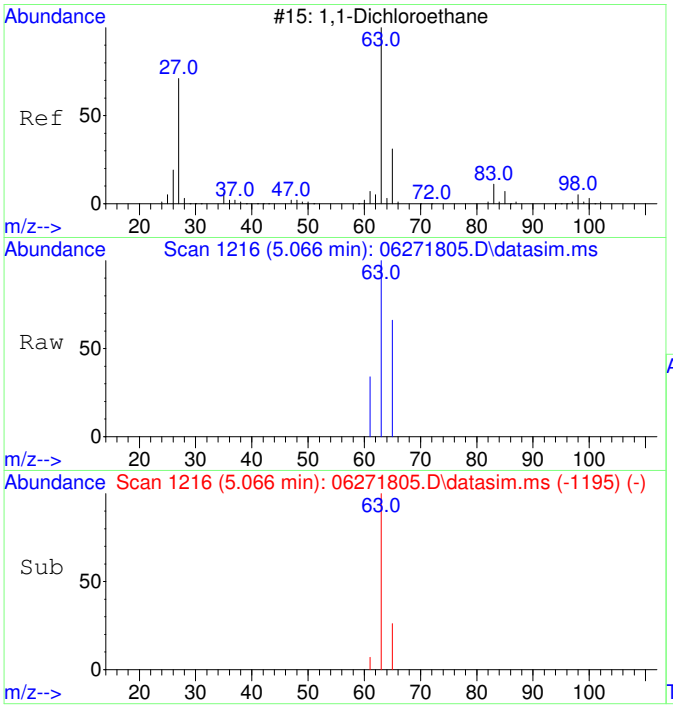


#3
trans-1,2-Dichloroethene
Concen: 49.97 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 412

Ion	Ratio	Lower	Upper
61	100		
63	47.8	2.0	62.0

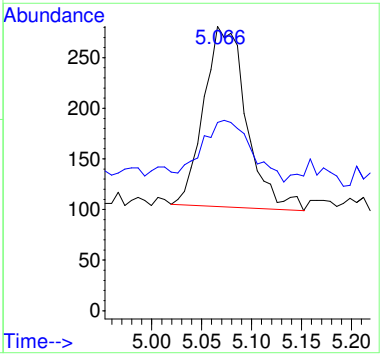


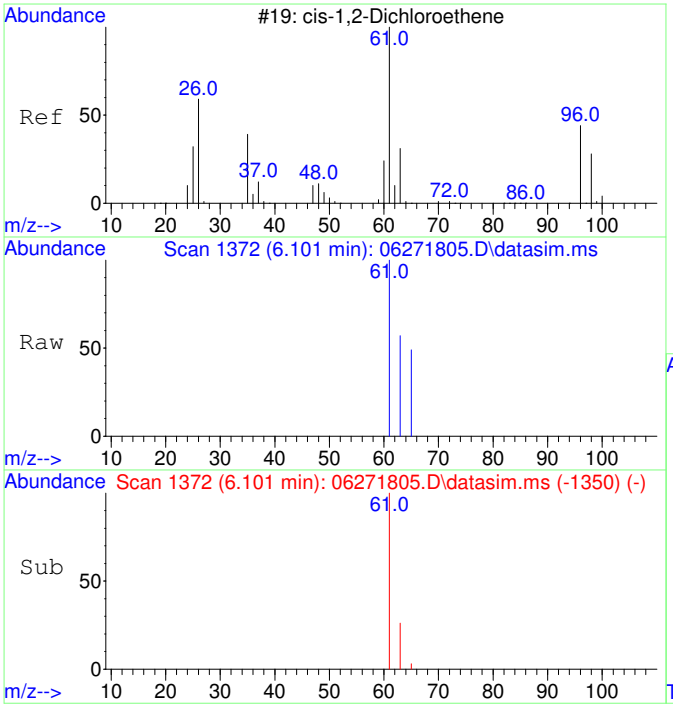


#4
1,1-Dichloroethane
Concen: 51.35 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 63 Resp: 527

Ion	Ratio	Lower	Upper
63	100		
65	40.4	1.5	61.5

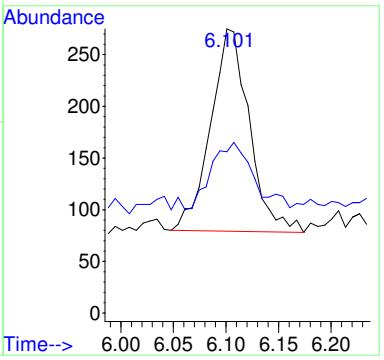


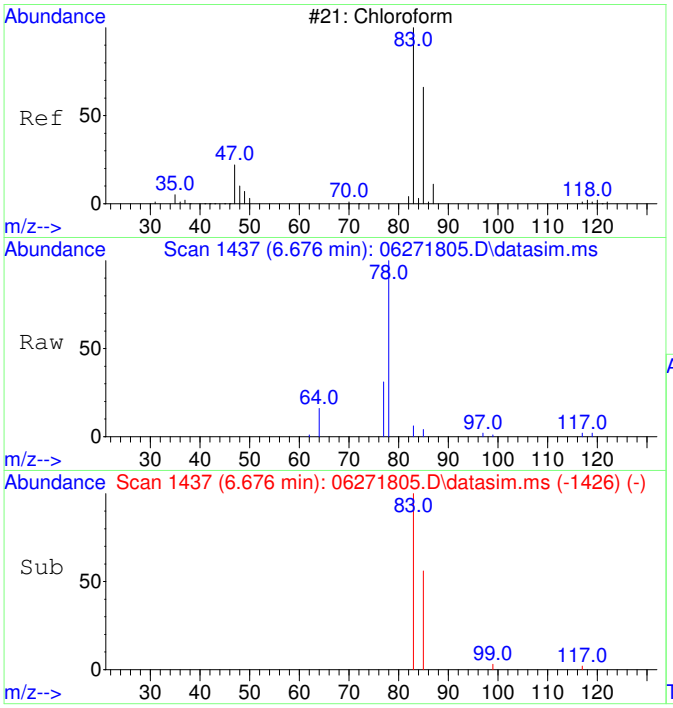


#5
cis-1,2-Dichloroethene
Concen: 49.59 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 502

Ion	Ratio	Lower	Upper
61	100		
63	36.9	2.2	62.2

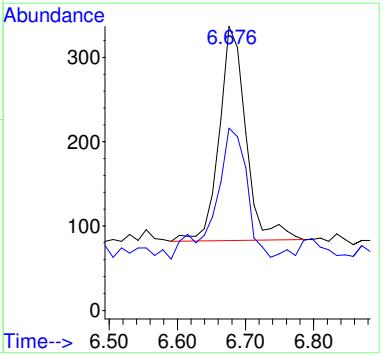


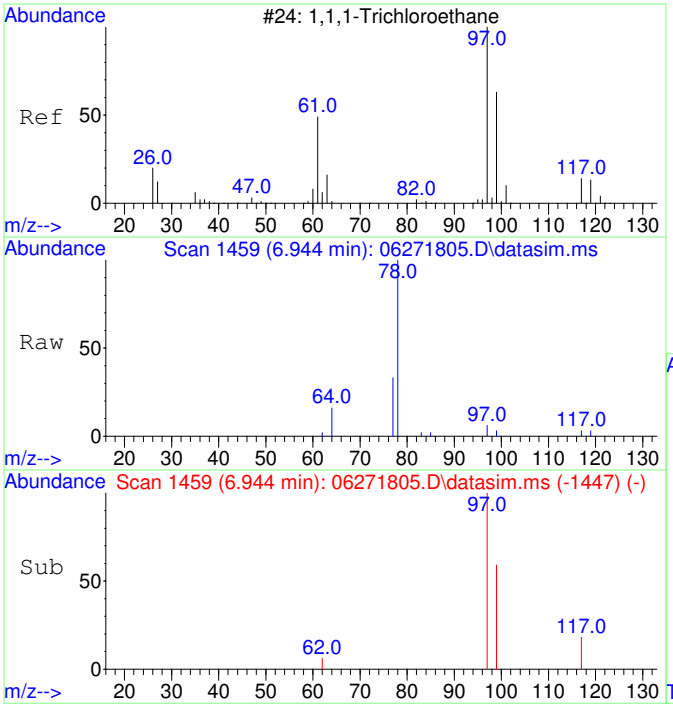


#6
Chloroform
Concen: 63.12 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 688

Ion	Ratio	Lower	Upper
83	100		
85	71.1	34.8	94.8

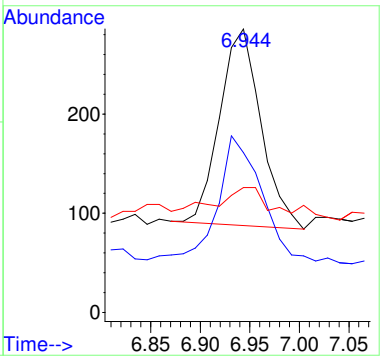


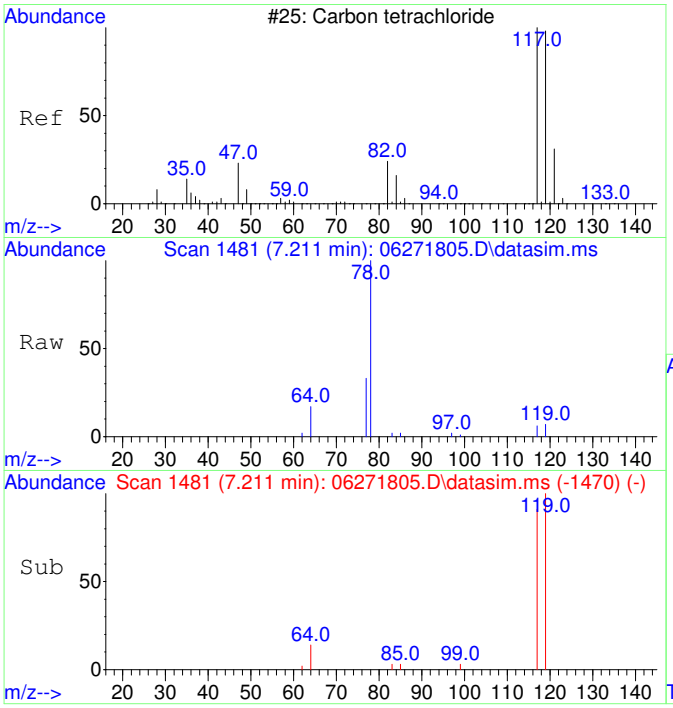


#7
1,1,1-Trichloroethane
Concen: 53.13 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 570

Ion	Ratio	Lower	Upper
97	100		
99	71.6	34.6	94.6
117	26.3	0.0	42.9

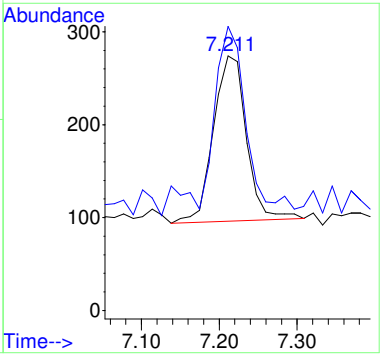


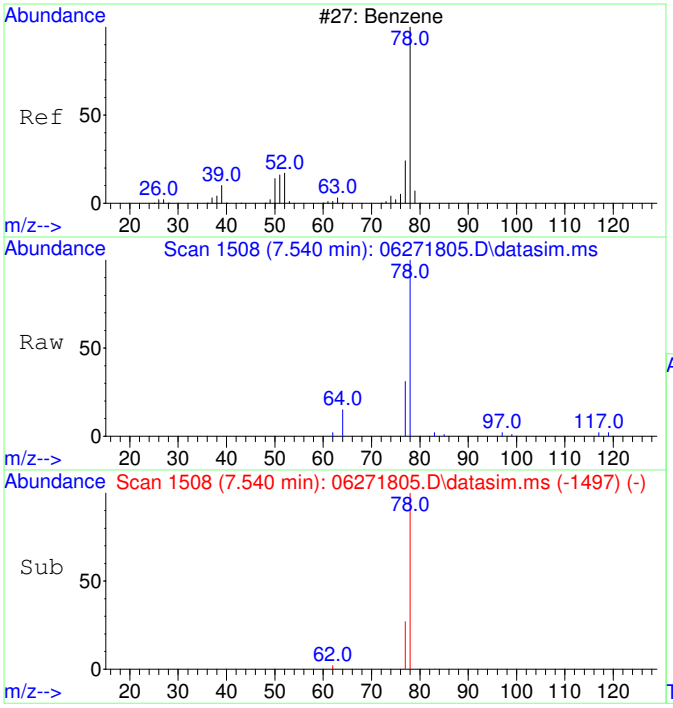


#8
Carbon tetrachloride
Concen: 51.66 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:117 Resp: 525

Ion	Ratio	Lower	Upper
117	100		
119	98.9	65.9	125.9

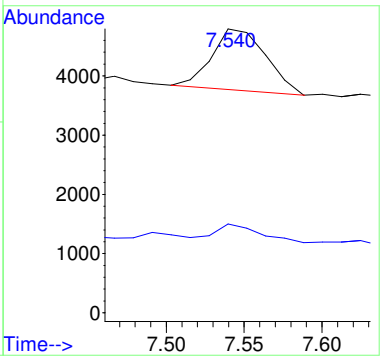


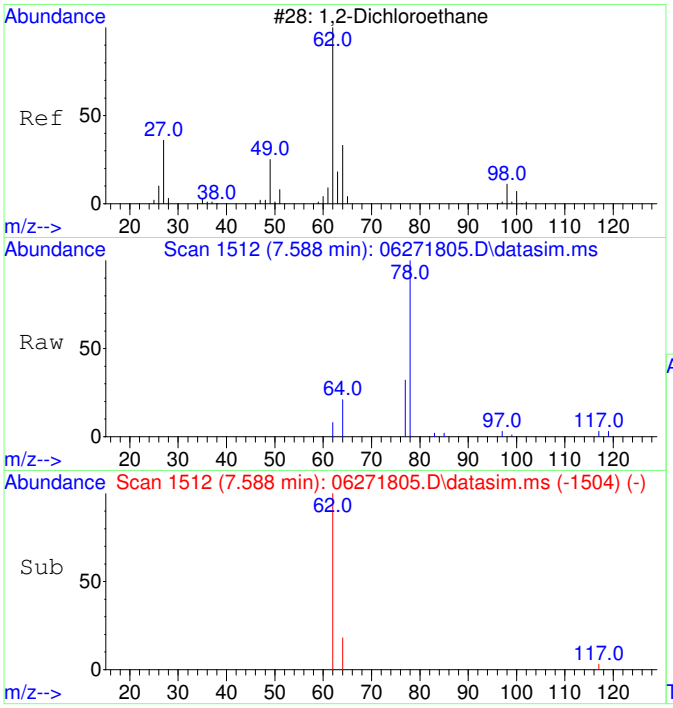


#9
Benzene
Concen: 82.82 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 78 Resp: 2452

Ion	Ratio	Lower	Upper
78	100		
77	40.1	0.0	53.0

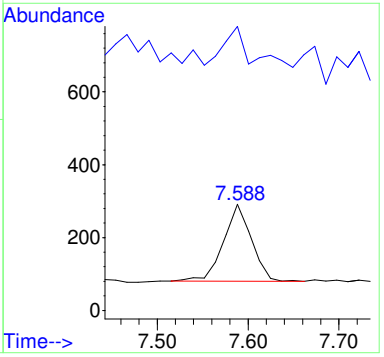


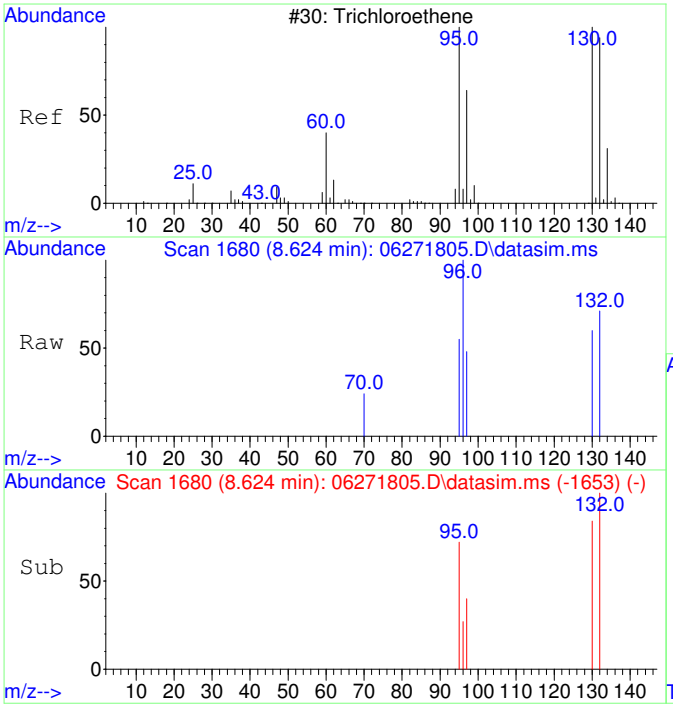


#10
1,2-Dichloroethane
Concen: 47.16 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 62 Resp: 450

Ion	Ratio	Lower	Upper
62	100		
64	50.7	2.3	62.3

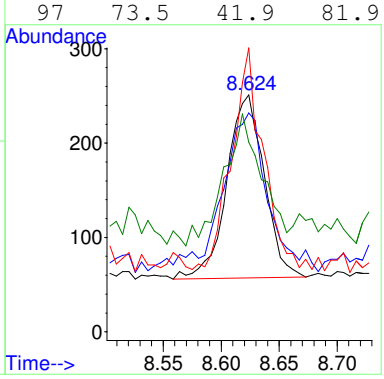


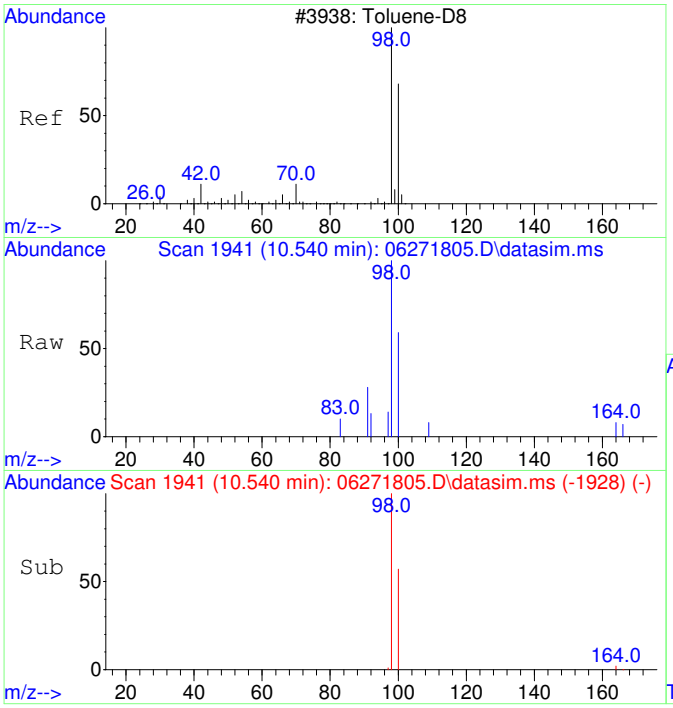


#11
Trichloroethene
Concen: 53.83 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:130 Resp: 438

Ion	Ratio	Lower	Upper
130	100		
95	105.7	66.0	126.0
132	102.3	78.8	118.8
97	73.5	41.9	81.9

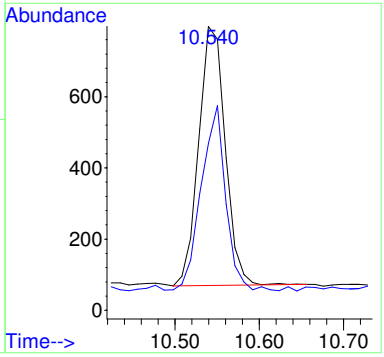


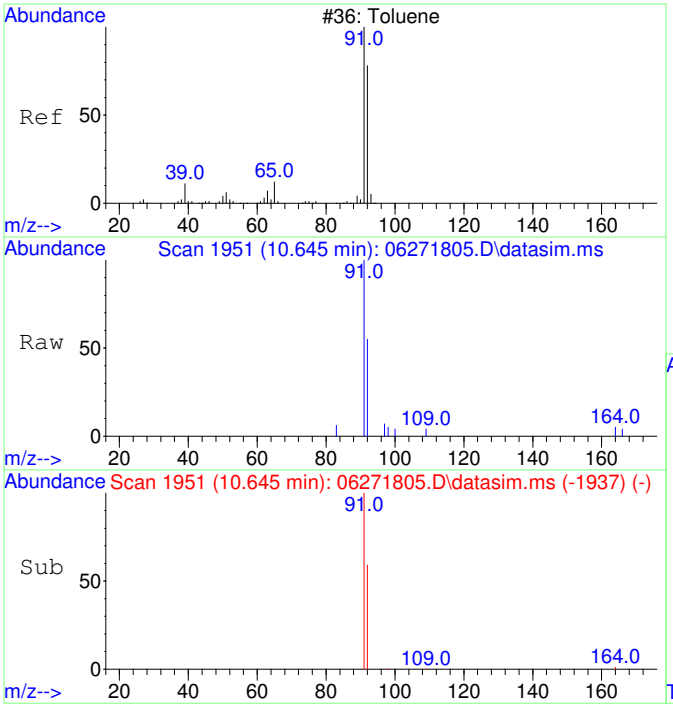


#12
Toluene-d8
Concen: 53.09 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 98 Resp: 1590

Ion	Ratio	Lower	Upper
98	100		
100	65.6	38.7	98.7

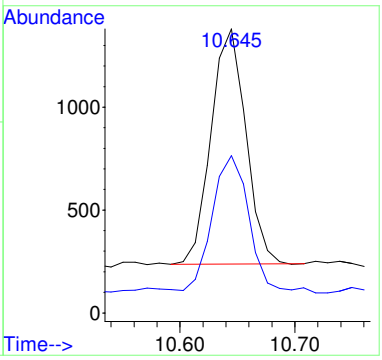


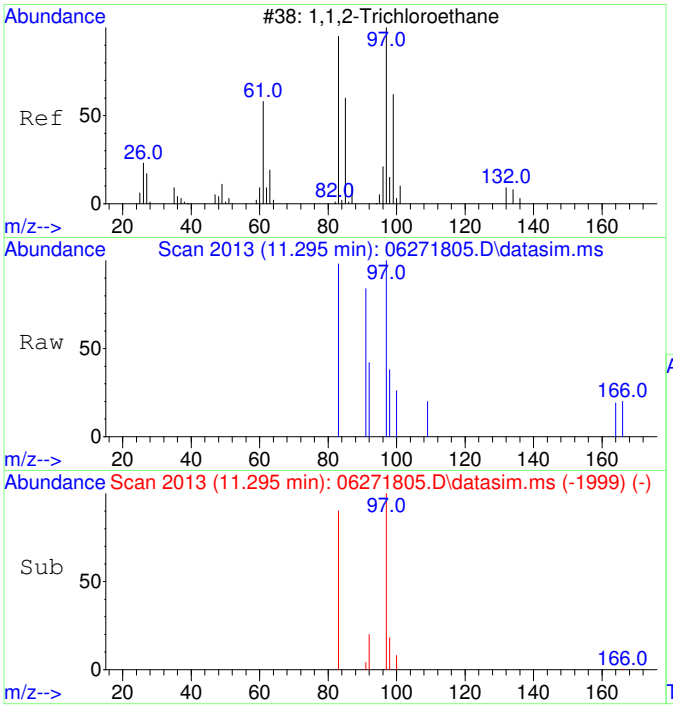


#13
Toluene
Concen: 59.92 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2406

Ion	Ratio	Lower	Upper
91	100		
92	63.2	30.0	90.0

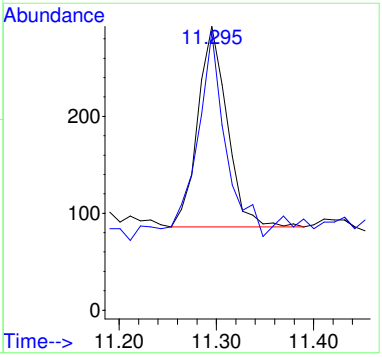


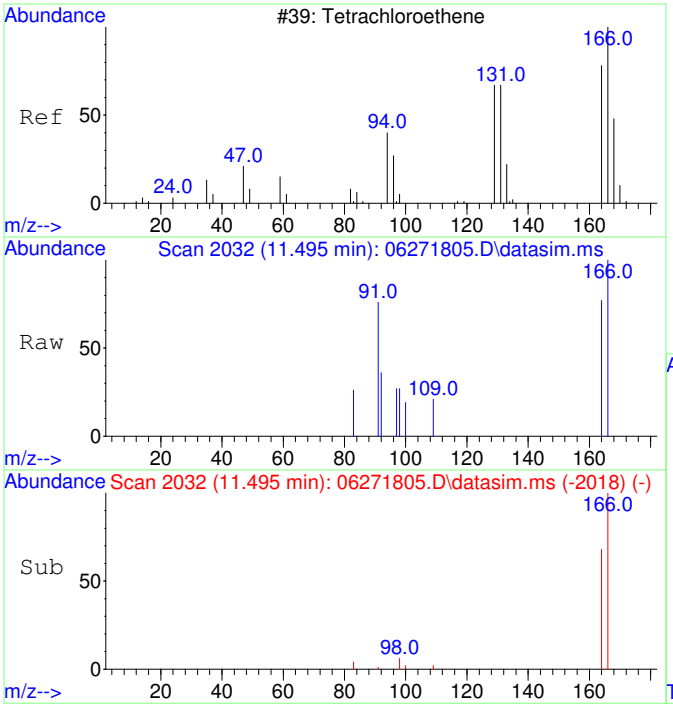


#14
1,1,2-Trichloroethane
Concen: 52.29 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 434

Ion	Ratio	Lower	Upper
97	100		
83	109.2	53.4	113.4

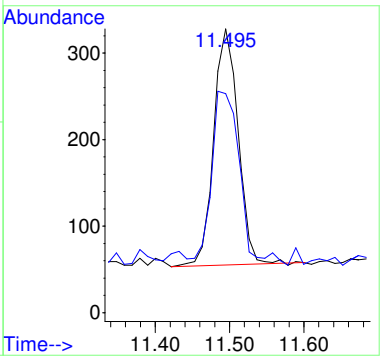


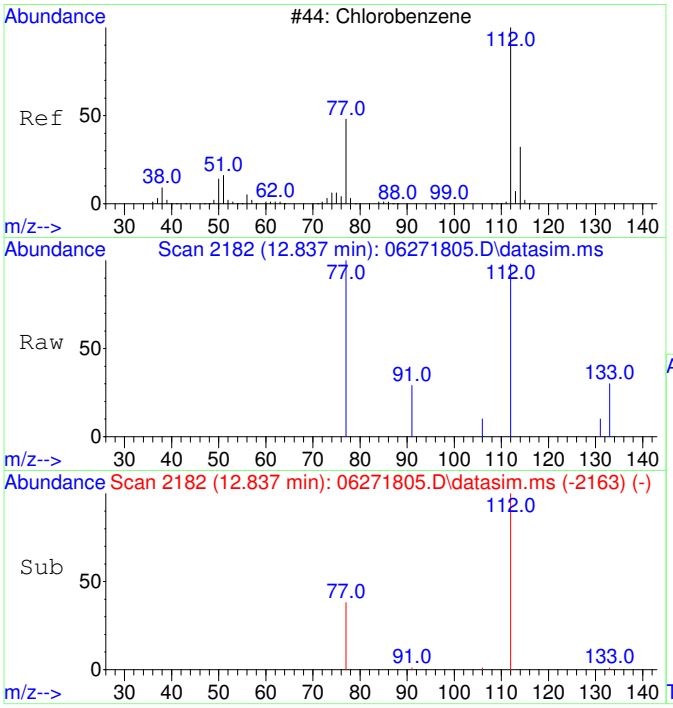


#15
Tetrachloroethene
Concen: 54.89 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:166 Resp: 621

Ion	Ratio	Lower	Upper
166	100		
164	84.9	47.8	107.8

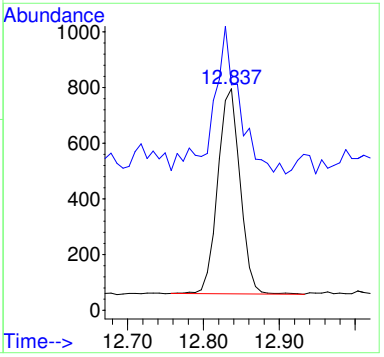


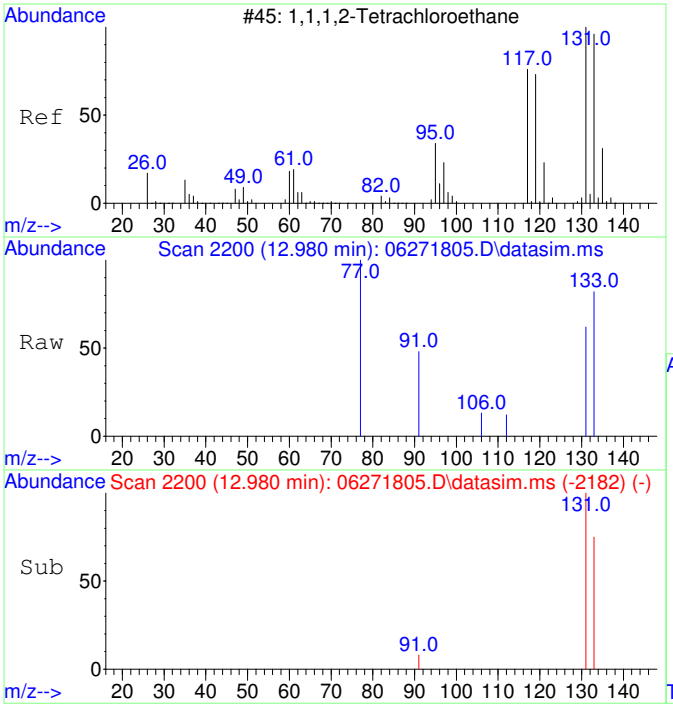


#16
Chlorobenzene
Concen: 52.69 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:112 Resp: 1510

Ion	Ratio	Lower	Upper
112	100		
77	73.7	28.1	88.1

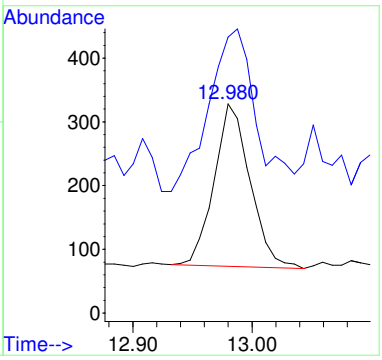


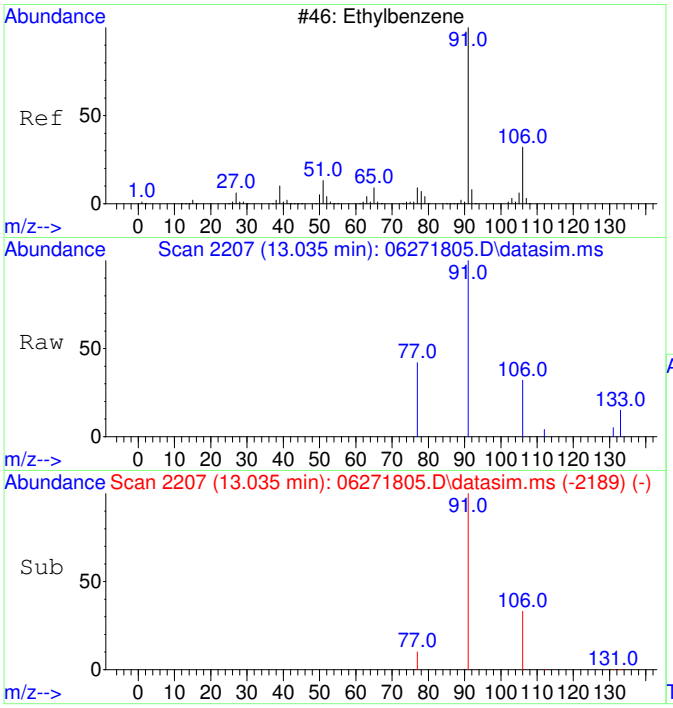


#17
1,1,1,2-Tetrachloroethane
Concen: 54.80 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:131 Resp: 533

Ion	Ratio	Lower	Upper
131	100		
133	130.6	66.2	126.2#

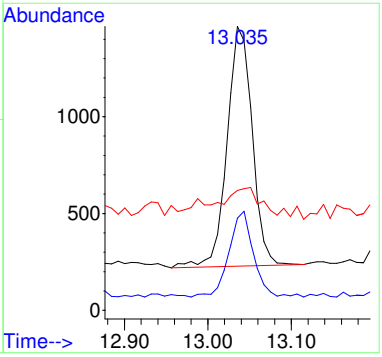


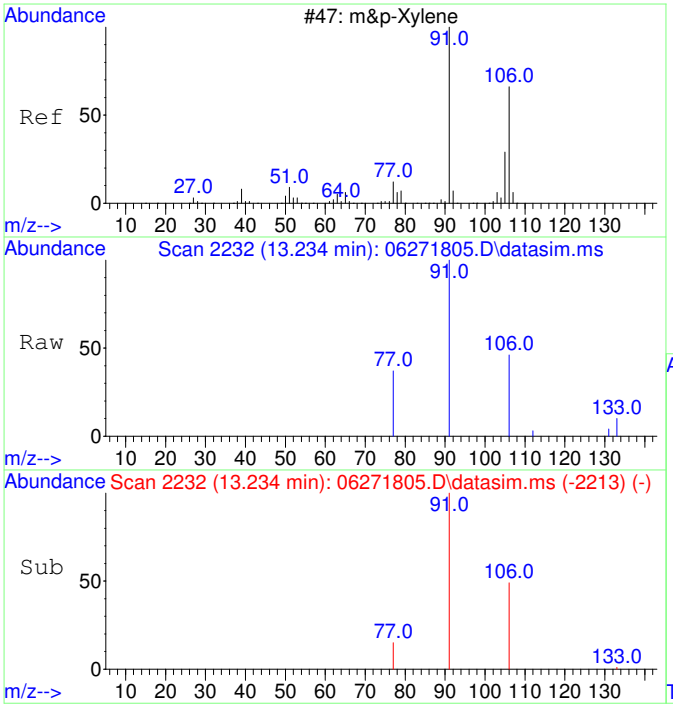


#18
Ethylbenzene
Concen: 54.00 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2602

Ion	Ratio	Lower	Upper
91	100		
106	34.6	2.8	62.8
77	16.3	0.0	38.6

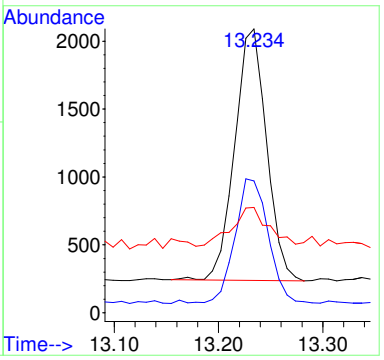


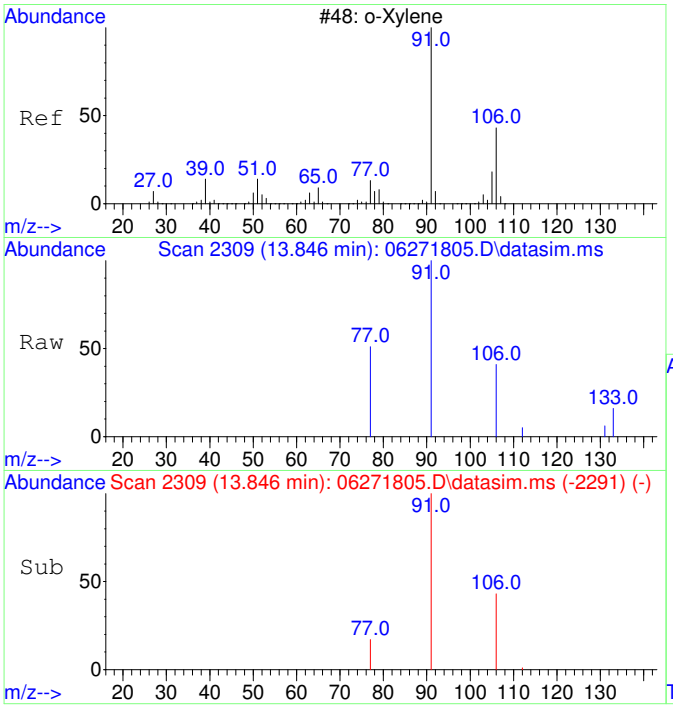


#19
m&p-Xylene
Concen: 105.34 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 3918

Ion	Ratio	Lower	Upper
91	100		
106	50.8	21.2	81.2
77	20.1	0.0	42.9

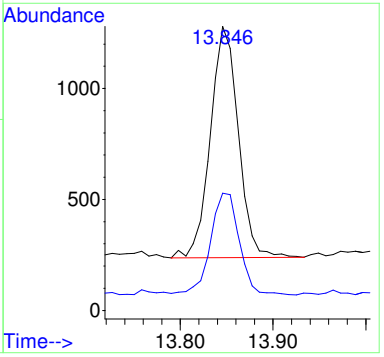


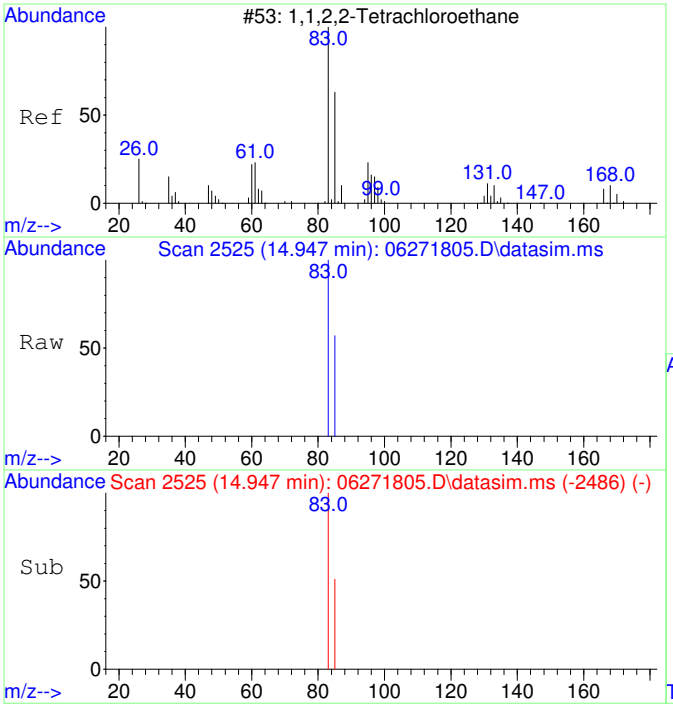


#20
o-Xylene
Concen: 55.47 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2185

Ion	Ratio	Lower	Upper
91	100		
106	45.3	18.3	78.3

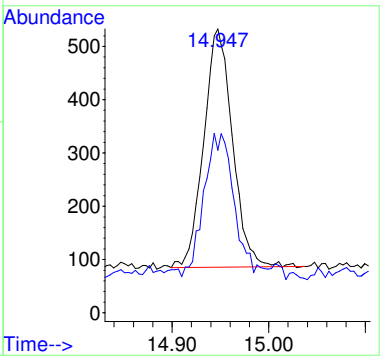


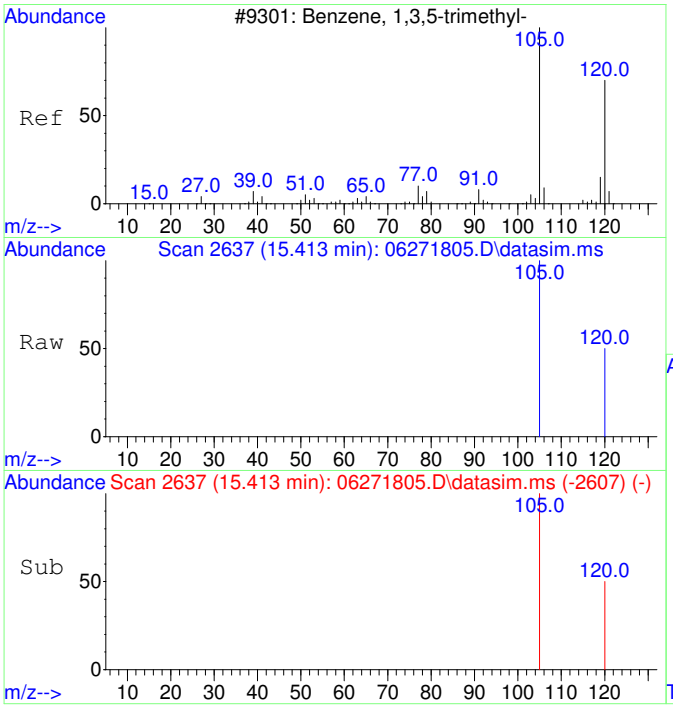


#21
1,1,2,2-Tetrachloroethane
Concen: 54.64 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 927

Ion	Ratio	Lower	Upper
83	100		
85	63.2	34.4	94.4

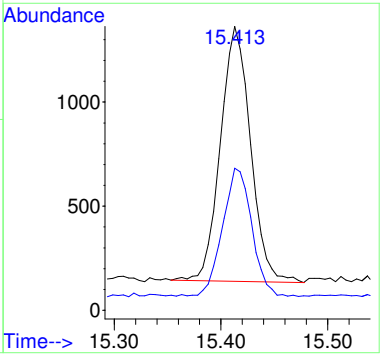


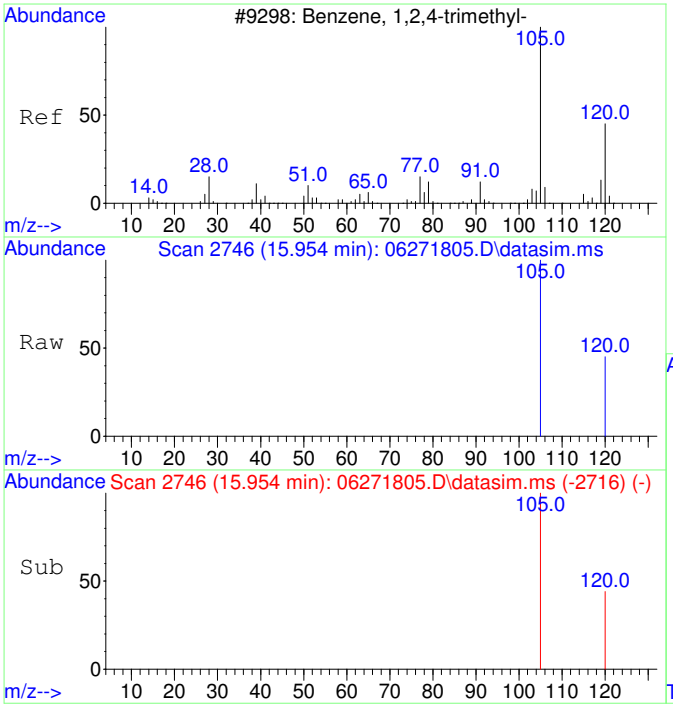


#22
1,3,5-Trimethylbenzene
Concen: 53.76 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.001 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 2396

Ion	Ratio	Lower	Upper
105	100		
120	48.5	19.1	79.1

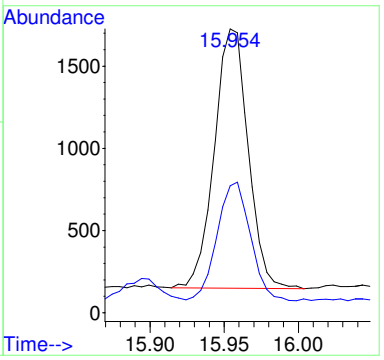


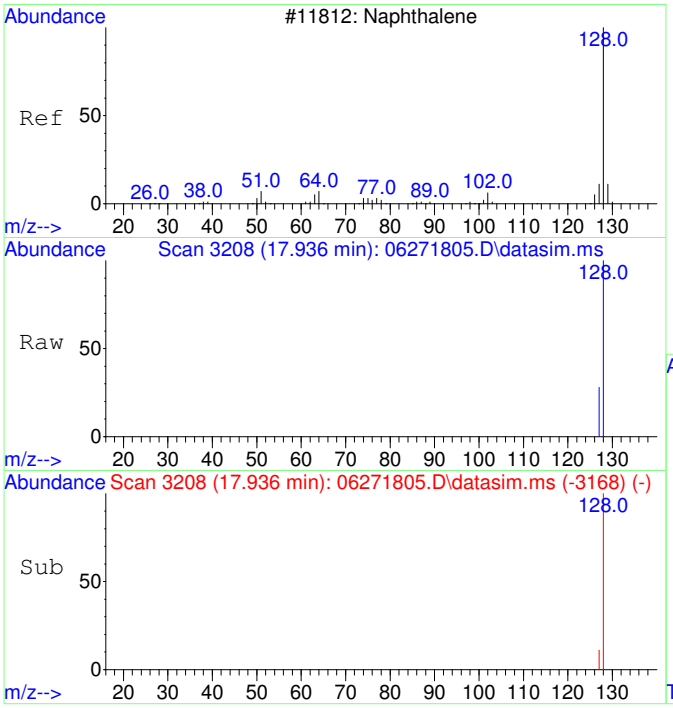


#23
1,2,4-Trimethylbenzene
Concen: 56.28 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 2509

Ion	Ratio	Lower	Upper
105	100		
120	44.4	15.5	75.5

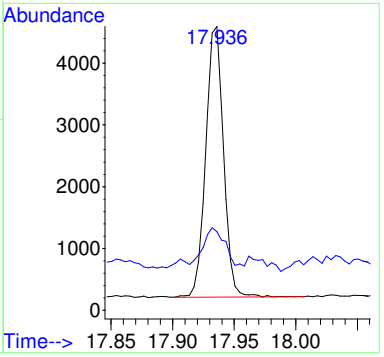


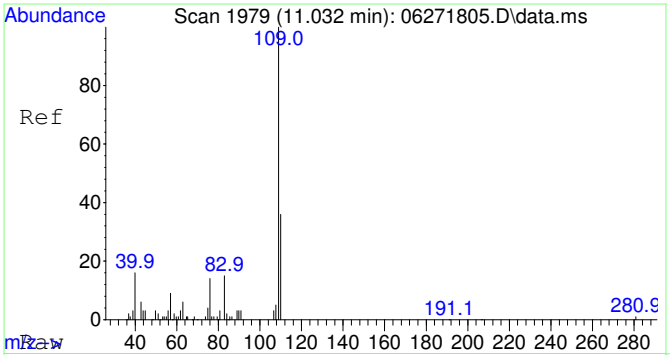


#24
Naphthalene
Concen: 60.06 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:128 Resp: 4394

Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	42.5

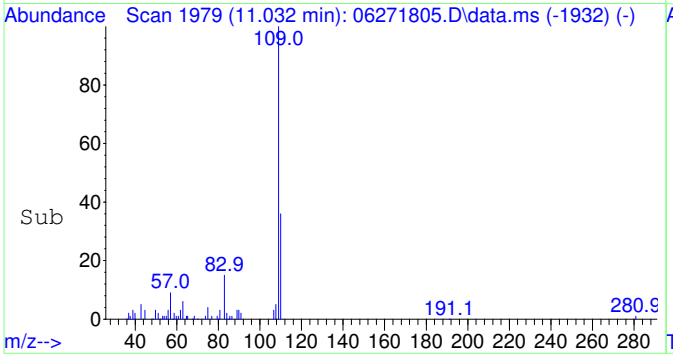


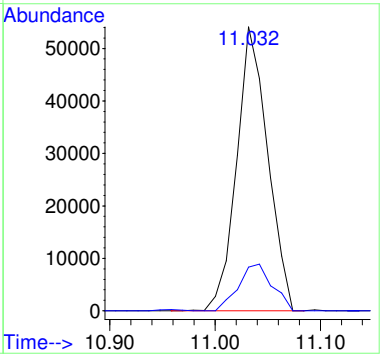


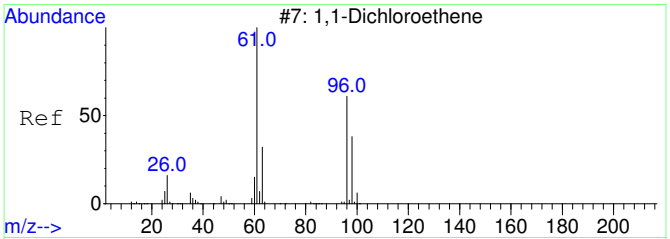
#25
2-Fluorotoluene SCAN
Concen: 5168.16 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:109 Resp: 111042

Ion	Ratio	Lower	Upper
109	100		
83	17.9	0.0	45.7



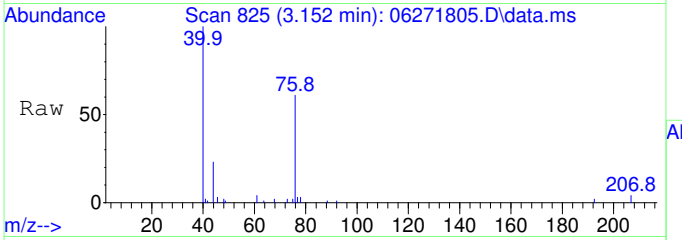


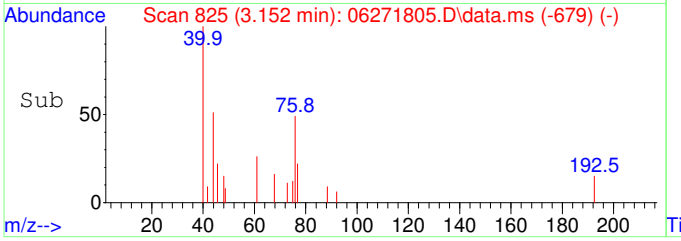


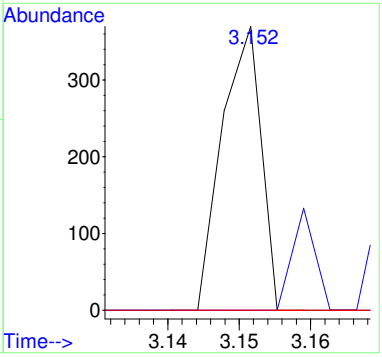
#26
1,1-Dichloroethene SCAN
Concen: 26.11 ug/L
RT: 3.152 min Scan# 825
Delta R.T. 0.041 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

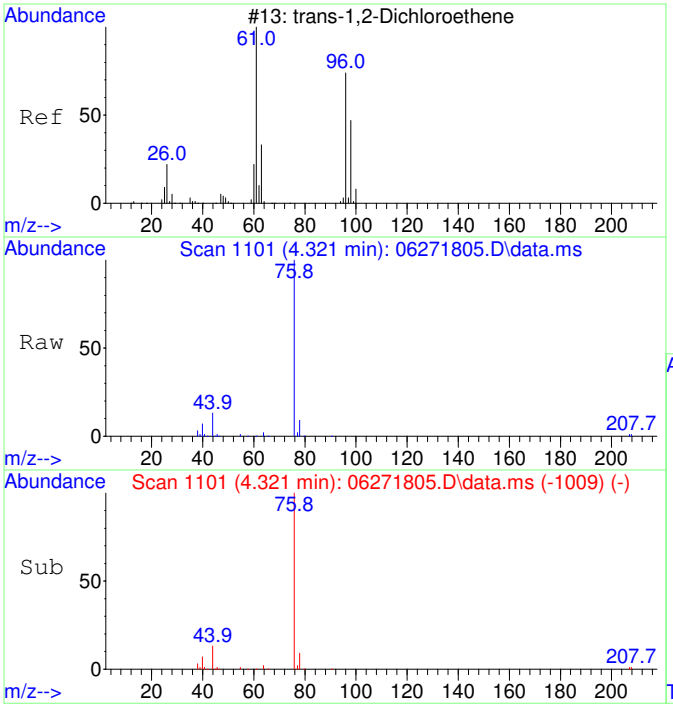
Tgt Ion: 61 Resp: 140

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





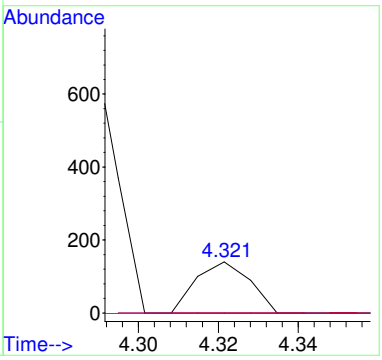


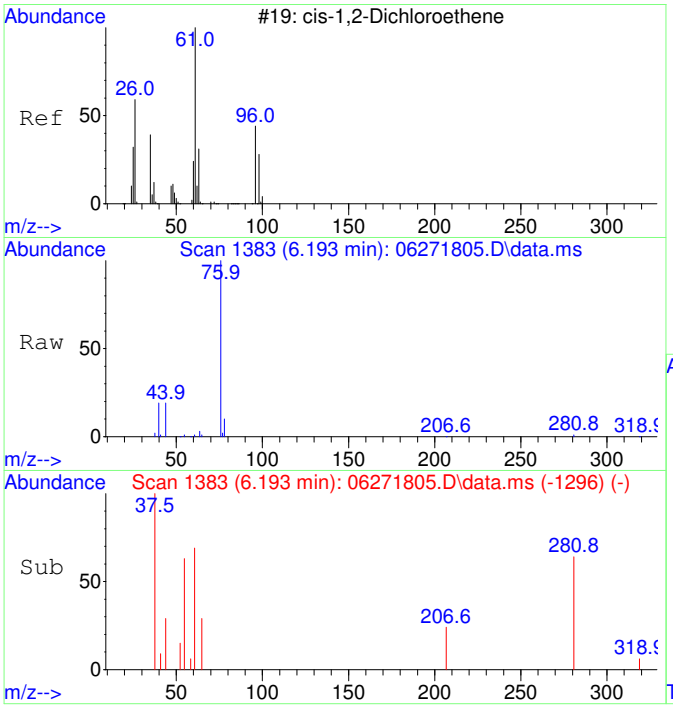


#27
trans-1,2-Dichloroethene SCAN
Concen: 20.99 ug/L
RT: 4.321 min Scan# 1101
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

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#

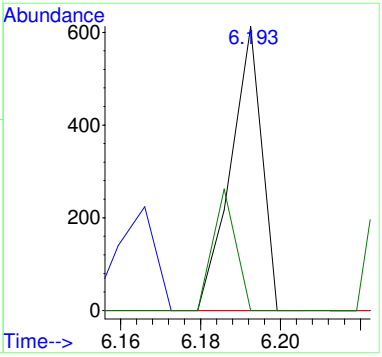


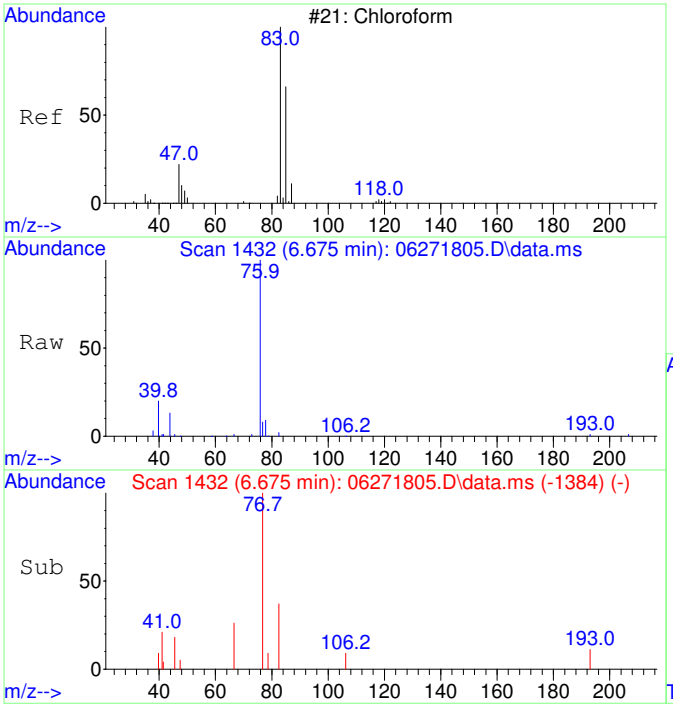


#29
cis-1,2-Dichloroethene SCAN
Concen: 48.20 ug/L
RT: 6.193 min Scan# 1383
Delta R.T. 0.080 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 331

Ion	Ratio	Lower	Upper
61	100		
96	0.0	28.2	88.2#
98	0.0	14.1	74.1#
63	31.4	1.5	61.5

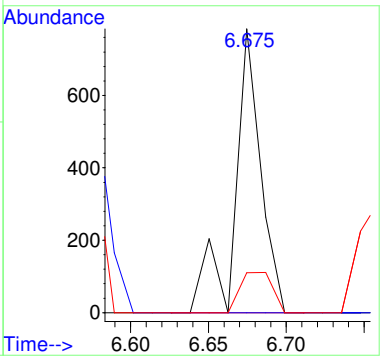


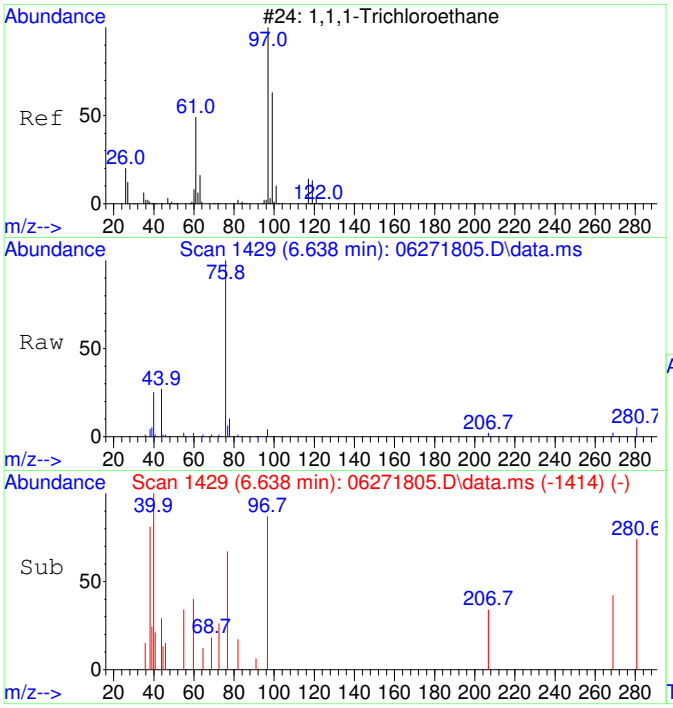


#30
Chloroform SCAN
Concen: 108.43 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 914

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	17.6	0.0	57.9

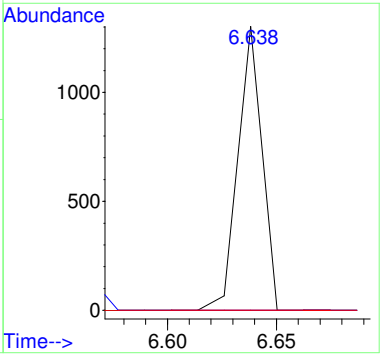


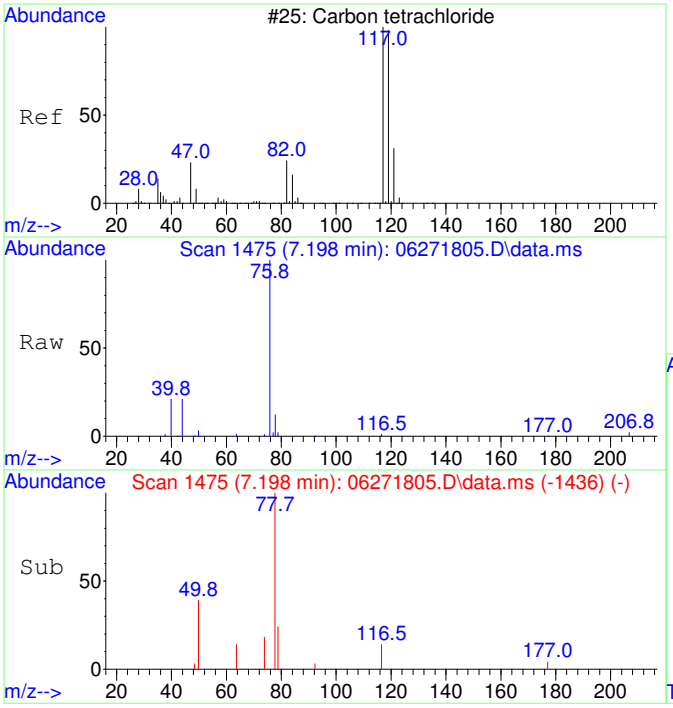


#31
1,1,1-Trichloroethane SCAN
Concen: 133.14 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.316 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 999

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

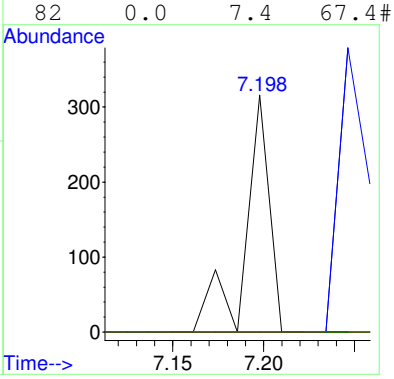


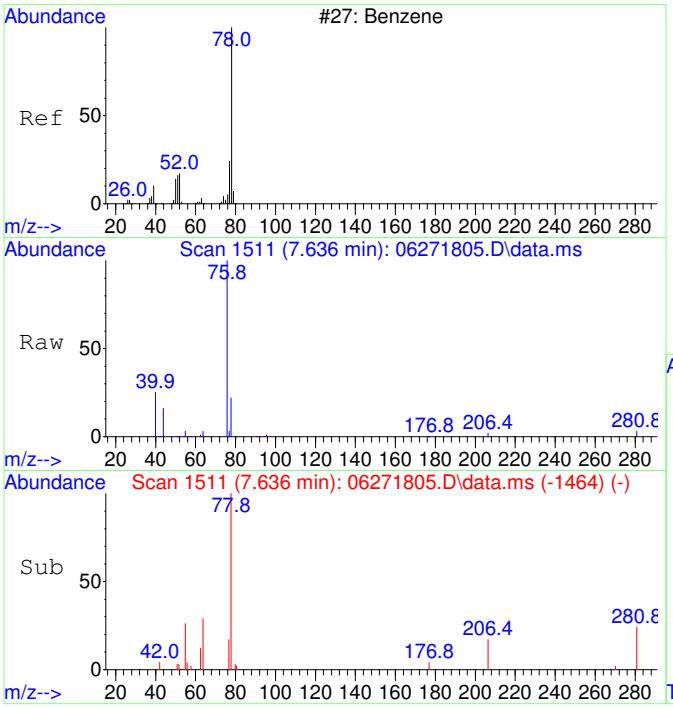


#32
Carbon tetrachloride SCAN
Concen: 39.36 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. -0.024 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:117 Resp: 291

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#

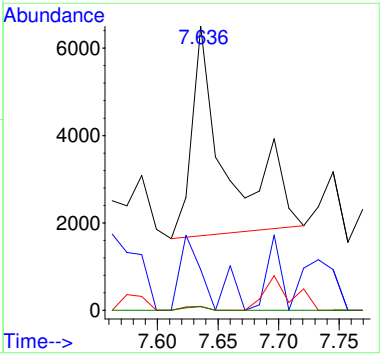


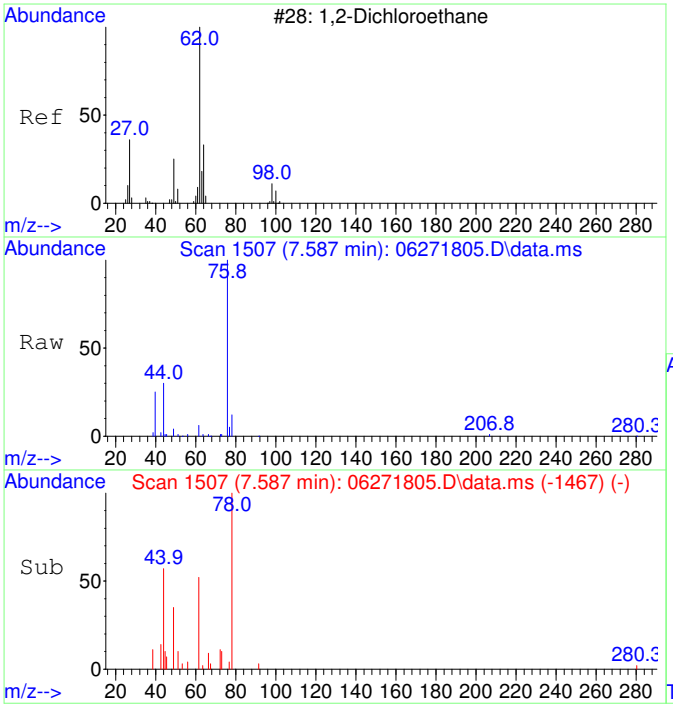


#33
Benzene SCAN
Concen: 423.48 ug/L
RT: 7.636 min Scan# 1511
Delta R.T. 0.073 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 78 Resp: 9476

Ion	Ratio	Lower	Upper
78	100		
77	20.4	3.0	63.0
51	1.3	0.0	56.4
52	1.1	0.0	48.0

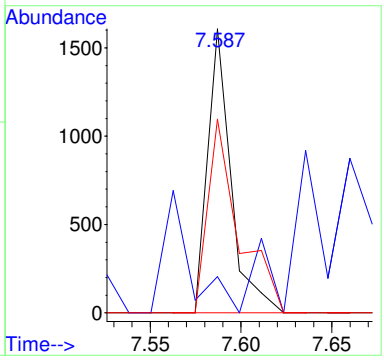


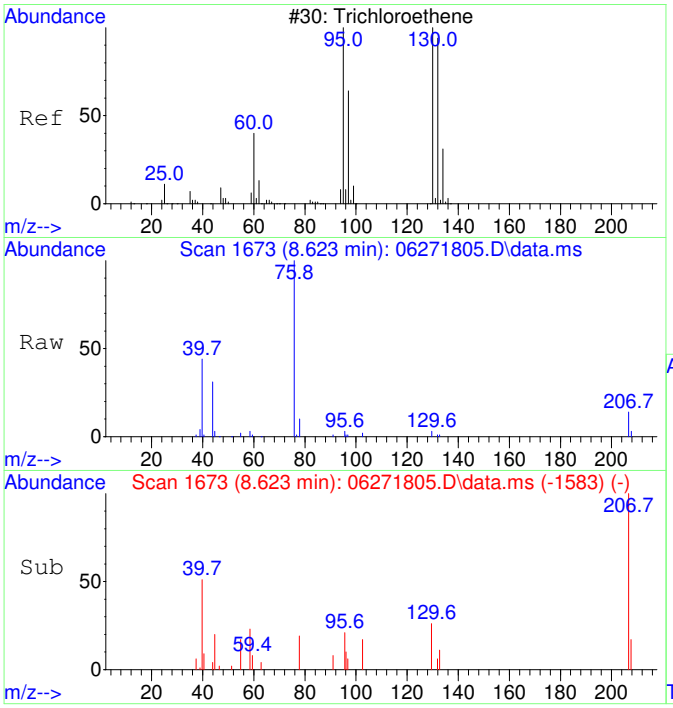


#34
1,2-Dichloroethane SCAN
Concen: 187.26 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 62 Resp: 1429

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	91.2	10.4	70.4#

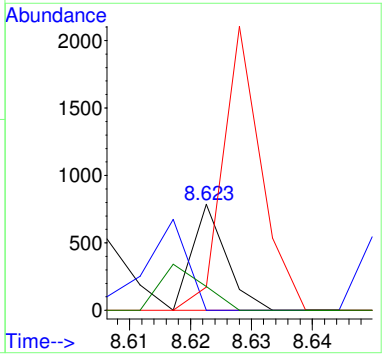


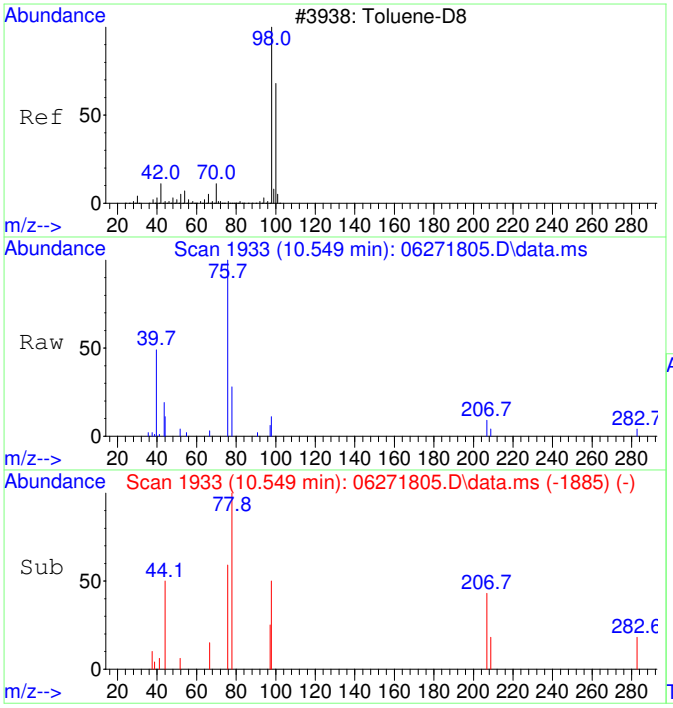


#35
Trichloroethene SCAN
Concen: 56.07 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:130 Resp: 307

Ion	Ratio	Lower	Upper
130	100		
95	109.1	70.5	130.5
132	299.7	63.8	123.8#
97	55.4	34.8	94.8

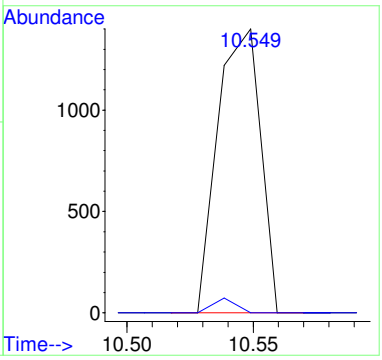


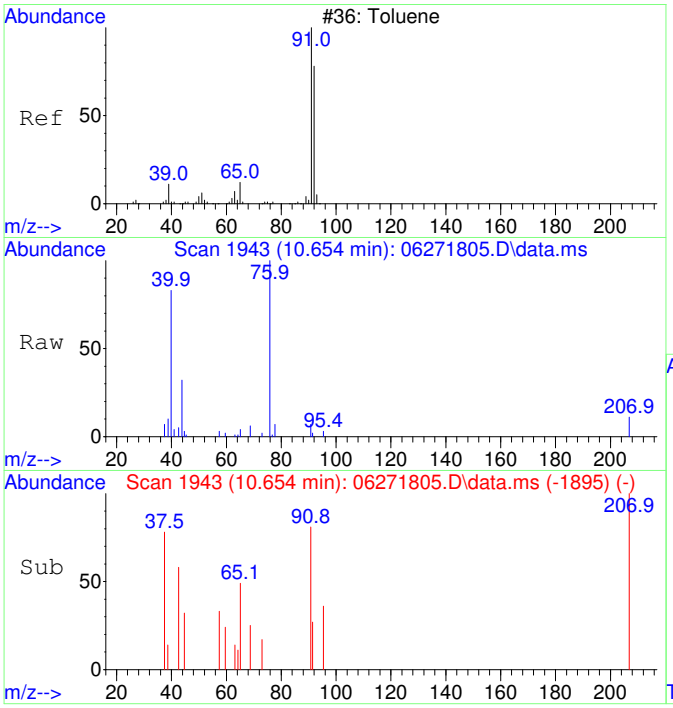


#36
Toluene-d8 SCAN
Concen: 85.00 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 98 Resp: 1651

Ion	Ratio	Lower	Upper
98	100		
100	0.0	39.5	99.5#

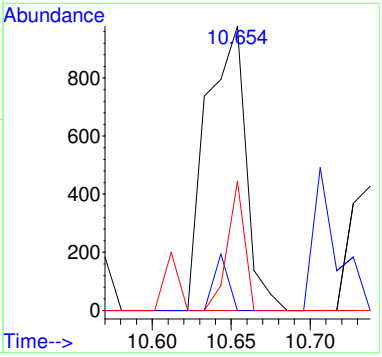


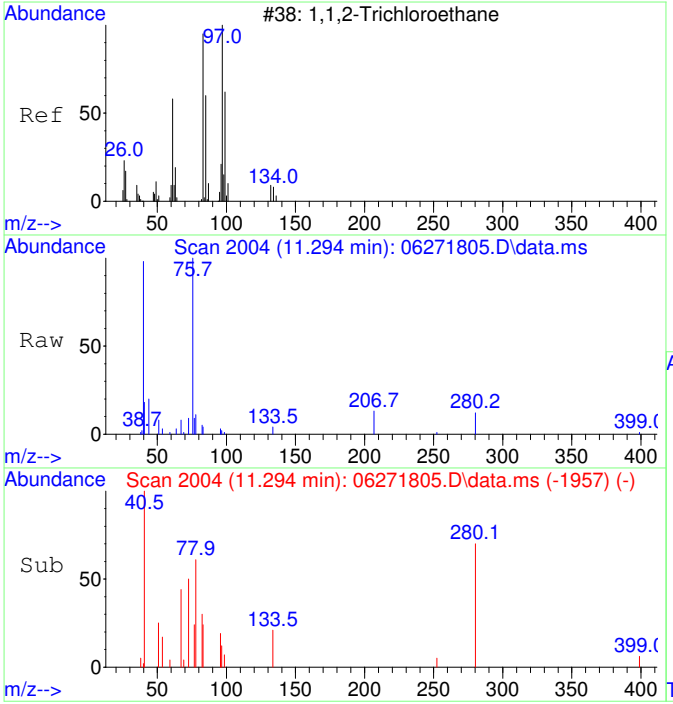


#37
Toluene SCAN
Concen: 68.64 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 1703

Ion	Ratio	Lower	Upper
91	100		
92	7.2	26.6	86.6#
65	19.6	0.0	42.3

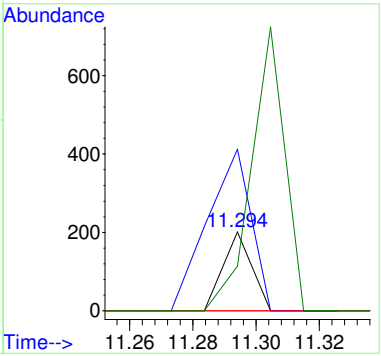


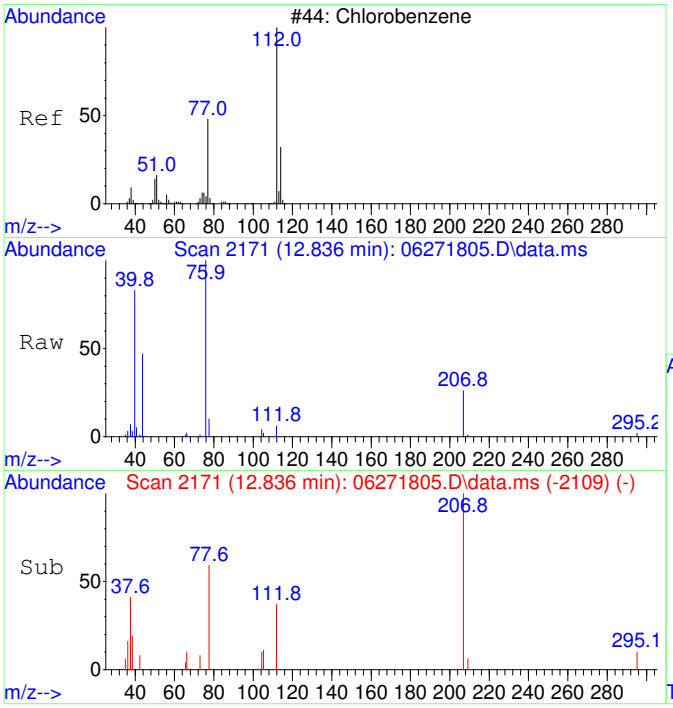


#38
1,1,2-Trichloroethane SCAN
Concen: 26.71 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 127

Ion	Ratio	Lower	Upper
97	100		
83	311.0	63.6	123.6#
61	0.0	44.9	104.9#
99	415.7	37.0	97.0#

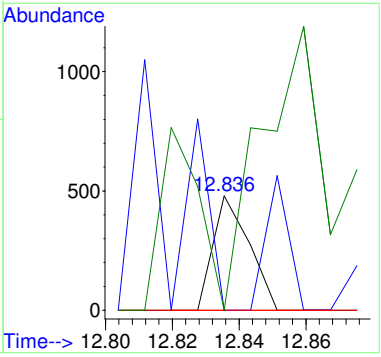


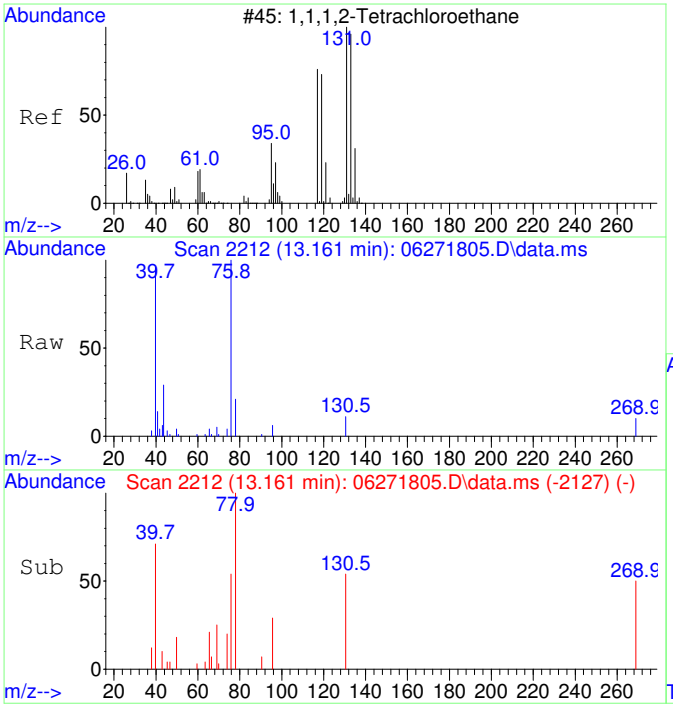


#40
Chlorobenzene SCAN
Concen: 23.79 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:112 Resp: 358

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

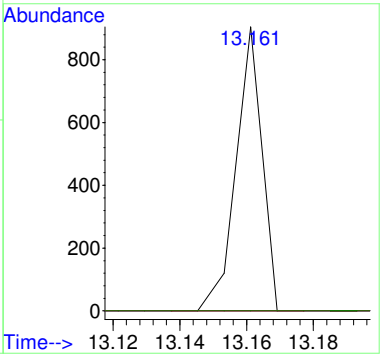


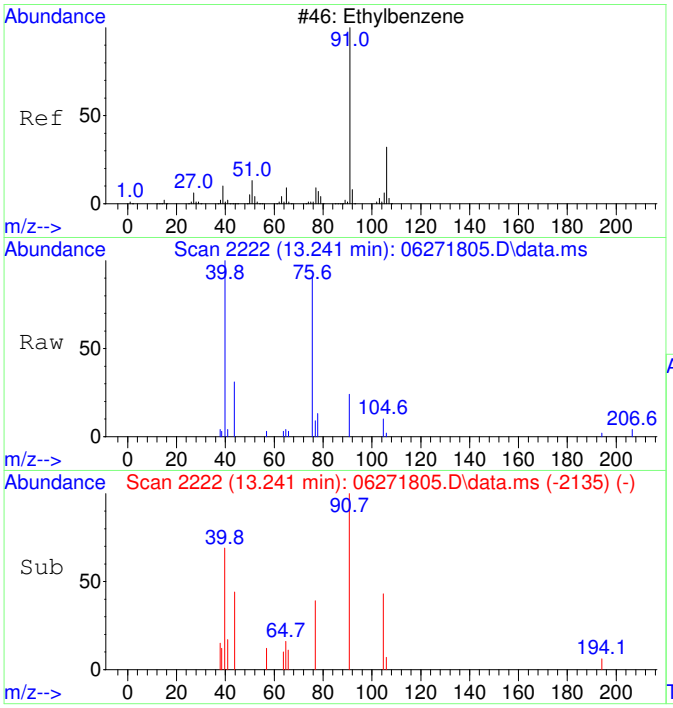


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 91.02 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.175 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:131 Resp: 489

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#

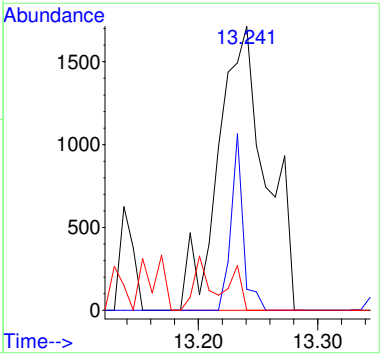


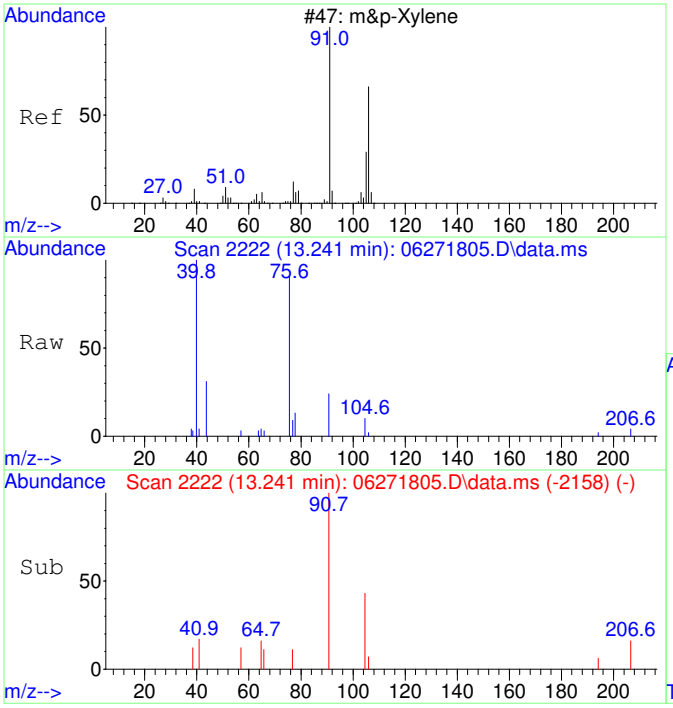


#42
Ethylbenzene SCAN
Concen: 164.43 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.191 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 4742

Ion	Ratio	Lower	Upper
91	100		
106	16.0	3.2	63.2
51	2.7	0.0	40.1

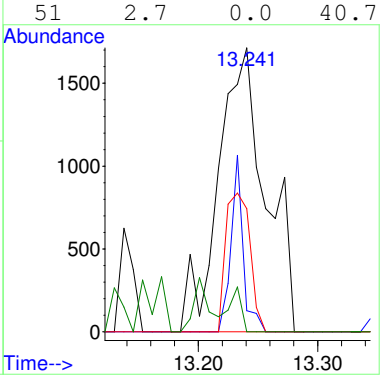


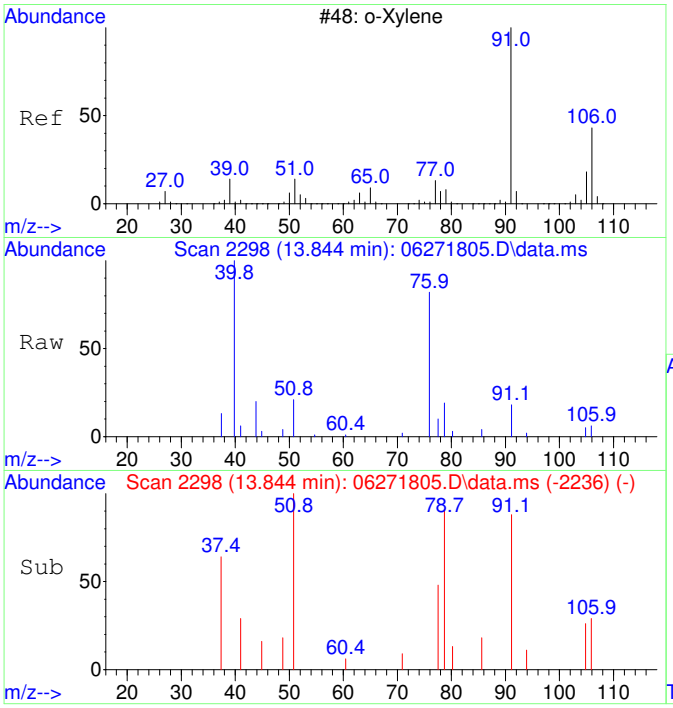


#43
m&p-Xylene SCAN
Concen: 118.46 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 4742

Ion	Ratio	Lower	Upper
91	100		
106	16.0	20.1	80.1#
105	25.1	0.0	51.1
51	2.7	0.0	40.7

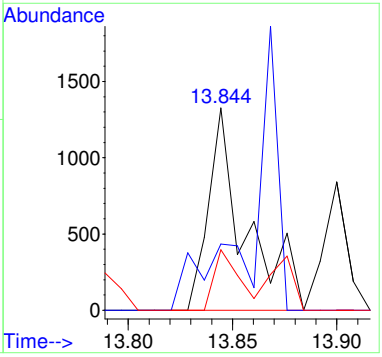


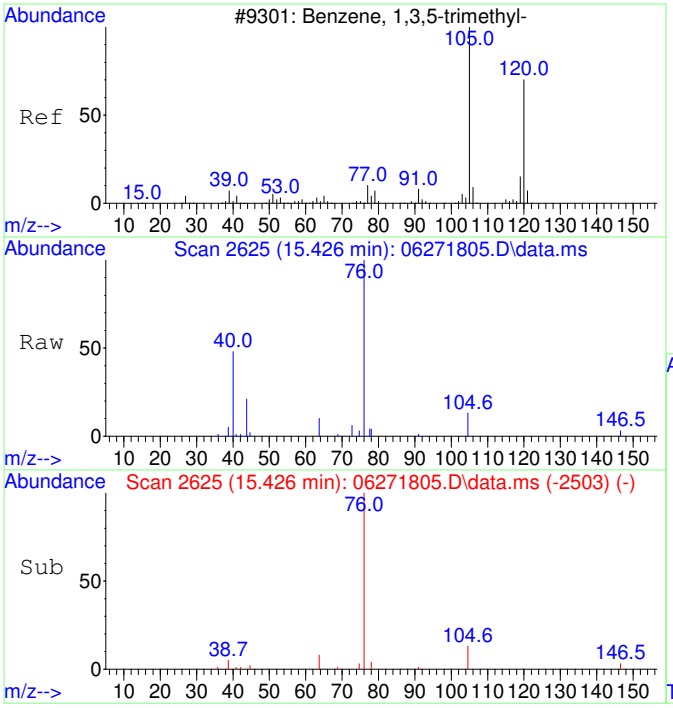


#44
o-Xylene SCAN
Concen: 71.85 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 1637

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	17.1	0.0	55.2

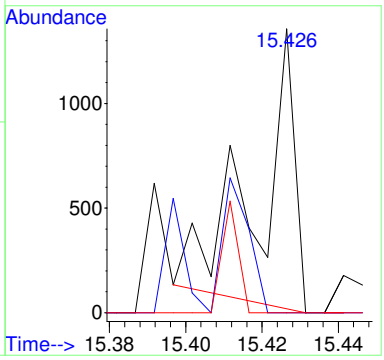


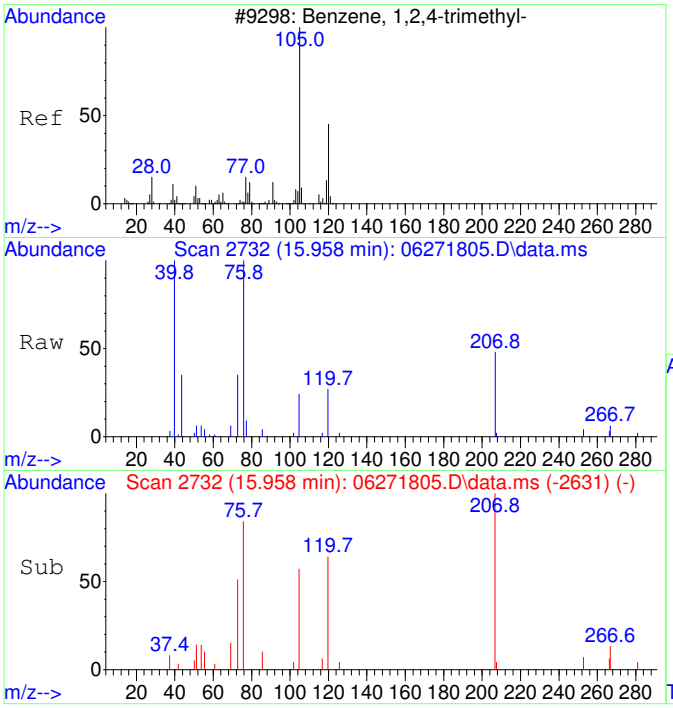


#46
1,3,5-Trimethylbenzene SCAN
Concen: 39.04 ug/L
RT: 15.426 min Scan# 2625
Delta R.T. 0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 882

Ion	Ratio	Lower	Upper
105	100		
120	35.3	16.8	76.8
119	18.0	0.0	41.5

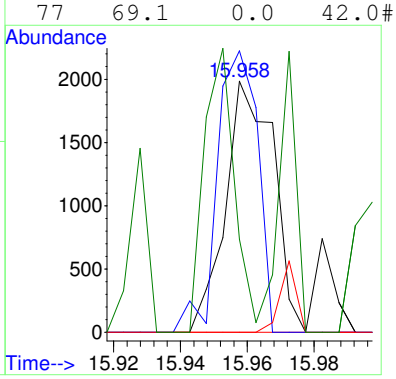


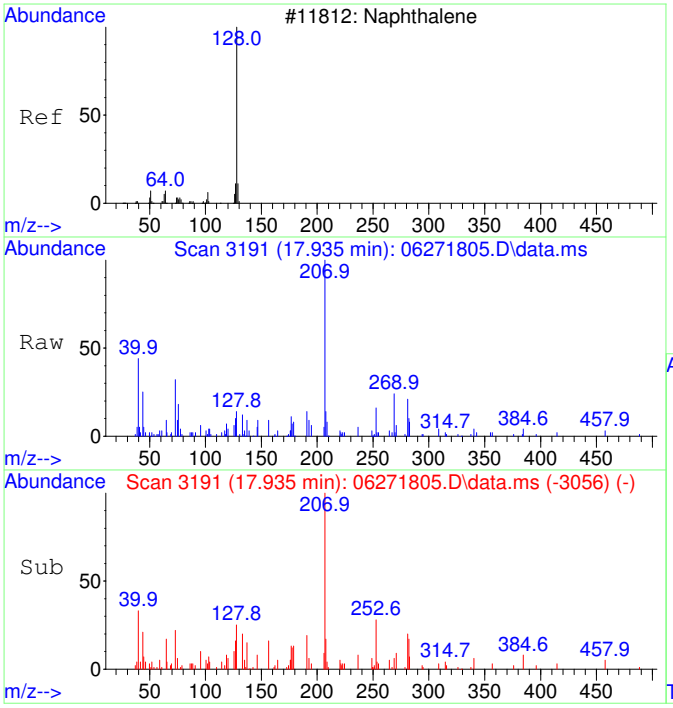


#47
1,2,4-Trimethylbenzene SCAN
Concen: 85.69 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 1984

Ion	Ratio	Lower	Upper
105	100		
120	94.1	15.4	75.4#
119	0.0	0.0	41.7
77	69.1	0.0	42.0#

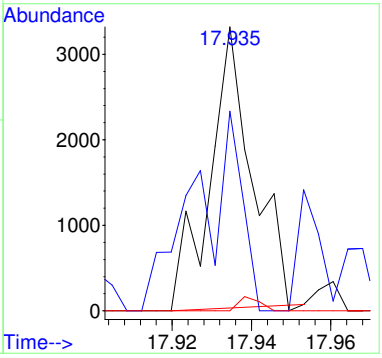




#48
Naphthalene SCAN
Concen: 74.50 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. -0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:128 Resp: 2461

Ion	Ratio	Lower	Upper
128	100		
127	32.3	0.0	43.9
129	2.5	0.0	40.5



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271805.D
Acq On : 27 Jun 2018 11:06
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

M.I. Performed By:
TD at 11:37 am, Jun 27, 2018

M.I. Approved By:
ZR at 11:08 am, Jul 02, 2018

Quant Time: Jun 27 11:25:05 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Jun 14 17:09:21 2018
Response via : Initial Calibration

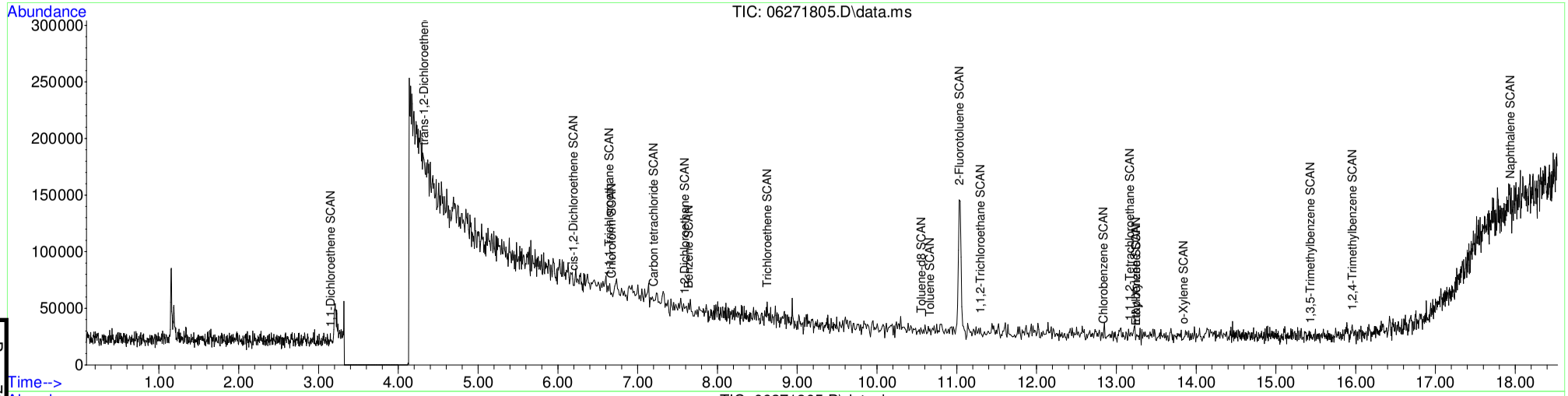
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	184385	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	1590	53.09 ug/L	-0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.06%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	348m	45.04 ug/L	
3] trans-1,2-Dichloroethene	4.309	61	412	49.97 ug/L	72
4] 1,1-Dichloroethane	5.066	63	527	51.35 ug/L	84
5] cis-1,2-Dichloroethene	6.101	61	502	49.59 ug/L	92
6] Chloroform	6.676	83	688	63.12 ug/L	92
7] 1,1,1-Trichloroethane	6.944	97	570	53.13 ug/L	87
8] Carbon tetrachloride	7.211	117	525	51.66 ug/L	97
9] Benzene	7.540	78	2452	82.82 ug/L	65
10] 1,2-Dichloroethane	7.588	62	450	47.16 ug/L	67
11] Trichloroethene	8.624	130	438	53.83 ug/L	91
13] Toluene	10.645	91	2406	59.92 ug/L	96
14] 1,1,2-Trichloroethane	11.295	97	434	52.29 ug/L	71
15] Tetrachloroethene	11.495	166	621	54.89 ug/L	92
16] Chlorobenzene	12.837	112	1510	52.69 ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.980	131	533	54.80 ug/L #	65
18] Ethylbenzene	13.035	91	2602	54.00 ug/L	93
19] m&p-Xylene	13.234	91	3918	105.34 ug/L	96
20] o-Xylene	13.846	91	2185	55.47 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.947	83	927	54.64 ug/L	98
22] 1,3,5-Trimethylbenzene	15.413	105	2396	53.76 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	2509	56.28 ug/L	98
24] Naphthalene	17.936	128	4394	60.06 ug/L	92
25) 2-Fluorotoluene SCAN	11.032	109	111042	5168.16 ug/L	95
26) 1,1-Dichloroethene SCAN	3.152	61	140	26.11 ug/L #	30
27) trans-1,2-Dichloroethe...	4.321	61	131	20.99 ug/L #	23
29) cis-1,2-Dichloroethene...	6.193	61	331	48.20 ug/L #	44
30) Chloroform SCAN	6.675	83	914	108.43 ug/L #	38
31) 1,1,1-Trichloroethane ...	6.638	97	999	133.14 ug/L #	26
32) Carbon tetrachloride SCAN	7.198	117	291	39.36 ug/L #	13
33) Benzene SCAN	7.636	78	9476	423.48 ug/L	65
34) 1,2-Dichloroethane SCAN	7.587	62	1429	187.26 ug/L #	29
35) Trichloroethene SCAN	8.623	130	307	56.07 ug/L #	16
36) Toluene-d8 SCAN	10.549	98	1651	85.00 ug/L #	15
37) Toluene SCAN	10.654	91	1703	68.64 ug/L #	41
38) 1,1,2-Trichloroethane ...	11.294	97	127	26.71 ug/L #	1
40) Chlorobenzene SCAN	12.836	112	358	23.79 ug/L #	34
41) 1,1,1,2-Tetrachloroeth...	13.161	131	489	91.02 ug/L #	13
42) Ethylbenzene SCAN	13.241	91	4742	164.43 ug/L	72
43) m&p-Xylene SCAN	13.241	91	4742	118.46 ug/L #	65
44) o-Xylene SCAN	13.844	91	1637	71.85 ug/L #	45
46) 1,3,5-Trimethylbenzene...	15.426	105	882	39.04 ug/L	83
47) 1,2,4-Trimethylbenzene...	15.958	105	1984	85.69 ug/L #	21
48) Naphthalene SCAN	17.935	128	2461	74.50 ug/L	65

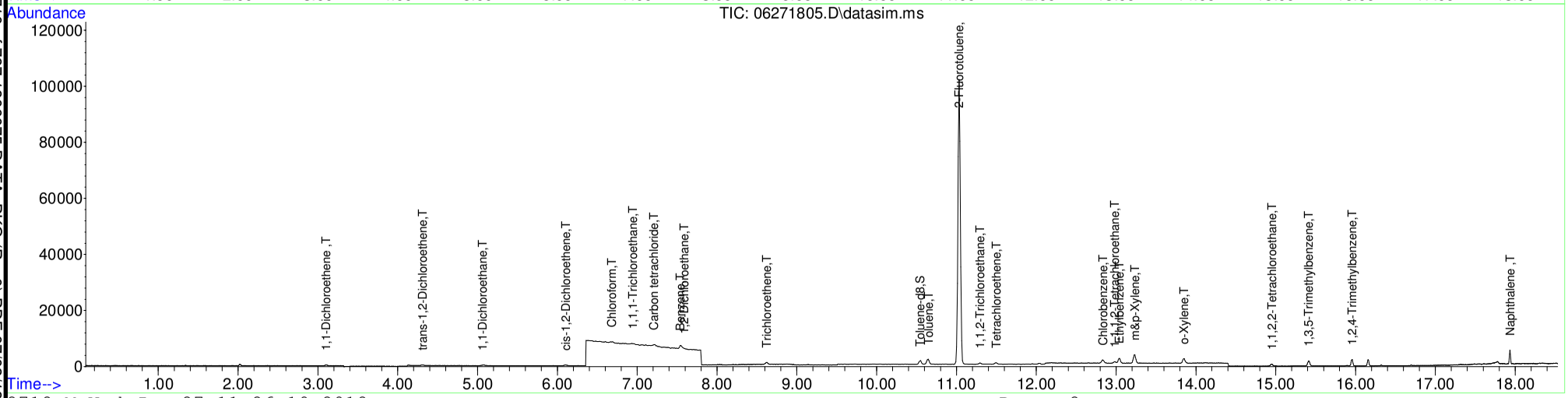
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\062718\
Data File : 06271805.D
Acq On : 27 Jun 2018 11:06
InstName : AG5975C
Operator : TD
Sample : S18F083-CRL2
Misc : 1823103 0.05 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 11:25:05 2018
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2018\062718.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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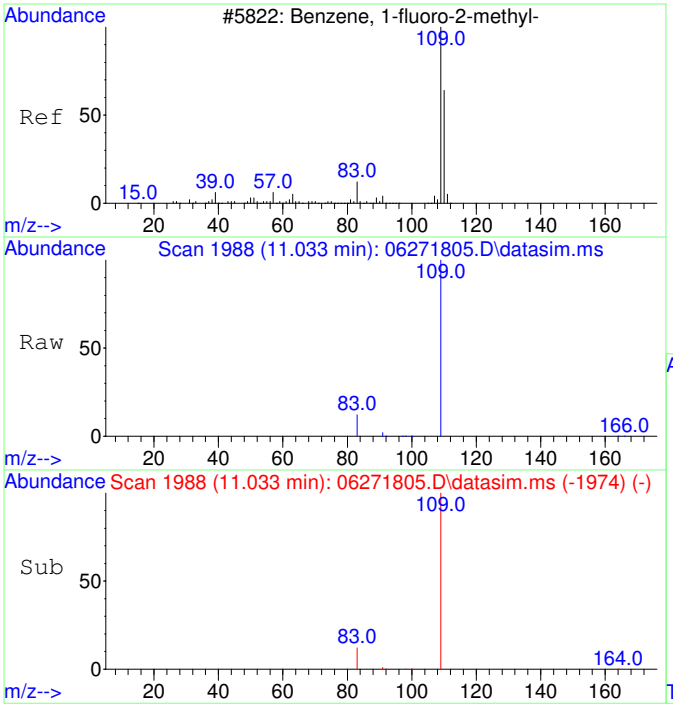
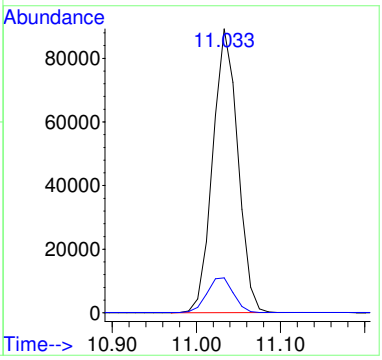
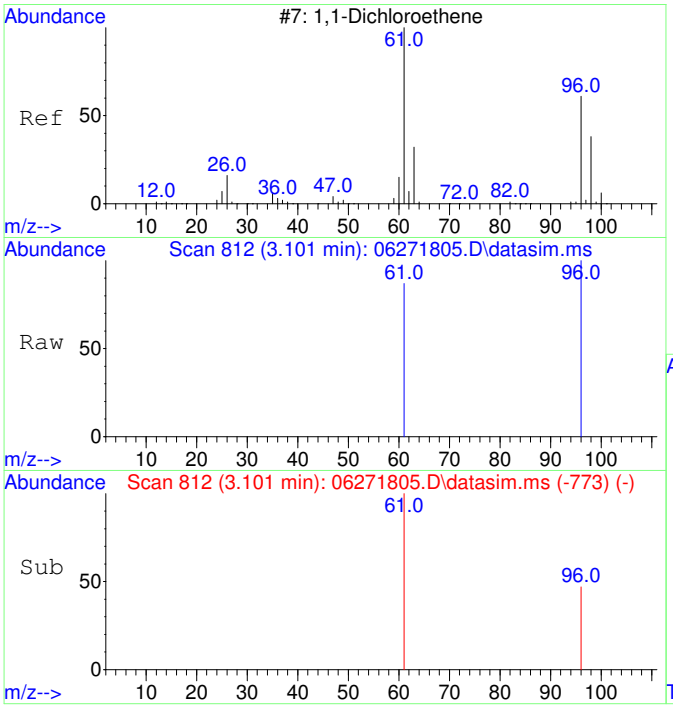


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:109 Resp: 184385

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.7

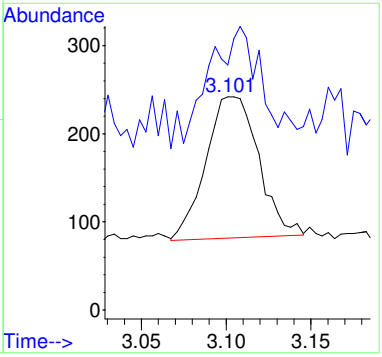


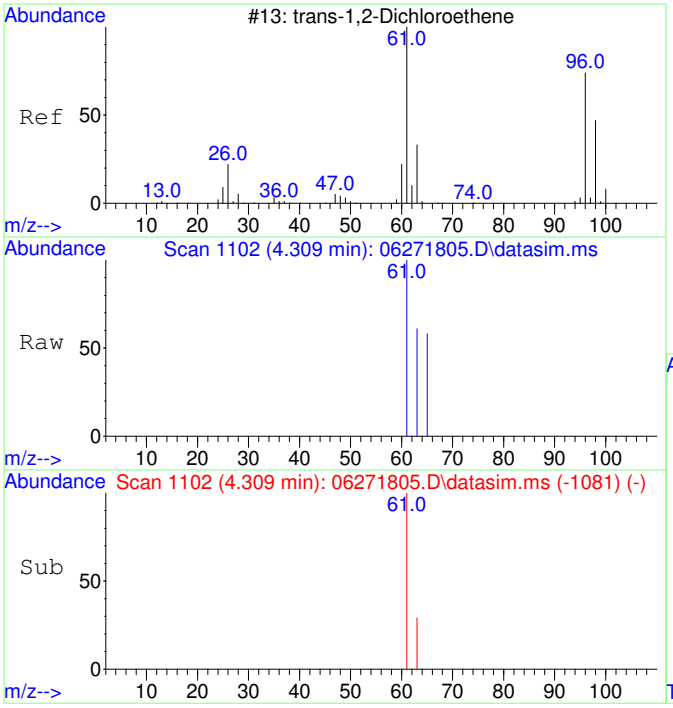


#2
1,1-Dichloroethene
Concen: 45.04 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. -0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 348

Ion	Ratio	Lower	Upper
61	100		
96	87.4	28.7	88.7

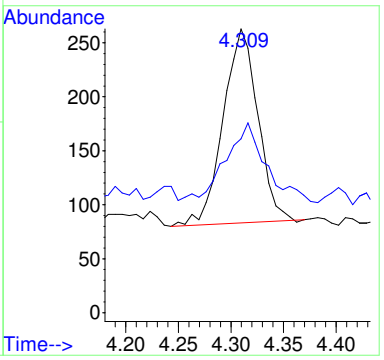


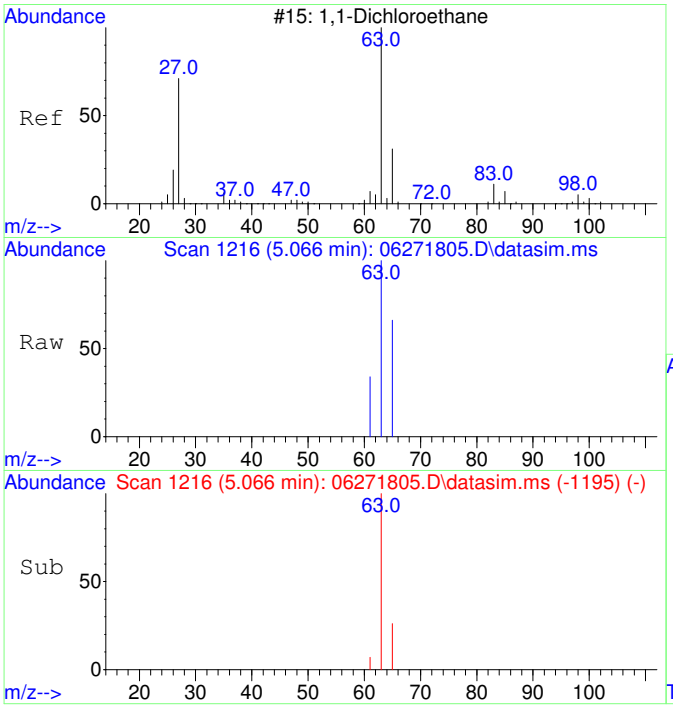


#3
trans-1,2-Dichloroethene
Concen: 49.97 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 412

Ion	Ratio	Lower	Upper
61	100		
63	47.8	2.0	62.0

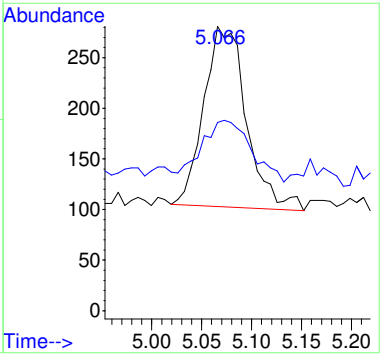


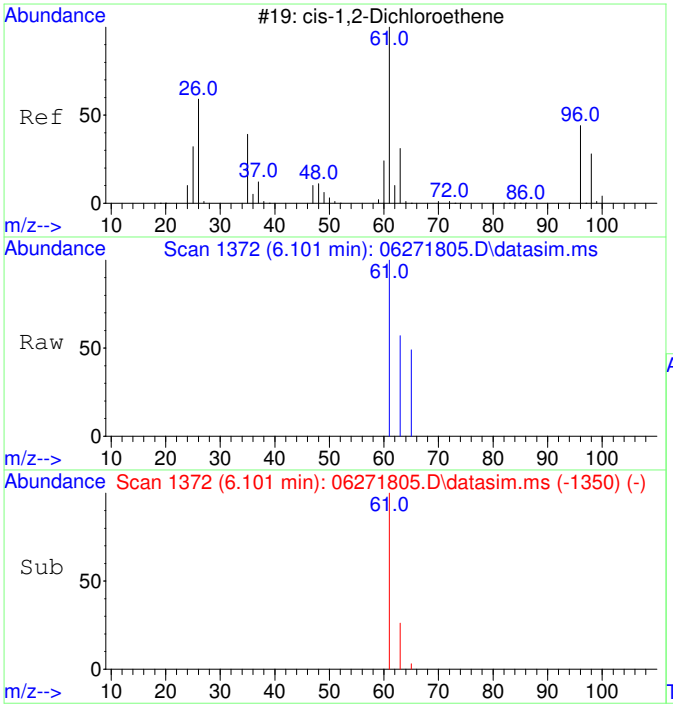


#4
1,1-Dichloroethane
Concen: 51.35 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 63 Resp: 527

Ion	Ratio	Lower	Upper
63	100		
65	40.4	1.5	61.5

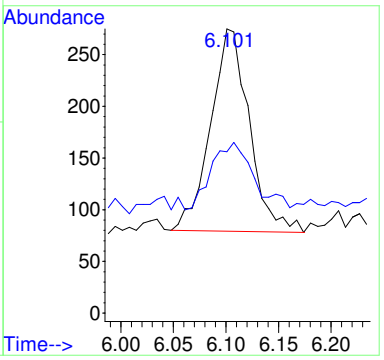


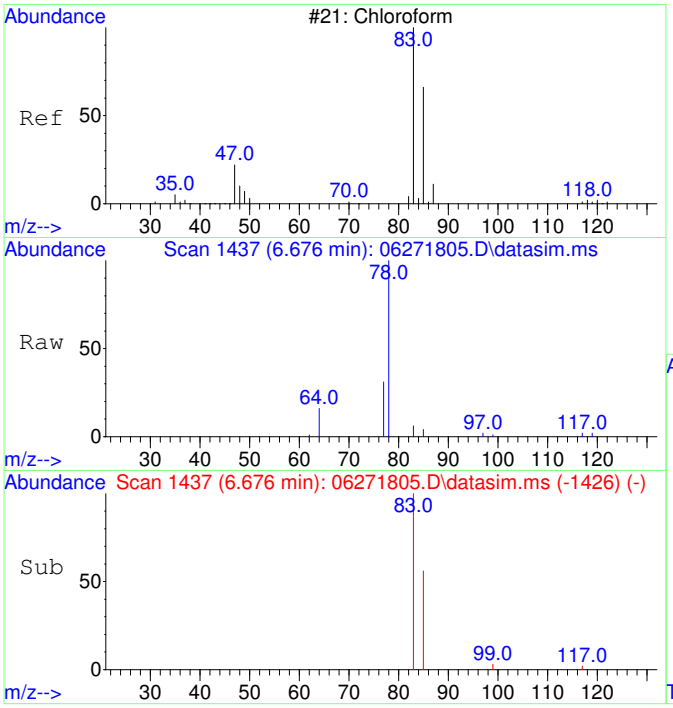


#5
cis-1,2-Dichloroethene
Concen: 49.59 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.007 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 502

Ion	Ratio	Lower	Upper
61	100		
63	36.9	2.2	62.2

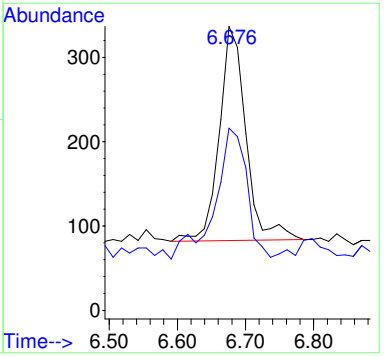


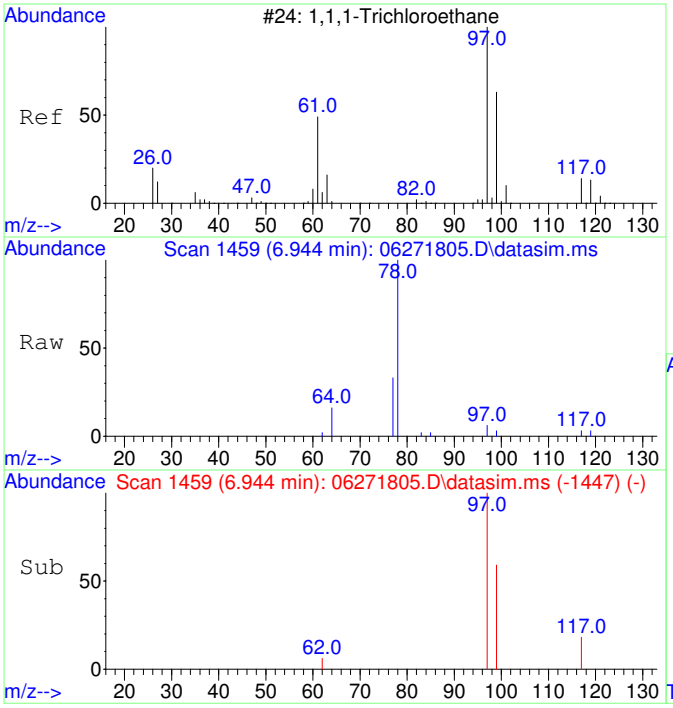


#6
Chloroform
Concen: 63.12 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 688

Ion	Ratio	Lower	Upper
83	100		
85	71.1	34.8	94.8

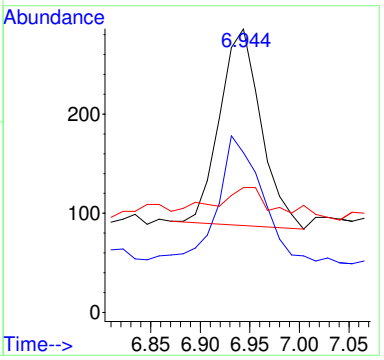


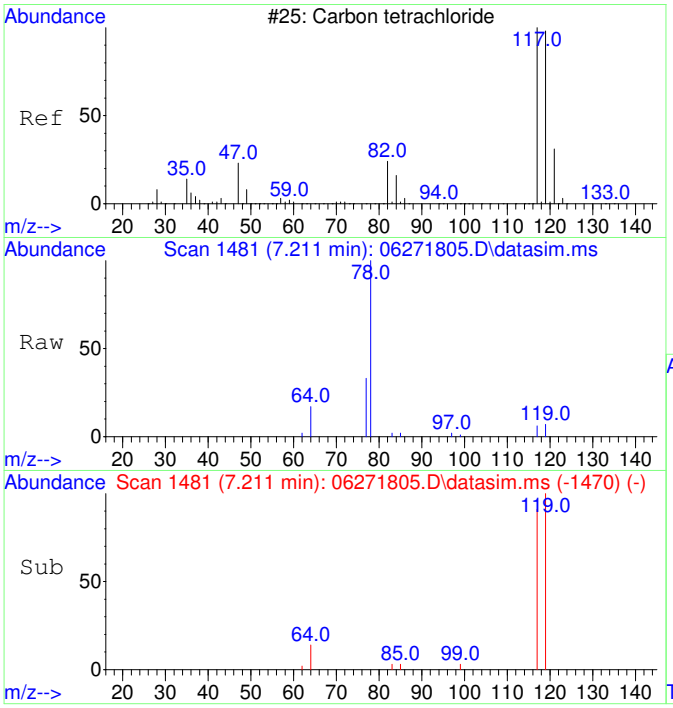


#7
1,1,1-Trichloroethane
Concen: 53.13 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 570

Ion	Ratio	Lower	Upper
97	100		
99	71.6	34.6	94.6
117	26.3	0.0	42.9

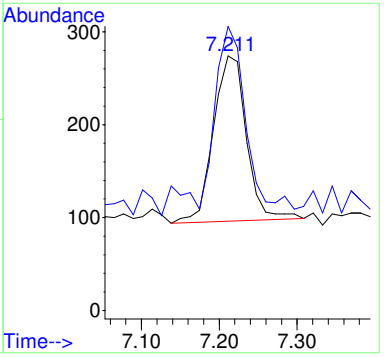


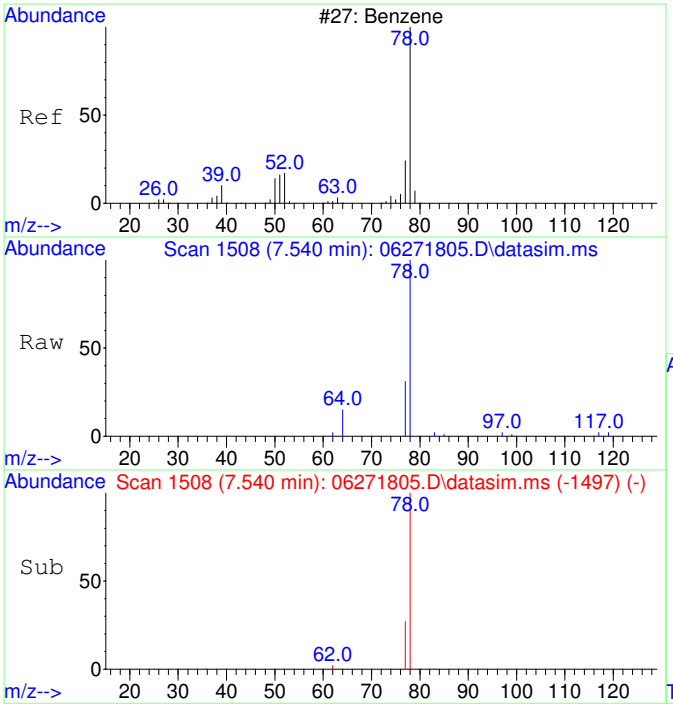


#8
Carbon tetrachloride
Concen: 51.66 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:117 Resp: 525

Ion	Ratio	Lower	Upper
117	100		
119	98.9	65.9	125.9

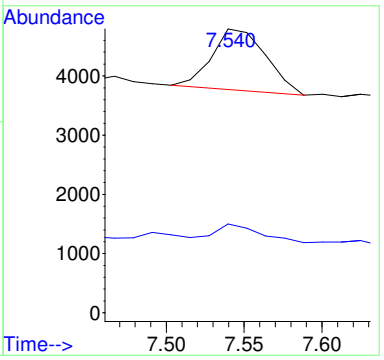


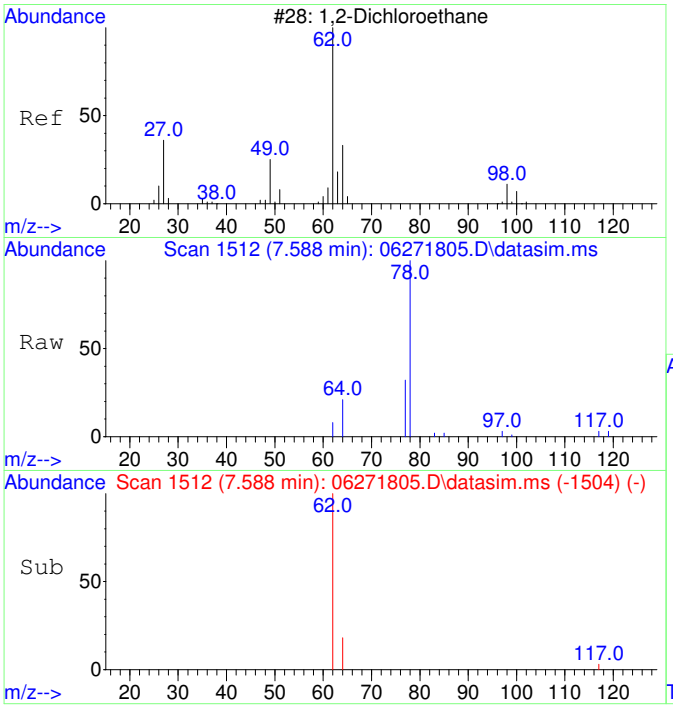


#9
Benzene
Concen: 82.82 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 78 Resp: 2452

Ion	Ratio	Lower	Upper
78	100		
77	40.1	0.0	53.0

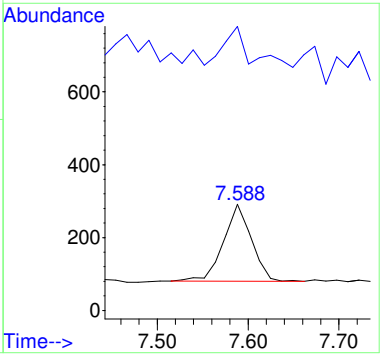


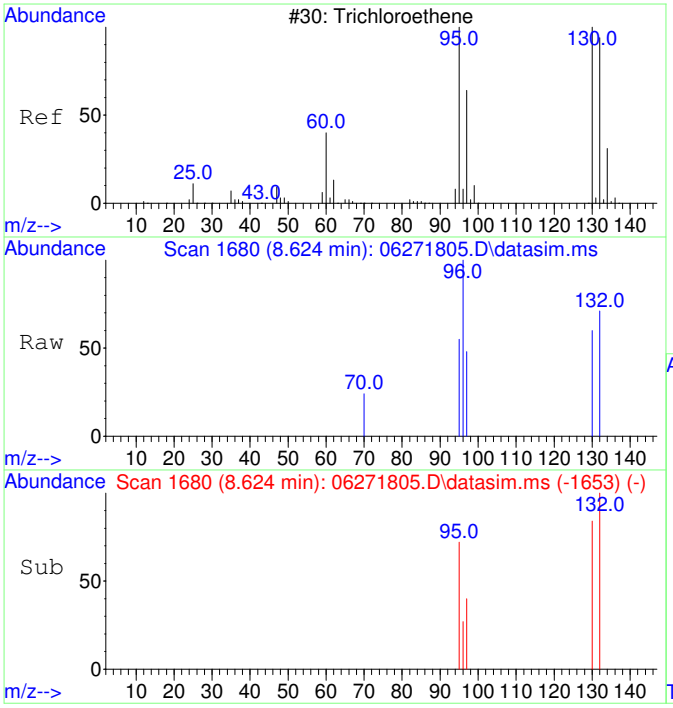


#10
1,2-Dichloroethane
Concen: 47.16 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 62 Resp: 450

Ion	Ratio	Lower	Upper
62	100		
64	50.7	2.3	62.3

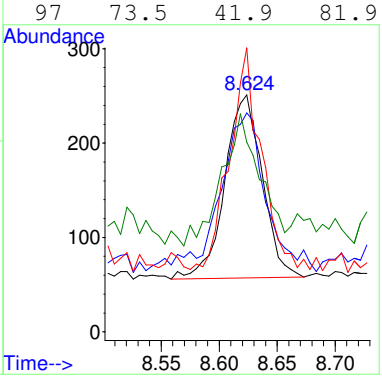


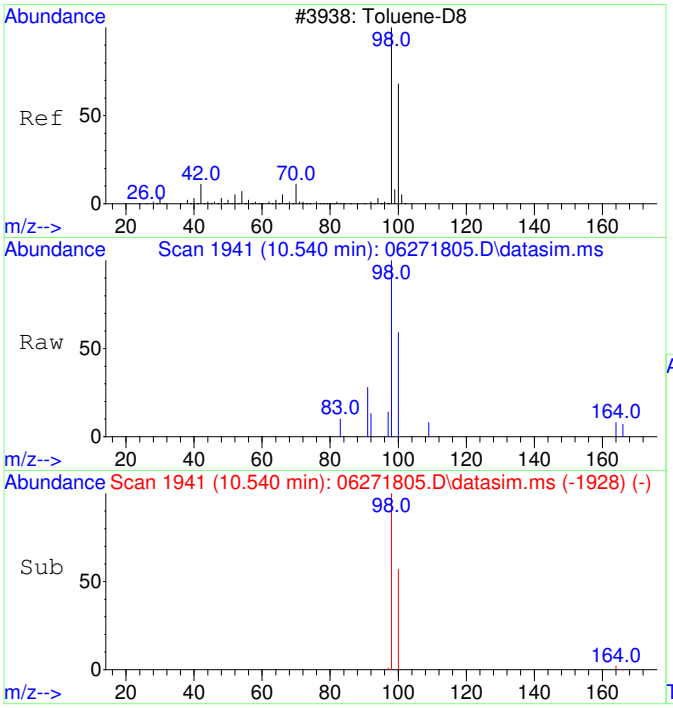


#11
Trichloroethene
Concen: 53.83 ug/L
RT: 8.624 min Scan# 1680
Delta R.T. -0.005 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:130 Resp: 438

Ion	Ratio	Lower	Upper
130	100		
95	105.7	66.0	126.0
132	102.3	78.8	118.8
97	73.5	41.9	81.9

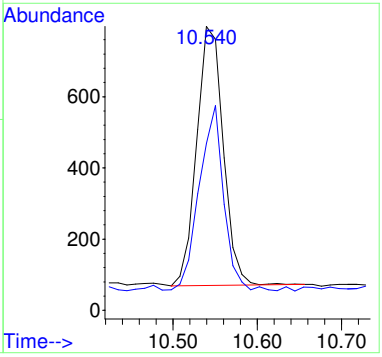


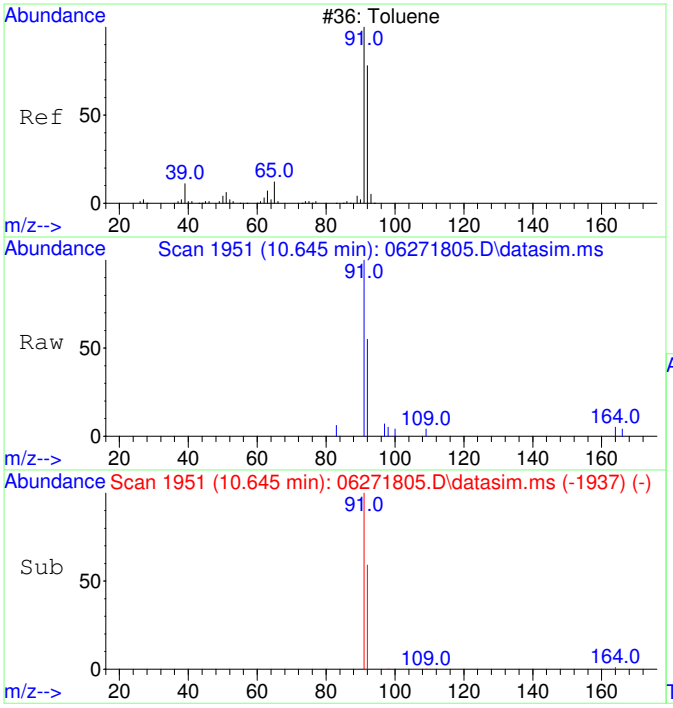


#12
Toluene-d8
Concen: 53.09 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 98 Resp: 1590

Ion	Ratio	Lower	Upper
98	100		
100	65.6	38.7	98.7

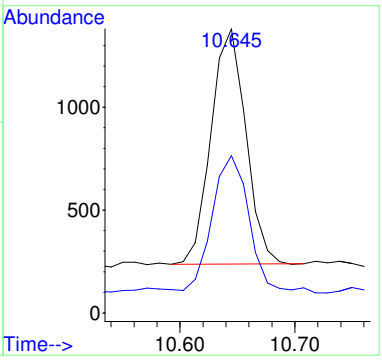


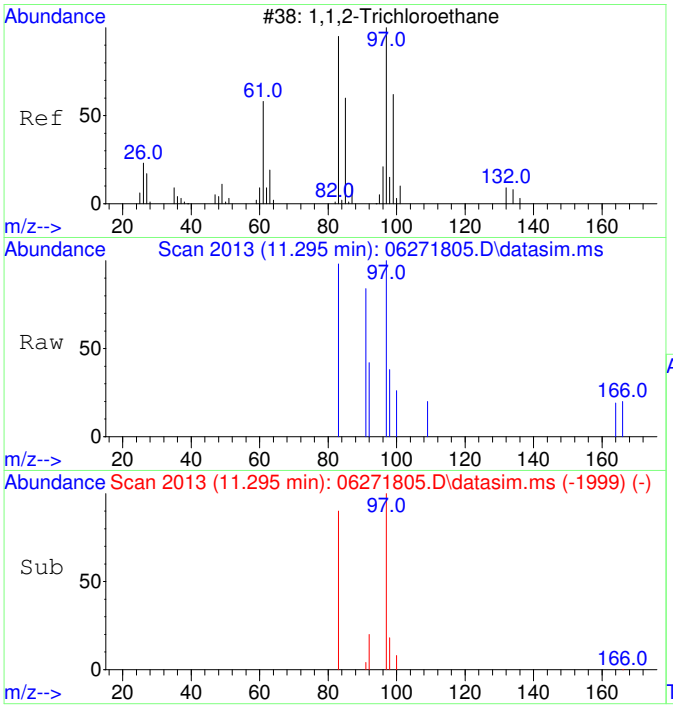


#13
Toluene
Concen: 59.92 ug/L
RT: 10.645 min Scan# 1951
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2406

Ion	Ratio	Lower	Upper
91	100		
92	63.2	30.0	90.0

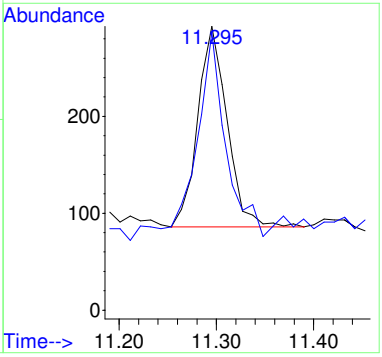


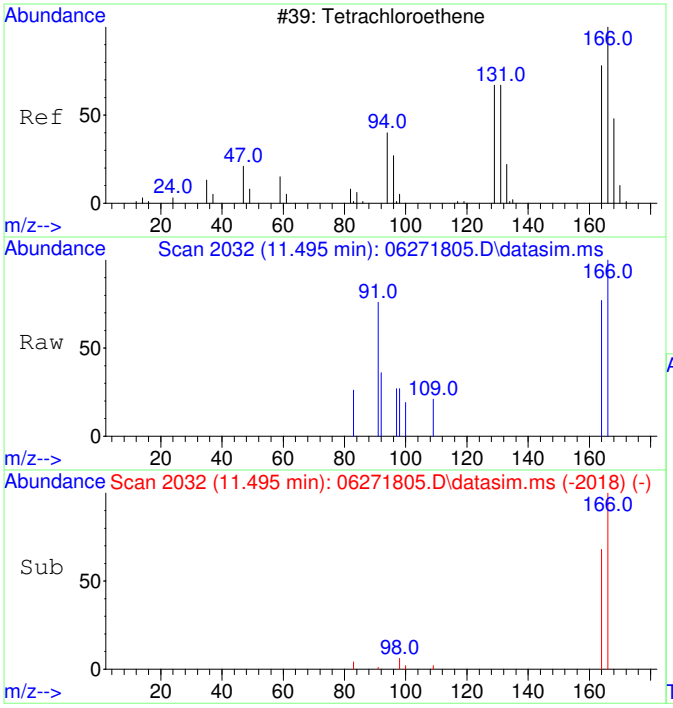


#14
1,1,2-Trichloroethane
Concen: 52.29 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 434

Ion	Ratio	Lower	Upper
97	100		
83	109.2	53.4	113.4

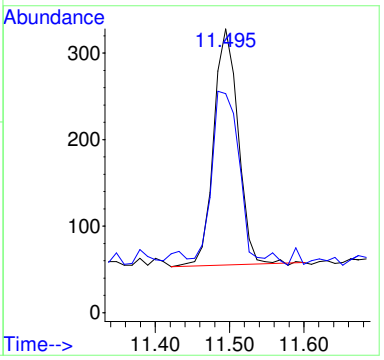


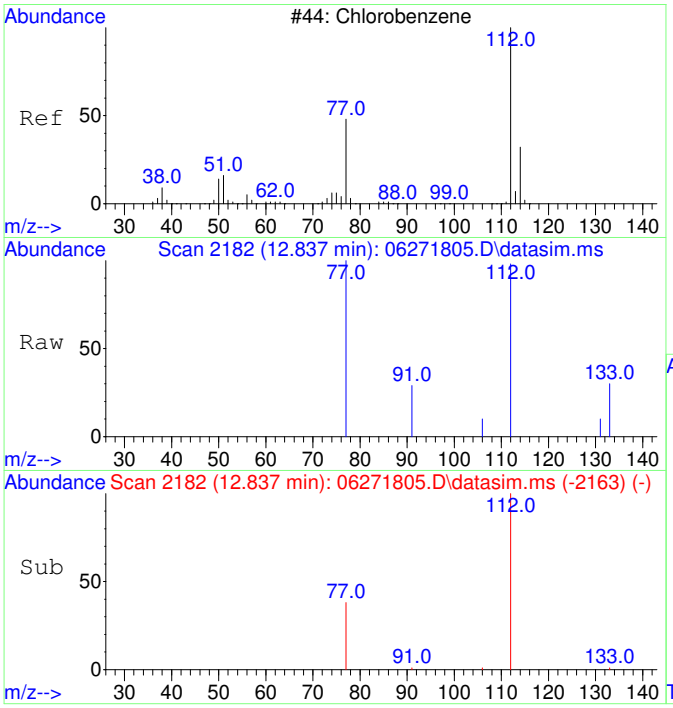


#15
Tetrachloroethene
Concen: 54.89 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:166 Resp: 621

Ion	Ratio	Lower	Upper
166	100		
164	84.9	47.8	107.8

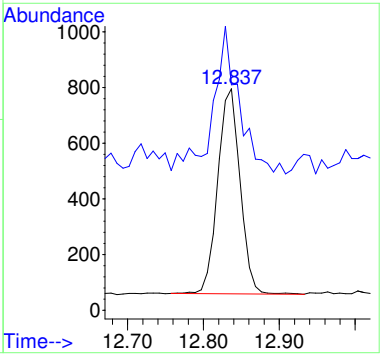


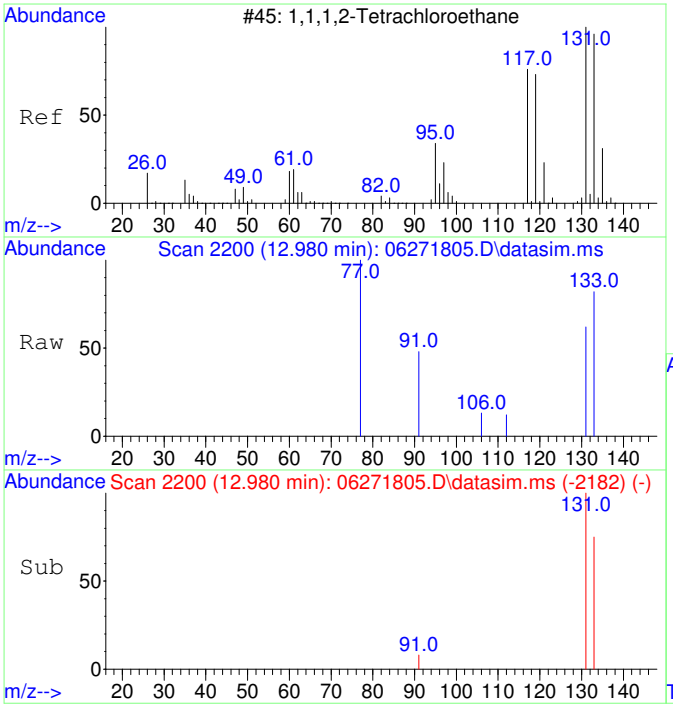


#16
Chlorobenzene
Concen: 52.69 ug/L
RT: 12.837 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:112 Resp: 1510

Ion	Ratio	Lower	Upper
112	100		
77	73.7	28.1	88.1

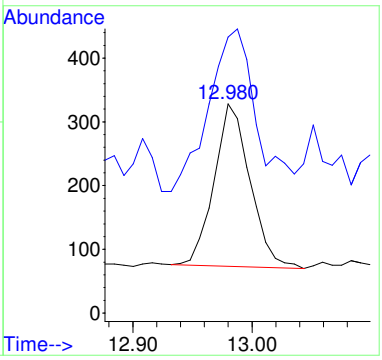


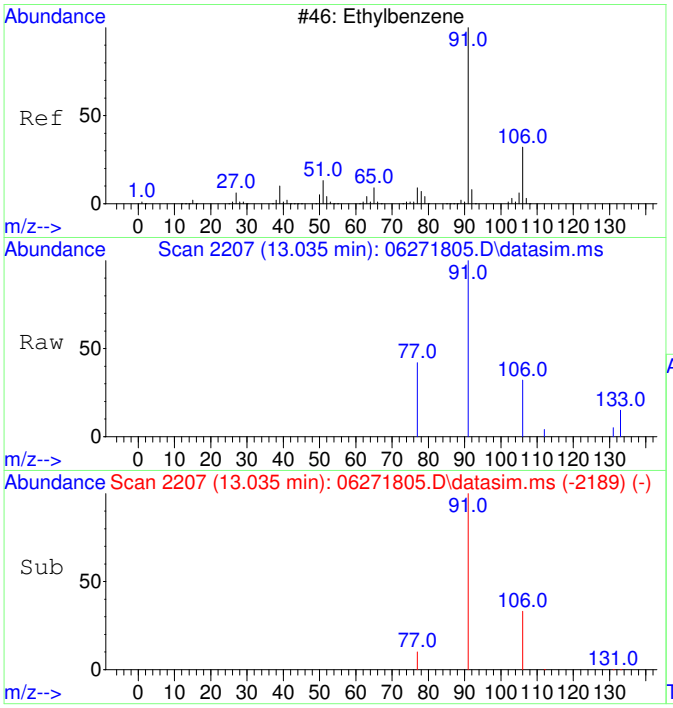


#17
1,1,1,2-Tetrachloroethane
Concen: 54.80 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:131 Resp: 533

Ion	Ratio	Lower	Upper
131	100		
133	130.6	66.2	126.2#

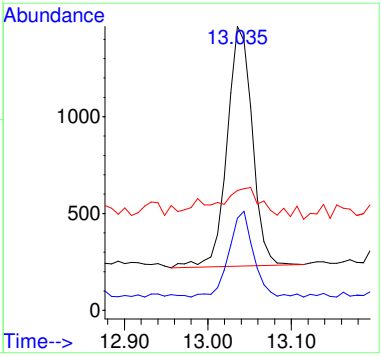


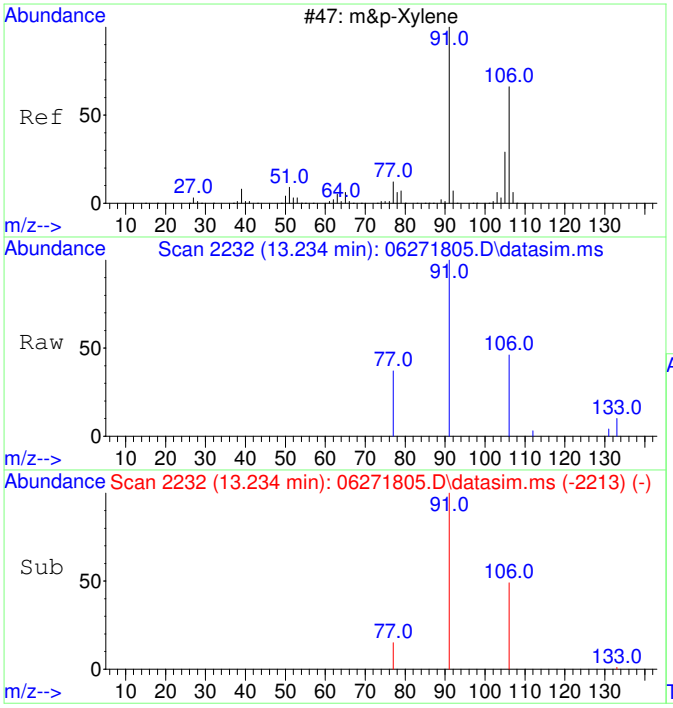


#18
Ethylbenzene
Concen: 54.00 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2602

Ion	Ratio	Lower	Upper
91	100		
106	34.6	2.8	62.8
77	16.3	0.0	38.6

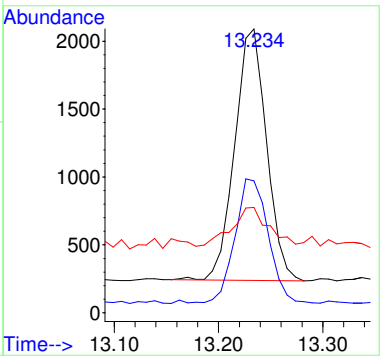


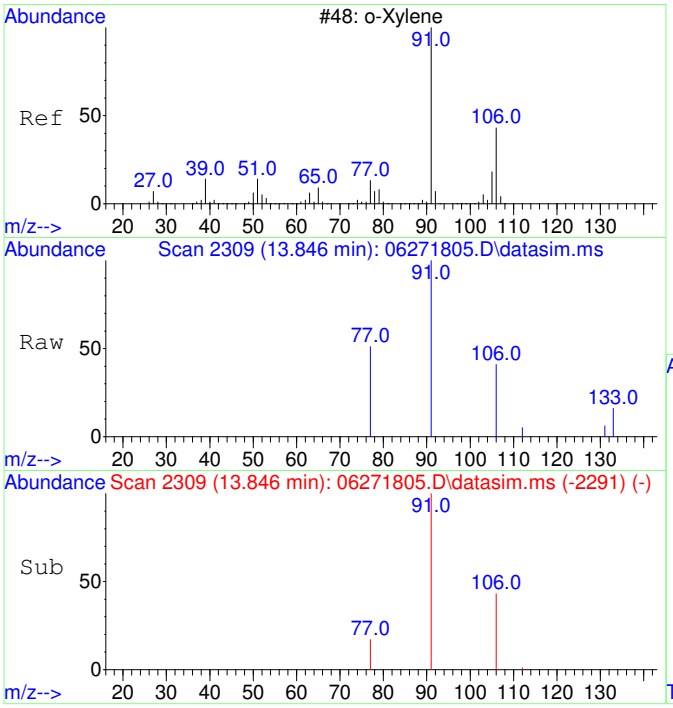


#19
m&p-Xylene
Concen: 105.34 ug/L
RT: 13.234 min Scan# 2232
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 3918

Ion	Ratio	Lower	Upper
91	100		
106	50.8	21.2	81.2
77	20.1	0.0	42.9

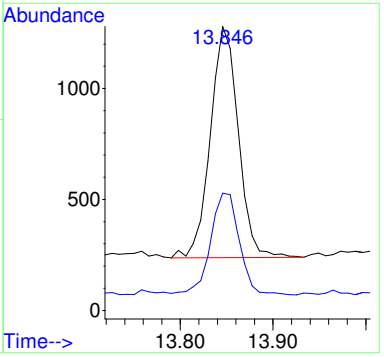


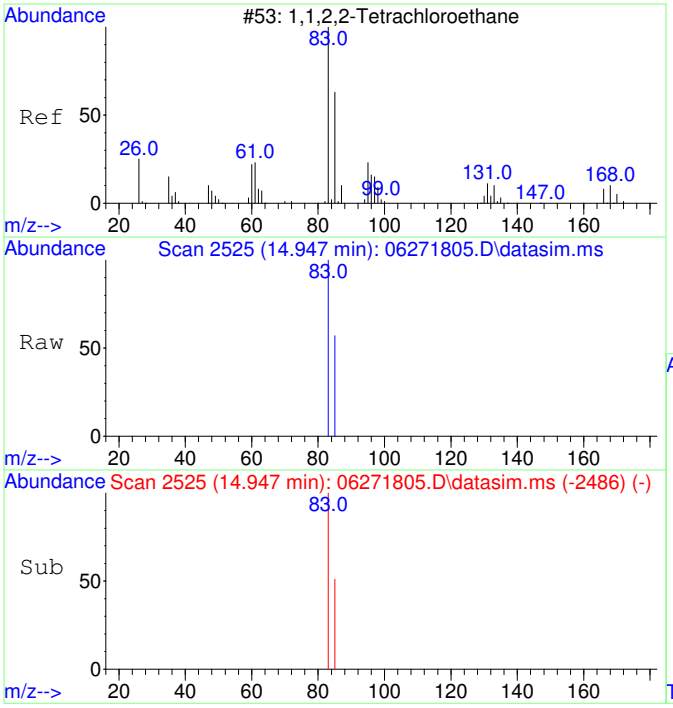


#20
o-Xylene
Concen: 55.47 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 2185

Ion	Ratio	Lower	Upper
91	100		
106	45.3	18.3	78.3

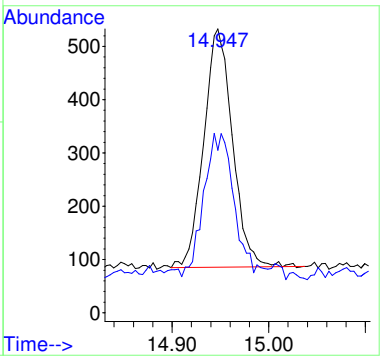


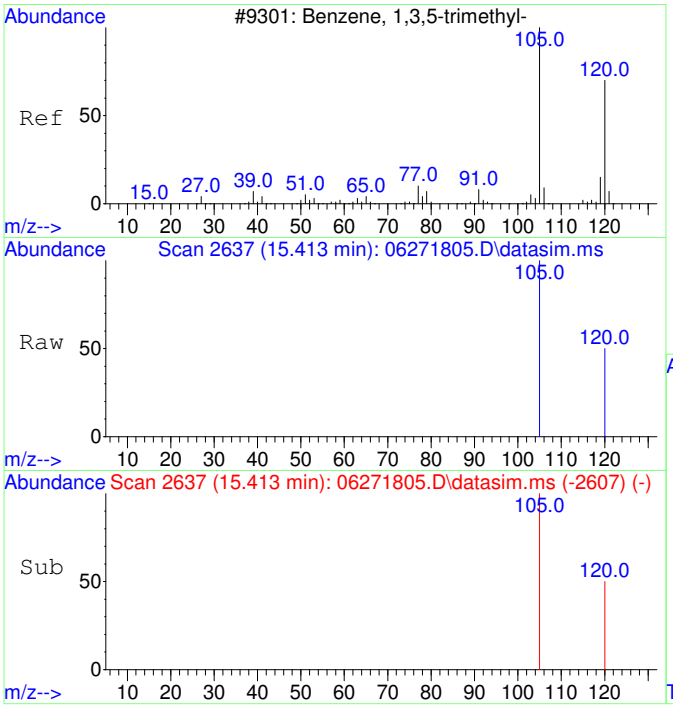


#21
1,1,2,2-Tetrachloroethane
Concen: 54.64 ug/L
RT: 14.947 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 927

Ion	Ratio	Lower	Upper
83	100		
85	63.2	34.4	94.4

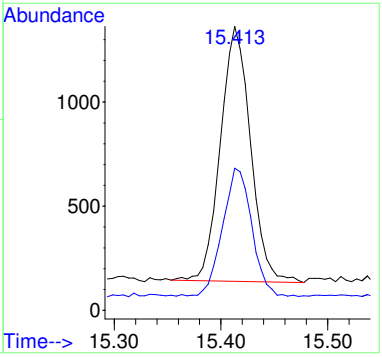


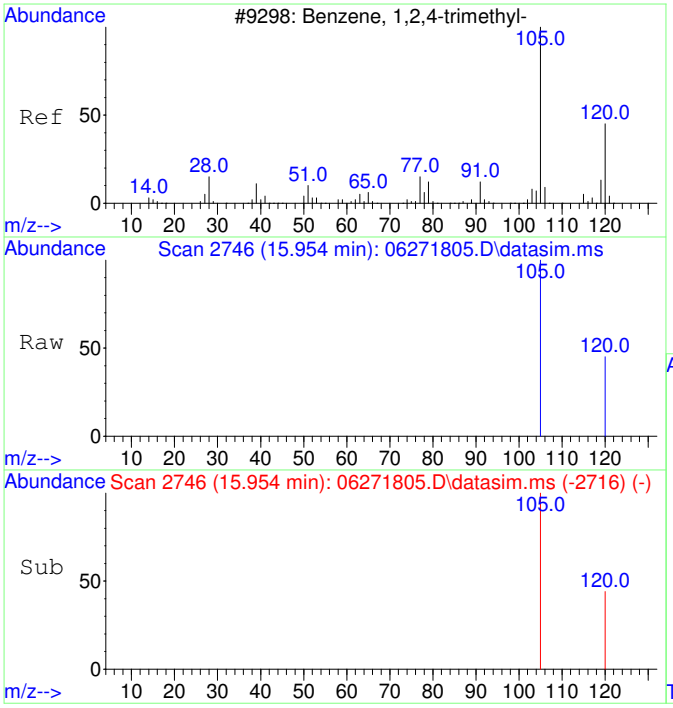


#22
1,3,5-Trimethylbenzene
Concen: 53.76 ug/L
RT: 15.413 min Scan# 2637
Delta R.T. -0.001 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 2396

Ion	Ratio	Lower	Upper
105	100		
120	48.5	19.1	79.1

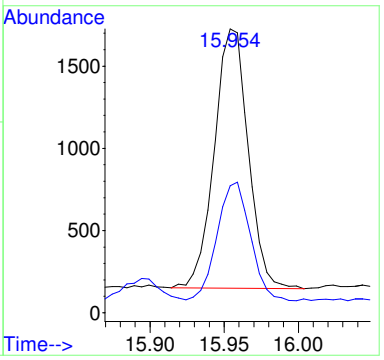


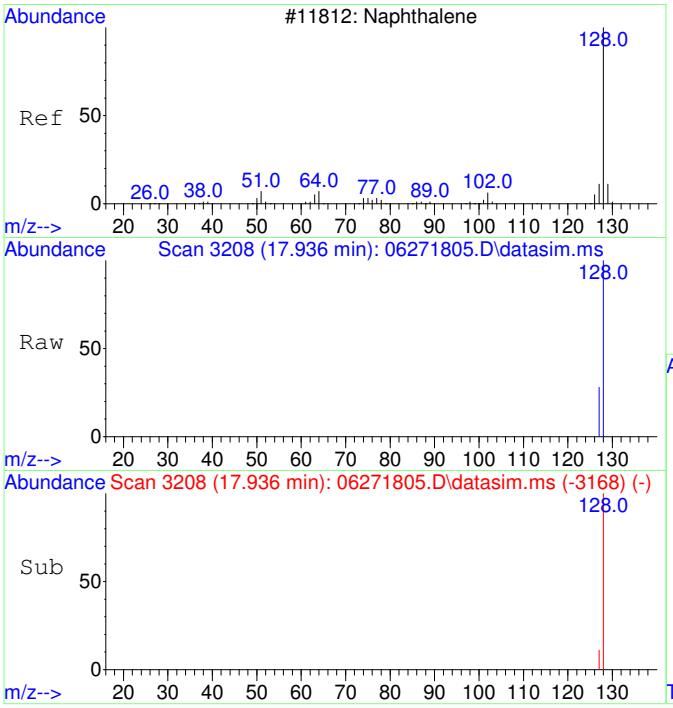


#23
1,2,4-Trimethylbenzene
Concen: 56.28 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. -0.001 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 2509

Ion	Ratio	Lower	Upper
105	100		
120	44.4	15.5	75.5

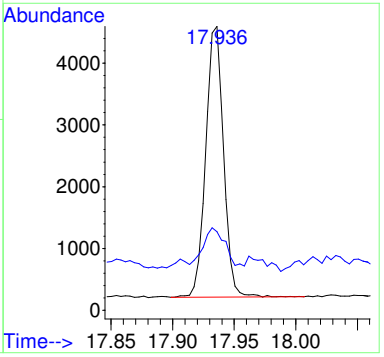


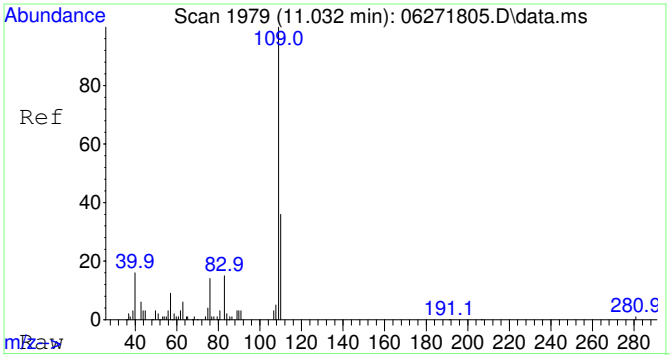


#24
Naphthalene
Concen: 60.06 ug/L
RT: 17.936 min Scan# 3208
Delta R.T. -0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:128 Resp: 4394

Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	42.5

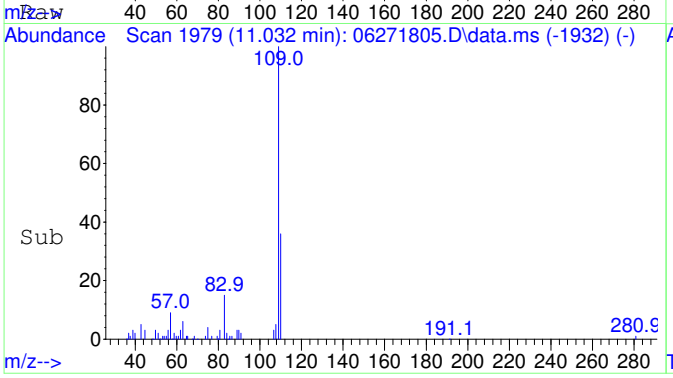


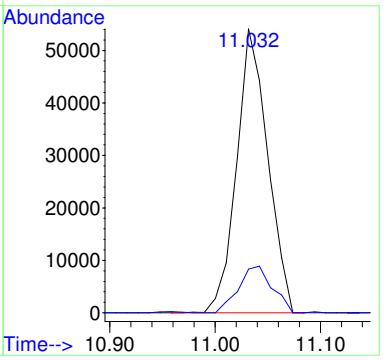


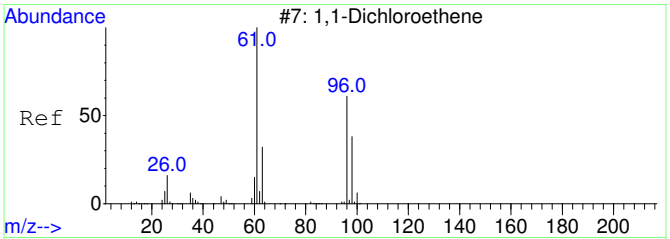
#25
2-Fluorotoluene SCAN
Concen: 5168.16 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:109 Resp: 111042

Ion	Ratio	Lower	Upper
109	100		
83	17.9	0.0	45.7



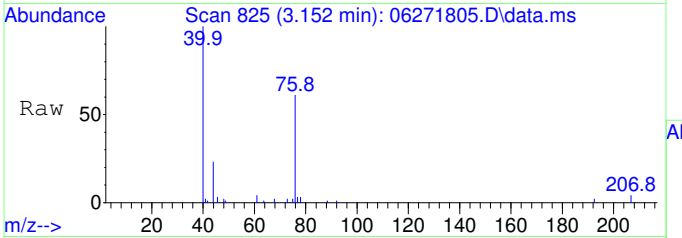


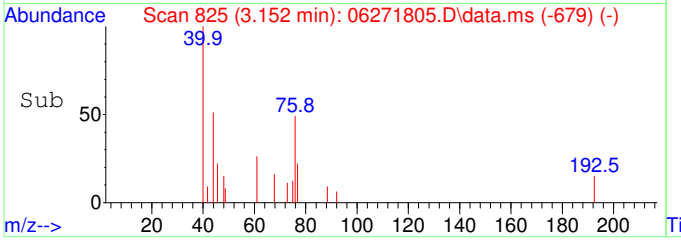


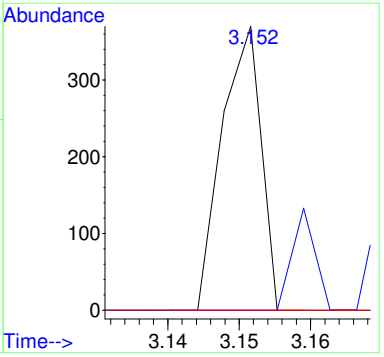
#26
1,1-Dichloroethene SCAN
Concen: 26.11 ug/L
RT: 3.152 min Scan# 825
Delta R.T. 0.041 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

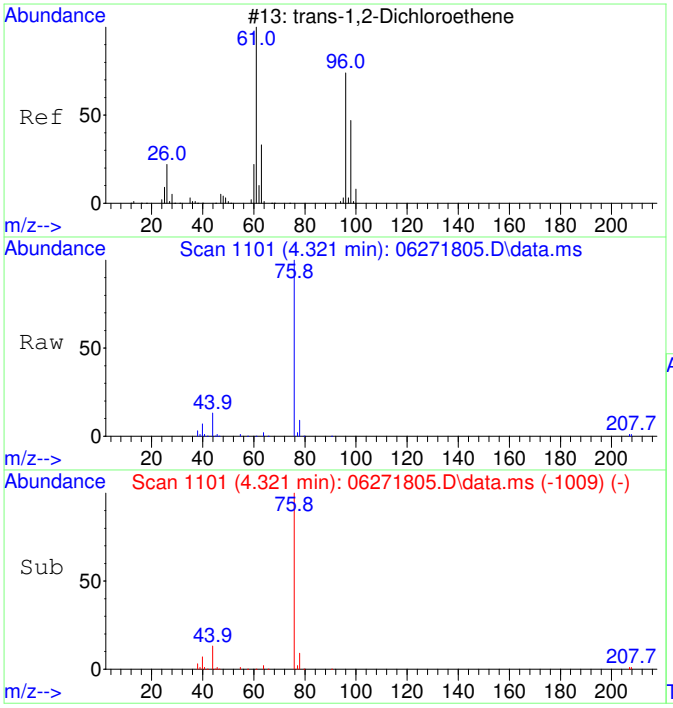
Tgt Ion: 61 Resp: 140

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





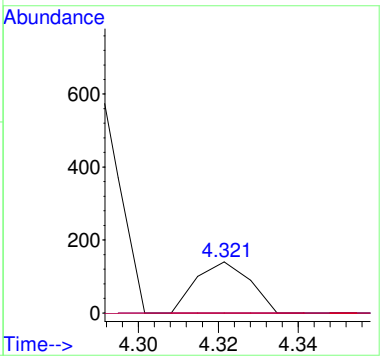


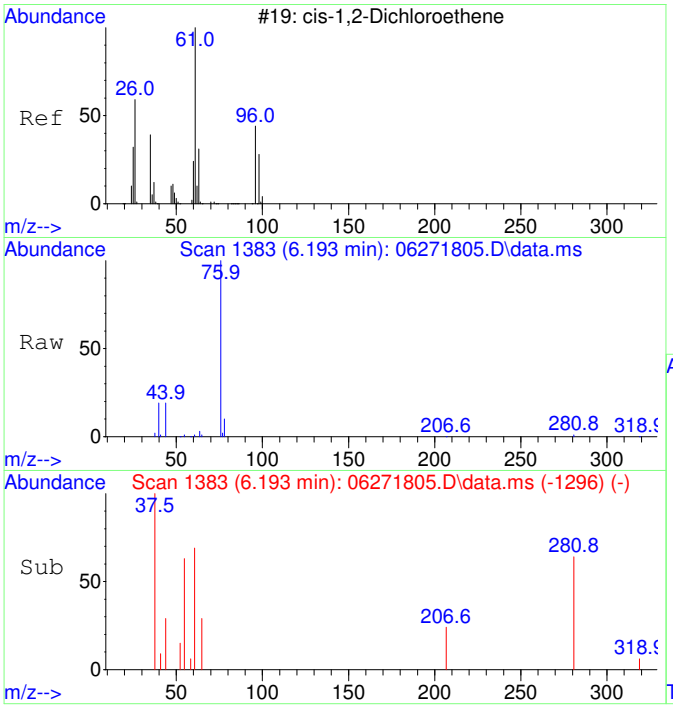


#27
trans-1,2-Dichloroethene SCAN
Concen: 20.99 ug/L
RT: 4.321 min Scan# 1101
Delta R.T. -0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

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#

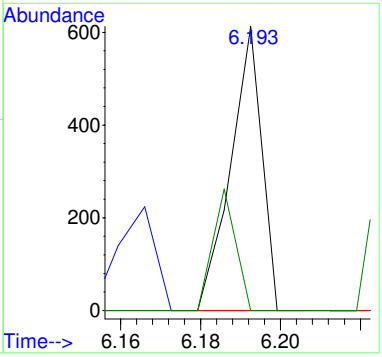


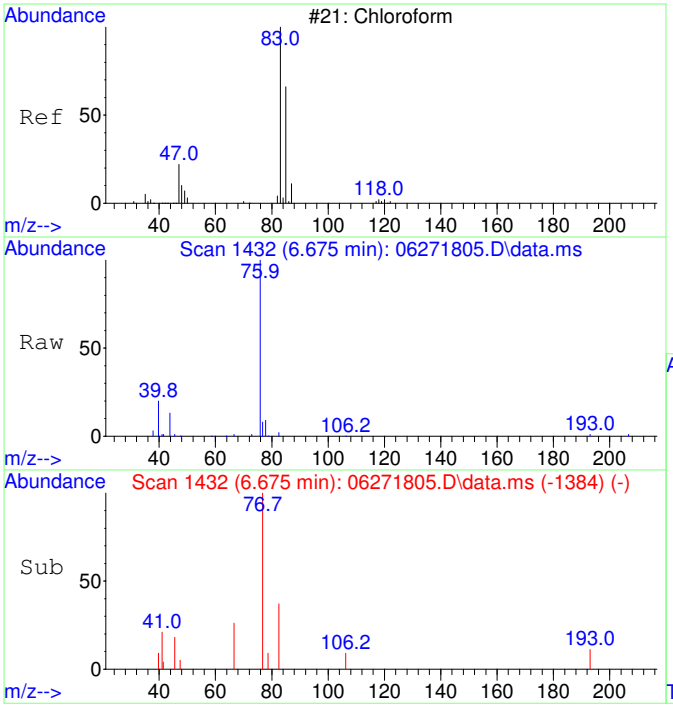


#29
cis-1,2-Dichloroethene SCAN
Concen: 48.20 ug/L
RT: 6.193 min Scan# 1383
Delta R.T. 0.080 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 61 Resp: 331

Ion	Ratio	Lower	Upper
61	100		
96	0.0	28.2	88.2#
98	0.0	14.1	74.1#
63	31.4	1.5	61.5

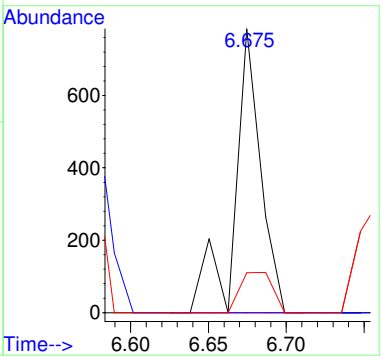


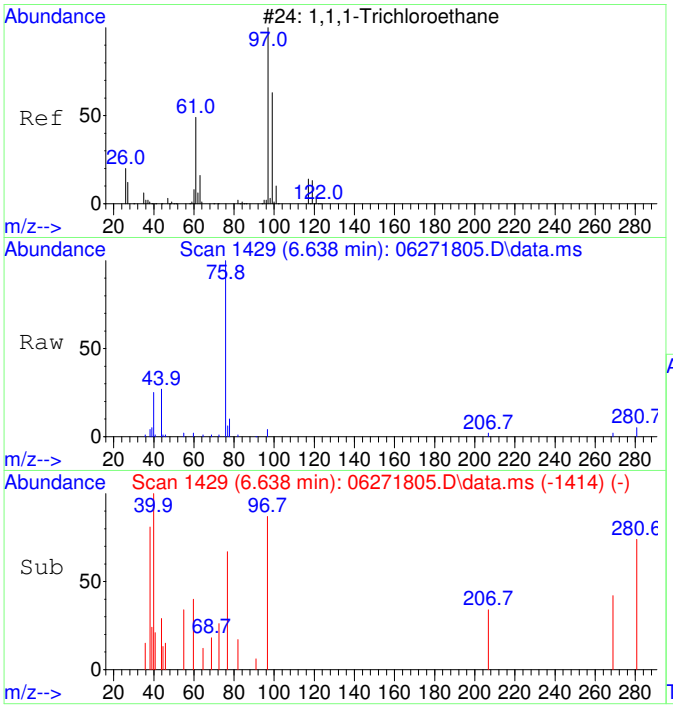


#30
Chloroform SCAN
Concen: 108.43 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.024 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 83 Resp: 914

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.6	92.6#
47	17.6	0.0	57.9

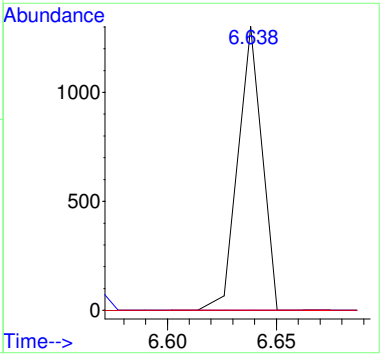


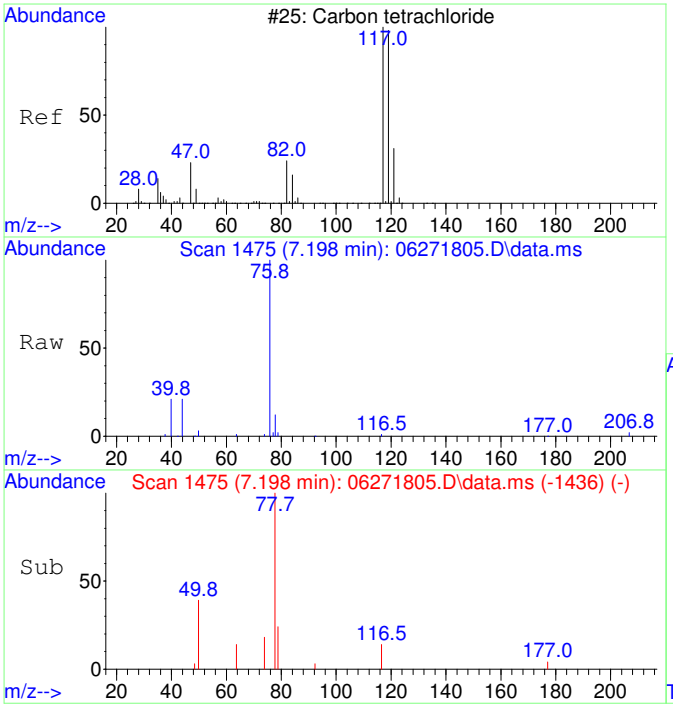


#31
1,1,1-Trichloroethane SCAN
Concen: 133.14 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.316 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 999

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

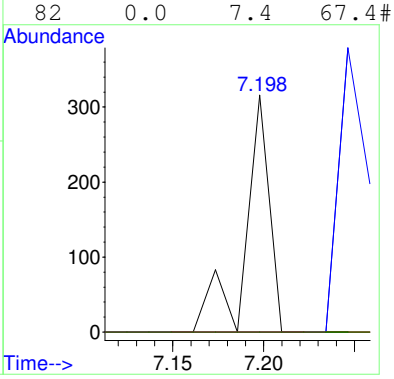


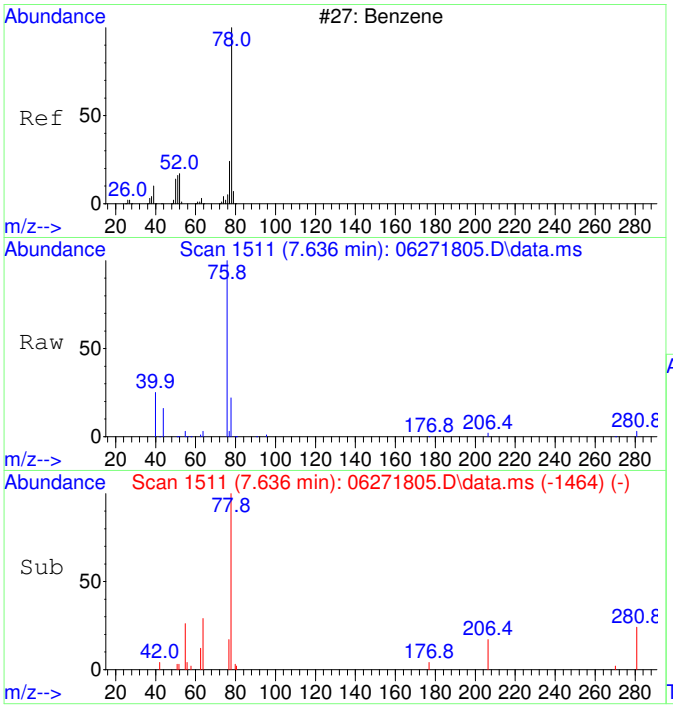


#32
Carbon tetrachloride SCAN
Concen: 39.36 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. -0.024 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:117 Resp: 291

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#

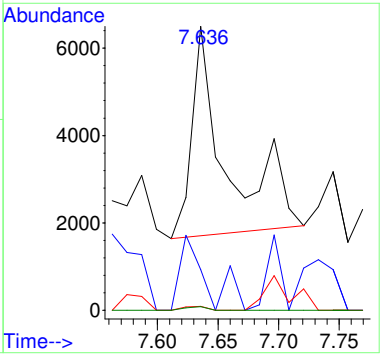


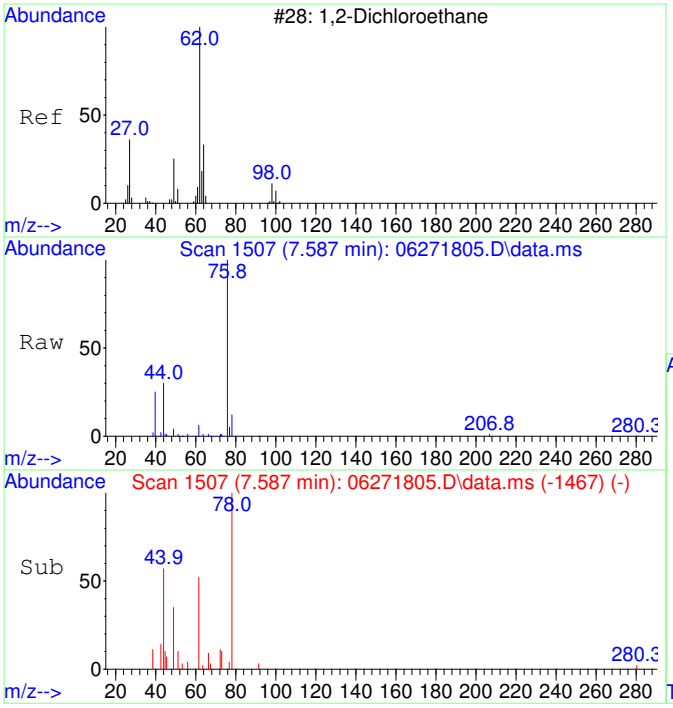


#33
Benzene SCAN
Concen: 423.48 ug/L
RT: 7.636 min Scan# 1511
Delta R.T. 0.073 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 78 Resp: 9476

Ion	Ratio	Lower	Upper
78	100		
77	20.4	3.0	63.0
51	1.3	0.0	56.4
52	1.1	0.0	48.0

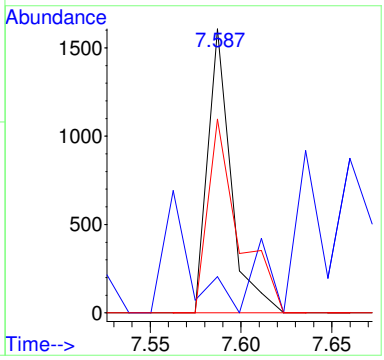


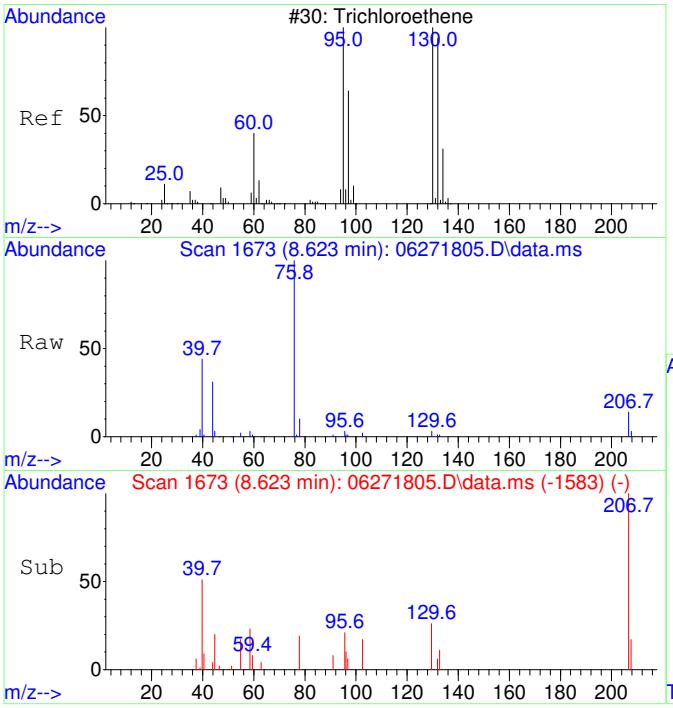


#34
1,2-Dichloroethane SCAN
Concen: 187.26 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. -0.012 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 62 Resp: 1429

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.2	61.2#
49	91.2	10.4	70.4#

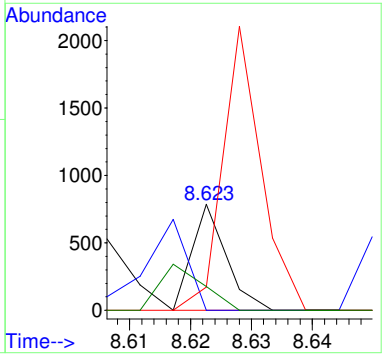


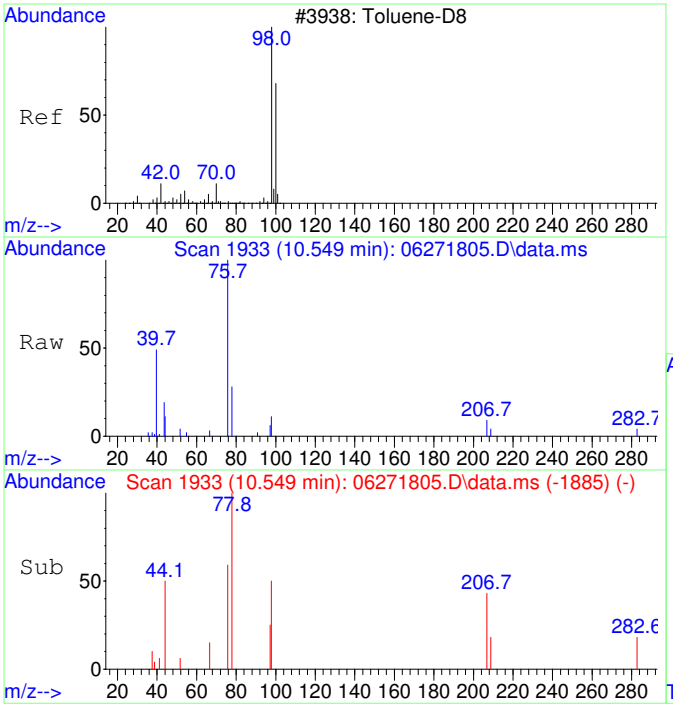


#35
Trichloroethene SCAN
Concen: 56.07 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:130 Resp: 307

Ion	Ratio	Lower	Upper
130	100		
95	109.1	70.5	130.5
132	299.7	63.8	123.8#
97	55.4	34.8	94.8

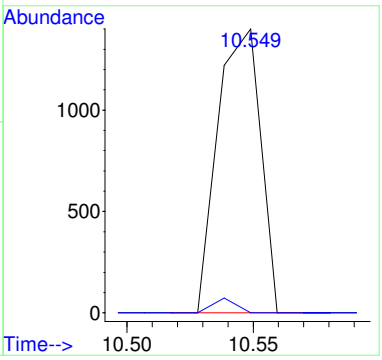


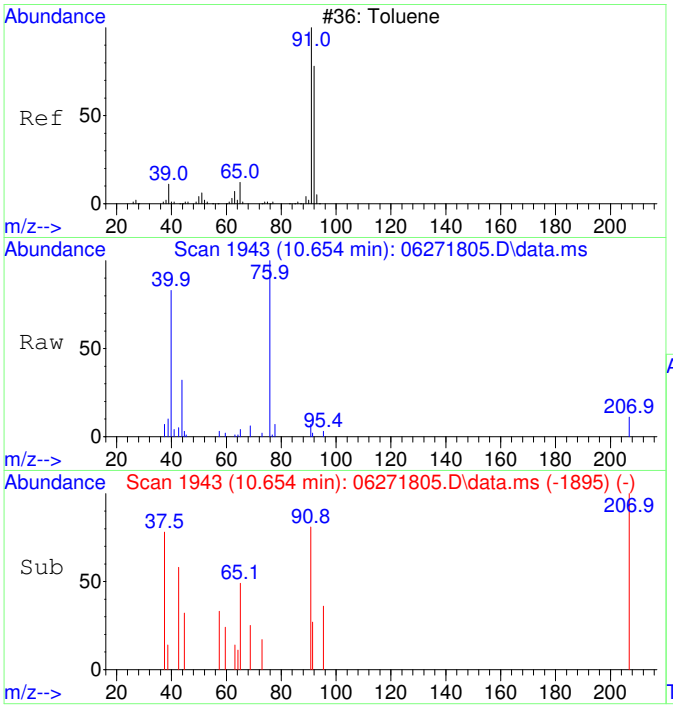


#36
Toluene-d8 SCAN
Concen: 85.00 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 98 Resp: 1651

Ion	Ratio	Lower	Upper
98	100		
100	0.0	39.5	99.5#

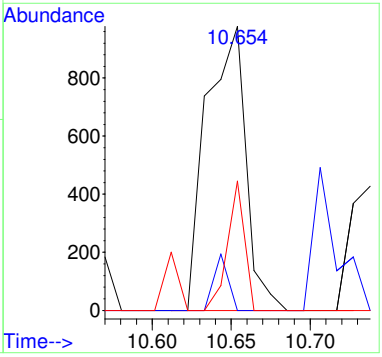


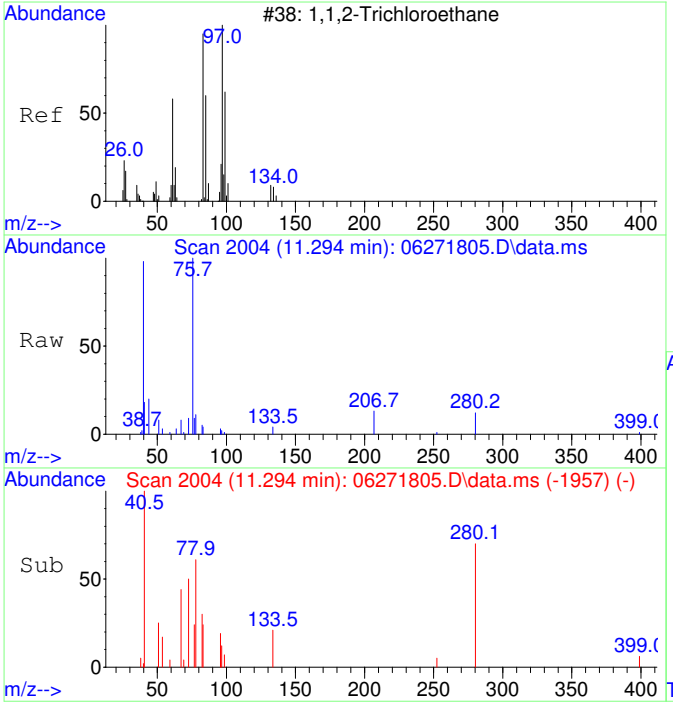


#37
Toluene SCAN
Concen: 68.64 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 1703

Ion	Ratio	Lower	Upper
91	100		
92	7.2	26.6	86.6#
65	19.6	0.0	42.3

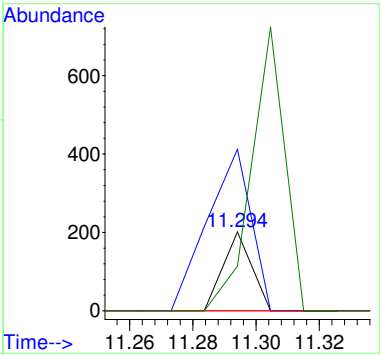


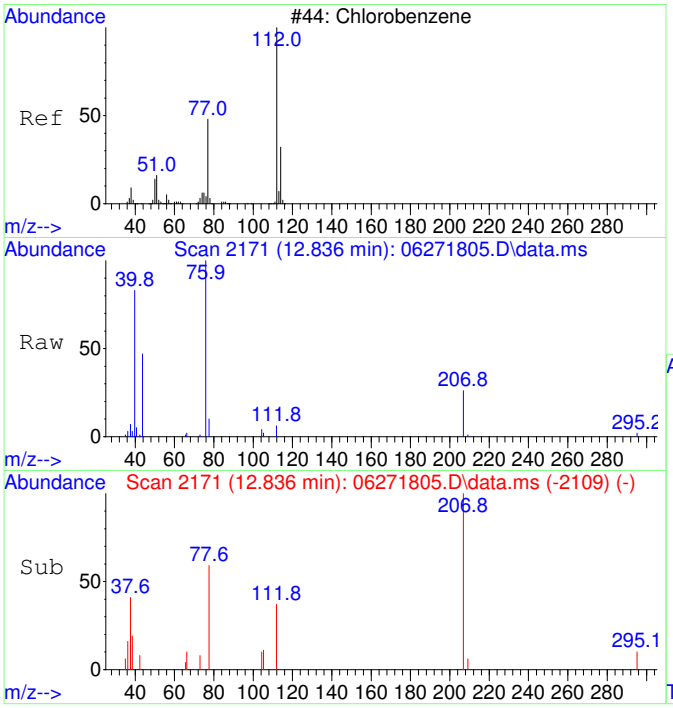


#38
1,1,2-Trichloroethane SCAN
Concen: 26.71 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. -0.010 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 97 Resp: 127

Ion	Ratio	Lower	Upper
97	100		
83	311.0	63.6	123.6#
61	0.0	44.9	104.9#
99	415.7	37.0	97.0#

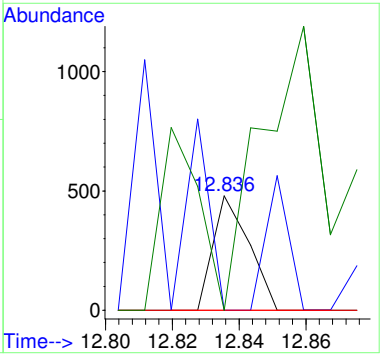


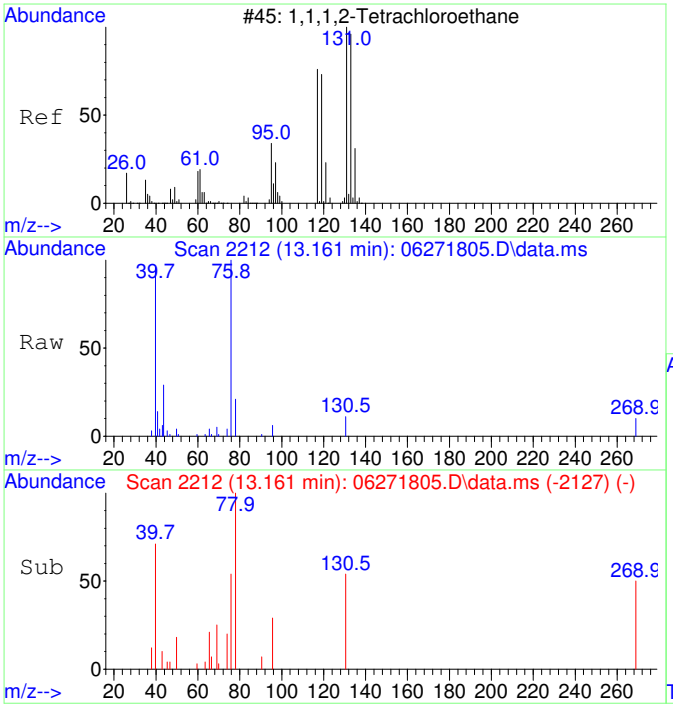


#40
Chlorobenzene SCAN
Concen: 23.79 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:112 Resp: 358

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

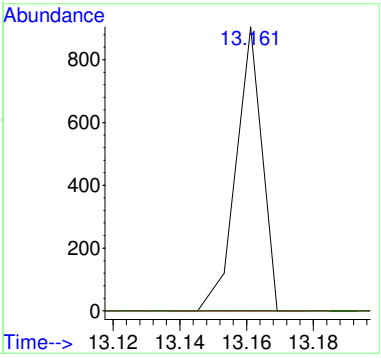


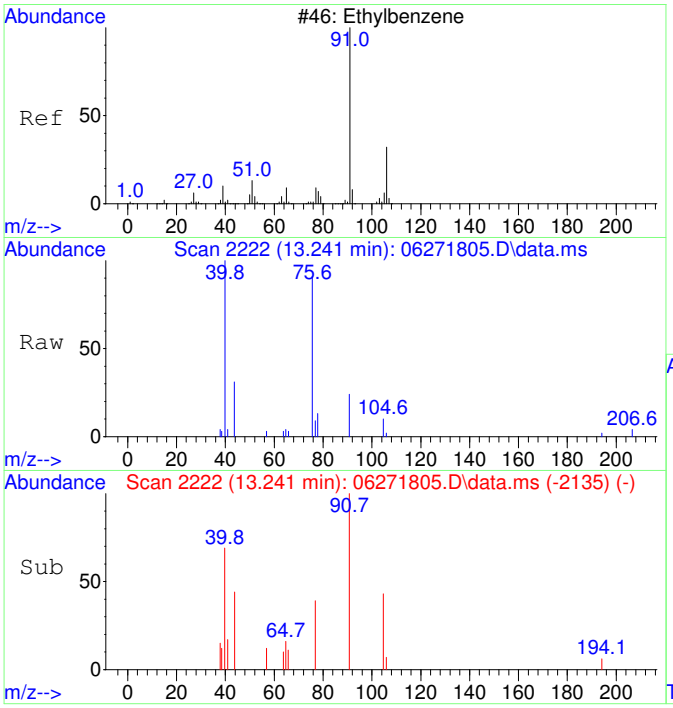


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 91.02 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.175 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:131 Resp: 489

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#

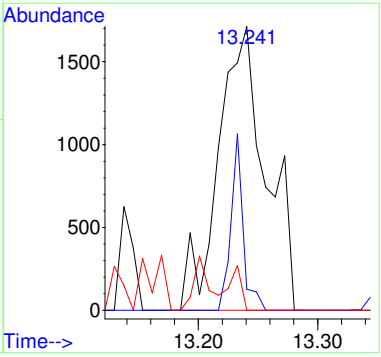


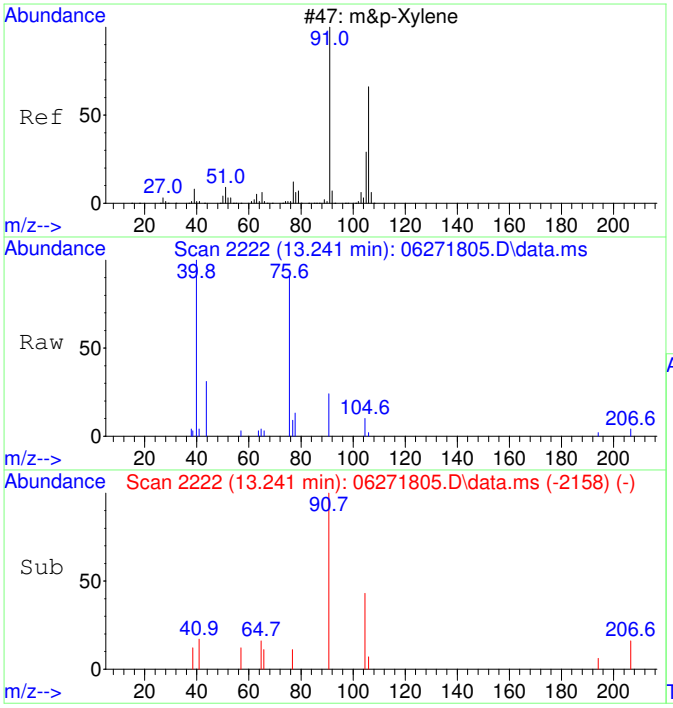


#42
Ethylbenzene SCAN
Concen: 164.43 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.191 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 4742

Ion	Ratio	Lower	Upper
91	100		
106	16.0	3.2	63.2
51	2.7	0.0	40.1

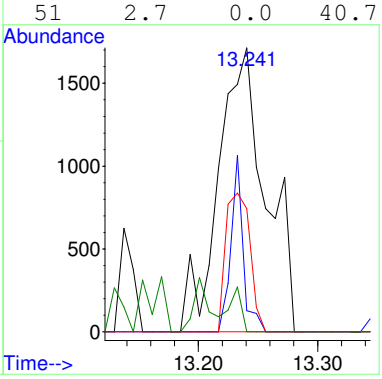


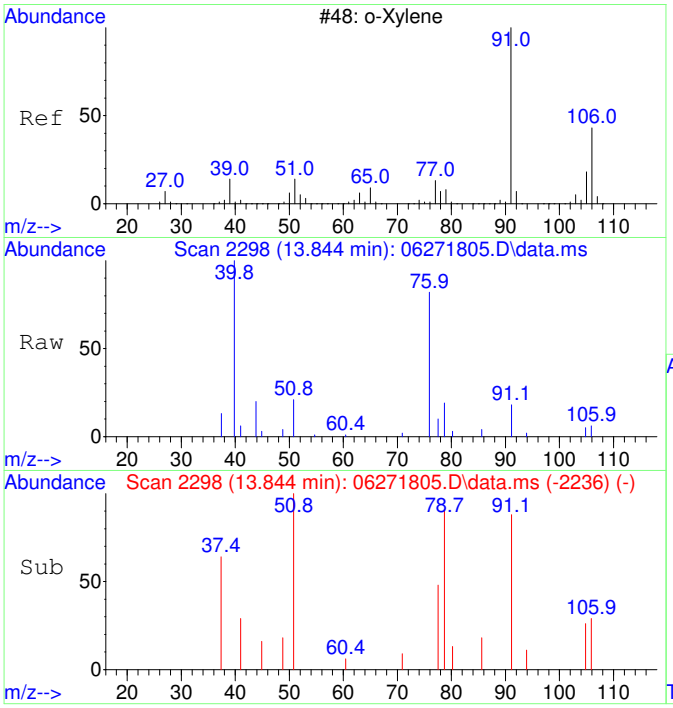


#43
m&p-Xylene SCAN
Concen: 118.46 ug/L
RT: 13.241 min Scan# 2222
Delta R.T. 0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 4742

Ion	Ratio	Lower	Upper
91	100		
106	16.0	20.1	80.1#
105	25.1	0.0	51.1
51	2.7	0.0	40.7

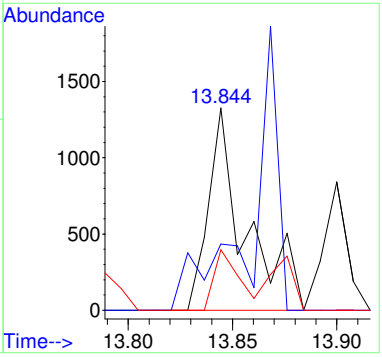


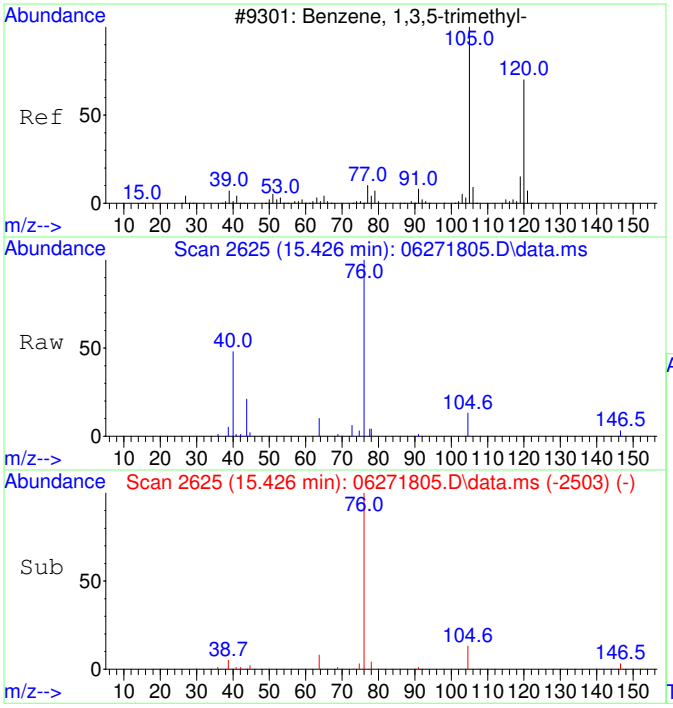


#44
o-Xylene SCAN
Concen: 71.85 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.008 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion: 91 Resp: 1637

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.3	81.3#
105	17.1	0.0	55.2

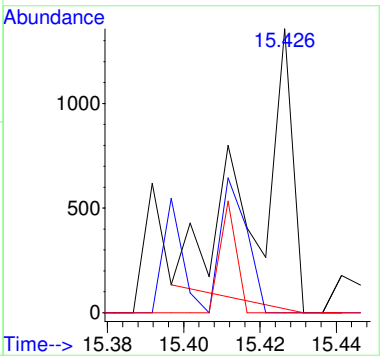


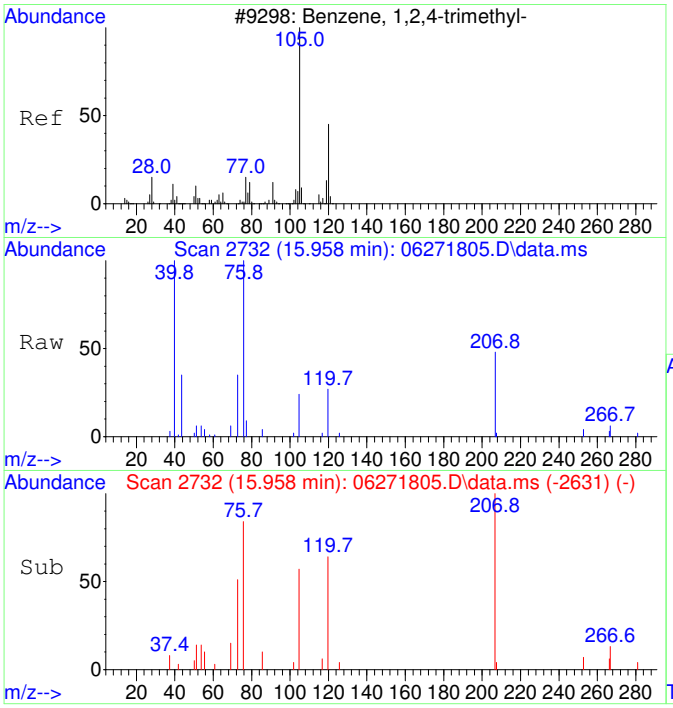


#46
1,3,5-Trimethylbenzene SCAN
Concen: 39.04 ug/L
RT: 15.426 min Scan# 2625
Delta R.T. 0.013 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 882

Ion	Ratio	Lower	Upper
105	100		
120	35.3	16.8	76.8
119	18.0	0.0	41.5

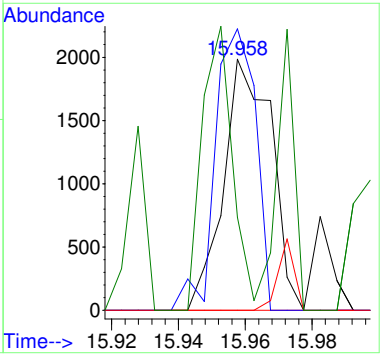


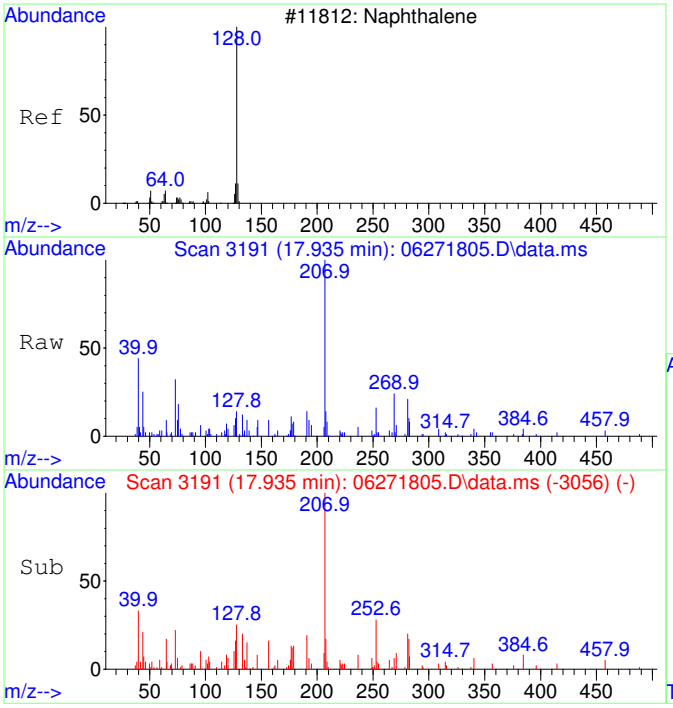


#47
1,2,4-Trimethylbenzene SCAN
Concen: 85.69 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.004 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:105 Resp: 1984

Ion	Ratio	Lower	Upper
105	100		
120	94.1	15.4	75.4#
119	0.0	0.0	41.7
77	69.1	0.0	42.0#

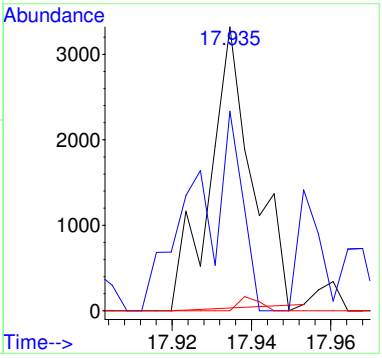




#48
Naphthalene SCAN
Concen: 74.50 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. -0.000 min
Lab File: 06271805.D
Acq: 27 Jun 2018 11:06

Tgt Ion:128 Resp: 2461

Ion	Ratio	Lower	Upper
128	100		
127	32.3	0.0	43.9
129	2.5	0.0	40.5



SECOND SOURCE CALIBRATION CHECK

Radiello D1

Laboratory:	EPA Region 9 Laboratory	SDG:	18170C
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

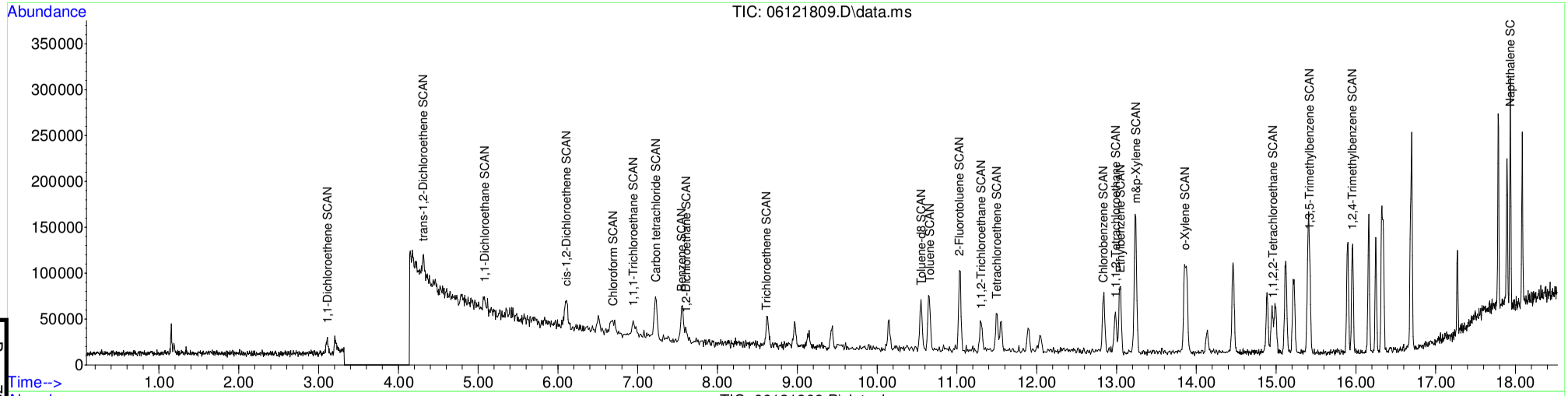
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	79376	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.550	98	65069	5046.82 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.94%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	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



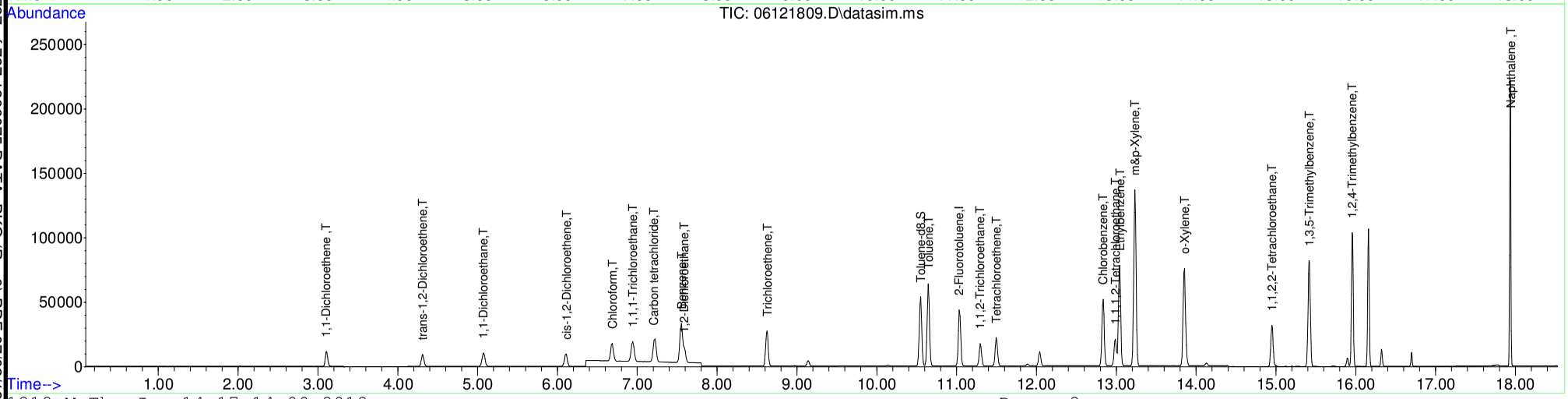


Table of Contents

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

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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Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Analytical Standard Record

EPA Region 9 Laboratory

1652067

Description:	VOA 502.2 CAL 2000 MEGA MIX, Stock	**Expires:**	07/31/18
Standard Type:	Other Solution	**Prepared:**	12/20/16
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	12/20/16 11:14 by YNB
Vendor:	Restek	**Lot Numbe**	A0120695

RESTEK, catalog # 30431, Barcode AU008645

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

1652067

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 #3332.02

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.

AU008637	1652059
38	60
39	61
40	62
41	63
42	64
43	65
44	66
45	67
46	68

Catalog No. : 30431 **Lot No.:** A0120695

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, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,1-dichloroethene CAS # 75-35-4 Purity 99%	(Lot SHBD6170V)	2,014.8 µg/mL	+/- 12.6980 µg/mL +/- 90.8800 µg/mL +/- 100.8151 µg/mL		Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) CAS # 75-09-2 Purity 99%	(Lot SHBF9870V)	2,016.7 µg/mL	+/- 12.7100 µg/mL +/- 90.9657 µg/mL +/- 100.9101 µg/mL		Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene CAS # 156-60-5 Purity 99%	(Lot MKBH9850V)	2,017.9 µg/mL	+/- 12.7176 µg/mL +/- 91.0199 µg/mL +/- 100.9702 µg/mL		Gravimetric Unstressed Stressed
4	1,1-Dichloroethane CAS # 75-34-3 Purity 99%	(Lot Q179-33)	2,016.5 µg/mL	+/- 12.7086 µg/mL +/- 90.9558 µg/mL +/- 100.8991 µg/mL		Gravimetric Unstressed Stressed
5	2,2-Dichloropropane CAS # 594-20-7 Purity 98%	(Lot BCBR0622V)	2,000.3 µg/mL	+/- 12.6830 µg/mL +/- 90.2357 µg/mL +/- 100.0981 µg/mL		Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene CAS # 156-59-2 Purity 98%	(Lot MKBV2831V)	2,001.3 µg/mL	+/- 12.6894 µg/mL +/- 90.2814 µg/mL +/- 100.1488 µg/mL		Gravimetric Unstressed Stressed
7	chloroform CAS # 67-66-3 Purity 99%	(Lot MKBV2089V)	2,017.8 µg/mL	+/- 12.7170 µg/mL +/- 91.0154 µg/mL +/- 100.9652 µg/mL		Gravimetric Unstressed Stressed

24	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKBQ6577V)	2,005.0	µg/mL	+/- +/- +/-	12.6364 90.4389 100.3258	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,000.1	µg/mL	+/- +/- +/-	12.6817 90.2262 100.0875	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBF0505V)	2,017.3	µg/mL	+/- +/- +/-	12.7138 90.9928 100.9402	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,000.9	µg/mL	+/- +/- +/-	12.6868 90.2623 100.1276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBG5920V)	2,000.8	µg/mL	+/- +/- +/-	12.6861 90.2578 100.1226	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBF8095V)	2,000.9	µg/mL	+/- +/- +/-	12.6870 90.2638 100.1292	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBF3427V)	2,000.1	µg/mL	+/- +/- +/-	12.6821 90.2292 100.0909	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBF7003V)	2,001.0	µg/mL	+/- +/- +/-	12.6878 90.2698 100.1359	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBS7097V)	2,000.4	µg/mL	+/- +/- +/-	12.6838 90.2412 100.1042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,000.3	µg/mL	+/- +/- +/-	12.6834 90.2382 100.1009	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBD8459V)	2,018.3	µg/mL	+/- +/- +/-	12.7202 91.0388 100.9912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,016.9	µg/mL	+/- +/- +/-	12.7113 90.9748 100.9202	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,000.2	µg/mL	+/- +/- +/-	12.6823 90.2307 100.0925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot MKBJ0332V)	2,000.5	µg/mL	+/- +/- +/-	12.6844 90.2457 100.1092	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,000.3	µg/mL	+/- +/- +/-	12.6834 90.2382 100.1009	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBJ6245V)	2,000.8	µg/mL	+/- +/- +/-	12.6863 90.2593 100.1242	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)

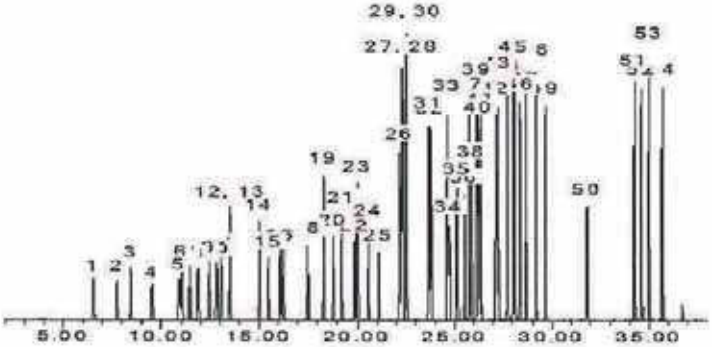
Carrier Gas:
helium-constant pressure 30 psi

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.

Dawn Brownson - Mix Technician

Date Mixed: 28-Jul-2016 **Balance:** 1125113331

Date Passed: 02-Aug-2016

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

8	Bromochloromethane CAS # 74-97-5 Purity 99%	(Lot 00004559)	2,000.5	µg/mL	+/- +/- +/-	12.6844 90.2457 100.1092	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,1,1-trichloroethane CAS # 71-55-6 Purity 99%	(Lot B15MW0705)	2,016.3	µg/mL	+/- +/- +/-	12.7074 90.9468 100.8891	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,1-Dichloropropene CAS # 563-58-6 Purity 97%	(Lot 4935200)	2,000.7	µg/mL	+/- +/- +/-	12.6858 90.2558 100.1203	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBG1763V)	2,016.6	µg/mL	+/- +/- +/-	12.7095 90.9621 100.9061	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot MKBV4565V)	2,016.4	µg/mL	+/- +/- +/-	12.7081 90.9522 100.8951	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBG7317V)	2,000.5	µg/mL	+/- +/- +/-	12.6846 90.2472 100.1109	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBF0943V)	2,014.8	µg/mL	+/- +/- +/-	12.6979 90.8791 100.8141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot 01113D0V)	2,016.3	µg/mL	+/- +/- +/-	12.7078 90.9495 100.8921	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	bromodichloromethane CAS # 75-27-4 Purity 98%	(Lot MKBL1617V)	2,006.0	µg/mL	+/- +/- +/-	12.6426 90.4832 100.3748	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Dibromomethane CAS # 74-95-3 Purity 98%	(Lot 10183283)	2,000.2	µg/mL	+/- +/- +/-	12.6824 90.2313 100.0932	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 22238)	2,016.7	µg/mL	+/- +/- +/-	12.7101 90.9666 100.9111	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Toluene CAS # 108-88-3 Purity 99%	(Lot MKBV5601V)	2,000.2	µg/mL	+/- +/- +/-	12.6825 90.2322 100.0942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 99%	(Lot C584177)	2,016.0	µg/mL	+/- +/- +/-	12.7059 90.9360 100.8771	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,017.7	µg/mL	+/- +/- +/-	12.7162 91.0099 100.9592	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2,000.5	µg/mL	+/- +/- +/-	12.6846 90.2472 100.1109	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBD9374V)	2,017.3	µg/mL	+/- +/- +/-	12.7136 90.9910 100.9382	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,001.4	µg/mL	+/- +/- +/-	12.6903 90.2878 100.1559	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,001.3	µg/mL	+/- +/- +/-	12.6893 90.2803 100.1476	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ6229V)	2,000.0	µg/mL	+/- +/- +/-	12.6814 90.2239 100.0850	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBK3151V)	2,000.6	µg/mL	+/- +/- +/-	12.6851 90.2502 100.1142	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBS2604V)	2,000.9	µg/mL	+/- +/- +/-	12.6872 90.2653 100.1309	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBM5751V)	2,016.5	µg/mL	+/- +/- +/-	12.7090 90.9585 100.9021	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS1350V)	2,017.5	µg/mL	+/- +/- +/-	12.7152 91.0027 100.9512	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09418JJV)	2,000.3	µg/mL	+/- +/- +/-	12.6830 90.2352 100.0975	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot S52237V)	2,001.0	µg/mL	+/- +/- +/-	12.6874 90.2668 100.1326	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBD7331V)	2,017.4	µg/mL	+/- +/- +/-	12.7147 90.9991 100.9472	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,000.2	µg/mL	+/- +/- +/-	12.6825 90.2322 100.0942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBC5541V)	2,002.3	µg/mL	+/- +/- +/-	12.6956 90.3254 100.1976	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot J31X013)	1,999.9	µg/mL	+/- +/- +/-	12.6805 90.2180 100.0785	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	2,000.7	µg/mL	+/- +/- +/-	12.6859 90.2563 100.1209	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	1,2,3-Trichlorobenzene **CAS #** 87-61-6 **Purity** 99%	(Lot MKBS4859V)	2,000.8	µg/mL	+/- +/- +/-	12.6863 90.2593 100.1242	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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 #3222.01

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.:** 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

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

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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
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

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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

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Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

This Data Sheet Contains Important Information About The Product.

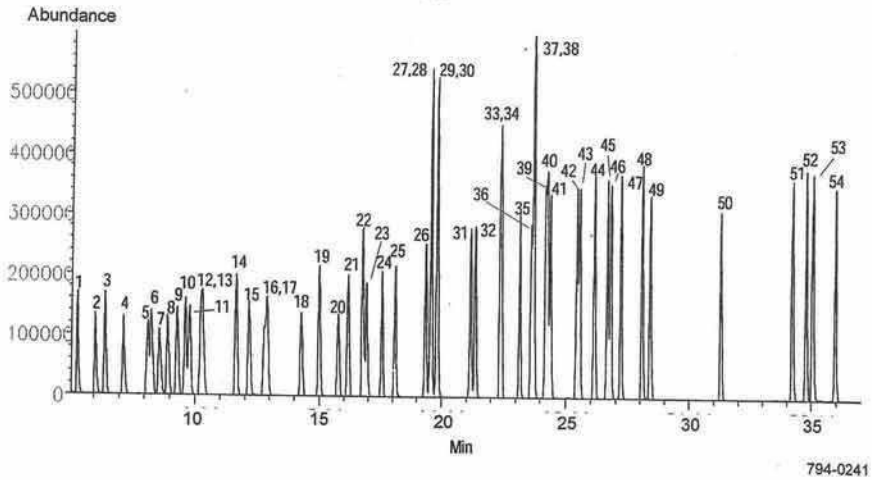
502/524 Volatile Organics Calibration Mix

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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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)

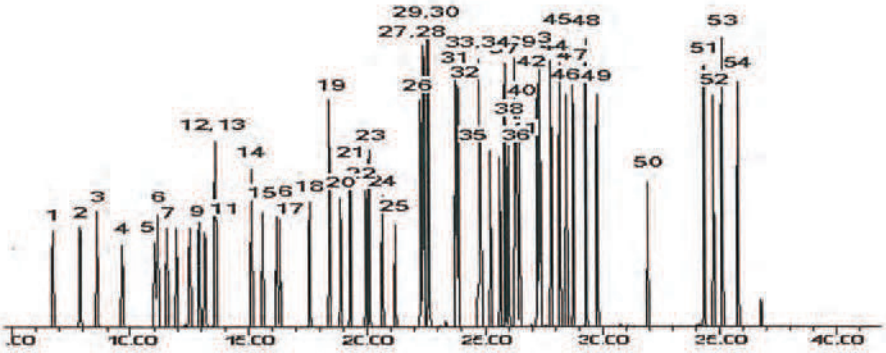
Carrier Gas:
helium-constant pressure 30 psi

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

1806048

Description:	Passive indoor air MRL Spike	**Expires:**	07/31/18
Standard Type:	Other Solution	**Prepared:**	02/07/18
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/07/18 09:47 by RH
Vendor:	*Prepared*	**Lot Numbe**	1748145

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	20
Bromobenzene	108-86-1	20
Benzene	71-43-2	20
4-Chlorotoluene	106-43-4	20
2-Chlorotoluene	95-49-8	20
2,2-Dichloropropane	594-20-7	20
1,4-Dichlorobenzene	106-46-7	20
1,3-Dichloropropane	142-28-9	20
1,3-Dichlorobenzene	541-73-1	20
1,3,5-Trimethylbenzene	108-67-8	20
1,2-Dichloropropane	78-87-5	20
1,1,1,2-Tetrachloroethane	630-20-6	20
1,2-Dichlorobenzene	95-50-1	20
Bromoform	75-25-2	20
1,2-Dibromo-3-chloropropane	96-12-8	20
1,2,4-Trimethylbenzene	95-63-6	20
1,2,4-Trichlorobenzene	120-82-1	20
1,2,3-Trichloropropane	96-18-4	20
1,2,3-Trichlorobenzene	87-61-6	20
1,1-Dichloropropene	563-58-6	20
1,1-Dichloroethene	75-35-4	20
1,1-Dichloroethane	75-34-3	20
1,1,2-Trichloroethane	79-00-5	20
1,1,2,2-Tetrachloroethane	79-34-5	20
1,1,1-Trichloroethane	71-55-6	20
1,2-Dichloroethane	107-06-2	20
Hexachlorobutadiene	87-68-3	20
trans-1,3-Dichloropropene	10061-02-6	20
trans-1,2-Dichloroethene	156-60-5	20
Toluene	108-88-3	20

Analytical Standard Record

EPA Region 9 Laboratory

1806048

Tetrachloroethene	127-18-4	20
tert-Butylbenzene	98-06-6	20
Styrene	100-42-5	20
sec-Butylbenzene	135-98-8	20
Propylbenzene	103-65-1	20
p-Isopropyltoluene	99-87-6	20
o-Xylene	95-47-6	20
Naphthalene	91-20-3	20
Bromochloromethane	74-97-5	20
Isopropylbenzene	98-82-8	20
Bromodichloromethane	75-27-4	20
Ethylbenzene	100-41-4	20
Dichloromethane	75-09-2	20
Dibromomethane	74-95-3	20
cis-1,3-Dichloropropene	10061-01-5	20
cis-1,2-Dichloroethene	156-59-2	20
Chloroform	67-66-3	20
Chlorodibromomethane	124-48-1	20
Chlorobenzene	108-90-7	20
Carbon tetrachloride	56-23-5	20
Butylbenzene	104-51-8	20
Trichloroethene	79-01-6	20
m&p-Xylene	179601-23-1	40

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1652067	VOA 502.2 CAL 2000 MEGA MIX, St	12/20/16	** Vendor **	07/31/18	12/20/16 11:14 by YNB	0.02

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:	06/08/18 13:13 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	06/08/18 11:48 by RH	0.5
1823094	Passive indoor air Surrogate Stock	06/11/18	Bob Hopeman	12/11/18	06/08/18 11:45 by RH	0.5

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

Reviewed By Date

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