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United States Environmental Protection Agency
Region 9 Laboratory

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

Date: **7/13/2021**

Subject: **Analytical Testing Results - Project R21S04**
WorkOrder **2106037**

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 OU1 FY2021 Vapor Intrusion 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 Audrey Johnson at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Bob Hopeman, 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**	**WorkOrder: 2106037**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 07/13/21 16:12
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
F6-010-3ft-1d	2106037-01	Radiello 130	06/23/21 13:44	06/25/21 13:02
F6-008-3ft-1d	2106037-02	Radiello 130	06/23/21 13:46	06/25/21 13:02
F6-006-3ft-1d	2106037-03	Radiello 130	06/23/21 14:02	06/25/21 13:02
F6-002-3ft-1d	2106037-04	Radiello 130	06/23/21 14:20	06/25/21 13:02
6Sixty-MH1-3ft-1d	2106037-05	Radiello 130	06/23/21 13:29	06/25/21 13:02
6Sixty-MH1-3ft-D-1d	2106037-06	Radiello 130	06/23/21 13:29	06/25/21 13:02
F5-038-2ft-1d	2106037-07	Radiello 130	06/23/21 14:42	06/25/21 13:02
235 Fairchild-SC-5ft-1d	2106037-08	Radiello 130	06/23/21 13:53	06/25/21 13:02
Waverly-MH1-2ft-1d	2106037-09	Radiello 130	06/23/21 13:48	06/25/21 13:02
Waverly-MH2-2ft-1d	2106037-10	Radiello 130	06/23/21 13:51	06/25/21 13:02
Classics-MH1-2ft-1d	2106037-11	Radiello 130	06/23/21 14:50	06/25/21 13:02
Classics-MH2-2ft-1d	2106037-12	Radiello 130	06/23/21 14:53	06/25/21 13:02
6Sixty-MH2-2ft-1d	2106037-13	Radiello 130	06/23/21 14:34	06/25/21 13:02
6Sixty-MH3-2ft-1d	2106037-14	Radiello 130	06/23/21 14:36	06/25/21 13:02
F5-002-2ft-1d	2106037-15	Radiello 130	06/23/21 16:15	06/25/21 13:02
G6-014-2.5ft-1d	2106037-16	Radiello 130	06/23/21 12:15	06/25/21 13:02
F7-002-2.5ft-1d	2106037-17	Radiello 130	06/23/21 11:56	06/25/21 13:02
F6-039-2.5ft-1d	2106037-18	Radiello 130	06/23/21 12:06	06/25/21 13:02
F6-037-2.5ft-1d	2106037-19	Radiello 130	06/23/21 12:24	06/25/21 13:02
F6-035-3ft-1d	2106037-20	Radiello 130	06/23/21 12:28	06/25/21 13:02
F6-033-3ft-1d	2106037-21	Radiello 130	06/23/21 12:33	06/25/21 13:02
F6-031-2.5ft-1d	2106037-22	Radiello 130	06/23/21 12:37	06/25/21 13:02
F6-055-2.5ft-1d	2106037-23	Radiello 130	06/23/21 15:02	06/25/21 13:02
F6-029-3ft-1d	2106037-24	Radiello 130	06/23/21 13:00	06/25/21 13:02
F6-027-3ft-1d	2106037-25	Radiello 130	06/23/21 12:47	06/25/21 13:02
F6-025-2.5ft-1d	2106037-26	Radiello 130	06/23/21 13:10	06/25/21 13:02
F6-023-3ft-1d	2106037-27	Radiello 130	06/23/21 13:07	06/25/21 13:02
F6-023-3ft-D-1d	2106037-28	Radiello 130	06/23/21 13:07	06/25/21 13:02
F6-021-2t-1d	2106037-29	Radiello 130	06/23/21 13:20	06/25/21 13:02
F6-053-2ft-1d	2106037-30	Radiello 130	06/23/21 12:23	06/25/21 13:02
F6-004-2.5ft-5hr	2106037-31	Radiello 130	06/23/21 16:51	06/25/21 13:02

Work Order 2106037

Per client request (see email) Radiello sample name changed. Note TO-15 sample not changed as requested in the email per additional client request.

Radiello sample 2106037-15 changed to F5-062-2ft-1d (not F6-002-2ft-1d).

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
Project Number: R21S04
Project: MEW OU1 FY2021 Vapor Intrusion Investigation

California Site Cleanup Section 3
75 Hawthorne Street
San Francisco CA, 94105

WorkOrder: 2106037
Reported: 07/13/21 16:12

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2106037-01									**Radiello 130 - Sampled: 06/23/21 13:44**
Sample ID: F6-010-3ft-1d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		7.1		0.87	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		5.7		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		7.0		1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		81		1.1	"	"	"	"	Radiello D1
Chloroform		200		0.89	"	"	"	"	Radiello D1
Trichloroethene		290		0.96	"	"	"	"	Radiello D1
Tetrachloroethene		19		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-02									**Radiello 130 - Sampled: 06/23/21 13:46**
Sample ID: F6-008-3ft-1d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		7.4		0.88	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		6.2		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		7.5		1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		87		1.1	"	"	"	"	Radiello D1
Chloroform		170		0.89	"	"	"	"	Radiello D1
Trichloroethene		360		0.97	"	"	"	"	Radiello D1
Tetrachloroethene		21		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-03									**Radiello 130 - Sampled: 06/23/21 14:02**
Sample ID: F6-006-3ft-1d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		5.4		0.87	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		4.7		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		5.7		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		74		1.1	"	"	"	"	Radiello D1
Chloroform		110		0.88	"	"	"	"	Radiello D1
Trichloroethene		260		0.96	"	"	"	"	Radiello D1
Tetrachloroethene		16		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-04									**Radiello 130 - Sampled: 06/23/21 14:20**
Sample ID: F6-002-3ft-1d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		6.4		0.87	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		5.0		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		6.1		1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		77		1.1	"	"	"	"	Radiello D1
Chloroform		200		0.89	"	"	"	"	Radiello D1
Trichloroethene		260		0.96	"	"	"	"	Radiello D1
Tetrachloroethene		19		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	

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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2106037**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 07/13/21 16:12
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2106037-05									**Radiello 130 - Sampled: 06/23/21 13:29**
Sample ID: 6Sixty-MH1-3ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.50	C1, J	0.91	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		5.8		1.1	"	"	"	"	Radiello D1
Chloroform		15		0.92	"	"	"	"	Radiello D1
Trichloroethene		19		1	"	"	"	"	Radiello D1
Tetrachloroethene		1.1	C1, J	1.2	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-06									**Radiello 130 - Sampled: 06/23/21 13:29**
Sample ID: 6Sixty-MH1-3ft-D-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.55	C1, J	0.91	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		6.0		1.1	"	"	"	"	Radiello D1
Chloroform		15		0.92	"	"	"	"	Radiello D1
Trichloroethene		19		1	"	"	"	"	Radiello D1
Tetrachloroethene		1.1	C1, J	1.2	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-07									**Radiello 130 - Sampled: 06/23/21 14:42**
Sample ID: F5-038-2ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		7.8		0.87	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		6.2		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		7.5		1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		97		1.1	"	"	"	"	Radiello D1
Chloroform		240		0.88	"	"	"	"	Radiello D1
Trichloroethene		340		0.96	"	"	"	"	Radiello D1
Tetrachloroethene		22		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-08									**Radiello 130 - Sampled: 06/23/21 13:53**
Sample ID: 235 Fairchild-SC-5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		2.0		0.87	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		1.5		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		2.0		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		23		1.1	"	"	"	"	Radiello D1
Chloroform		57		0.88	"	"	"	"	Radiello D1
Trichloroethene		82		0.96	"	"	"	"	Radiello D1
Tetrachloroethene		5.0		1.1	"	"	"	"	Radiello D1

United States Environmental Protection Agency
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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Alana Lee
Project Number: R21S04
Project: MEW OU1 FY2021 Vapor Intrusion Investigation

California Site Cleanup Section 3
75 Hawthorne Street
San Francisco CA, 94105

WorkOrder: 2106037
Reported: 07/13/21 16:12

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2106037-08									**Radiello 130 - Sampled: 06/23/21 13:53**
Sample ID: 235 Fairchild-SC-5ft-1d									**Volatile Organic Compounds Collected on Passive Air Sampling Devices**
Surrogate: Toluene-d8			100 %	*86-118%*		*B21F073*	*06/28/21*	*06/28/21*	
Lab ID: 2106037-09									**Radiello 130 - Sampled: 06/23/21 13:48**
Sample ID: Waverly-MH1-2ft-1d									**Volatile Organic Compounds Collected on Passive Air Sampling Devices**
1,1-Dichloroethene		ND	U	0.87	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Chloroform		ND	U	0.89	"	"	"	"	Radiello D1
Trichloroethene		ND	U	0.96	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		*"*	*"*	*"*	
Lab ID: 2106037-10									**Radiello 130 - Sampled: 06/23/21 13:51**
Sample ID: Waverly-MH2-2ft-1d									**Volatile Organic Compounds Collected on Passive Air Sampling Devices**
1,1-Dichloroethene		ND	U	0.87	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		1.3		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Chloroform		22		0.88	"	"	"	"	Radiello D1
Trichloroethene		22		0.96	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		*"*	*"*	*"*	
Lab ID: 2106037-11									**Radiello 130 - Sampled: 06/23/21 14:50**
Sample ID: Classics-MH1-2ft-1d									**Volatile Organic Compounds Collected on Passive Air Sampling Devices**
1,1-Dichloroethene		2.1		0.85	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		1.6		1	"	"	"	"	Radiello D1
1,1-Dichloroethane		2.0		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		24		1	"	"	"	"	Radiello D1
Chloroform		37		0.86	"	"	"	"	Radiello D1
Trichloroethene		81		0.94	"	"	"	"	Radiello D1
Tetrachloroethene		5.2		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		*"*	*"*	*"*	
Lab ID: 2106037-12									**Radiello 130 - Sampled: 06/23/21 14:53**
Sample ID: Classics-MH2-2ft-1d									**Volatile Organic Compounds Collected on Passive Air Sampling Devices**
1,1-Dichloroethene		3.8		0.85	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		3.1		1	"	"	"	"	Radiello D1
1,1-Dichloroethane		3.8		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		46		1	"	"	"	"	Radiello D1

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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2106037**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 07/13/21 16:12
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2106037-12									**Radiello 130 - Sampled: 06/23/21 14:53**
Sample ID: Classics-MH2-2ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
Chloroform		82		0.86	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
Trichloroethene		170		0.94	"	"	"	"	Radiello D1
Tetrachloroethene		11		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-13									**Radiello 130 - Sampled: 06/23/21 14:34**
Sample ID: 6Sixty-MH2-2ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.87	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Chloroform		1.9		0.88	"	"	"	"	Radiello D1
Trichloroethene		ND	U	0.96	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-14									**Radiello 130 - Sampled: 06/23/21 14:36**
Sample ID: 6Sixty-MH3-2ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.87	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		1.7		1.1	"	"	"	"	Radiello D1
Chloroform		3.4		0.88	"	"	"	"	Radiello D1
Trichloroethene		5.8		0.96	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			100 %	*86-118%*		"	"	"	
Lab ID: 2106037-15									**Radiello 130 - Sampled: 06/23/21 16:15**
Sample ID: F5-002-2ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.5		0.88	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		3.0		1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.79	C1, J	1.1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		39		1.1	"	"	"	"	Radiello D1
Chloroform		200		0.89	"	"	"	"	Radiello D1
Trichloroethene		93		0.97	"	"	"	"	Radiello D1
Tetrachloroethene		170		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			100 %	*86-118%*		"	"	"	
Lab ID: 2106037-16									**Radiello 130 - Sampled: 06/23/21 12:15**
Sample ID: G6-014-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				

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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2106037-16									**Radiello 130 - Sampled: 06/23/21 12:15**
Sample ID: G6-014-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.85	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
Chloroform		19		0.86	"	"	"	"	Radiello D1
Trichloroethene		3.0		0.93	"	"	"	"	Radiello D1
Tetrachloroethene		0.78	C1, J	1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			100 %	*86-118%*		"	"	"	
Lab ID: 2106037-17									**Radiello 130 - Sampled: 06/23/21 11:56**
Sample ID: F7-002-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.84	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
Chloroform		ND	U	0.85	"	"	"	"	Radiello D1
Trichloroethene		ND	U	0.93	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-18									**Radiello 130 - Sampled: 06/23/21 12:06**
Sample ID: F6-039-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.84	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
Chloroform		8.1		0.85	"	"	"	"	Radiello D1
Trichloroethene		2.1		0.93	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-19									**Radiello 130 - Sampled: 06/23/21 12:24**
Sample ID: F6-037-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.51	C1, J	0.83	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.60	C1, J	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		1.7		1	"	"	"	"	Radiello D1
Chloroform		93		0.85	"	"	"	"	Radiello D1
Trichloroethene		17		0.92	"	"	"	"	Radiello D1

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Project Manager: Alana Lee
Project Number: R21S04
Project: MEW OU1 FY2021 Vapor Intrusion Investigation

California Site Cleanup Section 3
75 Hawthorne Street
San Francisco CA, 94105

WorkOrder: 2106037
Reported: 07/13/21 16:12

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2106037-19									**Radiello 130 - Sampled: 06/23/21 12:24**
Sample ID: F6-037-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
Tetrachloroethene		5.9		1.1	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-20									**Radiello 130 - Sampled: 06/23/21 12:28**
Sample ID: F6-035-3ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.83	ug/m³ Air	B21F073	06/28/21	06/28/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
Chloroform		ND	U	0.84	"	"	"	"	Radiello D1
Trichloroethene		1.0		0.92	"	"	"	"	Radiello D1
Tetrachloroethene		0.76	C1, J	1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-21									**Radiello 130 - Sampled: 06/23/21 12:33**
Sample ID: F6-033-3ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.83	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
Chloroform		ND	U	0.84	"	"	"	"	Radiello D1
Trichloroethene		1.9		0.92	"	"	"	"	Radiello D1
Tetrachloroethene		1.6		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-22									**Radiello 130 - Sampled: 06/23/21 12:37**
Sample ID: F6-031-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		3.1		0.83	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		1.2		1	"	"	"	"	Radiello D1
1,1-Dichloroethane		3.2		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		19		1	"	"	"	"	Radiello D1
Chloroform		68		0.84	"	"	"	"	Radiello D1
Trichloroethene		57		0.92	"	"	"	"	Radiello D1
Tetrachloroethene		14		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-23									**Radiello 130 - Sampled: 06/23/21 15:02**
Sample ID: F6-055-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.87	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1

United States Environmental Protection Agency
Region 9 Laboratory
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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2106037**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 07/13/21 16:12
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2106037-23									**Radiello 130 - Sampled: 06/23/21 15:02**
Sample ID: F6-055-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethane		ND	U	1	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
cis-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Chloroform		ND	U	0.88	"	"	"	"	Radiello D1
Trichloroethene		0.50	C1, J	0.95	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-24									**Radiello 130 - Sampled: 06/23/21 13:00**
Sample ID: F6-029-3ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.3		0.84	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		0.73	C1, J	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		1.3		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		10		1	"	"	"	"	Radiello D1
Chloroform		7.7		0.85	"	"	"	"	Radiello D1
Trichloroethene		59		0.92	"	"	"	"	Radiello D1
Tetrachloroethene		4.2		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-25									**Radiello 130 - Sampled: 06/23/21 12:47**
Sample ID: F6-027-3ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.1		0.84	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		1.1		1	"	"	"	"	Radiello D1
1,1-Dichloroethane		1.3		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		8.8		1	"	"	"	"	Radiello D1
Chloroform		13		0.85	"	"	"	"	Radiello D1
Trichloroethene		56		0.93	"	"	"	"	Radiello D1
Tetrachloroethene		3.9		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-26									**Radiello 130 - Sampled: 06/23/21 13:10**
Sample ID: F6-025-2.5ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.1		0.83	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		0.97	C1, J	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		1.4		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		9.5		1	"	"	"	"	Radiello D1
Chloroform		16		0.84	"	"	"	"	Radiello D1
Trichloroethene		50		0.91	"	"	"	"	Radiello D1
Tetrachloroethene		4.9		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			100 %	*86-118%*		"	"	"	
Lab ID: 2106037-27									**Radiello 130 - Sampled: 06/23/21 13:07**

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Project: MEW OU1 FY2021 Vapor Intrusion Investigation

California Site Cleanup Section 3
75 Hawthorne Street
San Francisco CA, 94105

WorkOrder: 2106037
Reported: 07/13/21 16:12

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2106037-27									**Radiello 130 - Sampled: 06/23/21 13:07**
Sample ID: F6-023-3ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.2		0.84	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		0.88	C1, J	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		1.1		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		12		1	"	"	"	"	Radiello D1
Chloroform		4.7		0.85	"	"	"	"	Radiello D1
Trichloroethene		45		0.92	"	"	"	"	Radiello D1
Tetrachloroethene		2.8		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		"	"	"	
Lab ID: 2106037-28									**Radiello 130 - Sampled: 06/23/21 13:07**
Sample ID: F6-023-3ft-D-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.2		0.84	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		0.94	C1, J	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		1.2		1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		12		1	"	"	"	"	Radiello D1
Chloroform		4.9		0.85	"	"	"	"	Radiello D1
Trichloroethene		46		0.92	"	"	"	"	Radiello D1
Tetrachloroethene		2.9		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			100 %	*86-118%*		"	"	"	
Lab ID: 2106037-29									**Radiello 130 - Sampled: 06/23/21 13:20**
Sample ID: F6-021-2t-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.83	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1	"	"	"	"	Radiello D1
Chloroform		32		0.84	"	"	"	"	Radiello D1
Trichloroethene		27		0.92	"	"	"	"	Radiello D1
Tetrachloroethene		6.1		1.1	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			102 %	*86-118%*		"	"	"	
Lab ID: 2106037-30									**Radiello 130 - Sampled: 06/23/21 12:23**
Sample ID: F6-053-2ft-1d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.87	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	1	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	1.1	"	"	"	"	Radiello D1
Chloroform		37		0.88	"	"	"	"	Radiello D1
Trichloroethene		14		0.95	"	"	"	"	Radiello D1
Tetrachloroethene		4.3		1.1	"	"	"	"	Radiello D1

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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2106037**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 07/13/21 16:12
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2106037-30									**Radiello 130 - Sampled: 06/23/21 12:23**
Sample ID: F6-053-2ft-1d									**Volatile Organic Compounds Collected on Passive Air Sampling Devices**
Surrogate: Toluene-d8			101 %	*86-118%*		*B21F080*	*06/29/21*	*06/29/21*	
Lab ID: 2106037-31									**Radiello 130 - Sampled: 06/23/21 16:51**
Sample ID: F6-004-2.5ft-5hr									**Volatile Organic Compounds Collected on Passive Air Sampling Devices**
1,1-Dichloroethene		ND	U	0.77	ug/m³ Air	B21F080	06/29/21	06/29/21	Radiello D1
trans-1,2-Dichloroethene		ND	U	0.95	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	0.93	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	0.95	"	"	"	"	Radiello D1
Chloroform		0.86		0.78	"	"	"	"	Radiello D1
Trichloroethene		ND	U	0.85	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	0.99	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*86-118%*		*"*	*"*	*"*	

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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 B21F073 - Passive Air Sampler										
Blank (B21F073-BLK1)				Prepared & Analyzed: 06/28/21						
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	*1000*		ug/m³ Air	*992*		*101*	*86-118*			
LCS (B21F073-BS1)				Prepared & Analyzed: 06/28/21						
1,1-Dichloroethene	14.5	0.13	ug/m³ Air	13.1		111	22-143			
trans-1,2-Dichloroethene	18.1	0.16	ug/m³ Air	16.0		113	35-133			
1,1-Dichloroethane	17.5	0.16	ug/m³ Air	15.7		111	43-140			
cis-1,2-Dichloroethene	17.7	0.16	ug/m³ Air	16.0		111	49-134			
Chloroform	13.9	0.13	ug/m³ Air	13.2		105	56-132			
Trichloroethene	15.0	0.14	ug/m³ Air	14.4		104	69-124			
Tetrachloroethene	17.2	0.17	ug/m³ Air	16.8		103	69-124			
Surrogate: Toluene-d8	*1000*		ug/m³ Air	*992*		*101*	*86-118*			
LCS Dup (B21F073-BSD1)				Prepared & Analyzed: 06/28/21						
1,1-Dichloroethene	13.2	0.13	ug/m³ Air	13.1		101	22-143	9	62	
trans-1,2-Dichloroethene	16.4	0.16	ug/m³ Air	16.0		102	35-133	10	53	
1,1-Dichloroethane	15.9	0.16	ug/m³ Air	15.7		101	43-140	10	44	
cis-1,2-Dichloroethene	16.2	0.16	ug/m³ Air	16.0		101	49-134	9	39	
Chloroform	12.7	0.13	ug/m³ Air	13.2		96	56-132	9	41	
Trichloroethene	13.9	0.14	ug/m³ Air	14.4		97	69-124	8	20	
Tetrachloroethene	16.3	0.17	ug/m³ Air	16.8		97	69-124	6	20	
Surrogate: Toluene-d8	*1010*		ug/m³ Air	*992*		*101*	*86-118*			

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Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 07/13/21 16:12
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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 B21F080 - Passive Air Sampler										
Blank (B21F080-BLK1)				Prepared & Analyzed: 06/29/21						
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	*1000*		ug/m³ Air	*992*		*101*	*86-118*			
LCS (B21F080-BS1)				Prepared & Analyzed: 06/29/21						
1,1-Dichloroethene	12.1	0.13	ug/m³ Air	13.1		93	22-143			
trans-1,2-Dichloroethene	15.6	0.16	ug/m³ Air	16.0		98	35-133			
1,1-Dichloroethane	15.1	0.16	ug/m³ Air	15.7		96	43-140			
cis-1,2-Dichloroethene	15.6	0.16	ug/m³ Air	16.0		98	49-134			
Chloroform	12.4	0.13	ug/m³ Air	13.2		94	56-132			
Trichloroethene	14.2	0.14	ug/m³ Air	14.4		98	69-124			
1,1,2-Trichloroethane	14.7	0.15	ug/m³ Air	15.0		98	76-115			
Tetrachloroethene	16.8	0.17	ug/m³ Air	16.8		100	69-124			
Surrogate: Toluene-d8	*1010*		ug/m³ Air	*992*		*102*	*86-118*			
LCS Dup (B21F080-BSD1)				Prepared & Analyzed: 06/29/21						
1,1-Dichloroethene	11.9	0.13	ug/m³ Air	13.1		91	22-143	2	62	
trans-1,2-Dichloroethene	15.6	0.16	ug/m³ Air	16.0		97	35-133	0.3	53	
1,1-Dichloroethane	15.2	0.16	ug/m³ Air	15.7		97	43-140	0.5	44	
cis-1,2-Dichloroethene	15.7	0.16	ug/m³ Air	16.0		98	49-134	0.7	39	
Chloroform	12.5	0.13	ug/m³ Air	13.2		95	56-132	0.9	41	
Trichloroethene	14.3	0.14	ug/m³ Air	14.4		100	69-124	1	20	
1,1,2-Trichloroethane	14.8	0.15	ug/m³ Air	15.0		98	76-115	0.8	15	
Tetrachloroethene	16.8	0.17	ug/m³ Air	16.8		100	69-124	0.005	20	
Surrogate: Toluene-d8	*1010*		ug/m³ Air	*992*		*102*	*86-118*			

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**	**WorkOrder: 2106037**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 07/13/21 16:12
Project: MEW OU1 FY2021 Vapor Intrusion 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 S21F068 - B21F073										
Instrument Blank (S21F068-IBL1)				Prepared & Analyzed: 06/28/21						
1,1-Dichloroethene	ND	0.0	ug/L							U
trans-1,2-Dichloroethene	ND	0.0	ug/L							U
1,1-Dichloroethane	ND	0.0	ug/L							U
cis-1,2-Dichloroethene	ND	0.0	ug/L							U
Chloroform	ND	0.0	ug/L							U
Trichloroethene	ND	0.0	ug/L							U
Tetrachloroethene	ND	0.0	ug/L							U
Surrogate: Toluene-d8	*0.00*		ug/L				*86-118*			*U*
Batch S21F073 - B21F080										
Instrument Blank (S21F073-IBL1)				Prepared & Analyzed: 06/29/21						
1,1-Dichloroethene	ND	0.0	ug/L							U
trans-1,2-Dichloroethene	ND	0.0	ug/L							U
1,1-Dichloroethane	ND	0.0	ug/L							U
cis-1,2-Dichloroethene	ND	0.0	ug/L							U
Chloroform	ND	0.0	ug/L							U
Trichloroethene	ND	0.0	ug/L							U
1,1,2-Trichloroethane	ND	0.0	ug/L							U
Tetrachloroethene	ND	0.0	ug/L							U
Surrogate: Toluene-d8	*0.00*		ug/L				*86-118*			*U*

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

Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2106037**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 07/13/21 16:12
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Qualifiers and Comments

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.

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**	**WorkOrder: 2106037**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 07/13/21 16:12
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Sample Receiving:
F6-033-3ft-1d start time on tube is 9:38, while start time on COC is 9:35. F6-027-3ft-1d start time on tube is 10:01 while COC has 10:04.
Logged in per COC.
Radiello's excel sheet will be calculated and attached on 6/28/21. JC 06/25/21

The COC form requests vinyl chloride as an analyte for these passive samples, but the analytical SOP does not include this compound as an analyte. The analytical request form does not include this analyte. JB 7/8/21

WORK ORDER

Printed: 7/13/2021 4:02:09PM

2106037

EPA Region 9 Laboratory

Client: **California Site Cleanup Section 3**
Project: **MEW OU1 FY2021 Vapor Intrusion Investigation**
Project Number: **R21S04**

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

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

Shipping Containers	Description	Temp C	Custody Seals?	Containers Intact?	Labels COC Agree?	Preservation Confirmed?	Received on Ice?	Comments
Box 1	Box 1	21	No	Yes	No	No	No	

Date Due:	07/09/21 17:00 (14 day TAT)	SDG:	21176E
Received By:	Shannon Behmke	Date Received:	06/25/21 13:02
Logged In By:	Jessica Caldeira	Date Logged In:	06/25/21 13:29

Analysis	Hold Time Expires	Comments
2106037-01 F6-010-3ft-1d [Radiello 130] Sampled 06/23/21 13:44 (GMT-08:00) Pacific Time (US &		**Y173N**
VOCs, Passive Samplers	12/20/21	check COC for requested analytes
2106037-02 F6-008-3ft-1d [Radiello 130] Sampled 06/23/21 13:46 (GMT-08:00) Pacific Time (US &		**Y174N**
VOCs, Passive Samplers	12/20/21	check COC for requested analytes
2106037-03 F6-006-3ft-1d [Radiello 130] Sampled 06/23/21 14:02 (GMT-08:00) Pacific Time (US &		**Y029T**
VOCs, Passive Samplers	12/20/21	check COC for requested analytes
2106037-04 F6-002-3ft-1d [Radiello 130] Sampled 06/23/21 14:20 (GMT-08:00) Pacific Time (US &		**Y030T**
VOCs, Passive Samplers	12/20/21	check COC for requested analytes
2106037-05 6Sixty-MH1-3ft-1d [Radiello 130] Sampled 06/23/21 13:29 (GMT-08:00) Pacific Time (US &		**Y031T**
VOCs, Passive Samplers	12/20/21	check COC for requested analytes
2106037-06 6Sixty-MH1-3ft-D-1d [Radiello 130] Sampled 06/23/21 13:29 (GMT-08:00) Pacific Time (US &		**Y032T**
VOCs, Passive Samplers	12/20/21	check COC for requested analytes

WORK ORDER

Printed: 7/13/2021 4:02:09PM

2106037

EPA Region 9 Laboratory

Client: California Site Cleanup Section 3 **Project Number:** R21S04
Project: MEW OU1 FY2021 Vapor Intrusion Investigation

Analysis	Hold Time Expires	Comments

Analysis	Expires	Comments

2106037-07 F5-038-2ft-1d [Radiello 130] Sampled 06/23/21 14:42 (GMT-08:00) Pacific Time (US & Y035T

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-08 235 Fairchild-SC-5ft-1d [Radiello 130] Sampled 06/23/21 13:53 (GMT-08:00) Pacific Time (US & Y028T

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-09 Waverly-MH1-2ft-1d [Radiello 130] Sampled 06/23/21 13:48 (GMT-08:00) Pacific Time (US & Y175N

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-10 Waverly-MH2-2ft-1d [Radiello 130] Sampled 06/23/21 13:51 (GMT-08:00) Pacific Time (US & Y176N

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-11 Classics-MH1-2ft-1d [Radiello 130] Sampled 06/23/21 14:50 (GMT-08:00) Pacific Time (US & Y036T

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-12 Classics-MH2-2ft-1d [Radiello 130] Sampled 06/23/21 14:53 (GMT-08:00) Pacific Time (US & Y037T

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-13 6Sixty-MH2-2ft-1d [Radiello 130] Sampled 06/23/21 14:34 (GMT-08:00) Pacific Time (US & Y033T

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-14 6Sixty-MH3-2ft-1d [Radiello 130] Sampled 06/23/21 14:36 (GMT-08:00) Pacific Time (US & Y034T

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-15 F5-002-2ft-1d [Radiello 130] Sampled 06/23/21 16:15 (GMT-08:00) Pacific Time (US & Y025T

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

WORK ORDER

Printed: 7/13/2021 4:02:09PM

2106037

EPA Region 9 Laboratory

Client: **California Site Cleanup Section 3** **Project Number:** **R21S04**
Project: **MEW OU1 FY2021 Vapor Intrusion Investigation**

Analysis	Hold Time Expires	Comments

Analysis	Expires	Comments

2106037-16 G6-014-2.5ft-1d [Radiello 130] Sampled 06/23/21 12:15 (GMT-08:00) Pacific Time (US & **Y027T**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-17 F7-002-2.5ft-1d [Radiello 130] Sampled 06/23/21 11:56 (GMT-08:00) Pacific Time (US & **Y160N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-18 F6-039-2.5ft-1d [Radiello 130] Sampled 06/23/21 12:06 (GMT-08:00) Pacific Time (US & **Y161N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-19 F6-037-2.5ft-1d [Radiello 130] Sampled 06/23/21 12:24 (GMT-08:00) Pacific Time (US & **Y162N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-20 F6-035-3ft-1d [Radiello 130] Sampled 06/23/21 12:28 (GMT-08:00) Pacific Time (US & **Y163N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-21 F6-033-3ft-1d [Radiello 130] Sampled 06/23/21 12:33 (GMT-08:00) Pacific Time (US & **Y164N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-22 F6-031-2.5ft-1d [Radiello 130] Sampled 06/23/21 12:37 (GMT-08:00) Pacific Time (US & **Y165N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-23 F6-055-2.5ft-1d [Radiello 130] Sampled 06/23/21 15:02 (GMT-08:00) Pacific Time (US & **Y038T**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-24 F6-029-3ft-1d [Radiello 130] Sampled 06/23/21 13:00 (GMT-08:00) Pacific Time (US & **Y167N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

WORK ORDER

Printed: 7/13/2021 4:02:09PM

2106037

EPA Region 9 Laboratory

Client: **California Site Cleanup Section 3** **Project Number:** **R21S04**
Project: **MEW OU1 FY2021 Vapor Intrusion Investigation**

Analysis	Hold Time Expires	Comments

Analysis	Expires	Comments

2106037-25 F6-027-3ft-1d [Radiello 130] Sampled 06/23/21 12:47 (GMT-08:00) Pacific Time (US & **Y166N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-26 F6-025-2.5ft-1d [Radiello 130] Sampled 06/23/21 13:10 (GMT-08:00) Pacific Time (US & **Y168N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-27 F6-023-3ft-1d [Radiello 130] Sampled 06/23/21 13:07 (GMT-08:00) Pacific Time (US & **Y169N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-28 F6-023-3ft-D-1d [Radiello 130] Sampled 06/23/21 13:07 (GMT-08:00) Pacific Time (US & **Y170N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-29 F6-021-2t-1d [Radiello 130] Sampled 06/23/21 13:20 (GMT-08:00) Pacific Time (US & **Y171N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-30 F6-053-2ft-1d [Radiello 130] Sampled 06/23/21 12:23 (GMT-08:00) Pacific Time (US & **Y172N**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

2106037-31 F6-004-2.5ft-5hr [Radiello 130] Sampled 06/23/21 16:51 (GMT-08:00) Pacific Time (US & **Y026T**

VOCs, Passive Samplers	12/20/21	check COC for requested analytes

Reviewed By Date

Hopeman, Bob

From: Hopeman, Bob
Sent: Monday, July 12, 2021 2:35 PM
To: Williams, Cynthia
Subject: FW: EPA corrections: R9 Laboratory analytical testing results, ,MEW OU1 FY2021 Vapor Intrusion Investigation, Project R21S04 Work Orders 2106036, 2106037
Attachments: 2106037 9L_Analysis FINAL AL correction- 07.09.21-F5-062.pdf; Copy of 2106037 FINAL EXCEL -AL Correction F5-062 highlight -07.09.21.xls; Copy of 2106036 FINAL EXCEL AL Correction F6-027-07.09.21.xls; 2106036 9L_Analysis FINAL AL correction F6-027 -07.09.21.pdf

---

From: Lee, Alana <lee.alana@epa.gov>
Sent: Monday, July 12, 2021 12:53 PM
To: Hopeman, Bob <Hopeman.Bob@epa.gov>
Subject: EPA corrections: R9 Laboratory analytical testing results, ,MEW OU1 FY2021 Vapor Intrusion Investigation, Project R21S04 Work Orders 2106036, 2106037

Hi Bob,

Thank you for providing the R9 Laboratory analytical testing results.

There are two sample ID corrections needed below. I highlighted on the reports (and corrected on the Excel spreadsheet) (attached).

1. Radiello sample 2106037-15 should be **F5-062-2ft-1d** (not F6-002-2ft-1d).
2. TO15 canister sample 2106036-08 should be **F6-027-3ft-G** (not F6-025-3ft-G)

Are you able to re-issue a revised final report with these corrections/revisions noted on the report.

Thank you!

Alana Lee
EPA Superfund Project Manager

U.S. Environmental Protection Agency

CHAIN OF CUSTODY RECORD

EPA REGION 9
75 Hawthorne Street
San Francisco, California 94105

Project / Case Number: R21S04
MEW (M6) OU1

MEW OU1 Vapor Intrusion and Sewer Pathway - June 2021

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

Laboratory:
EPA R9 Richmond

Sampler: Ray Chavira/Kelsey Bartling/Alana Lee

Analysis: TCE, cis & trans 1,2-DCE, PCE, 1,1-DCE, 1,1-DCA, vinyl chlordie, chloroform
21-day TAT requested

Start Date End Date	Start Time/ End/Time	Matrix	Comp	Grab	EPA ID Number	Unique ID	RAD130 - # Containers	AVG (beg / end) Temp - F	AVG (beg / end) Temp - F	
06/22/2021 06/23/2021	12:00 13:44	Sewer Gas	X		F6-010-3ft-1d	Y173N	1	68	68	Lateral-Ellis - B
06/22/2021 06/23/2021	12:08 13:46	Sewer Gas	X		F6-008-3ft-1d	Y174N	1	68	68	
06/22/2021 06/23/2021	12:10 14:02	Sewer Gas	X		F6-006-3ft-1d	Y029T	1	68	68	
06/22/2021 06/23/2021	12:38 14:20	Sewer Gas	X		F6-002-3ft-1d	Y030T	1	68	68	B
06/22/2021 06/23/2021	12:44 13:29	Sewer Gas	X		6Sixty-MH1-3ft-1d	Y031T	1	68	68	B
06/22/2021 06/23/2021	12:44 13:29	Sewer Gas	X		6Sixty-MH1-3ft-D-1d	Y032T	1	68	68	no B
06/22/2021 06/23/2021	12:54 14:42	Sewer Gas	X		F5-038-2ft-1d	Y035T	1	68	68	
06/22/2021 06/23/2021	12:02 13:53	Sewer Gas	X		235 Fairchild-SC-5ft-1d	Y028T	1	68	68	B
06/22/2021 06/23/2021	12:04 13:48	Sewer Gas	X		Waverly-MH1-2ft-1d	Y175N	1	68	68	B
06/22/2021 06/23/2021	12:06 13:51	Sewer Gas	X		Waverly-MH2-2ft-1d	Y176N	1	68	68	
06/22/2021 06/23/2021	12:27 14:50	Sewer Gas	X		Classics-MH1-2ft-1d	Y036T	1	68	68	
06/22/2021 06/23/2021	12:29 14:53	Sewer Gas	X		Classics-MH2-2ft-1d	Y037T	1	68	68	pry
06/22/2021 06/23/2021	12:46 14:34	Sewer Gas	X		6Sixty-MH2-2ft-1d	Y033T	1	68	68	pry
06/22/2021 06/23/2021	12:48 14:36	Sewer Gas	X		6Sixty-MH3-2ft-1d	Y034T	1	68	68	pry-B
06/22/2021 06/23/2021	14:40 16:15	Sewer Gas	X		F6-002-2ft-1d	Y025T	1	68	68	Evandale-B

Relinquished by: *(Signature)* Date/Time: hand deliver
Alana Lee 6/25/2021 1302

Received for Laboratory by: *(Signature)* Date/Time
Glen Behnke 6/25/2021 1302

Received / Relinquished by: *(Signature)* Date/Time

Temp | Seals Intact? (Y/N) | Conditions / Remarks

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U.S. Environmental Protection Agency

CHAIN OF CUSTODY RECORD

EPA REGION 9
75 Hawthorne Street
San Francisco, California 94105

Project / Case Number: R21S04
MEW (M6) OU1

MEW OU1 Vapor Intrusion and Sewer Pathway - June 2021

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

Laboratory:
EPA R9 Richmond

Sampler: Kelsey Bartling /Ray Chavira/Alana Lee

Analysis: TCE, cis & trans 1,2-DCE, PCE, 1,1-DCE, 1,1-DCA, chloroform
21-day TAT requested

Start Date End Date	Start Time/ End/Time	Matrix	Comp	Grab	EPA ID Number	Unique ID	RAD130 - # Containers	AVG (beg / end) Temp - F	AVG (beg / end) Temp - F	
06/22/2021 06/23/2021	9:45 12:15	Sewer Gas	X		G6-014-2.5ft-1d	Y027T	1	68	68	Lateral-Ellis
06/22/2021 06/23/2021	9:16 11:56	Sewer Gas	X		F7-002-2.5ft-1d	Y160N	1	68	68	pry
06/22/2021 06/23/2021	9:24 12:06	Sewer Gas	X		F6-039-2.5ft-1d	Y161N	1	68	68	
06/22/2021 06/23/2021	9:27 12:24	Sewer Gas	X		F6-037-2.5ft-1d	Y162N	1	68	68	
06/22/2021 06/23/2021	9:30 12:28	Sewer Gas	X		F6-035-3ft-1d	Y163N	1	68	68	
06/22/2021 06/23/2021	9:35 12:33	Sewer Gas	X		F6-033-3ft-1d	Y164N	1	68	68	
06/22/2021 06/23/2021	9:38 12:37	Sewer Gas	X		F6-031-2.5ft-1d	Y165N	1	68	68	
06/22/2021 06/23/2021	13:05 15:02	Sewer Gas	X		F6-055-2.5ft-1d	Y038T	1	68	68	Lateral - National - B
06/22/2021 06/23/2021	10:07 13:00	Sewer Gas	X		F6-029-3ft-1d	Y167N	1	68	68	B-no cap
06/22/2021 06/23/2021	10:04 12:47	Sewer Gas	X		F6-027-3ft-1d	Y166N	1	68	68	
06/22/2021 06/23/2021	10:01 13:10	Sewer Gas	X		F6-025-2.5ft-1d	Y168N	1	68	68	
06/22/2021 06/23/2021	10:16 13:07	Sewer Gas	X		F6-023-3ft-1d	Y169N	1	68	68	
06/22/2021 06/23/2021	10:16 13:07	Sewer Gas	X		F6-023-3ft-D-1d	Y170N	1	68	68	F6-023-3ft-D-1d
06/22/2021 06/23/2021	10:20 13:20	Sewer Gas	X		F6-021-2t-1d	Y171N	1	68	68	Lateral - Whisman
06/22/2021 06/23/2021	10:24 12:23	Sewer Gas	X		F6-053-2ft-1d	Y172N	1	68	68	Lateral-Whisman - B
06/23/2021 06/23/2021	11:45 16:51	Sewer Gas	X		F6-004-2.5ft-5hr	Y026T	1	68	68	Lateral-Tyrella

Relinquished by: *(Signature)* Date/Time: hand delivery
Alana Lee 6/25/2021 1302

Received for Laboratory by: *(Signature)* Date/Time
[illegible] 6/25/2021 1302

Received / Relinquished by: *(Signature)* Date/Time

Temp | Seals Intact? (Y/N) | Conditions / Remarks

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Cooler/Box/Env 1 of 1

U.S. Environmental Protection Agency
Region 9 Richmond Laboratory

1337 South 46th Street
Richmond, CA 94804

Sample Receipt Checklist

Note in WO memo any items outside acceptable limits.

Project No: R21S04 **Work Order No(s):** 2106037 **Date:** 6/25/21 **by** TD

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

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

TEMPERATURE 21 °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 soon; 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

Check if applies: ☐ Notify analyst to check for methyl mercury analysis and low-level mercury analysis by 1631

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 verified:

☐ Sulfide: pH >9 NaOH/Zinc acetate

☐ Cyanide: pH >12 NaOH

☐ Metals: pH <2 HNO_3

☐ Ferrous Iron: pH <2 HCl

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

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

☐ Other:

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

F6-033 - 3/4-1d Start time on tube 9:38, start time on COC 9:35 Logged in per COC.

F6-027- 3/4-1d Start time on tube 10:01, COC - 10:04

FORM #: Q016
REV #: 2
REV. DATE: 07/29/19

Exposure Time in Minutes

	Sample ID Number	Start Date (XX/XX/XXXX)	Start Time	End Date	End Time	Minutes	Start temp C	End temp C	Avg temp K	Plate #
1	F6-010-3ft-1d	06/22/21	12:00	06/23/21	13:44	1544	20.00	20.00	293.15	Y173N
2	F6-008-3ft-1d	06/22/21	12:08	06/23/21	13:46	1538	20.00	20.00	293.15	Y174N
3	F6-006-3ft-1d	06/22/21	12:10	06/23/21	14:02	1552	20.00	20.00	293.15	Y029T
4	F6-002-3ft-1d	06/22/21	12:38	06/23/21	14:20	1542	20.00	20.00	293.15	Y030T
5	6Sixty-MH1-3ft-1d	06/22/21	12:44	06/23/21	13:29	1485	20.00	20.00	293.15	Y031T
6	6Sixty-MH1-3ft-D-1d	06/22/21	12:44	06/23/21	13:29	1485	20.00	20.00	293.15	Y032T
7	F5-038-2ft-1d	06/22/21	12:54	06/23/21	14:42	1548	20.00	20.00	293.15	Y035T
8	235 Fairchild-SC-5ft-1d	06/22/21	12:02	06/23/21	13:53	1551	20.00	20.00	293.15	Y028T
9	Waverly-MH1-2ft-1d	06/22/21	12:04	06/23/21	13:48	1544	20.00	20.00	293.15	Y175N
10	Waverly-MH2-2ft-1d	06/22/21	12:06	06/23/21	13:51	1545	20.00	20.00	293.15	Y176N
11	Classics-MH1-2ft-1d	06/22/21	12:27	06/23/21	14:50	1583	20.00	20.00	293.15	Y036T
12	Classics-MH2-2ft-1d	06/22/21	12:29	06/23/21	14:53	1584	20.00	20.00	293.15	Y037T
13	6Sixty-MH2-2ft-1d	06/22/21	12:46	06/23/21	14:34	1548	20.00	20.00	293.15	Y033T
14	6Sixty-MH3-2ft-1d	06/22/21	12:48	06/23/21	14:36	1548	20.00	20.00	293.15	Y034T
15	F6-002-2ft-1d	06/22/21	14:40	06/23/21	16:15	1535	20.00	20.00	293.15	Y025T
16	G6-014-2.5ft-1d	06/22/21	9:45	06/23/21	12:15	1590	20.00	20.00	293.15	Y027T
17	F7-002-2.5ft-1d	06/22/21	9:16	06/23/21	11:56	1600	20.00	20.00	293.15	Y160N
18	F6-039-2.5ft-1d	06/22/21	9:24	06/23/21	12:06	1602	20.00	20.00	293.15	Y161N
19	F6-037-2.5ft-1d	06/22/21	9:27	06/23/21	12:24	1617	20.00	20.00	293.15	Y162N
20	F6-035-3ft-1d	06/22/21	9:30	06/23/21	12:28	1618	20.00	20.00	293.15	Y163N
21	F6-033-3ft-1d	06/22/21	9:35	06/23/21	12:33	1618	20.00	20.00	293.15	Y164N
22	F6-031-2.5ft-1d	06/22/21	9:38	06/23/21	12:37	1619	20.00	20.00	293.15	Y165N
23	F6-055-2.5ft-1d	06/22/21	13:05	06/23/21	15:02	1557	20.00	20.00	293.15	Y038T
24	F6-029-3ft-1d	06/22/21	10:07	06/23/21	13:00	1613	20.00	20.00	293.15	Y167N
25	F6-027-3ft-1d	06/22/21	10:04	06/23/21	12:47	1603	20.00	20.00	293.15	Y166N
26	F6-025-2.5ft-1d	06/22/21	10:01	06/23/21	13:10	1629	20.00	20.00	293.15	Y168N
27	F6-023-3ft-1d	06/22/21	10:16	06/23/21	13:07	1611	20.00	20.00	293.15	Y169N
28	F6-023-3ft-D-1d	06/22/21	10:16	06/23/21	13:07	1611	20.00	20.00	293.15	Y170N
29	F6-021-2t-1d	06/22/21	10:20	06/23/21	13:20	1620	20.00	20.00	293.15	Y171N
30	F6-053-2ft-1d	06/22/21	10:24	06/23/21	12:23	1559	20.00	20.00	293.15	Y172N
31	F6-004-2.5ft-5hr	06/22/21	11:45	06/23/21	16:51	1746	20.00	20.00	293.15	Y026T

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BATCH

B21F073

Batch Date: 06/28/2021

Batch Matrix: Radiello 130

Batch Analyses:

VOCs, Passive Samplers

PREPARATION BENCH SHEET

B21F073

EPA Region 9 Laboratory

Project: R21S04

Printed: 7/6/2021 10:00:01AM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sampler** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2106036**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Ext pH	Prepared by	Extraction Comments
2106037-01 A	F6-010-3ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-02 A	F6-008-3ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-03 A	F6-006-3ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-04 A	F6-002-3ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-05 A	6Sixty-MH1-3ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-06 A	6Sixty-MH1-3ft-D-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-07 A	F5-038-2ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-08 A	235 Fairchild-SC-5ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-09 A	Waverly-MH1-2ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-10 A	Waverly-MH2-2ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-11 A	Classics-MH1-2ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-12 A	Classics-MH2-2ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-13 A	6Sixty-MH2-2ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-14 A	6Sixty-MH3-2ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-15 A	F6-002-2ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-16 A	G6-014-2.5ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes

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PREPARATION BENCH SHEET

B21F073

EPA Region 9 Laboratory

Project: R21S04

Printed: 7/6/2021 10:00:01AM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sample** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2106036**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Ext pH	Prepared by	Extraction Comments
2106037-17 A	F7-002-2.5ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-18 A	F6-039-2.5ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-19 A	F6-037-2.5ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
2106037-20 A	F6-035-3ft-1d	06/28/21 07:37	1	2				50		TD	check COC for requested analytes
B21F073-BLK1	Blank	06/28/21 07:37	1	2				50		TD	
B21F073-BS1	LCS	06/28/21 07:37	1	2		2108114	5	50		TD	
B21F073-BSD1	LCS Dup	06/28/21 07:37	1	2		2108114	5	50		TD	
B21F073-MRL1	MRL Check	06/28/21 07:37	1	2		2123016	5	50		TD	

Batch Comments

Reagents

Reagent #	Description
2045008	passive air Radiello tubes
2108166	Carbon disulfide

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PREPARATION BENCH SHEET

B21F073

EPA Region 9 Laboratory

Project: R21S04

Printed: 7/6/2021 10:00:01AM

Matrix: Radiello 13 **Analysis: QC** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2106036**

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

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BATCH

B21F080

Batch Date: 06/29/2021

Batch Matrix: Radiello 130

Batch Analyses:

VOCs, Passive Samplers

PREPARATION BENCH SHEET

B21F080

EPA Region 9 Laboratory

Project: R21S04

Printed: 7/6/2021 10:00:49AM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sampler** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2106036**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Ext pH	Prepared by	Extraction Comments
2106037-21 A	F6-033-3ft-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-22 A	F6-031-2.5ft-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-23 A	F6-055-2.5ft-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-24 A	F6-029-3ft-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-25 A	F6-027-3ft-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-26 A	F6-025-2.5ft-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-27 A	F6-023-3ft-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-28 A	F6-023-3ft-D-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-29 A	F6-021-2t-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-30 A	F6-053-2ft-1d	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
2106037-31 A	F6-004-2.5ft-5hr	06/29/21 06:27	1	2				50		TD	check COC for requested analytes
B21F080-BLK1	Blank	06/29/21 06:27	1	2				50		TD	
B21F080-BS1	LCS	06/29/21 06:27	1	2		2108114	5	50		TD	
B21F080-BSD1	LCS Dup	06/29/21 06:27	1	2		2108114	5	50		TD	
B21F080-MRL1	MRL Check	06/29/21 06:27	1	2		2123016	5	50		TD	

Batch Comments

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PREPARATION BENCH SHEET

B21F080

EPA Region 9 Laboratory

Project: R21S04

Printed: 7/6/2021 10:00:49AM

Matrix: Radiello 13 **Analysis: QC** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2106036**

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

Reagents

Reagent #	Description
2108163	Carbon disulfide
2113014	passive air Radiello tubes

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Calibration

2104012

Calibration Date: 04/27/2021

Instrument: AG5975CV

Calibration Analyses:

VOCs, Passive Samplers

Response Factor Report AG5975C

Method Path : C:\MSDCHEM\1\RAVIOLI METHODS\2021\
Method File : 042721.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Thu Apr 29 06:45:57 2021
Response Via : Initial Calibration

Calibration Files
25 =04272103.D 10 =04272104.D 5 =04272105.D 1 =04272106.D .15 =04272107.D .05 =04272108.D

		Compound	25	10	5	1	.15	.05	Avg	%RSD
1)	I	2-Fluorotoluene	----------ISTD----------							
2)	T	1,1-Dichloroet...	0.197	0.222	0.220	0.222	0.252	0.194	0.218	9.76
3)	T	trans-1,2-Dich...	0.170	0.186	0.192	0.181	0.206	0.189	0.187	6.51
4)	T	1,1-Dichloroet...	0.226	0.250	0.261	0.249	0.280	0.275	0.257	7.66
5)	T	cis-1,2-Dichlo...	0.223	0.245	0.253	0.243	0.275	0.238	0.246	6.96
6)	T	Chloroform	0.252	0.271	0.281	0.273	0.318	0.343	0.290	11.74
7)	T	1,1,1-Trichlor...	0.249	0.263	0.274	0.266	0.285	0.281	0.270	4.83
8)	T	Carbon tetrach...	0.223	0.230	0.239	0.233	0.246	0.238	0.235	3.36
9)	T	Benzene	0.699	0.736	0.763	0.780	1.093		0.814	19.52
10)	T	1,2-Dichloroet...	0.204	0.220	0.225	0.225	0.238	0.231	0.224	5.20
11)	T	Trichloroethene	0.197	0.209	0.220	0.221	0.228	0.227	0.217	5.42
12)	S	Toluene-d8	0.785	0.836	0.876	0.900	0.880	0.861	0.856	4.77
13)	T	Toluene	0.953	1.027	1.089	1.146	1.192	1.283	1.115	10.59
14)	T	1,1,2-Trichlor...	0.212	0.223	0.235	0.238	0.246	0.237	0.232	5.28
15)	T	Tetrachloroethene	0.257	0.275	0.294	0.305	0.294	0.286	0.285	6.01
16)	T	Chlorobenzene	0.741	0.803	0.853	0.898	1.057	1.440	0.965	26.50
17)	T	1,1,1,2-Tetrac...	0.234	0.248	0.264	0.275	0.265	0.255	0.257	5.68
18)	T	Ethylbenzene	1.251	1.359	1.451	1.564	1.504	1.461	1.432	7.76
19)	T	m&p-Xylene	0.972	1.061	1.131	1.230	1.189	1.185	1.128	8.55
)	T	o-Xylene	1.056	1.163	1.230	1.327	1.283	1.260	1.220	7.97
)	T	1,1,2,2-Tetrac...	0.470	0.511	0.538	0.571	0.548	0.551	0.532	6.78
)	T	1,3,5-Trimethy...	1.203	1.367	1.456	1.585	1.511	1.475	1.433	9.28
)	T	1,2,4-Trimethy...	1.221	1.406	1.499	1.646	1.608	1.574	1.492	10.61
)	T	Naphthalene	2.088	2.673	2.880	3.113	3.035	2.935	2.787	13.42
)		2-Fluorotoluen...			0.615				0.615	0.00
)		1,1-Dichloroet...			0.130				0.130	0.00
)		trans-1,2-Dich...			0.141				0.141	0.00
)		1,1-Dichloroet...			0.188				0.188	0.00
)		cis-1,2-Dichlo...			0.190				0.190	0.00
)		Chloroform SCAN			0.201				0.201	0.00
)		1,1,1-Trichlor...			0.188				0.188	0.00
)		Carbon tetrach...			0.155				0.155	0.00
)		Benzene SCAN			0.472				0.472	0.00
)		1,2-Dichloroet...			0.149				0.149	0.00
)		Trichloroethen...			0.120				0.120	0.00
)		Toluene-d8 SCAN			0.534				0.534	0.00
)		Toluene SCAN			0.691				0.691	0.00
)		1,1,2-Trichlor...			0.165				0.165	0.00
)		Tetrachloroeth...			0.166				0.166	0.00
)		Chlorobenzene ...			0.515				0.515	0.00
)		1,1,1,2-Tetrac...			0.153				0.153	0.00
)		Ethylbenzene SCAN			0.921				0.921	0.00

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Response Factor Report AG5975C

Method Path : C:\MSDCHEM\1\RAVIOLI METHODS\2021\
Method File : 042721.M

43)	m&p-Xylene SCAN	1.374	1.374	0.00
44)	o-Xylene SCAN	0.756	0.756	0.00
45)	1,1,2,2-Tetrac...	0.369	0.369	0.00
46)	1,3,5-Trimethy...	0.830	0.830	0.00
47)	1,2,4-Trimethy...	0.859	0.859	0.00
48)	Naphthalene SCAN	1.567	1.567	0.00

(#) = Out of Range

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Method Path : C:\MSDCHEM\1\RAVIOLI METHODS\2021\
Method File : 042721.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Thu Apr 29 06:45:57 2021
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	10.927	1.000	A	2	A	B
2	T	1,1-Dichloroethene	-61	3.049	0.279	A	3	A	B
3	T	trans-1,2-Dichloroethene	-61	4.214	0.386	A	3	A	B
4	T	1,1-Dichloroethane	-63	4.964	0.454	A	3	A	B
5	T	cis-1,2-Dichloroethene	-61	5.992	0.548	A	3	A	B
6	T	Chloroform	-83	6.564	0.601	A	2	A	B
7	T	1,1,1-Trichloroethane	-97	6.819	0.624	A	3	A	B
8	T	Carbon tetrachloride	-117	7.099	0.650	A	3	A	B
9	T	Benzene	-78	7.427	0.680	A	2	A	B
10	T	1,2-Dichloroethane	-62	7.464	0.683	A	3	A	B
11	T	Trichloroethene	-130	8.508	0.779	A	3	A	B
12	S	Toluene-d8	-98	10.433	0.955	A	1	A	B
13	T	Toluene	-91	10.528	0.963	A	1	A	B
14	T	1,1,2-Trichloroethane	-97	11.179	1.023	A	3	A	B
15	T	Tetrachloroethene	-166	11.378	1.041	A	3	A	B
16	T	Chlorobenzene	-112	12.716	1.164	A	3	A	B
17	T	1,1,1,2-Tetrachloroethane	-131	12.867	1.178	A	3	A	B
18	T	Ethylbenzene	-91	12.923	1.183	A	3	A	B
19	T	m&p-Xylene	-91	13.121	1.201	A	3	A	B
20	T	o-Xylene	-91	13.733	1.257	A	3	A	B
21	T	1,1,2,2-Tetrachloroethane	-83	14.831	1.357	A	3	A	B
22	T	1,3,5-Trimethylbenzene	-105	15.302	1.400	A	3	A	B
23	T	1,2,4-Trimethylbenzene	-105	15.863	1.452	A	3	A	B
24	T	Naphthalene	-128	17.882	1.637	A	3	A	B
25		2-Fluorotoluene SCAN	109	10.915	0.999	A	1	A	B
26		1,1-Dichloroethene SCAN	61	3.052	0.279	A	2	A	B
27		trans-1,2-Dichloroethene SCAN	61	4.219	0.386	A	2	A	B
28		1,1-Dichloroethane SCAN	63	4.969	0.455	A	2	A	B
29		cis-1,2-Dichloroethene SCAN	61	5.997	0.549	A	3	A	B
30		Chloroform SCAN	83	6.563	0.601	A	2	A	B
31		1,1,1-Trichloroethane SCAN	97	6.830	0.625	A	2	A	B
32		Carbon tetrachloride SCAN	117	7.098	0.650	A	3	A	B
33		Benzene SCAN	78	7.438	0.681	A	3	A	B
34		1,2-Dichloroethane SCAN	62	7.475	0.684	A	2	A	B
35		Trichloroethene SCAN	130	8.507	0.779	A	3	A	B
36		Toluene-d8 SCAN	98	10.432	0.955	A	1	A	B
37		Toluene SCAN	91	10.537	0.964	A	2	A	B
38		1,1,2-Trichloroethane SCAN	97	11.177	1.023	A	3	A	B
39		Tetrachloroethene SCAN	166	11.387	1.042	A	3	A	B
40		Chlorobenzene SCAN	112	12.723	1.164	A	3	A	B
41		1,1,1,2-Tetrachloroethane SCAN	131	12.866	1.177	A	3	A	B
42		Ethylbenzene SCAN	91	12.929	1.183	A	2	A	B
43		m&p-Xylene SCAN	91	13.120	1.201	A	3	A	B
44		o-Xylene SCAN	91	13.740	1.257	A	2	A	B
45		1,1,2,2-Tetrachloroethane SCAN	83	14.826	1.357	A	2	A	B
46		1,3,5-Trimethylbenzene SCAN	105	15.301	1.400	A	2	A	B
47		1,2,4-Trimethylbenzene SCAN	105	15.867	1.452	A	3	A	B
48		Naphthalene SCAN	128	17.881	1.636	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

042721.M Thu Apr 29 06:49:03 2021

CHEMSTATION AREA COUNT REPORT

AG5975C
S21D071-SCV1
2106043 5 mg/L
4/27/2021
Thu Apr 29 06:45:57 2021
TD

#	Name	L1	L2	L3	L4	L5	L6
1)	2-Fluorotoluene	298435	233035	193782	195095	145659	237609
2)	1,1-Dichloroethene	293830	103370	42634	8660	1103	460
3)	trans-1,2-Dichloroethene	253201	86586	37243	7065	902	450
4)	1,1-Dichloroethane	337778	116659	50670	9709	1224	654
5)	cis-1,2-Dichloroethene	333227	114126	49087	9492	1201	566
6)	Chloroform	376167	126371	54459	10670	1390	816
7)	1,1,1-Trichloroethane	372047	122578	53002	10395	1245	668
8)	Carbon tetrachloride	332897	107392	46388	9090	1074	566
9)	Benzene	1043122	343058	147886	30450	4778	4680
10)	1,2-Dichloroethane	304547	102333	43635	8797	1041	550
11)	Trichloroethene	294319	97297	42626	8609	995	539
12)	Toluene-d8	1171980	389653	169690	35134	3844	2047
13)	Toluene	1422077	478455	211024	44704	5208	3048
14)	1,1,2-Trichloroethane	316151	104153	45547	9284	1076	563
15)	Tetrachloroethene	383401	128094	56975	11910	1286	679
16)	Chlorobenzene	1106127	374195	165328	35049	4620	3421
17)	1,1,1,2-Tetrachloroethane	348494	115778	51065	10736	1159	607
18)	Ethylbenzene	1867379	633442	281087	61028	6574	3471
19)	m&p-Xylene	2899625	988601	438149	96002	10393	5632
20)	o-Xylene	1575353	542171	238414	51779	5607	2993
21)	1,1,2,2-Tetrachloroethane	700748	238321	104335	22280	2396	1309
22)	1,3,5-Trimethylbenzene	1795776	637032	282101	61844	6601	3504
23)	1,2,4-Trimethylbenzene	1821274	655185	290452	64240	7028	3740
24)	Naphthalene	3115941	1246030	558045	121456	13261	6975

CHEMSTATION CONCENTRATION REPORT

AG5975C
S21D071-SCV1
2106043 5 mg/L
4/27/2021
Thu Apr 29 06:45:57 2021
TD

#	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

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SCV REPORT

Instrument Name: AG5975C
Sample Name: S21D071-SCV1
Misc Info: 2106043 5 mg/L
Date Acquired: 4/27/2021
QLast Update: Thu Apr 29 06:45:57 2021
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.927	5000	5000.00	100%	70	130	pass
2)	1,1-Dichloroethene	3.049	5000	5438.37	109%	70	130	pass
3)	trans-1,2-Dichloroethene	4.214	5000	4873.89	97%	70	130	pass
4)	1,1-Dichloroethane	4.964	5000	4887.21	98%	70	130	pass
5)	cis-1,2-Dichloroethene	5.992	5000	5019.46	100%	70	130	pass
6)	Chloroform	6.564	5000	4674.12	93%	70	130	pass
7)	1,1,1-Trichloroethane	6.819	5000	4878.52	98%	70	130	pass
8)	Carbon tetrachloride	7.099	5000	4963.24	99%	70	130	pass
9)	Benzene	7.427	5000	4602.90	92%	70	130	pass
10)	1,2-Dichloroethane	7.464	5000	5041.87	101%	70	130	pass
11)	Trichloroethene	8.508	5000	4922.30	98%	70	130	pass
12)	Toluene-d8	10.433	5000	4905.96	98%	70	130	pass
13)	Toluene	10.528	5000	4819.84	96%	70	130	pass
14)	1,1,2-Trichloroethane	11.179	5000	5019.86	100%	70	130	pass
15)	Tetrachloroethene	11.378	5000	4952.79	99%	70	130	pass
16)	Chlorobenzene	12.716	5000	4340.87	87%	70	130	pass
17)	1,1,1,2-Tetrachloroethane	12.867	5000	5078.67	102%	70	130	pass
18)	Ethylbenzene	12.923	5000	5013.01	100%	70	130	pass
19)	m&p-Xylene	13.121	10000	9821.95	98%	70	130	pass
20)	o-Xylene	13.733	5000	4944.68	99%	70	130	pass
21)	1,1,2,2-Tetrachloroethane	14.831	5000	4972.35	99%	70	130	pass
22)	1,3,5-Trimethylbenzene	15.302	5000	4921.54	98%	70	130	pass
23)	1,2,4-Trimethylbenzene	15.863	5000	4776.47	96%	70	130	pass
24)	Naphthalene	17.882	5000	4601.91	92%	70	130	pass

SEQUENCE

S21D071

Sequence Date: 04/27/2021

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:		SEQUENCE #:	S21D071 04/27/21
BATCH #:	INITIAL CALIBRATION	ANALYSIS:	VOA Passive Air AG5975C

	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 Apr 29 06:45:57 2021			
	Initial Calibration ID (LIMS number):	2104012			
	ICAL within QC criteria?		Y	Y	Chlorobenzene = 27%
	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 #:		SEQUENCE #:	S21D071 04/27/21
BATCH #:	INITIAL CALIBRATION	ANALYSIS:	VOA Passive Air AG5975C

	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.	✔			

APPROVALS	ANALYST INITIALS & DATE:	TD 04/29/21
	REVIEWED BY:	ZIYAD RAJABI (Affiliate) Digitally signed by ZIYAD RAJABI (Affiliate) Date: 2021.05.05 14:47:29 -07'00' SIGN HERE

COMMENTS

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2021\042721\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	04272101.D	1	S21D071-IBL1		27 Apr 2021 8:35
2	04272102.D	1	S21D071-TUN1	BFB 2117016	27 Apr 2021 12:09
3	04272103.D	1	S21D071-CAL1	2106037 25 mg/L	27 Apr 2021 13:39
4	04272104.D	1	S21D071-CAL2	2106038 10 mg/L	27 Apr 2021 14:05
5	04272105.D	1	S21D071-CAL3	2106039 5 mg/L	27 Apr 2021 14:31
6	04272106.D	1	S21D071-CAL4	2106040 1 mg/L	27 Apr 2021 14:58
7	04272107.D	1	S21D071-CAL5	2106041 0.15 mg/L	27 Apr 2021 15:24
8	04272108.D	1	S21D071-CAL6	2106042 0.05 mg/L	27 Apr 2021 15:50
9	04272109.D	1	S21D071-SCV1	2106043 5 mg/L	27 Apr 2021 16:17

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2021\042721\04272102.D
Tune Time : 27 Apr 2021 12:09

Daily Calibration File : C:\msdchem\1\Ravioli Data\2021\042721\04272105.D

193782

File	Sample	Surrogate Recovery %	Internal Standard Responses
04272103.D			
	S21D071-CAL1	459*	298435
04272104.D			
	S21D071-CAL2	195*	233035
04272105.D			
	S21D071-CAL3	102	193782
04272106.D			
	S21D071-CAL4	21*	195095
04272107.D			
	S21D071-CAL5	3*	145659
04272108.D			
	S21D071-CAL6	1*	237609
04272109.D			
	S21D071-SCV	98	234781

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

Created: Thu Apr 29 07:04:58 2021 AG5975C

Analysis Sequence

S21D071

Project:
Analysis:

Instrument: AG5975CV **Calibration ID:** 2104012 Printed: 04/29/2021 9:45 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S21D071-IBL1	Instrument Blank	1	4/27/21 8:35			TD	04272101.D	
S21D071-TUN1	BFB	2	4/27/21 12:09	2117016		TD	04272102.D	
S21D071-CAL1	Cal Standard	3	4/27/21 13:39	2106037		TD	04272103.D	
S21D071-CAL2	Cal Standard	4	4/27/21 14:05	2106038		TD	04272104.D	
S21D071-CAL3	Cal Standard	5	4/27/21 14:31	2106039		TD	04272105.D	
S21D071-CAL4	Cal Standard	6	4/27/21 14:58	2106040		TD	04272106.D	
S21D071-CAL5	Cal Standard	7	4/27/21 15:24	2106041		TD	04272107.D	
S21D071-CAL6	Cal Standard	8	4/27/21 15:50	2106042		TD	04272108.D	
S21D071-SCV1	Secondary Cal Check	9	4/27/21 16:17	2106043		TD	04272109.D	

Sequence Comments

Reagents

Reagent # **Description**

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SEQUENCE DATA

S21D071

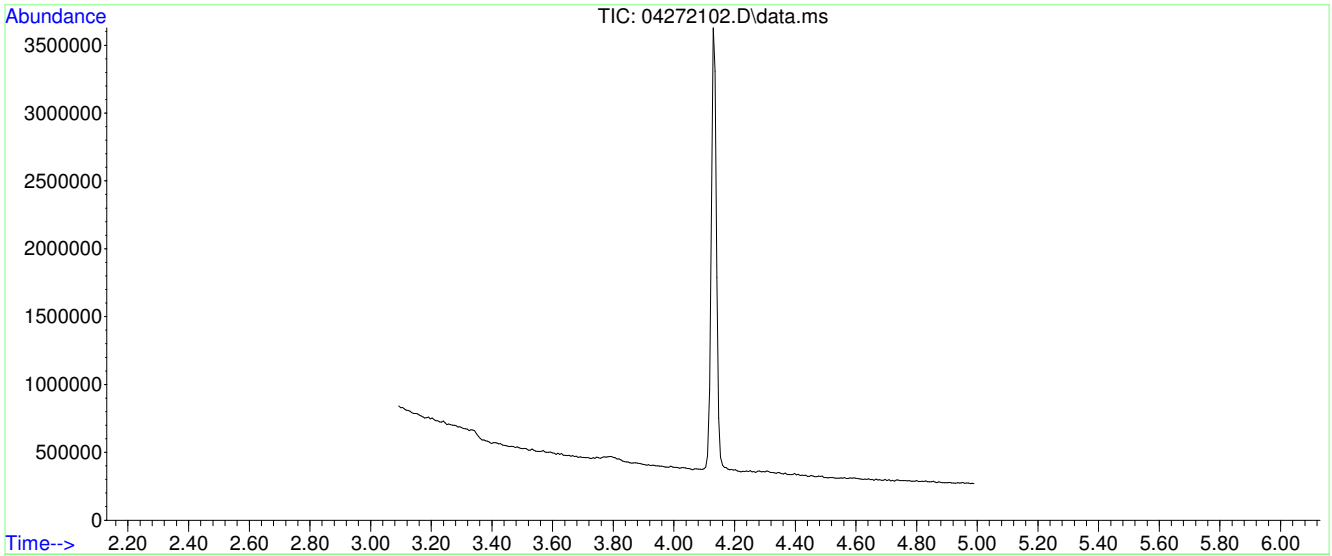
S21D071-TUN1

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272102.D
Acq On : 27 Apr 2021 12:09
Operator : TD
Sample : S21D071-TUN1
Misc : BFB 2117016
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Tue Feb 23 16:42:51 2021



AutoFind: Scans 170, 171, 172; Background Corrected with Scan 165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6	91850	PASS
75	95	30	60	45.8	270543	PASS
95	95	100	100	100.0	590101	PASS
96	95	5	9	6.6	38872	PASS
173	174	0.00	2	0.5	2392	PASS
174	95	50	120	81.2	478997	PASS
175	174	5	9	7.0	33744	PASS
176	174	95	101	97.2	465707	PASS
177	176	5	9	6.5	30451	PASS

Average of 4.123 to 4.136 min.: 04272102.D\data.ms
S21D071-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	3240	47.95	2263	61.00	20715	71.95	2704
37.10	18637	49.05	18369	62.00	22307	72.95	21936
38.05	16675	50.10	91850	63.00	16584	74.00	85381
39.00	7055	51.10	28403	63.95	1664	75.00	270543
40.00	328	52.05	1367	64.95	316	75.95	16405
41.15	7	55.00	1126	65.95	33	77.00	2988
42.85	152	56.00	7022	67.05	1105	77.90	3048
44.00	1483	57.00	11907	68.00	53192	78.95	11402
45.05	4016	58.00	653	69.00	53016	79.90	3764
46.00	570	59.10	180	70.00	3969	80.90	12627
47.00	6630	60.00	4030	71.00	196	81.90	2689

Average of 4.123 to 4.136 min.: 04272102.D\data.ms
S21D071-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	179	96.95	1277	114.95	688	125.90	325
85.00	24	102.95	431	115.90	1889	126.85	155
86.00	578	103.95	2012	116.90	3093	127.95	1933
87.00	23435	104.95	843	117.85	1956	128.95	764
88.00	22179	105.90	2079	118.85	2753	129.95	1760
90.90	1542	106.85	492	121.80	79	130.95	757
92.00	15005	109.70	92	122.10	52	131.95	278
93.00	22181	109.95	208	122.80	63	133.00	722
94.00	62835	110.95	454	123.85	238	133.80	241
95.00	590101	111.90	351	124.85	325	134.20	229
95.95	38872	113.05	633	125.10	163	134.95	968

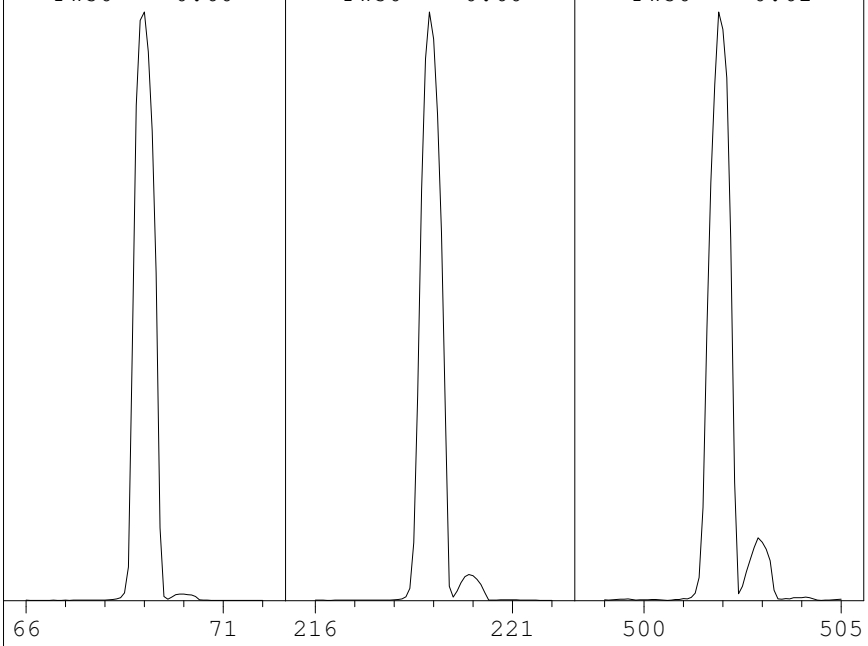
Average of 4.123 to 4.136 min.: 04272102.D\data.ms
S21D071-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.90	151	146.05	681	158.95	776	176.90	30451
136.90	981	146.95	563	160.95	645	177.95	1004
138.90	104	147.90	1181	161.80	74	179.00	300
139.95	293	148.90	389	162.85	277	181.00	114
140.90	4237	150.00	699	165.05	110	181.80	126
141.95	514	151.85	259	171.80	101	190.90	903
142.95	4326	152.95	475	172.00	114	191.95	132
143.90	310	154.00	312	172.90	2392	193.00	1057
144.90	268	154.90	1388	173.90	478997	194.00	129
145.10	133	155.85	228	174.90	33744	194.85	163
145.70	111	156.95	878	175.90	465707	203.10	63

Average of 4.123 to 4.136 min.: 04272102.D\data.ms
S21D071-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
204.95	247	266.80	82				
207.00	851	267.15	244				
207.95	100	281.05	13439				
208.95	39	282.05	3813				
232.00	117	283.05	2531				
234.80	64	284.05	442				
249.00	914	284.95	144				
249.90	309						
250.95	385						
265.00	1013						
265.95	257						

Mass	69.00	Mass	218.90	Mass	501.90
Ab	649953	Ab	402102	Ab	16679
Pw50	0.60	Pw50	0.60	Pw50	0.61

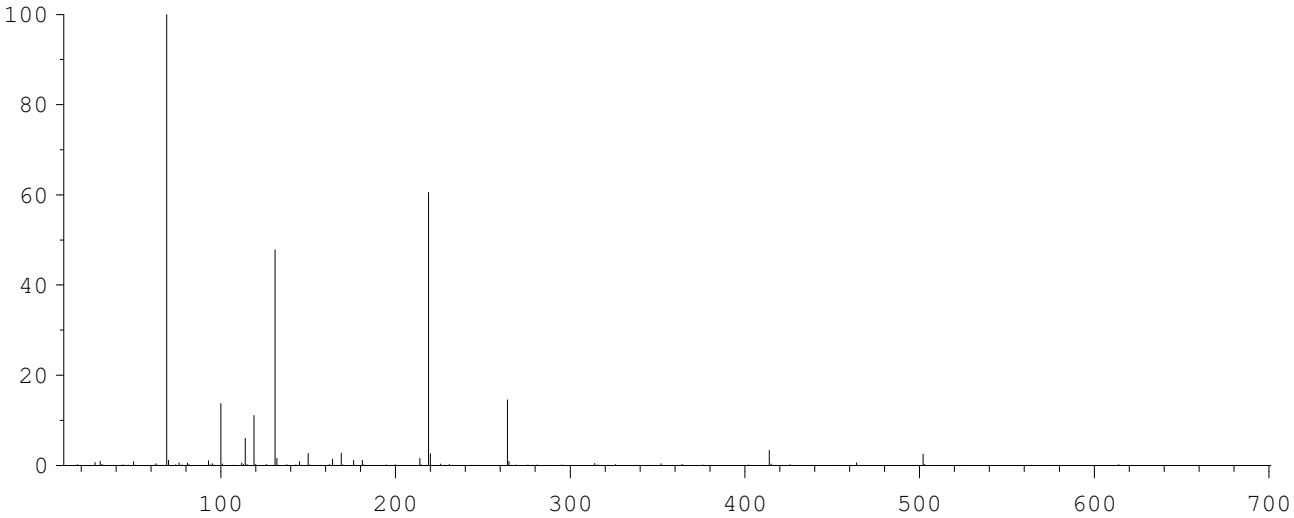


Ion Pol	Pos	MassGain	-1187
		MassOffs	-35
Emission	34.6	AmuGain	973
EIEnrgy	69.9	AmuOffs	123.63
Filament	1	Wid219	0.016
		DC Pol	Pos
Repeller	26.60		
IonFcus	75.0	HEDEnab	On
EntLens	22.0	EMVolts	1400
EntOffs	18.07		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

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
130 peaks Base: 69.00 Abundance: 637184



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	637184	100.00	70.00	7144	1.12
219.00	385408	60.49	220.00	16576	4.30
502.00	16089	2.53	503.00	1623	10.09

Air/Water Check: H20~0.20% N2~0.61% O2~0.25% CO2~0.10% N2/H2O~308.77%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 49461
Repeller Maximum 35 volts using ion 219; Gain Factor 0.49

MassGain Values(Samples): -1178(3) -1171(2) -1150(1) -1111(0) -1025(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	123.6	123.6	123.6	123.6	123.6	123.6	123.6
Entrance Lens Offset:	18.1	18.1	18.1	18.1	18.1	18.1	18.1

S21D071-CAL1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272103.D
Acq On : 27 Apr 2021 13:39
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL1
Misc : 2106037 25 mg/L (Sig #1); 2106037 5 mg/L (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 06:41:43 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration

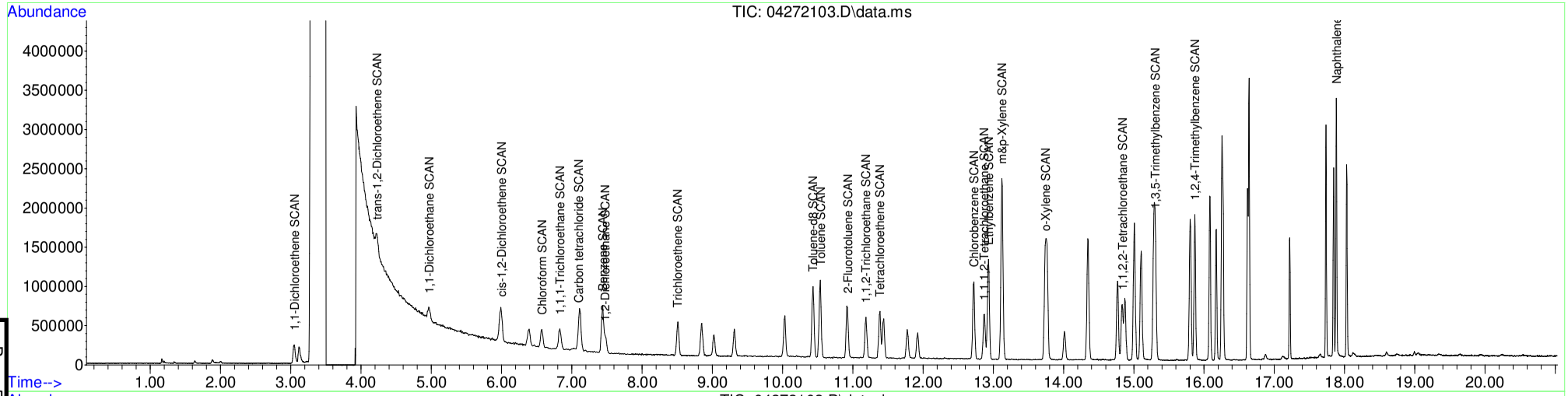
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	298435	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	1171980	22926.34 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 458.53%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.046	61	293830	22604.87 ug/L #	100
3] trans-1,2-Dichloroethene	4.221	61	253201	22634.33 ug/L #	99
4] 1,1-Dichloroethane	4.970	63	337778	22015.42 ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	333227	22666.94 ug/L #	100
6] Chloroform	6.564	83	376167	21741.67 ug/L #	99
7] 1,1,1-Trichloroethane	6.832	97	372047	23110.50 ug/L #	100
8] Carbon tetrachloride	7.099	117	332897	23736.10 ug/L #	100
9] Benzene	7.428	78	1043122	21458.91 ug/L #	98
10] 1,2-Dichloroethane	7.476	62	304547	22778.71 ug/L #	99
11] Trichloroethene	8.508	130	294319	22738.51 ug/L	99
13] Toluene	10.528	91	1422077	21371.82 ug/L	99
14] 1,1,2-Trichloroethane	11.179	97	316151	22839.27 ug/L #	99
15] Tetrachloroethene	11.389	166	383401	22524.33 ug/L #	100
16] Chlorobenzene	12.716	112	1106127	19195.65 ug/L #	98
17] 1,1,1,2-Tetrachloroethane	12.867	131	348494	22728.67 ug/L #	99
18] Ethylbenzene	12.923	91	1867379	21852.02 ug/L #	100
19] m&p-Xylene	13.122	91	2899625	43072.72 ug/L #	99
20] o-Xylene	13.733	91	1575353	21636.64 ug/L #	81
21] 1,1,2,2-Tetrachloroethane	14.831	83	700748	22085.04 ug/L #	100
22] 1,3,5-Trimethylbenzene	15.302	105	1795776	20999.62 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	1821274	20447.26 ug/L #	99
24] Naphthalene	17.883	128	3115941	18728.84 ug/L #	100
25) 2-Fluorotoluene SCAN	10.926	109	178630	4862.96 ug/L	93
26) 1,1-Dichloroethene SCAN	3.048	61	192417	24800.83 ug/L	98
27) trans-1,2-Dichloroethe...	4.226	61	167620	19970.69 ug/L	91
28) 1,1-Dichloroethane SCAN	4.969	63	238815	21230.71 ug/L	92
29) cis-1,2-Dichloroethene...	5.998	61	224300	19764.97 ug/L	99
30) Chloroform SCAN	6.575	83	250870	20902.96 ug/L	83
31) 1,1,1-Trichloroethane ...	6.830	97	227076	20249.77 ug/L	92
32) Carbon tetrachloride SCAN	7.098	117	194561	21026.89 ug/L	96
33) Benzene SCAN	7.438	78	642856	22833.01 ug/L	99
34) 1,2-Dichloroethane SCAN	7.475	62	203755	22955.04 ug/L	90
35) Trichloroethene SCAN	8.507	130	169460	23613.68 ug/L	83
36) Toluene-d8 SCAN	10.432	98	716764	22497.70 ug/L	97
37) Toluene SCAN	10.537	91	889568	21573.46 ug/L	97
38) 1,1,2-Trichloroethane ...	11.188	97	197411	20097.26 ug/L	93
39) Tetrachloroethene SCAN	11.387	166	200125	20154.26 ug/L	98
40) Chlorobenzene SCAN	12.723	112	652184	21216.69 ug/L	87
41) 1,1,1,2-Tetrachloroeth...	12.866	131	207443	22727.00 ug/L	97
42) Ethylbenzene SCAN	12.930	91	1151946	20957.03 ug/L	100
43) m&p-Xylene SCAN	13.120	91	1765740	21532.62 ug/L	97
44) o-Xylene SCAN	13.740	91	955334	21177.84 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.833	83	474209	21505.58 ug/L	99
46) 1,3,5-Trimethylbenzene...	15.306	105	1043493	21071.69 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.867	105	1073556	20933.23 ug/L	96
48) Naphthalene SCAN	17.881	128	1676777	17932.53 ug/L	96

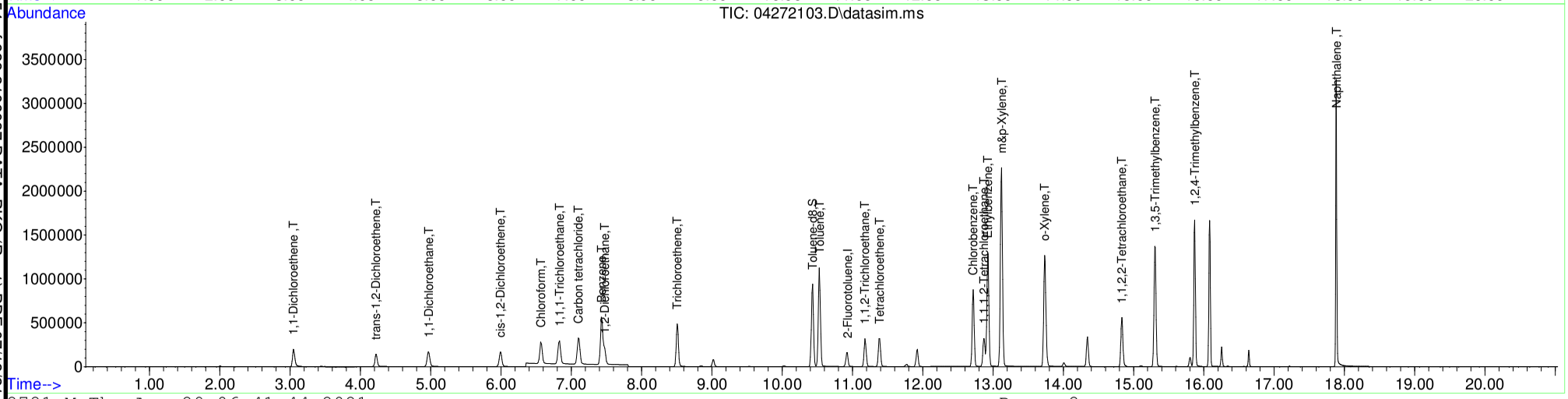
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272103.D
Acq On : 27 Apr 2021 13:39
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL1
Misc : 2106037 25 mg/L (Sig #1); 2106037 5 mg/L (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 06:41:43 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration





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S21D071-CAL2

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272104.D
Acq On : 27 Apr 2021 14:05
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL2
Misc : 2106038 10 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 06:41:46 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration

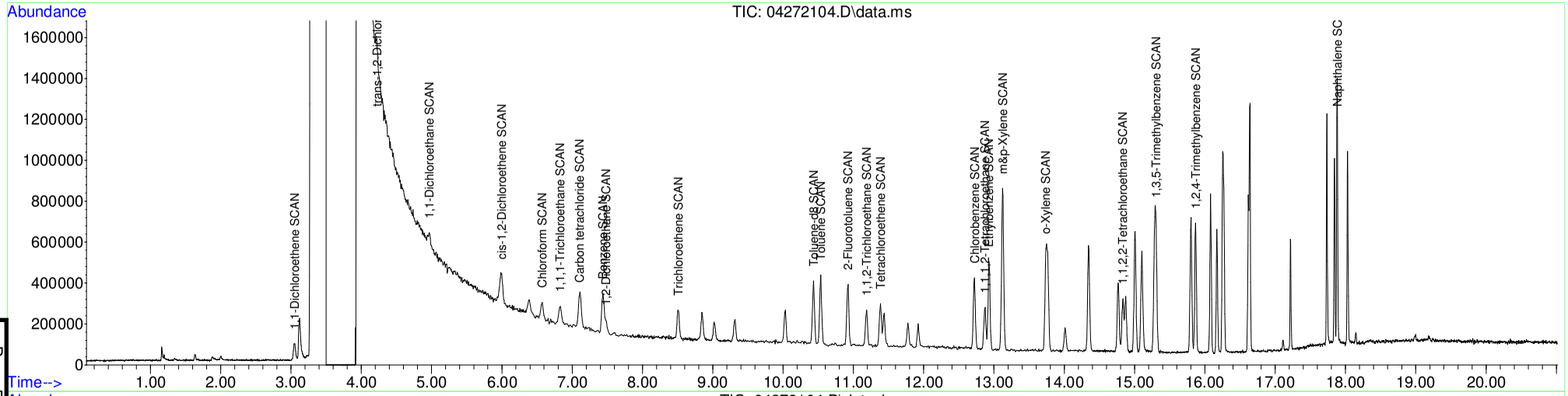
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	233035	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	389653	9761.60 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 195.23%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.049	61	103370	10184.25 ug/L #	99
3] trans-1,2-Dichloroethene	4.220	61	86586	9912.39 ug/L #	99
4] 1,1-Dichloroethane	4.964	63	116659	9737.39 ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	114126	9941.82 ug/L #	100
6] Chloroform	6.564	83	126371	9353.80 ug/L #	99
7] 1,1,1-Trichloroethane	6.831	97	122578	9751.08 ug/L #	100
8] Carbon tetrachloride	7.099	117	107392	9806.18 ug/L #	100
9] Benzene	7.427	78	343058	9037.92 ug/L #	98
10] 1,2-Dichloroethane	7.476	62	102333	9802.10 ug/L #	100
11] Trichloroethene	8.508	130	97297	9626.58 ug/L	99
13] Toluene	10.528	91	478455	9208.48 ug/L	100
14] 1,1,2-Trichloroethane	11.178	97	104153	9635.80 ug/L #	99
15] Tetrachloroethene	11.388	166	128094	9637.32 ug/L #	100
16] Chlorobenzene	12.716	112	374195	8316.19 ug/L #	98
17] 1,1,1,2-Tetrachloroethane	12.867	131	115778	9670.15 ug/L #	100
18] Ethylbenzene	12.923	91	633442	9492.80 ug/L #	100
19] m&p-Xylene	13.121	91	988601	18806.59 ug/L #	100
20] o-Xylene	13.733	91	542171	9536.23 ug/L #	81
21] 1,1,2,2-Tetrachloroethane	14.831	83	238321	9618.94 ug/L #	99
22] 1,3,5-Trimethylbenzene	15.302	105	637032	9540.02 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	655185	9420.03 ug/L #	100
24] Naphthalene	17.882	128	1246030	9591.33 ug/L #	100
25) 2-Fluorotoluene SCAN	10.925	109	135767	4733.35 ug/L	98
26) 1,1-Dichloroethene SCAN	3.055	61	67220	11095.58 ug/L	91
27) trans-1,2-Dichloroethe...	4.219	61	55565	8478.07 ug/L	93
28) 1,1-Dichloroethane SCAN	4.969	63	84947	9671.18 ug/L	90
29) cis-1,2-Dichloroethene...	5.997	61	80472	9081.14 ug/L	99
30) Chloroform SCAN	6.575	83	82635	8817.63 ug/L	88
31) 1,1,1-Trichloroethane ...	6.830	97	76834	8774.67 ug/L	94
32) Carbon tetrachloride SCAN	7.098	117	63998	8857.56 ug/L	94
33) Benzene SCAN	7.438	78	216716	9857.55 ug/L	99
34) 1,2-Dichloroethane SCAN	7.475	62	72800	10503.40 ug/L	92
35) Trichloroethene SCAN	8.507	130	58875	10506.45 ug/L	84
36) Toluene-d8 SCAN	10.432	98	246826	9921.59 ug/L	98
37) Toluene SCAN	10.537	91	300281	9326.04 ug/L	96
38) 1,1,2-Trichloroethane ...	11.188	97	69633	9078.40 ug/L	94
39) Tetrachloroethene SCAN	11.387	166	70716	9120.36 ug/L	94
40) Chlorobenzene SCAN	12.723	112	222037	9250.42 ug/L	89
41) 1,1,1,2-Tetrachloroeth...	12.874	131	66359	9310.48 ug/L	91
42) Ethylbenzene SCAN	12.929	91	389732	9080.14 ug/L	99
43) m&p-Xylene SCAN	13.120	91	603243	9420.87 ug/L	97
44) o-Xylene SCAN	13.740	91	330781	9390.65 ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.833	83	163895	9518.66 ug/L	99
46) 1,3,5-Trimethylbenzene...	15.301	105	368870	9539.19 ug/L	96
47) 1,2,4-Trimethylbenzene...	15.867	105	371944	9287.91 ug/L	98
48) Naphthalene SCAN	17.881	128	678137	9287.79 ug/L	97

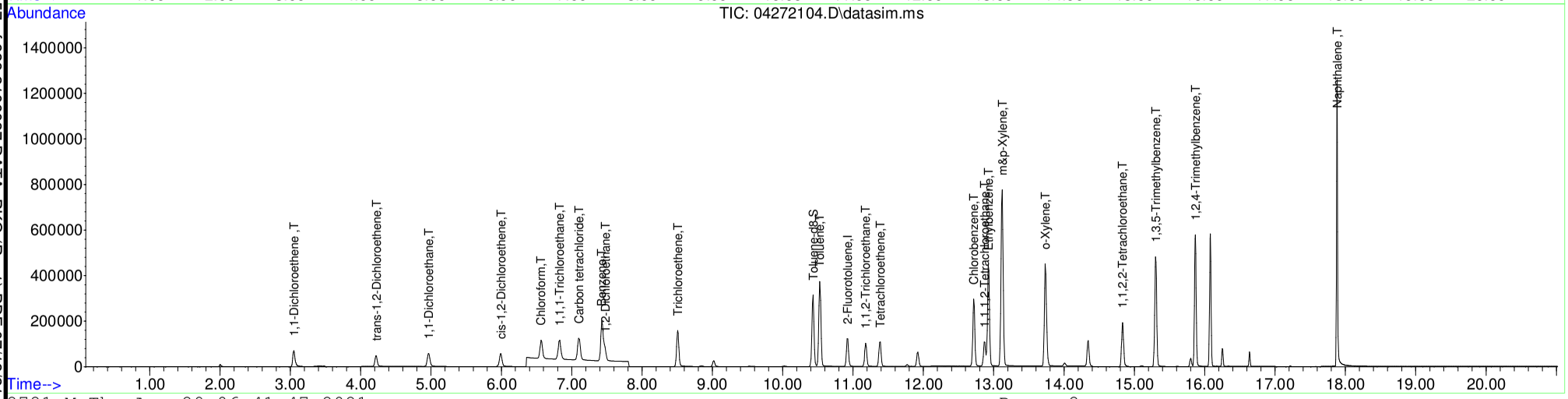
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272104.D
Acq On : 27 Apr 2021 14:05
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL2
Misc : 2106038 10 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 06:41:46 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration





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S21D071-CAL3

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272105.D
Acq On : 27 Apr 2021 14:31
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL3
Misc : 2106039 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 06:41:49 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration

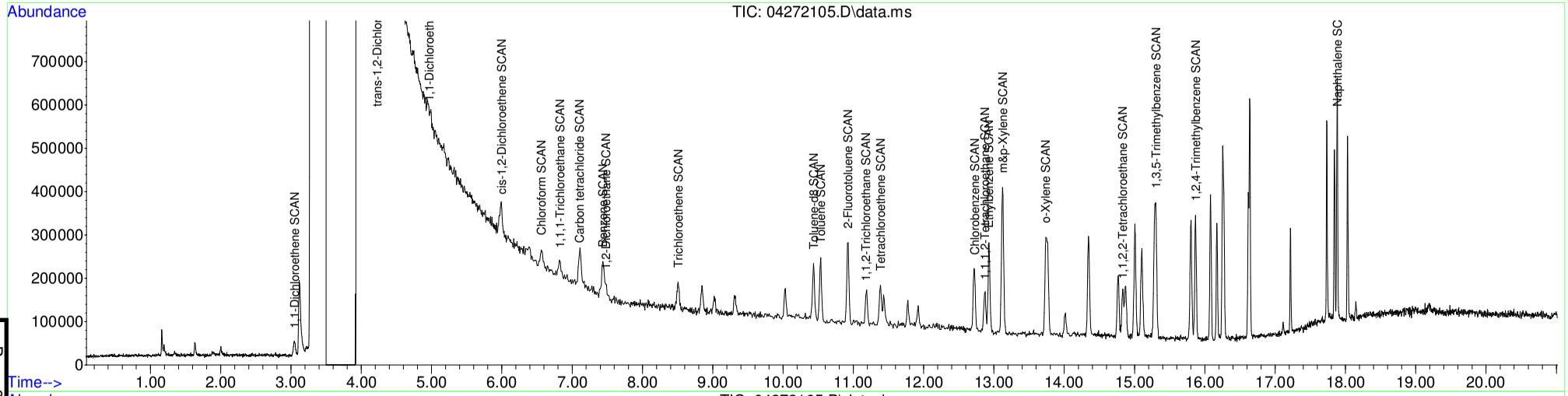
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	193782	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	169690	5112.19 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 102.24%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.049	61	42634	5051.24 ug/L #	98
3] trans-1,2-Dichloroethene	4.214	61	37243	5127.23 ug/L #	100
4] 1,1-Dichloroethane	4.964	63	50670	5086.08 ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	49087	5142.28 ug/L #	100
6] Chloroform	6.564	83	54459	4847.50 ug/L #	100
7] 1,1,1-Trichloroethane	6.819	97	53002	5070.37 ug/L #	100
8] Carbon tetrachloride	7.099	117	46388	5093.79 ug/L #	100
9] Benzene	7.427	78	147886	4685.28 ug/L #	99
10] 1,2-Dichloroethane	7.464	62	43635	5026.27 ug/L #	98
11] Trichloroethene	8.508	130	42626	5071.71 ug/L	99
13] Toluene	10.528	91	211024	4884.12 ug/L	100
14] 1,1,2-Trichloroethane	11.179	97	45547	5067.38 ug/L #	100
15] Tetrachloroethene	11.378	166	56975	5154.89 ug/L #	100
16] Chlorobenzene	12.716	112	165328	4418.56 ug/L #	100
17] 1,1,1,2-Tetrachloroethane	12.867	131	51065	5129.07 ug/L #	100
18] Ethylbenzene	12.923	91	281087	5065.66 ug/L #	100
19] m&p-Xylene	13.121	91	438149	10023.48 ug/L #	100
20] o-Xylene	13.733	91	238414	5042.90 ug/L #	81
21] 1,1,2,2-Tetrachloroethane	14.831	83	104335	5064.10 ug/L #	100
22] 1,3,5-Trimethylbenzene	15.302	105	282101	5080.43 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.863	105	290452	5021.93 ug/L #	99
24] Naphthalene	17.882	128	558045	5165.68 ug/L #	100
25) 2-Fluorotoluene SCAN	10.915	109	119258	5000.00 ug/L	100
26) 1,1-Dichloroethene SCAN	3.052	61	25189	5000.00 ug/L	97
27) trans-1,2-Dichloroethe...	4.219	61	27250	5000.00 ug/L	89
28) 1,1-Dichloroethane SCAN	4.969	63	36520	5000.00 ug/L	86
29) cis-1,2-Dichloroethene...	5.997	61	36844	5000.00 ug/L	96
30) Chloroform SCAN	6.563	83	38965	5000.00 ug/L	92
31) 1,1,1-Trichloroethane ...	6.830	97	36407	5000.00 ug/L	97
32) Carbon tetrachloride SCAN	7.098	117	30041	5000.00 ug/L	95
33) Benzene SCAN	7.438	78	91408	5000.00 ug/L	100
34) 1,2-Dichloroethane SCAN	7.475	62	28818	5000.00 ug/L	92
35) Trichloroethene SCAN	8.507	130	23299	5000.00 ug/L	76
36) Toluene-d8 SCAN	10.432	98	103436	5000.00 ug/L	94
37) Toluene SCAN	10.537	91	133873	5000.00 ug/L	98
38) 1,1,2-Trichloroethane ...	11.177	97	31891	5000.00 ug/L	93
39) Tetrachloroethene SCAN	11.387	166	32238	5000.00 ug/L	94
40) Chlorobenzene SCAN	12.723	112	99799	5000.00 ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.866	131	29634	5000.00 ug/L	92
42) Ethylbenzene SCAN	12.929	91	178458	5000.00 ug/L	98
43) m&p-Xylene SCAN	13.120	91	266234	5000.00 ug/L	97
44) o-Xylene SCAN	13.740	91	146456	5000.00 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.826	83	71590	5000.00 ug/L	99
46) 1,3,5-Trimethylbenzene...	15.301	105	160777	5000.00 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.867	105	166503	5000.00 ug/L	97
48) Naphthalene SCAN	17.881	128	303576	5000.00 ug/L	98

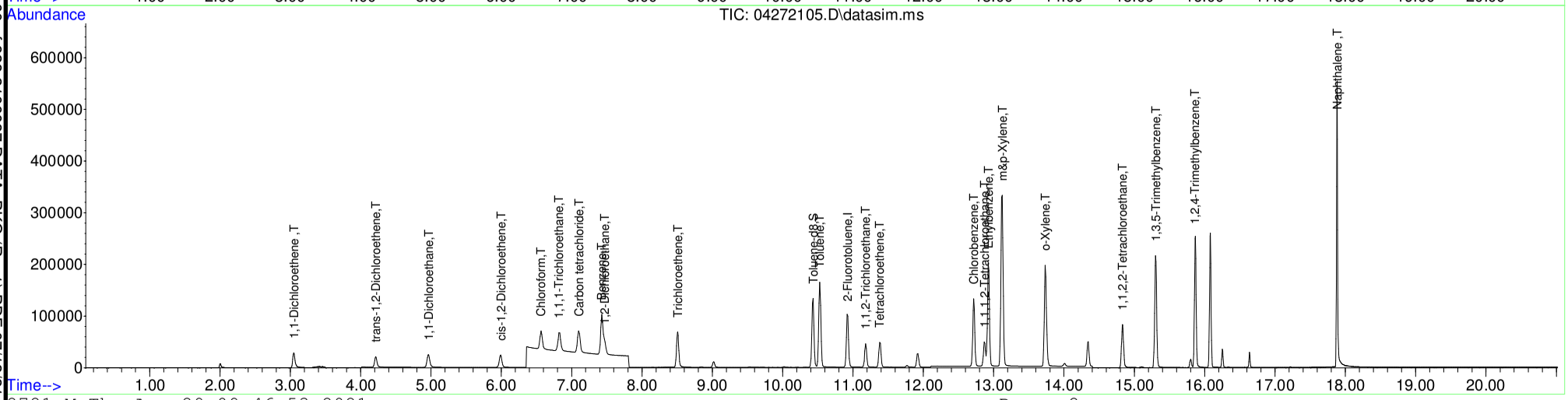
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272105.D
Acq On : 27 Apr 2021 14:31
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL3
Misc : 2106039 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 06:41:49 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration





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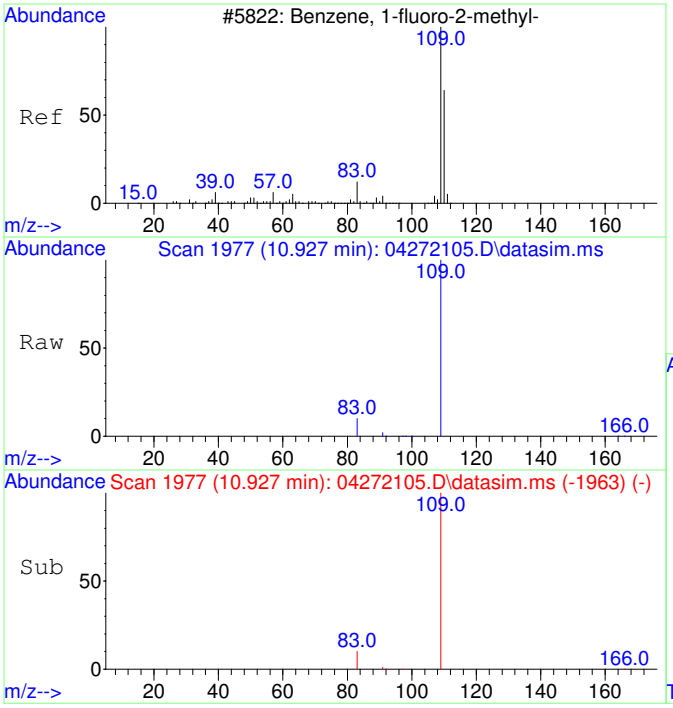
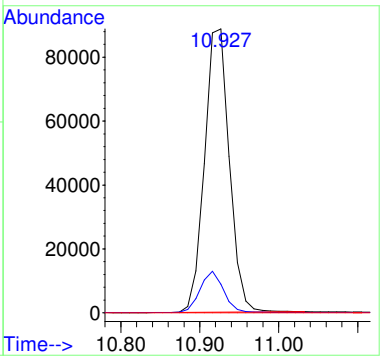
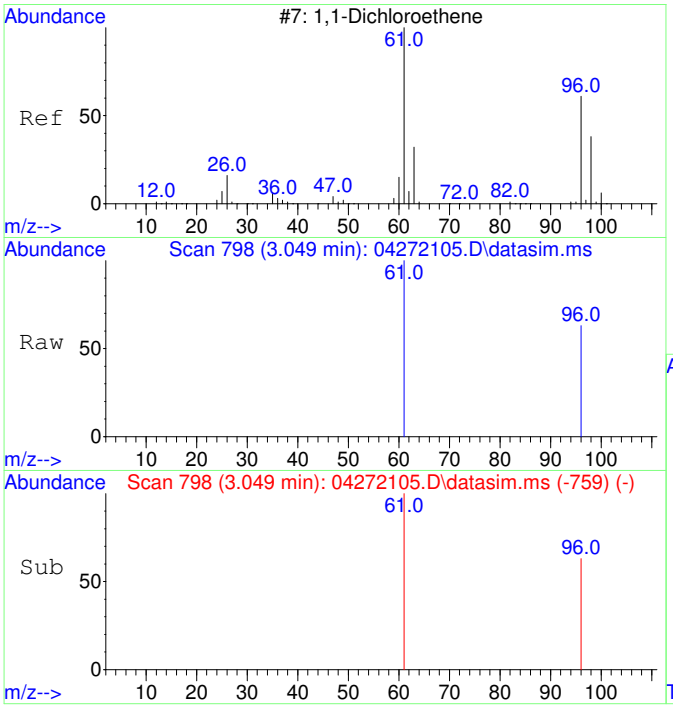


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:109 Resp: 193782

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	43.7
110	0.0	0.0	20.0

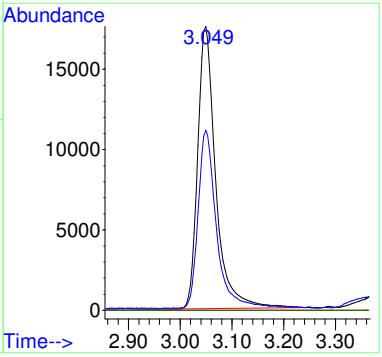


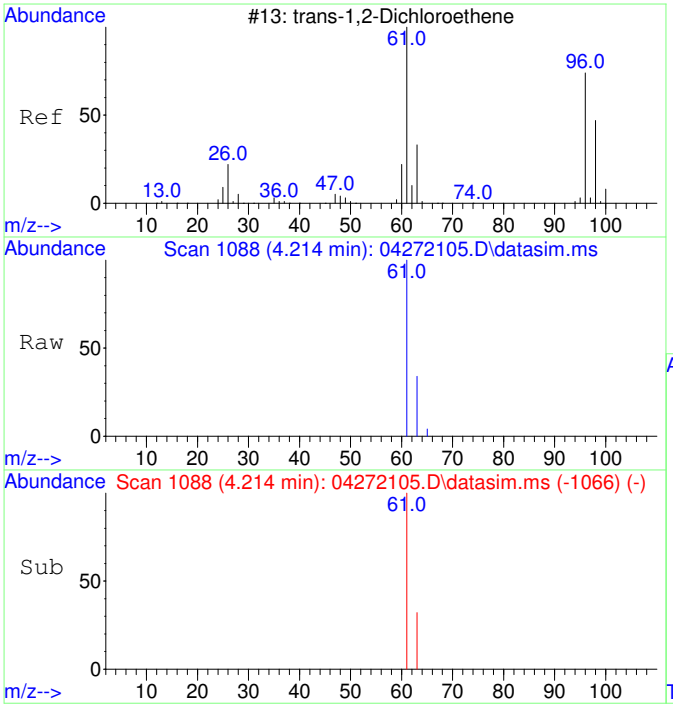


#2
1,1-Dichloroethene
Concen: 5051.24 ug/L
RT: 3.049 min Scan# 798
Delta R.T. -0.004 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 61 Resp: 42634

Ion	Ratio	Lower	Upper
61	100		
96	63.5	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

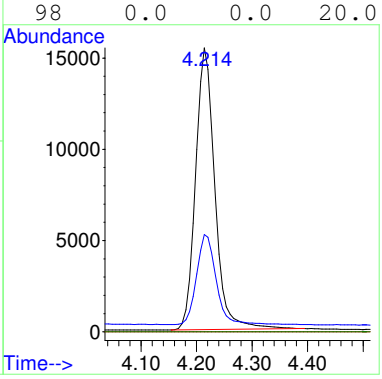


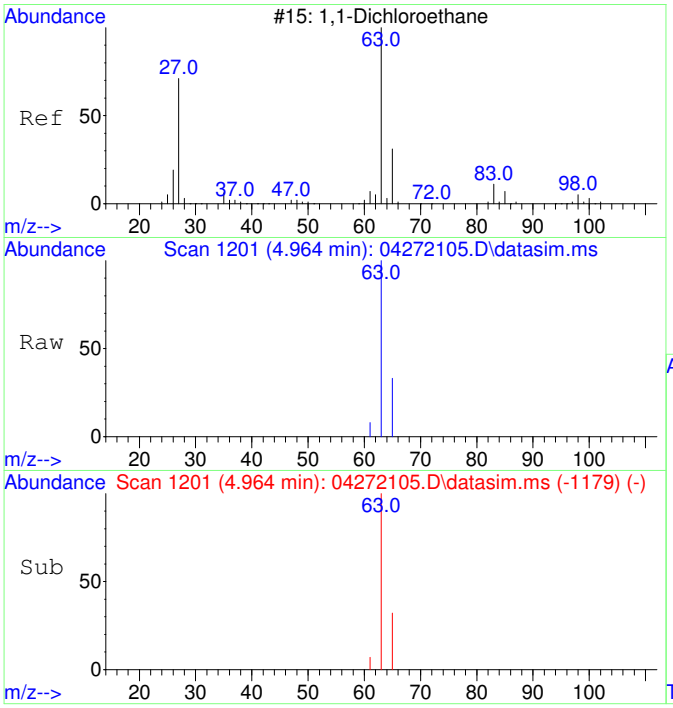


#3
trans-1,2-Dichloroethene
Concen: 5127.23 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. -0.007 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 61 Resp: 37243

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

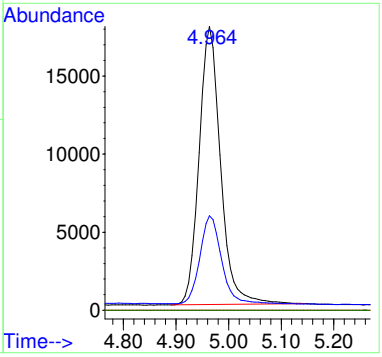


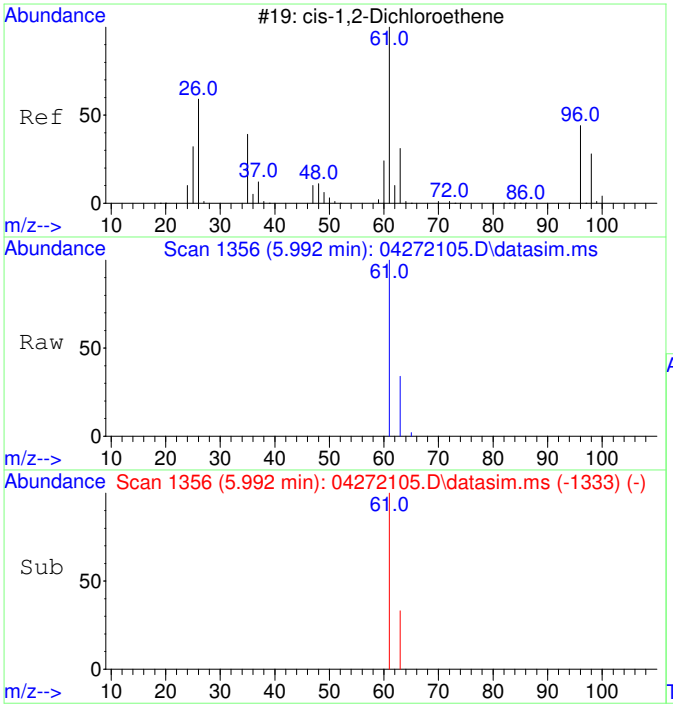


#4
1,1-Dichloroethane
Concen: 5086.08 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. -0.007 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 63 Resp: 50670

Ion	Ratio	Lower	Upper
63	100		
65	31.9	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

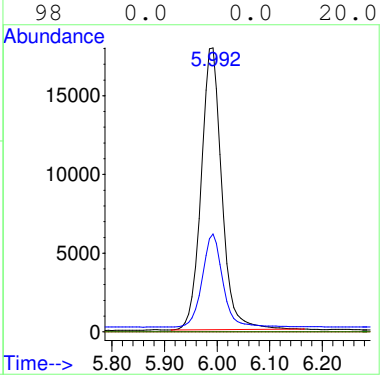


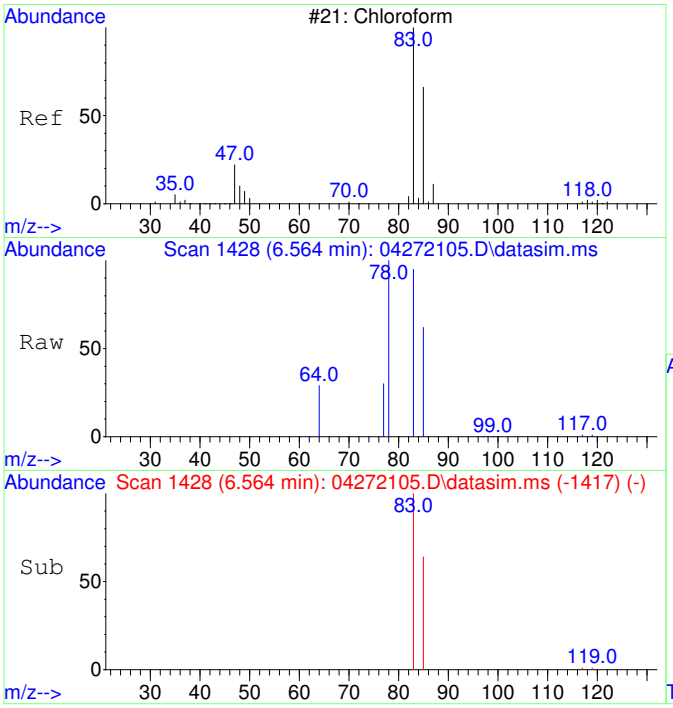


#5
cis-1,2-Dichloroethene
Concen: 5142.28 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 61 Resp: 49087

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

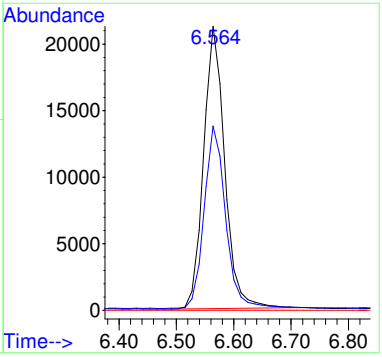


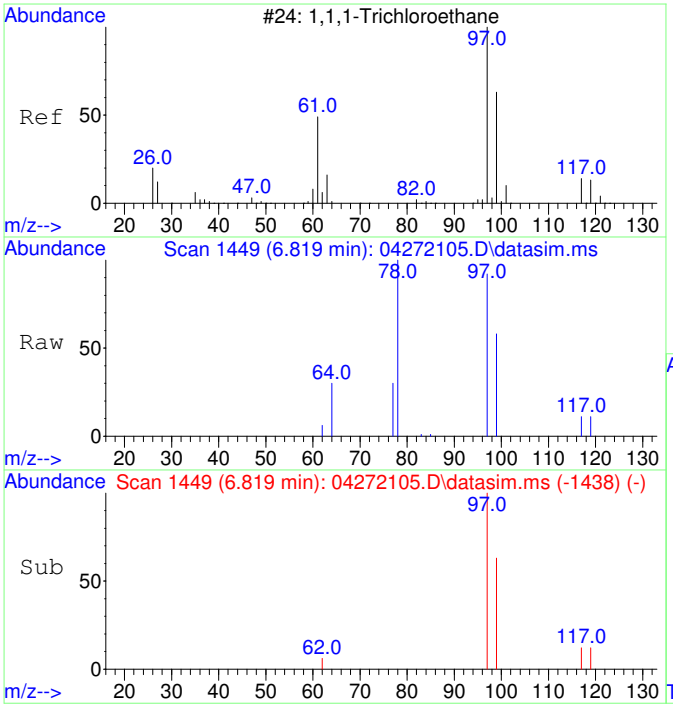


#6
Chloroform
Concen: 4847.50 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.012 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 83 Resp: 54459

Ion	Ratio	Lower	Upper
83	100		
85	64.7	34.5	94.5
87	0.0	0.0	20.0

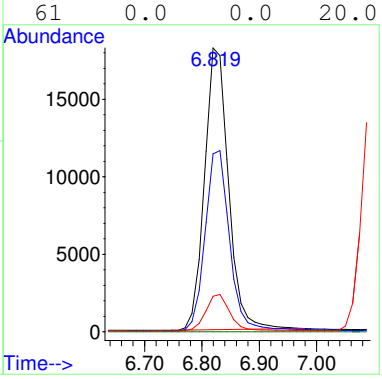


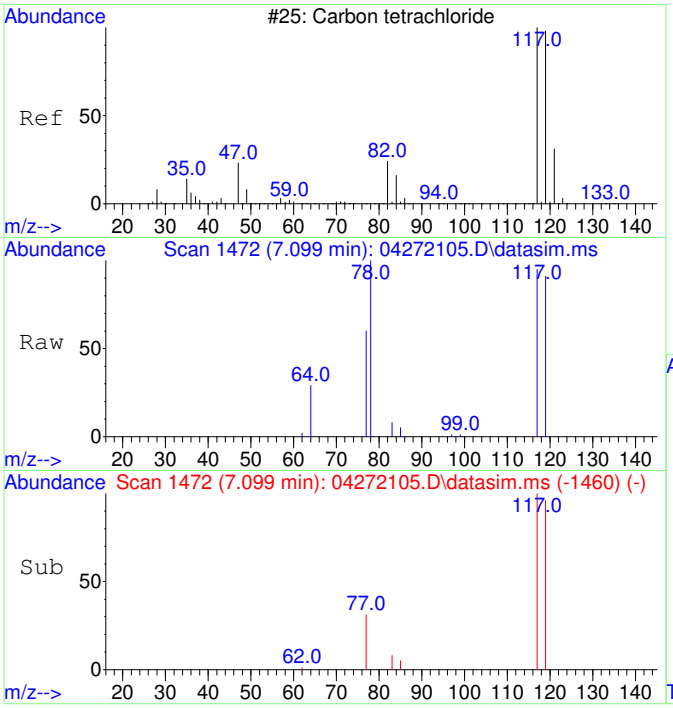


#7
1,1,1-Trichloroethane
Concen: 5070.37 ug/L
RT: 6.819 min Scan# 1449
Delta R.T. -0.012 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 97 Resp: 53002

Ion	Ratio	Lower	Upper
97	100		
99	64.2	34.4	94.4
117	12.8	0.0	42.8
61	0.0	0.0	20.0

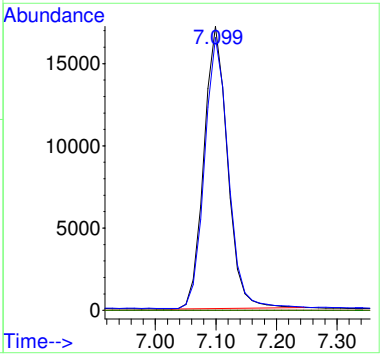


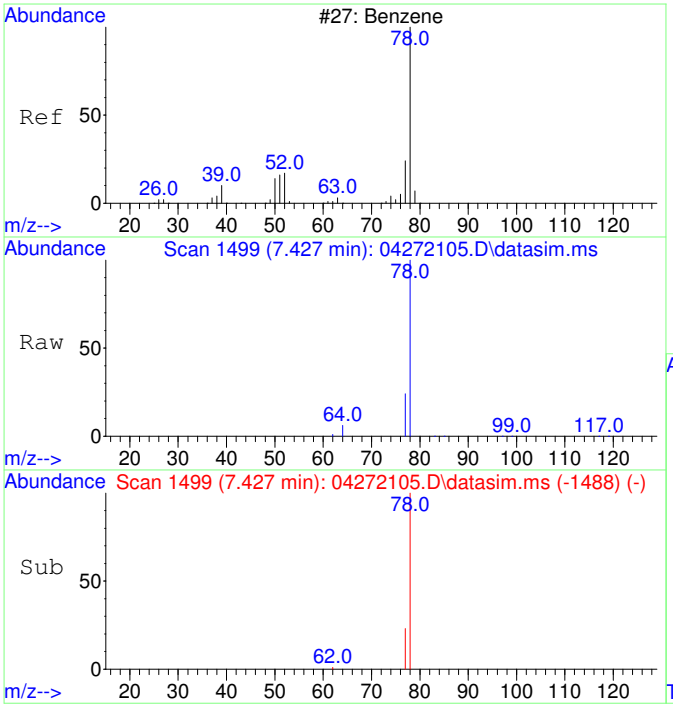


#8
Carbon tetrachloride
Concen: 5093.79 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:117 Resp: 46388

Ion	Ratio	Lower	Upper
117	100		
119	96.0	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

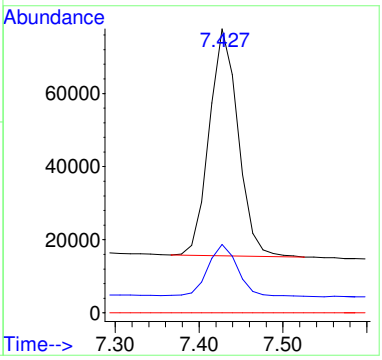


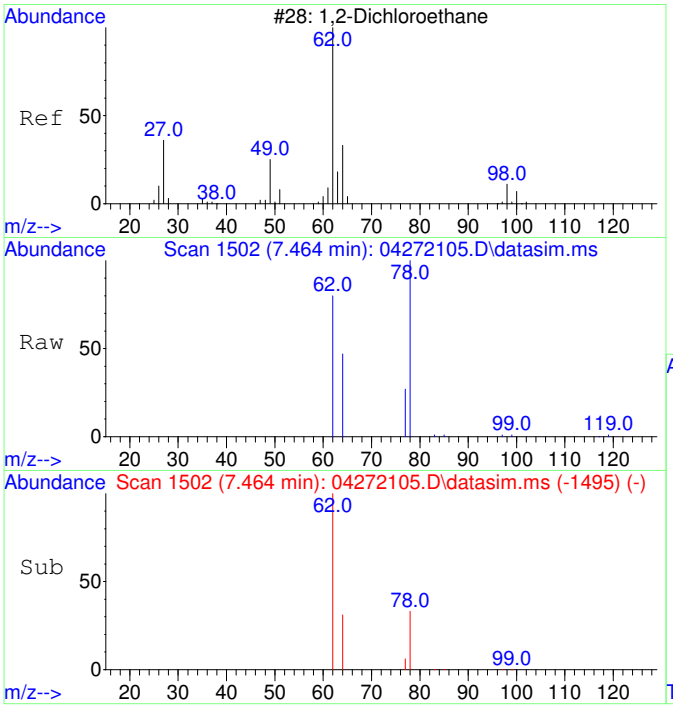


#9
Benzene
Concen: 4685.28 ug/L
RT: 7.427 min Scan# 1499
Delta R.T. -0.012 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 78 Resp: 147886

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.7
52	0.0	0.0	20.0

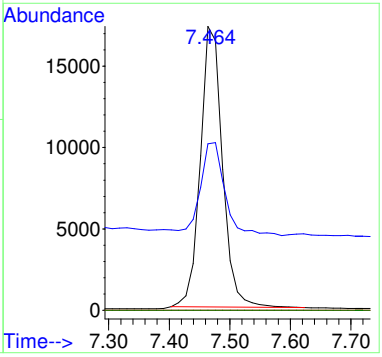


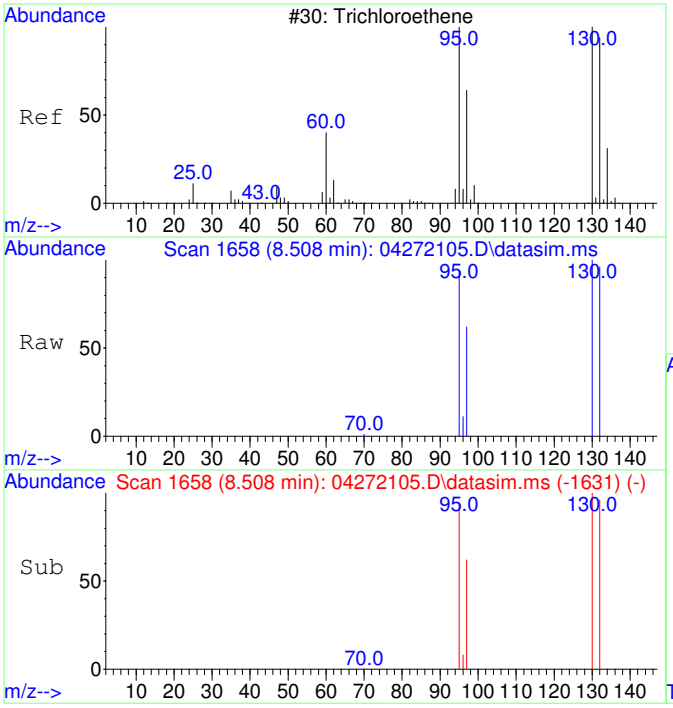


#10
1,2-Dichloroethane
Concen: 5026.27 ug/L
RT: 7.464 min Scan# 1502
Delta R.T. -0.012 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 62 Resp: 43635

Ion	Ratio	Lower	Upper
62	100		
64	32.9	1.7	61.7
98	0.0	0.0	20.0
100	0.0	0.0	20.0

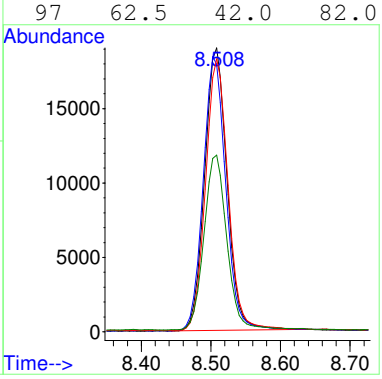


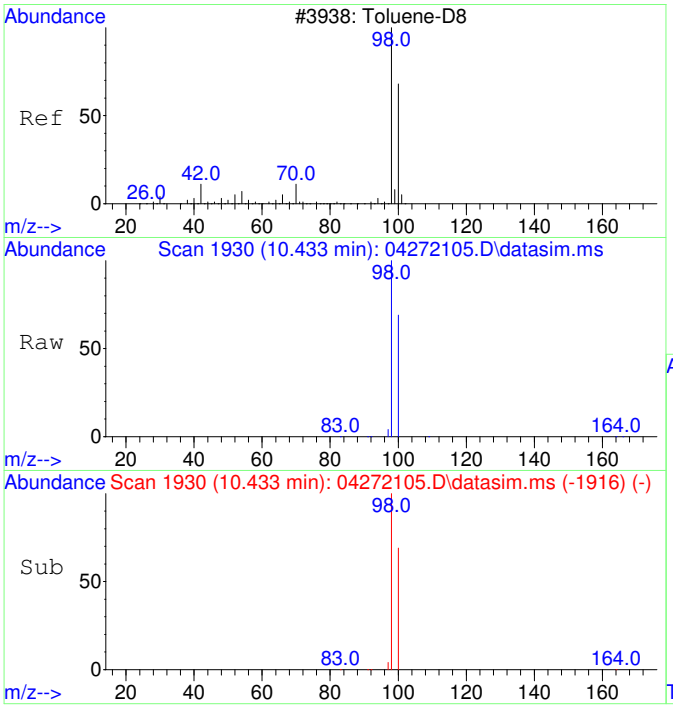


#11
Trichloroethene
Concen: 5071.71 ug/L
RT: 8.508 min Scan# 1658
Delta R.T. -0.005 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:130 Resp: 42626

Ion	Ratio	Lower	Upper
130	100		
95	97.1	65.8	125.8
132	95.9	75.8	115.8
97	62.5	42.0	82.0

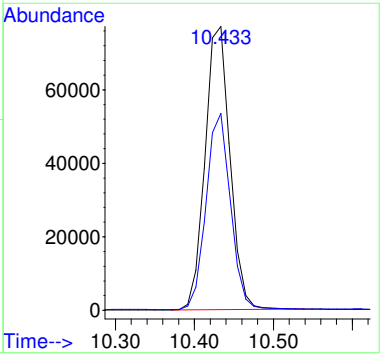


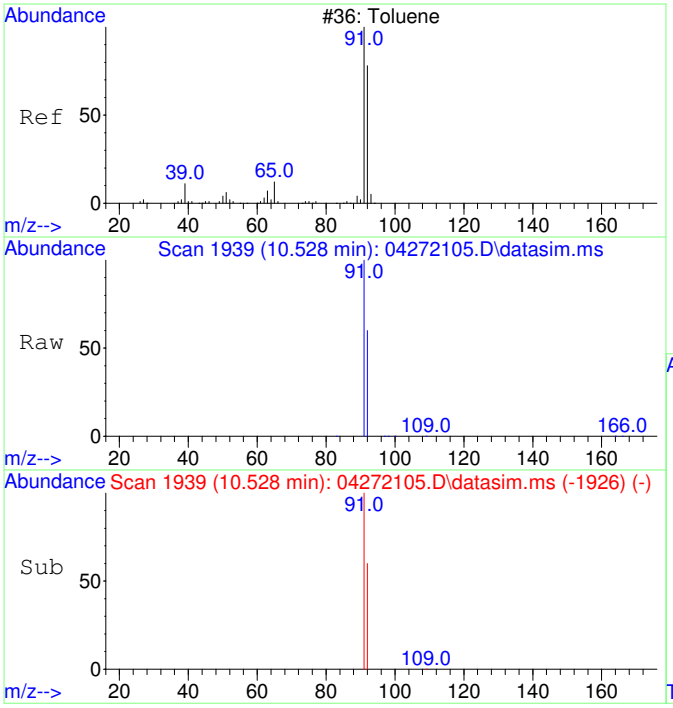


#12
Toluene-d8
Concen: 5112.19 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 98 Resp: 169690

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.3	97.3

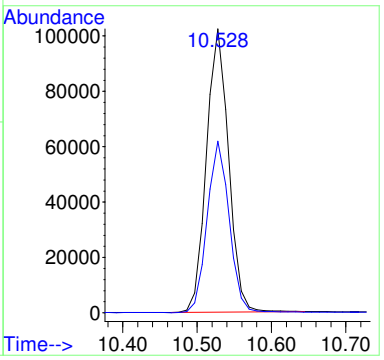


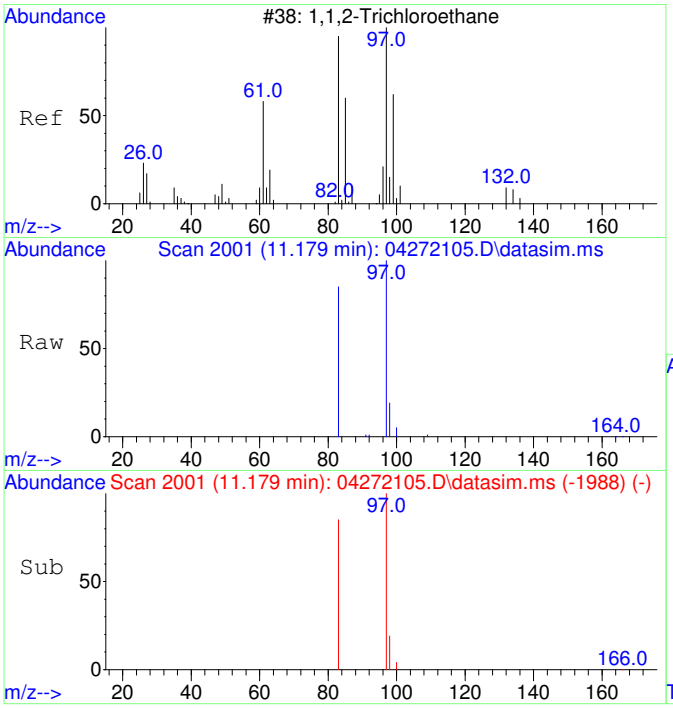


#13
Toluene
Concen: 4884.12 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.010 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 91 Resp: 211024

Ion	Ratio	Lower	Upper
91	100		
92	60.0	30.2	90.2

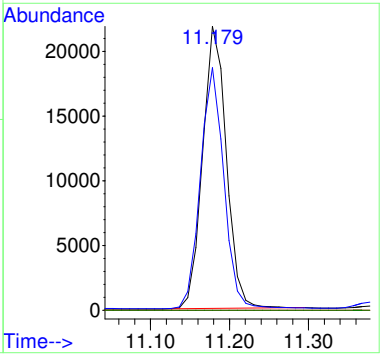


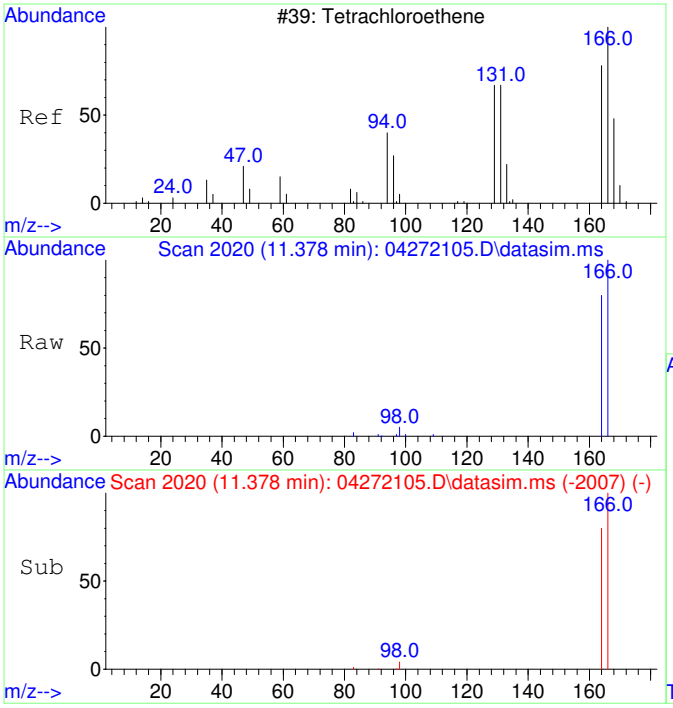


#14
1,1,2-Trichloroethane
Concen: 5067.38 ug/L
RT: 11.179 min Scan# 2001
Delta R.T. -0.010 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 97 Resp: 45547

Ion	Ratio	Lower	Upper
97	100		
83	83.7	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

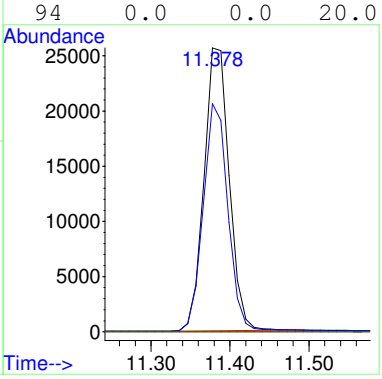


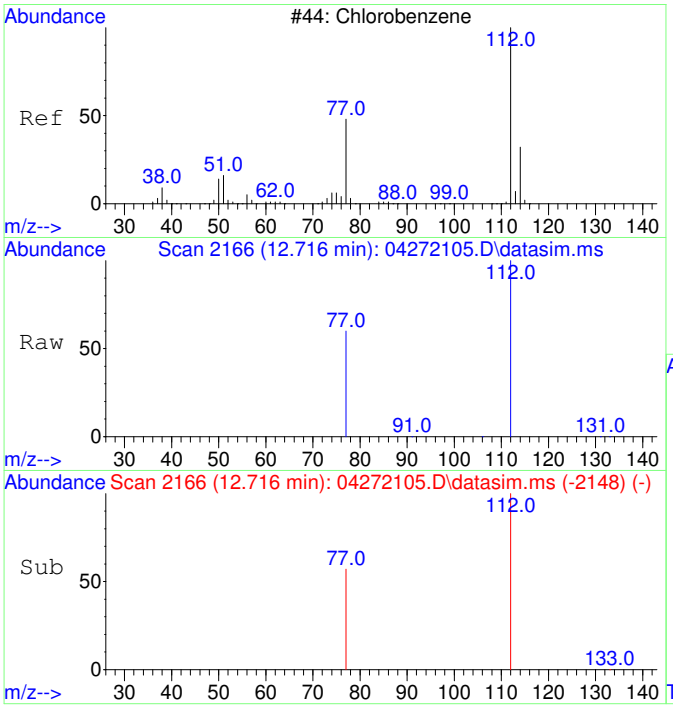


#15
Tetrachloroethene
Concen: 5154.89 ug/L
RT: 11.378 min Scan# 2020
Delta R.T. -0.010 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:166 Resp: 56975

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

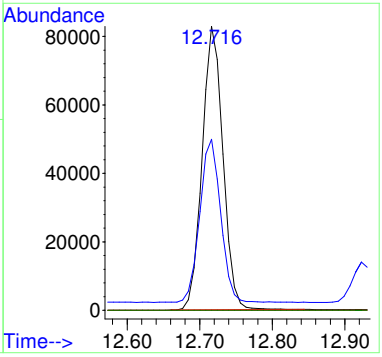


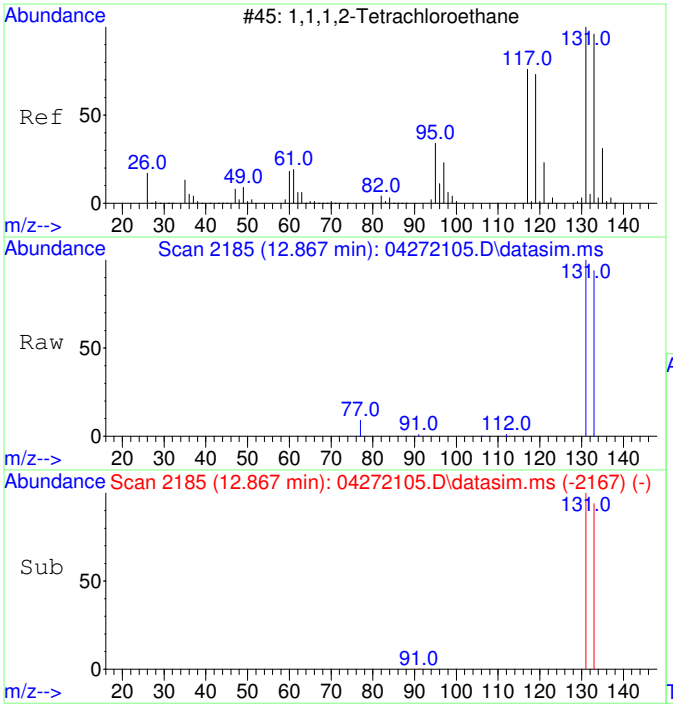


#16
Chlorobenzene
Concen: 4418.56 ug/L
RT: 12.716 min Scan# 2166
Delta R.T. -0.008 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:112 Resp: 165328

Ion	Ratio	Lower	Upper
112	100		
77	57.4	27.0	87.0
114	0.0	0.0	20.0
51	0.0	0.0	20.0

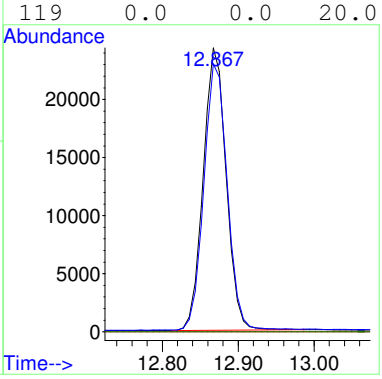


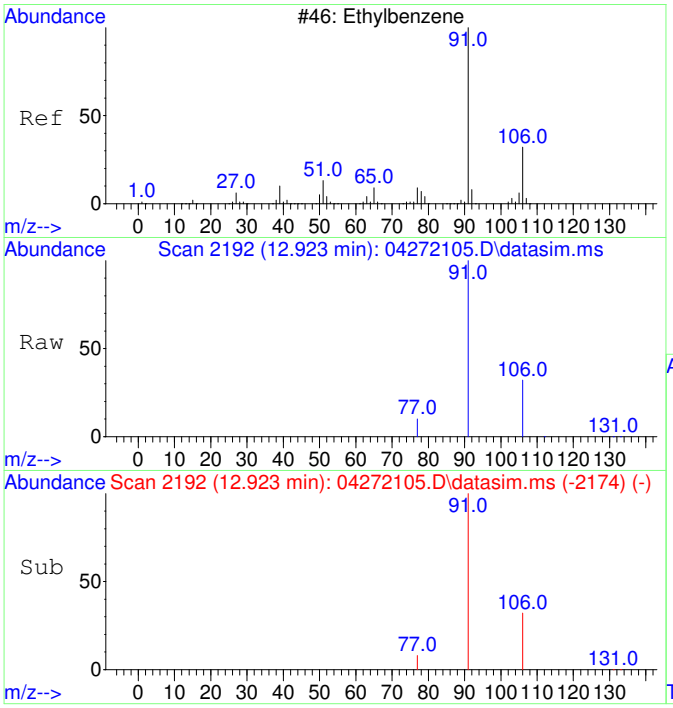


#17
1,1,1,2-Tetrachloroethane
Concen: 5129.07 ug/L
RT: 12.867 min Scan# 2185
Delta R.T. -0.008 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:131 Resp: 51065

Ion	Ratio	Lower	Upper
131	100		
133	95.4	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

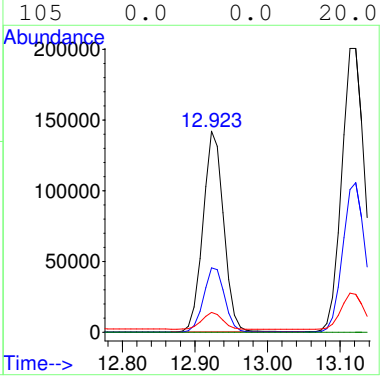


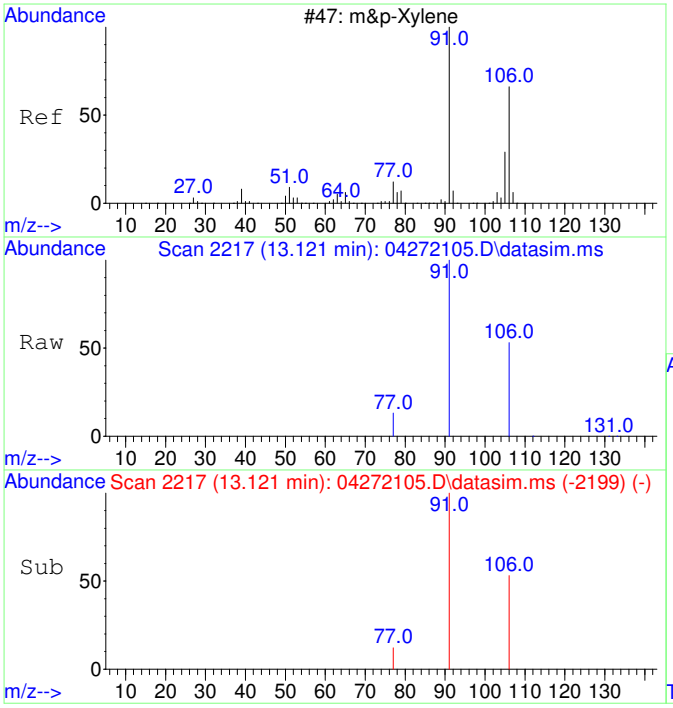


#18
Ethylbenzene
Concen: 5065.66 ug/L
RT: 12.923 min Scan# 2192
Delta R.T. -0.008 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 91 Resp: 281087

Ion	Ratio	Lower	Upper
91	100		
106	32.6	2.8	62.8
77	8.2	0.0	38.2
105	0.0	0.0	20.0

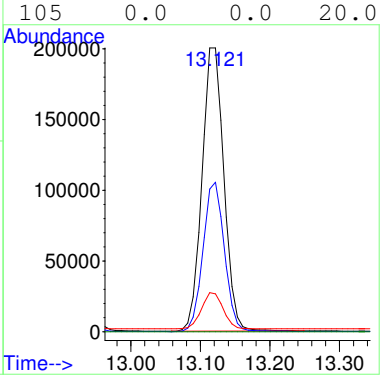


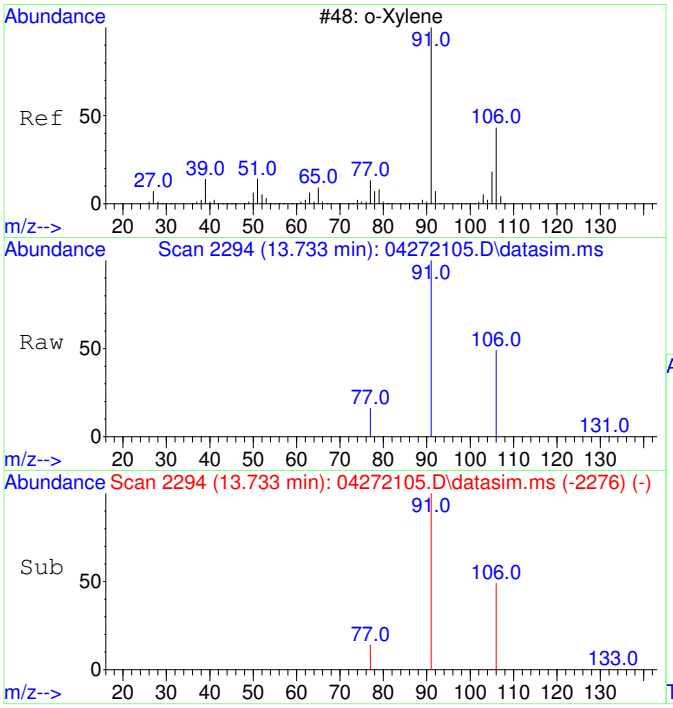


#19
m&p-Xylene
Concen: 10023.48 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. -0.008 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 91 Resp: 438149

Ion	Ratio	Lower	Upper
91	100		
106	51.6	21.4	81.4
77	12.6	0.0	42.7
105	0.0	0.0	20.0

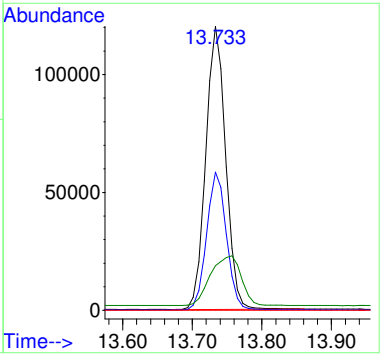


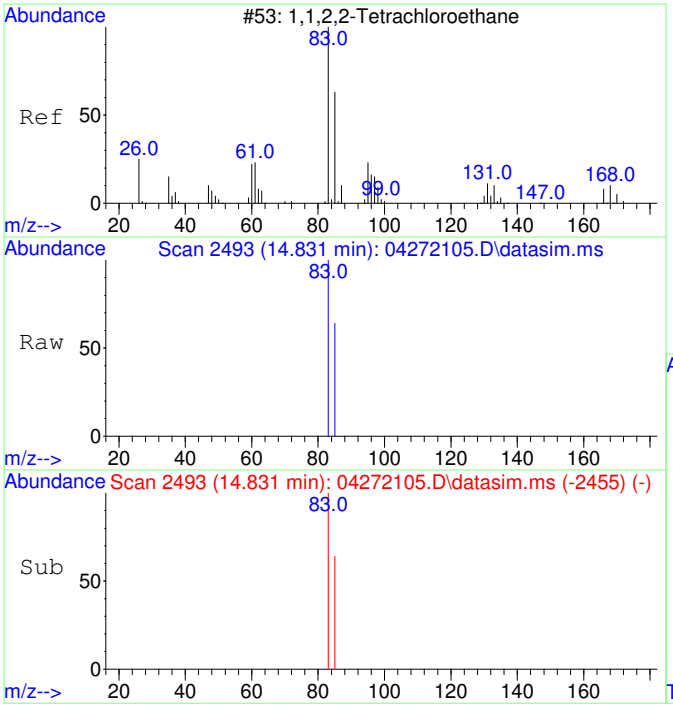


#20
o-Xylene
Concen: 5042.90 ug/L
RT: 13.733 min Scan# 2294
Delta R.T. -0.008 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 91 Resp: 238414

Ion	Ratio	Lower	Upper
91	100		
106	48.7	18.7	78.7
105	0.0	0.0	30.0
77	0.0	7.3	47.3#

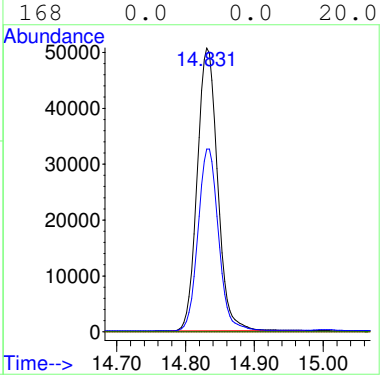


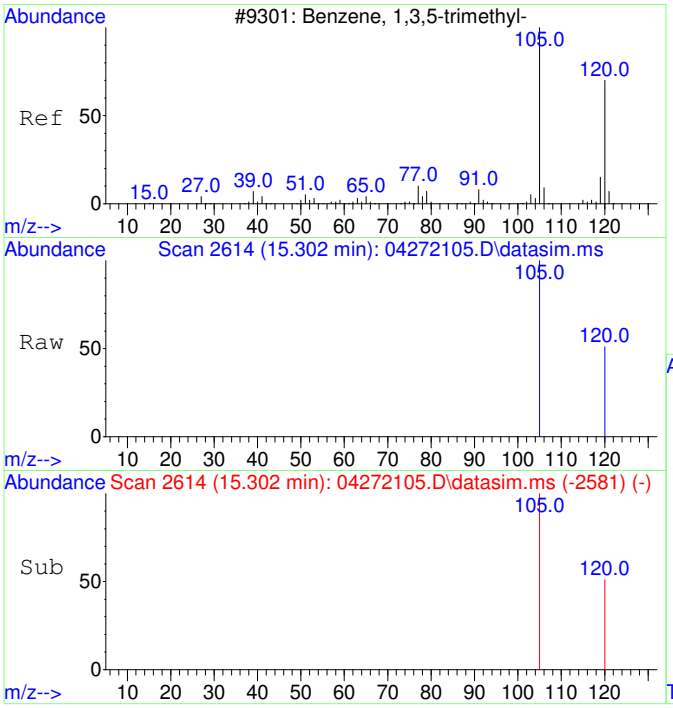


#21
1,1,2,2-Tetrachloroethane
Concen: 5064.10 ug/L
RT: 14.831 min Scan# 2493
Delta R.T. -0.007 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 83 Resp: 104335

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

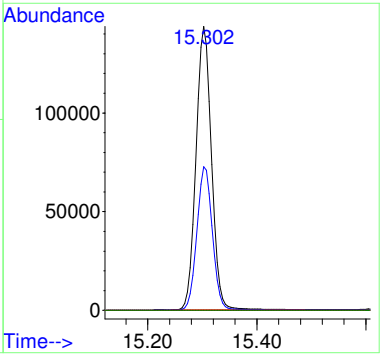


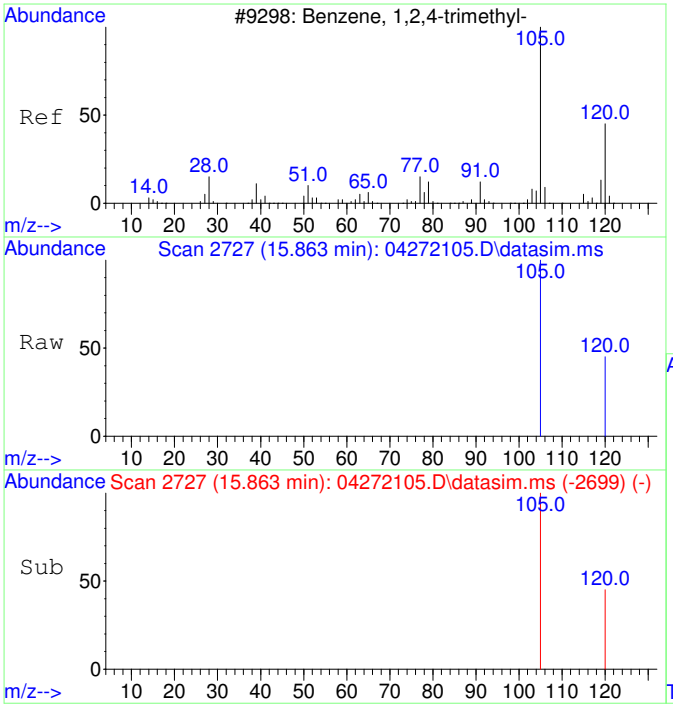


#22
1,3,5-Trimethylbenzene
Concen: 5080.43 ug/L
RT: 15.302 min Scan# 2614
Delta R.T. -0.005 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:105 Resp: 282101

Ion	Ratio	Lower	Upper
105	100		
120	50.8	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

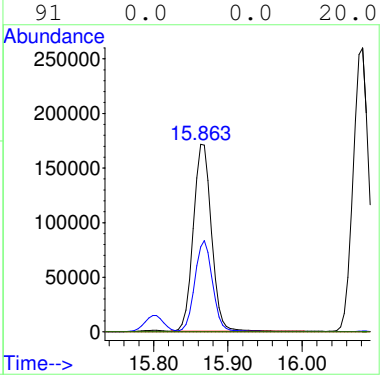


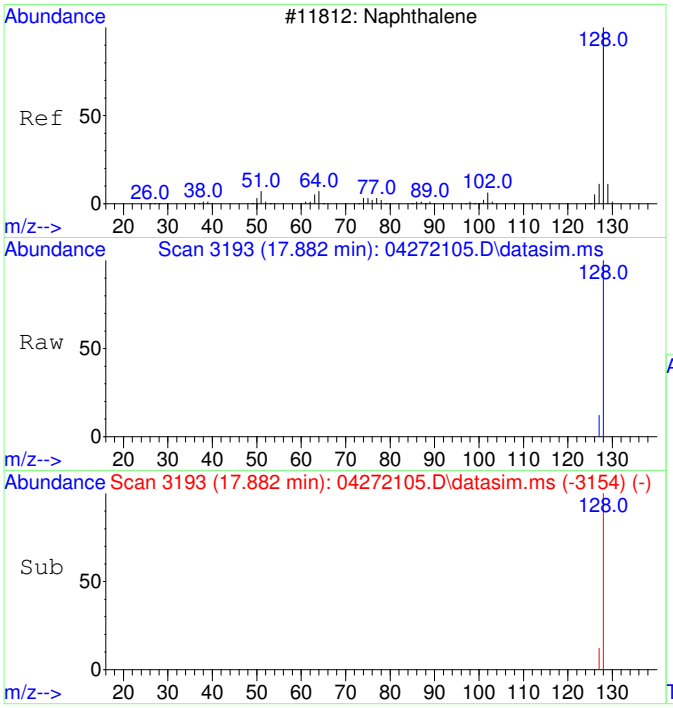


#23
1,2,4-Trimethylbenzene
Concen: 5021.93 ug/L
RT: 15.863 min Scan# 2727
Delta R.T. -0.010 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:105 Resp: 290452

Ion	Ratio	Lower	Upper
105	100		
120	46.3	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

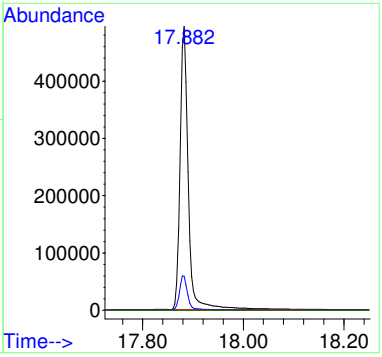


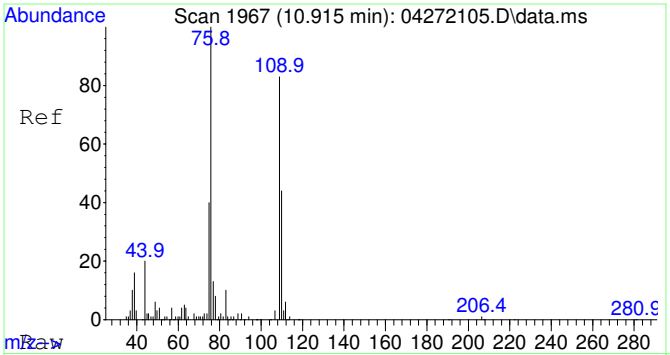


#24
Naphthalene
Concen: 5165.68 ug/L
RT: 17.882 min Scan# 3193
Delta R.T. -0.004 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:128 Resp: 558045

Ion	Ratio	Lower	Upper
128	100		
127	12.4	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

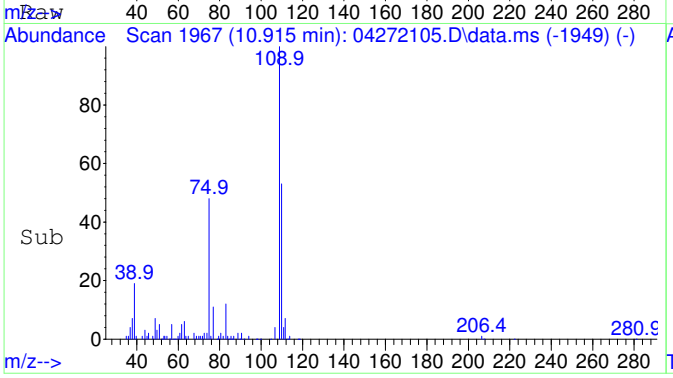


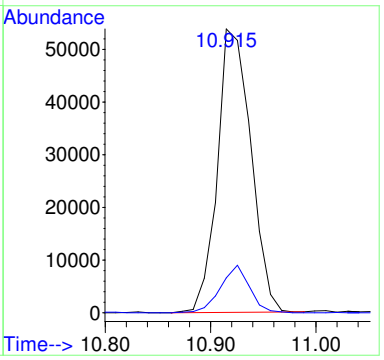


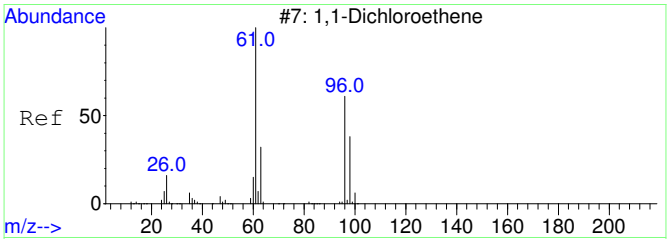
#25
2-Fluorotoluene SCAN
Concen: 5000.00 ug/L
RT: 10.915 min Scan# 1967
Delta R.T. -0.010 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:109 Resp: 119258

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	44.5



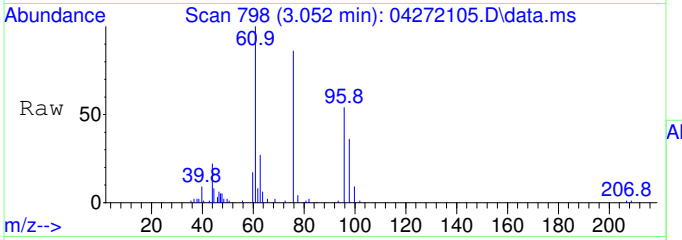


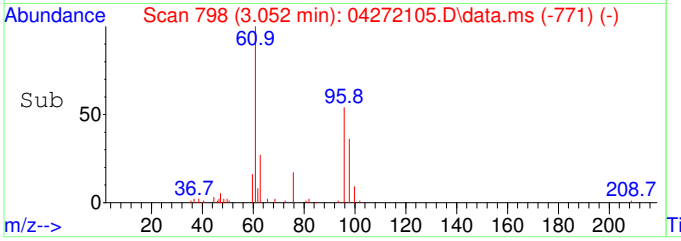


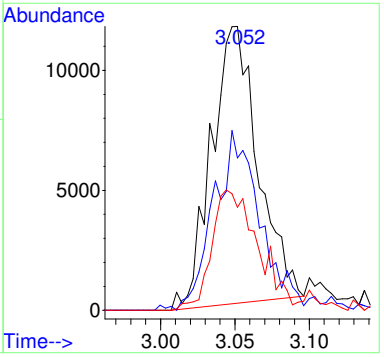
#26
1,1-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 3.052 min Scan# 798
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

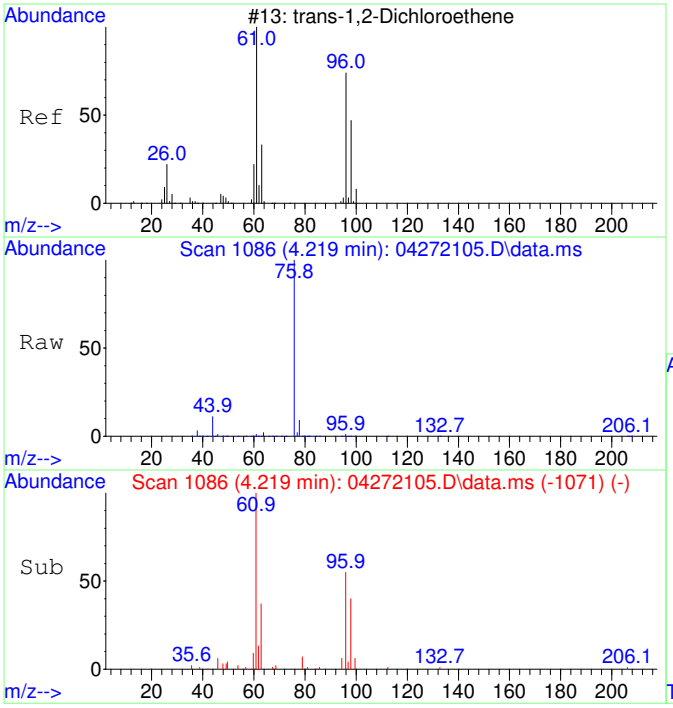
Tgt Ion: 61 Resp: 25189

Ion	Ratio	Lower	Upper
61	100		
96	61.9	33.0	93.0
98	39.7	12.5	72.5





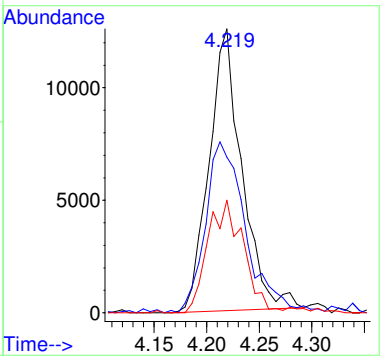


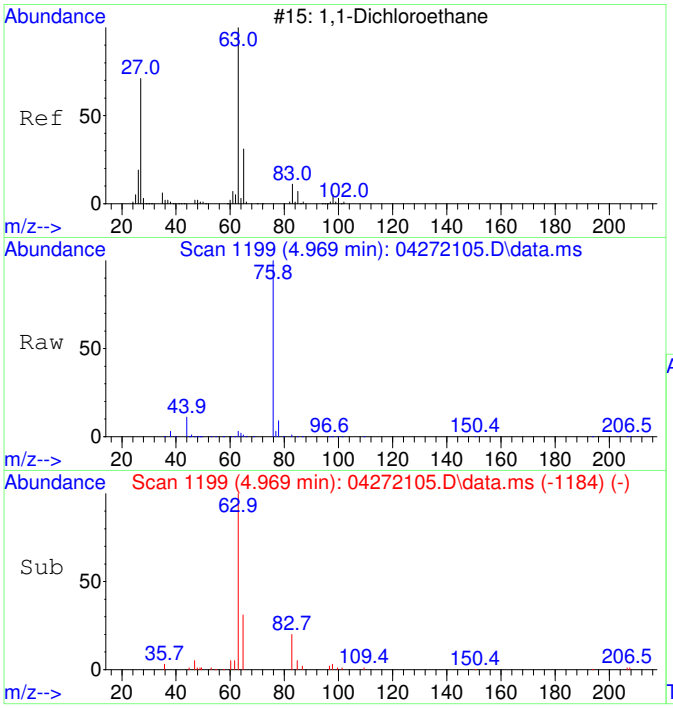


#27
trans-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 4.219 min Scan# 1086
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 61 Resp: 27250

Ion	Ratio	Lower	Upper
61	100		
96	73.2	49.3	109.3
98	41.9	24.0	84.0

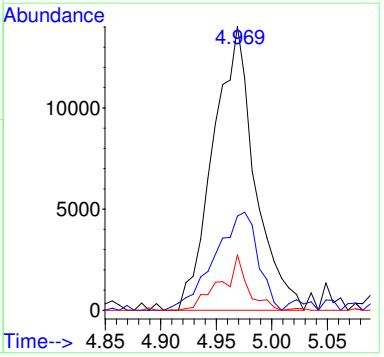


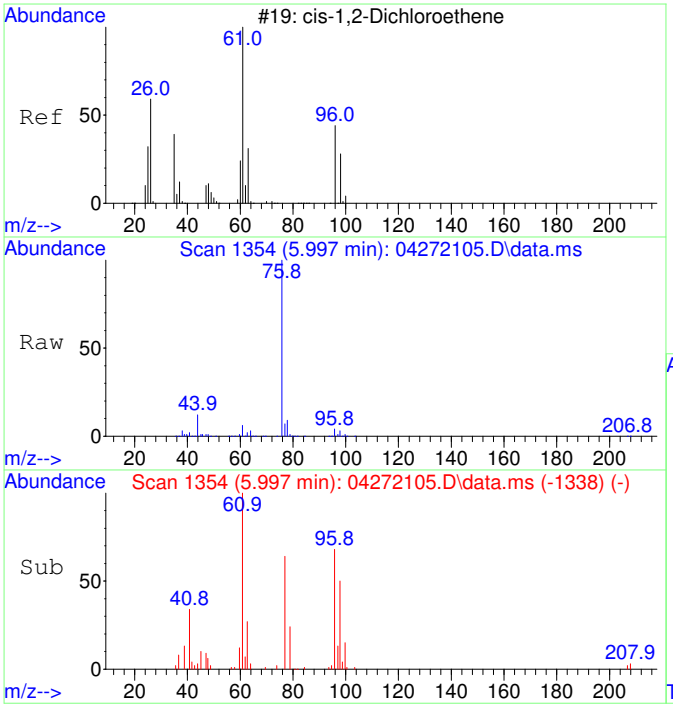


#28
1,1-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 4.969 min Scan# 1199
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 63 Resp: 36520

Ion	Ratio	Lower	Upper
63	100		
65	36.1	0.0	57.3
83	12.8	0.0	46.2

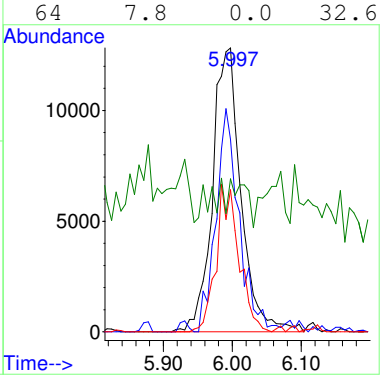


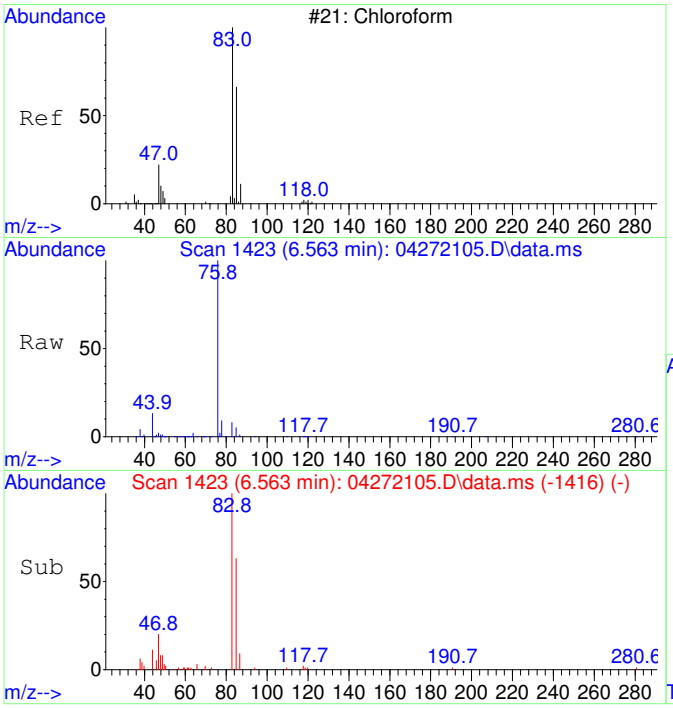


#29
cis-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 5.997 min Scan# 1354
Delta R.T. 0.007 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 61 Resp: 36844

Ion	Ratio	Lower	Upper
61	100		
96	62.3	36.9	96.9
98	41.2	12.1	72.1
64	7.8	0.0	32.6

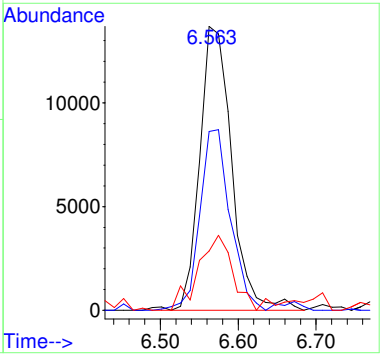


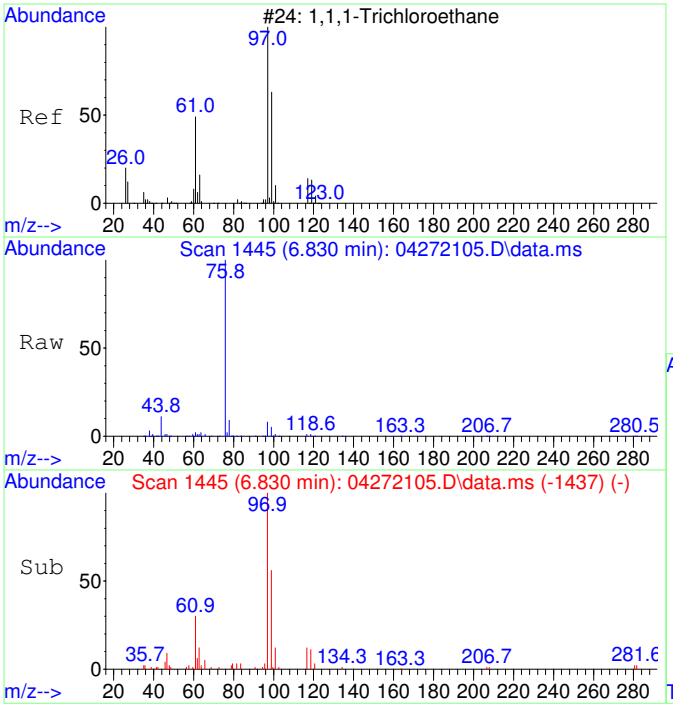


#30
Chloroform SCAN
Concen: 5000.00 ug/L
RT: 6.563 min Scan# 1423
Delta R.T. -0.012 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 83 Resp: 38965

Ion	Ratio	Lower	Upper
83	100		
85	59.9	27.1	87.1
47	28.3	7.5	67.5

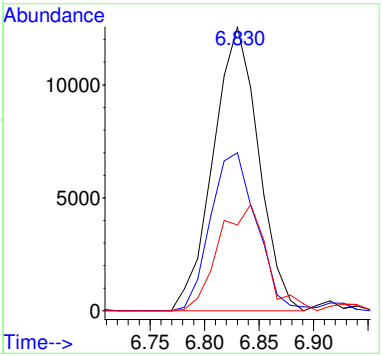


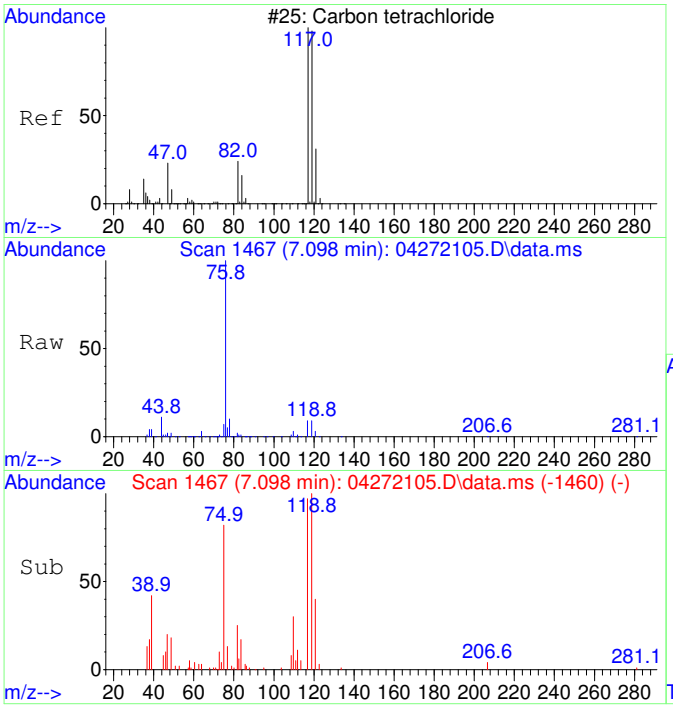


#31
1,1,1-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 6.830 min Scan# 1445
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 97 Resp: 36407

Ion	Ratio	Lower	Upper
97	100		
99	55.2	26.5	86.5
61	39.2	11.4	71.4

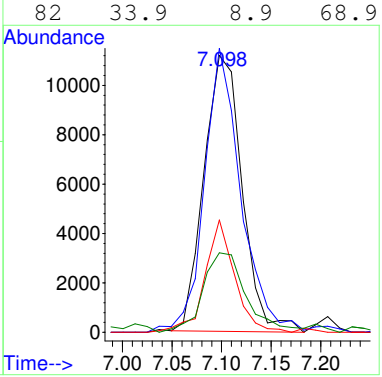


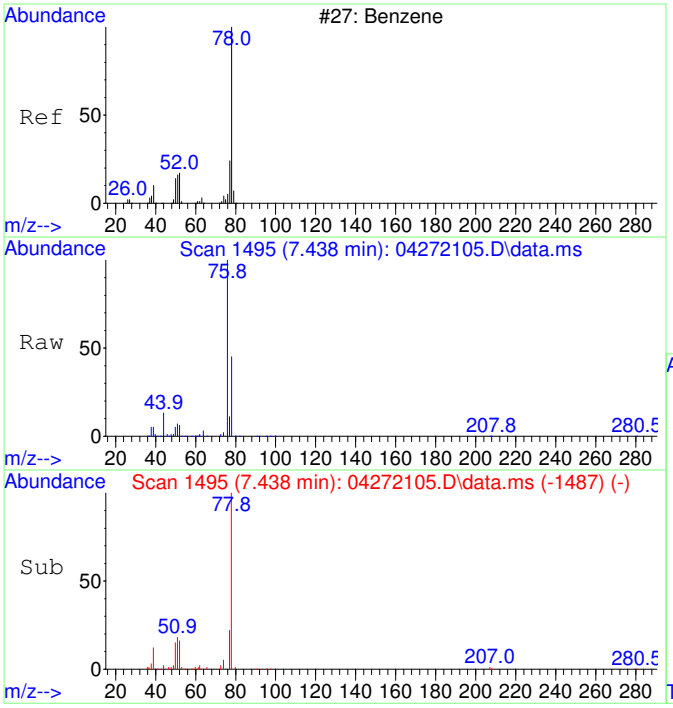


#32
Carbon tetrachloride SCAN
Concen: 5000.00 ug/L
RT: 7.098 min Scan# 1467
Delta R.T. -0.012 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:117 Resp: 30041

Ion	Ratio	Lower	Upper
117	100		
119	94.2	68.0	128.0
121	30.5	0.0	59.0
82	33.9	8.9	68.9

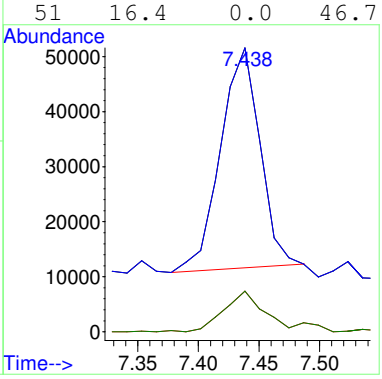


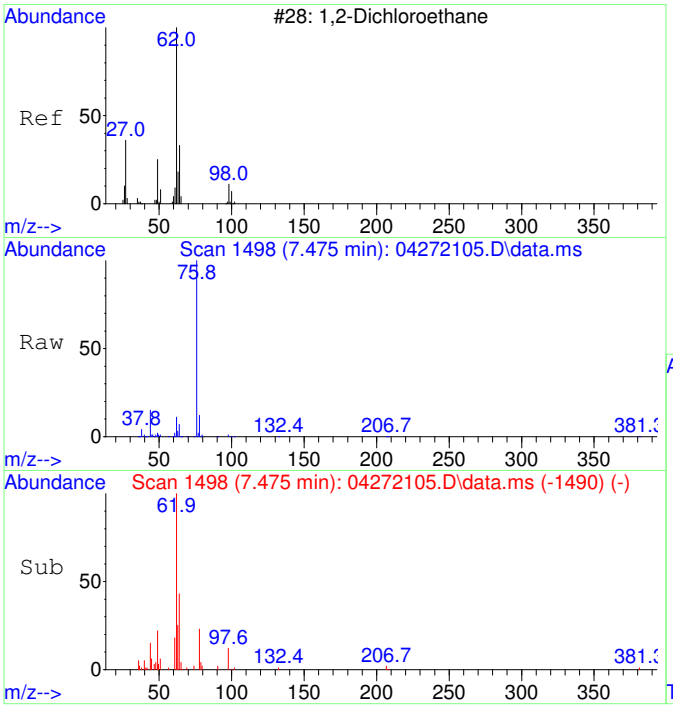


#33
Benzene SCAN
Concen: 5000.00 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 78 Resp: 91408

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	16.4	0.0	46.7
51	16.4	0.0	46.7

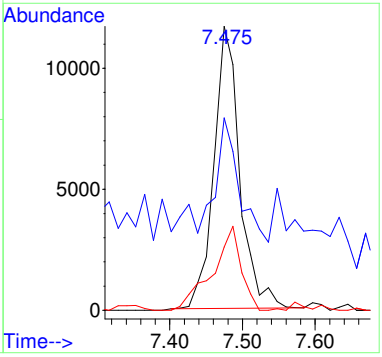


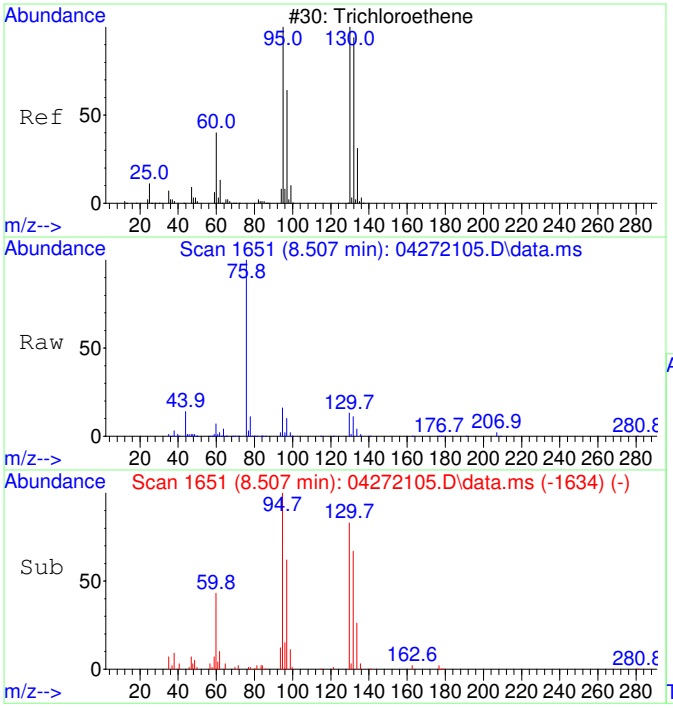


#34
1,2-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 7.475 min Scan# 1498
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 62 Resp: 28818

Ion	Ratio	Lower	Upper
62	100		
64	35.4	13.3	73.3
49	33.0	4.1	64.1

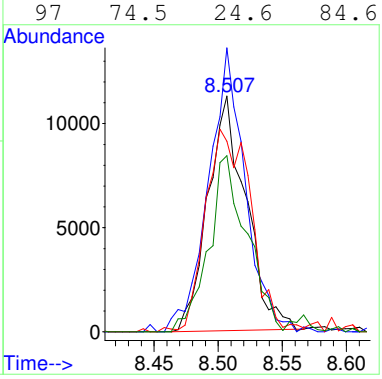


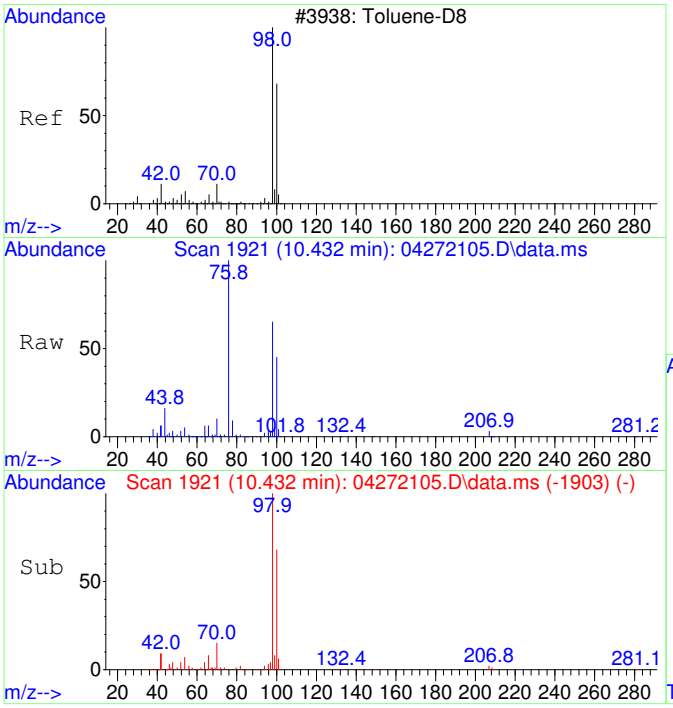


#35
Trichloroethene SCAN
Concen: 5000.00 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. -0.005 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:130 Resp: 23299

Ion	Ratio	Lower	Upper
130	100		
95	117.0	60.0	120.0
132	100.5	54.3	114.3
97	74.5	24.6	84.6

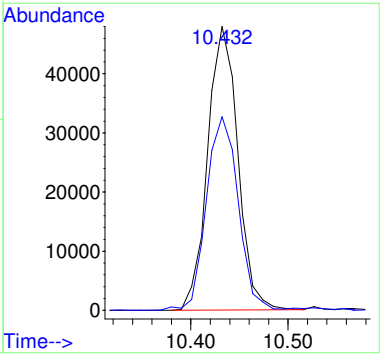


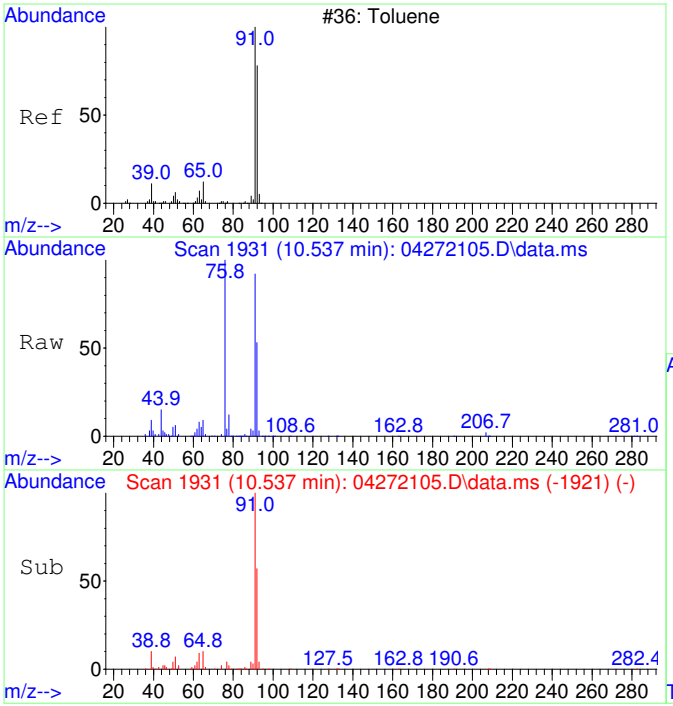


#36
Toluene-d8 SCAN
Concen: 5000.00 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. -0.010 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 98 Resp: 103436

Ion	Ratio	Lower	Upper
98	100		
100	71.1	36.1	96.1

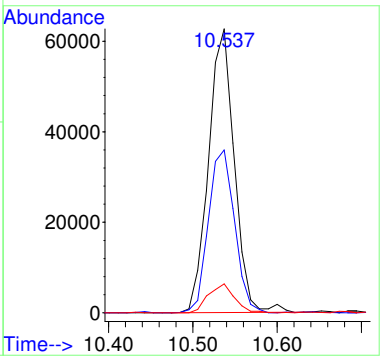


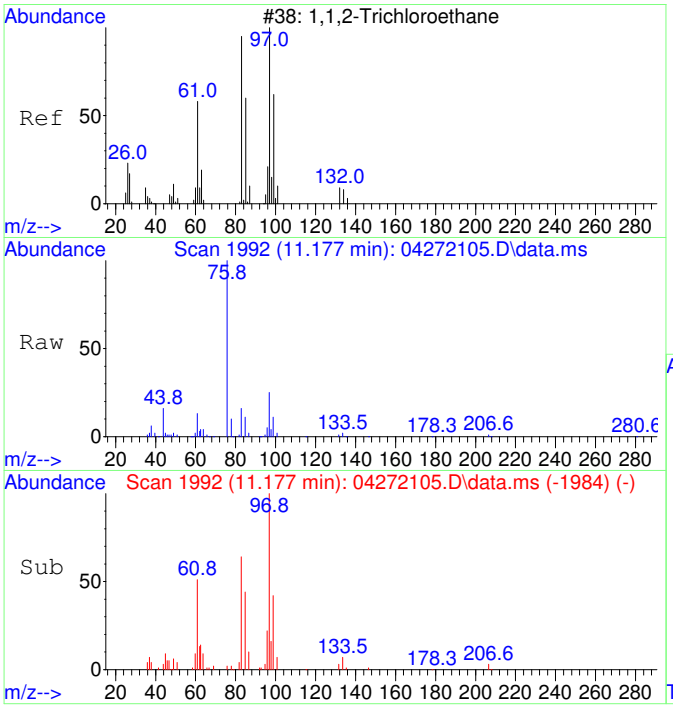


#37
Toluene SCAN
Concen: 5000.00 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 91 Resp: 133873

Ion	Ratio	Lower	Upper
91	100		
92	58.1	26.5	86.5
65	10.4	0.0	40.6

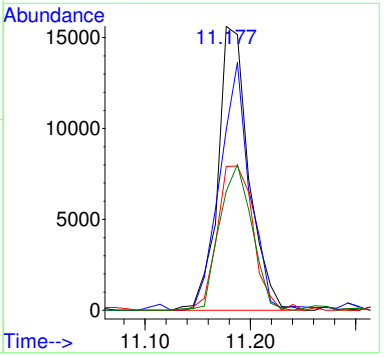


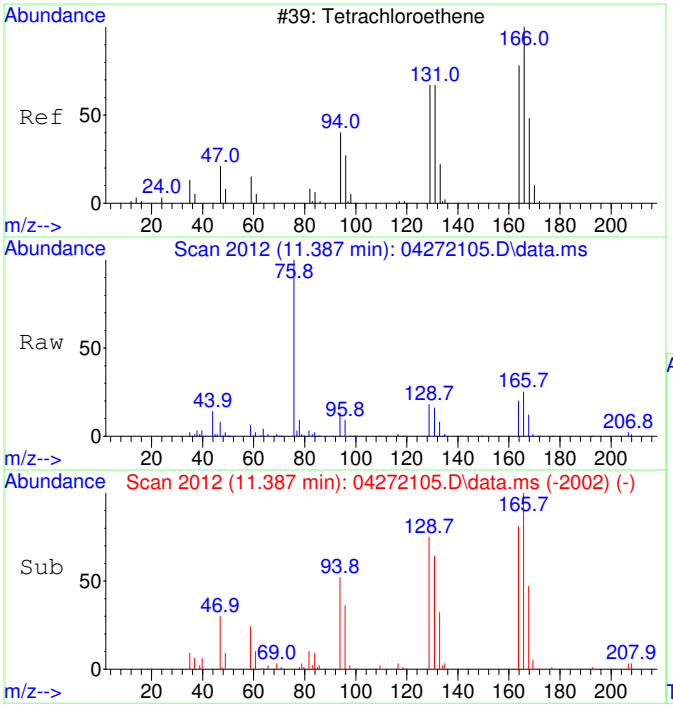


#38
1,1,2-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 11.177 min Scan# 1992
Delta R.T. -0.021 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 97 Resp: 31891

Ion	Ratio	Lower	Upper
97	100		
83	83.8	52.0	112.0
61	59.5	30.8	90.8
99	54.2	37.5	97.5

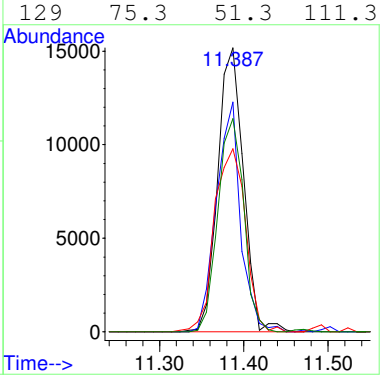


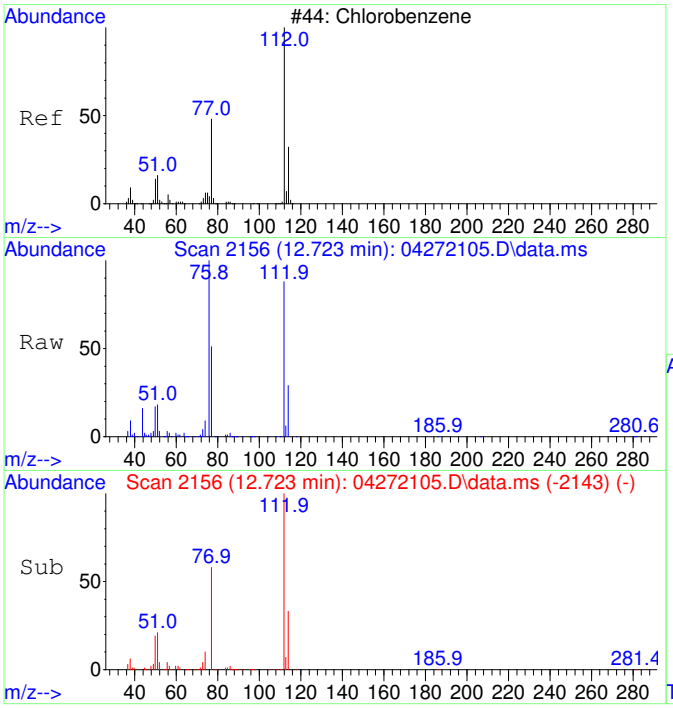


#39
Tetrachloroethene SCAN
Concen: 5000.00 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:166 Resp: 32238

Ion	Ratio	Lower	Upper
166	100		
164	76.5	53.9	113.9
131	77.9	45.6	105.6
129	75.3	51.3	111.3

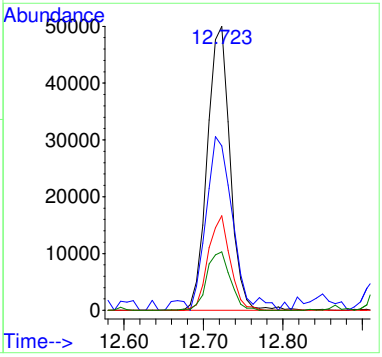


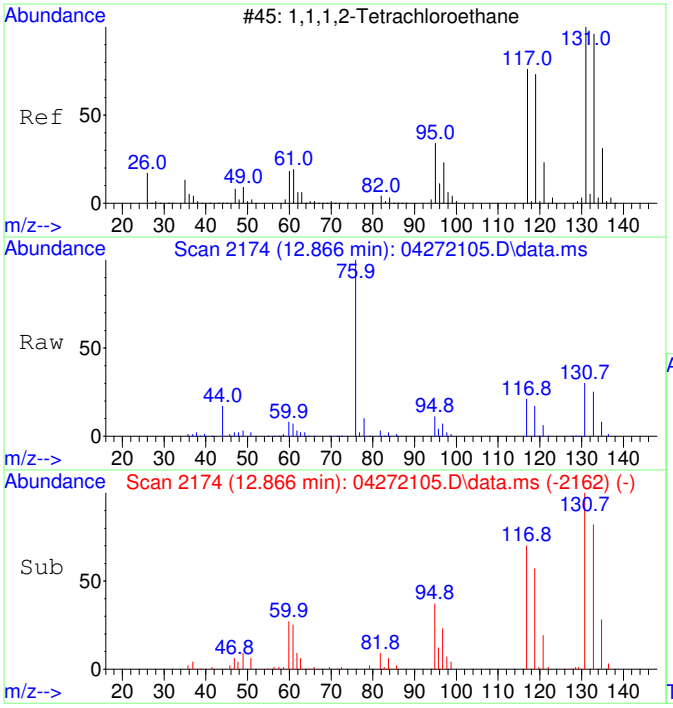


#40
Chlorobenzene SCAN
Concen: 5000.00 ug/L
RT: 12.723 min Scan# 2156
Delta R.T. 0.000 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:112 Resp: 99799

Ion	Ratio	Lower	Upper
112	100		
77	70.6	48.5	108.5
114	32.1	4.9	64.9
51	21.4	0.0	53.6

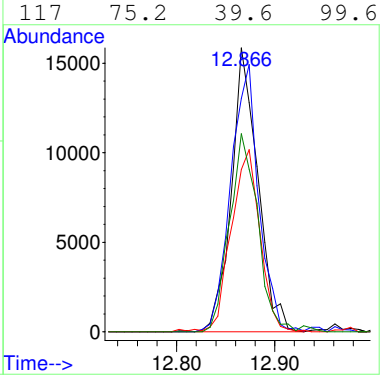


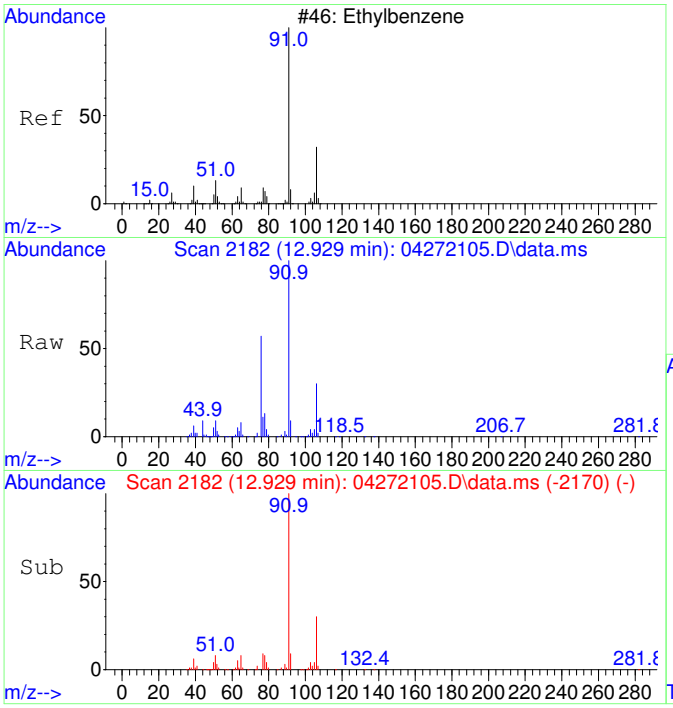


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 12.866 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:131 Resp: 29634

Ion	Ratio	Lower	Upper
131	100		
133	99.0	61.4	121.4
119	69.9	33.6	93.6
117	75.2	39.6	99.6

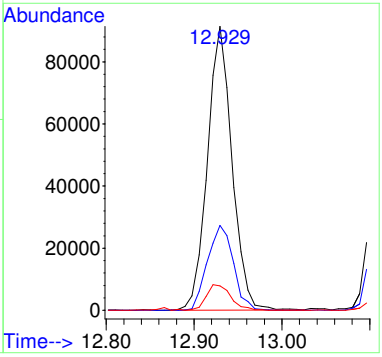


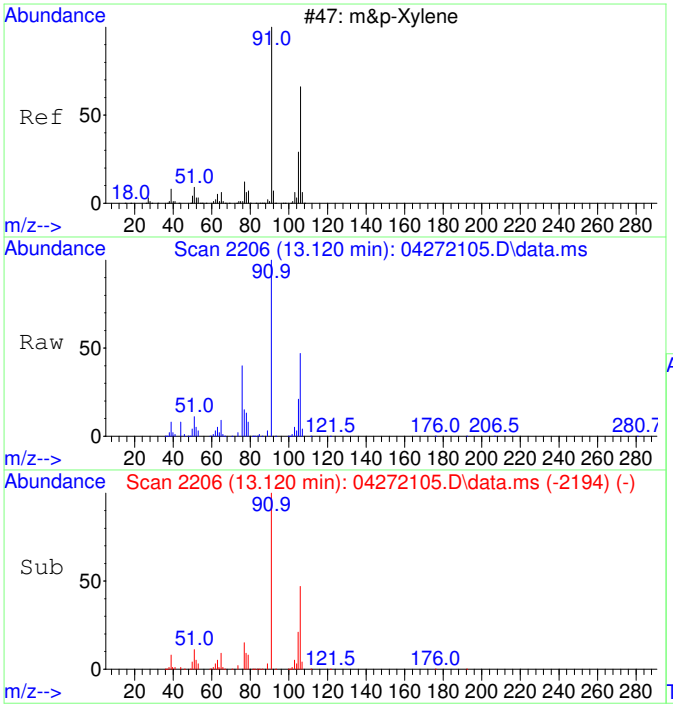


#42
Ethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 12.929 min Scan# 2182
Delta R.T. -0.008 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 91 Resp: 178458

Ion	Ratio	Lower	Upper
91	100		
106	31.5	0.5	60.5
51	9.0	0.0	39.6

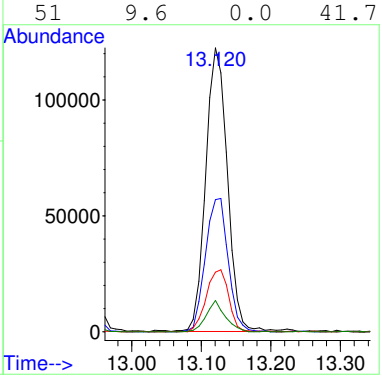


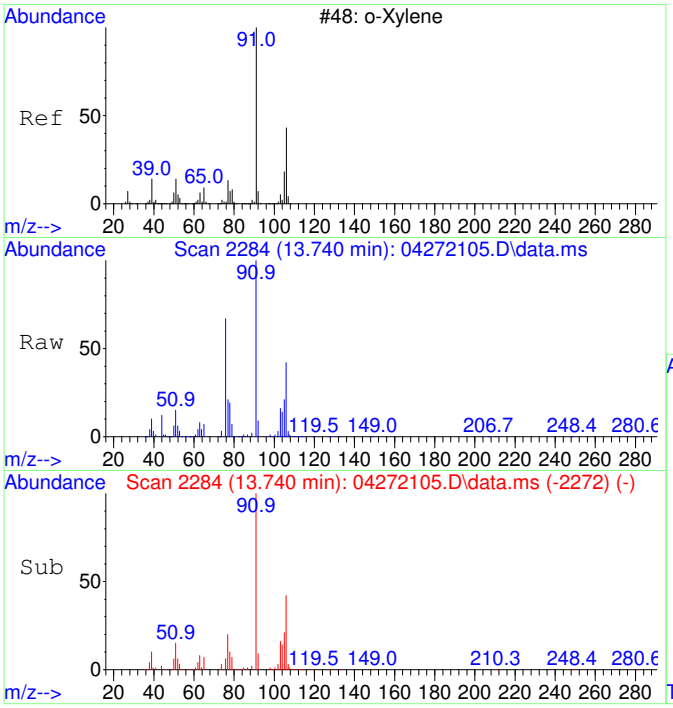


#43
m&p-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.120 min Scan# 2206
Delta R.T. -0.008 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 91 Resp: 266234

Ion	Ratio	Lower	Upper
91	100		
106	49.1	21.2	81.2
105	22.7	0.0	51.6
51	9.6	0.0	41.7

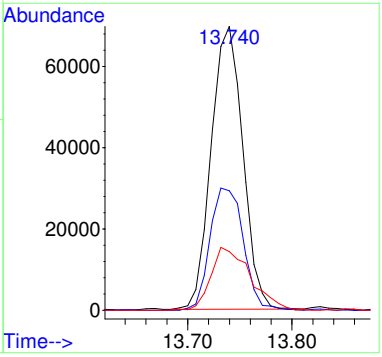


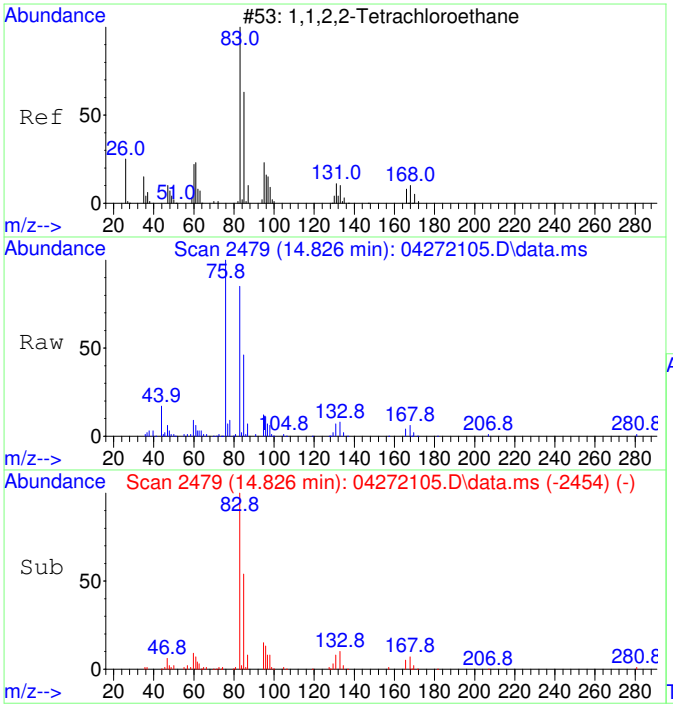


#44
o-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. -0.008 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 91 Resp: 146456

Ion	Ratio	Lower	Upper
91	100		
106	45.7	19.1	79.1
105	27.8	0.0	55.6

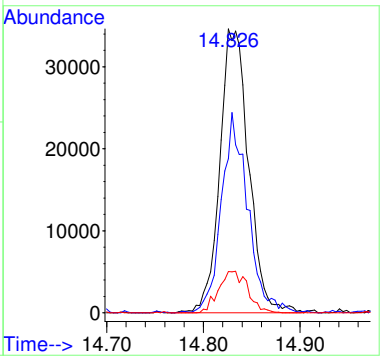


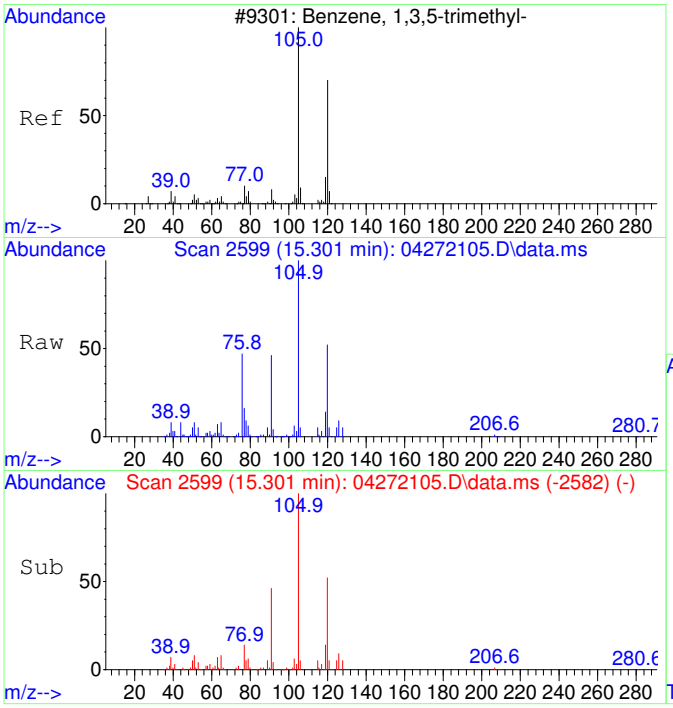


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 14.826 min Scan# 2479
Delta R.T. -0.007 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion: 83 Resp: 71590

Ion	Ratio	Lower	Upper
83	100		
85	63.3	34.1	94.1
95	14.8	0.0	46.2

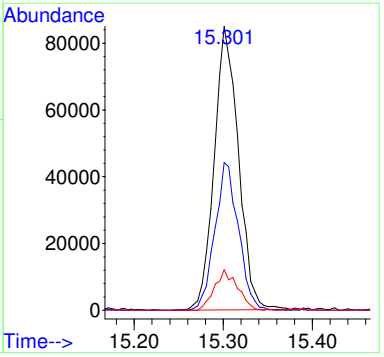


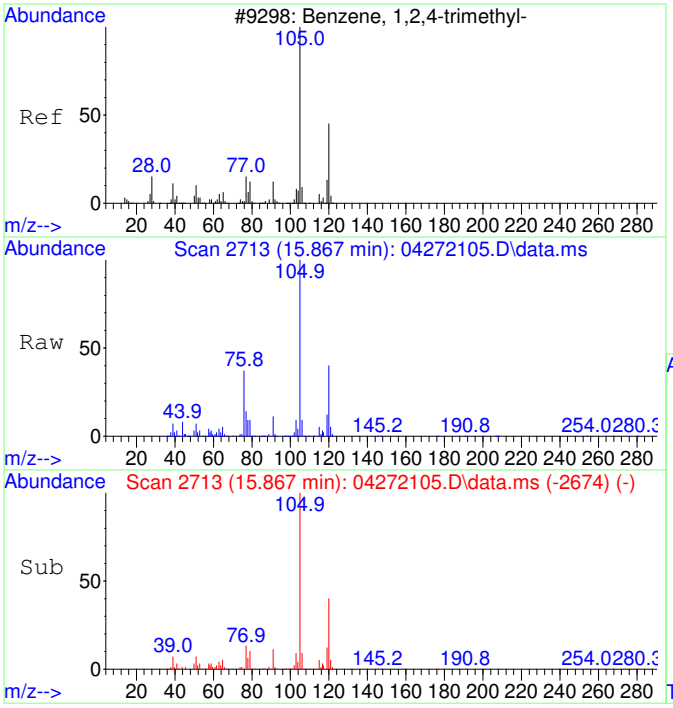


#46
1,3,5-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.301 min Scan# 2599
Delta R.T. -0.010 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:105 Resp: 160777

Ion	Ratio	Lower	Upper
105	100		
120	50.7	20.2	80.2
119	13.5	0.0	43.8

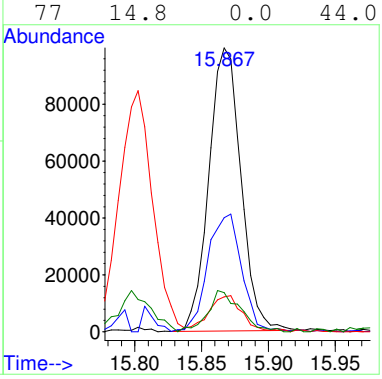


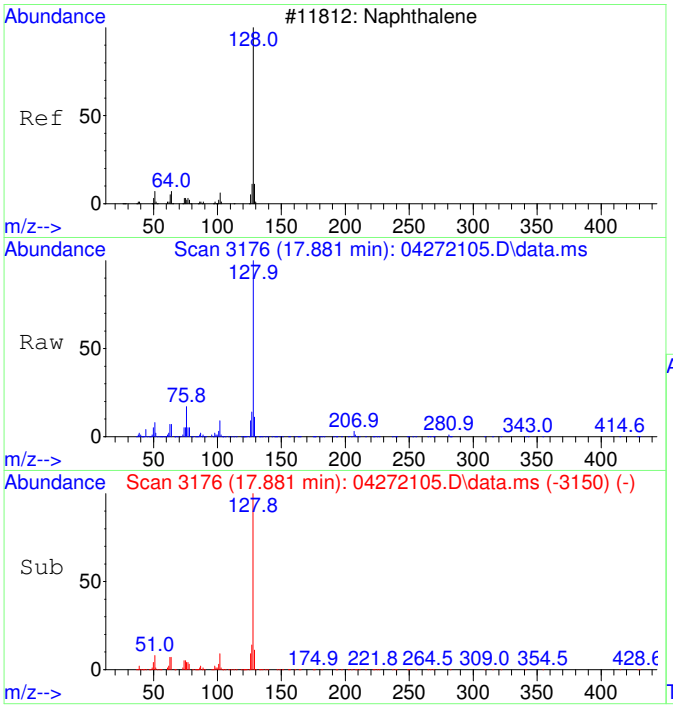


#47
1,2,4-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.867 min Scan# 2713
Delta R.T. -0.005 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:105 Resp: 166503

Ion	Ratio	Lower	Upper
105	100		
120	44.0	15.6	75.6
119	11.6	0.0	38.2
77	14.8	0.0	44.0

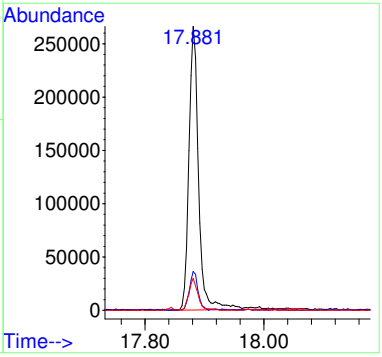




#48
Naphthalene SCAN
Concen: 5000.00 ug/L
RT: 17.881 min Scan# 3176
Delta R.T. -0.004 min
Lab File: 04272105.D
Acq: 27 Apr 2021 14:31

Tgt Ion:128 Resp: 303576

Ion	Ratio	Lower	Upper
128	100		
127	12.0	0.0	41.1
129	10.2	0.0	39.5



S21D071-CAL4

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272106.D
Acq On : 27 Apr 2021 14:58
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL4
Misc : 2106040 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 06:41:52 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration

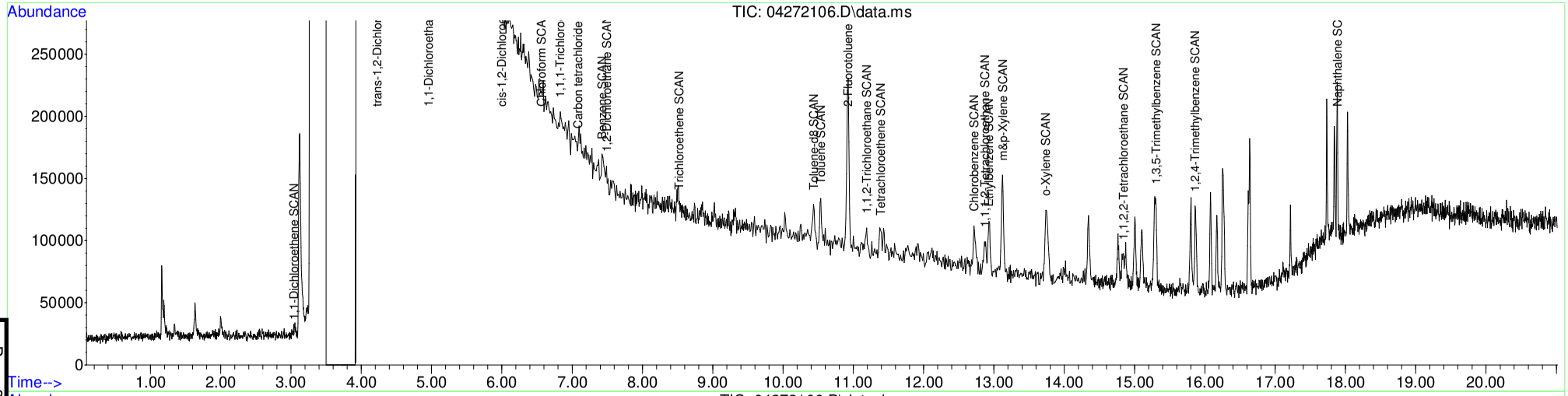
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.916	109	195095	5000.00	ug/L	#-0.01
System Monitoring Compounds						
12) Toluene-d8	10.434	98	35134	1051.35	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 21.03%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.049	61	8660	1019.12	ug/L #	99
3] trans-1,2-Dichloroethene	4.214	61	7065	966.09	ug/L #	99
4] 1,1-Dichloroethane	4.964	63	9709	968.00	ug/L #	92
5] cis-1,2-Dichloroethene	5.986	61	9492	987.67	ug/L #	98
6] Chloroform	6.564	83	10670	943.37	ug/L #	99
7] 1,1,1-Trichloroethane	6.819	97	10395	987.73	ug/L #	100
8] Carbon tetrachloride	7.099	117	9090	991.44	ug/L #	99
9] Benzene	7.428	78	30450	958.22	ug/L #	90
10] 1,2-Dichloroethane	7.464	62	8797	1006.50	ug/L #	88
11] Trichloroethene	8.508	130	8609	1017.42	ug/L	99
13] Toluene	10.528	91	44704	1027.70	ug/L	99
14] 1,1,2-Trichloroethane	11.179	97	9284	1025.95	ug/L #	99
15] Tetrachloroethene	11.378	166	11910	1070.32	ug/L #	100
16] Chlorobenzene	12.716	112	35049	930.42	ug/L #	98
17] 1,1,1,2-Tetrachloroethane	12.867	131	10736	1071.09	ug/L #	99
18] Ethylbenzene	12.923	91	61028	1092.43	ug/L #	99
19] m&p-Xylene	13.122	91	96002	2181.45	ug/L #	100
20] o-Xylene	13.733	91	51779	1087.85	ug/L #	81
21] 1,1,2,2-Tetrachloroethane	14.831	83	22280	1074.13	ug/L #	99
22] 1,3,5-Trimethylbenzene	15.302	105	61844	1106.27	ug/L #	100
23] 1,2,4-Trimethylbenzene	15.863	105	64240	1103.24	ug/L #	100
24] Naphthalene	17.883	128	121456	1116.72	ug/L #	100
25) 2-Fluorotoluene SCAN	10.926	109	115819	4823.14	ug/L	95
26) 1,1-Dichloroethene SCAN	3.044	61	5416	1067.84	ug/L	94
27) trans-1,2-Dichloroethe...	4.219	61	5920	1078.93	ug/L	88
28) 1,1-Dichloroethane SCAN	4.956	63	8073	1097.85	ug/L	77
29) cis-1,2-Dichloroethene...	5.991	61	8034	1082.93	ug/L #	86
30) Chloroform SCAN	6.563	83	8329	1061.59	ug/L	79
31) 1,1,1-Trichloroethane ...	6.830	97	5087	693.93	ug/L	79
32) Carbon tetrachloride SCAN	7.086	117	4888	808.08	ug/L #	67
33) Benzene SCAN	7.426	78	22772	1237.24	ug/L	98
34) 1,2-Dichloroethane SCAN	7.487	62	6496	1119.49	ug/L #	54
35) Trichloroethene SCAN	8.518	130	5050	1076.44	ug/L #	61
36) Toluene-d8 SCAN	10.432	98	22992	1103.93	ug/L	98
37) Toluene SCAN	10.537	91	31615	1172.84	ug/L	97
38) 1,1,2-Trichloroethane ...	11.188	97	7307	1137.91	ug/L	91
39) Tetrachloroethene SCAN	11.387	166	6354	978.85	ug/L	81
40) Chlorobenzene SCAN	12.715	112	22183	1103.90	ug/L	80
41) 1,1,1,2-Tetrachloroeth...	12.866	131	5190	869.79	ug/L #	60
42) Ethylbenzene SCAN	12.930	91	40364	1123.30	ug/L	97
43) m&p-Xylene SCAN	13.120	91	58144	1084.62	ug/L	99
44) o-Xylene SCAN	13.740	91	32021	1085.84	ug/L	93
45) 1,1,2,2-Tetrachloroeth...	14.837	83	15528	1077.21	ug/L	92
46) 1,3,5-Trimethylbenzene...	15.301	105	36579	1129.91	ug/L	95
47) 1,2,4-Trimethylbenzene...	15.862	105	39757	1185.85	ug/L	99
48) Naphthalene SCAN	17.881	128	66211	1083.18	ug/L	91

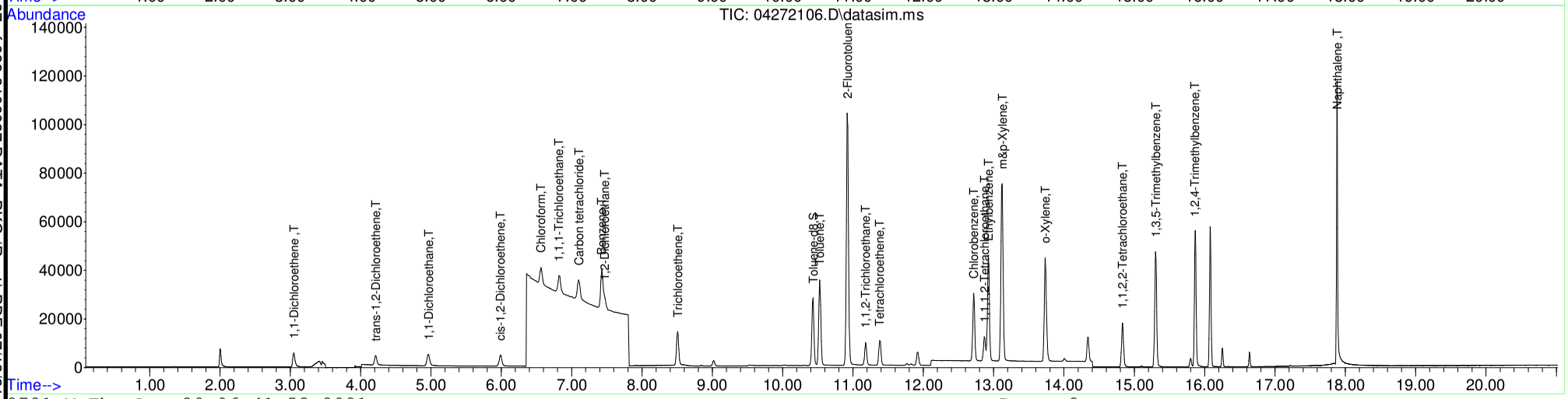
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272106.D
Acq On : 27 Apr 2021 14:58
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL4
Misc : 2106040 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 06:41:52 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration





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S21D071-CAL5

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272107.D
Acq On : 27 Apr 2021 15:24
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL5
Misc : 2106041 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 06:41:55 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration

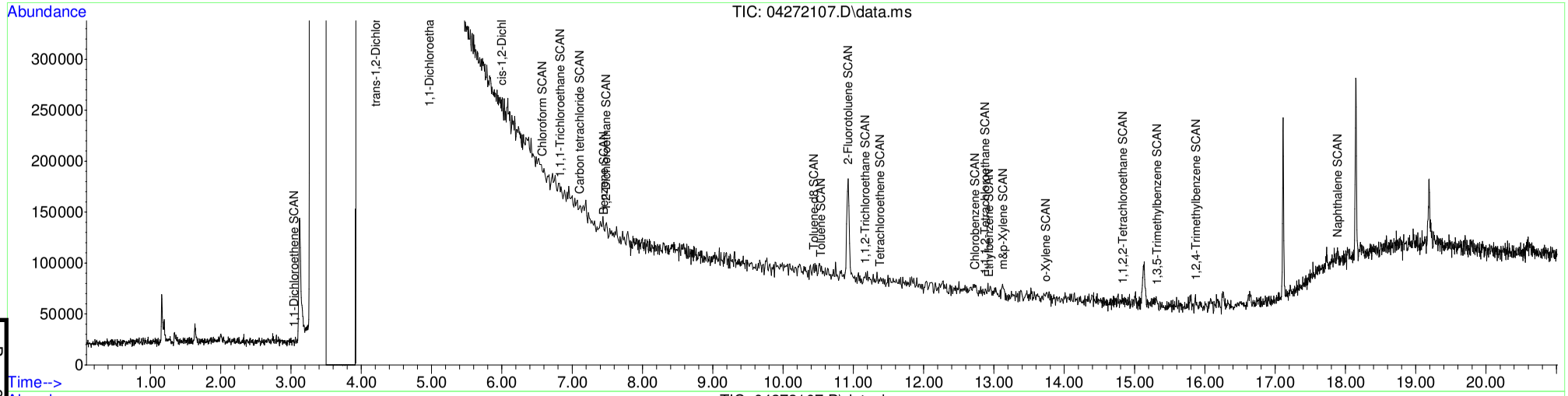
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	145659	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	3844	154.07 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	3.08%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.046	61	1103	173.86 ug/L #	96
3] trans-1,2-Dichloroethene	4.214	61	902	165.20 ug/L #	98
4] 1,1-Dichloroethane	4.957	63	1224	163.45 ug/L #	91
5] cis-1,2-Dichloroethene	5.992	61	1201	167.38 ug/L #	95
6] Chloroform	6.564	83	1390	164.60 ug/L #	97
7] 1,1,1-Trichloroethane	6.819	97	1245	158.45 ug/L #	99
8] Carbon tetrachloride	7.099	117	1074	156.90 ug/L #	95
9] Benzene	7.428	78	4778	201.39 ug/L #	56
10] 1,2-Dichloroethane	7.464	62	1041	159.53 ug/L #	8
11] Trichloroethene	8.503	130	995	157.50 ug/L	96
13] Toluene	10.528	91	5208	160.36 ug/L	99
14] 1,1,2-Trichloroethane	11.179	97	1076	159.26 ug/L #	100
15] Tetrachloroethene	11.378	166	1286	154.79 ug/L #	99
16] Chlorobenzene	12.716	112	4620	164.27 ug/L #	91
17] 1,1,1,2-Tetrachloroethane	12.867	131	1159	154.87 ug/L #	93
18] Ethylbenzene	12.923	91	6574	157.62 ug/L #	97
19] m&p-Xylene	13.122	91	10393	316.31 ug/L #	98
20] o-Xylene	13.733	91	5607	157.78 ug/L #	79
21] 1,1,2,2-Tetrachloroethane	14.831	83	2396	154.72 ug/L #	96
22] 1,3,5-Trimethylbenzene	15.303	105	6601	158.15 ug/L #	99
23] 1,2,4-Trimethylbenzene	15.864	105	7028	161.66 ug/L #	99
24] Naphthalene	17.883	128	13261	163.31 ug/L #	100
25) 2-Fluorotoluene SCAN	10.926	109	90491	5047.36 ug/L	99
26) 1,1-Dichloroethene SCAN	3.044	61	243	64.17 ug/L	83
27) trans-1,2-Dichloroethe...	4.200	61	573	139.87 ug/L #	51
28) 1,1-Dichloroethane SCAN	4.963	63	436	79.41 ug/L #	35
29) cis-1,2-Dichloroethene...	5.991	61	275	49.65 ug/L #	1
30) Chloroform SCAN	6.575	83	968	165.25 ug/L #	68
31) 1,1,1-Trichloroethane ...	6.830	97	582	106.34 ug/L #	56
32) Carbon tetrachloride SCAN	7.098	117	217	48.05 ug/L #	1
33) Benzene SCAN	7.451	78	6237	453.88 ug/L #	90
34) 1,2-Dichloroethane SCAN	7.475	62	1000	230.82 ug/L #	52
36) Toluene-d8 SCAN	10.432	98	1703	109.52 ug/L	82
37) Toluene SCAN	10.537	91	3738	185.73 ug/L	78
38) 1,1,2-Trichloroethane ...	11.167	97	994	207.33 ug/L #	43
39) Tetrachloroethene SCAN	11.377	166	477	98.42 ug/L #	55
40) Chlorobenzene SCAN	12.723	112	3169	211.22 ug/L #	38
41) 1,1,1,2-Tetrachloroeth...	12.874	131	637	142.99 ug/L #	61
42) Ethylbenzene SCAN	12.930	91	5537	206.39 ug/L	64
43) m&p-Xylene SCAN	13.120	91	6864	171.50 ug/L #	93
44) o-Xylene SCAN	13.732	91	4079	185.26 ug/L	90
45) 1,1,2,2-Tetrachloroeth...	14.830	83	496	46.09 ug/L #	32
46) 1,3,5-Trimethylbenzene...	15.311	105	1067	44.15 ug/L #	9
47) 1,2,4-Trimethylbenzene...	15.867	105	4878	194.88 ug/L	83
48) Naphthalene SCAN	17.881	128	8358	183.14 ug/L	89

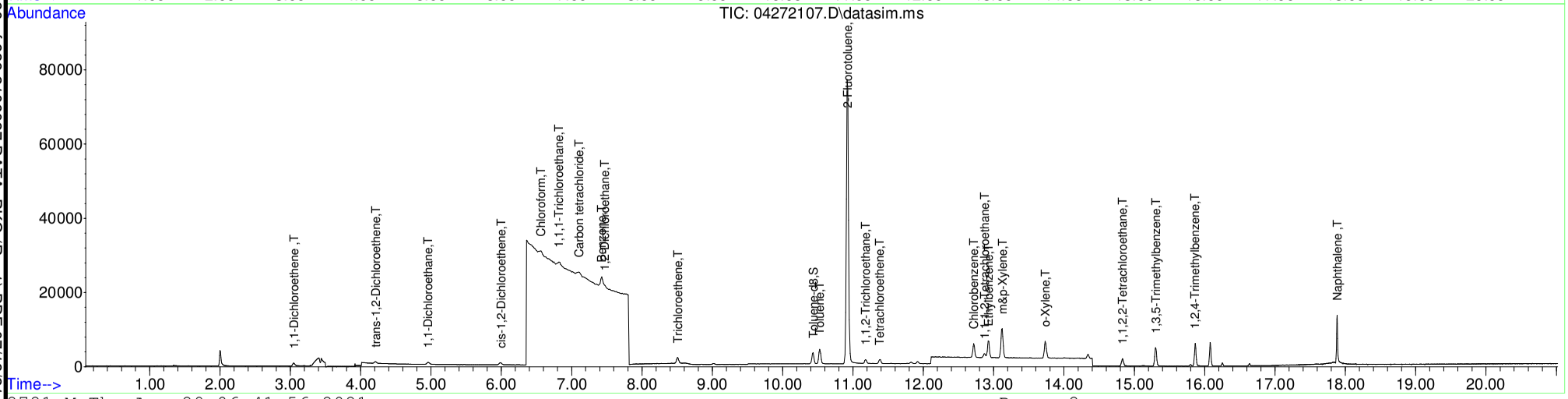
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272107.D
Acq On : 27 Apr 2021 15:24
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL5
Misc : 2106041 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 06:41:55 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration





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S21D071-CAL6

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272108.D
Acq On : 27 Apr 2021 15:50
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL6
Misc : 2106042 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 06:41:58 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration

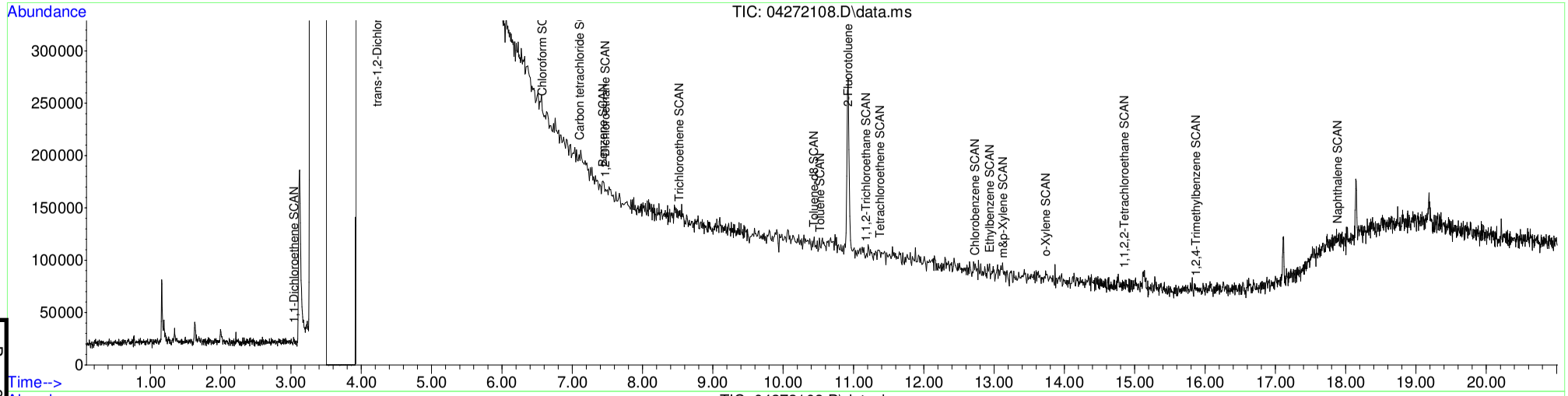
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	237609	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	2047	50.29 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.01%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.046	61	460	44.45 ug/L #	88
3] trans-1,2-Dichloroethene	4.221	61	450	50.52 ug/L #	89
4] 1,1-Dichloroethane	4.964	63	654	53.54 ug/L #	92
5] cis-1,2-Dichloroethene	5.992	61	566	48.36 ug/L #	87
6] Chloroform	6.564	83	816	59.24 ug/L #	92
7] 1,1,1-Trichloroethane	6.820	97	668	52.12 ug/L #	94
8] Carbon tetrachloride	7.099	117	566	50.69 ug/L #	94
9] Benzene	7.428	78	4680	120.92 ug/L #	60
10] 1,2-Dichloroethane	7.476	62	550	51.67 ug/L #	43
11] Trichloroethene	8.508	130	539	52.30 ug/L #	87
13] Toluene	10.528	91	3048	57.53 ug/L	94
14] 1,1,2-Trichloroethane	11.179	97	563	51.08 ug/L #	91
15] Tetrachloroethene	11.378	166	679	50.10 ug/L #	94
16] Chlorobenzene	12.717	112	3421	74.57 ug/L #	92
17] 1,1,1,2-Tetrachloroethane	12.867	131	607	49.72 ug/L #	97
18] Ethylbenzene	12.923	91	3471	51.02 ug/L #	95
19] m&p-Xylene	13.122	91	5632	105.08 ug/L #	97
20] o-Xylene	13.733	91	2993	51.63 ug/L #	80
21] 1,1,2,2-Tetrachloroethane	14.831	83	1309	51.82 ug/L #	99
22] 1,3,5-Trimethylbenzene	15.303	105	3504	51.46 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.863	105	3740	52.74 ug/L #	99
24] Naphthalene	17.883	128	6975	52.66 ug/L #	98
25) 2-Fluorotoluene SCAN	10.926	109	144175	4929.73 ug/L	99
26) 1,1-Dichloroethene SCAN	3.037	61	153	24.77 ug/L #	1
27) trans-1,2-Dichloroethe...	4.220	61	620	92.78 ug/L	92
30) Chloroform SCAN	6.575	83	1231	128.83 ug/L #	1
32) Carbon tetrachloride SCAN	7.098	117	745	101.13 ug/L #	31
33) Benzene SCAN	7.439	78	2968	132.40 ug/L	86
34) 1,2-Dichloroethane SCAN	7.463	62	1177	166.55 ug/L #	1
35) Trichloroethene SCAN	8.518	130	509	89.08 ug/L #	17
36) Toluene-d8 SCAN	10.432	98	1824	71.91 ug/L #	17
37) Toluene SCAN	10.527	91	2050	62.44 ug/L #	32
38) 1,1,2-Trichloroethane ...	11.178	97	267	34.14 ug/L #	46
39) Tetrachloroethene SCAN	11.377	166	215	27.20 ug/L #	39
40) Chlorobenzene SCAN	12.723	112	1463	59.78 ug/L #	1
42) Ethylbenzene SCAN	12.930	91	2378	54.34 ug/L	66
43) m&p-Xylene SCAN	13.128	91	4289	65.69 ug/L #	90
44) o-Xylene SCAN	13.732	91	1367	38.06 ug/L	75
45) 1,1,2,2-Tetrachloroeth...	14.845	83	595	33.89 ug/L #	75
47) 1,2,4-Trimethylbenzene...	15.867	105	2031	49.74 ug/L #	85
48) Naphthalene SCAN	17.881	128	4347	58.39 ug/L	94

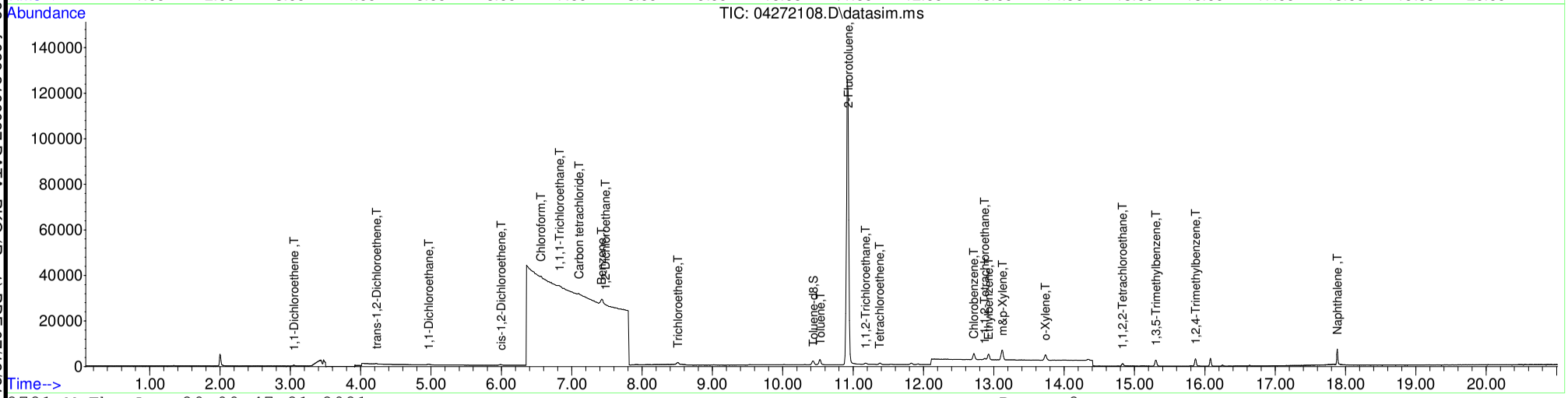
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272108.D
Acq On : 27 Apr 2021 15:50
InstName : AG5975C
Operator : TD
Sample : S21D071-CAL6
Misc : 2106042 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 06:41:58 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:40:45 2021
Response via : Initial Calibration





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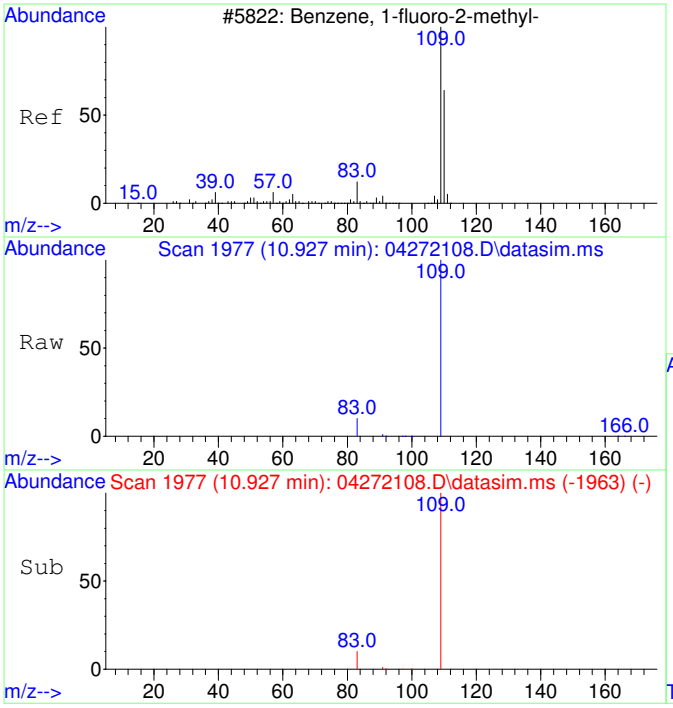
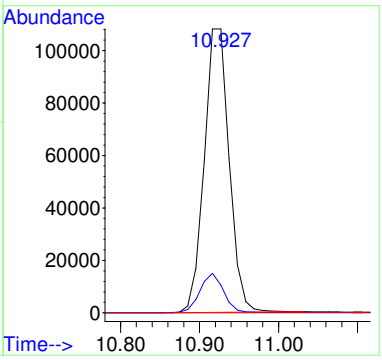
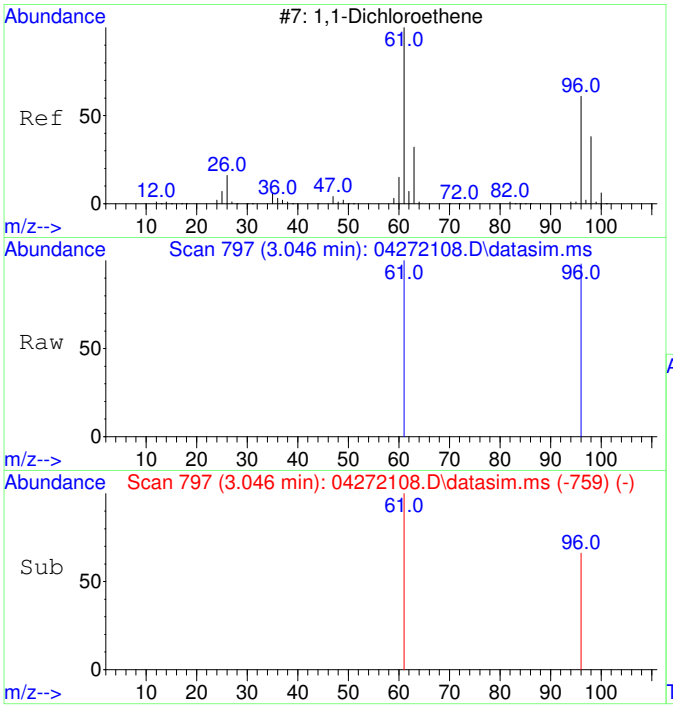


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:109 Resp: 237609

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

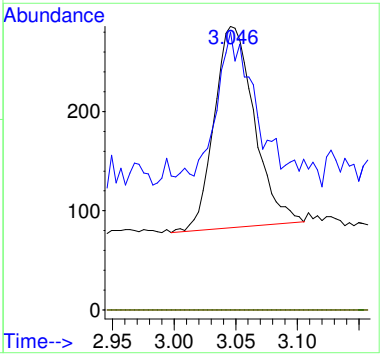


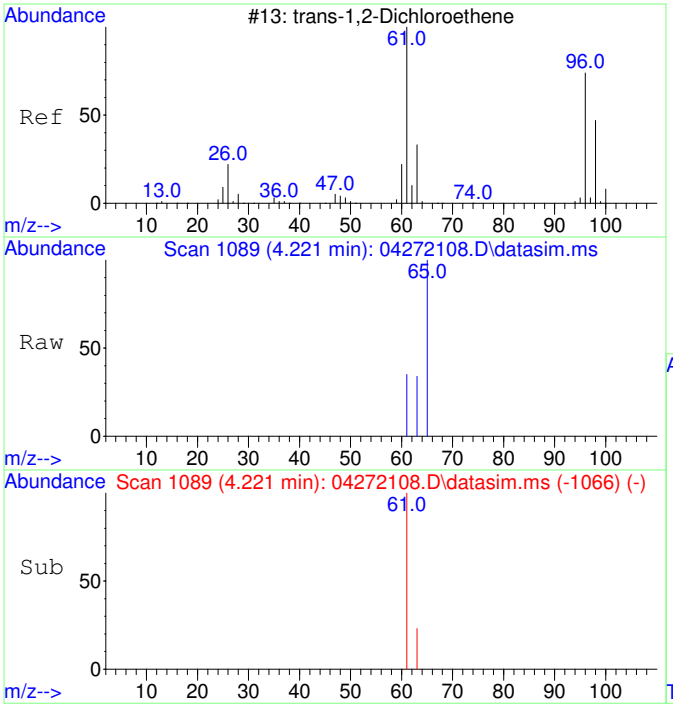


#2
1,1-Dichloroethene
Concen: 44.45 ug/L
RT: 3.046 min Scan# 797
Delta R.T. -0.007 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 61 Resp: 460

Ion	Ratio	Lower	Upper
61	100		
96	74.1	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

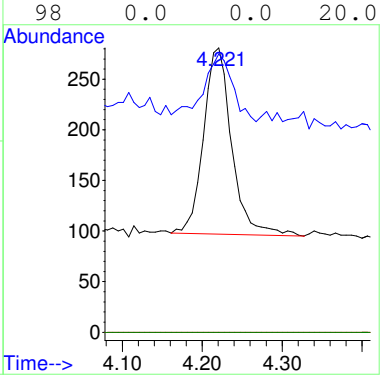


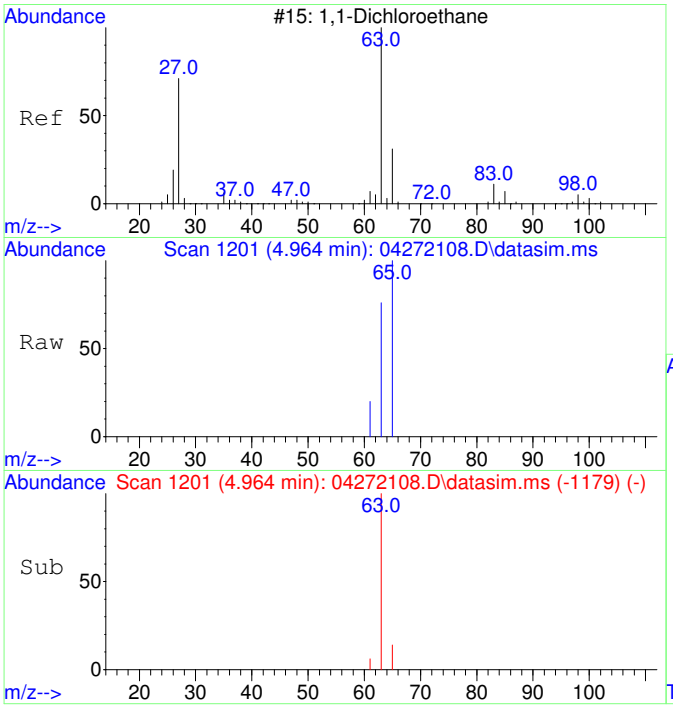


#3
trans-1,2-Dichloroethene
Concen: 50.52 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 61 Resp: 450

Ion	Ratio	Lower	Upper
61	100		
63	38.9	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

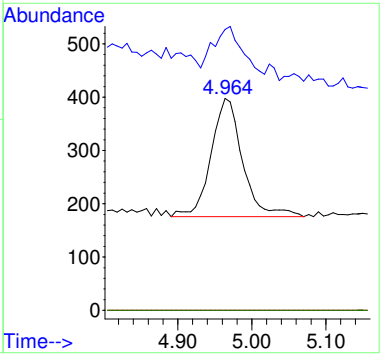


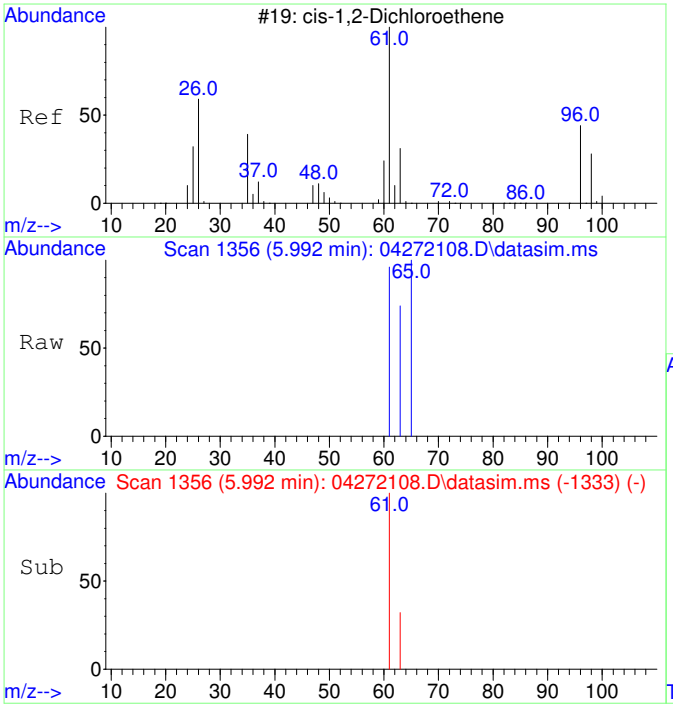


#4
1,1-Dichloroethane
Concen: 53.54 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. -0.006 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 63 Resp: 654

Ion	Ratio	Lower	Upper
63	100		
65	35.8	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

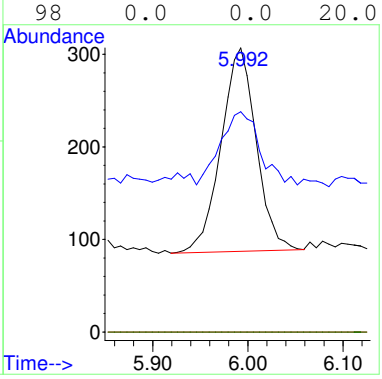


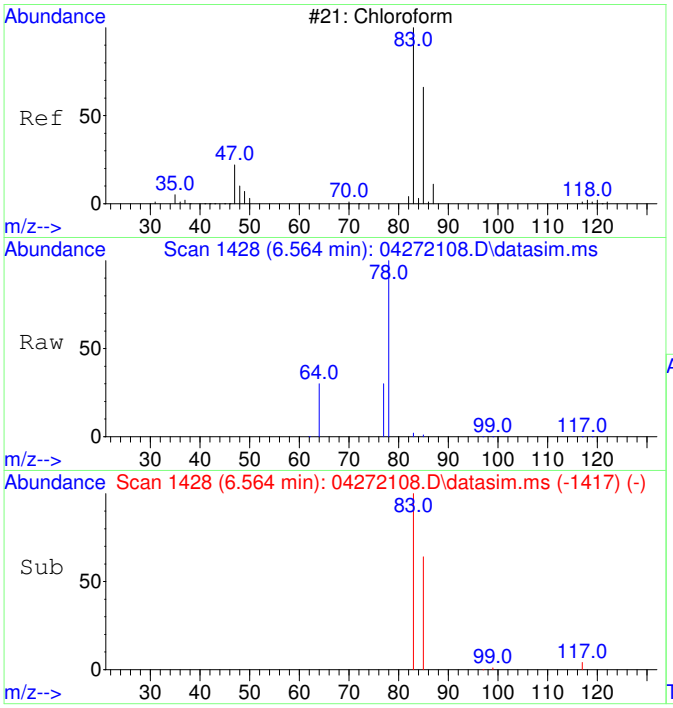


#5
cis-1,2-Dichloroethene
Concen: 48.36 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 61 Resp: 566

Ion	Ratio	Lower	Upper
61	100		
63	39.9	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

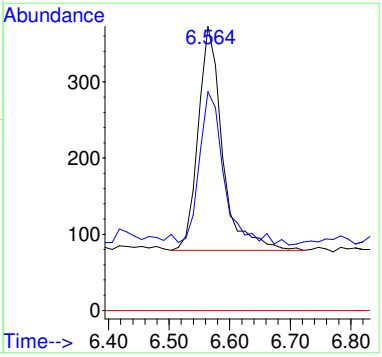


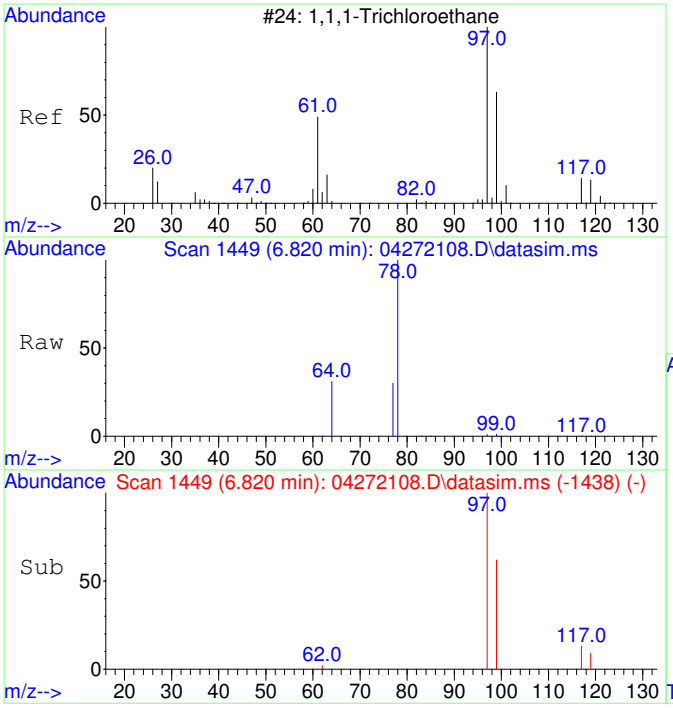


#6
Chloroform
Concen: 59.24 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.012 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 83 Resp: 816

Ion	Ratio	Lower	Upper
83	100		
85	71.0	34.5	94.5
87	0.0	0.0	20.0

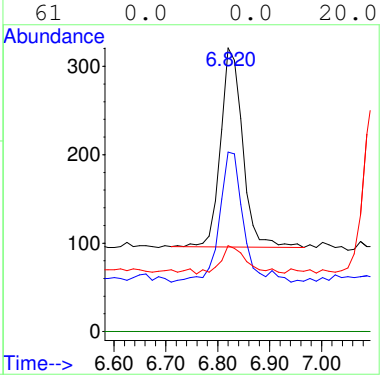


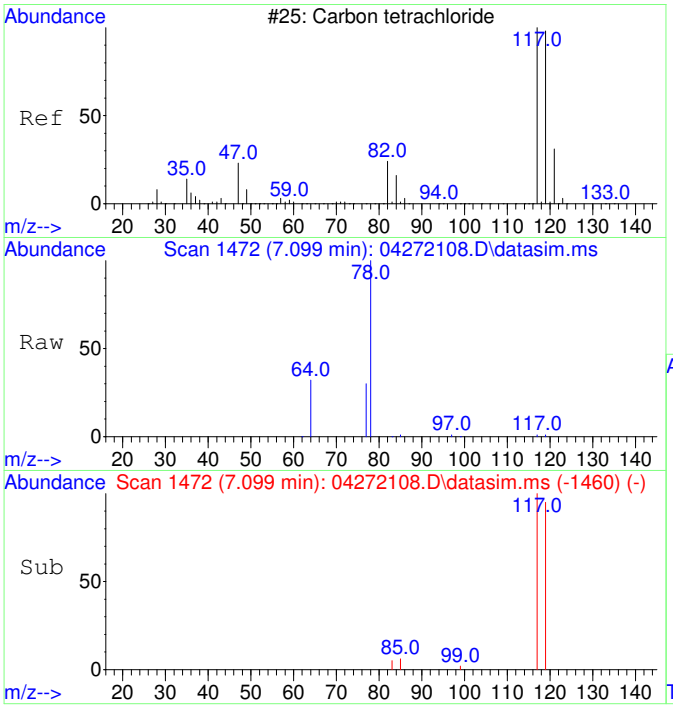


#7
1,1,1-Trichloroethane
Concen: 52.12 ug/L
RT: 6.820 min Scan# 1449
Delta R.T. -0.012 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 97 Resp: 668

Ion	Ratio	Lower	Upper
97	100		
99	68.1	34.4	94.4
117	17.1	0.0	42.8
61	0.0	0.0	20.0

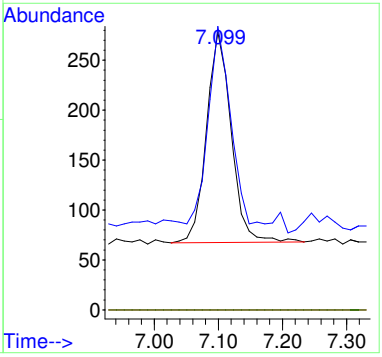


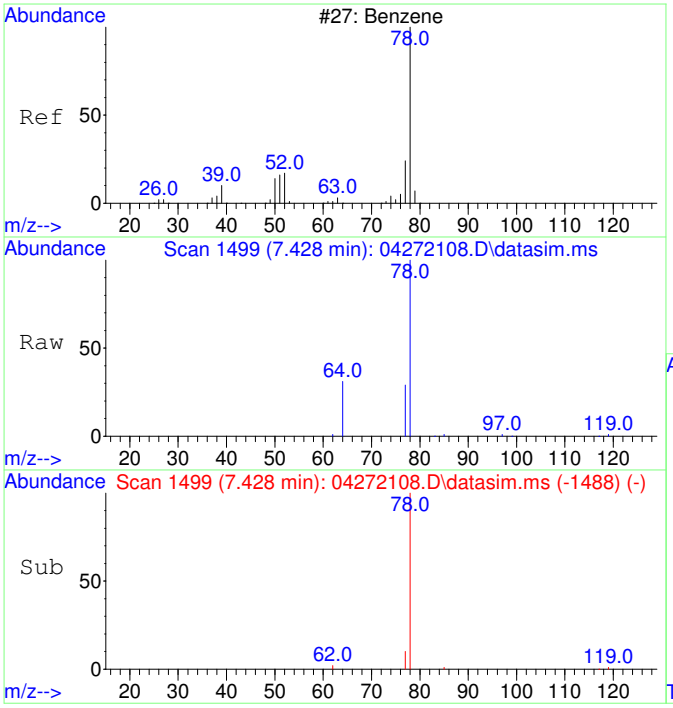


#8
Carbon tetrachloride
Concen: 50.69 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:117 Resp: 566

Ion	Ratio	Lower	Upper
117	100		
119	90.3	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

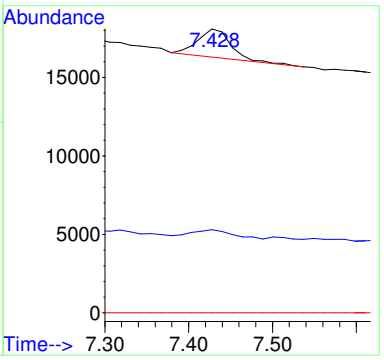


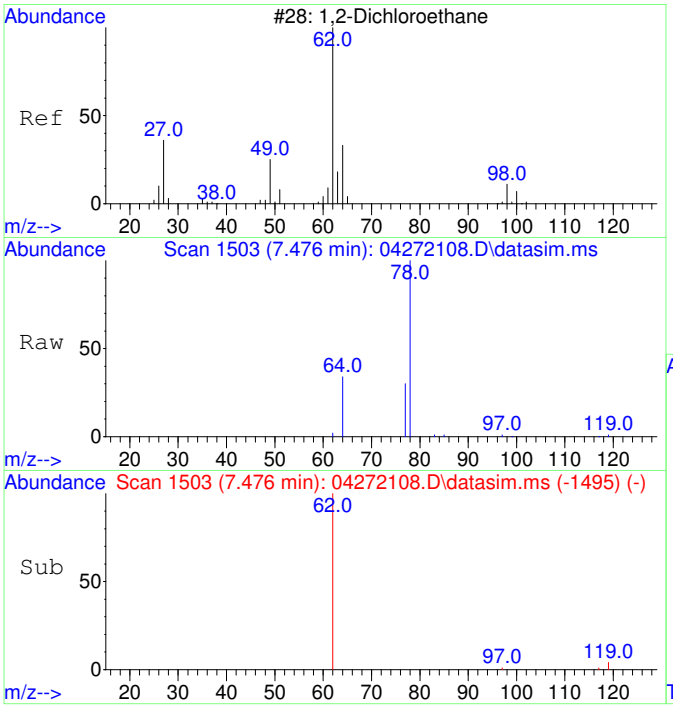


#9
Benzene
Concen: 120.92 ug/L
RT: 7.428 min Scan# 1499
Delta R.T. -0.012 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 78 Resp: 4680

Ion	Ratio	Lower	Upper
78	100		
77	43.4	0.0	53.7
52	0.0	0.0	20.0

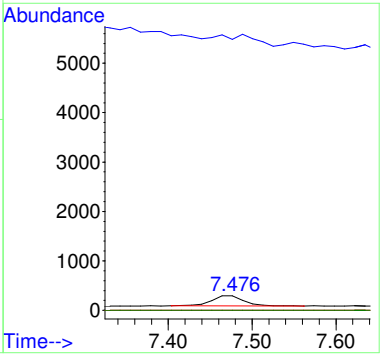


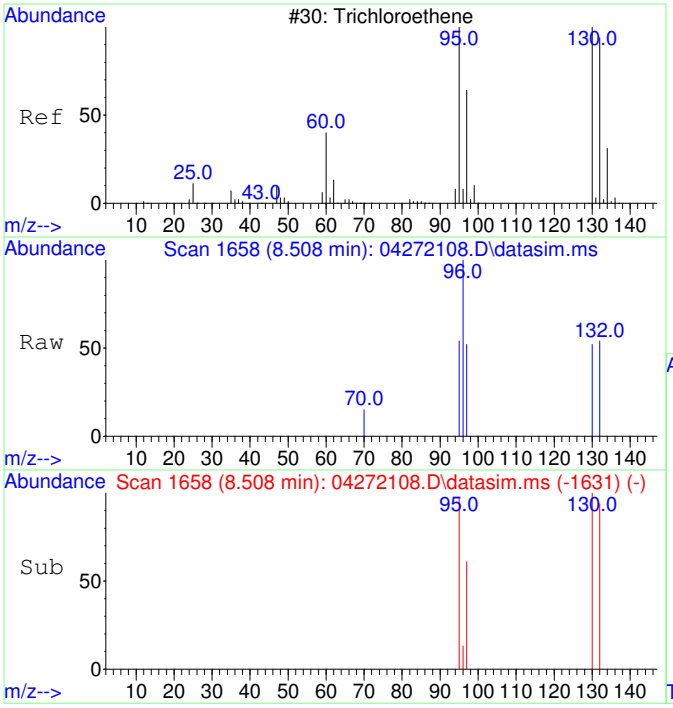


#10
1,2-Dichloroethane
Concen: 51.67 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 62 Resp: 550

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

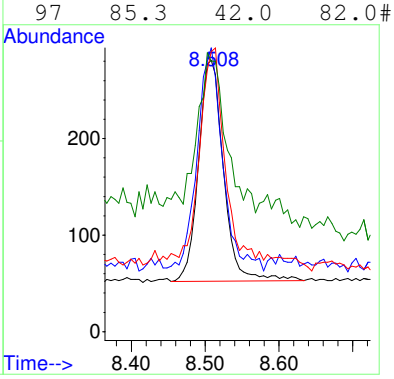


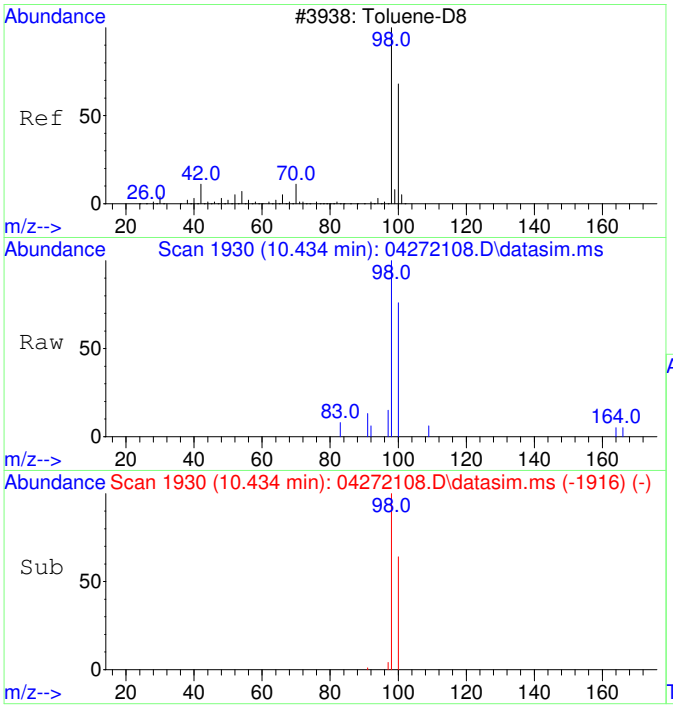


#11
Trichloroethene
Concen: 52.30 ug/L
RT: 8.508 min Scan# 1658
Delta R.T. -0.005 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:130 Resp: 539

Ion	Ratio	Lower	Upper
130	100		
95	96.7	65.8	125.8
132	108.3	75.8	115.8
97	85.3	42.0	82.0#

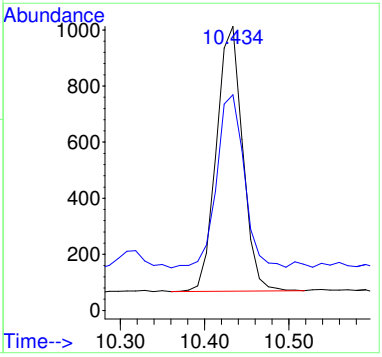


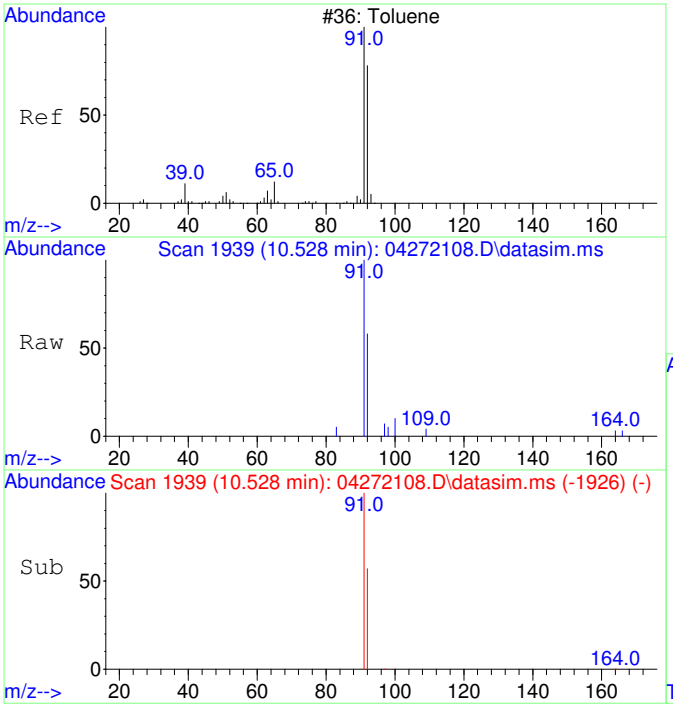


#12
Toluene-d8
Concen: 50.29 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 98 Resp: 2047

Ion	Ratio	Lower	Upper
98	100		
100	68.1	37.3	97.3

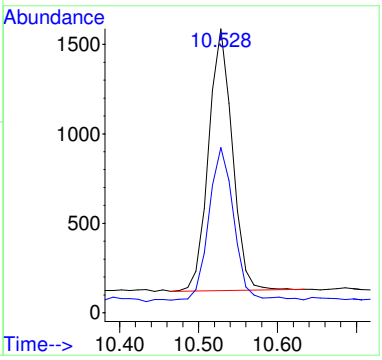


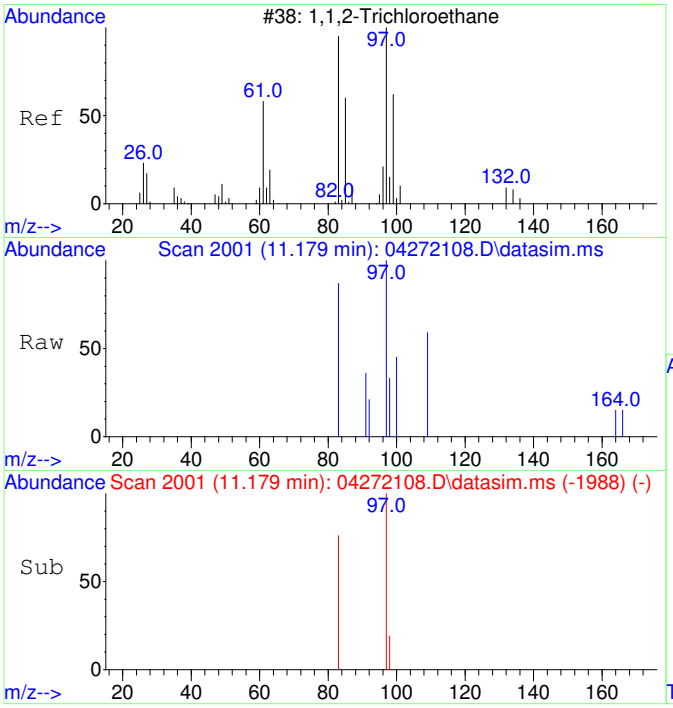


#13
Toluene
Concen: 57.53 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.010 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 91 Resp: 3048

Ion	Ratio	Lower	Upper
91	100		
92	65.0	30.2	90.2

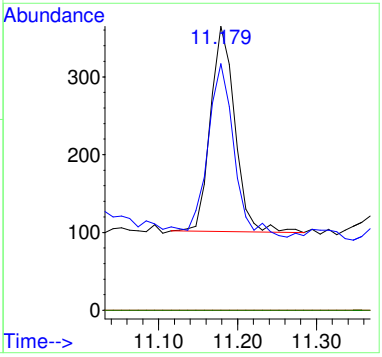


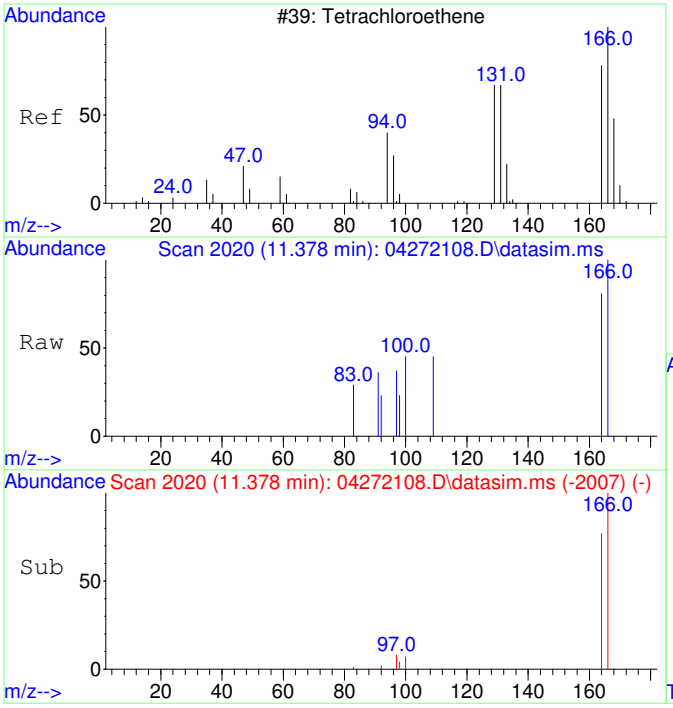


#14
1,1,2-Trichloroethane
Concen: 51.08 ug/L
RT: 11.179 min Scan# 2001
Delta R.T. -0.010 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 97 Resp: 563

Ion	Ratio	Lower	Upper
97	100		
83	91.8	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

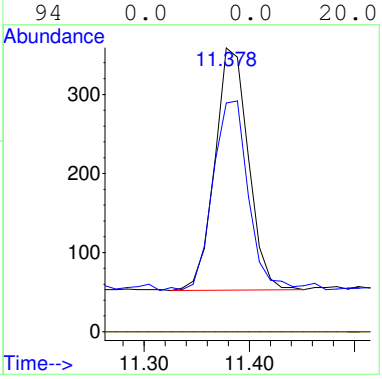


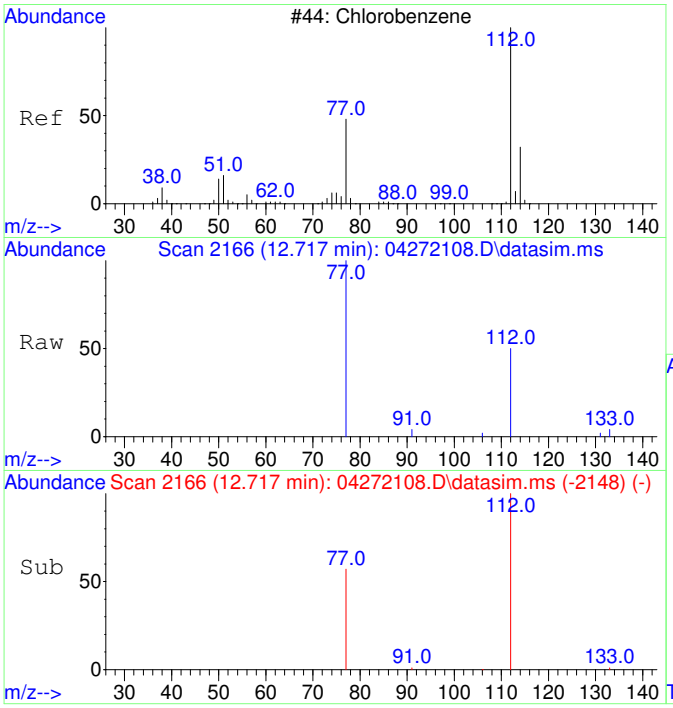


#15
Tetrachloroethene
Concen: 50.10 ug/L
RT: 11.378 min Scan# 2020
Delta R.T. -0.010 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:166 Resp: 679

Ion	Ratio	Lower	Upper
166	100		
164	83.2	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

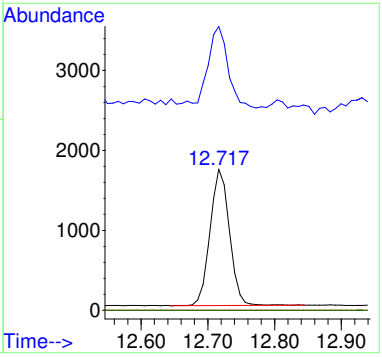


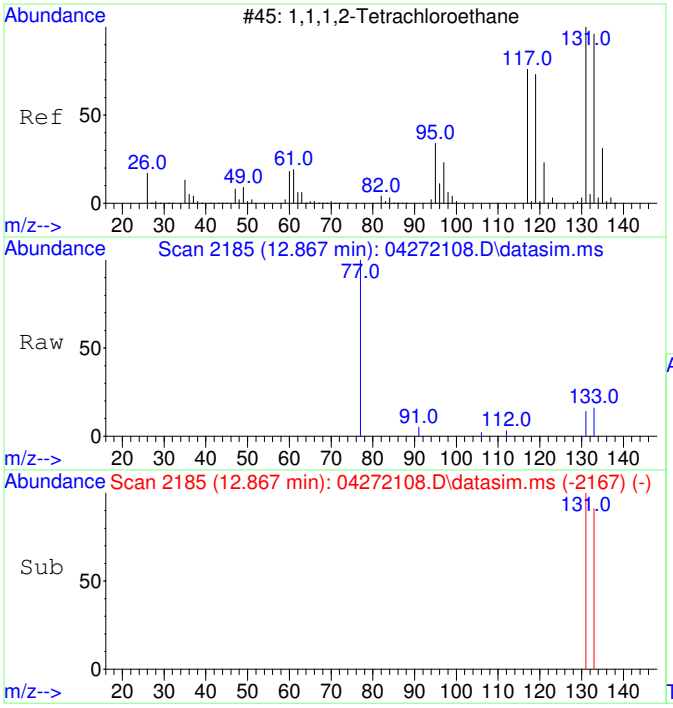


#16
Chlorobenzene
Concen: 74.57 ug/L
RT: 12.717 min Scan# 2166
Delta R.T. -0.008 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:112 Resp: 3421

Ion	Ratio	Lower	Upper
112	100		
77	63.1	27.0	87.0
114	0.0	0.0	20.0
51	0.0	0.0	20.0

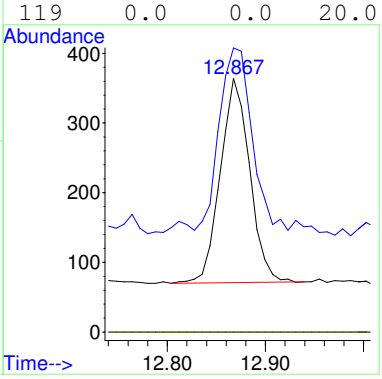


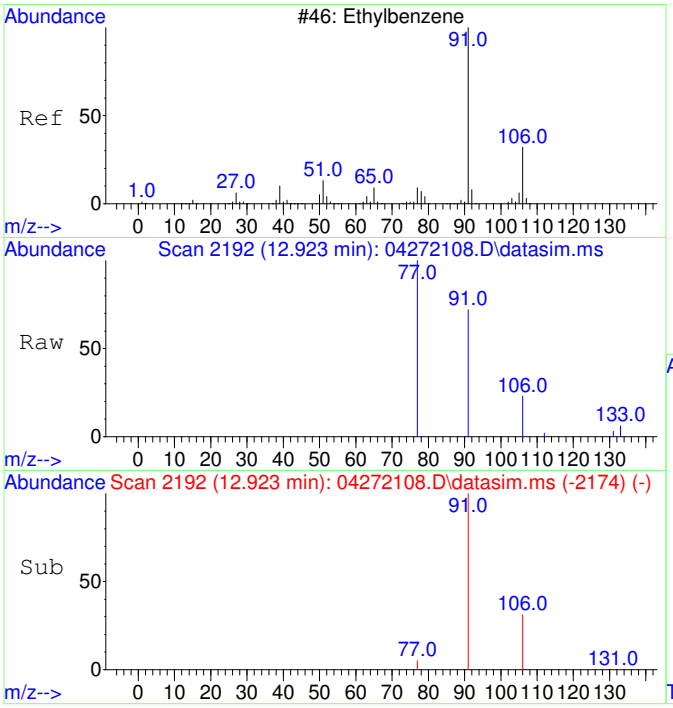


#17
1,1,1,2-Tetrachloroethane
Concen: 49.72 ug/L
RT: 12.867 min Scan# 2185
Delta R.T. -0.008 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:131 Resp: 607

Ion	Ratio	Lower	Upper
131	100		
133	98.2	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

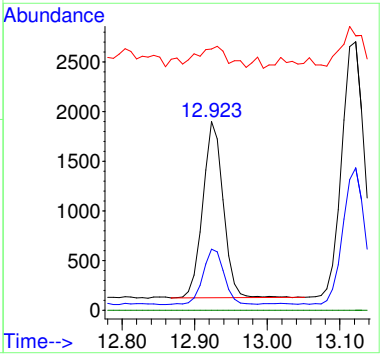


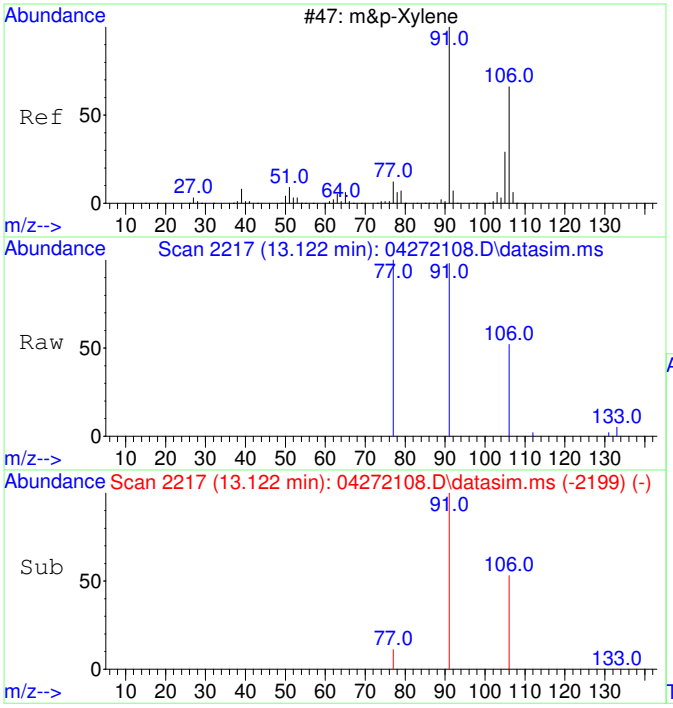


#18
Ethylbenzene
Concen: 51.02 ug/L
RT: 12.923 min Scan# 2192
Delta R.T. -0.008 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 91 Resp: 3471

Ion	Ratio	Lower	Upper
91	100		
106	32.6	2.8	62.8
77	16.7	0.0	38.2
105	0.0	0.0	20.0

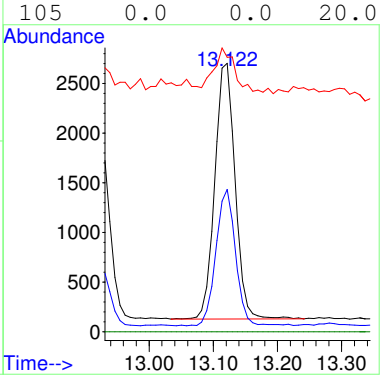


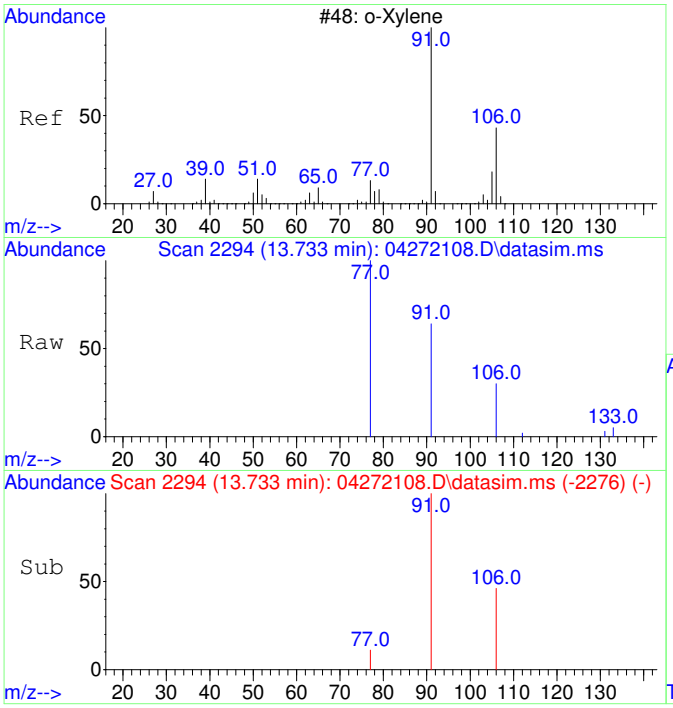


#19
m&p-Xylene
Concen: 105.08 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. -0.008 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 91 Resp: 5632

Ion	Ratio	Lower	Upper
91	100		
106	51.7	21.4	81.4
77	17.3	0.0	42.7
105	0.0	0.0	20.0

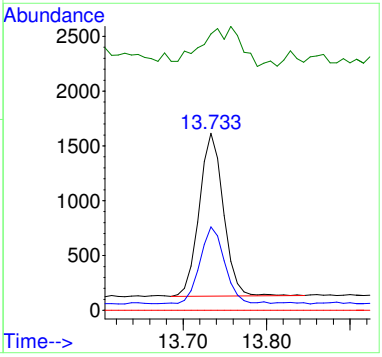


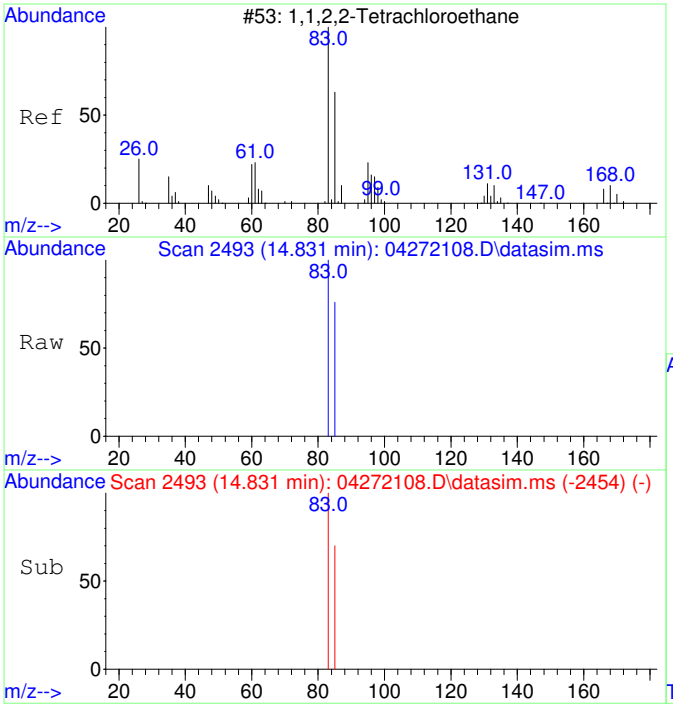


#20
o-Xylene
Concen: 51.63 ug/L
RT: 13.733 min Scan# 2294
Delta R.T. -0.008 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 91 Resp: 2993

Ion	Ratio	Lower	Upper
91	100		
106	47.9	18.7	78.7
105	0.0	0.0	30.0
77	0.0	7.3	47.3#

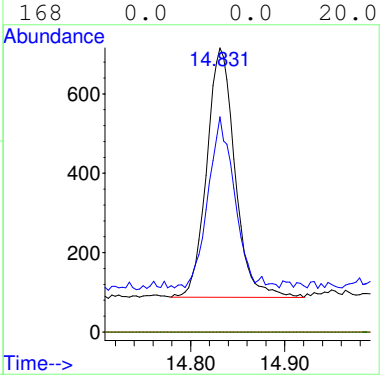


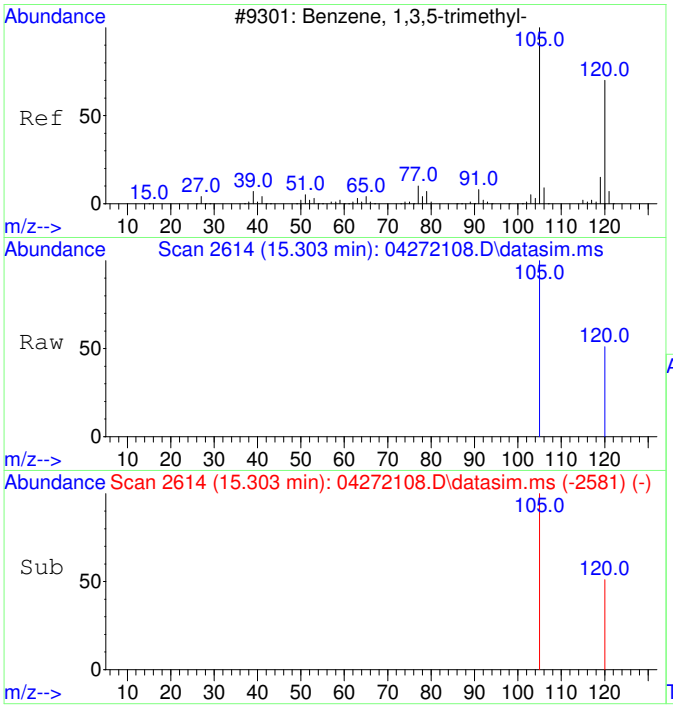


#21
1,1,2,2-Tetrachloroethane
Concen: 51.82 ug/L
RT: 14.831 min Scan# 2493
Delta R.T. -0.007 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 83 Resp: 1309

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

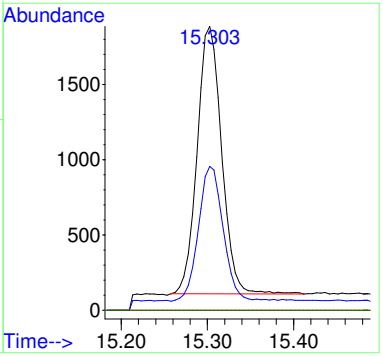


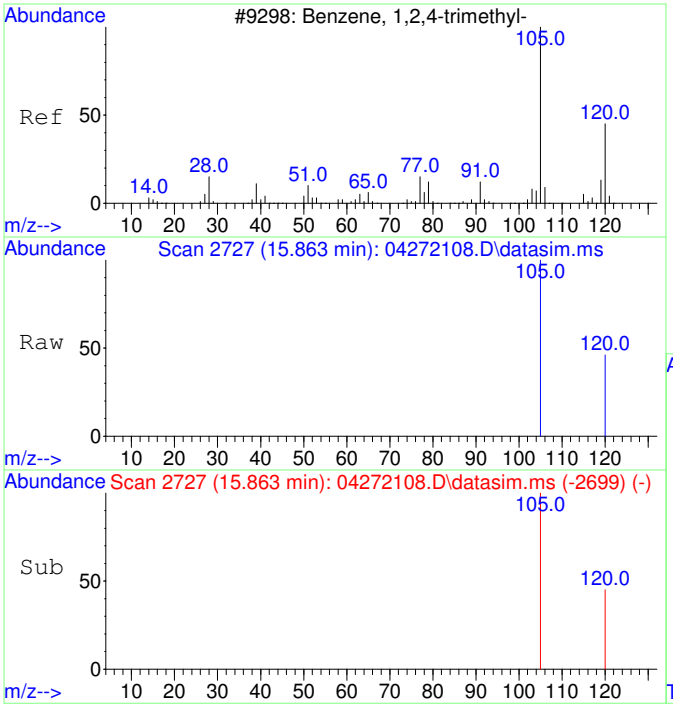


#22
1,3,5-Trimethylbenzene
Concen: 51.46 ug/L
RT: 15.303 min Scan# 2614
Delta R.T. -0.005 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:105 Resp: 3504

Ion	Ratio	Lower	Upper
105	100		
120	50.9	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

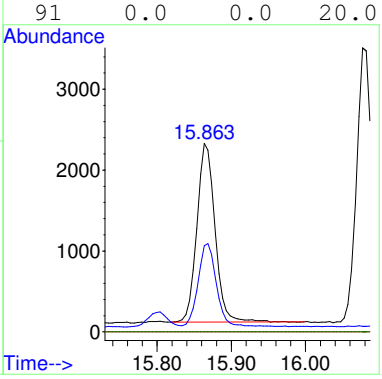


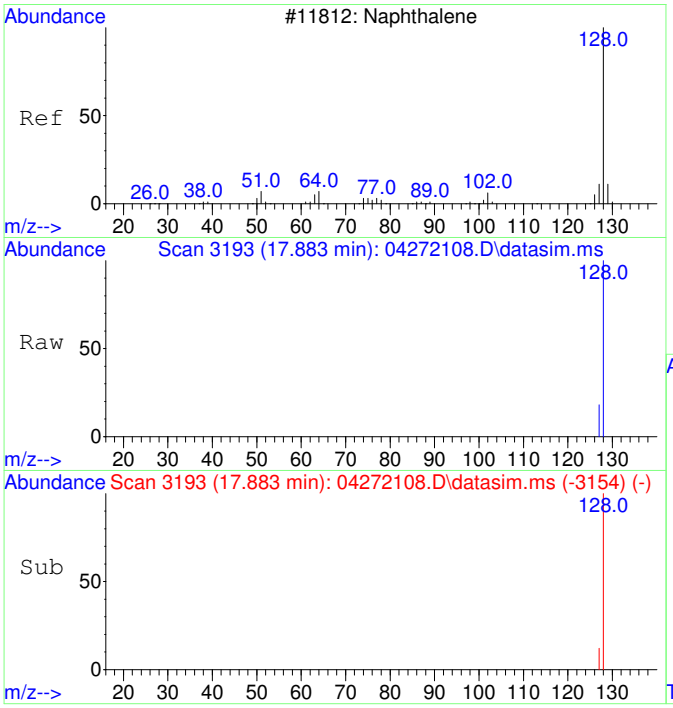


#23
1,2,4-Trimethylbenzene
Concen: 52.74 ug/L
RT: 15.863 min Scan# 2727
Delta R.T. -0.010 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:105 Resp: 3740

Ion	Ratio	Lower	Upper
105	100		
120	45.5	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

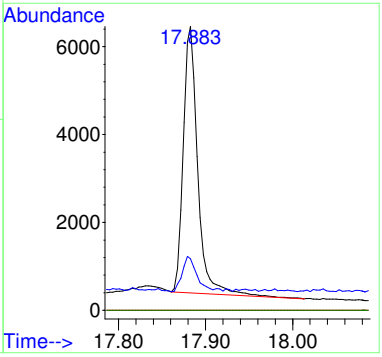


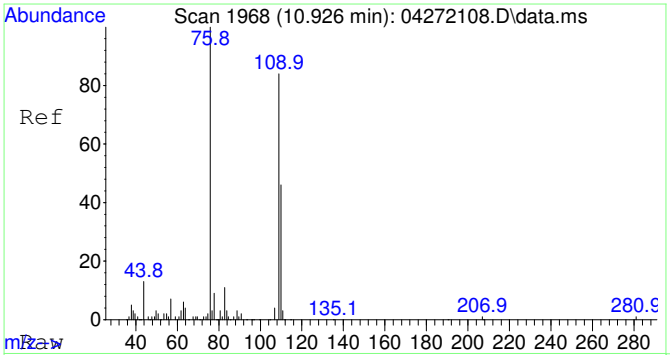


#24
Naphthalene
Concen: 52.66 ug/L
RT: 17.883 min Scan# 3193
Delta R.T. -0.004 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:128 Resp: 6975

Ion	Ratio	Lower	Upper
128	100		
127	13.1	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

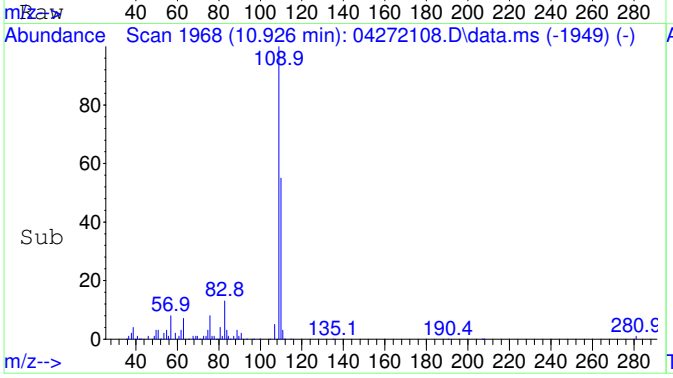


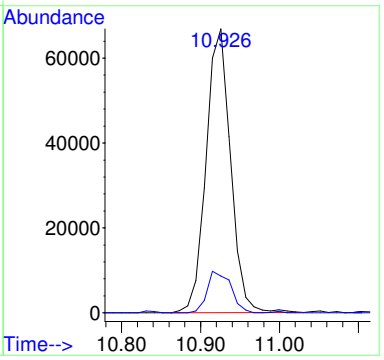


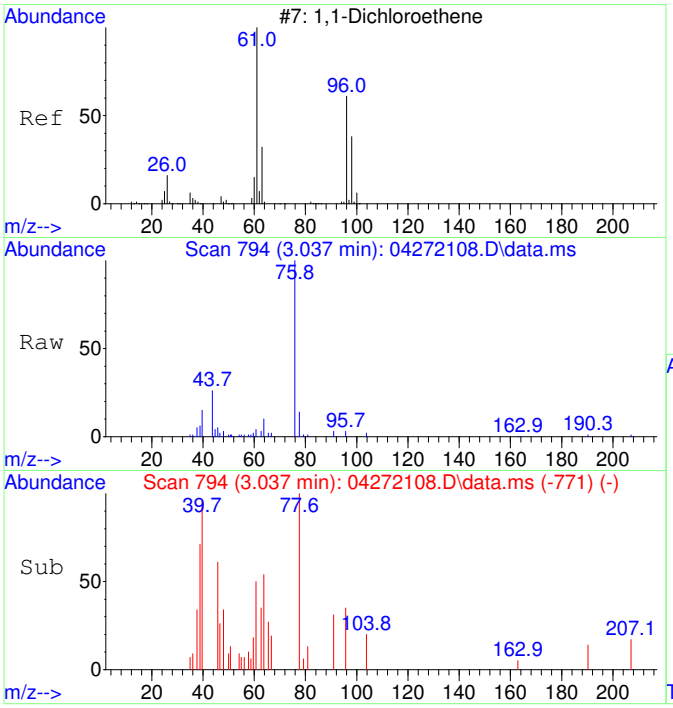
#25
2-Fluorotoluene SCAN
Concen: 4929.73 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:109 Resp: 144175

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	44.5



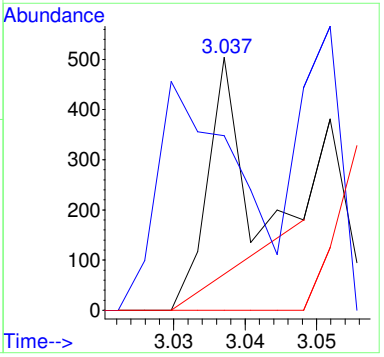


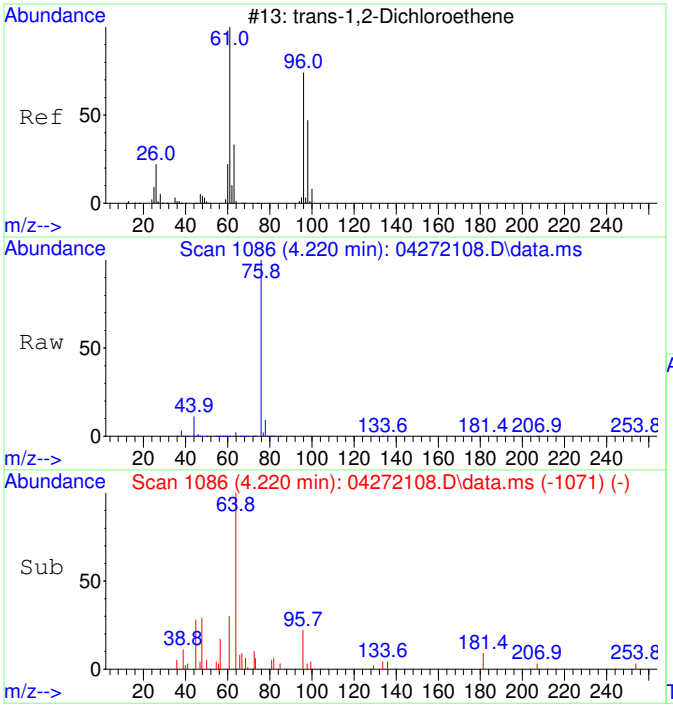


#26
1,1-Dichloroethene SCAN
Concen: 24.77 ug/L
RT: 3.037 min Scan# 794
Delta R.T. -0.015 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 61 Resp: 153

Ion	Ratio	Lower	Upper
61	100		
96	185.6	33.0	93.0#
98	0.0	12.5	72.5#

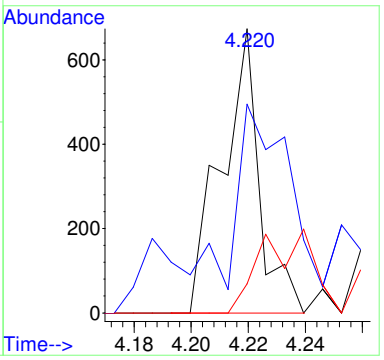


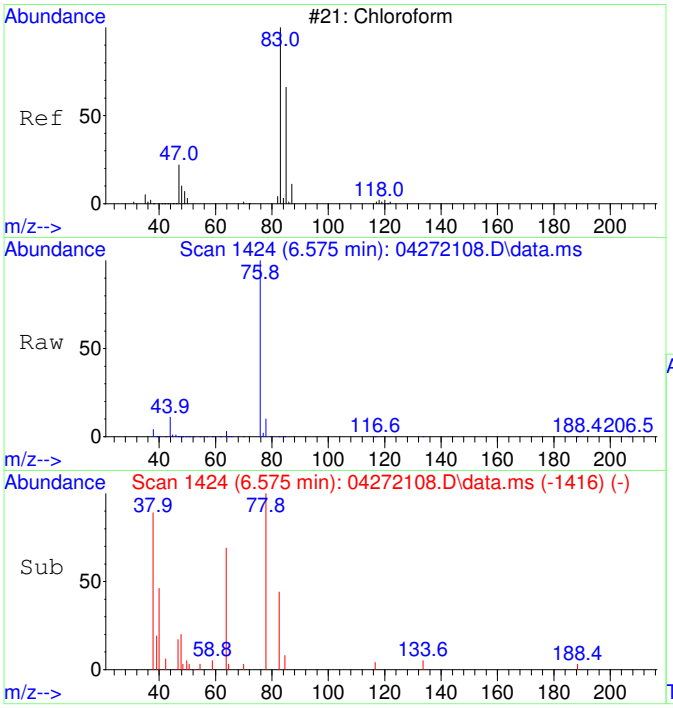


#27
trans-1,2-Dichloroethene SCAN
Concen: 92.78 ug/L
RT: 4.220 min Scan# 1086
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 61 Resp: 620

Ion	Ratio	Lower	Upper
61	100		
96	78.4	49.3	109.3
98	40.3	24.0	84.0

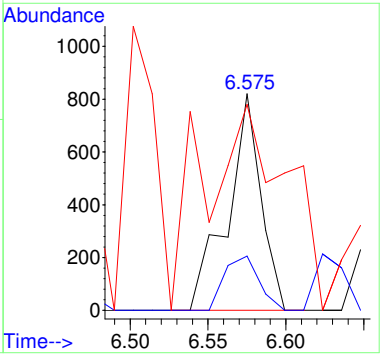


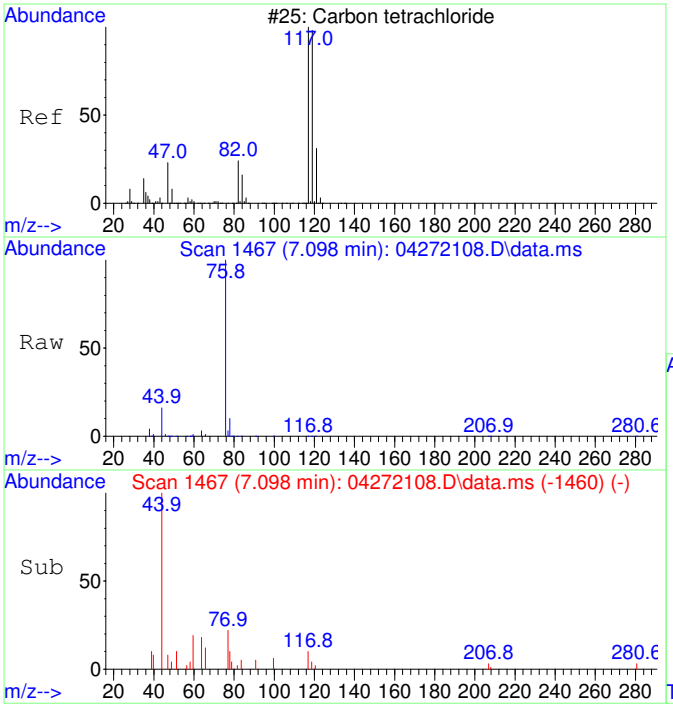


#30
Chloroform SCAN
Concen: 128.83 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 83 Resp: 1231

Ion	Ratio	Lower	Upper
83	100		
85	26.0	27.1	87.1#
47	235.2	7.5	67.5#

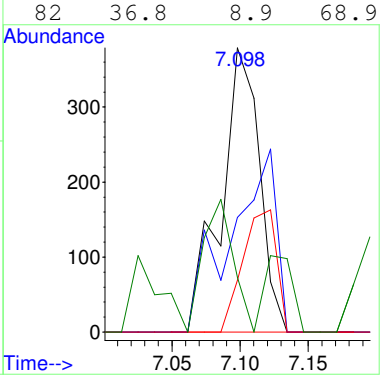


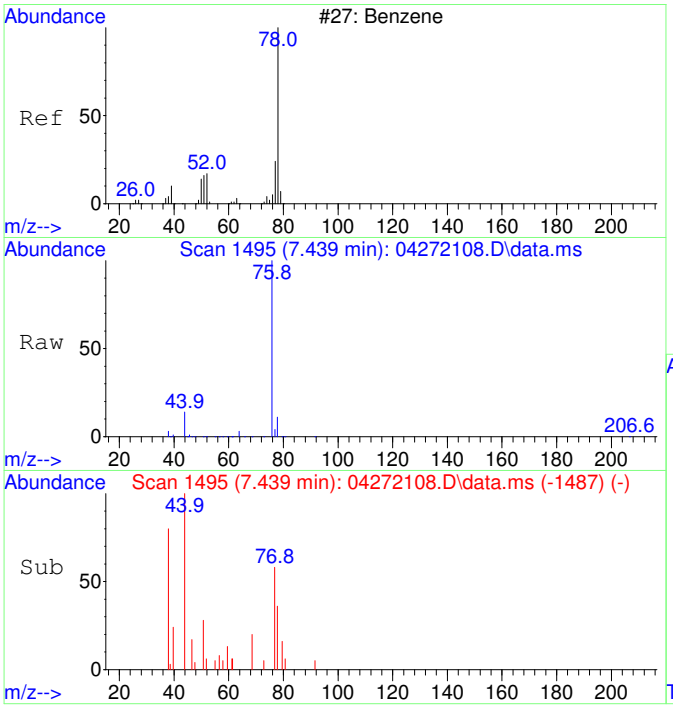


#32
Carbon tetrachloride SCAN
Concen: 101.13 ug/L
RT: 7.098 min Scan# 1467
Delta R.T. -0.012 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:117 Resp: 745

Ion	Ratio	Lower	Upper
117	100		
119	0.0	68.0	128.0#
121	0.0	0.0	59.0
82	36.8	8.9	68.9

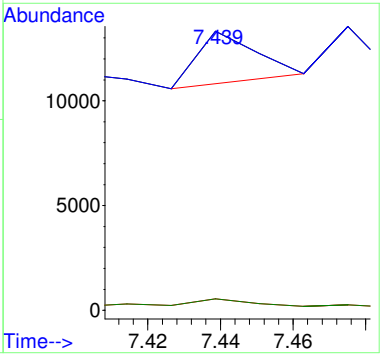


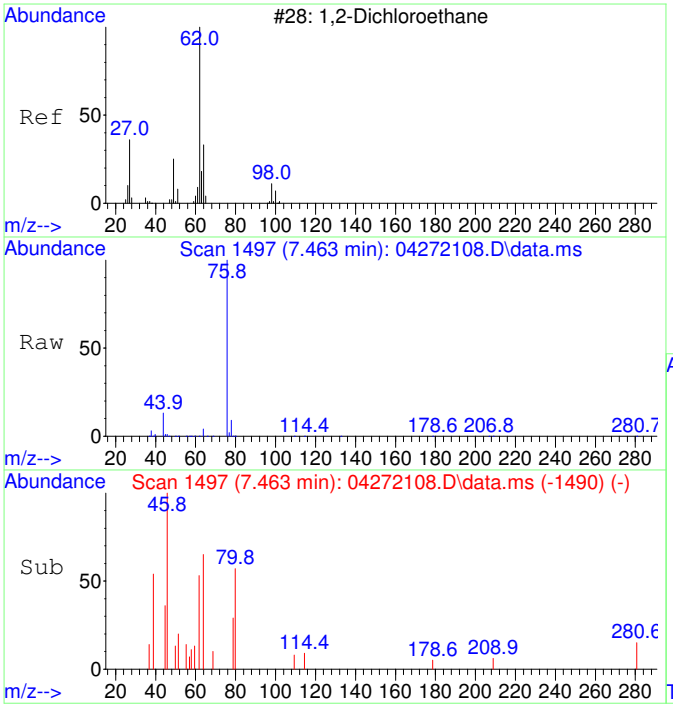


#33
Benzene SCAN
Concen: 132.40 ug/L
RT: 7.439 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 78 Resp: 2968

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	40.1	0.0	46.7
51	40.1	0.0	46.7

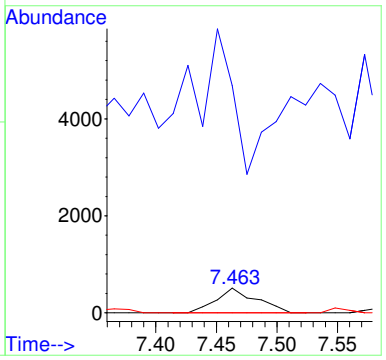


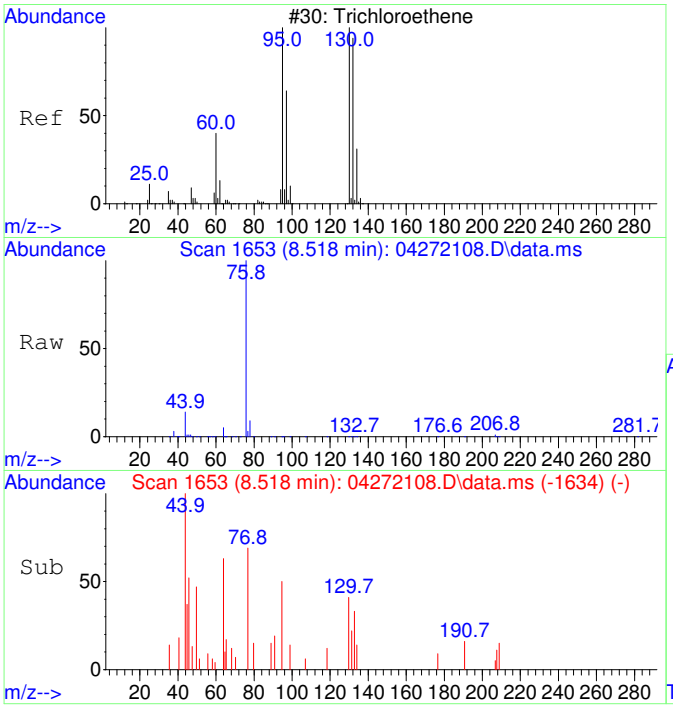


#34
1,2-Dichloroethane SCAN
Concen: 166.55 ug/L
RT: 7.463 min Scan# 1497
Delta R.T. -0.012 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 62 Resp: 1177

Ion	Ratio	Lower	Upper
62	100		
64	401.1	13.3	73.3#
49	0.0	4.1	64.1#

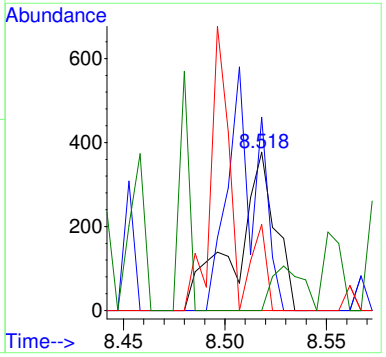


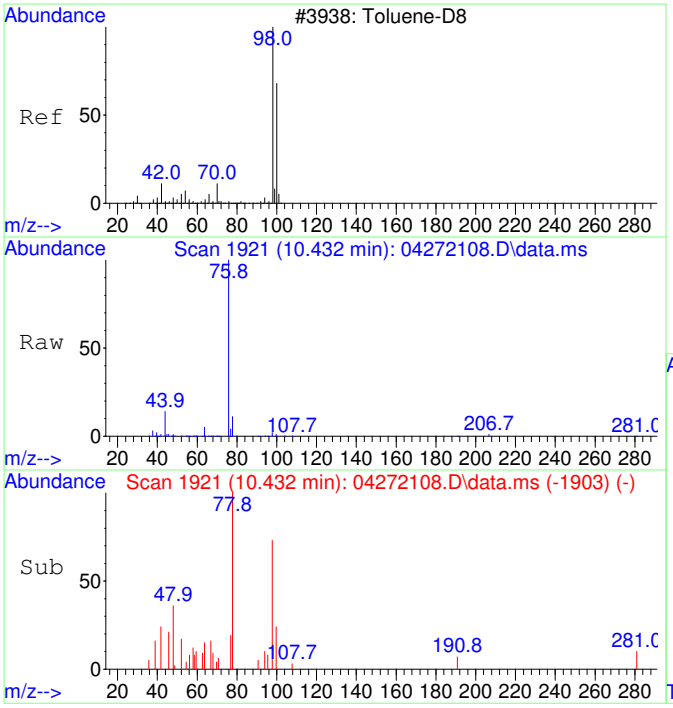


#35
Trichloroethene SCAN
Concen: 89.08 ug/L
RT: 8.518 min Scan# 1653
Delta R.T. 0.006 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:130 Resp: 509

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.0	120.0#
132	0.0	54.3	114.3#
97	21.8	24.6	84.6#

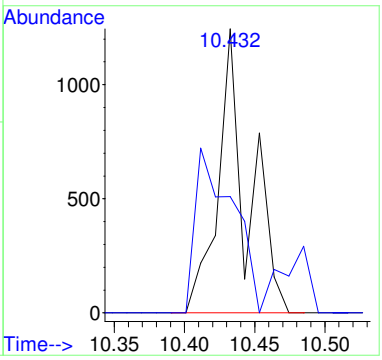


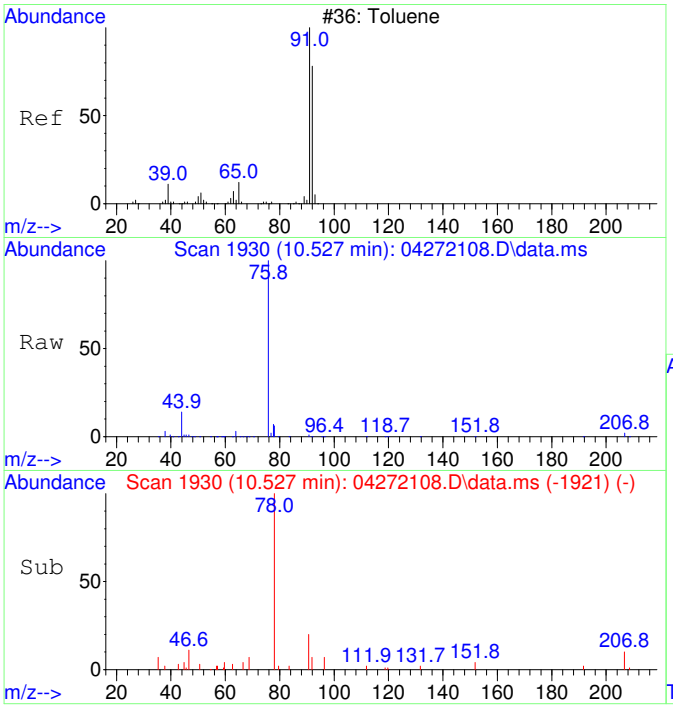


#36
Toluene-d8 SCAN
Concen: 71.91 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. -0.010 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 98 Resp: 1824

Ion	Ratio	Lower	Upper
98	100		
100	0.0	36.1	96.1#

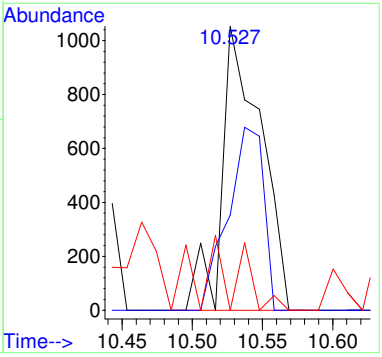


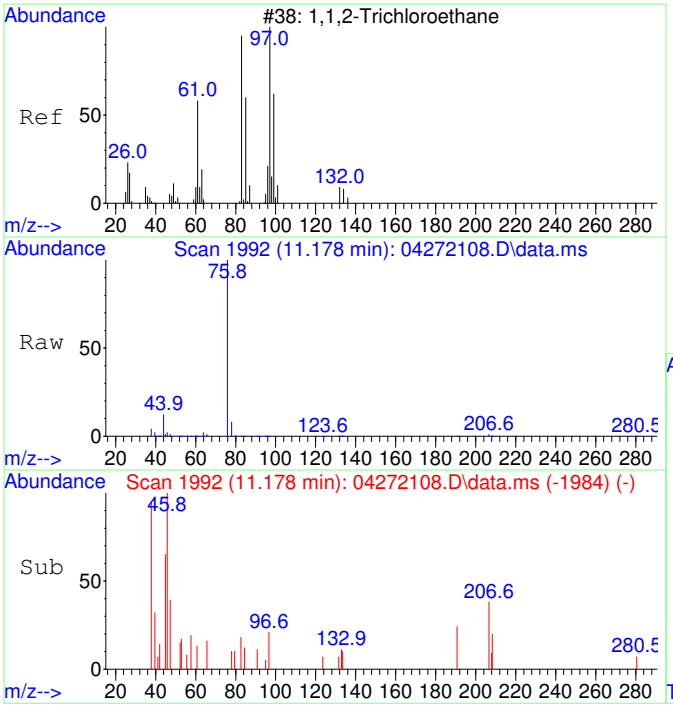


#37
Toluene SCAN
Concen: 62.44 ug/L
RT: 10.527 min Scan# 1930
Delta R.T. -0.010 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 91 Resp: 2050

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.5	86.5#
65	17.9	0.0	40.6

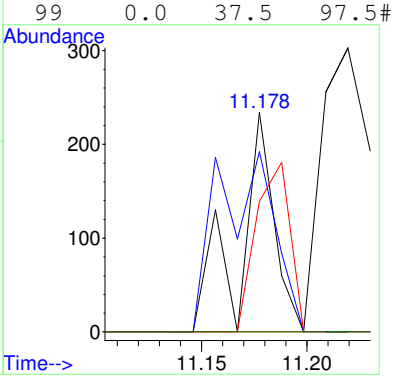


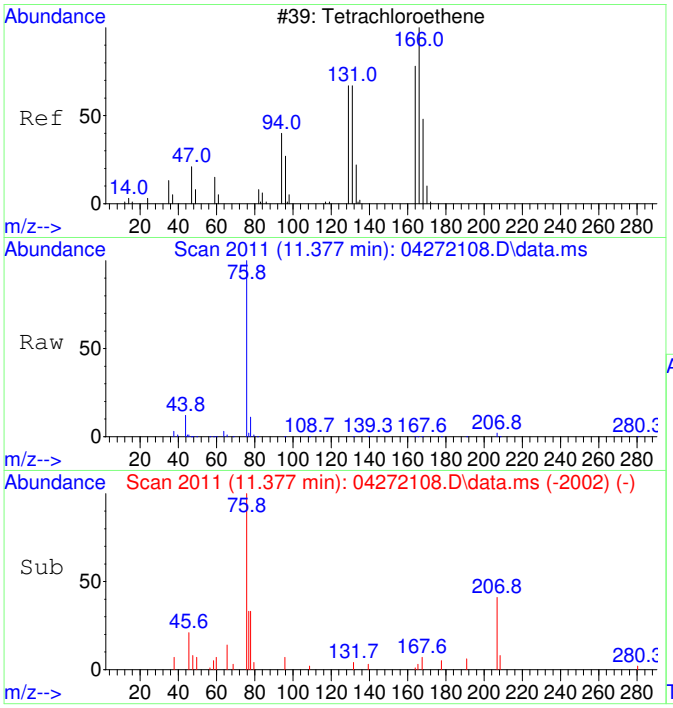


#38
1,1,2-Trichloroethane SCAN
Concen: 34.14 ug/L
RT: 11.178 min Scan# 1992
Delta R.T. -0.021 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 97 Resp: 267

Ion	Ratio	Lower	Upper
97	100		
83	132.2	52.0	112.0#
61	75.3	30.8	90.8
99	0.0	37.5	97.5#

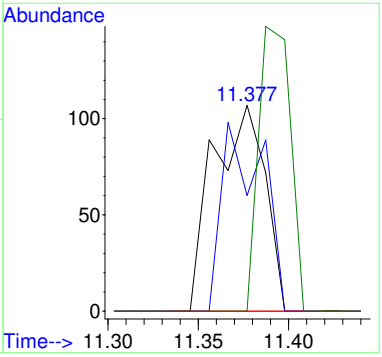


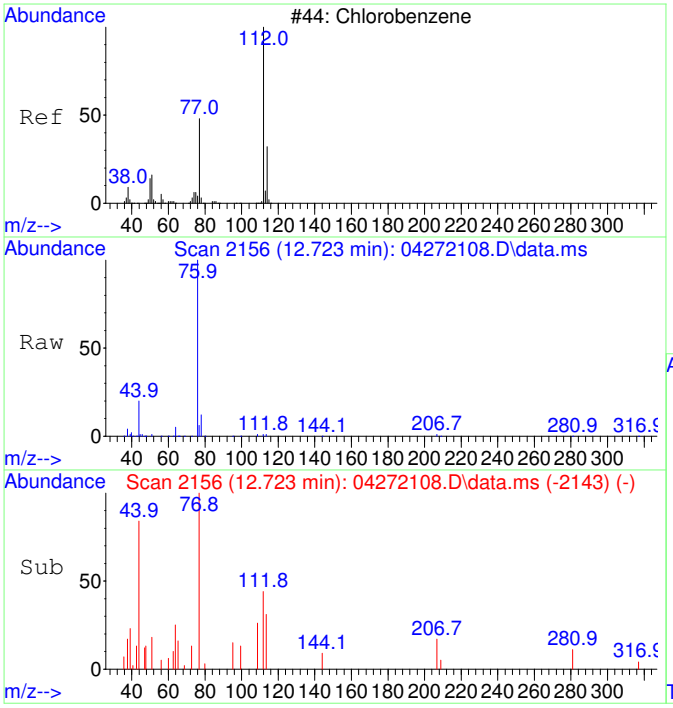


#39
Tetrachloroethene SCAN
Concen: 27.20 ug/L
RT: 11.377 min Scan# 2011
Delta R.T. -0.010 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:166 Resp: 215

Ion	Ratio	Lower	Upper
166	100		
164	0.0	53.9	113.9#
131	0.0	45.6	105.6#
129	84.7	51.3	111.3

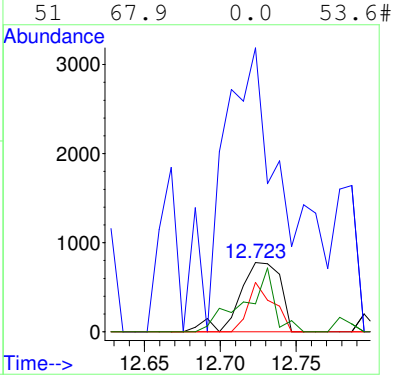


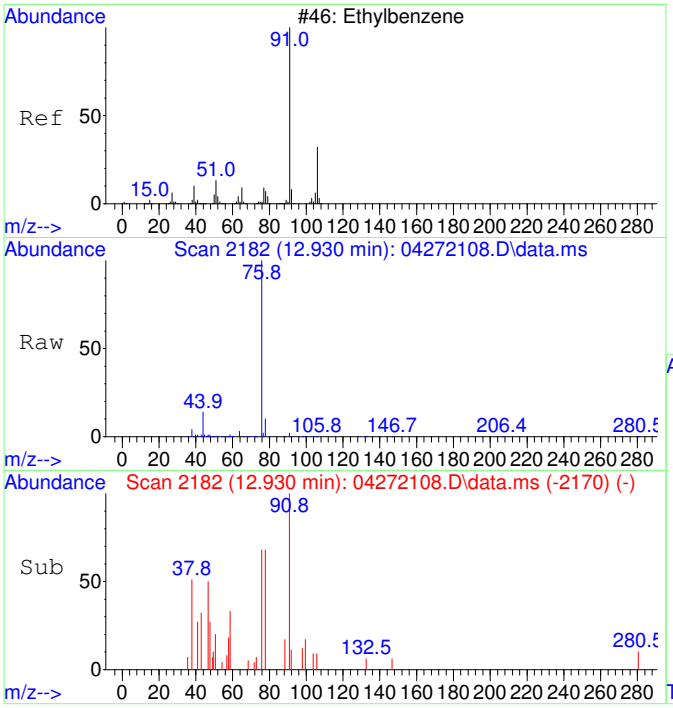


#40
Chlorobenzene SCAN
Concen: 59.78 ug/L
RT: 12.723 min Scan# 2156
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:112 Resp: 1463

Ion	Ratio	Lower	Upper
112	100		
77	487.6	48.5	108.5#
114	43.7	4.9	64.9
51	67.9	0.0	53.6#

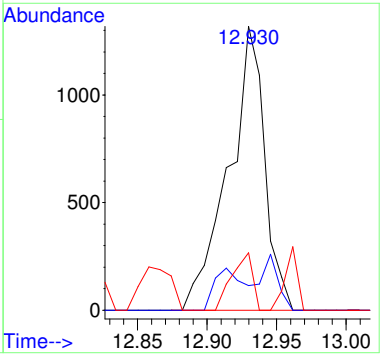


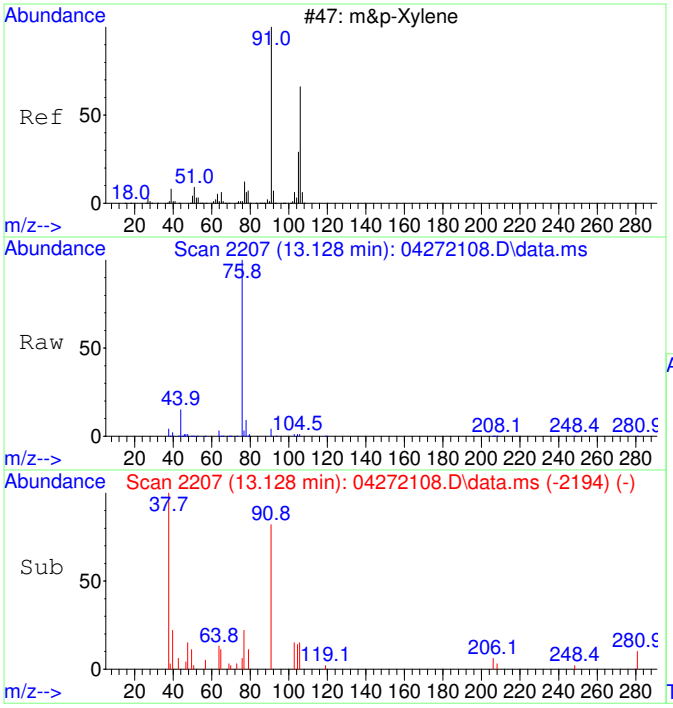


#42
Ethylbenzene SCAN
Concen: 54.34 ug/L
RT: 12.930 min Scan# 2182
Delta R.T. -0.008 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 91 Resp: 2378

Ion	Ratio	Lower	Upper
91	100		
106	7.4	0.5	60.5
51	11.7	0.0	39.6

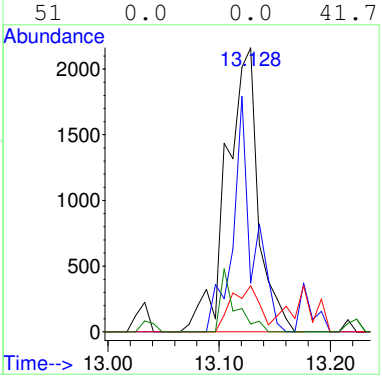


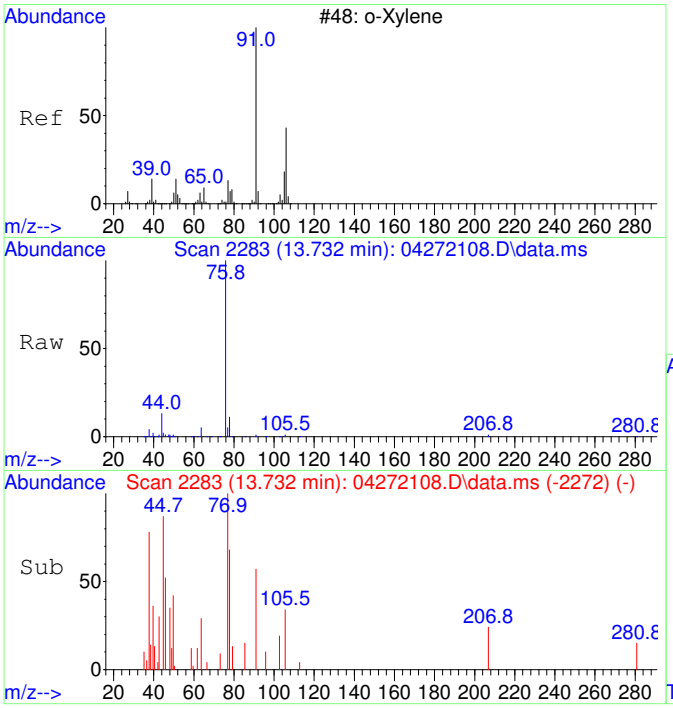


#43
m&p-Xylene SCAN
Concen: 65.69 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 91 Resp: 4289

Ion	Ratio	Lower	Upper
91	100		
106	52.2	21.2	81.2
105	12.7	0.0	51.6
51	0.0	0.0	41.7

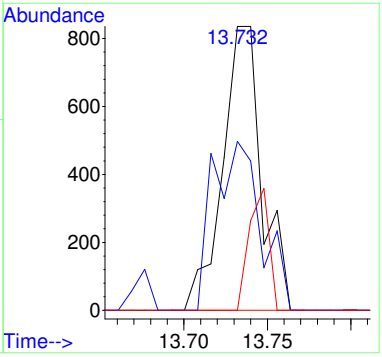


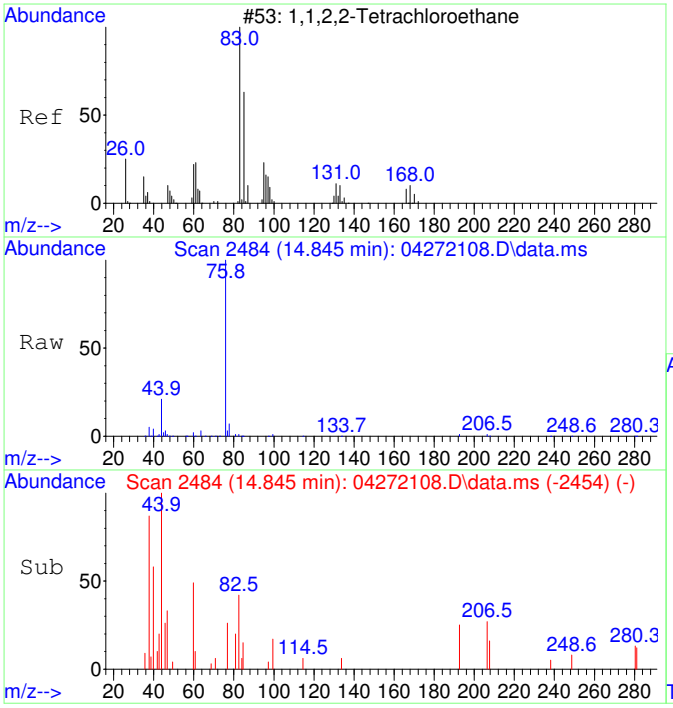


#44
o-Xylene SCAN
Concen: 38.06 ug/L
RT: 13.732 min Scan# 2283
Delta R.T. -0.016 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 91 Resp: 1367

Ion	Ratio	Lower	Upper
91	100		
106	72.8	19.1	79.1
105	21.7	0.0	55.6

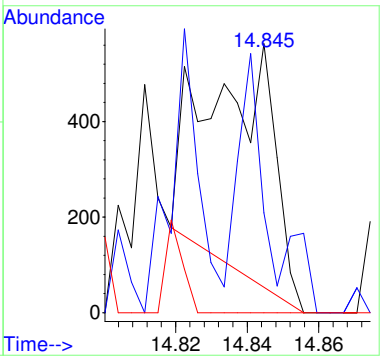


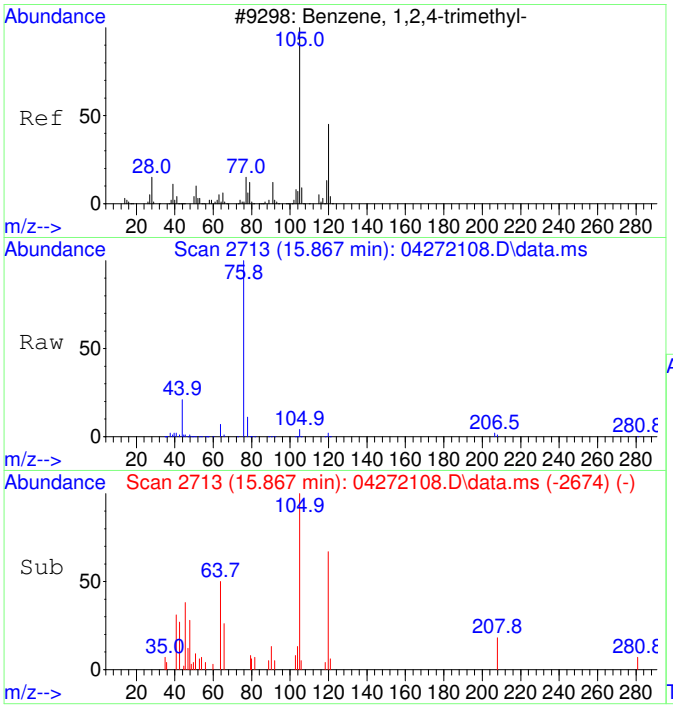


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 33.89 ug/L
RT: 14.845 min Scan# 2484
Delta R.T. 0.011 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion: 83 Resp: 595

Ion	Ratio	Lower	Upper
83	100		
85	47.1	34.1	94.1
95	0.0	0.0	46.2

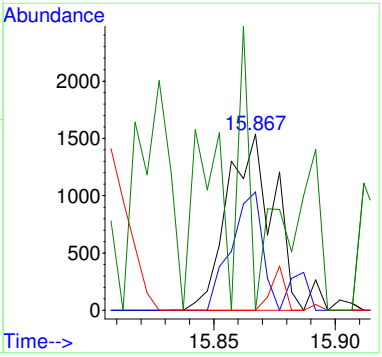


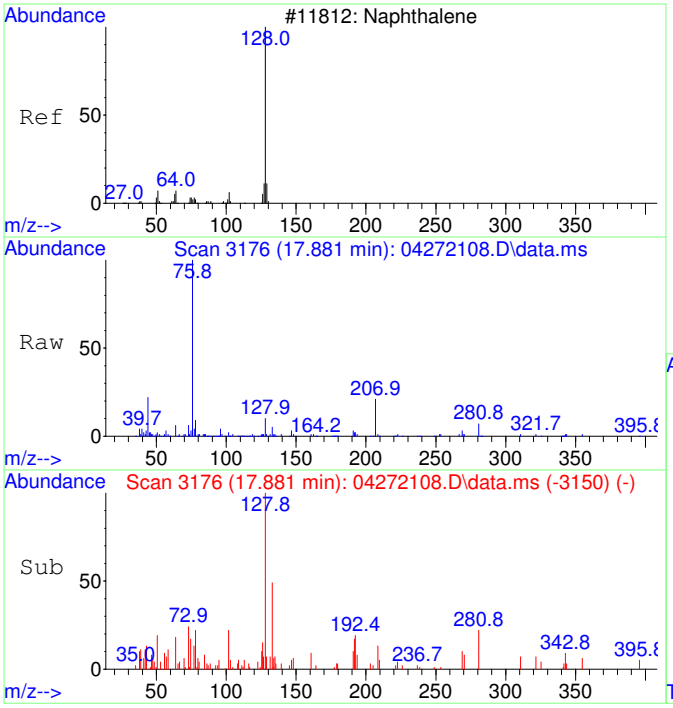


#47
1,2,4-Trimethylbenzene SCAN
Concen: 49.74 ug/L
RT: 15.867 min Scan# 2713
Delta R.T. -0.005 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:105 Resp: 2031

Ion	Ratio	Lower	Upper
105	100		
120	46.0	15.6	75.6
119	0.0	0.0	38.2
77	36.4	0.0	44.0

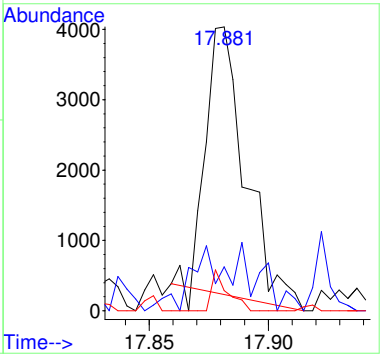




#48
Naphthalene SCAN
Concen: 58.39 ug/L
RT: 17.881 min Scan# 3176
Delta R.T. -0.004 min
Lab File: 04272108.D
Acq: 27 Apr 2021 15:50

Tgt Ion:128 Resp: 4347

Ion	Ratio	Lower	Upper
128	100		
127	12.2	0.0	41.1
129	6.3	0.0	39.5



S21D071-SCV1

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272109.D
Acq On : 27 Apr 2021 16:17
InstName : AG5975C
Operator : TD
Sample : S21D071-SCV1
Misc : 2106043 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 06:47:05 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

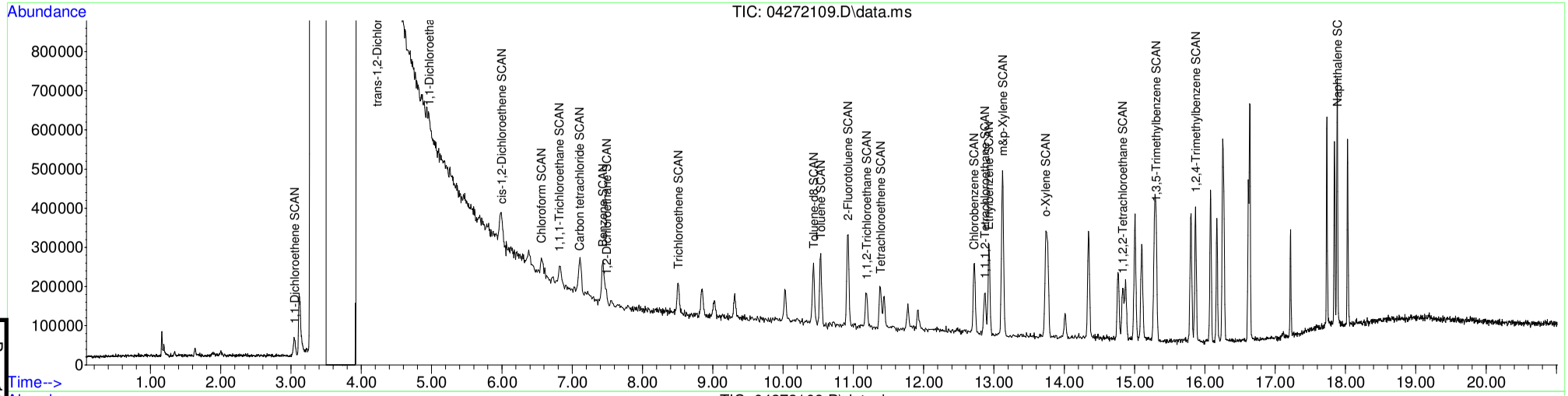
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.926	109	234781	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	197298	4905.96 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 98.12%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.045	61	55613	5438.37 ug/L #	99
3] trans-1,2-Dichloroethene	4.220	61	42893	4873.89 ug/L #	100
4] 1,1-Dichloroethane	4.963	63	58990	4887.21 ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	58052	5019.46 ug/L #	100
6] Chloroform	6.564	83	63621	4674.12 ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	61786	4878.52 ug/L #	100
8] Carbon tetrachloride	7.099	117	54762	4963.24 ug/L #	100
9] Benzene	7.427	78	176024	4602.90 ug/L #	100
10] 1,2-Dichloroethane	7.476	62	53031	5041.87 ug/L #	98
11] Trichloroethene	8.508	130	50123	4922.30 ug/L	98
13] Toluene	10.528	91	252306	4819.84 ug/L	100
14] 1,1,2-Trichloroethane	11.178	97	54666	5019.86 ug/L #	100
15] Tetrachloroethene	11.388	166	66323	4952.79 ug/L #	99
16] Chlorobenzene	12.716	112	196785	4340.87 ug/L #	97
17] 1,1,1,2-Tetrachloroethane	12.867	131	61261	5078.67 ug/L #	100
18] Ethylbenzene	12.923	91	337018	5013.01 ug/L #	99
19] m&p-Xylene	13.121	91	520176	9821.95 ug/L #	100
20] o-Xylene	13.733	91	283230	4944.68 ug/L #	81
21] 1,1,2,2-Tetrachloroethane	14.831	83	124119	4972.35 ug/L #	100
22] 1,3,5-Trimethylbenzene	15.302	105	331097	4921.54 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	334704	4776.47 ug/L #	100
24] Naphthalene	17.882	128	602323	4601.91 ug/L #	100
25) 2-Fluorotoluene SCAN	10.925	109	135786	4698.81 ug/L	99
26) 1,1-Dichloroethene SCAN	3.048	61	39296	6438.10 ug/L	96
27) trans-1,2-Dichloroethe...	4.226	61	30963	4689.18 ug/L	95
28) 1,1-Dichloroethane SCAN	4.969	63	40721	4601.59 ug/L	87
29) cis-1,2-Dichloroethene...	5.997	61	37143	4160.36 ug/L	94
30) Chloroform SCAN	6.562	83	44486	4711.61 ug/L	93
31) 1,1,1-Trichloroethane ...	6.818	97	42382	4804.16 ug/L	96
32) Carbon tetrachloride SCAN	7.097	117	35323	4852.48 ug/L	96
33) Benzene SCAN	7.438	78	113688	5132.76 ug/L	98
34) 1,2-Dichloroethane SCAN	7.487	62	36988	5296.85 ug/L	96
35) Trichloroethene SCAN	8.507	130	28290	5010.90 ug/L	74
36) Toluene-d8 SCAN	10.432	98	117025	4669.04 ug/L	95
37) Toluene SCAN	10.537	91	164909	5083.61 ug/L	93
38) 1,1,2-Trichloroethane ...	11.188	97	37886	4902.65 ug/L	99
39) Tetrachloroethene SCAN	11.387	166	39881	5105.27 ug/L	94
40) Chlorobenzene SCAN	12.715	112	117992	4879.18 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.874	131	33930	4725.13 ug/L	89
42) Ethylbenzene SCAN	12.929	91	205349	4748.73 ug/L	100
43) m&p-Xylene SCAN	13.120	91	315290	4887.28 ug/L	97
44) o-Xylene SCAN	13.739	91	177048	4988.89 ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.829	83	87210	5027.30 ug/L	98
46) 1,3,5-Trimethylbenzene...	15.306	105	191971	4927.56 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.867	105	195580	4847.56 ug/L	100
48) Naphthalene SCAN	17.881	128	318584	4330.89 ug/L	97

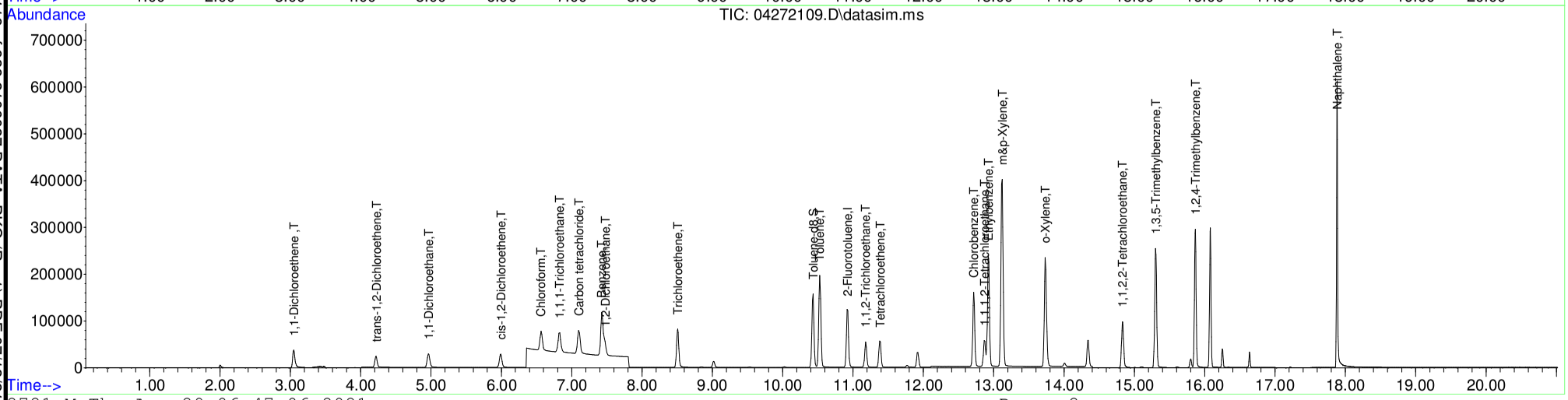
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272109.D
Acq On : 27 Apr 2021 16:17
InstName : AG5975C
Operator : TD
Sample : S21D071-SCV1
Misc : 2106043 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 06:47:05 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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SEQUENCE

S21F068

Sequence Date: 06/28/2021

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B21F073	SEQUENCE #:	S21F068 06/28/21
BATCH #:	B21F073	ANALYSIS:	VOA Passive Air AG5975C

	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 Apr 29 06:45:57 2021			
	Initial Calibration ID (LIMS number):	2104012			
	ICAL within QC criteria?	✔			Chlorobenzene = 27%
	SCV within QC criteria?	✔			
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?	☐	Y	Y	
	CCV(s) within QC criteria?	☐	Y	Y	
	QLS(s) within QC criteria?	☐	Y	Y	
	CB(s) or storage blank(s) within QC criteria?	✔			
	Other instrument checks within QC criteria? Specify if applicable.	✔			
BATCH QCs	Method blanks < 1/2 QL?	☐	Y	Y	
	LCS(s) or SRM(s) within QC criteria?	☐	Y	Y	
	MSs/MSDs and/or DUPs within QC criteria?	✔			
	Other method-specific QCs within QC criteria? Specify if applicable.	✔			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B21F073	SEQUENCE #:	S21F068 06/28/21
BATCH #:	B21F073	ANALYSIS:	VOA Passive Air AG5975C

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☐	Y	Y	
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	✔			
	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.	✔			

APPROVALS	ANALYST INITIALS & DATE:	TD 06/30/21
	REVIEWED BY:	ZIYAD RAJABI (Affiliate) Digitally signed by ZIYAD RAJABI (Affiliate) Date: 2021.07.07 10:41:49 -07'00' SIGN HERE

COMMENTS

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2021\062821\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	06282101.D	1	S21F068-IBL1		28 Jun 2021 9:15
2	06282102.D	1	S21F068-TUN1	BFB 2117016	28 Jun 2021 9:39
3	06282103.D	1	S21F068-CCV1	2106039 5 mg/L	28 Jun 2021 9:49
4	06282104.D	1	S21F068-CRL1	2106042 0.05 mg/L	28 Jun 2021 10:15
5	06282105.D	1	B21F073-BLK1		28 Jun 2021 10:42
6	06282106.D	1	B21F073-BS1		28 Jun 2021 11:09
7	06282107.D	1	B21F073-BSD1		28 Jun 2021 11:35
8	06282108.D	1	B21F073-MRL1		28 Jun 2021 12:02
9	06282109.D	1	2106037-01		28 Jun 2021 12:28
10	06282110.D	1	2106037-02		28 Jun 2021 12:54
11	06282111.D	1	2106037-03		28 Jun 2021 13:21
12	06282112.D	1	2106037-04		28 Jun 2021 13:47
13	06282113.D	1	2106037-05		28 Jun 2021 14:13
14	06282114.D	1	2106037-06		28 Jun 2021 14:40
15	06282115.D	1	2106037-07		28 Jun 2021 15:06
16	06282116.D	1	2106037-08		28 Jun 2021 15:32
17	06282117.D	1	2106037-09		28 Jun 2021 15:59
18	06282118.D	1	2106037-10		28 Jun 2021 16:25
19	06282119.D	1	2106037-11		28 Jun 2021 16:52
20	06282120.D	1	2106037-12		28 Jun 2021 17:18
21	06282121.D	1	2106037-13		28 Jun 2021 17:44
22	06282122.D	1	2106037-14		28 Jun 2021 18:11
23	06282123.D	1	2106037-15		28 Jun 2021 18:37
24	06282124.D	1	2106037-16		28 Jun 2021 19:04
25	06282125.D	1	2106037-17		28 Jun 2021 19:30
26	06282126.D	1	2106037-18		28 Jun 2021 19:56
27	06282127.D	1	2106037-19		28 Jun 2021 20:23
28	06282128.D	1	2106037-20		28 Jun 2021 20:49

GC/MS QA-QC Check Report

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Tune File : C:\msdchem\1\Ravioli Data\2021\062821\06282102.D
Tune Time : 28 Jun 2021 9:39

Daily Calibration File : C:\msdchem\1\Ravioli Data\2021\062821\06282103.D

File	Sample	Surrogate Recovery %	Internal Standard Responses
			164936
06282103.D	S21F068-CC	104	164936
06282104.D	S21F068-CR	1*	157356
06282105.D	B21F073-BL	101	161135
06282106.D	B21F073-BS1	101	142127
06282107.D	B21F073-BSD1	101	142454
06282108.D	B21F073-MRL1	102	152752
06282109.D	2106037-01	101	145158
06282110.D	2106037-02	101	147160
06282111.D	2106037-03	101	162765
06282112.D	2106037-04	101	161232
06282113.D	2106037-05	101	146514
06282114.D	2106037-06	101	146605
06282115.D	2106037-07	101	150278
06282116.D	2106037-08	100	170734
06282117.D	2106037-09	101	158504
06282118.D	2106037-10	101	162438
06282119.D	2106037-11	101	174405
06282120.D	2106037-12	101	150726
06282121.D	2106037-13	101	144449
06282122.D	2106037-14	100	171658
06282123.D	2106037-15	100	159001

```
06282124.D
         2106037-16  100                     168896
--------------------------------------------------------------------------
06282125.D
         2106037-17  101                     151167
--------------------------------------------------------------------------
06282126.D
         2106037-18  101                     152808
--------------------------------------------------------------------------
06282127.D
         2106037-19  101                     151693
--------------------------------------------------------------------------
06282128.D
         2106037-20  101                     163104
--------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

    Created: Tue Jun 29 06:17:08 2021  AG5975C
```

Analysis Sequence

S21F068

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2104012 Printed: 07/02/2021 7:12 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S21F068-IBL1	Instrument Blank	1	6/28/21 9:15			TD	06282101.D	
S21F068-TUN1	BFB	2	6/28/21 9:39	2117016		TD	06282102.D	
S21F068-CCV1	Calibration Check	3	6/28/21 9:49	2106039		TD	06282103.D	
S21F068-CRL1	CRL - high	4	6/28/21 10:15	2106042		TD	06282104.D	
B21F073-BLK1	Blank	5	6/28/21 10:42			TD	06282105.D	
B21F073-BS1	LCS	6	6/28/21 11:09			TD	06282106.D	
B21F073-BSD1	LCS Dup	7	6/28/21 11:35			TD	06282107.D	
B21F073-MRL1	MRL Check	8	6/28/21 12:02			TD	06282108.D	
2106037-01 A	F6-010-3ft-1d	9	6/28/21 12:28			TD	06282109.D	
2106037-02 A	F6-008-3ft-1d	10	6/28/21 12:54			TD	06282110.D	
2106037-03 A	F6-006-3ft-1d	11	6/28/21 13:21			TD	06282111.D	
2106037-04 A	F6-002-3ft-1d	12	6/28/21 13:47			TD	06282112.D	
2106037-05 A	6Sixty-MH1-3ft-1d	13	6/28/21 14:13			TD	06282113.D	
2106037-06 A	6Sixty-MH1-3ft-D-1d	14	6/28/21 14:40			TD	06282114.D	
2106037-07 A	F5-038-2ft-1d	15	6/28/21 15:06			TD	06282115.D	
2106037-08 A	235 Fairchild-SC-5ft-1d	16	6/28/21 15:32			TD	06282116.D	
2106037-09 A	Waverly-MH1-2ft-1d	17	6/28/21 15:59			TD	06282117.D	
2106037-10 A	Waverly-MH2-2ft-1d	18	6/28/21 16:25			TD	06282118.D	
2106037-11 A	Classics-MH1-2ft-1d	19	6/28/21 16:52			TD	06282119.D	
2106037-12 A	Classics-MH2-2ft-1d	20	6/28/21 17:18			TD	06282120.D	
2106037-13 A	6Sixty-MH2-2ft-1d	21	6/28/21 17:44			TD	06282121.D	
2106037-14 A	6Sixty-MH3-2ft-1d	22	6/28/21 18:11			TD	06282122.D	

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Analysis Sequence

S21F068

(Continued)

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2104012 Printed: 07/02/2021 7:12 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
2106037-15 A	F6-002-2ft-1d	23	6/28/21 18:37			TD	06282123.D	
2106037-16 A	G6-014-2.5ft-1d	24	6/28/21 19:04			TD	06282124.D	
2106037-17 A	F7-002-2.5ft-1d	25	6/28/21 19:30			TD	06282125.D	
2106037-18 A	F6-039-2.5ft-1d	26	6/28/21 19:56			TD	06282126.D	
2106037-19 A	F6-037-2.5ft-1d	27	6/28/21 20:23			TD	06282127.D	
2106037-20 A	F6-035-3ft-1d	28	6/28/21 20:49			TD	06282128.D	

Sequence Comments

Reagents

Reagent #	Description

SEQUENCE DATA

S21F068

S21F068-IBL1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282101.D
Acq On : 28 Jun 2021 9:15
InstName : AG5975C
Operator : TD
Sample : S21F068-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 09:36:42 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

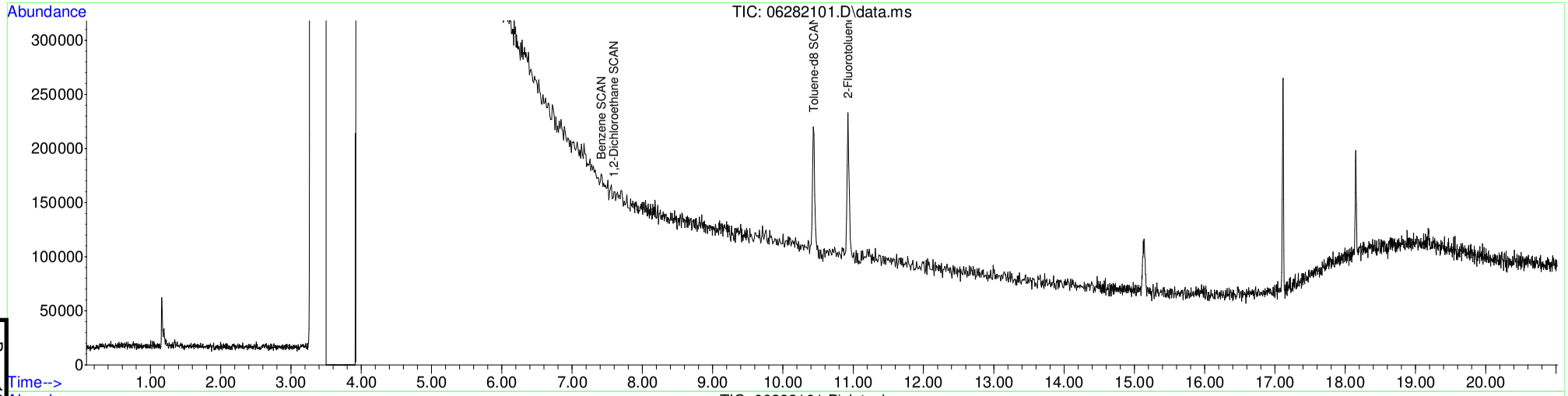
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	193894	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	163935	4935.96	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 98.72%			
Target Compounds						Qvalue
25) 2-Fluorotoluene SCAN	10.926	109	109153	4573.70	ug/L	97
33) Benzene SCAN	7.414	78	3874	211.78	ug/L #	90
34) 1,2-Dichloroethane SCAN	7.597	62	277	48.03	ug/L #	36
36) Toluene-d8 SCAN	10.432	98	96369	4655.70	ug/L	96

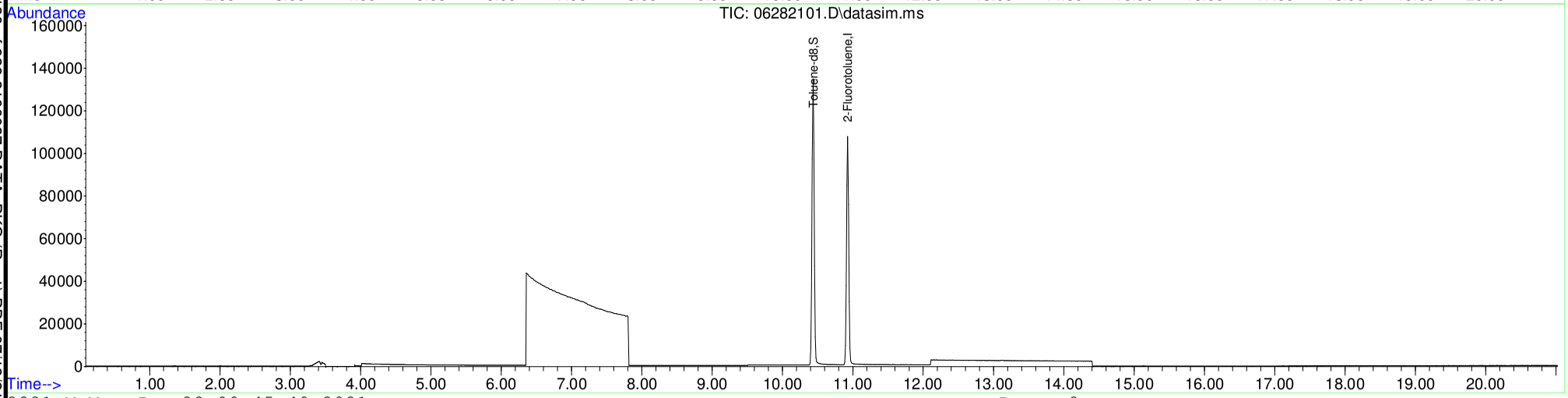
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282101.D
Acq On : 28 Jun 2021 9:15
InstName : AG5975C
Operator : TD
Sample : S21F068-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 09:36:42 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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S21F068-TUN1

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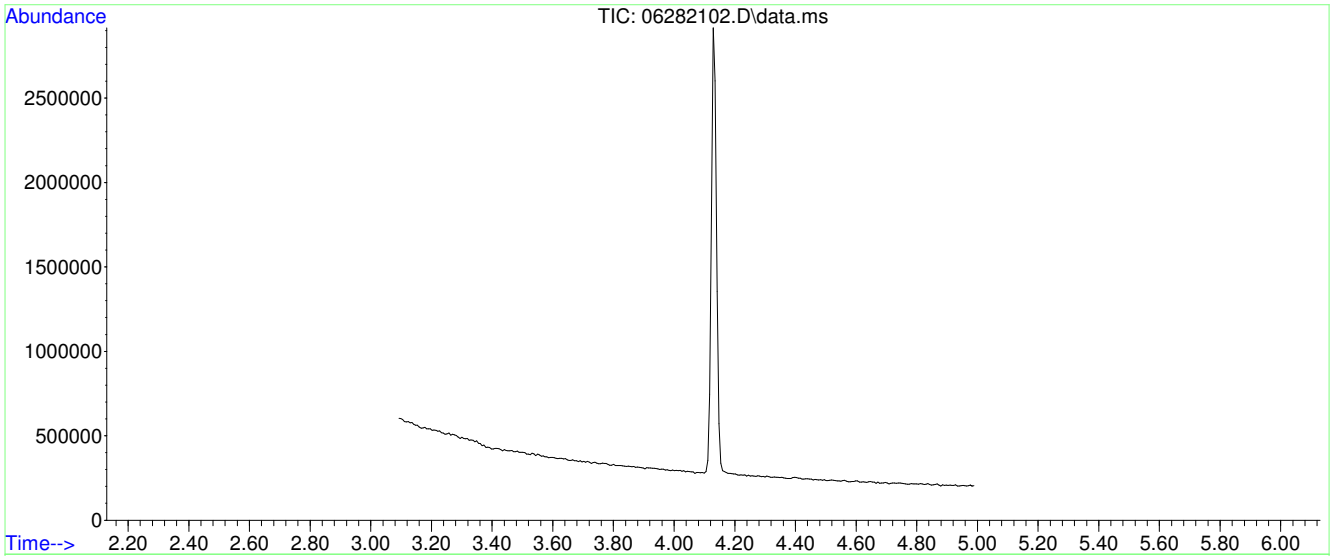
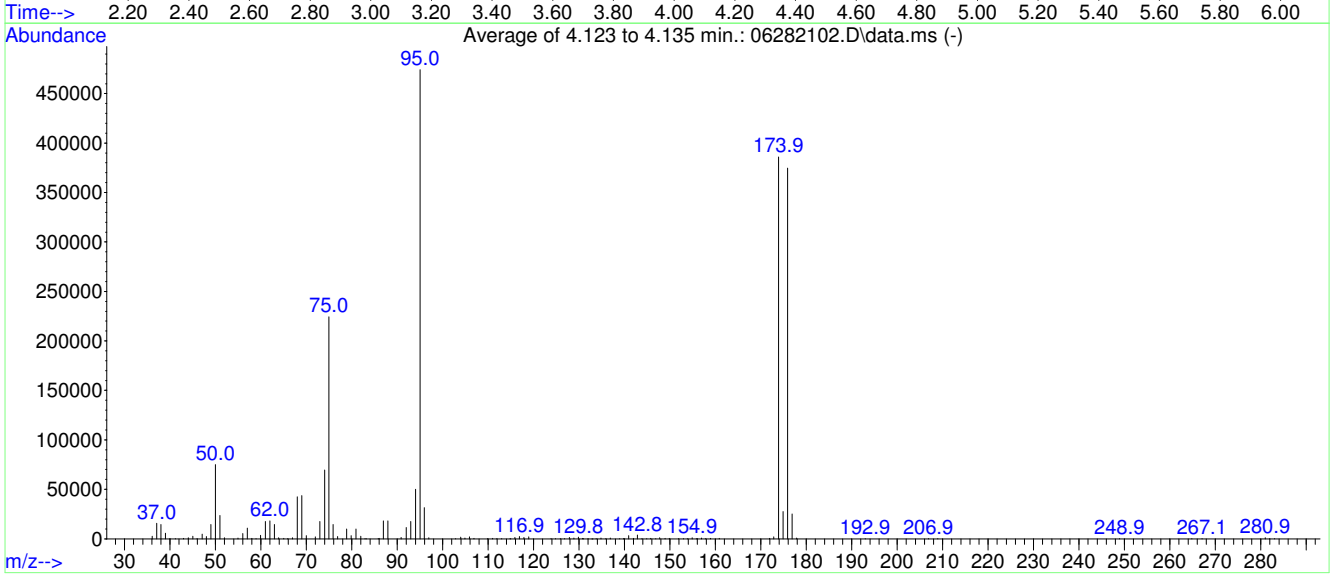
Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282102.D
Acq On : 28 Jun 2021 9:39
Operator : TD
Sample : S21F068-TUN1
Misc : BFB 2117016
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: C45.P

Method : I:\Data\ROOM317\HP5973I\2021\METHOD\RAD062421I.M
Title : Volatile Organic Analysis - Passive Samplers
Last Update : Thu Jul 16 10:38:26 2020





AutoFind: Scans 170, 171, 172; Background Corrected with Scan 164

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	74885	PASS
75	95	30	60	47.3	224358	PASS
95	95	100	100	100.0	474027	PASS
96	95	5	9	6.7	31663	PASS
173	174	0.00	2	0.5	1994	PASS
174	95	50	120	81.4	385835	PASS
175	174	5	9	7.1	27501	PASS
176	174	95	101	97.1	374827	PASS
177	176	5	9	6.7	25025	PASS

Average of 4.123 to 4.135 min.: 06282102.D\data.ms
S21F068-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	2734	48.00	2295	61.00	17446	72.95	17476
37.05	15551	49.00	14475	62.00	18207	74.00	69643
38.00	14500	50.00	74885	63.00	14335	74.95	224358
39.00	5570	51.00	23731	63.90	1198	75.90	14357
40.00	88	52.00	1009	65.00	469	76.90	2351
41.15	281	54.95	904	65.90	229	78.85	10021
42.95	339	56.00	5314	66.95	1106	79.85	3315
44.00	1037	57.00	10966	68.00	42448	80.90	10035
45.00	2628	58.00	414	69.00	43760	81.95	2686
45.95	74	58.90	57	70.00	3195	82.90	98
47.05	4709	59.95	3398	72.00	2000	83.15	116

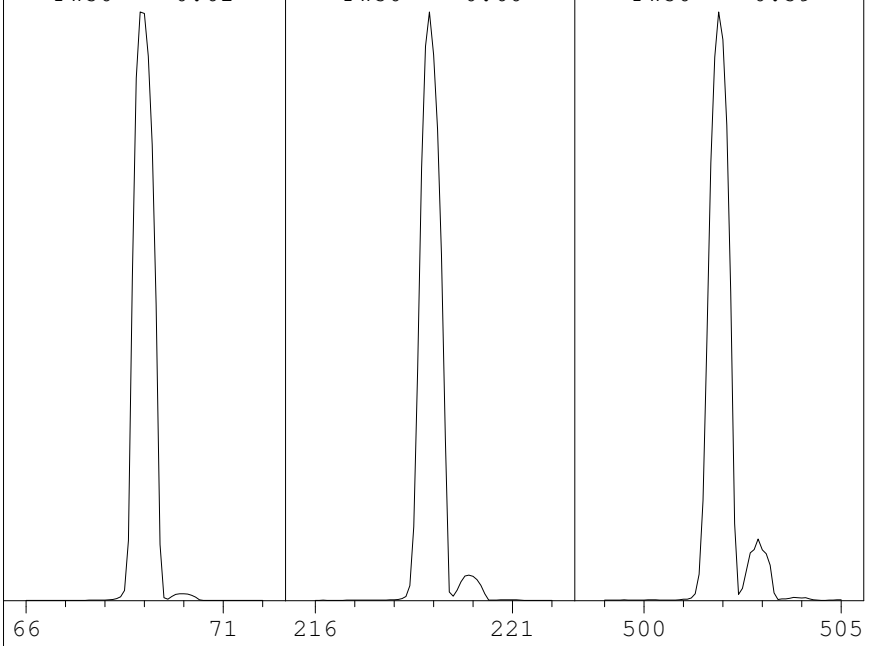
Average of 4.123 to 4.135 min.: 06282102.D\data.ms
S21F068-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.80	116	102.85	148	115.85	1245	130.80	340
86.00	337	103.95	1650	116.90	2311	131.00	183
86.95	18136	104.90	674	117.90	1391	132.00	55
87.95	18031	105.85	1843	118.90	1875	132.85	2
90.85	1427	106.85	440	123.80	95	133.75	192
92.00	11460	109.85	273	124.85	144	134.80	709
93.00	17585	110.95	381	125.85	162	135.90	59
94.00	50085	111.90	250	126.80	124	136.90	660
95.00	474027	112.95	312	127.85	1494	138.90	57
95.95	31663	114.80	91	128.85	677	139.80	54
96.95	1055	114.95	302	129.85	1613	139.95	244

Average of 4.123 to 4.135 min.: 06282102.D\data.ms
S21F068-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
140.90	3310	152.95	305	173.90	385835	280.95	1093
141.95	378	153.85	292	174.90	27501	281.95	239
142.85	3918	154.90	1101	175.90	374827	283.00	304
143.85	268	155.80	131	176.90	25025		
144.90	278	156.10	69	177.90	645		
145.75	510	156.95	753	192.95	255		
146.85	290	157.80	77	206.90	293		
147.75	947	158.90	602	208.95	191		
148.90	328	160.85	502	248.90	92		
149.85	461	171.90	422	264.80	51		
151.90	211	172.85	1994	267.10	52		

Mass	68.90	Mass	218.90	Mass	501.90
Ab	947197	Ab	635450	Ab	29524
Pw50	0.61	Pw50	0.60	Pw50	0.59

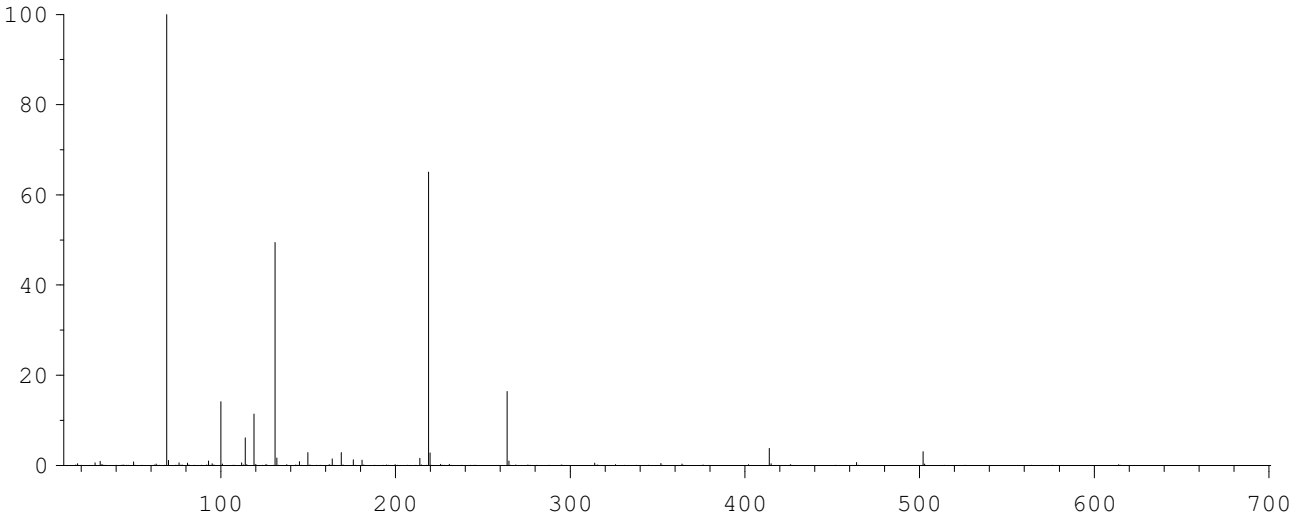


Ion Pol	Pos	MassGain	-1188
		MassOffs	-36
Emission	34.6	AmuGain	973
EIEnrgy	69.9	AmuOffs	123.63
Filament	1	Wid219	0.016
		DC Pol	Pos
Repeller	26.60		
IonFcus	75.0	HEDEnab	On
EntLens	22.0	EMVolts	1400
EntOffs	18.07		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

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
149 peaks Base: 69.00 Abundance: 922880



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	922880	100.00	70.00	10369	1.12
218.90	600192	65.03	219.90	25760	4.29
502.00	28312	3.07	503.00	2961	10.46

Air/Water Check: H20~0.39% N2~0.60% O2~0.27% CO2~0.10% N2/H2O~153.49%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 50738
Repeller Maximum 35 volts using ion 219; Gain Factor 0.51

MassGain Values(Samples): -1179(3) -1173(2) -1152(1) -1113(0) -1026(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	123.6	123.6	123.6	123.6	123.6	123.6	123.6
Entrance Lens Offset:	18.1	18.1	18.1	18.1	18.1	18.1	18.1

S21F068-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282103.D
Acq On : 28 Jun 2021 9:49
InstName : AG5975C
Operator : TD
Sample : S21F068-CCV1
Misc : 2106039 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:10:20 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	2-Fluorotoluene	1.000	1.000	0.0	85	0.00
2	T	1,1-Dichloroethene	0.218	0.227	-4.1	88	0.00
3	T	trans-1,2-Dichloroethene	0.187	0.183	2.1	81	0.00
4	T	1,1-Dichloroethane	0.257	0.271	-5.4	88	0.00
5	T	cis-1,2-Dichloroethene	0.246	0.260	-5.7	87	0.00
6	T	Chloroform	0.290	0.292	-0.7	88	0.00
7	T	1,1,1-Trichloroethane	0.270	0.285	-5.6	89	0.01
8	T	Carbon tetrachloride	0.235	0.246	-4.7	88	0.00
9	T	Benzene	0.814	0.779	4.3	87	0.00
10	T	1,2-Dichloroethane	0.224	0.244	-8.9	92	0.01
11	T	Trichloroethene	0.217	0.222	-2.3	86	0.00
12	S	Toluene-d8	0.856	0.891	-4.1	87	0.00
13	T	Toluene	1.115	1.096	1.7	86	0.00
14	T	1,1,2-Trichloroethane	0.232	0.238	-2.6	86	0.01
15	T	Tetrachloroethene	0.285	0.298	-4.6	86	0.01
16	T	Chlorobenzene	0.965	0.860	10.9	86	0.00
17	T	1,1,1,2-Tetrachloroethane	0.257	0.263	-2.3	85	0.00
18	T	Ethylbenzene	1.432	1.426	0.4	84	0.00
19	T	m&p-Xylene	1.128	1.117	1.0	84	0.00
20	T	o-Xylene	1.220	1.211	0.7	84	0.00
21	T	1,1,2,2-Tetrachloroethane	0.532	0.528	0.8	84	0.00
22	T	1,3,5-Trimethylbenzene	1.433	1.442	-0.6	84	0.00
23	T	1,2,4-Trimethylbenzene	1.492	1.491	0.1	85	0.00
24	T	Naphthalene	2.787	3.256	-16.8	96	0.00
25		2-Fluorotoluene SCAN	0.615	0.557	9.4	77	0.01
26		1,1-Dichloroethene SCAN	0.130	0.144	-10.8	94	0.00
27		trans-1,2-Dichloroethene SC	0.141	0.113	19.9	68	0.00
28		1,1-Dichloroethane SCAN	0.188	0.187	0.5	85	0.00
29		cis-1,2-Dichloroethene SCAN	0.190	0.188	1.1	84	0.00
30		Chloroform SCAN	0.201	0.181	10.0	76	0.01
31		1,1,1-Trichloroethane SCAN	0.188	0.171	9.0	78	0.00
32		Carbon tetrachloride SCAN	0.155	0.145	6.5	80	0.01
33		Benzene SCAN	0.472	0.471	0.2	85	0.00
34		1,2-Dichloroethane SCAN	0.149	0.156	-4.7	89	0.01
35		Trichloroethene SCAN	0.120	0.137	-14.2	97	0.00
36		Toluene-d8 SCAN	0.534	0.525	1.7	84	0.00
37		Toluene SCAN	0.691	0.668	3.3	82	0.00
38		1,1,2-Trichloroethane SCAN	0.165	0.151	8.5	78	0.01
39		Tetrachloroethene SCAN	0.166	0.158	4.8	81	0.00
40		Chlorobenzene SCAN	0.515	0.489	5.0	81	0.00
41		1,1,1,2-Tetrachloroethane S	0.153	0.140	8.5	78	0.00
42		Ethylbenzene SCAN	0.921	0.844	8.4	78	0.00
43		m&p-Xylene SCAN	1.374	1.301	5.3	81	0.00
44		o-Xylene SCAN	0.756	0.701	7.3	79	0.00
45		1,1,2,2-Tetrachloroethane S	0.369	0.326	11.7	75	0.00
46		1,3,5-Trimethylbenzene SCAN	0.830	0.792	4.6	81	0.00
47		1,2,4-Trimethylbenzene SCAN	0.859	0.822	4.3	81	0.00
48		Naphthalene SCAN	1.567	1.620	-3.4	88	0.00

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

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282103.D
Acq On : 28 Jun 2021 9:49
InstName : AG5975C
Operator : TD
Sample : S21F068-CCV1
Misc : 2106039 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:10:20 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

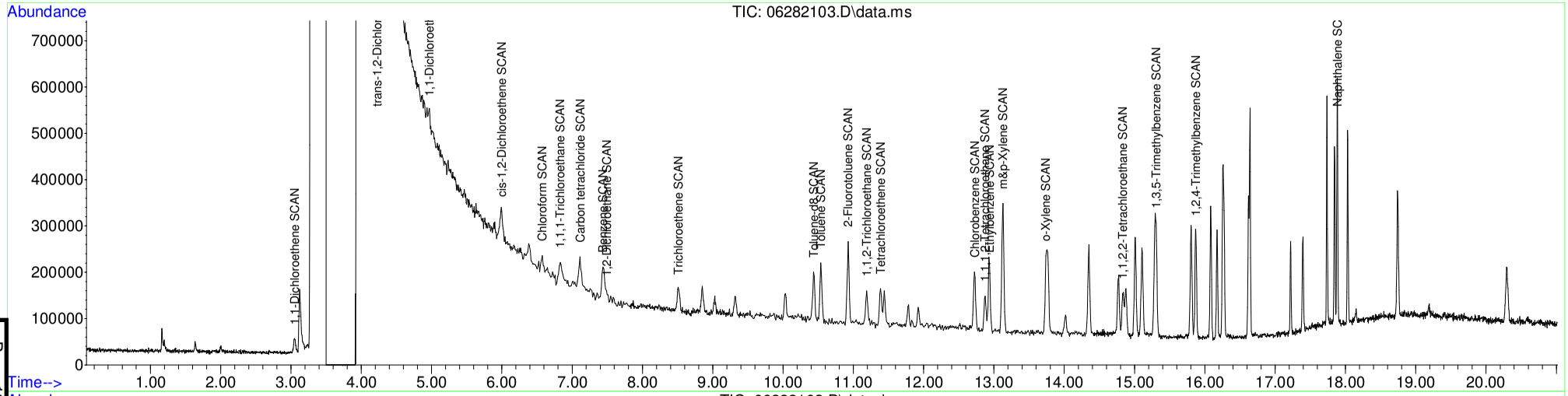
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	164936	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	147017	5203.75 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 104.08%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.049	61	37506	5220.85 ug/L #	97
3] trans-1,2-Dichloroethene	4.214	61	30247	4892.36 ug/L #	100
4] 1,1-Dichloroethane	4.964	63	44680	5269.18 ug/L #	100
5] cis-1,2-Dichloroethene	5.992	61	42908	5281.11 ug/L #	100
6] Chloroform	6.564	83	48090	5029.23 ug/L #	99
7] 1,1,1-Trichloroethane	6.832	97	46994	5281.88 ug/L #	100
8] Carbon tetrachloride	7.099	117	40628	5241.54 ug/L #	100
9] Benzene	7.428	78	128429	4780.46 ug/L #	99
10] 1,2-Dichloroethane	7.476	62	40255	5447.90 ug/L #	100
11] Trichloroethene	8.508	130	36617	5118.71 ug/L	98
13] Toluene	10.528	91	180842	4917.59 ug/L	100
14] 1,1,2-Trichloroethane	11.189	97	39217	5126.21 ug/L #	99
15] Tetrachloroethene	11.389	166	49092	5218.48 ug/L #	100
16] Chlorobenzene	12.724	112	141882	4455.12 ug/L #	98
17] 1,1,1,2-Tetrachloroethane	12.875	131	43324	5112.60 ug/L #	100
18] Ethylbenzene	12.931	91	235119	4978.30 ug/L #	100
19] m&p-Xylene	13.122	91	368521	9905.06 ug/L #	100
20] o-Xylene	13.741	91	199804	4965.36 ug/L #	100
21] 1,1,2,2-Tetrachloroethane	14.835	83	87165	4970.64 ug/L #	100
22] 1,3,5-Trimethylbenzene	15.307	105	237814	5031.89 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	245961	4996.44 ug/L #	99
24] Naphthalene	17.883	128	536972	5839.93 ug/L #	100
25) 2-Fluorotoluene SCAN	10.926	109	91938	4528.72 ug/L	98
26) 1,1-Dichloroethene SCAN	3.048	61	23681	5522.77 ug/L	95
27) trans-1,2-Dichloroethe...	4.226	61	18662	4023.09 ug/L	99
28) 1,1-Dichloroethane SCAN	4.963	63	30910	4972.06 ug/L	88
29) cis-1,2-Dichloroethene...	5.998	61	31055	4951.45 ug/L #	96
30) Chloroform SCAN	6.575	83	29806	4493.63 ug/L	83
31) 1,1,1-Trichloroethane ...	6.830	97	28250	4558.29 ug/L	80
32) Carbon tetrachloride SCAN	7.110	117	23966	4686.51 ug/L	96
33) Benzene SCAN	7.438	78	77647	4990.09 ug/L	99
34) 1,2-Dichloroethane SCAN	7.487	62	25746	5248.24 ug/L	88
35) Trichloroethene SCAN	8.512	130	22649	5710.57 ug/L	88
36) Toluene-d8 SCAN	10.432	98	86602	4918.40 ug/L	99
37) Toluene SCAN	10.537	91	110243	4837.56 ug/L	98
38) 1,1,2-Trichloroethane ...	11.188	97	24980	4601.42 ug/L	91
39) Tetrachloroethene SCAN	11.387	166	26055	4747.78 ug/L	97
40) Chlorobenzene SCAN	12.723	112	80717	4751.24 ug/L	98
41) 1,1,1,2-Tetrachloroeth...	12.874	131	23048	4568.89 ug/L	84
42) Ethylbenzene SCAN	12.938	91	139151	4580.56 ug/L	98
43) m&p-Xylene SCAN	13.128	91	214656	4736.39 ug/L	97
44) o-Xylene SCAN	13.740	91	115605	4637.00 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.830	83	53718	4407.94 ug/L	93
46) 1,3,5-Trimethylbenzene...	15.306	105	130632	4773.02 ug/L	95
47) 1,2,4-Trimethylbenzene...	15.872	105	135501	4780.67 ug/L	96
48) Naphthalene SCAN	17.881	128	267120	5169.00 ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282103.D
Acq On : 28 Jun 2021 9:49
InstName : AG5975C
Operator : TD
Sample : S21F068-CCV1
Misc : 2106039 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:10:20 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration



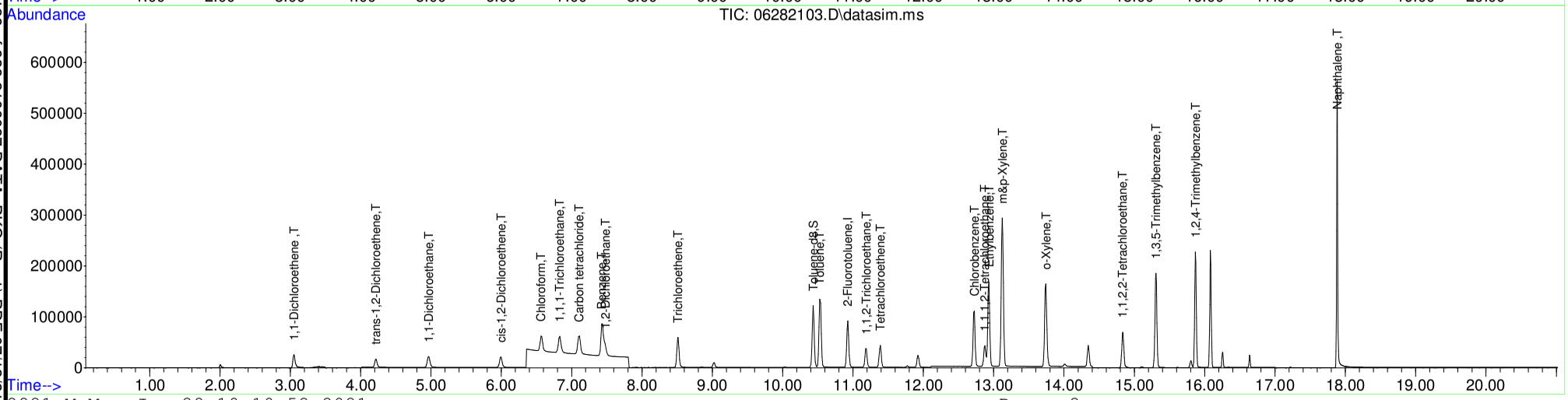


Table of Contents

S21F068-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S21F068-CRL1
Misc Info: 2106042 0.05 mg/L
Date Acquired: 6/28/21 10:15
QLast Update: Thu Apr 29 06:45:57 2021
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.927	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.049	50.0	50.19	100%	60	140	pass
3)	trans-1,2-Dichloroethene	4.214	50.0	49.17	98%	60	140	pass
4)	1,1-Dichloroethane	4.964	50.0	52.29	105%	60	140	pass
5)	cis-1,2-Dichloroethene	5.992	50.0	51.60	103%	60	140	pass
6)	Chloroform	6.564	50.0	61.06	122%	60	140	pass
11)	Trichloroethene	8.508	50.0	48.94	98%	60	140	pass
12)	Toluene-d8	10.433	50.0	51.94	104%	60	140	pass
13)	Toluene	10.528	50.0	57.89	116%	60	140	pass
14)	1,1,2-Trichloroethane	11.179	50.0	52.75	105%	60	140	pass
15)	Tetrachloroethene	11.378	50.0	52.03	104%	60	140	pass
16)	Chlorobenzene	12.716	50.0	76.19	152%	60	140	FAIL
17)	1,1,1,2-Tetrachloroethane	12.867	50.0	48.98	98%	60	140	pass
18)	Ethylbenzene	12.923	50.0	51.93	104%	60	140	pass
19)	m&p-Xylene	13.121	100.0	105.48	105%	60	140	pass
20)	o-Xylene	13.733	50.0	52.57	105%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.831	50.0	50.63	101%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.302	50.0	55.02	110%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.863	50.0	59.21	118%	60	140	pass
24)	Naphthalene	17.882	50.0	91.11	182%	60	140	FAIL

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282104.D
Acq On : 28 Jun 2021 10:15
InstName : AG5975C
Operator : TD
Sample : S21F068-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 10:37:04 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

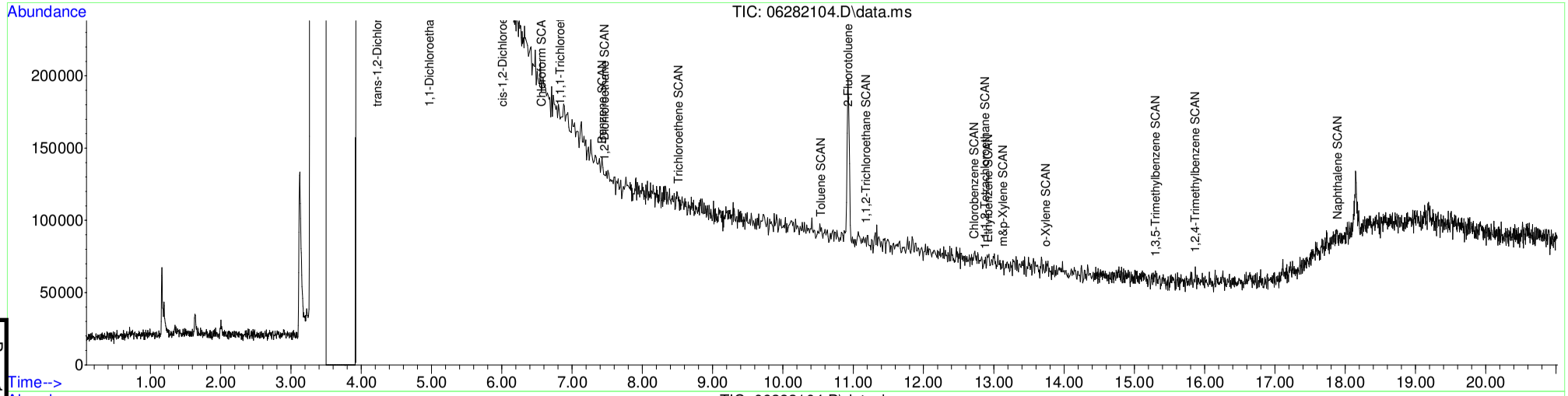
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	157356	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	1400	51.94 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.04%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	344	50.19 ug/L #	96
3] trans-1,2-Dichloroethene	4.214	61	290	49.17 ug/L #	94
4] 1,1-Dichloroethane	4.970	63	423	52.29 ug/L #	65
5] cis-1,2-Dichloroethene	5.992	61	400	51.60 ug/L #	87
6] Chloroform	6.564	83	557	61.06 ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	444	52.31 ug/L #	92
8] Carbon tetrachloride	7.099	117	376	50.85 ug/L #	94
9] Benzene	7.427	78	2473	96.49 ug/L #	55
10] 1,2-Dichloroethane	7.476	62	399	56.60 ug/L #	43
11] Trichloroethene	8.514	130	334	48.94 ug/L #	78
13] Toluene	10.528	91	2031	57.89 ug/L	97
14] 1,1,2-Trichloroethane	11.189	97	385	52.75 ug/L #	84
15] Tetrachloroethene	11.388	166	467	52.03 ug/L #	95
16] Chlorobenzene	12.724	112	2315	76.19 ug/L #	81
17] 1,1,1,2-Tetrachloroethane	12.875	131	396	48.98 ug/L #	82
18] Ethylbenzene	12.931	91	2340	51.93 ug/L #	91
19] m&p-Xylene	13.121	91	3744	105.48 ug/L #	96
20] o-Xylene	13.741	91	2018	52.57 ug/L #	94
21] 1,1,2,2-Tetrachloroethane	14.835	83	847	50.63 ug/L #	96
22] 1,3,5-Trimethylbenzene	15.307	105	2481	55.02 ug/L #	98
23] 1,2,4-Trimethylbenzene	15.868	105	2781	59.21 ug/L #	100
24] Naphthalene	17.882	128	7992	91.11 ug/L #	100
25) 2-Fluorotoluene SCAN	10.925	109	88784	4584.03 ug/L	96
27) trans-1,2-Dichloroethe...	4.233	61	217	49.03 ug/L #	38
28) 1,1-Dichloroethane SCAN	4.962	63	299	50.41 ug/L #	1
29) cis-1,2-Dichloroethene...	6.004	61	193	32.25 ug/L #	1
30) Chloroform SCAN	6.563	83	962	152.02 ug/L #	37
31) 1,1,1-Trichloroethane ...	6.830	97	466	78.81 ug/L	74
33) Benzene SCAN	7.426	78	5055	340.52 ug/L	95
34) 1,2-Dichloroethane SCAN	7.463	62	639	136.53 ug/L #	1
35) Trichloroethene SCAN	8.507	130	263	69.51 ug/L #	19
37) Toluene SCAN	10.537	91	1419	65.27 ug/L #	95
38) 1,1,2-Trichloroethane ...	11.177	97	395	76.27 ug/L #	28
40) Chlorobenzene SCAN	12.723	112	1846	113.90 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.874	131	204	42.39 ug/L #	38
42) Ethylbenzene SCAN	12.922	91	1787	61.66 ug/L #	74
43) m&p-Xylene SCAN	13.128	91	2362	54.63 ug/L	85
44) o-Xylene SCAN	13.740	91	1591	66.89 ug/L #	59
46) 1,3,5-Trimethylbenzene...	15.301	105	1384	53.00 ug/L #	46
47) 1,2,4-Trimethylbenzene...	15.867	105	1845	68.23 ug/L #	58
48) Naphthalene SCAN	17.885	128	3642	73.87 ug/L	92

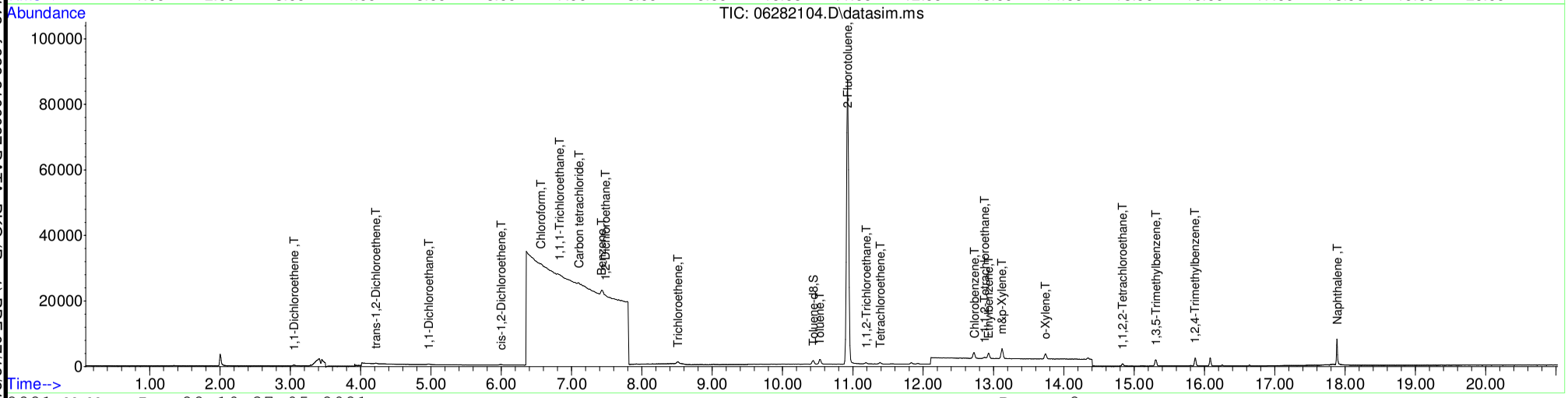
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282104.D
Acq On : 28 Jun 2021 10:15
InstName : AG5975C
Operator : TD
Sample : S21F068-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 10:37:04 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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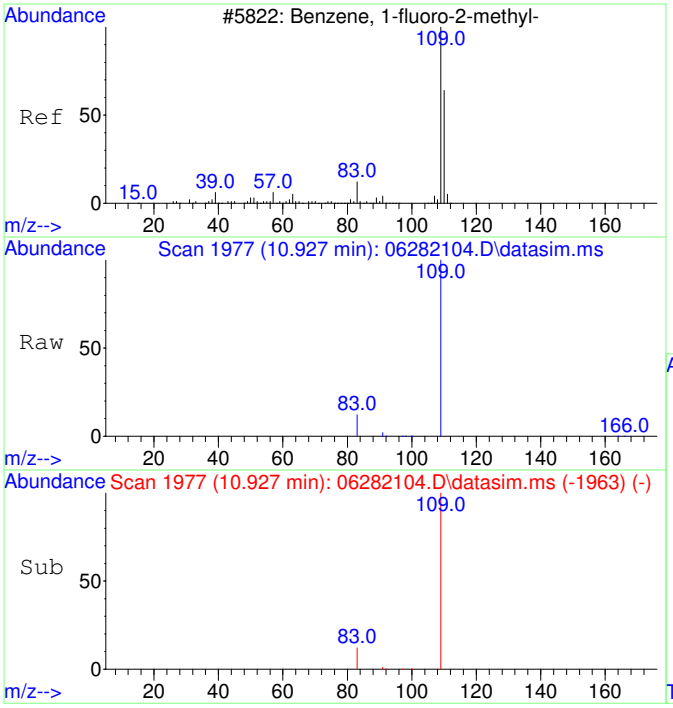
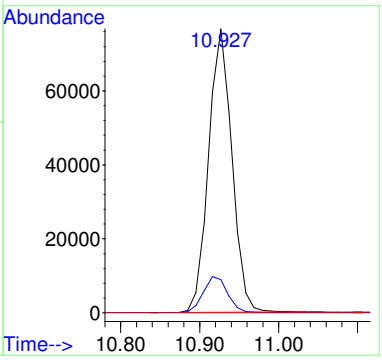
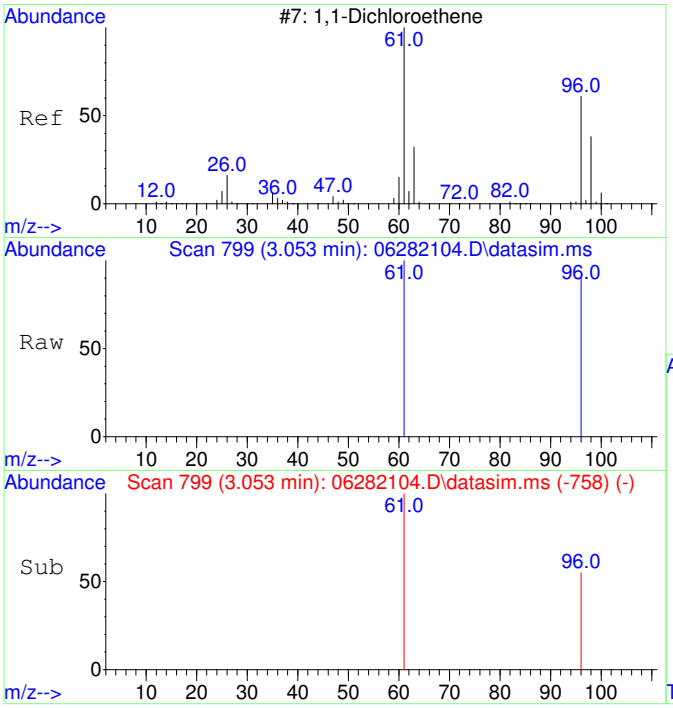


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:109 Resp: 157356

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

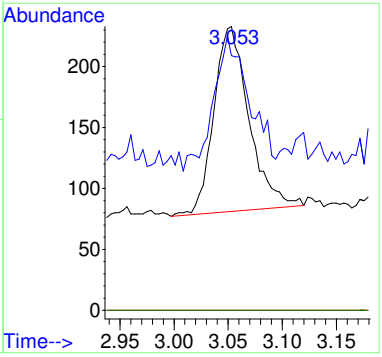


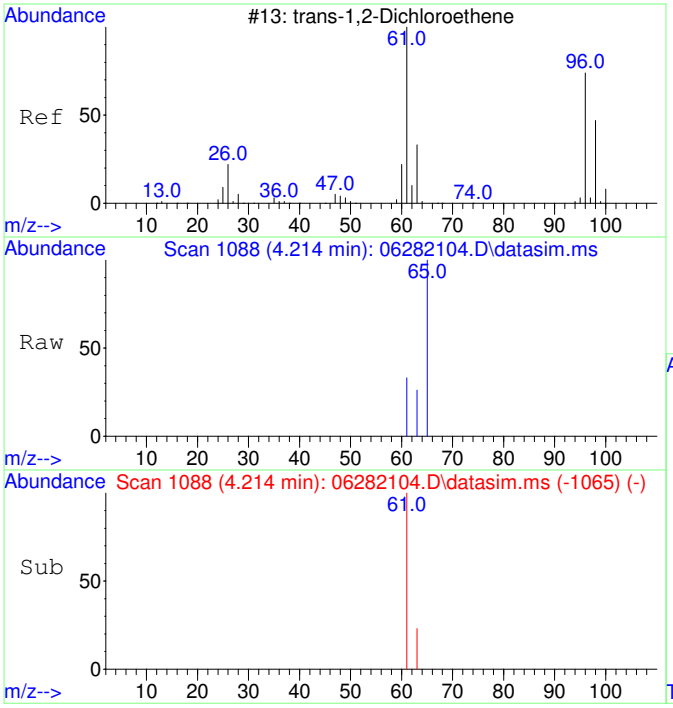


#2
1,1-Dichloroethene
Concen: 50.19 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 61 Resp: 344

Ion	Ratio	Lower	Upper
61	100		
96	67.7	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

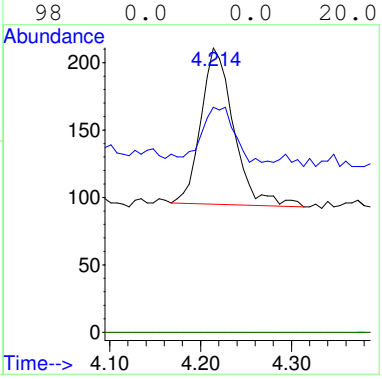


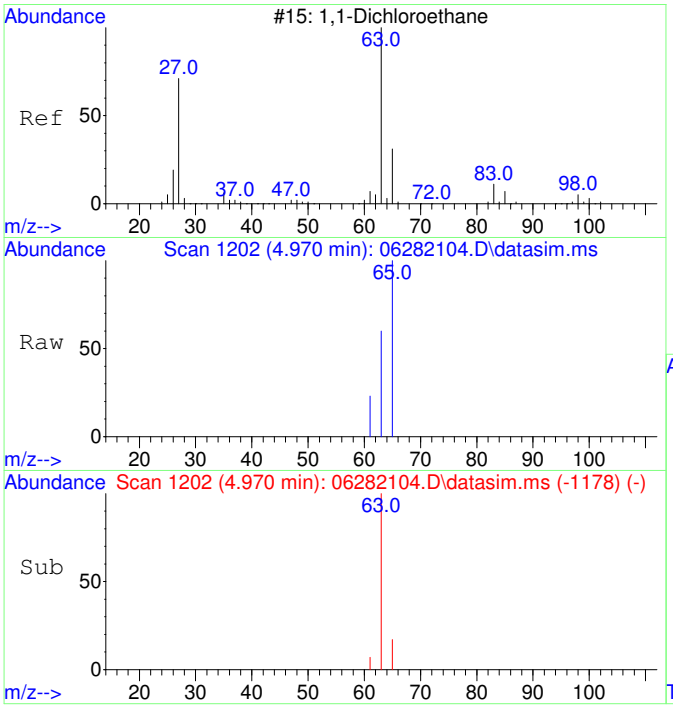


#3
trans-1,2-Dichloroethene
Concen: 49.17 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 61 Resp: 290

Ion	Ratio	Lower	Upper
61	100		
63	35.9	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

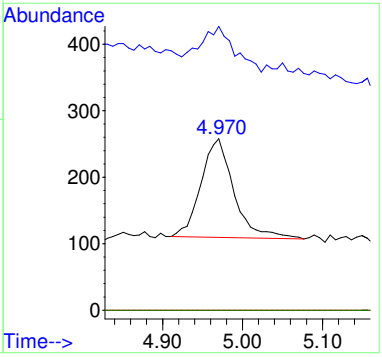


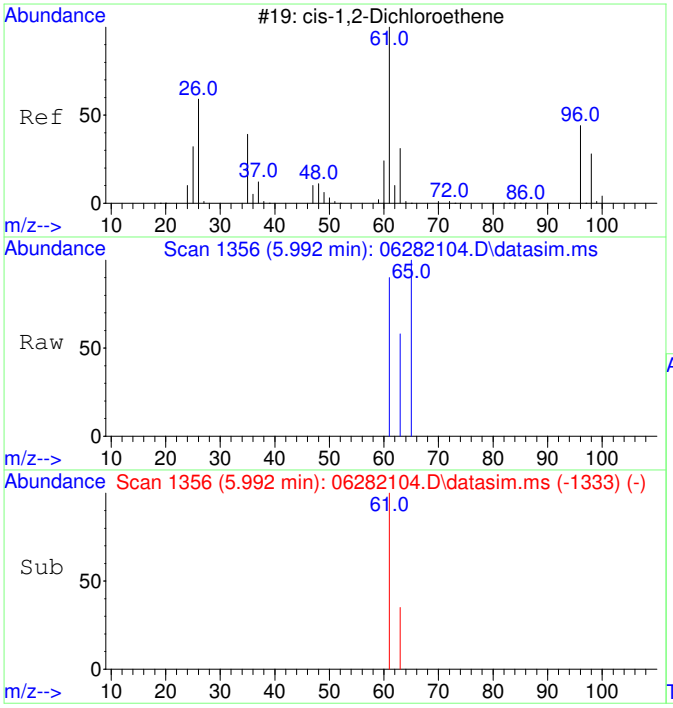


#4
1,1-Dichloroethane
Concen: 52.29 ug/L
RT: 4.970 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 63 Resp: 423

Ion	Ratio	Lower	Upper
63	100		
65	50.4	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

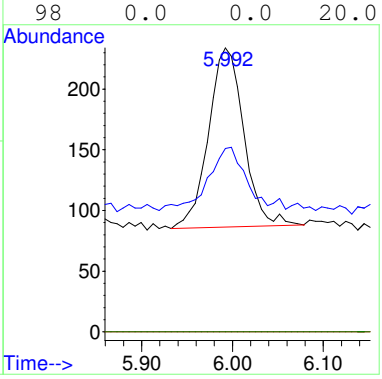


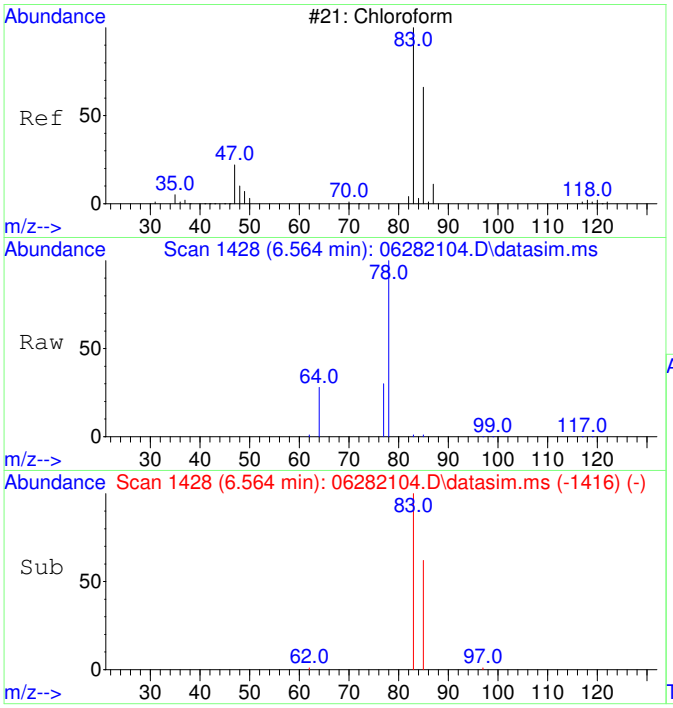


#5
cis-1,2-Dichloroethene
Concen: 51.60 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 61 Resp: 400

Ion	Ratio	Lower	Upper
61	100		
63	40.0	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

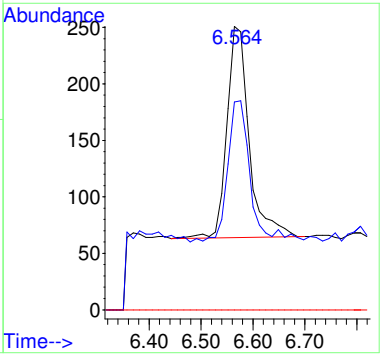


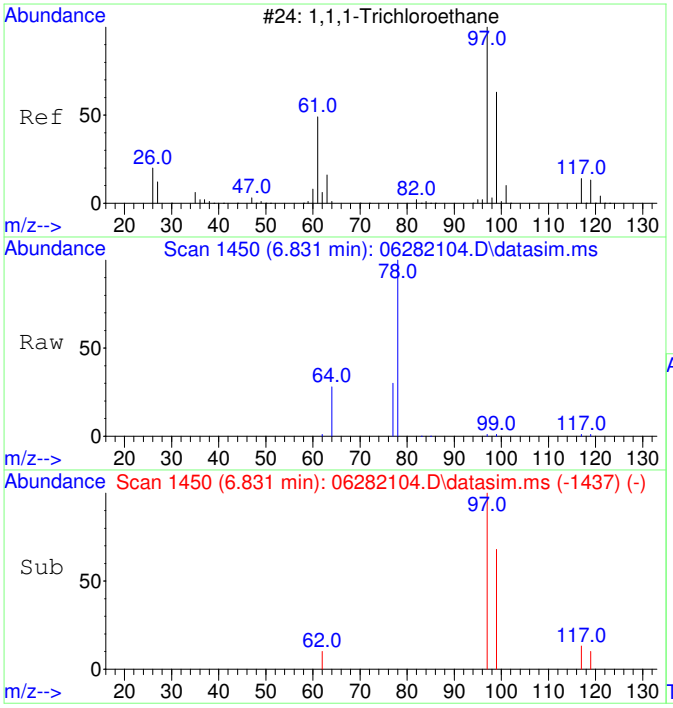


#6
Chloroform
Concen: 61.06 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 83 Resp: 557

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.5	94.5
87	0.0	0.0	20.0

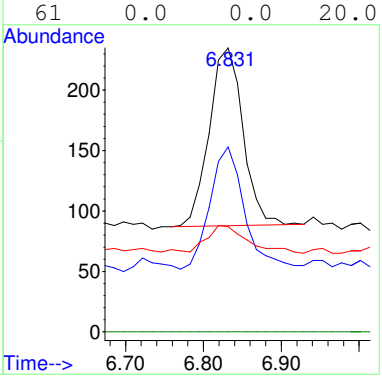


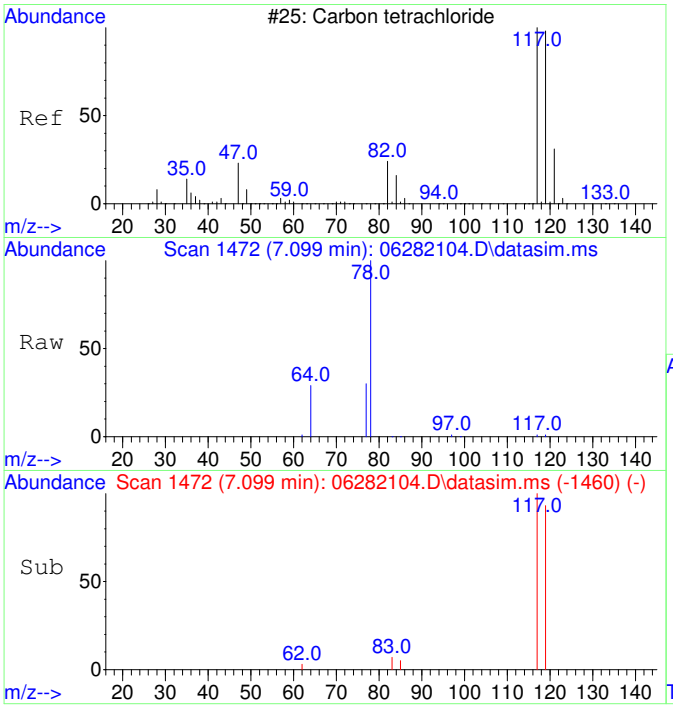


#7
1,1,1-Trichloroethane
Concen: 52.31 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 97 Resp: 444

Ion	Ratio	Lower	Upper
97	100		
99	69.6	34.4	94.4
117	19.6	0.0	42.8
61	0.0	0.0	20.0

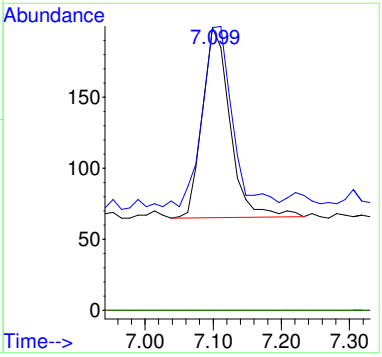


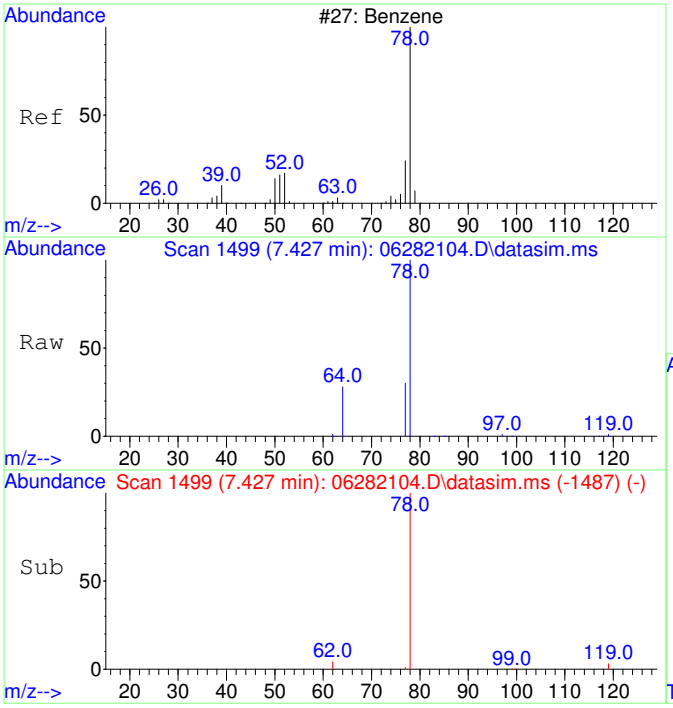


#8
Carbon tetrachloride
Concen: 50.85 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:117 Resp: 376

Ion	Ratio	Lower	Upper
117	100		
119	102.4	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

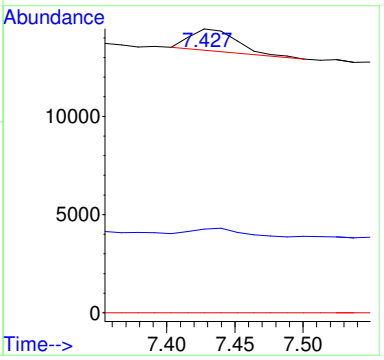


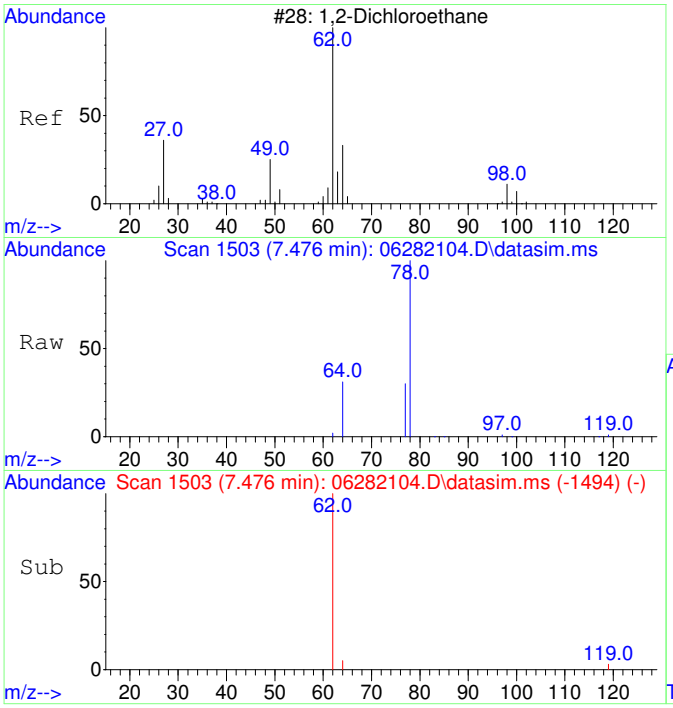


#9
Benzene
Concen: 96.49 ug/L
RT: 7.427 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 78 Resp: 2473

Ion	Ratio	Lower	Upper
78	100		
77	45.7	0.0	53.7
52	0.0	0.0	20.0

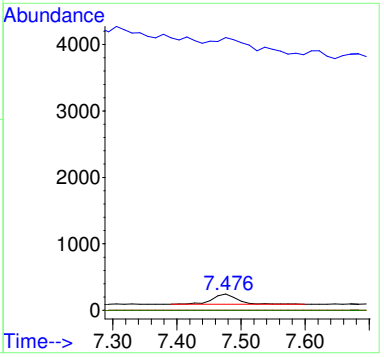


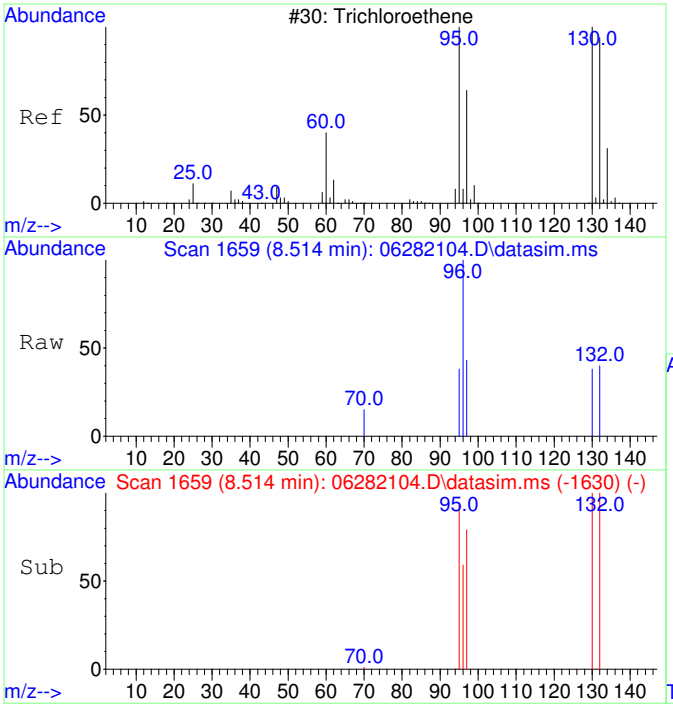


#10
1,2-Dichloroethane
Concen: 56.60 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 62 Resp: 399

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

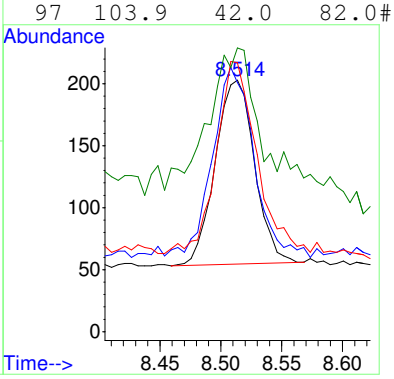


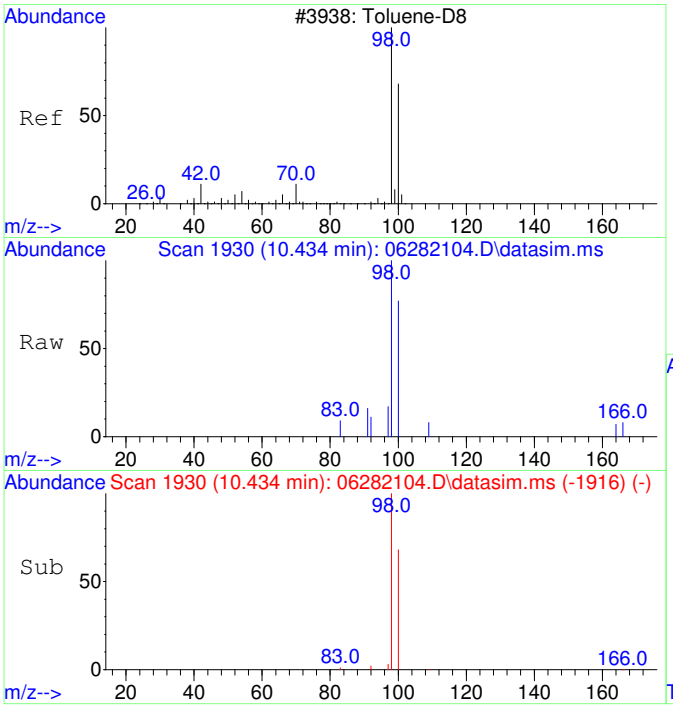


#11
Trichloroethene
Concen: 48.94 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:130 Resp: 334

Ion	Ratio	Lower	Upper
130	100		
95	108.1	65.8	125.8
132	106.0	75.8	115.8
97	103.9	42.0	82.0#

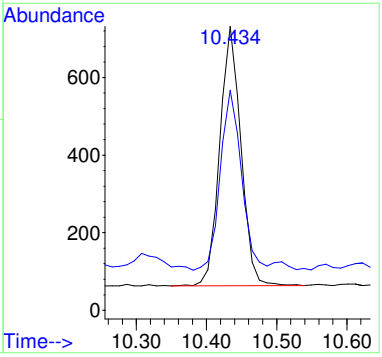


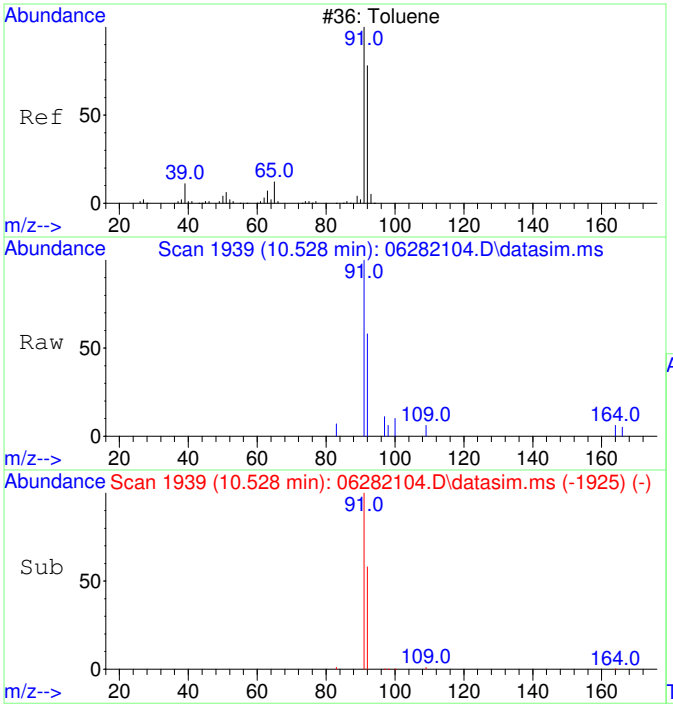


#12
Toluene-d8
Concen: 51.94 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 98 Resp: 1400

Ion	Ratio	Lower	Upper
98	100		
100	69.6	37.3	97.3

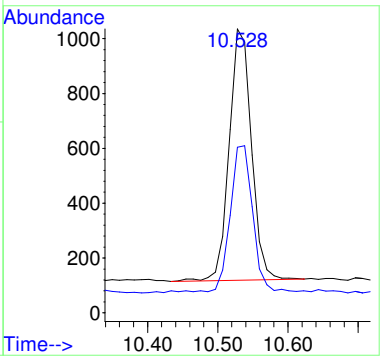


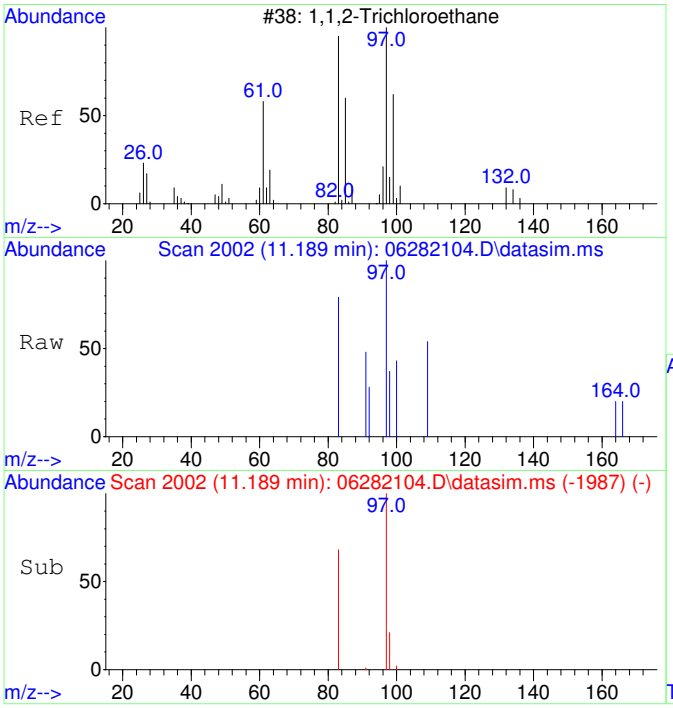


#13
Toluene
Concen: 57.89 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 2031

Ion	Ratio	Lower	Upper
91	100		
92	57.6	30.2	90.2

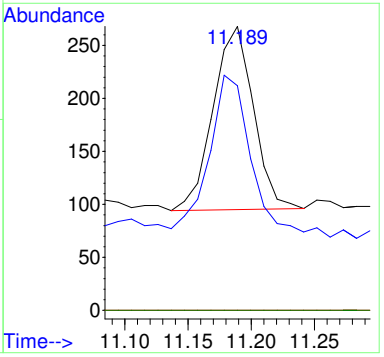


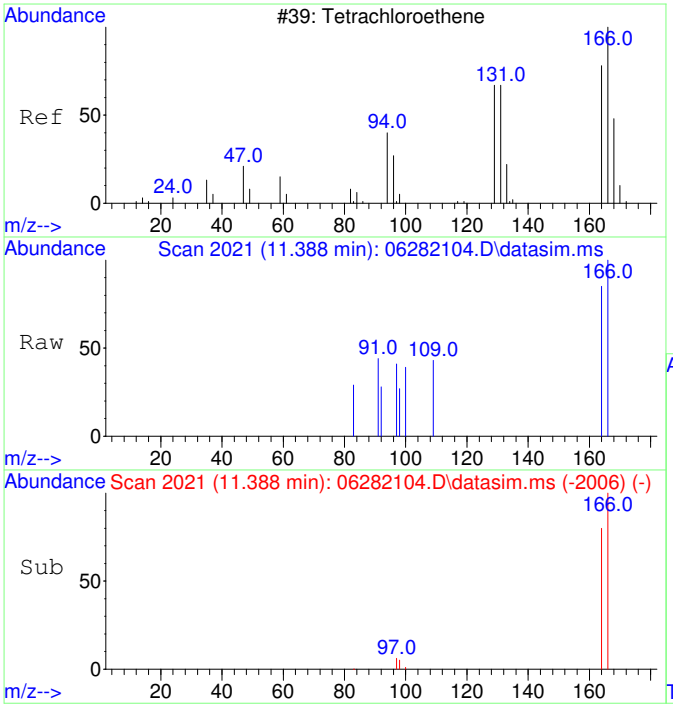


#14
1,1,2-Trichloroethane
Concen: 52.75 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 97 Resp: 385

Ion	Ratio	Lower	Upper
97	100		
83	97.4	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

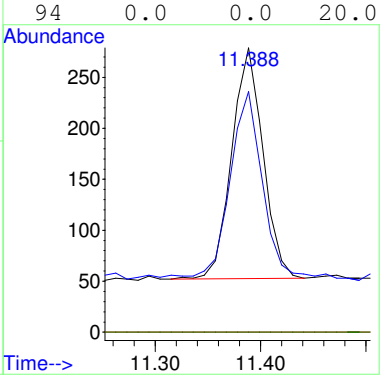


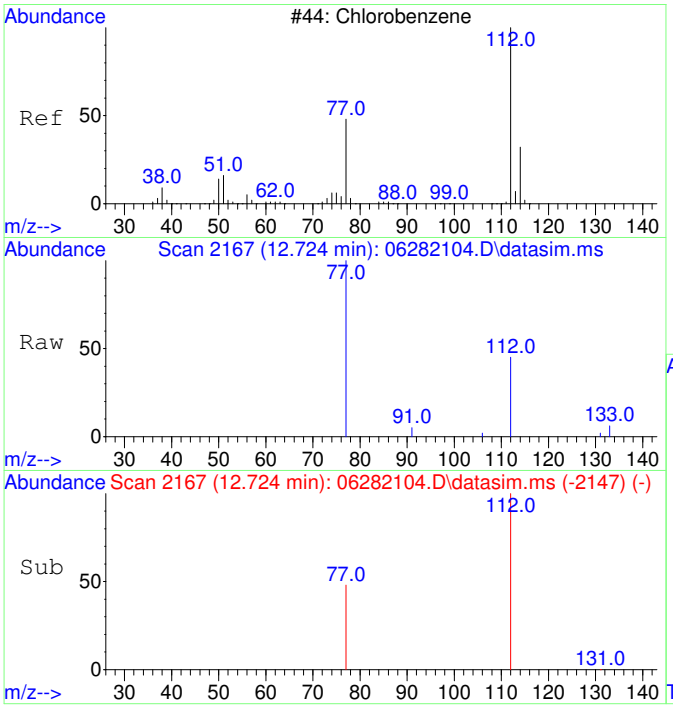


#15
Tetrachloroethene
Concen: 52.03 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:166 Resp: 467

Ion	Ratio	Lower	Upper
166	100		
164	82.7	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

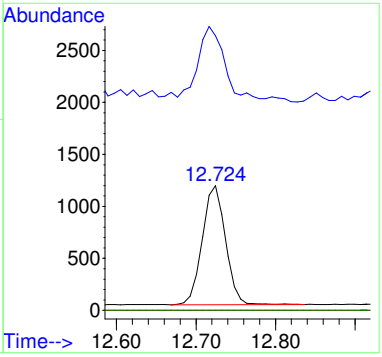


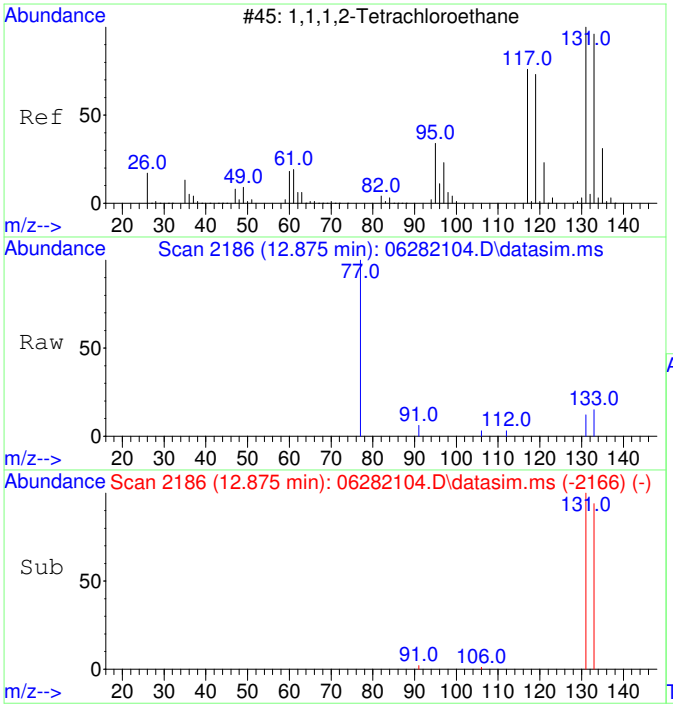


#16
Chlorobenzene
Concen: 76.19 ug/L
RT: 12.724 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:112 Resp: 2315

Ion	Ratio	Lower	Upper
112	100		
77	70.8	27.0	87.0
114	0.0	0.0	20.0
51	0.0	0.0	20.0

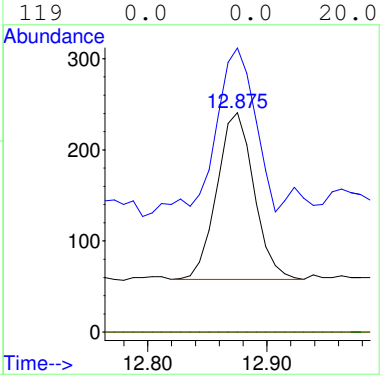


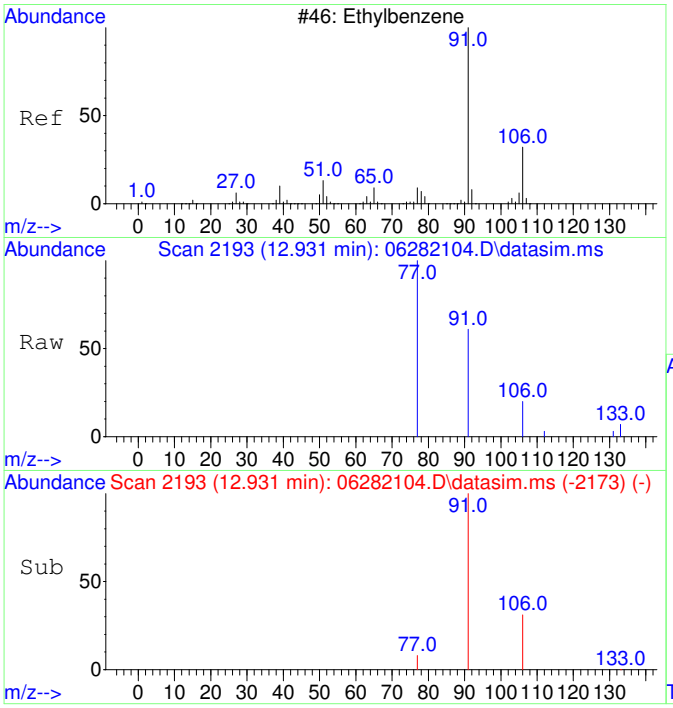


#17
1,1,1,2-Tetrachloroethane
Concen: 48.98 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:131 Resp: 396

Ion	Ratio	Lower	Upper
131	100		
133	112.6	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

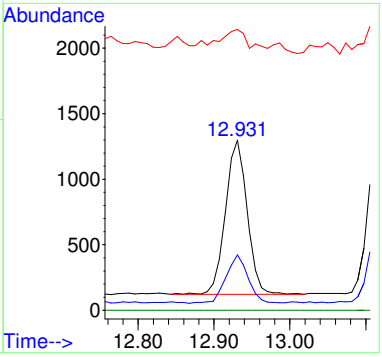


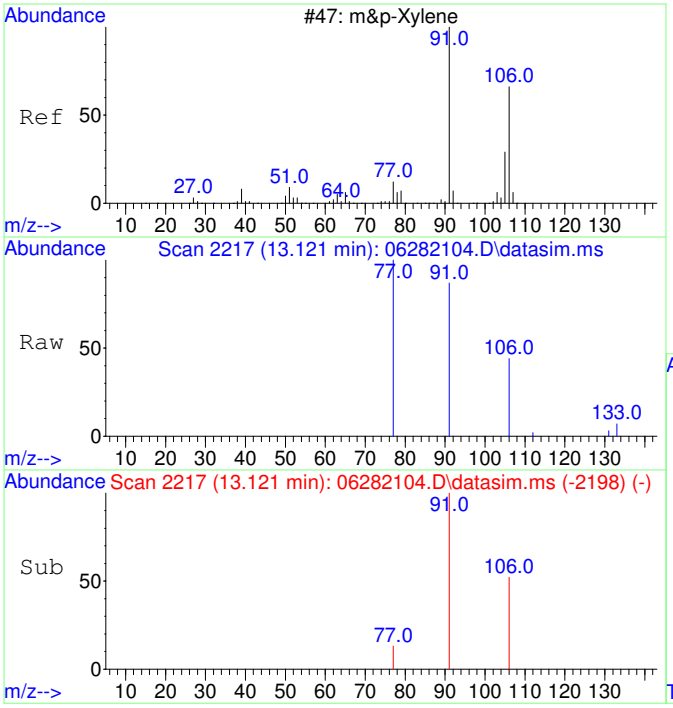


#18
Ethylbenzene
Concen: 51.93 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 2340

Ion	Ratio	Lower	Upper
91	100		
106	31.4	2.8	62.8
77	19.8	0.0	38.2
105	0.0	0.0	20.0

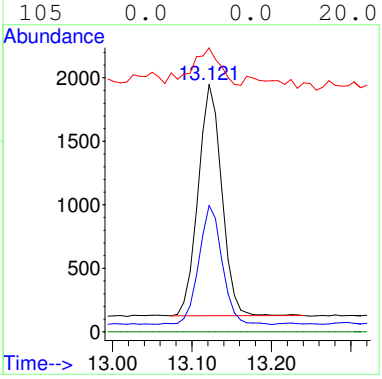


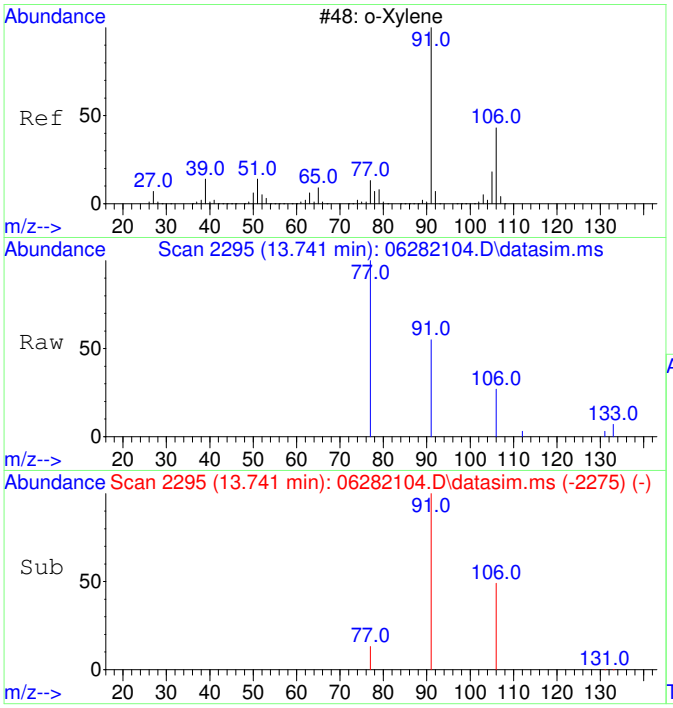


#19
m&p-Xylene
Concen: 105.48 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 3744

Ion	Ratio	Lower	Upper
91	100		
106	50.8	21.4	81.4
77	19.9	0.0	42.7
105	0.0	0.0	20.0

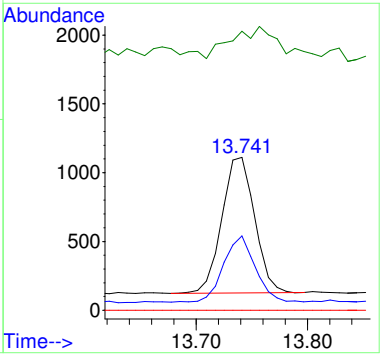


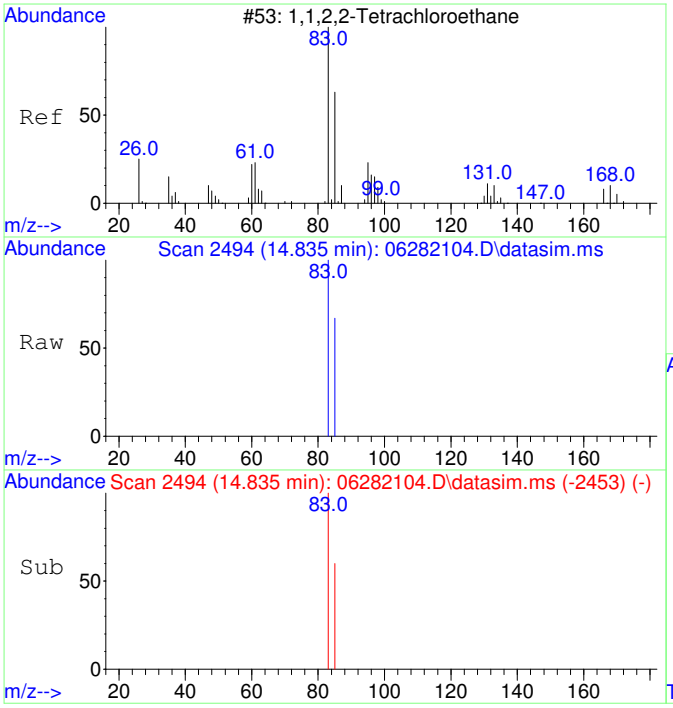


#20
o-Xylene
Concen: 52.57 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 2018

Ion	Ratio	Lower	Upper
91	100		
106	46.8	18.7	78.7
105	0.0	0.0	30.0
77	33.9	7.3	47.3

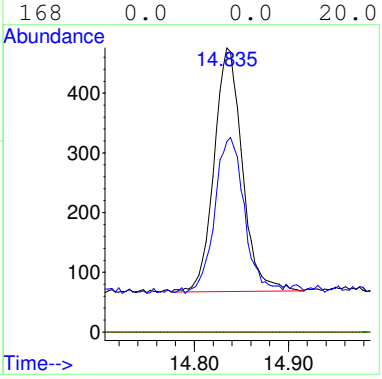


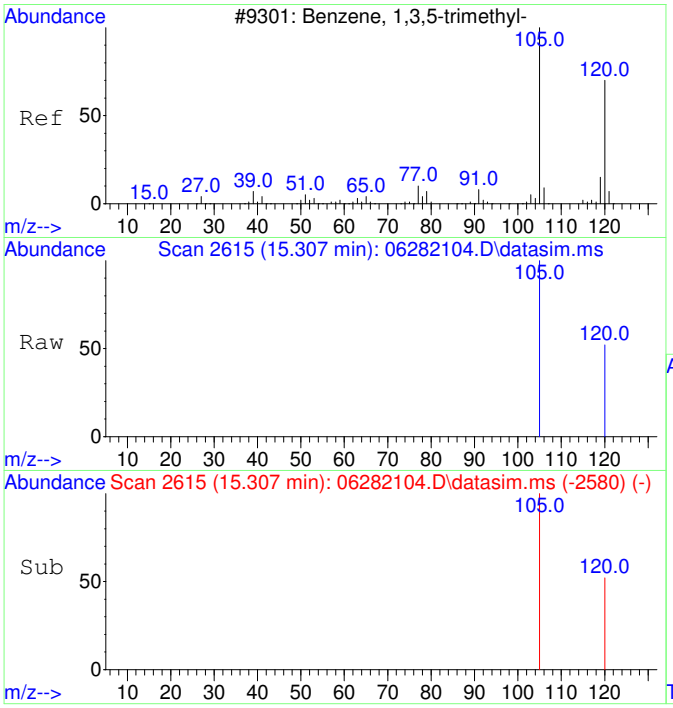


#21
1,1,2,2-Tetrachloroethane
Concen: 50.63 ug/L
RT: 14.835 min Scan# 2494
Delta R.T. 0.004 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 83 Resp: 847

Ion	Ratio	Lower	Upper
83	100		
85	67.4	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

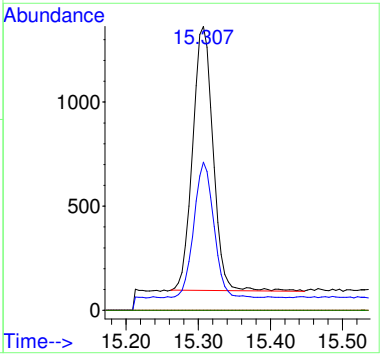


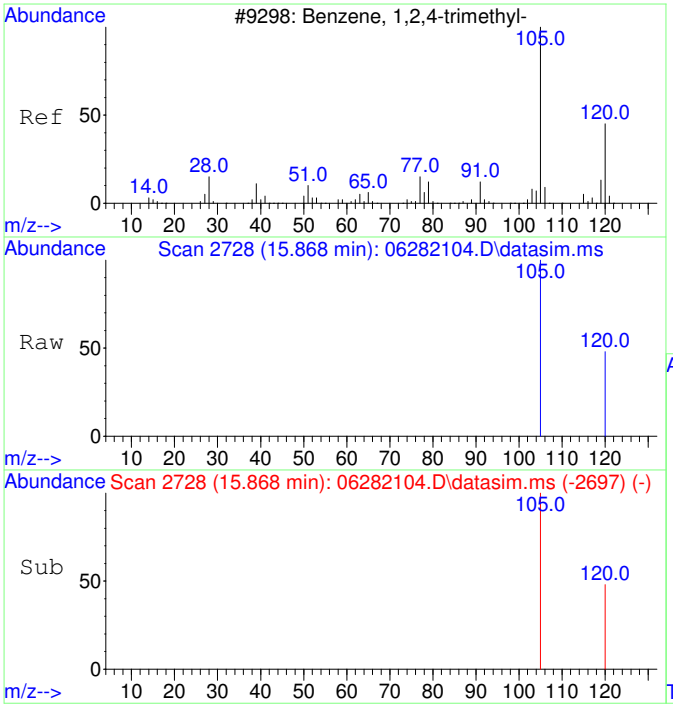


#22
1,3,5-Trimethylbenzene
Concen: 55.02 ug/L
RT: 15.307 min Scan# 2615
Delta R.T. 0.005 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:105 Resp: 2481

Ion	Ratio	Lower	Upper
105	100		
120	49.4	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

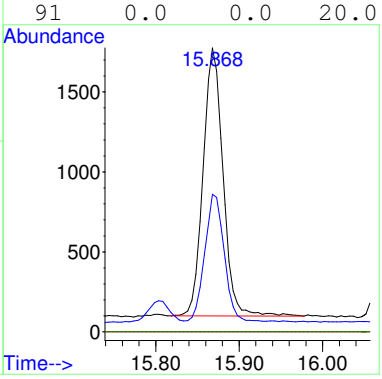


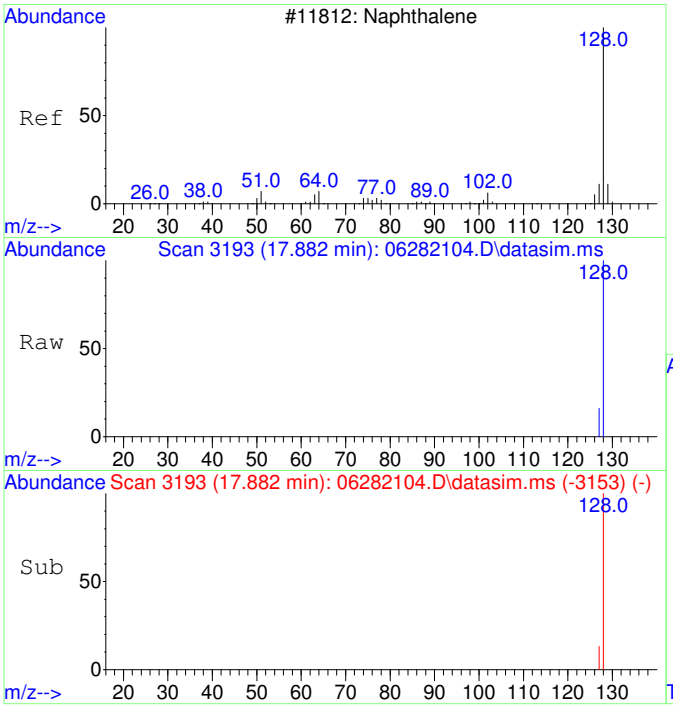


#23
1,2,4-Trimethylbenzene
Concen: 59.21 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:105 Resp: 2781

Ion	Ratio	Lower	Upper
105	100		
120	46.2	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

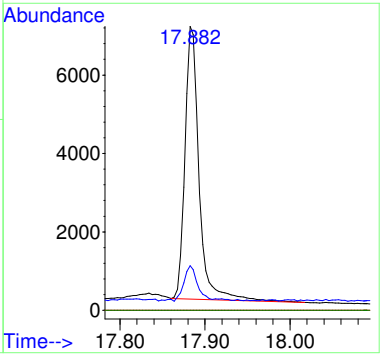


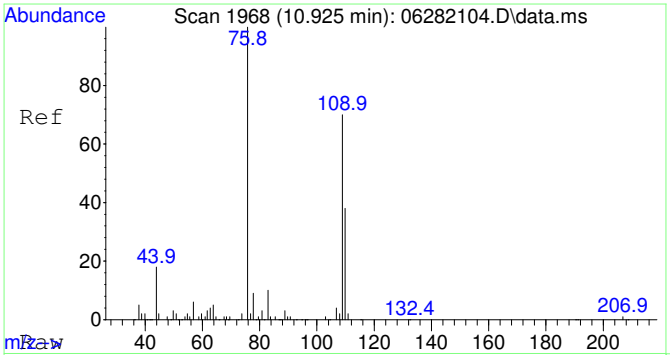


#24
Naphthalene
Concen: 91.11 ug/L
RT: 17.882 min Scan# 3193
Delta R.T. -0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:128 Resp: 7992

Ion	Ratio	Lower	Upper
128	100		
127	12.4	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

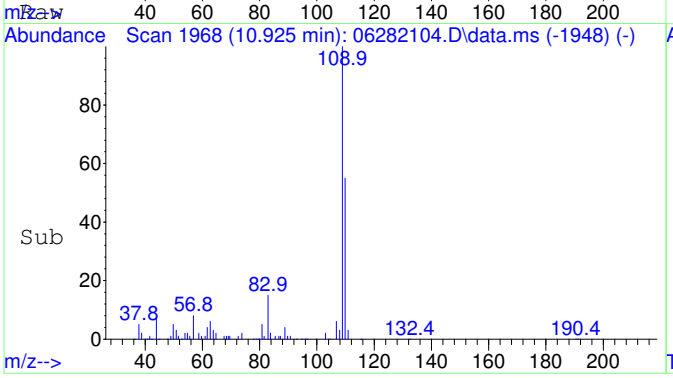


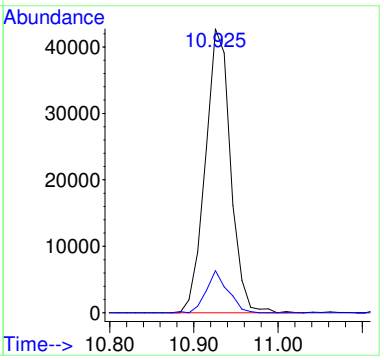


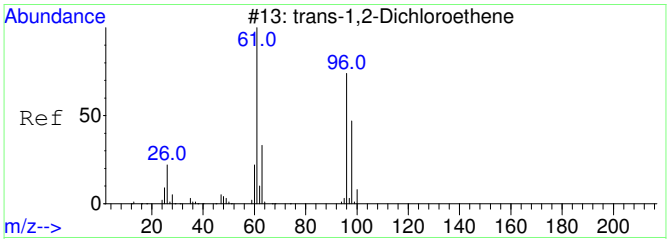
#25
2-Fluorotoluene SCAN
Concen: 4584.03 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:109 Resp: 88784

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.5



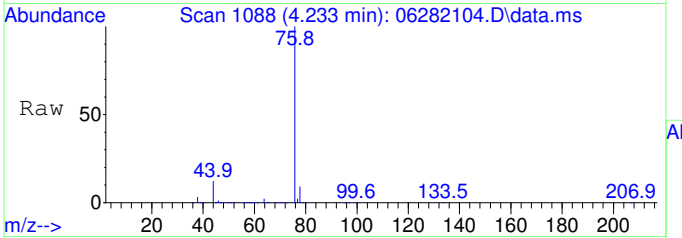


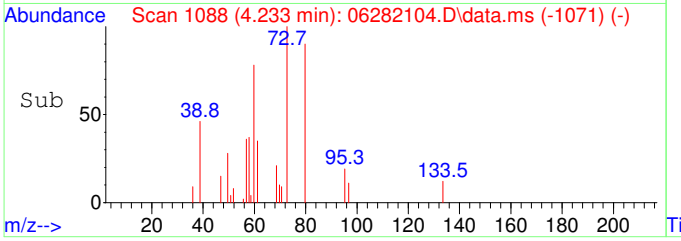


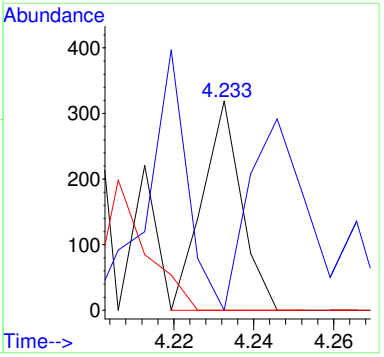
#27
trans-1,2-Dichloroethene SCAN
Concen: 49.03 ug/L
RT: 4.233 min Scan# 1088
Delta R.T. 0.013 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

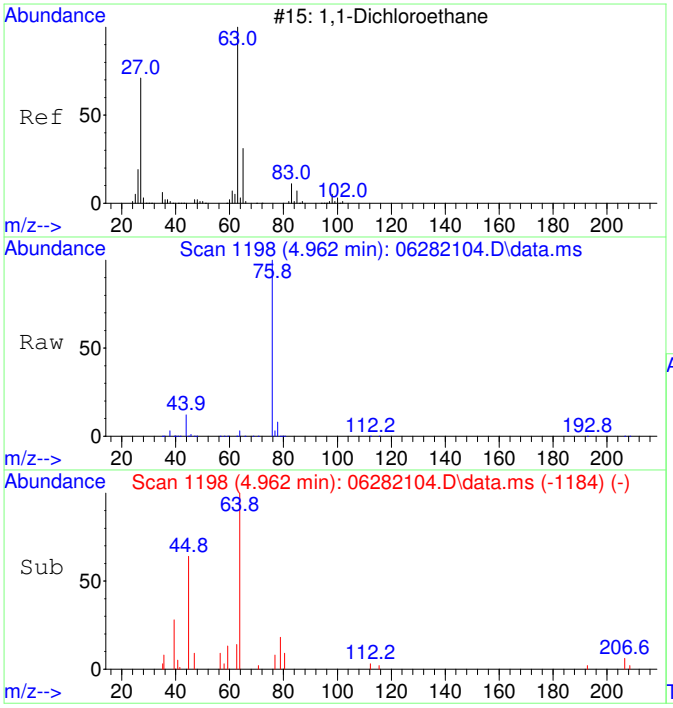
Tgt Ion: 61 Resp: 217

Ion	Ratio	Lower	Upper
61	100		
96	126.3	49.3	109.3#
98	0.0	24.0	84.0#





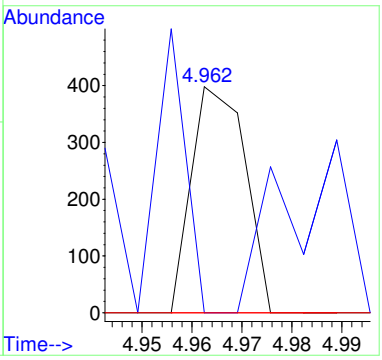


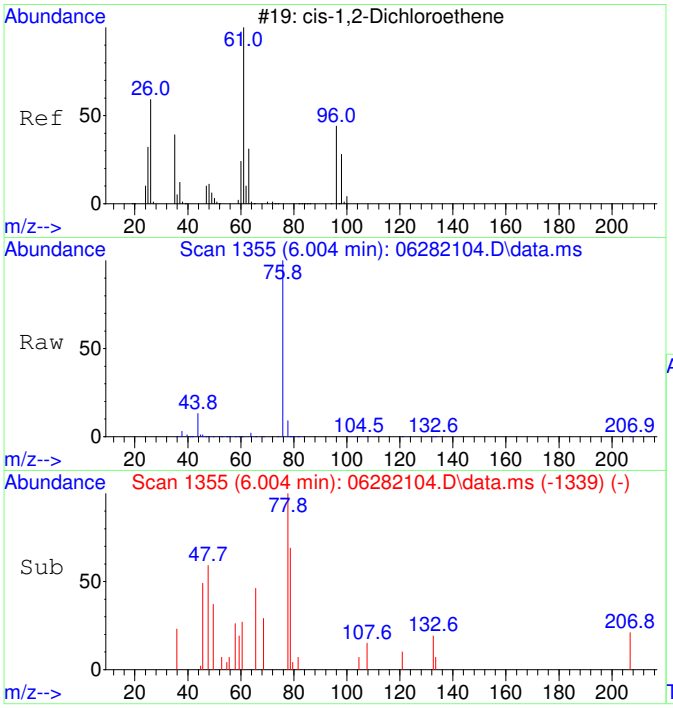


#28
1,1-Dichloroethane SCAN
Concen: 50.41 ug/L
RT: 4.962 min Scan# 1198
Delta R.T. -0.007 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 63 Resp: 299

Ion	Ratio	Lower	Upper
63	100		
65	105.4	0.0	57.3#
83	0.0	0.0	46.2

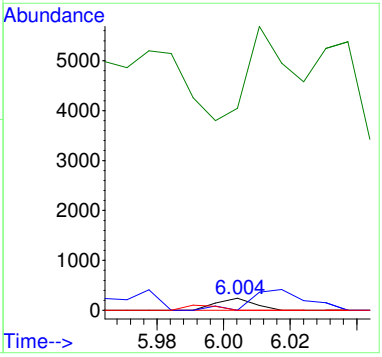


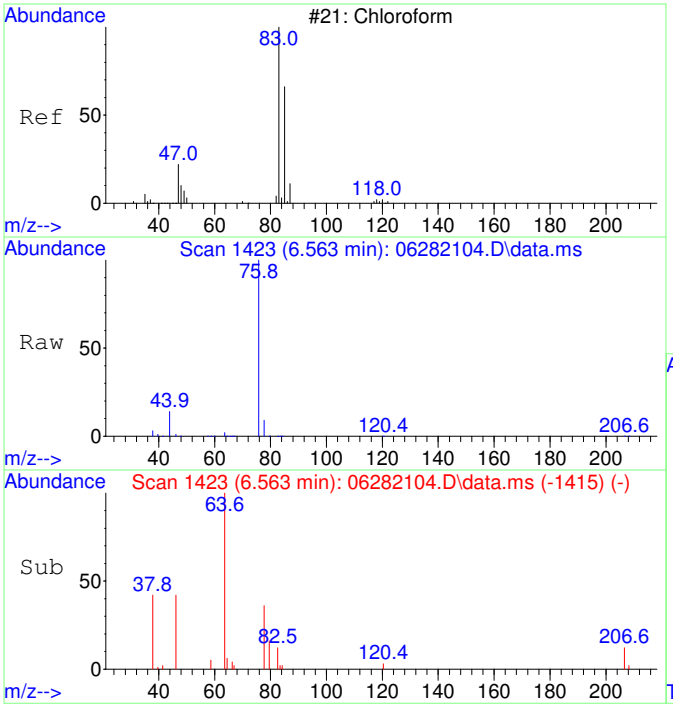


#29
cis-1,2-Dichloroethene SCAN
Concen: 32.25 ug/L
RT: 6.004 min Scan# 1355
Delta R.T. 0.007 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 61 Resp: 193

Ion	Ratio	Lower	Upper
61	100		
96	250.3	36.9	96.9#
98	0.0	12.1	72.1#
64	1656.0	0.0	32.6#

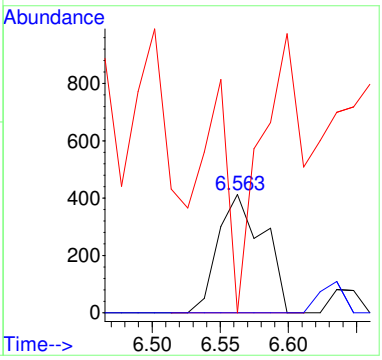


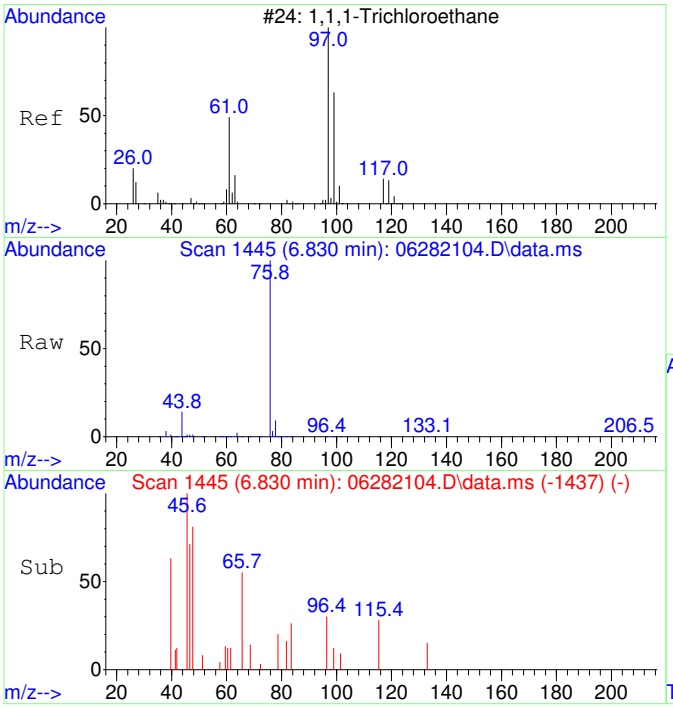


#30
Chloroform SCAN
Concen: 152.02 ug/L
RT: 6.563 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 83 Resp: 962

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	62.7	7.5	67.5

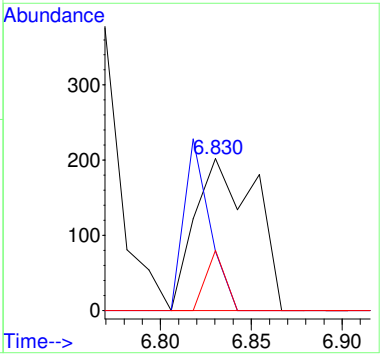


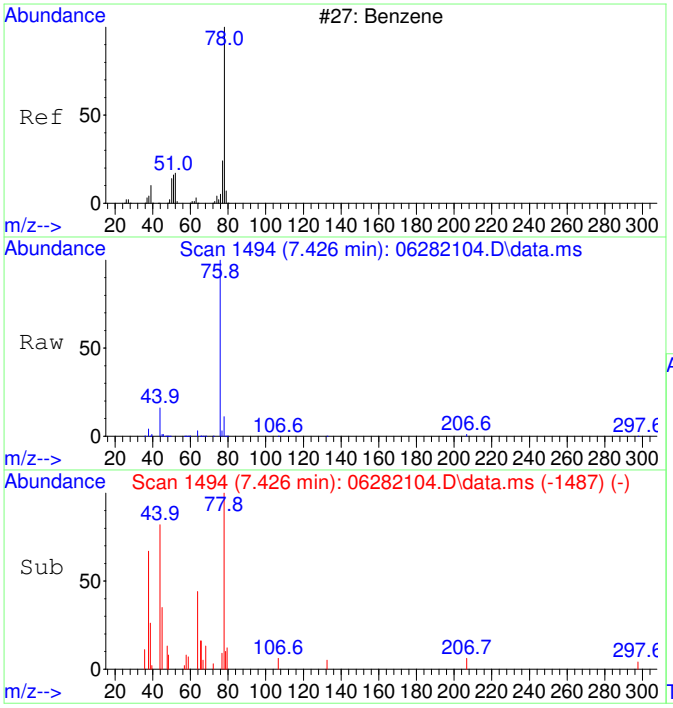


#31
1,1,1-Trichloroethane SCAN
Concen: 78.81 ug/L
RT: 6.830 min Scan# 1445
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 97 Resp: 466

Ion	Ratio	Lower	Upper
97	100		
99	48.1	26.5	86.5
61	12.4	11.4	71.4

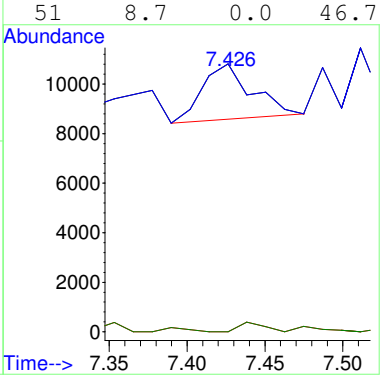


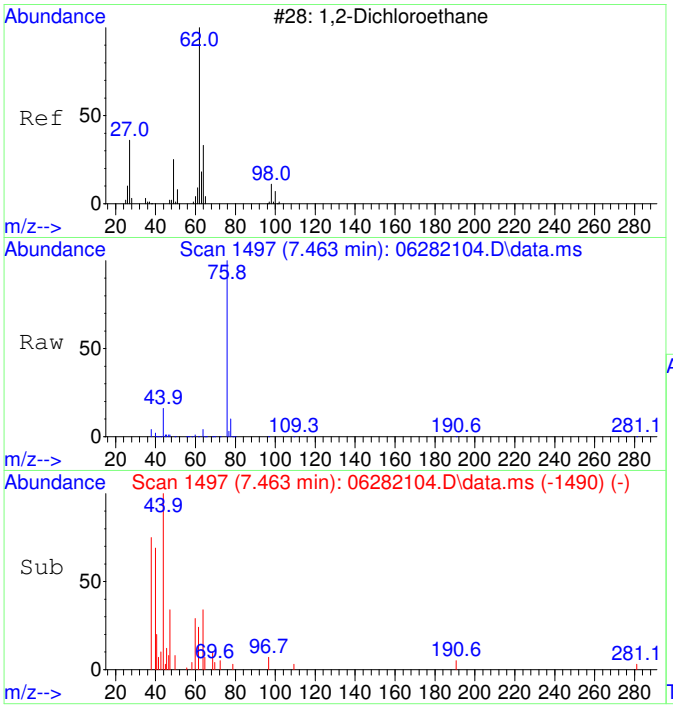


#33
Benzene SCAN
Concen: 340.52 ug/L
RT: 7.426 min Scan# 1494
Delta R.T. -0.012 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 78 Resp: 5055

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.7	0.0	46.7
51	8.7	0.0	46.7

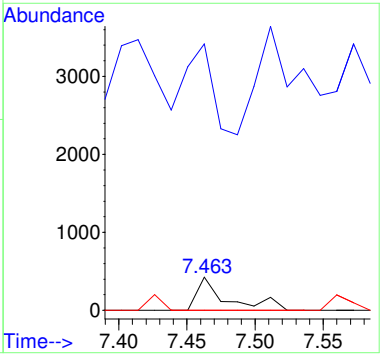


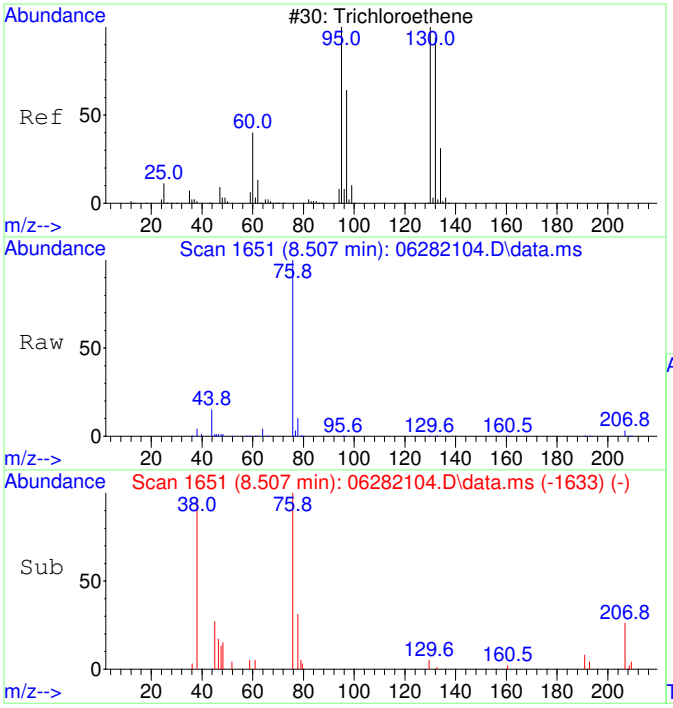


#34
1,2-Dichloroethane SCAN
Concen: 136.53 ug/L
RT: 7.463 min Scan# 1497
Delta R.T. -0.012 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 62 Resp: 639

Ion	Ratio	Lower	Upper
62	100		
64	174.3	13.3	73.3#
49	0.0	4.1	64.1#

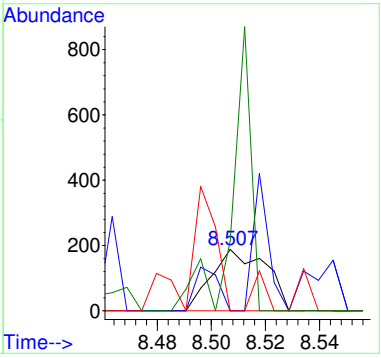


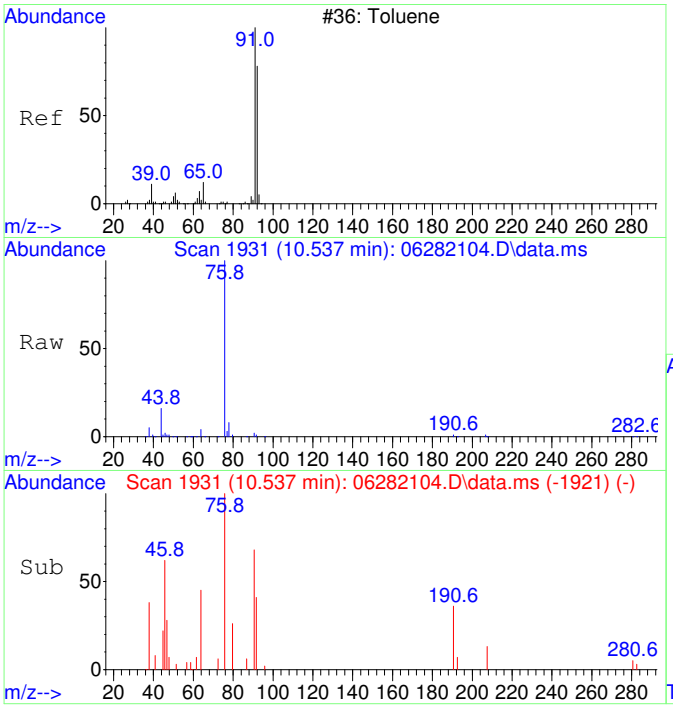


#35
Trichloroethene SCAN
Concen: 69.51 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:130 Resp: 263

Ion	Ratio	Lower	Upper
130	100		
95	63.1	60.0	120.0
132	0.0	54.3	114.3#
97	162.7	24.6	84.6#

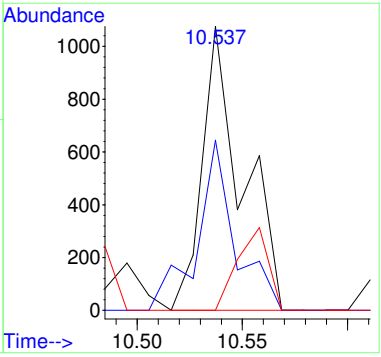


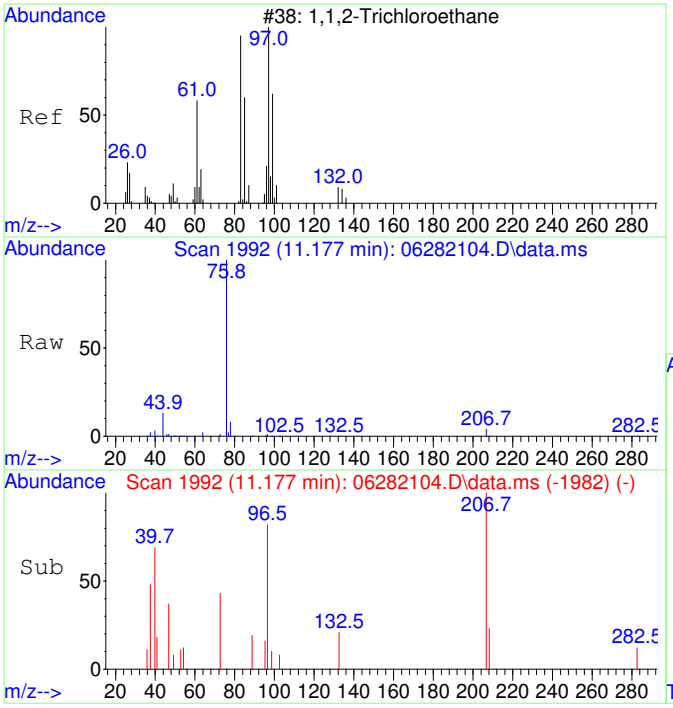


#37
Toluene SCAN
Concen: 65.27 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 1419

Ion	Ratio	Lower	Upper
91	100		
92	56.6	26.5	86.5
65	0.0	0.0	40.6

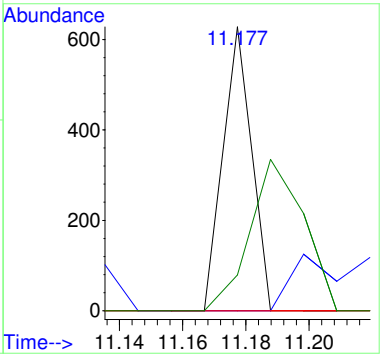


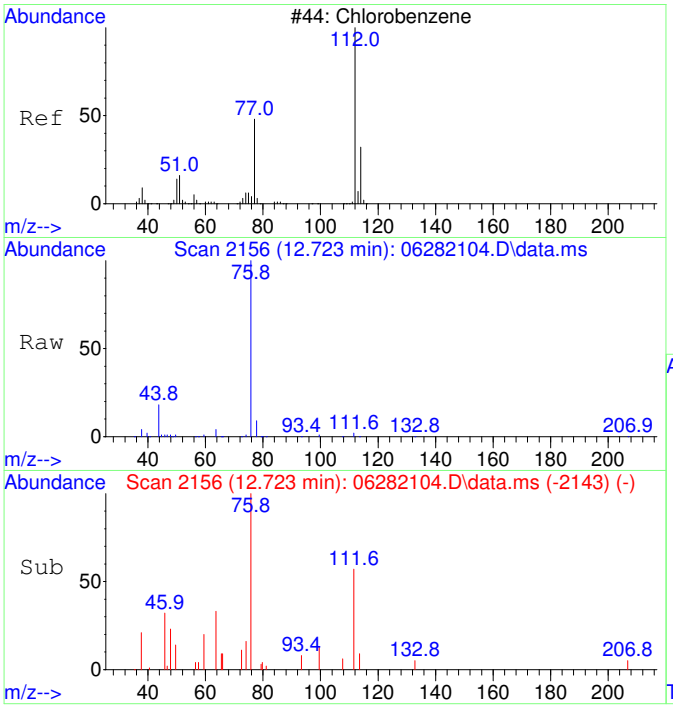


#38
1,1,2-Trichloroethane SCAN
Concen: 76.27 ug/L
RT: 11.177 min Scan# 1992
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 97 Resp: 395

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	100.3	37.5	97.5#

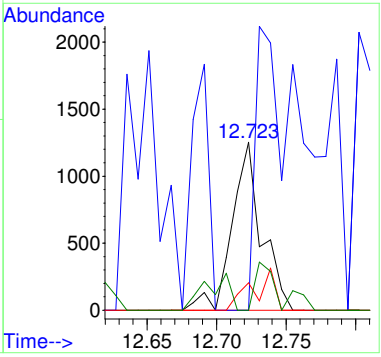


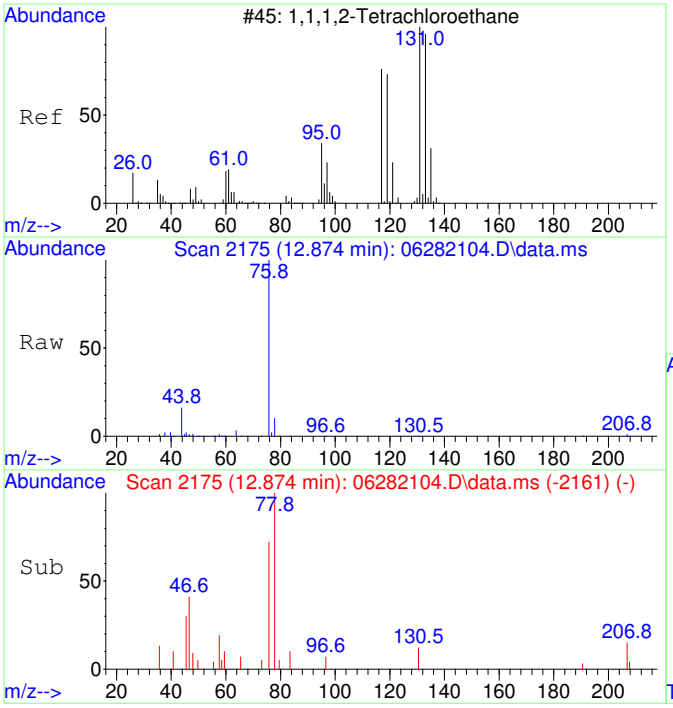


#40
Chlorobenzene SCAN
Concen: 113.90 ug/L
RT: 12.723 min Scan# 2156
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:112 Resp: 1846

Ion	Ratio	Lower	Upper
112	100		
77	318.1	48.5	108.5#
114	18.3	4.9	64.9
51	23.5	0.0	53.6

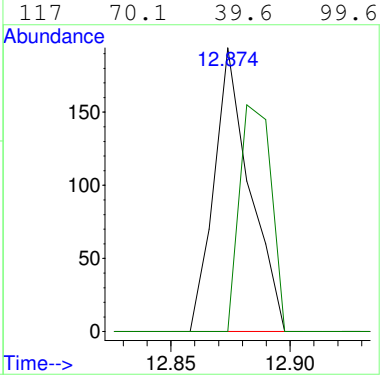


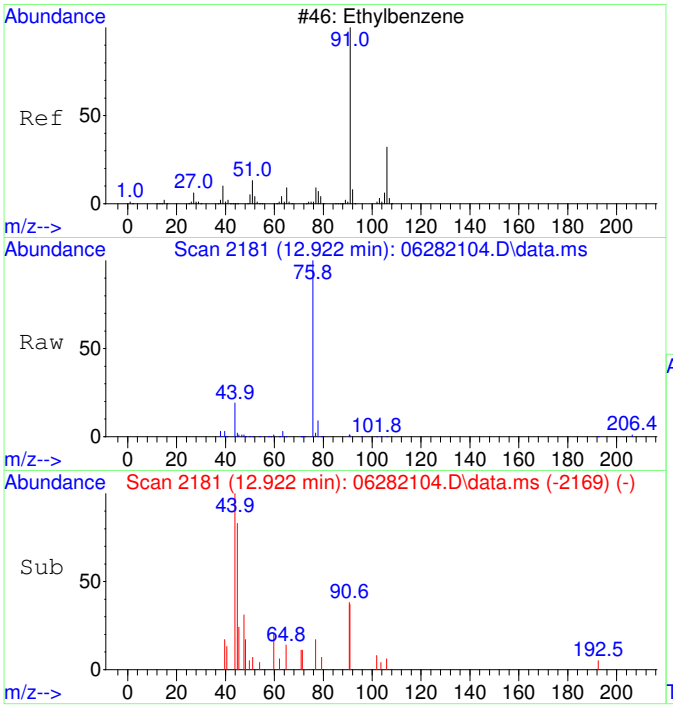


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 42.39 ug/L
RT: 12.874 min Scan# 2175
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:131 Resp: 204

Ion	Ratio	Lower	Upper
131	100		
133	0.0	61.4	121.4#
119	0.0	33.6	93.6#
117	70.1	39.6	99.6

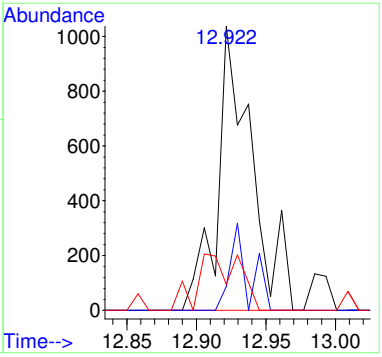


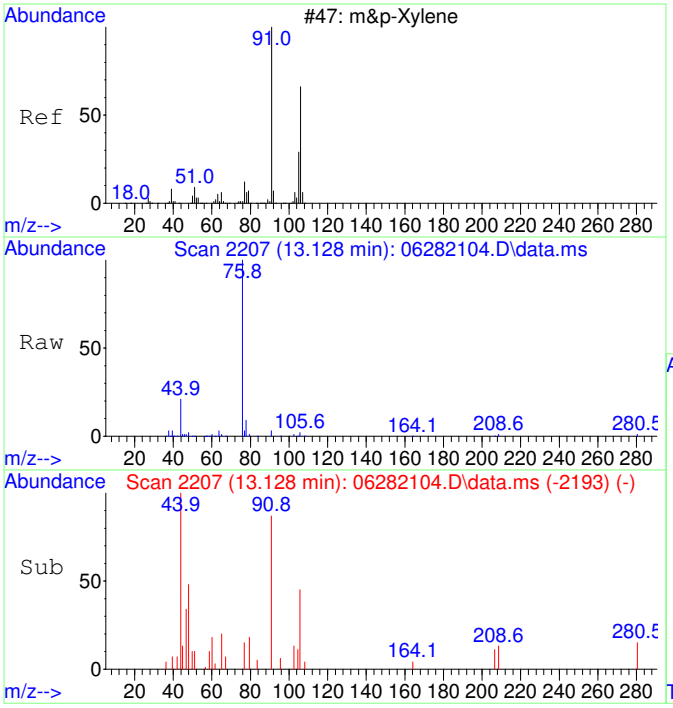


#42
Ethylbenzene SCAN
Concen: 61.66 ug/L
RT: 12.922 min Scan# 2181
Delta R.T. -0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 1787

Ion	Ratio	Lower	Upper
91	100		
106	16.3	0.5	60.5
51	0.0	0.0	39.6

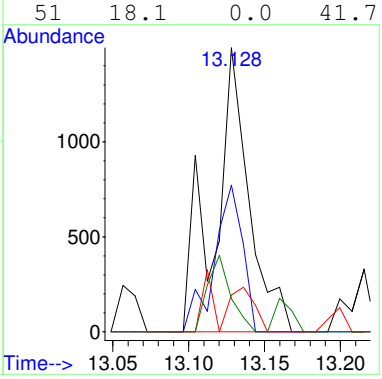


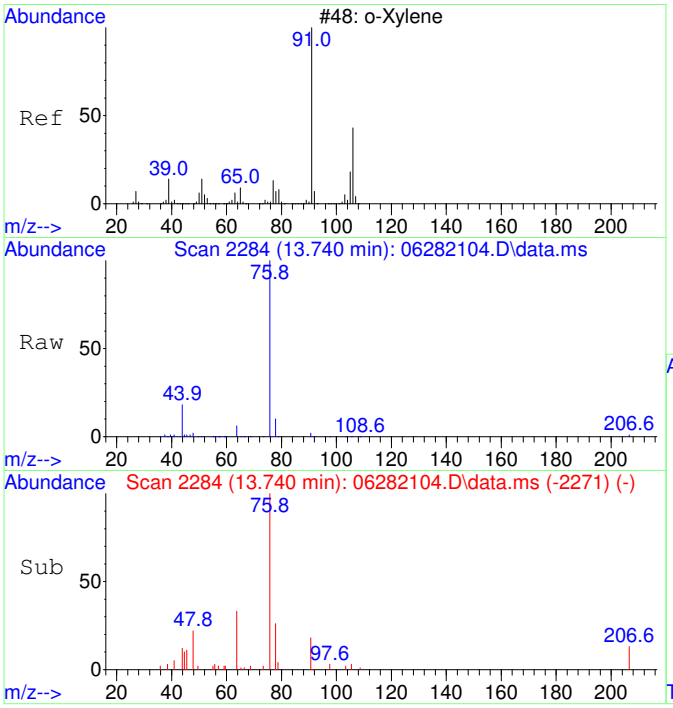


#43
m&p-Xylene SCAN
Concen: 54.63 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 2362

Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.2	81.2
105	11.4	0.0	51.6
51	18.1	0.0	41.7

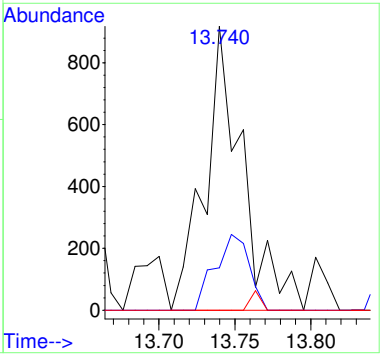


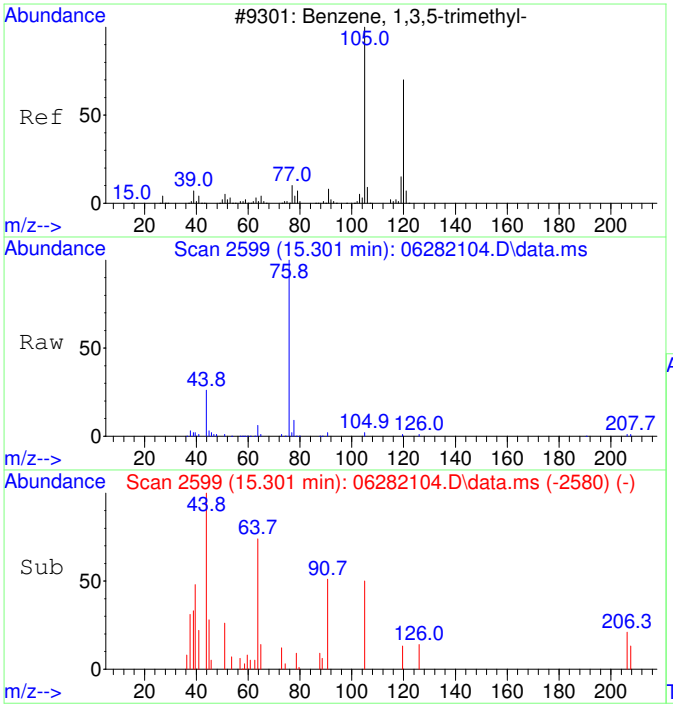


#44
o-Xylene SCAN
Concen: 66.89 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 1591

Ion	Ratio	Lower	Upper
91	100		
106	24.1	19.1	79.1
105	0.0	0.0	55.6

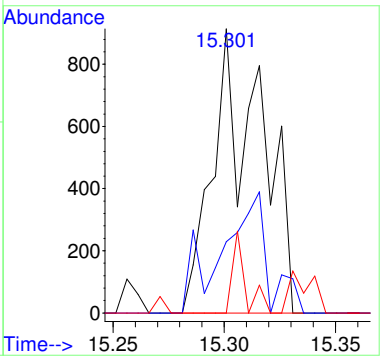


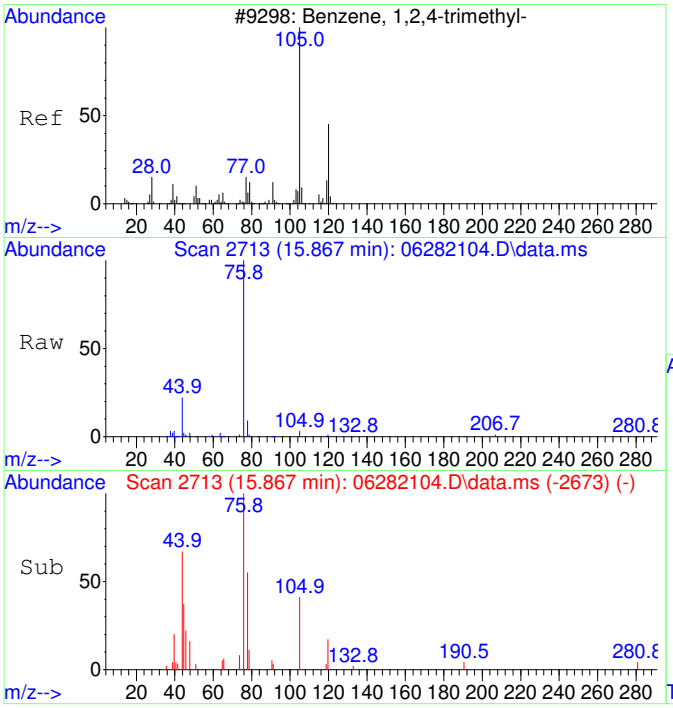


#46
1,3,5-Trimethylbenzene SCAN
Concen: 53.00 ug/L
RT: 15.301 min Scan# 2599
Delta R.T. -0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:105 Resp: 1384

Ion	Ratio	Lower	Upper
105	100		
120	5.8	20.2	80.2#
119	7.6	0.0	43.8

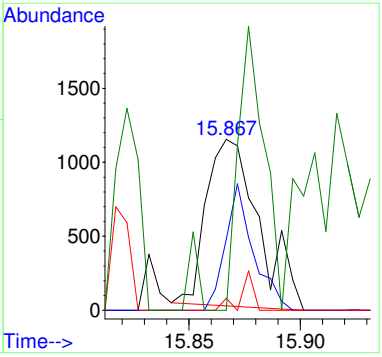


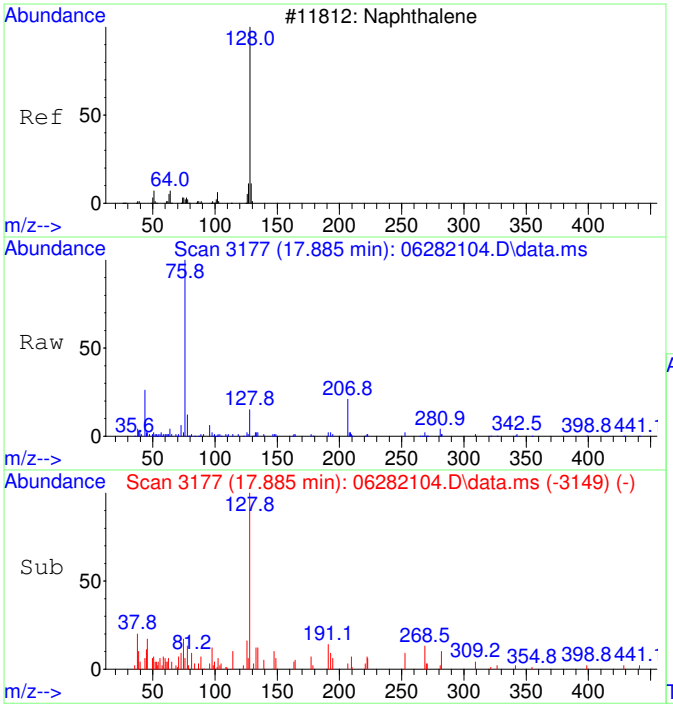


#47
1,2,4-Trimethylbenzene SCAN
Concen: 68.23 ug/L
RT: 15.867 min Scan# 2713
Delta R.T. -0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:105 Resp: 1845

Ion	Ratio	Lower	Upper
105	100		
120	40.3	15.6	75.6
119	5.6	0.0	38.2
77	84.4	0.0	44.0#

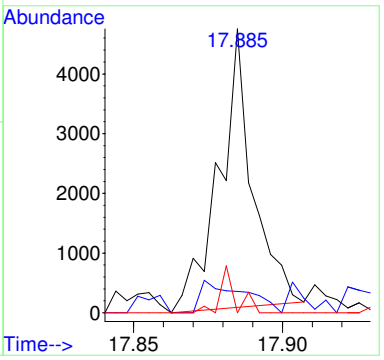




#48
Naphthalene SCAN
Concen: 73.87 ug/L
RT: 17.885 min Scan# 3177
Delta R.T. 0.004 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:128 Resp: 3642

Ion	Ratio	Lower	Upper
128	100		
127	15.2	0.0	41.1
129	7.6	0.0	39.5



B21F073-BLK1

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282105.D
Acq On : 28 Jun 2021 10:42
InstName : AG5975C
Operator : TD
Sample : B21F073-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 11:03:52 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

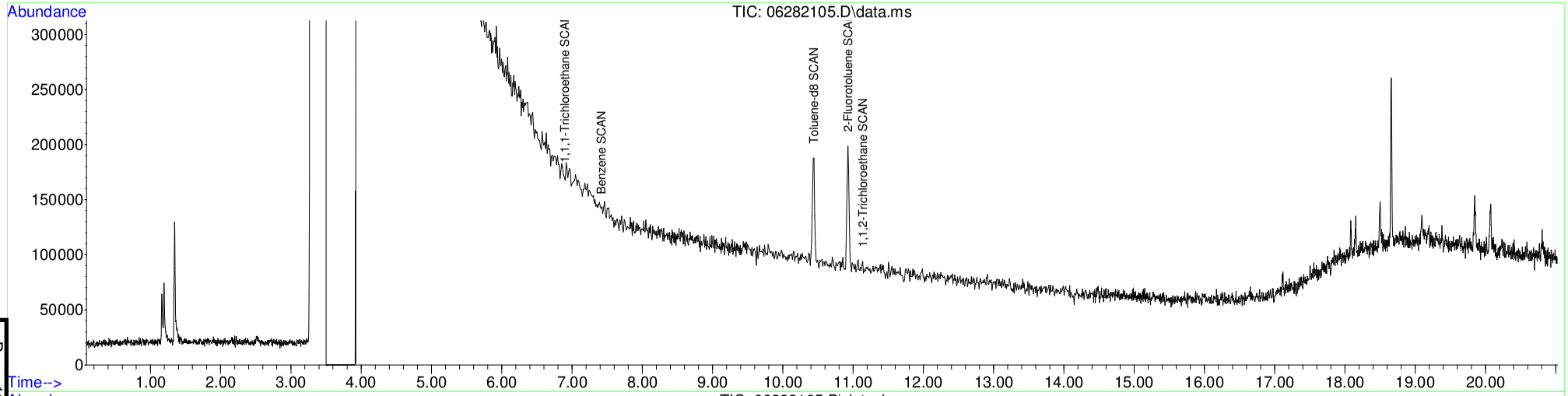
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	161135	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	139392	5050.24	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.00%			
Target Compounds						Qvalue
25) 2-Fluorotoluene SCAN	10.926	109	92177	4647.60	ug/L	95
31) 1,1,1-Trichloroethane ...	6.891	97	283	46.74	ug/L #	28
33) Benzene SCAN	7.414	78	1363	89.66	ug/L #	90
36) Toluene-d8 SCAN	10.443	98	84809	4930.19	ug/L	98
38) 1,1,2-Trichloroethane ...	11.135	97	319	60.15	ug/L #	14

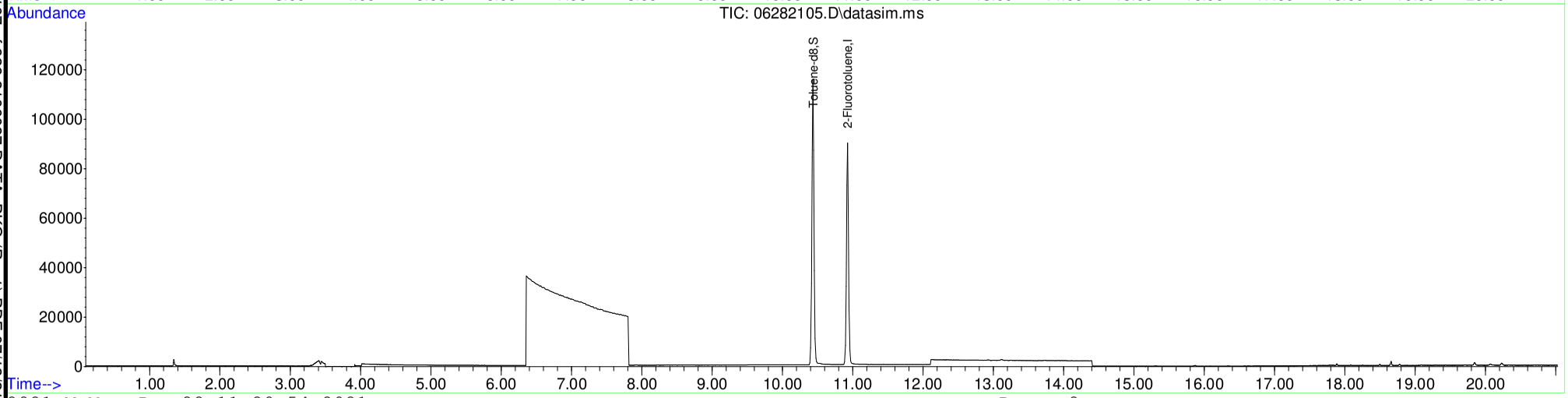
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282105.D
Acq On : 28 Jun 2021 10:42
InstName : AG5975C
Operator : TD
Sample : B21F073-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 11:03:52 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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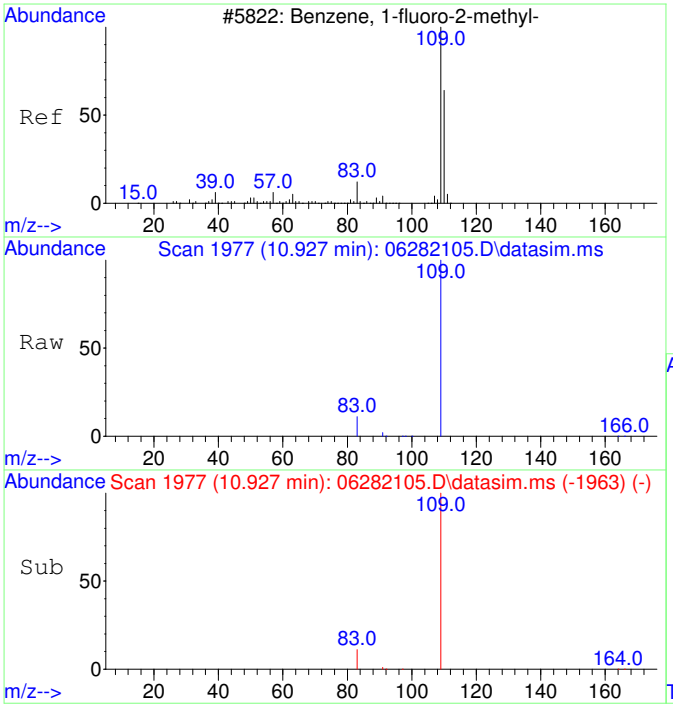
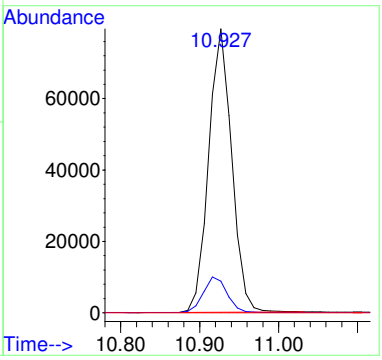
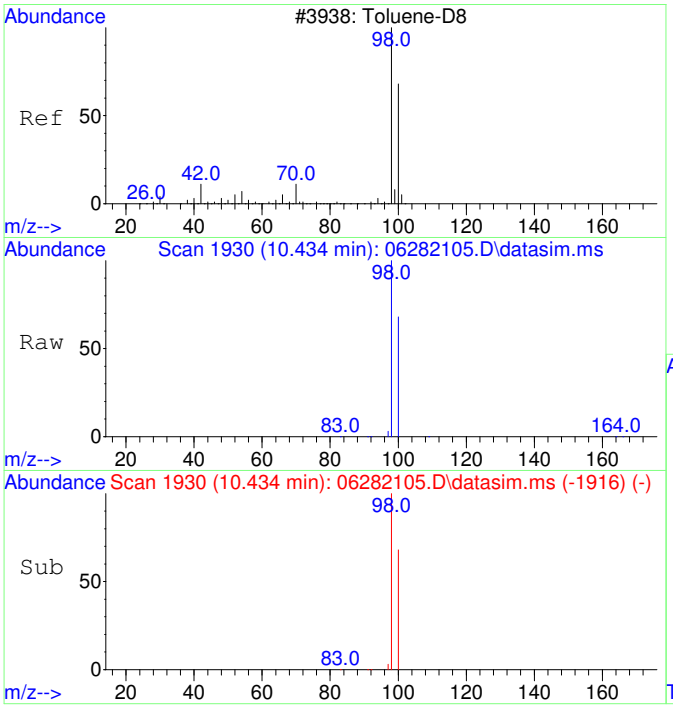


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282105.D
Acq: 28 Jun 2021 10:42

Tgt Ion:109 Resp: 161135

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	43.7
110	0.0	0.0	20.0

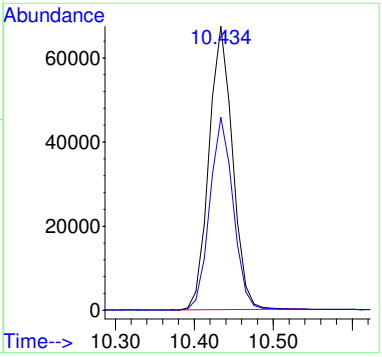


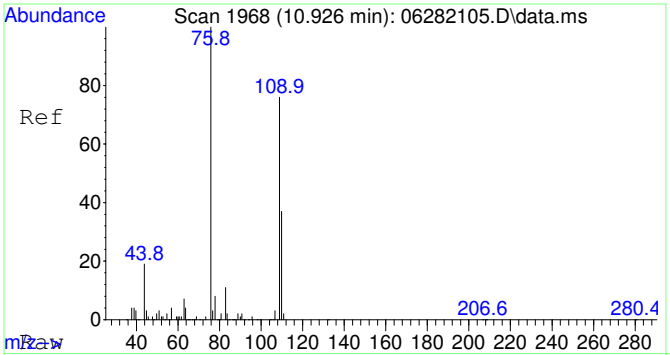


#12
Toluene-d8
Concen: 5050.24 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282105.D
Acq: 28 Jun 2021 10:42

Tgt Ion: 98 Resp: 139392

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

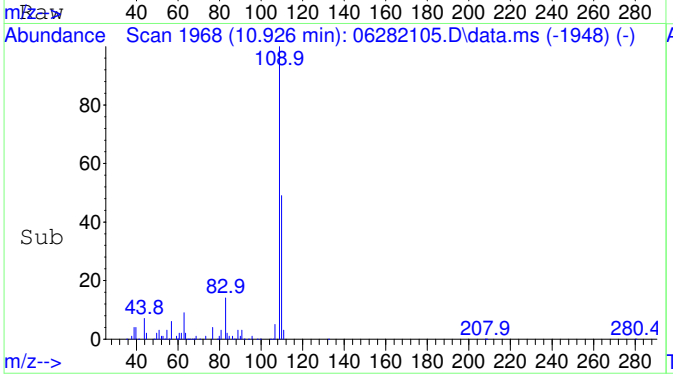


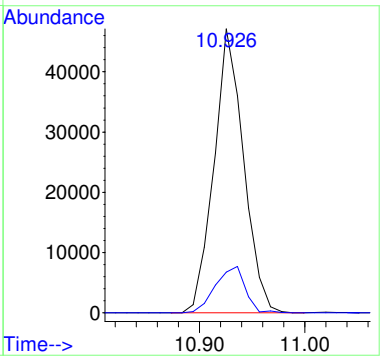


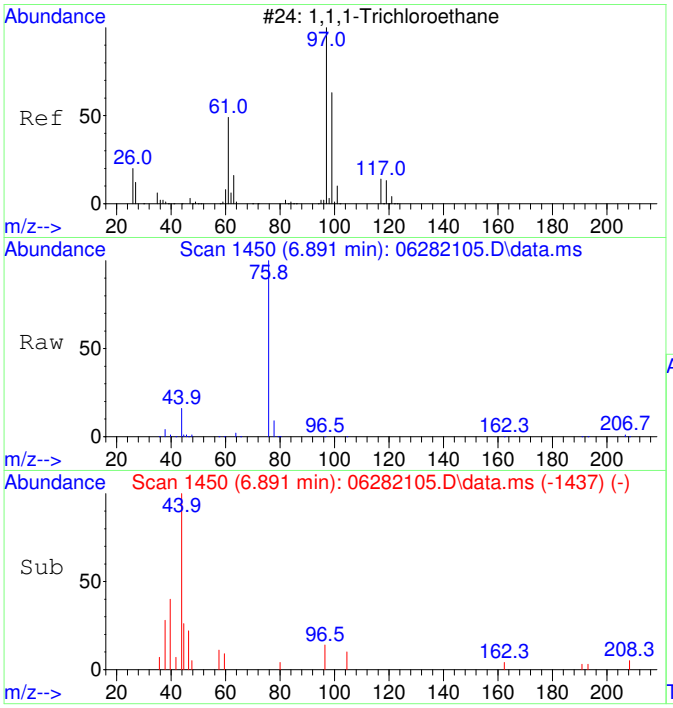
#25
2-Fluorotoluene SCAN
Concen: 4647.60 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282105.D
Acq: 28 Jun 2021 10:42

Tgt Ion:109 Resp: 92177

Ion	Ratio	Lower	Upper
109	100		
83	16.4	0.0	44.5



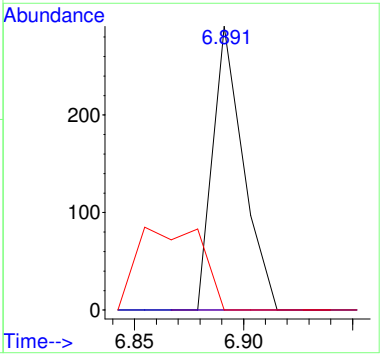


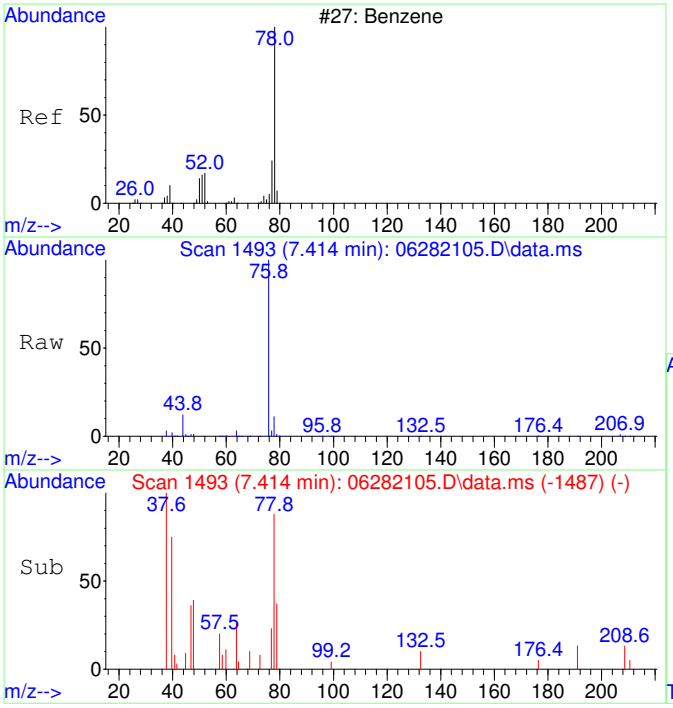


#31
1,1,1-Trichloroethane SCAN
Concen: 46.74 ug/L
RT: 6.891 min Scan# 1450
Delta R.T. 0.061 min
Lab File: 06282105.D
Acq: 28 Jun 2021 10:42

Tgt Ion: 97 Resp: 283

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

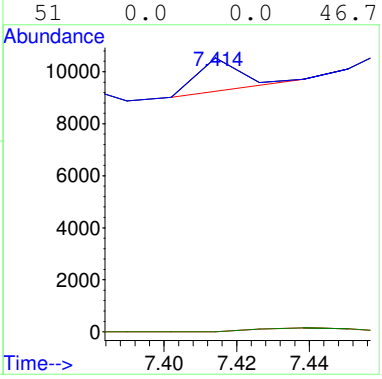


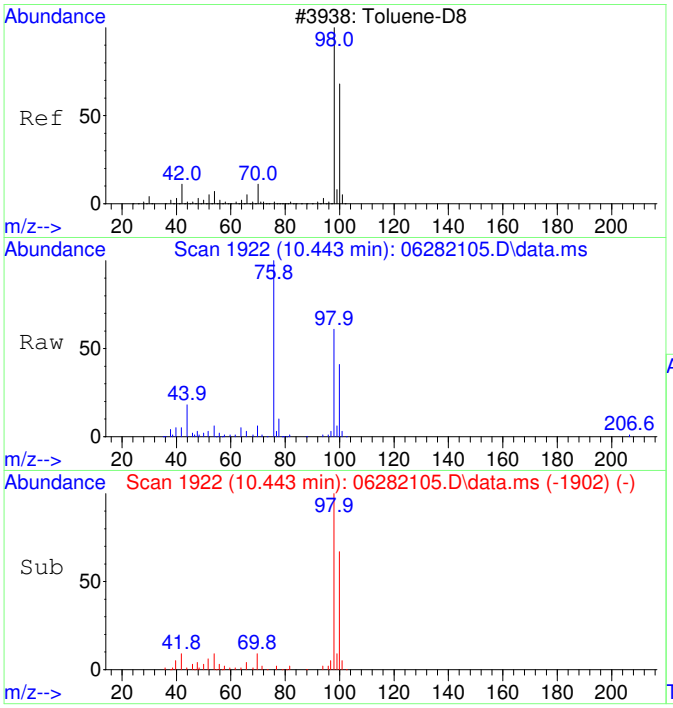


#33
Benzene SCAN
Concen: 89.66 ug/L
RT: 7.414 min Scan# 1493
Delta R.T. -0.024 min
Lab File: 06282105.D
Acq: 28 Jun 2021 10:42

Tgt Ion: 78 Resp: 1363

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

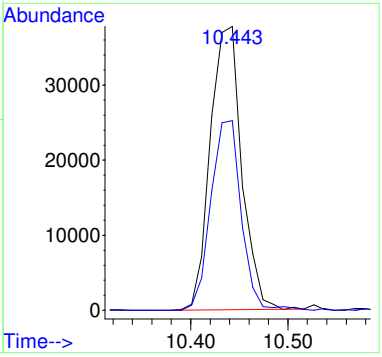


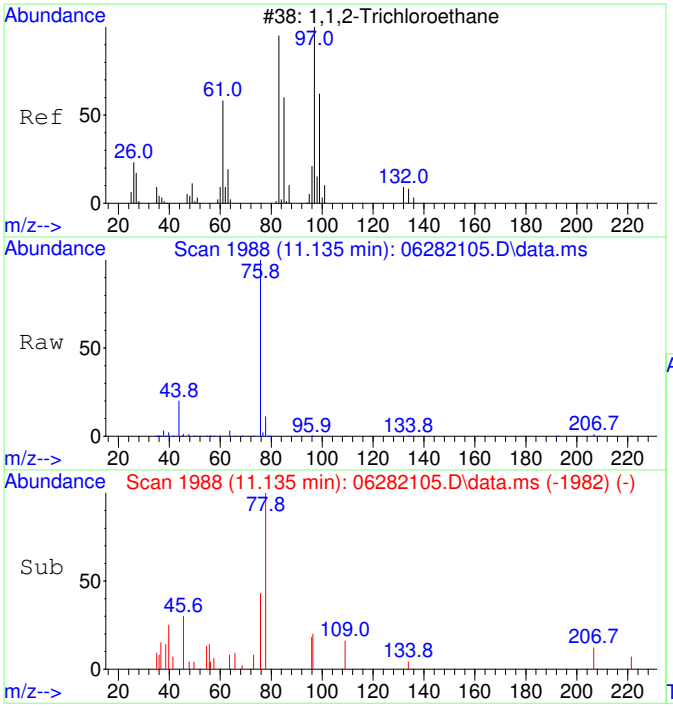


#36
Toluene-d8 SCAN
Concen: 4930.19 ug/L
RT: 10.443 min Scan# 1922
Delta R.T. 0.011 min
Lab File: 06282105.D
Acq: 28 Jun 2021 10:42

Tgt Ion: 98 Resp: 84809

Ion	Ratio	Lower	Upper
98	100		
100	64.7	36.1	96.1

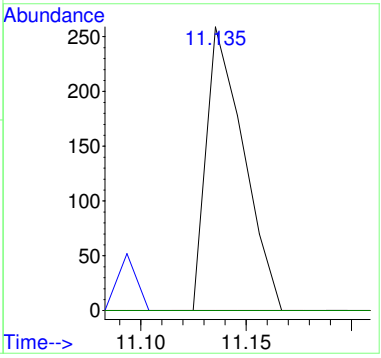




#38
1,1,2-Trichloroethane SCAN
Concen: 60.15 ug/L
RT: 11.135 min Scan# 1988
Delta R.T. -0.042 min
Lab File: 06282105.D
Acq: 28 Jun 2021 10:42

Tgt Ion: 97 Resp: 319

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#



B21F073-BS1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B21F073-BS1
Misc Info: 0
Date Acquired: 6/28/2021
QLast Update: Thu Apr 29 06:45:57 2021
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.927	5000	5000.00	100%	70	130	pass
2)	**1,1-Dichloroethene**	**3.049**	**5000**	**5548.40**	**111%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.214**	**5000**	**5668.31**	**113%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**4.964**	**5000**	**5563.81**	**111%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**5.992**	**5000**	**5528.46**	**111%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.564**	**5000**	**5260.22**	**105%**	**56**	**132**	**pass**
7)	**1,1,1-Trichloroethane**	**6.819**	**5000**	**5474.11**	**109%**	**58**	**131**	pass
8)	Carbon tetrachloride	7.099	5000	5378.15	108%	60	126	pass
9)	Benzene	7.427	5000	4661.56	93%	63	121	pass
10)	1,2-Dichloroethane	7.464	5000	5592.68	112%	57	128	pass
11)	**Trichloroethene**	**8.508**	**5000**	**5219.90**	**104%**	**69**	**124**	**pass**
12)	Toluene-d8	10.433	5000	5050.95	101%	70	130	pass
13)	Toluene	10.528	5000	4774.34	95%	77	111	pass
14)	1,1,2-Trichloroethane	11.179	5000	5017.04	100%	76	115	pass
15)	**Tetrachloroethene**	**11.378**	**5000**	**5128.17**	**103%**	**69**	**124**	**pass**
16)	Chlorobenzene	12.716	5000	4088.79	82%	64	122	pass
17)	1,1,1,2-Tetrachloroethane	12.867	5000	5100.86	102%	68	130	**pass**
18)	Ethylbenzene	12.923	5000	5071.88	101%	70	130	pass
19)	m&p-Xylene	13.121	10000	9684.31	97%	66	129	pass
20)	o-Xylene	13.733	5000	4626.78	93%	63	121	pass
21)	1,1,2,2-Tetrachloroethane	14.831	5000	4625.73	93%	55	132	pass
22)	1,3,5-Trimethylbenzene	15.302	5000	5022.96	100%	61	140	pass
23)	1,2,4-Trimethylbenzene	15.863	5000	4709.68	94%	54	143	pass
25)	2-Fluorotoluene SCAN	10.915	5000	4621.05	92%	20	110	pass
27)	trans-1,2-Dichloroethene SCAN	4.219	5000	5096.02	102%	83	110	pass
29)	cis-1,2-Dichloroethene SCAN	5.997	5000	4627.02	93%	58	118	pass
31)	1,1,1-Trichloroethane SCAN	6.830	5000	4890.60	98%	59	119	pass
33)	Benzene SCAN	7.438	5000	4612.25	92%	69	129	pass
35)	Trichloroethene SCAN	8.507	5000	5550.85	111%	69	129	pass
37)	Toluene SCAN	10.537	5000	4922.57	98%	66	126	pass
39)	Tetrachloroethene SCAN	11.387	5000	5147.70	103%	59	119	pass
41)	1,1,1,2-Tetrachloroethane SCAN	12.866	5000	4959.58	99%	62	122	pass
43)	m&p-Xylene SCAN	13.120	5000	4604.15	92%	68	128	pass
45)	1,1,2,2-Tetrachloroethane SCAN	14.826	5000	4406.86	88%	63	123	pass
47)	1,2,4-Trimethylbenzene SCAN	15.867	5000	4688.97	94%	20	110	pass

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282106.D
Acq On : 28 Jun 2021 11:09
InstName : AG5975C
Operator : TD
Sample : B21F073-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 11:30:15 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

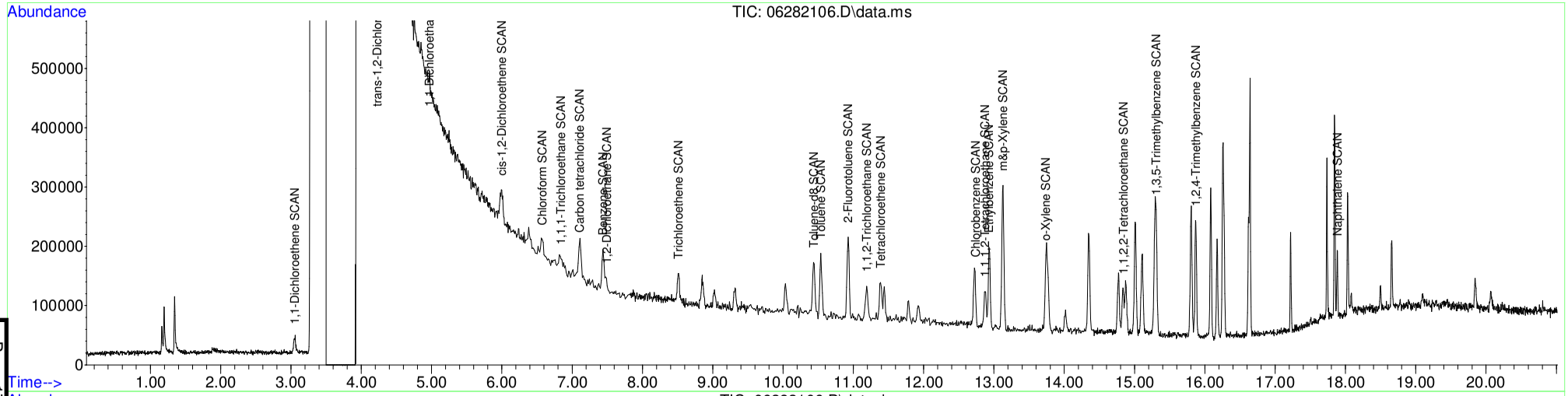
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	142127	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	122966	5050.95 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.02%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.049	61	34347	5548.40 ug/L #	98
3] trans-1,2-Dichloroethene	4.214	61	30198	5668.31 ug/L #	100
4] 1,1-Dichloroethane	4.964	63	40654	5563.81 ug/L #	100
5] cis-1,2-Dichloroethene	5.992	61	38706	5528.46 ug/L #	100
6] Chloroform	6.564	83	43343	5260.22 ug/L #	99
7] 1,1,1-Trichloroethane	6.831	97	41969	5474.11 ug/L #	100
8] Carbon tetrachloride	7.099	117	35922	5378.15 ug/L #	99
9] Benzene	7.427	78	107916	4661.56 ug/L #	100
10] 1,2-Dichloroethane	7.476	62	35610	5592.68 ug/L #	98
11] Trichloroethene	8.514	130	32177	5219.90 ug/L	98
13] Toluene	10.528	91	151294	4774.34 ug/L	99
14] 1,1,2-Trichloroethane	11.189	97	33074	5017.04 ug/L #	99
15] Tetrachloroethene	11.388	166	41571	5128.17 ug/L #	99
16] Chlorobenzene	12.724	112	112208	4088.79 ug/L #	99
17] 1,1,1,2-Tetrachloroethane	12.875	131	37247	5100.86 ug/L #	100
18] Ethylbenzene	12.931	91	206413	5071.88 ug/L #	100
19] m&p-Xylene	13.121	91	310481	9684.31 ug/L #	100
20] o-Xylene	13.741	91	160433	4626.78 ug/L #	97
21] 1,1,2,2-Tetrachloroethane	14.835	83	69899	4625.73 ug/L #	99
22] 1,3,5-Trimethylbenzene	15.307	105	204563	5022.96 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	199783	4709.68 ug/L #	99
24] Naphthalene	17.882	128	111067	1401.78 ug/L #	99
25) 2-Fluorotoluene SCAN	10.925	109	80839	4621.05 ug/L	96
26) 1,1-Dichloroethene SCAN	3.052	61	20183	5462.38 ug/L	96
27) trans-1,2-Dichloroethe...	4.219	61	20370	5096.02 ug/L	90
28) 1,1-Dichloroethane SCAN	4.969	63	27768	5183.47 ug/L	89
29) cis-1,2-Dichloroethene...	5.997	61	25007	4627.02 ug/L	97
30) Chloroform SCAN	6.575	83	28274	4946.74 ug/L	96
31) 1,1,1-Trichloroethane ...	6.842	97	26118	4890.60 ug/L	93
32) Carbon tetrachloride SCAN	7.098	117	20747	4708.12 ug/L	92
33) Benzene SCAN	7.438	78	61843	4612.25 ug/L	100
34) 1,2-Dichloroethane SCAN	7.487	62	22957	5430.73 ug/L	92
35) Trichloroethene SCAN	8.512	130	18971	5550.85 ug/L	82
36) Toluene-d8 SCAN	10.432	98	77004	5075.14 ug/L	92
37) Toluene SCAN	10.537	91	96667	4922.57 ug/L	96
38) 1,1,2-Trichloroethane ...	11.188	97	22582	4827.26 ug/L	95
39) Tetrachloroethene SCAN	11.387	166	24343	5147.70 ug/L	89
40) Chlorobenzene SCAN	12.731	112	66007	4508.90 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.874	131	21559	4959.58 ug/L	94
42) Ethylbenzene SCAN	12.930	91	124551	4757.93 ug/L	98
43) m&p-Xylene SCAN	13.128	91	179807	4604.15 ug/L	98
44) o-Xylene SCAN	13.740	91	95975	4467.43 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.837	83	46278	4406.86 ug/L	97
46) 1,3,5-Trimethylbenzene...	15.306	105	114071	4836.80 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.867	105	114523	4688.97 ug/L	96
48) Naphthalene SCAN	17.881	128	53150	1193.56 ug/L	98

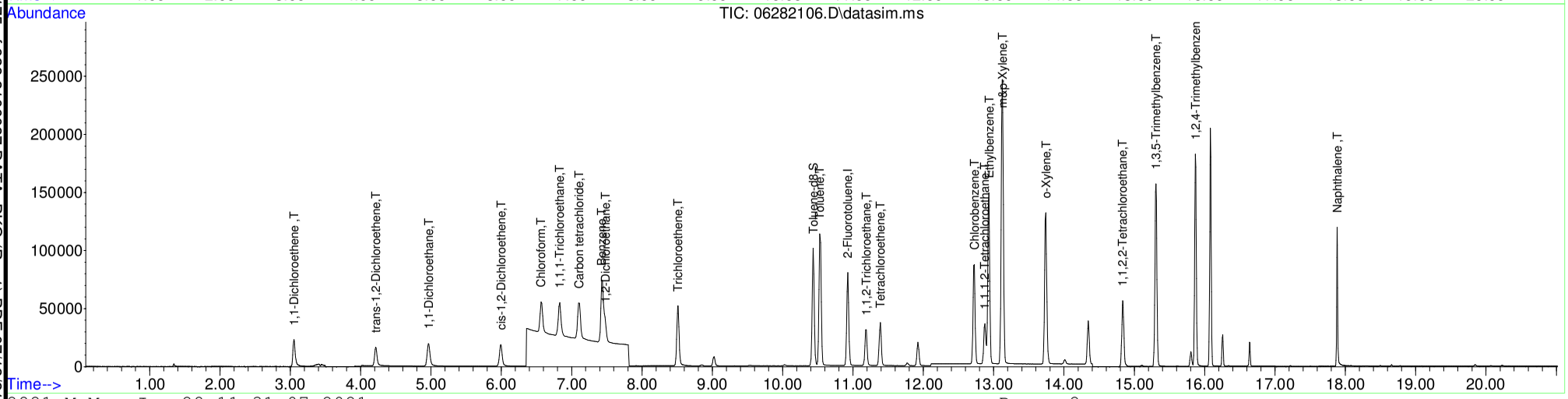
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282106.D
Acq On : 28 Jun 2021 11:09
InstName : AG5975C
Operator : TD
Sample : B21F073-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 11:30:15 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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B21F073-BSD1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B21F073-BSD1
Misc Info: 0
Date Acquired: 6/28/2021
QLast Update: Thu Apr 29 06:45:57 2021
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.927	5000	5000.00	100%	70	130	pass
2)	**1,1-Dichloroethene**	**3.049**	**5000**	**5071.82**	**101%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.214**	**5000**	**5123.63**	**102%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**4.964**	**5000**	**5035.58**	**101%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**5.992**	**5000**	**5070.59**	**101%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.564**	**5000**	**4789.00**	**96%**	**56**	**132**	**pass**
7)	**1,1,1-Trichloroethane**	**6.819**	**5000**	**5017.27**	**100%**	**58**	**131**	pass
8)	Carbon tetrachloride	7.099	5000	4948.90	99%	60	126	pass
9)	Benzene	7.427	5000	4336.38	87%	63	121	pass
10)	1,2-Dichloroethane	7.464	5000	5176.04	104%	57	128	pass
11)	**Trichloroethene**	**8.508**	**5000**	**4841.00**	**97%**	**69**	**124**	**pass**
12)	Toluene-d8	10.433	5000	5071.32	101%	70	130	pass
13)	Toluene	10.528	5000	4544.19	91%	77	111	pass
14)	1,1,2-Trichloroethane	11.179	5000	4746.12	95%	76	115	pass
15)	**Tetrachloroethene**	**11.378**	**5000**	**4851.29**	**97%**	**69**	**124**	**pass**
16)	Chlorobenzene	12.716	5000	3898.57	78%	64	122	pass
17)	1,1,1,2-Tetrachloroethane	12.867	5000	4829.14	97%	68	130	**pass**
18)	Ethylbenzene	12.923	5000	4882.11	98%	70	130	pass
19)	m&p-Xylene	13.121	10000	9368.81	94%	66	129	pass
20)	o-Xylene	13.733	5000	4486.85	90%	63	121	pass
21)	1,1,2,2-Tetrachloroethane	14.831	5000	4425.69	89%	55	132	pass
22)	1,3,5-Trimethylbenzene	15.302	5000	4894.13	98%	61	140	pass
23)	1,2,4-Trimethylbenzene	15.863	5000	4609.78	92%	54	143	pass
25)	2-Fluorotoluene SCAN	10.915	5000	4932.78	99%	20	110	pass
27)	trans-1,2-Dichloroethene SCAN	4.219	5000	4589.87	92%	83	110	pass
29)	cis-1,2-Dichloroethene SCAN	5.997	5000	4359.06	87%	58	118	pass
31)	1,1,1-Trichloroethane SCAN	6.830	5000	4594.66	92%	59	119	pass
33)	Benzene SCAN	7.438	5000	4635.97	93%	69	129	pass
35)	Trichloroethene SCAN	8.507	5000	5363.54	107%	69	129	pass
37)	Toluene SCAN	10.537	5000	4614.06	92%	66	126	pass
39)	Tetrachloroethene SCAN	11.387	5000	4429.94	89%	59	119	pass
41)	1,1,1,2-Tetrachloroethane SCAN	12.866	5000	4695.27	94%	62	122	pass
43)	m&p-Xylene SCAN	13.120	5000	4514.95	90%	68	128	pass
45)	1,1,2,2-Tetrachloroethane SCAN	14.826	5000	4033.53	81%	63	123	pass
47)	1,2,4-Trimethylbenzene SCAN	15.867	5000	4297.82	86%	20	110	pass

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282107.D
Acq On : 28 Jun 2021 11:35
InstName : AG5975C
Operator : TD
Sample : B21F073-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 28 11:59:07 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

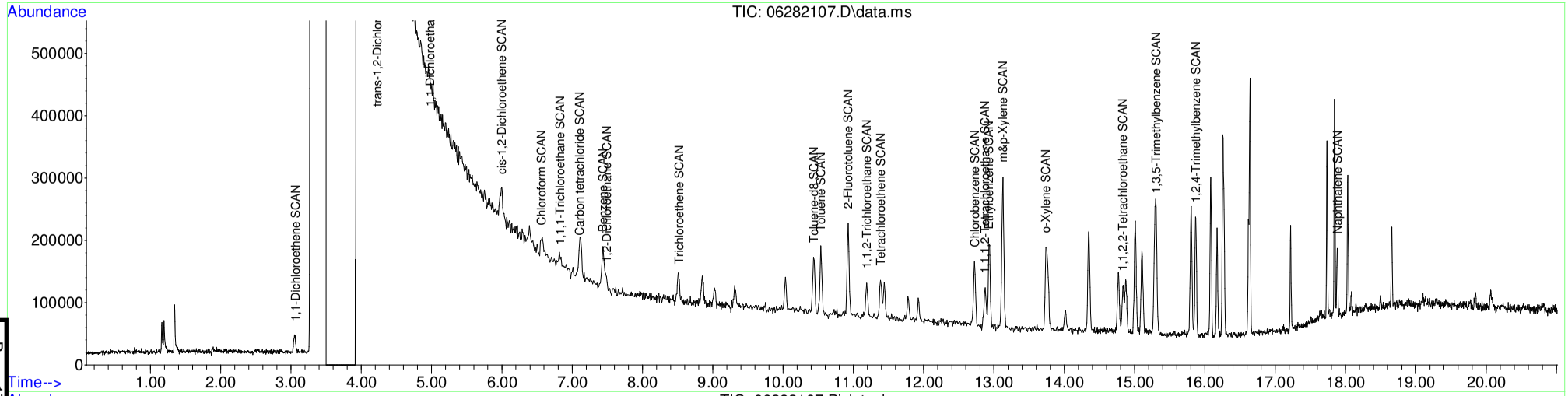
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	142454	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	123746	5071.32 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.43%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	31469	5071.82 ug/L #	98
3] trans-1,2-Dichloroethene	4.214	61	27359	5123.63 ug/L #	100
4] 1,1-Dichloroethane	4.964	63	36879	5035.58 ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	35582	5070.59 ug/L #	100
6] Chloroform	6.564	83	39551	4789.00 ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	38555	5017.27 ug/L #	100
8] Carbon tetrachloride	7.099	117	33131	4948.90 ug/L #	100
9] Benzene	7.427	78	100619	4336.38 ug/L #	100
10] 1,2-Dichloroethane	7.476	62	33033	5176.04 ug/L #	98
11] Trichloroethene	8.513	130	29910	4841.00 ug/L	98
13] Toluene	10.528	91	144332	4544.19 ug/L	99
14] 1,1,2-Trichloroethane	11.189	97	31360	4746.12 ug/L #	99
15] Tetrachloroethene	11.388	166	39417	4851.29 ug/L #	99
16] Chlorobenzene	12.724	112	107234	3898.57 ug/L #	98
17] 1,1,1,2-Tetrachloroethane	12.875	131	35344	4829.14 ug/L #	100
18] Ethylbenzene	12.931	91	199147	4882.11 ug/L #	99
19] m&p-Xylene	13.121	91	301057	9368.81 ug/L #	100
20] o-Xylene	13.741	91	155939	4486.85 ug/L #	97
21] 1,1,2,2-Tetrachloroethane	14.834	83	67030	4425.69 ug/L #	100
22] 1,3,5-Trimethylbenzene	15.307	105	199775	4894.13 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	195995	4609.78 ug/L #	99
24] Naphthalene	17.882	128	112074	1411.24 ug/L #	99
25) 2-Fluorotoluene SCAN	10.925	109	86491	4932.78 ug/L	99
26) 1,1-Dichloroethene SCAN	3.059	61	22357	6036.86 ug/L	94
27) trans-1,2-Dichloroethe...	4.219	61	18389	4589.87 ug/L	91
28) 1,1-Dichloroethane SCAN	4.976	63	23759	4424.93 ug/L	83
29) cis-1,2-Dichloroethene...	5.991	61	23613	4359.06 ug/L	95
30) Chloroform SCAN	6.562	83	26573	4638.47 ug/L	87
31) 1,1,1-Trichloroethane ...	6.830	97	24594	4594.66 ug/L	96
32) Carbon tetrachloride SCAN	7.098	117	21247	4810.52 ug/L	93
33) Benzene SCAN	7.438	78	62304	4635.97 ug/L	99
34) 1,2-Dichloroethane SCAN	7.487	62	23477	5540.99 ug/L	84
35) Trichloroethene SCAN	8.518	130	18373	5363.54 ug/L	89
36) Toluene-d8 SCAN	10.432	98	70285	4621.68 ug/L	89
37) Toluene SCAN	10.537	91	90817	4614.06 ug/L	98
38) 1,1,2-Trichloroethane ...	11.188	97	19373	4131.78 ug/L	91
39) Tetrachloroethene SCAN	11.387	166	20997	4429.94 ug/L	96
40) Chlorobenzene SCAN	12.723	112	64683	4408.32 ug/L	96
41) 1,1,1,2-Tetrachloroeth...	12.874	131	20457	4695.27 ug/L	98
42) Ethylbenzene SCAN	12.929	91	123170	4694.37 ug/L	99
43) m&p-Xylene SCAN	13.128	91	176729	4514.95 ug/L	97
44) o-Xylene SCAN	13.740	91	90761	4215.03 ug/L	93
45) 1,1,2,2-Tetrachloroeth...	14.833	83	42455	4033.53 ug/L	96
46) 1,3,5-Trimethylbenzene...	15.306	105	106354	4499.24 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.867	105	105211	4297.82 ug/L	95
48) Naphthalene SCAN	17.881	128	55188	1236.48 ug/L	97

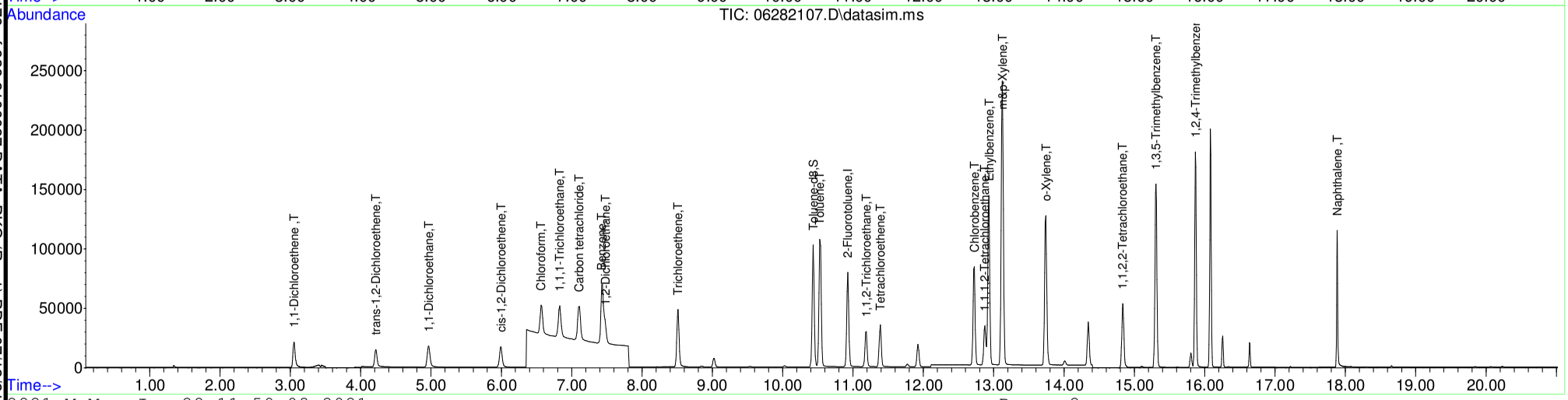
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282107.D
Acq On : 28 Jun 2021 11:35
InstName : AG5975C
Operator : TD
Sample : B21F073-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 28 11:59:07 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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B21F073-MRL1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282108.D
Acq On : 28 Jun 2021 12:02
InstName : AG5975C
Operator : TD
Sample : B21F073-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 28 13:54:27 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

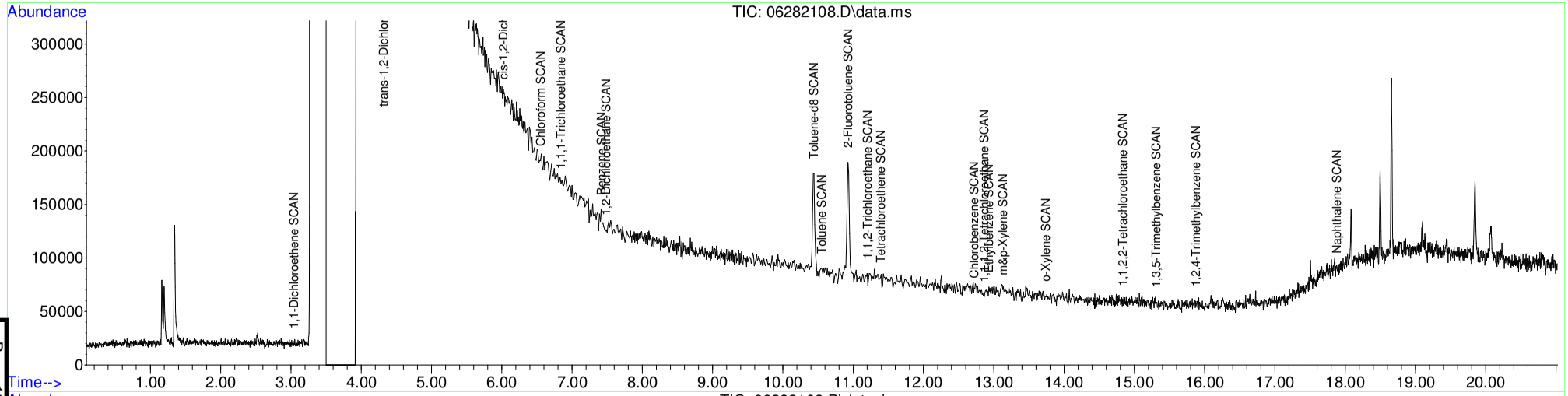
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	152752	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	132889	5078.86	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.58%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.053	61	343	51.55	ug/L #	98
3] trans-1,2-Dichloroethene	4.221	61	350	61.13	ug/L #	94
4] 1,1-Dichloroethane	4.964	63	413	52.59	ug/L #	72
5] cis-1,2-Dichloroethene	5.992	61	415	55.15	ug/L #	98
6] Chloroform	6.564	83	461	52.06	ug/L #	94
7] 1,1,1-Trichloroethane	6.831	97	436	52.91	ug/L #	85
8] Carbon tetrachloride	7.099	117	392	54.61	ug/L #	85
9] Benzene	7.428	78	1440	57.88	ug/L #	62
10] 1,2-Dichloroethane	7.476	62	404	59.04	ug/L #	43
11] Trichloroethene	8.514	130	380	57.36	ug/L	95
13] Toluene	10.528	91	2029	59.57	ug/L	100
14] 1,1,2-Trichloroethane	11.189	97	384	54.20	ug/L #	88
15] Tetrachloroethene	11.389	166	504	57.85	ug/L #	94
16] Chlorobenzene	12.724	112	1424	48.28	ug/L #	57
17] 1,1,1,2-Tetrachloroethane	12.875	131	458	58.36	ug/L #	99
18] Ethylbenzene	12.931	91	2828	64.65	ug/L #	97
19] m&p-Xylene	13.121	91	4565	132.48	ug/L #	98
20] o-Xylene	13.741	91	2220	59.57	ug/L #	99
21] 1,1,2,2-Tetrachloroethane	14.838	83	831	51.17	ug/L #	99
22] 1,3,5-Trimethylbenzene	15.307	105	2841	64.91	ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	3199	70.17	ug/L #	100
24] Naphthalene	17.883	128	2302	27.03	ug/L #	95
25) 2-Fluorotoluene SCAN	10.925	109	88617	4713.31	ug/L	100
26) 1,1-Dichloroethene SCAN	3.044	61	97	24.43	ug/L #	1
27) trans-1,2-Dichloroethe...	4.319	61	217	50.51	ug/L	68
29) cis-1,2-Dichloroethene...	6.017	61	523	90.04	ug/L #	7
30) Chloroform SCAN	6.550	83	482	78.46	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.842	97	317	55.23	ug/L #	15
33) Benzene SCAN	7.414	78	5366	372.36	ug/L	91
34) 1,2-Dichloroethane SCAN	7.487	62	417	91.78	ug/L #	36
36) Toluene-d8 SCAN	10.432	98	74045	4540.68	ug/L	97
37) Toluene SCAN	10.548	91	1331	63.06	ug/L #	60
38) 1,1,2-Trichloroethane ...	11.198	97	692	137.64	ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	203	39.94	ug/L #	31
40) Chlorobenzene SCAN	12.715	112	709	45.06	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.866	131	257	55.01	ug/L #	49
42) Ethylbenzene SCAN	12.930	91	2201	78.23	ug/L	91
43) m&p-Xylene SCAN	13.128	91	3026	72.09	ug/L #	87
44) o-Xylene SCAN	13.740	91	1537	66.57	ug/L	68
45) 1,1,2,2-Tetrachloroeth...	14.837	83	657	58.21	ug/L #	48
46) 1,3,5-Trimethylbenzene...	15.306	105	1551	61.19	ug/L #	77
47) 1,2,4-Trimethylbenzene...	15.872	105	2173	82.78	ug/L #	39
48) Naphthalene SCAN	17.881	128	1621	33.87	ug/L	90

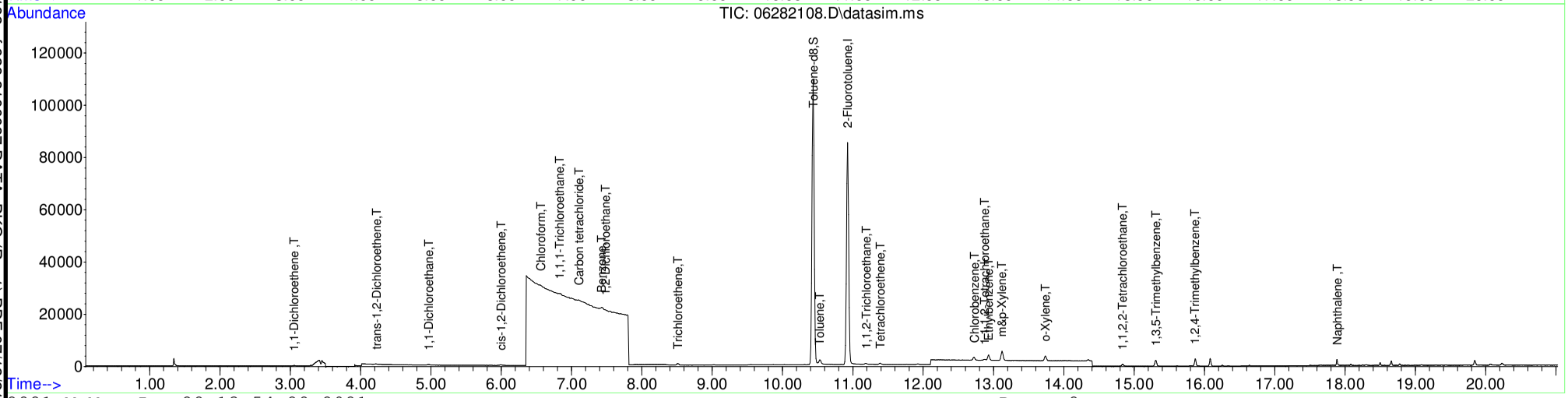
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282108.D
Acq On : 28 Jun 2021 12:02
InstName : AG5975C
Operator : TD
Sample : B21F073-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 28 13:54:27 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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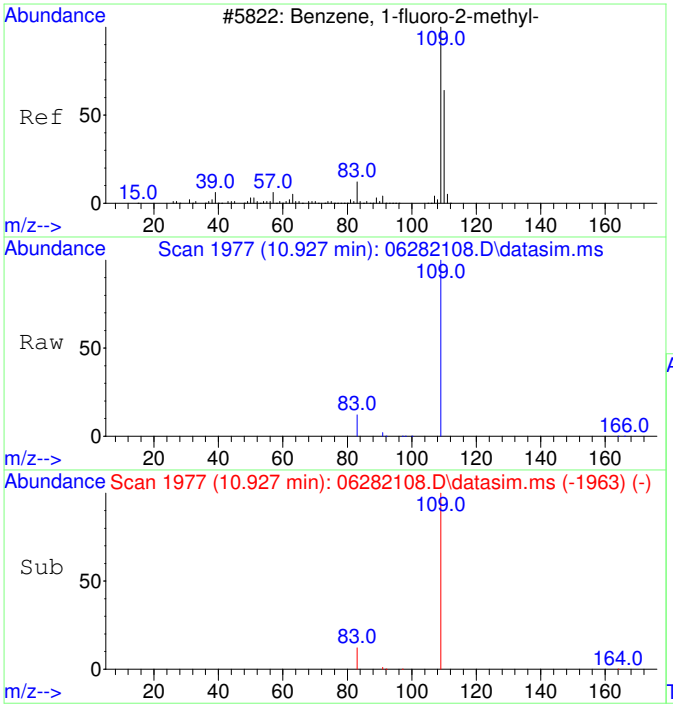
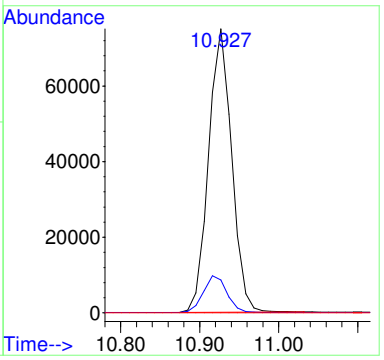
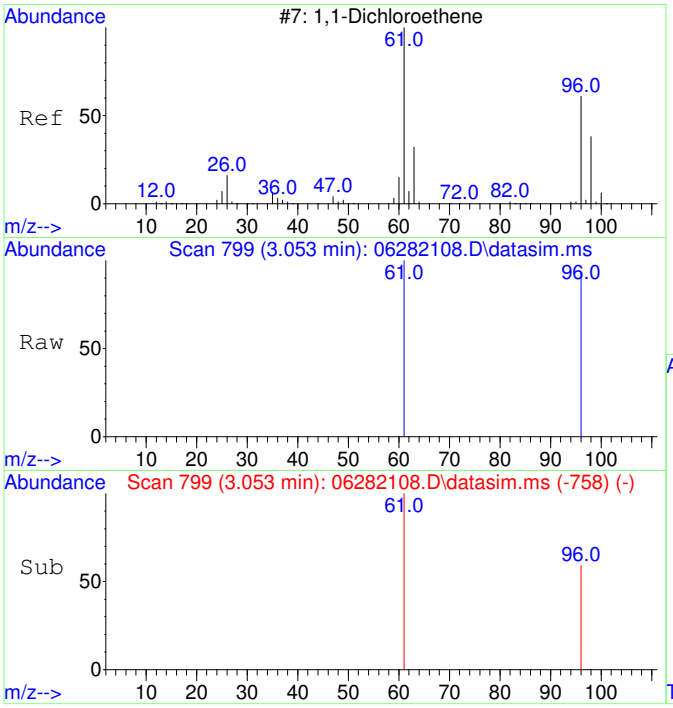


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:109 Resp: 152752

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

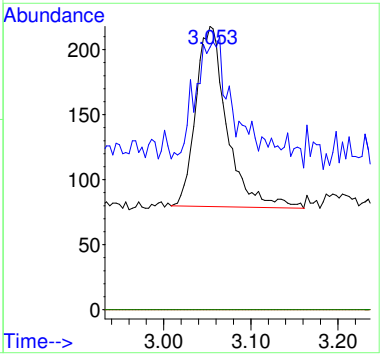


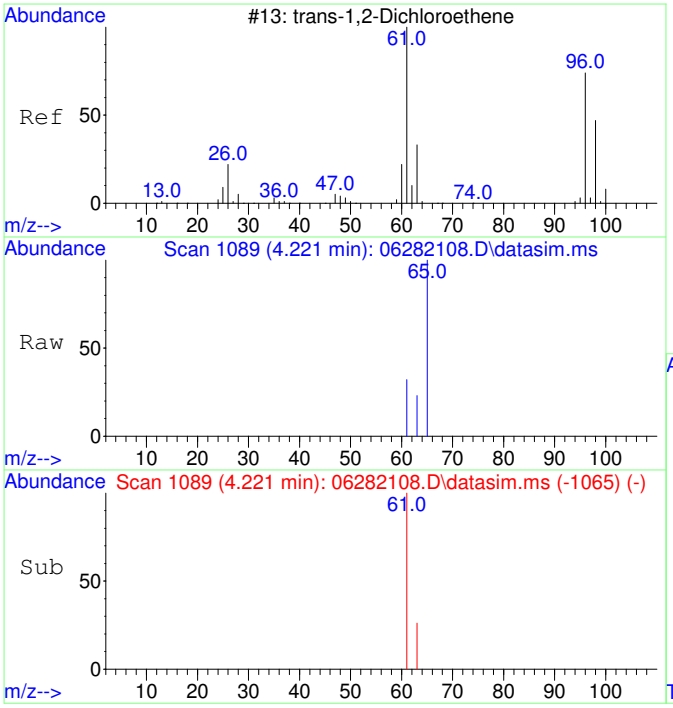


#2
1,1-Dichloroethene
Concen: 51.55 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 343

Ion	Ratio	Lower	Upper
61	100		
96	66.5	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

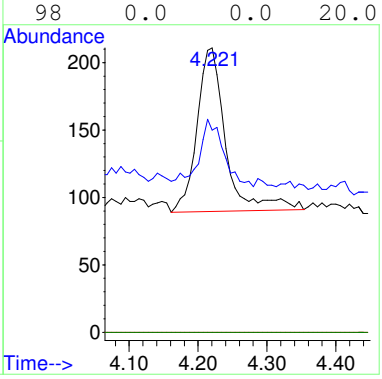


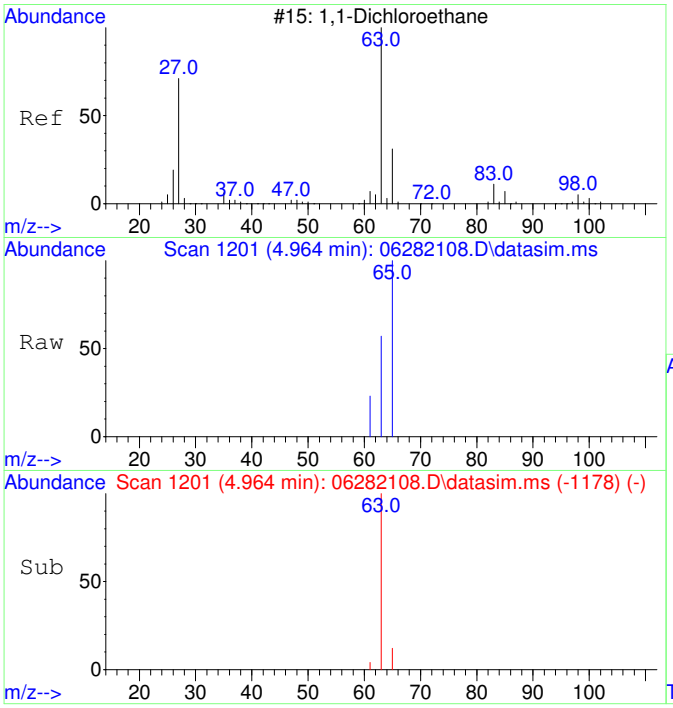


#3
trans-1,2-Dichloroethene
Concen: 61.13 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 350

Ion	Ratio	Lower	Upper
61	100		
63	35.7	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

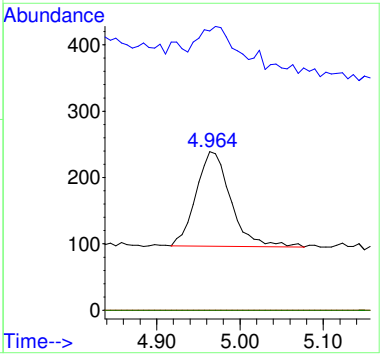


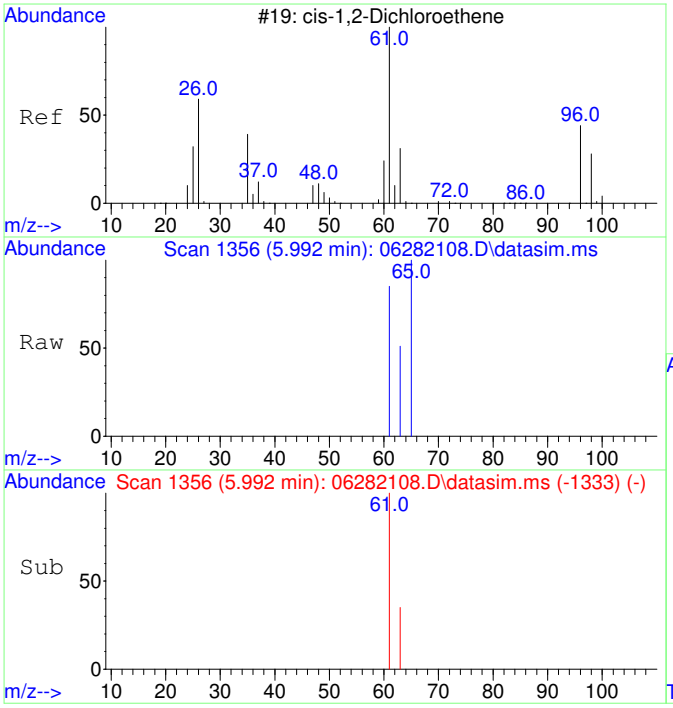


#4
1,1-Dichloroethane
Concen: 52.59 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 63 Resp: 413

Ion	Ratio	Lower	Upper
63	100		
65	46.5	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

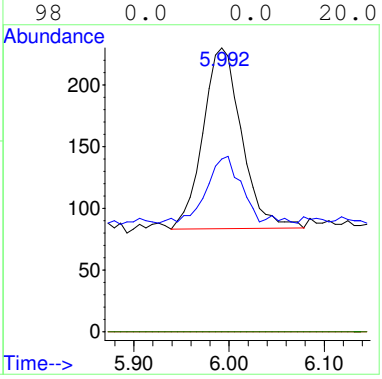


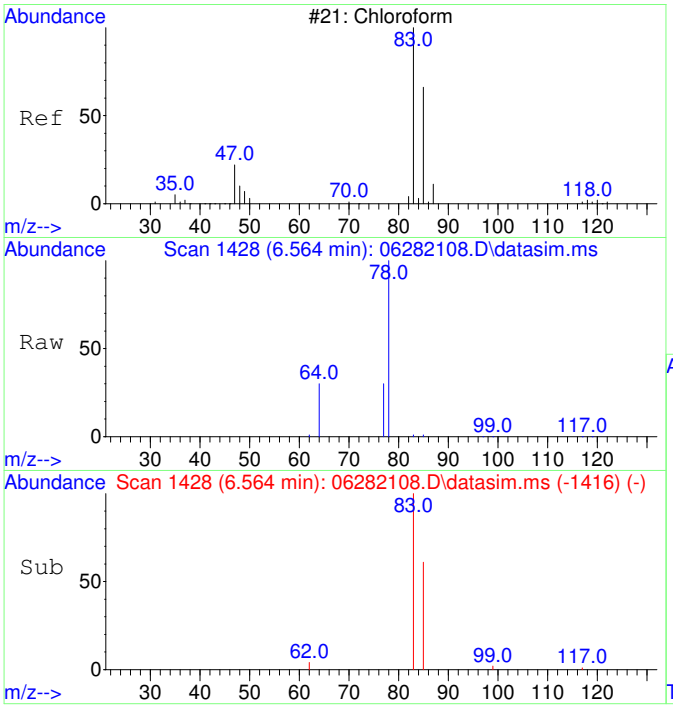


#5
cis-1,2-Dichloroethene
Concen: 55.15 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 415

Ion	Ratio	Lower	Upper
61	100		
63	33.7	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

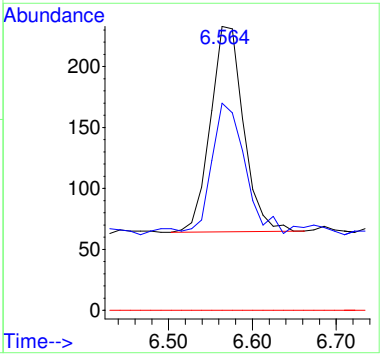


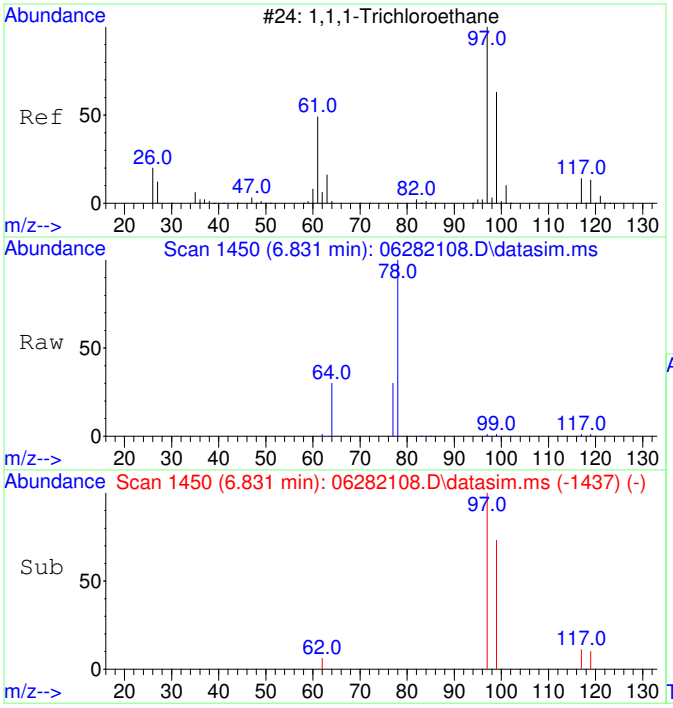


#6
Chloroform
Concen: 52.06 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 83 Resp: 461

Ion	Ratio	Lower	Upper
83	100		
85	69.0	34.5	94.5
87	0.0	0.0	20.0

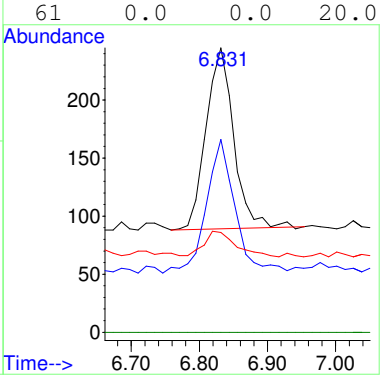


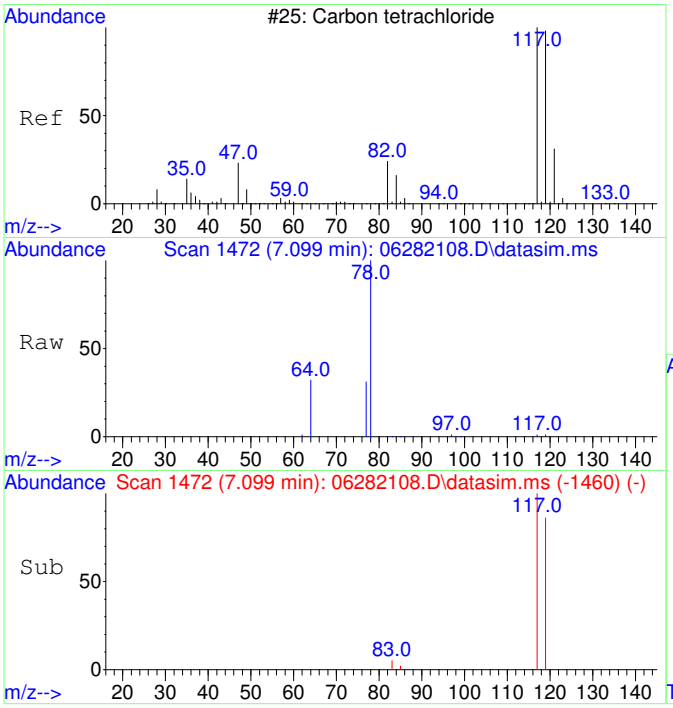


#7
1,1,1-Trichloroethane
Concen: 52.91 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 97 Resp: 436

Ion	Ratio	Lower	Upper
97	100		
99	77.1	34.4	94.4
117	16.1	0.0	42.8
61	0.0	0.0	20.0

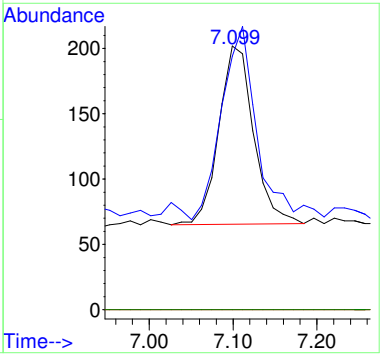


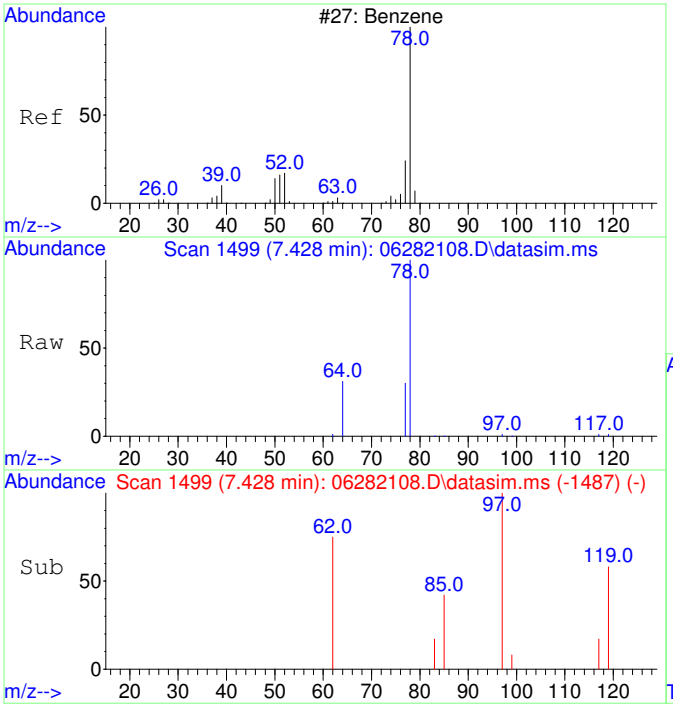


#8
Carbon tetrachloride
Concen: 54.61 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:117 Resp: 392

Ion	Ratio	Lower	Upper
117	100		
119	111.2	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

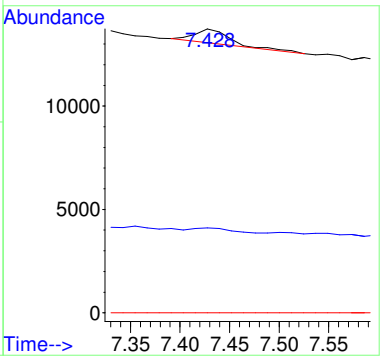


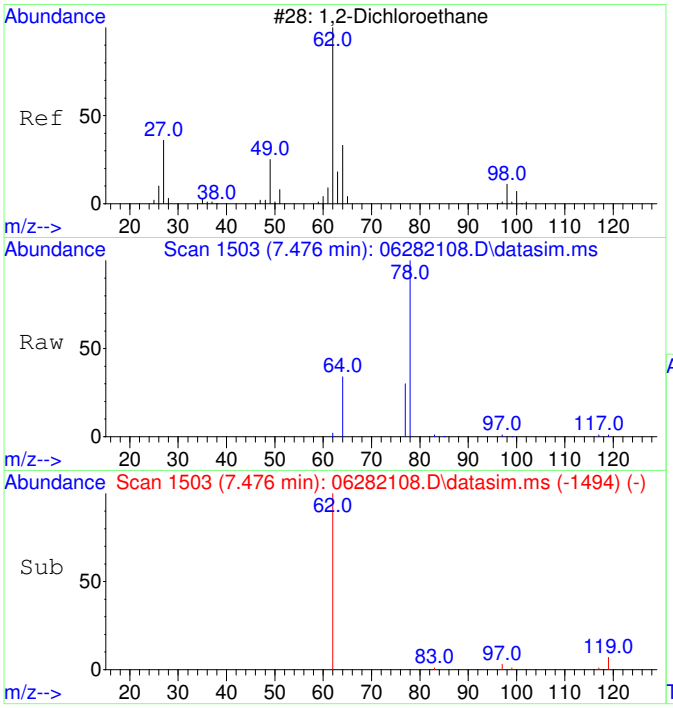


#9
Benzene
Concen: 57.88 ug/L
RT: 7.428 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 78 Resp: 1440

Ion	Ratio	Lower	Upper
78	100		
77	42.6	0.0	53.7
52	0.0	0.0	20.0

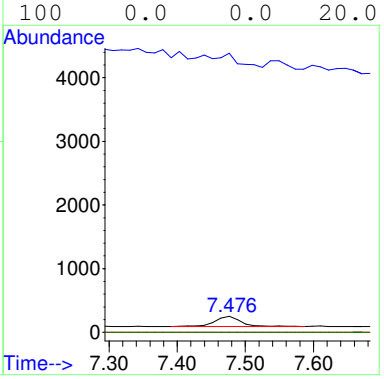


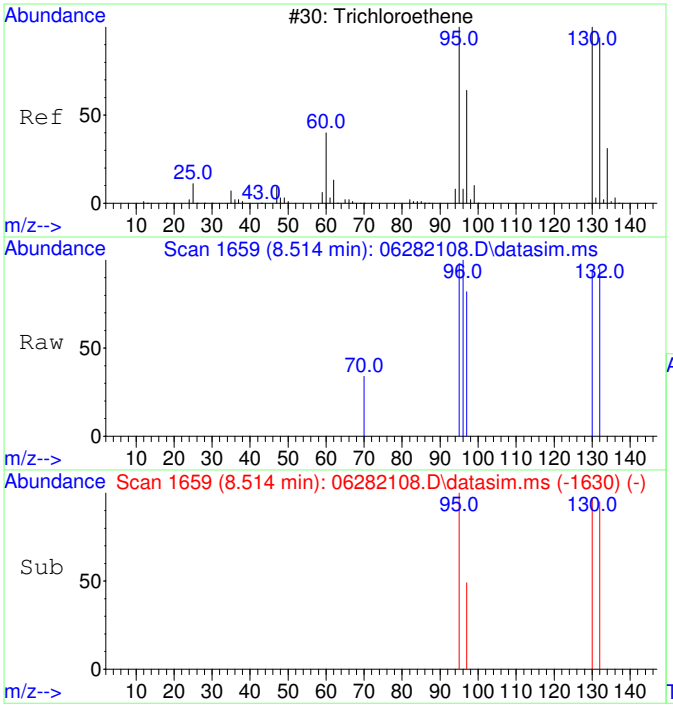


#10
1,2-Dichloroethane
Concen: 59.04 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 62 Resp: 404

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

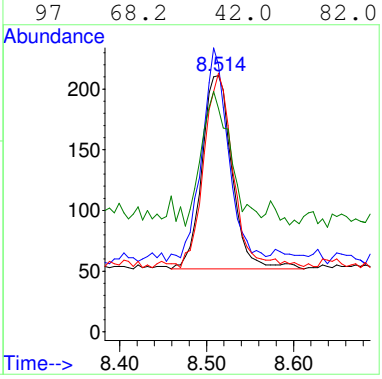


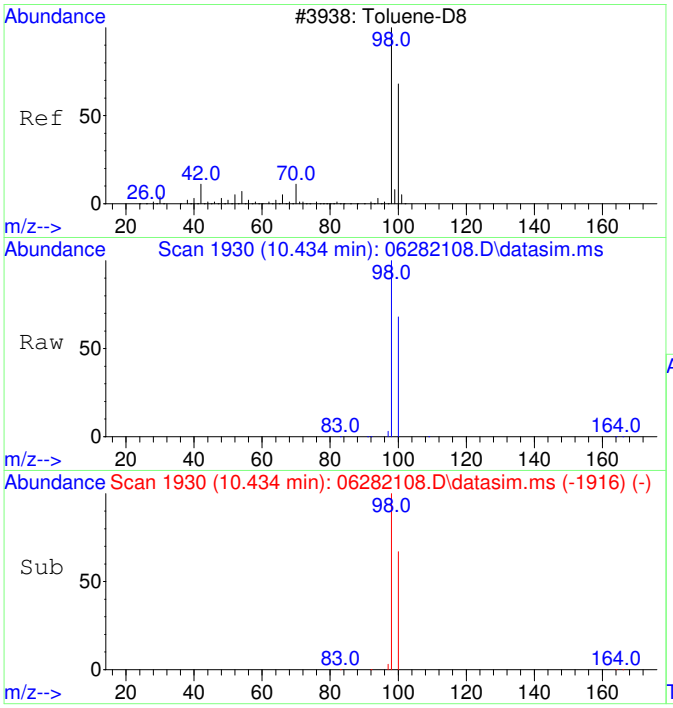


#11
Trichloroethene
Concen: 57.36 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:130 Resp: 380

Ion	Ratio	Lower	Upper
130	100		
95	102.6	65.8	125.8
132	97.4	75.8	115.8
97	68.2	42.0	82.0

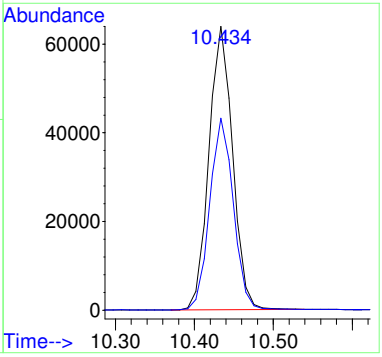


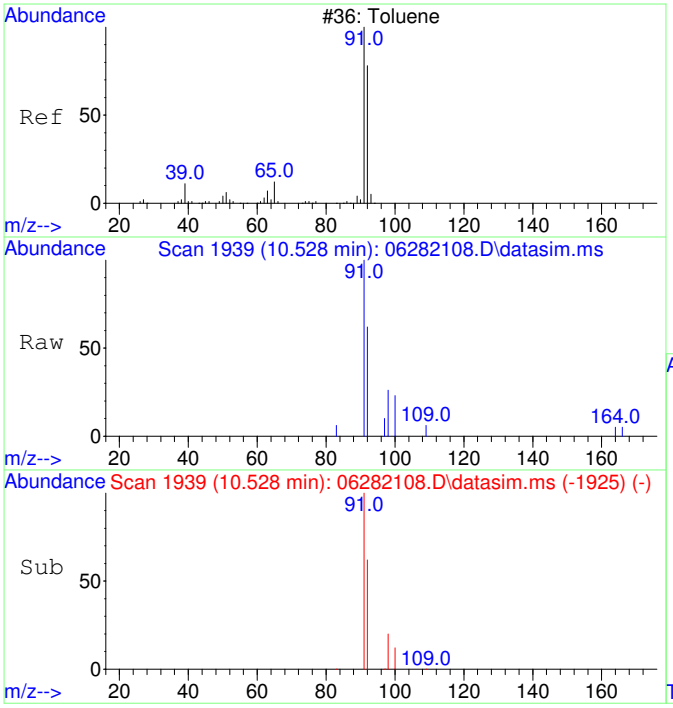


#12
Toluene-d8
Concen: 5078.86 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 98 Resp: 132889

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

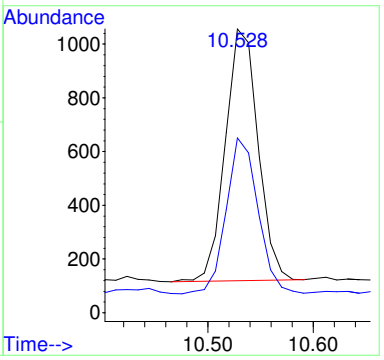


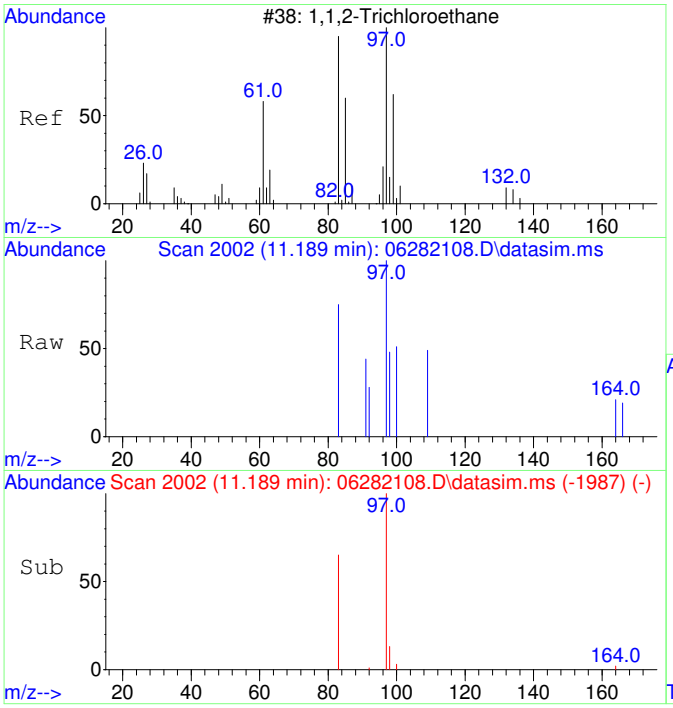


#13
Toluene
Concen: 59.57 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 2029

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.2	90.2

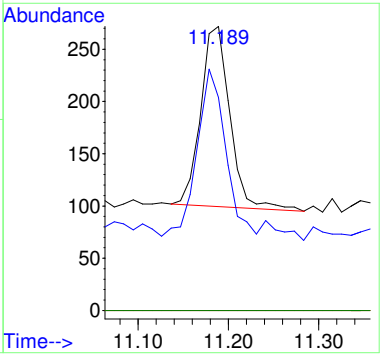


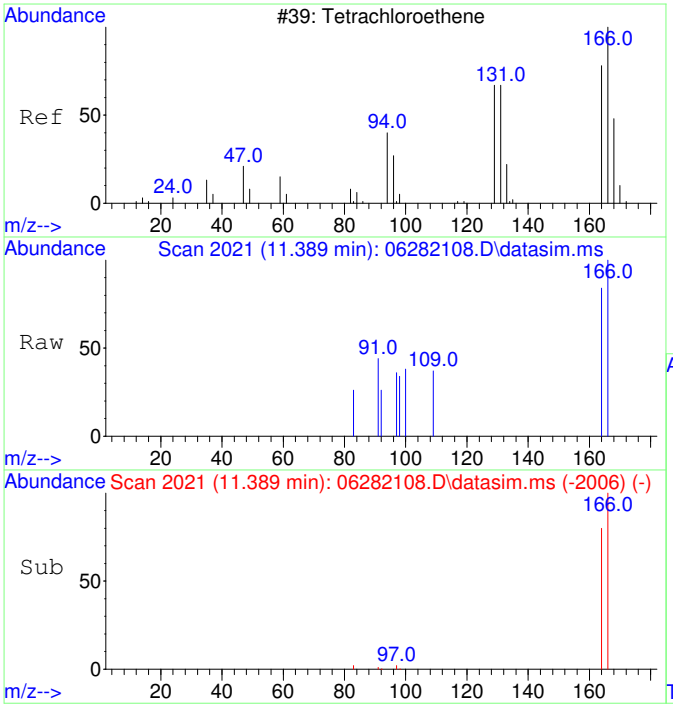


#14
1,1,2-Trichloroethane
Concen: 54.20 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 97 Resp: 384

Ion	Ratio	Lower	Upper
97	100		
83	94.0	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

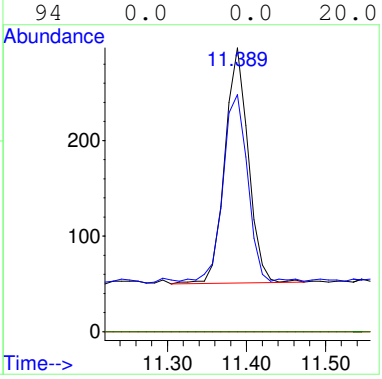


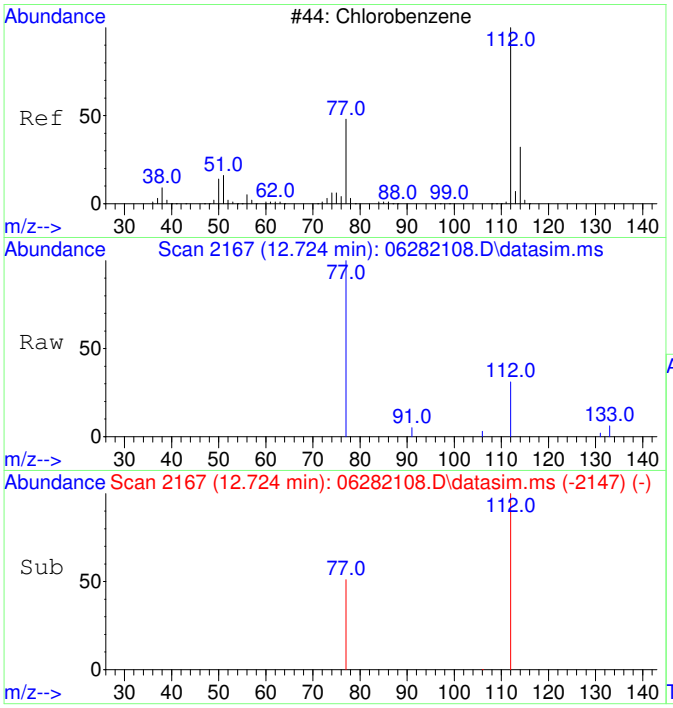


#15
Tetrachloroethene
Concen: 57.85 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:166 Resp: 504

Ion	Ratio	Lower	Upper
166	100		
164	82.7	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

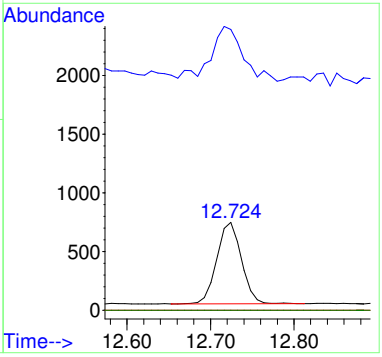


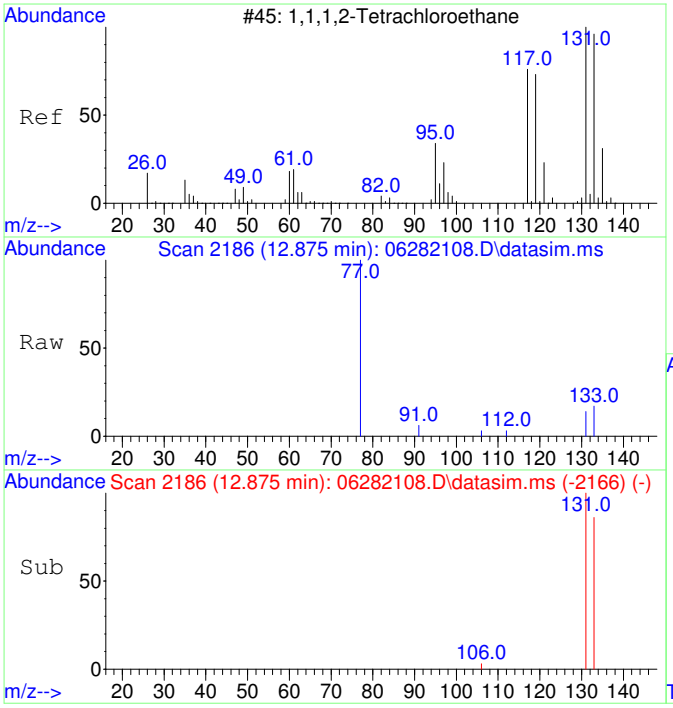


#16
Chlorobenzene
Concen: 48.28 ug/L
RT: 12.724 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:112 Resp: 1424

Ion	Ratio	Lower	Upper
112	100		
77	88.4	27.0	87.0#
114	0.0	0.0	20.0
51	0.0	0.0	20.0

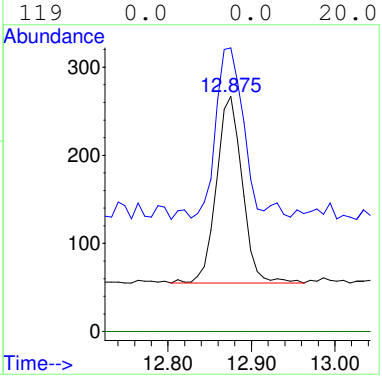


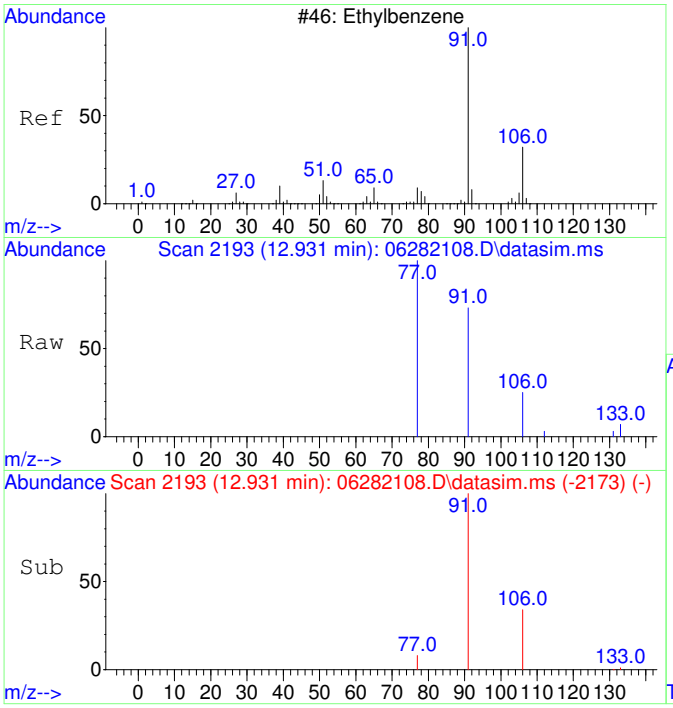


#17
1,1,1,2-Tetrachloroethane
Concen: 58.36 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:131 Resp: 458

Ion	Ratio	Lower	Upper
131	100		
133	94.5	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

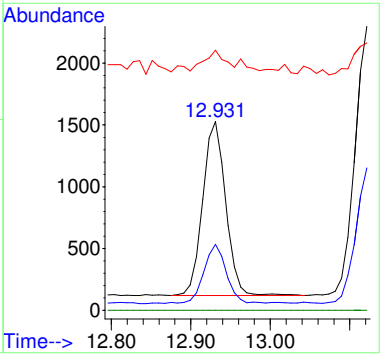


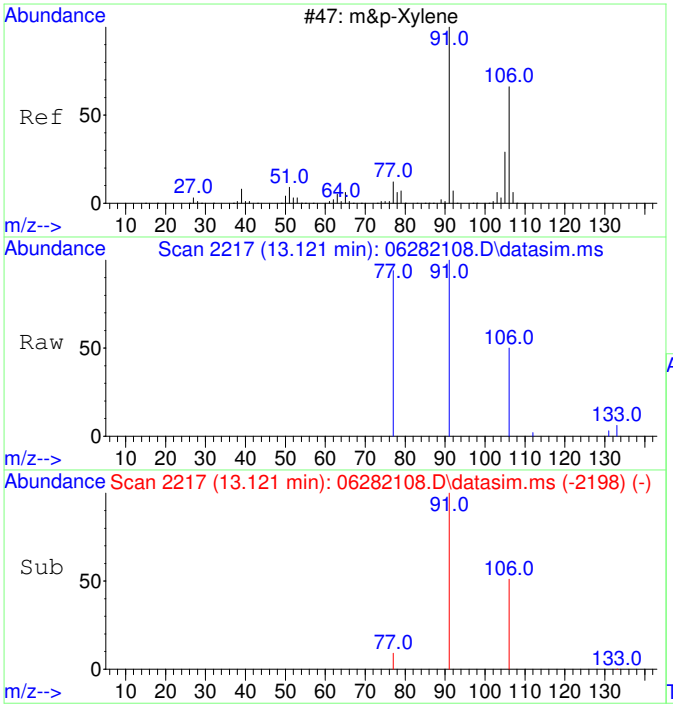


#18
Ethylbenzene
Concen: 64.65 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 2828

Ion	Ratio	Lower	Upper
91	100		
106	33.4	2.8	62.8
77	12.8	0.0	38.2
105	0.0	0.0	20.0

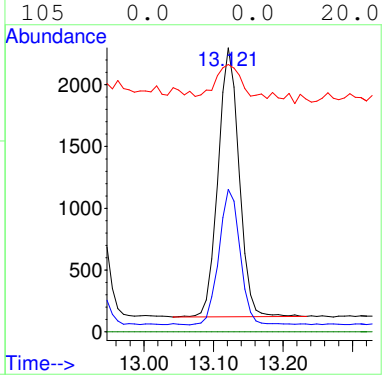


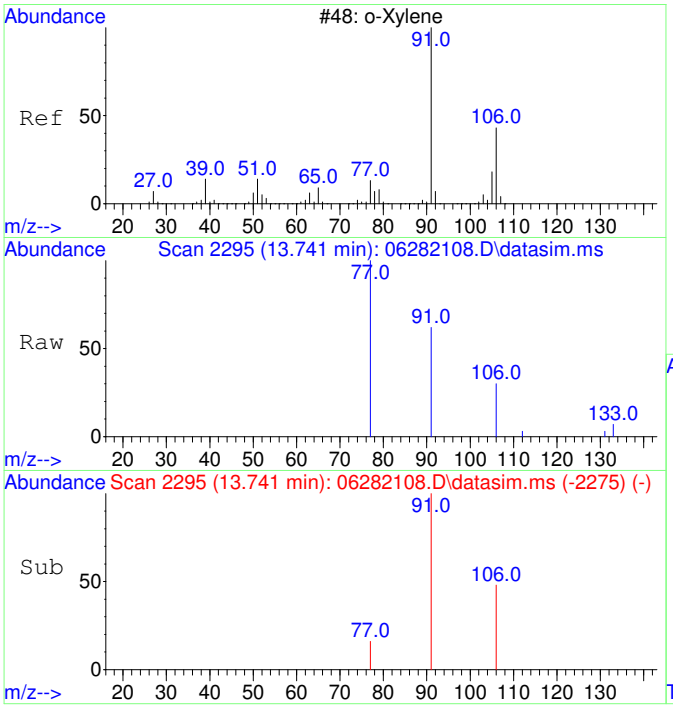


#19
m&p-Xylene
Concen: 132.48 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 4565

Ion	Ratio	Lower	Upper
91	100		
106	50.5	21.4	81.4
77	15.0	0.0	42.7
105	0.0	0.0	20.0

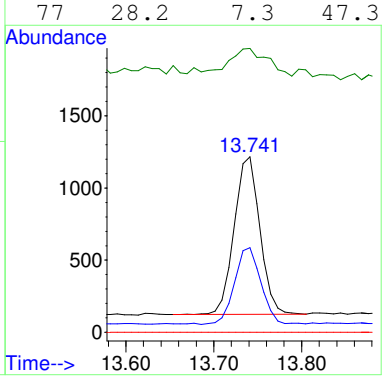


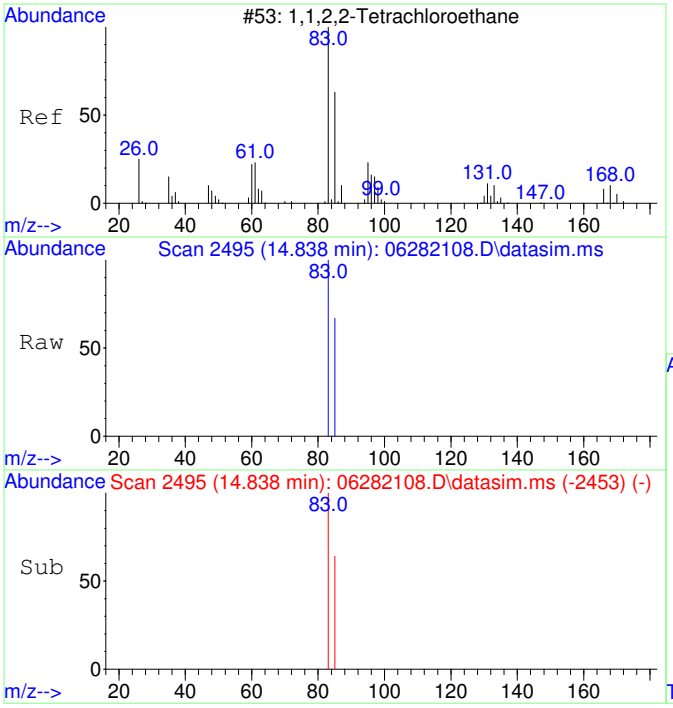


#20
o-Xylene
Concen: 59.57 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 2220

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.7	78.7
105	0.0	0.0	30.0
77	28.2	7.3	47.3

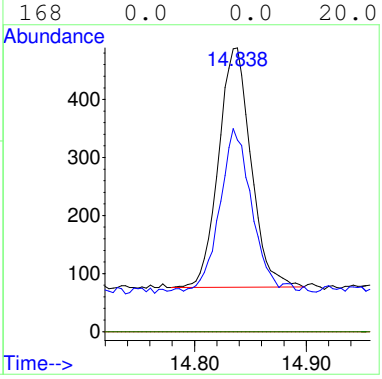


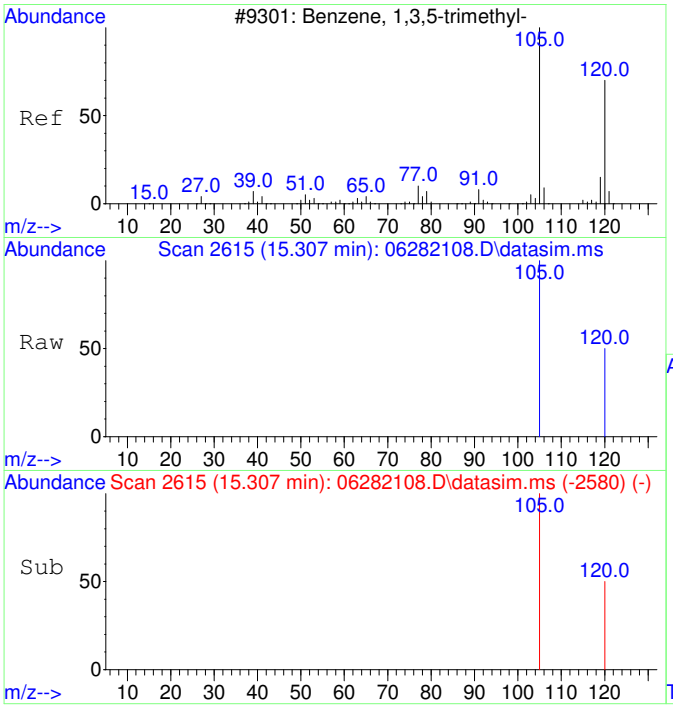


#21
1,1,2,2-Tetrachloroethane
Concen: 51.17 ug/L
RT: 14.838 min Scan# 2495
Delta R.T. 0.007 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 83 Resp: 831

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

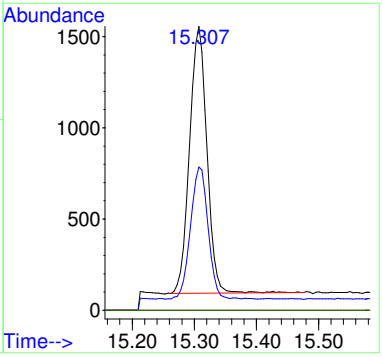


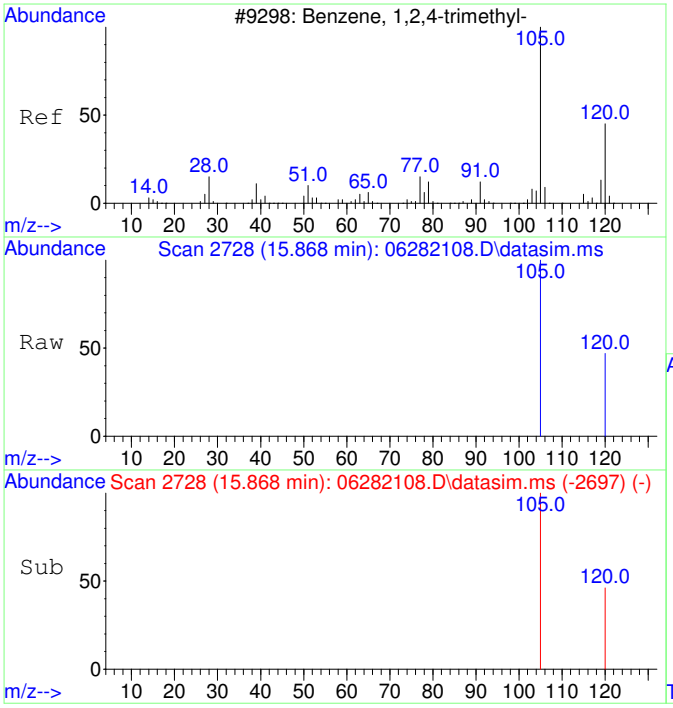


#22
1,3,5-Trimethylbenzene
Concen: 64.91 ug/L
RT: 15.307 min Scan# 2615
Delta R.T. 0.005 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:105 Resp: 2841

Ion	Ratio	Lower	Upper
105	100		
120	50.5	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

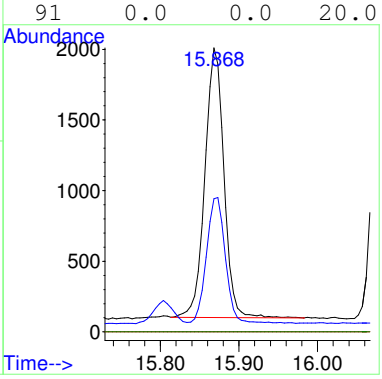


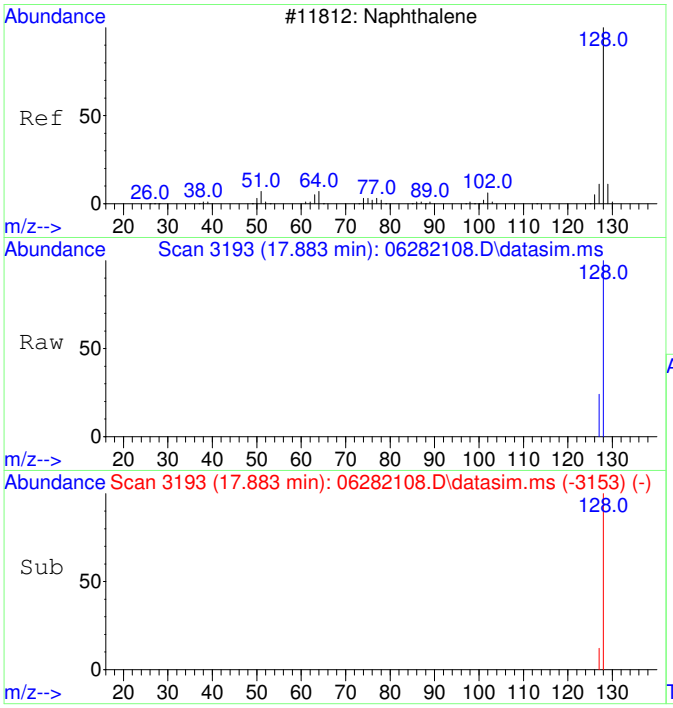


#23
1,2,4-Trimethylbenzene
Concen: 70.17 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:105 Resp: 3199

Ion	Ratio	Lower	Upper
105	100		
120	45.8	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

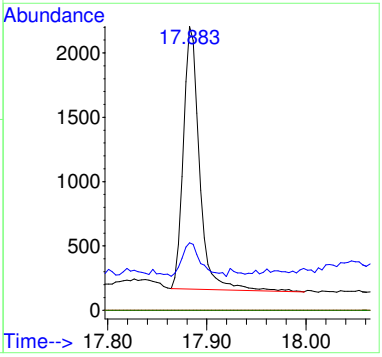


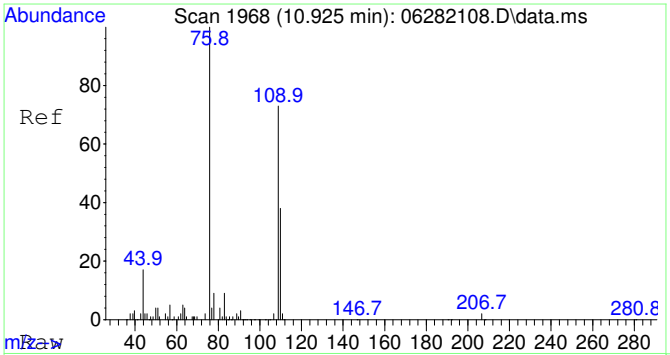


#24
Naphthalene
Concen: 27.03 ug/L
RT: 17.883 min Scan# 3193
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:128 Resp: 2302

Ion	Ratio	Lower	Upper
128	100		
127	14.5	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

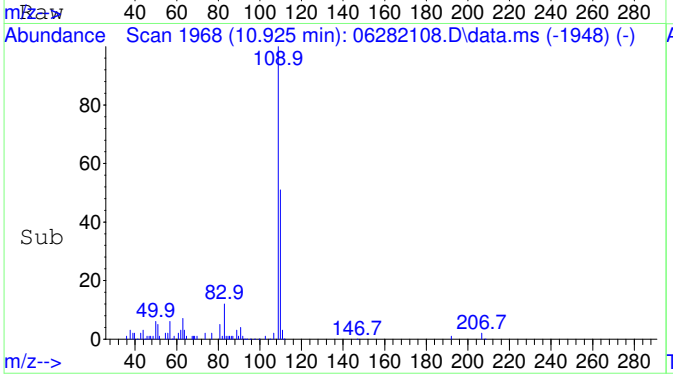


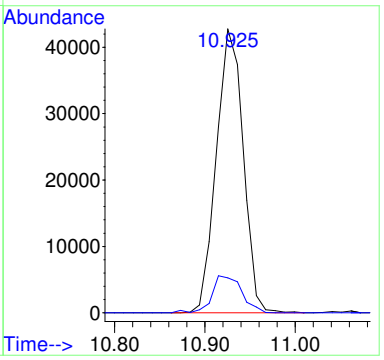


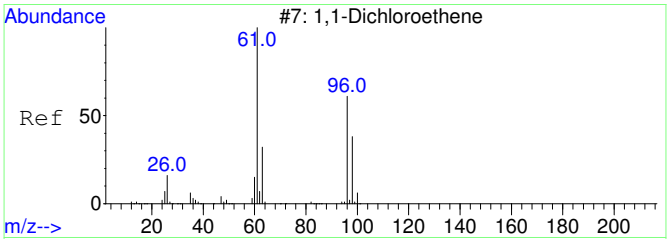
#25
2-Fluorotoluene SCAN
Concen: 4713.31 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:109 Resp: 88617

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	44.5



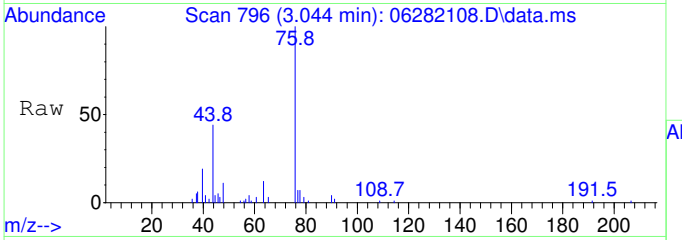


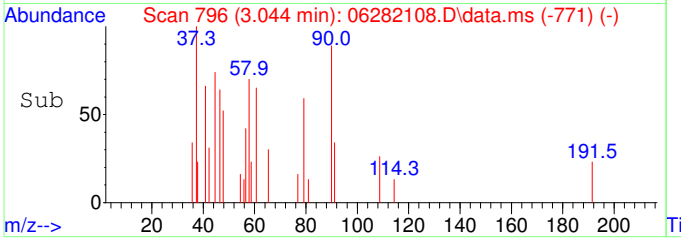


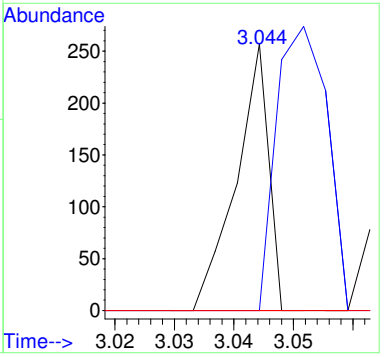
#26
1,1-Dichloroethene SCAN
Concen: 24.43 ug/L
RT: 3.044 min Scan# 796
Delta R.T. -0.007 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

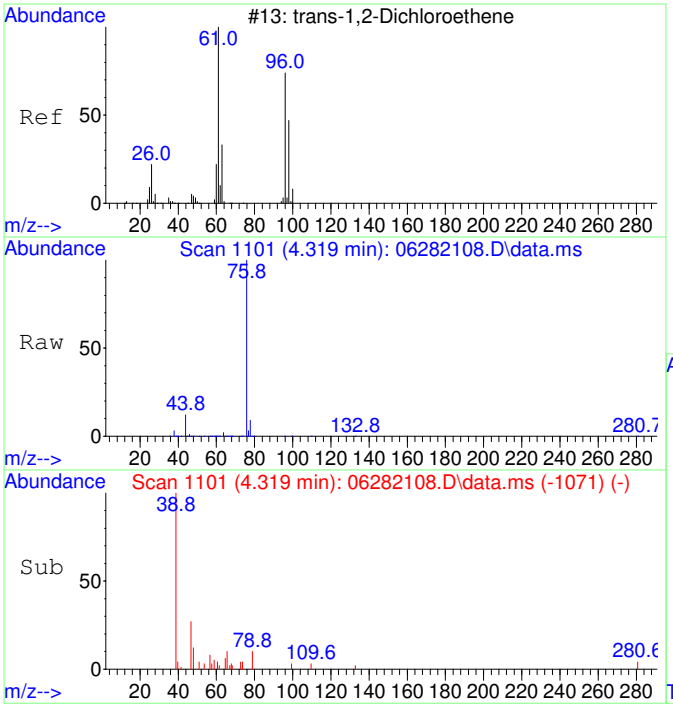
Tgt Ion: 61 Resp: 97

Ion	Ratio	Lower	Upper
61	100		
96	167.0	33.0	93.0#
98	0.0	12.5	72.5#





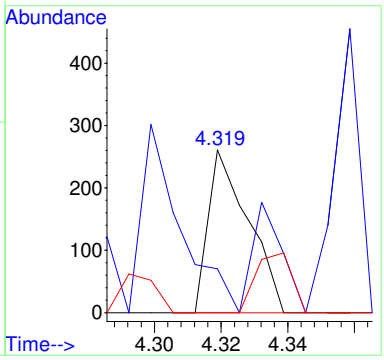


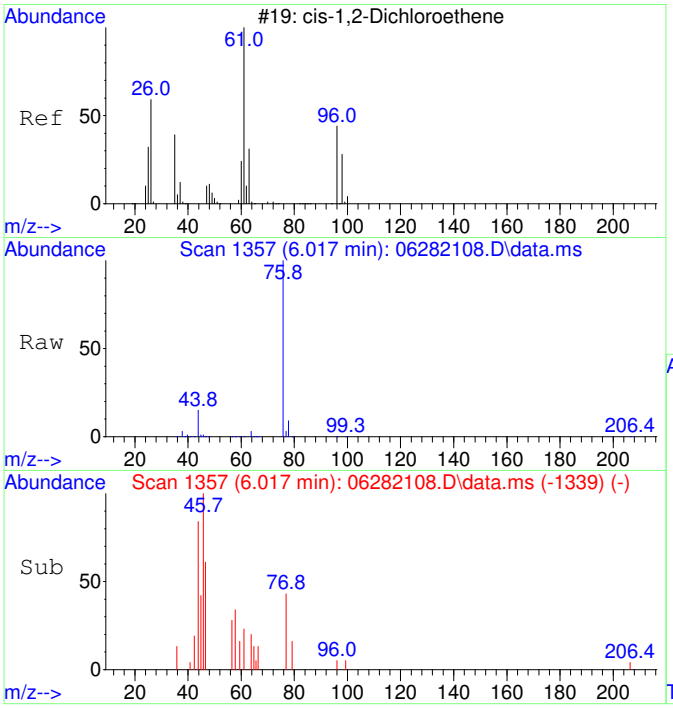


#27
trans-1,2-Dichloroethene SCAN
Concen: 50.51 ug/L
RT: 4.319 min Scan# 1101
Delta R.T. 0.100 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 217

Ion	Ratio	Lower	Upper
61	100		
96	49.8	49.3	109.3
98	33.2	24.0	84.0

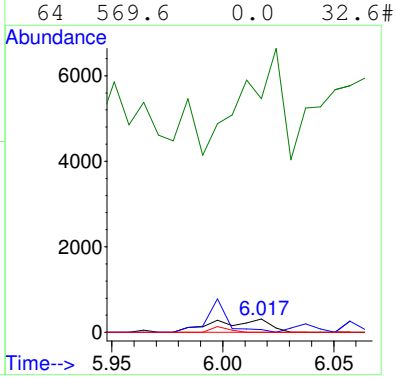


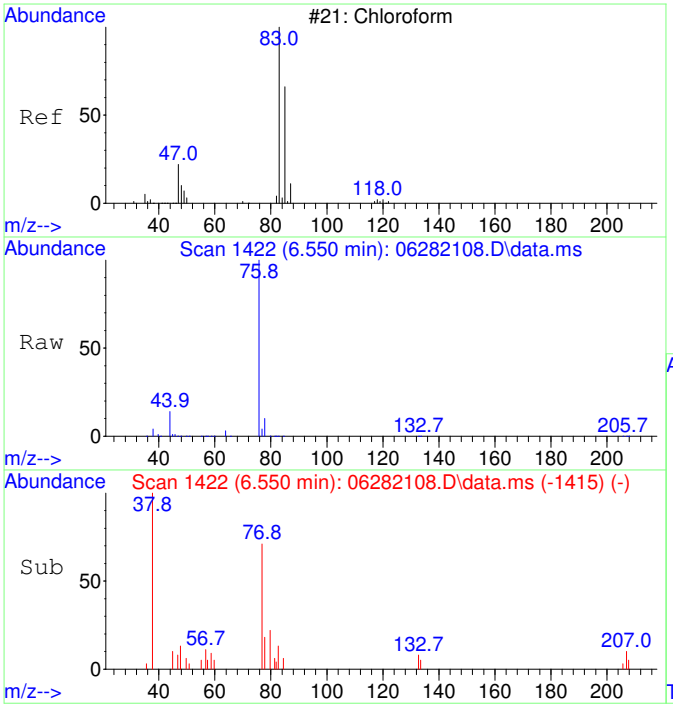


#29
cis-1,2-Dichloroethene SCAN
Concen: 90.04 ug/L
RT: 6.017 min Scan# 1357
Delta R.T. 0.020 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 523

Ion	Ratio	Lower	Upper
61	100		
96	28.3	36.9	96.9#
98	0.0	12.1	72.1#
64	569.6	0.0	32.6#

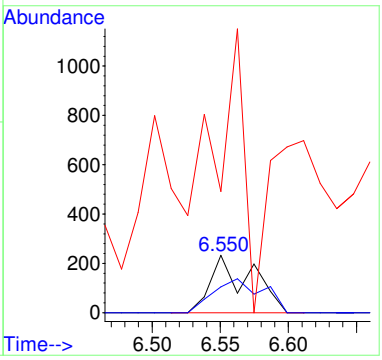


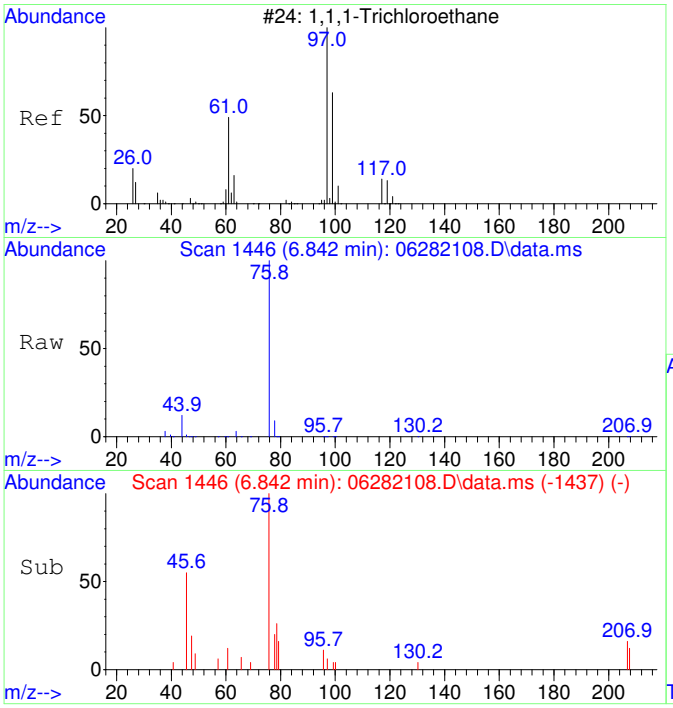


#30
Chloroform SCAN
Concen: 78.46 ug/L
RT: 6.550 min Scan# 1422
Delta R.T. -0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 83 Resp: 482

Ion	Ratio	Lower	Upper
83	100		
85	72.6	27.1	87.1
47	251.2	7.5	67.5#

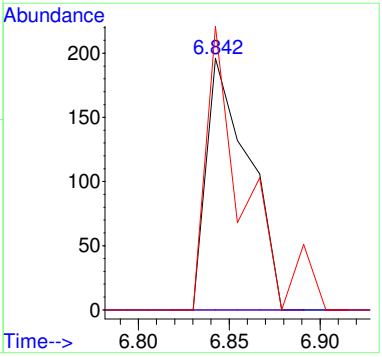


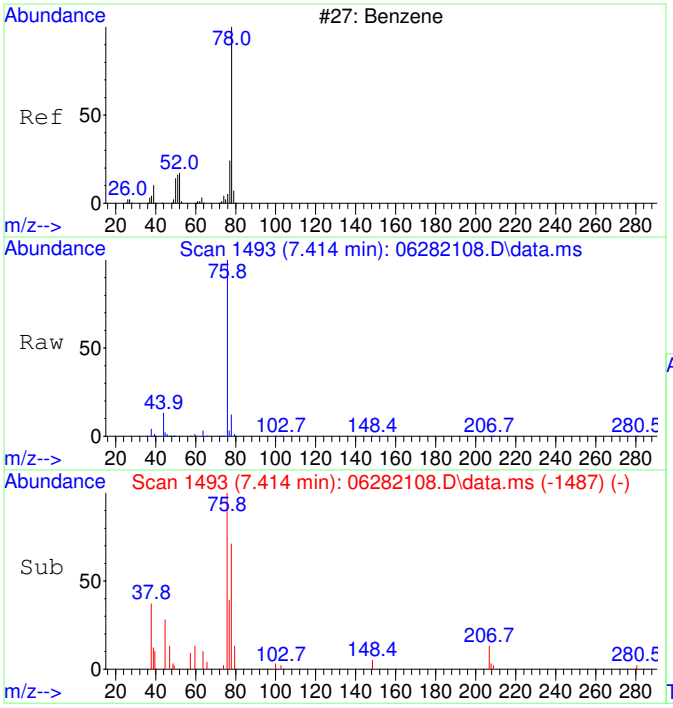


#31
1,1,1-Trichloroethane SCAN
Concen: 55.23 ug/L
RT: 6.842 min Scan# 1446
Delta R.T. 0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 97 Resp: 317

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	101.9	11.4	71.4#

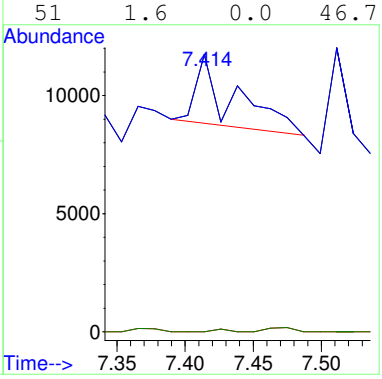


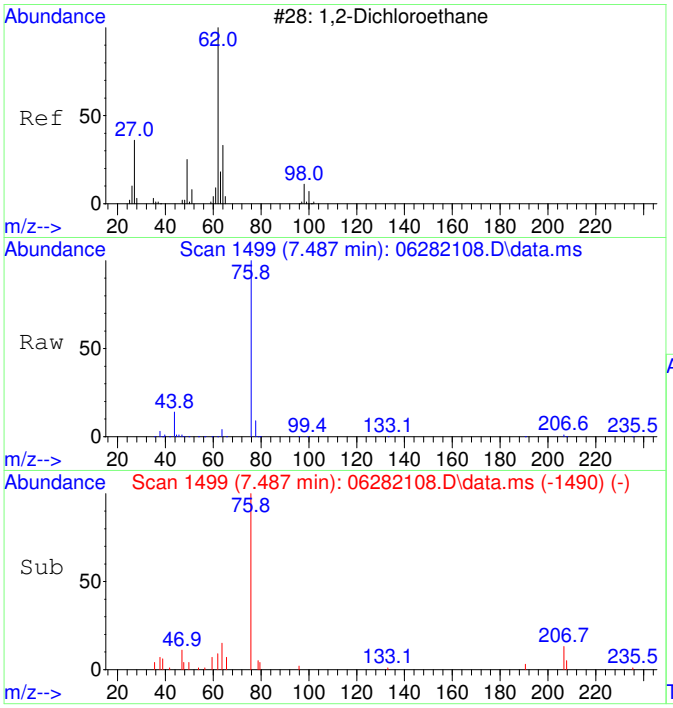


#33
Benzene SCAN
Concen: 372.36 ug/L
RT: 7.414 min Scan# 1493
Delta R.T. -0.024 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 78 Resp: 5366

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.6	0.0	46.7
51	1.6	0.0	46.7

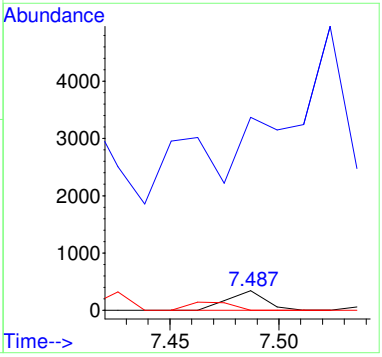


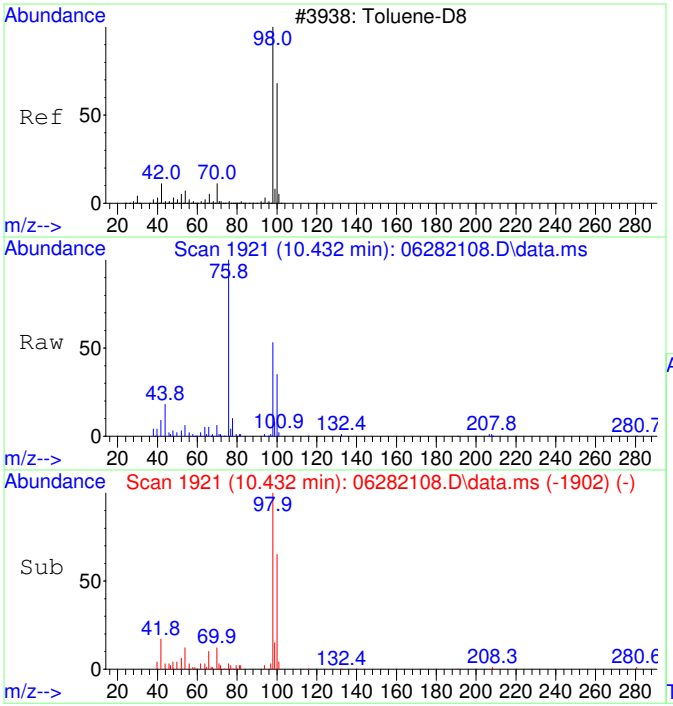


#34
1,2-Dichloroethane SCAN
Concen: 91.78 ug/L
RT: 7.487 min Scan# 1499
Delta R.T. 0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 62 Resp: 417

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

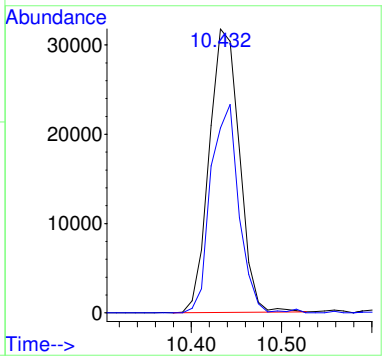


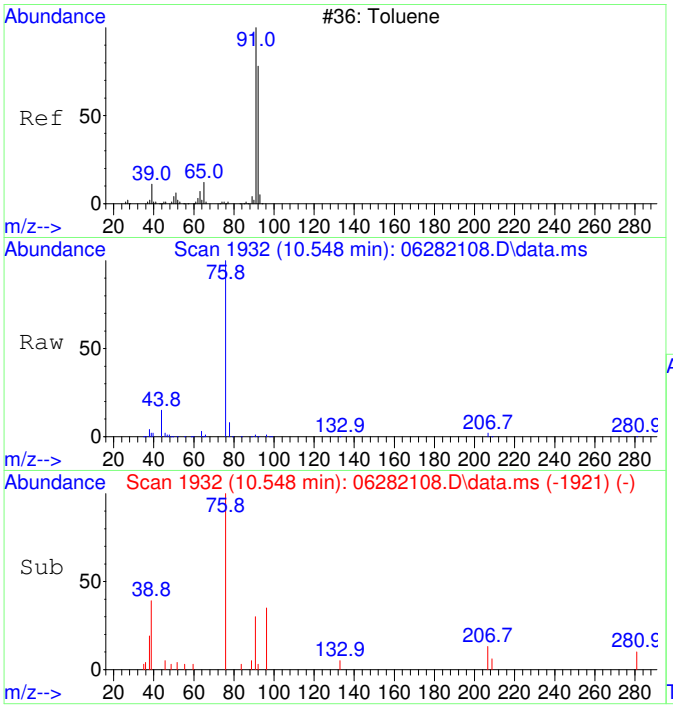


#36
Toluene-d8 SCAN
Concen: 4540.68 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 98 Resp: 74045

Ion	Ratio	Lower	Upper
98	100		
100	68.5	36.1	96.1

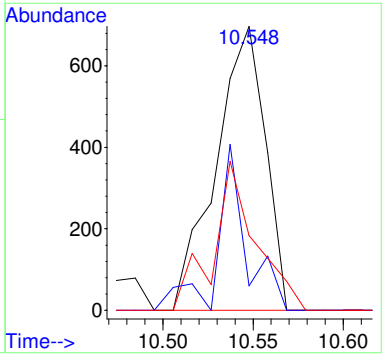


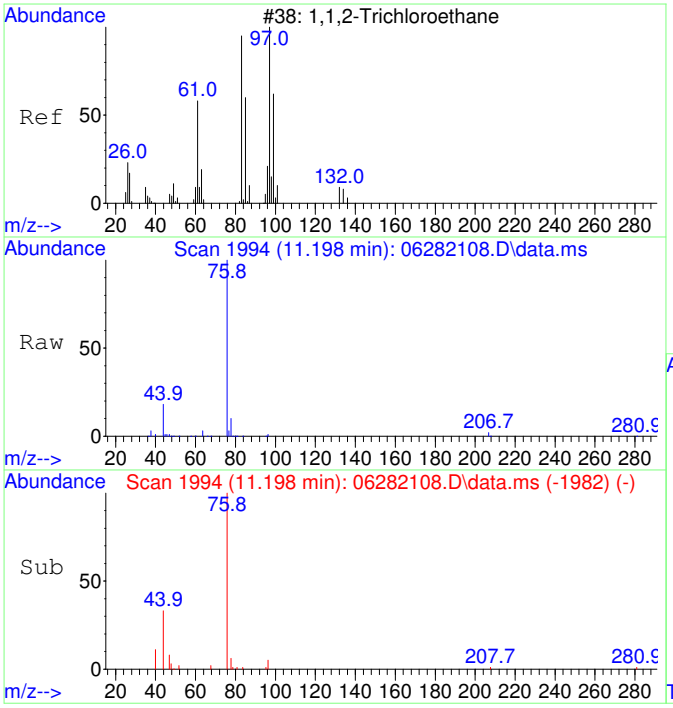


#37
Toluene SCAN
Concen: 63.06 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 1331

Ion	Ratio	Lower	Upper
91	100		
92	34.1	26.5	86.5
65	45.0	0.0	40.6#

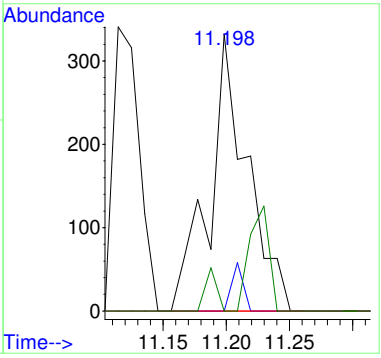


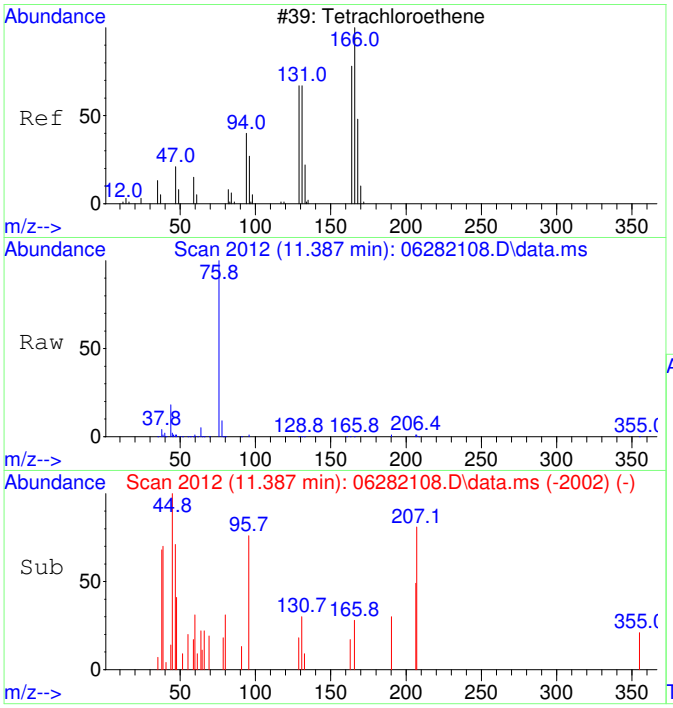


#38
1,1,2-Trichloroethane SCAN
Concen: 137.64 ug/L
RT: 11.198 min Scan# 1994
Delta R.T. 0.021 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 97 Resp: 692

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

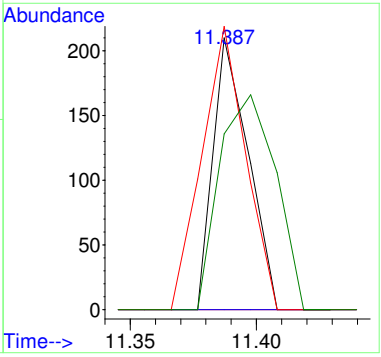


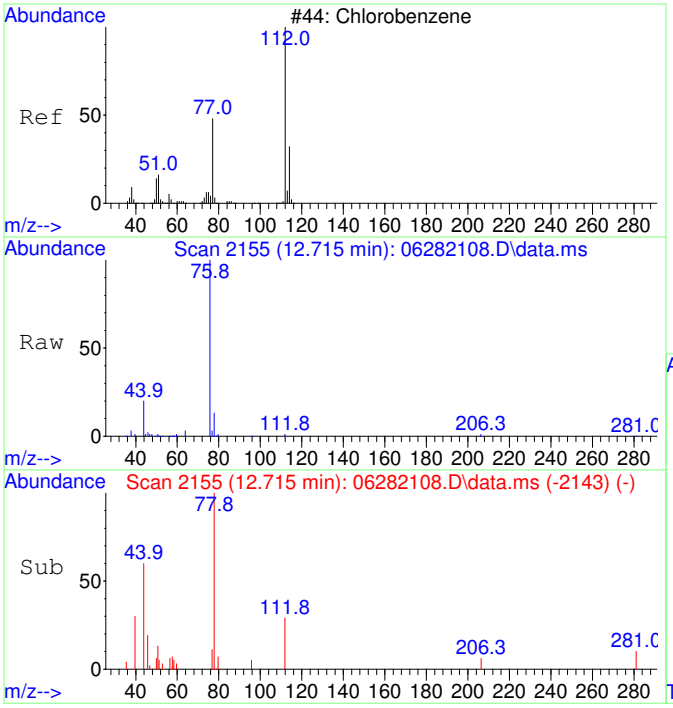


#39
Tetrachloroethene SCAN
Concen: 39.94 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:166 Resp: 203

Ion	Ratio	Lower	Upper
166	100		
164	0.0	53.9	113.9#
131	129.6	45.6	105.6#
129	126.6	51.3	111.3#

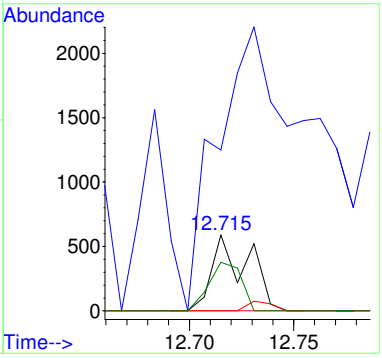


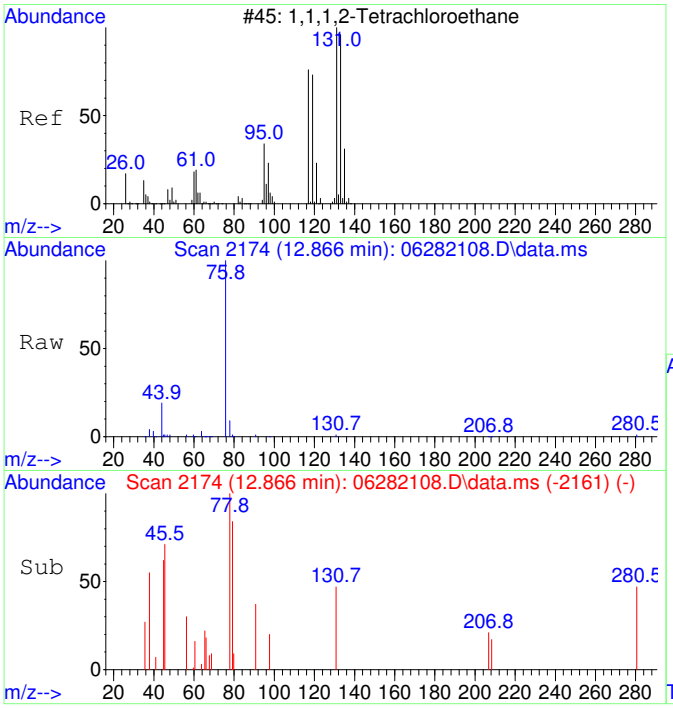


#40
Chlorobenzene SCAN
Concen: 45.06 ug/L
RT: 12.715 min Scan# 2155
Delta R.T. -0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:112 Resp: 709

Ion	Ratio	Lower	Upper
112	100		
77	1083.5	48.5	108.5#
114	8.6	4.9	64.9
51	57.5	0.0	53.6#

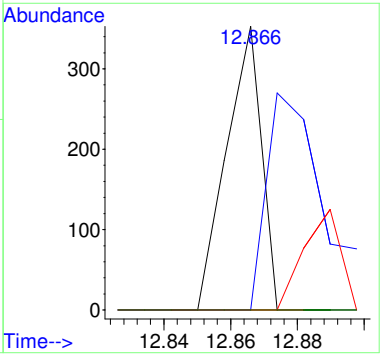


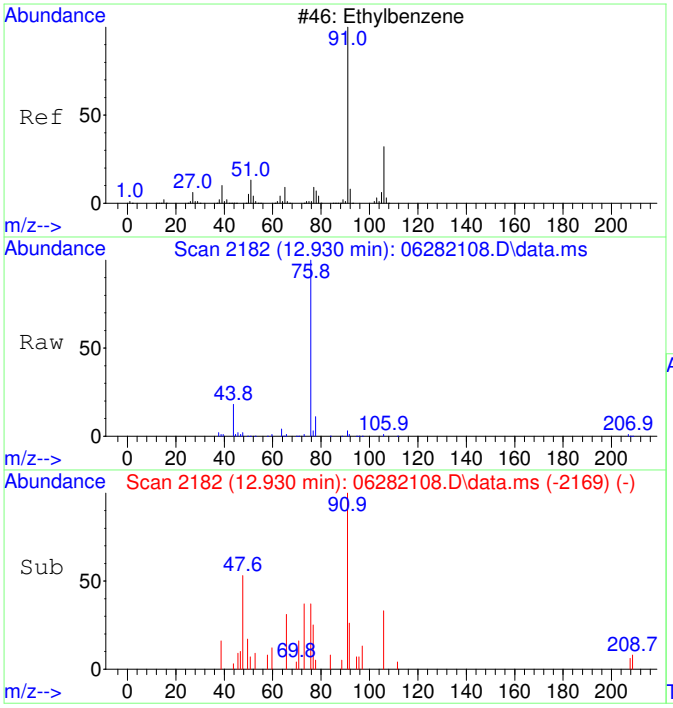


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 55.01 ug/L
RT: 12.866 min Scan# 2174
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:131 Resp: 257

Ion	Ratio	Lower	Upper
131	100		
133	94.9	61.4	121.4
119	0.0	33.6	93.6#
117	0.0	39.6	99.6#

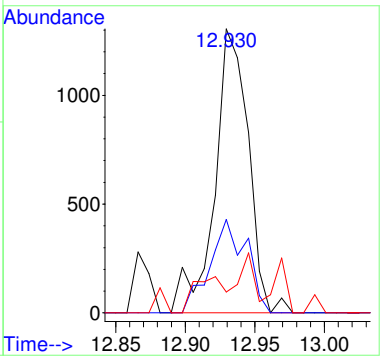


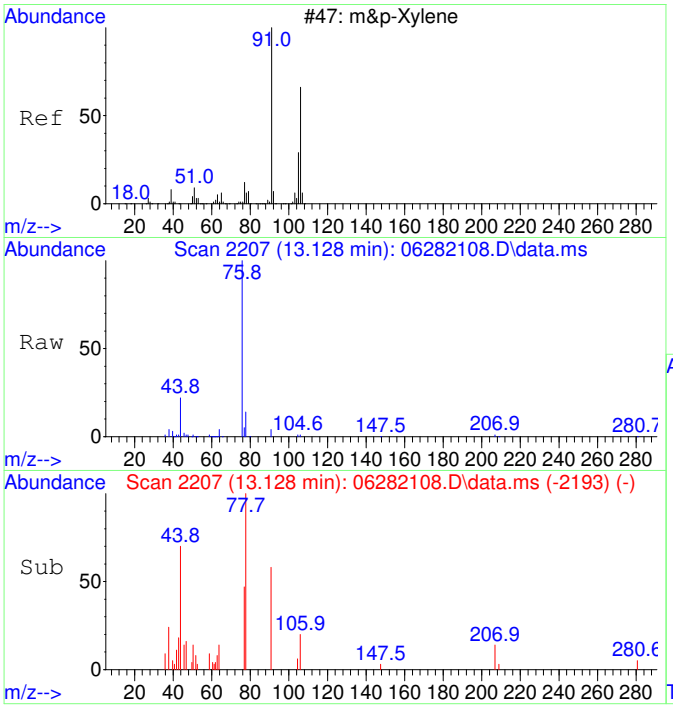


#42
Ethylbenzene SCAN
Concen: 78.23 ug/L
RT: 12.930 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 2201

Ion	Ratio	Lower	Upper
91	100		
106	35.9	0.5	60.5
51	7.8	0.0	39.6

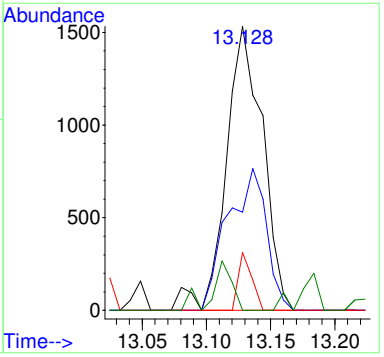


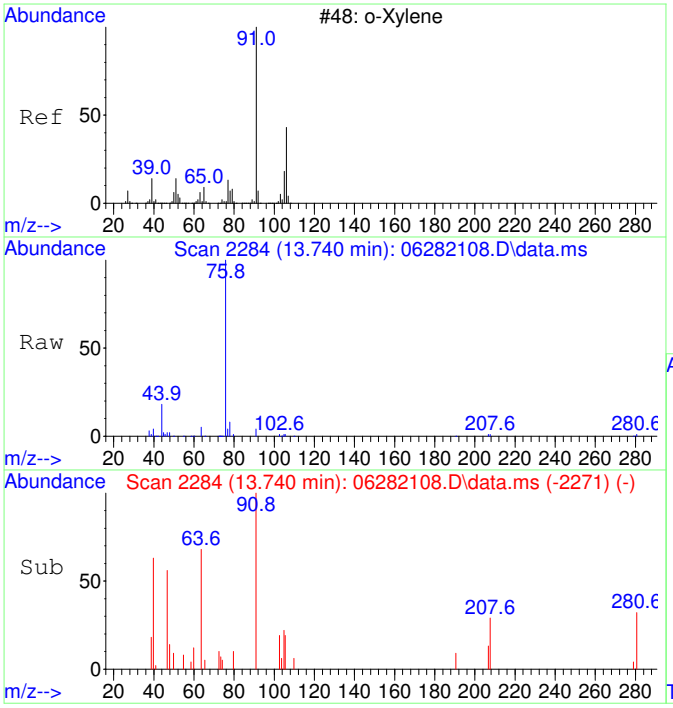


#43
m&p-Xylene SCAN
Concen: 72.09 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 3026

Ion	Ratio	Lower	Upper
91	100		
106	52.7	21.2	81.2
105	7.5	0.0	51.6
51	0.0	0.0	41.7

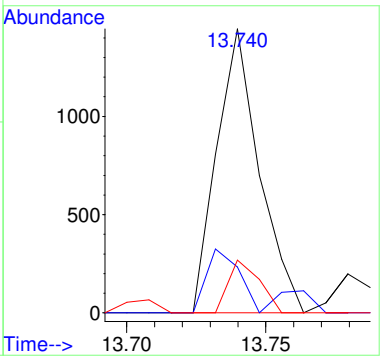


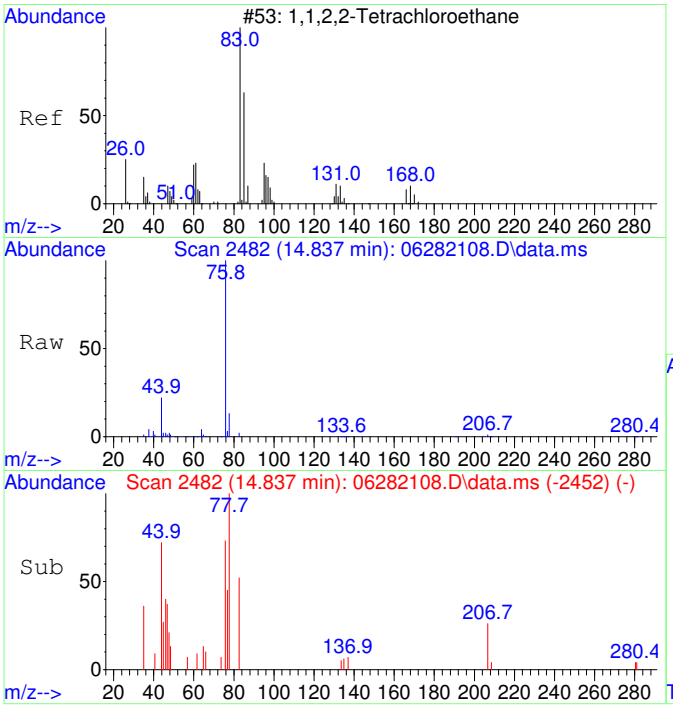


#44
o-Xylene SCAN
Concen: 66.57 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 1537

Ion	Ratio	Lower	Upper
91	100		
106	24.1	19.1	79.1
105	13.7	0.0	55.6

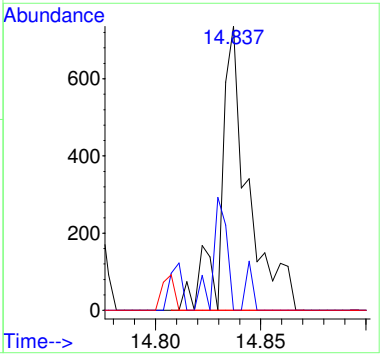


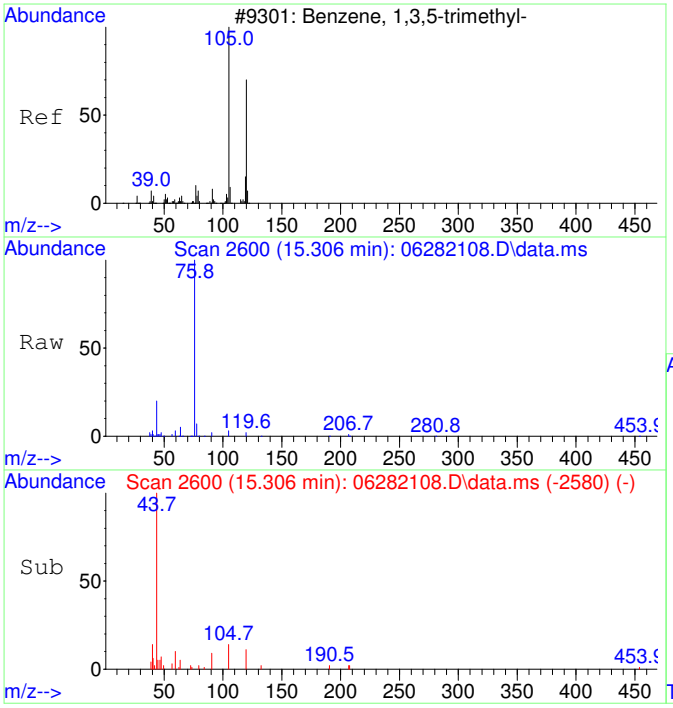


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 58.21 ug/L
RT: 14.837 min Scan# 2482
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 83 Resp: 657

Ion	Ratio	Lower	Upper
83	100		
85	20.5	34.1	94.1#
95	0.0	0.0	46.2

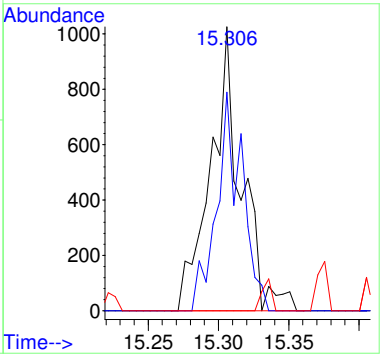


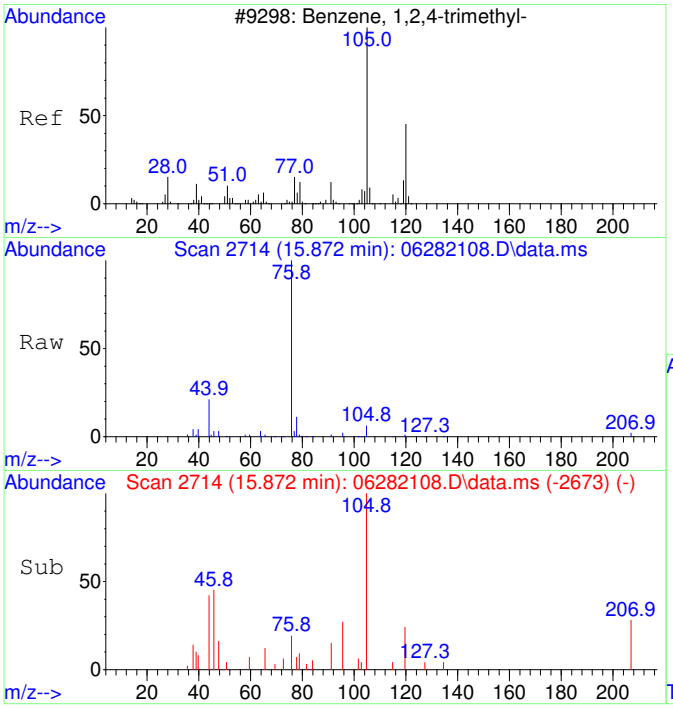


#46
1,3,5-Trimethylbenzene SCAN
Concen: 61.19 ug/L
RT: 15.306 min Scan# 2600
Delta R.T. 0.005 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:105 Resp: 1551

Ion	Ratio	Lower	Upper
105	100		
120	63.8	20.2	80.2
119	0.0	0.0	43.8

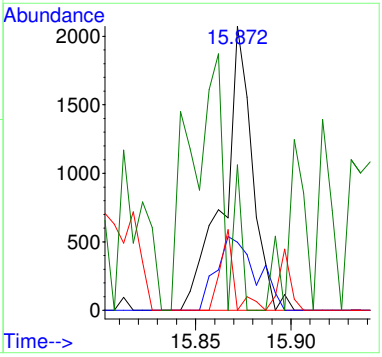


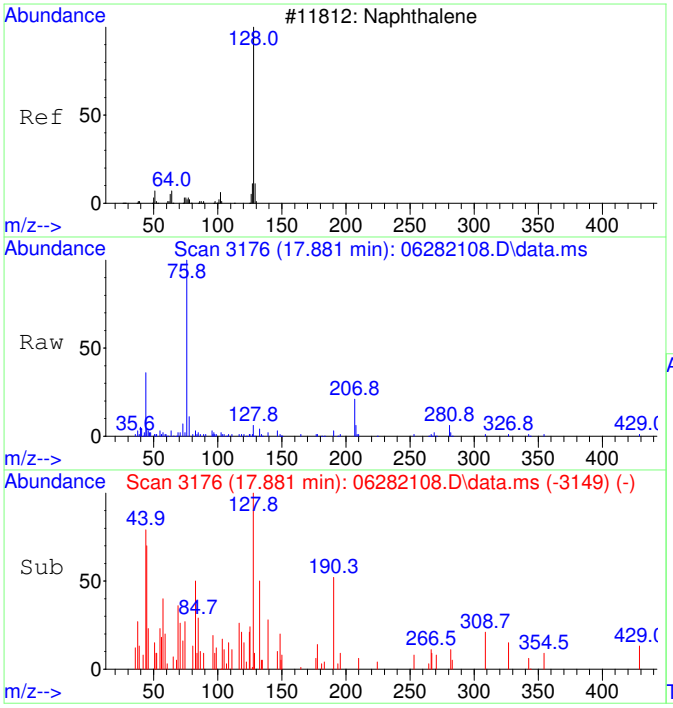


#47
1,2,4-Trimethylbenzene SCAN
Concen: 82.78 ug/L
RT: 15.872 min Scan# 2714
Delta R.T. 0.005 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:105 Resp: 2173

Ion	Ratio	Lower	Upper
105	100		
120	36.1	15.6	75.6
119	13.8	0.0	38.2
77	110.4	0.0	44.0#

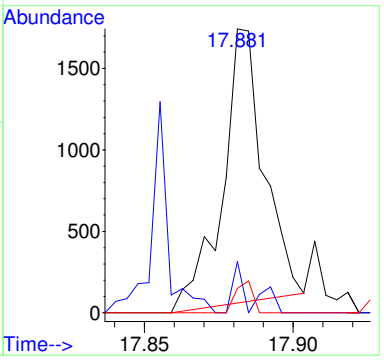




#48
Naphthalene SCAN
Concen: 33.87 ug/L
RT: 17.881 min Scan# 3176
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:128 Resp: 1621

Ion	Ratio	Lower	Upper
128	100		
127	8.1	0.0	41.1
129	4.8	0.0	39.5



2106037-01

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282109.D
Acq On : 28 Jun 2021 12:28
InstName : AG5975C
Operator : TD
Sample : 2106037-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 28 13:54:56 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

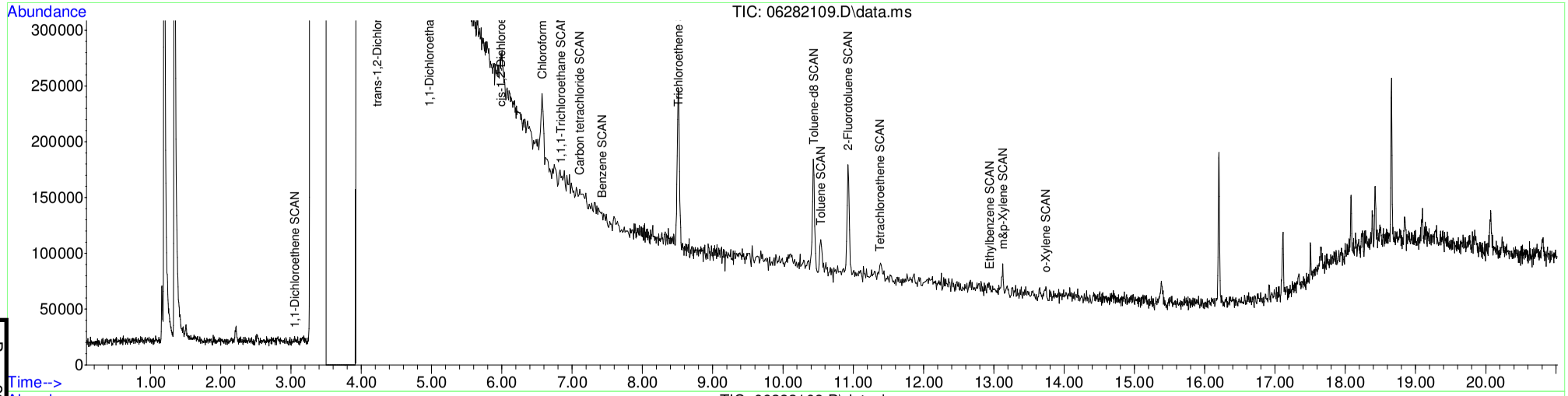
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	145158	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	125338	5040.88 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.82%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.049	61	2582	408.39 ug/L #	99
3] trans-1,2-Dichloroethene	4.214	61	1453	267.04 ug/L #	98
4] 1,1-Dichloroethane	4.964	63	2479	332.19 ug/L #	87
5] cis-1,2-Dichloroethene	5.992	61	27027	3779.72 ug/L #	100
6] Chloroform	6.564	83	95618	11362.15 ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	1514	193.35 ug/L #	98
8] Carbon tetrachloride	7.099	117	811	118.89 ug/L #	98
11] Trichloroethene	8.514	130	96494	15326.85 ug/L	98
13] Toluene	10.528	91	38520	1190.18 ug/L	99
15] Tetrachloroethene	11.388	166	7081	855.27 ug/L #	100
18] Ethylbenzene	12.931	91	7056	169.76 ug/L #	98
19] m&p-Xylene	13.121	91	21802	665.83 ug/L #	98
20] o-Xylene	13.741	91	6523	184.19 ug/L #	92
23] 1,2,4-Trimethylbenzene	15.868	105	1111	25.64 ug/L #	82
25) 2-Fluorotoluene SCAN	10.925	109	81713	4573.47 ug/L	97
26) 1,1-Dichloroethene SCAN	3.048	61	370	98.05 ug/L #	1
27) trans-1,2-Dichloroethe...	4.226	61	586	143.54 ug/L	73
28) 1,1-Dichloroethane SCAN	4.969	63	854	156.09 ug/L #	53
29) cis-1,2-Dichloroethene...	5.991	61	18838	3412.80 ug/L	86
30) Chloroform SCAN	6.575	83	62859	10768.01 ug/L	91
31) 1,1,1-Trichloroethane ...	6.842	97	768	140.81 ug/L #	49
32) Carbon tetrachloride SCAN	7.110	117	344	76.43 ug/L #	72
33) Benzene SCAN	7.426	78	4628	337.95 ug/L	91
35) Trichloroethene SCAN	8.512	130	54476	15606.68 ug/L	82
36) Toluene-d8 SCAN	10.432	98	77952	5030.35 ug/L	98
37) Toluene SCAN	10.537	91	24607	1226.90 ug/L	93
39) Tetrachloroethene SCAN	11.377	166	4461	923.65 ug/L #	35
42) Ethylbenzene SCAN	12.937	91	6230	233.02 ug/L	89
43) m&p-Xylene SCAN	13.128	91	14621	366.57 ug/L	89
44) o-Xylene SCAN	13.740	91	5377	245.06 ug/L	81

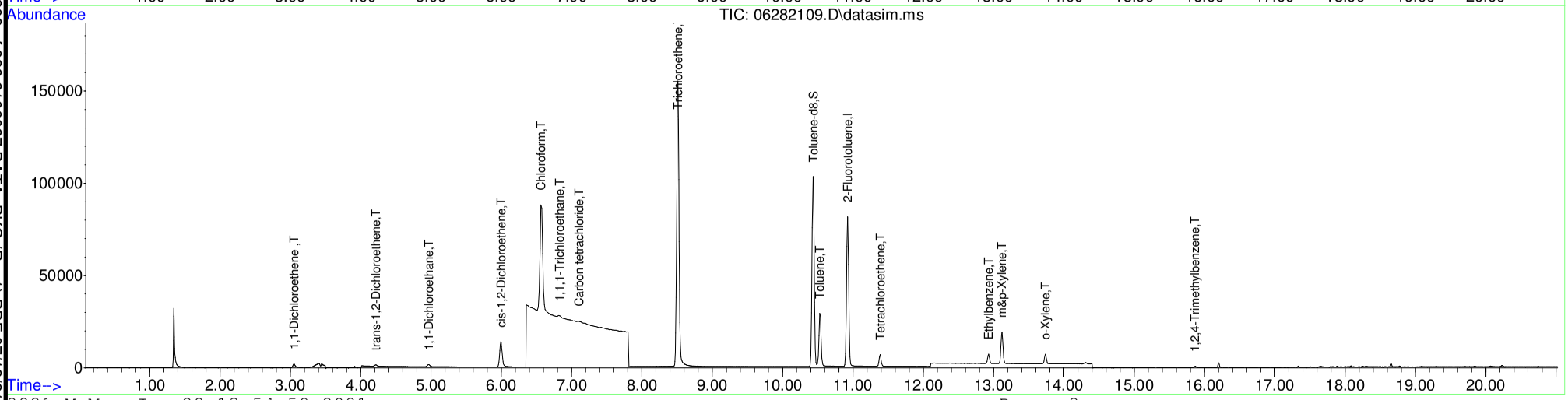
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282109.D
Acq On : 28 Jun 2021 12:28
InstName : AG5975C
Operator : TD
Sample : 2106037-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 28 13:54:56 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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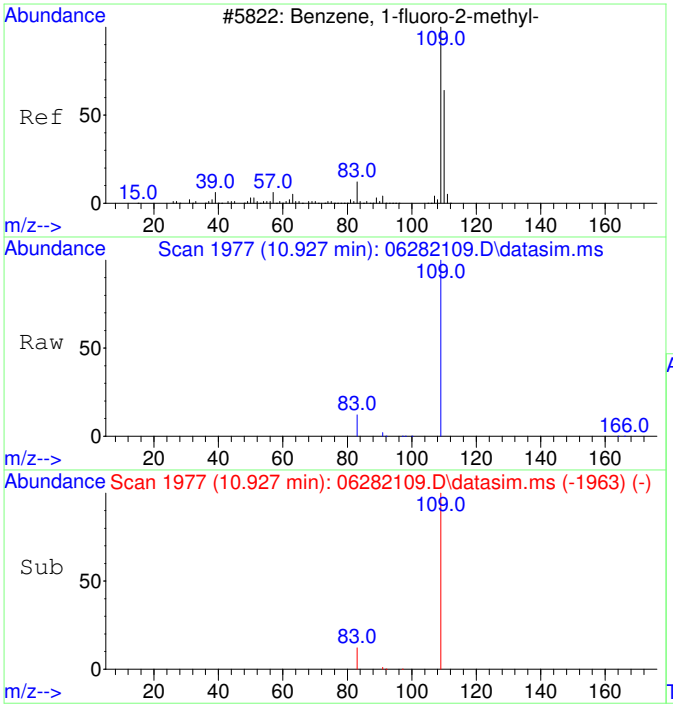
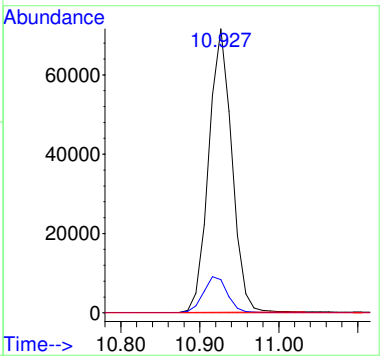
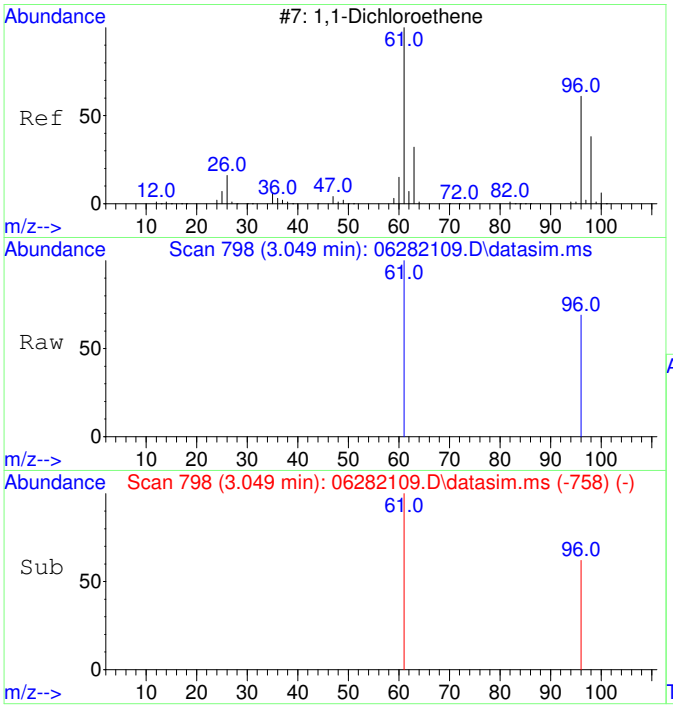


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion:109 Resp: 145158

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

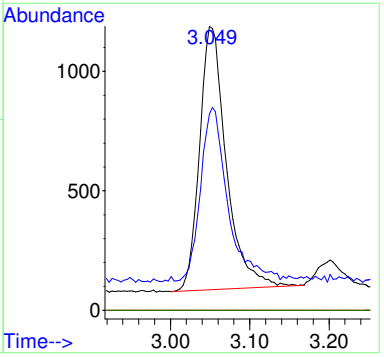


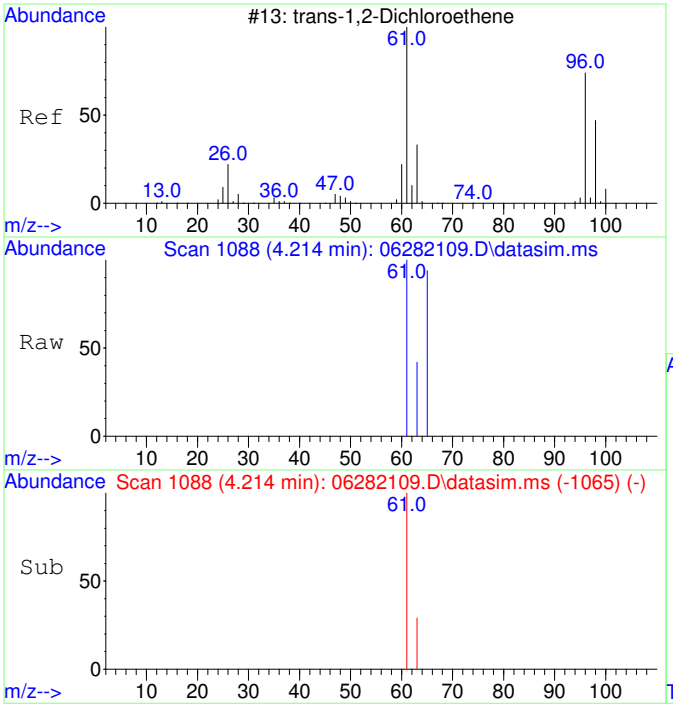


#2
1,1-Dichloroethene
Concen: 408.39 ug/L
RT: 3.049 min Scan# 798
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 61 Resp: 2582

Ion	Ratio	Lower	Upper
61	100		
96	65.5	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

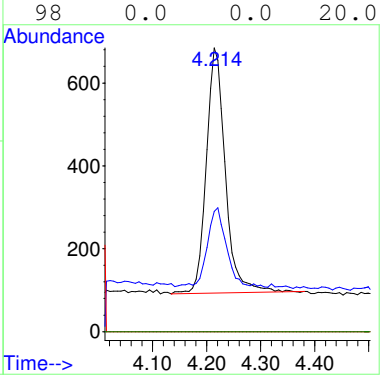


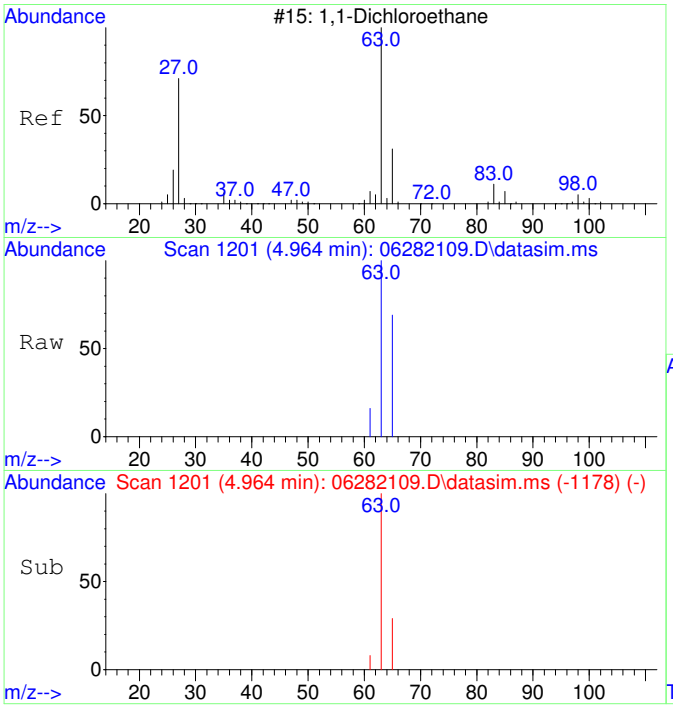


#3
trans-1,2-Dichloroethene
Concen: 267.04 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 61 Resp: 1453

Ion	Ratio	Lower	Upper
61	100		
63	31.5	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

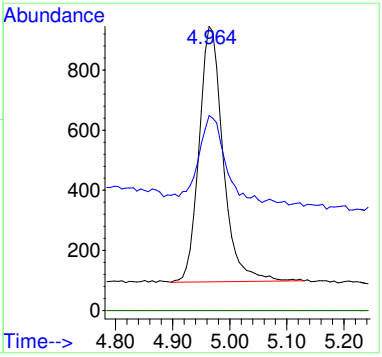


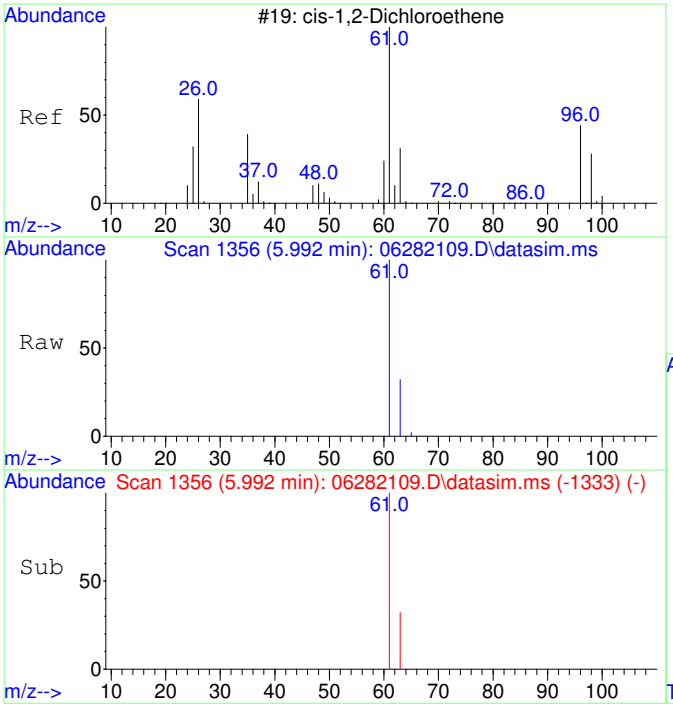


#4
1,1-Dichloroethane
Concen: 332.19 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 63 Resp: 2479

Ion	Ratio	Lower	Upper
63	100		
65	38.4	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

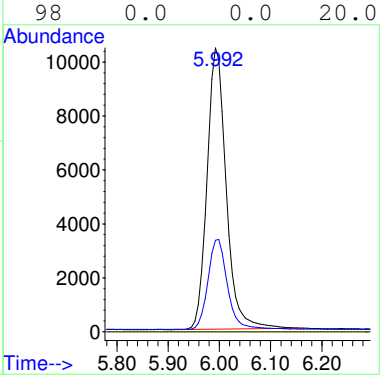


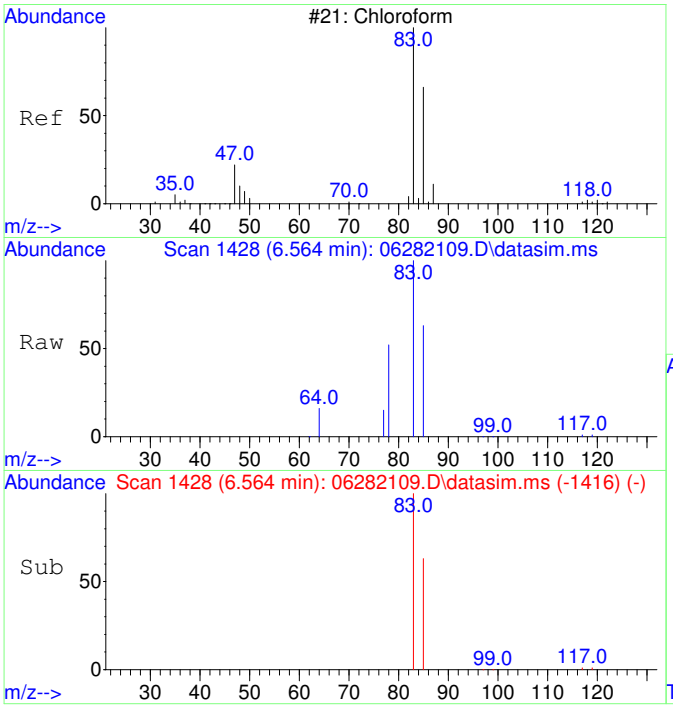


#5
cis-1,2-Dichloroethene
Concen: 3779.72 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 61 Resp: 27027

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

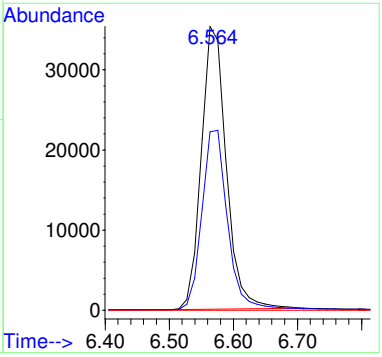


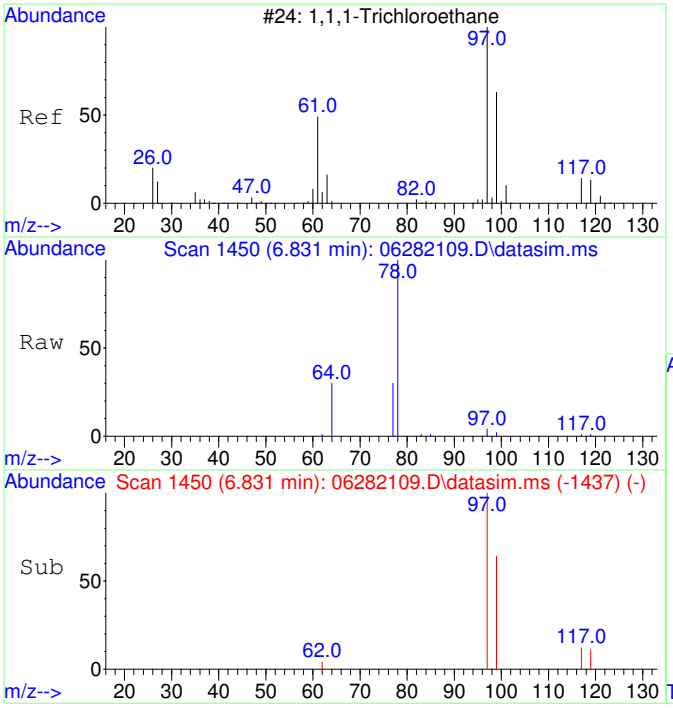


#6
Chloroform
Concen: 11362.15 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 83 Resp: 95618

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.5	94.5
87	0.0	0.0	20.0

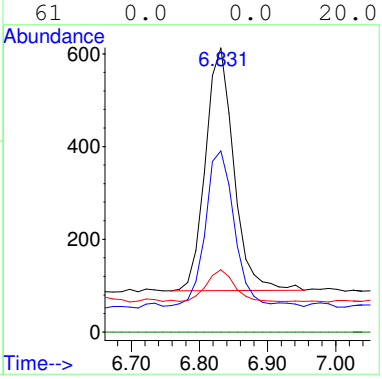


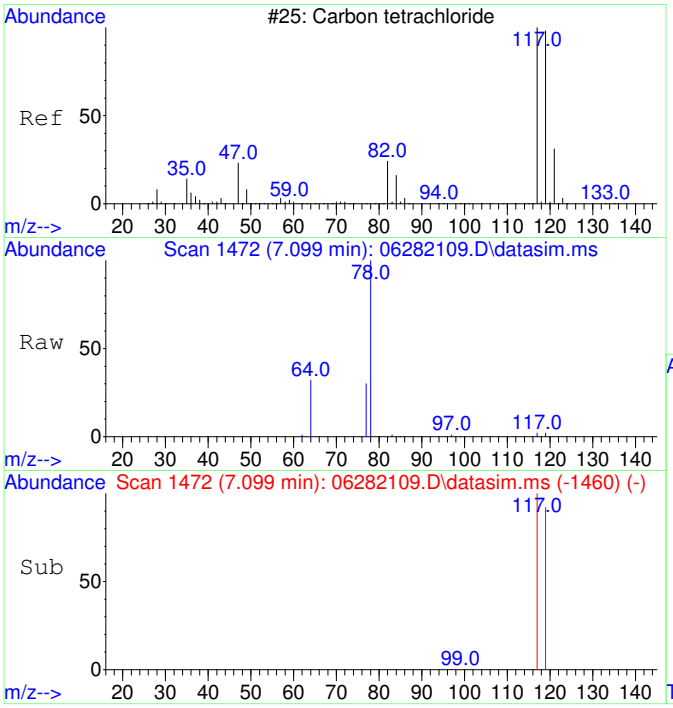


#7
1,1,1-Trichloroethane
Concen: 193.35 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 97 Resp: 1514

Ion	Ratio	Lower	Upper
97	100		
99	65.9	34.4	94.4
117	12.7	0.0	42.8
61	0.0	0.0	20.0

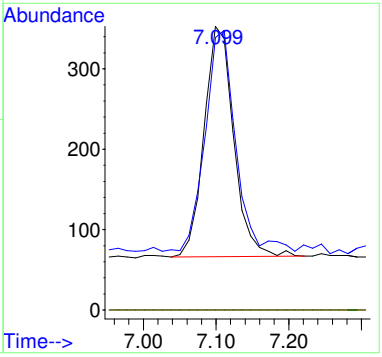


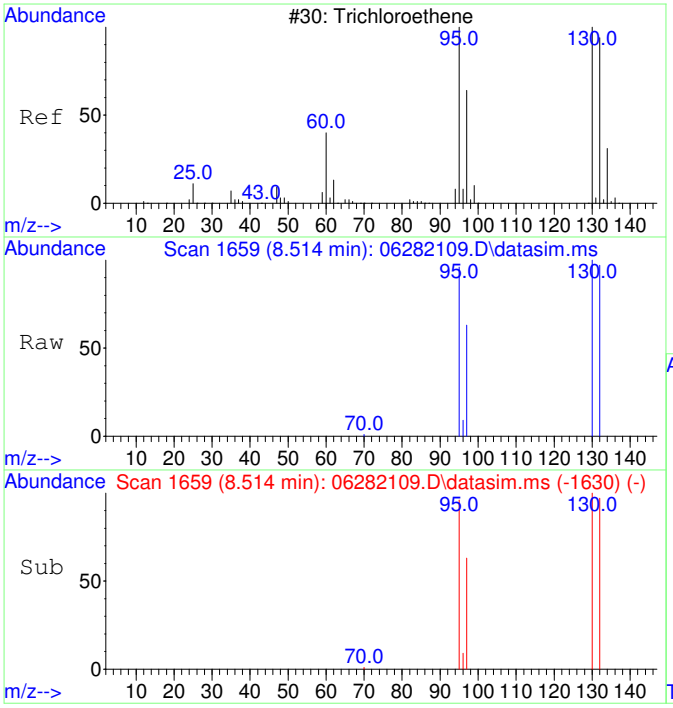


#8
Carbon tetrachloride
Concen: 118.89 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion:117 Resp: 811

Ion	Ratio	Lower	Upper
117	100		
119	98.5	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

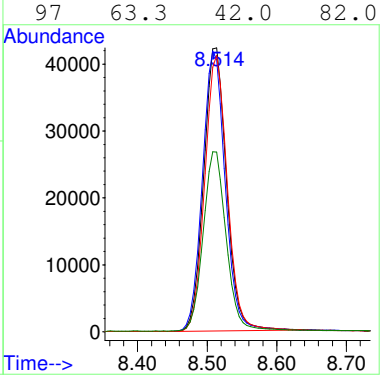


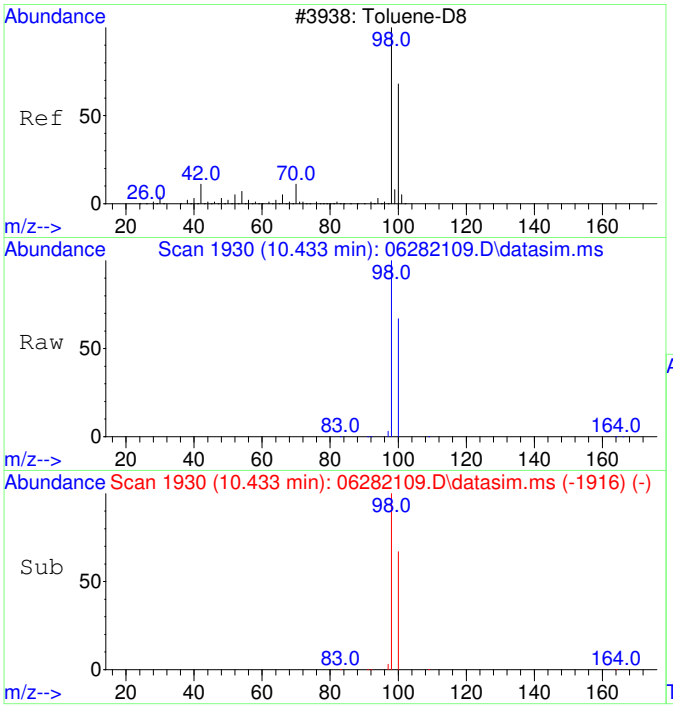


#11
Trichloroethene
Concen: 15326.85 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion:130 Resp: 96494

Ion	Ratio	Lower	Upper
130	100		
95	98.7	65.8	125.8
132	95.9	75.8	115.8
97	63.3	42.0	82.0

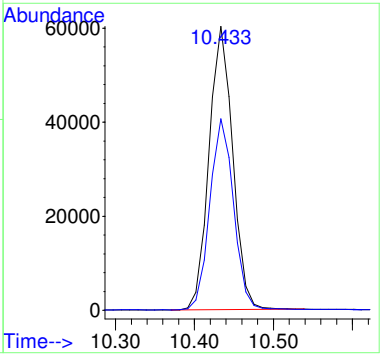


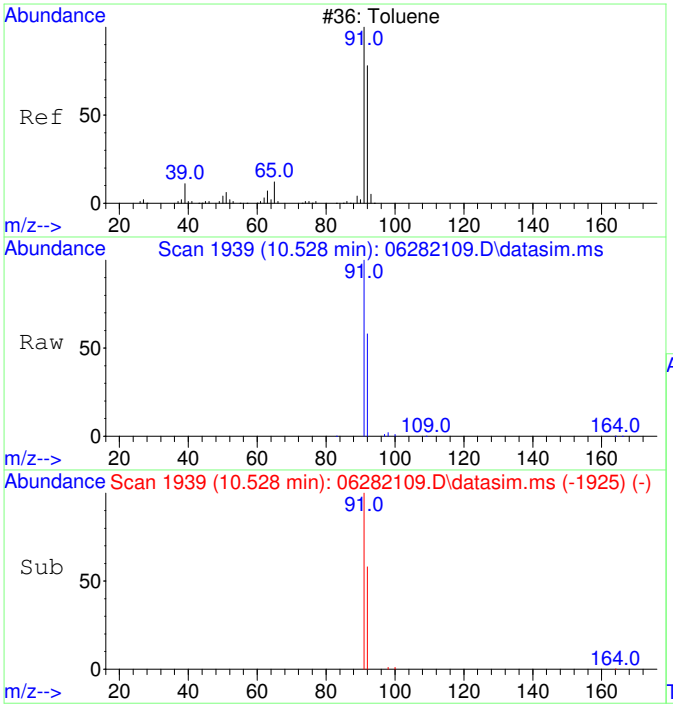


#12
Toluene-d8
Concen: 5040.88 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 98 Resp: 125338

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.3	97.3

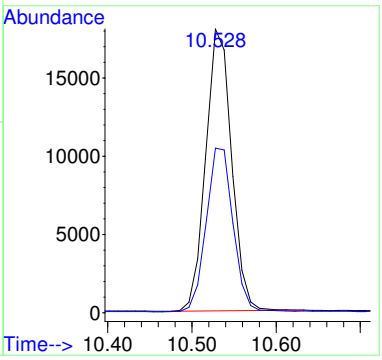


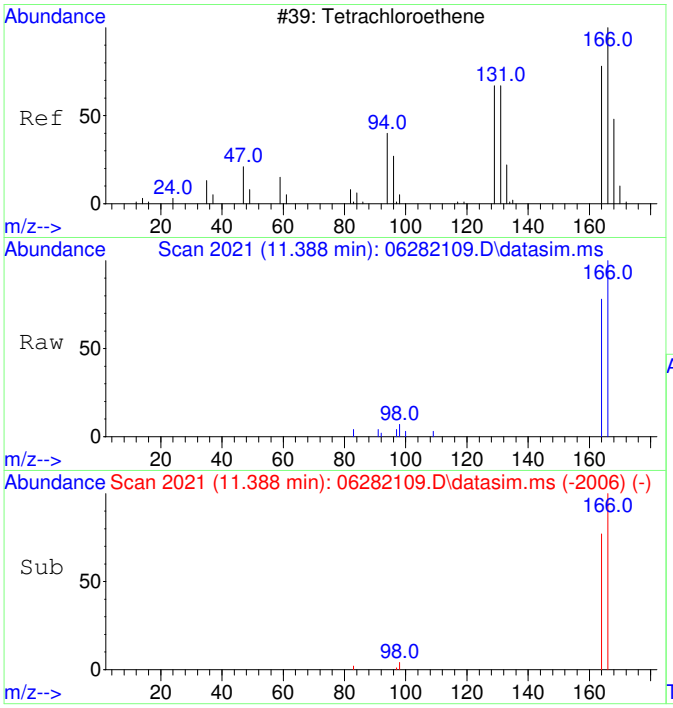


#13
Toluene
Concen: 1190.18 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 91 Resp: 38520

Ion	Ratio	Lower	Upper
91	100		
92	59.8	30.2	90.2

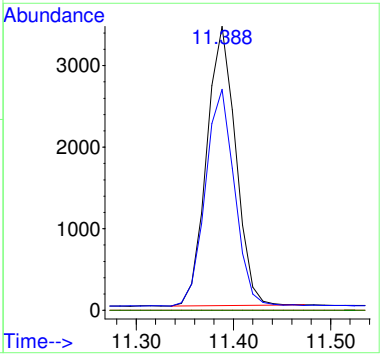


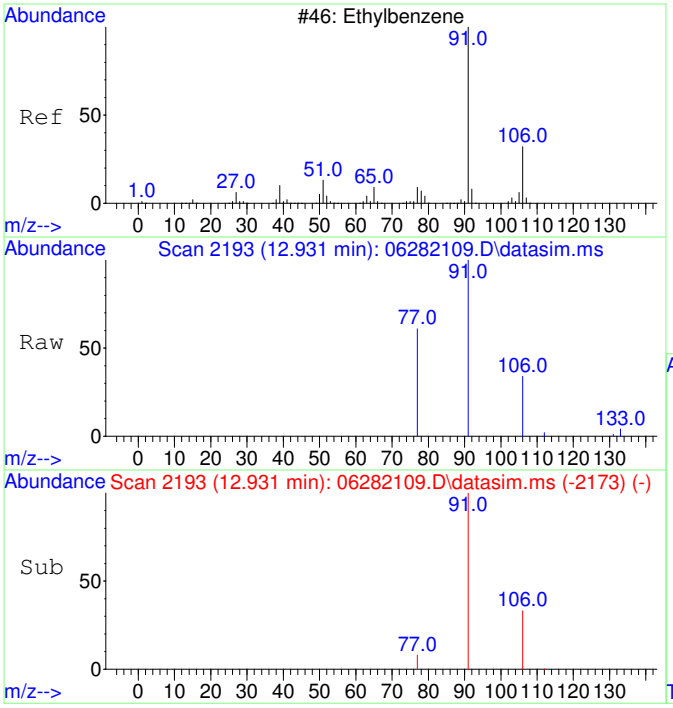


#15
Tetrachloroethene
Concen: 855.27 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.010 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion:166 Resp: 7081

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

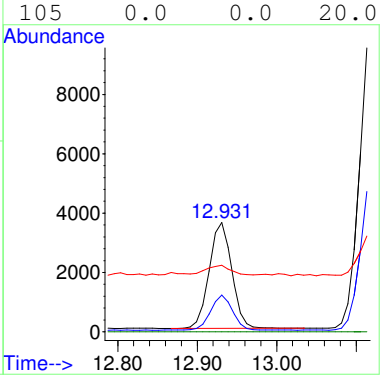


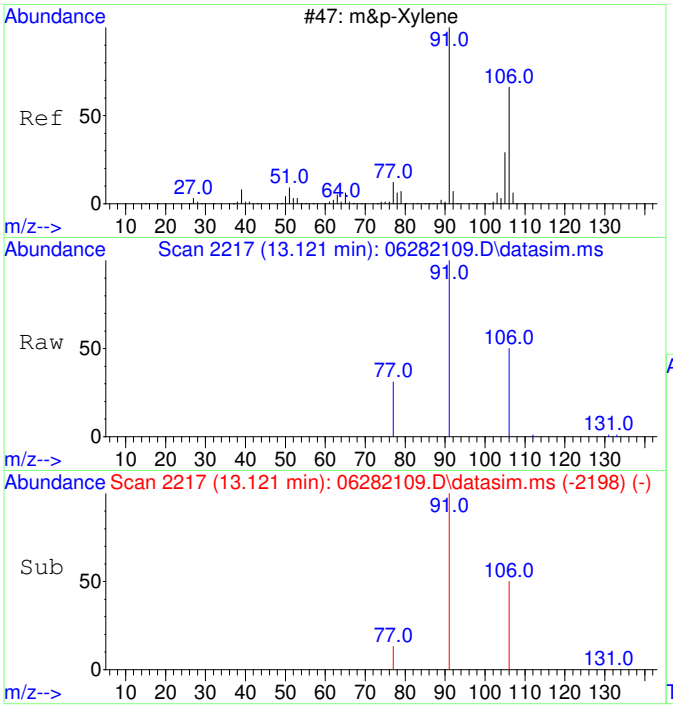


#18
Ethylbenzene
Concen: 169.76 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 91 Resp: 7056

Ion	Ratio	Lower	Upper
91	100		
106	31.8	2.8	62.8
77	9.8	0.0	38.2
105	0.0	0.0	20.0

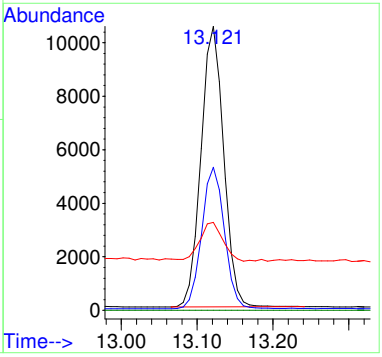


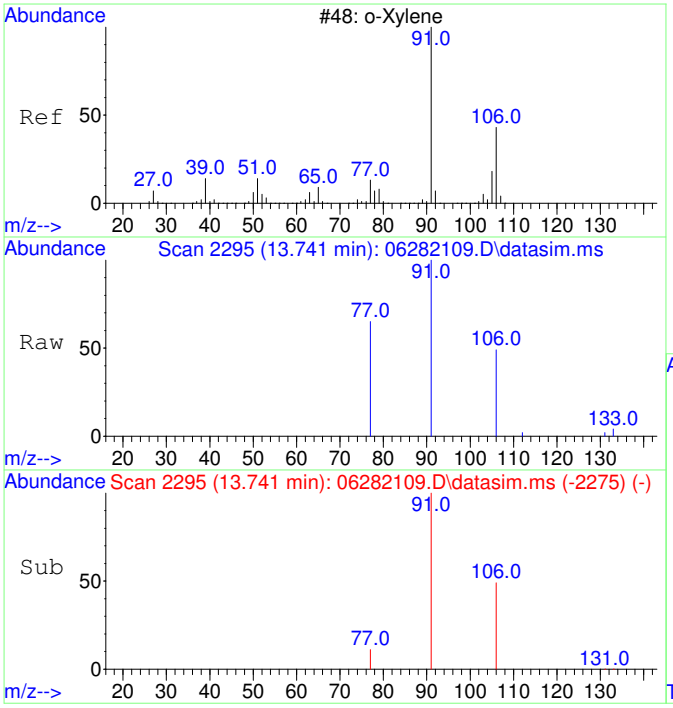


#19
m&p-Xylene
Concen: 665.83 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 91 Resp: 21802

Ion	Ratio	Lower	Upper
91	100		
106	50.5	21.4	81.4
77	13.8	0.0	42.7
105	0.0	0.0	20.0

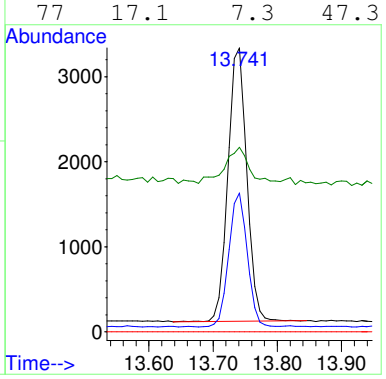


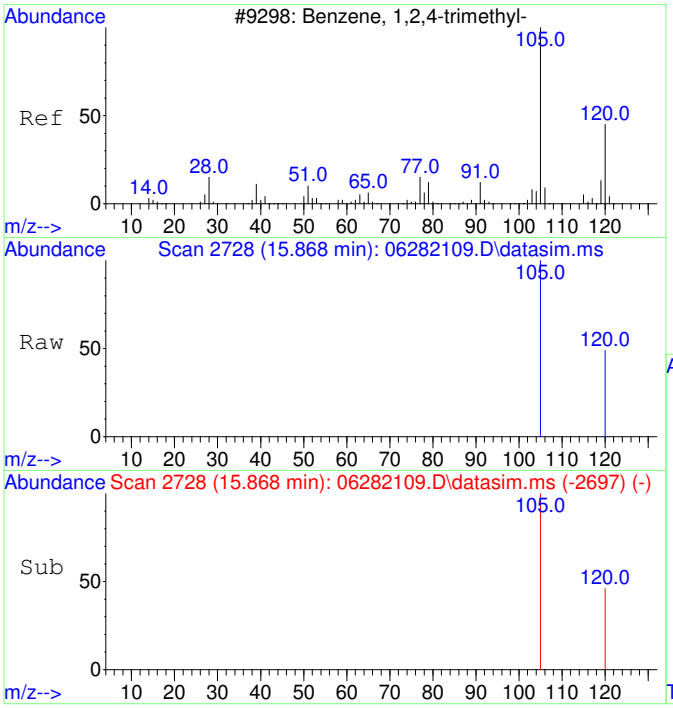


#20
o-Xylene
Concen: 184.19 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 91 Resp: 6523

Ion	Ratio	Lower	Upper
91	100		
106	47.9	18.7	78.7
105	0.0	0.0	30.0
77	17.1	7.3	47.3

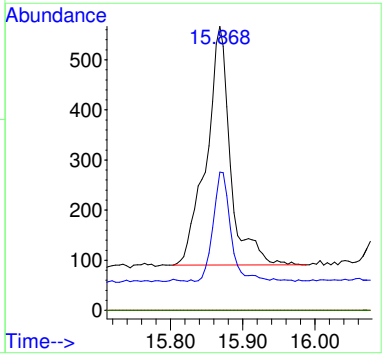


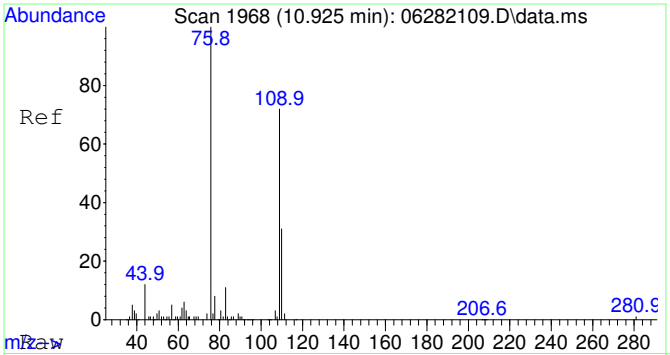


#23
1,2,4-Trimethylbenzene
Concen: 25.64 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion:105 Resp: 1111

Ion	Ratio	Lower	Upper
105	100		
120	33.8	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

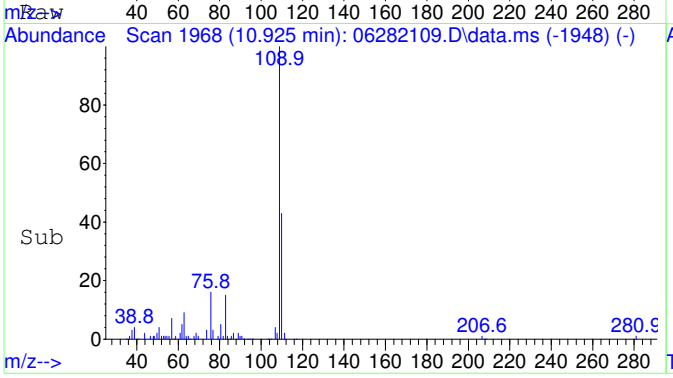


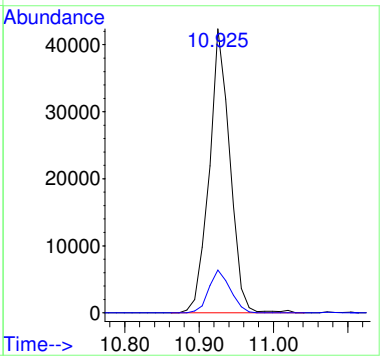


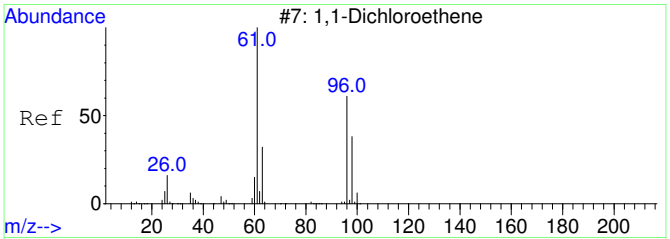
#25
2-Fluorotoluene SCAN
Concen: 4573.47 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion:109 Resp: 81713

Ion	Ratio	Lower	Upper
109	100		
83	15.6	0.0	44.5



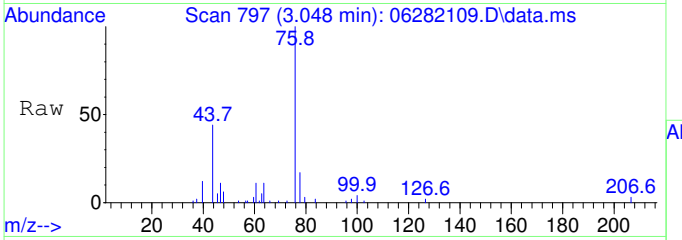


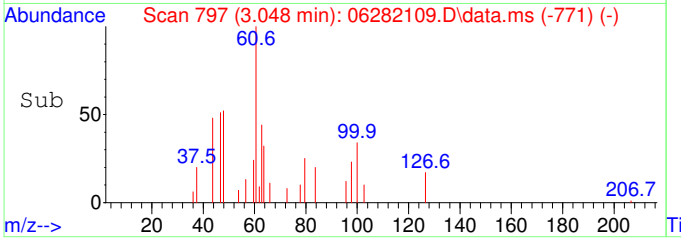


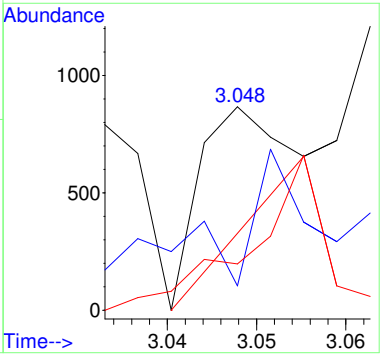
#26
1,1-Dichloroethene SCAN
Concen: 98.05 ug/L
RT: 3.048 min Scan# 797
Delta R.T. -0.004 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

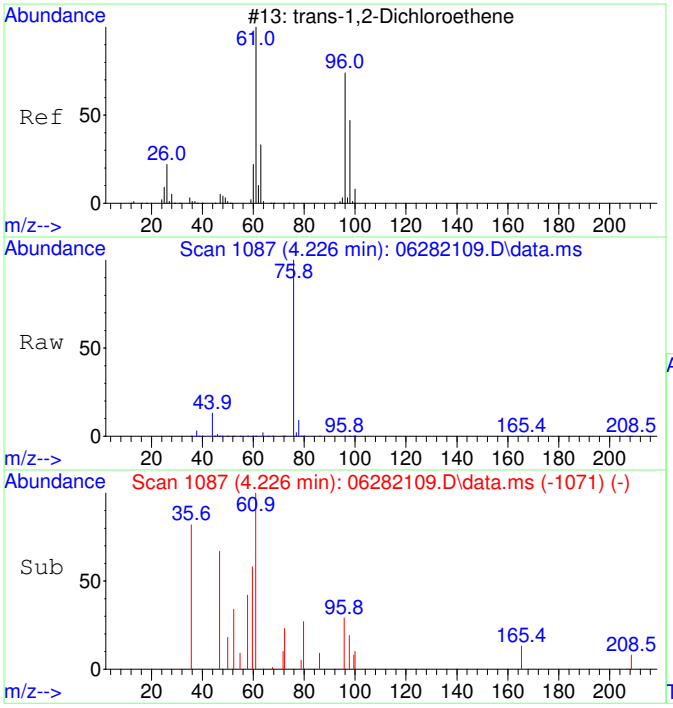
Tgt Ion: 61 Resp: 370

Ion	Ratio	Lower	Upper
61	100		
96	290.0	33.0	93.0#
98	101.6	12.5	72.5#





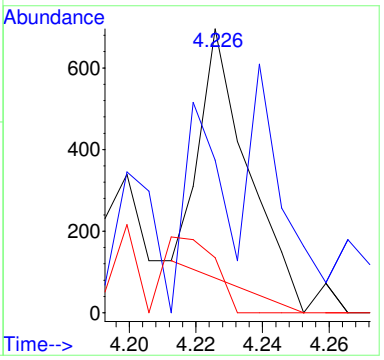


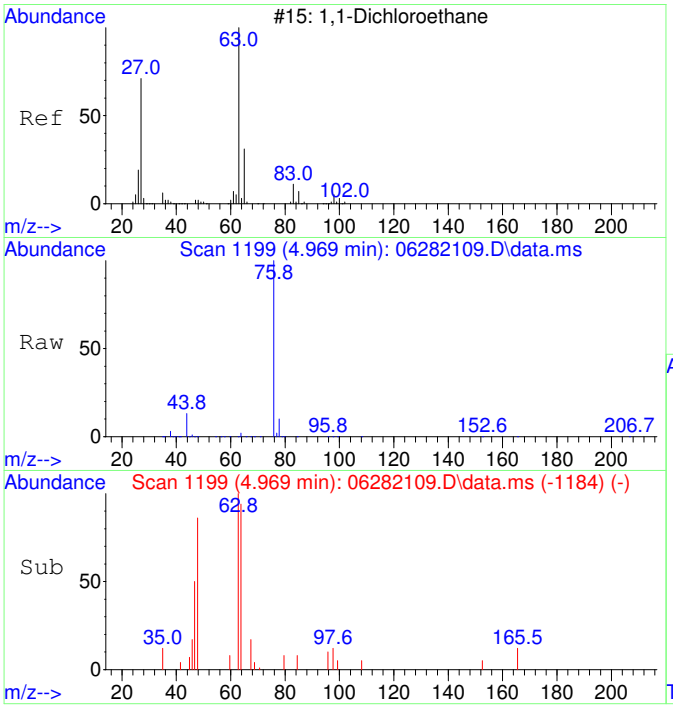


#27
trans-1,2-Dichloroethene SCAN
Concen: 143.54 ug/L
RT: 4.226 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 61 Resp: 586

Ion	Ratio	Lower	Upper
61	100		
96	56.1	49.3	109.3
98	34.0	24.0	84.0

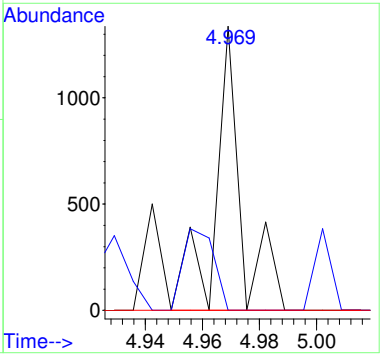


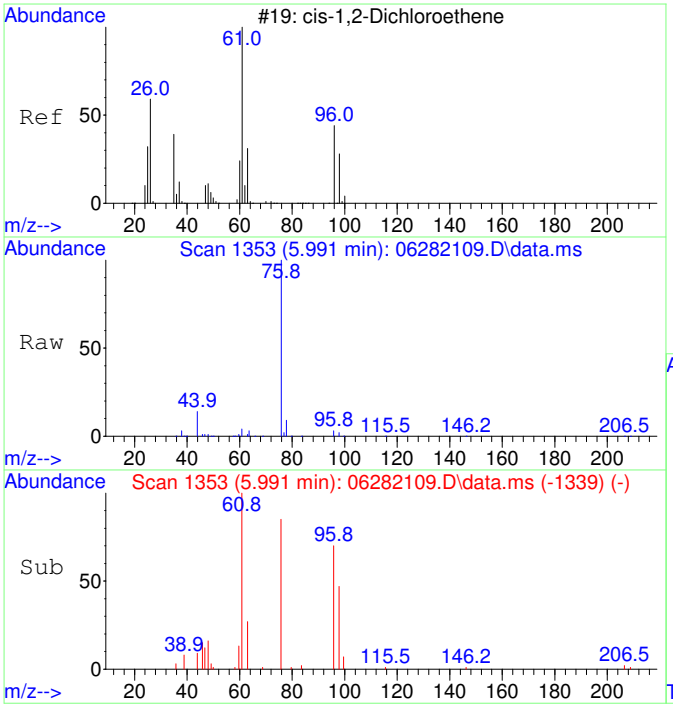


#28
1,1-Dichloroethane SCAN
Concen: 156.09 ug/L
RT: 4.969 min Scan# 1199
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 63 Resp: 854

Ion	Ratio	Lower	Upper
63	100		
65	0.0	0.0	57.3
83	0.0	0.0	46.2

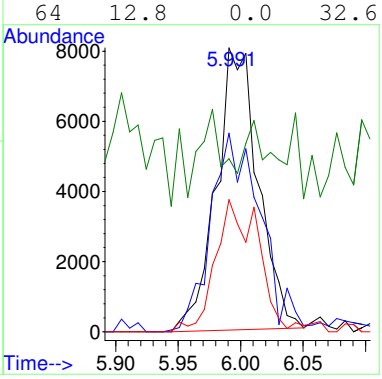


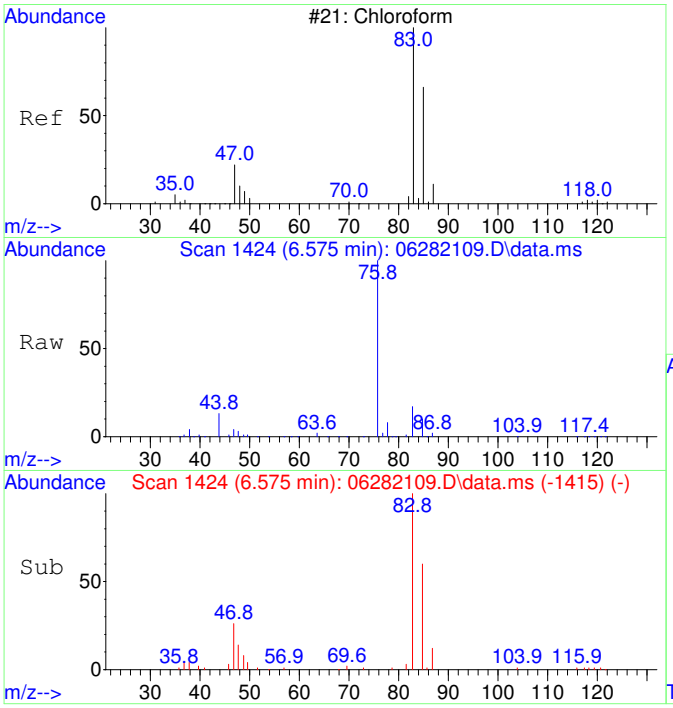


#29
cis-1,2-Dichloroethene SCAN
Concen: 3412.80 ug/L
RT: 5.991 min Scan# 1353
Delta R.T. -0.007 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 61 Resp: 18838

Ion	Ratio	Lower	Upper
61	100		
96	79.4	36.9	96.9
98	48.9	12.1	72.1
64	12.8	0.0	32.6

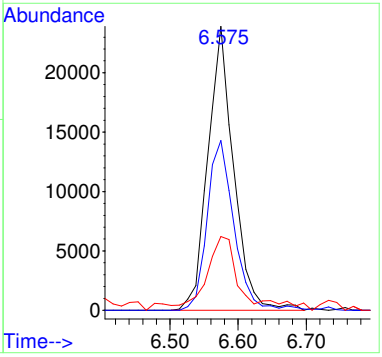


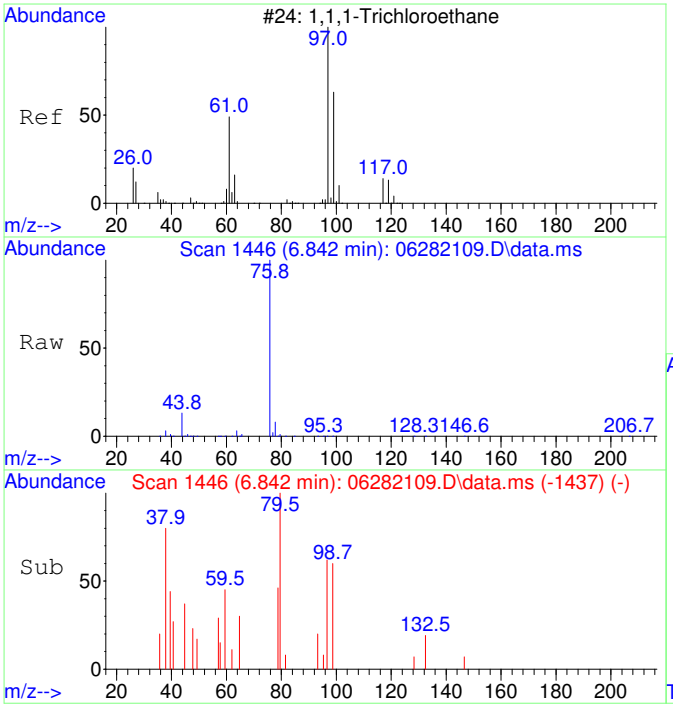


#30
Chloroform SCAN
Concen: 10768.01 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 83 Resp: 62859

Ion	Ratio	Lower	Upper
83	100		
85	61.6	27.1	87.1
47	29.6	7.5	67.5

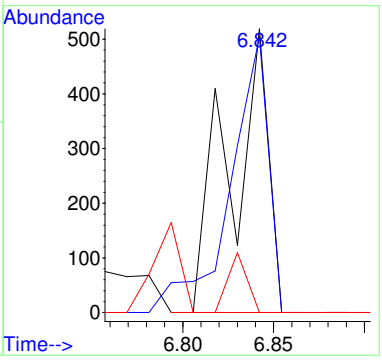


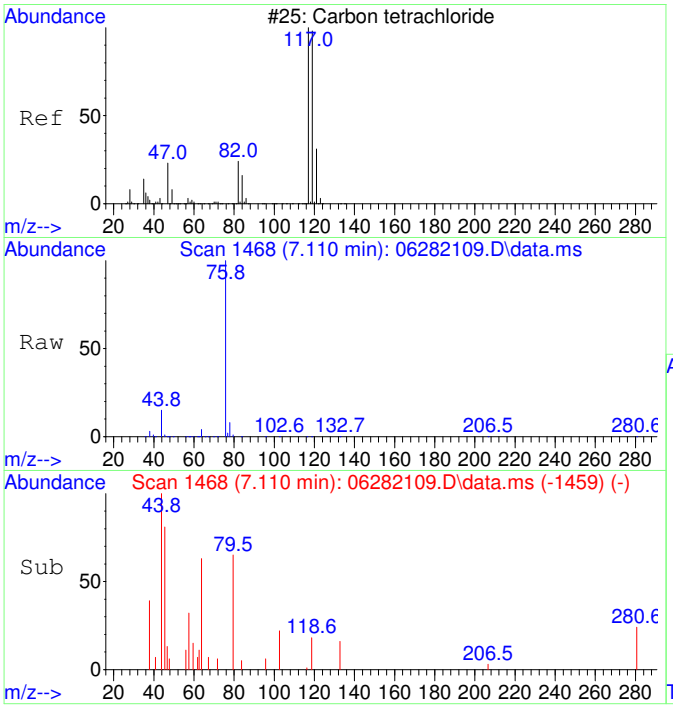


#31
1,1,1-Trichloroethane SCAN
Concen: 140.81 ug/L
RT: 6.842 min Scan# 1446
Delta R.T. 0.012 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 97 Resp: 768

Ion	Ratio	Lower	Upper
97	100		
99	94.8	26.5	86.5#
61	10.4	11.4	71.4#

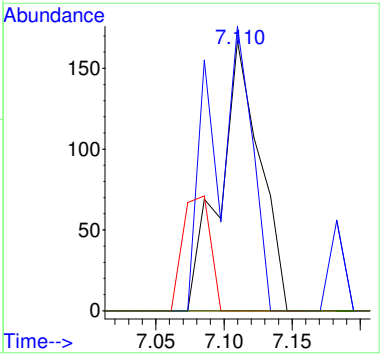


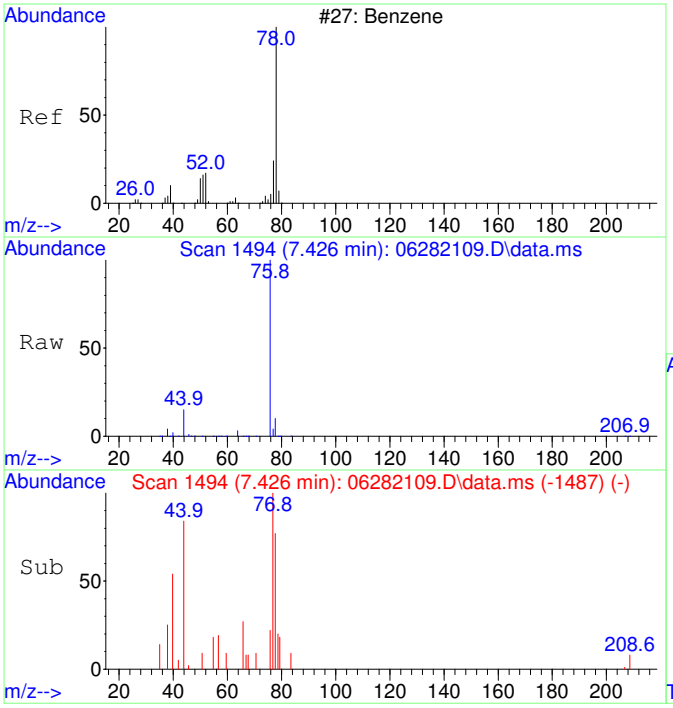


#32
Carbon tetrachloride SCAN
Concen: 76.43 ug/L
RT: 7.110 min Scan# 1468
Delta R.T. 0.012 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion:117 Resp: 344

Ion	Ratio	Lower	Upper
117	100		
119	103.2	68.0	128.0
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

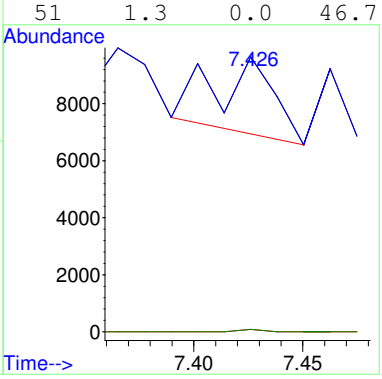


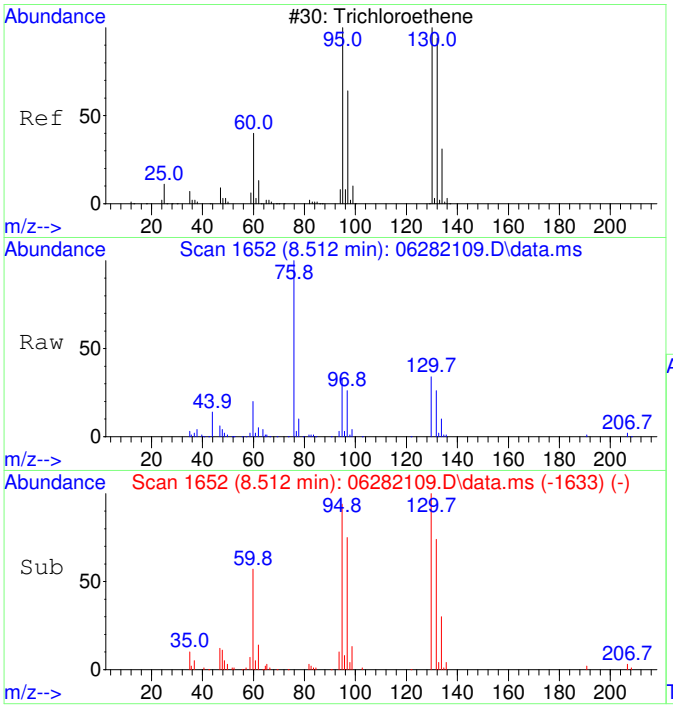


#33
Benzene SCAN
Concen: 337.95 ug/L
RT: 7.426 min Scan# 1494
Delta R.T. -0.012 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 78 Resp: 4628

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.3	0.0	46.7
51	1.3	0.0	46.7

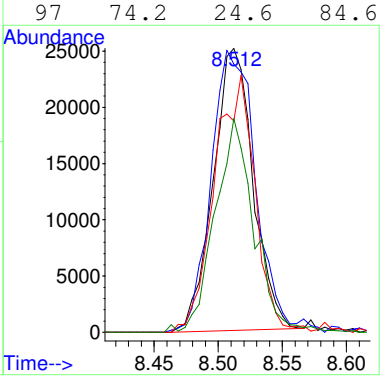


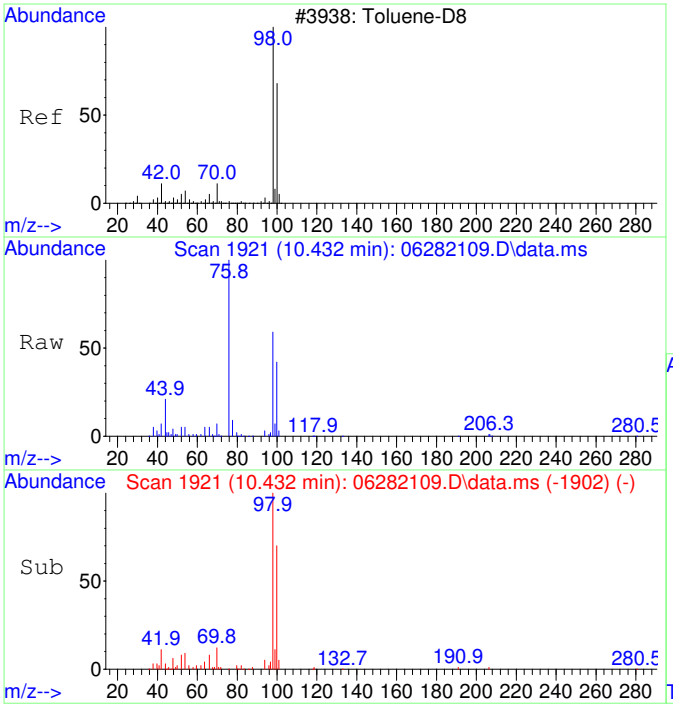


#35
Trichloroethene SCAN
Concen: 15606.68 ug/L
RT: 8.512 min Scan# 1652
Delta R.T. 0.005 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion:130 Resp: 54476

Ion	Ratio	Lower	Upper
130	100		
95	111.8	60.0	120.0
132	91.5	54.3	114.3
97	74.2	24.6	84.6

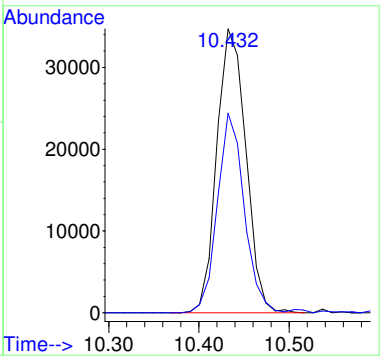


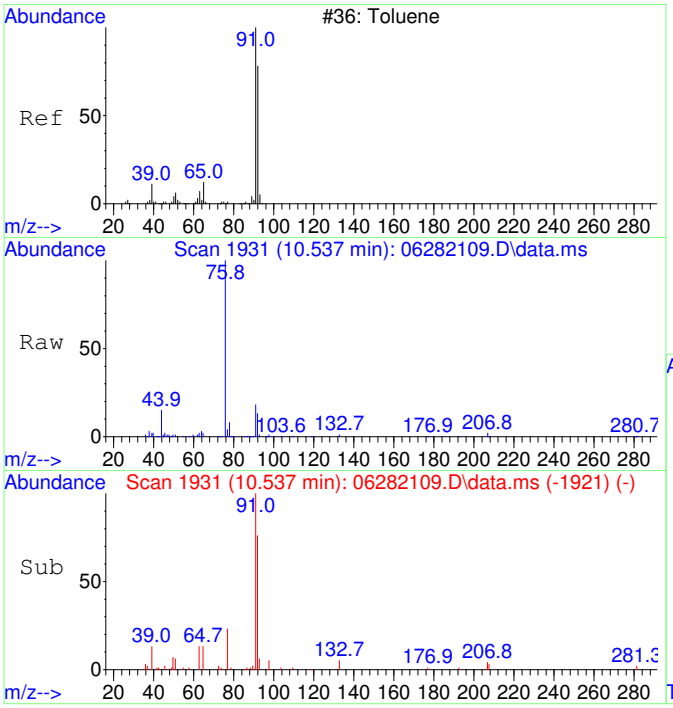


#36
Toluene-d8 SCAN
Concen: 5030.35 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 98 Resp: 77952

Ion	Ratio	Lower	Upper
98	100		
100	64.4	36.1	96.1

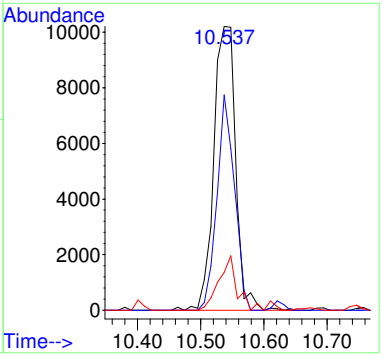


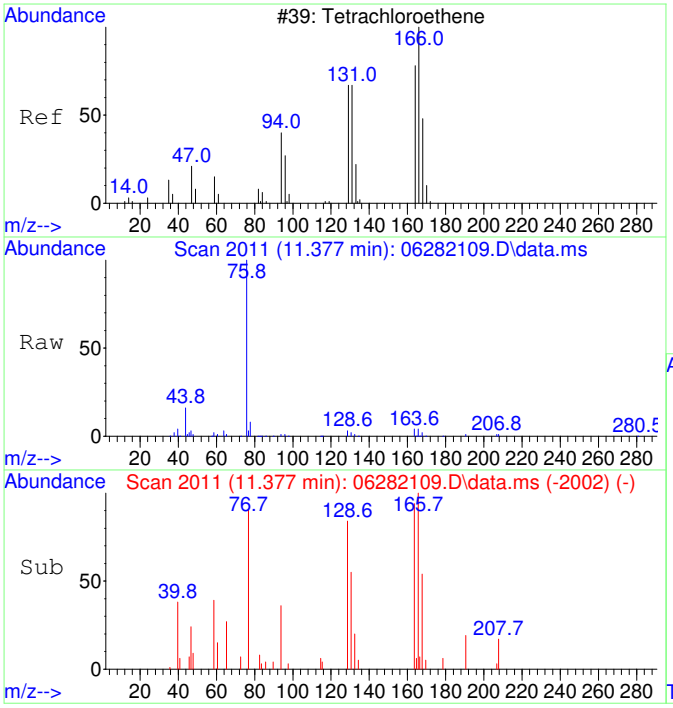


#37
Toluene SCAN
Concen: 1226.90 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 91 Resp: 24607

Ion	Ratio	Lower	Upper
91	100		
92	61.0	26.5	86.5
65	16.0	0.0	40.6

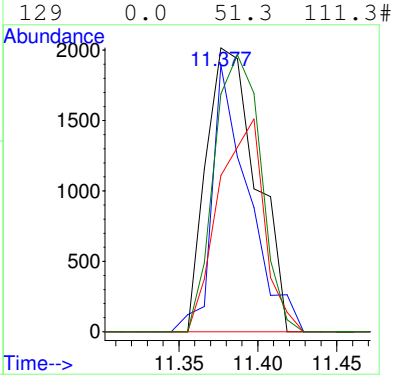


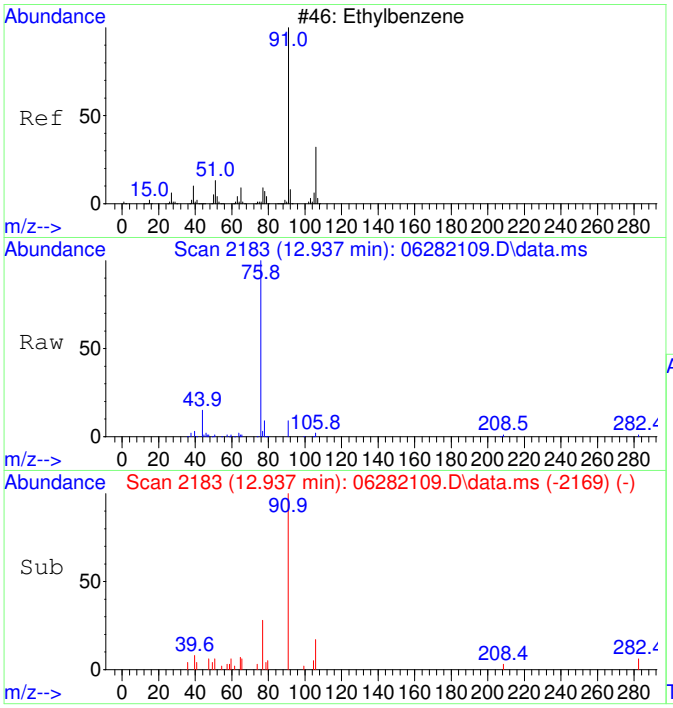


#39
Tetrachloroethene SCAN
Concen: 923.65 ug/L
RT: 11.377 min Scan# 2011
Delta R.T. -0.011 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion:166 Resp: 4461

Ion	Ratio	Lower	Upper
166	100		
164	68.4	53.9	113.9
131	0.0	45.6	105.6#
129	0.0	51.3	111.3#

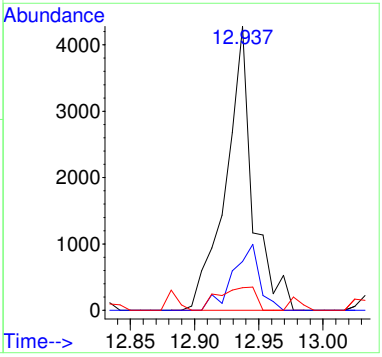


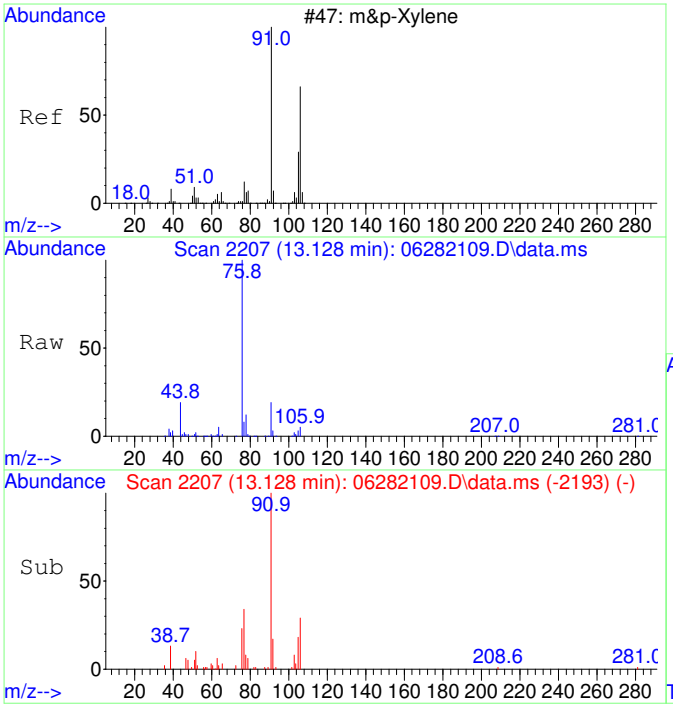


#42
Ethylbenzene SCAN
Concen: 233.02 ug/L
RT: 12.937 min Scan# 2183
Delta R.T. 0.008 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 91 Resp: 6230

Ion	Ratio	Lower	Upper
91	100		
106	23.1	0.5	60.5
51	11.2	0.0	39.6

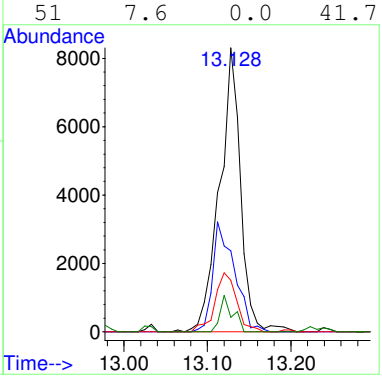


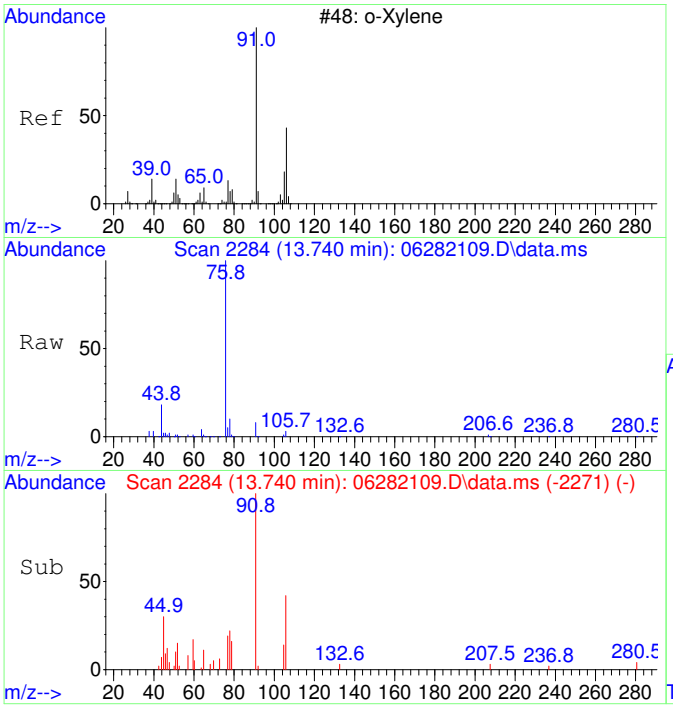


#43
m&p-Xylene SCAN
Concen: 366.57 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 91 Resp: 14621

Ion	Ratio	Lower	Upper
91	100		
106	39.9	21.2	81.2
105	21.3	0.0	51.6
51	7.6	0.0	41.7

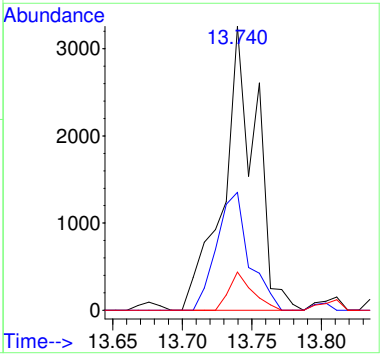




#44
o-Xylene SCAN
Concen: 245.06 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. -0.000 min
Lab File: 06282109.D
Acq: 28 Jun 2021 12:28

Tgt Ion: 91 Resp: 5377

Ion	Ratio	Lower	Upper
91	100		
106	41.1	19.1	79.1
105	9.6	0.0	55.6



2106037-02

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282110.D
Acq On : 28 Jun 2021 12:54
InstName : AG5975C
Operator : TD
Sample : 2106037-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 13:55:57 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

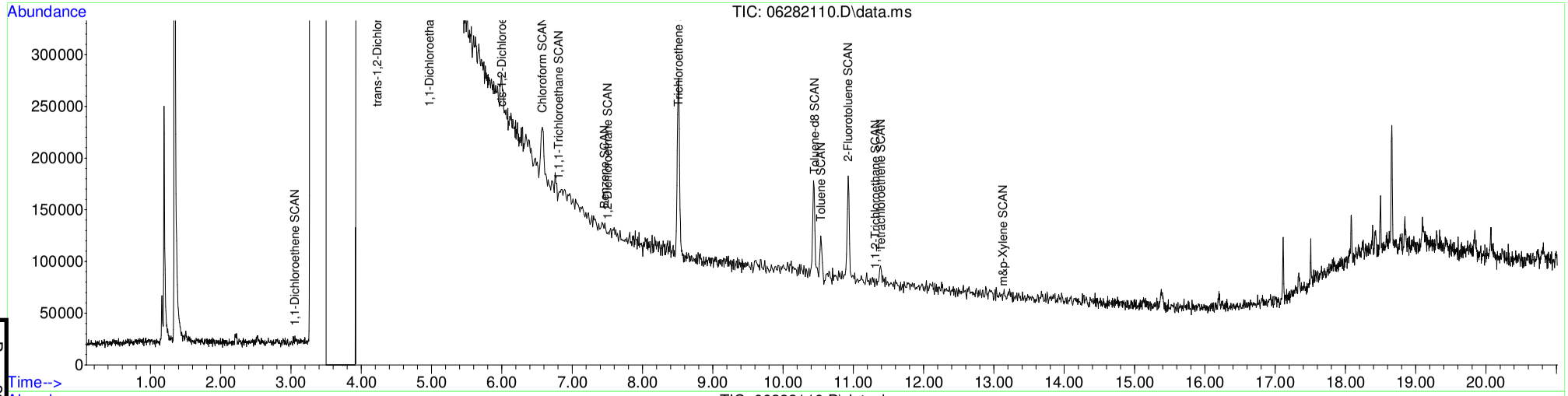
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	147160	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	127614	5062.59 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.25%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	2719	424.20 ug/L #	99
3] trans-1,2-Dichloroethene	4.214	61	1581	286.61 ug/L #	100
4] 1,1-Dichloroethane	4.964	63	2699	356.75 ug/L #	93
5] cis-1,2-Dichloroethene	5.992	61	29428	4059.51 ug/L #	100
6] Chloroform	6.564	83	80368	9420.09 ug/L #	100
7] 1,1,1-Trichloroethane	6.832	97	1666	209.87 ug/L #	99
8] Carbon tetrachloride	7.099	117	288	41.64 ug/L #	72
11] Trichloroethene	8.508	130	118236	18524.80 ug/L	99
13] Toluene	10.528	91	46748	1424.76 ug/L	99
15] Tetrachloroethene	11.389	166	7771	925.84 ug/L #	99
19] m&p-Xylene	13.122	91	1498	45.13 ug/L #	94
25) 2-Fluorotoluene SCAN	10.926	109	81314	4489.23 ug/L	95
26) 1,1-Dichloroethene SCAN	3.048	61	1087	284.13 ug/L #	34
27) trans-1,2-Dichloroethe...	4.226	61	410	99.06 ug/L #	41
28) 1,1-Dichloroethane SCAN	4.963	63	2103	379.14 ug/L	77
29) cis-1,2-Dichloroethene...	5.998	61	20226	3614.41 ug/L	79
30) Chloroform SCAN	6.575	83	50081	8462.37 ug/L	86
31) 1,1,1-Trichloroethane ...	6.806	97	1194	215.93 ug/L #	41
33) Benzene SCAN	7.463	78	1728	124.47 ug/L #	90
34) 1,2-Dichloroethane SCAN	7.499	62	212	48.44 ug/L #	36
35) Trichloroethene SCAN	8.507	130	67460	19063.50 ug/L	84
36) Toluene-d8 SCAN	10.443	98	73366	4670.00 ug/L	99
37) Toluene SCAN	10.537	91	32505	1598.64 ug/L	92
38) 1,1,2-Trichloroethane ...	11.314	97	400	82.58 ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	3264	666.62 ug/L #	65
43) m&p-Xylene SCAN	13.120	91	1010	24.98 ug/L #	60

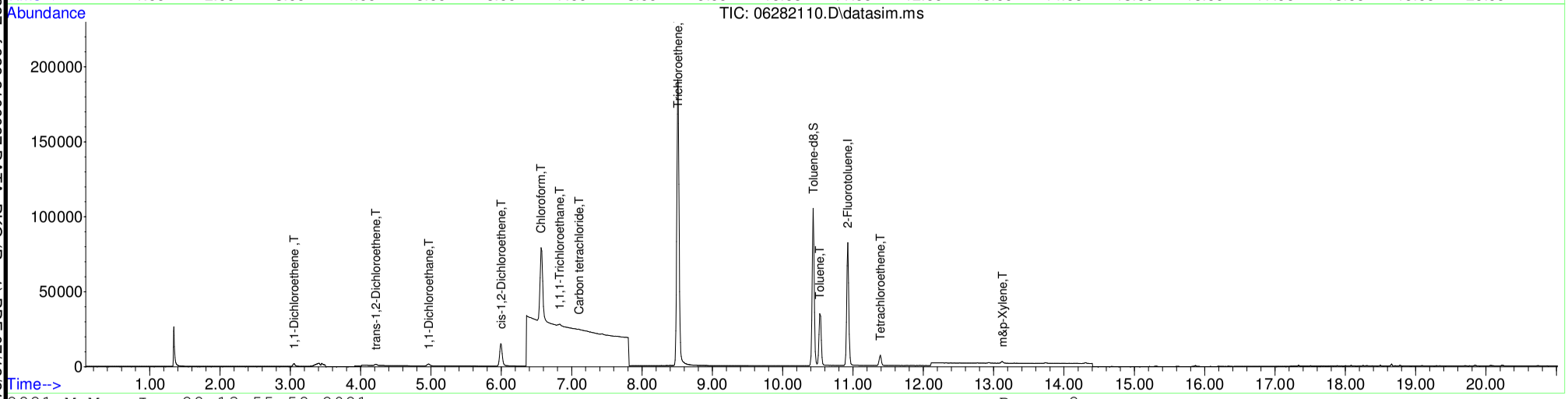
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282110.D
Acq On : 28 Jun 2021 12:54
InstName : AG5975C
Operator : TD
Sample : 2106037-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 13:55:57 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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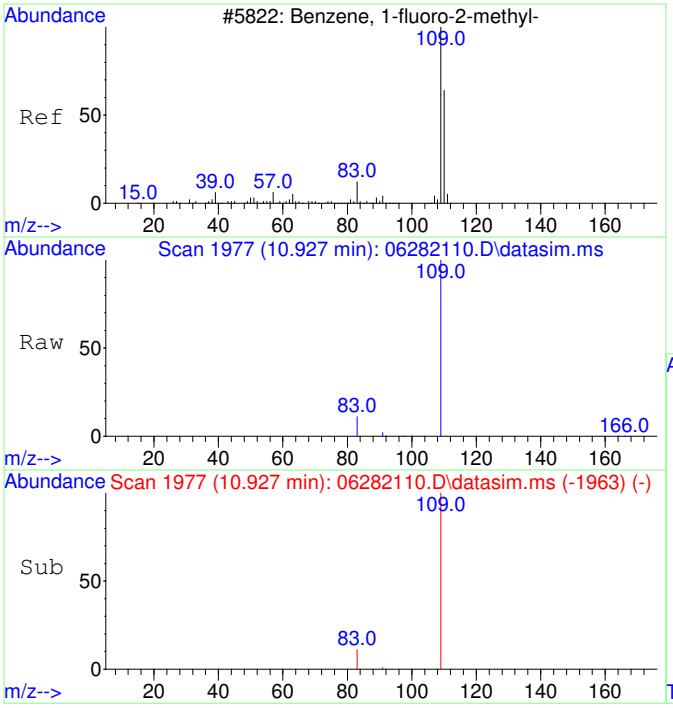
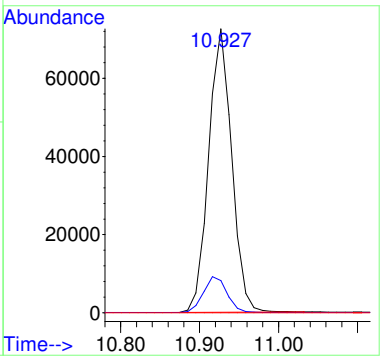
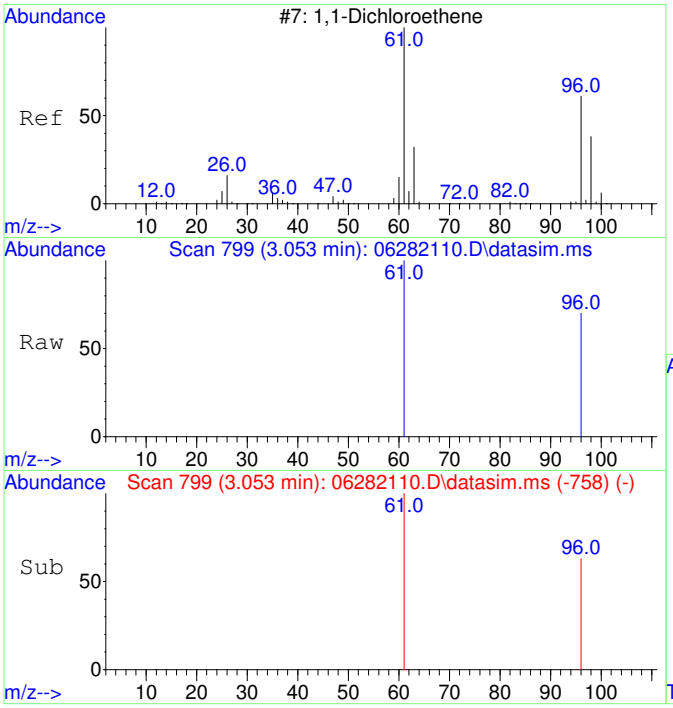


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion:109 Resp: 147160

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

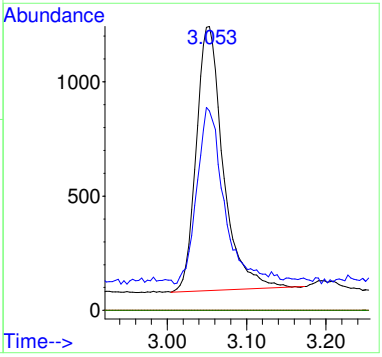


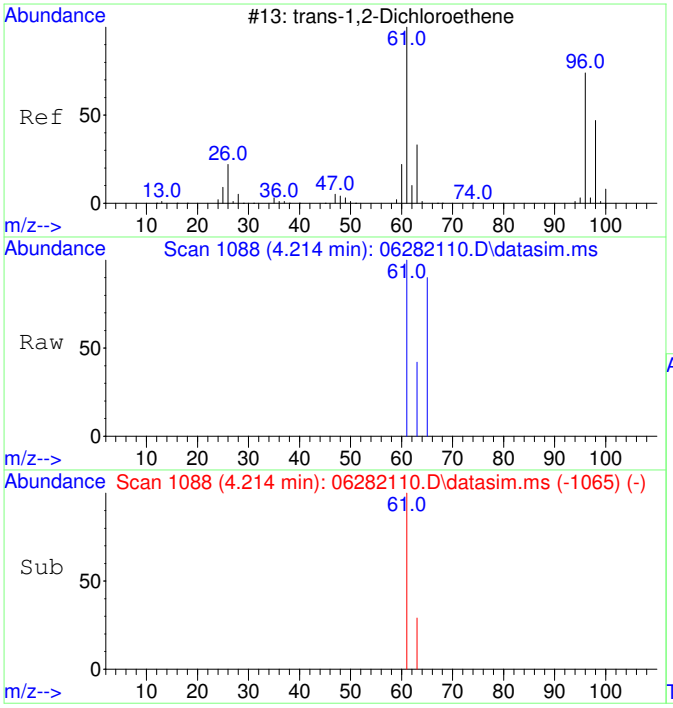


#2
1,1-Dichloroethene
Concen: 424.20 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 61 Resp: 2719

Ion	Ratio	Lower	Upper
61	100		
96	65.9	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

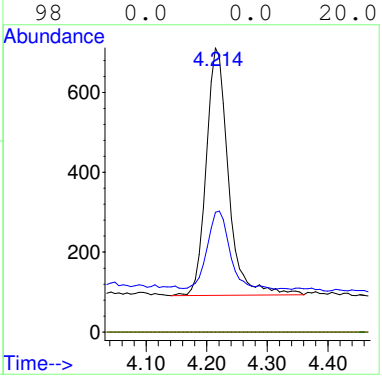


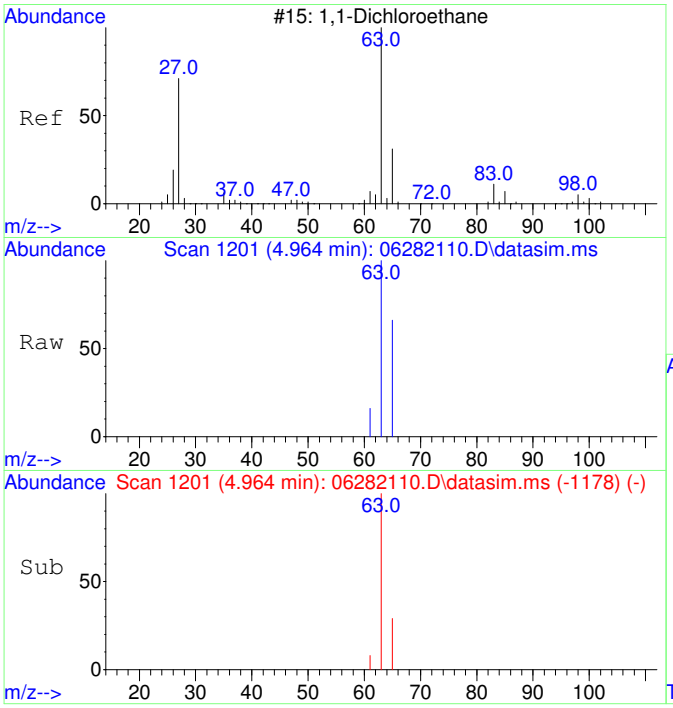


#3
trans-1,2-Dichloroethene
Concen: 286.61 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 61 Resp: 1581

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

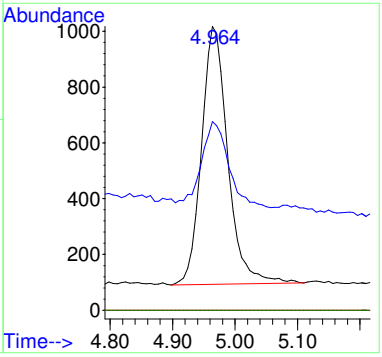


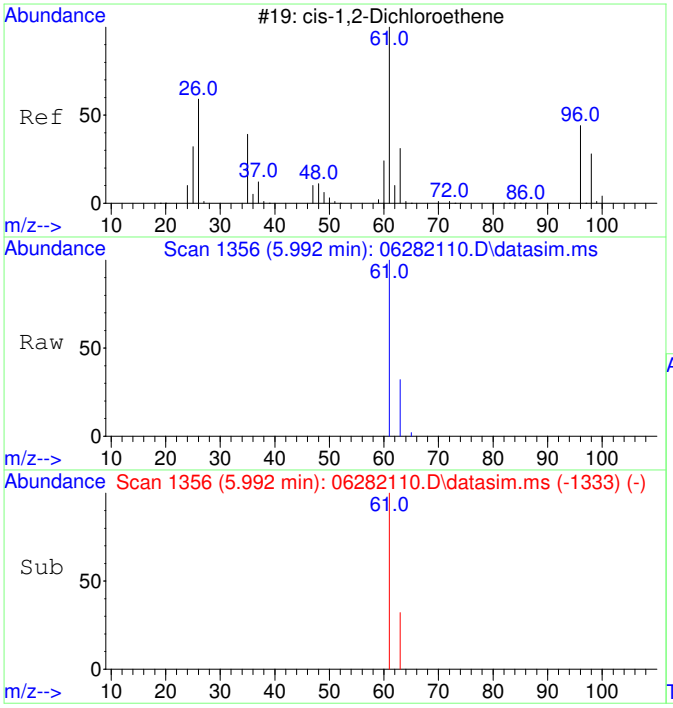


#4
1,1-Dichloroethane
Concen: 356.75 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 63 Resp: 2699

Ion	Ratio	Lower	Upper
63	100		
65	35.2	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

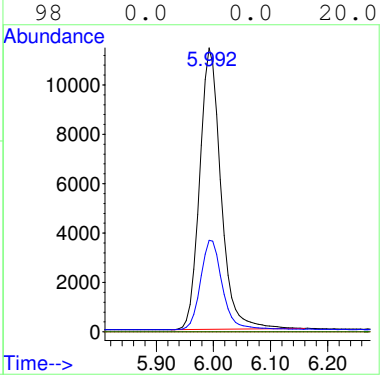


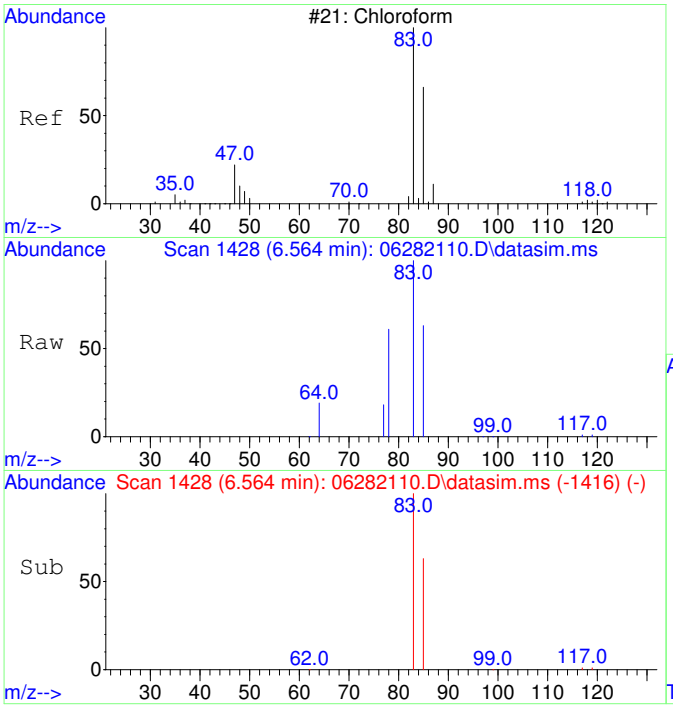


#5
cis-1,2-Dichloroethene
Concen: 4059.51 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 61 Resp: 29428

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

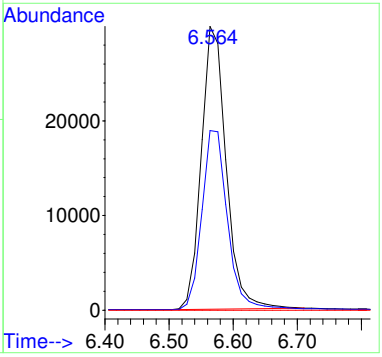


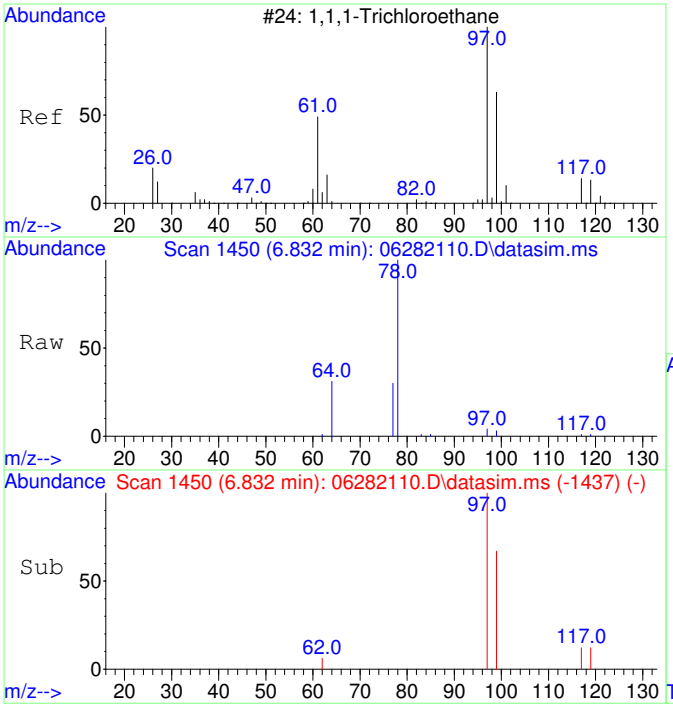


#6
Chloroform
Concen: 9420.09 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 83 Resp: 80368

Ion	Ratio	Lower	Upper
83	100		
85	64.7	34.5	94.5
87	0.0	0.0	20.0

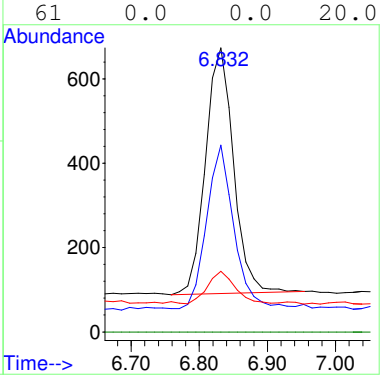


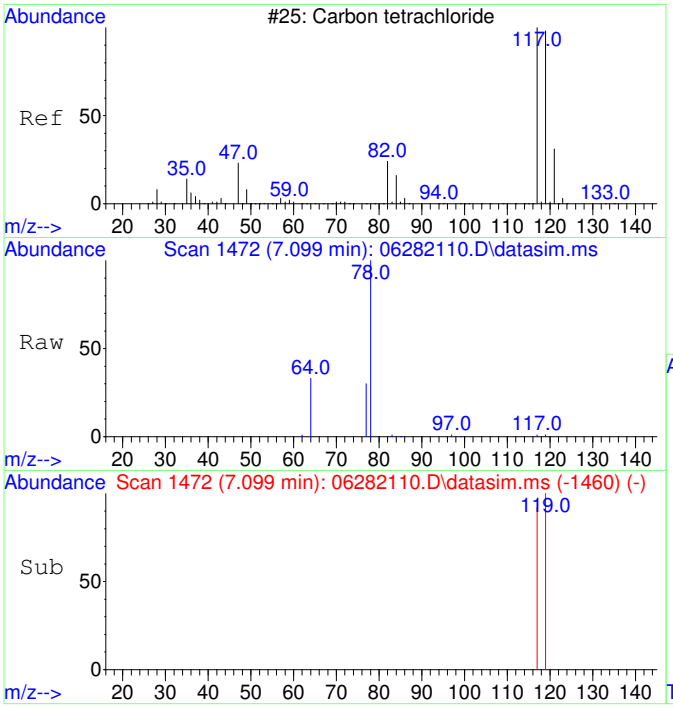


#7
1,1,1-Trichloroethane
Concen: 209.87 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 97 Resp: 1666

Ion	Ratio	Lower	Upper
97	100		
99	64.9	34.4	94.4
117	13.1	0.0	42.8
61	0.0	0.0	20.0

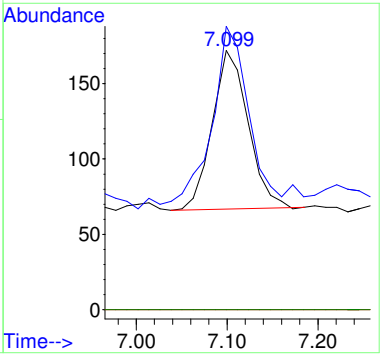


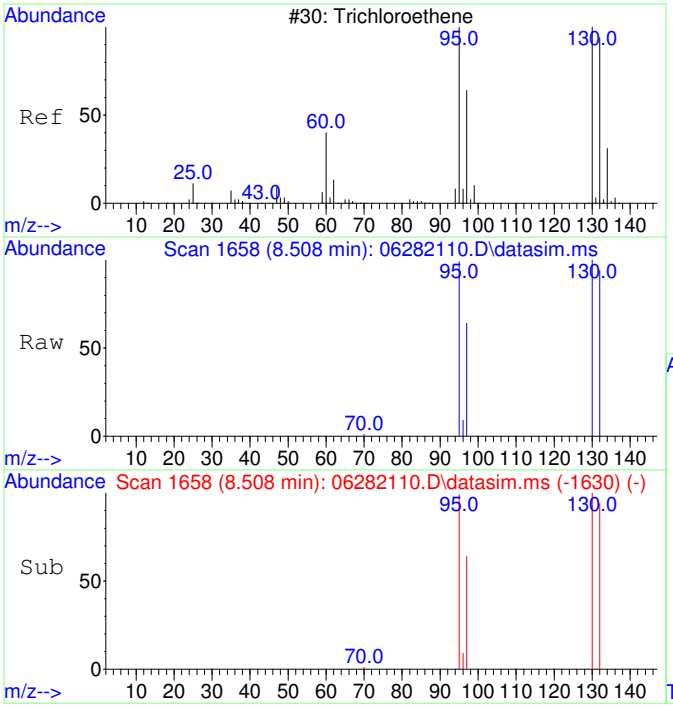


#8
Carbon tetrachloride
Concen: 41.64 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion:117 Resp: 288

Ion	Ratio	Lower	Upper
117	100		
119	123.3	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

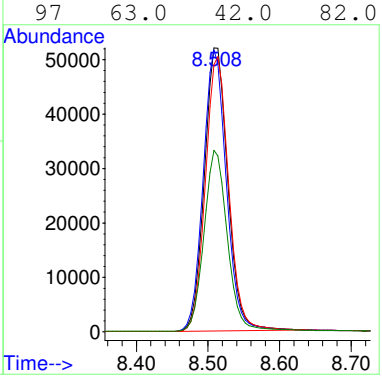


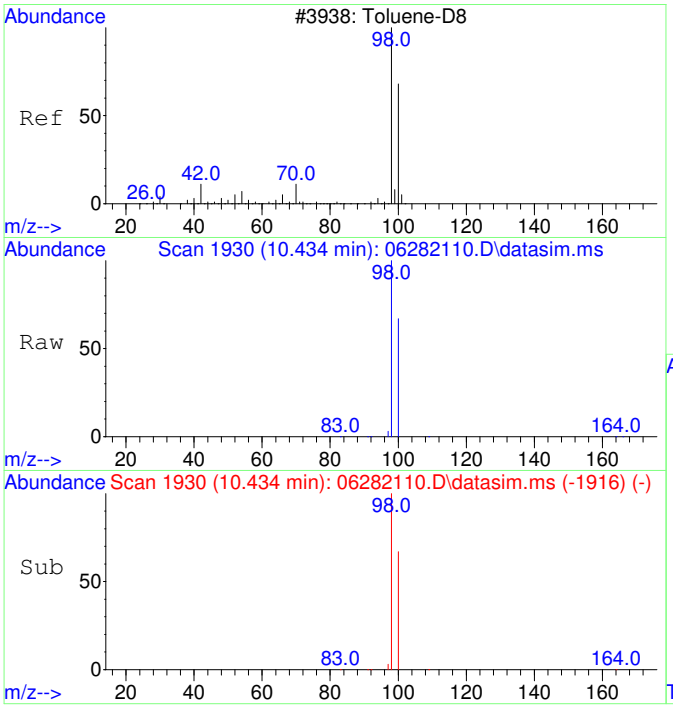


#11
Trichloroethene
Concen: 18524.80 ug/L
RT: 8.508 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion:130 Resp: 118236

Ion	Ratio	Lower	Upper
130	100		
95	98.0	65.8	125.8
132	96.0	75.8	115.8
97	63.0	42.0	82.0

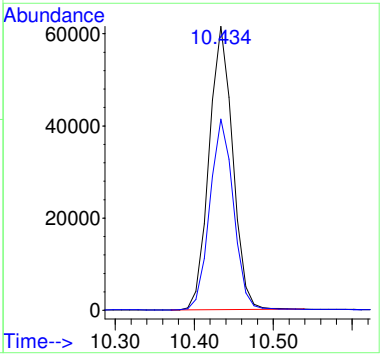


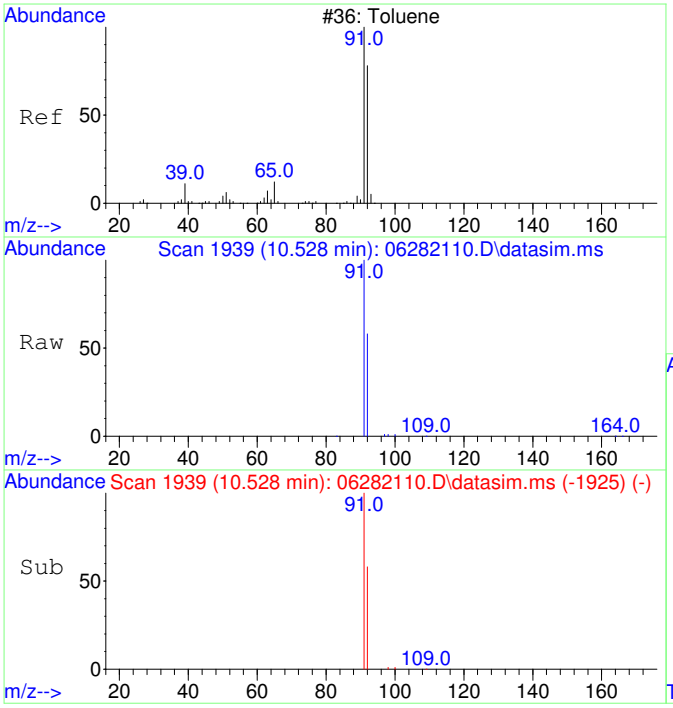


#12
Toluene-d8
Concen: 5062.59 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 98 Resp: 127614

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.3	97.3

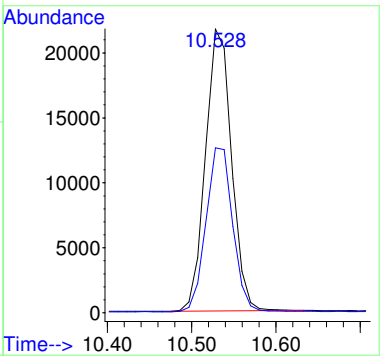


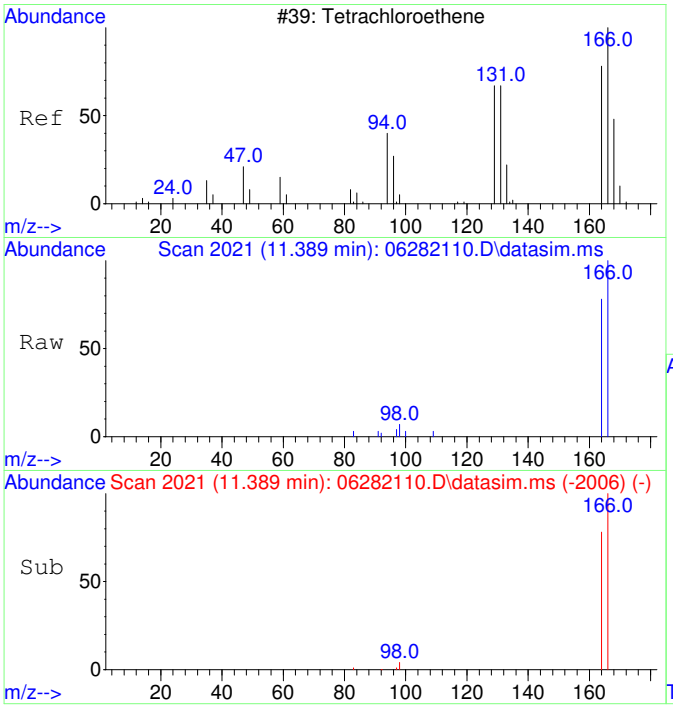


#13
Toluene
Concen: 1424.76 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 91 Resp: 46748

Ion	Ratio	Lower	Upper
91	100		
92	59.4	30.2	90.2

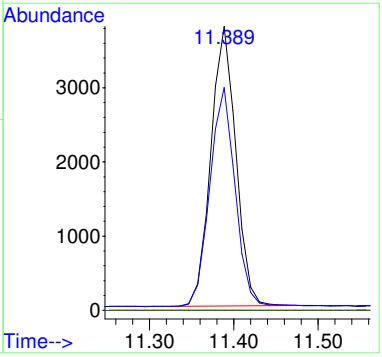


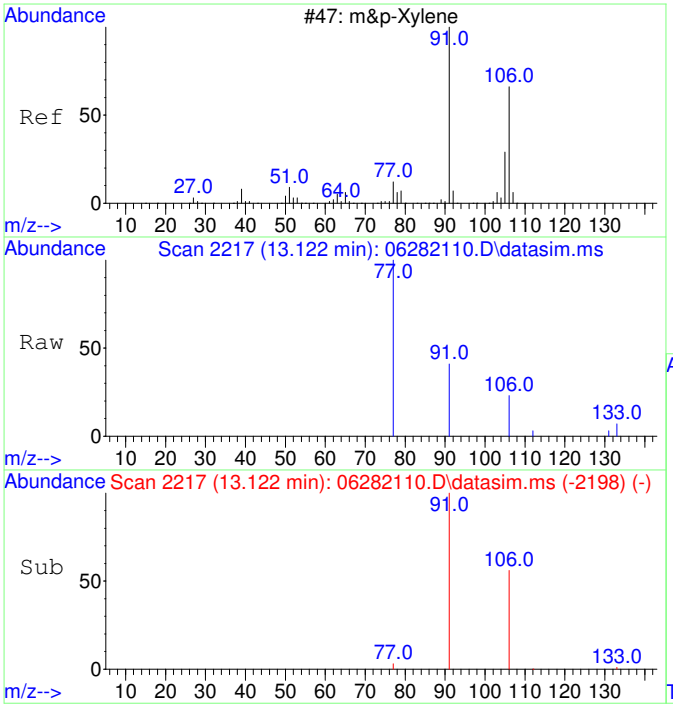


#15
Tetrachloroethene
Concen: 925.84 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion:166 Resp: 7771

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

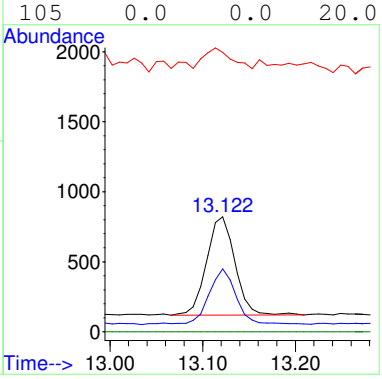


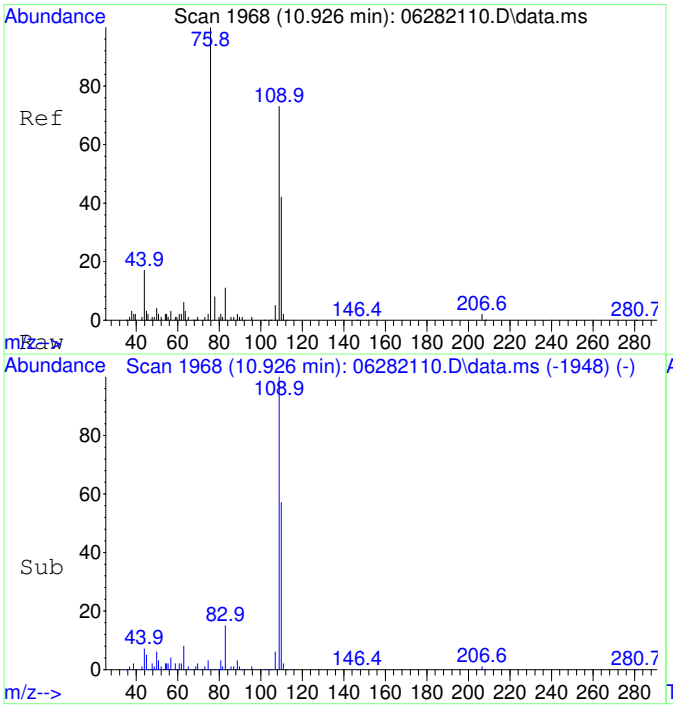


#19
m&p-Xylene
Concen: 45.13 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 91 Resp: 1498

Ion	Ratio	Lower	Upper
91	100		
106	52.4	21.4	81.4
77	22.0	0.0	42.7
105	0.0	0.0	20.0

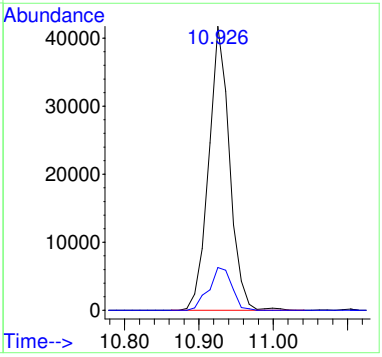


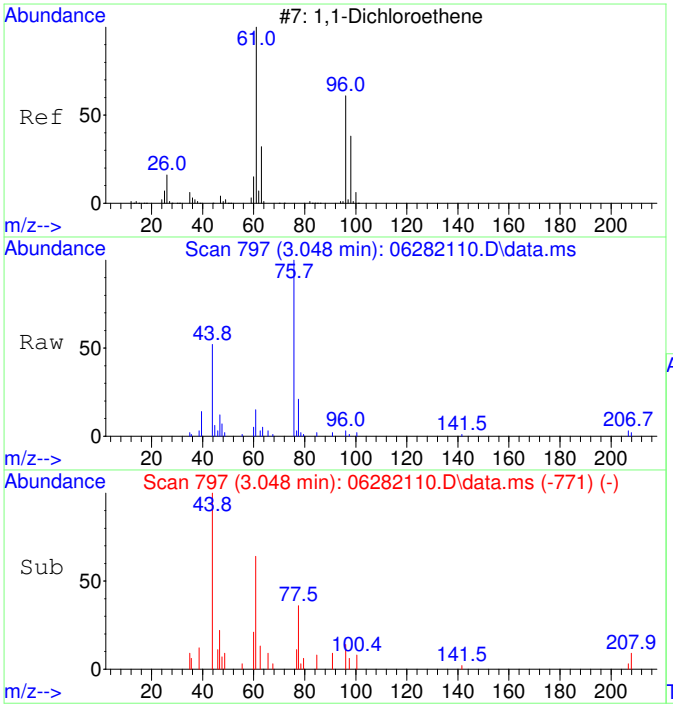


#25
2-Fluorotoluene SCAN
Concen: 4489.23 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion:109 Resp: 81314

Ion	Ratio	Lower	Upper
109	100		
83	16.6	0.0	44.5

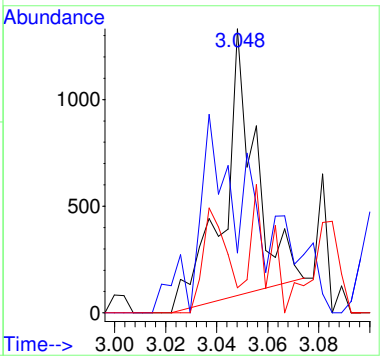


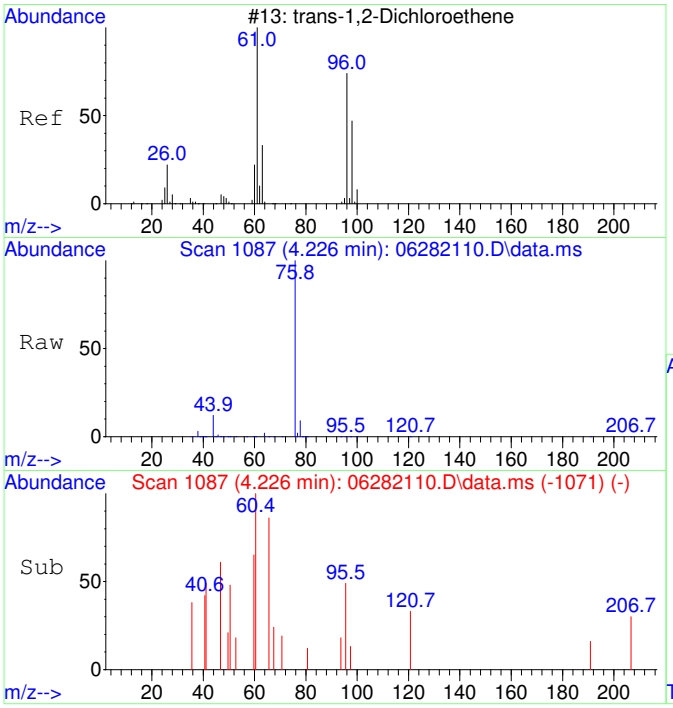


#26
1,1-Dichloroethene SCAN
Concen: 284.13 ug/L
RT: 3.048 min Scan# 797
Delta R.T. -0.004 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 61 Resp: 1087

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.0	93.0#
98	14.1	12.5	72.5

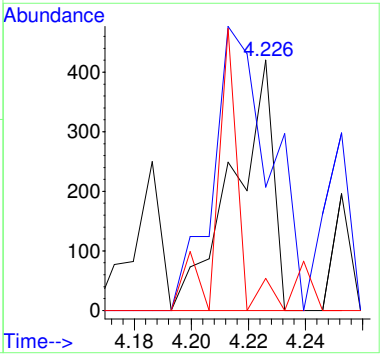


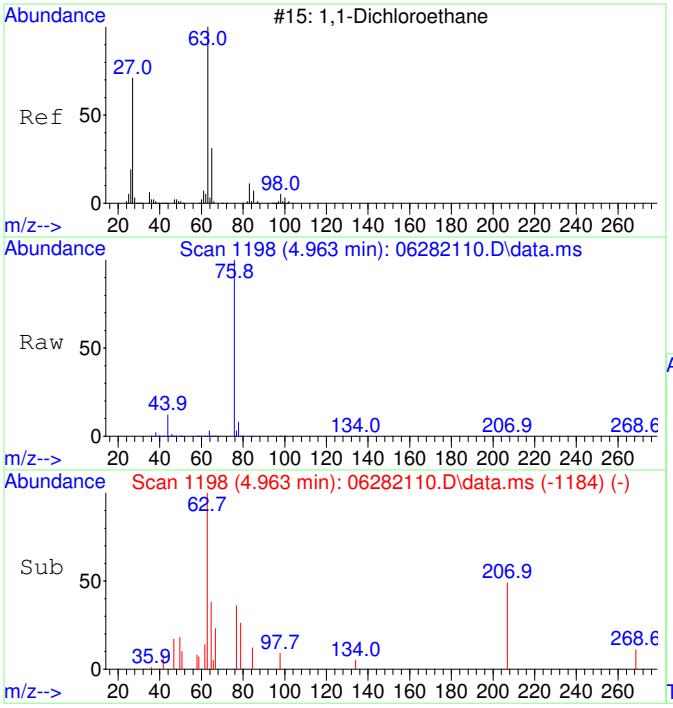


#27
trans-1,2-Dichloroethene SCAN
Concen: 99.06 ug/L
RT: 4.226 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 61 Resp: 410

Ion	Ratio	Lower	Upper
61	100		
96	161.2	49.3	109.3#
98	60.7	24.0	84.0

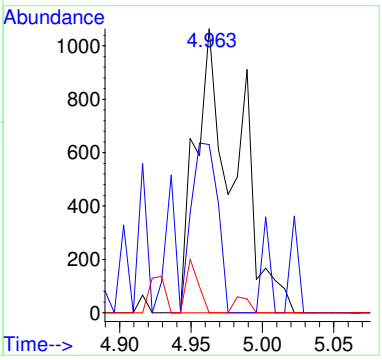


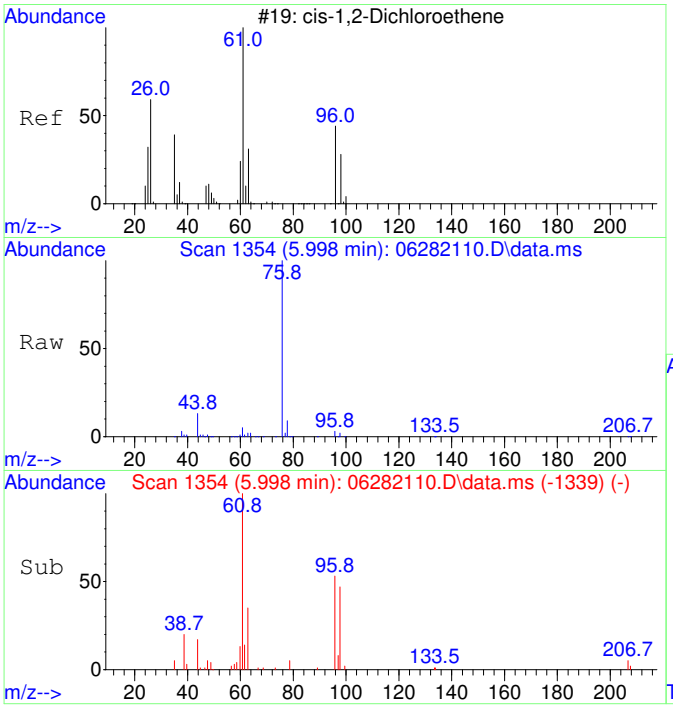


#28
1,1-Dichloroethane SCAN
Concen: 379.14 ug/L
RT: 4.963 min Scan# 1198
Delta R.T. -0.006 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 63 Resp: 2103

Ion	Ratio	Lower	Upper
63	100		
65	38.8	0.0	57.3
83	5.7	0.0	46.2

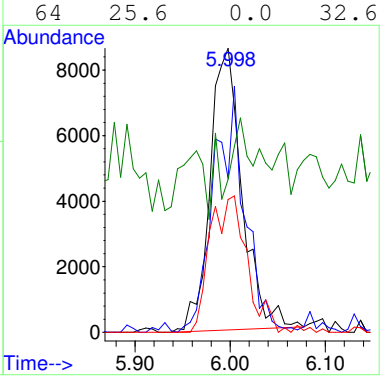


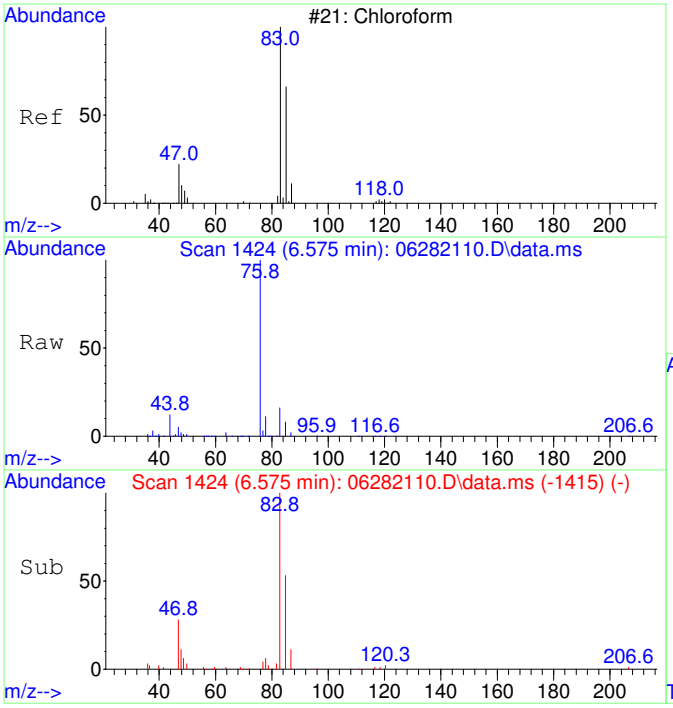


#29
cis-1,2-Dichloroethene SCAN
Concen: 3614.41 ug/L
RT: 5.998 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 61 Resp: 20226

Ion	Ratio	Lower	Upper
61	100		
96	82.8	36.9	96.9
98	55.5	12.1	72.1
64	25.6	0.0	32.6

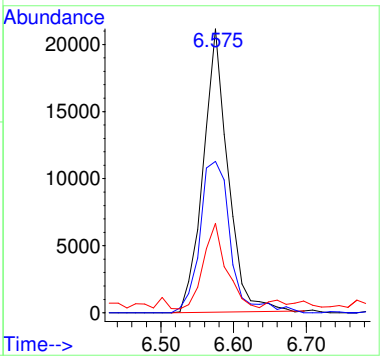


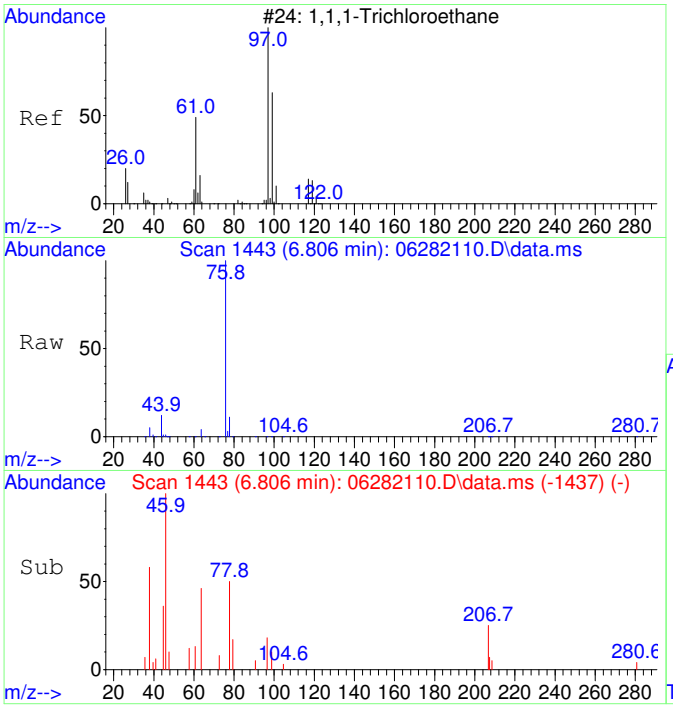


#30
Chloroform SCAN
Concen: 8462.37 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 83 Resp: 50081

Ion	Ratio	Lower	Upper
83	100		
85	66.3	27.1	87.1
47	27.3	7.5	67.5

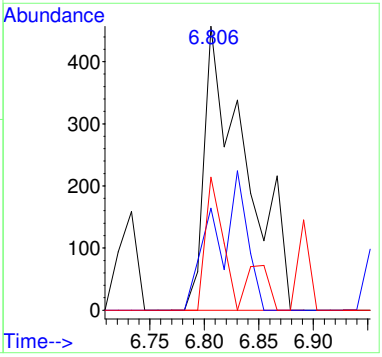


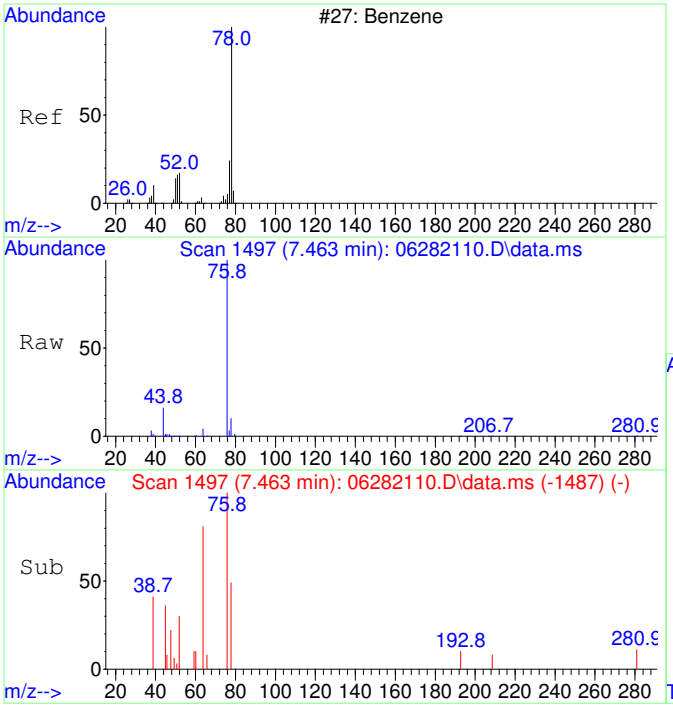


#31
1,1,1-Trichloroethane SCAN
Concen: 215.93 ug/L
RT: 6.806 min Scan# 1443
Delta R.T. -0.024 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 97 Resp: 1194

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	19.7	11.4	71.4

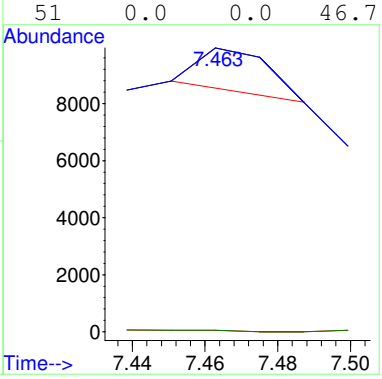


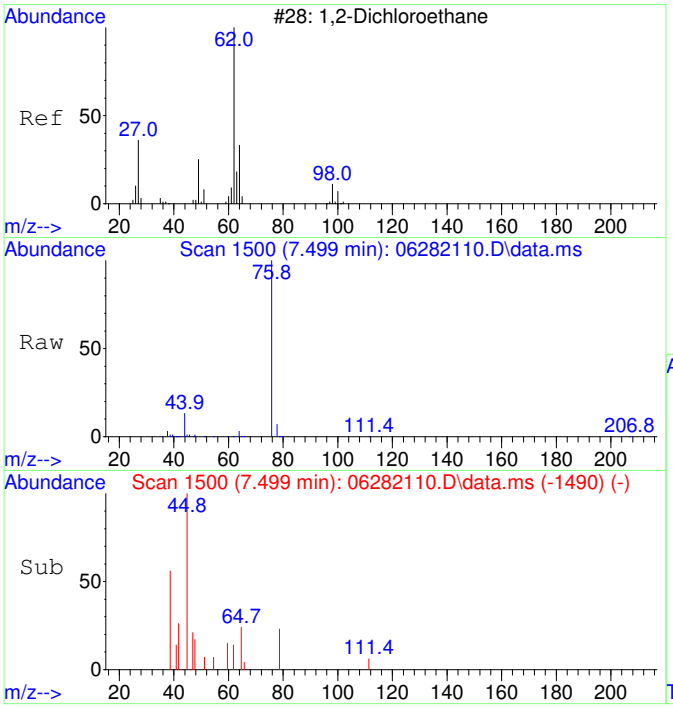


#33
Benzene SCAN
Concen: 124.47 ug/L
RT: 7.463 min Scan# 1497
Delta R.T. 0.025 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 78 Resp: 1728

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

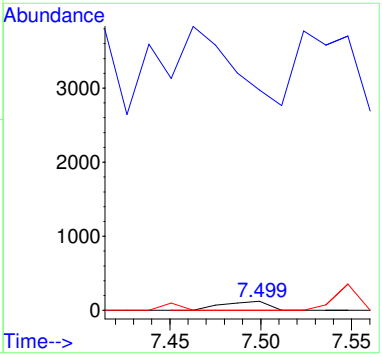


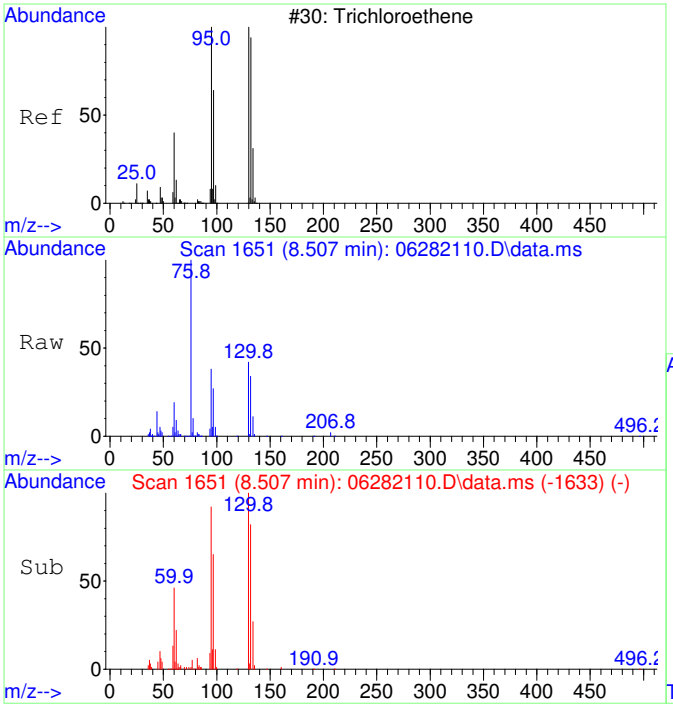


#34
1,2-Dichloroethane SCAN
Concen: 48.44 ug/L
RT: 7.499 min Scan# 1500
Delta R.T. 0.025 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 62 Resp: 212

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

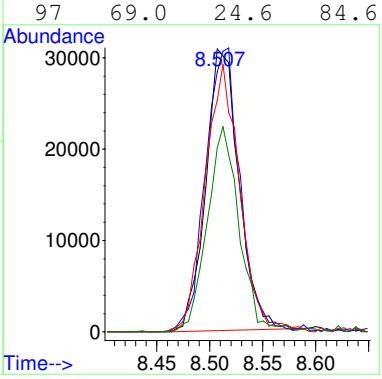


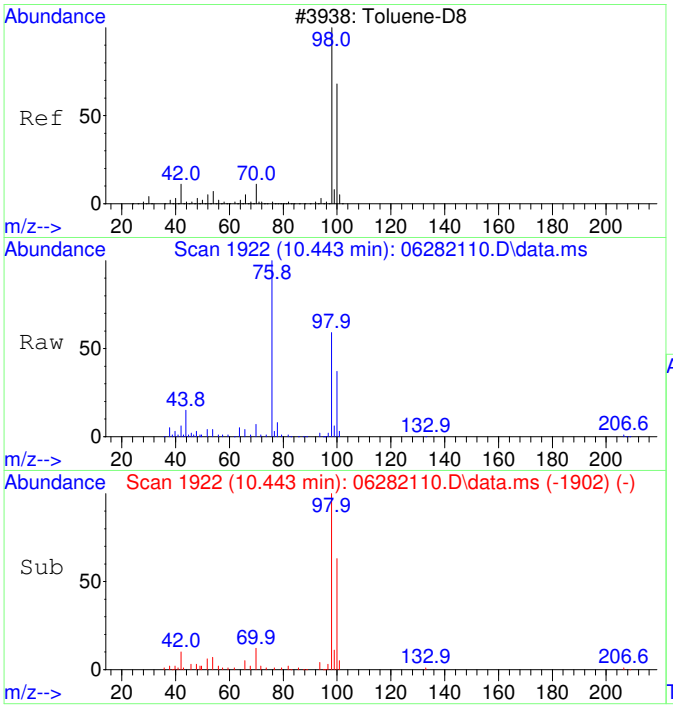


#35
Trichloroethene SCAN
Concen: 19063.50 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion:130 Resp: 67460

Ion	Ratio	Lower	Upper
130	100		
95	103.1	60.0	120.0
132	98.7	54.3	114.3
97	69.0	24.6	84.6

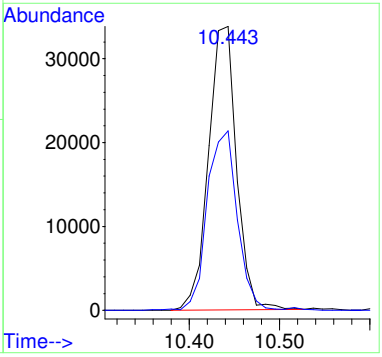


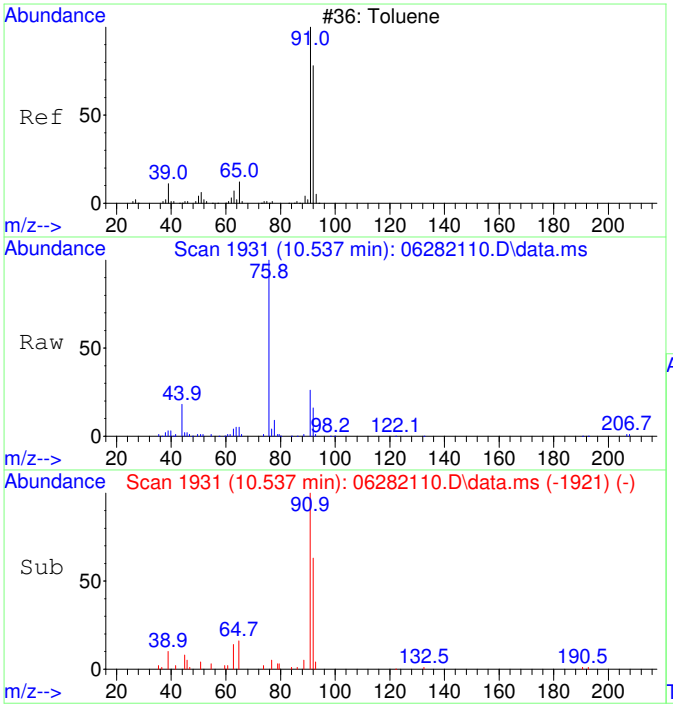


#36
Toluene-d8 SCAN
Concen: 4670.00 ug/L
RT: 10.443 min Scan# 1922
Delta R.T. 0.011 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 98 Resp: 73366

Ion	Ratio	Lower	Upper
98	100		
100	67.1	36.1	96.1

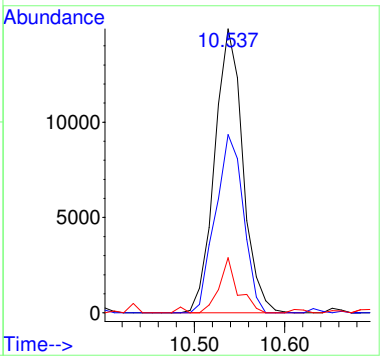


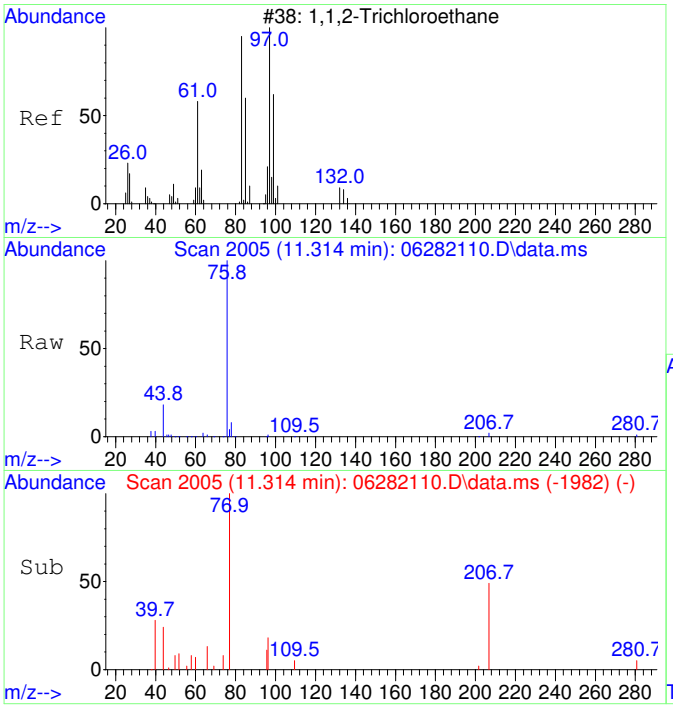


#37
Toluene SCAN
Concen: 1598.64 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 91 Resp: 32505

Ion	Ratio	Lower	Upper
91	100		
92	62.2	26.5	86.5
65	12.9	0.0	40.6

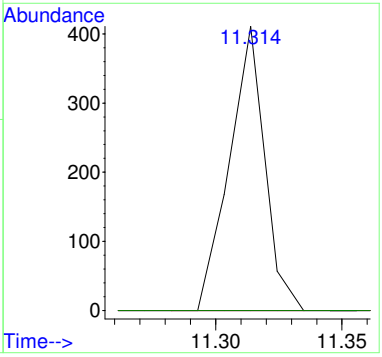


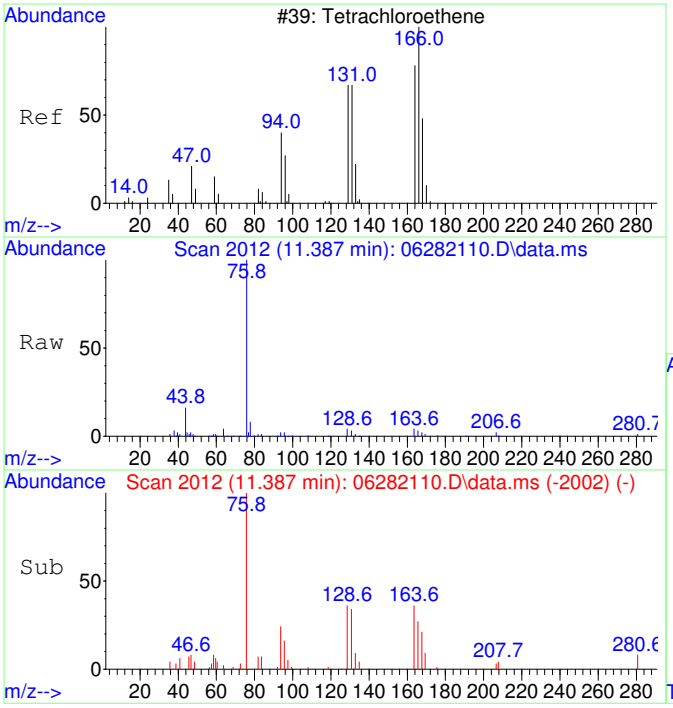


#38
1,1,2-Trichloroethane SCAN
Concen: 82.58 ug/L
RT: 11.314 min Scan# 2005
Delta R.T. 0.137 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 97 Resp: 400

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

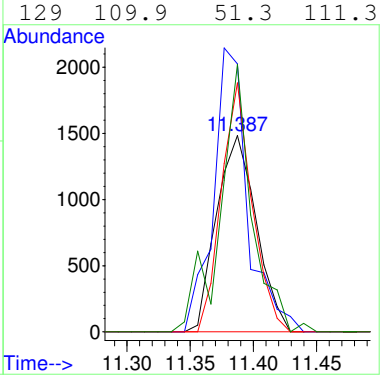


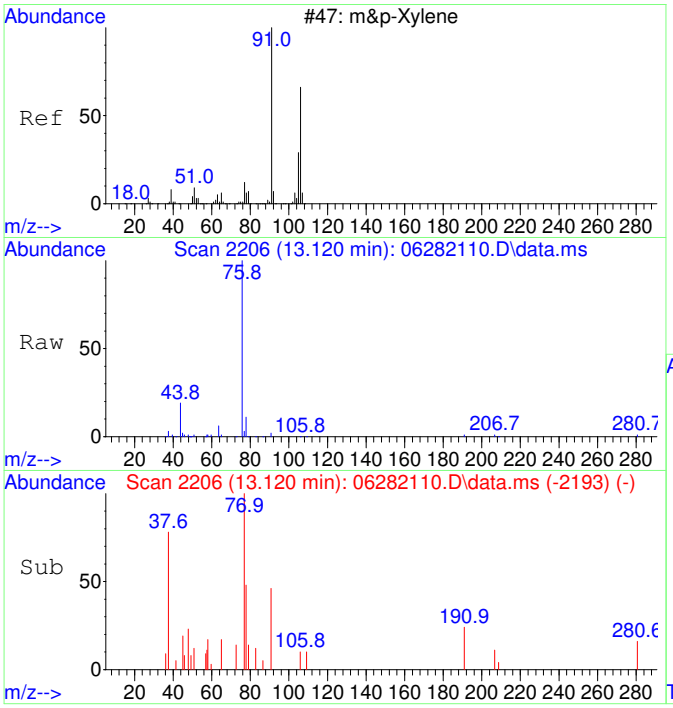


#39
Tetrachloroethene SCAN
Concen: 666.62 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion:166 Resp: 3264

Ion	Ratio	Lower	Upper
166	100		
164	124.2	53.9	113.9#
131	97.9	45.6	105.6
129	109.9	51.3	111.3

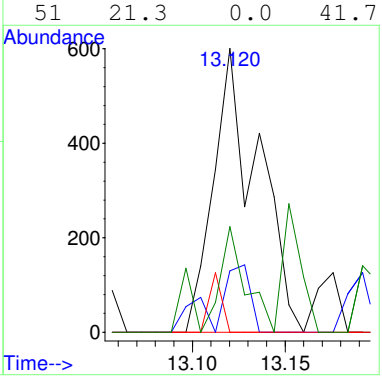




#43
m&p-Xylene SCAN
Concen: 24.98 ug/L
RT: 13.120 min Scan# 2206
Delta R.T. 0.000 min
Lab File: 06282110.D
Acq: 28 Jun 2021 12:54

Tgt Ion: 91 Resp: 1010

Ion	Ratio	Lower	Upper
91	100		
106	18.9	21.2	81.2#
105	5.9	0.0	51.6
51	21.3	0.0	41.7



2106037-03

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282111.D
Acq On : 28 Jun 2021 13:21
InstName : AG5975C
Operator : TD
Sample : 2106037-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 28 13:56:34 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

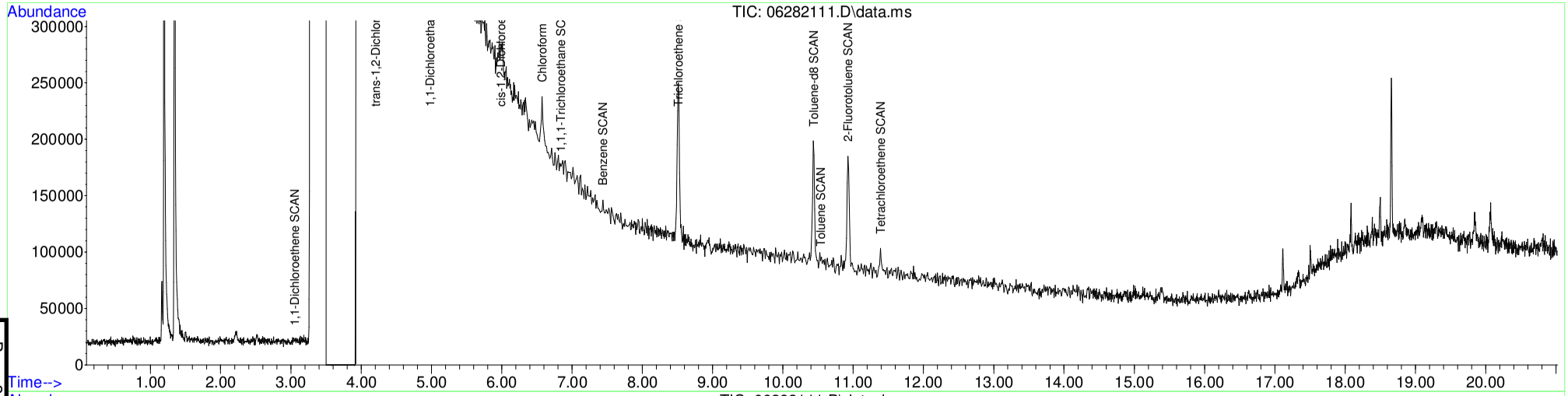
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	162765	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	140772	5049.16 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.98%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.049	61	2217	312.72 ug/L #	99
3] trans-1,2-Dichloroethene	4.214	61	1356	222.25 ug/L #	99
4] 1,1-Dichloroethane	4.971	63	2256	269.60 ug/L #	86
5] cis-1,2-Dichloroethene	5.992	61	27738	3459.53 ug/L #	100
6] Chloroform	6.564	83	56561	5994.02 ug/L #	100
7] 1,1,1-Trichloroethane	6.832	97	1358	154.67 ug/L #	97
8] Carbon tetrachloride	7.099	117	211	27.58 ug/L #	83
11] Trichloroethene	8.508	130	97012	13742.25 ug/L	99
13] Toluene	10.528	91	11246	309.89 ug/L	99
15] Tetrachloroethene	11.389	166	6503	700.49 ug/L #	100
19] m&p-Xylene	13.122	91	1378	37.53 ug/L #	92
25) 2-Fluorotoluene SCAN	10.926	109	99095	4946.37 ug/L	93
26) 1,1-Dichloroethene SCAN	3.052	61	465	109.89 ug/L #	46
27) trans-1,2-Dichloroethe...	4.206	61	452	98.74 ug/L #	66
28) 1,1-Dichloroethane SCAN	4.976	63	741	120.78 ug/L #	31
29) cis-1,2-Dichloroethene...	5.984	61	21433	3462.89 ug/L #	24
30) Chloroform SCAN	6.575	83	35503	5423.91 ug/L	87
31) 1,1,1-Trichloroethane ...	6.843	97	1330	217.46 ug/L #	54
33) Benzene SCAN	7.439	78	6429	418.68 ug/L #	90
35) Trichloroethene SCAN	8.507	130	58976	15068.17 ug/L	87
36) Toluene-d8 SCAN	10.432	98	84207	4846.17 ug/L	100
37) Toluene SCAN	10.537	91	7567	336.48 ug/L	91
39) Tetrachloroethene SCAN	11.387	166	4501	831.12 ug/L #	68

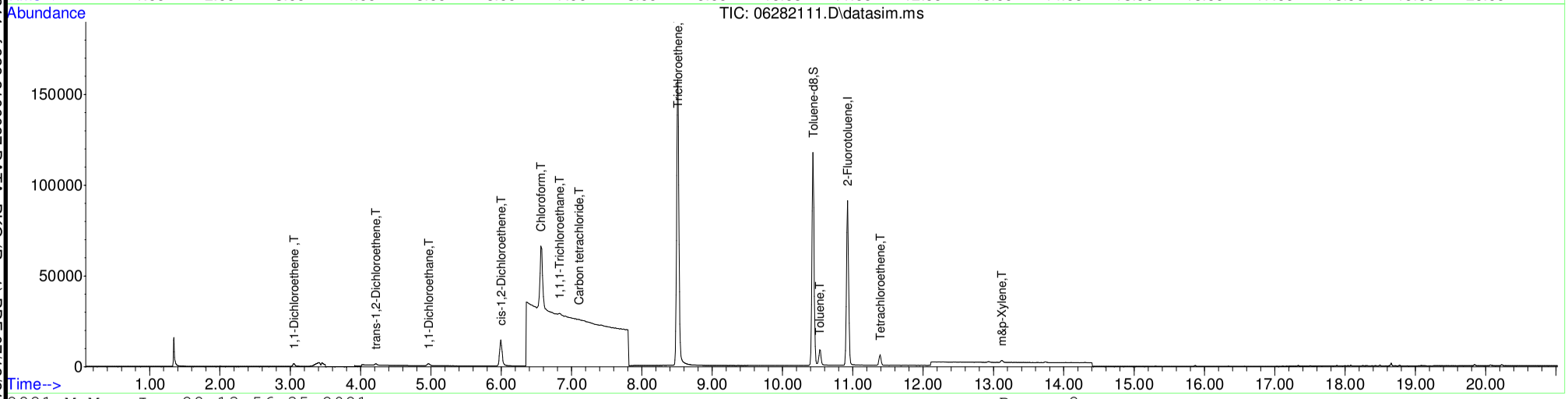
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282111.D
Acq On : 28 Jun 2021 13:21
InstName : AG5975C
Operator : TD
Sample : 2106037-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 28 13:56:34 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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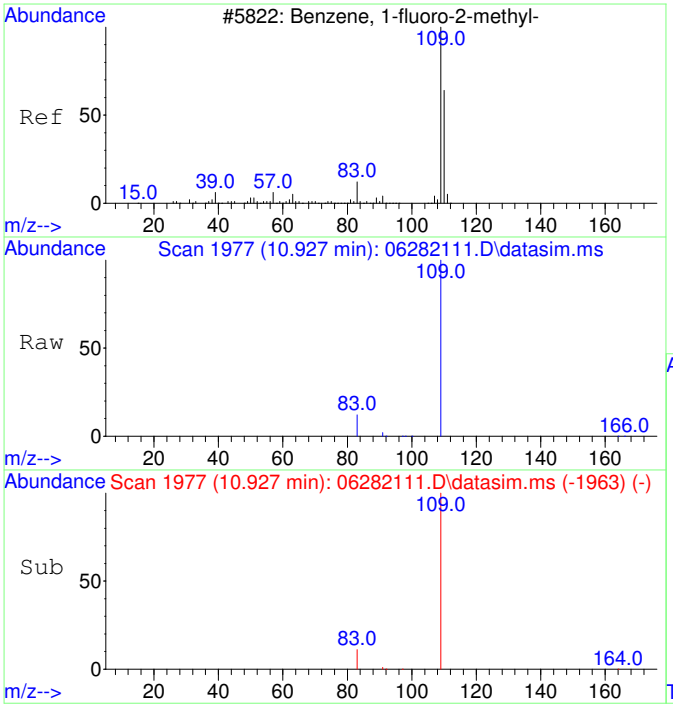
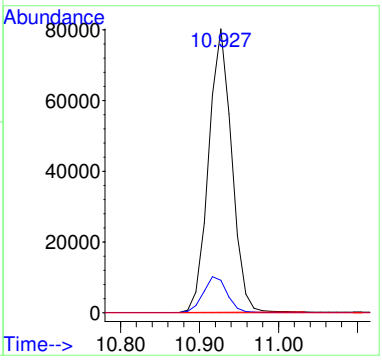
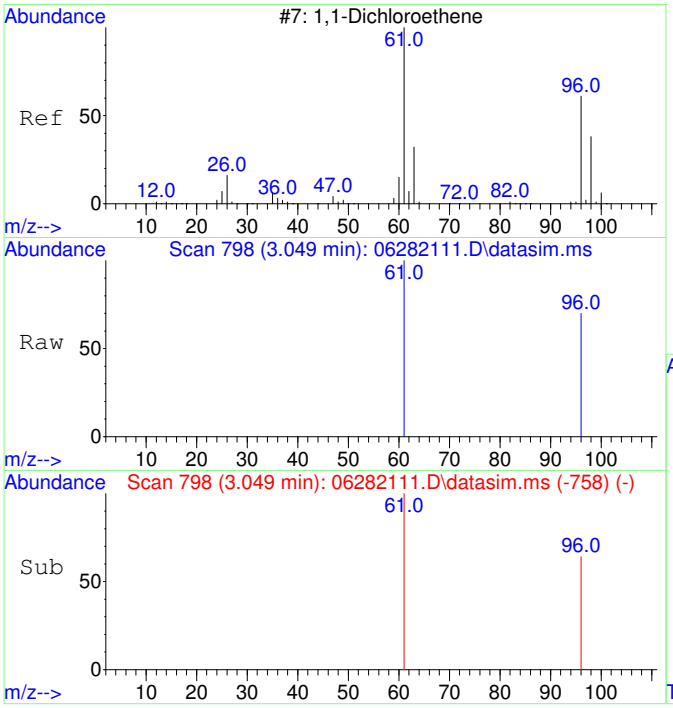


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion:109 Resp: 162765

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

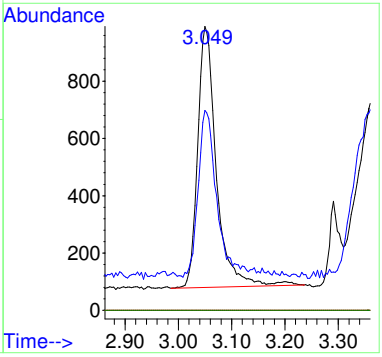


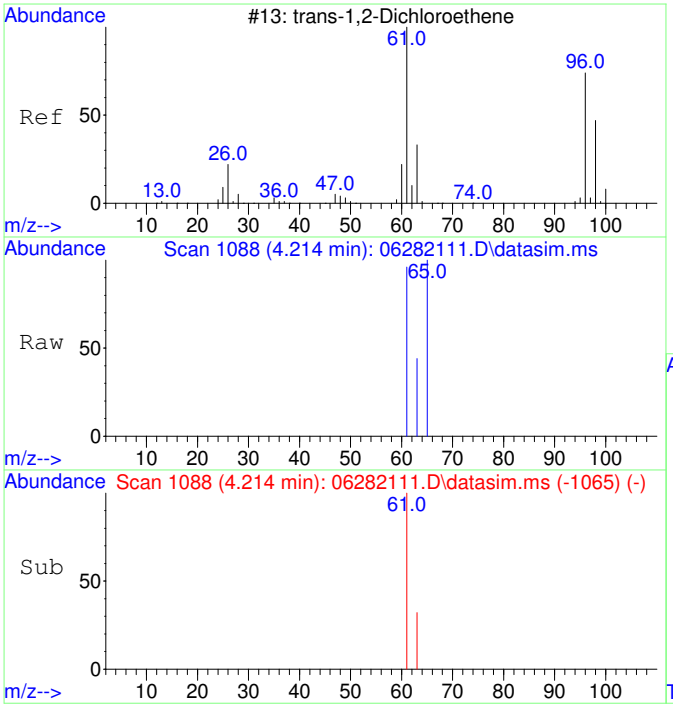


#2
1,1-Dichloroethene
Concen: 312.72 ug/L
RT: 3.049 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 61 Resp: 2217

Ion	Ratio	Lower	Upper
61	100		
96	64.0	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

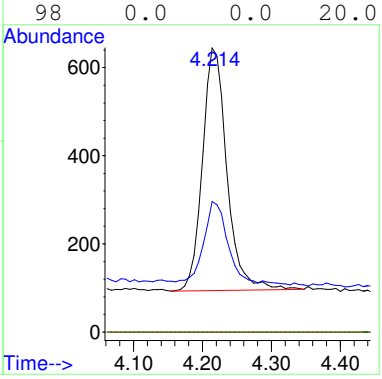


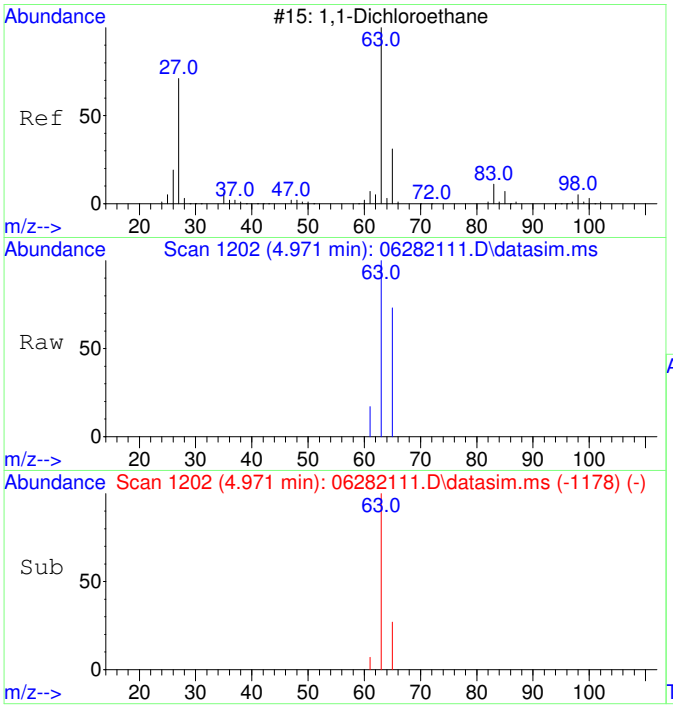


#3
trans-1,2-Dichloroethene
Concen: 222.25 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 61 Resp: 1356

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

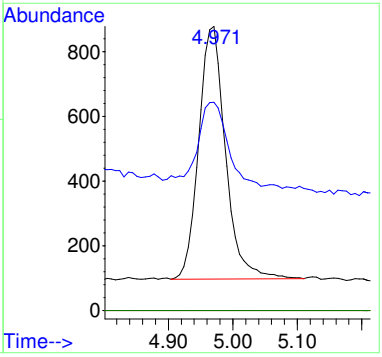


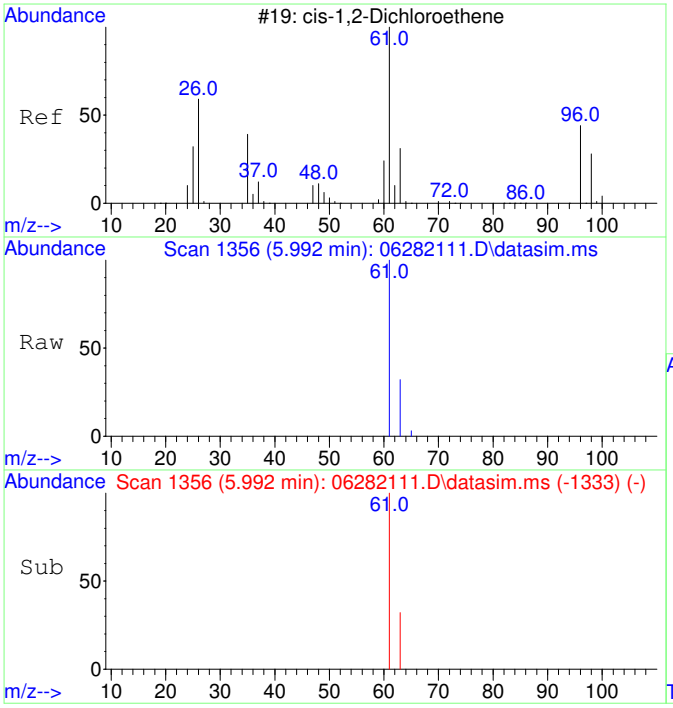


#4
1,1-Dichloroethane
Concen: 269.60 ug/L
RT: 4.971 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 63 Resp: 2256

Ion	Ratio	Lower	Upper
63	100		
65	38.8	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

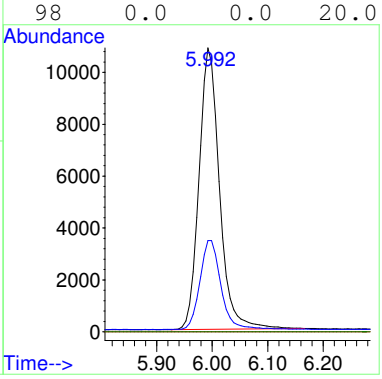


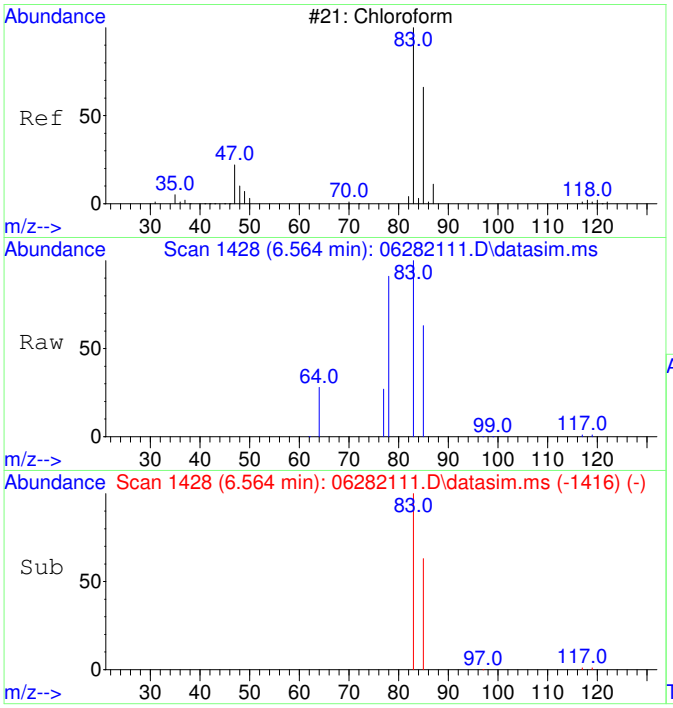


#5
cis-1,2-Dichloroethene
Concen: 3459.53 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 61 Resp: 27738

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

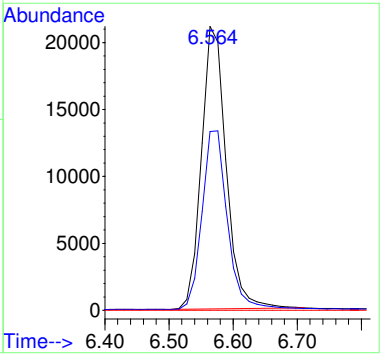


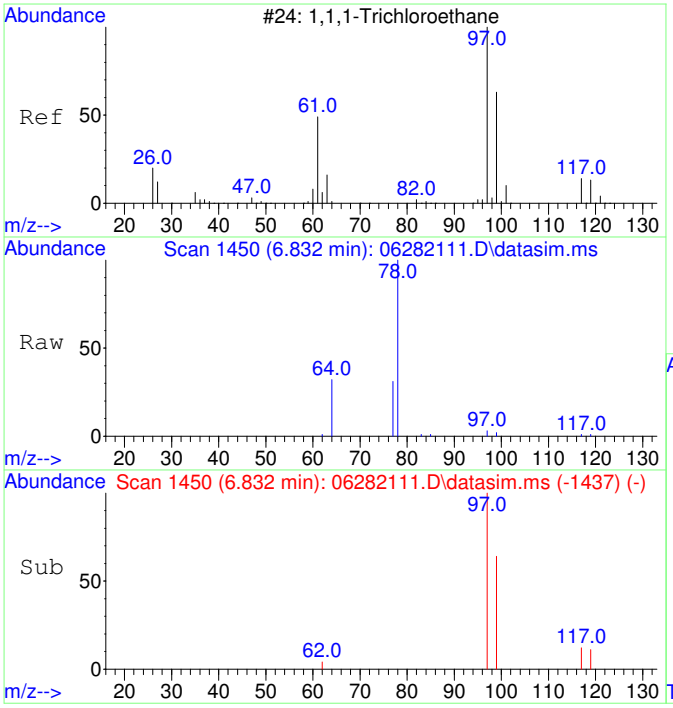


#6
Chloroform
Concen: 5994.02 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 83 Resp: 56561

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.5	94.5
87	0.0	0.0	20.0

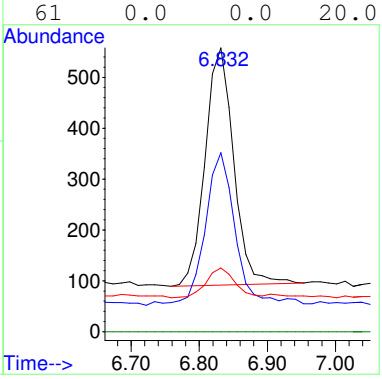


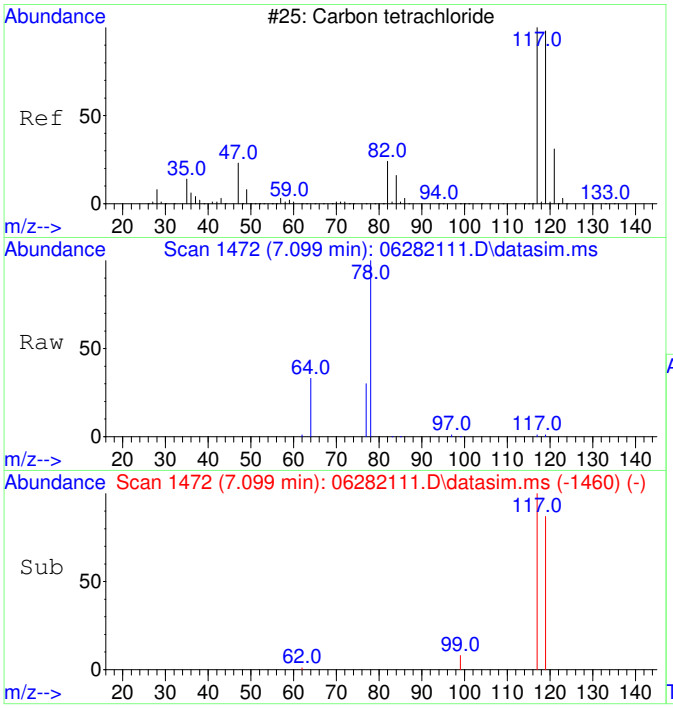


#7
1,1,1-Trichloroethane
Concen: 154.67 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 97 Resp: 1358

Ion	Ratio	Lower	Upper
97	100		
99	67.0	34.4	94.4
117	12.5	0.0	42.8
61	0.0	0.0	20.0

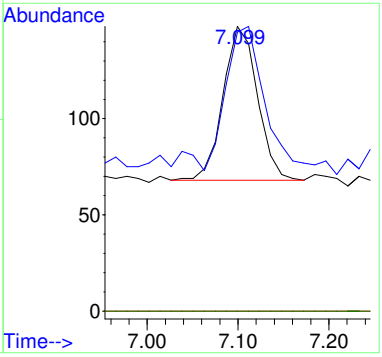


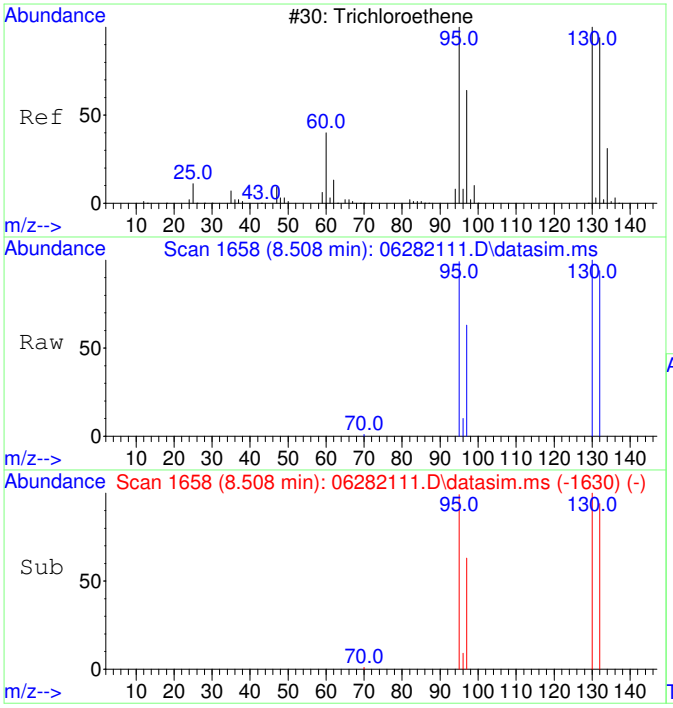


#8
Carbon tetrachloride
Concen: 27.58 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion:117 Resp: 211

Ion	Ratio	Lower	Upper
117	100		
119	113.3	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

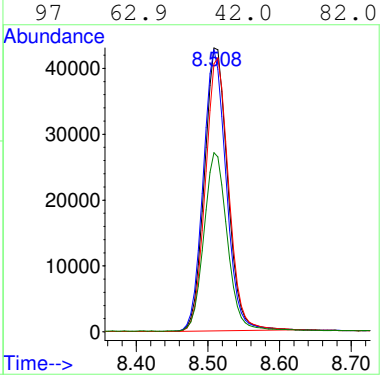


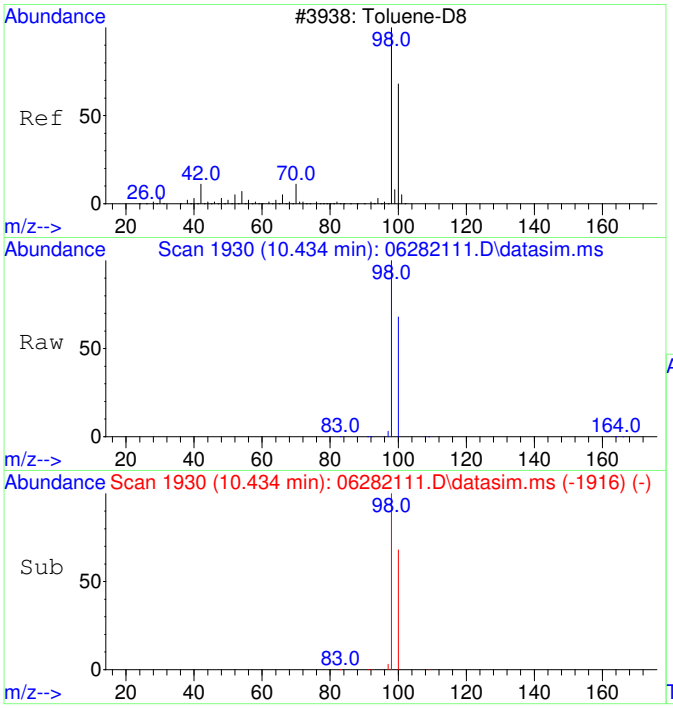


#11
Trichloroethene
Concen: 13742.25 ug/L
RT: 8.508 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion:130 Resp: 97012

Ion	Ratio	Lower	Upper
130	100		
95	97.9	65.8	125.8
132	96.2	75.8	115.8
97	62.9	42.0	82.0

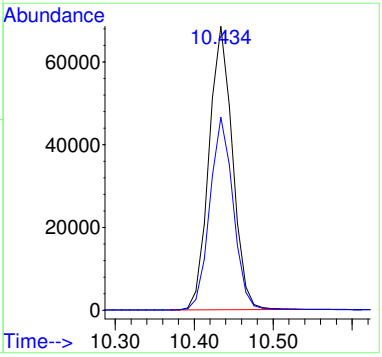


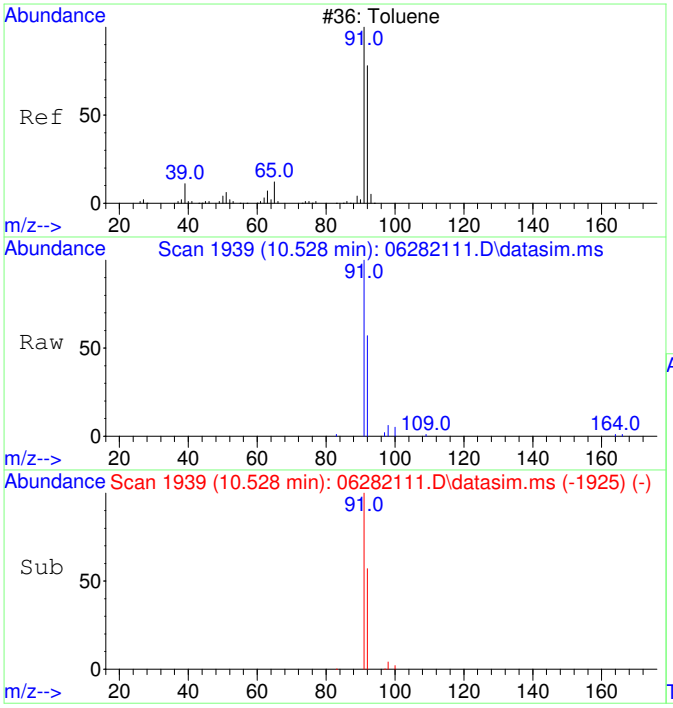


#12
Toluene-d8
Concen: 5049.16 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 98 Resp: 140772

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.3	97.3

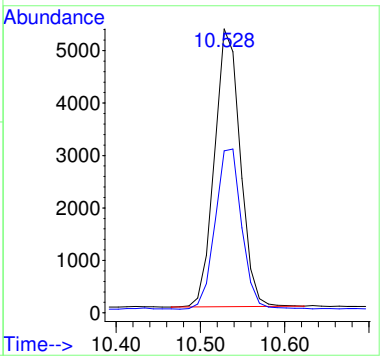


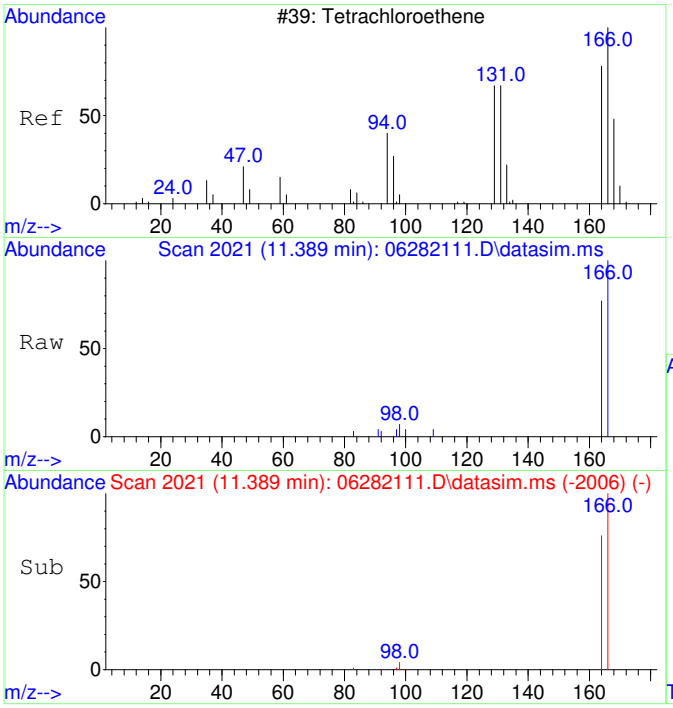


#13
Toluene
Concen: 309.89 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 91 Resp: 11246

Ion	Ratio	Lower	Upper
91	100		
92	59.5	30.2	90.2

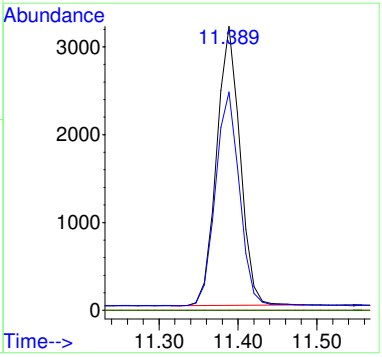


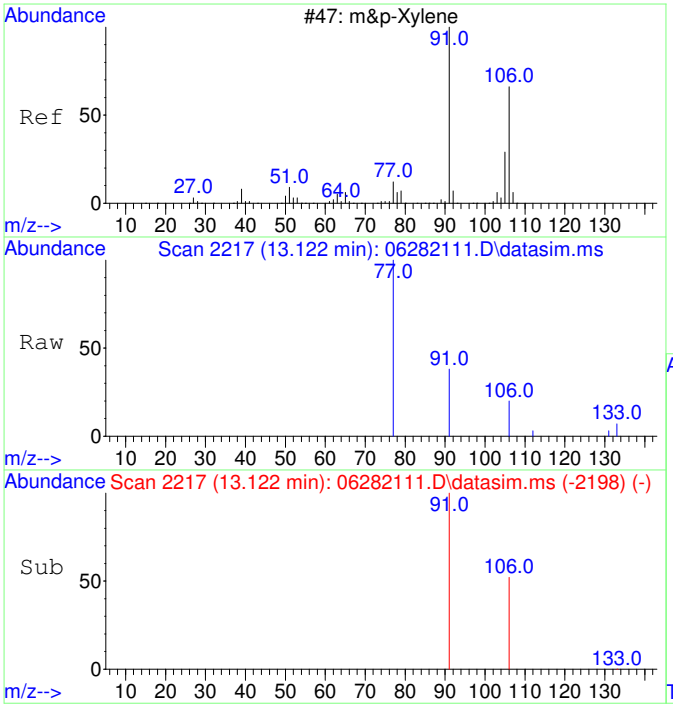


#15
Tetrachloroethene
Concen: 700.49 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion:166 Resp: 6503

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

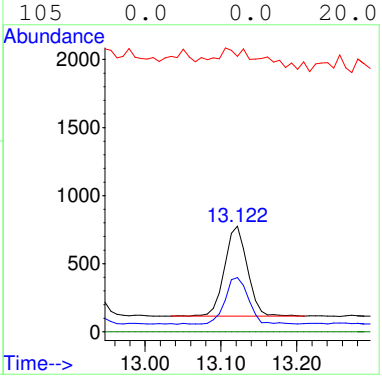


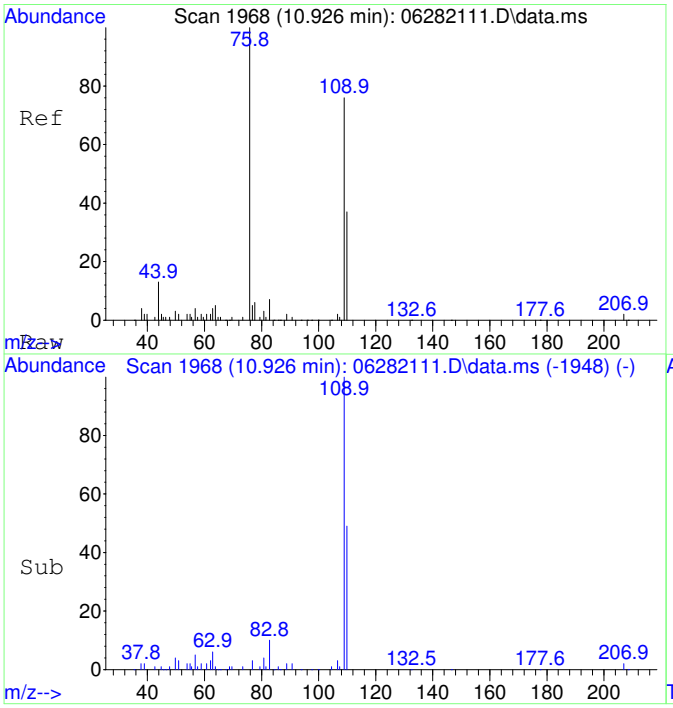


#19
m&p-Xylene
Concen: 37.53 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 91 Resp: 1378

Ion	Ratio	Lower	Upper
91	100		
106	52.4	21.4	81.4
77	26.8	0.0	42.7
105	0.0	0.0	20.0

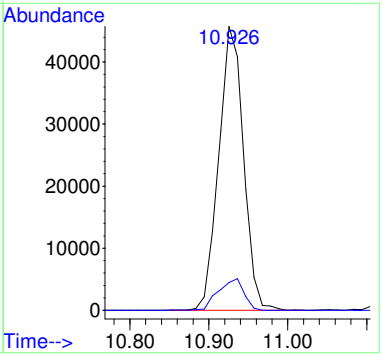


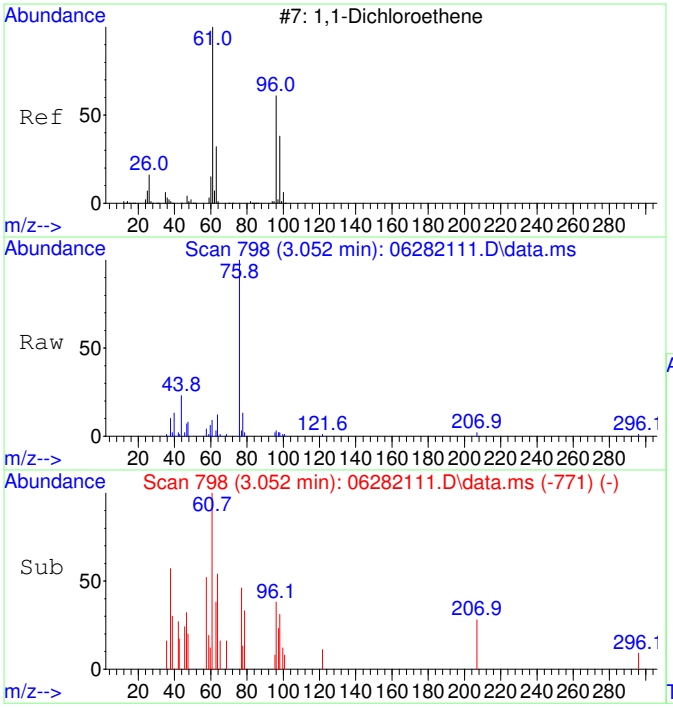


#25
2-Fluorotoluene SCAN
Concen: 4946.37 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion:109 Resp: 99095

Ion	Ratio	Lower	Upper
109	100		
83	11.6	0.0	44.5

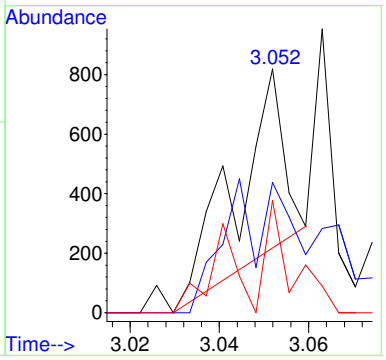


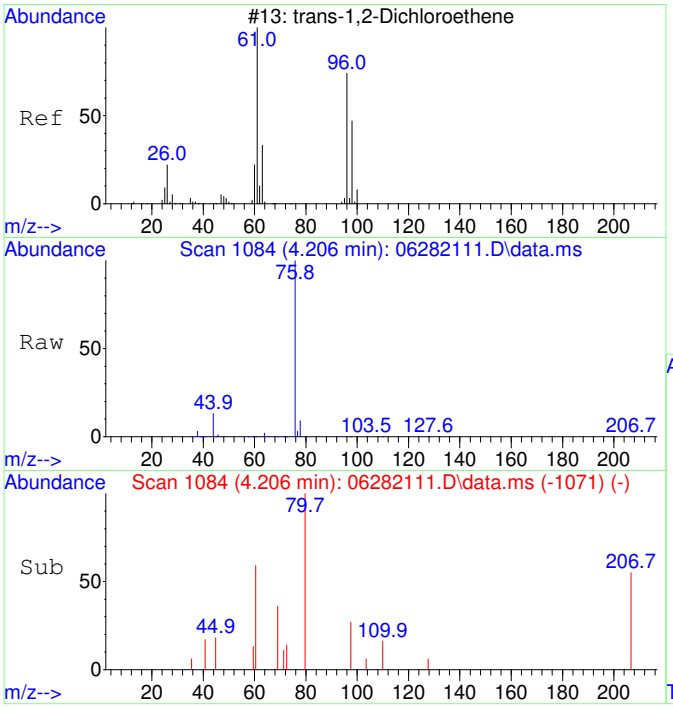


#26
1,1-Dichloroethene SCAN
Concen: 109.89 ug/L
RT: 3.052 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 61 Resp: 465

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.0	93.0#
98	33.3	12.5	72.5

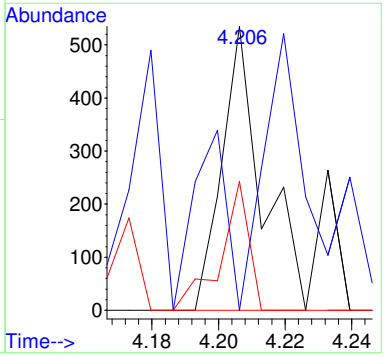


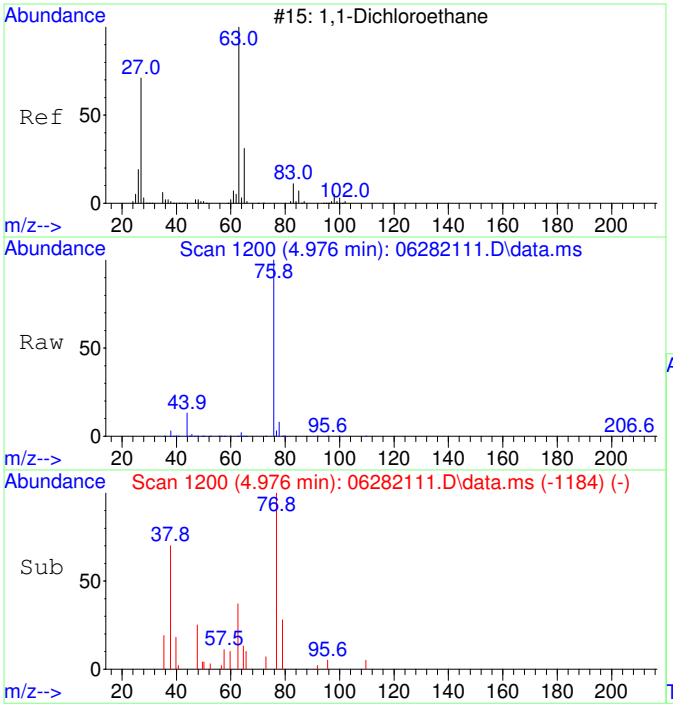


#27
trans-1,2-Dichloroethene SCAN
Concen: 98.74 ug/L
RT: 4.206 min Scan# 1084
Delta R.T. -0.013 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 61 Resp: 452

Ion	Ratio	Lower	Upper
61	100		
96	110.4	49.3	109.3#
98	31.6	24.0	84.0

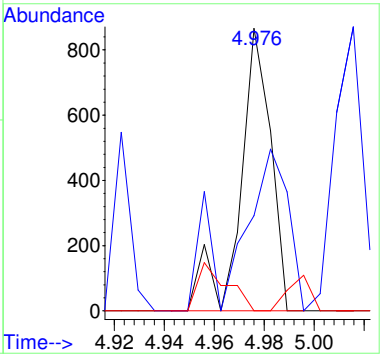


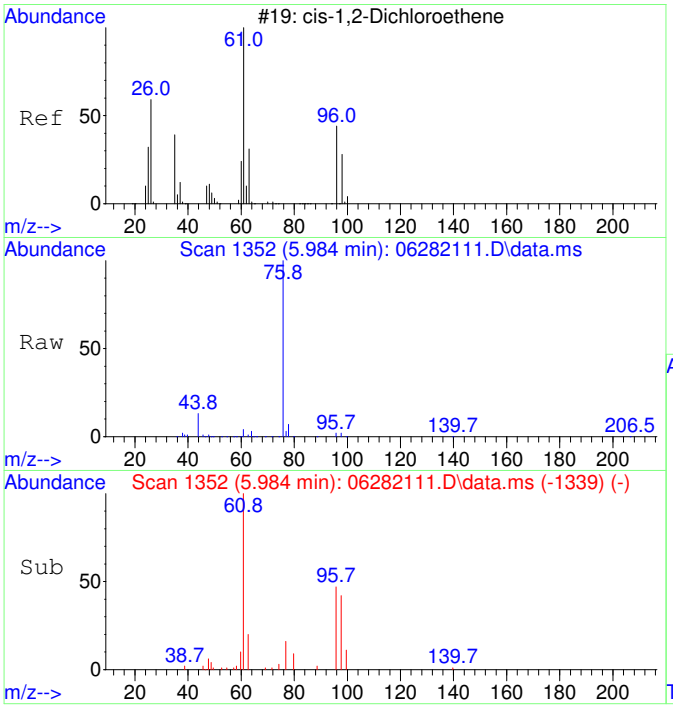


#28
1,1-Dichloroethane SCAN
Concen: 120.78 ug/L
RT: 4.976 min Scan# 1200
Delta R.T. 0.007 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 63 Resp: 741

Ion	Ratio	Lower	Upper
63	100		
65	73.0	0.0	57.3#
83	0.0	0.0	46.2

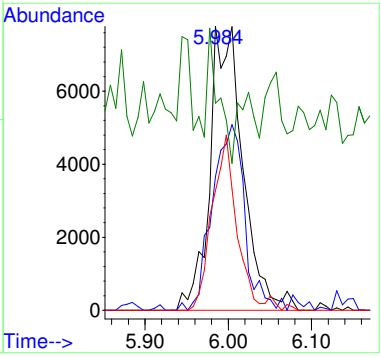


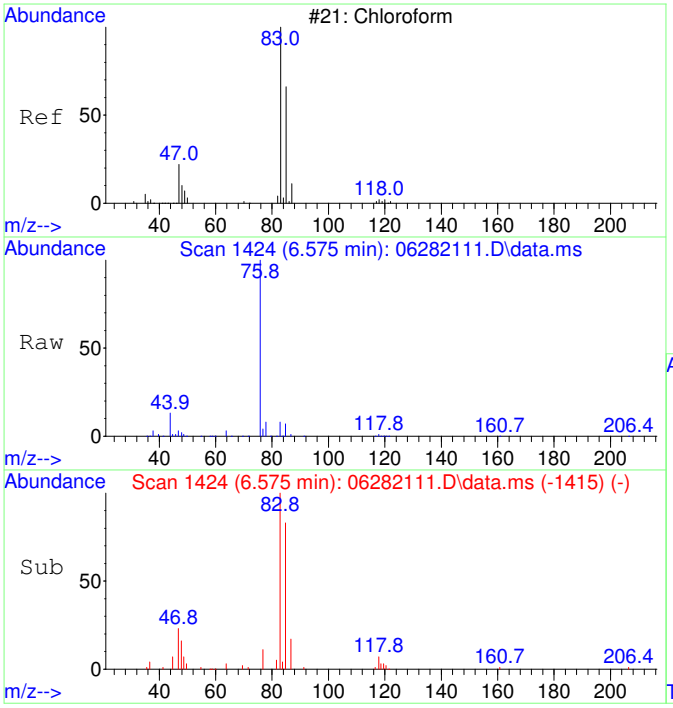


#29
cis-1,2-Dichloroethene SCAN
Concen: 3462.89 ug/L
RT: 5.984 min Scan# 1352
Delta R.T. -0.013 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 61 Resp: 21433

Ion	Ratio	Lower	Upper
61	100		
96	0.0	36.9	96.9#
98	0.0	12.1	72.1#
64	12.1	0.0	32.6

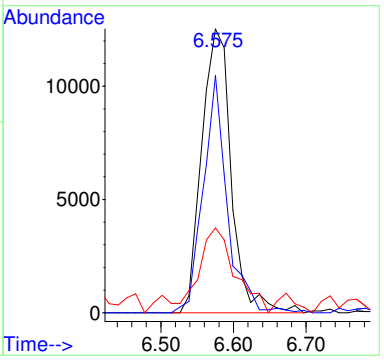


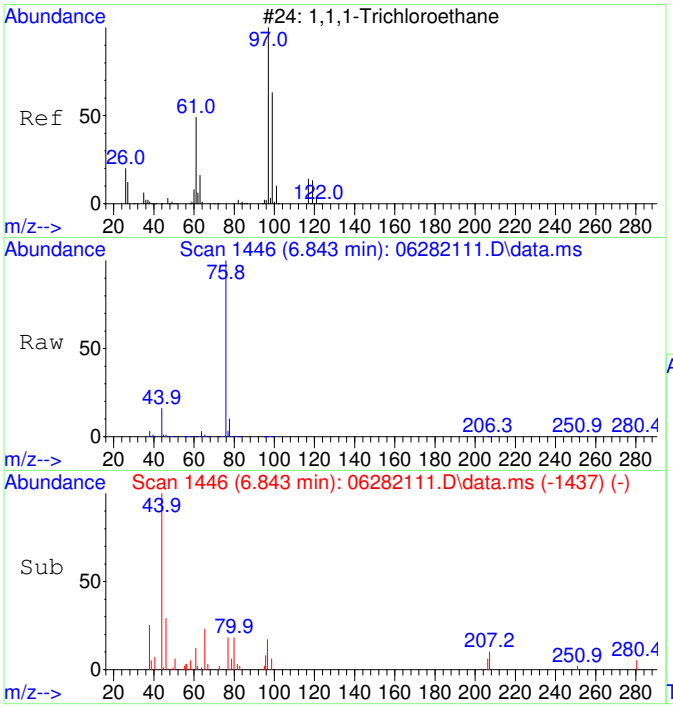


#30
Chloroform SCAN
Concen: 5423.91 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 83 Resp: 35503

Ion	Ratio	Lower	Upper
83	100		
85	67.9	27.1	87.1
47	31.5	7.5	67.5

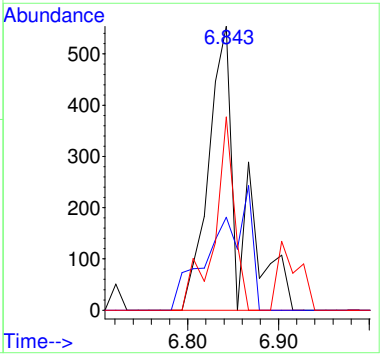


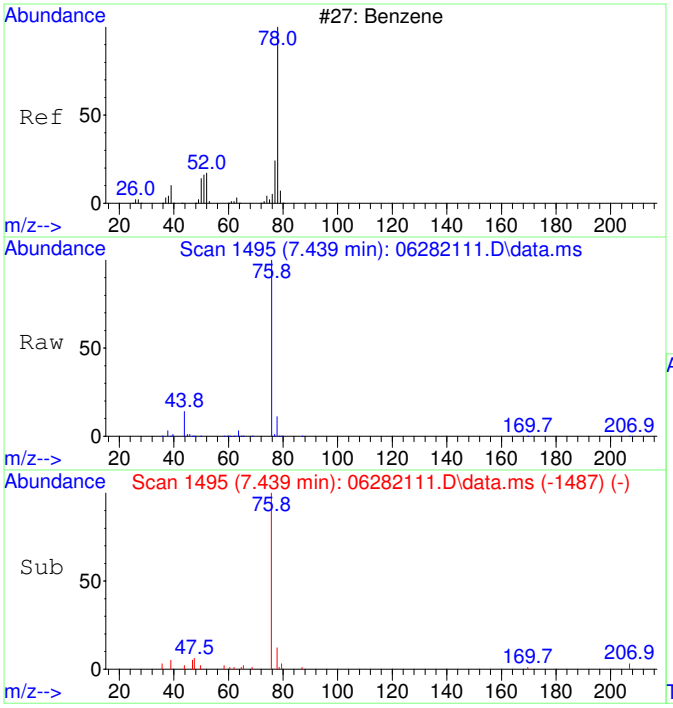


#31
1,1,1-Trichloroethane SCAN
Concen: 217.46 ug/L
RT: 6.843 min Scan# 1446
Delta R.T. 0.012 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 97 Resp: 1330

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	43.6	11.4	71.4

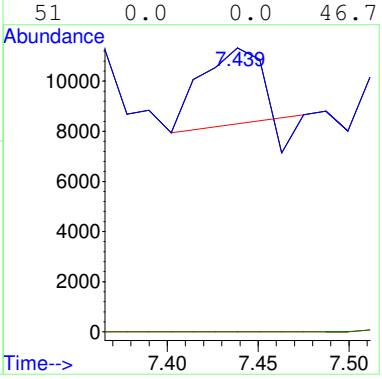


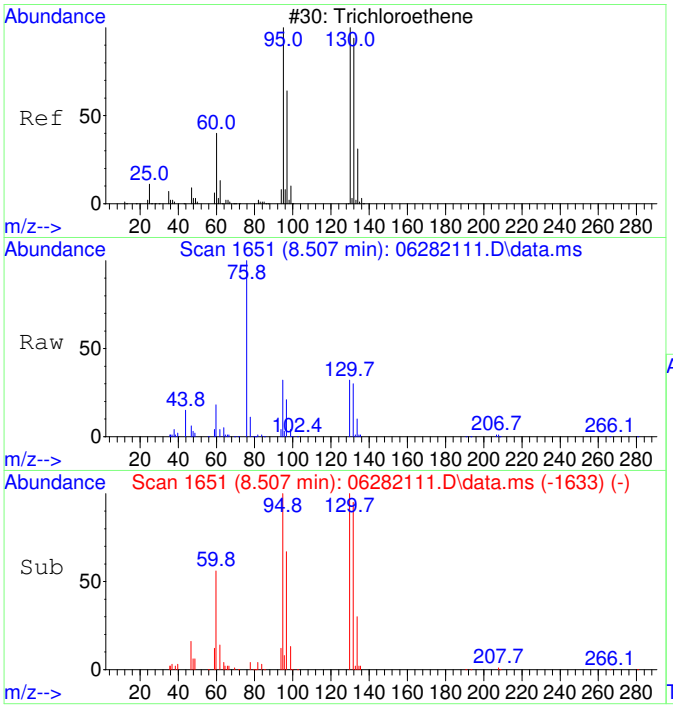


#33
Benzene SCAN
Concen: 418.68 ug/L
RT: 7.439 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 78 Resp: 6429

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

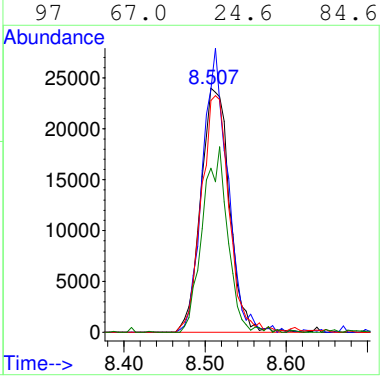


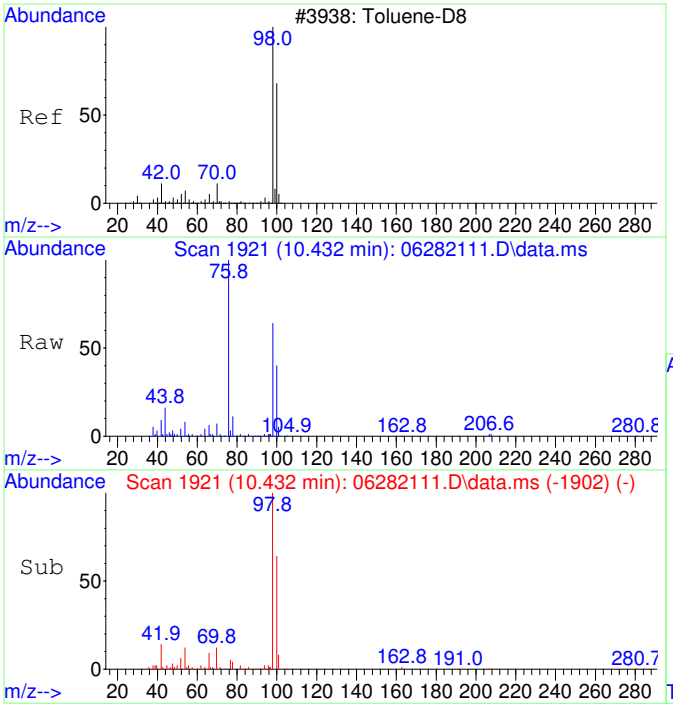


#35
Trichloroethene SCAN
Concen: 15068.17 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion:130 Resp: 58976

Ion	Ratio	Lower	Upper
130	100		
95	102.1	60.0	120.0
132	93.0	54.3	114.3
97	67.0	24.6	84.6

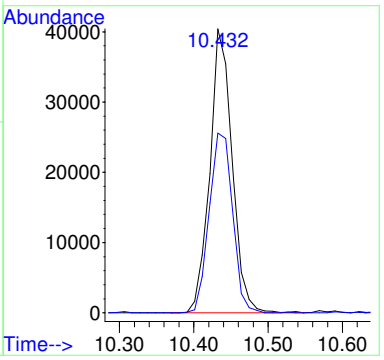


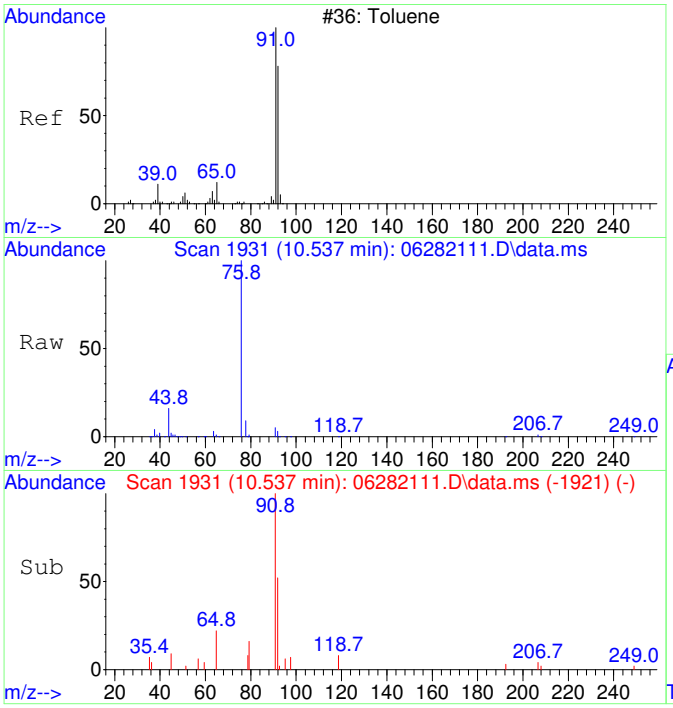


#36
Toluene-d8 SCAN
Concen: 4846.17 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 98 Resp: 84207

Ion	Ratio	Lower	Upper
98	100		
100	66.4	36.1	96.1

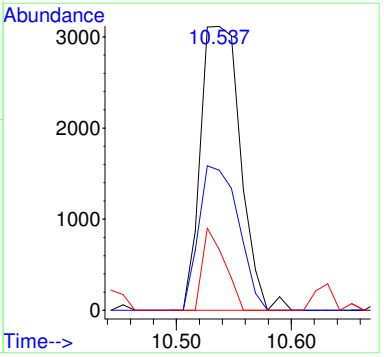


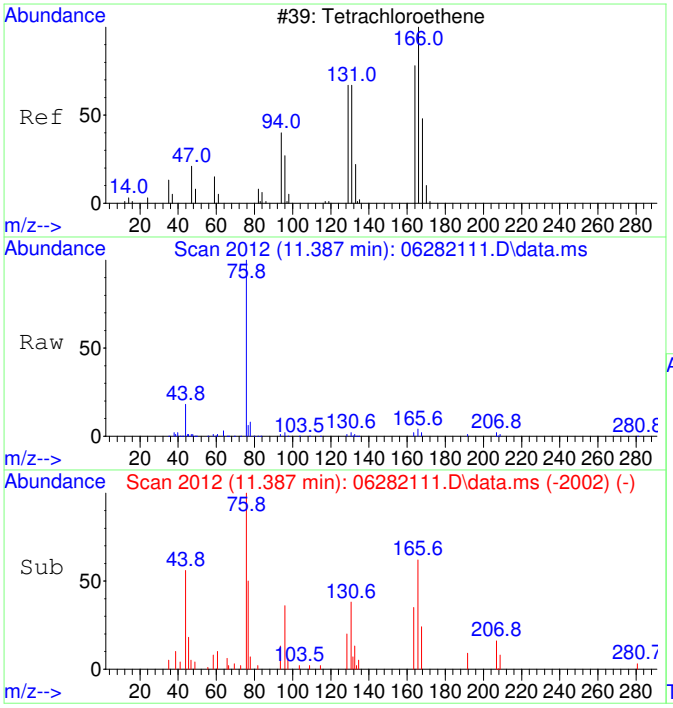


#37
Toluene SCAN
Concen: 336.48 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion: 91 Resp: 7567

Ion	Ratio	Lower	Upper
91	100		
92	50.4	26.5	86.5
65	16.0	0.0	40.6

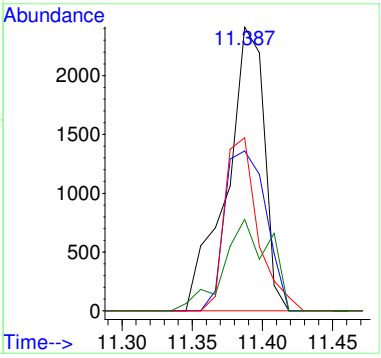




#39
Tetrachloroethene SCAN
Concen: 831.12 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06282111.D
Acq: 28 Jun 2021 13:21

Tgt Ion:166 Resp: 4501

Ion	Ratio	Lower	Upper
166	100		
164	62.5	53.9	113.9
131	54.4	45.6	105.6
129	39.4	51.3	111.3#



2106037-04

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282112.D
Acq On : 28 Jun 2021 13:47
InstName : AG5975C
Operator : TD
Sample : 2106037-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 28 14:08:44 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

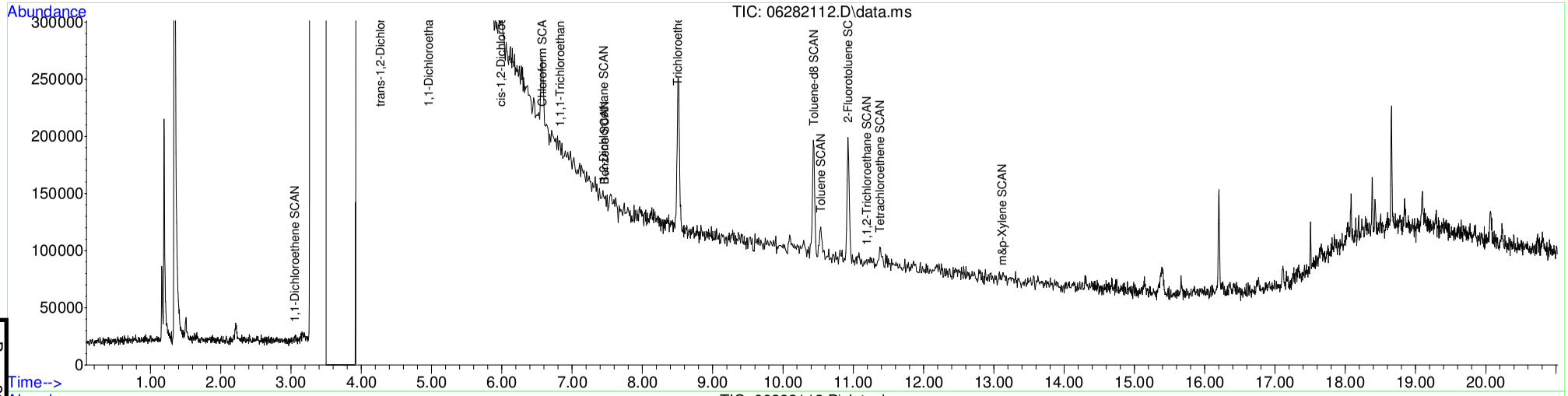
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	161232	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	139362	5046.12 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.92%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	2553	363.54 ug/L #	97
3] trans-1,2-Dichloroethene	4.220	61	1420	234.96 ug/L #	96
4] 1,1-Dichloroethane	4.964	63	2383	287.49 ug/L #	89
5] cis-1,2-Dichloroethene	5.992	61	28705	3614.17 ug/L #	100
6] Chloroform	6.564	83	102916	11010.16 ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	1445	166.14 ug/L #	100
8] Carbon tetrachloride	7.099	117	333	43.95 ug/L #	92
11] Trichloroethene	8.514	130	95525	13660.27 ug/L	98
13] Toluene	10.528	91	37308	1037.81 ug/L	99
15] Tetrachloroethene	11.388	166	7685	835.68 ug/L #	99
19] m&p-Xylene	13.121	91	2249	61.84 ug/L #	92
23] 1,2,4-Trimethylbenzene	15.838	105	2197	45.66 ug/L #	30
25) 2-Fluorotoluene SCAN	10.925	109	87750	4421.73 ug/L	98
26) 1,1-Dichloroethene SCAN	3.059	61	1914	456.63 ug/L	89
27) trans-1,2-Dichloroethe...	4.272	61	222	48.96 ug/L	79
28) 1,1-Dichloroethane SCAN	4.956	63	979	161.10 ug/L	74
29) cis-1,2-Dichloroethene...	5.991	61	18642	3040.59 ug/L #	86
30) Chloroform SCAN	6.575	83	65163	10049.83 ug/L	83
31) 1,1,1-Trichloroethane ...	6.830	97	924	152.52 ug/L #	48
33) Benzene SCAN	7.463	78	4056	266.65 ug/L	94
34) 1,2-Dichloroethane SCAN	7.450	62	357	74.45 ug/L #	1
35) Trichloroethene SCAN	8.501	130	54441	14041.74 ug/L	85
36) Toluene-d8 SCAN	10.432	98	85701	4979.05 ug/L	97
37) Toluene SCAN	10.537	91	25091	1126.31 ug/L	91
38) 1,1,2-Trichloroethane ...	11.188	97	191	35.99 ug/L #	41
39) Tetrachloroethene SCAN	11.377	166	4887	910.97 ug/L #	58
43) m&p-Xylene SCAN	13.112	91	1676	37.83 ug/L #	47

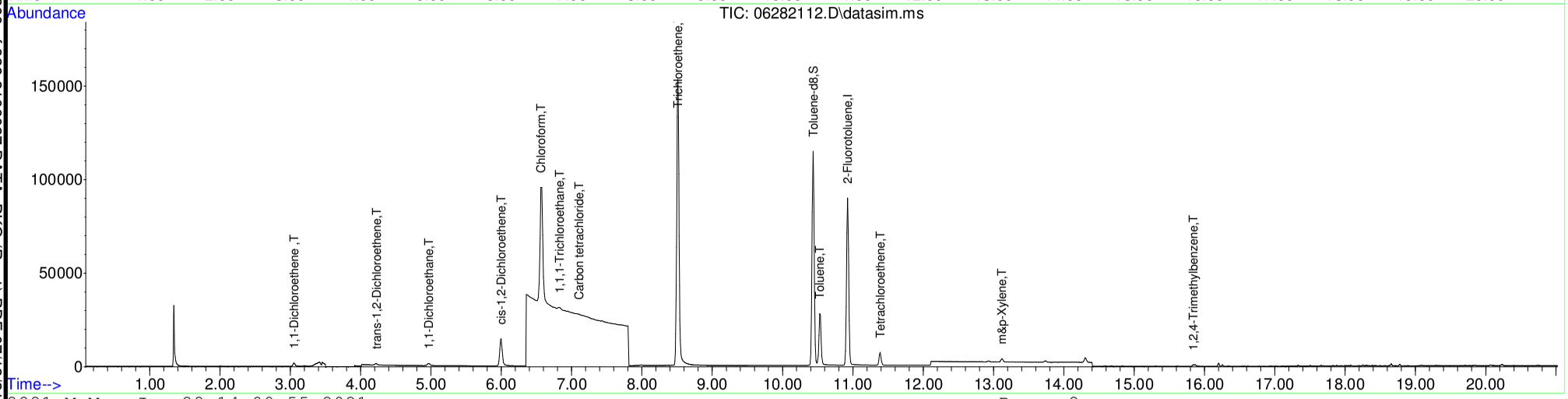
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282112.D
Acq On : 28 Jun 2021 13:47
InstName : AG5975C
Operator : TD
Sample : 2106037-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 28 14:08:44 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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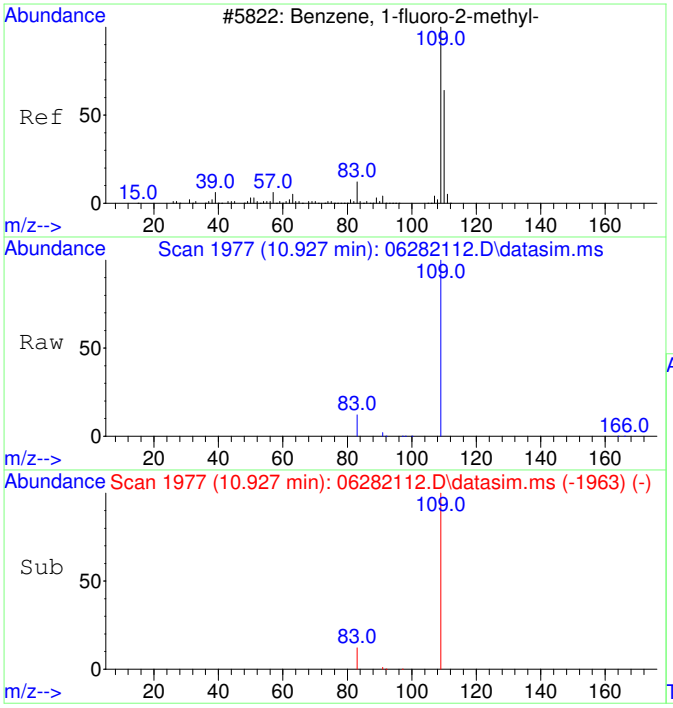
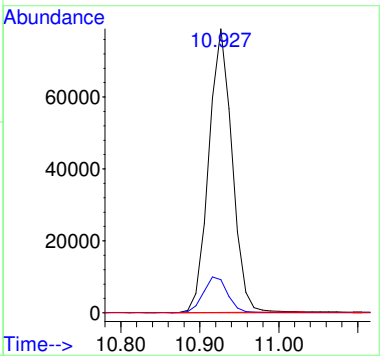
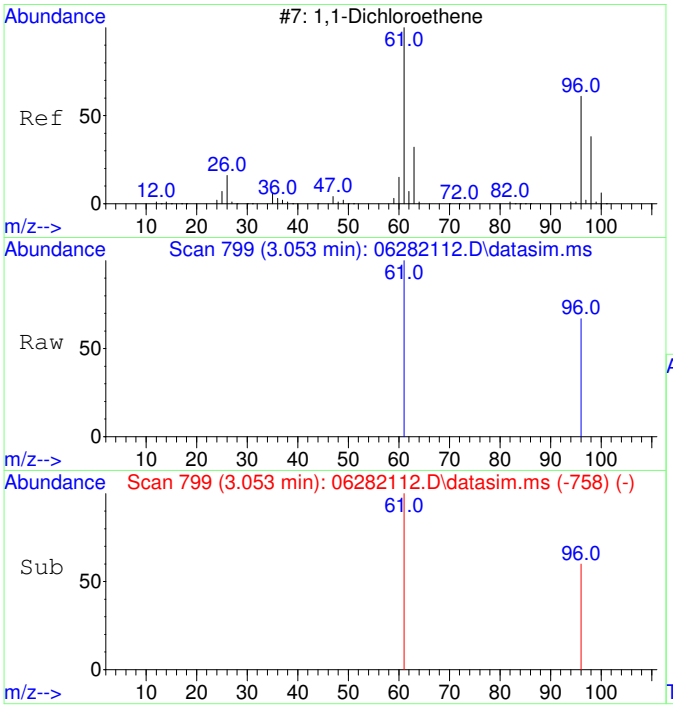


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion:109 Resp: 161232

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

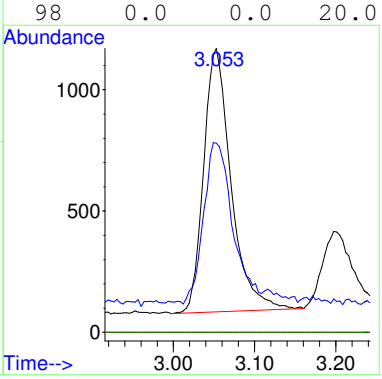


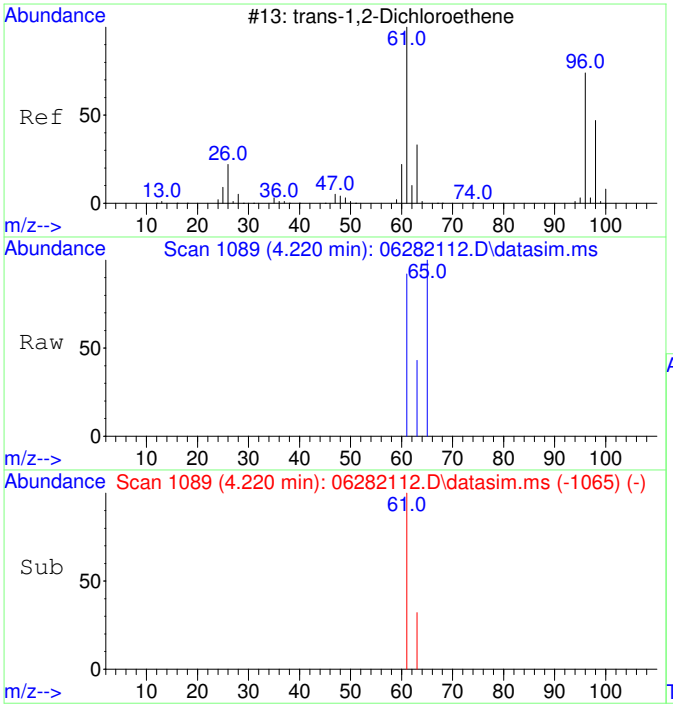


#2
1,1-Dichloroethene
Concen: 363.54 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 61 Resp: 2553

Ion	Ratio	Lower	Upper
61	100		
96	67.6	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

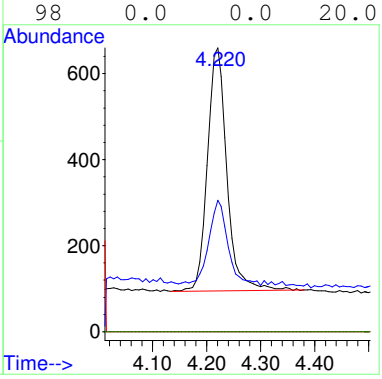


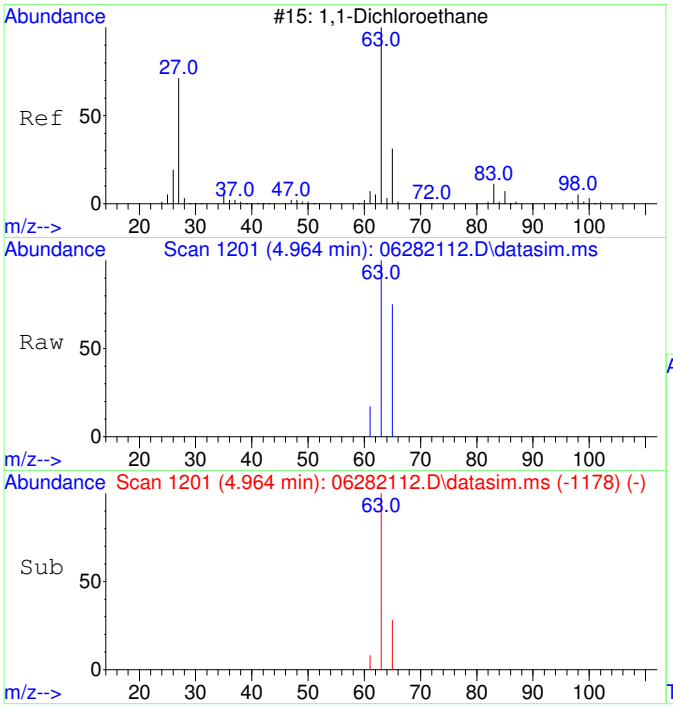


#3
trans-1,2-Dichloroethene
Concen: 234.96 ug/L
RT: 4.220 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 61 Resp: 1420

Ion	Ratio	Lower	Upper
61	100		
63	34.8	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

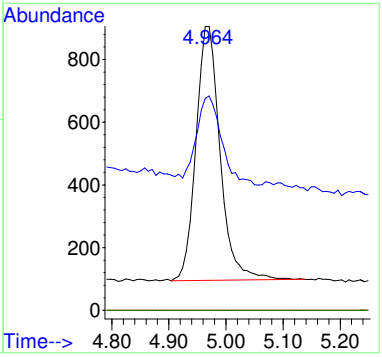


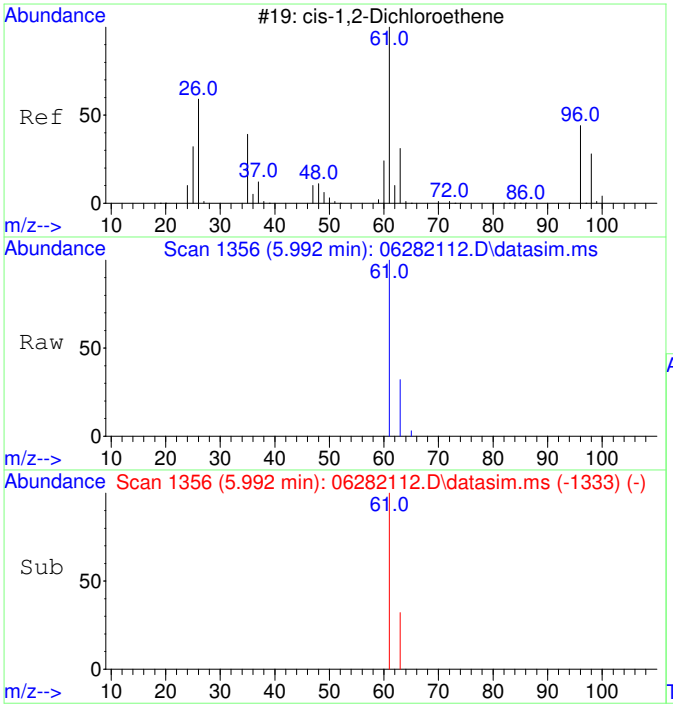


#4
1,1-Dichloroethane
Concen: 287.49 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 63 Resp: 2383

Ion	Ratio	Lower	Upper
63	100		
65	37.3	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

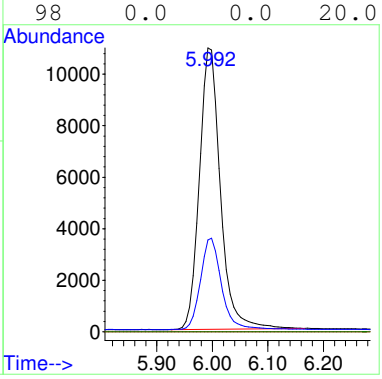


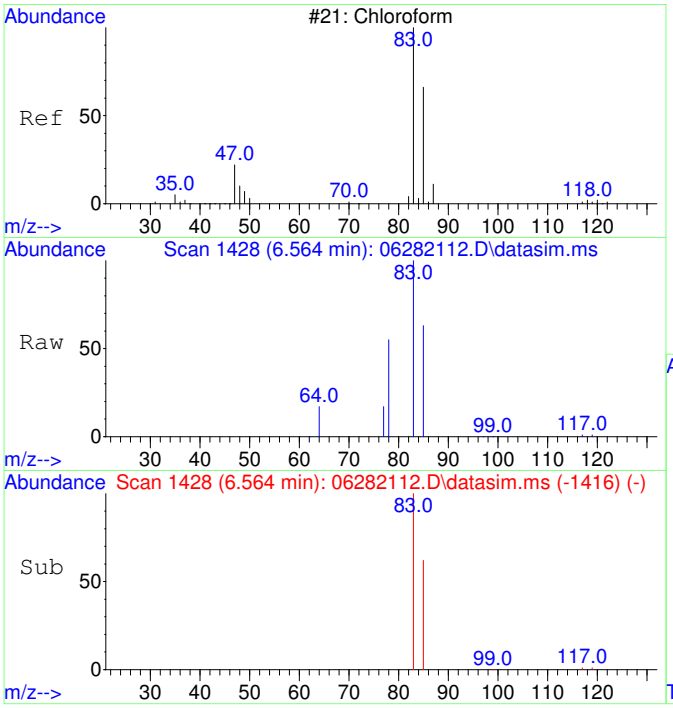


#5
cis-1,2-Dichloroethene
Concen: 3614.17 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 61 Resp: 28705

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

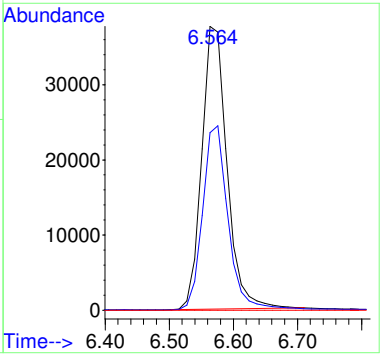


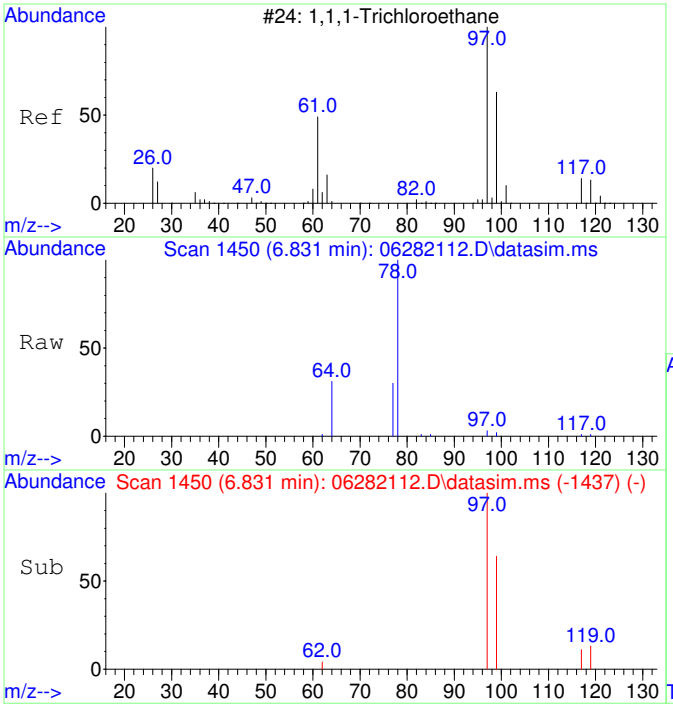


#6
Chloroform
Concen: 11010.16 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 83 Resp: 102916

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.5	94.5
87	0.0	0.0	20.0

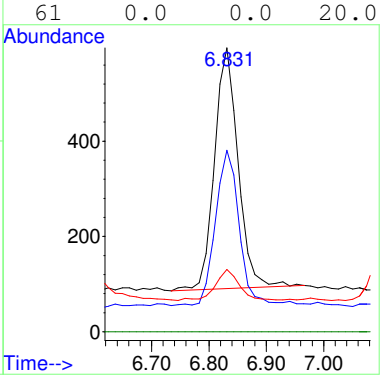


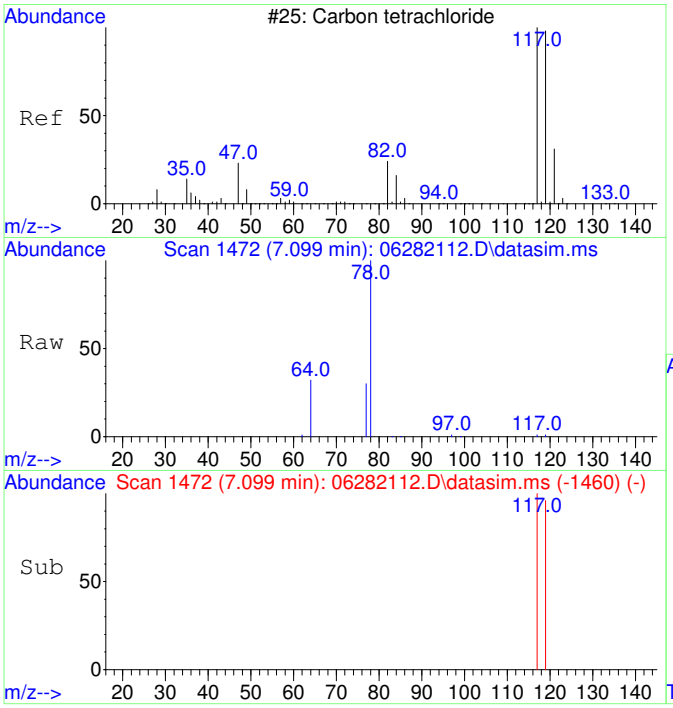


#7
1,1,1-Trichloroethane
Concen: 166.14 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 97 Resp: 1445

Ion	Ratio	Lower	Upper
97	100		
99	64.4	34.4	94.4
117	12.9	0.0	42.8
61	0.0	0.0	20.0

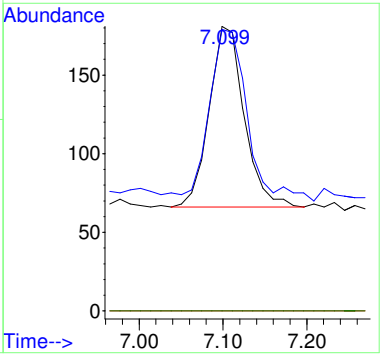


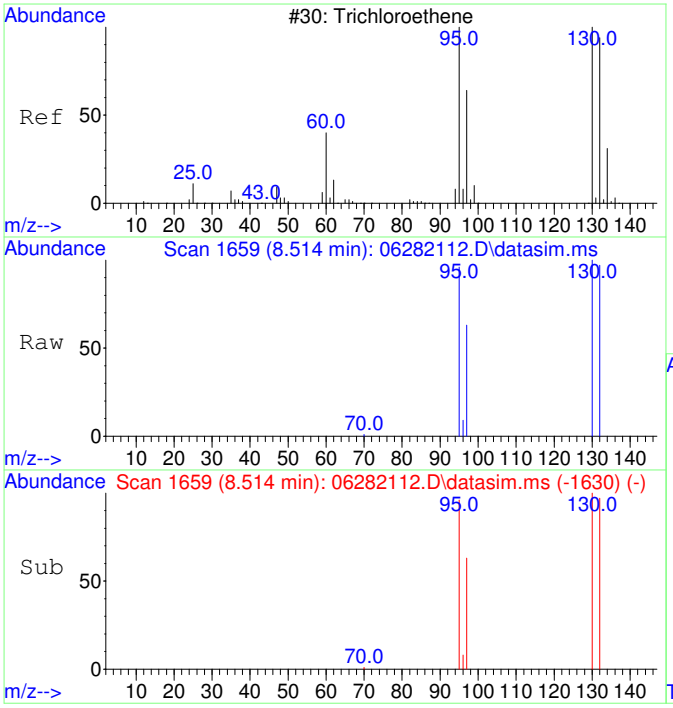


#8
Carbon tetrachloride
Concen: 43.95 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion:117 Resp: 333

Ion	Ratio	Lower	Upper
117	100		
119	103.9	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

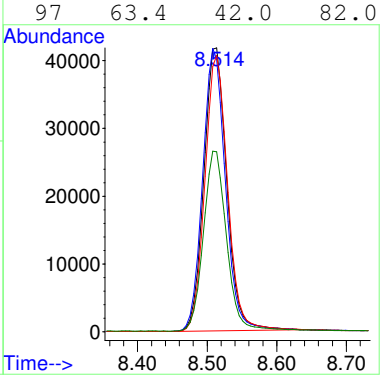


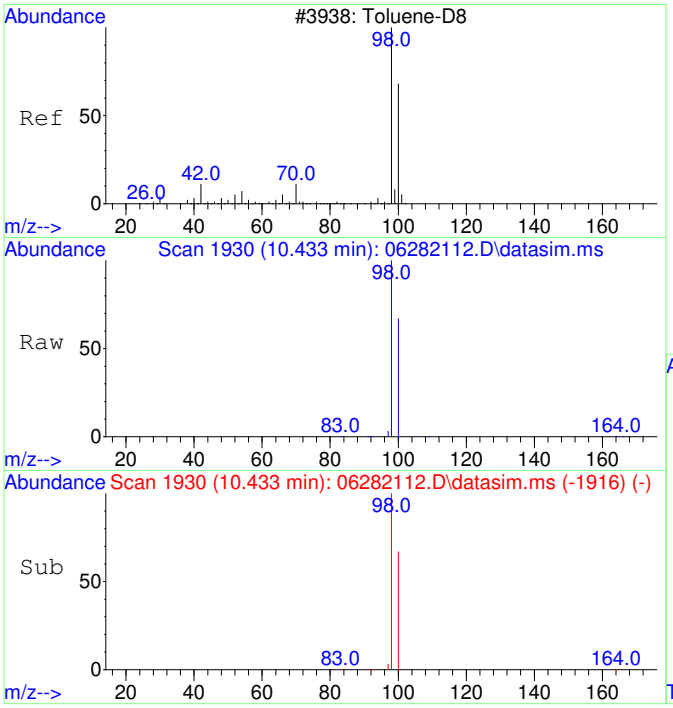


#11
Trichloroethene
Concen: 13660.27 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion:130 Resp: 95525

Ion	Ratio	Lower	Upper
130	100		
95	98.7	65.8	125.8
132	96.2	75.8	115.8
97	63.4	42.0	82.0

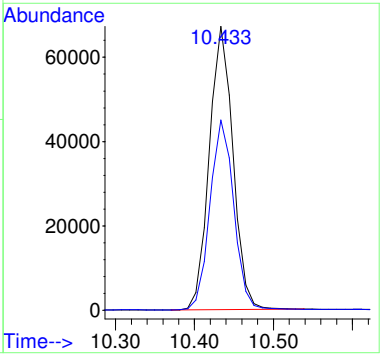


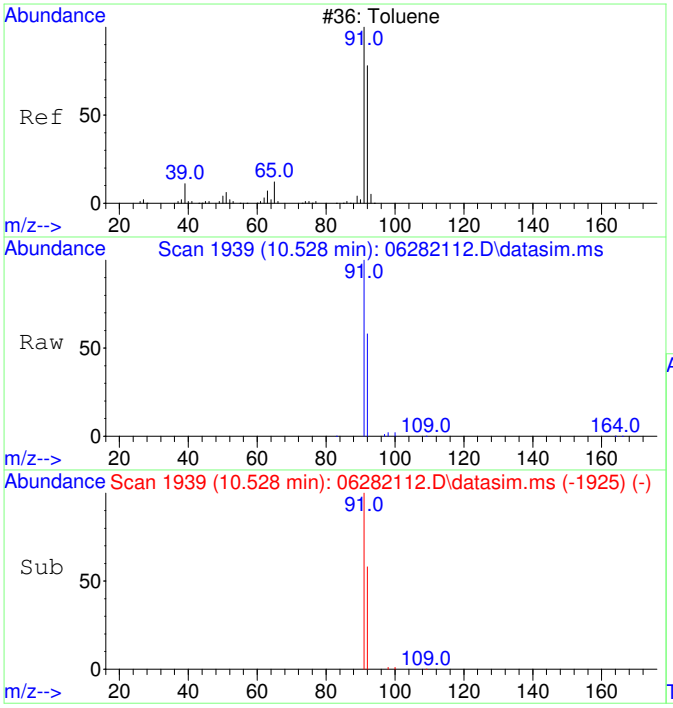


#12
Toluene-d8
Concen: 5046.12 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 98 Resp: 139362

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.3	97.3

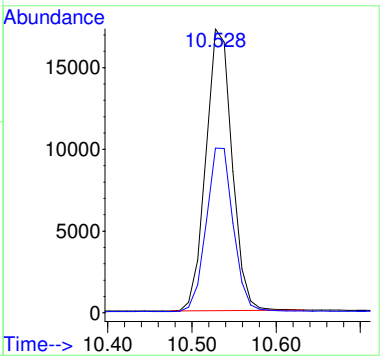


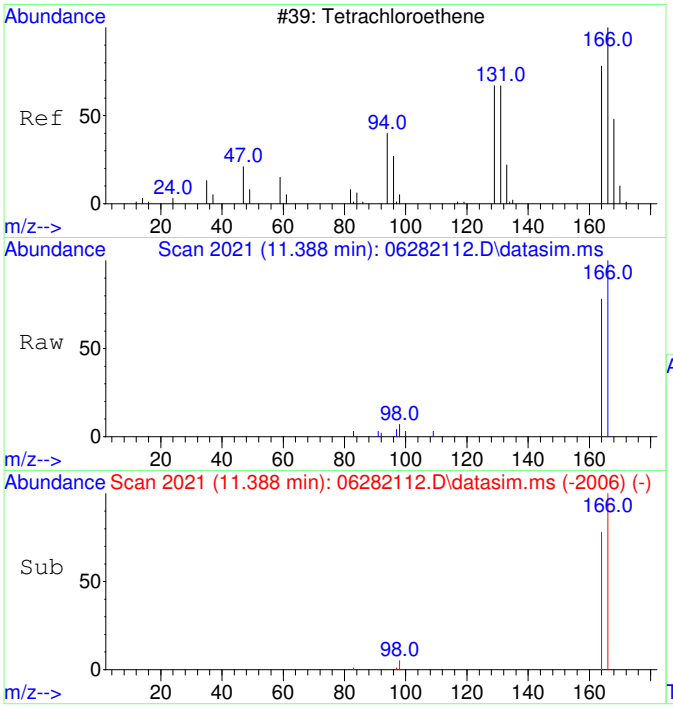


#13
Toluene
Concen: 1037.81 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 91 Resp: 37308

Ion	Ratio	Lower	Upper
91	100		
92	59.5	30.2	90.2

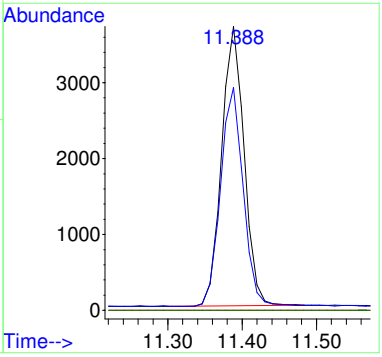


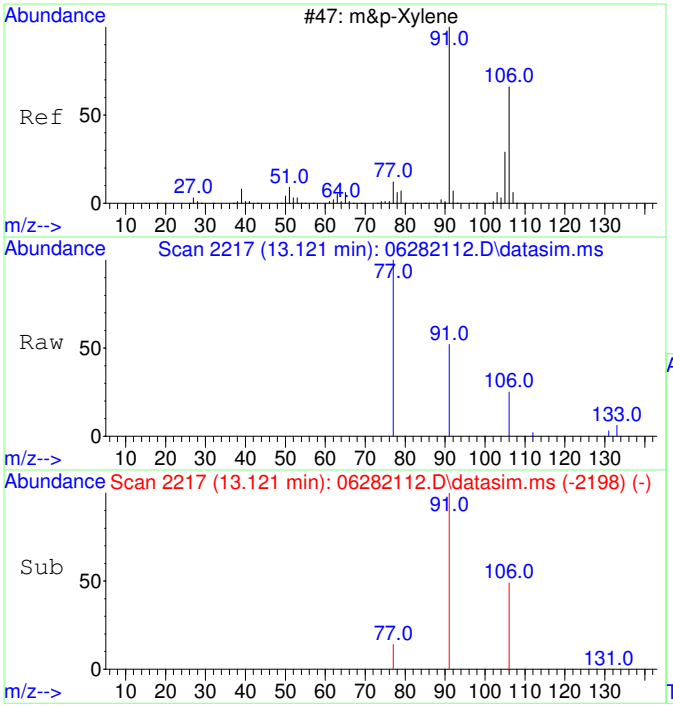


#15
Tetrachloroethene
Concen: 835.68 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.010 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion:166 Resp: 7685

Ion	Ratio	Lower	Upper
166	100		
164	78.6	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

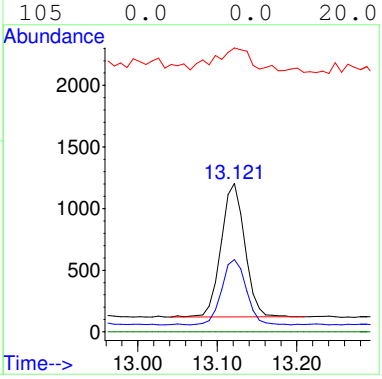


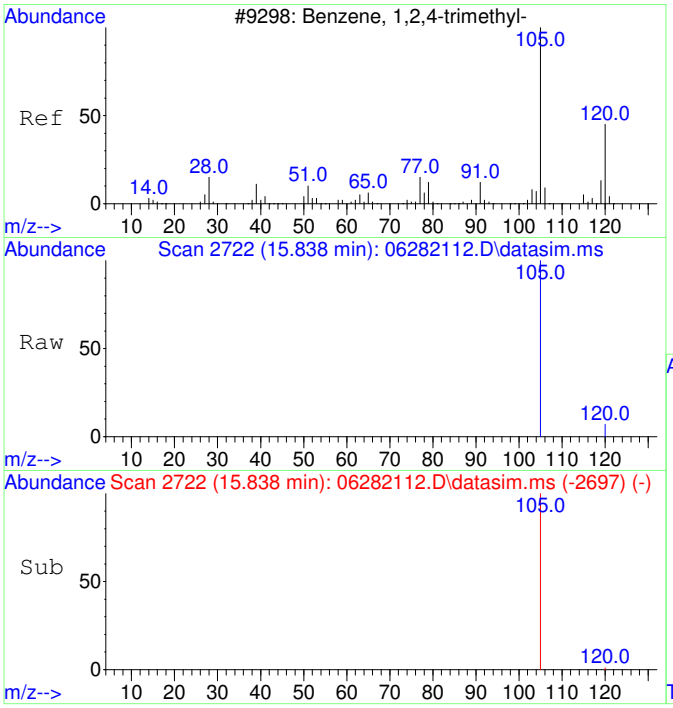


#19
m&p-Xylene
Concen: 61.84 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 91 Resp: 2249

Ion	Ratio	Lower	Upper
91	100		
106	50.4	21.4	81.4
77	26.6	0.0	42.7
105	0.0	0.0	20.0

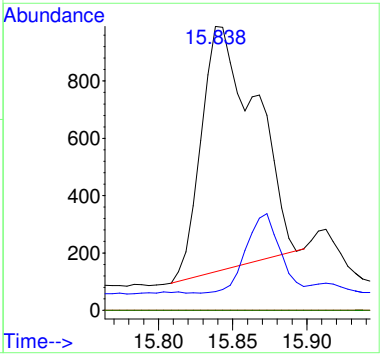


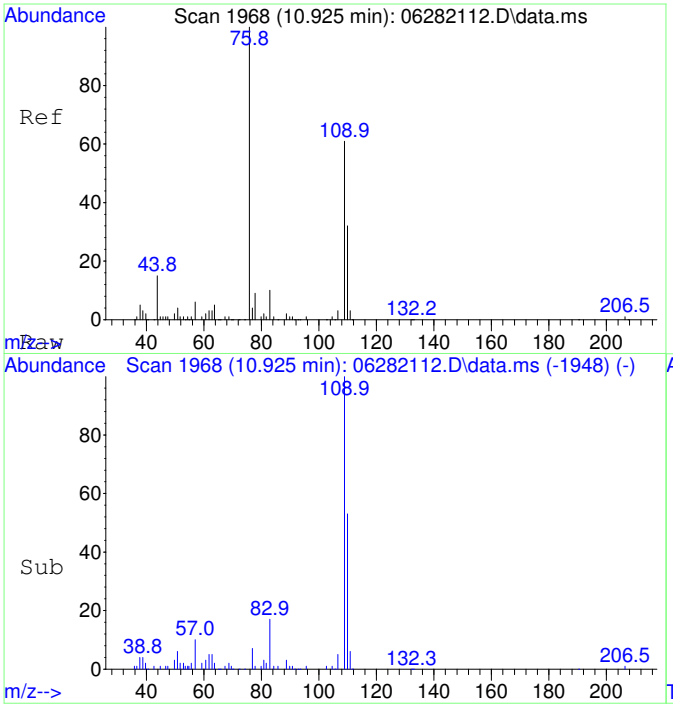


#23
1,2,4-Trimethylbenzene
Concen: 45.66 ug/L
RT: 15.838 min Scan# 2722
Delta R.T. -0.025 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion:105 Resp: 2197

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

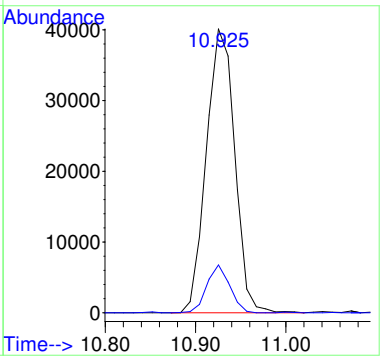


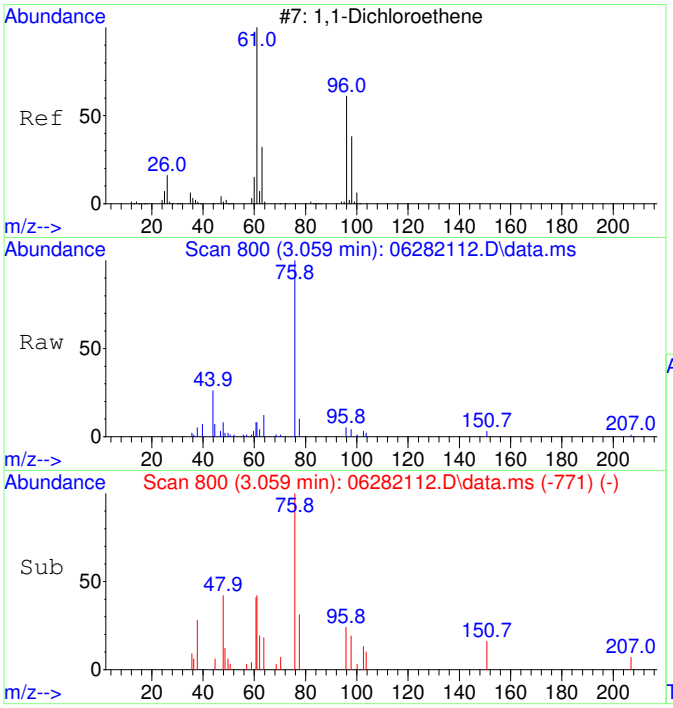


#25
2-Fluorotoluene SCAN
Concen: 4421.73 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion:109 Resp: 87750

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.5

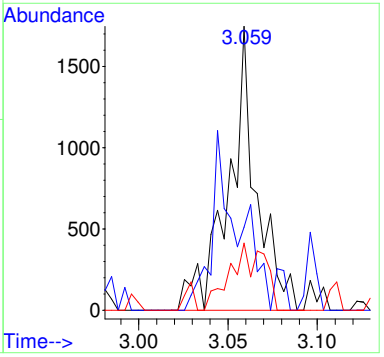


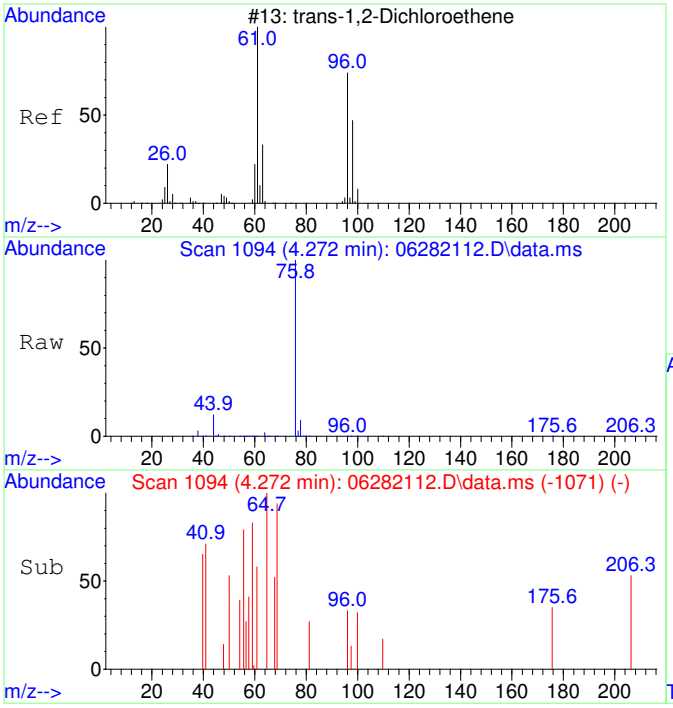


#26
1,1-Dichloroethene SCAN
Concen: 456.63 ug/L
RT: 3.059 min Scan# 800
Delta R.T. 0.007 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 61 Resp: 1914

Ion	Ratio	Lower	Upper
61	100		
96	59.8	33.0	93.0
98	28.7	12.5	72.5

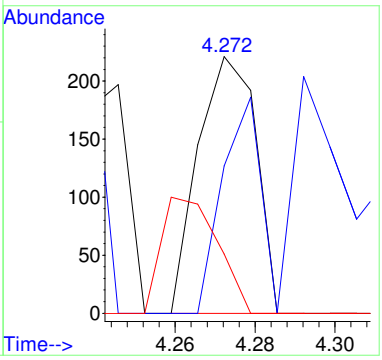


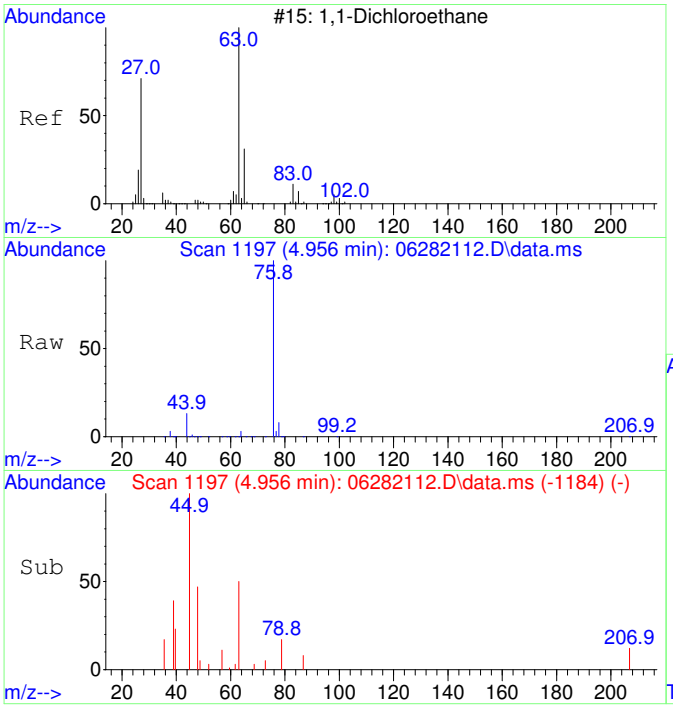


#27
trans-1,2-Dichloroethene SCAN
Concen: 48.96 ug/L
RT: 4.272 min Scan# 1094
Delta R.T. 0.053 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 61 Resp: 222

Ion	Ratio	Lower	Upper
61	100		
96	56.3	49.3	109.3
98	44.1	24.0	84.0

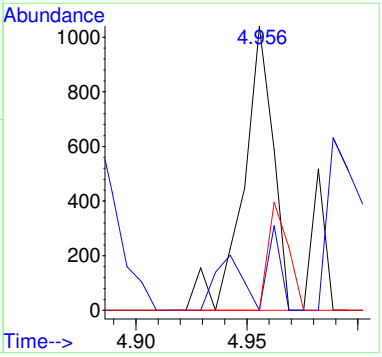


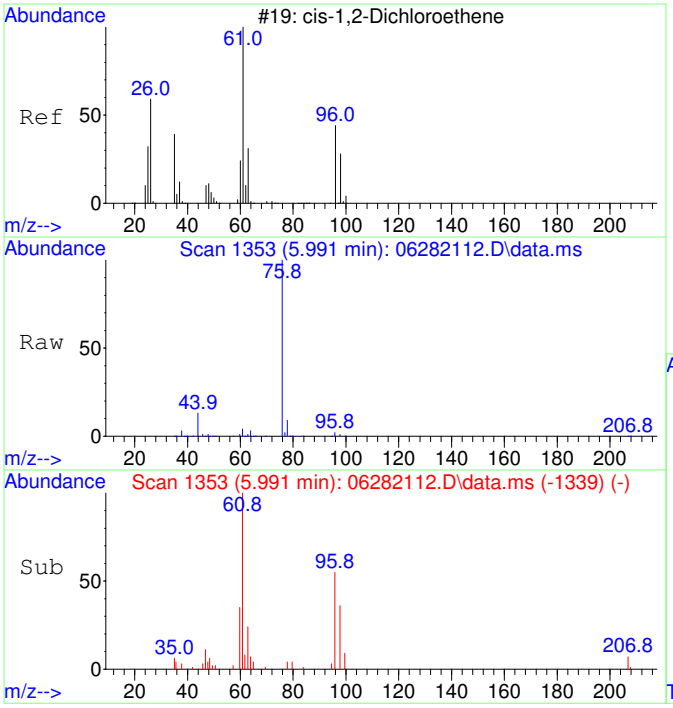


#28
1,1-Dichloroethane SCAN
Concen: 161.10 ug/L
RT: 4.956 min Scan# 1197
Delta R.T. -0.013 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 63 Resp: 979

Ion	Ratio	Lower	Upper
63	100		
65	12.6	0.0	57.3
83	25.5	0.0	46.2

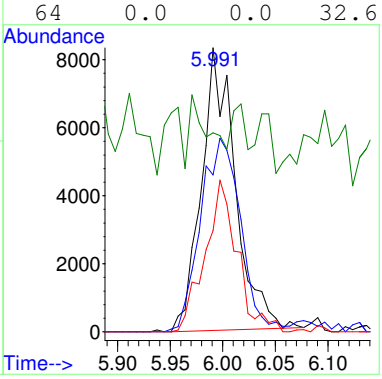


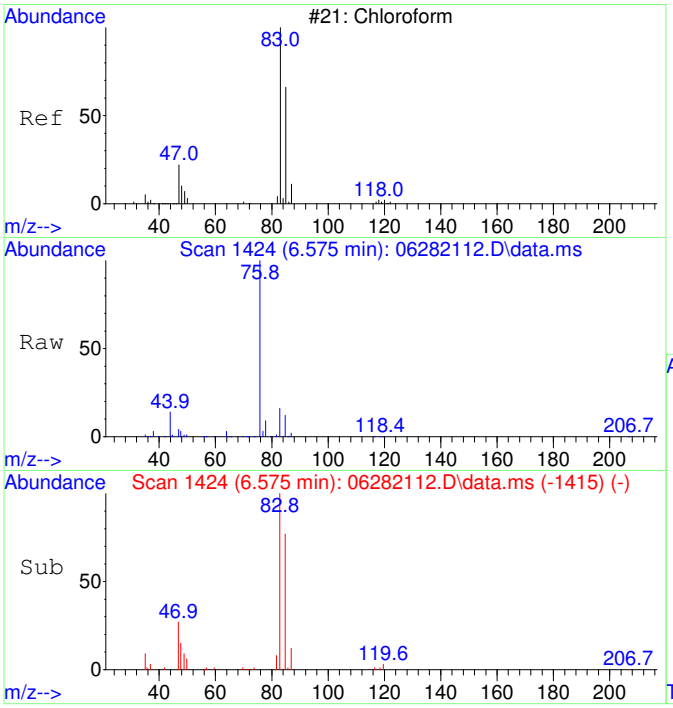


#29
cis-1,2-Dichloroethene SCAN
Concen: 3040.59 ug/L
RT: 5.991 min Scan# 1353
Delta R.T. -0.007 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 61 Resp: 18642

Ion	Ratio	Lower	Upper
61	100		
96	77.9	36.9	96.9
98	50.8	12.1	72.1
64	0.0	0.0	32.6

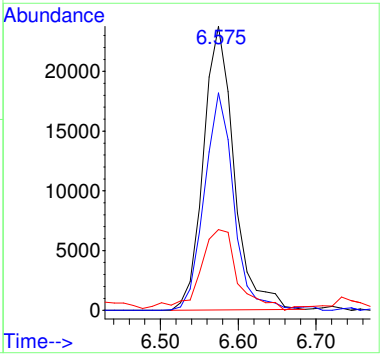


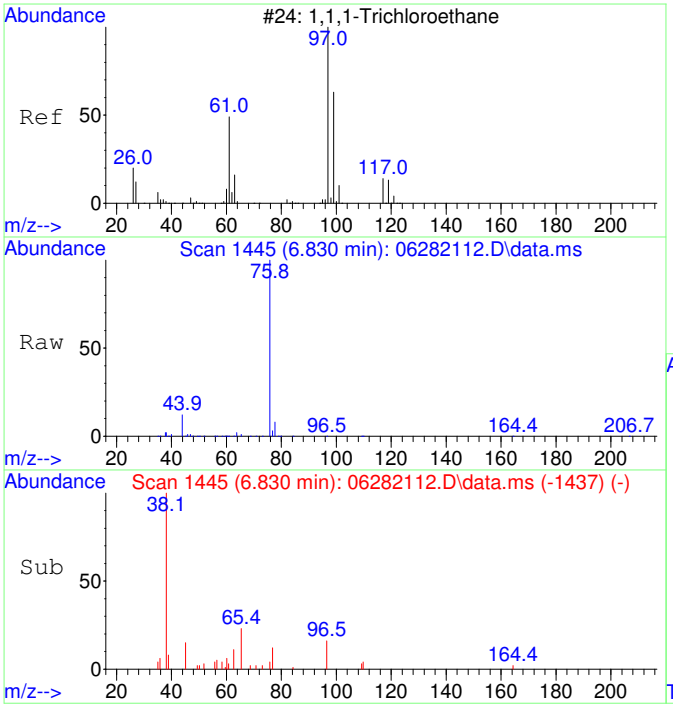


#30
Chloroform SCAN
Concen: 10049.83 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 83 Resp: 65163

Ion	Ratio	Lower	Upper
83	100		
85	73.8	27.1	87.1
47	32.2	7.5	67.5

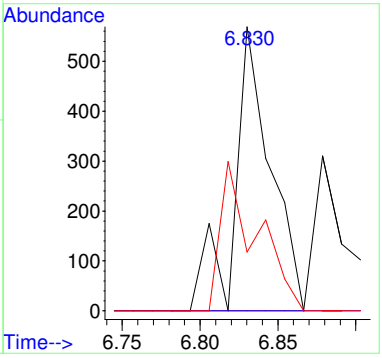


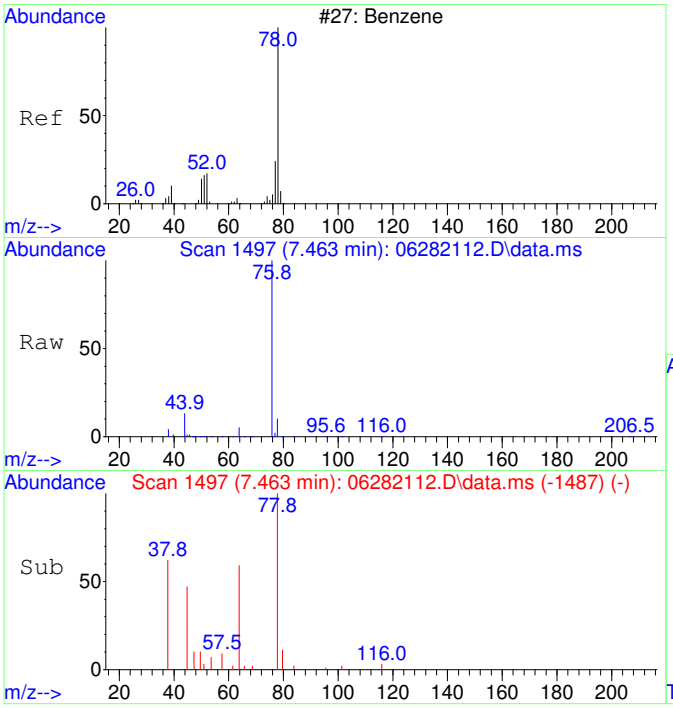


#31
1,1,1-Trichloroethane SCAN
Concen: 152.52 ug/L
RT: 6.830 min Scan# 1445
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 97 Resp: 924

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	52.4	11.4	71.4

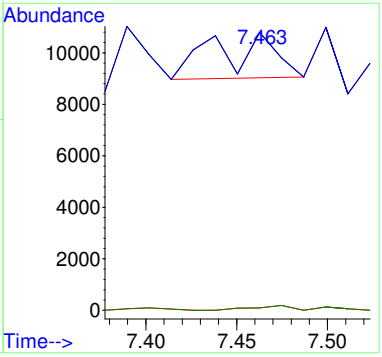


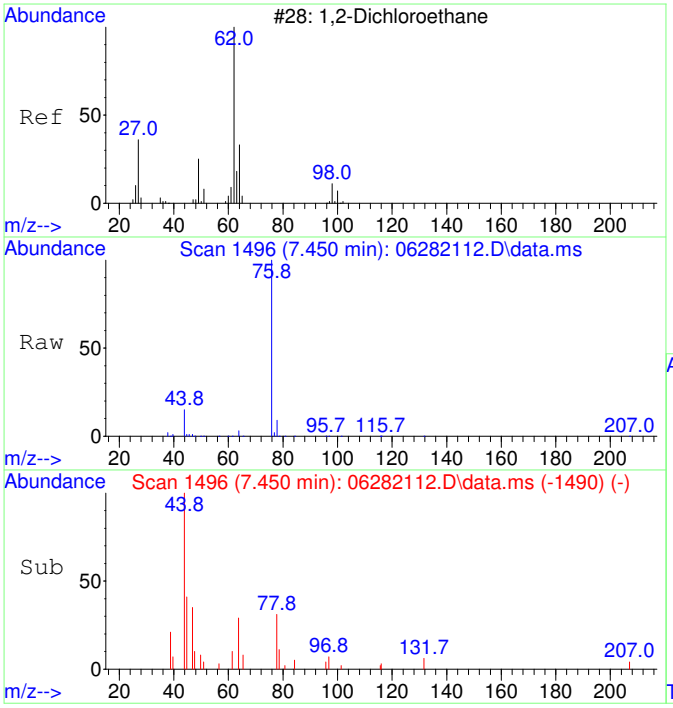


#33
Benzene SCAN
Concen: 266.65 ug/L
RT: 7.463 min Scan# 1497
Delta R.T. 0.024 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 78 Resp: 4056

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	6.7	0.0	46.7
51	6.7	0.0	46.7

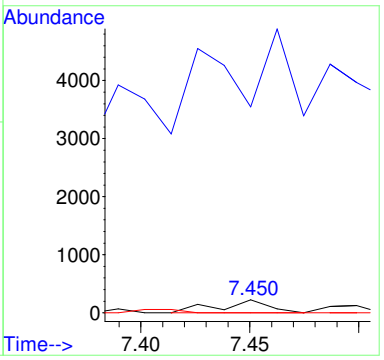


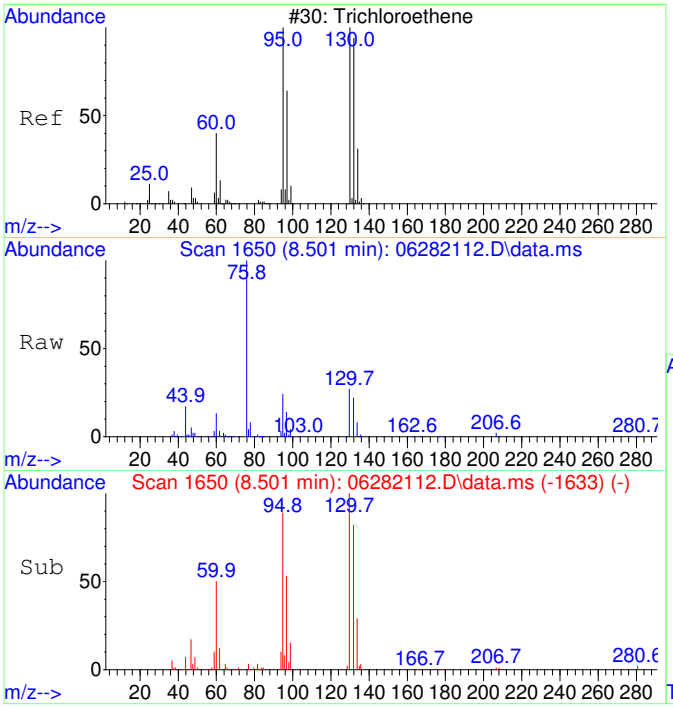


#34
1,2-Dichloroethane SCAN
Concen: 74.45 ug/L
RT: 7.450 min Scan# 1496
Delta R.T. -0.024 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 62 Resp: 357

Ion	Ratio	Lower	Upper
62	100		
64	2228.0	13.3	73.3#
49	0.0	4.1	64.1#

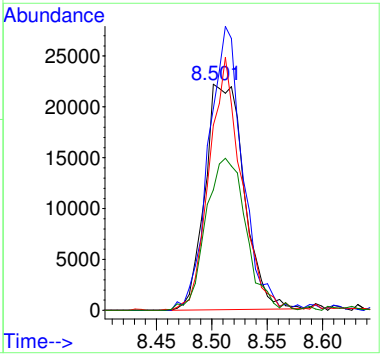


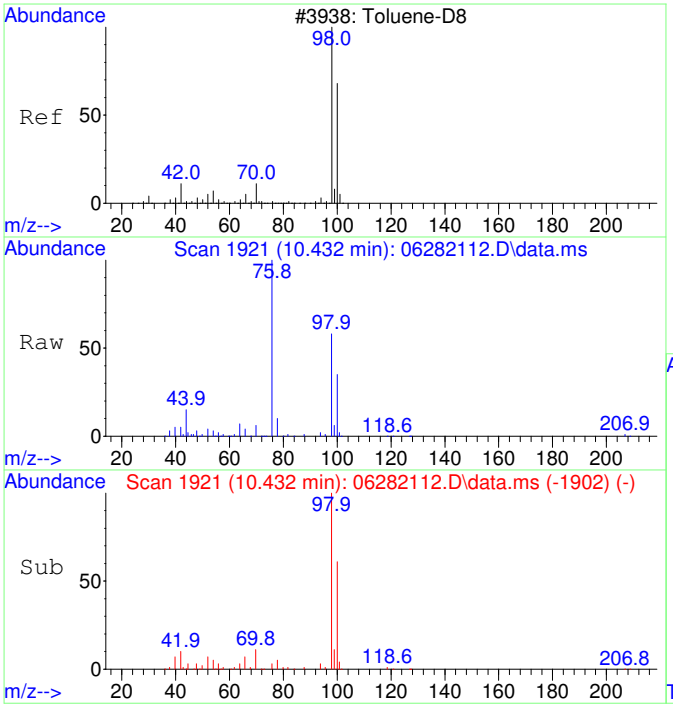


#35
Trichloroethene SCAN
Concen: 14041.74 ug/L
RT: 8.501 min Scan# 1650
Delta R.T. -0.006 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion:130 Resp: 54441

Ion	Ratio	Lower	Upper
130	100		
95	108.3	60.0	120.0
132	91.8	54.3	114.3
97	68.9	24.6	84.6

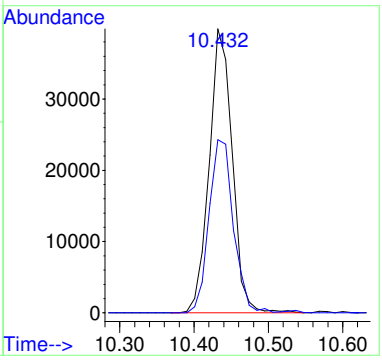


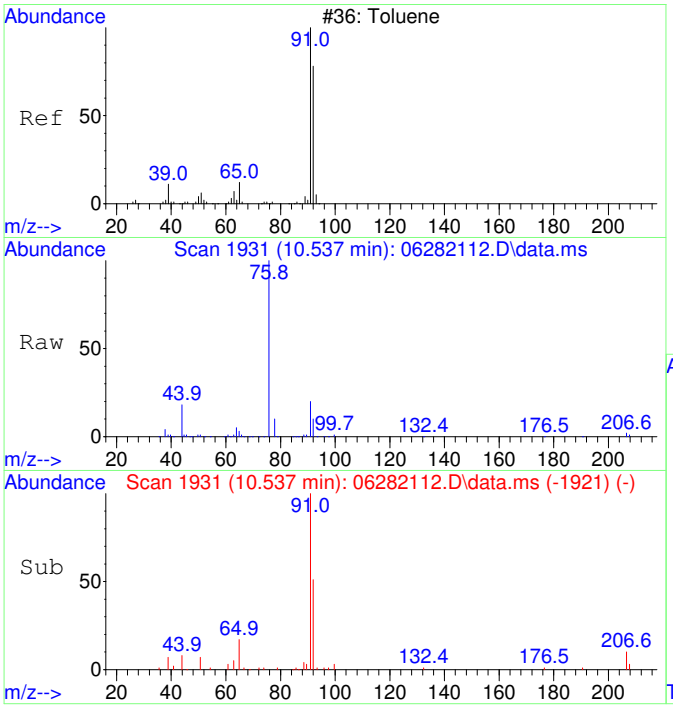


#36
Toluene-d8 SCAN
Concen: 4979.05 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 98 Resp: 85701

Ion	Ratio	Lower	Upper
98	100		
100	63.9	36.1	96.1

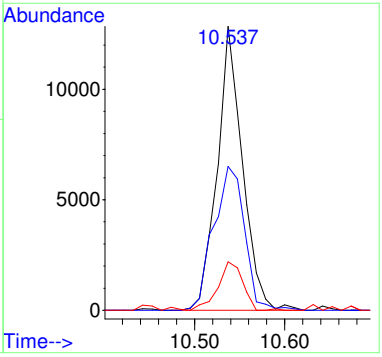


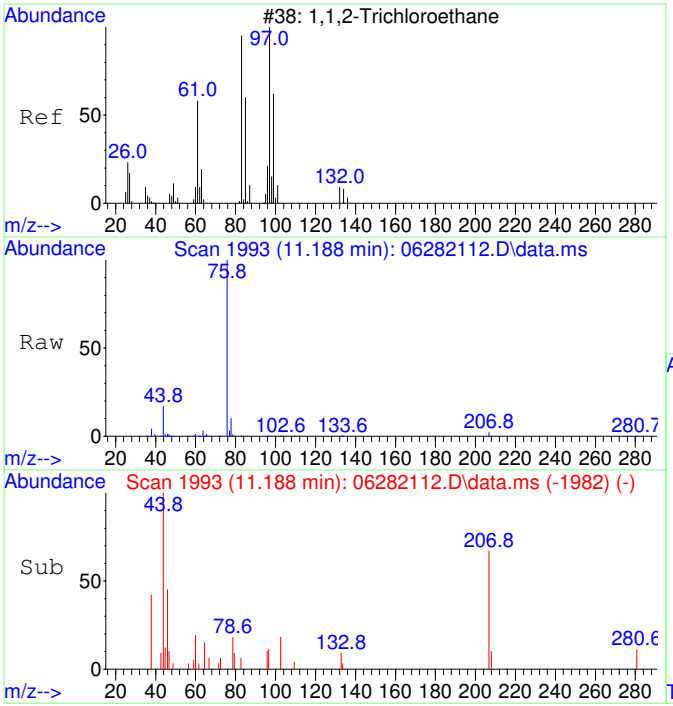


#37
Toluene SCAN
Concen: 1126.31 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. -0.000 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 91 Resp: 25091

Ion	Ratio	Lower	Upper
91	100		
92	62.1	26.5	86.5
65	16.6	0.0	40.6

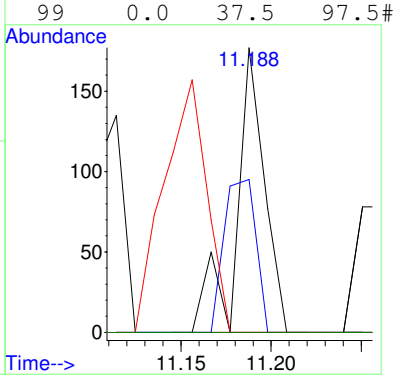


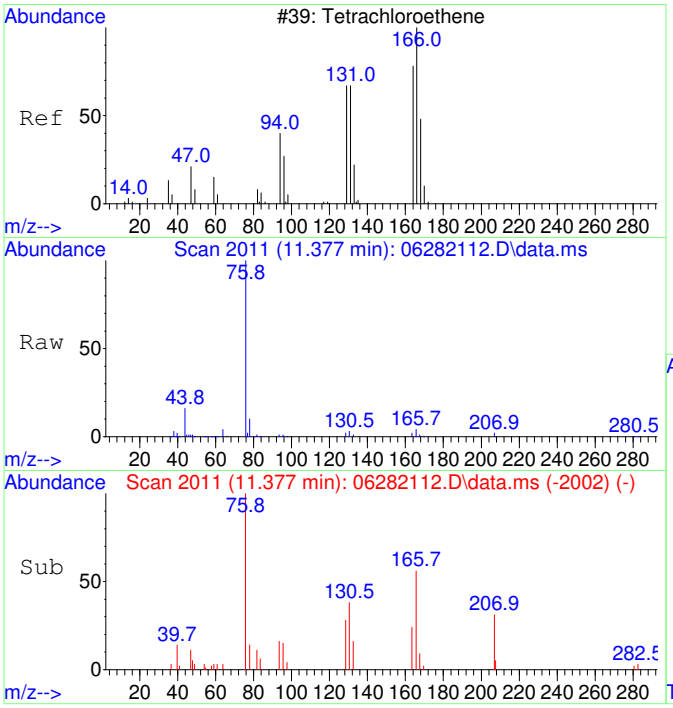


#38
1,1,2-Trichloroethane SCAN
Concen: 35.99 ug/L
RT: 11.188 min Scan# 1993
Delta R.T. 0.010 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 97 Resp: 191

Ion	Ratio	Lower	Upper
97	100		
83	61.3	52.0	112.0
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

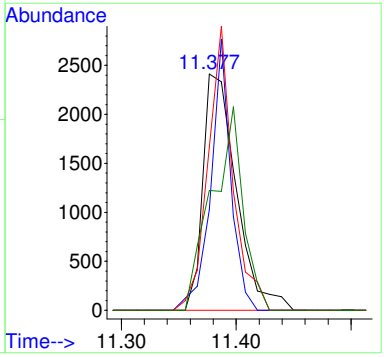


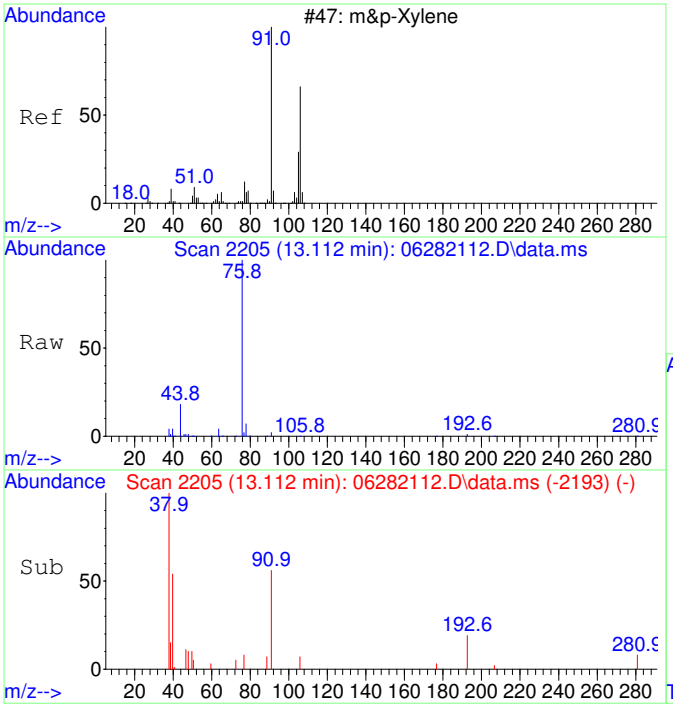


#39
Tetrachloroethene SCAN
Concen: 910.97 ug/L
RT: 11.377 min Scan# 2011
Delta R.T. -0.011 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion:166 Resp: 4887

Ion	Ratio	Lower	Upper
166	100		
164	68.4	53.9	113.9
131	89.7	45.6	105.6
129	0.0	51.3	111.3#

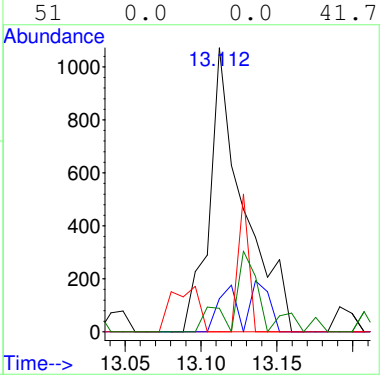




#43
m&p-Xylene SCAN
Concen: 37.83 ug/L
RT: 13.112 min Scan# 2205
Delta R.T. -0.008 min
Lab File: 06282112.D
Acq: 28 Jun 2021 13:47

Tgt Ion: 91 Resp: 1676

Ion	Ratio	Lower	Upper
91	100		
106	8.6	21.2	81.2#
105	0.0	0.0	51.6
51	0.0	0.0	41.7



2106037-05

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282113.D
Acq On : 28 Jun 2021 14:13
InstName : AG5975C
Operator : TD
Sample : 2106037-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 29 06:06:26 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

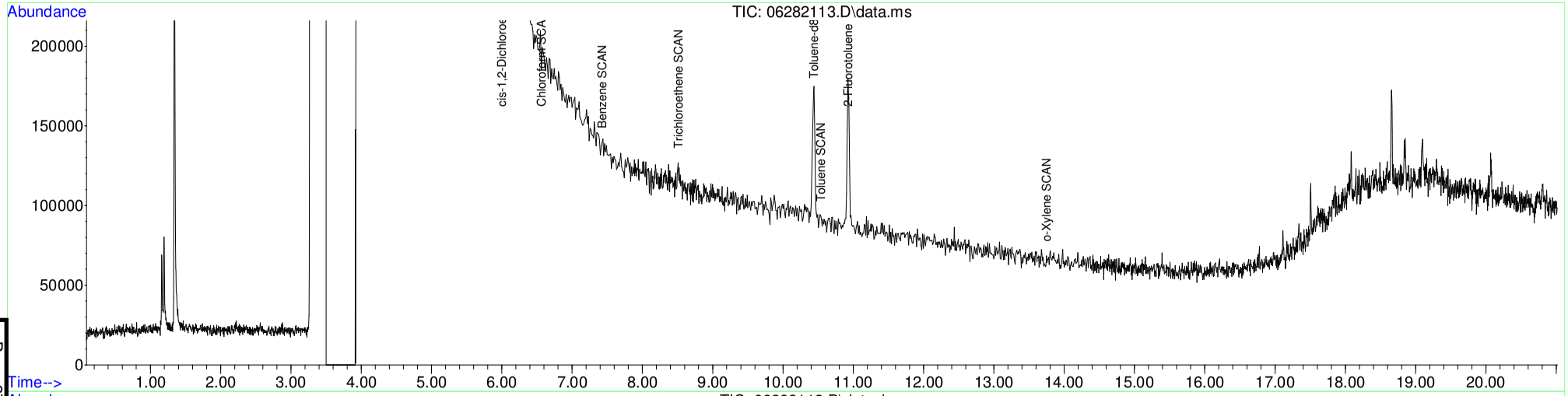
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	146514	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	126159	5026.94 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.54%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	176	27.58 ug/L #	92
5] cis-1,2-Dichloroethene	5.992	61	1881	260.62 ug/L #	100
6] Chloroform	6.564	83	6934	816.33 ug/L #	98
11] Trichloroethene	8.514	130	5911	930.20 ug/L	99
13] Toluene	10.528	91	2242	68.63 ug/L	99
15] Tetrachloroethene	11.389	166	407	48.70 ug/L #	94
19] m&p-Xylene	13.122	91	1433	43.36 ug/L #	89
23] 1,2,4-Trimethylbenzene	15.840	105	2037	46.58 ug/L #	30
25) 2-Fluorotoluene SCAN	10.926	109	80186	4446.47 ug/L	97
29) cis-1,2-Dichloroethene...	5.998	61	1681	301.72 ug/L #	48
30) Chloroform SCAN	6.563	83	4760	807.86 ug/L #	74
33) Benzene SCAN	7.426	78	2906	210.24 ug/L #	90
35) Trichloroethene SCAN	8.507	130	3500	993.42 ug/L	81
36) Toluene-d8 SCAN	10.432	98	75117	4802.54 ug/L	100
37) Toluene SCAN	10.537	91	2077	102.60 ug/L	68
44) o-Xylene SCAN	13.748	91	626	28.27 ug/L #	35

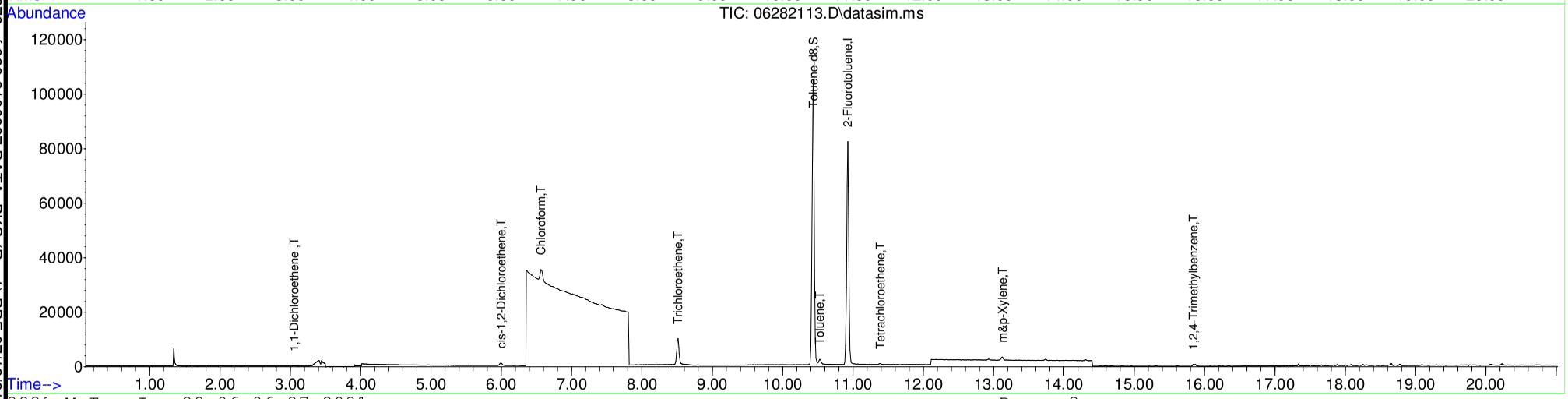
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282113.D
Acq On : 28 Jun 2021 14:13
InstName : AG5975C
Operator : TD
Sample : 2106037-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 29 06:06:26 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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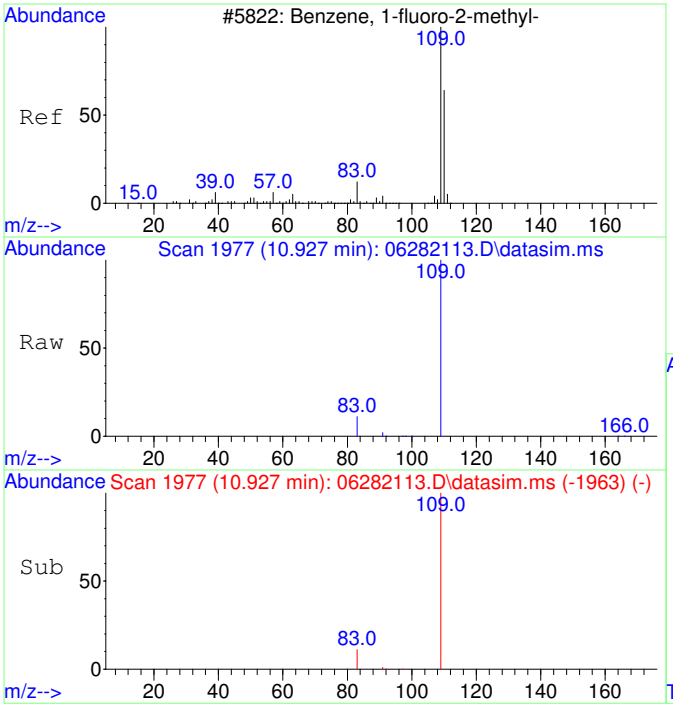
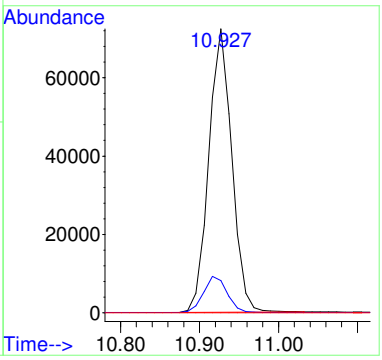
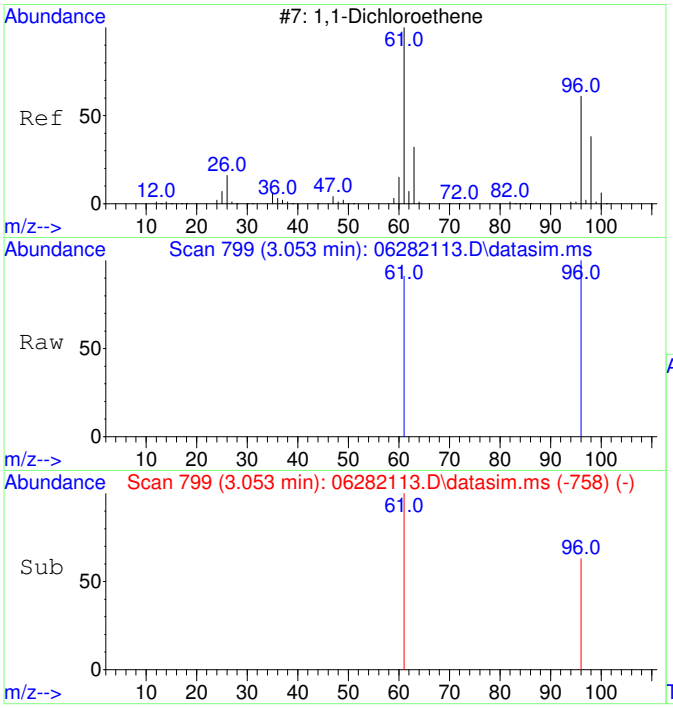


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion:109 Resp: 146514

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

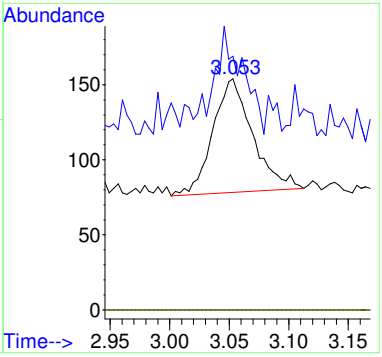


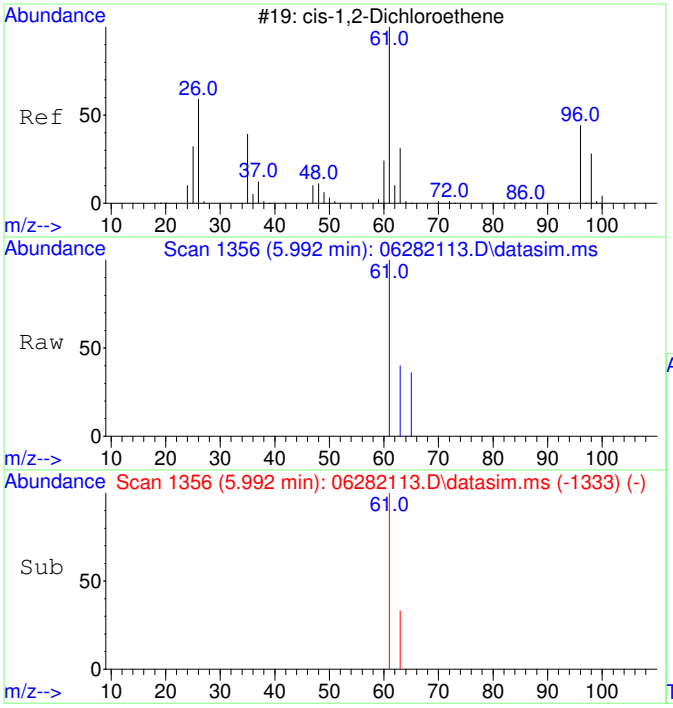


#2
1,1-Dichloroethene
Concen: 27.58 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 61 Resp: 176

Ion	Ratio	Lower	Upper
61	100		
96	58.5	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

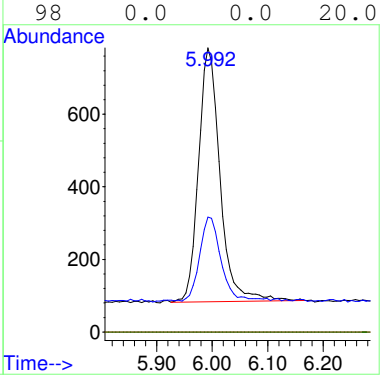


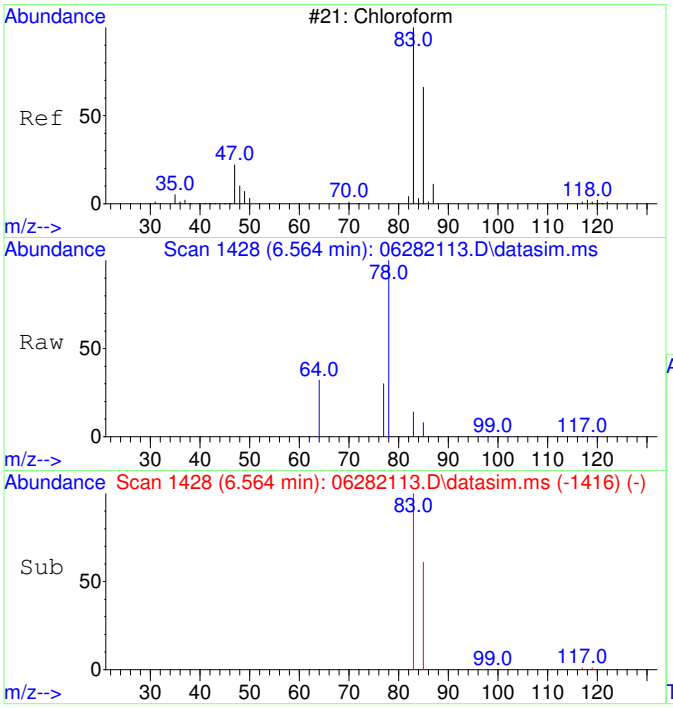


#5
cis-1,2-Dichloroethene
Concen: 260.62 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 61 Resp: 1881

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

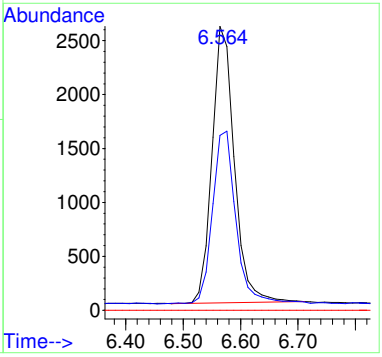


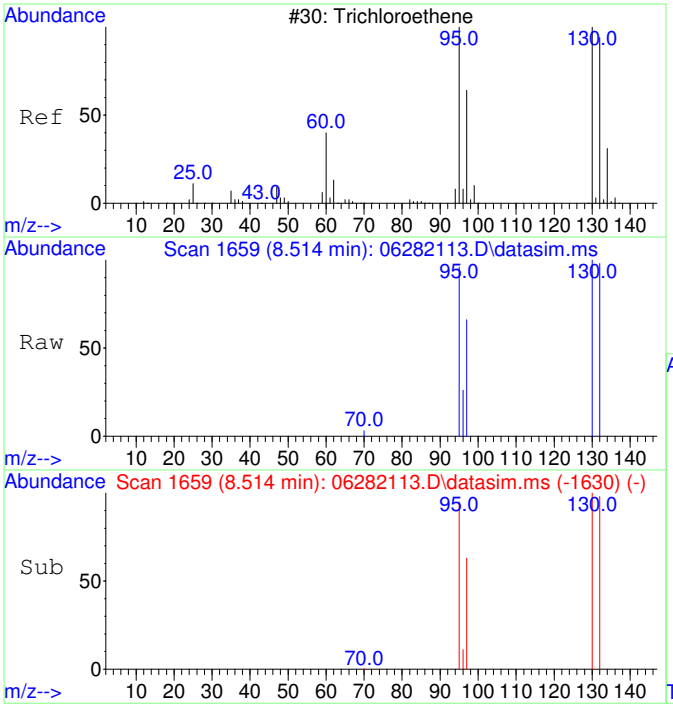


#6
Chloroform
Concen: 816.33 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 83 Resp: 6934

Ion	Ratio	Lower	Upper
83	100		
85	66.2	34.5	94.5
87	0.0	0.0	20.0

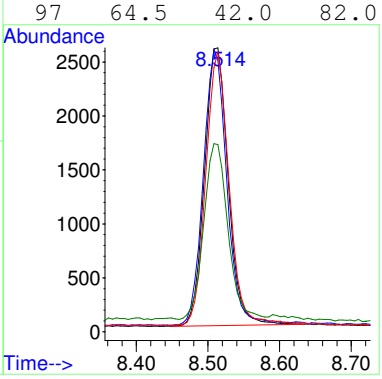


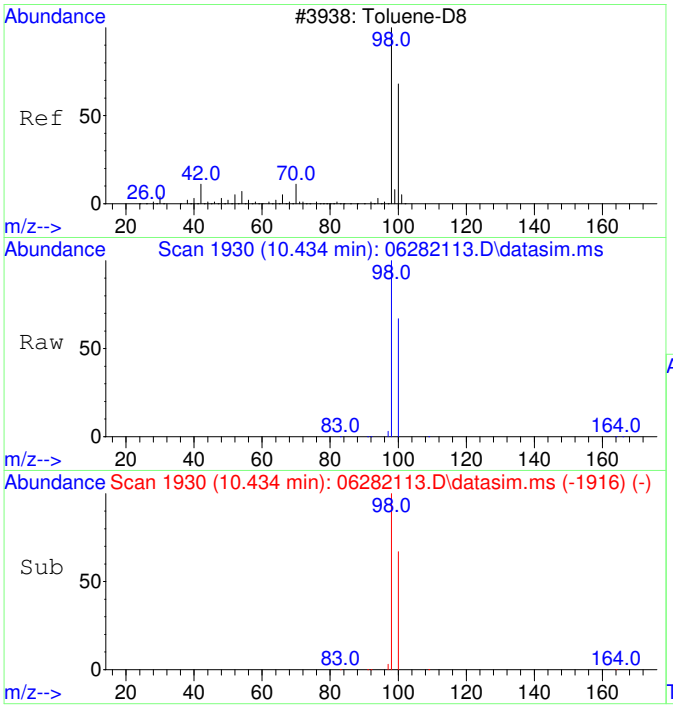


#11
Trichloroethene
Concen: 930.20 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion:130 Resp: 5911

Ion	Ratio	Lower	Upper
130	100		
95	96.4	65.8	125.8
132	95.8	75.8	115.8
97	64.5	42.0	82.0

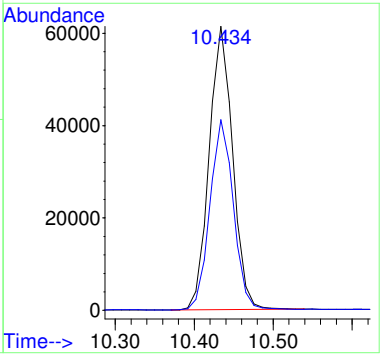


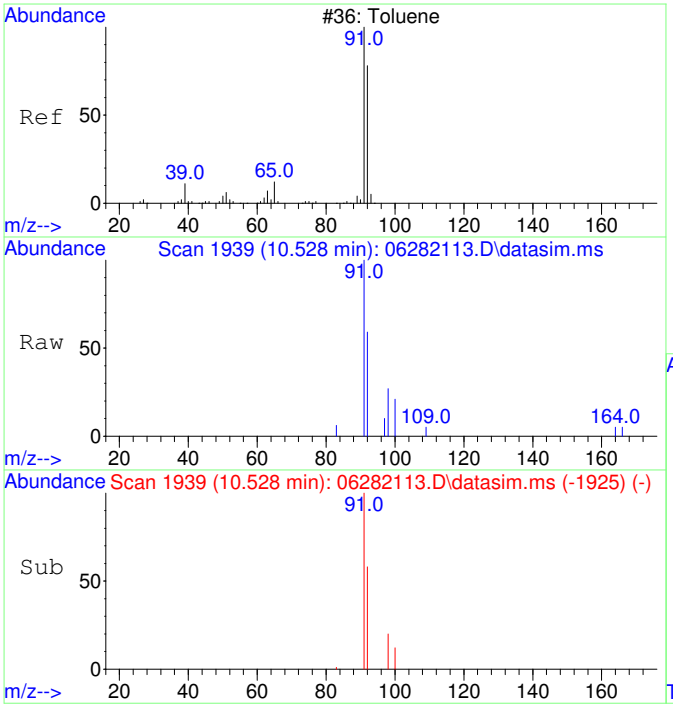


#12
Toluene-d8
Concen: 5026.94 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 98 Resp: 126159

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.3	97.3

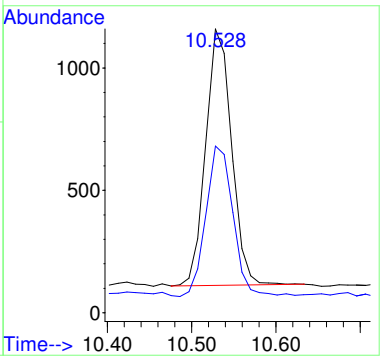


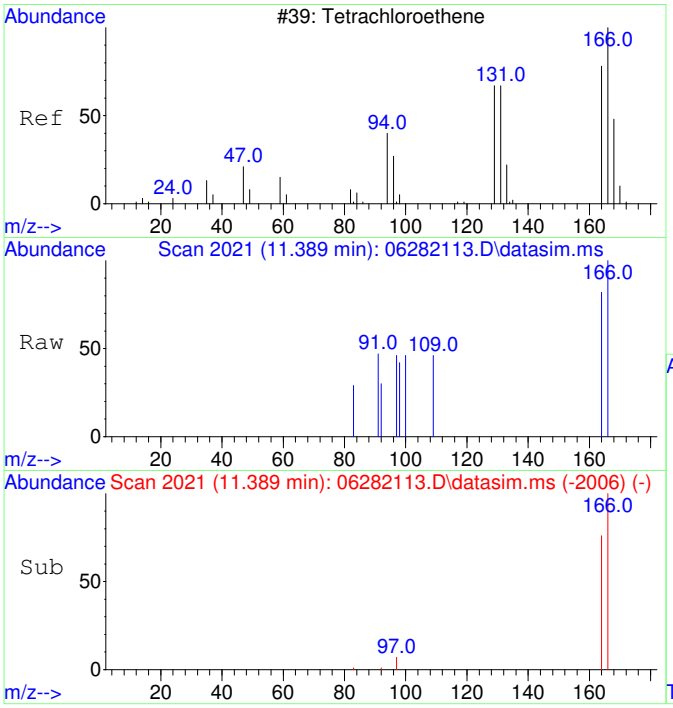


#13
Toluene
Concen: 68.63 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 91 Resp: 2242

Ion	Ratio	Lower	Upper
91	100		
92	60.8	30.2	90.2

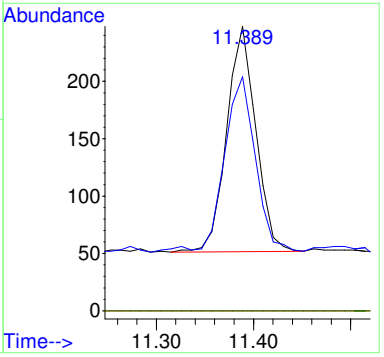


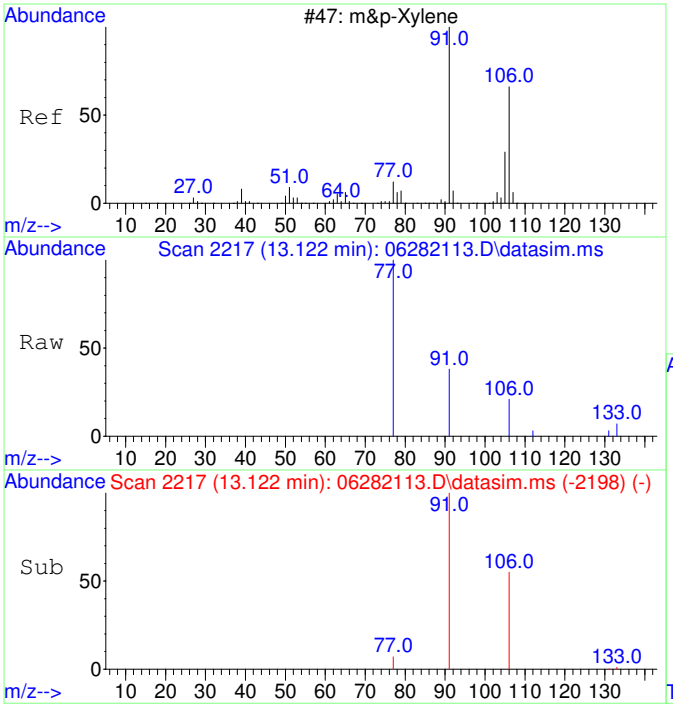


#15
Tetrachloroethene
Concen: 48.70 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion:166 Resp: 407

Ion	Ratio	Lower	Upper
166	100		
164	83.0	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

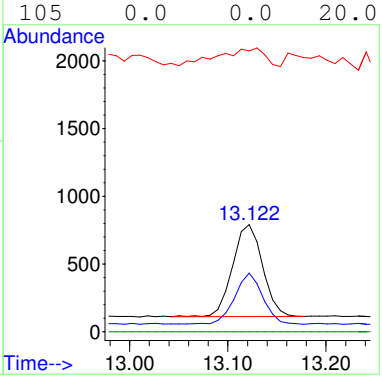


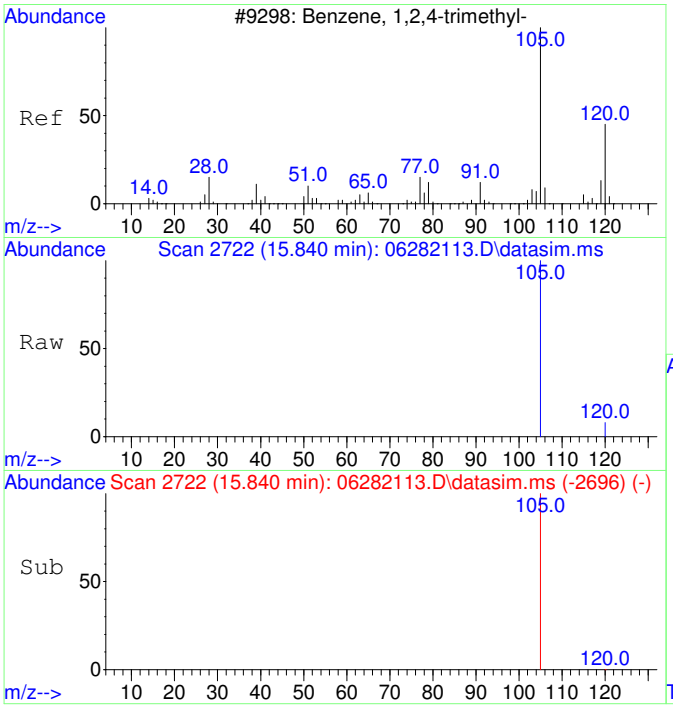


#19
m&p-Xylene
Concen: 43.36 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 91 Resp: 1433

Ion	Ratio	Lower	Upper
91	100		
106	51.6	21.4	81.4
77	34.7	0.0	42.7
105	0.0	0.0	20.0

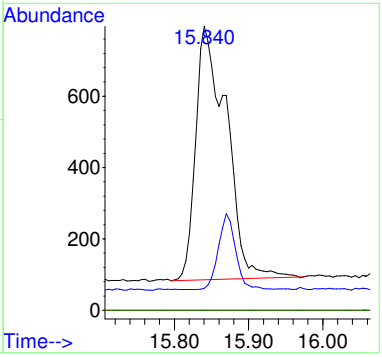


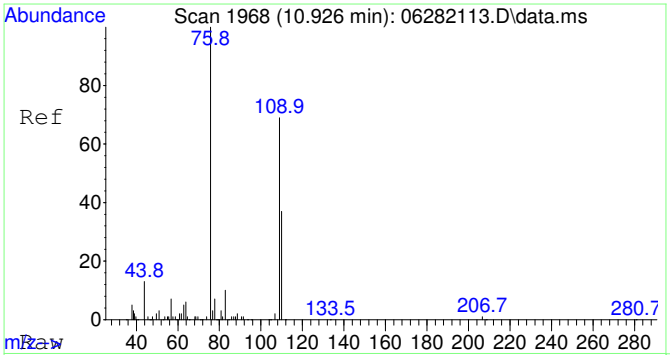


#23
1,2,4-Trimethylbenzene
Concen: 46.58 ug/L
RT: 15.840 min Scan# 2722
Delta R.T. -0.023 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion:105 Resp: 2037

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

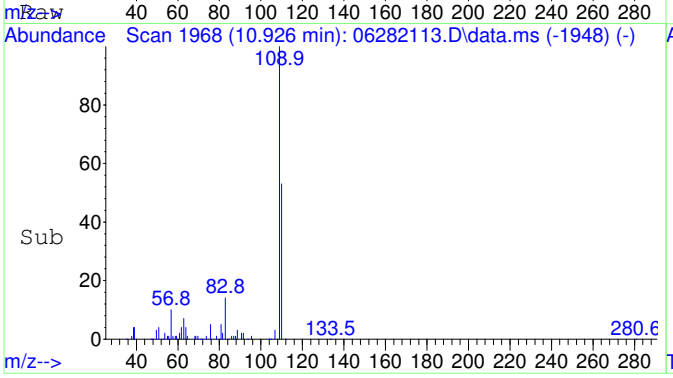


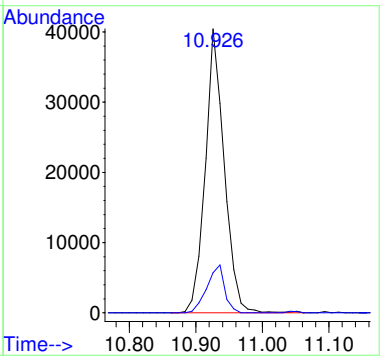


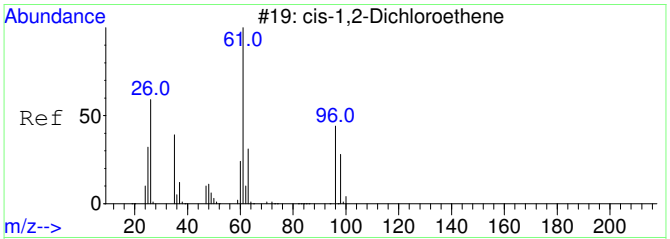
#25
2-Fluorotoluene SCAN
Concen: 4446.47 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion:109 Resp: 80186

Ion	Ratio	Lower	Upper
109	100		
83	15.7	0.0	44.5



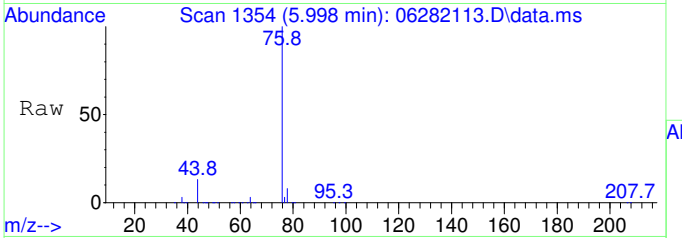


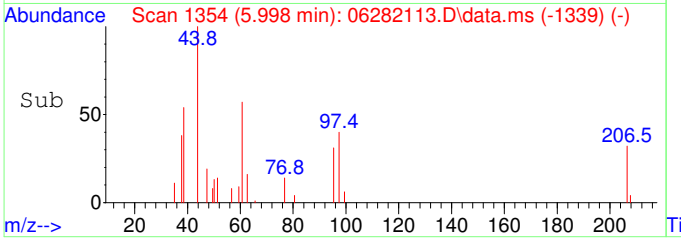


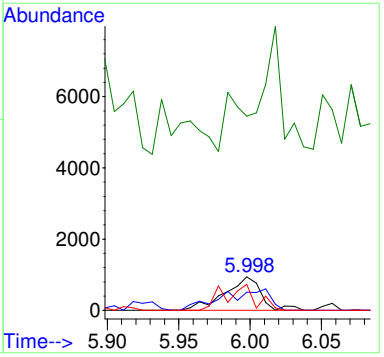
#29
cis-1,2-Dichloroethene SCAN
Concen: 301.72 ug/L
RT: 5.998 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

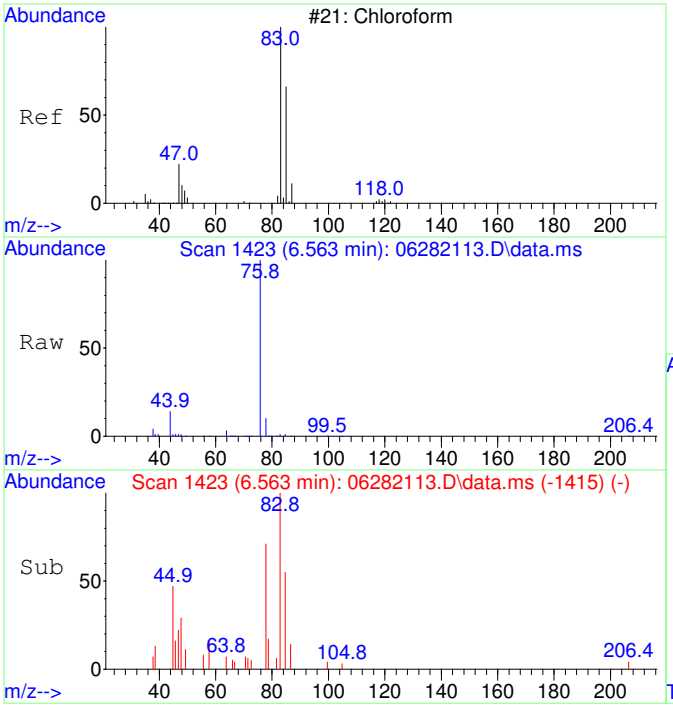
Tgt Ion: 61 Resp: 1681

Ion	Ratio	Lower	Upper
61	100		
96	25.8	36.9	96.9#
98	67.1	12.1	72.1
64	98.8	0.0	32.6#





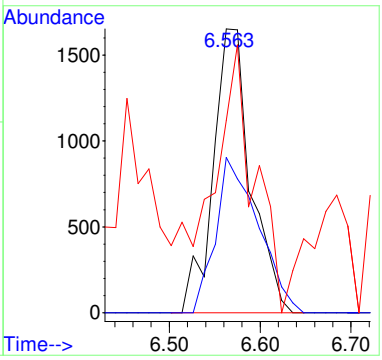


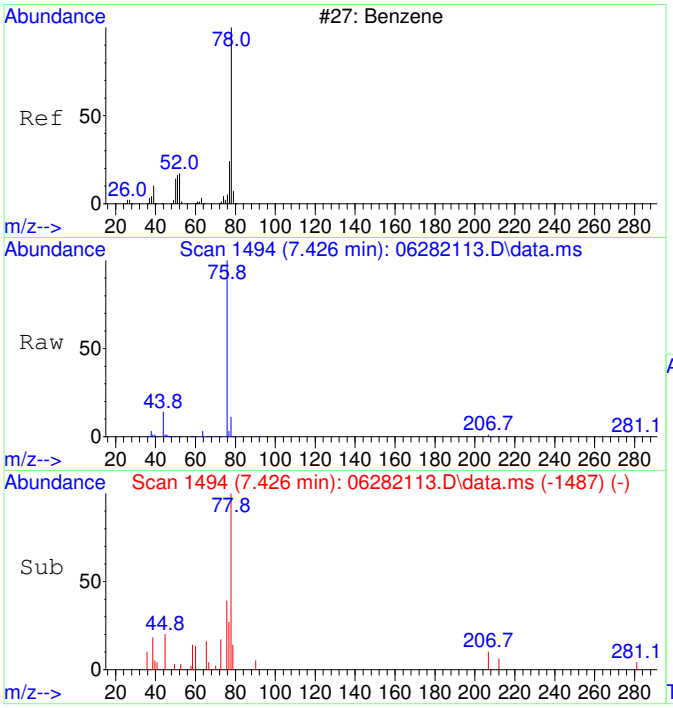


#30
Chloroform SCAN
Concen: 807.86 ug/L
RT: 6.563 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 83 Resp: 4760

Ion	Ratio	Lower	Upper
83	100		
85	62.1	27.1	87.1
47	70.4	7.5	67.5#

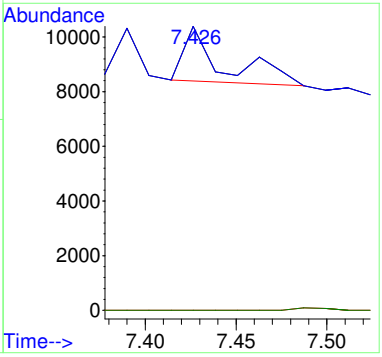


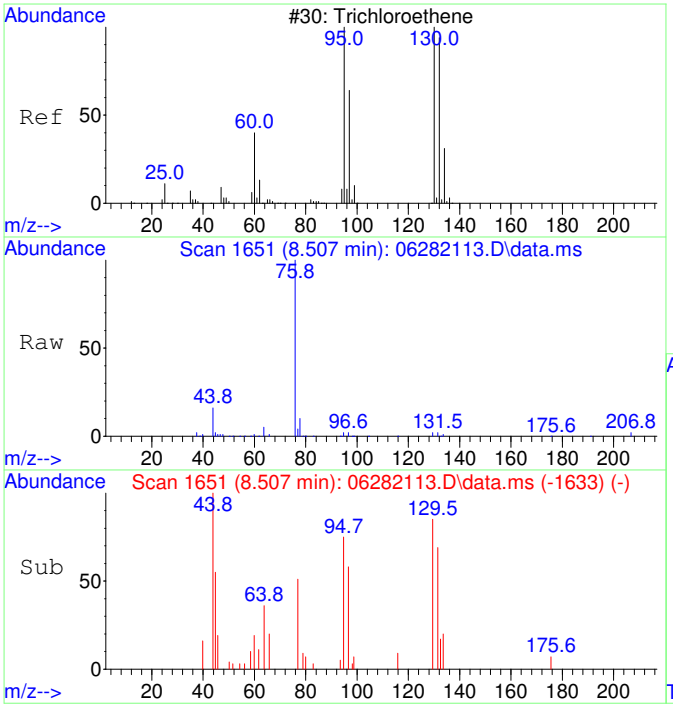


#33
Benzene SCAN
Concen: 210.24 ug/L
RT: 7.426 min Scan# 1494
Delta R.T. -0.012 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 78 Resp: 2906

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

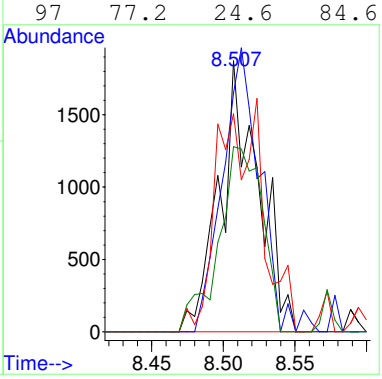


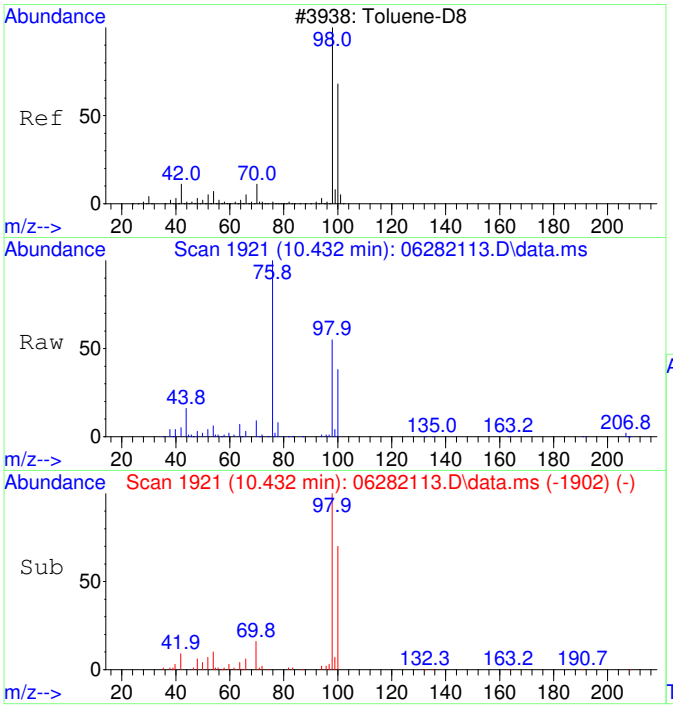


#35
Trichloroethene SCAN
Concen: 993.42 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion:130 Resp: 3500

Ion	Ratio	Lower	Upper
130	100		
95	102.7	60.0	120.0
132	99.0	54.3	114.3
97	77.2	24.6	84.6

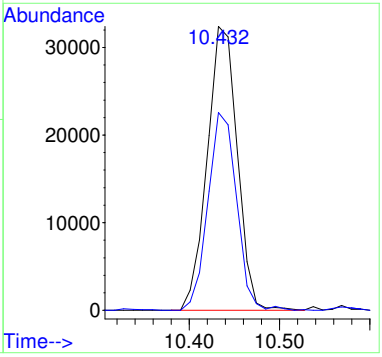


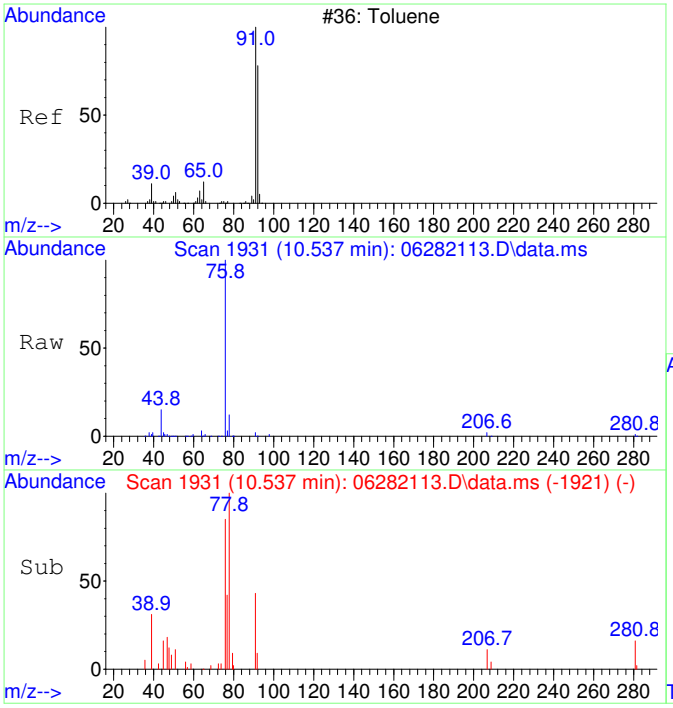


#36
Toluene-d8 SCAN
Concen: 4802.54 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 98 Resp: 75117

Ion	Ratio	Lower	Upper
98	100		
100	66.3	36.1	96.1

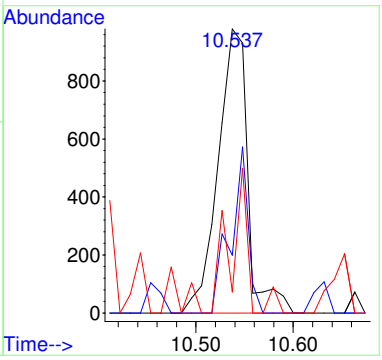


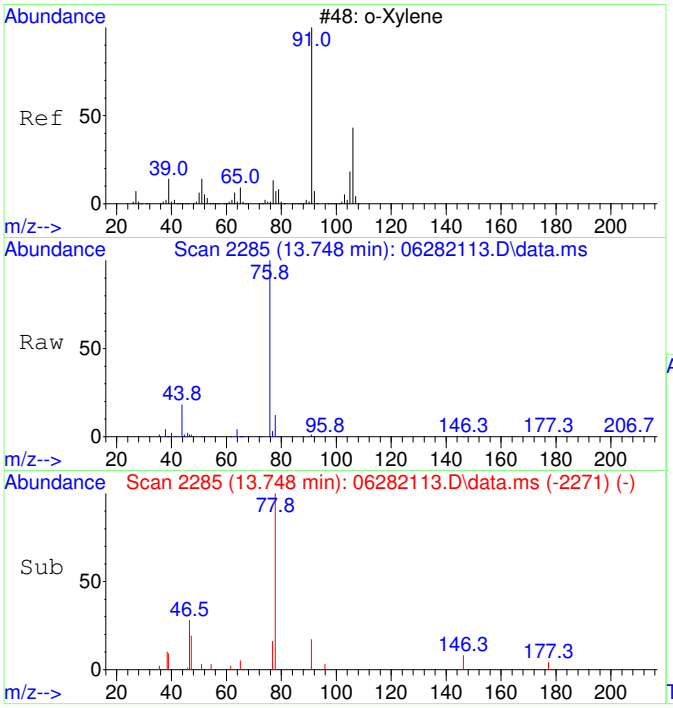


#37
Toluene SCAN
Concen: 102.60 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 91 Resp: 2077

Ion	Ratio	Lower	Upper
91	100		
92	34.7	26.5	86.5
65	28.0	0.0	40.6

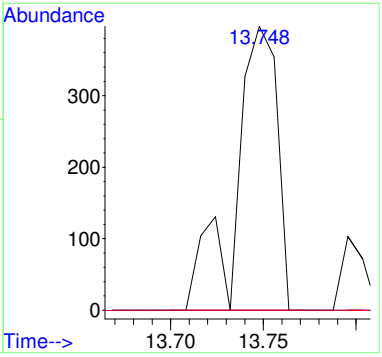




#44
o-Xylene SCAN
Concen: 28.27 ug/L
RT: 13.748 min Scan# 2285
Delta R.T. 0.008 min
Lab File: 06282113.D
Acq: 28 Jun 2021 14:13

Tgt Ion: 91 Resp: 626

Ion	Ratio	Lower	Upper
91	100		
106	0.0	19.1	79.1#
105	0.0	0.0	55.6



2106037-06

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282114.D
Acq On : 28 Jun 2021 14:40
InstName : AG5975C
Operator : TD
Sample : 2106037-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 29 06:06:31 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

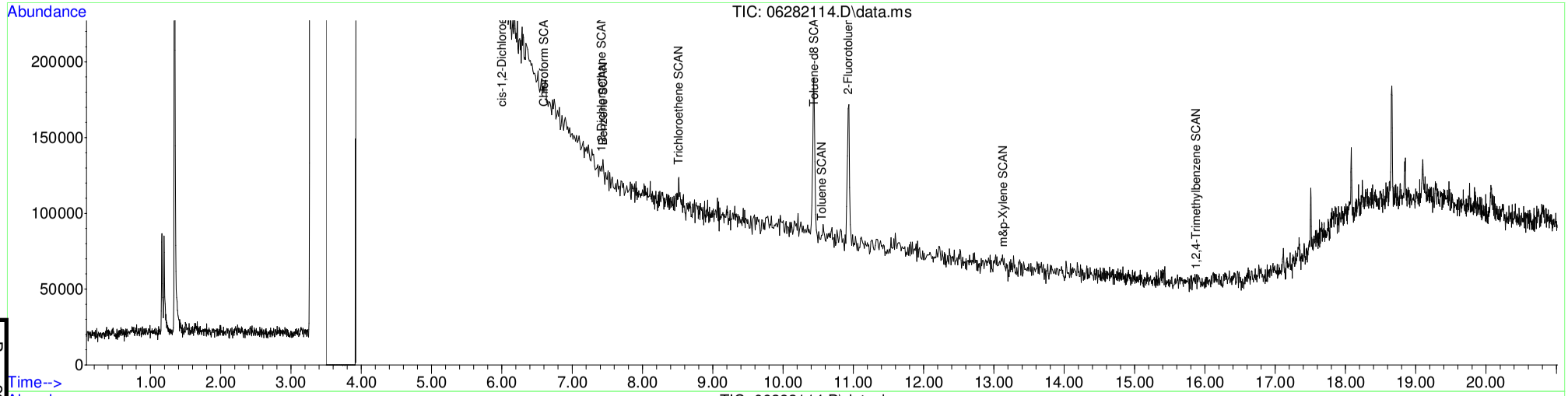
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	146605	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	126845	5051.13 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.02%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	193	30.22 ug/L #	88
5] cis-1,2-Dichloroethene	5.992	61	1946	269.46 ug/L #	100
6] Chloroform	6.564	83	7150	841.24 ug/L #	100
11] Trichloroethene	8.514	130	6024	947.39 ug/L	98
13] Toluene	10.528	91	2313	70.76 ug/L	100
15] Tetrachloroethene	11.389	166	395	47.24 ug/L #	93
19] m&p-Xylene	13.122	91	1395	42.18 ug/L #	92
23] 1,2,4-Trimethylbenzene	15.838	105	1703	38.92 ug/L #	30
25) 2-Fluorotoluene SCAN	10.926	109	83878	4648.31 ug/L	98
29) cis-1,2-Dichloroethene...	5.998	61	764	137.04 ug/L #	73
30) Chloroform SCAN	6.587	83	4839	820.76 ug/L #	49
33) Benzene SCAN	7.438	78	2240	161.96 ug/L #	90
34) 1,2-Dichloroethane SCAN	7.414	62	151	34.63 ug/L #	36
35) Trichloroethene SCAN	8.512	130	3914	1110.24 ug/L	86
36) Toluene-d8 SCAN	10.432	98	81662	5217.75 ug/L	100
37) Toluene SCAN	10.548	91	2090	103.18 ug/L #	79
43) m&p-Xylene SCAN	13.128	91	1296	32.17 ug/L #	69
47) 1,2,4-Trimethylbenzene...	15.867	105	1152	45.73 ug/L #	37

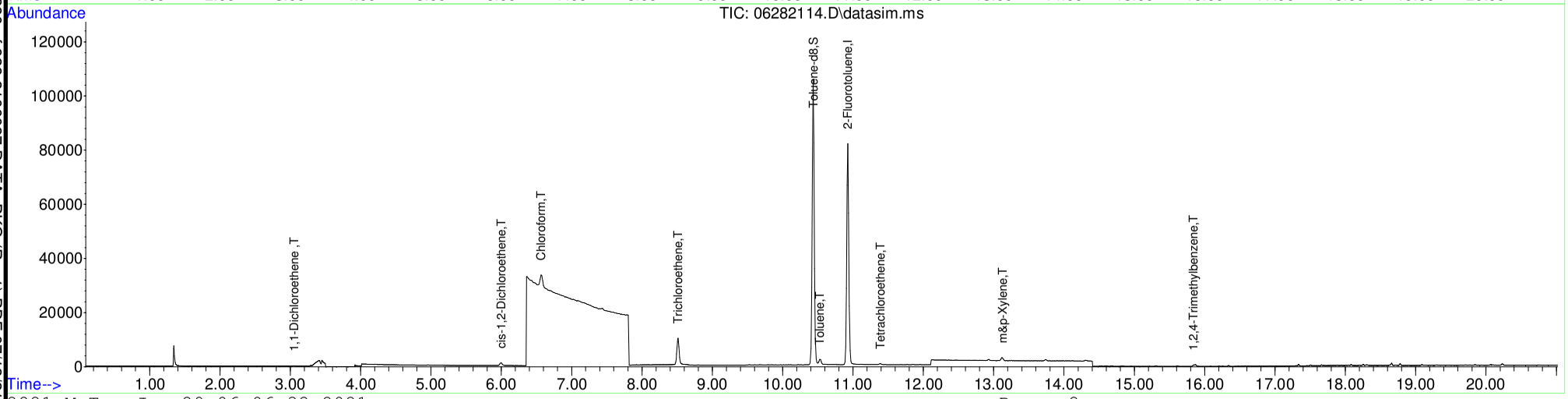
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282114.D
Acq On : 28 Jun 2021 14:40
InstName : AG5975C
Operator : TD
Sample : 2106037-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 29 06:06:31 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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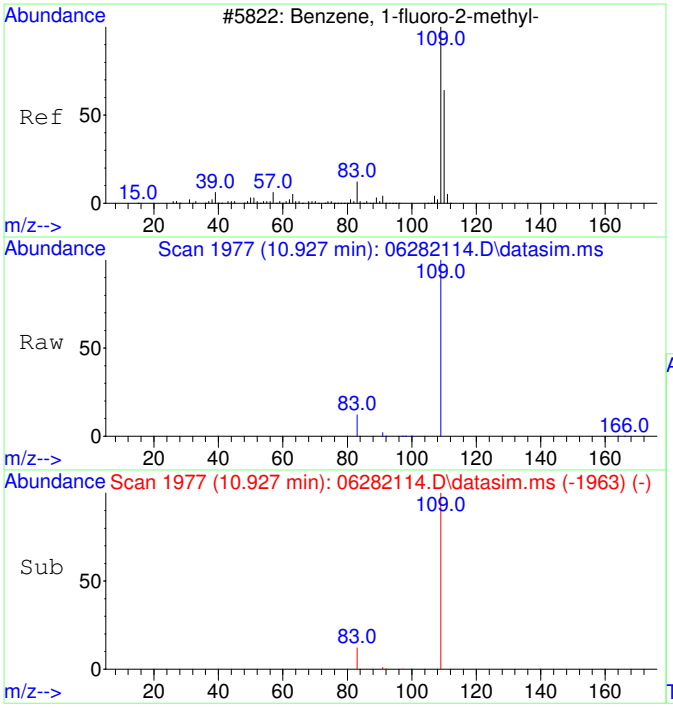
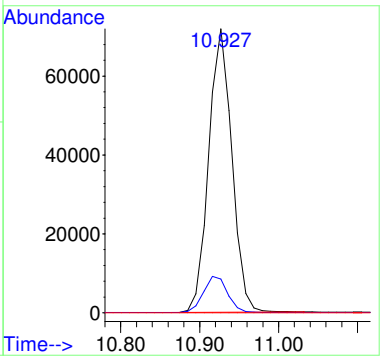
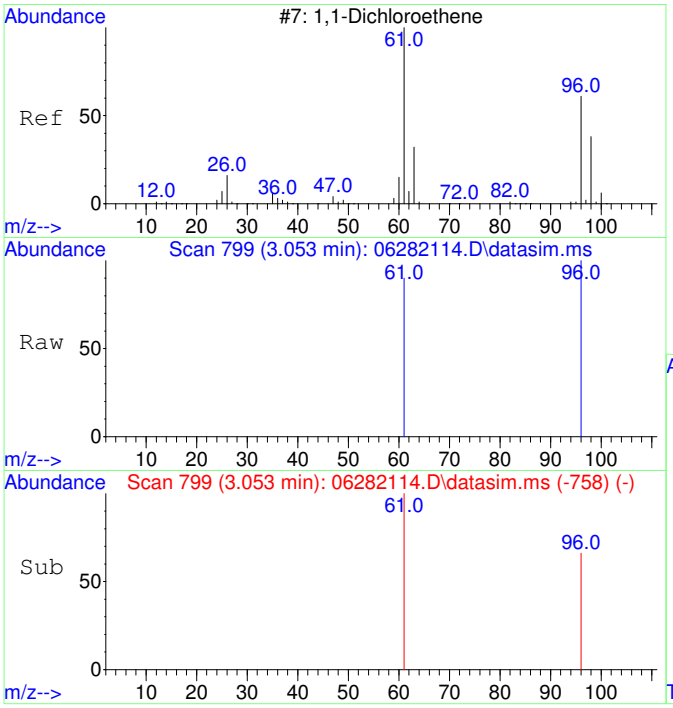


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion:109 Resp: 146605

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	43.7
110	0.0	0.0	20.0

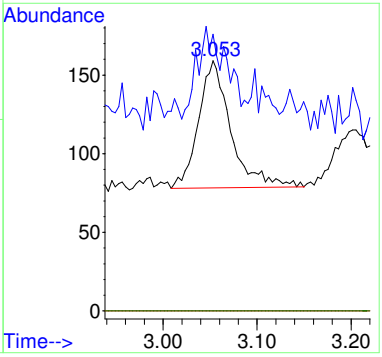


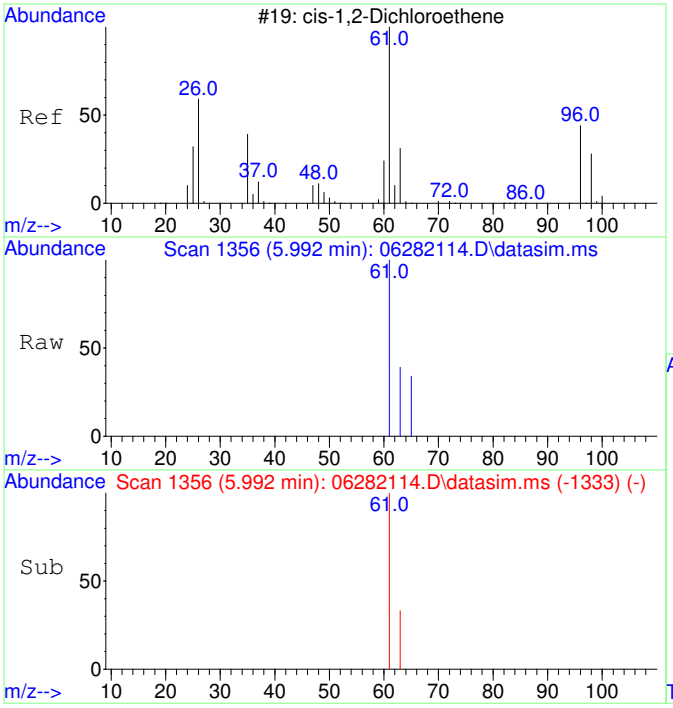


#2
1,1-Dichloroethene
Concen: 30.22 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 61 Resp: 193

Ion	Ratio	Lower	Upper
61	100		
96	55.4	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

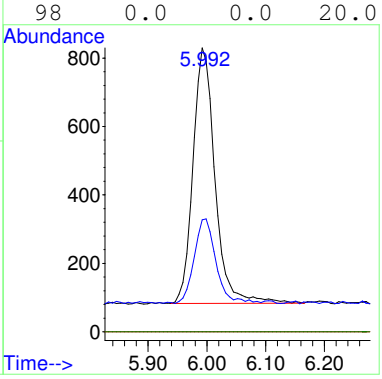


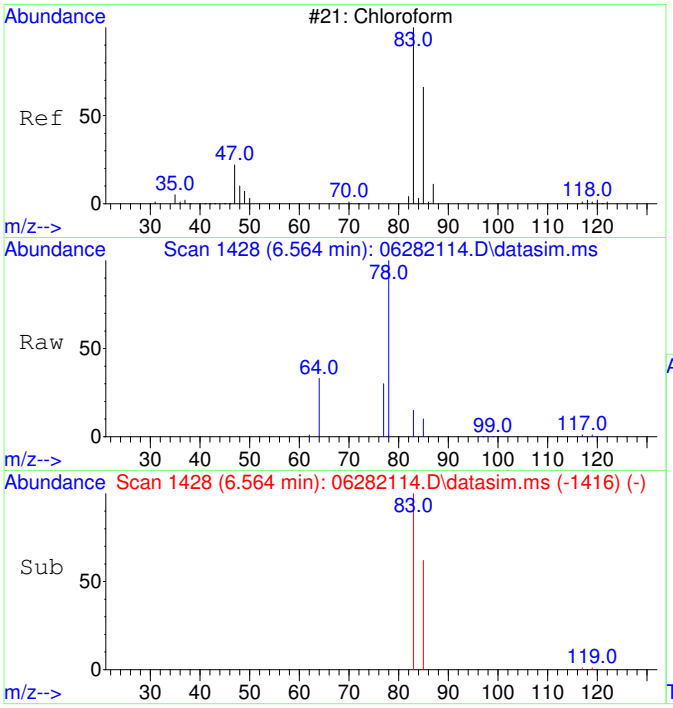


#5
cis-1,2-Dichloroethene
Concen: 269.46 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 61 Resp: 1946

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

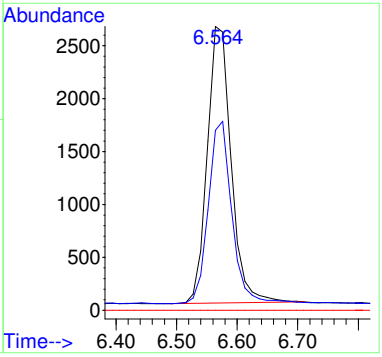


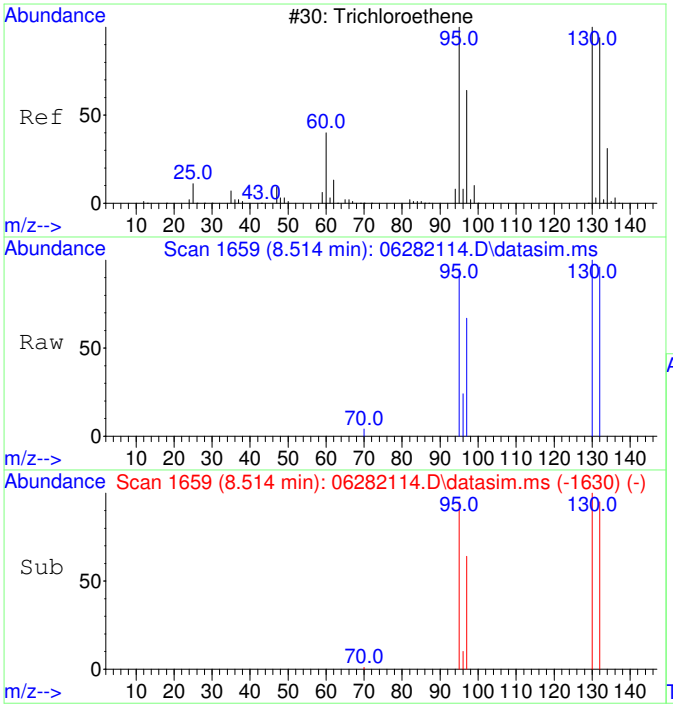


#6
Chloroform
Concen: 841.24 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 83 Resp: 7150

Ion	Ratio	Lower	Upper
83	100		
85	64.2	34.5	94.5
87	0.0	0.0	20.0

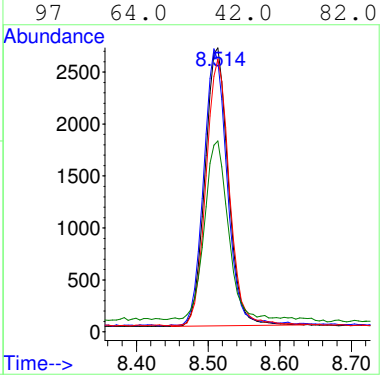


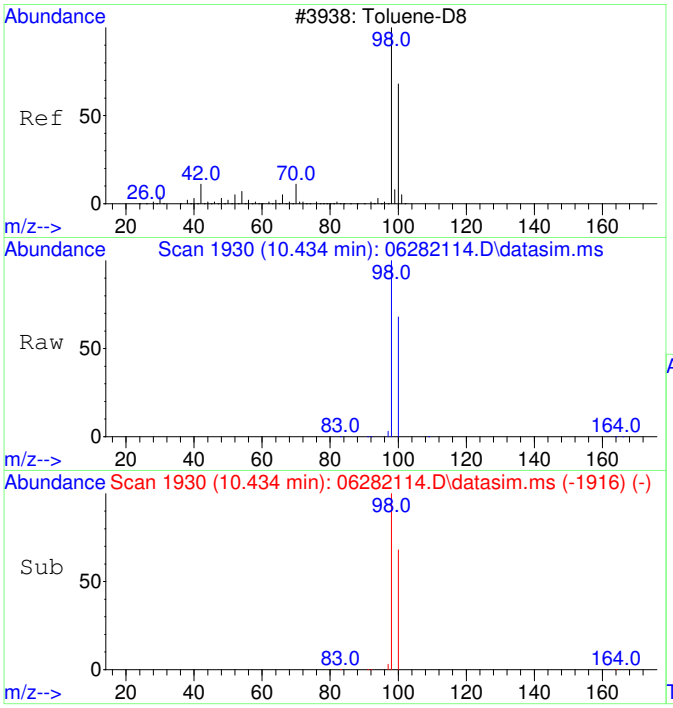


#11
Trichloroethene
Concen: 947.39 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion:130 Resp: 6024

Ion	Ratio	Lower	Upper
130	100		
95	98.3	65.8	125.8
132	95.5	75.8	115.8
97	64.0	42.0	82.0

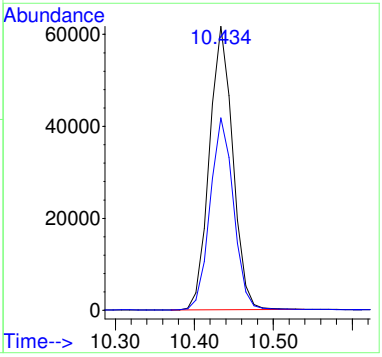


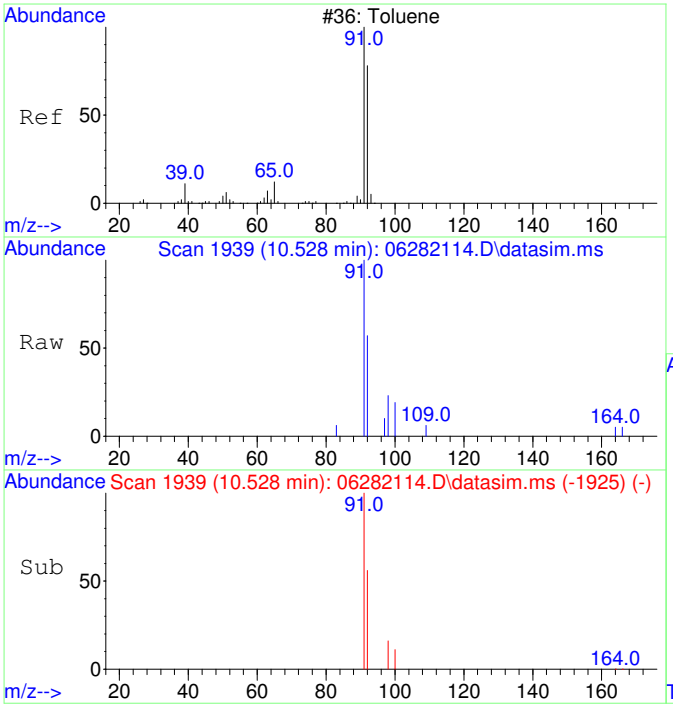


#12
Toluene-d8
Concen: 5051.13 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 98 Resp: 126845

Ion	Ratio	Lower	Upper
98	100		
100	67.4	37.3	97.3

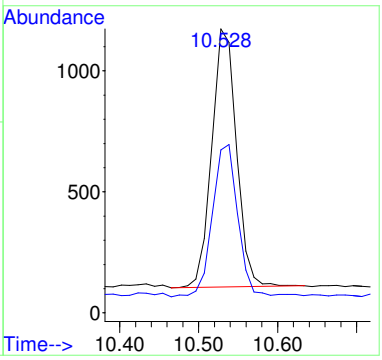


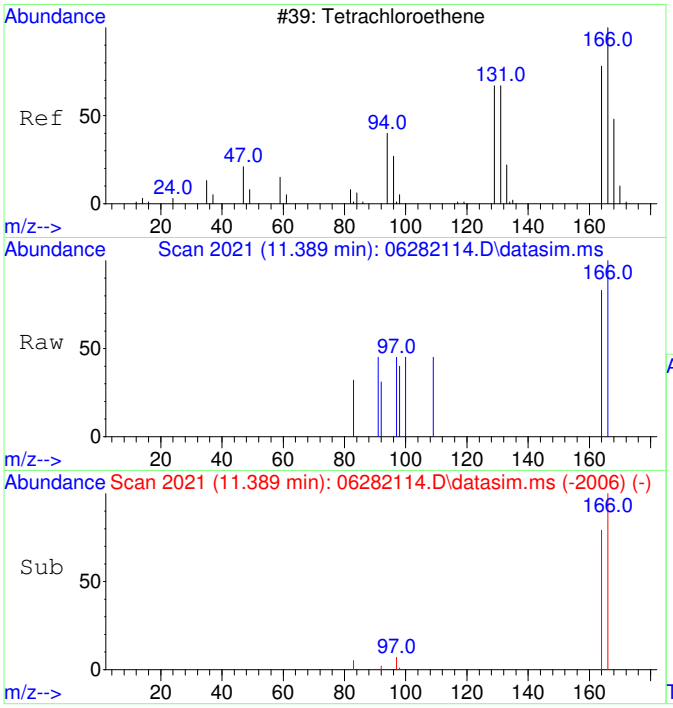


#13
Toluene
Concen: 70.76 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 91 Resp: 2313

Ion	Ratio	Lower	Upper
91	100		
92	60.4	30.2	90.2

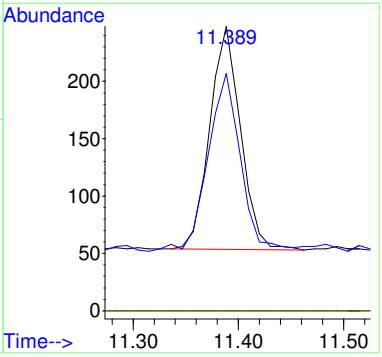


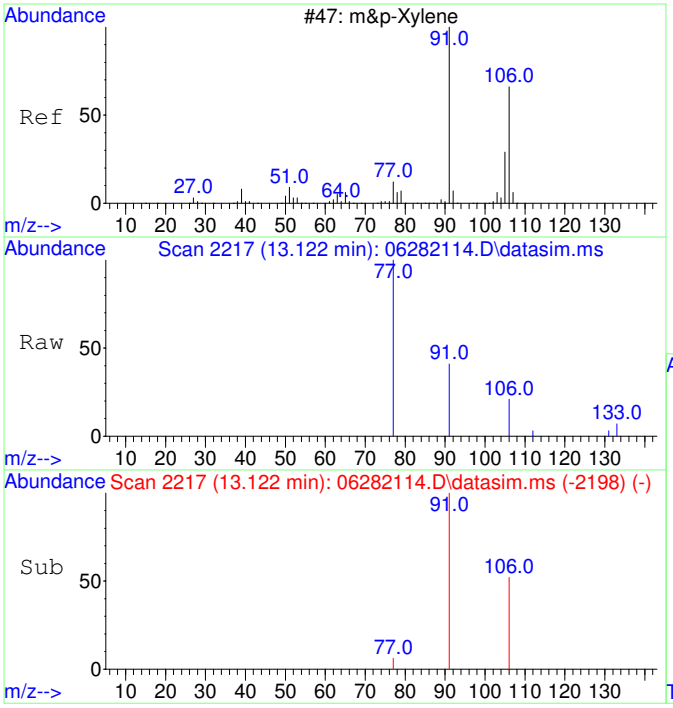


#15
Tetrachloroethene
Concen: 47.24 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion:166 Resp: 395

Ion	Ratio	Lower	Upper
166	100		
164	83.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

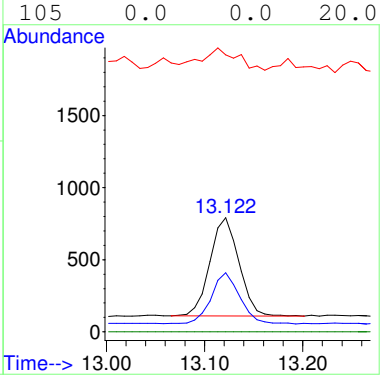


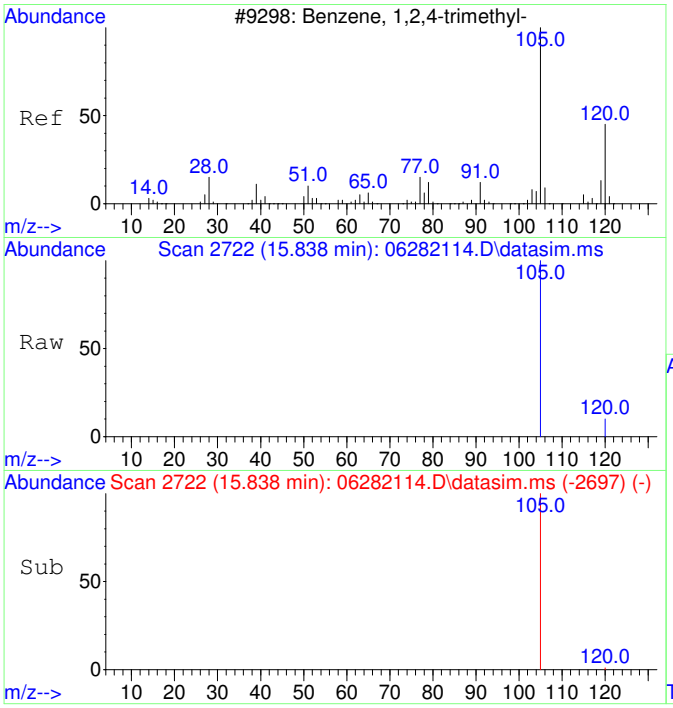


#19
m&p-Xylene
Concen: 42.18 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 91 Resp: 1395

Ion	Ratio	Lower	Upper
91	100		
106	51.4	21.4	81.4
77	29.0	0.0	42.7
105	0.0	0.0	20.0

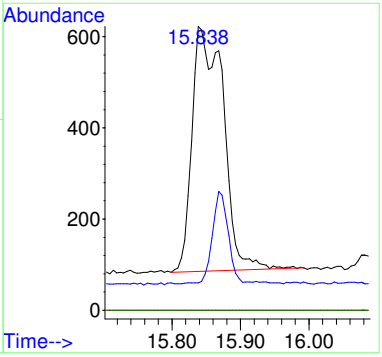


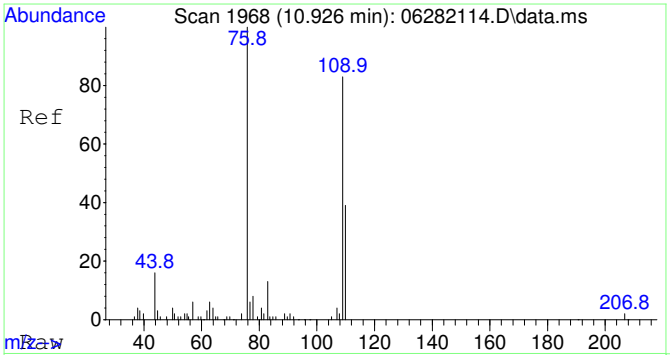


#23
1,2,4-Trimethylbenzene
Concen: 38.92 ug/L
RT: 15.838 min Scan# 2722
Delta R.T. -0.025 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion:105 Resp: 1703

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

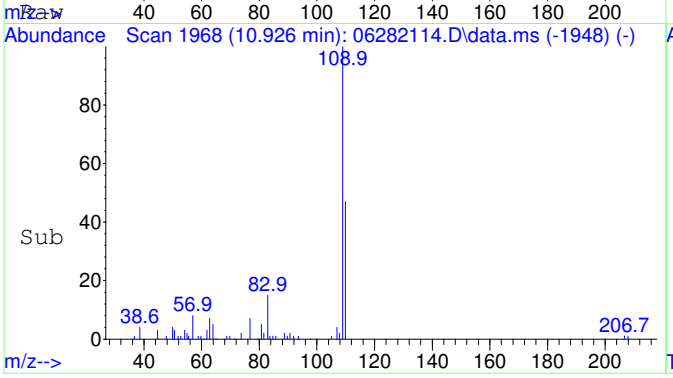


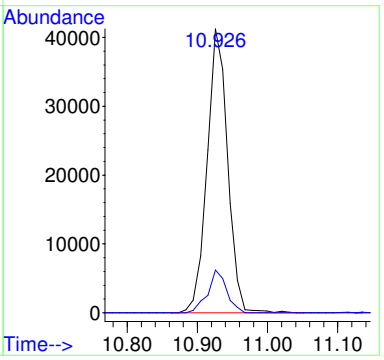


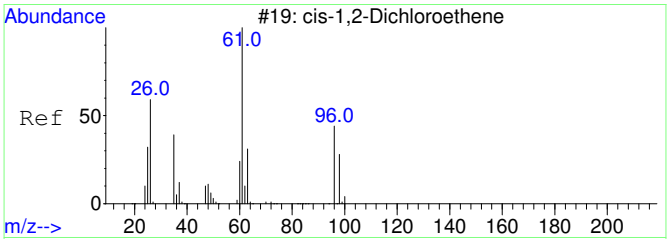
#25
2-Fluorotoluene SCAN
Concen: 4648.31 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion:109 Resp: 83878

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	44.5



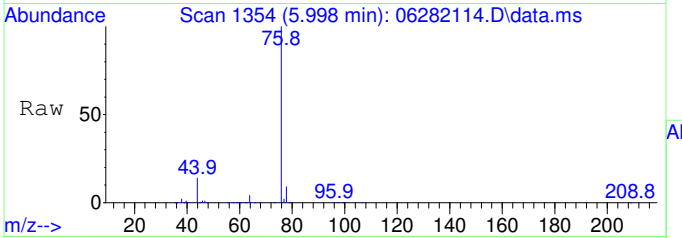


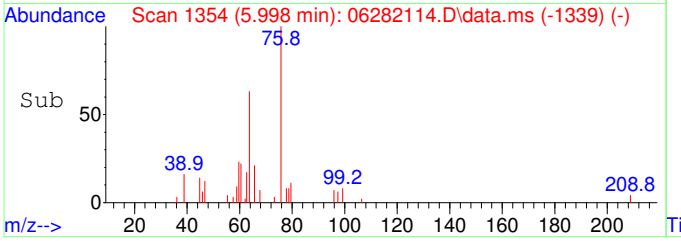


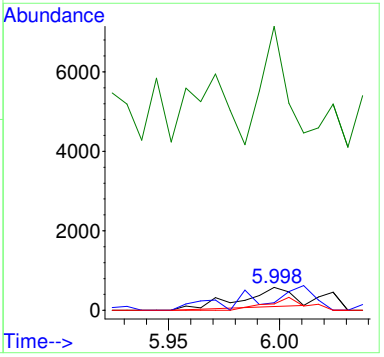
#29
cis-1,2-Dichloroethene SCAN
Concen: 137.04 ug/L
RT: 5.998 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

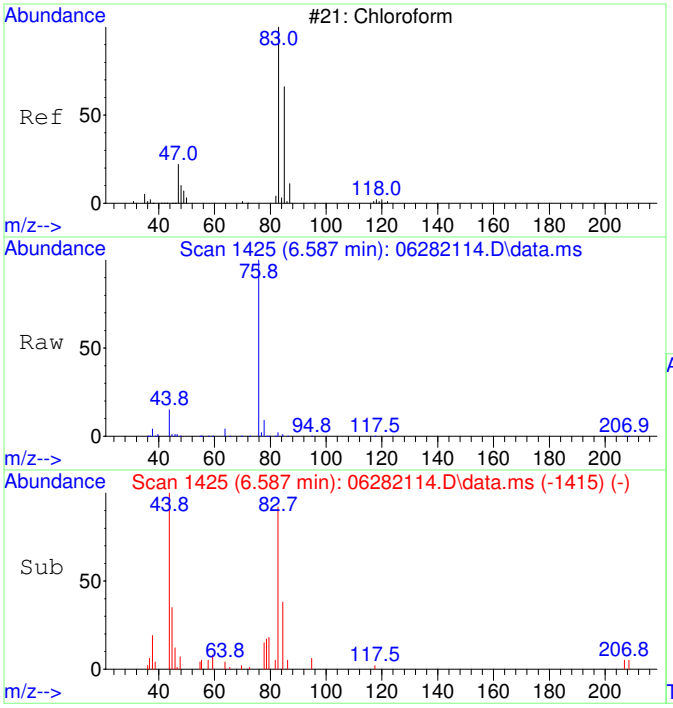
Tgt Ion: 61 Resp: 764

Ion	Ratio	Lower	Upper
61	100		
96	61.6	36.9	96.9
98	50.8	12.1	72.1
64	263.0	0.0	32.6#





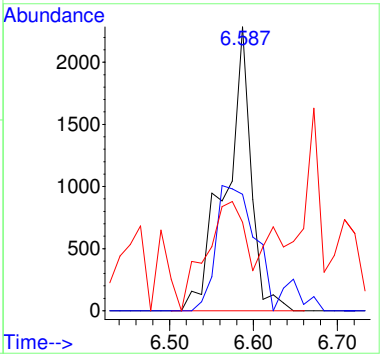


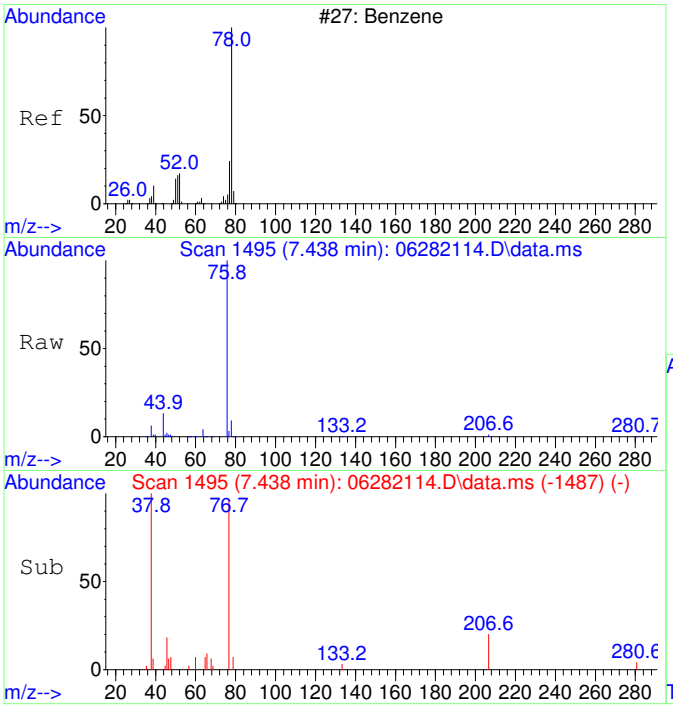


#30
Chloroform SCAN
Concen: 820.76 ug/L
RT: 6.587 min Scan# 1425
Delta R.T. 0.024 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 83 Resp: 4839

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	44.0	7.5	67.5

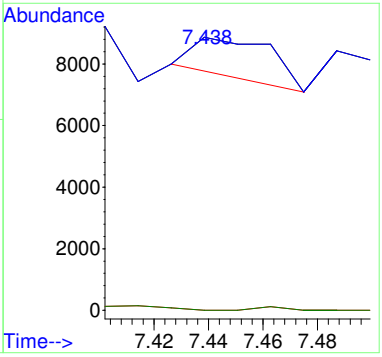


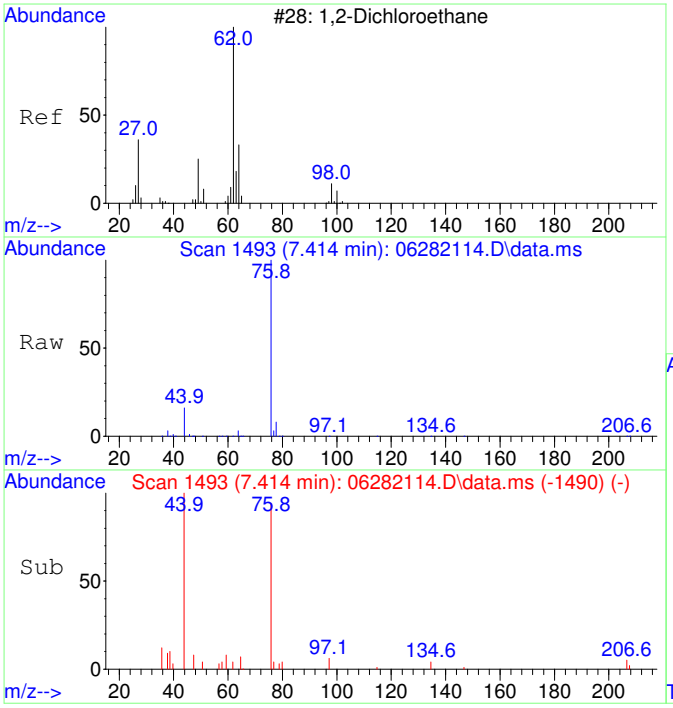


#33
Benzene SCAN
Concen: 161.96 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 78 Resp: 2240

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

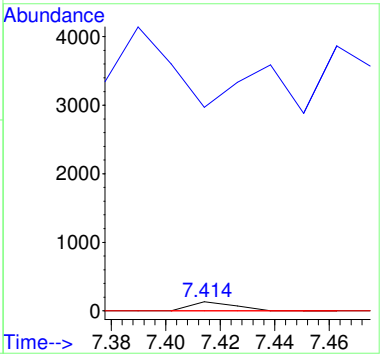


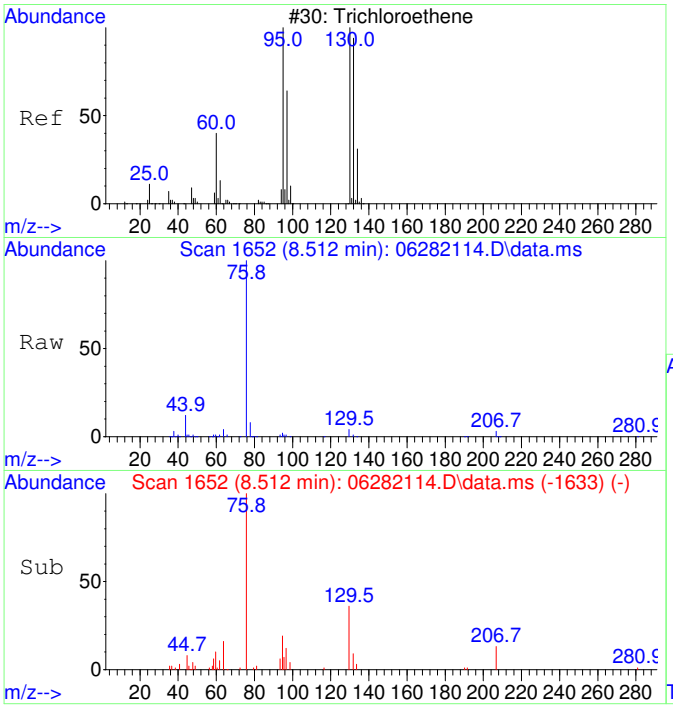


#34
1,2-Dichloroethane SCAN
Concen: 34.63 ug/L
RT: 7.414 min Scan# 1493
Delta R.T. -0.061 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 62 Resp: 151

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

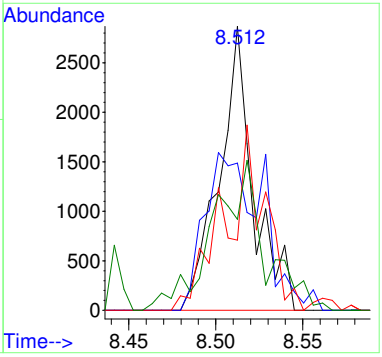


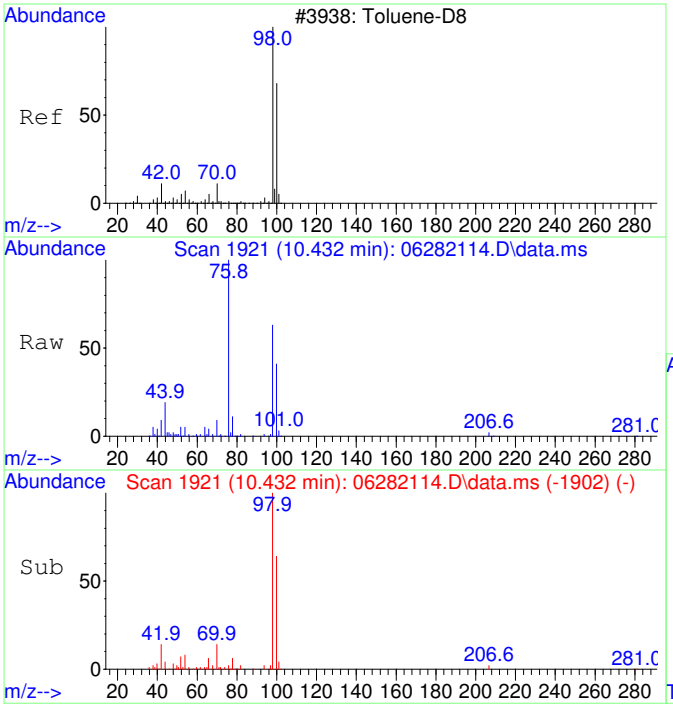


#35
Trichloroethene SCAN
Concen: 1110.24 ug/L
RT: 8.512 min Scan# 1652
Delta R.T. 0.006 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion:130 Resp: 3914

Ion	Ratio	Lower	Upper
130	100		
95	93.9	60.0	120.0
132	75.7	54.3	114.3
97	80.1	24.6	84.6

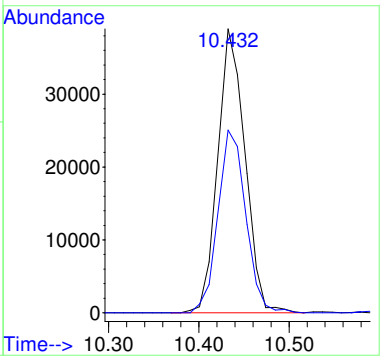


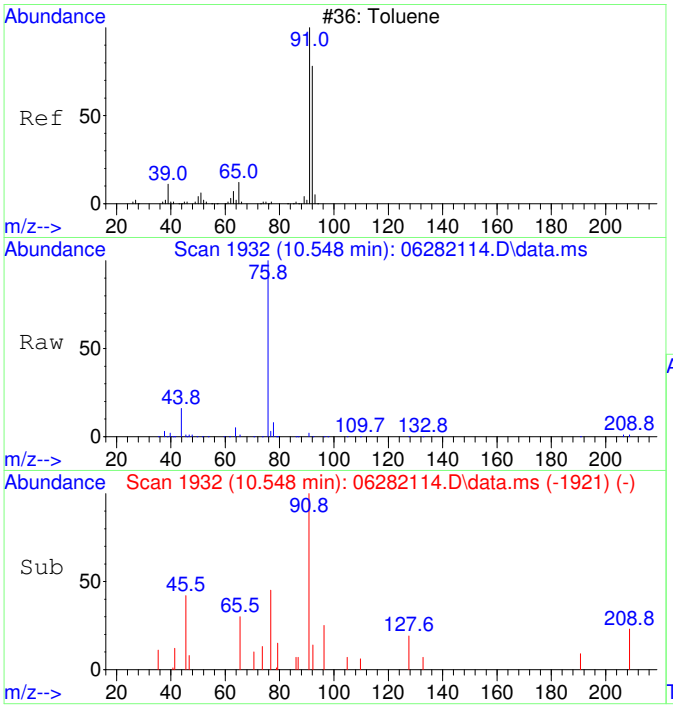


#36
Toluene-d8 SCAN
Concen: 5217.75 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 98 Resp: 81662

Ion	Ratio	Lower	Upper
98	100		
100	65.9	36.1	96.1

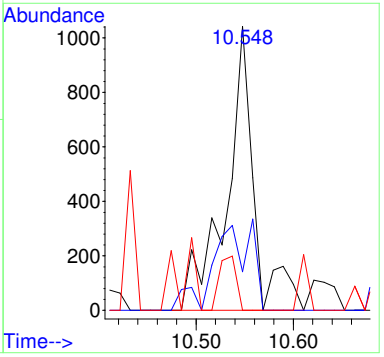


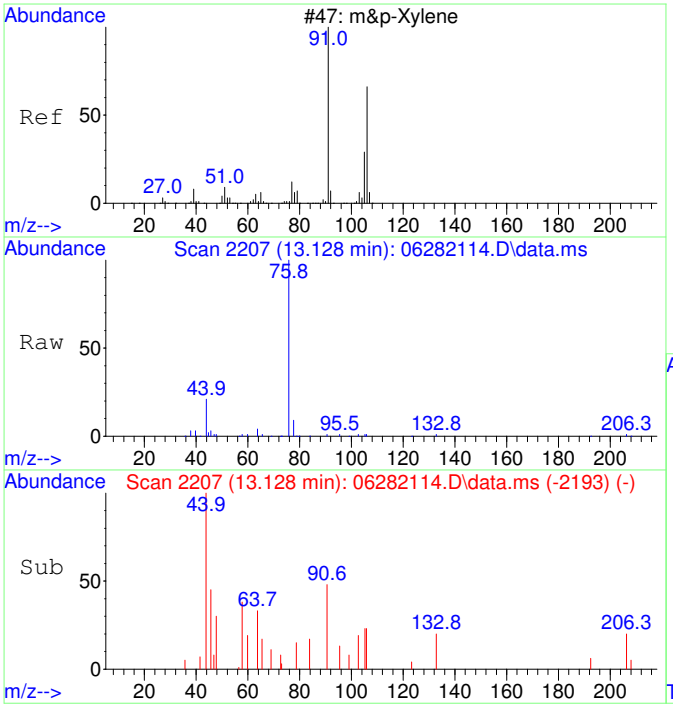


#37
Toluene SCAN
Concen: 103.18 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 91 Resp: 2090

Ion	Ratio	Lower	Upper
91	100		
92	41.8	26.5	86.5
65	0.0	0.0	40.6

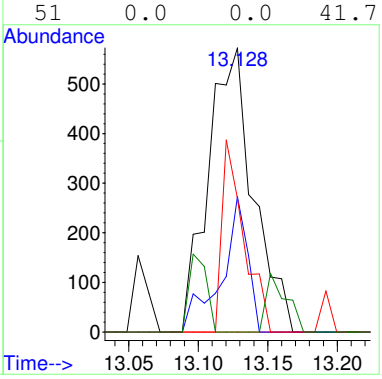


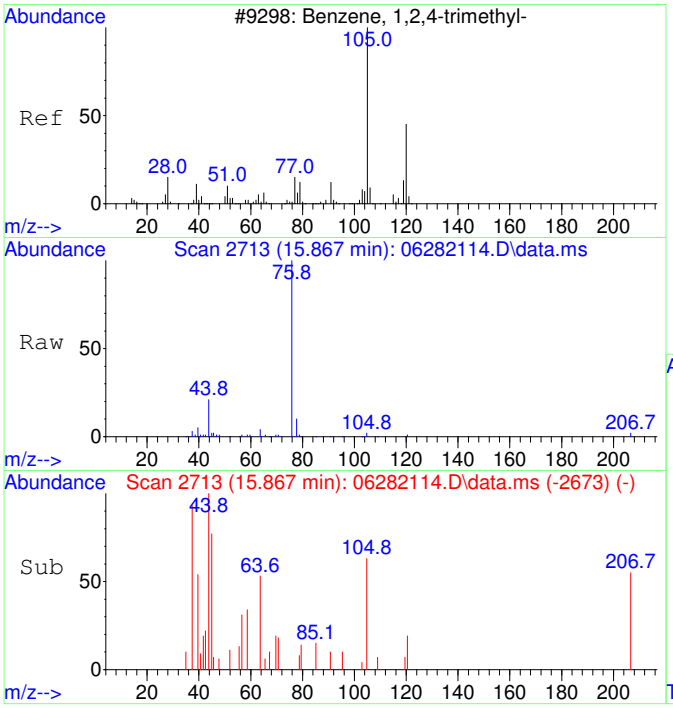


#43
m&p-Xylene SCAN
Concen: 32.17 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion: 91 Resp: 1296

Ion	Ratio	Lower	Upper
91	100		
106	27.6	21.2	81.2
105	32.7	0.0	51.6
51	0.0	0.0	41.7

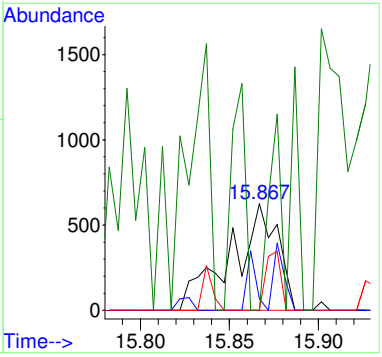




#47
1,2,4-Trimethylbenzene SCAN
Concen: 45.73 ug/L
RT: 15.867 min Scan# 2713
Delta R.T. 0.000 min
Lab File: 06282114.D
Acq: 28 Jun 2021 14:40

Tgt Ion:105 Resp: 1152

Ion	Ratio	Lower	Upper
105	100		
120	10.8	15.6	75.6#
119	0.0	0.0	38.2
77	61.9	0.0	44.0#



2106037-07

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282115.D
Acq On : 28 Jun 2021 15:06
InstName : AG5975C
Operator : TD
Sample : 2106037-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 29 06:06:37 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

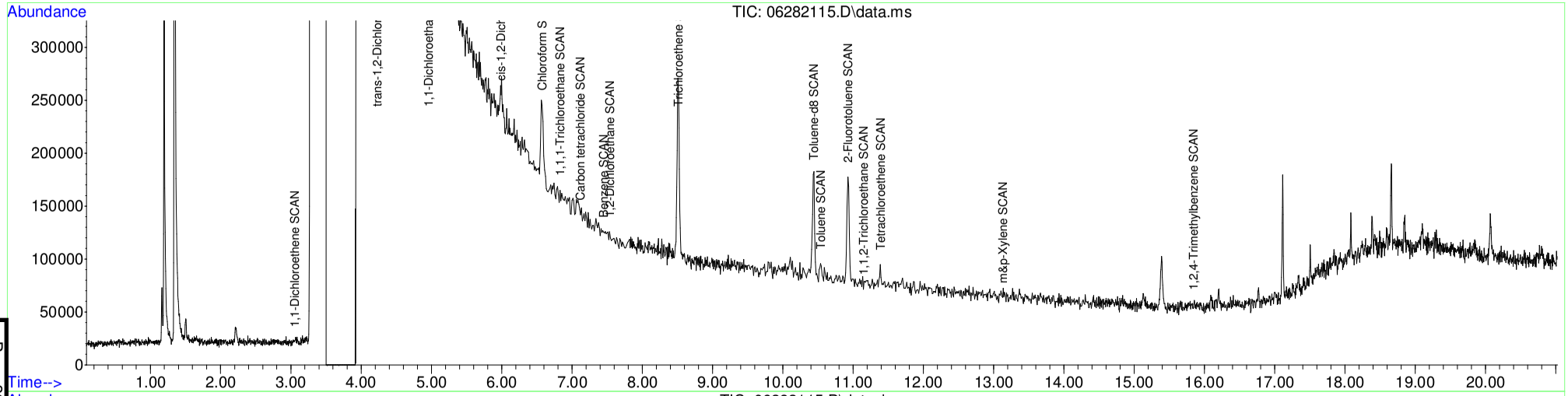
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	150278	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	129860	5044.80 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.90%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	2934	448.25 ug/L #	99
3] trans-1,2-Dichloroethene	4.214	61	1630	289.36 ug/L #	97
4] 1,1-Dichloroethane	4.964	63	2741	354.78 ug/L #	93
5] cis-1,2-Dichloroethene	5.992	61	33492	4524.27 ug/L #	100
6] Chloroform	6.564	83	118877	13644.71 ug/L #	100
7] 1,1,1-Trichloroethane	6.832	97	1598	197.13 ug/L #	95
8] Carbon tetrachloride	7.111	117	284	40.21 ug/L #	96
11] Trichloroethene	8.508	130	115215	17676.94 ug/L	99
13] Toluene	10.528	91	21299	635.67 ug/L	98
15] Tetrachloroethene	11.389	166	8380	977.68 ug/L #	99
19] m&p-Xylene	13.121	91	2252	66.43 ug/L #	94
23] 1,2,4-Trimethylbenzene	15.868	105	2605	58.08 ug/L #	63
25) 2-Fluorotoluene SCAN	10.926	109	86481	4675.43 ug/L	95
26) 1,1-Dichloroethene SCAN	3.052	61	512	131.05 ug/L #	67
27) trans-1,2-Dichloroethe...	4.226	61	965	228.32 ug/L #	56
28) 1,1-Dichloroethane SCAN	4.963	63	1290	227.74 ug/L	83
29) cis-1,2-Dichloroethene...	5.991	61	23265	4071.22 ug/L	95
30) Chloroform SCAN	6.575	83	78328	12960.76 ug/L	82
31) 1,1,1-Trichloroethane ...	6.830	97	605	107.14 ug/L #	17
32) Carbon tetrachloride SCAN	7.122	117	353	75.76 ug/L #	17
33) Benzene SCAN	7.451	78	6366	449.02 ug/L #	90
34) 1,2-Dichloroethane SCAN	7.536	62	125	27.97 ug/L #	1
35) Trichloroethene SCAN	8.507	130	67361	18640.57 ug/L	85
36) Toluene-d8 SCAN	10.432	98	72293	4506.22 ug/L	88
37) Toluene SCAN	10.537	91	13338	642.37 ug/L	98
38) 1,1,2-Trichloroethane ...	11.146	97	343	69.34 ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	5425	1084.97 ug/L #	82
43) m&p-Xylene SCAN	13.128	91	1960	47.47 ug/L #	48
47) 1,2,4-Trimethylbenzene...	15.847	105	1331	51.54 ug/L #	1

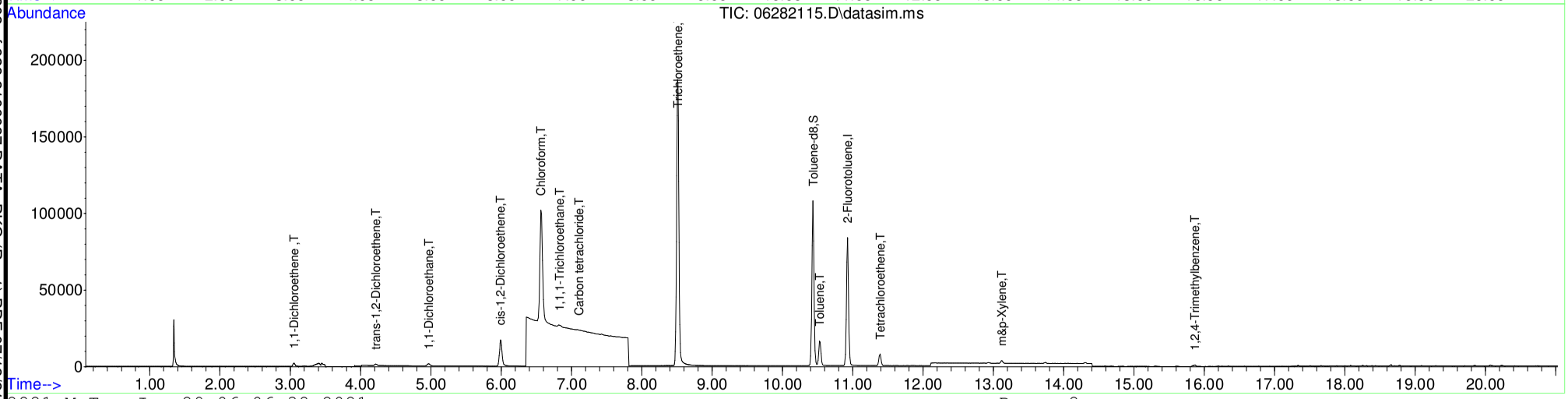
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282115.D
Acq On : 28 Jun 2021 15:06
InstName : AG5975C
Operator : TD
Sample : 2106037-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 29 06:06:37 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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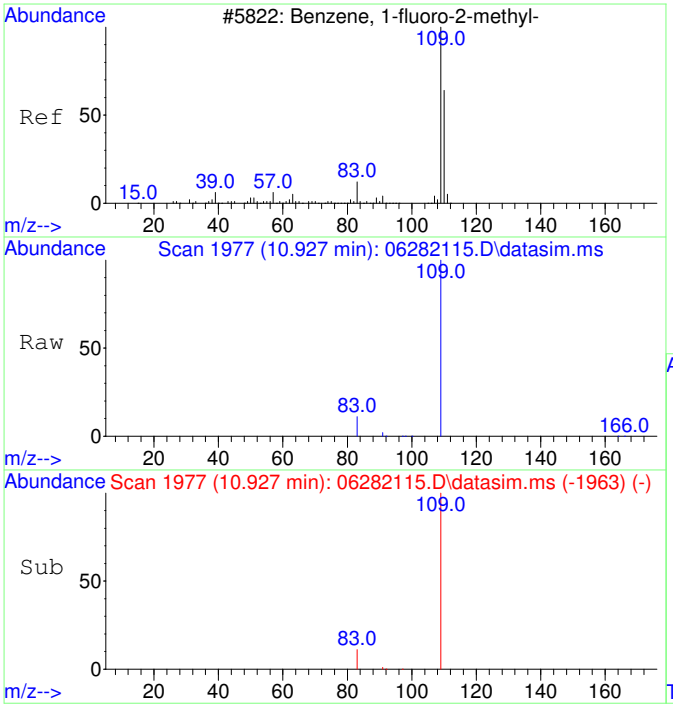
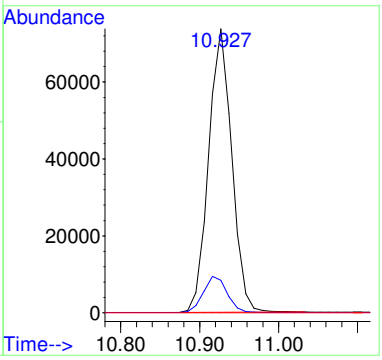
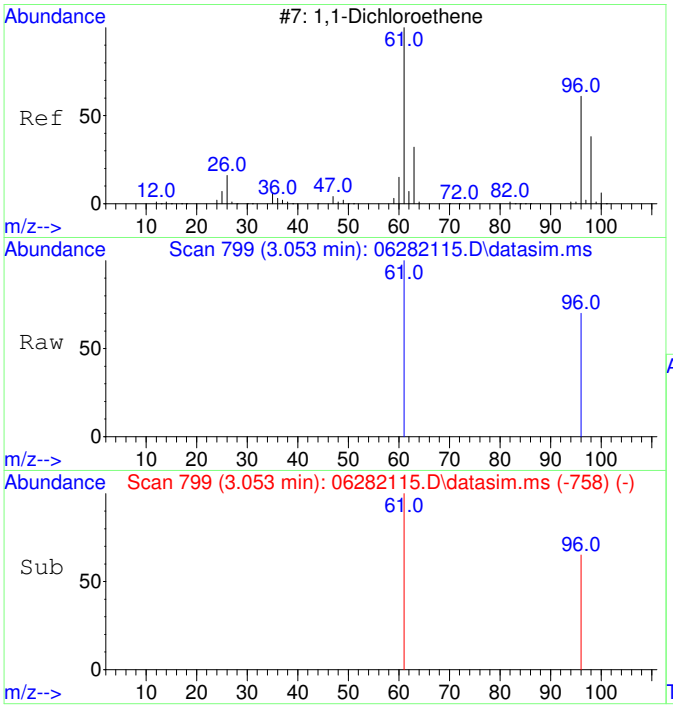


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:109 Resp: 150278

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

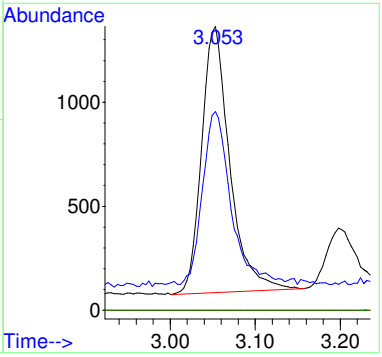


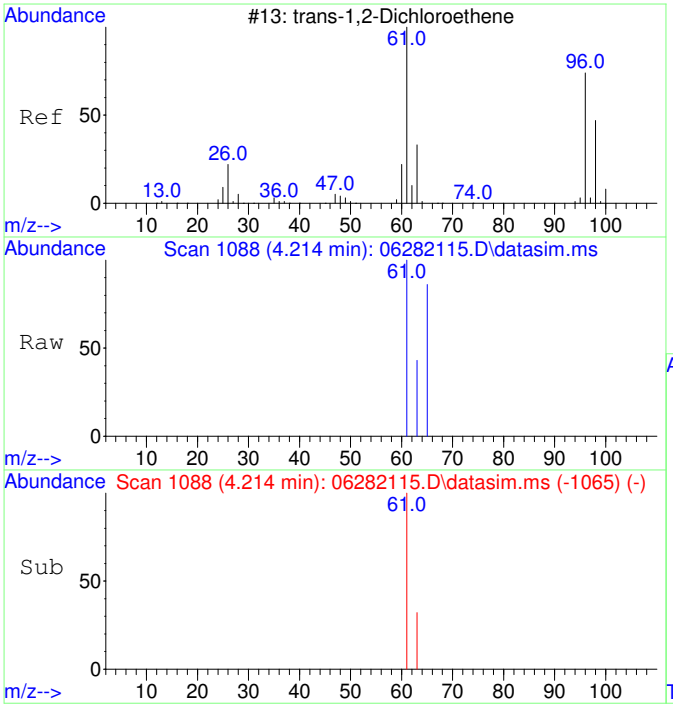


#2
1,1-Dichloroethene
Concen: 448.25 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 61 Resp: 2934

Ion	Ratio	Lower	Upper
61	100		
96	65.8	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

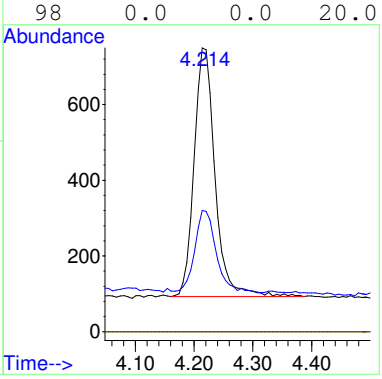


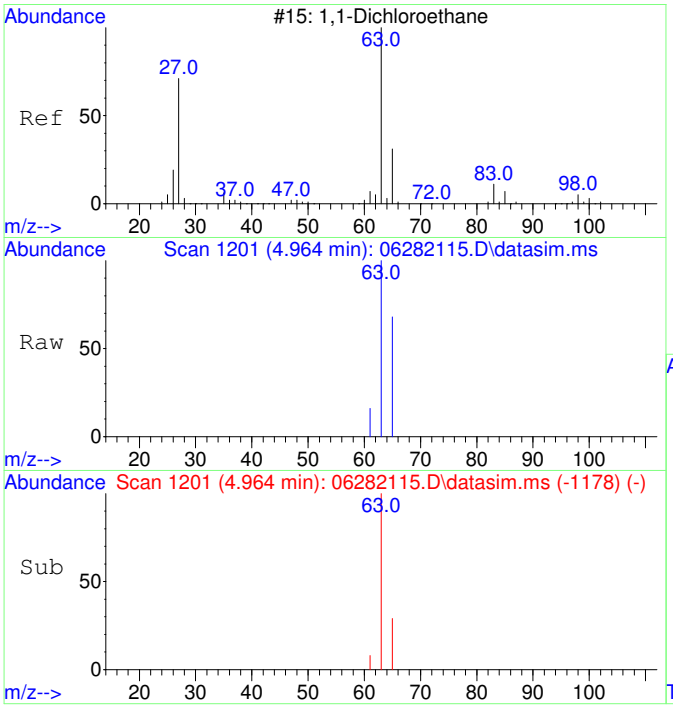


#3
trans-1,2-Dichloroethene
Concen: 289.36 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 61 Resp: 1630

Ion	Ratio	Lower	Upper
61	100		
63	33.9	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

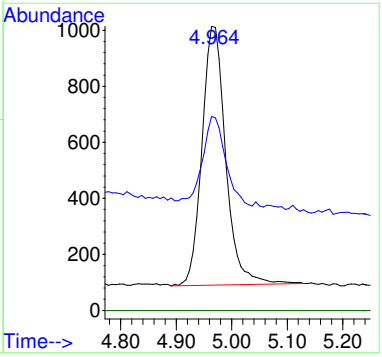


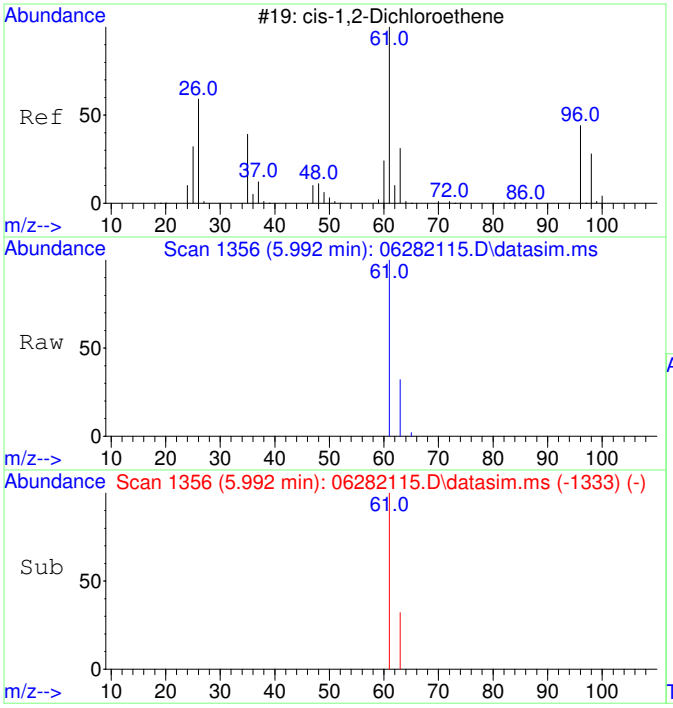


#4
1,1-Dichloroethane
Concen: 354.78 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 63 Resp: 2741

Ion	Ratio	Lower	Upper
63	100		
65	35.1	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

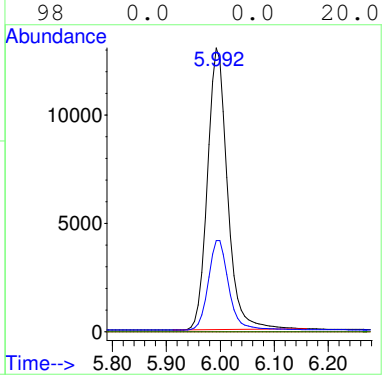


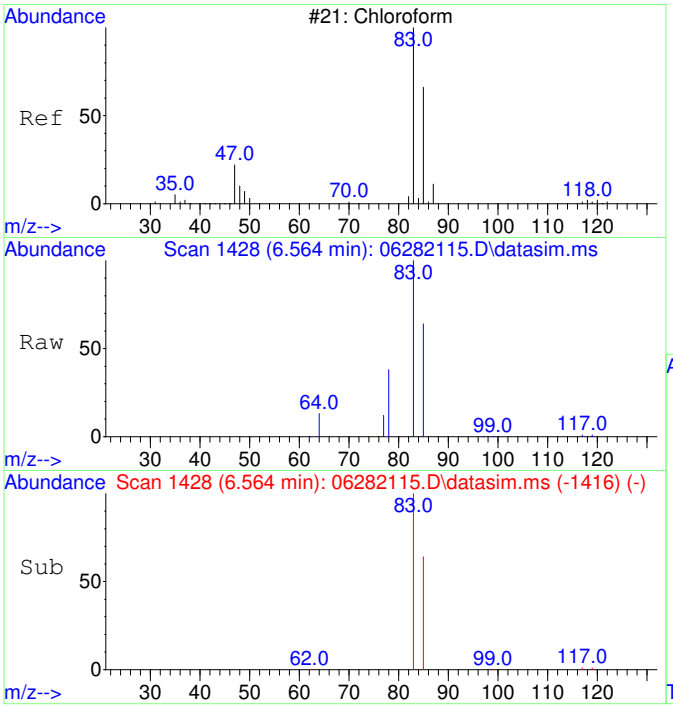


#5
cis-1,2-Dichloroethene
Concen: 4524.27 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 61 Resp: 33492

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

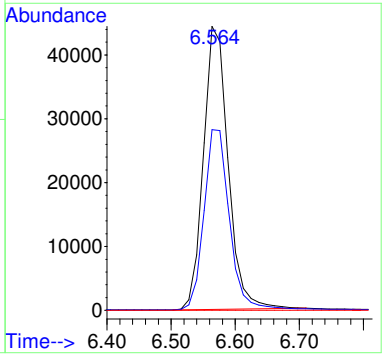


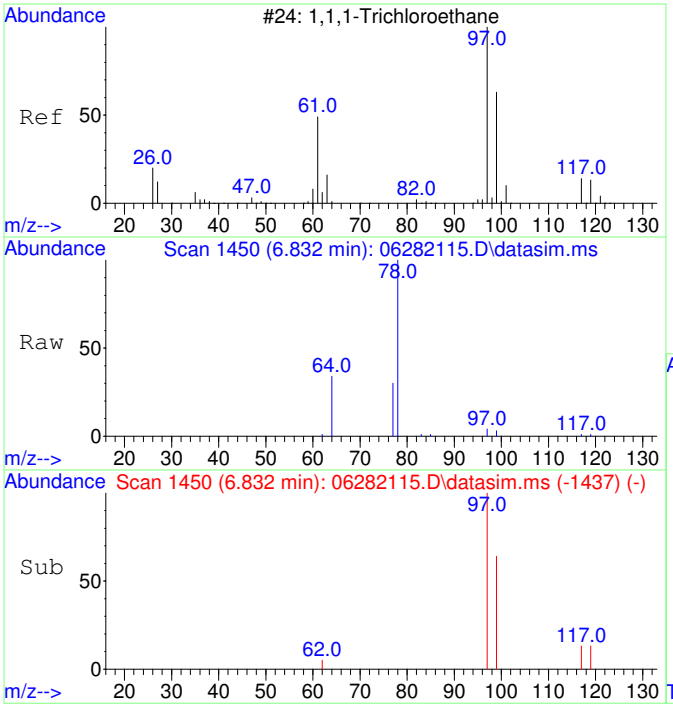


#6
Chloroform
Concen: 13644.71 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 83 Resp: 118877

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.5	94.5
87	0.0	0.0	20.0

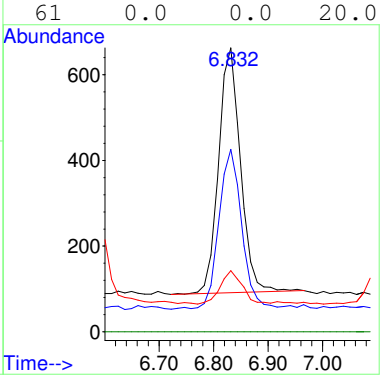


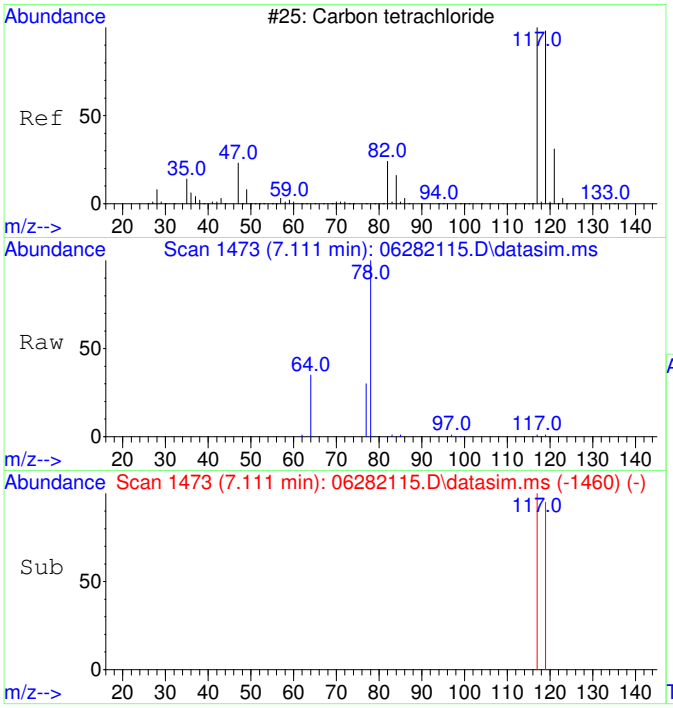


#7
1,1,1-Trichloroethane
Concen: 197.13 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 97 Resp: 1598

Ion	Ratio	Lower	Upper
97	100		
99	68.5	34.4	94.4
117	13.5	0.0	42.8
61	0.0	0.0	20.0

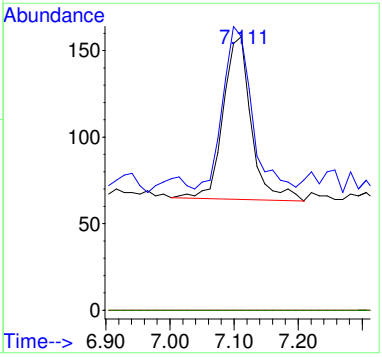


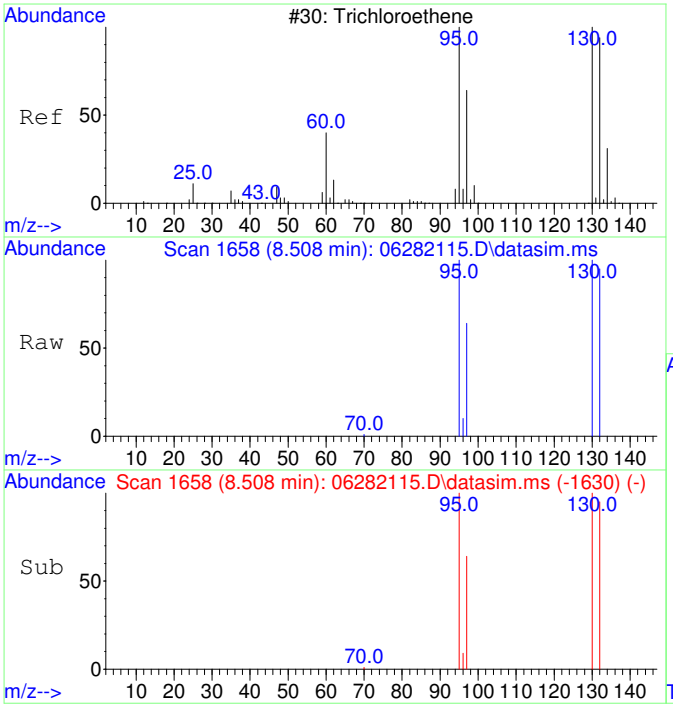


#8
Carbon tetrachloride
Concen: 40.21 ug/L
RT: 7.111 min Scan# 1473
Delta R.T. 0.012 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:117 Resp: 284

Ion	Ratio	Lower	Upper
117	100		
119	100.7	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

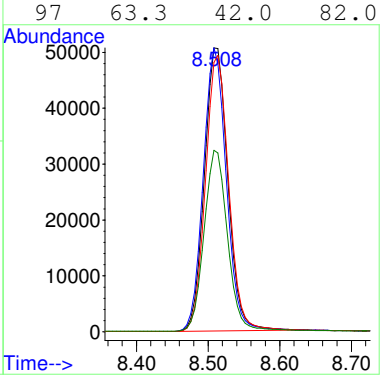


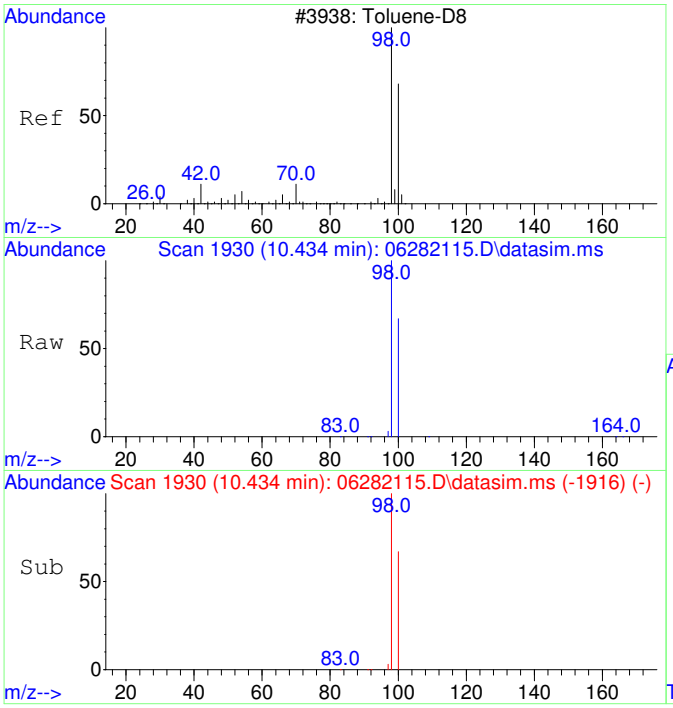


#11
Trichloroethene
Concen: 17676.94 ug/L
RT: 8.508 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:130 Resp: 115215

Ion	Ratio	Lower	Upper
130	100		
95	98.2	65.8	125.8
132	96.0	75.8	115.8
97	63.3	42.0	82.0

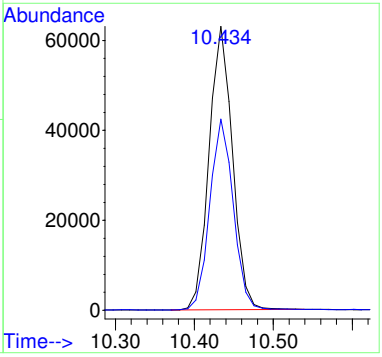


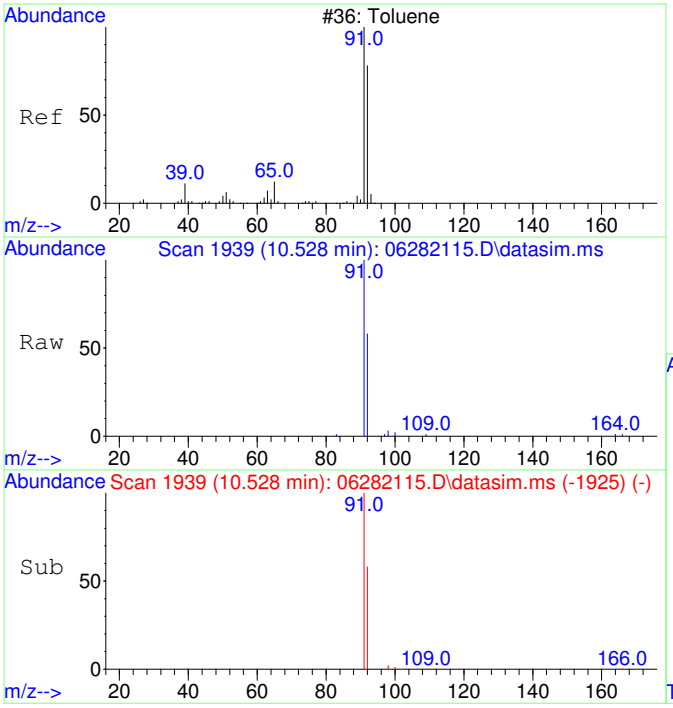


#12
Toluene-d8
Concen: 5044.80 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 98 Resp: 129860

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.3	97.3

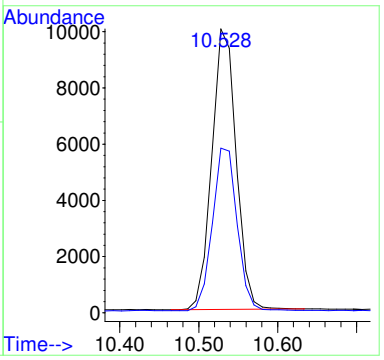


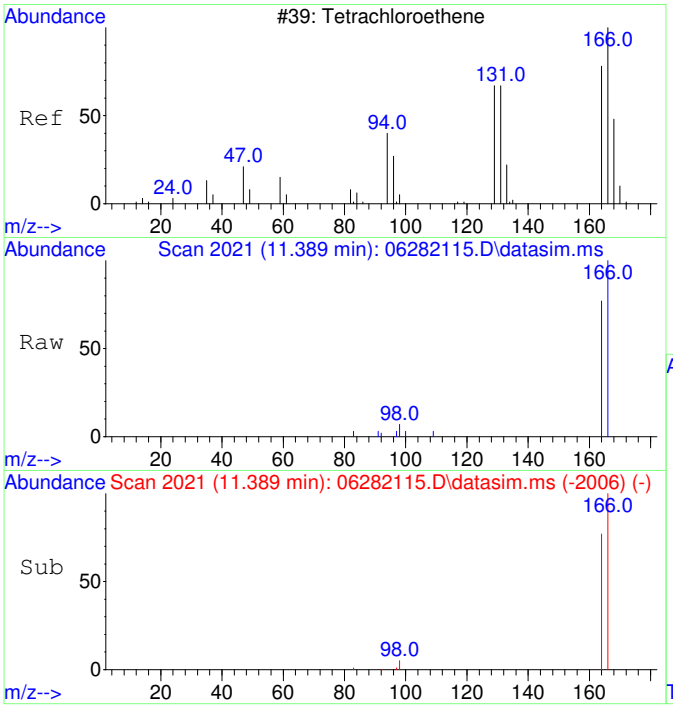


#13
Toluene
Concen: 635.67 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 91 Resp: 21299

Ion	Ratio	Lower	Upper
91	100		
92	58.7	30.2	90.2

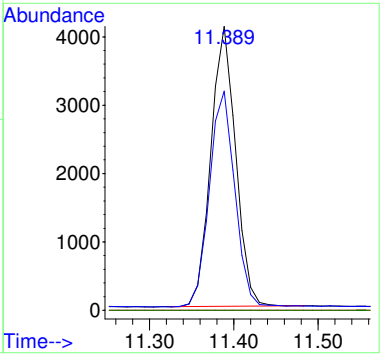


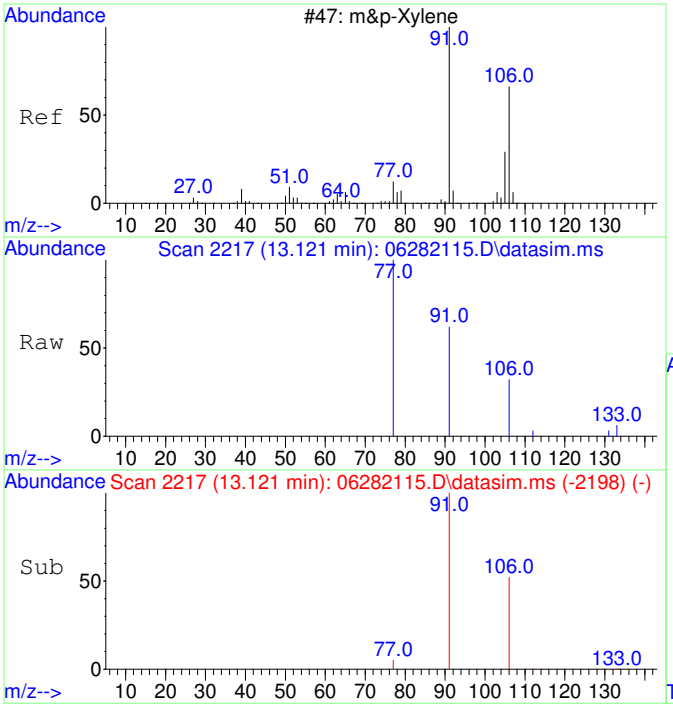


#15
Tetrachloroethene
Concen: 977.68 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:166 Resp: 8380

Ion	Ratio	Lower	Upper
166	100		
164	78.6	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

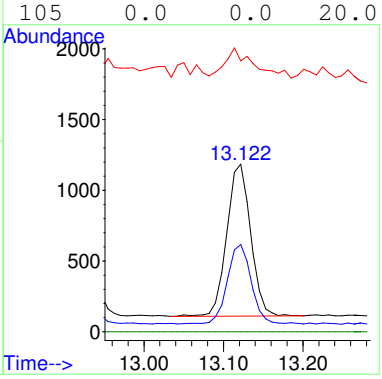


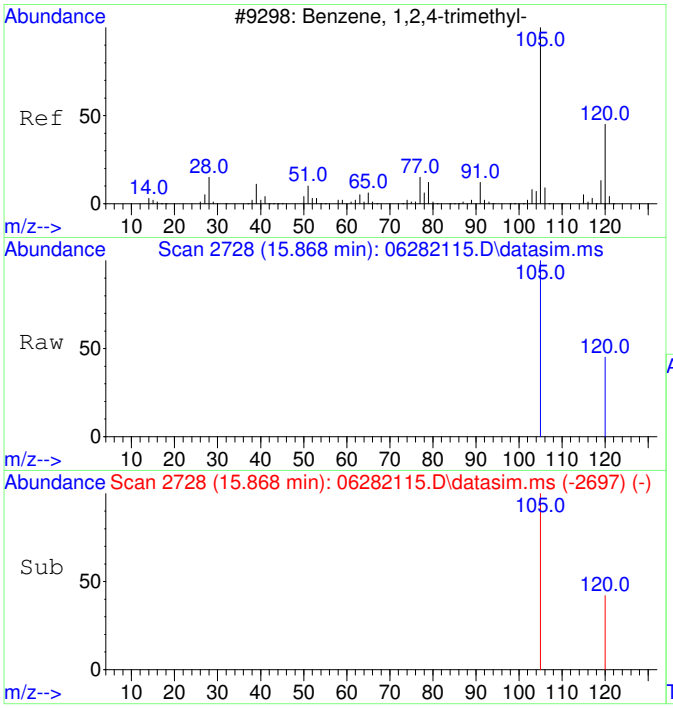


#19
m&p-Xylene
Concen: 66.43 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 91 Resp: 2252

Ion	Ratio	Lower	Upper
91	100		
106	52.0	21.4	81.4
77	23.2	0.0	42.7
105	0.0	0.0	20.0

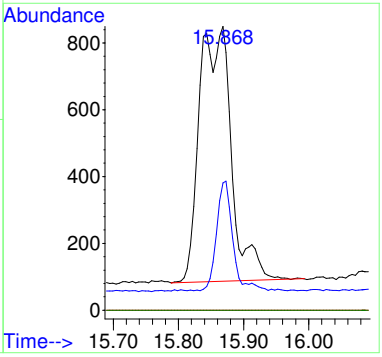


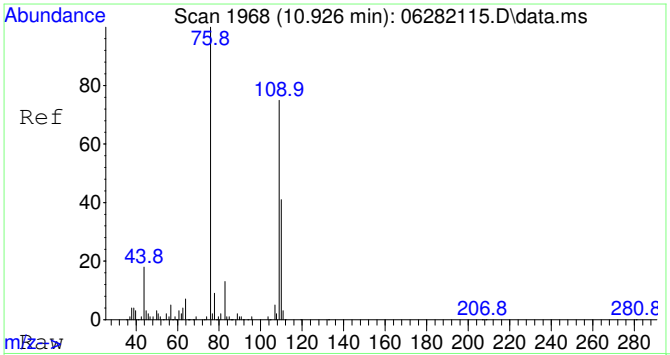


#23
1,2,4-Trimethylbenzene
Concen: 58.08 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:105 Resp: 2605

Ion	Ratio	Lower	Upper
105	100		
120	21.8	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

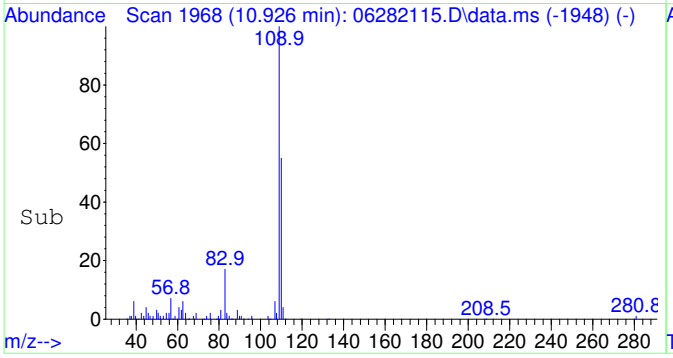


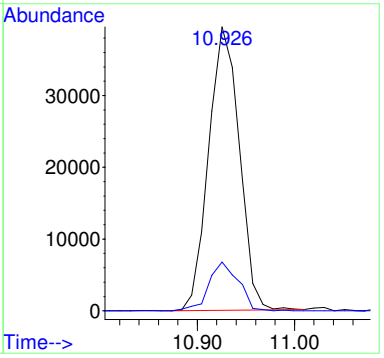


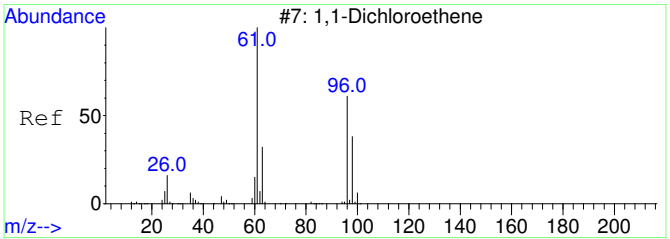
#25
2-Fluorotoluene SCAN
Concen: 4675.43 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:109 Resp: 86481

Ion	Ratio	Lower	Upper
109	100		
83	16.6	0.0	44.5



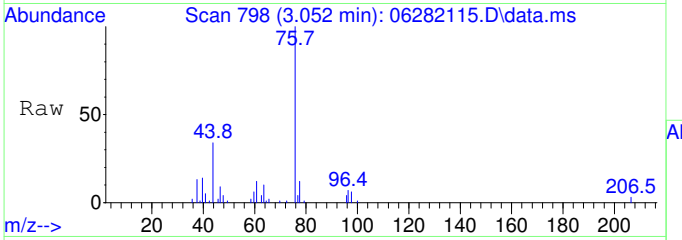


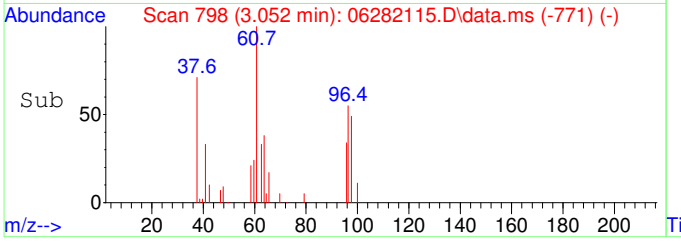


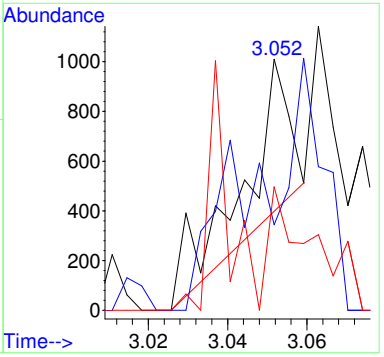
#26
1,1-Dichloroethene SCAN
Concen: 131.05 ug/L
RT: 3.052 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

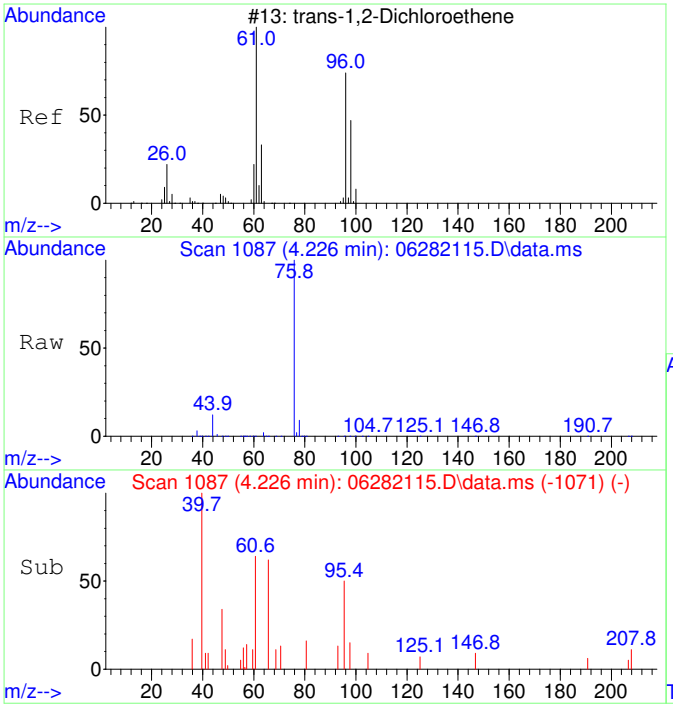
Tgt Ion: 61 Resp: 512

Ion	Ratio	Lower	Upper
61	100		
96	77.3	33.0	93.0
98	76.6	12.5	72.5#





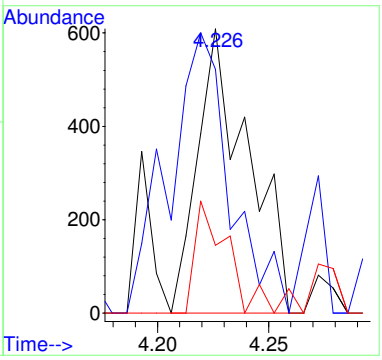


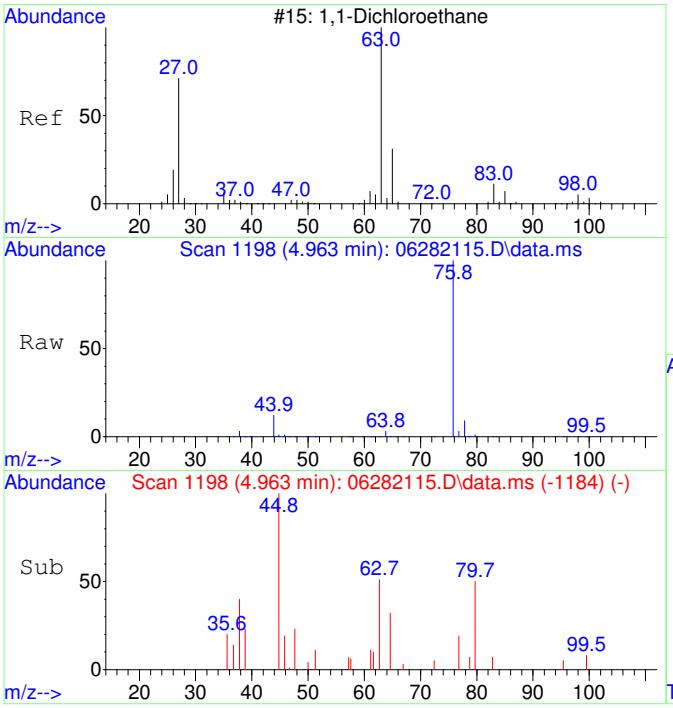


#27
trans-1,2-Dichloroethene SCAN
Concen: 228.32 ug/L
RT: 4.226 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 61 Resp: 965

Ion	Ratio	Lower	Upper
61	100		
96	119.5	49.3	109.3#
98	25.2	24.0	84.0

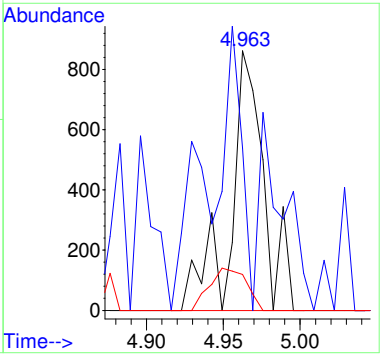


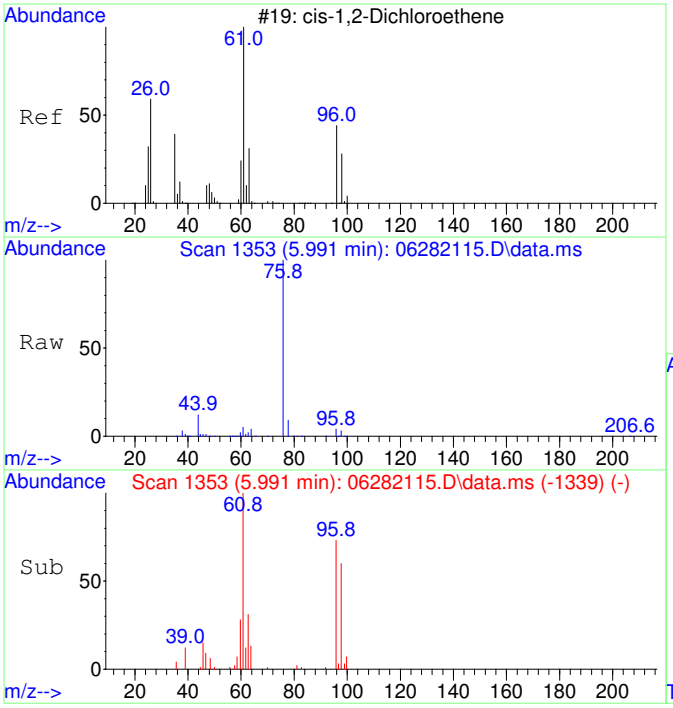


#28
1,1-Dichloroethane SCAN
Concen: 227.74 ug/L
RT: 4.963 min Scan# 1198
Delta R.T. -0.007 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 63 Resp: 1290

Ion	Ratio	Lower	Upper
63	100		
65	40.2	0.0	57.3
83	18.1	0.0	46.2

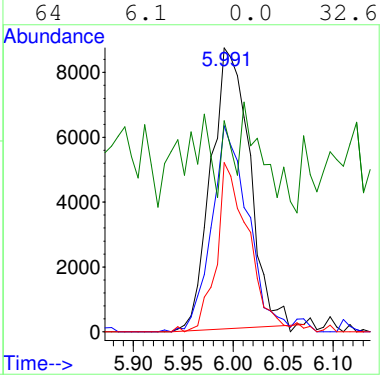


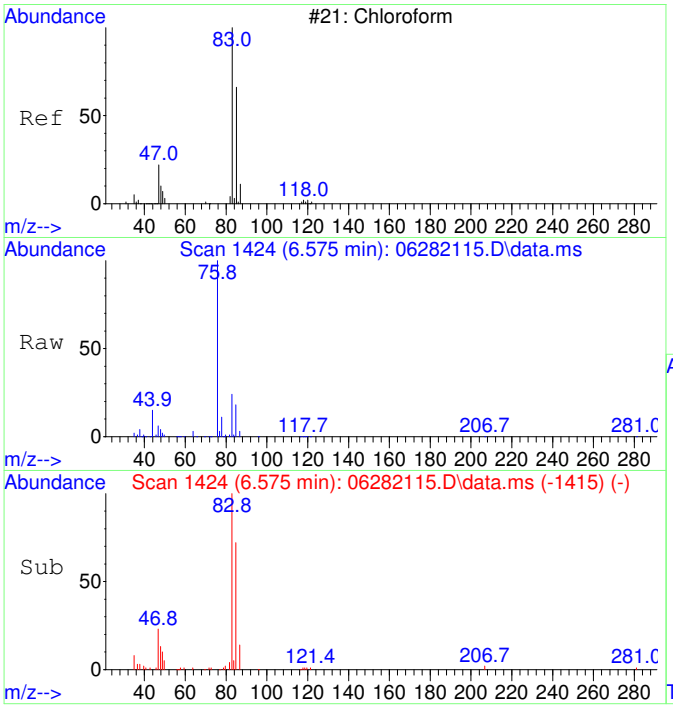


#29
cis-1,2-Dichloroethene SCAN
Concen: 4071.22 ug/L
RT: 5.991 min Scan# 1353
Delta R.T. -0.007 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 61 Resp: 23265

Ion	Ratio	Lower	Upper
61	100		
96	67.2	36.9	96.9
98	50.5	12.1	72.1
64	6.1	0.0	32.6

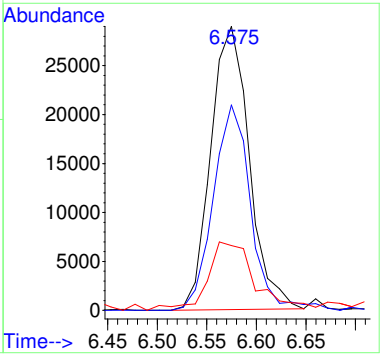


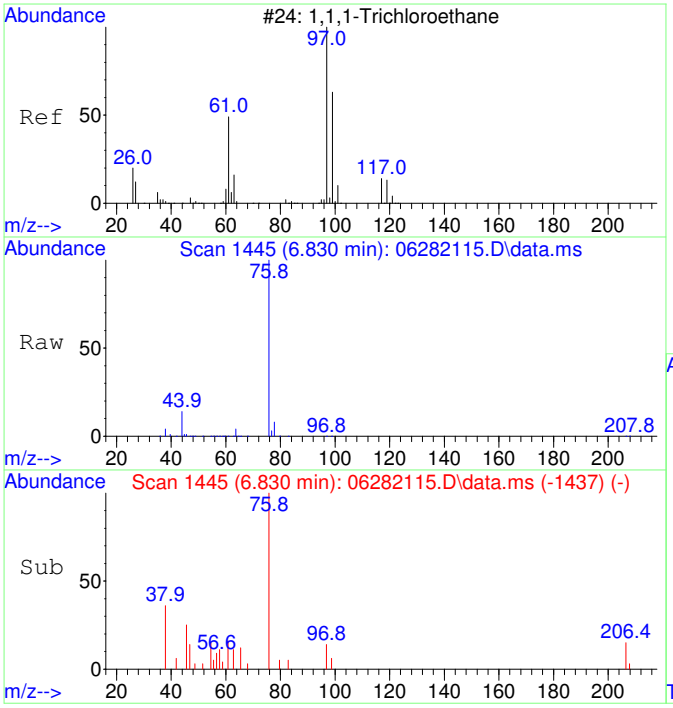


#30
Chloroform SCAN
Concen: 12960.76 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 83 Resp: 78328

Ion	Ratio	Lower	Upper
83	100		
85	70.6	27.1	87.1
47	27.6	7.5	67.5

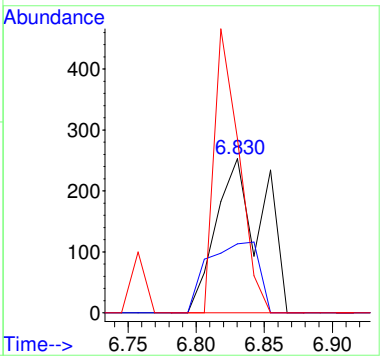


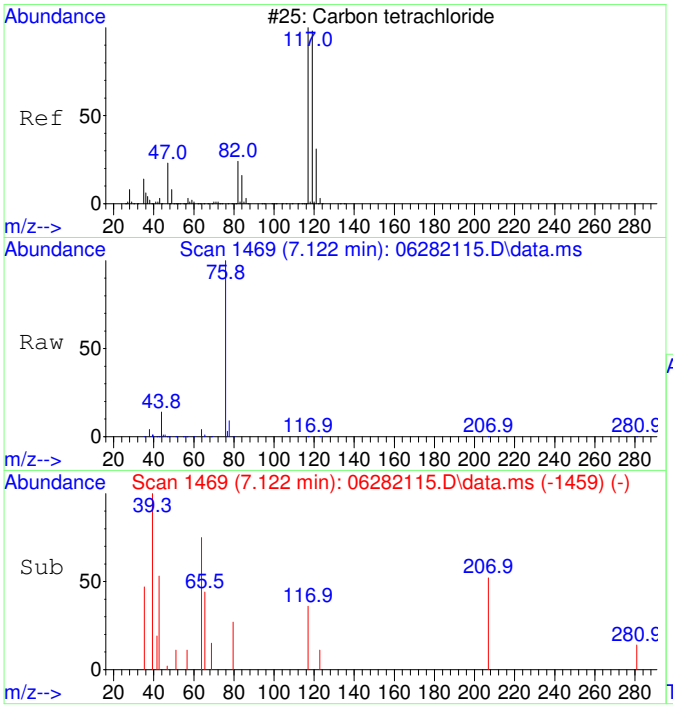


#31
1,1,1-Trichloroethane SCAN
Concen: 107.14 ug/L
RT: 6.830 min Scan# 1445
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 97 Resp: 605

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	98.0	11.4	71.4#

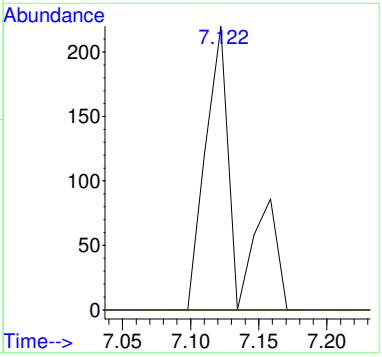


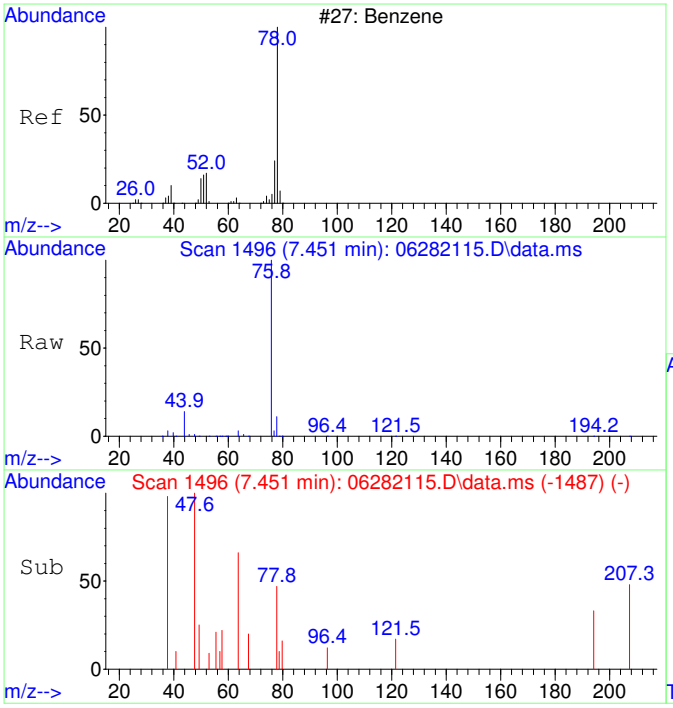


#32
Carbon tetrachloride SCAN
Concen: 75.76 ug/L
RT: 7.122 min Scan# 1469
Delta R.T. 0.024 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:117 Resp: 353

Ion	Ratio	Lower	Upper
117	100		
119	0.0	68.0	128.0#
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

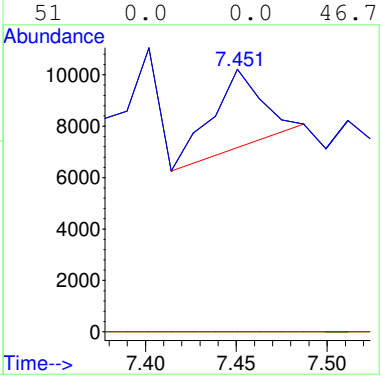


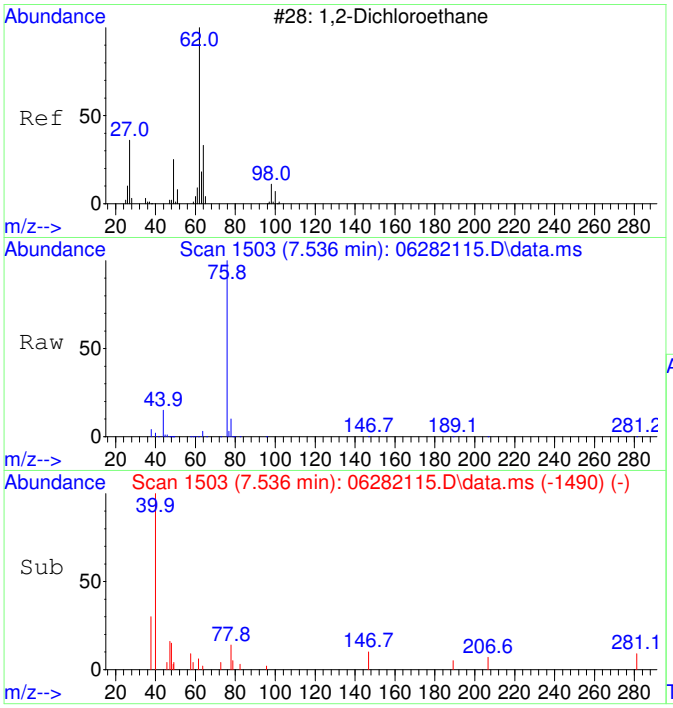


#33
Benzene SCAN
Concen: 449.02 ug/L
RT: 7.451 min Scan# 1496
Delta R.T. 0.012 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 78 Resp: 6366

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

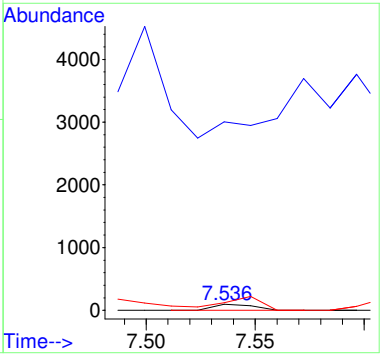


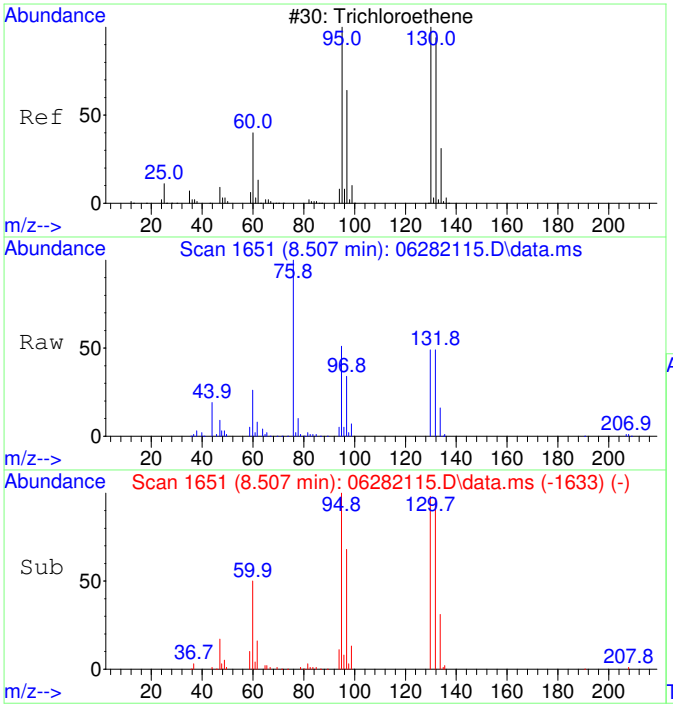


#34
1,2-Dichloroethane SCAN
Concen: 27.97 ug/L
RT: 7.536 min Scan# 1503
Delta R.T. 0.061 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 62 Resp: 125

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	153.6	4.1	64.1#

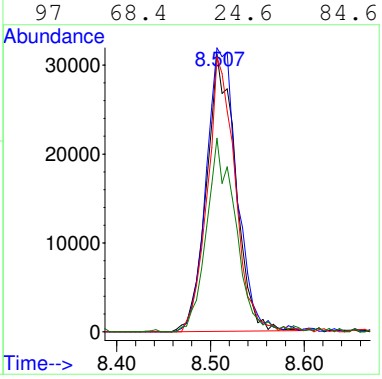


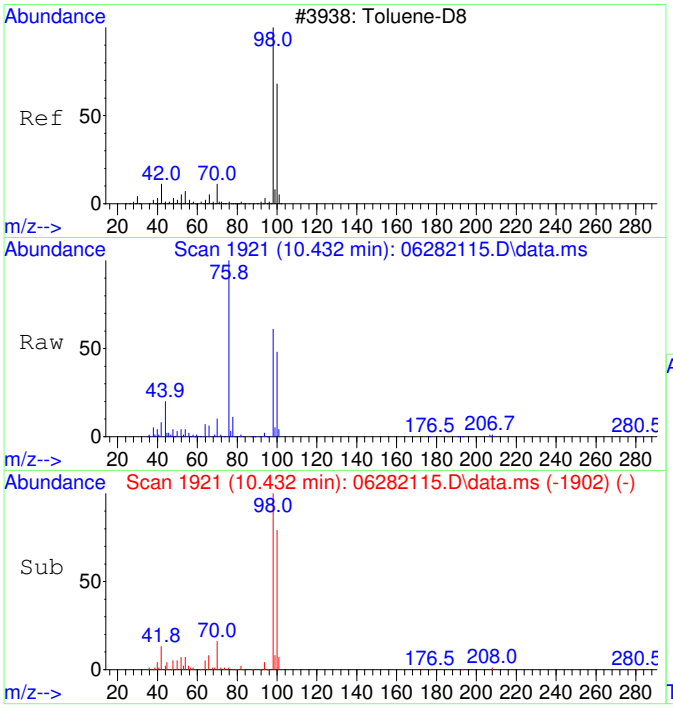


#35
Trichloroethene SCAN
Concen: 18640.57 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:130 Resp: 67361

Ion	Ratio	Lower	Upper
130	100		
95	106.4	60.0	120.0
132	93.1	54.3	114.3
97	68.4	24.6	84.6

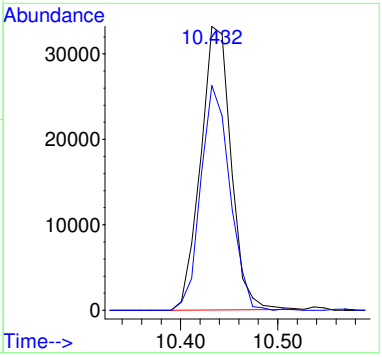


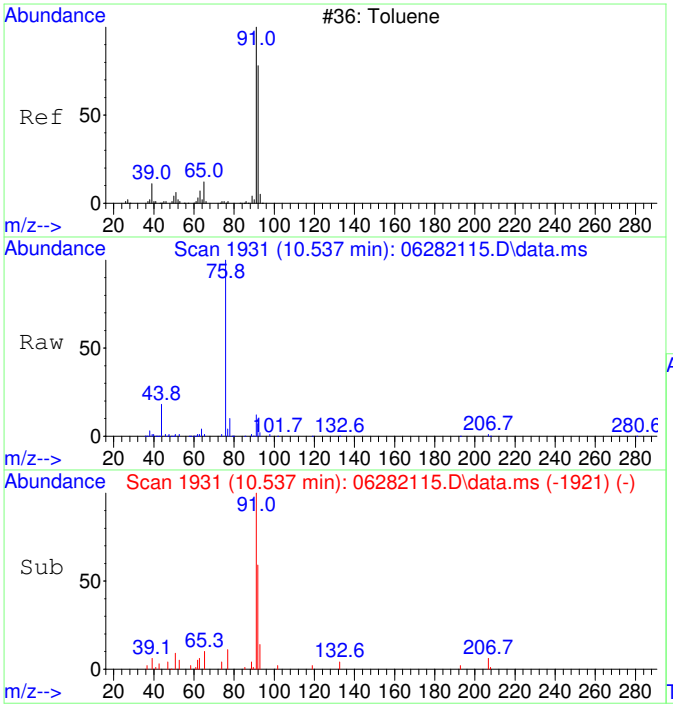


#36
Toluene-d8 SCAN
Concen: 4506.22 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 98 Resp: 72293

Ion	Ratio	Lower	Upper
98	100		
100	75.8	36.1	96.1

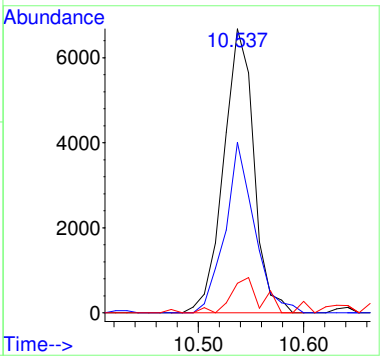


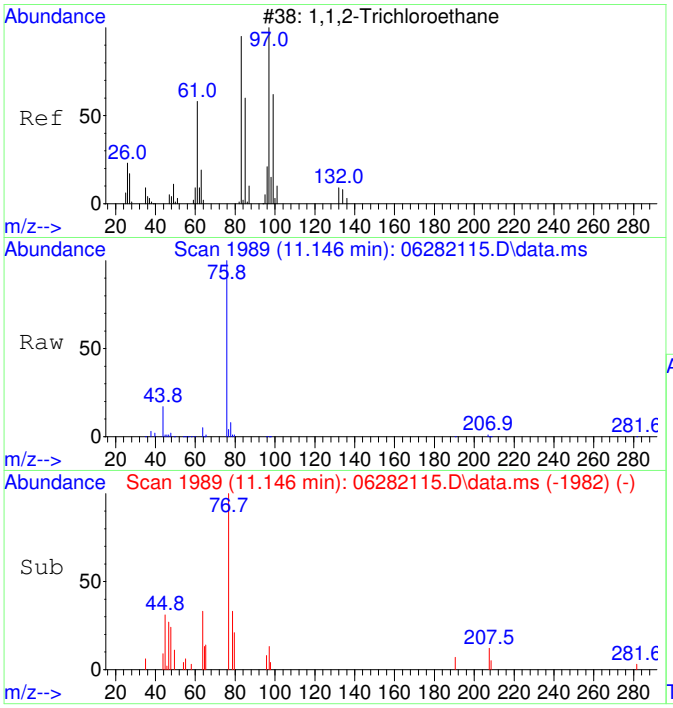


#37
Toluene SCAN
Concen: 642.37 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 91 Resp: 13338

Ion	Ratio	Lower	Upper
91	100		
92	58.0	26.5	86.5
65	11.9	0.0	40.6

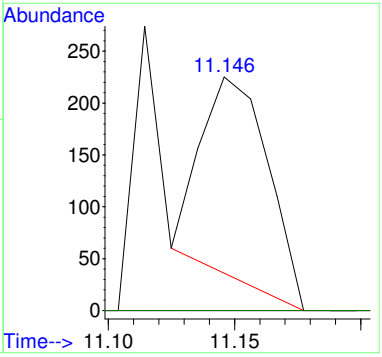


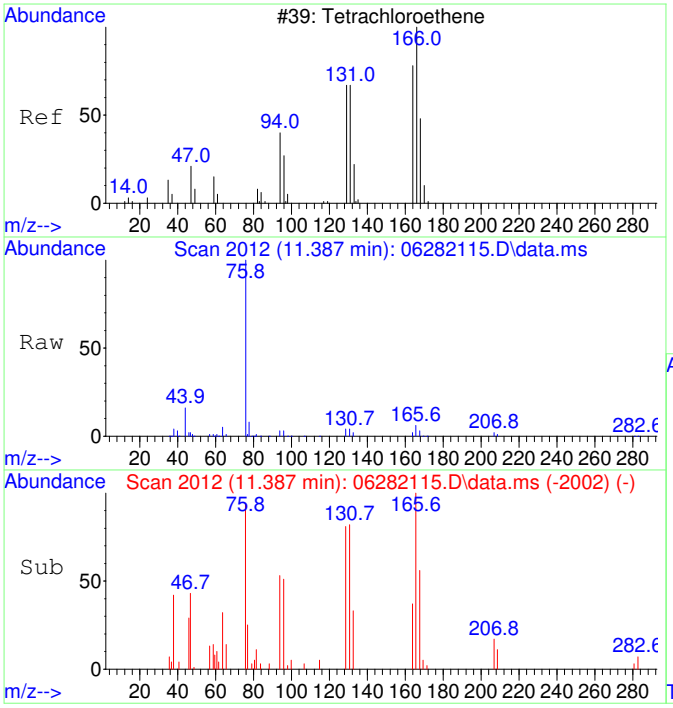


#38
1,1,2-Trichloroethane SCAN
Concen: 69.34 ug/L
RT: 11.146 min Scan# 1989
Delta R.T. -0.031 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 97 Resp: 343

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

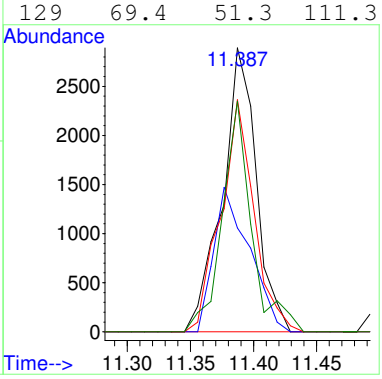


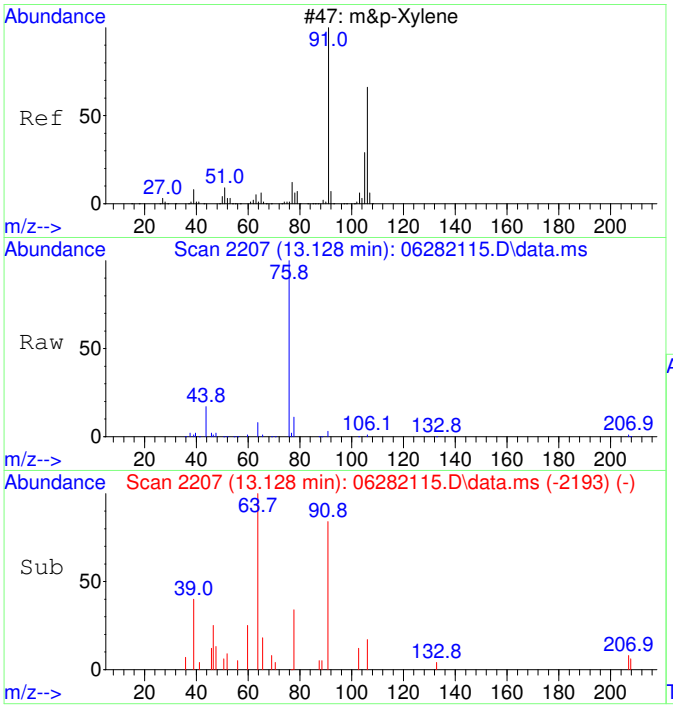


#39
Tetrachloroethene SCAN
Concen: 1084.97 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:166 Resp: 5425

Ion	Ratio	Lower	Upper
166	100		
164	53.4	53.9	113.9#
131	80.0	45.6	105.6
129	69.4	51.3	111.3

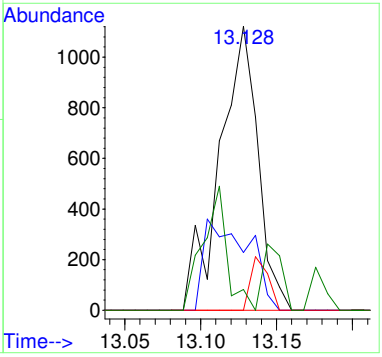


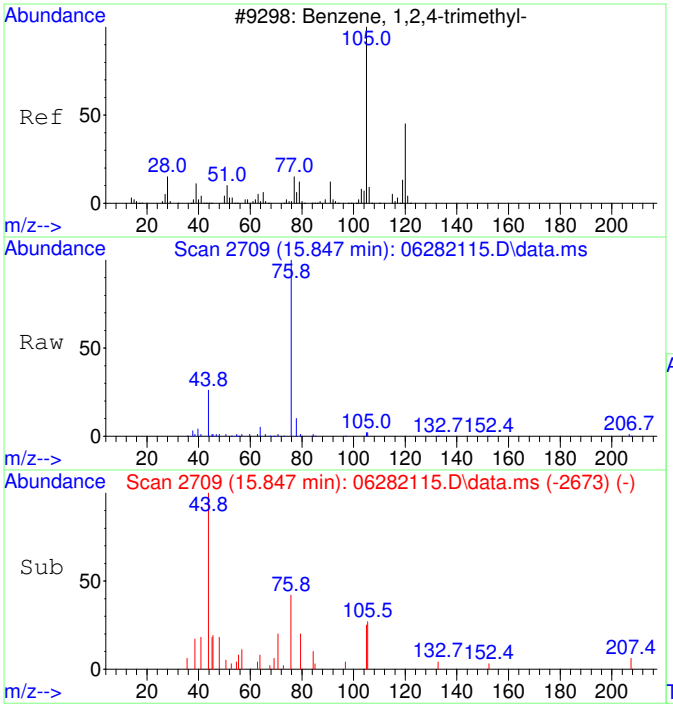


#43
m&p-Xylene SCAN
Concen: 47.47 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion: 91 Resp: 1960

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.2	81.2#
105	8.7	0.0	51.6
51	11.6	0.0	41.7

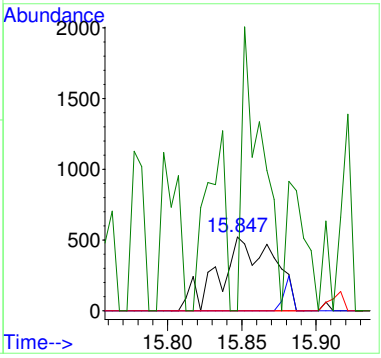




#47
1,2,4-Trimethylbenzene SCAN
Concen: 51.54 ug/L
RT: 15.847 min Scan# 2709
Delta R.T. -0.020 min
Lab File: 06282115.D
Acq: 28 Jun 2021 15:06

Tgt Ion:105 Resp: 1331

Ion	Ratio	Lower	Upper
105	100		
120	0.0	15.6	75.6#
119	0.0	0.0	38.2
77	138.9	0.0	44.0#



2106037-08

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282116.D
Acq On : 28 Jun 2021 15:32
InstName : AG5975C
Operator : TD
Sample : 2106037-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 29 06:06:43 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

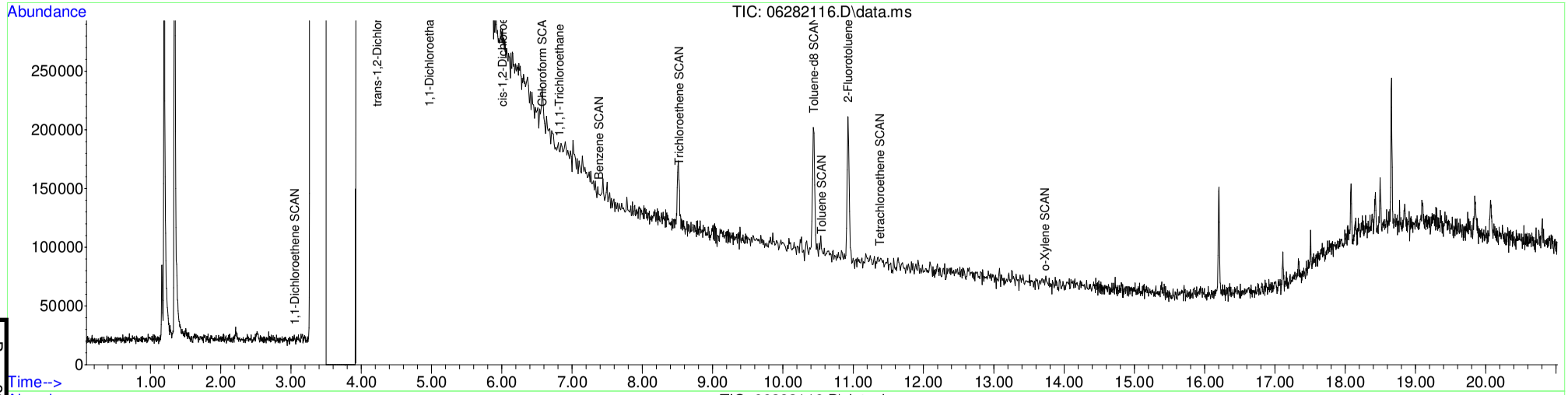
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	170734	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	146674	5015.31 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.31%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	836	112.42 ug/L #	99
3] trans-1,2-Dichloroethene	4.221	61	460	71.88 ug/L #	96
4] 1,1-Dichloroethane	4.964	63	818	93.19 ug/L #	70
5] cis-1,2-Dichloroethene	5.992	61	8960	1065.35 ug/L #	98
6] Chloroform	6.564	83	31927	3225.52 ug/L #	100
7] 1,1,1-Trichloroethane	6.832	97	494	53.64 ug/L #	90
8] Carbon tetrachloride	7.099	117	283	35.27 ug/L #	92
11] Trichloroethene	8.514	130	31823	4297.49 ug/L	99
13] Toluene	10.528	91	13502	354.69 ug/L	98
15] Tetrachloroethene	11.389	166	2175	223.35 ug/L #	97
19] m&p-Xylene	13.121	91	1091	28.33 ug/L #	87
25) 2-Fluorotoluene SCAN	10.926	109	99394	4729.73 ug/L	99
26) 1,1-Dichloroethene SCAN	3.055	61	459	103.41 ug/L #	68
27) trans-1,2-Dichloroethe...	4.233	61	323	67.27 ug/L #	16
28) 1,1-Dichloroethane SCAN	4.969	63	231	35.90 ug/L #	9
29) cis-1,2-Dichloroethene...	6.011	61	5759	887.04 ug/L #	24
30) Chloroform SCAN	6.575	83	21584	3143.55 ug/L #	50
31) 1,1,1-Trichloroethane ...	6.818	97	458	71.39 ug/L #	28
33) Benzene SCAN	7.378	78	9819	609.60 ug/L #	90
35) Trichloroethene SCAN	8.518	130	20205	4921.36 ug/L	88
36) Toluene-d8 SCAN	10.432	98	88130	4835.21 ug/L	100
37) Toluene SCAN	10.548	91	8388	355.57 ug/L	86
39) Tetrachloroethene SCAN	11.377	166	1159	204.02 ug/L #	30
44) o-Xylene SCAN	13.724	91	645	24.99 ug/L #	44

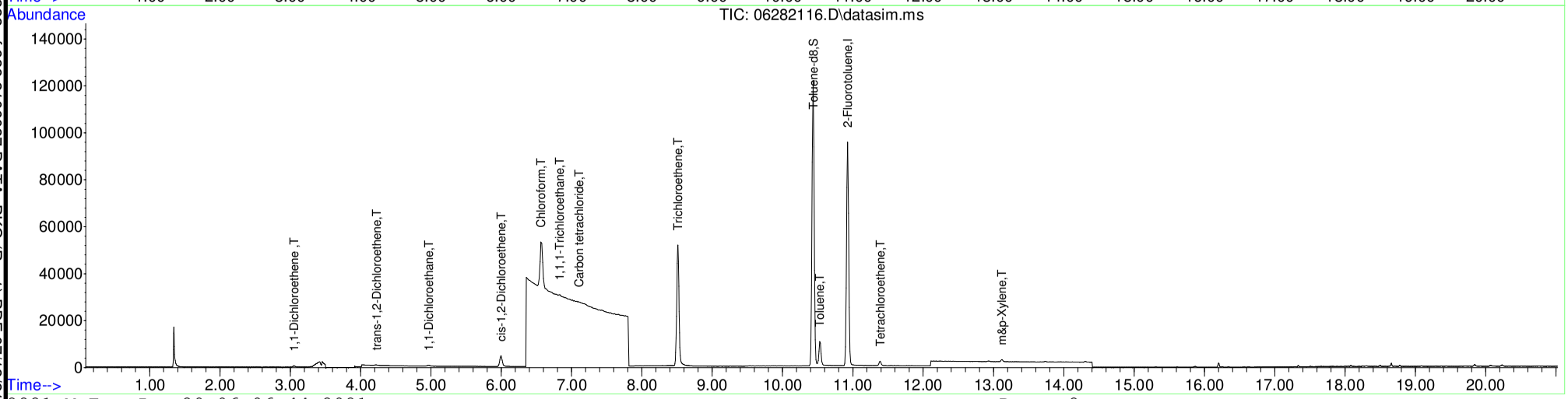
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282116.D
Acq On : 28 Jun 2021 15:32
InstName : AG5975C
Operator : TD
Sample : 2106037-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 29 06:06:43 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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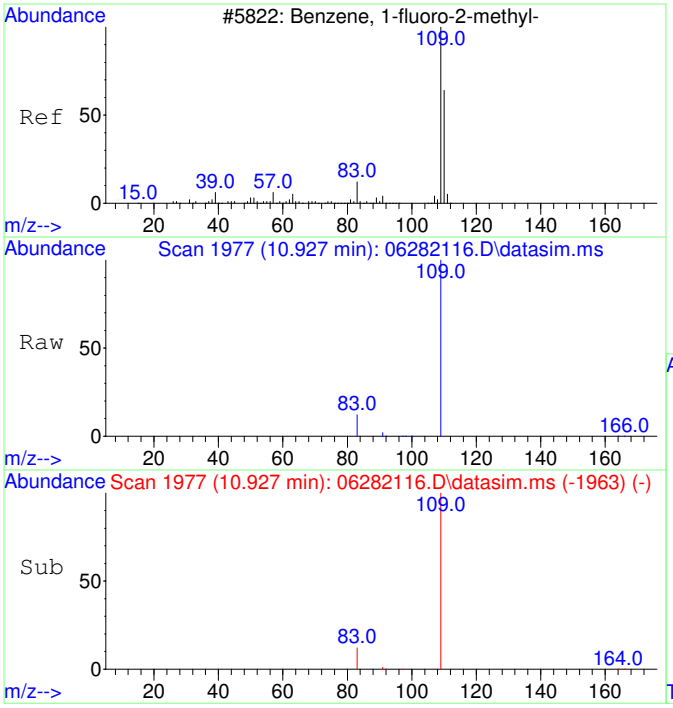
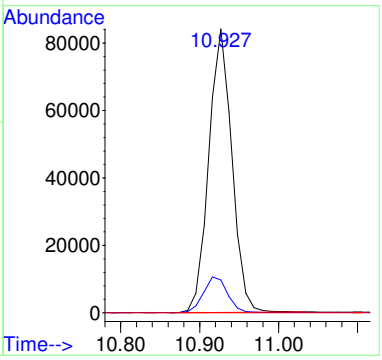
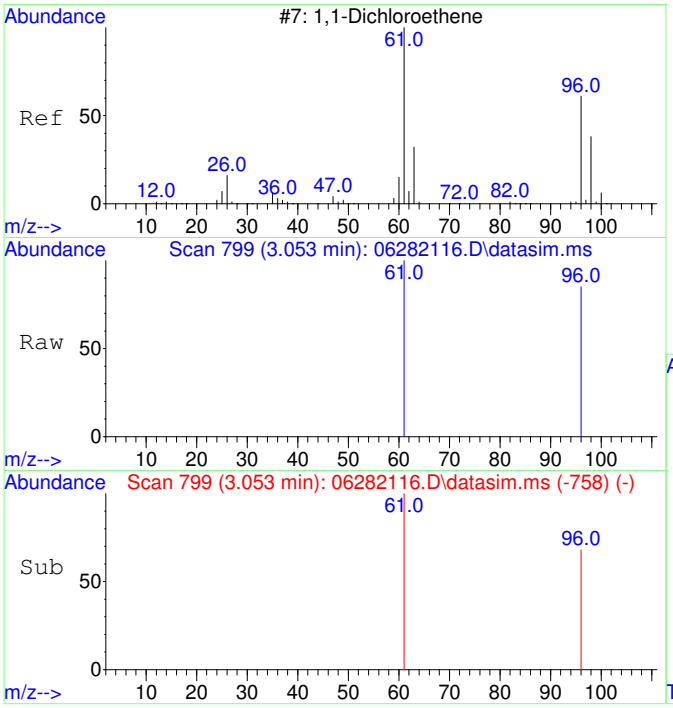


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion:109 Resp: 170734

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

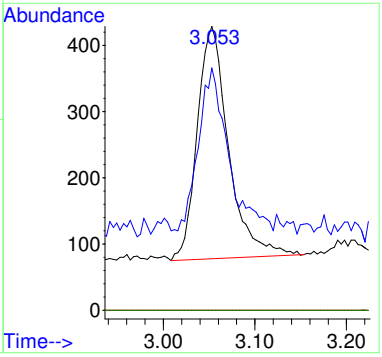


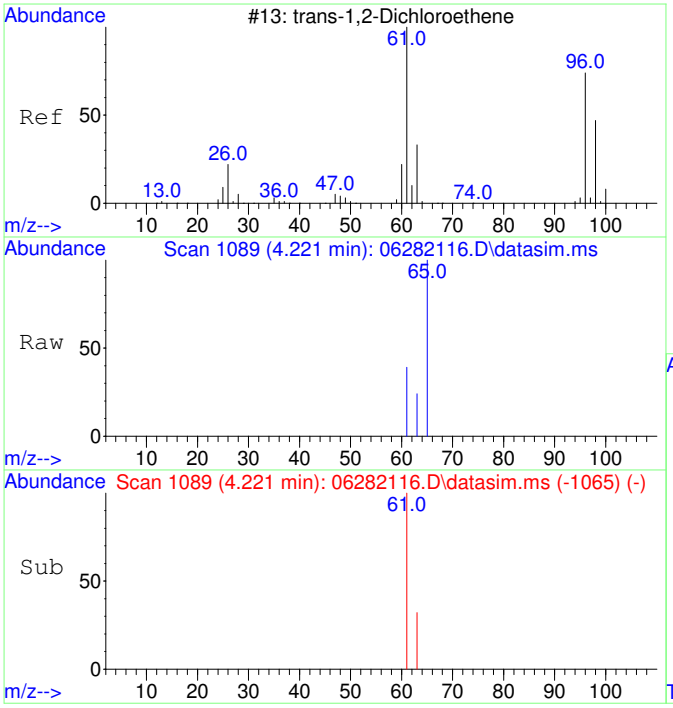


#2
1,1-Dichloroethene
Concen: 112.42 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 61 Resp: 836

Ion	Ratio	Lower	Upper
61	100		
96	65.8	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

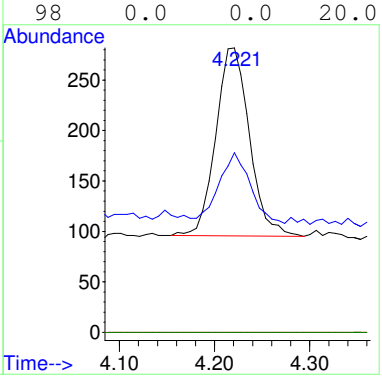


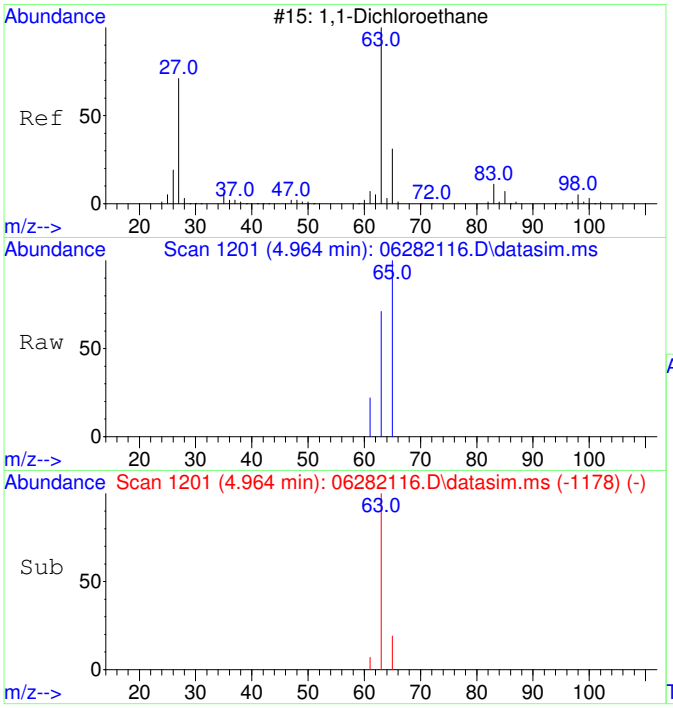


#3
trans-1,2-Dichloroethene
Concen: 71.88 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 61 Resp: 460

Ion	Ratio	Lower	Upper
61	100		
63	34.8	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

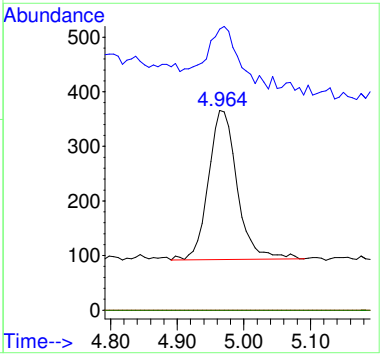


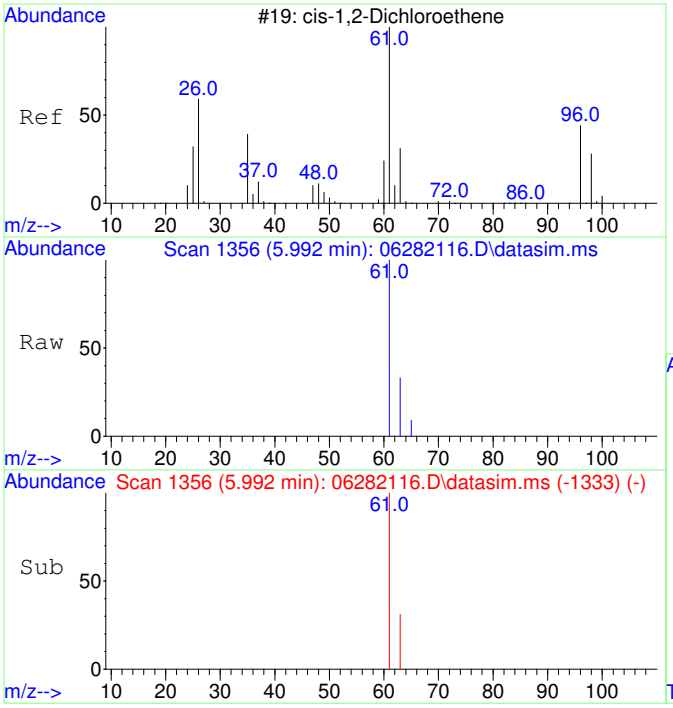


#4
1,1-Dichloroethane
Concen: 93.19 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. 0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 63 Resp: 818

Ion	Ratio	Lower	Upper
63	100		
65	48.0	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

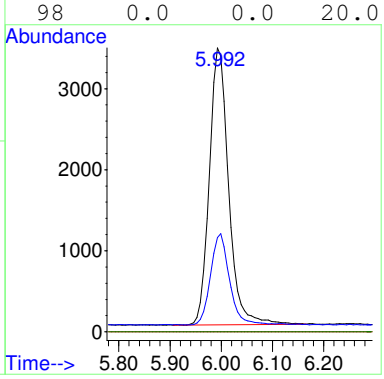


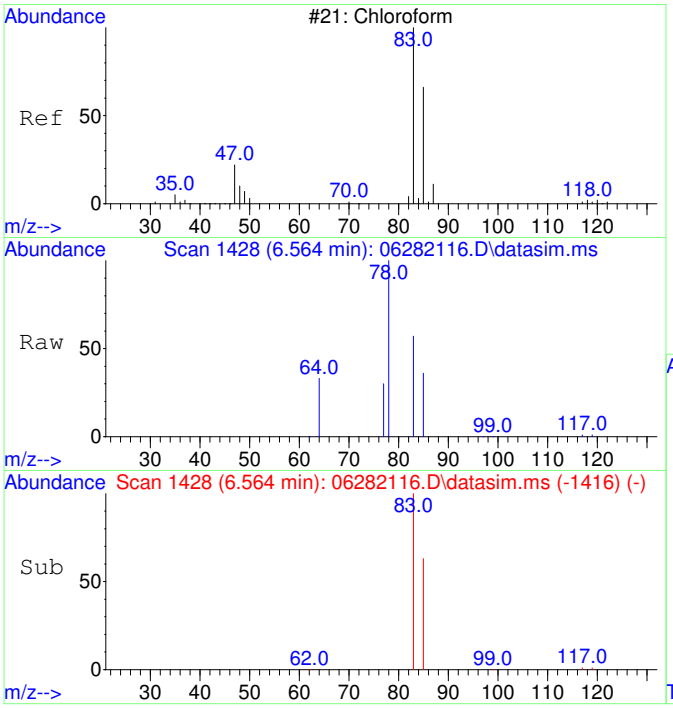


#5
cis-1,2-Dichloroethene
Concen: 1065.35 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 61 Resp: 8960

Ion	Ratio	Lower	Upper
61	100		
63	31.5	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

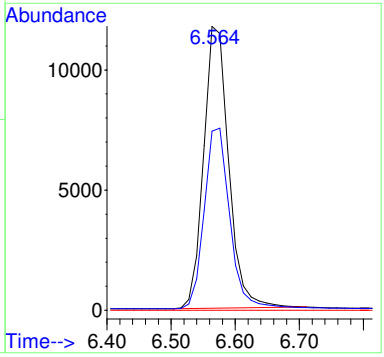


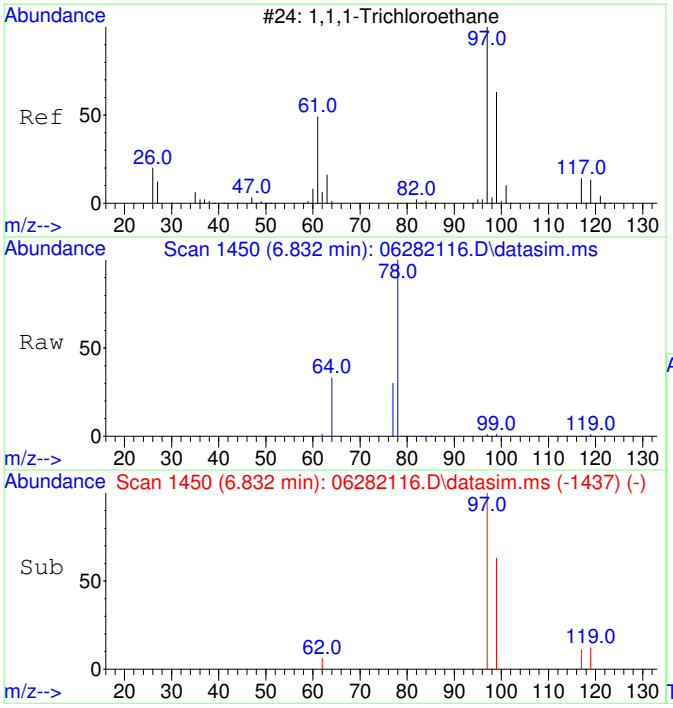


#6
Chloroform
Concen: 3225.52 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 83 Resp: 31927

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.5	94.5
87	0.0	0.0	20.0

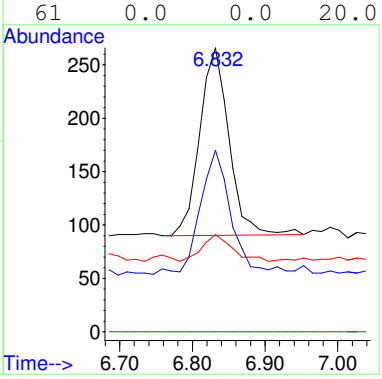


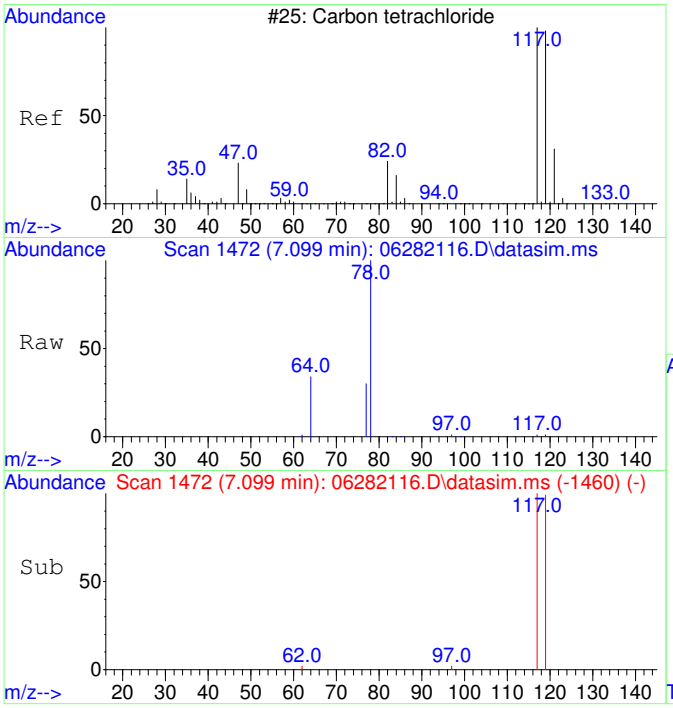


#7
1,1,1-Trichloroethane
Concen: 53.64 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 97 Resp: 494

Ion	Ratio	Lower	Upper
97	100		
99	73.3	34.4	94.4
117	14.6	0.0	42.8
61	0.0	0.0	20.0

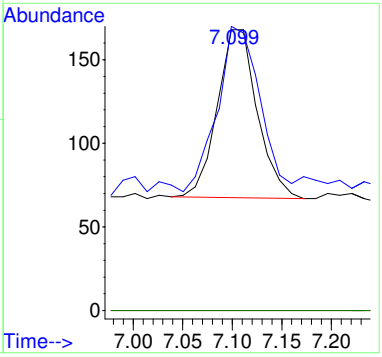


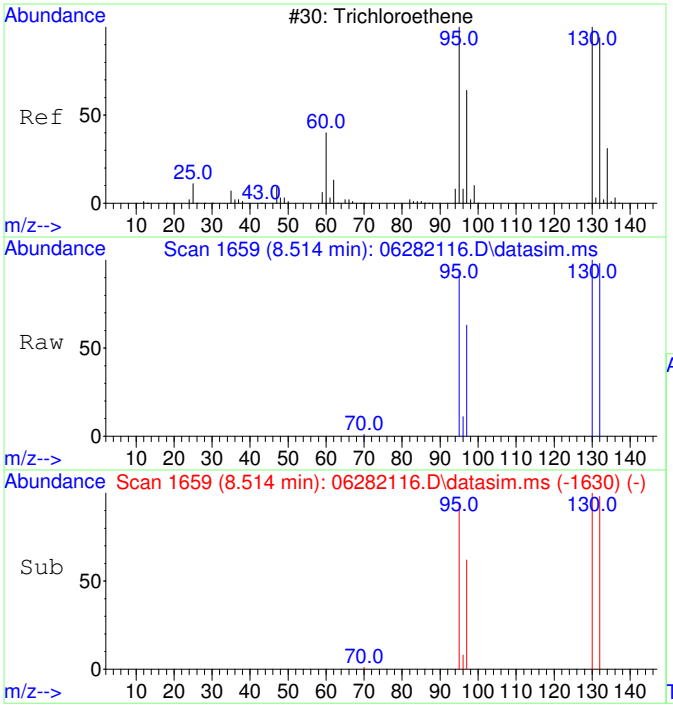


#8
Carbon tetrachloride
Concen: 35.27 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion:117 Resp: 283

Ion	Ratio	Lower	Upper
117	100		
119	103.9	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

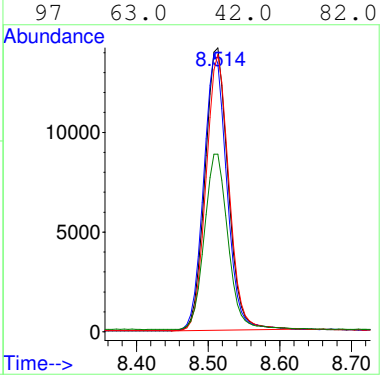


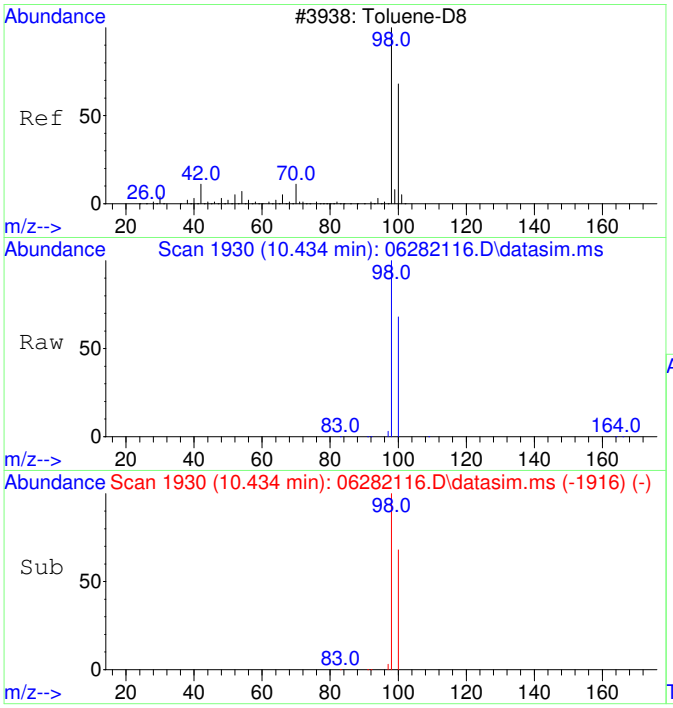


#11
Trichloroethene
Concen: 4297.49 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion:130 Resp: 31823

Ion	Ratio	Lower	Upper
130	100		
95	97.5	65.8	125.8
132	96.1	75.8	115.8
97	63.0	42.0	82.0

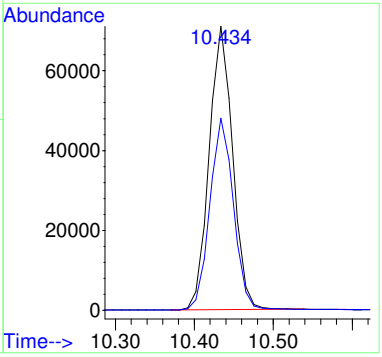


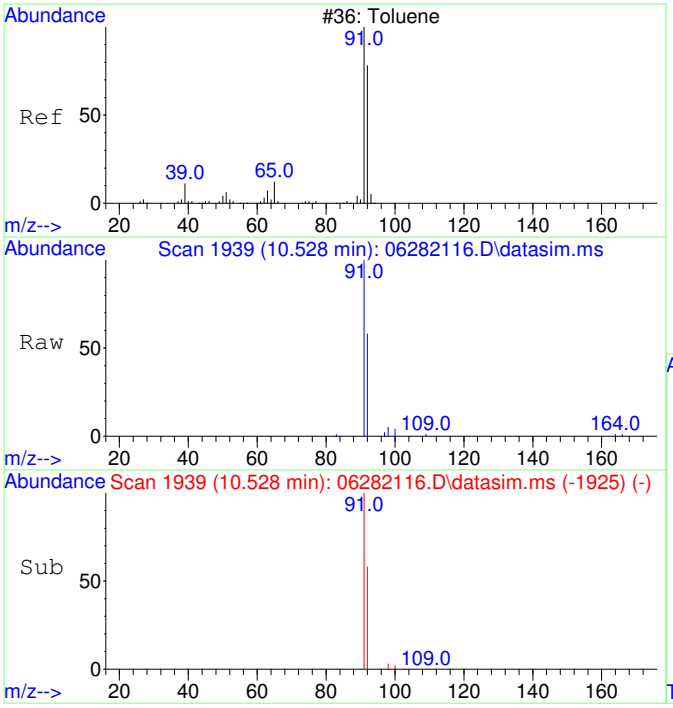


#12
Toluene-d8
Concen: 5015.31 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 98 Resp: 146674

Ion	Ratio	Lower	Upper
98	100		
100	67.4	37.3	97.3

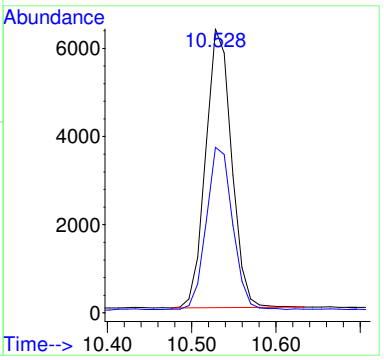


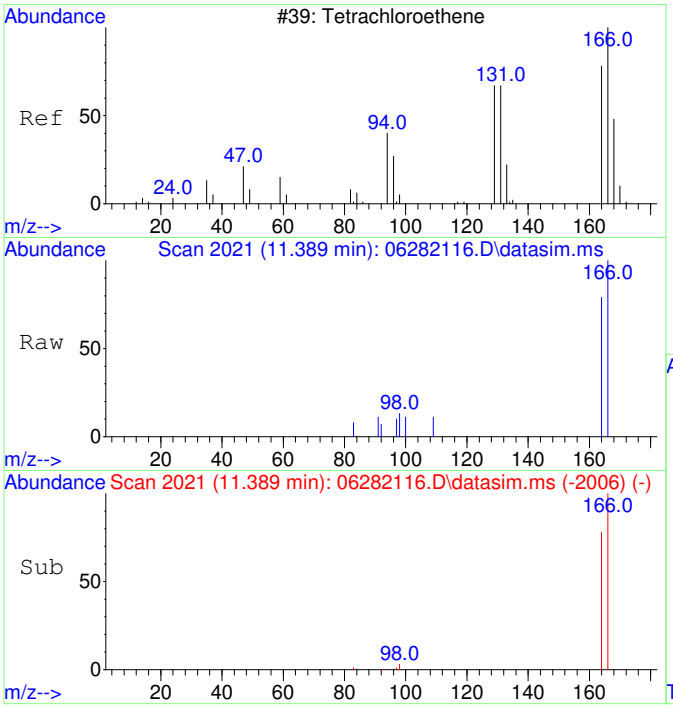


#13
Toluene
Concen: 354.69 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 91 Resp: 13502

Ion	Ratio	Lower	Upper
91	100		
92	58.9	30.2	90.2

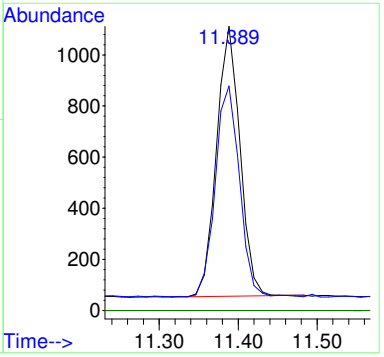


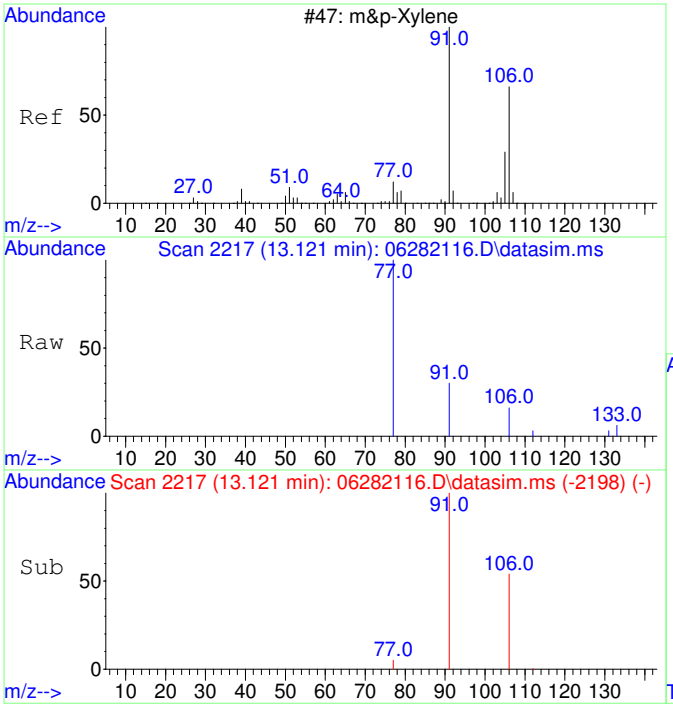


#15
Tetrachloroethene
Concen: 223.35 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion:166 Resp: 2175

Ion	Ratio	Lower	Upper
166	100		
164	80.4	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

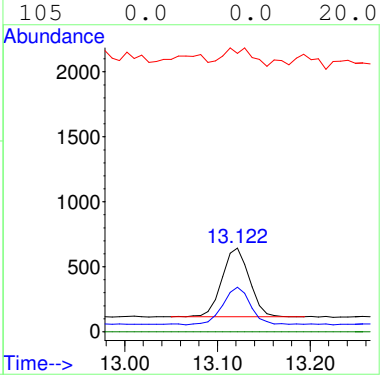


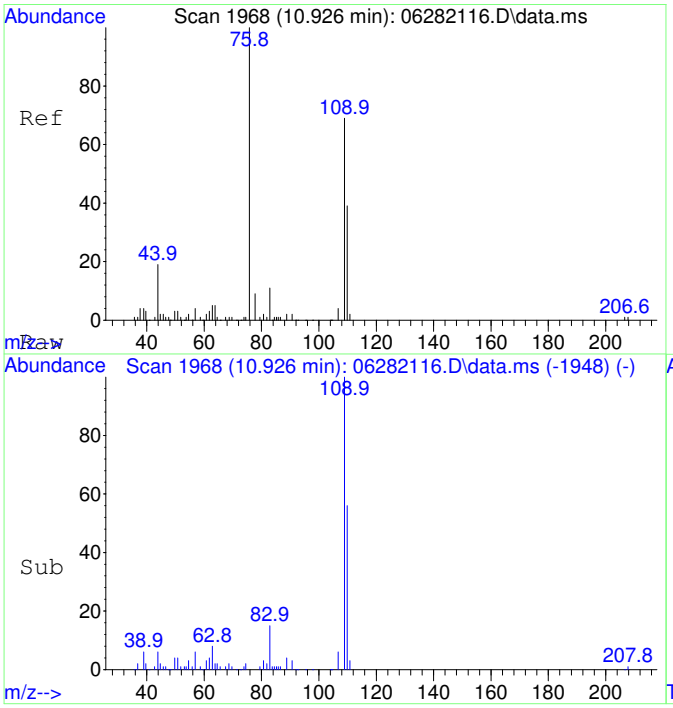


#19
m&p-Xylene
Concen: 28.33 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 91 Resp: 1091

Ion	Ratio	Lower	Upper
91	100		
106	55.5	21.4	81.4
77	28.3	0.0	42.7
105	0.0	0.0	20.0

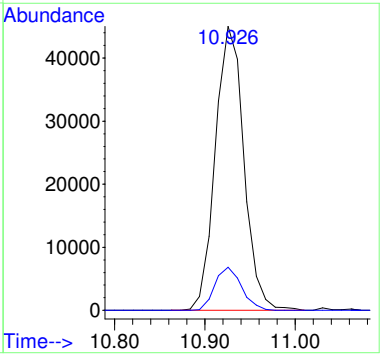


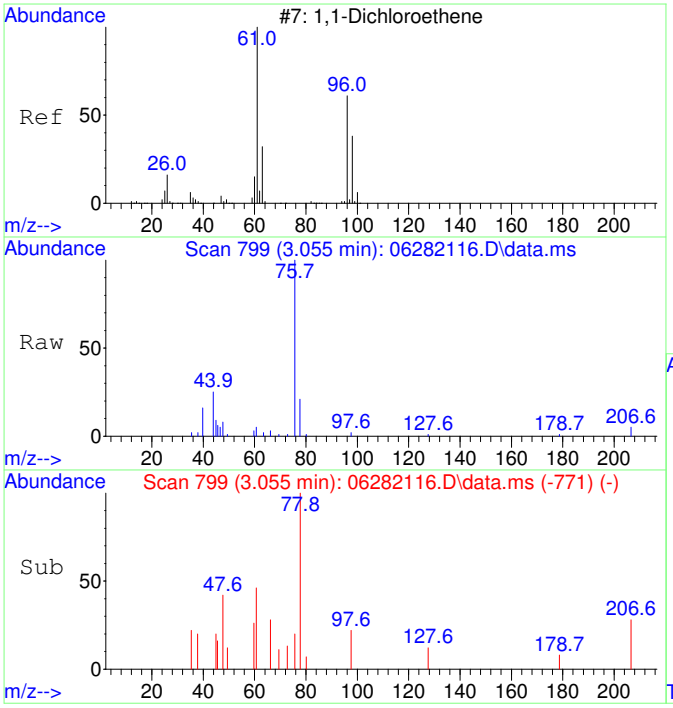


#25
2-Fluorotoluene SCAN
Concen: 4729.73 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion:109 Resp: 99394

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	44.5

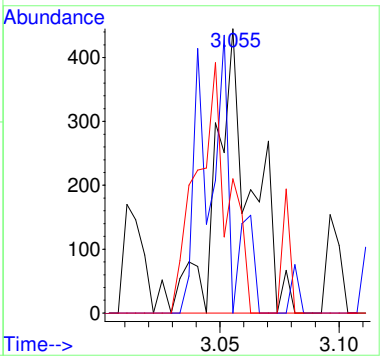


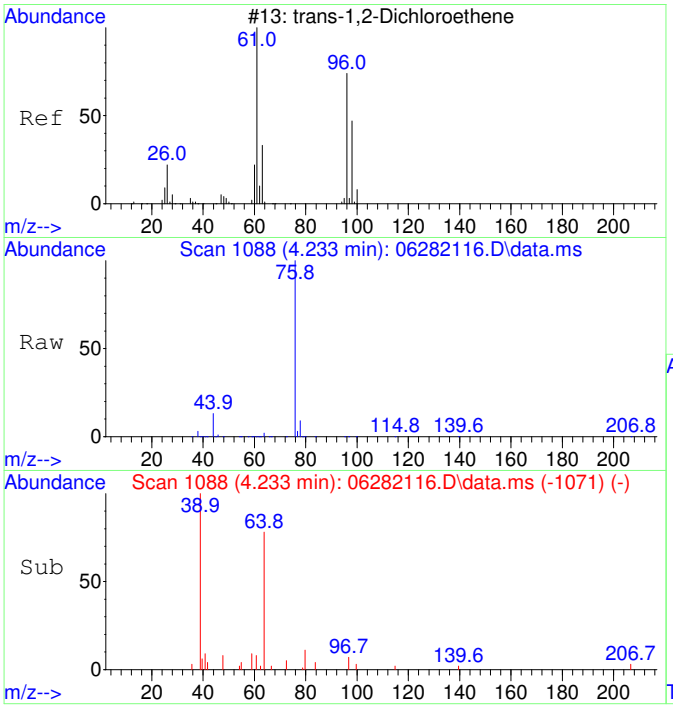


#26
1,1-Dichloroethene SCAN
Concen: 103.41 ug/L
RT: 3.055 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 61 Resp: 459

Ion	Ratio	Lower	Upper
61	100		
96	75.2	33.0	93.0
98	78.2	12.5	72.5#

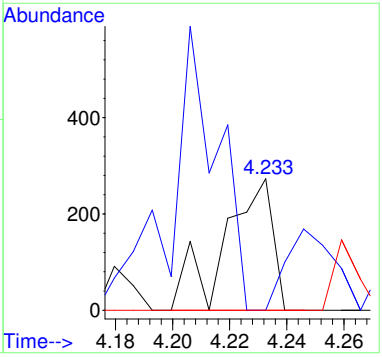


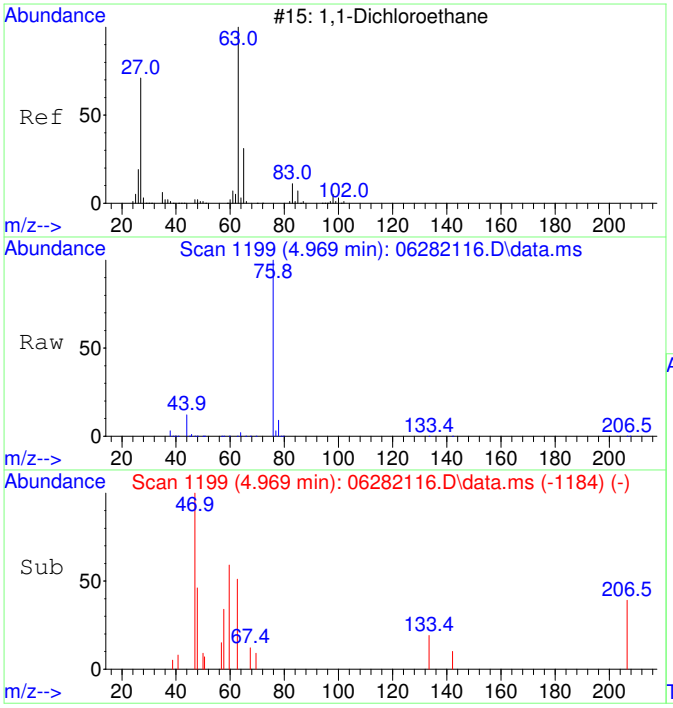


#27
trans-1,2-Dichloroethene SCAN
Concen: 67.27 ug/L
RT: 4.233 min Scan# 1088
Delta R.T. 0.013 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 61 Resp: 323

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	109.3#
98	0.0	24.0	84.0#

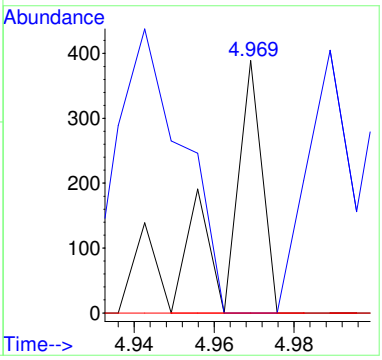


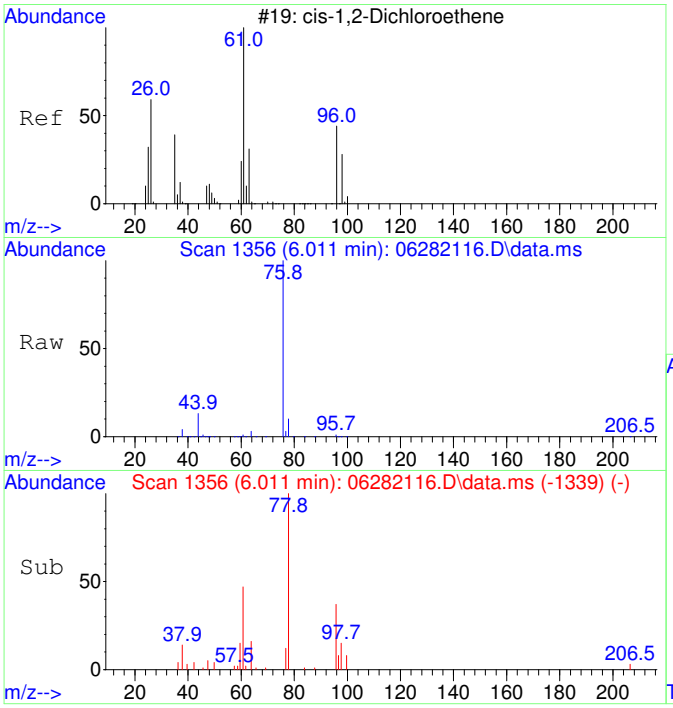


#28
1,1-Dichloroethane SCAN
Concen: 35.90 ug/L
RT: 4.969 min Scan# 1199
Delta R.T. 0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 63 Resp: 231

Ion	Ratio	Lower	Upper
63	100		
65	91.3	0.0	57.3#
83	0.0	0.0	46.2

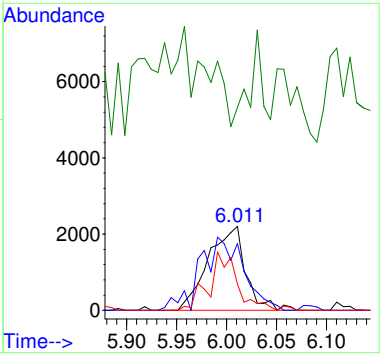


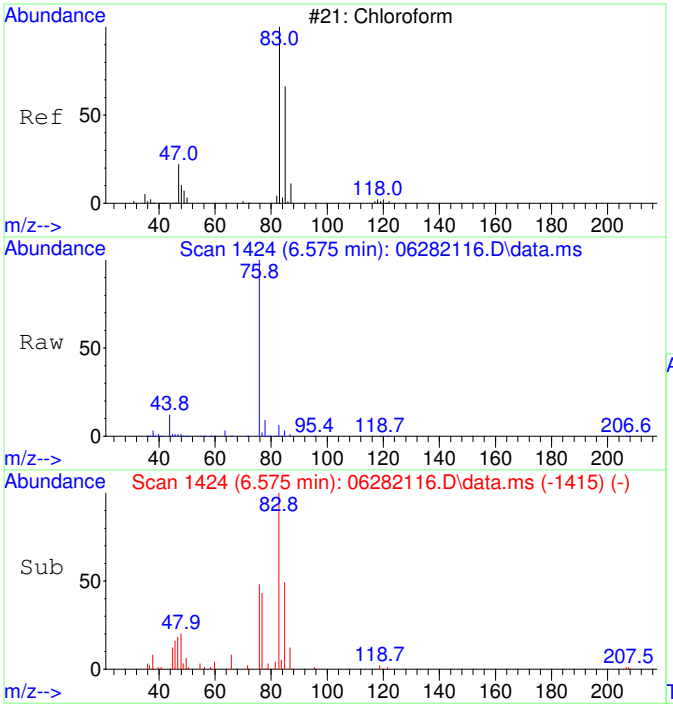


#29
cis-1,2-Dichloroethene SCAN
Concen: 887.04 ug/L
RT: 6.011 min Scan# 1356
Delta R.T. 0.013 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 61 Resp: 5759

Ion	Ratio	Lower	Upper
61	100		
96	0.0	36.9	96.9#
98	0.0	12.1	72.1#
64	20.9	0.0	32.6

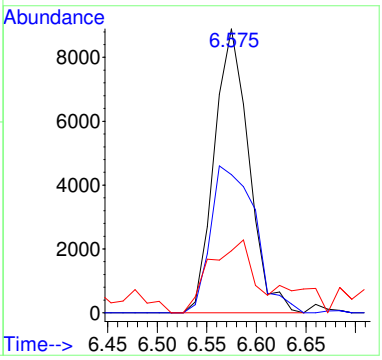


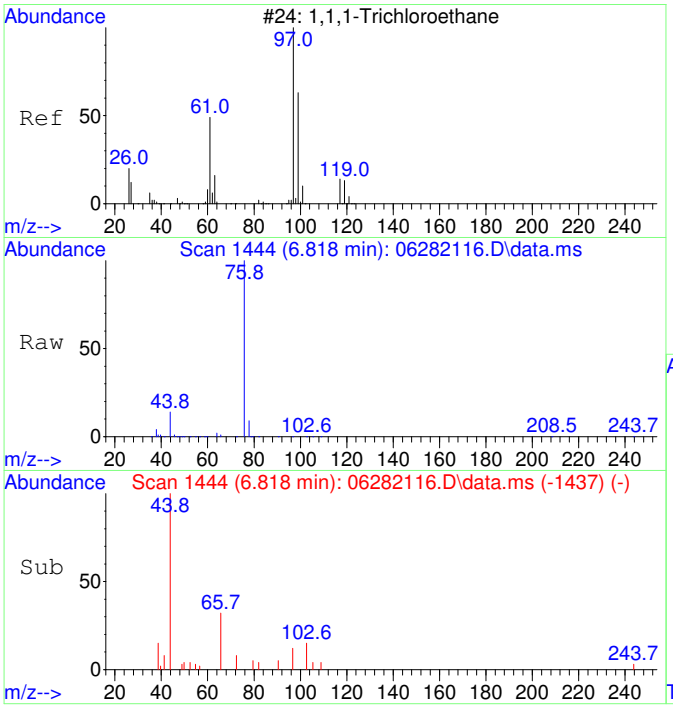


#30
Chloroform SCAN
Concen: 3143.55 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 83 Resp: 21584

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	42.3	7.5	67.5

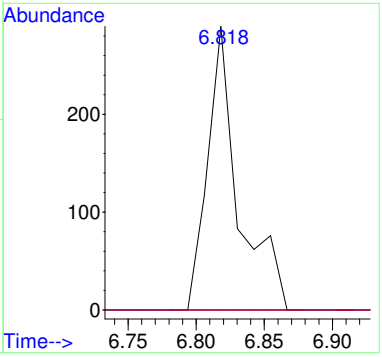


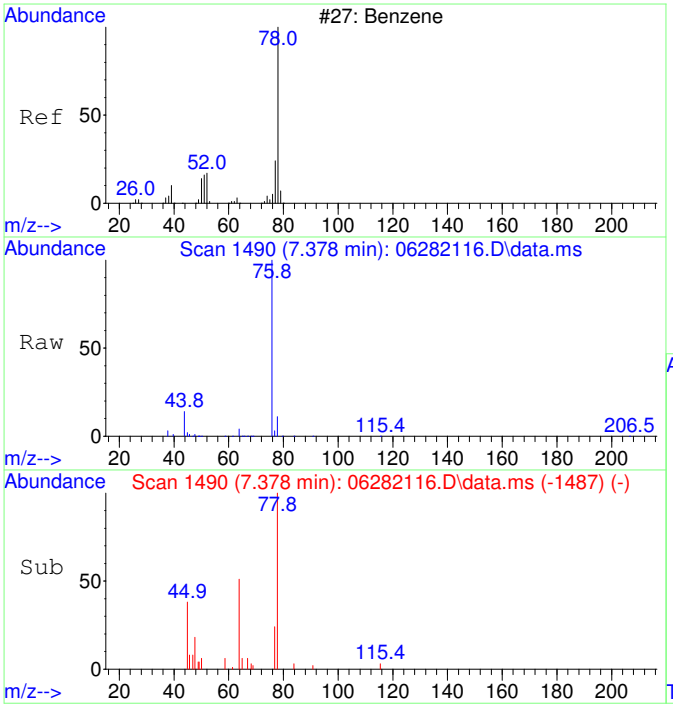


#31
1,1,1-Trichloroethane SCAN
Concen: 71.39 ug/L
RT: 6.818 min Scan# 1444
Delta R.T. -0.012 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 97 Resp: 458

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

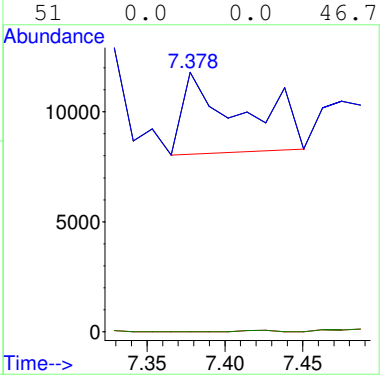


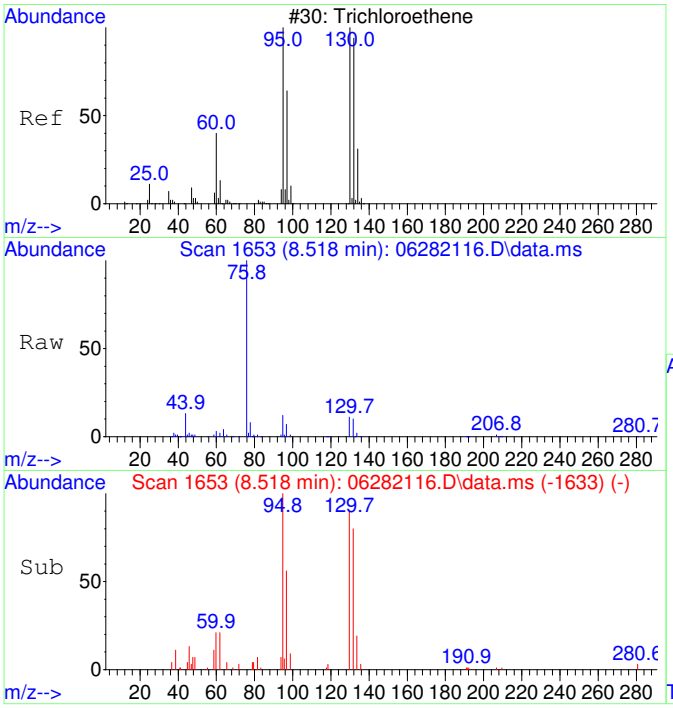


#33
Benzene SCAN
Concen: 609.60 ug/L
RT: 7.378 min Scan# 1490
Delta R.T. -0.061 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 78 Resp: 9819

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

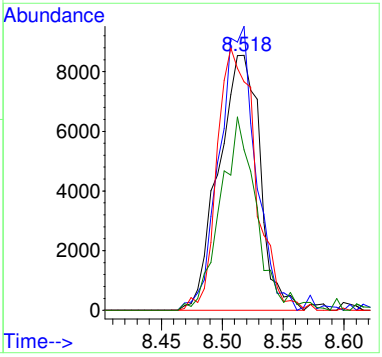


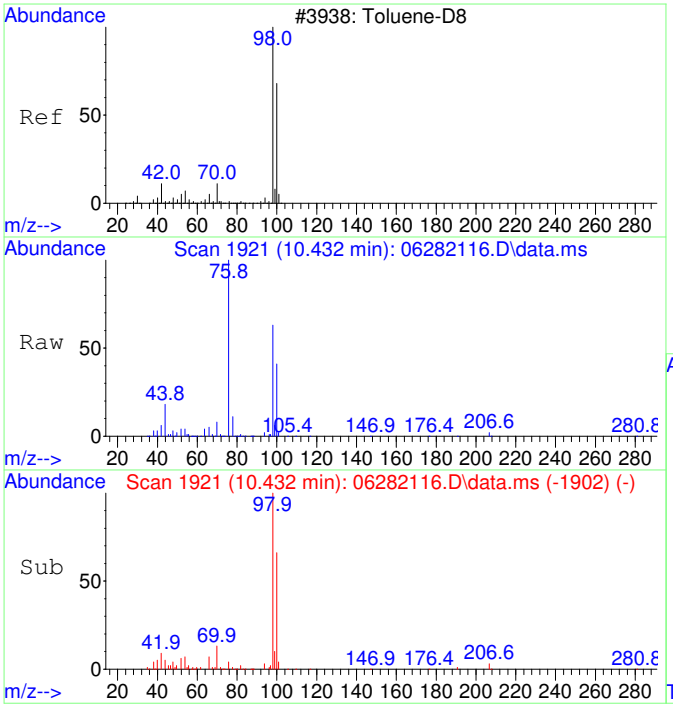


#35
Trichloroethene SCAN
Concen: 4921.36 ug/L
RT: 8.518 min Scan# 1653
Delta R.T. 0.011 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion:130 Resp: 20205

Ion	Ratio	Lower	Upper
130	100		
95	98.1	60.0	120.0
132	95.2	54.3	114.3
97	66.3	24.6	84.6

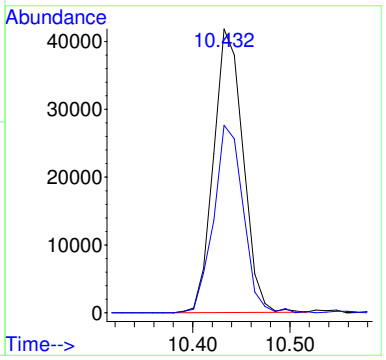


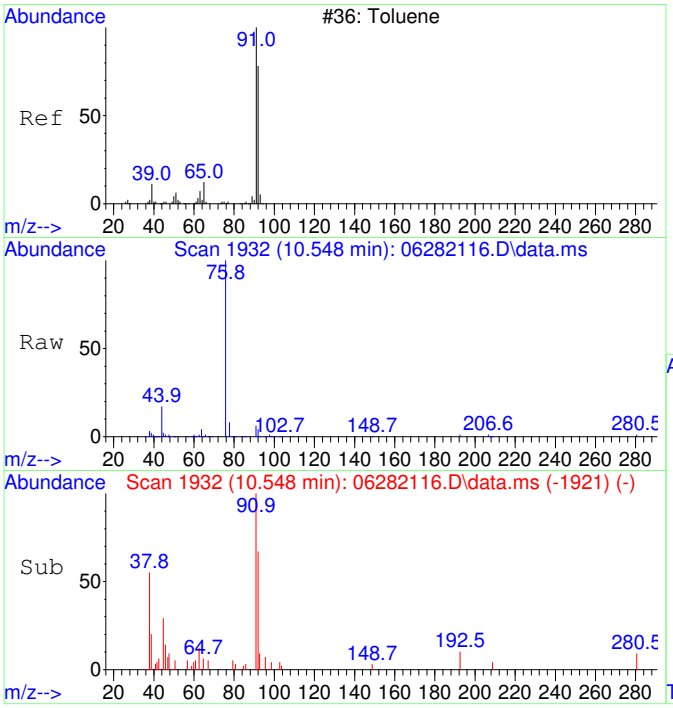


#36
Toluene-d8 SCAN
Concen: 4835.21 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 98 Resp: 88130

Ion	Ratio	Lower	Upper
98	100		
100	66.2	36.1	96.1

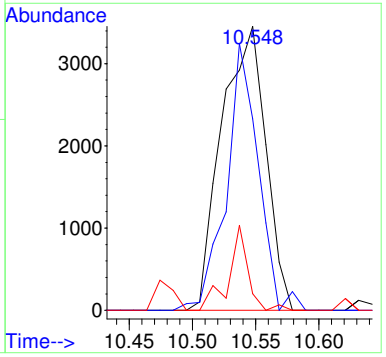


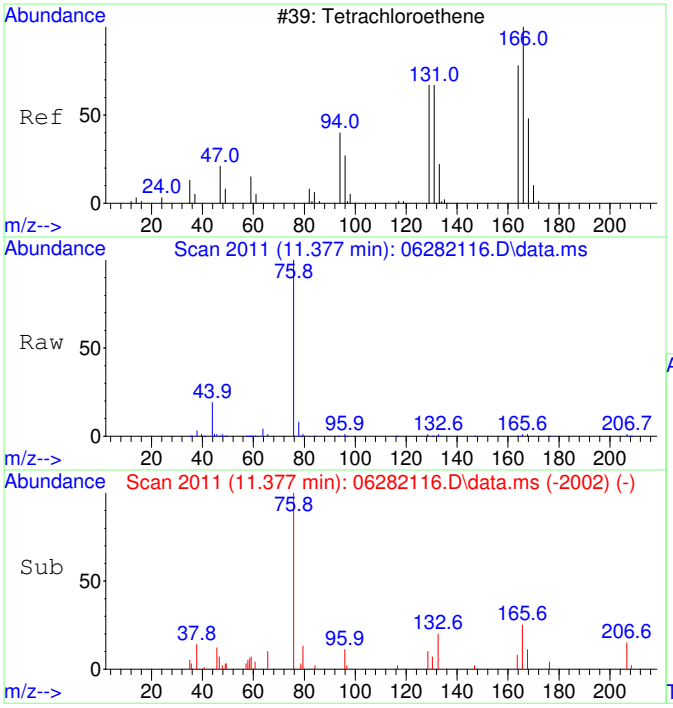


#37
Toluene SCAN
Concen: 355.57 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 91 Resp: 8388

Ion	Ratio	Lower	Upper
91	100		
92	67.9	26.5	86.5
65	13.1	0.0	40.6

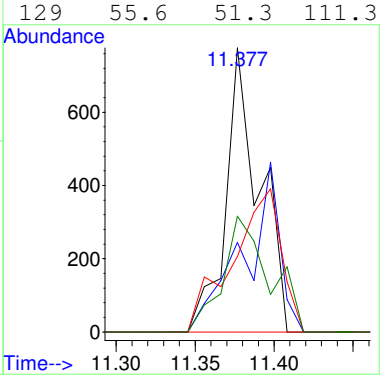


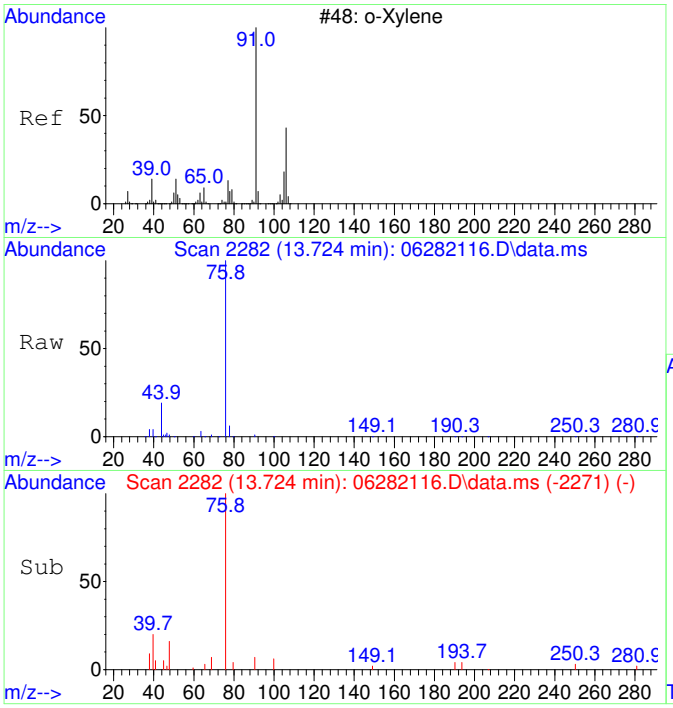


#39
Tetrachloroethene SCAN
Concen: 204.02 ug/L
RT: 11.377 min Scan# 2011
Delta R.T. -0.010 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion:166 Resp: 1159

Ion	Ratio	Lower	Upper
166	100		
164	0.0	53.9	113.9#
131	0.0	45.6	105.6#
129	55.6	51.3	111.3

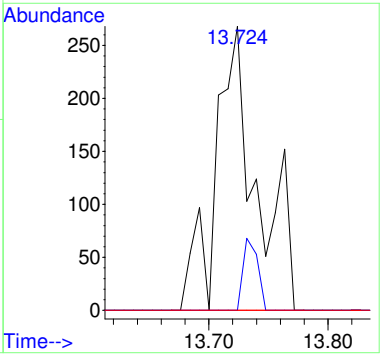




#44
o-Xylene SCAN
Concen: 24.99 ug/L
RT: 13.724 min Scan# 2282
Delta R.T. -0.016 min
Lab File: 06282116.D
Acq: 28 Jun 2021 15:32

Tgt Ion: 91 Resp: 645

Ion	Ratio	Lower	Upper
91	100		
106	9.0	19.1	79.1#
105	0.0	0.0	55.6



2106037-09

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282117.D
Acq On : 28 Jun 2021 15:59
InstName : AG5975C
Operator : TD
Sample : 2106037-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 29 06:06:48 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

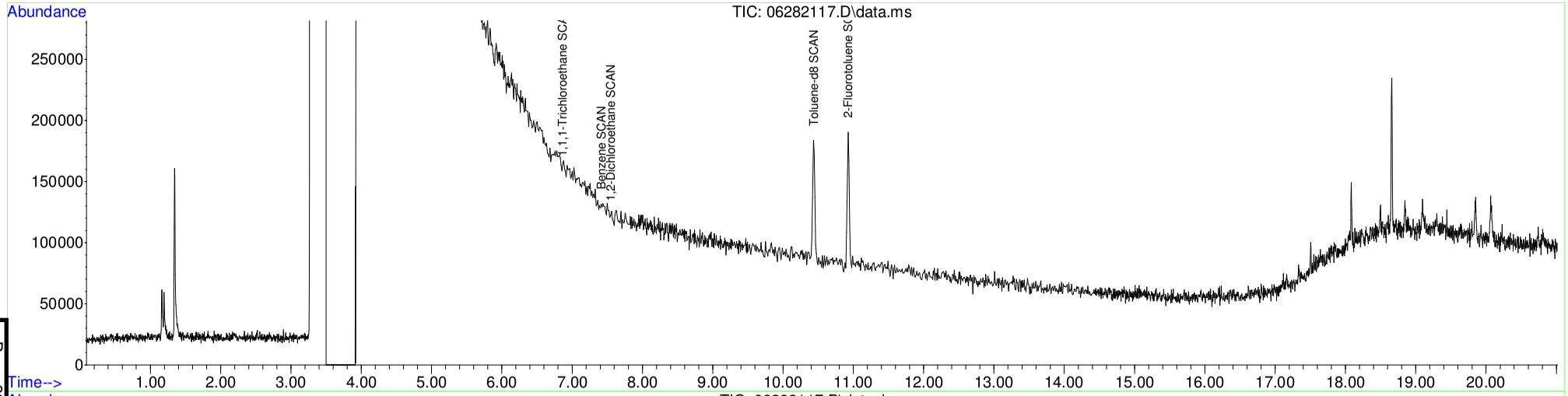
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	158504	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	137596	5067.92	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.36%			
Target Compounds						Qvalue
25) 2-Fluorotoluene SCAN	10.926	109	92585	4745.66	ug/L	97
31) 1,1,1-Trichloroethane ...	6.855	97	337	56.58	ug/L #	28
33) Benzene SCAN	7.414	78	1710	114.35	ug/L #	90
34) 1,2-Dichloroethane SCAN	7.548	62	228	48.36	ug/L #	1
36) Toluene-d8 SCAN	10.432	98	80914	4781.84	ug/L	100

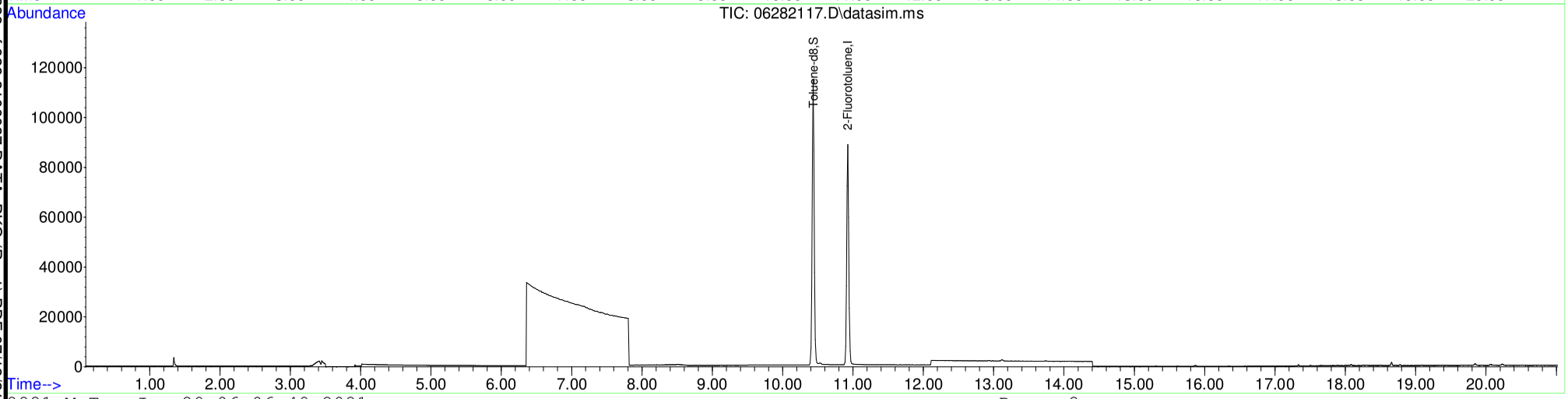
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282117.D
Acq On : 28 Jun 2021 15:59
InstName : AG5975C
Operator : TD
Sample : 2106037-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 29 06:06:48 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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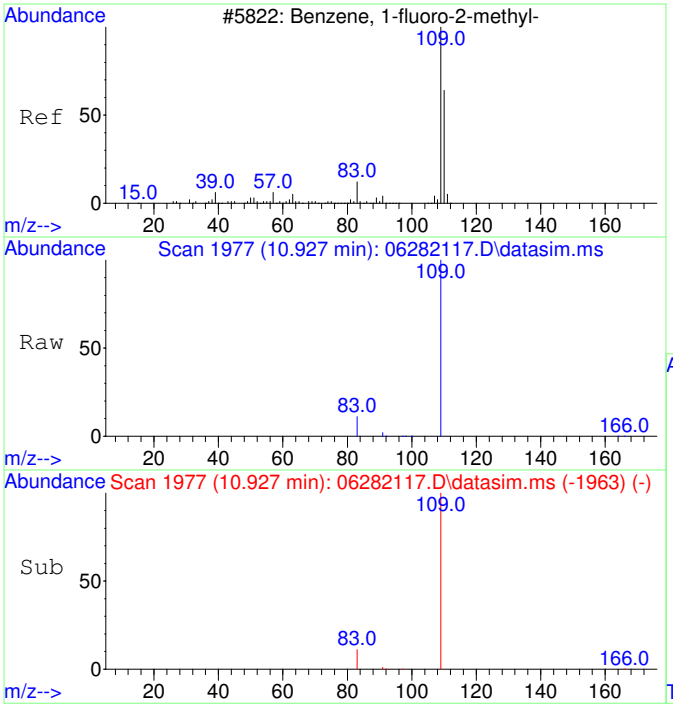
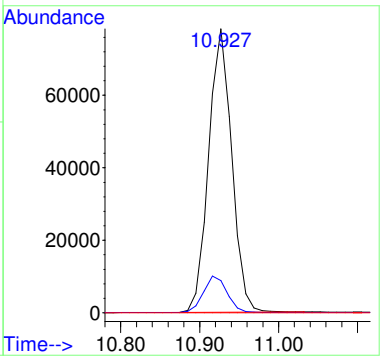
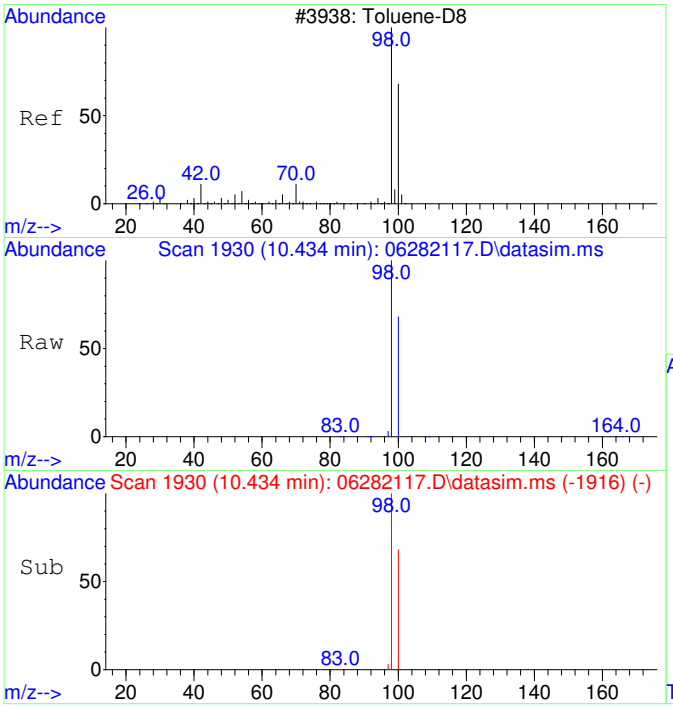


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282117.D
Acq: 28 Jun 2021 15:59

Tgt Ion:109 Resp: 158504

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

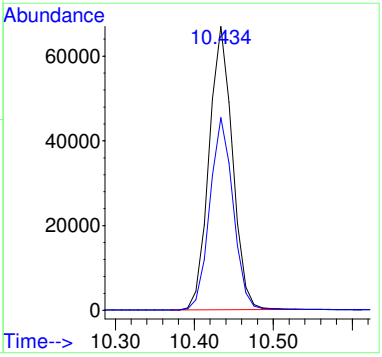


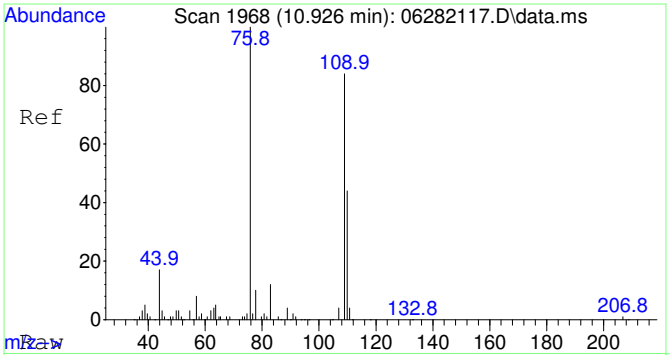


#12
Toluene-d8
Concen: 5067.92 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282117.D
Acq: 28 Jun 2021 15:59

Tgt Ion: 98 Resp: 137596

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

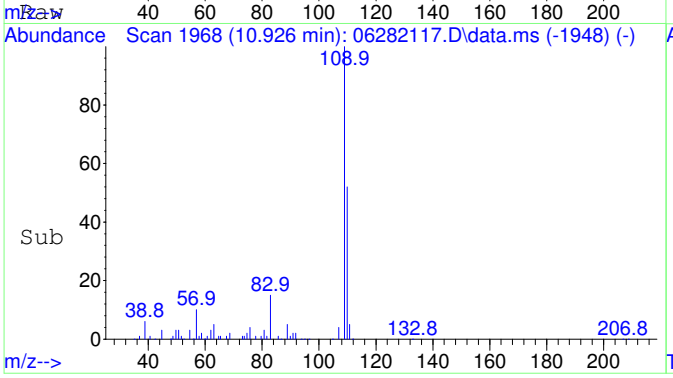


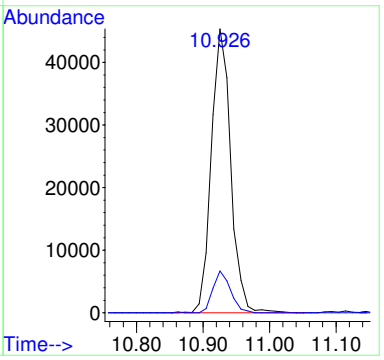


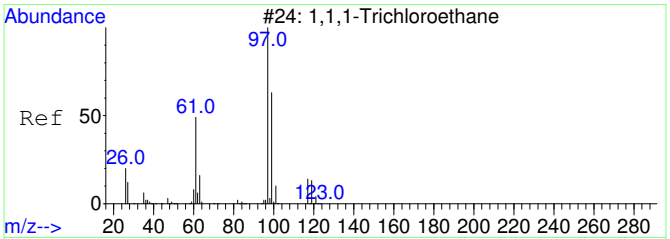
#25
2-Fluorotoluene SCAN
Concen: 4745.66 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282117.D
Acq: 28 Jun 2021 15:59

Tgt Ion:109 Resp: 92585

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	44.5



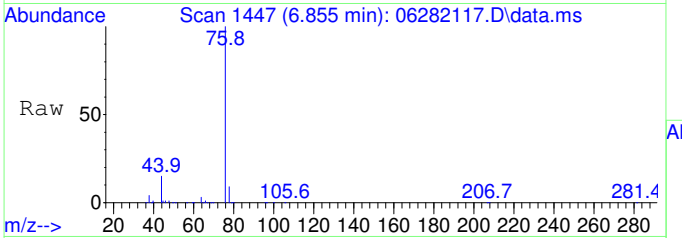


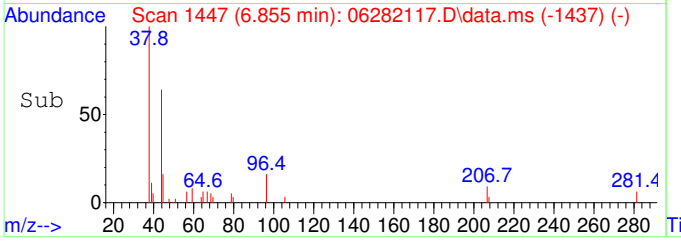


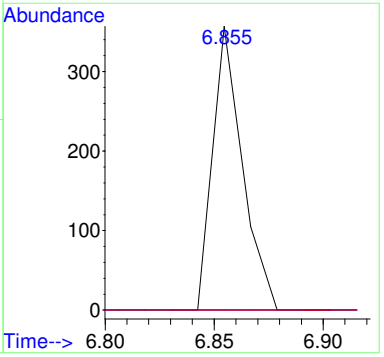
#31
1,1,1-Trichloroethane SCAN
Concen: 56.58 ug/L
RT: 6.855 min Scan# 1447
Delta R.T. 0.024 min
Lab File: 06282117.D
Acq: 28 Jun 2021 15:59

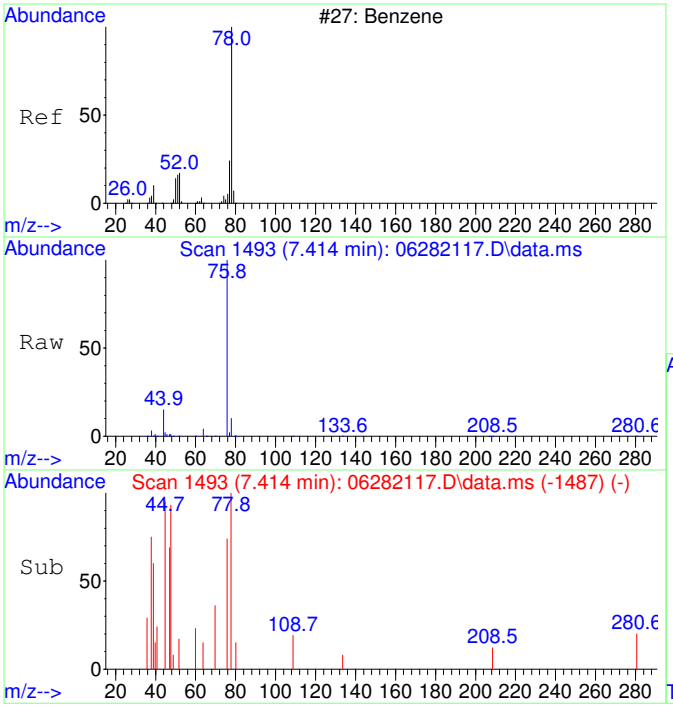
Tgt Ion: 97 Resp: 337

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#





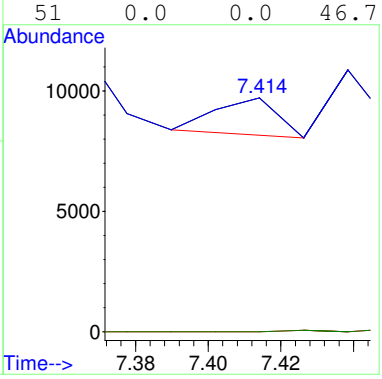


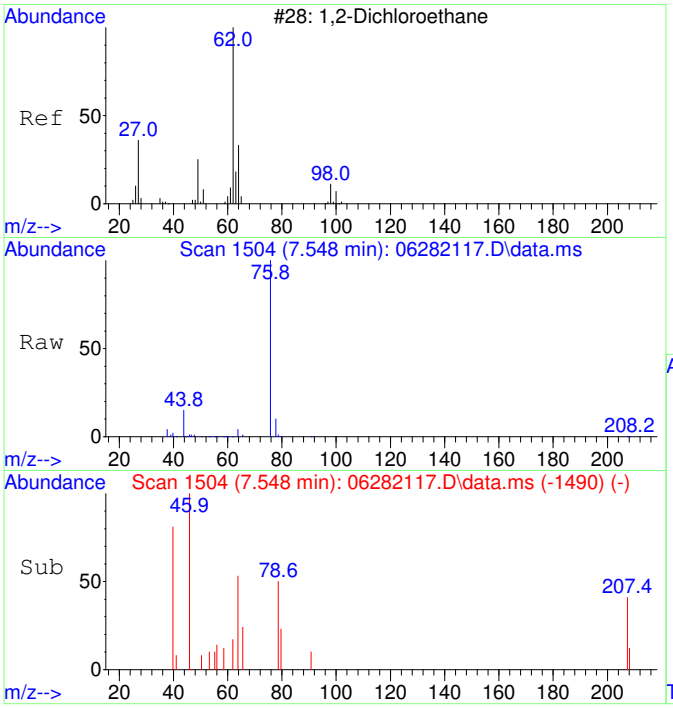


#33
Benzene SCAN
Concen: 114.35 ug/L
RT: 7.414 min Scan# 1493
Delta R.T. -0.024 min
Lab File: 06282117.D
Acq: 28 Jun 2021 15:59

Tgt Ion: 78 Resp: 1710

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

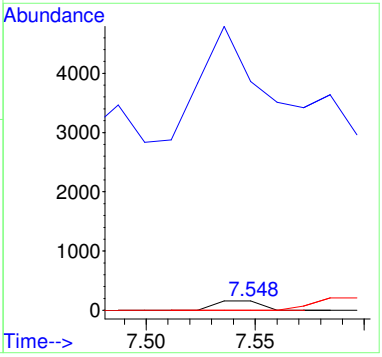


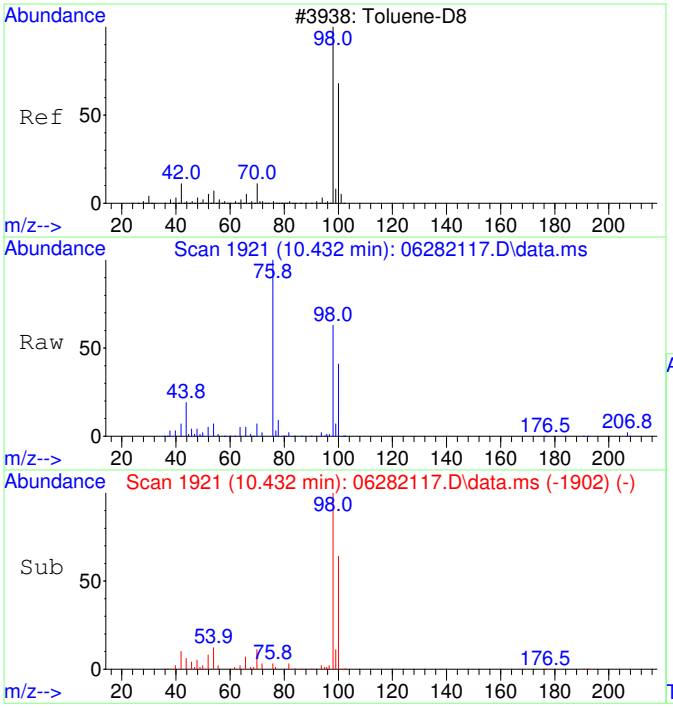


#34
1,2-Dichloroethane SCAN
Concen: 48.36 ug/L
RT: 7.548 min Scan# 1504
Delta R.T. 0.073 min
Lab File: 06282117.D
Acq: 28 Jun 2021 15:59

Tgt Ion: 62 Resp: 228

Ion	Ratio	Lower	Upper
62	100		
64	1829.4	13.3	73.3#
49	0.0	4.1	64.1#

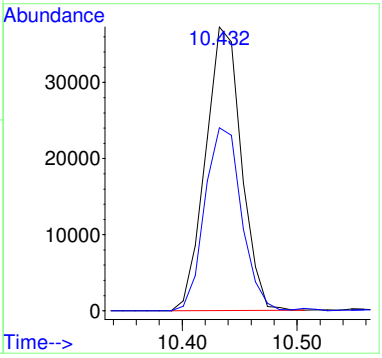




#36
Toluene-d8 SCAN
Concen: 4781.84 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282117.D
Acq: 28 Jun 2021 15:59

Tgt Ion: 98 Resp: 80914

Ion	Ratio	Lower	Upper
98	100		
100	65.8	36.1	96.1



2106037-10

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282118.D
Acq On : 28 Jun 2021 16:25
InstName : AG5975C
Operator : TD
Sample : 2106037-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 29 06:06:52 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

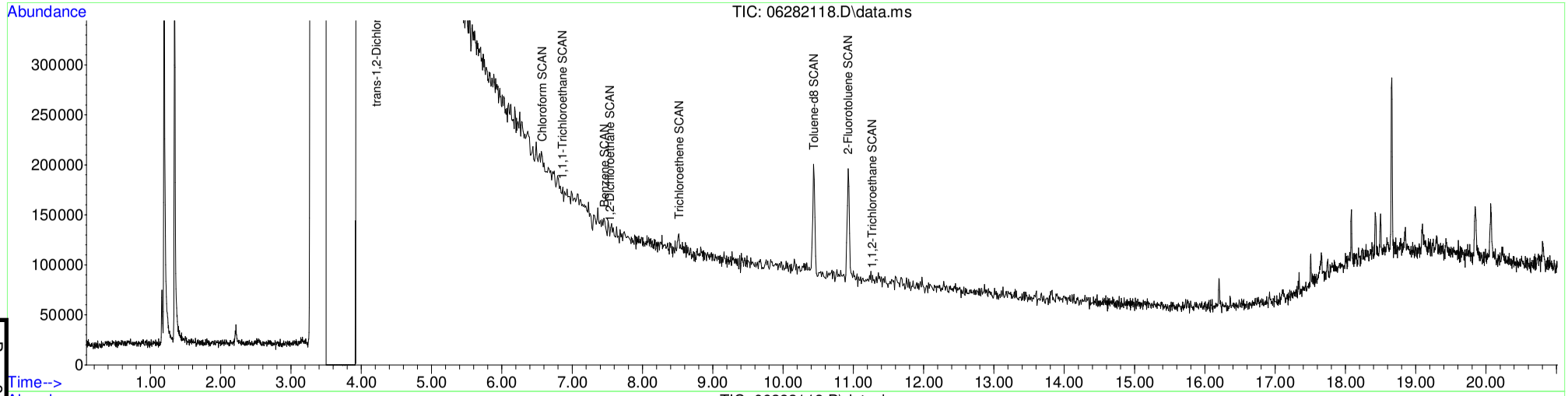
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	162438	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	140726	5057.68 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.15%		
Target Compounds					Qvalue
3] trans-1,2-Dichloroethene	4.221	61	371	60.93 ug/L #	90
6] Chloroform	6.564	83	11843	1257.58 ug/L #	100
8] Carbon tetrachloride	7.111	117	195	25.54 ug/L #	78
11] Trichloroethene	8.514	130	7924	1124.74 ug/L	99
25) 2-Fluorotoluene SCAN	10.925	109	95100	4756.51 ug/L	95
27) trans-1,2-Dichloroethe...	4.213	61	494	108.13 ug/L #	20
30) Chloroform SCAN	6.575	83	8870	1357.83 ug/L	86
31) 1,1,1-Trichloroethane ...	6.854	97	282	46.20 ug/L #	45
33) Benzene SCAN	7.463	78	3637	237.33 ug/L	92
34) 1,2-Dichloroethane SCAN	7.536	62	388	80.31 ug/L #	33
35) Trichloroethene SCAN	8.518	130	4257	1089.84 ug/L #	59
36) Toluene-d8 SCAN	10.432	98	91577	5280.93 ug/L	95
38) 1,1,2-Trichloroethane ...	11.261	97	131	24.50 ug/L #	14

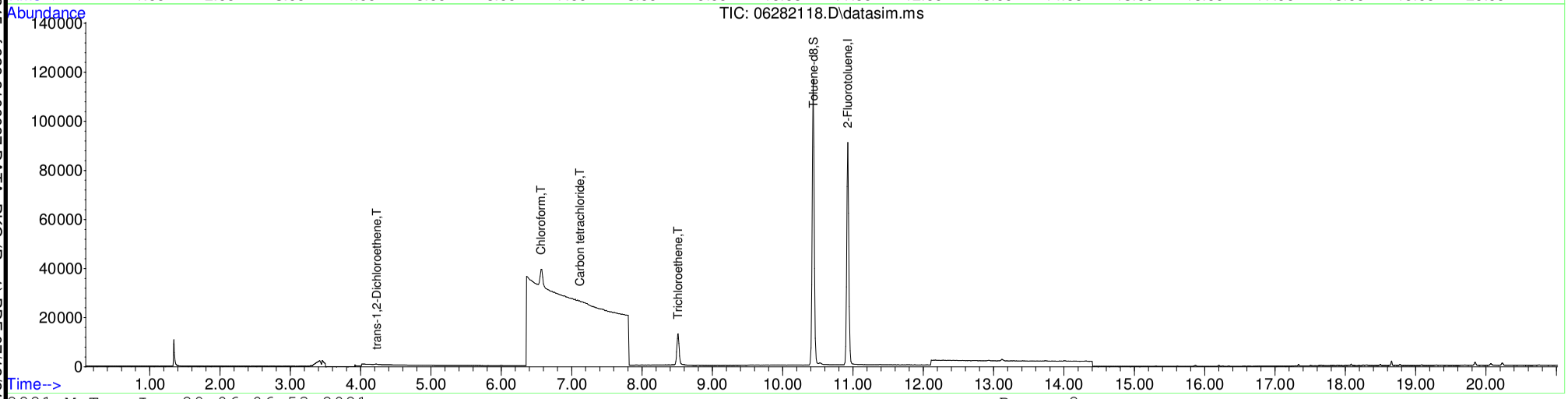
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282118.D
Acq On : 28 Jun 2021 16:25
InstName : AG5975C
Operator : TD
Sample : 2106037-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 29 06:06:52 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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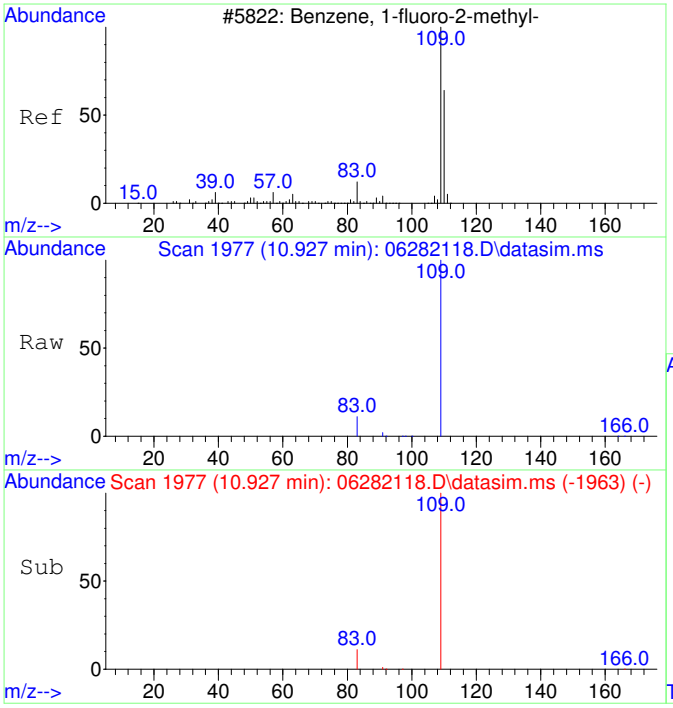
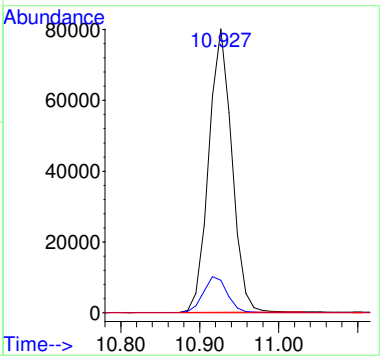
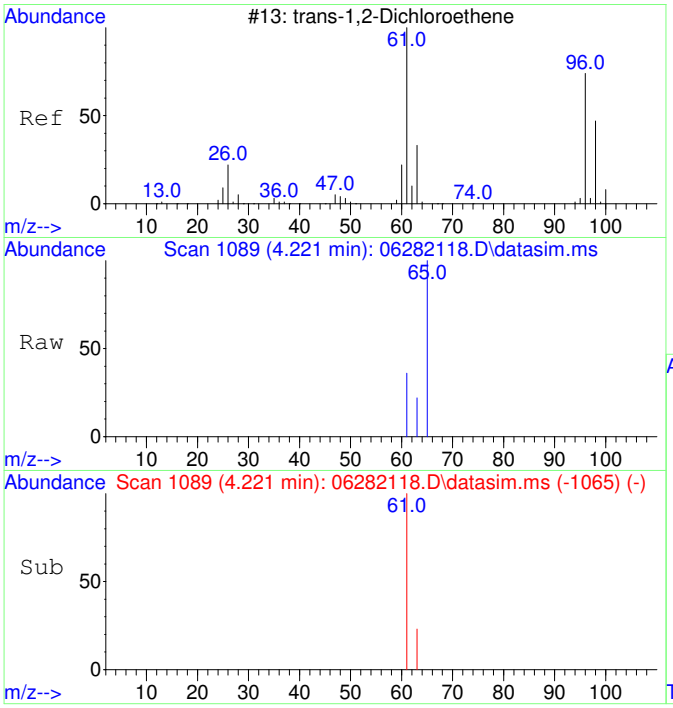


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion:109 Resp: 162438

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

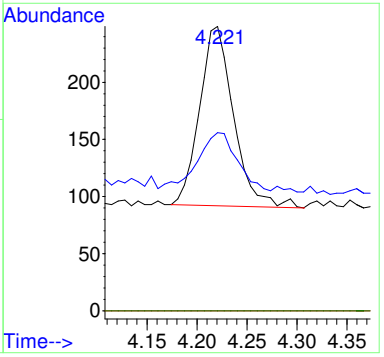


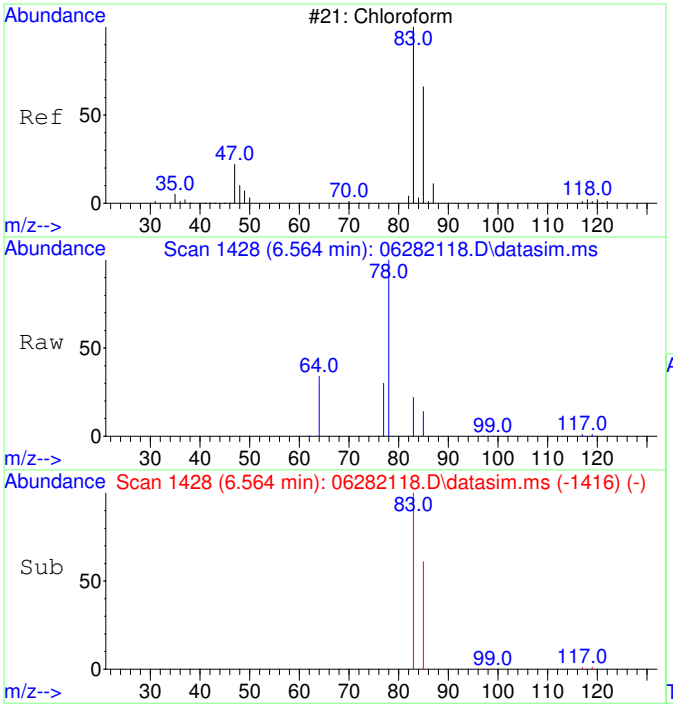


#3
trans-1,2-Dichloroethene
Concen: 60.93 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion: 61 Resp: 371

Ion	Ratio	Lower	Upper
61	100		
63	38.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

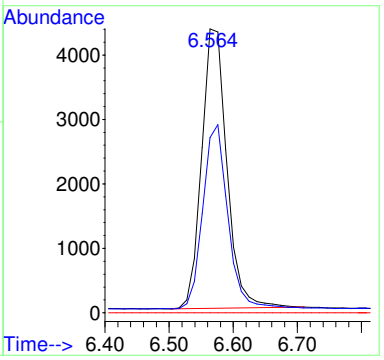


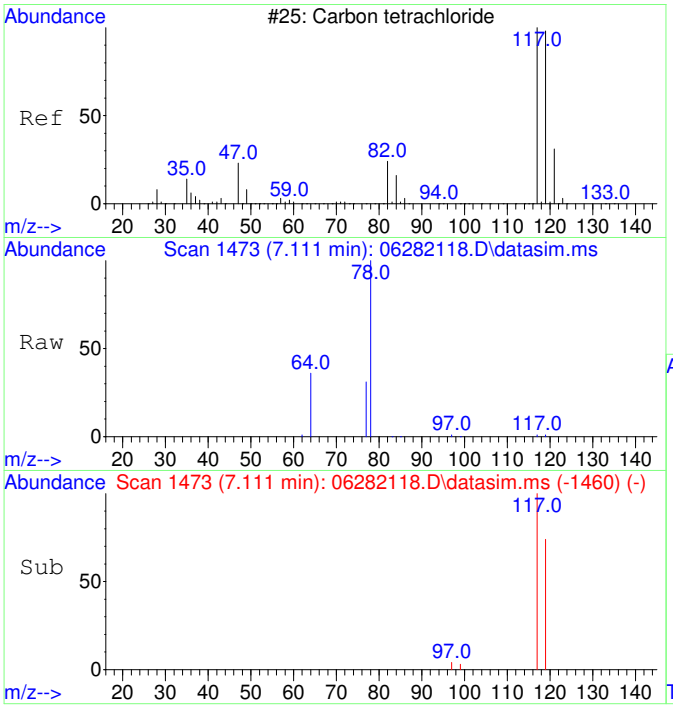


#6
Chloroform
Concen: 1257.58 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion: 83 Resp: 11843

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.5	94.5
87	0.0	0.0	20.0

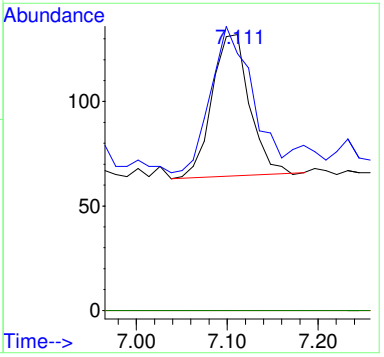


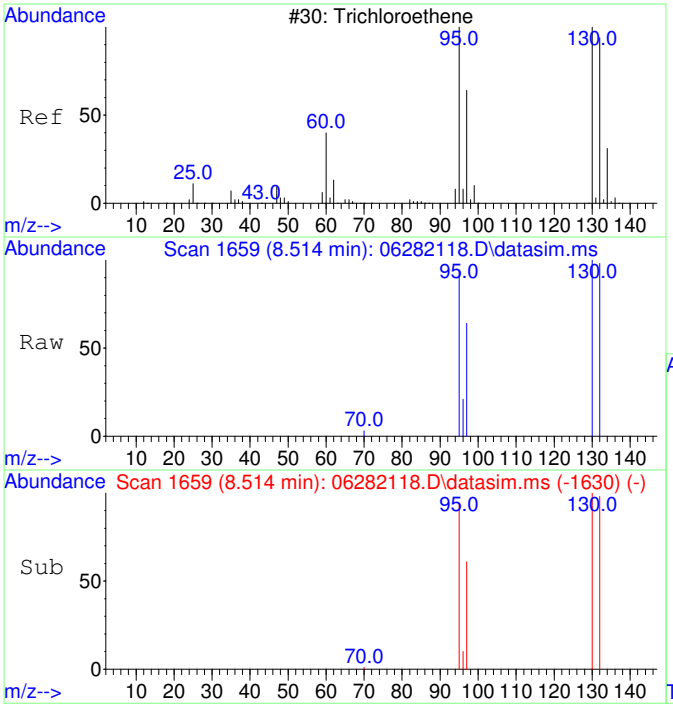


#8
Carbon tetrachloride
Concen: 25.54 ug/L
RT: 7.111 min Scan# 1473
Delta R.T. 0.012 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion:117 Resp: 195

Ion	Ratio	Lower	Upper
117	100		
119	117.9	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

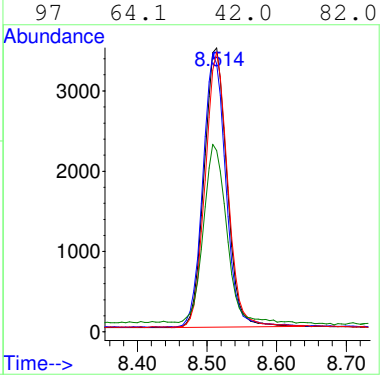


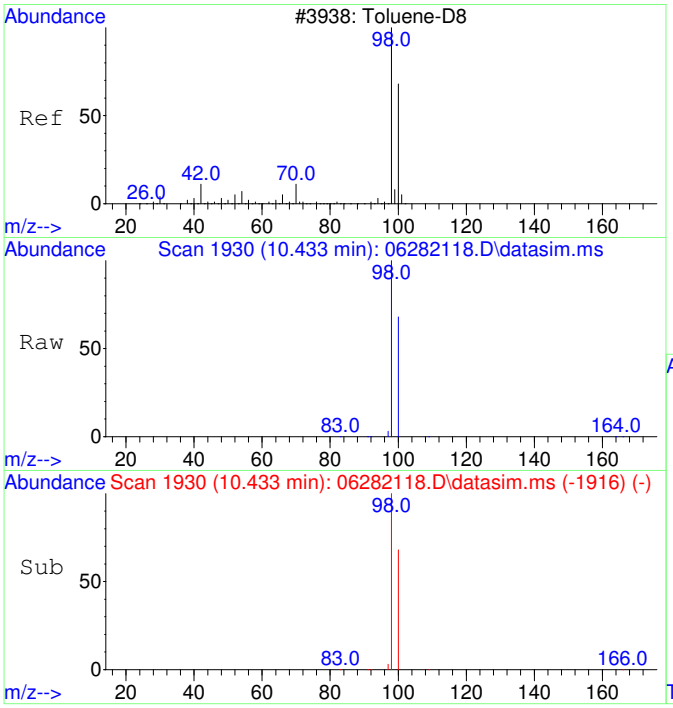


#11
Trichloroethene
Concen: 1124.74 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion:130 Resp: 7924

Ion	Ratio	Lower	Upper
130	100		
95	97.5	65.8	125.8
132	96.2	75.8	115.8
97	64.1	42.0	82.0

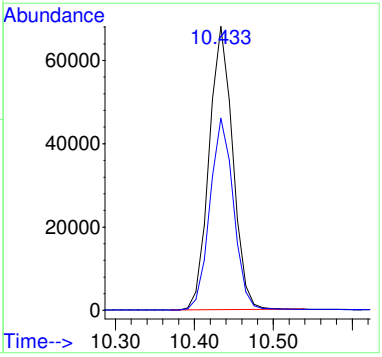


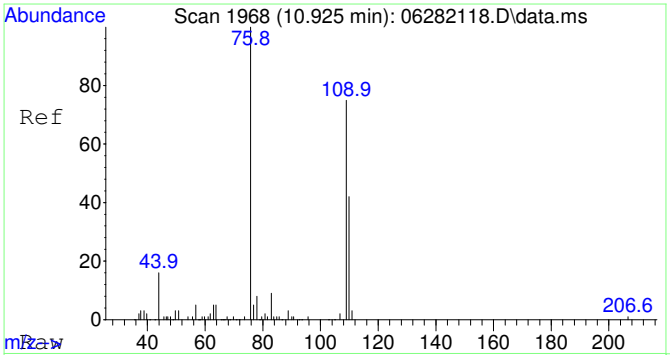


#12
Toluene-d8
Concen: 5057.68 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion: 98 Resp: 140726

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

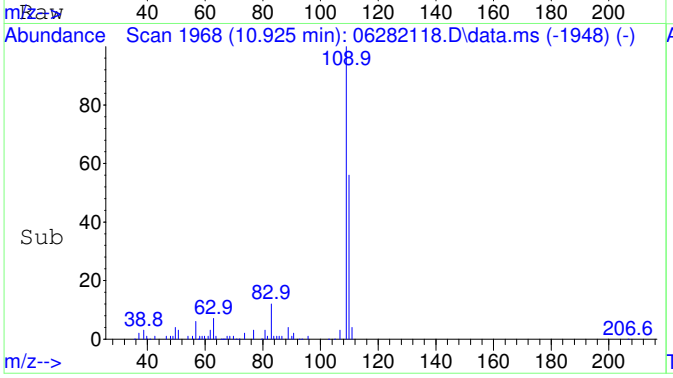


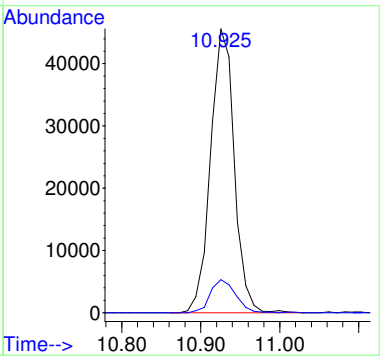


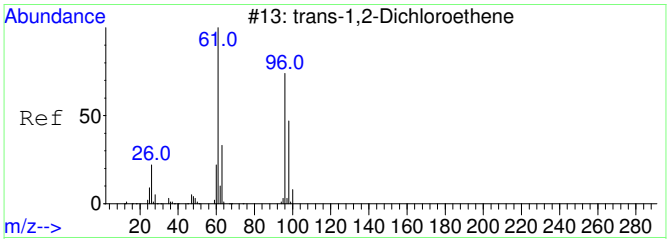
#25
2-Fluorotoluene SCAN
Concen: 4756.51 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion:109 Resp: 95100

Ion	Ratio	Lower	Upper
109	100		
83	12.5	0.0	44.5



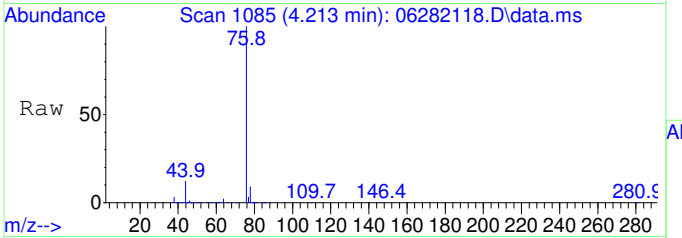


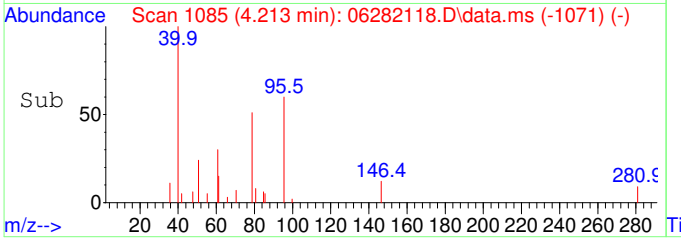


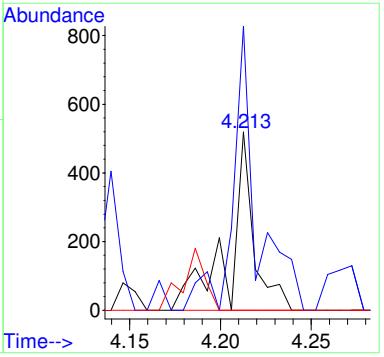
#27
trans-1,2-Dichloroethene SCAN
Concen: 108.13 ug/L
RT: 4.213 min Scan# 1085
Delta R.T. -0.007 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

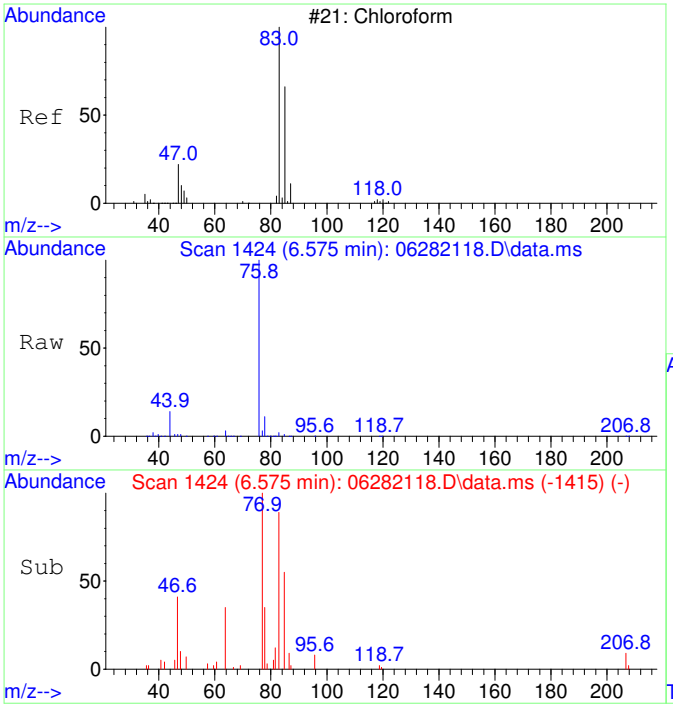
Tgt Ion: 61 Resp: 494

Ion	Ratio	Lower	Upper
61	100		
96	152.0	49.3	109.3#
98	0.0	24.0	84.0#





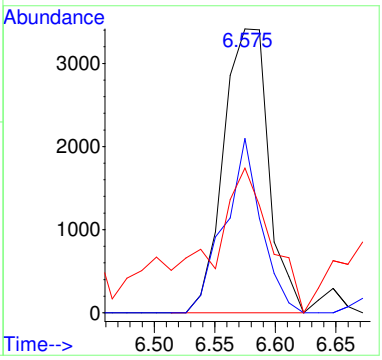


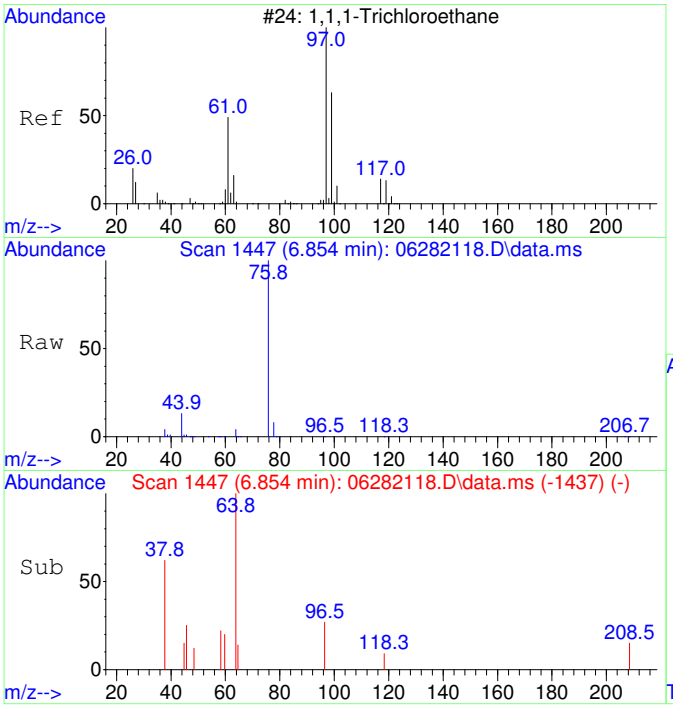


#30
Chloroform SCAN
Concen: 1357.83 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion: 83 Resp: 8870

Ion	Ratio	Lower	Upper
83	100		
85	50.1	27.1	87.1
47	50.2	7.5	67.5

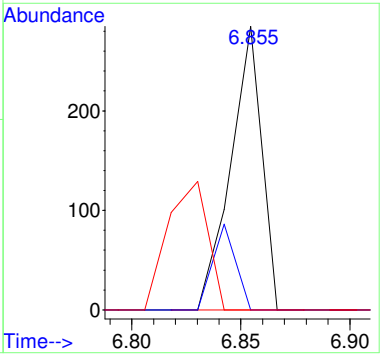


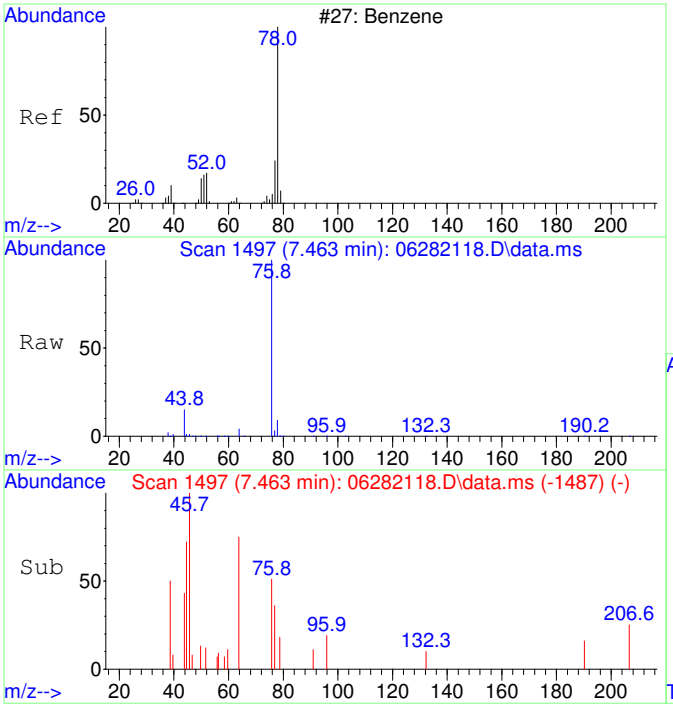


#31
1,1,1-Trichloroethane SCAN
Concen: 46.20 ug/L
RT: 6.854 min Scan# 1447
Delta R.T. 0.024 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion: 97 Resp: 282

Ion	Ratio	Lower	Upper
97	100		
99	22.3	26.5	86.5#
61	0.0	11.4	71.4#

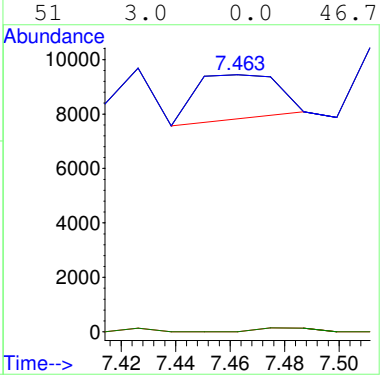


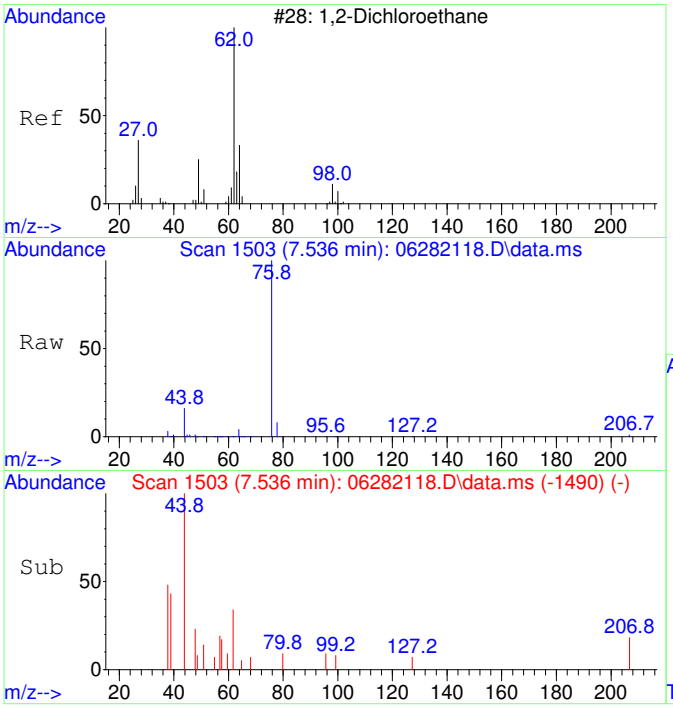


#33
Benzene SCAN
Concen: 237.33 ug/L
RT: 7.463 min Scan# 1497
Delta R.T. 0.024 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion: 78 Resp: 3637

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.0	0.0	46.7
51	3.0	0.0	46.7

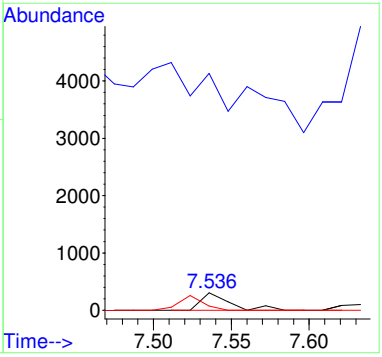


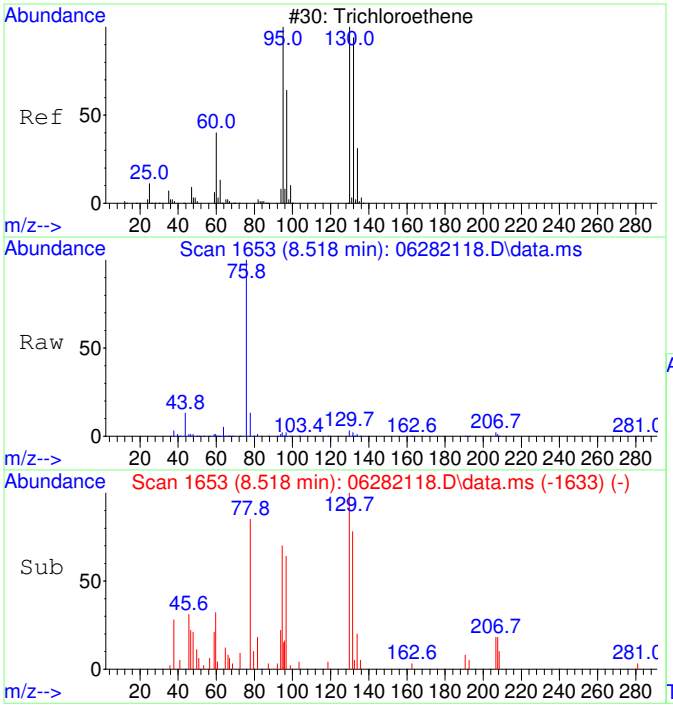


#34
1,2-Dichloroethane SCAN
Concen: 80.31 ug/L
RT: 7.536 min Scan# 1503
Delta R.T. 0.061 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion: 62 Resp: 388

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	72.2	4.1	64.1#

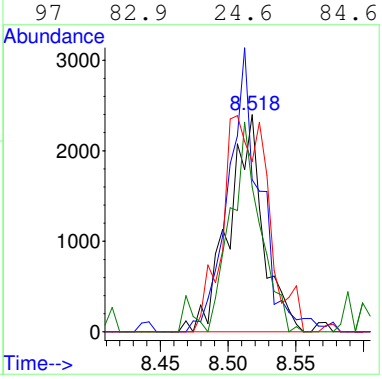


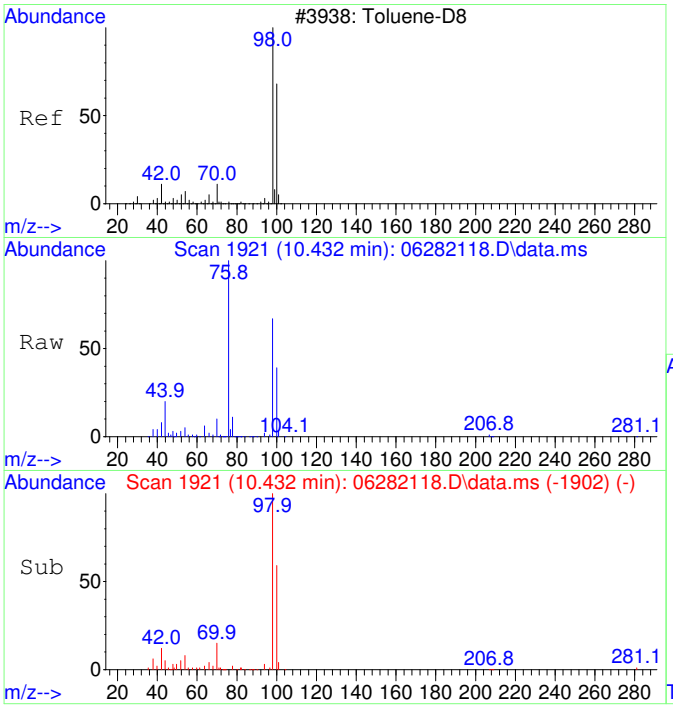


#35
Trichloroethene SCAN
Concen: 1089.84 ug/L
RT: 8.518 min Scan# 1653
Delta R.T. 0.011 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion:130 Resp: 4257

Ion	Ratio	Lower	Upper
130	100		
95	121.2	60.0	120.0#
132	130.4	54.3	114.3#
97	82.9	24.6	84.6

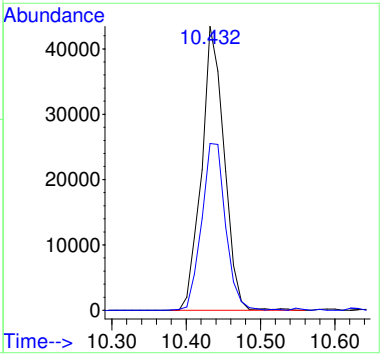


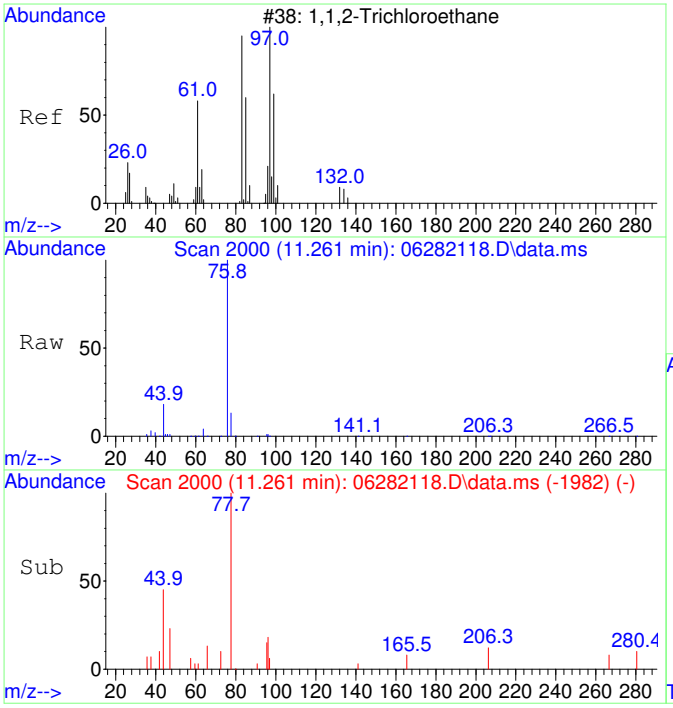


#36
Toluene-d8 SCAN
Concen: 5280.93 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion: 98 Resp: 91577

Ion	Ratio	Lower	Upper
98	100		
100	62.4	36.1	96.1

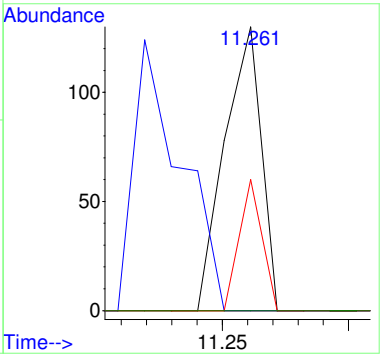




#38
1,1,2-Trichloroethane SCAN
Concen: 24.50 ug/L
RT: 11.261 min Scan# 2000
Delta R.T. 0.084 min
Lab File: 06282118.D
Acq: 28 Jun 2021 16:25

Tgt Ion: 97 Resp: 131

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#



2106037-11

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282119.D
Acq On : 28 Jun 2021 16:52
InstName : AG5975C
Operator : TD
Sample : 2106037-11
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 29 06:06:56 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

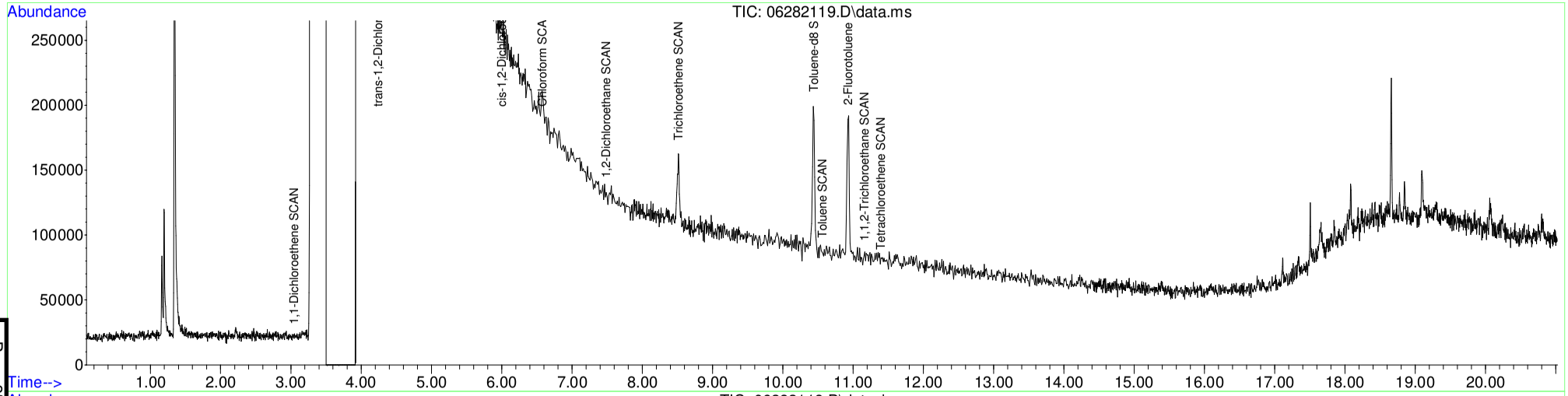
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	174405	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	150708	5044.77 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.90%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	924	121.64 ug/L #	98
3] trans-1,2-Dichloroethene	4.221	61	492	75.26 ug/L #	99
4] 1,1-Dichloroethane	4.970	63	861	96.03 ug/L #	55
5] cis-1,2-Dichloroethene	5.992	61	9964	1159.78 ug/L #	100
6] Chloroform	6.576	83	21815	2157.54 ug/L #	100
7] 1,1,1-Trichloroethane	6.832	97	536	56.97 ug/L #	97
8] Carbon tetrachloride	7.099	117	228	27.82 ug/L #	85
11] Trichloroethene	8.514	130	32745	4328.92 ug/L	98
13] Toluene	10.528	91	1629	41.89 ug/L	98
15] Tetrachloroethene	11.389	166	2339	235.14 ug/L #	98
19] m&p-Xylene	13.122	91	1257	31.95 ug/L #	94
23] 1,2,4-Trimethylbenzene	15.844	105	2375	45.63 ug/L #	30
25) 2-Fluorotoluene SCAN	10.926	109	100058	4661.10 ug/L	97
26) 1,1-Dichloroethene SCAN	3.044	61	627	138.29 ug/L #	41
27) trans-1,2-Dichloroethe...	4.239	61	458	93.37 ug/L #	29
29) cis-1,2-Dichloroethene...	5.998	61	6775	1021.57 ug/L #	74
30) Chloroform SCAN	6.575	83	14726	2099.59 ug/L	84
34) 1,2-Dichloroethane SCAN	7.487	62	147	28.34 ug/L #	36
35) Trichloroethene SCAN	8.518	130	19783	4717.15 ug/L	85
36) Toluene-d8 SCAN	10.432	98	90641	4868.30 ug/L	98
37) Toluene SCAN	10.558	91	1667	69.18 ug/L #	40
38) 1,1,2-Trichloroethane ...	11.156	97	227	39.54 ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	1803	310.71 ug/L #	54

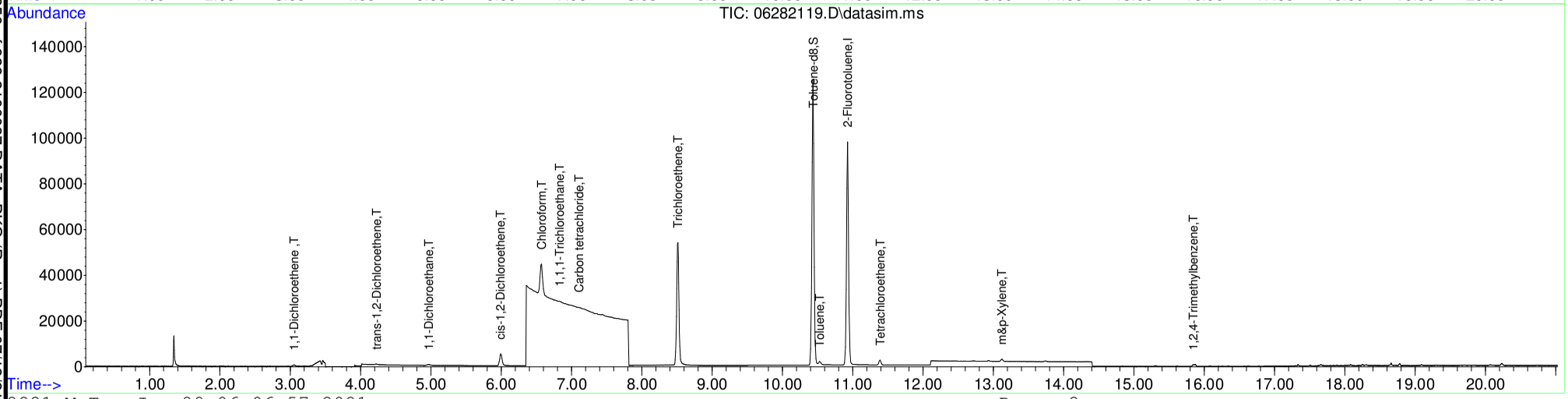
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282119.D
Acq On : 28 Jun 2021 16:52
InstName : AG5975C
Operator : TD
Sample : 2106037-11
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 29 06:06:56 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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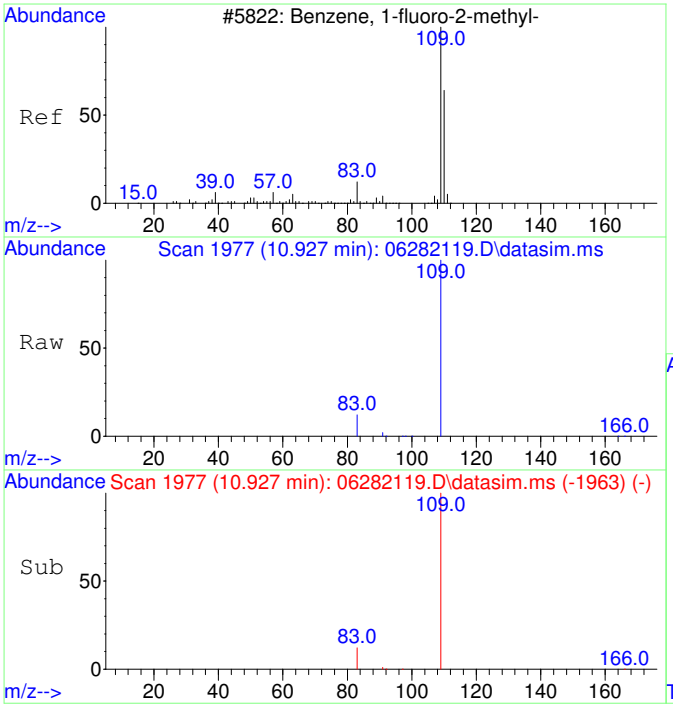
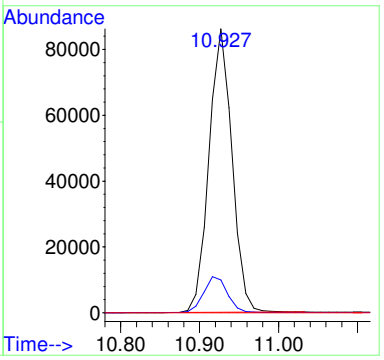
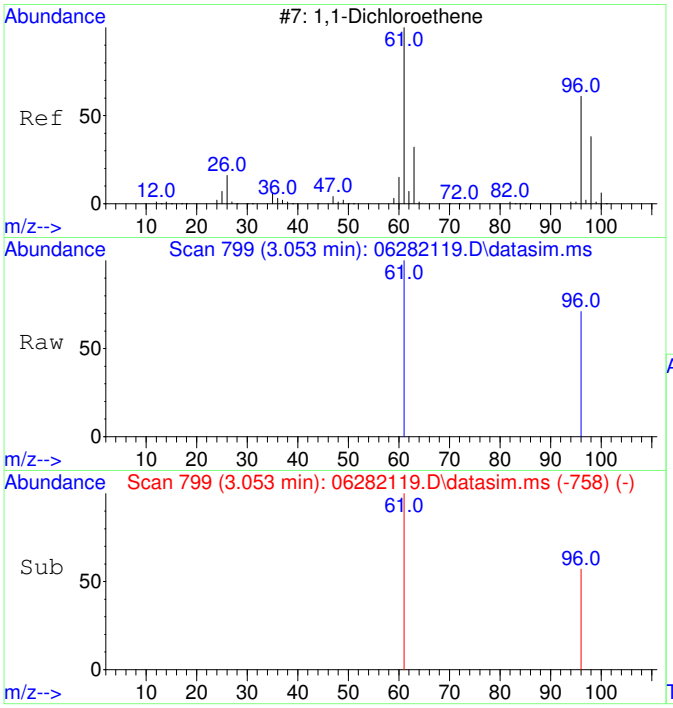


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion:109 Resp: 174405

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

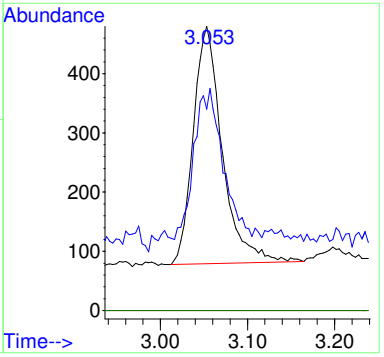


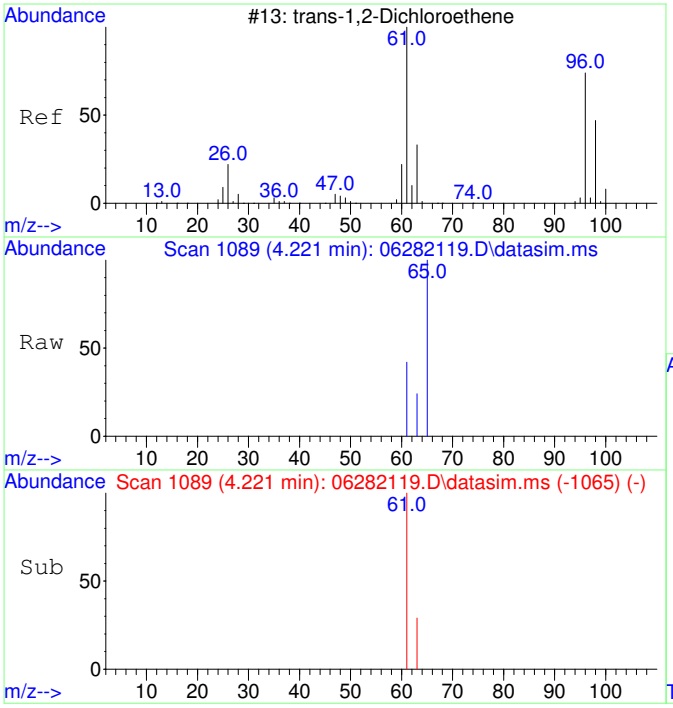


#2
1,1-Dichloroethene
Concen: 121.64 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 61 Resp: 924

Ion	Ratio	Lower	Upper
61	100		
96	63.0	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

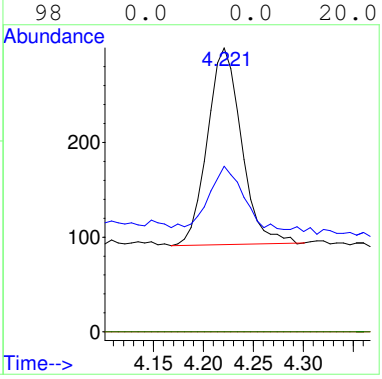


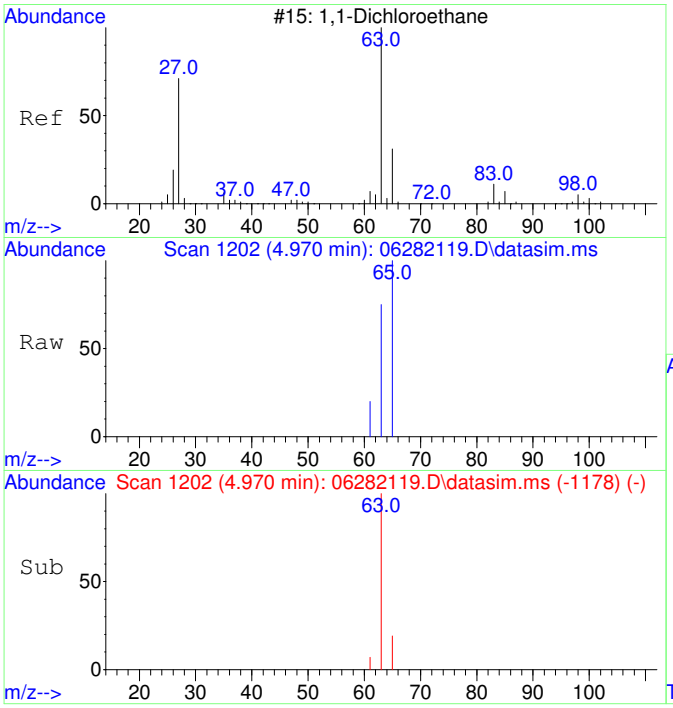


#3
trans-1,2-Dichloroethene
Concen: 75.26 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 61 Resp: 492

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

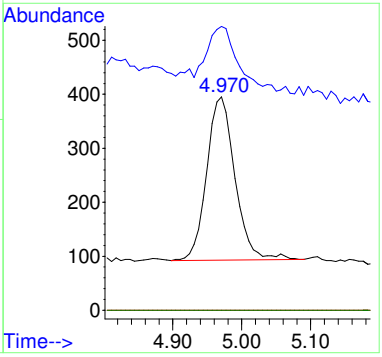


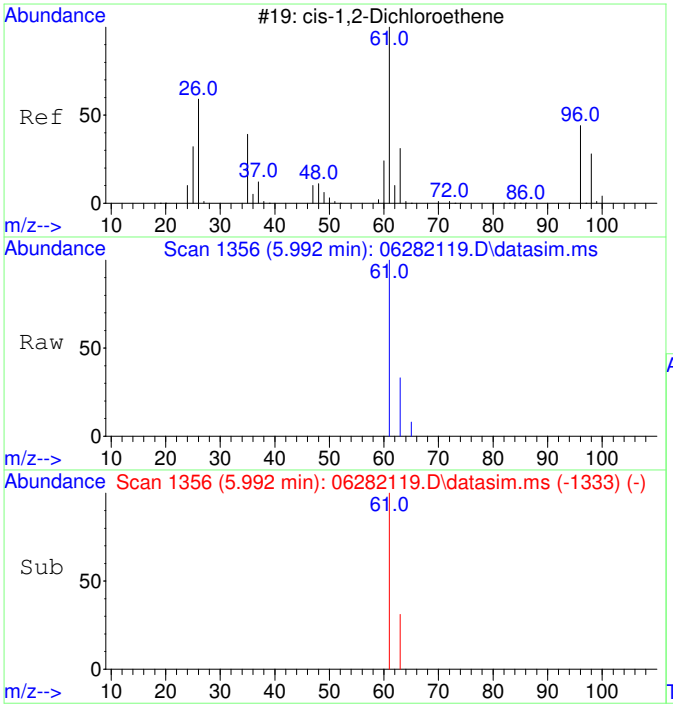


#4
1,1-Dichloroethane
Concen: 96.03 ug/L
RT: 4.970 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 63 Resp: 861

Ion	Ratio	Lower	Upper
63	100		
65	56.1	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

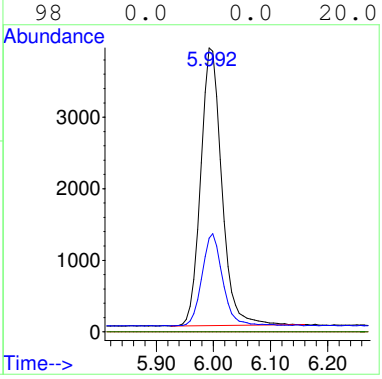


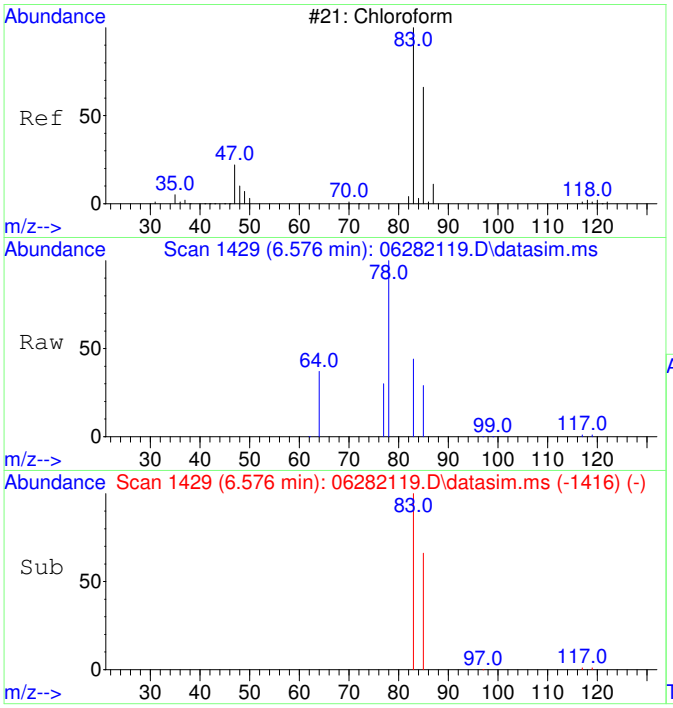


#5
cis-1,2-Dichloroethene
Concen: 1159.78 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 61 Resp: 9964

Ion	Ratio	Lower	Upper
61	100		
63	32.6	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

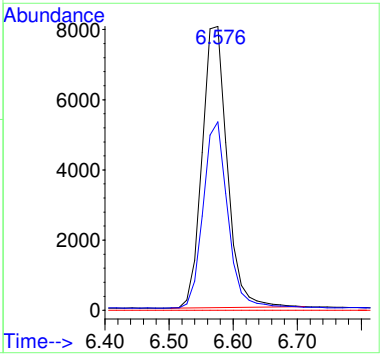


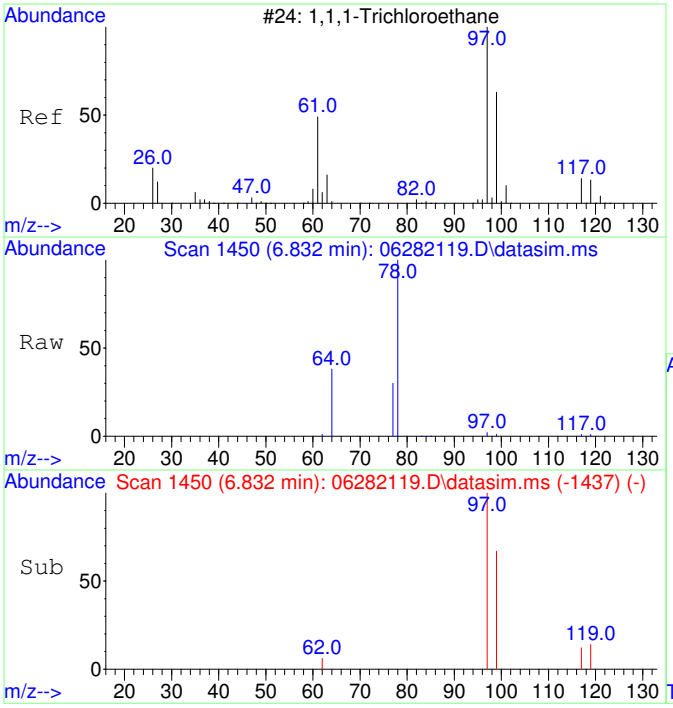


#6
Chloroform
Concen: 2157.54 ug/L
RT: 6.576 min Scan# 1429
Delta R.T. 0.012 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 83 Resp: 21815

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.5	94.5
87	0.0	0.0	20.0

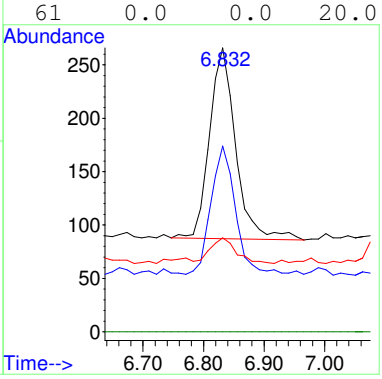


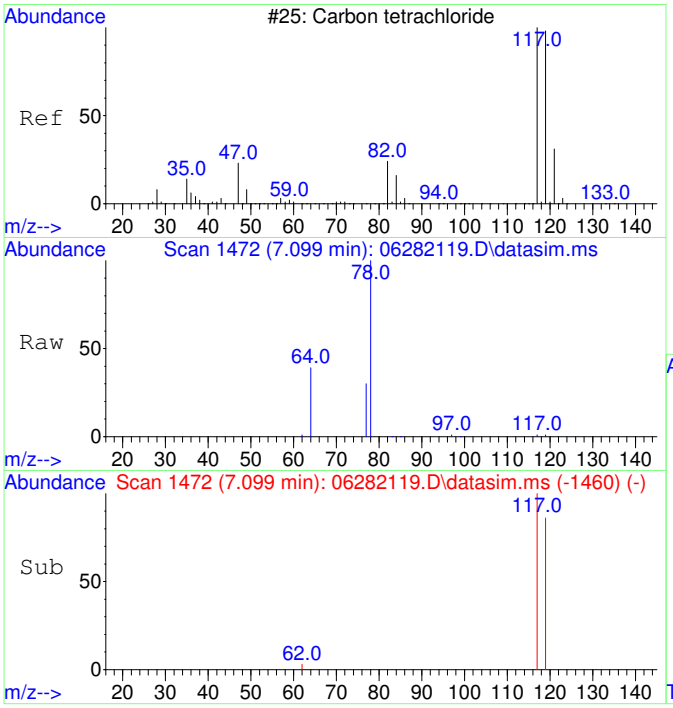


#7
1,1,1-Trichloroethane
Concen: 56.97 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 97 Resp: 536

Ion	Ratio	Lower	Upper
97	100		
99	61.4	34.4	94.4
117	13.2	0.0	42.8
61	0.0	0.0	20.0

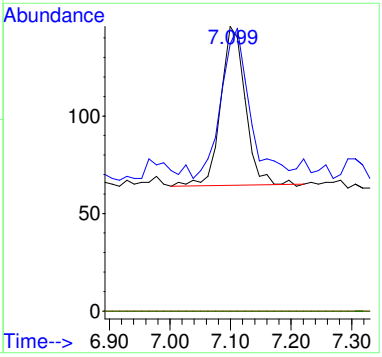


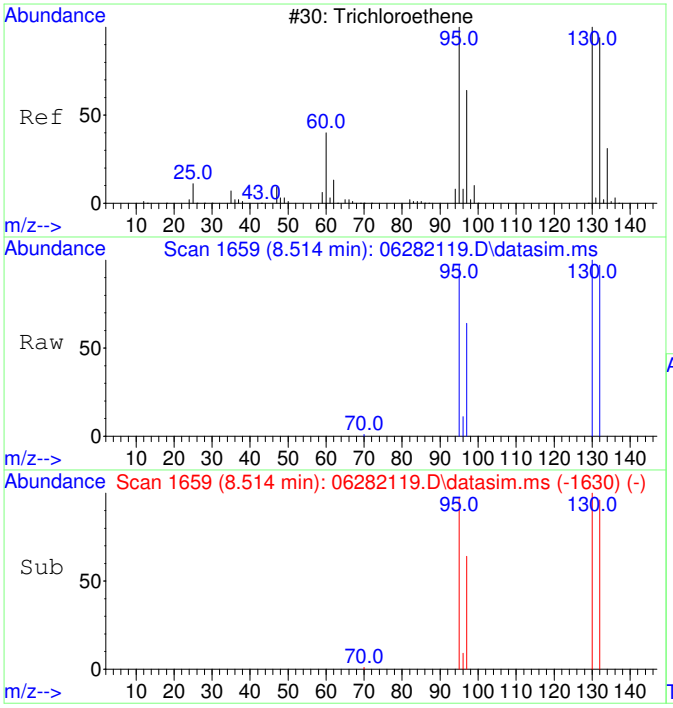


#8
Carbon tetrachloride
Concen: 27.82 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion:117 Resp: 228

Ion	Ratio	Lower	Upper
117	100		
119	110.5	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

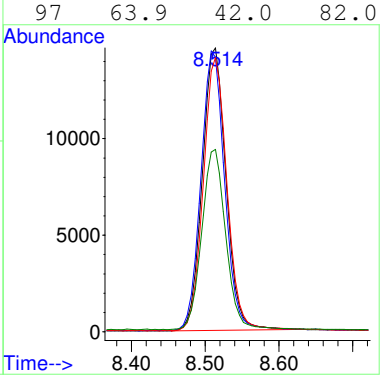


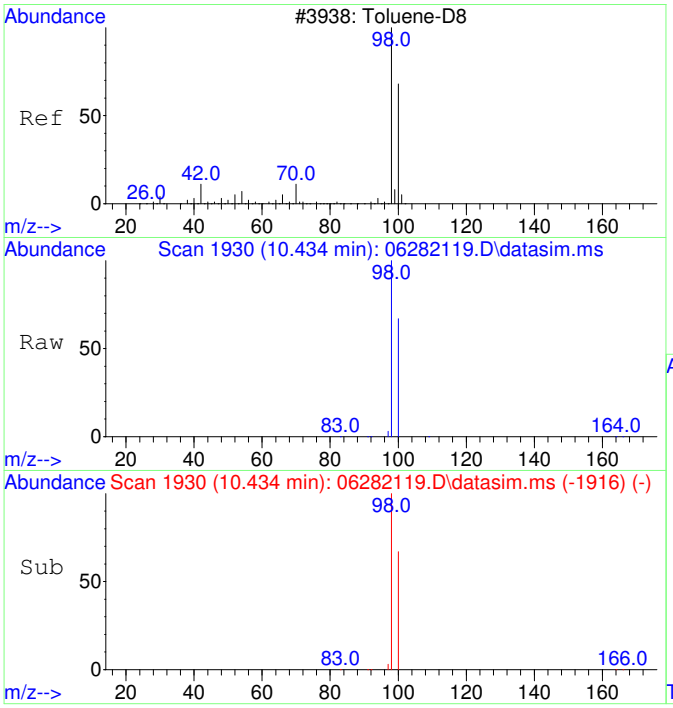


#11
Trichloroethene
Concen: 4328.92 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion:130 Resp: 32745

Ion	Ratio	Lower	Upper
130	100		
95	98.7	65.8	125.8
132	96.0	75.8	115.8
97	63.9	42.0	82.0

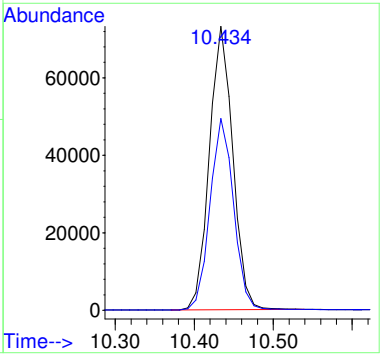


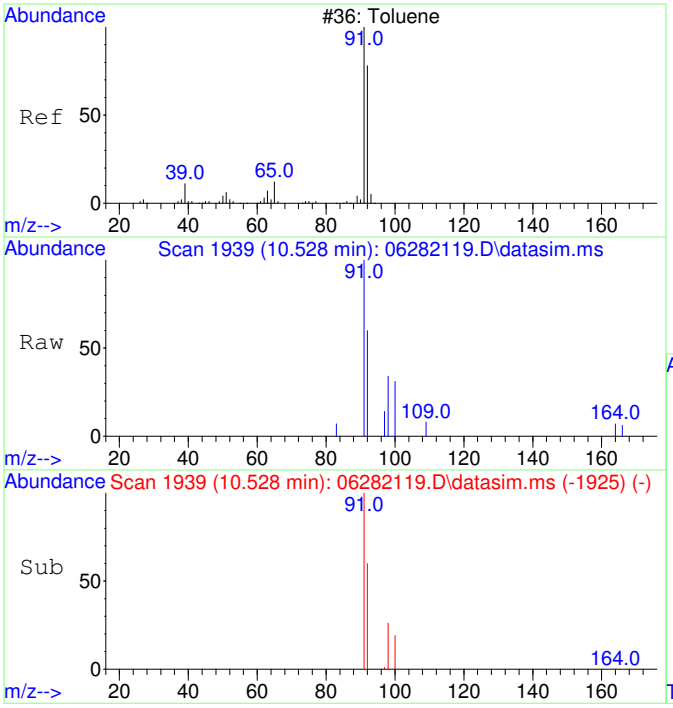


#12
Toluene-d8
Concen: 5044.77 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 98 Resp: 150708

Ion	Ratio	Lower	Upper
98	100		
100	67.5	37.3	97.3

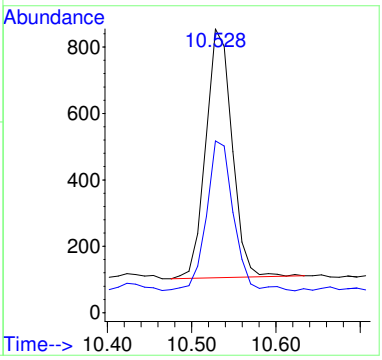


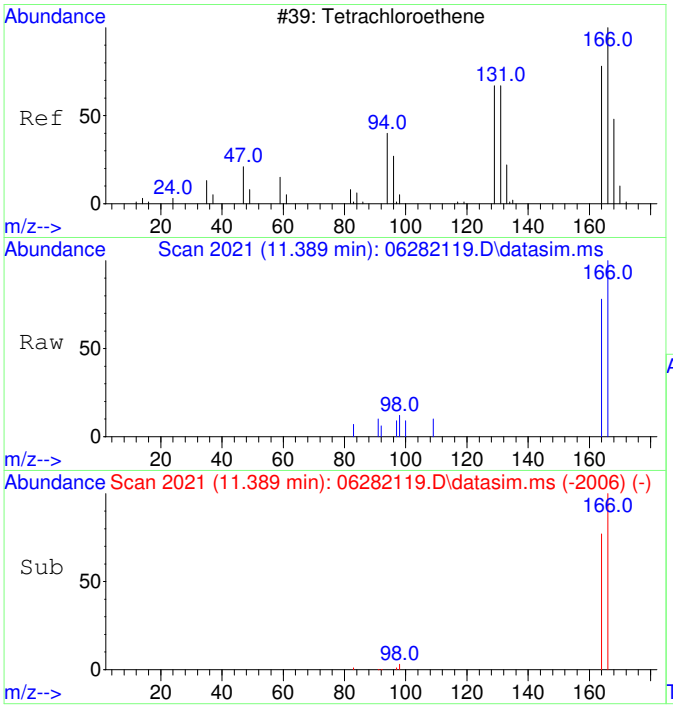


#13
Toluene
Concen: 41.89 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 91 Resp: 1629

Ion	Ratio	Lower	Upper
91	100		
92	61.6	30.2	90.2

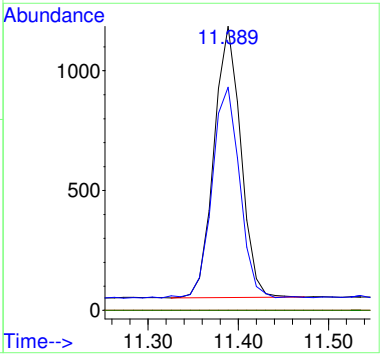


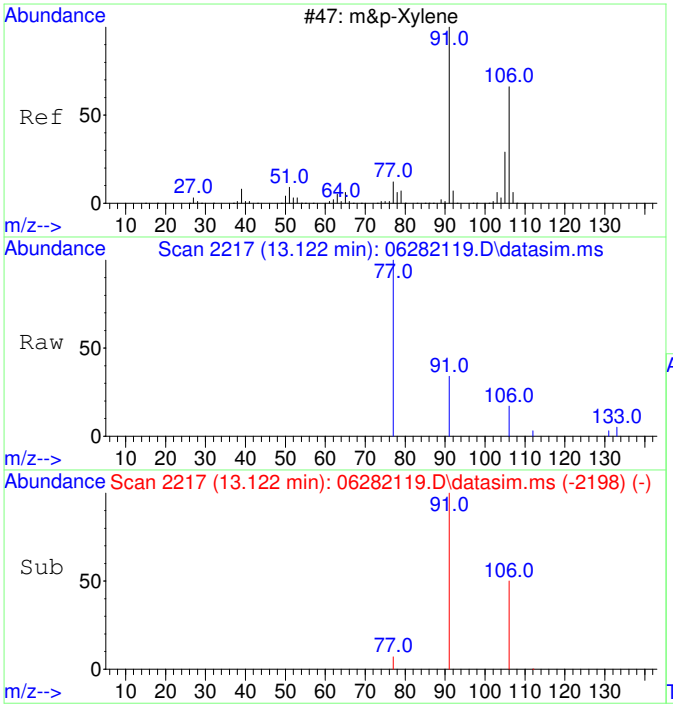


#15
Tetrachloroethene
Concen: 235.14 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion:166 Resp: 2339

Ion	Ratio	Lower	Upper
166	100		
164	79.6	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

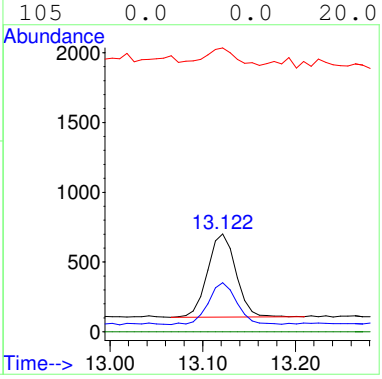


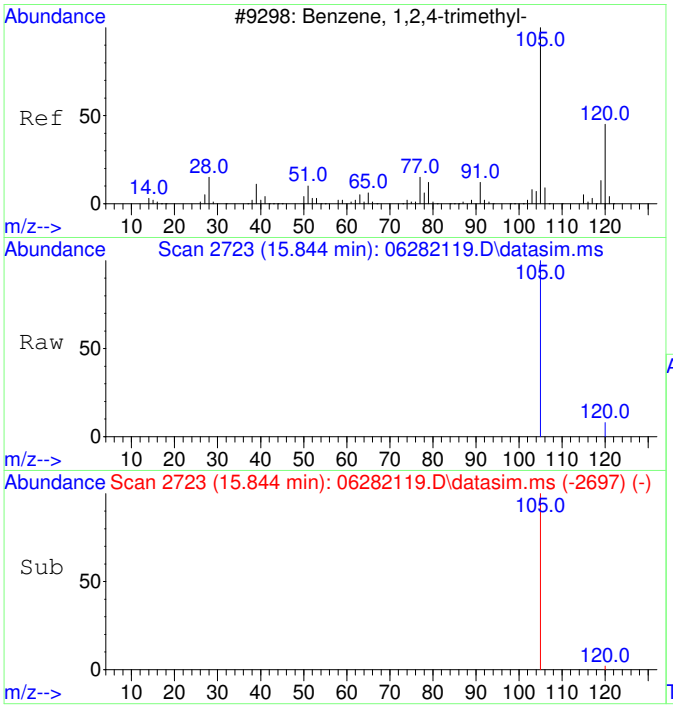


#19
m&p-Xylene
Concen: 31.95 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 91 Resp: 1257

Ion	Ratio	Lower	Upper
91	100		
106	50.2	21.4	81.4
77	21.2	0.0	42.7
105	0.0	0.0	20.0

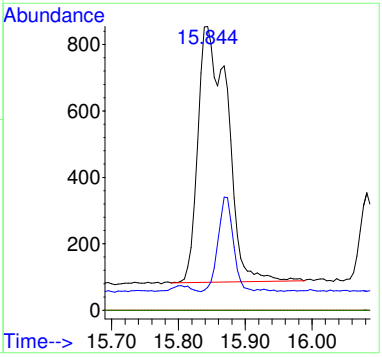


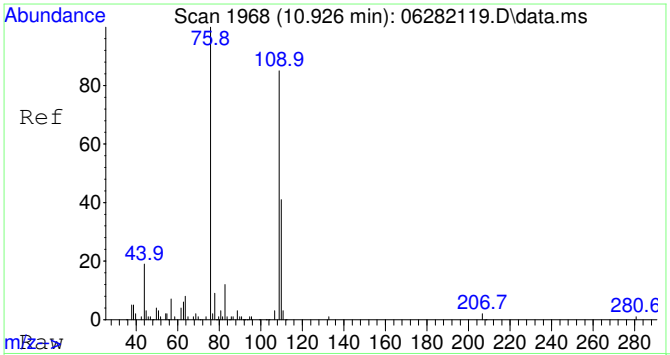


#23
1,2,4-Trimethylbenzene
Concen: 45.63 ug/L
RT: 15.844 min Scan# 2723
Delta R.T. -0.020 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion:105 Resp: 2375

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

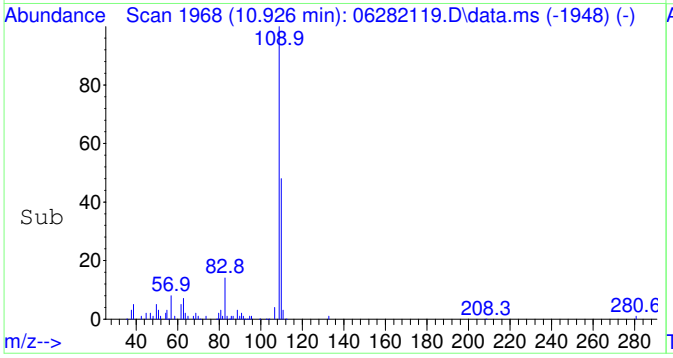


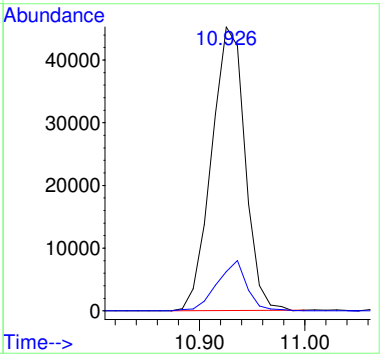


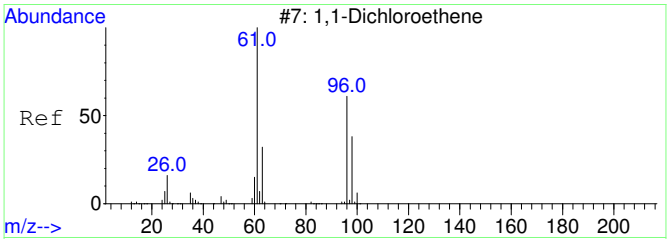
#25
2-Fluorotoluene SCAN
Concen: 4661.10 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion:109 Resp: 100058

Ion	Ratio	Lower	Upper
109	100		
83	15.7	0.0	44.5



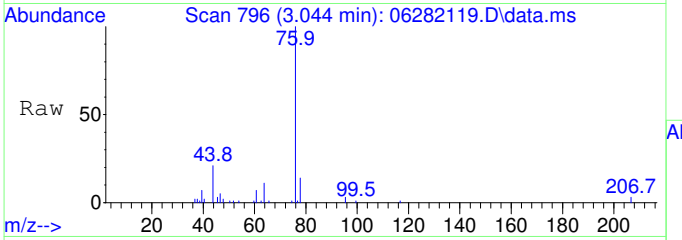


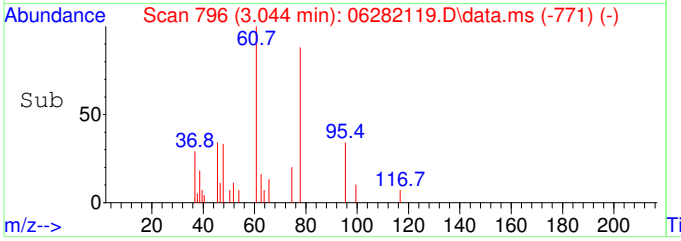


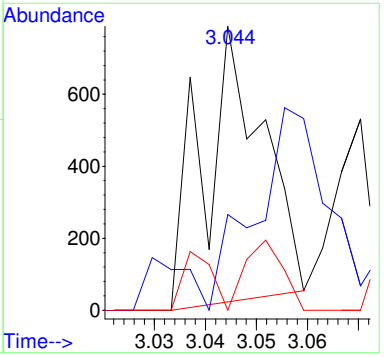
#26
1,1-Dichloroethene SCAN
Concen: 138.29 ug/L
RT: 3.044 min Scan# 796
Delta R.T. -0.007 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

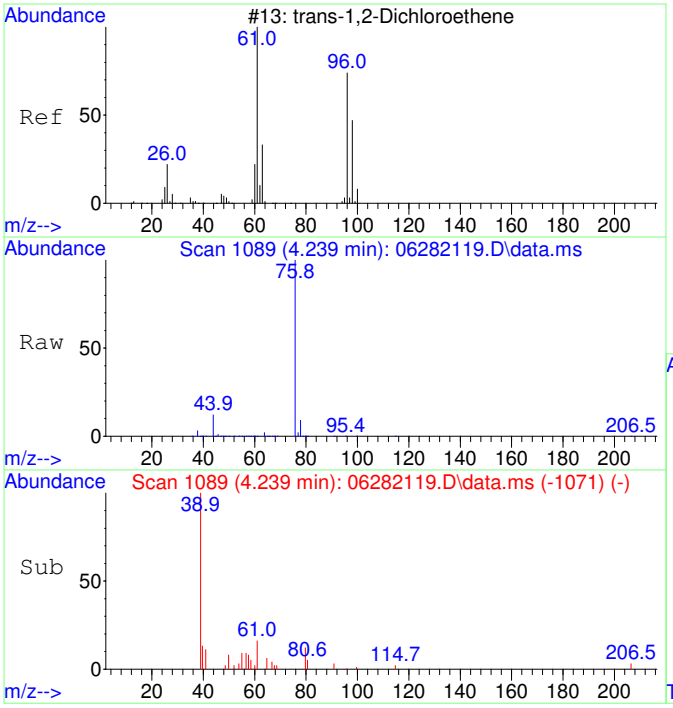
Tgt Ion: 61 Resp: 627

Ion	Ratio	Lower	Upper
61	100		
96	13.2	33.0	93.0#
98	10.4	12.5	72.5#





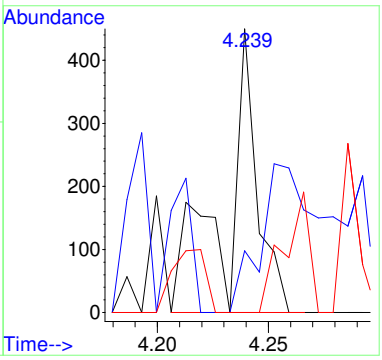


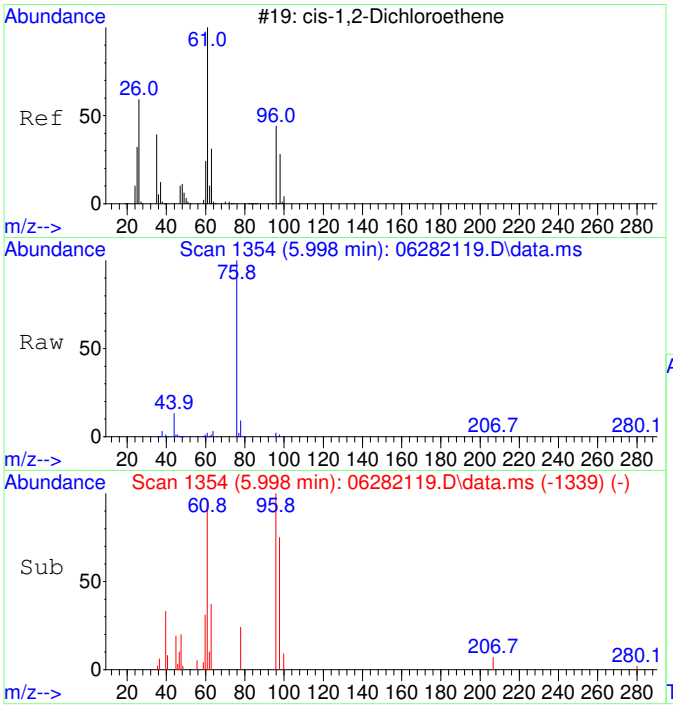


#27
trans-1,2-Dichloroethene SCAN
Concen: 93.37 ug/L
RT: 4.239 min Scan# 1089
Delta R.T. 0.020 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 61 Resp: 458

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	109.3#
98	22.9	24.0	84.0#

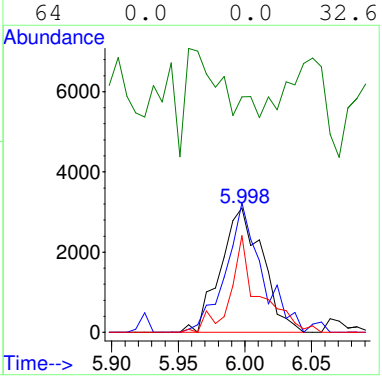


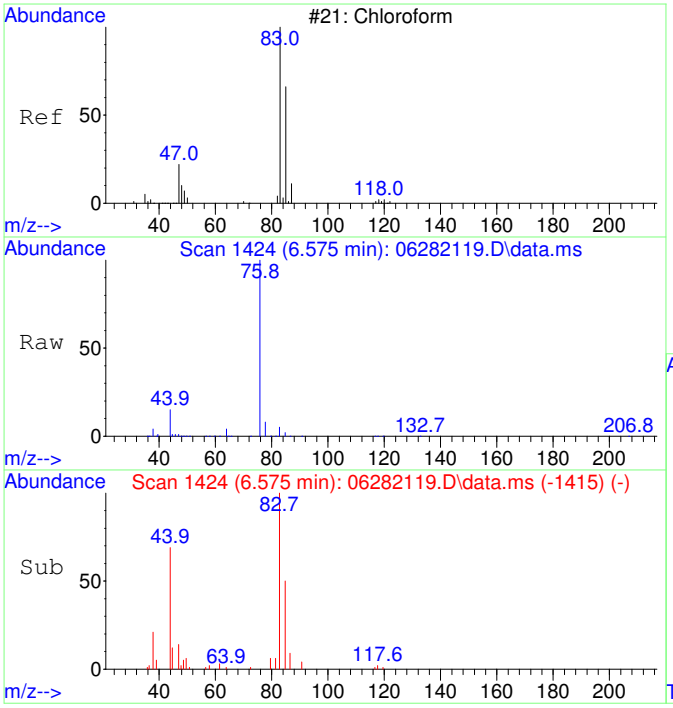


#29
cis-1,2-Dichloroethene SCAN
Concen: 1021.57 ug/L
RT: 5.998 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 61 Resp: 6775

Ion	Ratio	Lower	Upper
61	100		
96	92.3	36.9	96.9
98	53.0	12.1	72.1
64	0.0	0.0	32.6

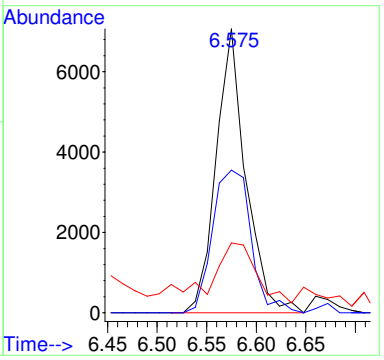


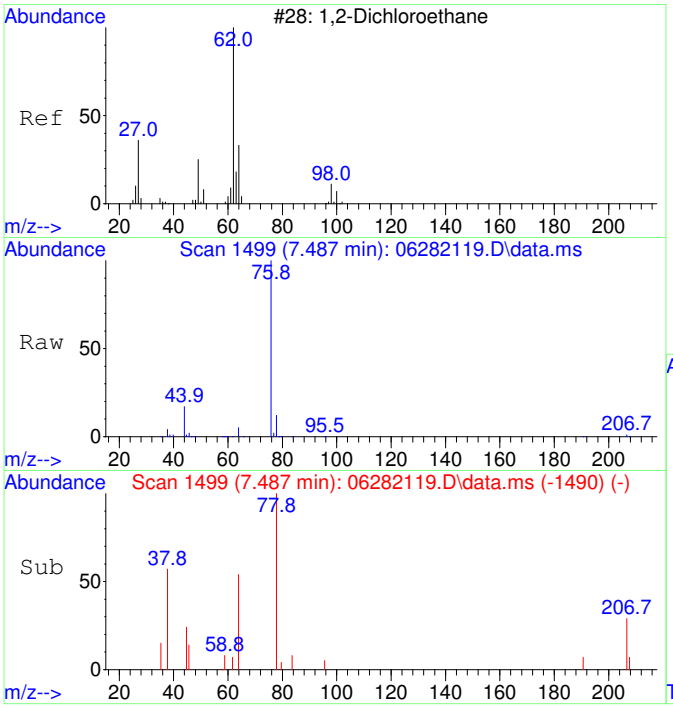


#30
Chloroform SCAN
Concen: 2099.59 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 83 Resp: 14726

Ion	Ratio	Lower	Upper
83	100		
85	65.3	27.1	87.1
47	22.9	7.5	67.5

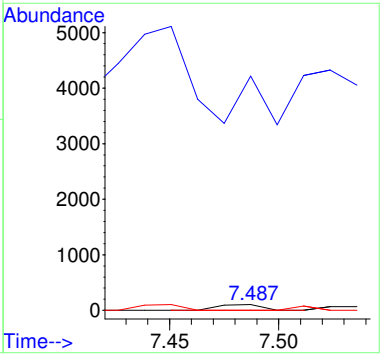


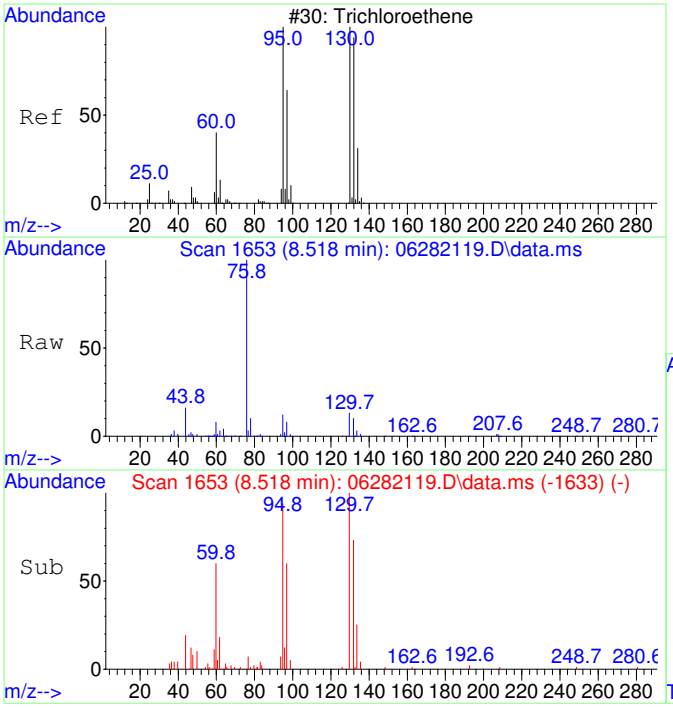


#34
1,2-Dichloroethane SCAN
Concen: 28.34 ug/L
RT: 7.487 min Scan# 1499
Delta R.T. 0.012 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 62 Resp: 147

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

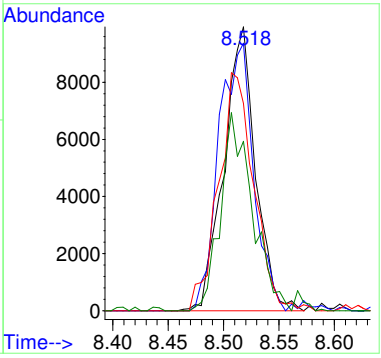


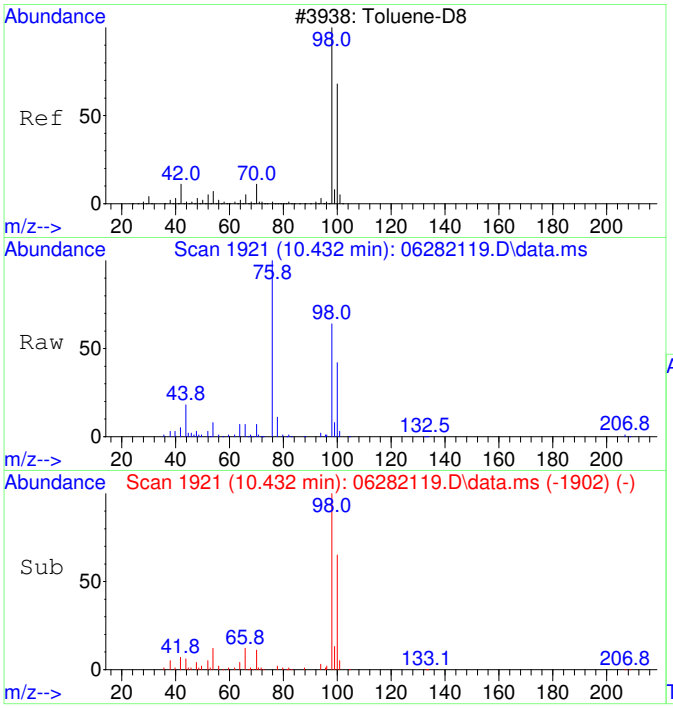


#35
Trichloroethene SCAN
Concen: 4717.15 ug/L
RT: 8.518 min Scan# 1653
Delta R.T. 0.011 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion:130 Resp: 19783

Ion	Ratio	Lower	Upper
130	100		
95	103.9	60.0	120.0
132	93.5	54.3	114.3
97	70.0	24.6	84.6

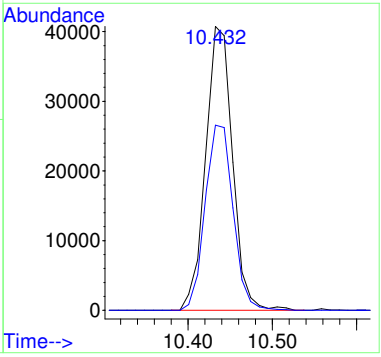


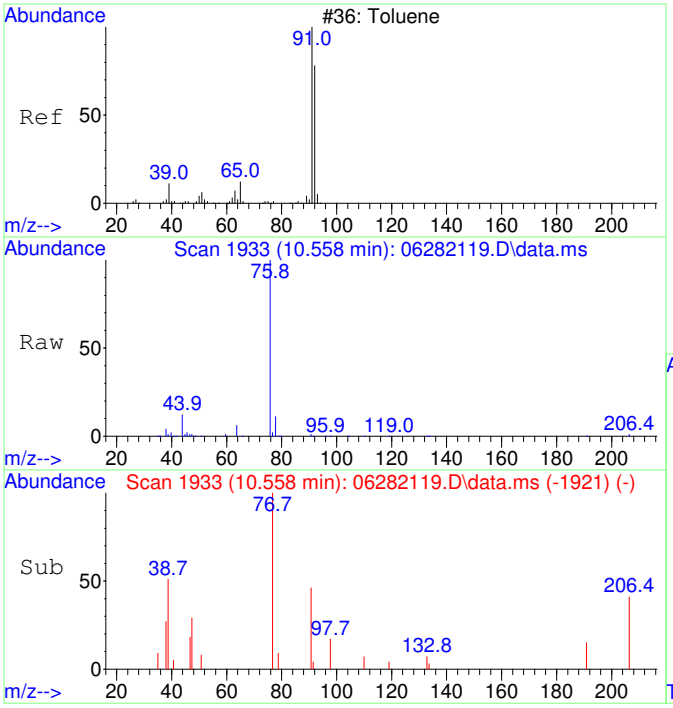


#36
Toluene-d8 SCAN
Concen: 4868.30 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 98 Resp: 90641

Ion	Ratio	Lower	Upper
98	100		
100	67.7	36.1	96.1

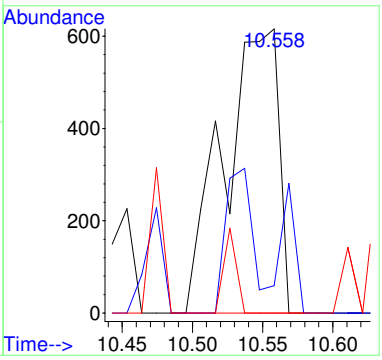


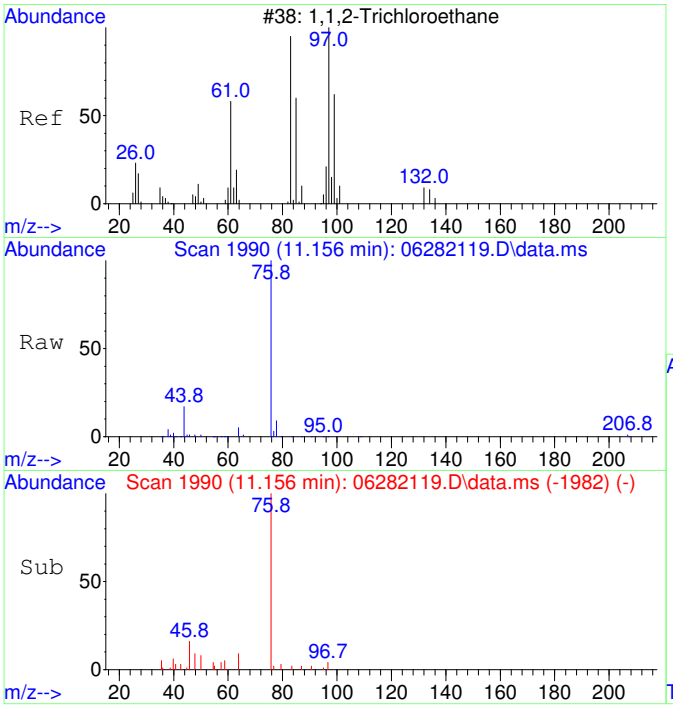


#37
Toluene SCAN
Concen: 69.18 ug/L
RT: 10.558 min Scan# 1933
Delta R.T. 0.021 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 91 Resp: 1667

Ion	Ratio	Lower	Upper
91	100		
92	8.4	26.5	86.5#
65	0.0	0.0	40.6

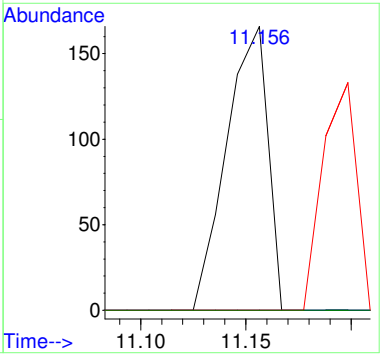


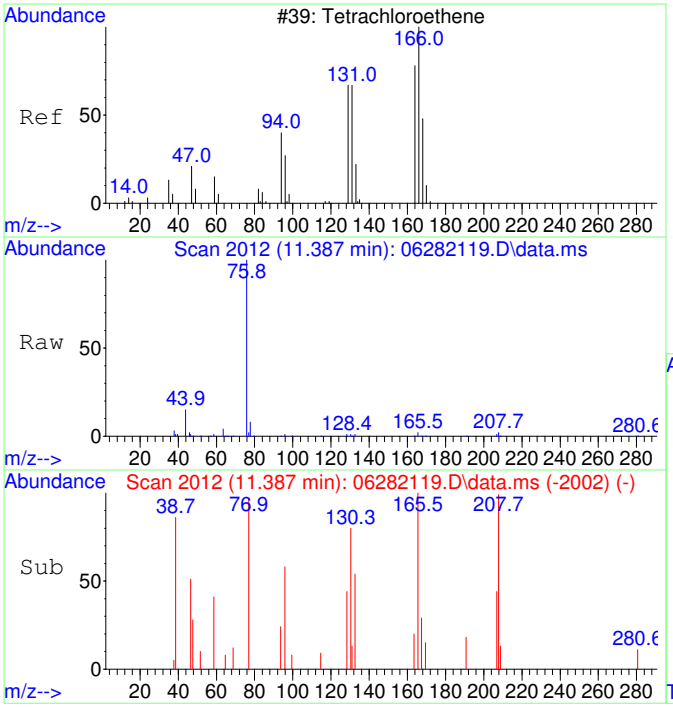


#38
1,1,2-Trichloroethane SCAN
Concen: 39.54 ug/L
RT: 11.156 min Scan# 1990
Delta R.T. -0.021 min
Lab File: 06282119.D
Acq: 28 Jun 2021 16:52

Tgt Ion: 97 Resp: 227

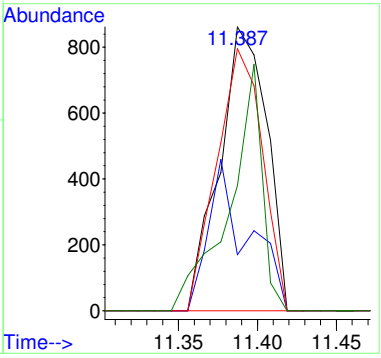
Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#






```
#39
Tetrachloroethene SCAN
Concen:  310.71 ug/L
RT:  11.387 min  Scan# 2012
Delta R.T.  0.000 min
Lab File:   06282119.D
Acq: 28 Jun 2021  16:52

Tgt Ion:166 Resp:    1803
Ion  Ratio  Lower  Upper
166  100
164    0.0   53.9  113.9#
131   89.1   45.6  105.6
129   59.5   51.3  111.3
```



2106037-12

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282120.D
Acq On : 28 Jun 2021 17:18
InstName : AG5975C
Operator : TD
Sample : 2106037-12
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 29 06:07:01 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

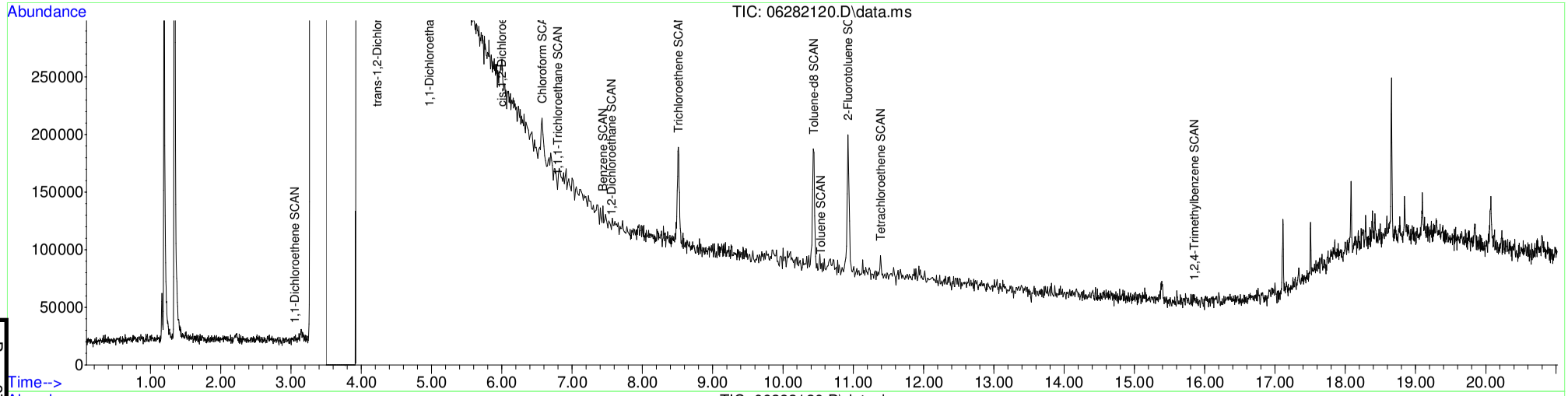
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	150726	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	130686	5061.80 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.24%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	1471	224.07 ug/L #	99
3] trans-1,2-Dichloroethene	4.214	61	837	148.15 ug/L #	100
4] 1,1-Dichloroethane	4.964	63	1444	186.35 ug/L #	82
5] cis-1,2-Dichloroethene	5.992	61	16496	2221.74 ug/L #	100
6] Chloroform	6.564	83	41753	4778.17 ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	896	110.20 ug/L #	93
8] Carbon tetrachloride	7.099	117	182	25.69 ug/L #	98
11] Trichloroethene	8.513	130	57716	8828.80 ug/L	98
13] Toluene	10.528	91	7162	213.12 ug/L	99
15] Tetrachloroethene	11.388	166	4396	511.35 ug/L #	98
19] m&p-Xylene	13.121	91	986	29.00 ug/L #	78
23] 1,2,4-Trimethylbenzene	15.843	105	2377	52.84 ug/L #	30
25) 2-Fluorotoluene SCAN	10.925	109	88753	4784.00 ug/L	99
26) 1,1-Dichloroethene SCAN	3.048	61	694	177.11 ug/L	79
27) trans-1,2-Dichloroethe...	4.219	61	410	96.72 ug/L #	1
28) 1,1-Dichloroethane SCAN	4.969	63	602	105.96 ug/L #	64
29) cis-1,2-Dichloroethene...	5.997	61	11338	1978.18 ug/L	78
30) Chloroform SCAN	6.575	83	27192	4486.03 ug/L	93
31) 1,1,1-Trichloroethane ...	6.794	97	209	36.90 ug/L #	28
33) Benzene SCAN	7.438	78	2510	176.52 ug/L	98
34) 1,2-Dichloroethane SCAN	7.560	62	131	29.22 ug/L #	36
35) Trichloroethene SCAN	8.512	130	33594	9268.72 ug/L	88
36) Toluene-d8 SCAN	10.432	98	78862	4901.07 ug/L	100
37) Toluene SCAN	10.537	91	4163	199.90 ug/L #	55
39) Tetrachloroethene SCAN	11.387	166	2901	578.46 ug/L #	48
47) 1,2,4-Trimethylbenzene...	15.852	105	1524	58.84 ug/L #	1

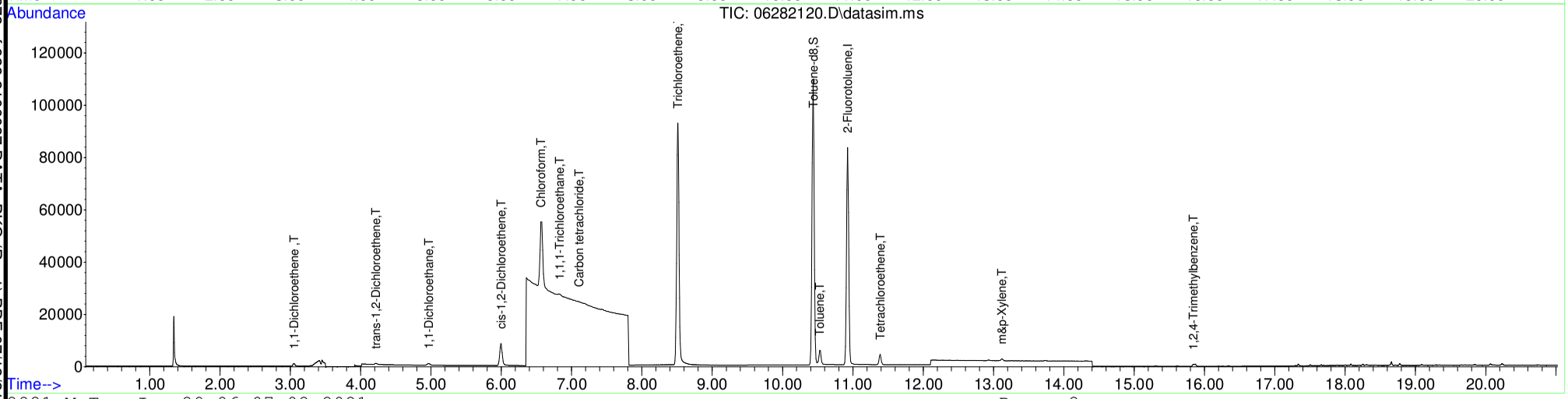
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282120.D
Acq On : 28 Jun 2021 17:18
InstName : AG5975C
Operator : TD
Sample : 2106037-12
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 29 06:07:01 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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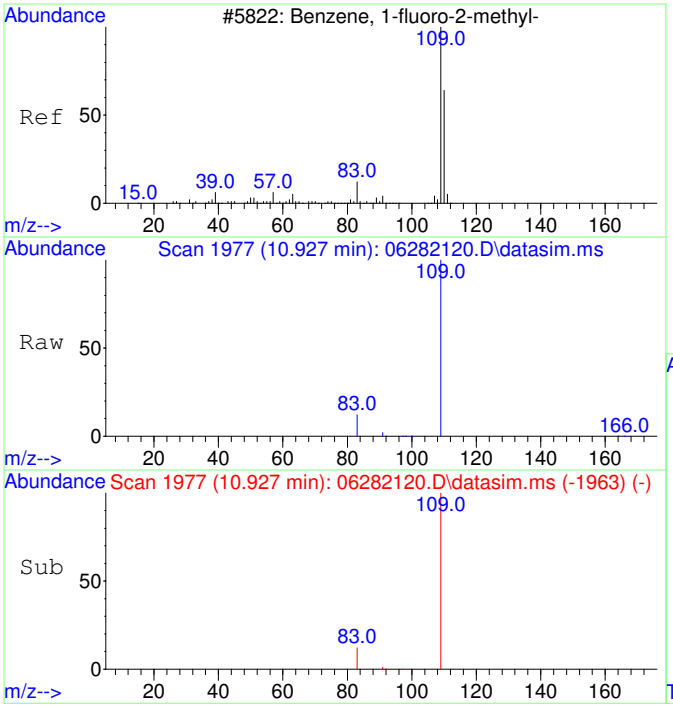
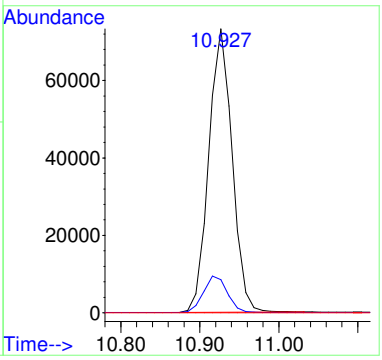
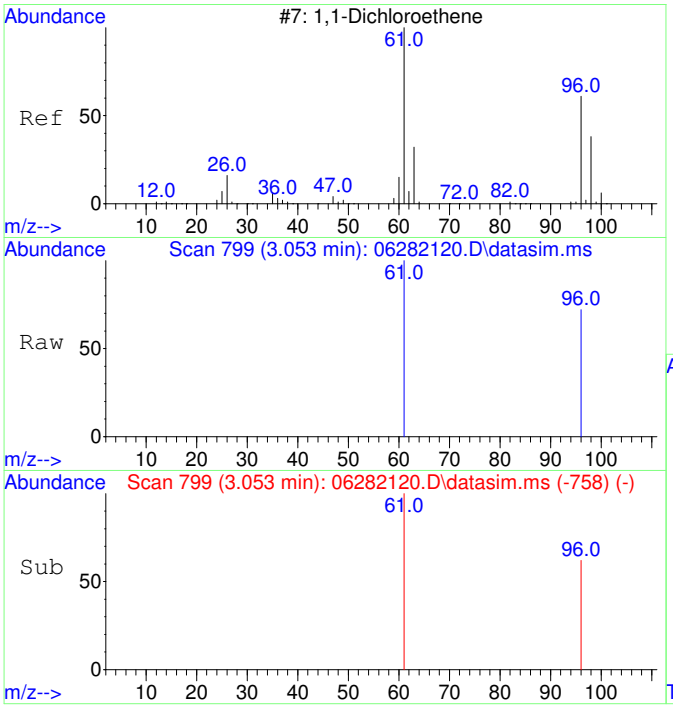


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion:109 Resp: 150726

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

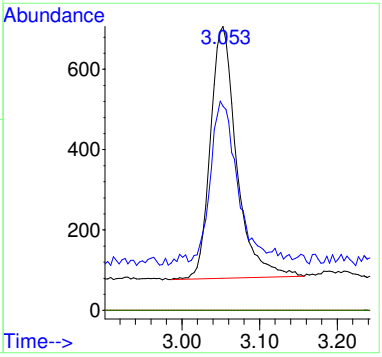


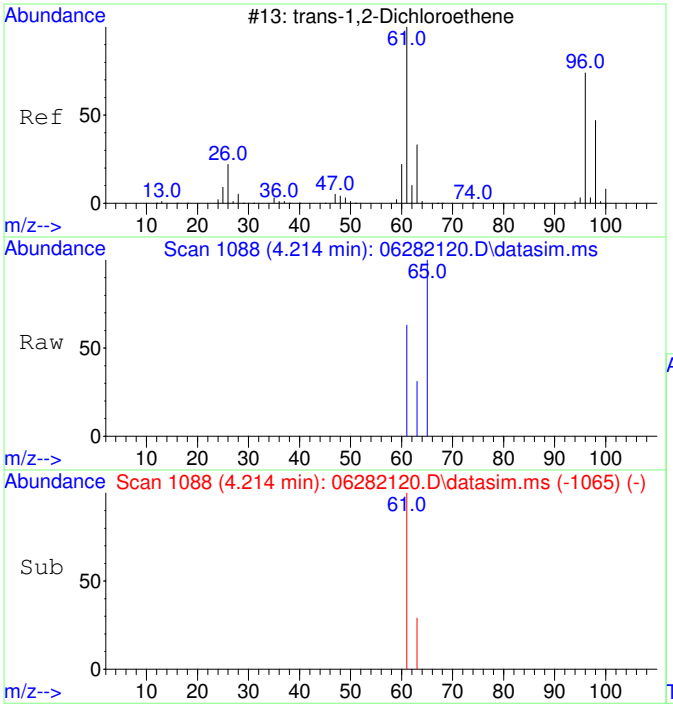


#2
1,1-Dichloroethene
Concen: 224.07 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 61 Resp: 1471

Ion	Ratio	Lower	Upper
61	100		
96	64.4	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

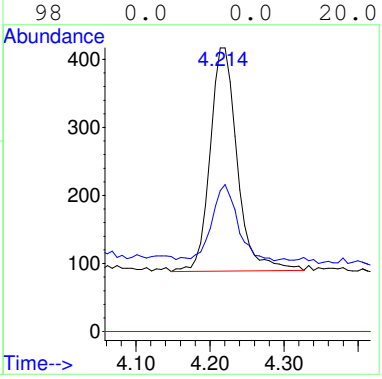


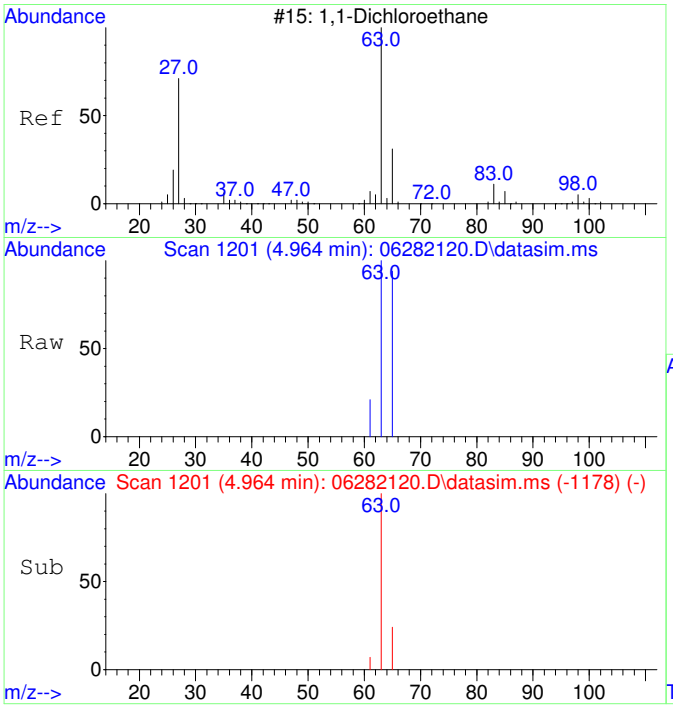


#3
trans-1,2-Dichloroethene
Concen: 148.15 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 61 Resp: 837

Ion	Ratio	Lower	Upper
61	100		
63	32.6	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

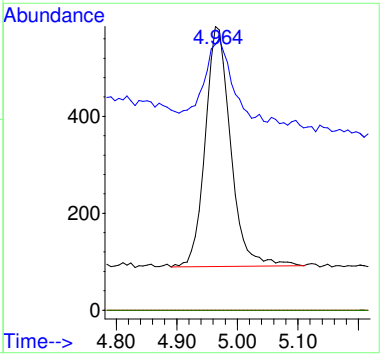


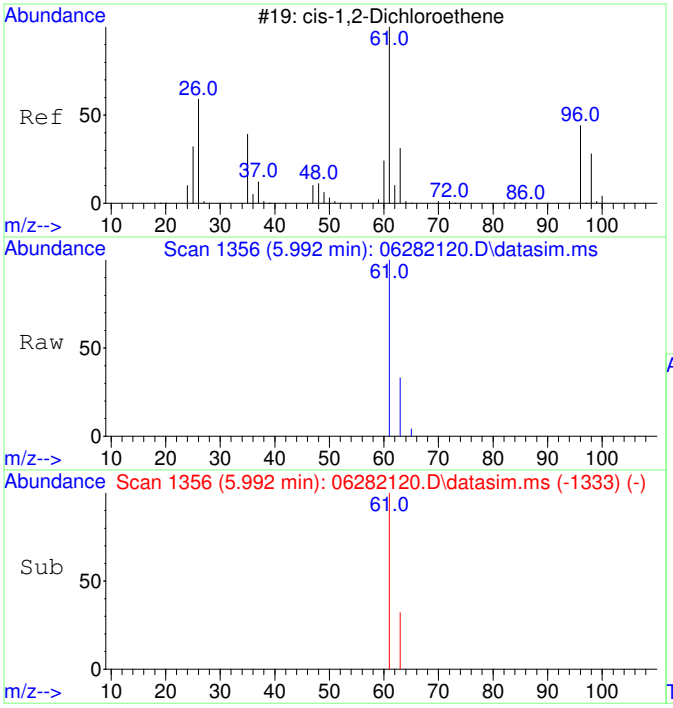


#4
1,1-Dichloroethane
Concen: 186.35 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 63 Resp: 1444

Ion	Ratio	Lower	Upper
63	100		
65	41.1	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

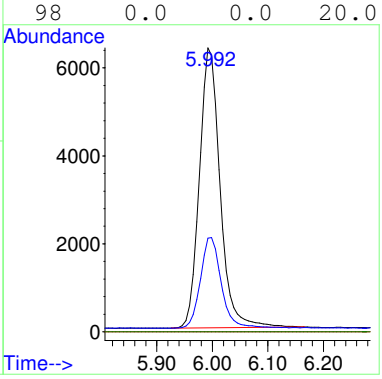


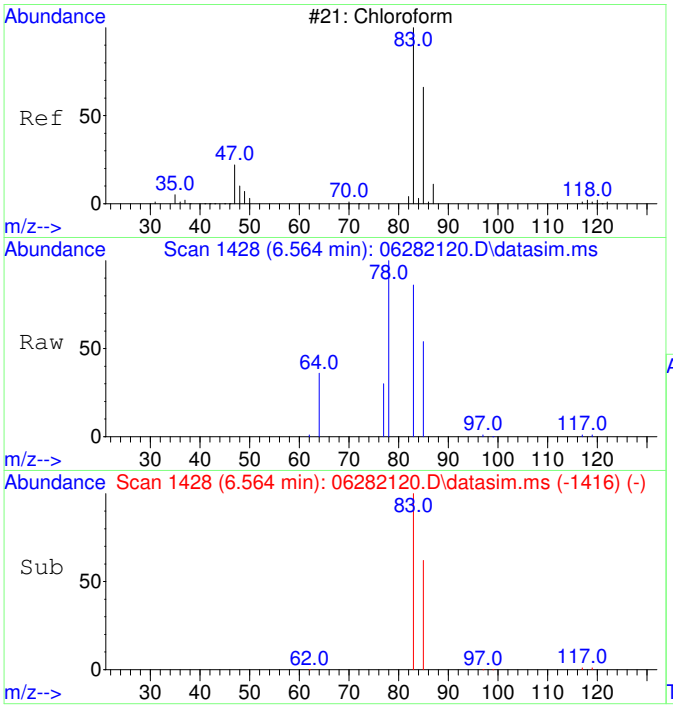


#5
cis-1,2-Dichloroethene
Concen: 2221.74 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 61 Resp: 16496

Ion	Ratio	Lower	Upper
61	100		
63	32.6	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

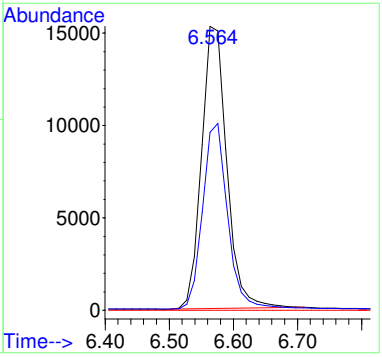


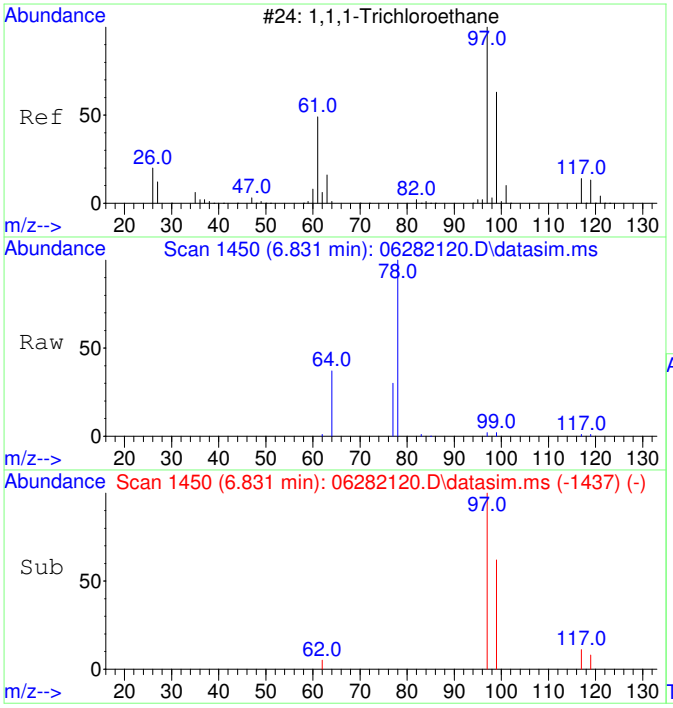


#6
Chloroform
Concen: 4778.17 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 83 Resp: 41753

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.5	94.5
87	0.0	0.0	20.0

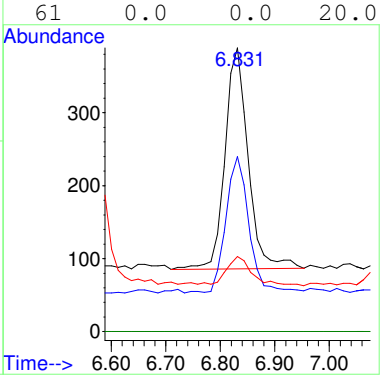


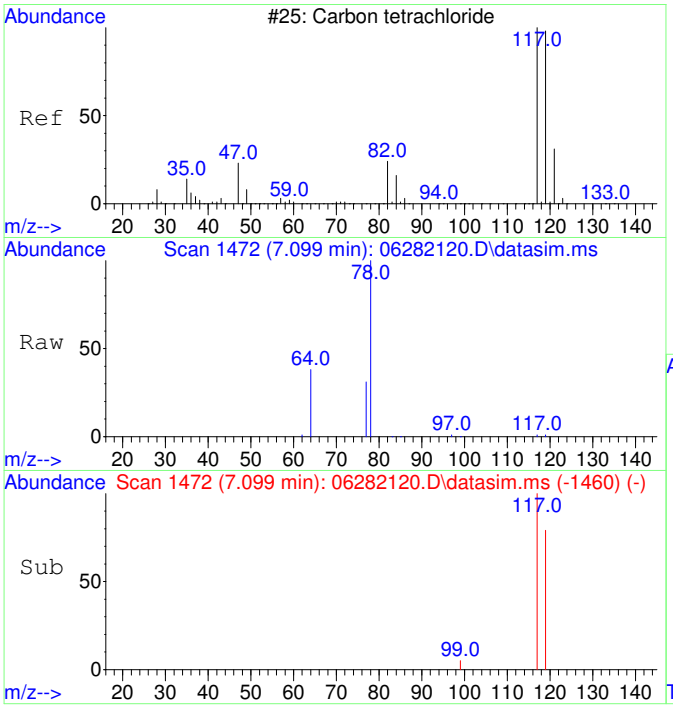


#7
1,1,1-Trichloroethane
Concen: 110.20 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 97 Resp: 896

Ion	Ratio	Lower	Upper
97	100		
99	58.9	34.4	94.4
117	14.7	0.0	42.8
61	0.0	0.0	20.0

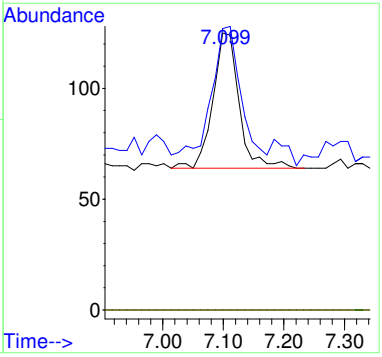


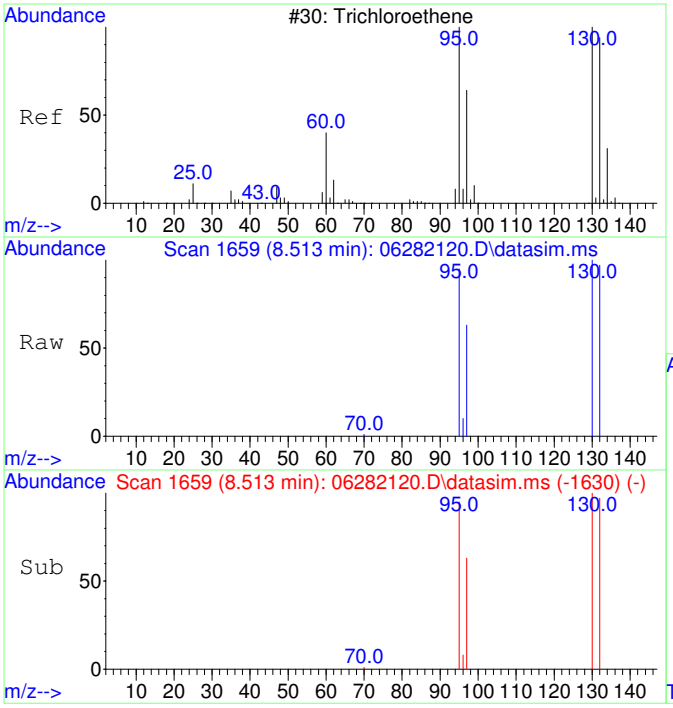


#8
Carbon tetrachloride
Concen: 25.69 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion:117 Resp: 182

Ion	Ratio	Lower	Upper
117	100		
119	98.4	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

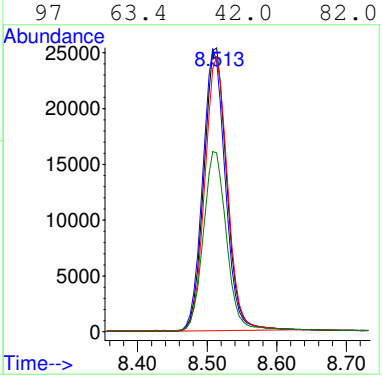


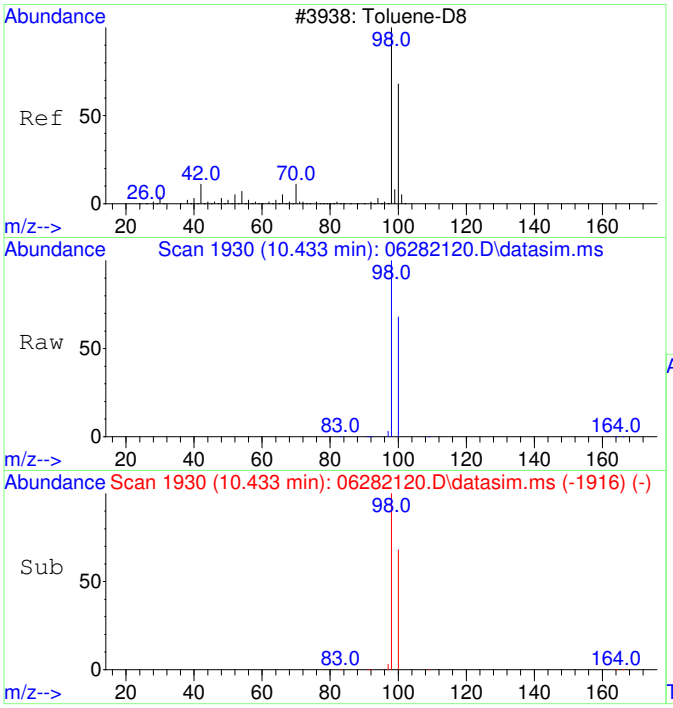


#11
Trichloroethene
Concen: 8828.80 ug/L
RT: 8.513 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion:130 Resp: 57716

Ion	Ratio	Lower	Upper
130	100		
95	98.6	65.8	125.8
132	96.1	75.8	115.8
97	63.4	42.0	82.0

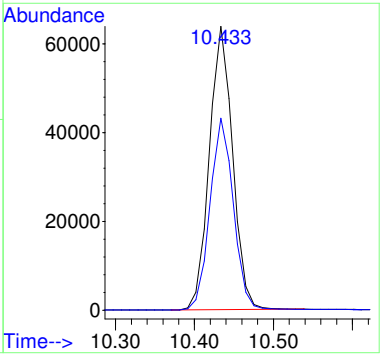


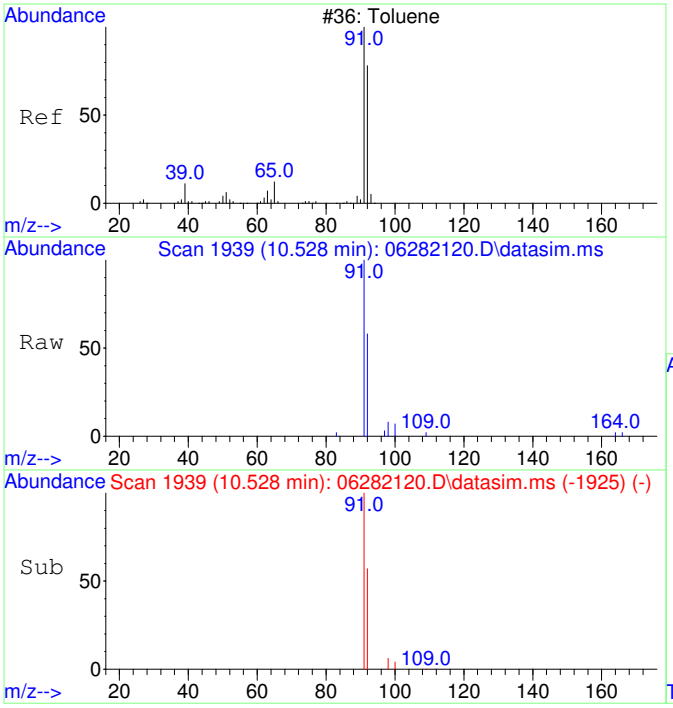


#12
Toluene-d8
Concen: 5061.80 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 98 Resp: 130686

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.3	97.3

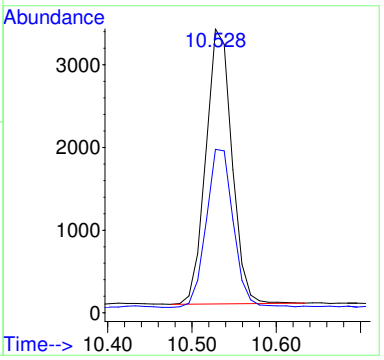


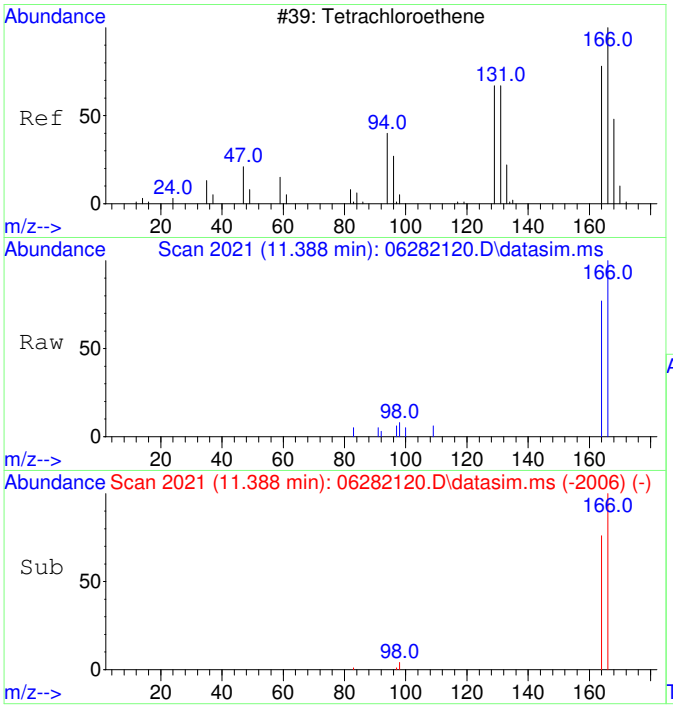


#13
Toluene
Concen: 213.12 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 91 Resp: 7162

Ion	Ratio	Lower	Upper
91	100		
92	59.3	30.2	90.2

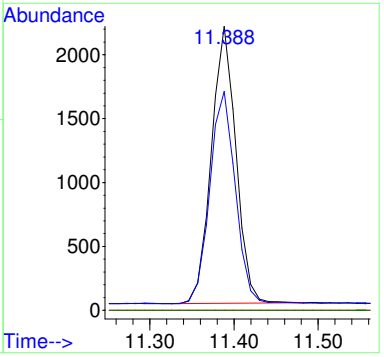


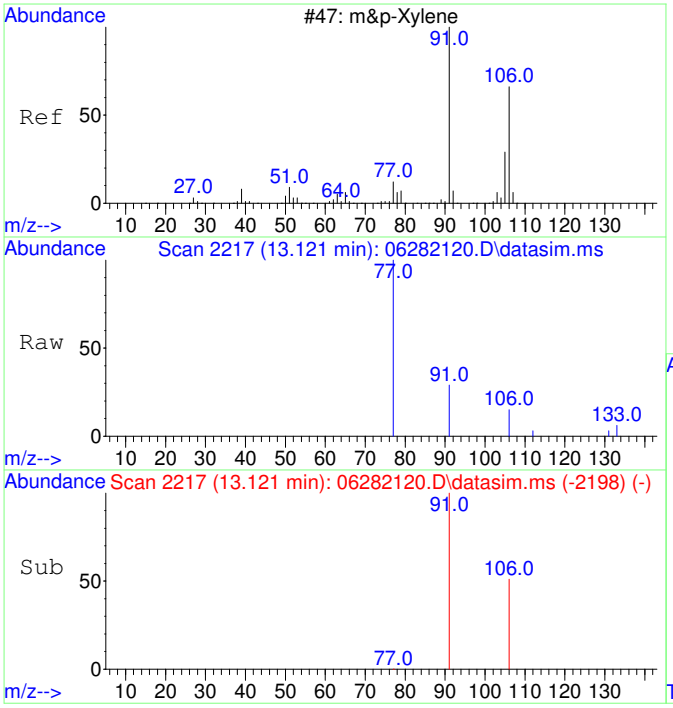


#15
Tetrachloroethene
Concen: 511.35 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.010 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion:166 Resp: 4396

Ion	Ratio	Lower	Upper
166	100		
164	79.2	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

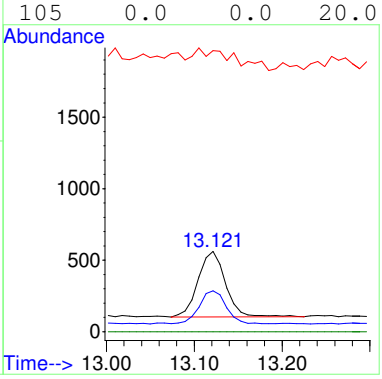


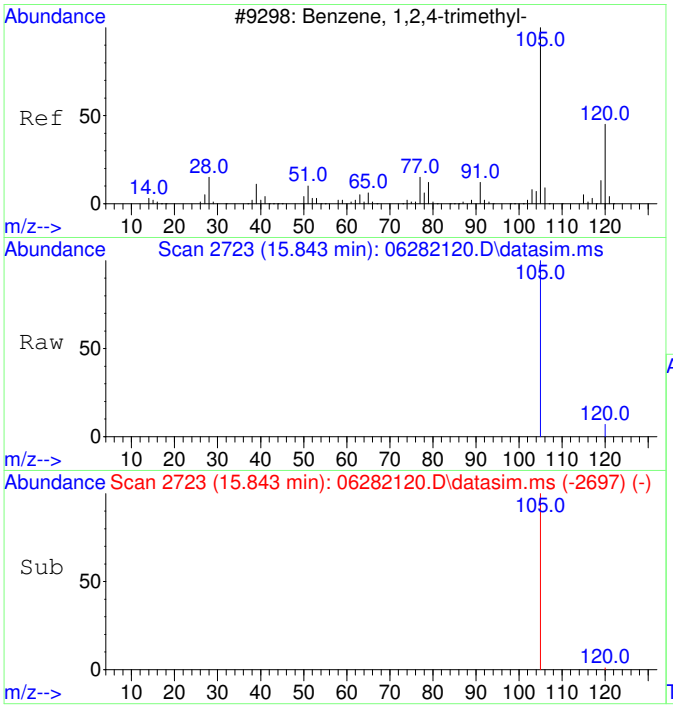


#19
m&p-Xylene
Concen: 29.00 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 91 Resp: 986

Ion	Ratio	Lower	Upper
91	100		
106	49.0	21.4	81.4
77	50.1	0.0	42.7#
105	0.0	0.0	20.0

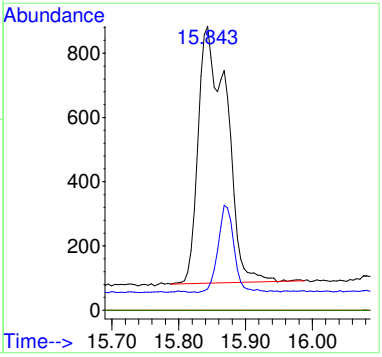


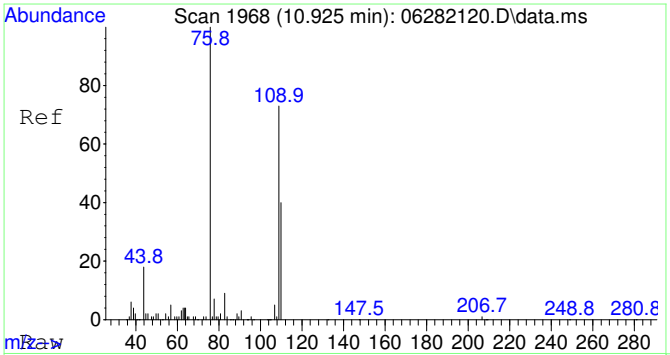


#23
1,2,4-Trimethylbenzene
Concen: 52.84 ug/L
RT: 15.843 min Scan# 2723
Delta R.T. -0.020 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion:105 Resp: 2377

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

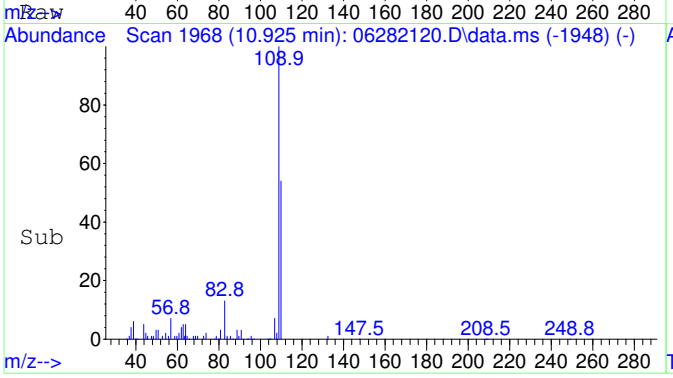


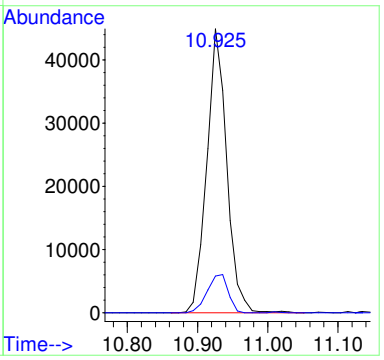


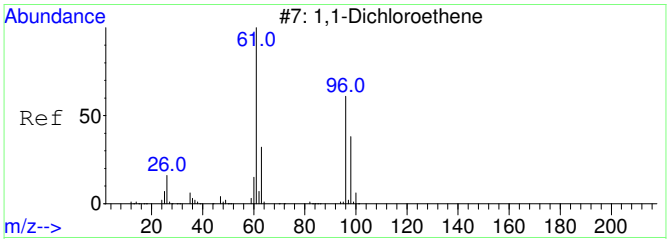
#25
2-Fluorotoluene SCAN
Concen: 4784.00 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion:109 Resp: 88753

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	44.5



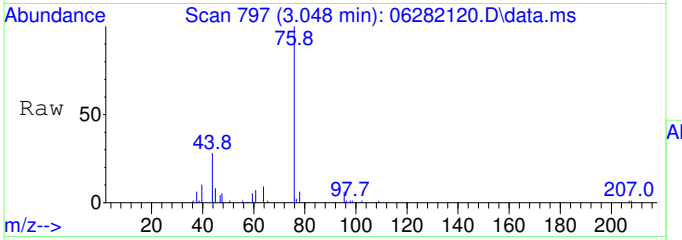


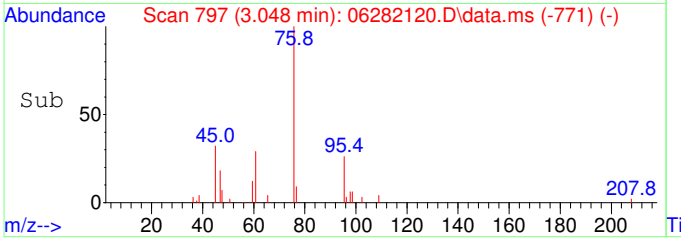


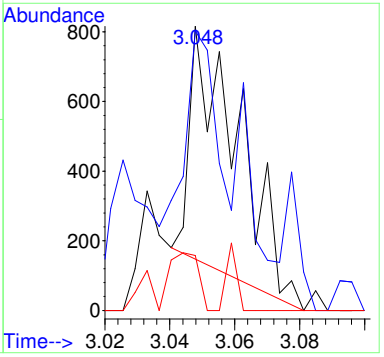
#26
1,1-Dichloroethene SCAN
Concen: 177.11 ug/L
RT: 3.048 min Scan# 797
Delta R.T. -0.004 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

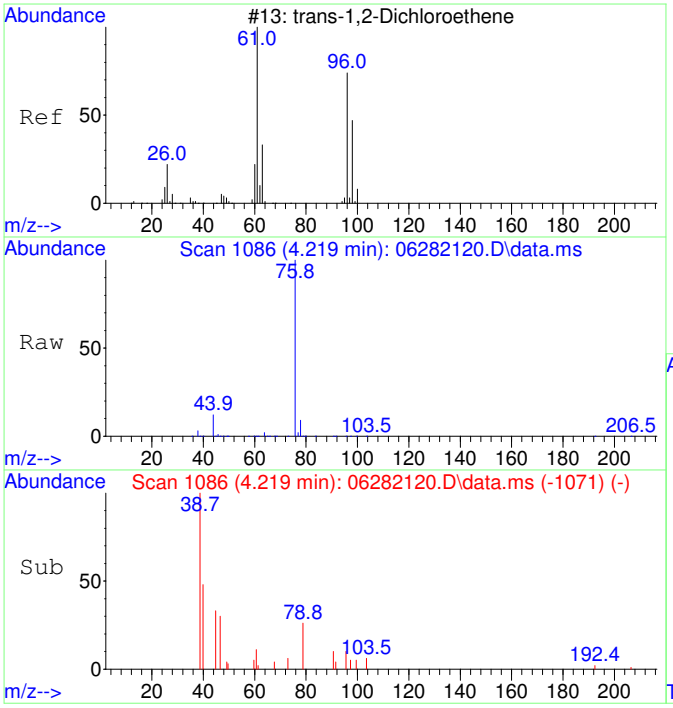
Tgt Ion: 61 Resp: 694

Ion	Ratio	Lower	Upper
61	100		
96	71.6	33.0	93.0
98	20.5	12.5	72.5





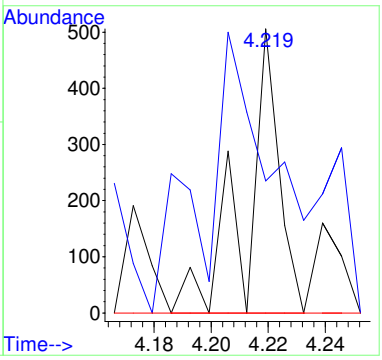


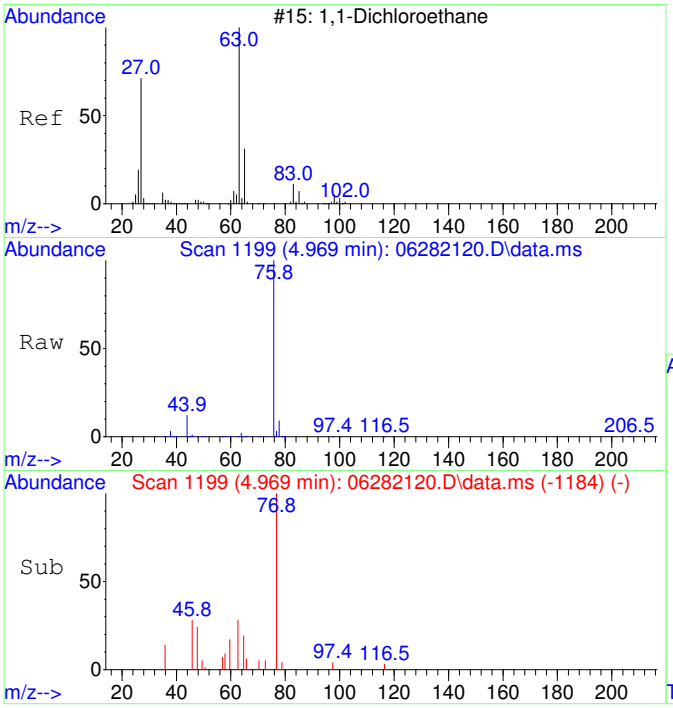


#27
trans-1,2-Dichloroethene SCAN
Concen: 96.72 ug/L
RT: 4.219 min Scan# 1086
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 61 Resp: 410

Ion	Ratio	Lower	Upper
61	100		
96	248.3	49.3	109.3#
98	0.0	24.0	84.0#

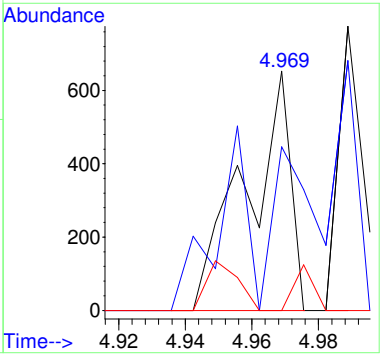


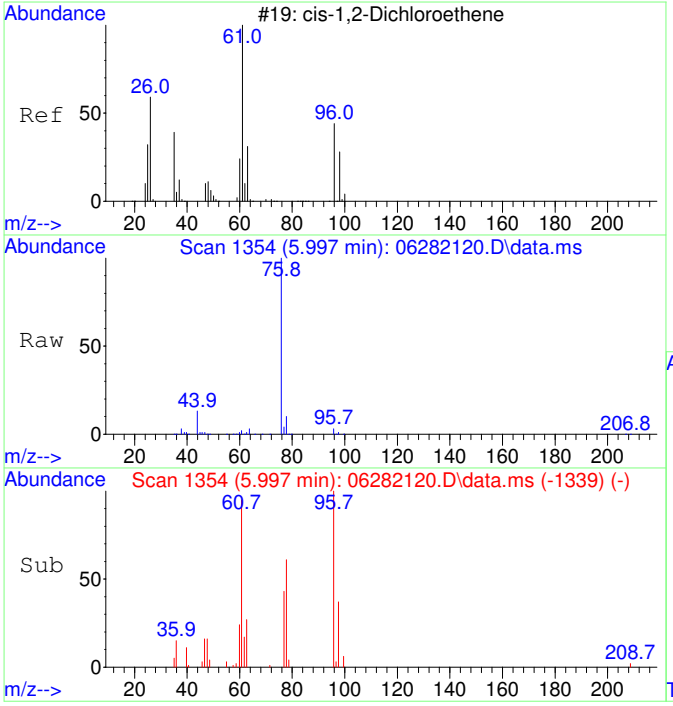


#28
1,1-Dichloroethane SCAN
Concen: 105.96 ug/L
RT: 4.969 min Scan# 1199
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 63 Resp: 602

Ion	Ratio	Lower	Upper
63	100		
65	45.5	0.0	57.3
83	0.0	0.0	46.2

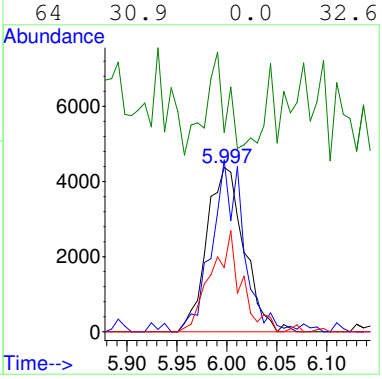


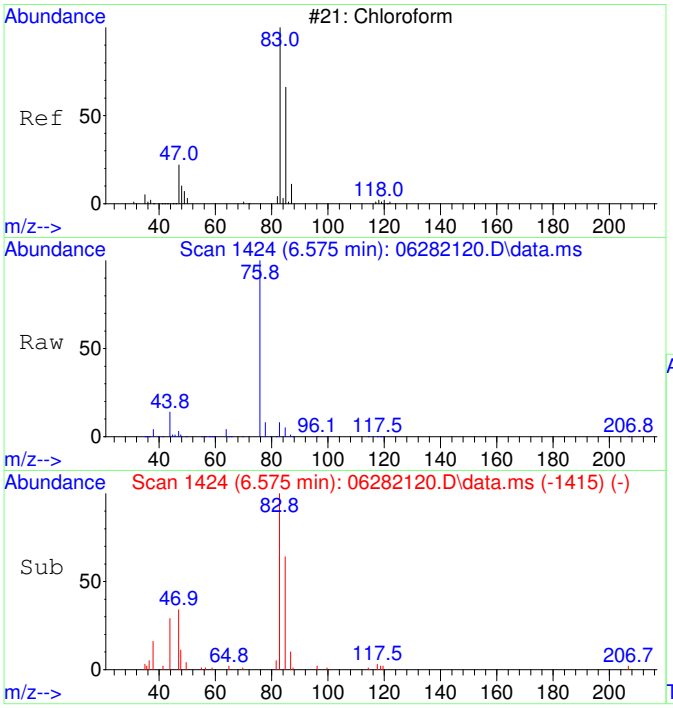


#29
cis-1,2-Dichloroethene SCAN
Concen: 1978.18 ug/L
RT: 5.997 min Scan# 1354
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 61 Resp: 11338

Ion	Ratio	Lower	Upper
61	100		
96	86.8	36.9	96.9
98	50.1	12.1	72.1
64	30.9	0.0	32.6

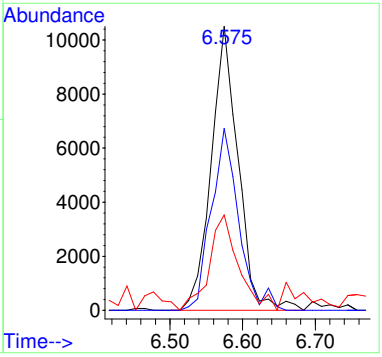


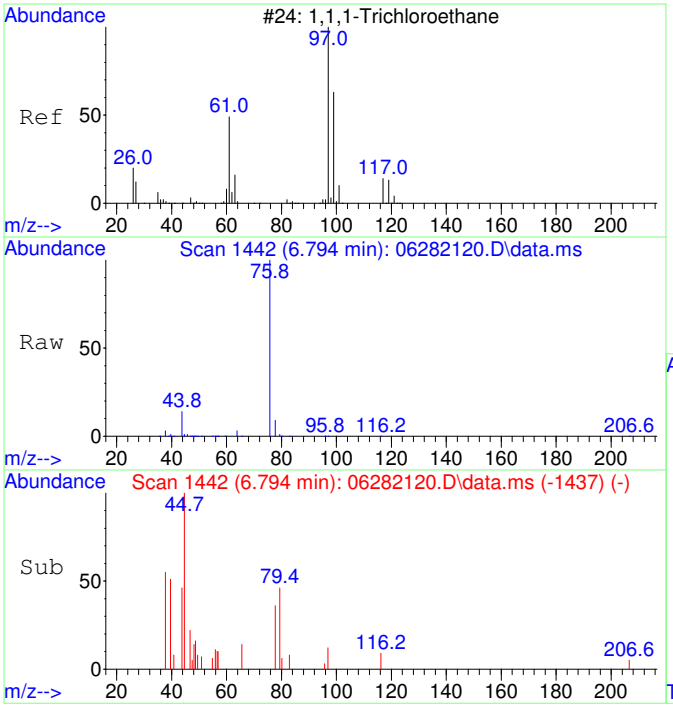


#30
Chloroform SCAN
Concen: 4486.03 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 83 Resp: 27192

Ion	Ratio	Lower	Upper
83	100		
85	65.1	27.1	87.1
47	36.4	7.5	67.5

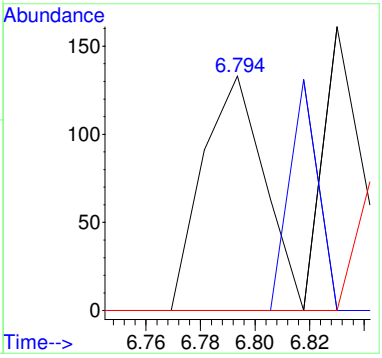


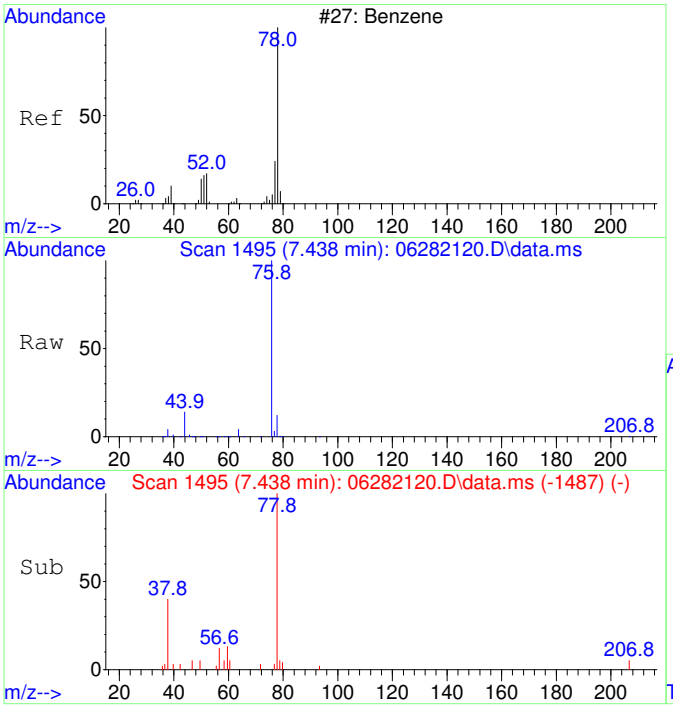


#31
1,1,1-Trichloroethane SCAN
Concen: 36.90 ug/L
RT: 6.794 min Scan# 1442
Delta R.T. -0.037 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 97 Resp: 209

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

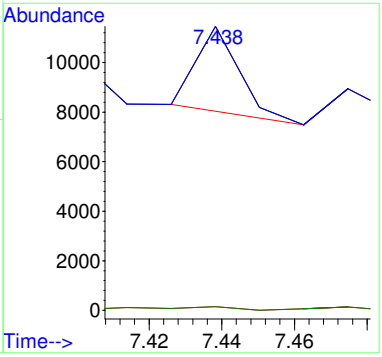


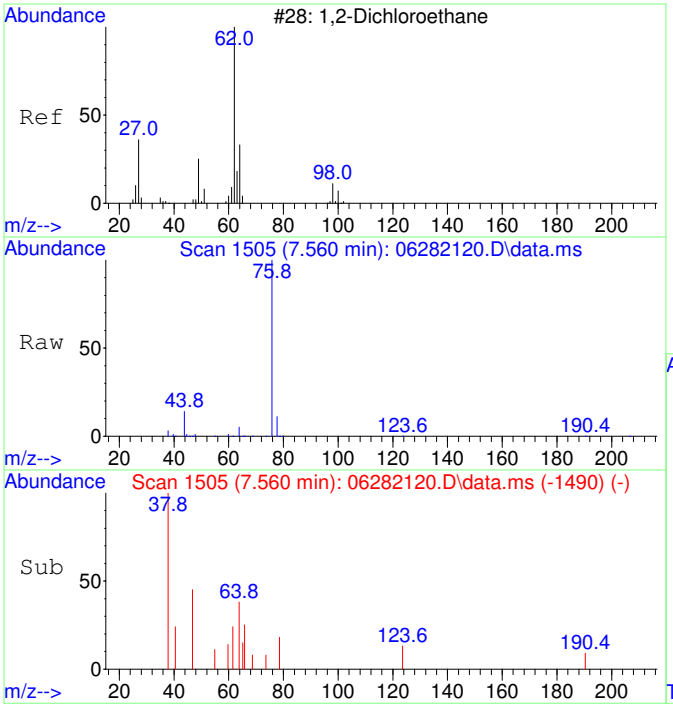


#33
Benzene SCAN
Concen: 176.52 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 78 Resp: 2510

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	13.8	0.0	46.7
51	13.8	0.0	46.7

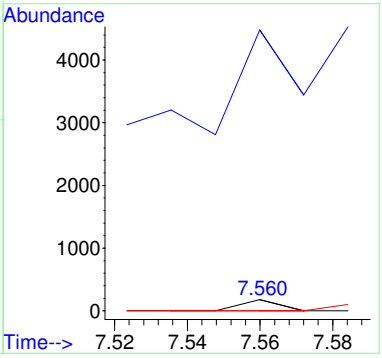


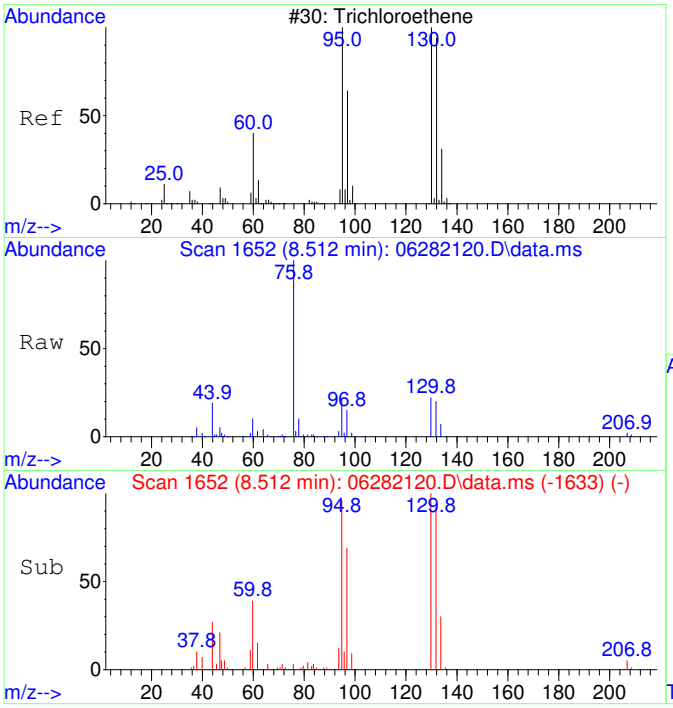


#34
1,2-Dichloroethane SCAN
Concen: 29.22 ug/L
RT: 7.560 min Scan# 1505
Delta R.T. 0.085 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 62 Resp: 131

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

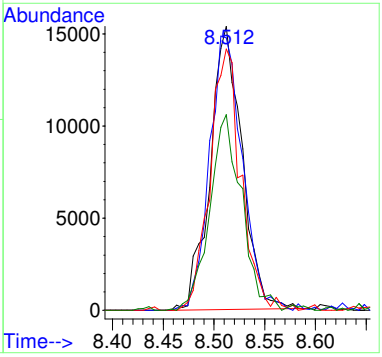


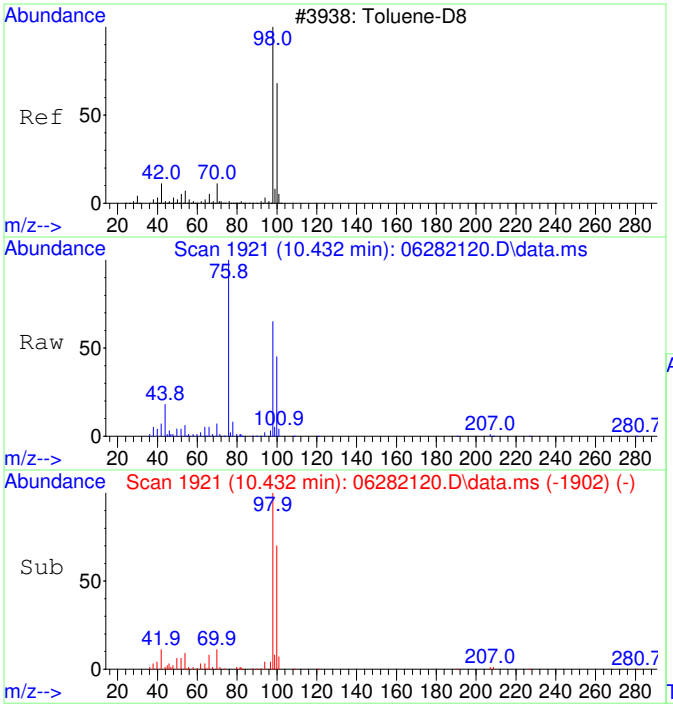


#35
Trichloroethene SCAN
Concen: 9268.72 ug/L
RT: 8.512 min Scan# 1652
Delta R.T. 0.005 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion:130 Resp: 33594

Ion	Ratio	Lower	Upper
130	100		
95	100.5	60.0	120.0
132	90.1	54.3	114.3
97	69.4	24.6	84.6

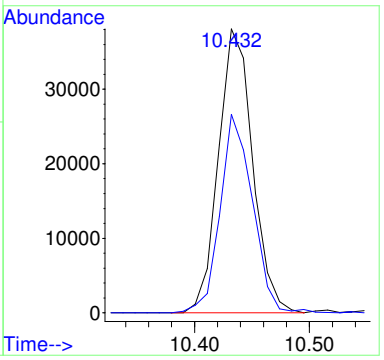


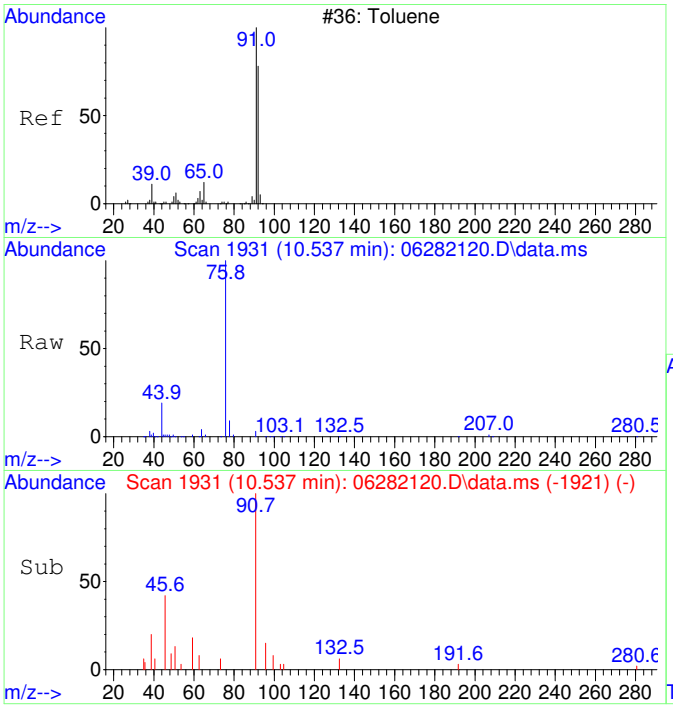


#36
Toluene-d8 SCAN
Concen: 4901.07 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 98 Resp: 78862

Ion	Ratio	Lower	Upper
98	100		
100	66.3	36.1	96.1

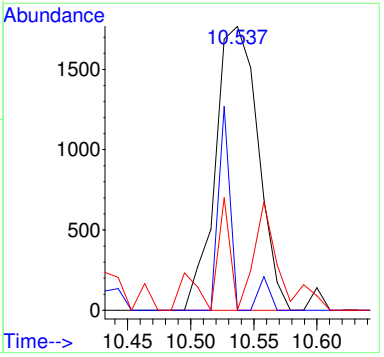


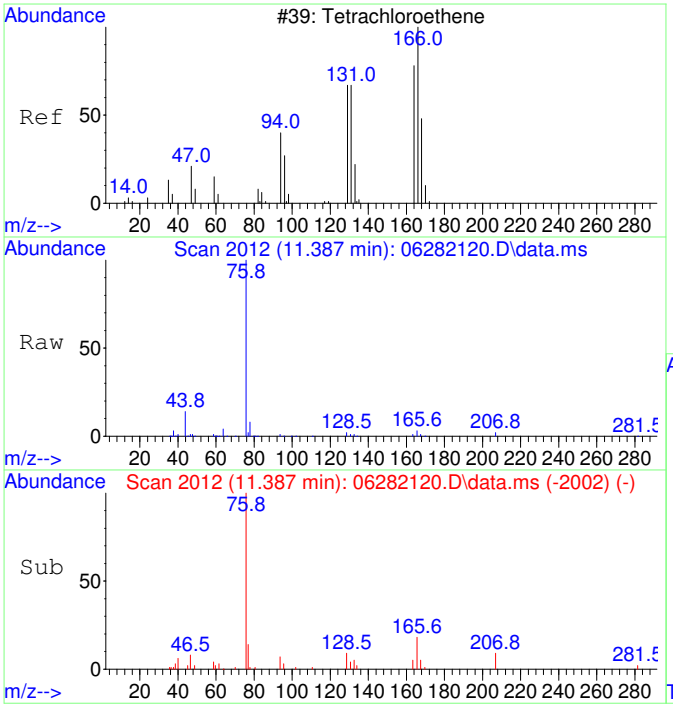


#37
Toluene SCAN
Concen: 199.90 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion: 91 Resp: 4163

Ion	Ratio	Lower	Upper
91	100		
92	19.2	26.5	86.5#
65	16.3	0.0	40.6

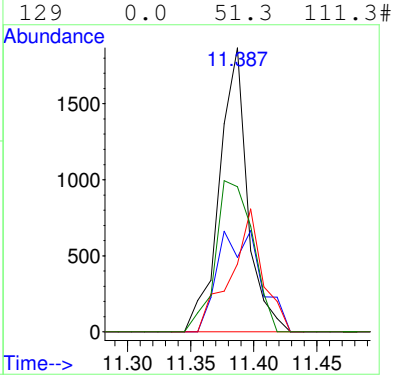


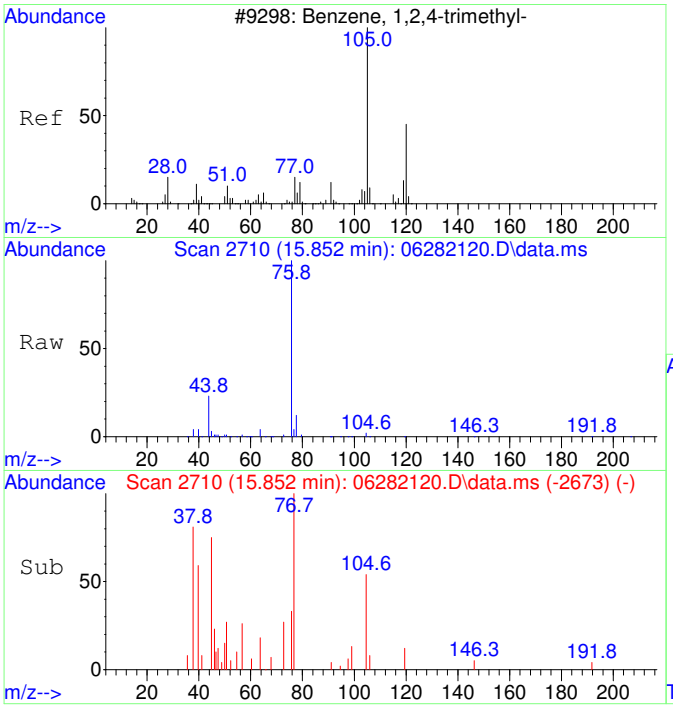


#39
Tetrachloroethene SCAN
Concen: 578.46 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. -0.000 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion:166 Resp: 2901

Ion	Ratio	Lower	Upper
166	100		
164	54.3	53.9	113.9
131	49.1	45.6	105.6
129	0.0	51.3	111.3#

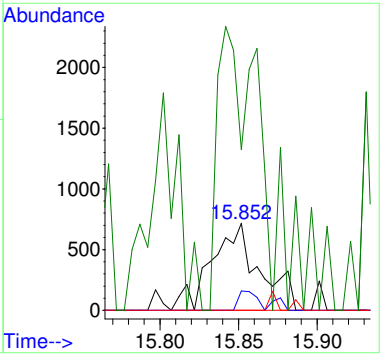




#47
1,2,4-Trimethylbenzene SCAN
Concen: 58.84 ug/L
RT: 15.852 min Scan# 2710
Delta R.T. -0.015 min
Lab File: 06282120.D
Acq: 28 Jun 2021 17:18

Tgt Ion:105 Resp: 1524

Ion	Ratio	Lower	Upper
105	100		
120	8.2	15.6	75.6#
119	0.0	0.0	38.2
77	254.7	0.0	44.0#



2106037-13

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282121.D
Acq On : 28 Jun 2021 17:44
InstName : AG5975C
Operator : TD
Sample : 2106037-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 29 06:07:06 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

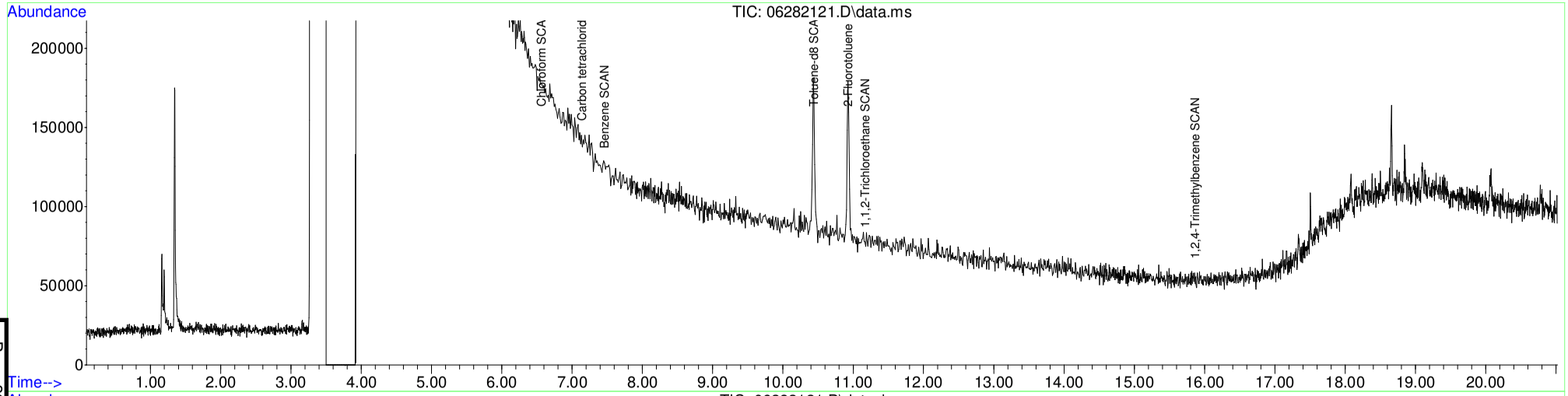
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	144449	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	124606	5036.03 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.72%		
Target Compounds					Qvalue
6] Chloroform	6.564	83	901	107.59 ug/L #	96
13] Toluene	10.528	91	869	26.98 ug/L	100
23] 1,2,4-Trimethylbenzene	15.839	105	1575	36.53 ug/L #	30
25) 2-Fluorotoluene SCAN	10.926	109	83569	4700.31 ug/L	99
30) Chloroform SCAN	6.563	83	852	146.67 ug/L #	19
32) Carbon tetrachloride SCAN	7.134	117	184	41.08 ug/L #	17
33) Benzene SCAN	7.463	78	2999	220.07 ug/L #	90
36) Toluene-d8 SCAN	10.432	98	73040	4736.50 ug/L	97
38) 1,1,2-Trichloroethane ...	11.167	97	285	59.94 ug/L #	14
47) 1,2,4-Trimethylbenzene...	15.857	105	642	25.86 ug/L #	1

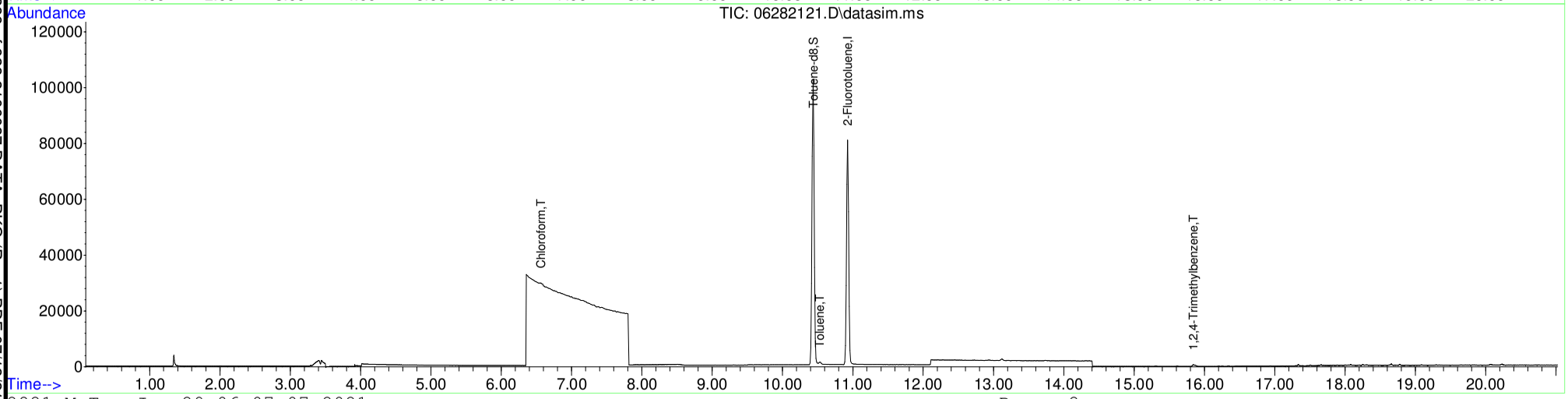
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282121.D
Acq On : 28 Jun 2021 17:44
InstName : AG5975C
Operator : TD
Sample : 2106037-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 29 06:07:06 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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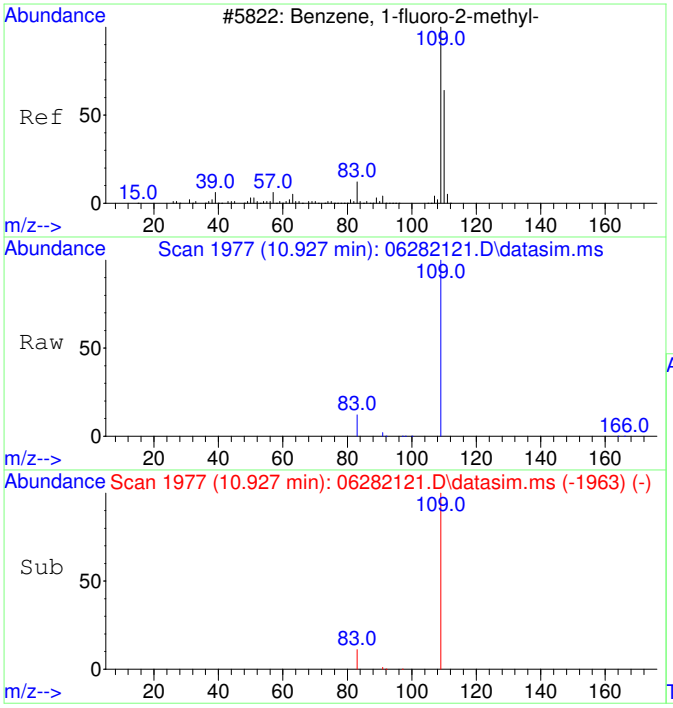
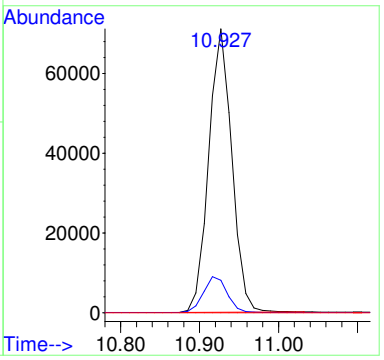
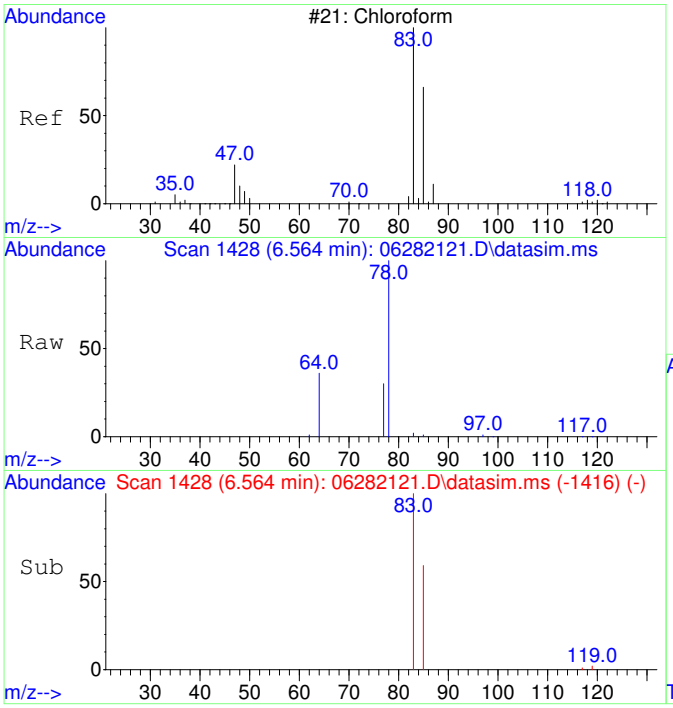


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion:109 Resp: 144449

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

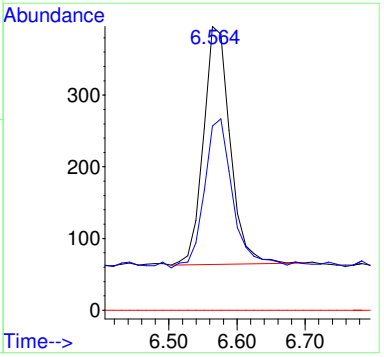


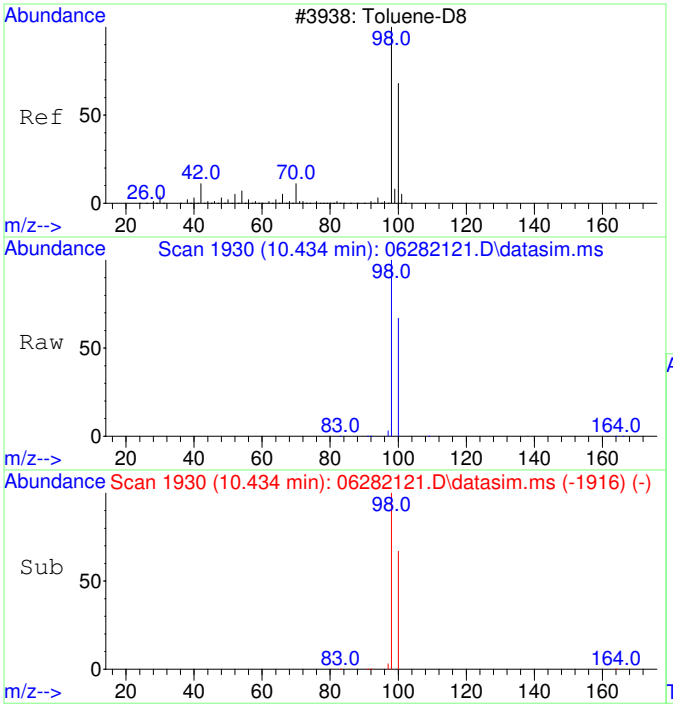


#6
Chloroform
Concen: 107.59 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion: 83 Resp: 901

Ion	Ratio	Lower	Upper
83	100		
85	67.6	34.5	94.5
87	0.0	0.0	20.0

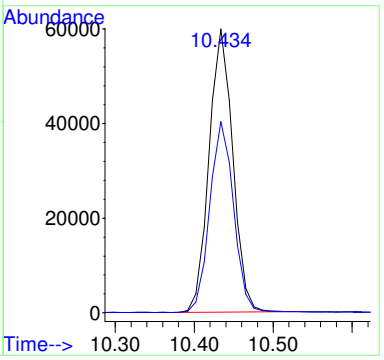


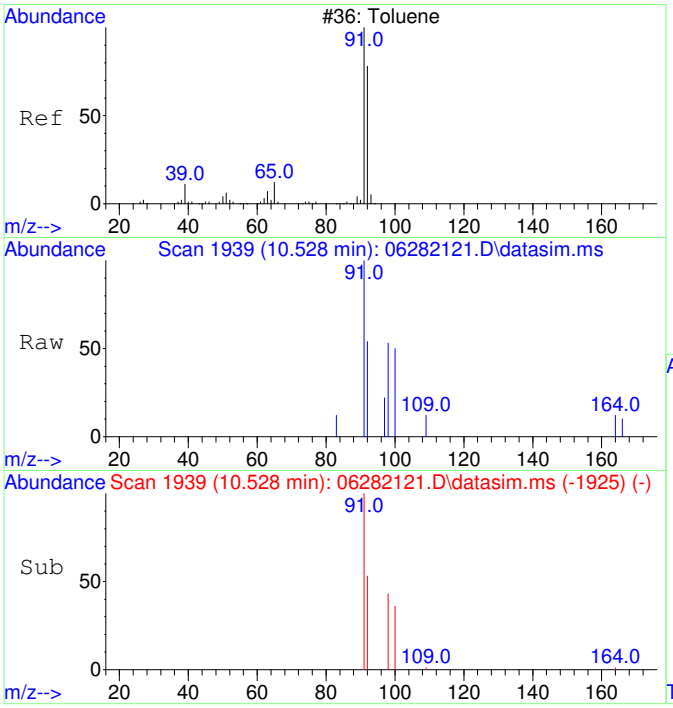


#12
Toluene-d8
Concen: 5036.03 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion: 98 Resp: 124606

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

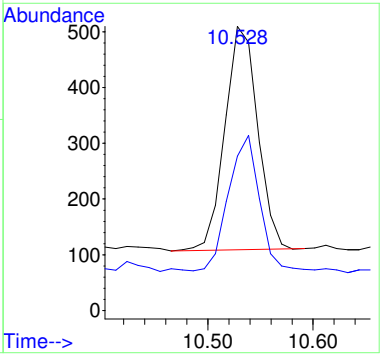


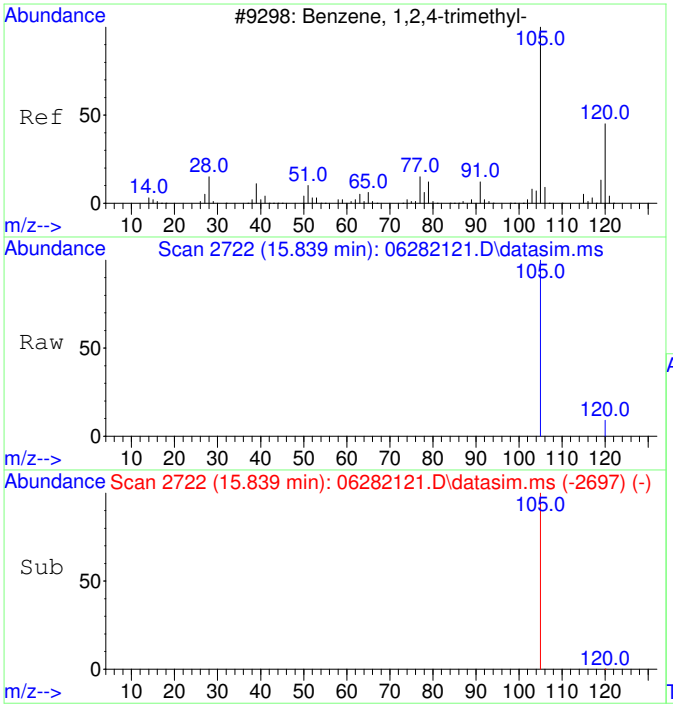


#13
Toluene
Concen: 26.98 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion: 91 Resp: 869

Ion	Ratio	Lower	Upper
91	100		
92	60.4	30.2	90.2

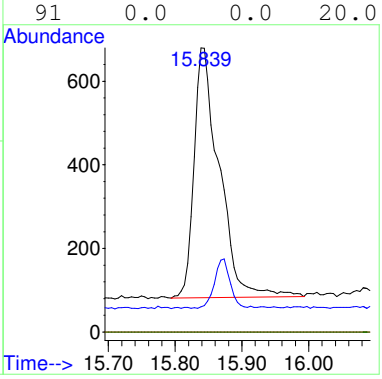


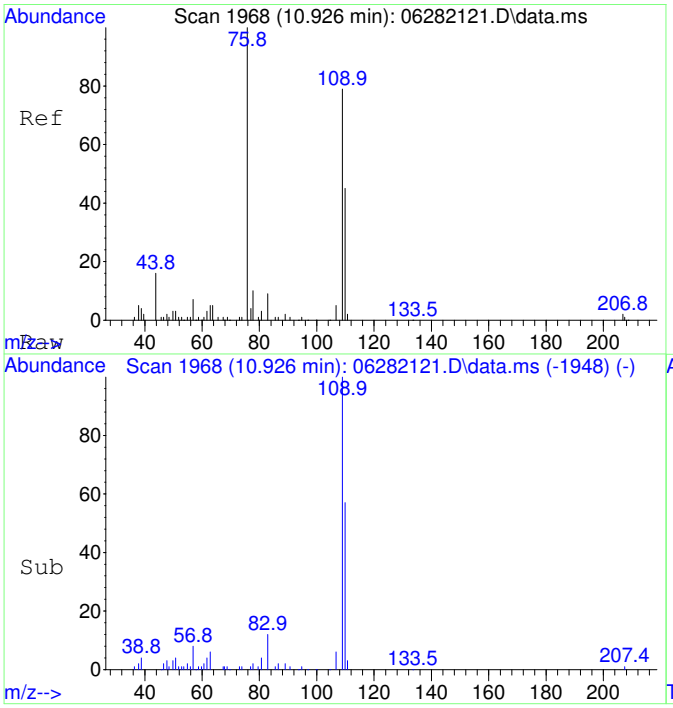


#23
1,2,4-Trimethylbenzene
Concen: 36.53 ug/L
RT: 15.839 min Scan# 2722
Delta R.T. -0.025 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion:105 Resp: 1575

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

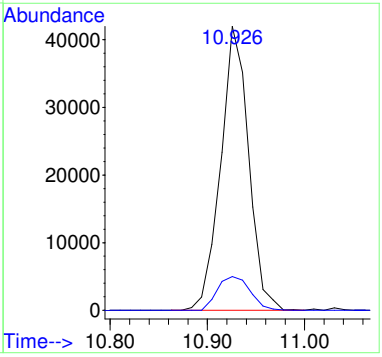


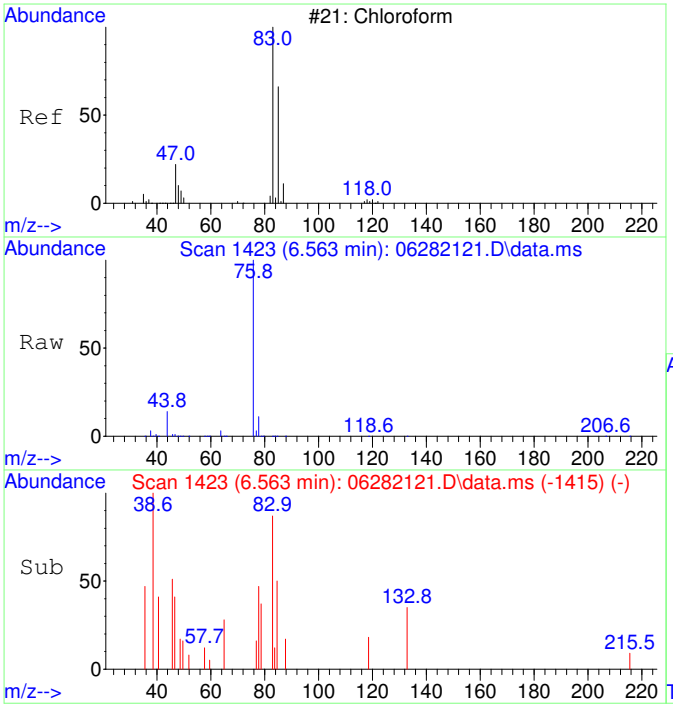


#25
2-Fluorotoluene SCAN
Concen: 4700.31 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion:109 Resp: 83569

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	44.5

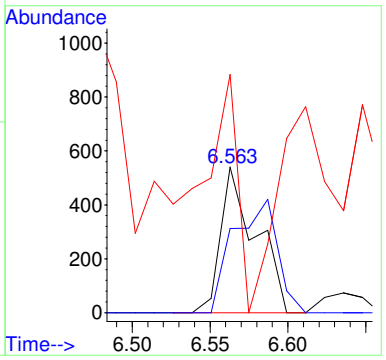


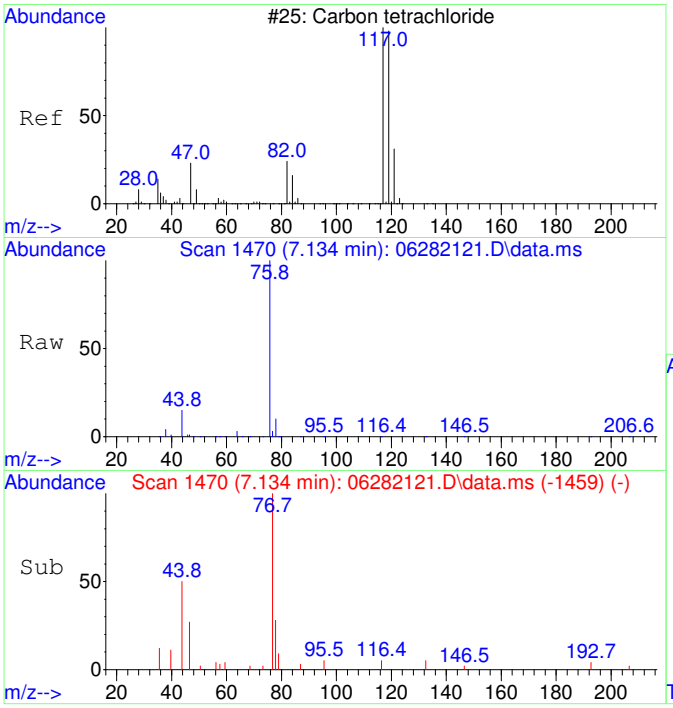


#30
Chloroform SCAN
Concen: 146.67 ug/L
RT: 6.563 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion: 83 Resp: 852

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	89.0	7.5	67.5#

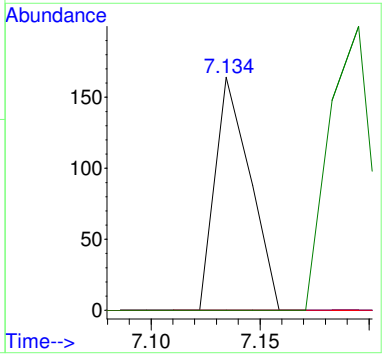


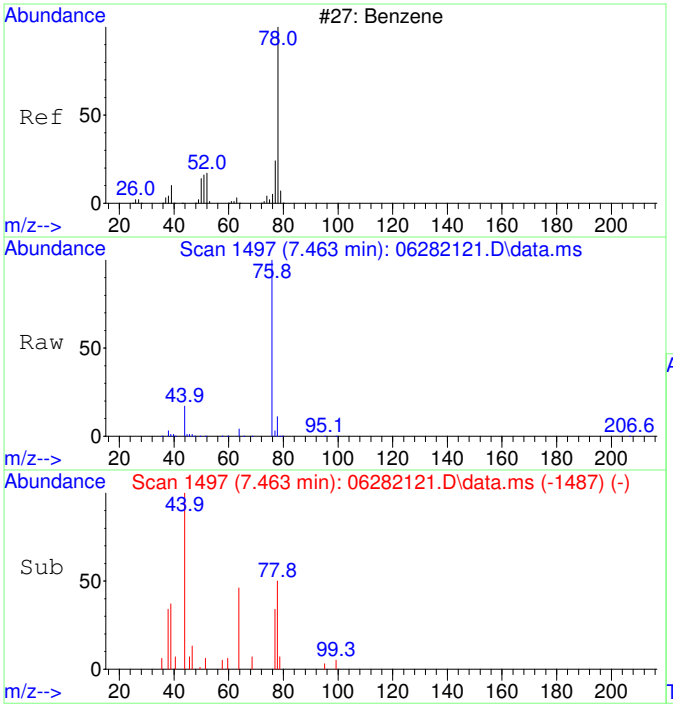


#32
Carbon tetrachloride SCAN
Concen: 41.08 ug/L
RT: 7.134 min Scan# 1470
Delta R.T. 0.037 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion:117 Resp: 184

Ion	Ratio	Lower	Upper
117	100		
119	0.0	68.0	128.0#
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

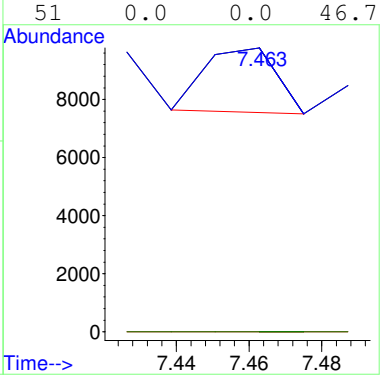


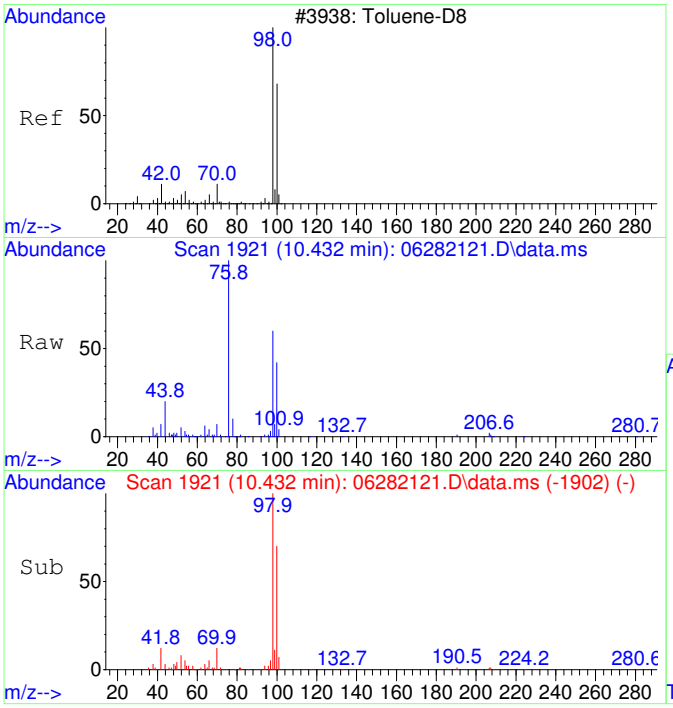


#33
Benzene SCAN
Concen: 220.07 ug/L
RT: 7.463 min Scan# 1497
Delta R.T. 0.025 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion: 78 Resp: 2999

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

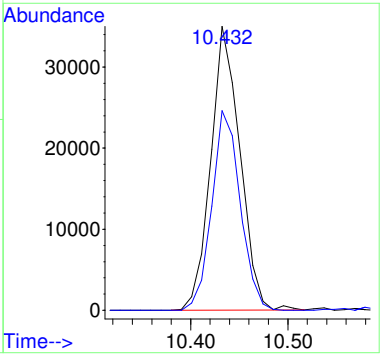


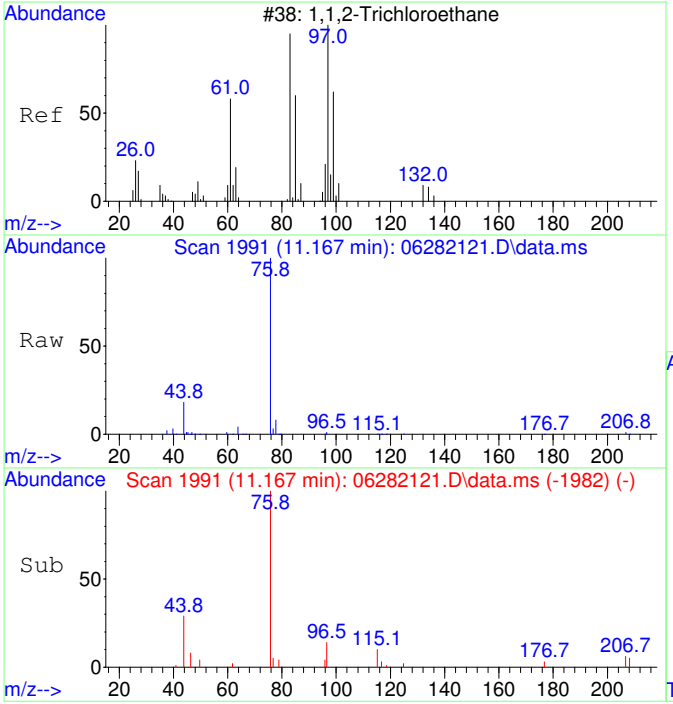


#36
Toluene-d8 SCAN
Concen: 4736.50 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion: 98 Resp: 73040

Ion	Ratio	Lower	Upper
98	100		
100	68.3	36.1	96.1

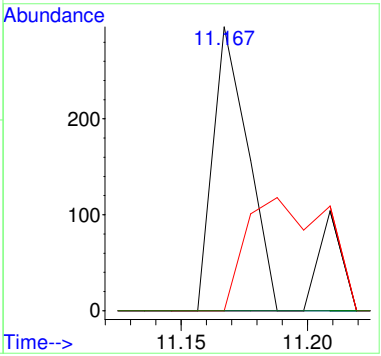


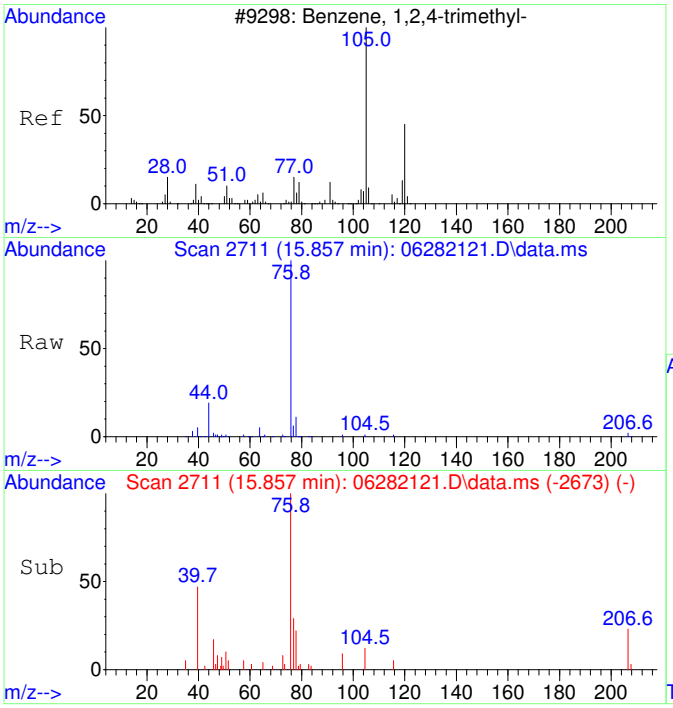


#38
1,1,2-Trichloroethane SCAN
Concen: 59.94 ug/L
RT: 11.167 min Scan# 1991
Delta R.T. -0.010 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion: 97 Resp: 285

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

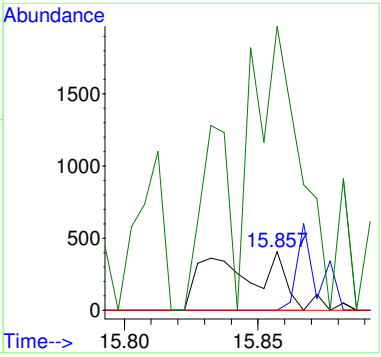




#47
1,2,4-Trimethylbenzene SCAN
Concen: 25.86 ug/L
RT: 15.857 min Scan# 2711
Delta R.T. -0.010 min
Lab File: 06282121.D
Acq: 28 Jun 2021 17:44

Tgt Ion:105 Resp: 642

Ion	Ratio	Lower	Upper
105	100		
120	50.0	15.6	75.6
119	0.0	0.0	38.2
77	371.5	0.0	44.0#



2106037-14

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282122.D
Acq On : 28 Jun 2021 18:11
InstName : AG5975C
Operator : TD
Sample : 2106037-14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 29 06:07:10 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

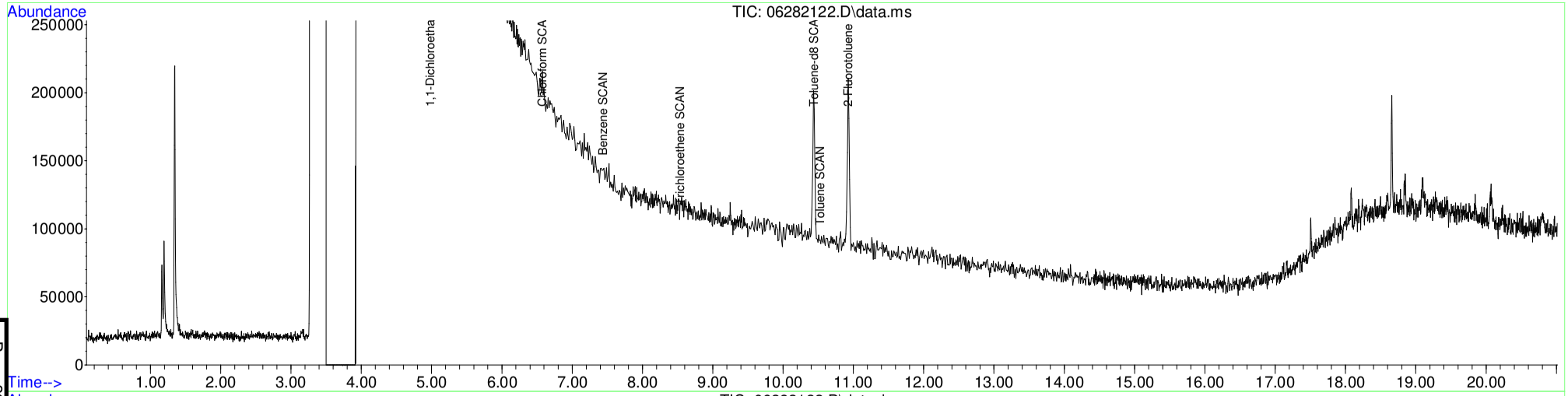
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.926	109	171658	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.433	98	146782	4991.98	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 99.84%			
Target Compounds						Qvalue
5] cis-1,2-Dichloroethene	5.992	61	654	77.34	ug/L #	93
6] Chloroform	6.564	83	1941	195.04	ug/L #	98
11] Trichloroethene	8.513	130	2232	299.79	ug/L	97
13] Toluene	10.528	91	953	24.90	ug/L	100
23] 1,2,4-Trimethylbenzene	15.843	105	1541	30.08	ug/L #	30
25) 2-Fluorotoluene SCAN	10.925	109	100526	4757.84	ug/L	97
28) 1,1-Dichloroethane SCAN	4.975	63	179	27.67	ug/L #	41
30) Chloroform SCAN	6.574	83	1937	280.59	ug/L #	34
33) Benzene SCAN	7.438	78	4967	306.71	ug/L #	90
35) Trichloroethene SCAN	8.528	130	1538	372.60	ug/L #	20
36) Toluene-d8 SCAN	10.432	98	88670	4838.65	ug/L	94
37) Toluene SCAN	10.526	91	1160	48.91	ug/L #	31

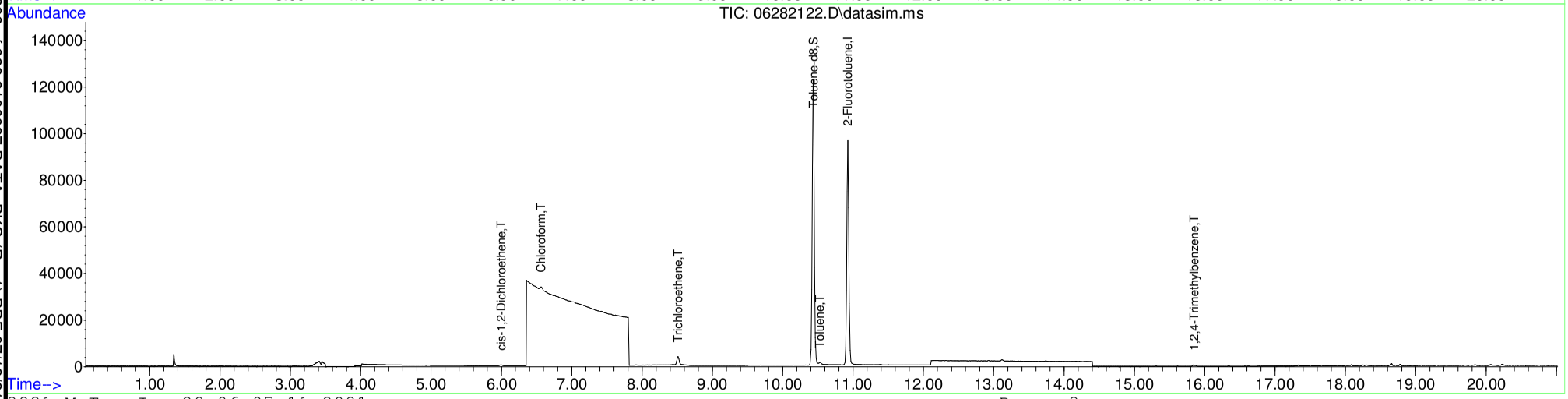
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282122.D
Acq On : 28 Jun 2021 18:11
InstName : AG5975C
Operator : TD
Sample : 2106037-14
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 29 06:07:10 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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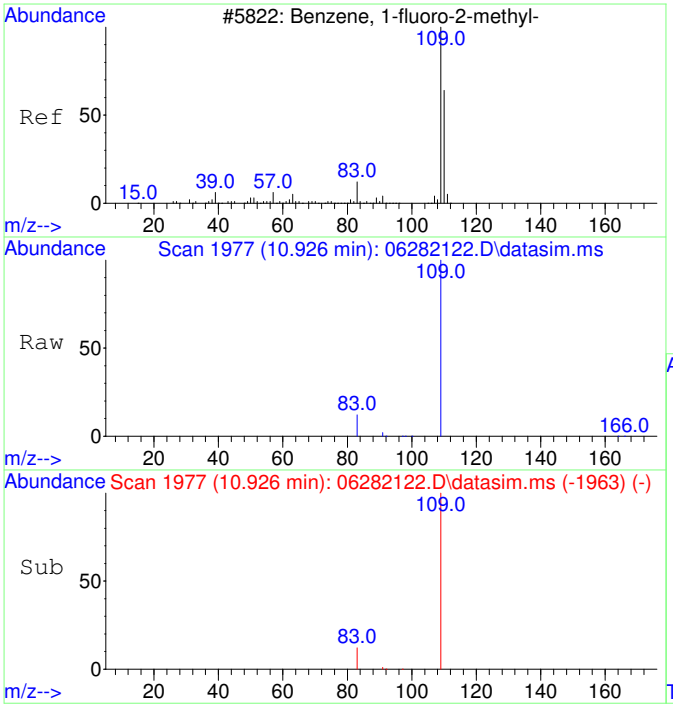
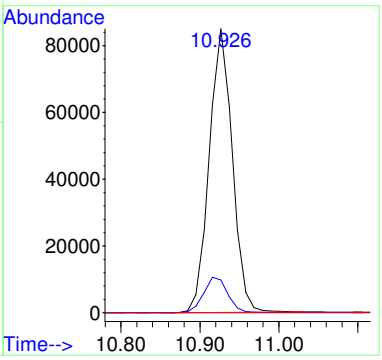
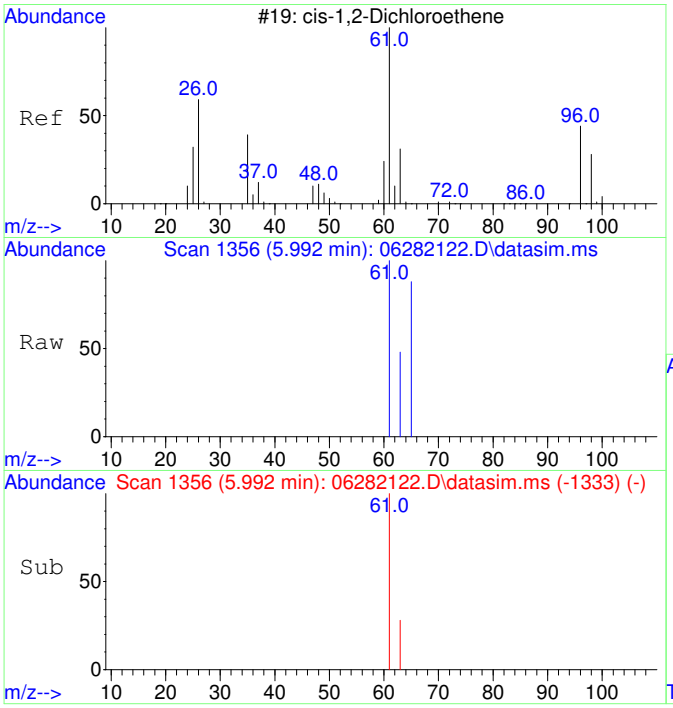


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.926 min Scan# 1977
Delta R.T. -0.001 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion:109 Resp: 171658

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

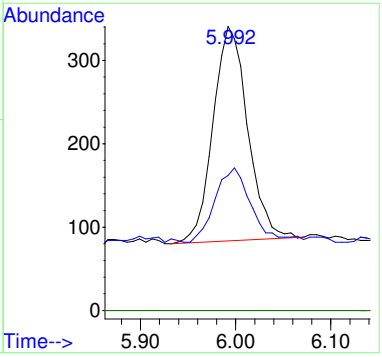


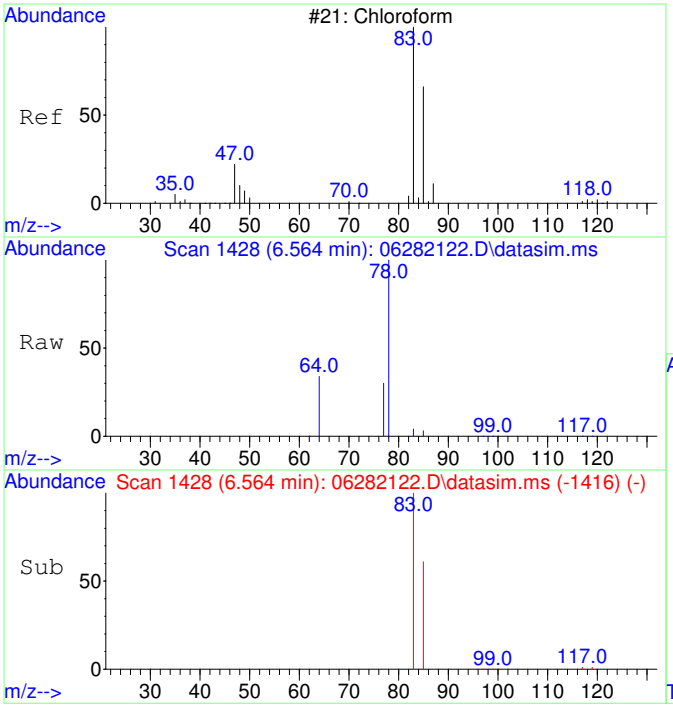


#5
cis-1,2-Dichloroethene
Concen: 77.34 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. -0.000 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion: 61 Resp: 654

Ion	Ratio	Lower	Upper
61	100		
63	36.2	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

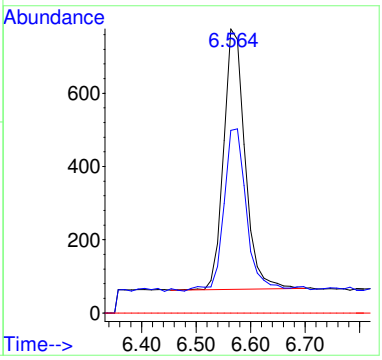


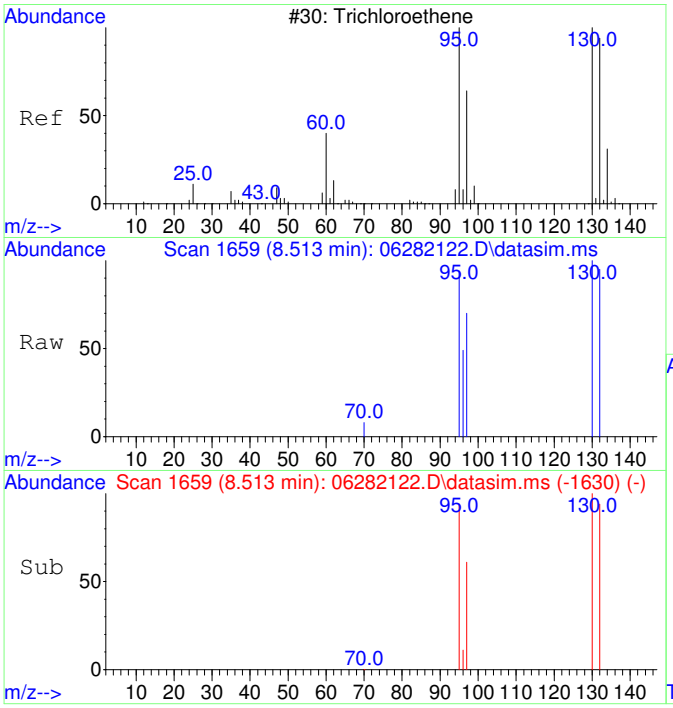


#6
Chloroform
Concen: 195.04 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.000 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion: 83 Resp: 1941

Ion	Ratio	Lower	Upper
83	100		
85	65.8	34.5	94.5
87	0.0	0.0	20.0

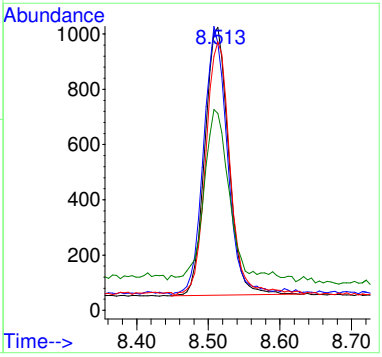


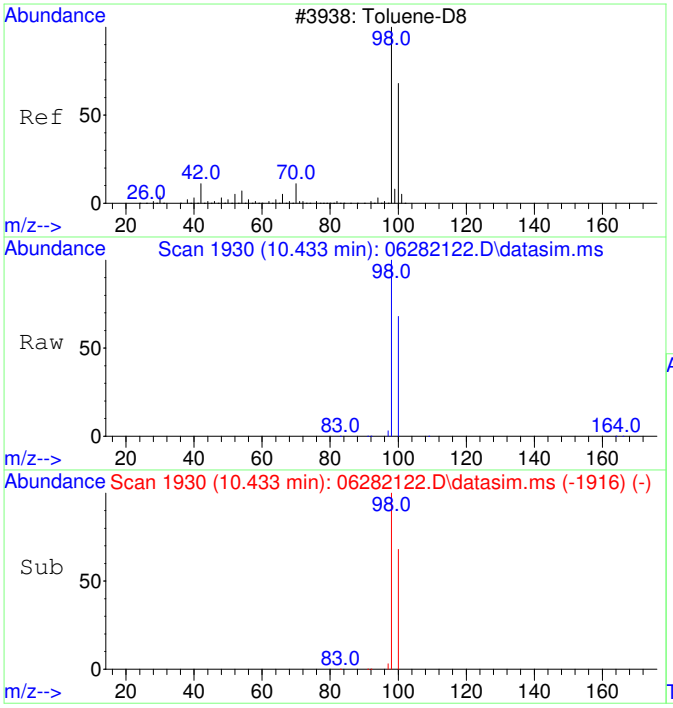


#11
Trichloroethene
Concen: 299.79 ug/L
RT: 8.513 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion:130 Resp: 2232

Ion	Ratio	Lower	Upper
130	100		
95	100.0	65.8	125.8
132	96.8	75.8	115.8
97	66.6	42.0	82.0

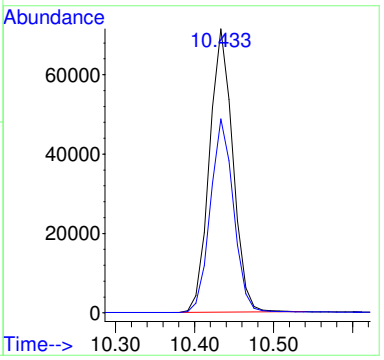


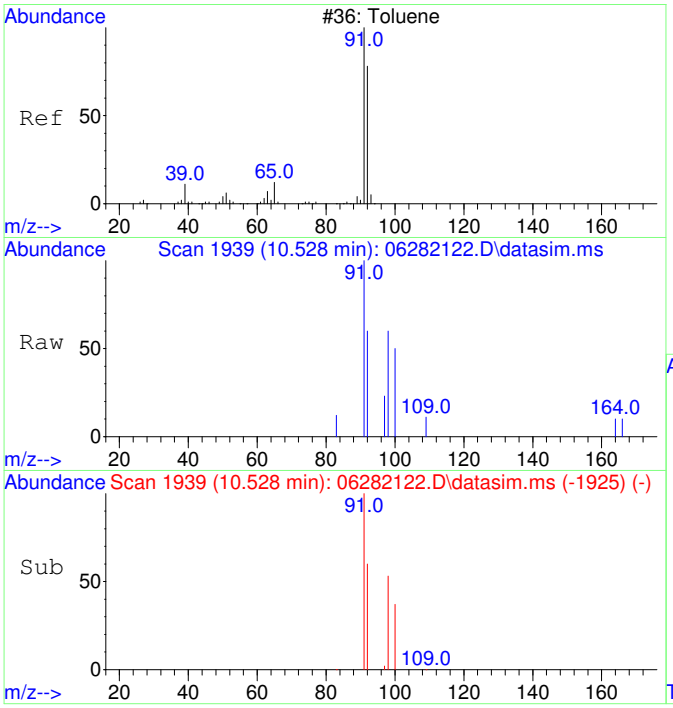


#12
Toluene-d8
Concen: 4991.98 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion: 98 Resp: 146782

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.3	97.3

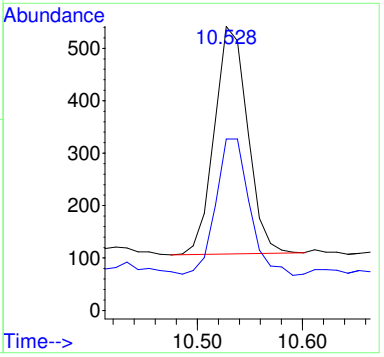


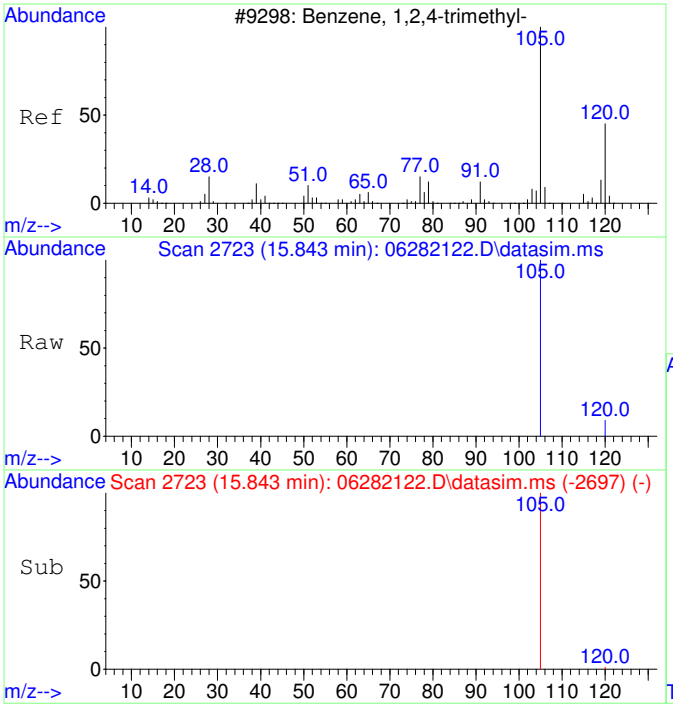


#13
Toluene
Concen: 24.90 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.000 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion: 91 Resp: 953

Ion	Ratio	Lower	Upper
91	100		
92	60.2	30.2	90.2

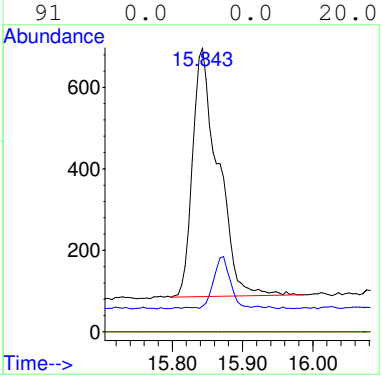


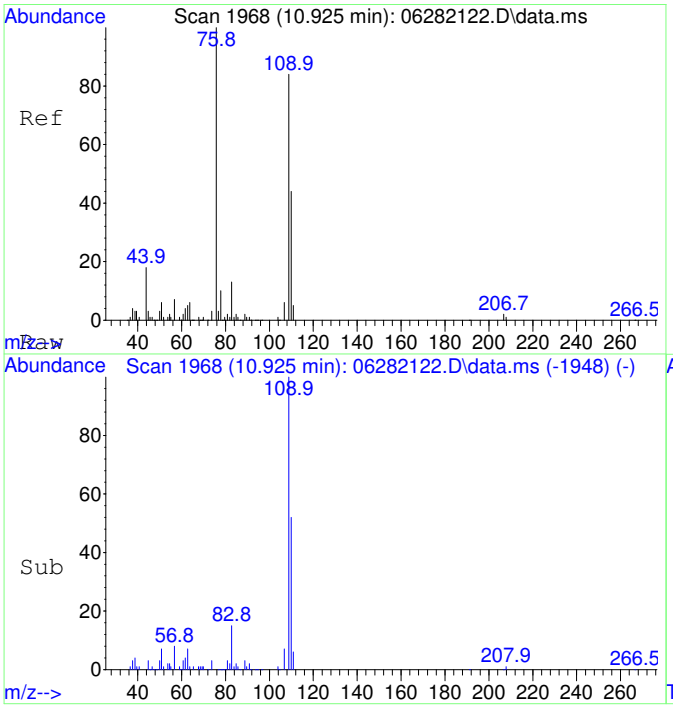


#23
1,2,4-Trimethylbenzene
Concen: 30.08 ug/L
RT: 15.843 min Scan# 2723
Delta R.T. -0.020 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion:105 Resp: 1541

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

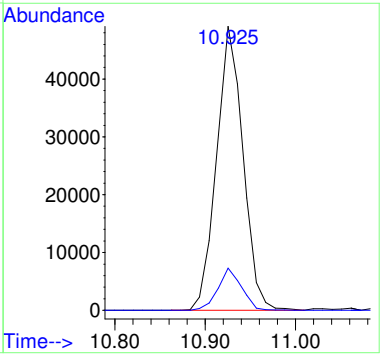


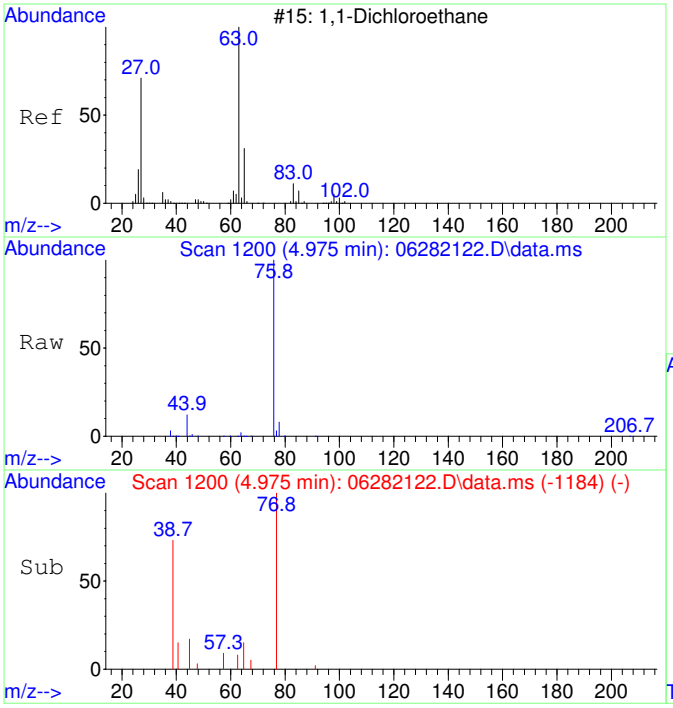


#25
2-Fluorotoluene SCAN
Concen: 4757.84 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion:109 Resp: 100526

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	44.5

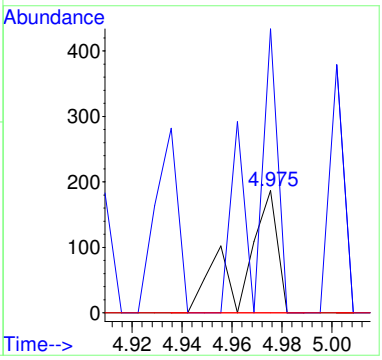


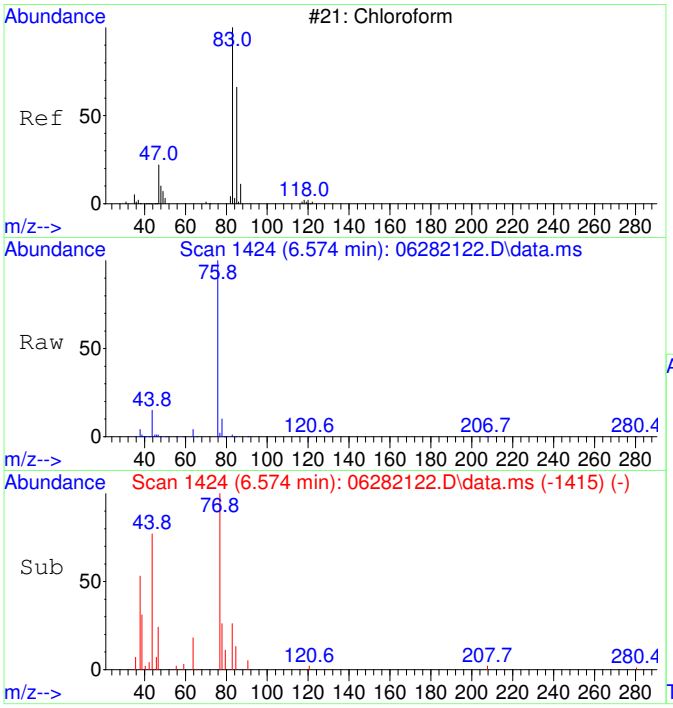


#28
1,1-Dichloroethane SCAN
Concen: 27.67 ug/L
RT: 4.975 min Scan# 1200
Delta R.T. 0.006 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion: 63 Resp: 179

Ion	Ratio	Lower	Upper
63	100		
65	64.8	0.0	57.3#
83	0.0	0.0	46.2

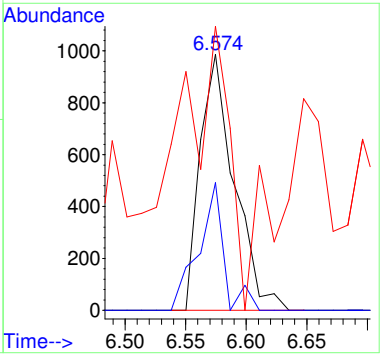


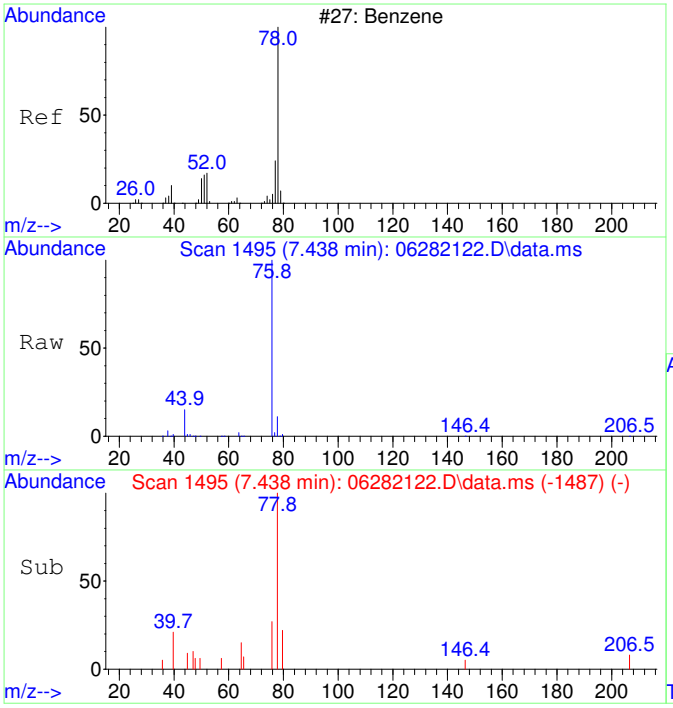


#30
Chloroform SCAN
Concen: 280.59 ug/L
RT: 6.574 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion: 83 Resp: 1937

Ion	Ratio	Lower	Upper
83	100		
85	36.7	27.1	87.1
47	112.6	7.5	67.5#

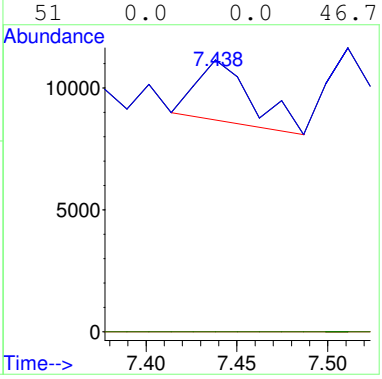


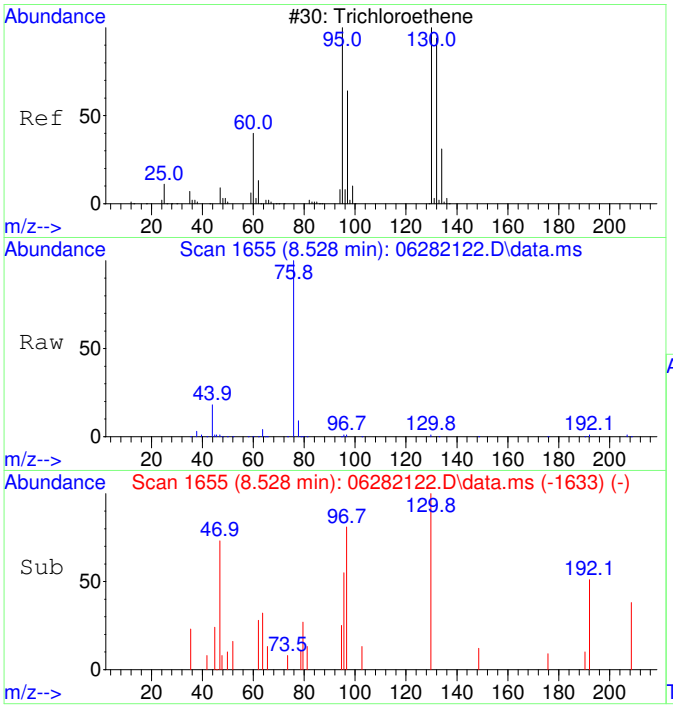


#33
Benzene SCAN
Concen: 306.71 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. -0.000 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion: 78 Resp: 4967

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

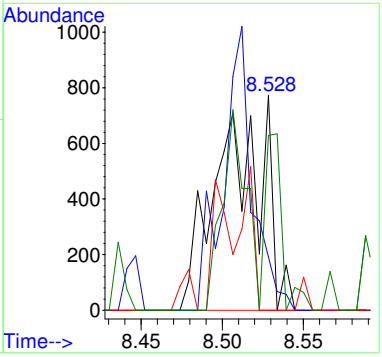


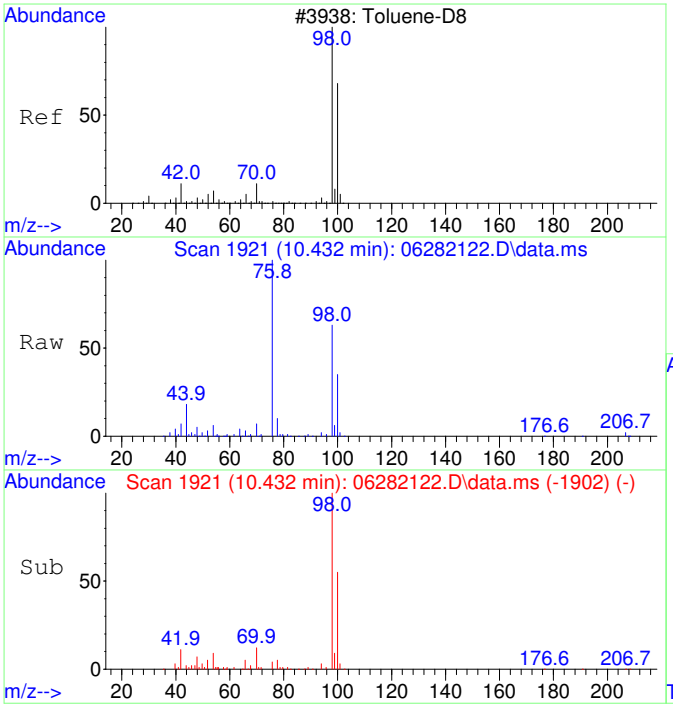


#35
Trichloroethene SCAN
Concen: 372.60 ug/L
RT: 8.528 min Scan# 1655
Delta R.T. 0.022 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion:130 Resp: 1538

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.0	120.0#
132	0.0	54.3	114.3#
97	29.9	24.6	84.6

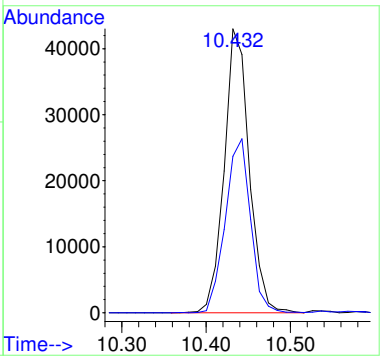


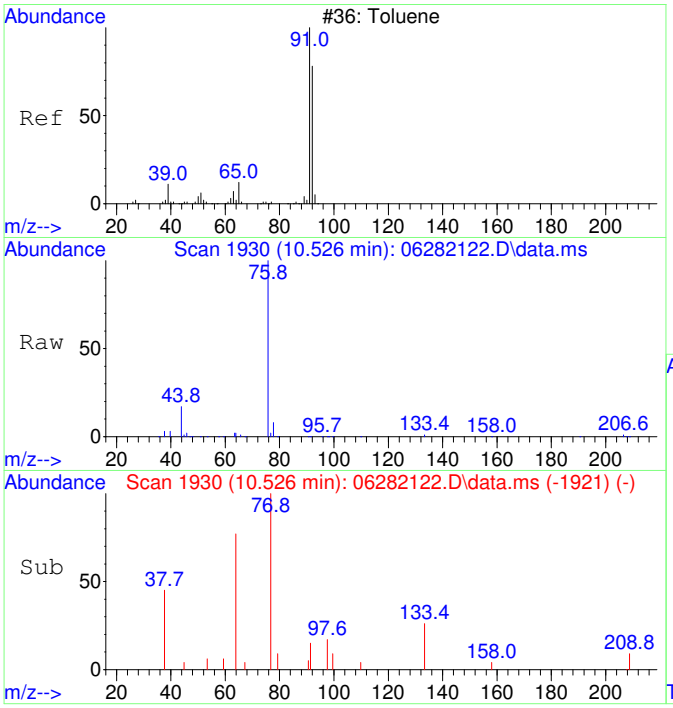


#36
Toluene-d8 SCAN
Concen: 4838.65 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. -0.000 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion: 98 Resp: 88670

Ion	Ratio	Lower	Upper
98	100		
100	61.5	36.1	96.1

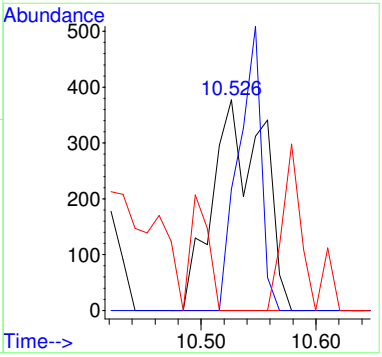




#37
Toluene SCAN
Concen: 48.91 ug/L
RT: 10.526 min Scan# 1930
Delta R.T. -0.011 min
Lab File: 06282122.D
Acq: 28 Jun 2021 18:11

Tgt Ion: 91 Resp: 1160

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.5	86.5#
65	0.0	0.0	40.6



2106037-15

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282123.D
Acq On : 28 Jun 2021 18:37
InstName : AG5975C
Operator : TD
Sample : 2106037-15
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 29 06:07:14 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

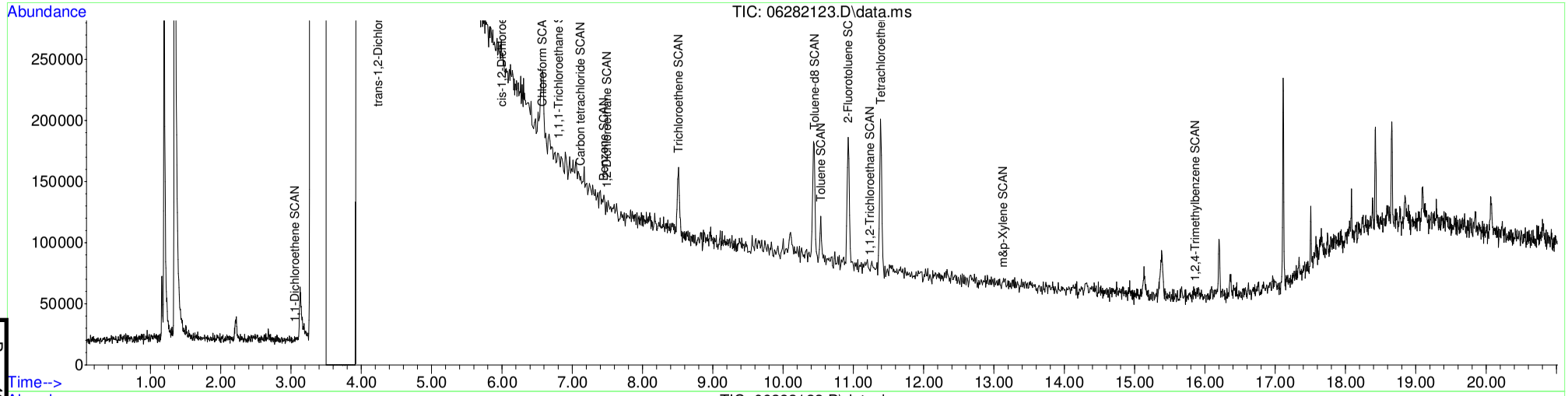
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.926	109	159001	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	136460	5010.37 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.21%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	572	82.59 ug/L #	96
3] trans-1,2-Dichloroethene	4.220	61	838	140.60 ug/L #	98
4] 1,1-Dichloroethane	4.963	63	303	37.07 ug/L #	62
5] cis-1,2-Dichloroethene	5.992	61	14254	1819.87 ug/L #	100
6] Chloroform	6.564	83	103277	11203.81 ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	281	32.76 ug/L #	89
8] Carbon tetrachloride	7.099	117	398	53.26 ug/L #	95
11] Trichloroethene	8.513	130	33089	4798.19 ug/L	99
13] Toluene	10.528	91	41624	1174.12 ug/L	99
15] Tetrachloroethene	11.388	166	68979	7606.16 ug/L #	100
19] m&p-Xylene	13.121	91	2295	63.99 ug/L #	96
20] o-Xylene	13.741	91	960	24.75 ug/L #	94
23] 1,2,4-Trimethylbenzene	15.843	105	3109	65.51 ug/L #	30
25) 2-Fluorotoluene SCAN	10.925	109	94779	4842.93 ug/L	93
26) 1,1-Dichloroethene SCAN	3.051	61	563	136.20 ug/L #	50
27) trans-1,2-Dichloroethe...	4.232	61	256	57.25 ug/L #	39
29) cis-1,2-Dichloroethene...	5.997	61	10787	1784.09 ug/L	94
30) Chloroform SCAN	6.574	83	68875	10771.36 ug/L	90
31) 1,1,1-Trichloroethane ...	6.806	97	188	31.47 ug/L #	28
32) Carbon tetrachloride SCAN	7.110	117	175	35.50 ug/L #	72
33) Benzene SCAN	7.450	78	5515	367.66 ug/L #	90
34) 1,2-Dichloroethane SCAN	7.487	62	191	40.39 ug/L #	14
35) Trichloroethene SCAN	8.512	130	20187	5279.81 ug/L	90
36) Toluene-d8 SCAN	10.442	98	81265	4787.57 ug/L	95
37) Toluene SCAN	10.537	91	28307	1288.50 ug/L	91
38) 1,1,2-Trichloroethane ...	11.230	97	158	30.19 ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	37339	7057.94 ug/L	98
43) m&p-Xylene SCAN	13.120	91	1737	39.76 ug/L #	42
47) 1,2,4-Trimethylbenzene...	15.857	105	1864	68.22 ug/L #	63

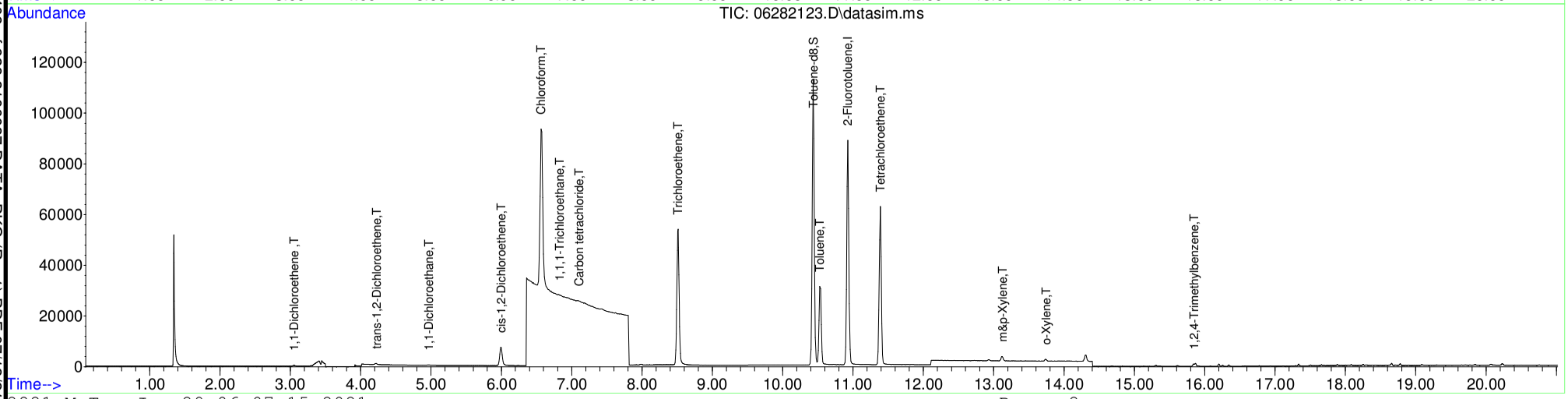
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282123.D
Acq On : 28 Jun 2021 18:37
InstName : AG5975C
Operator : TD
Sample : 2106037-15
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 29 06:07:14 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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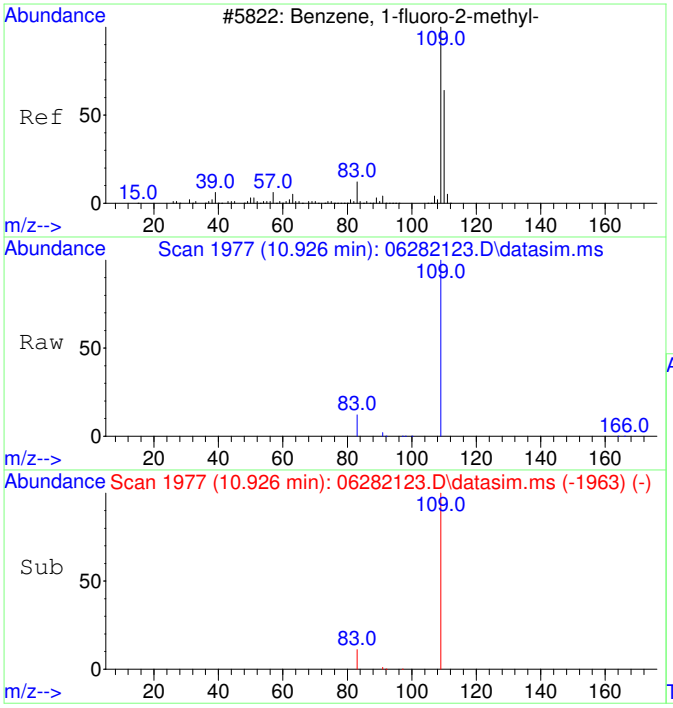
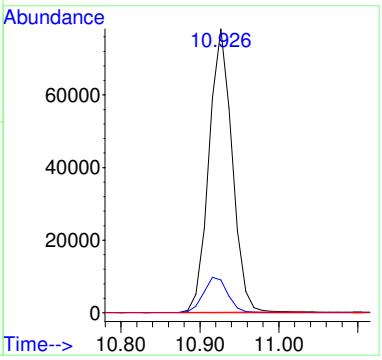
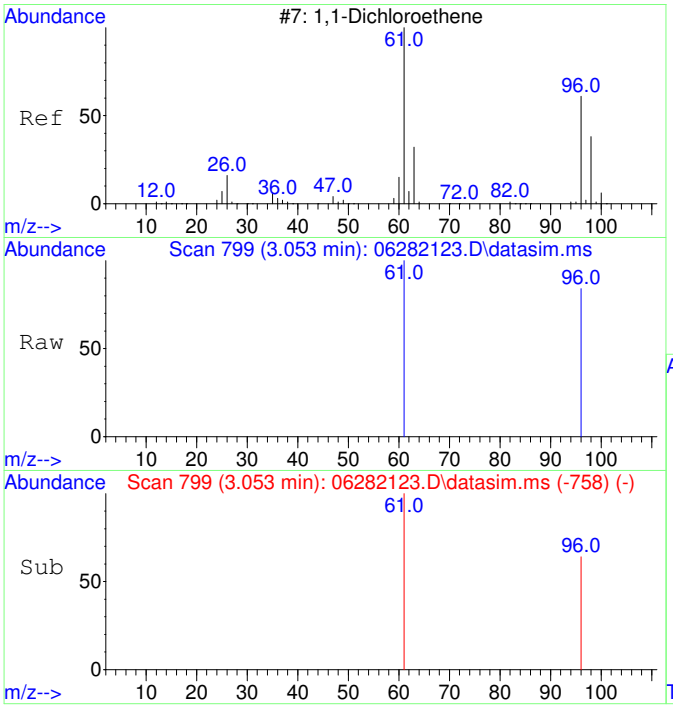


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.926 min Scan# 1977
Delta R.T. -0.001 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:109 Resp: 159001

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

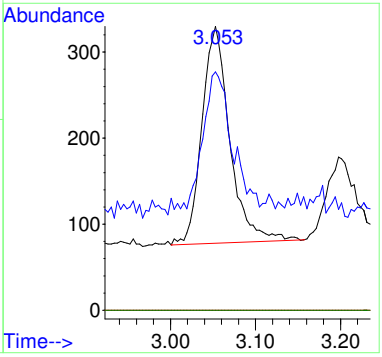


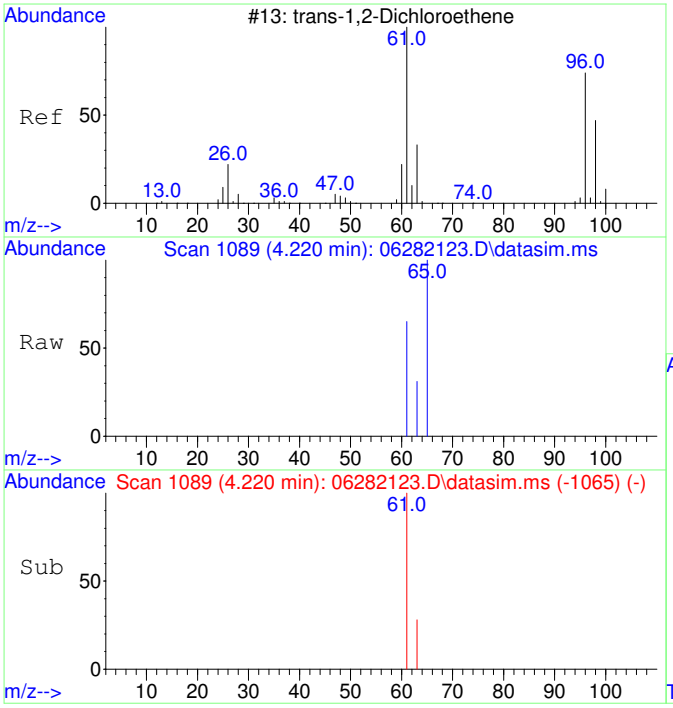


#2
1,1-Dichloroethene
Concen: 82.59 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 61 Resp: 572

Ion	Ratio	Lower	Upper
61	100		
96	61.5	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

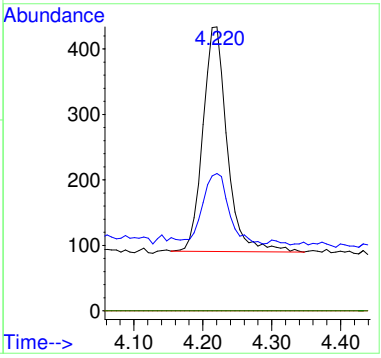


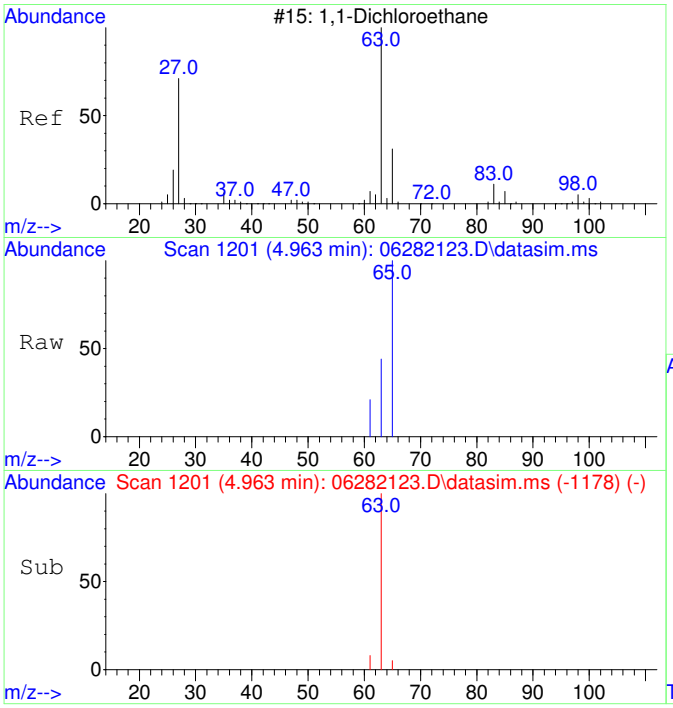


#3
trans-1,2-Dichloroethene
Concen: 140.60 ug/L
RT: 4.220 min Scan# 1089
Delta R.T. 0.006 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 61 Resp: 838

Ion	Ratio	Lower	Upper
61	100		
63	33.8	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

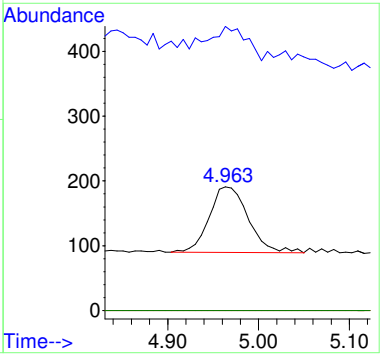


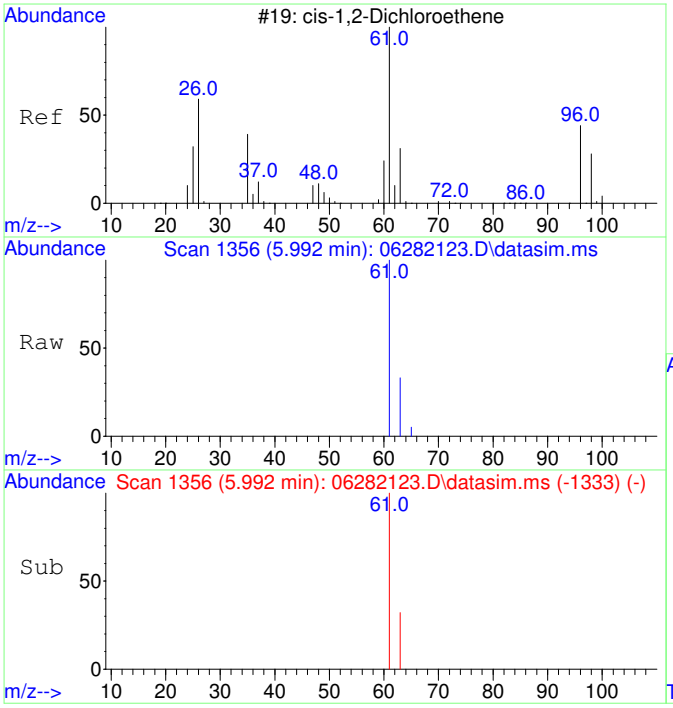


#4
1,1-Dichloroethane
Concen: 37.07 ug/L
RT: 4.963 min Scan# 1201
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 63 Resp: 303

Ion	Ratio	Lower	Upper
63	100		
65	52.5	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

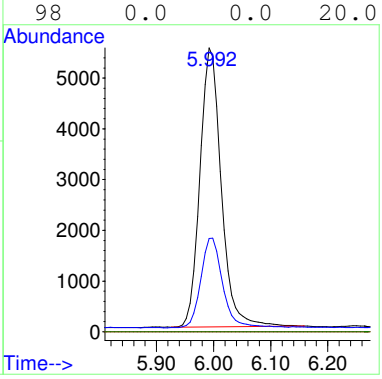


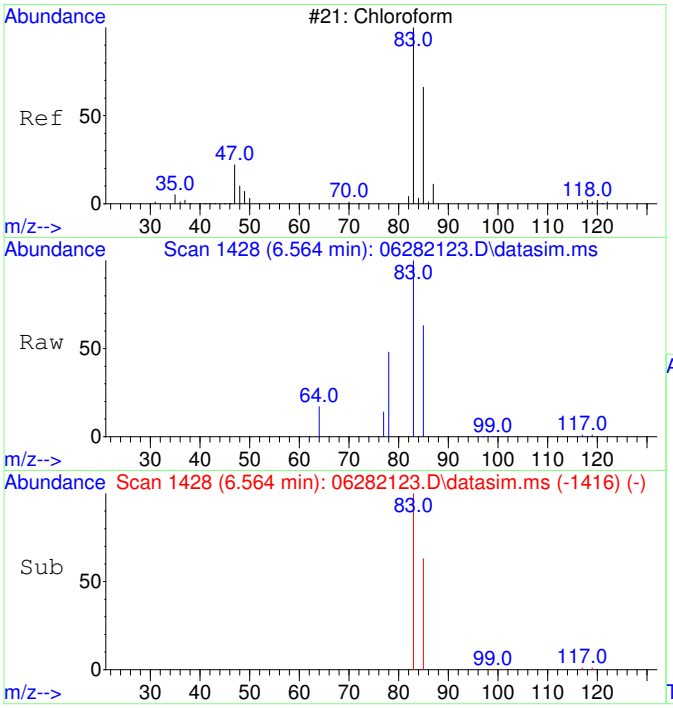


#5
cis-1,2-Dichloroethene
Concen: 1819.87 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 61 Resp: 14254

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

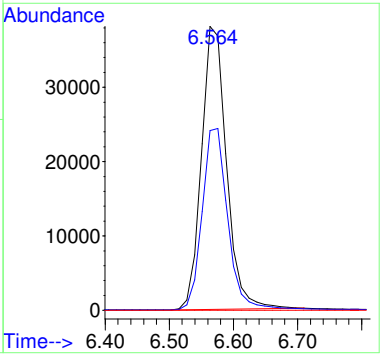


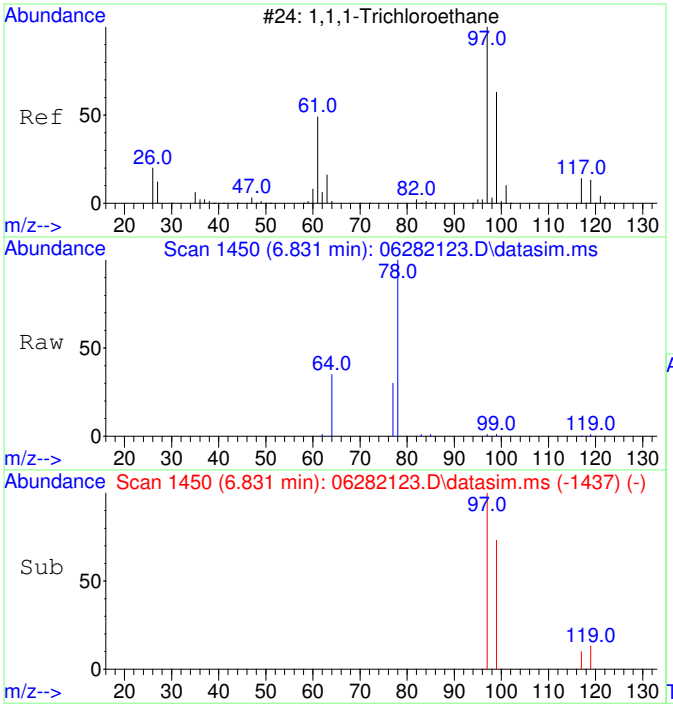


#6
Chloroform
Concen: 11203.81 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 83 Resp: 103277

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.5	94.5
87	0.0	0.0	20.0

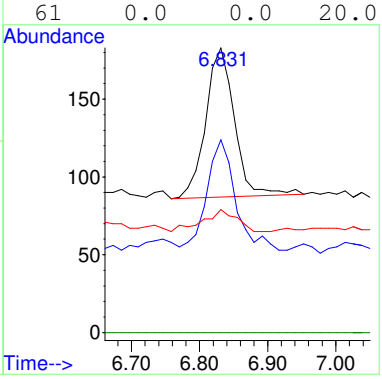


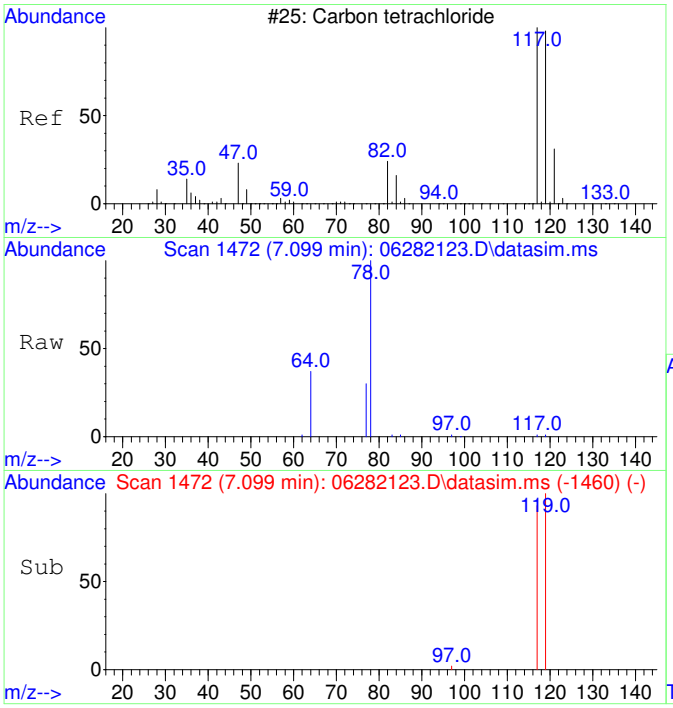


#7
1,1,1-Trichloroethane
Concen: 32.76 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 97 Resp: 281

Ion	Ratio	Lower	Upper
97	100		
99	73.3	34.4	94.4
117	16.7	0.0	42.8
61	0.0	0.0	20.0

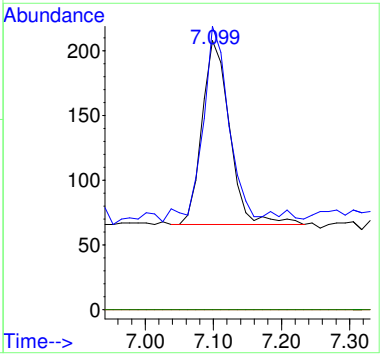


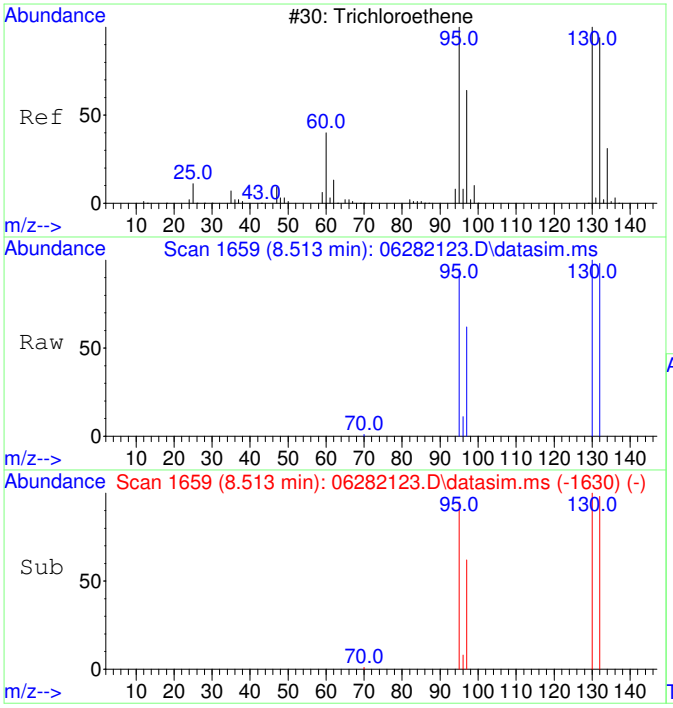


#8
Carbon tetrachloride
Concen: 53.26 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:117 Resp: 398

Ion	Ratio	Lower	Upper
117	100		
119	101.3	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

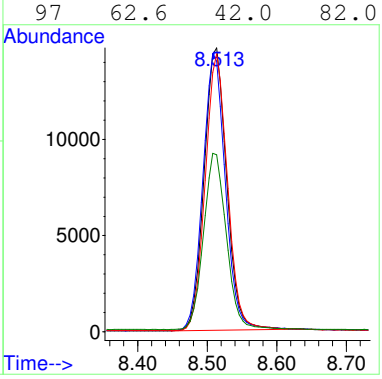


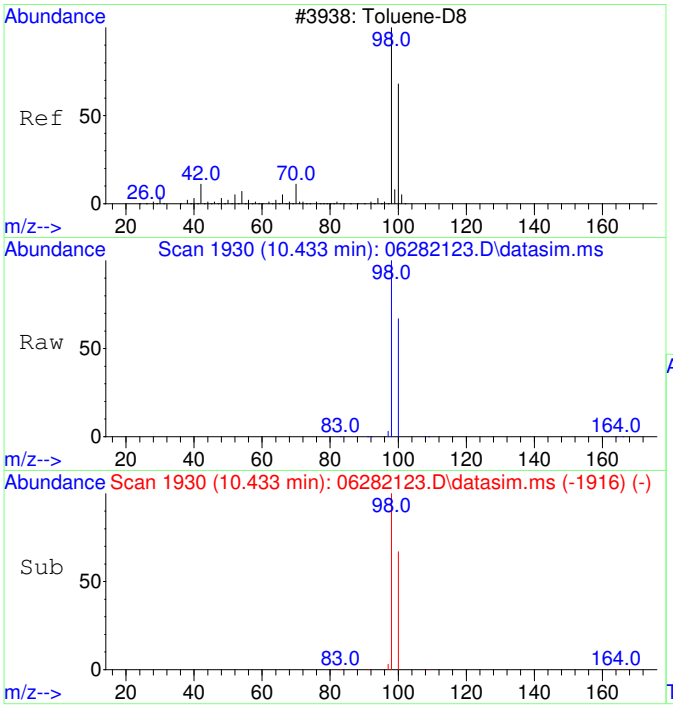


#11
Trichloroethene
Concen: 4798.19 ug/L
RT: 8.513 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:130 Resp: 33089

Ion	Ratio	Lower	Upper
130	100		
95	97.5	65.8	125.8
132	96.4	75.8	115.8
97	62.6	42.0	82.0

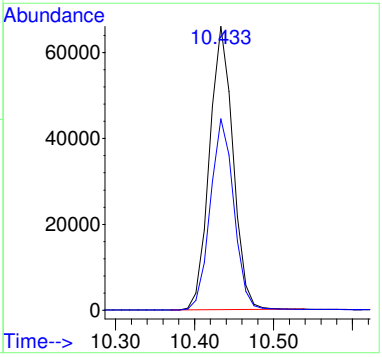


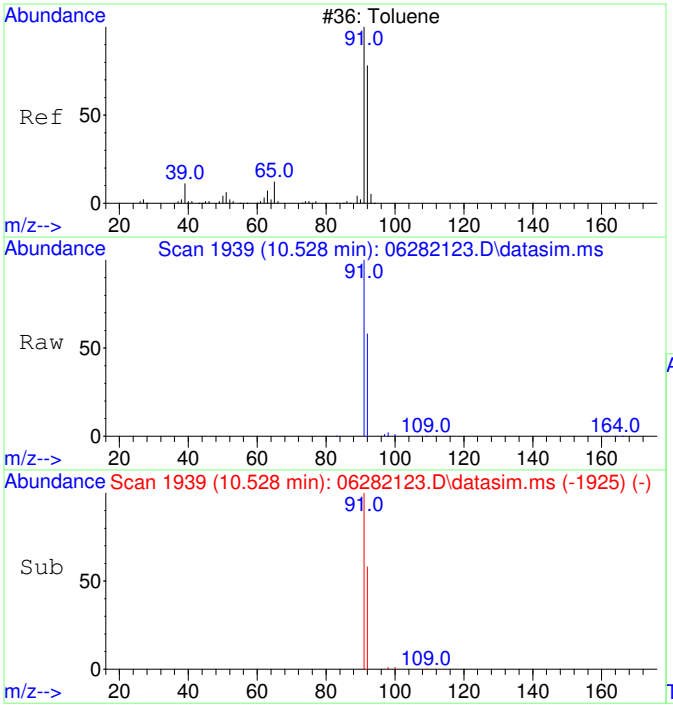


#12
Toluene-d8
Concen: 5010.37 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 98 Resp: 136460

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

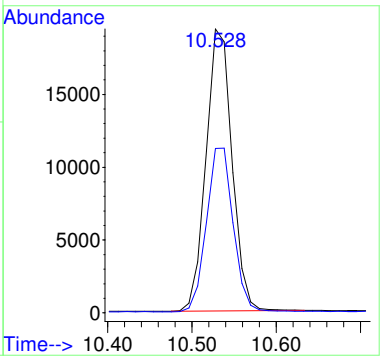


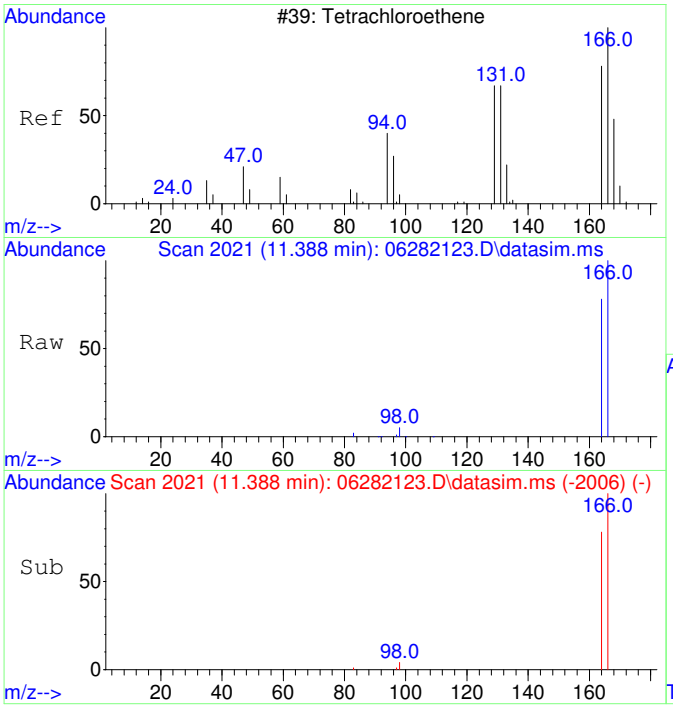


#13
Toluene
Concen: 1174.12 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 91 Resp: 41624

Ion	Ratio	Lower	Upper
91	100		
92	59.5	30.2	90.2

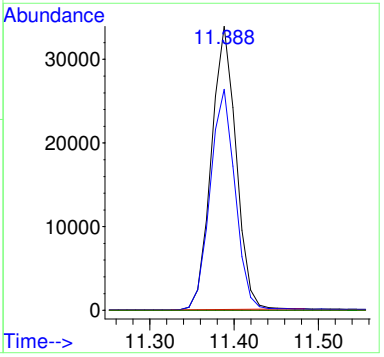


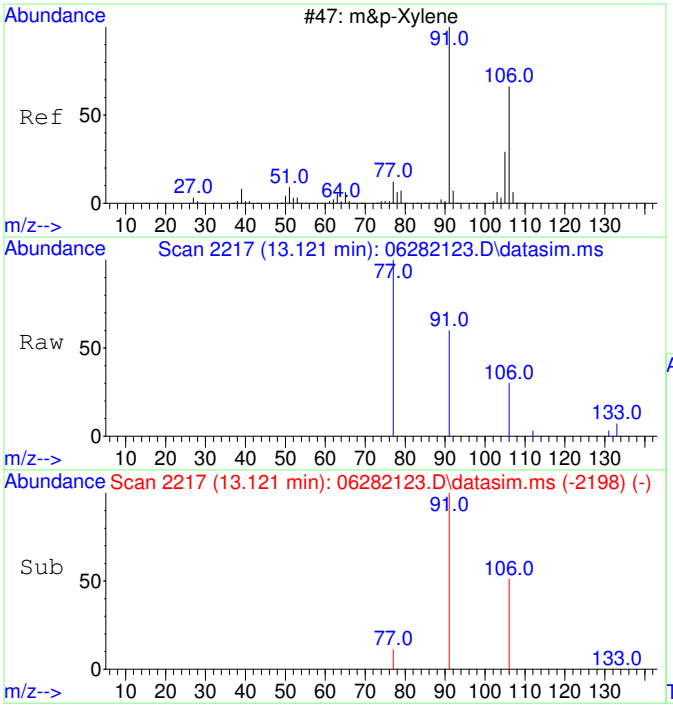


#15
Tetrachloroethene
Concen: 7606.16 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.010 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:166 Resp: 68979

Ion	Ratio	Lower	Upper
166	100		
164	78.2	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

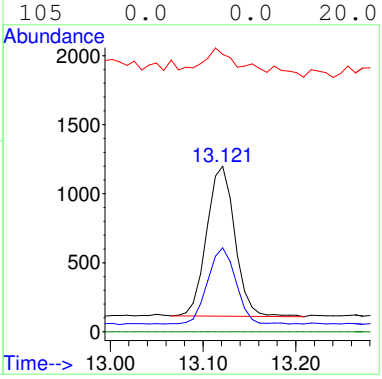


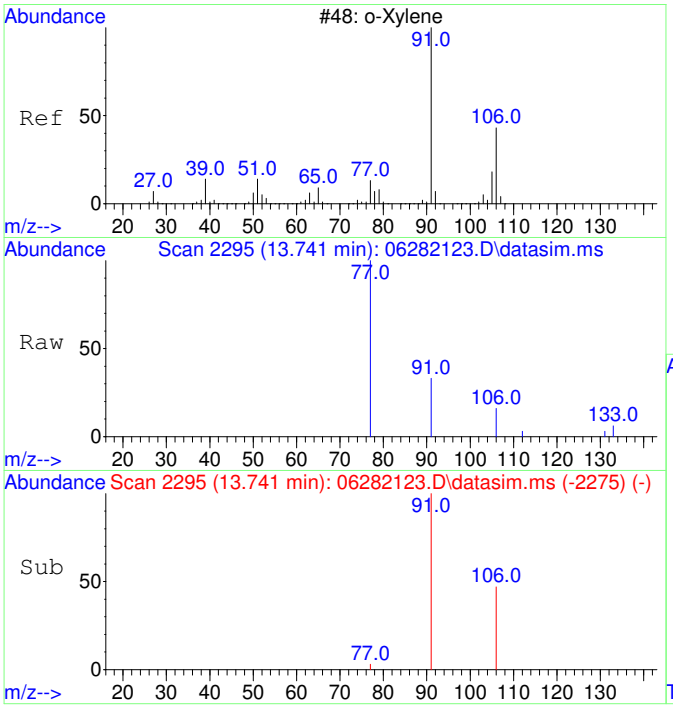


#19
m&p-Xylene
Concen: 63.99 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 91 Resp: 2295

Ion	Ratio	Lower	Upper
91	100		
106	50.1	21.4	81.4
77	18.5	0.0	42.7
105	0.0	0.0	20.0

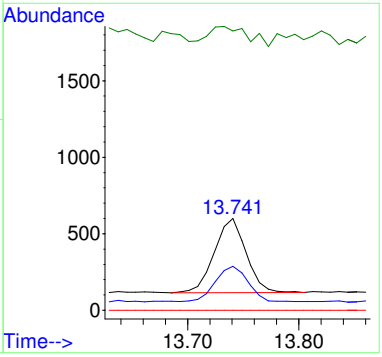


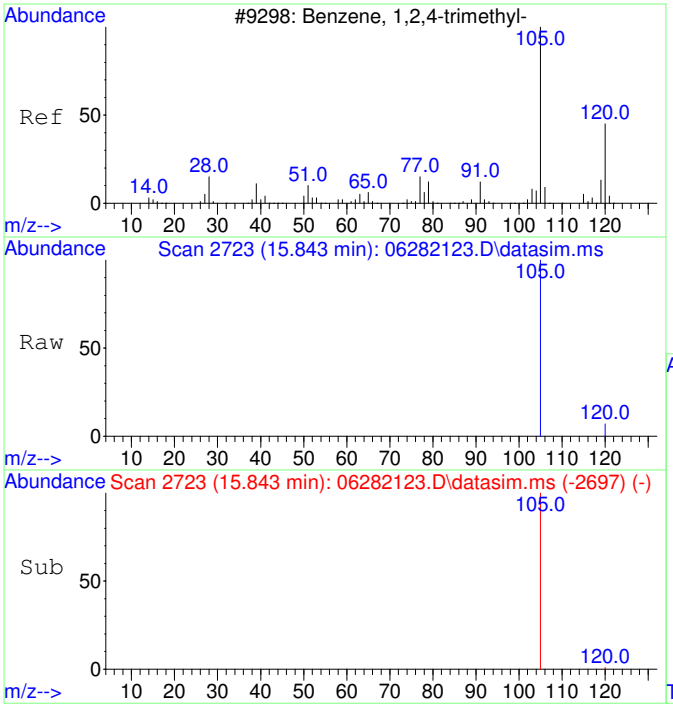


#20
o-Xylene
Concen: 24.75 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 91 Resp: 960

Ion	Ratio	Lower	Upper
91	100		
106	48.2	18.7	78.7
105	0.0	0.0	30.0
77	34.7	7.3	47.3

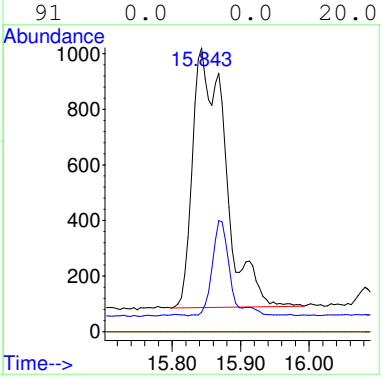


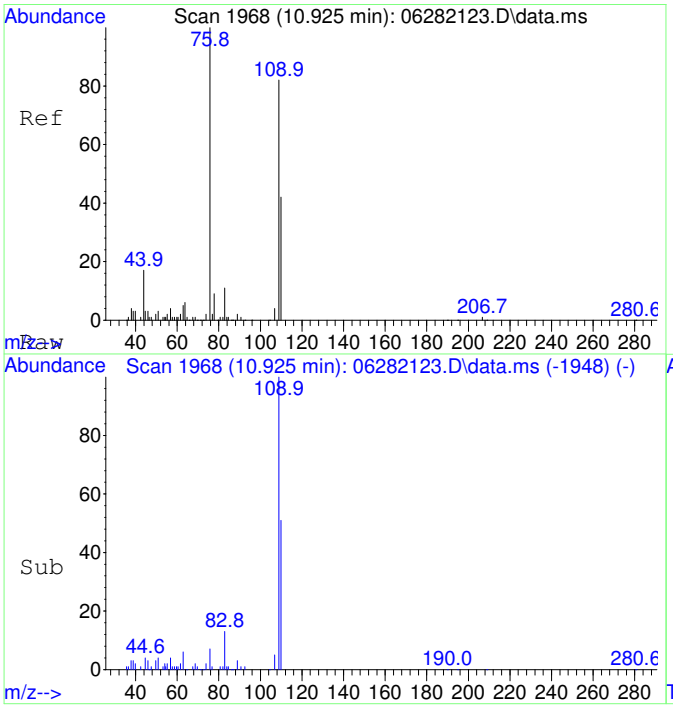


#23
1,2,4-Trimethylbenzene
Concen: 65.51 ug/L
RT: 15.843 min Scan# 2723
Delta R.T. -0.020 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:105 Resp: 3109

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

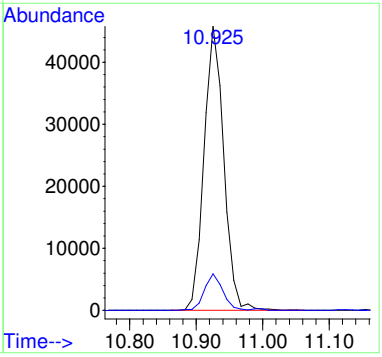


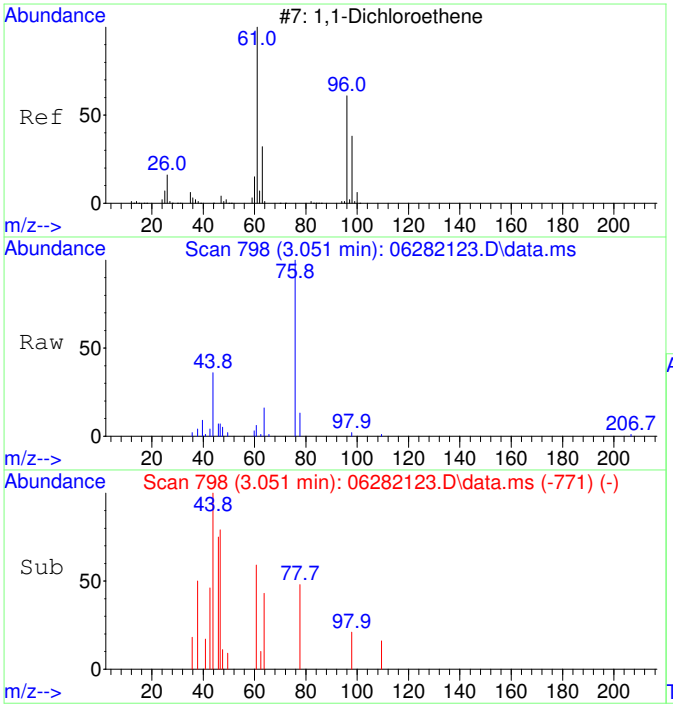


#25
2-Fluorotoluene SCAN
Concen: 4842.93 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:109 Resp: 94779

Ion	Ratio	Lower	Upper
109	100		
83	11.7	0.0	44.5

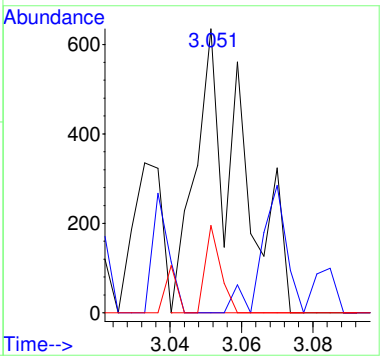


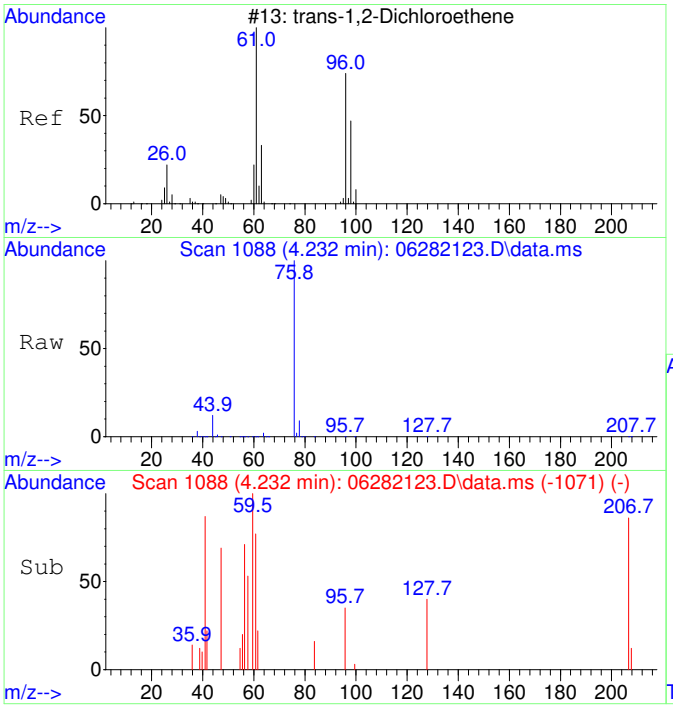


#26
1,1-Dichloroethene SCAN
Concen: 136.20 ug/L
RT: 3.051 min Scan# 798
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 61 Resp: 563

Ion	Ratio	Lower	Upper
61	100		
96	24.7	33.0	93.0#
98	10.3	12.5	72.5#

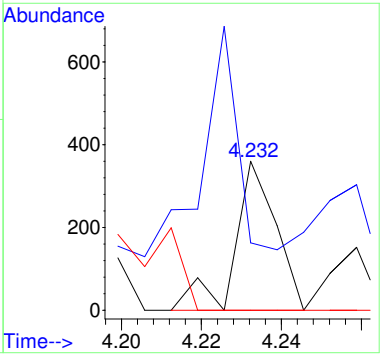


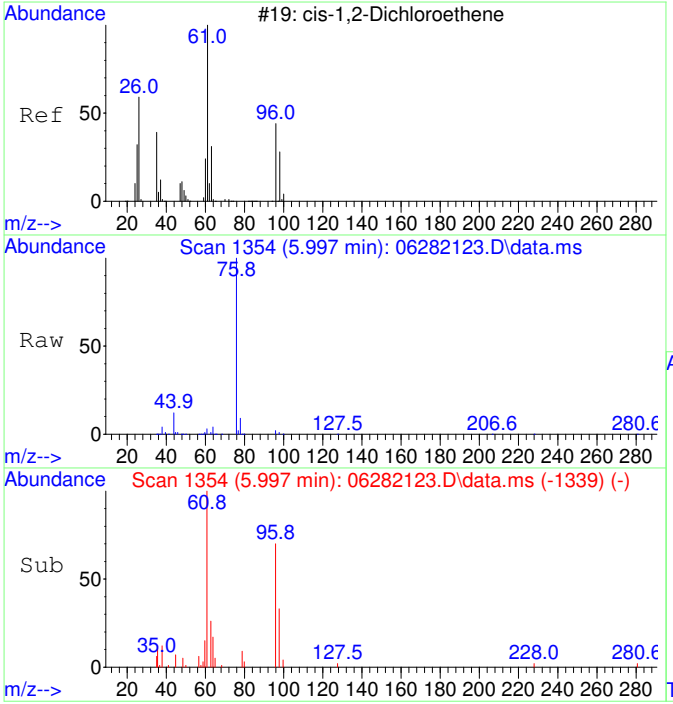


#27
trans-1,2-Dichloroethene SCAN
Concen: 57.25 ug/L
RT: 4.232 min Scan# 1088
Delta R.T. 0.013 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 61 Resp: 256

Ion	Ratio	Lower	Upper
61	100		
96	123.4	49.3	109.3#
98	108.6	24.0	84.0#

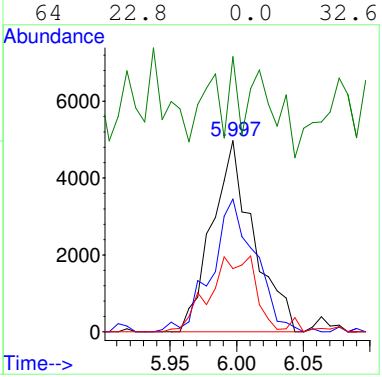


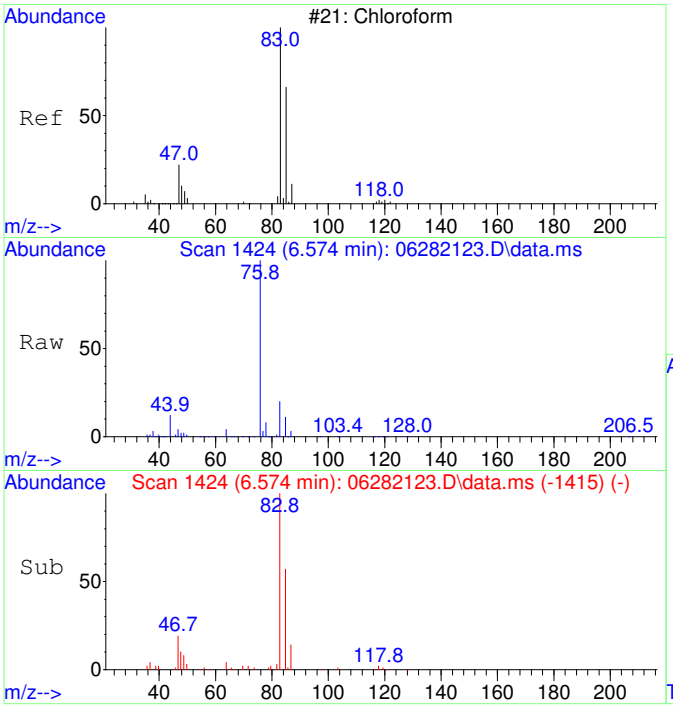


#29
cis-1,2-Dichloroethene SCAN
Concen: 1784.09 ug/L
RT: 5.997 min Scan# 1354
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 61 Resp: 10787

Ion	Ratio	Lower	Upper
61	100		
96	72.7	36.9	96.9
98	42.0	12.1	72.1
64	22.8	0.0	32.6

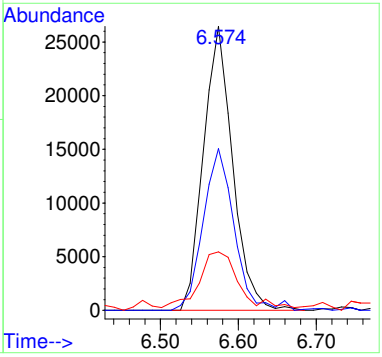


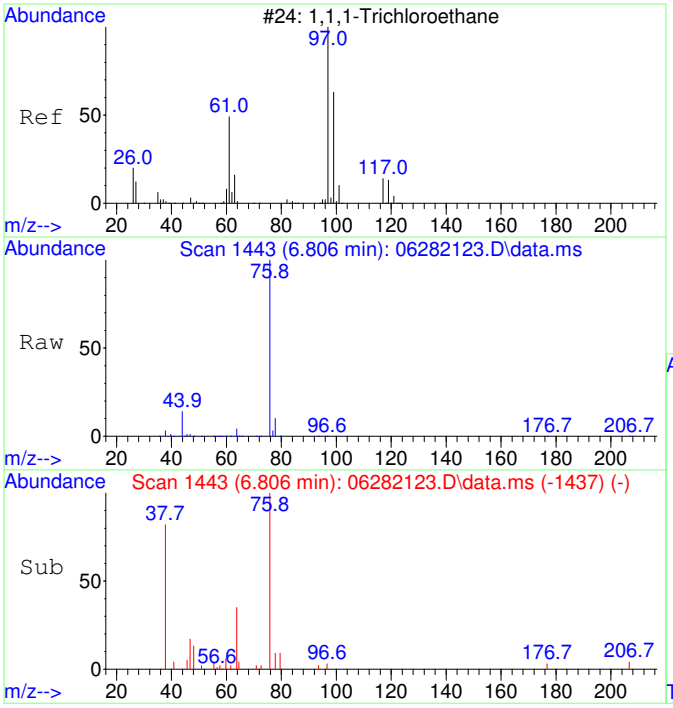


#30
Chloroform SCAN
Concen: 10771.36 ug/L
RT: 6.574 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 83 Resp: 68875

Ion	Ratio	Lower	Upper
83	100		
85	60.0	27.1	87.1
47	25.4	7.5	67.5

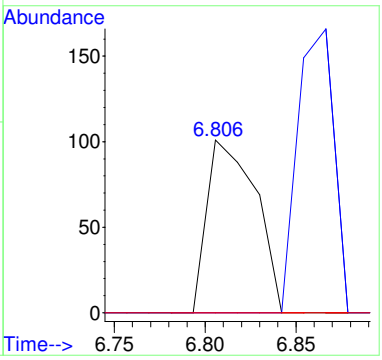


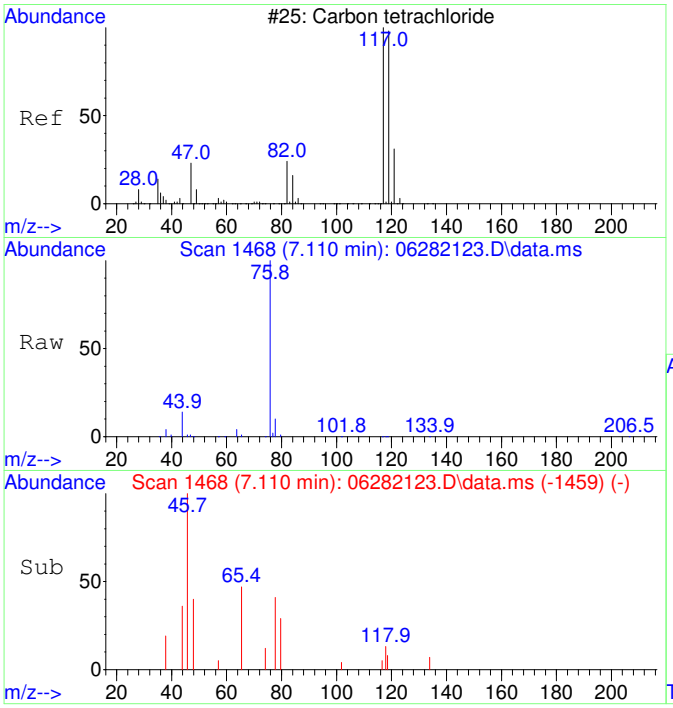


#31
1,1,1-Trichloroethane SCAN
Concen: 31.47 ug/L
RT: 6.806 min Scan# 1443
Delta R.T. -0.025 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 97 Resp: 188

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

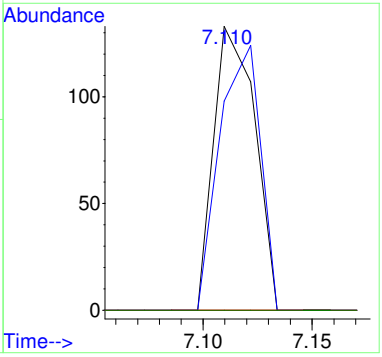


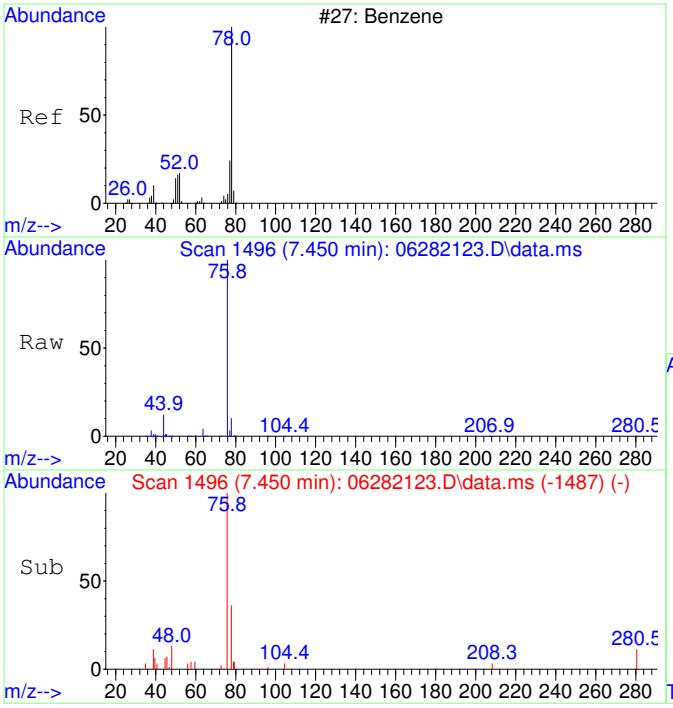


#32
Carbon tetrachloride SCAN
Concen: 35.50 ug/L
RT: 7.110 min Scan# 1468
Delta R.T. 0.012 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:117 Resp: 175

Ion	Ratio	Lower	Upper
117	100		
119	92.6	68.0	128.0
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

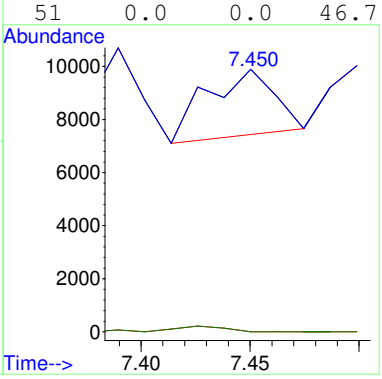


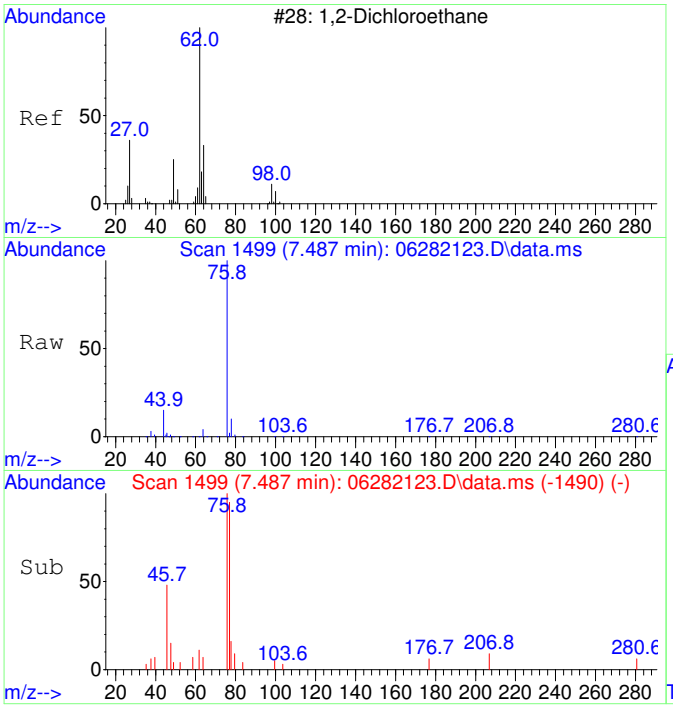


#33
Benzene SCAN
Concen: 367.66 ug/L
RT: 7.450 min Scan# 1496
Delta R.T. 0.012 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 78 Resp: 5515

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

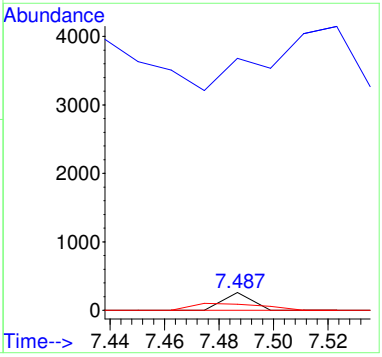


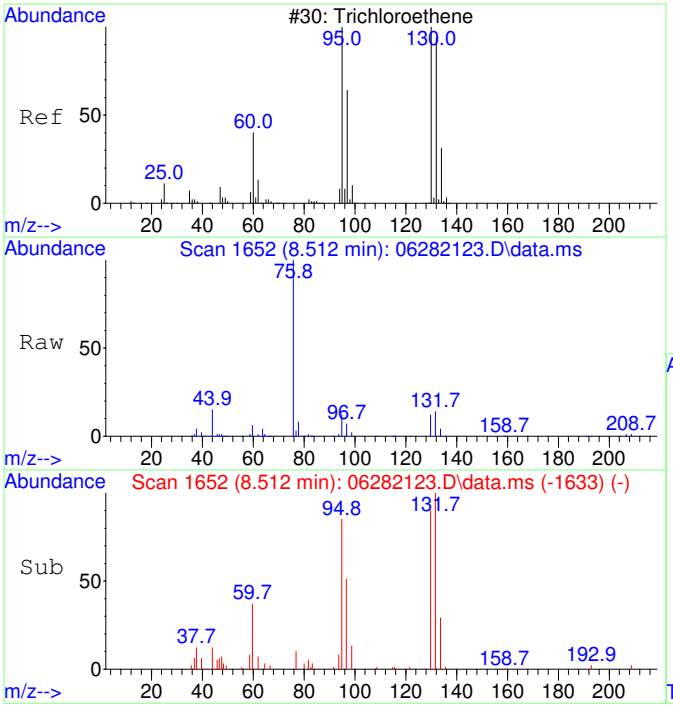


#34
1,2-Dichloroethane SCAN
Concen: 40.39 ug/L
RT: 7.487 min Scan# 1499
Delta R.T. 0.012 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 62 Resp: 191

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	96.9	4.1	64.1#

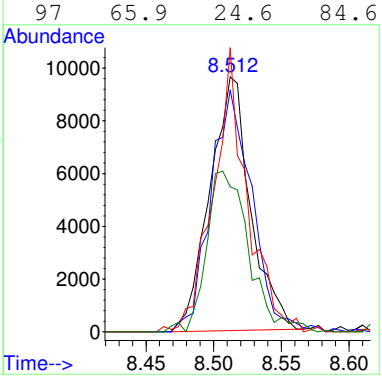


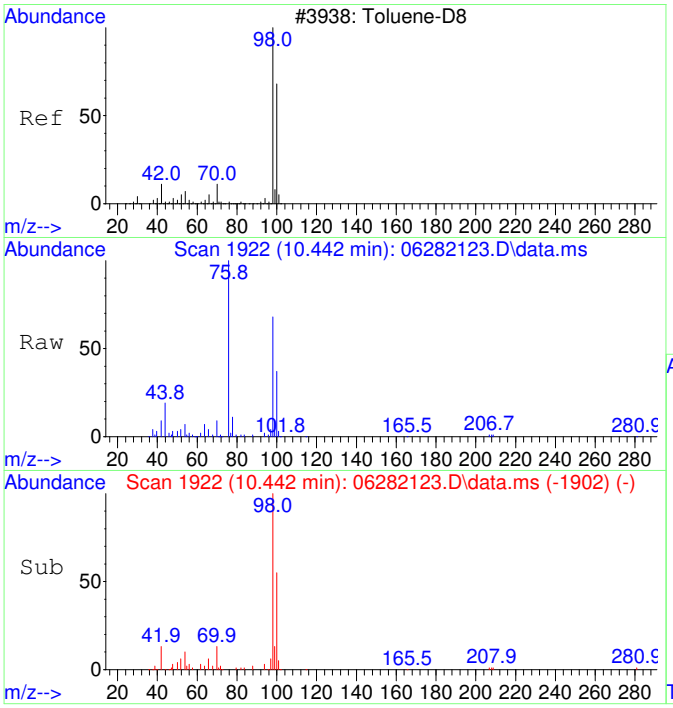


#35
Trichloroethene SCAN
Concen: 5279.81 ug/L
RT: 8.512 min Scan# 1652
Delta R.T. 0.005 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:130 Resp: 20187

Ion	Ratio	Lower	Upper
130	100		
95	97.0	60.0	120.0
132	91.5	54.3	114.3
97	65.9	24.6	84.6

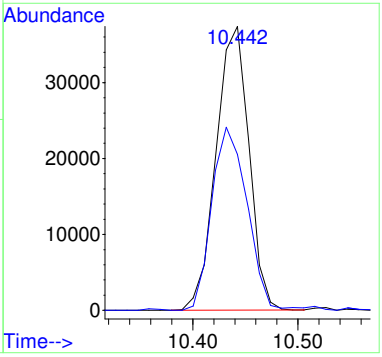


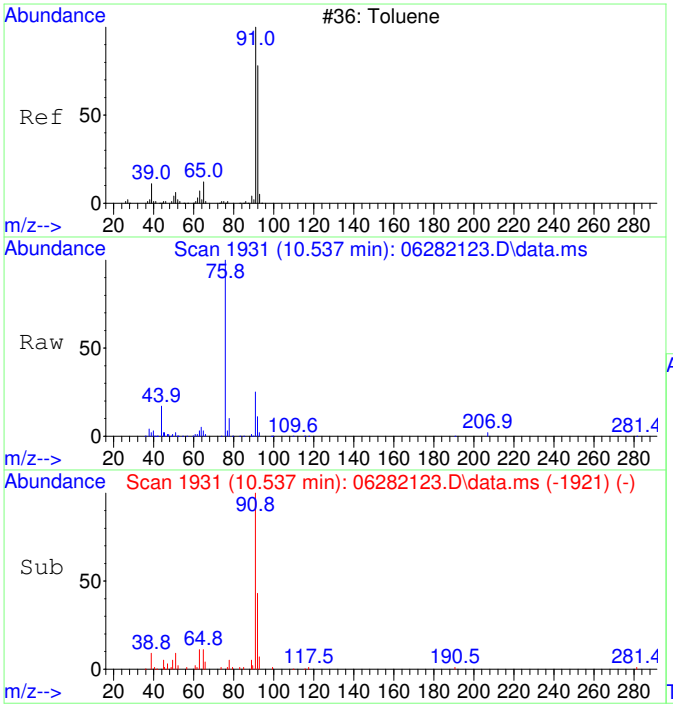


#36
Toluene-d8 SCAN
Concen: 4787.57 ug/L
RT: 10.442 min Scan# 1922
Delta R.T. 0.010 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 98 Resp: 81265

Ion	Ratio	Lower	Upper
98	100		
100	69.9	36.1	96.1

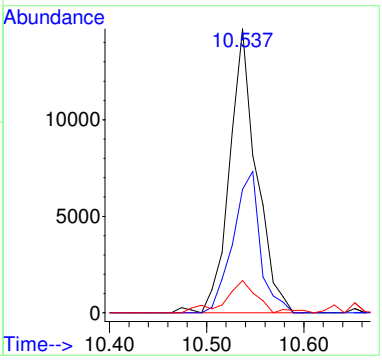


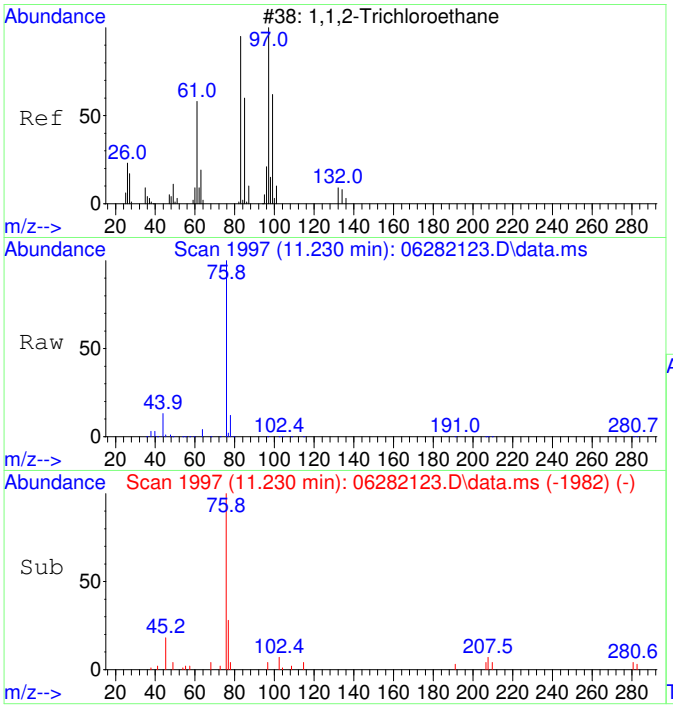


#37
Toluene SCAN
Concen: 1288.50 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 91 Resp: 28307

Ion	Ratio	Lower	Upper
91	100		
92	50.2	26.5	86.5
65	13.7	0.0	40.6

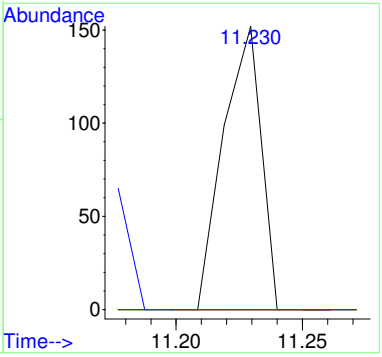


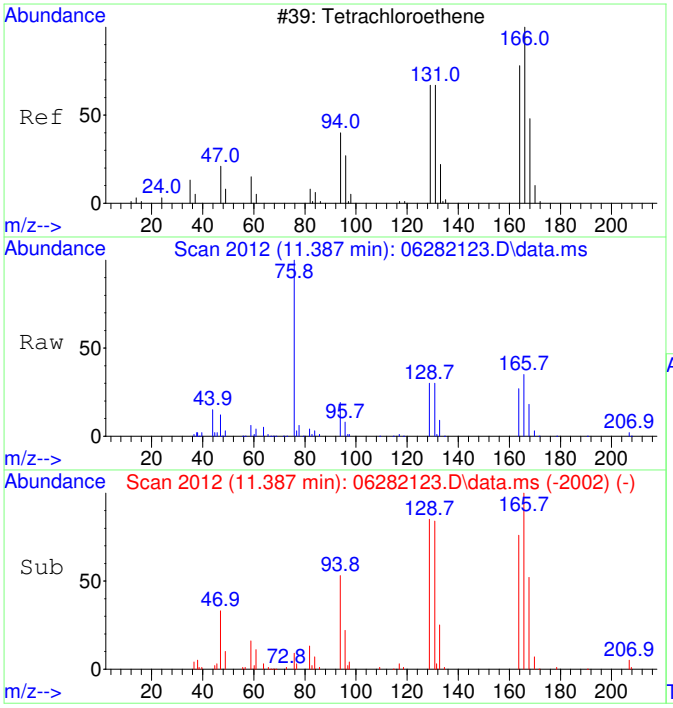


#38
1,1,2-Trichloroethane SCAN
Concen: 30.19 ug/L
RT: 11.230 min Scan# 1997
Delta R.T. 0.052 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 97 Resp: 158

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

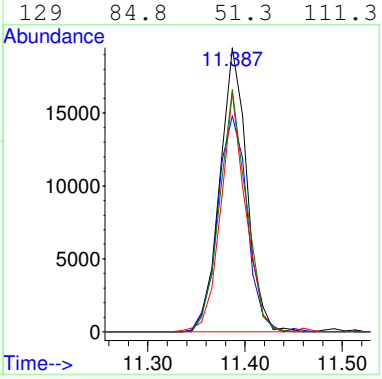


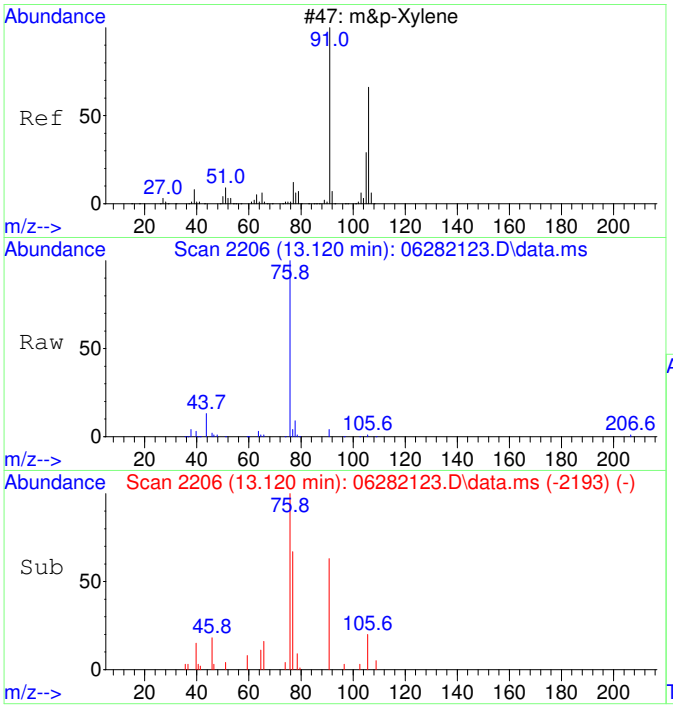


#39
Tetrachloroethene SCAN
Concen: 7057.94 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:166 Resp: 37339

Ion	Ratio	Lower	Upper
166	100		
164	83.7	53.9	113.9
131	77.8	45.6	105.6
129	84.8	51.3	111.3

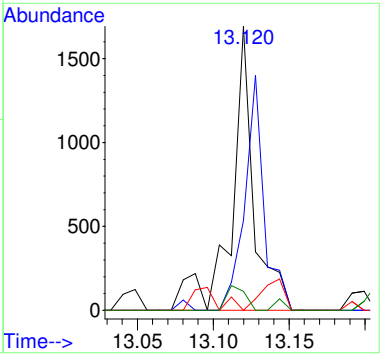


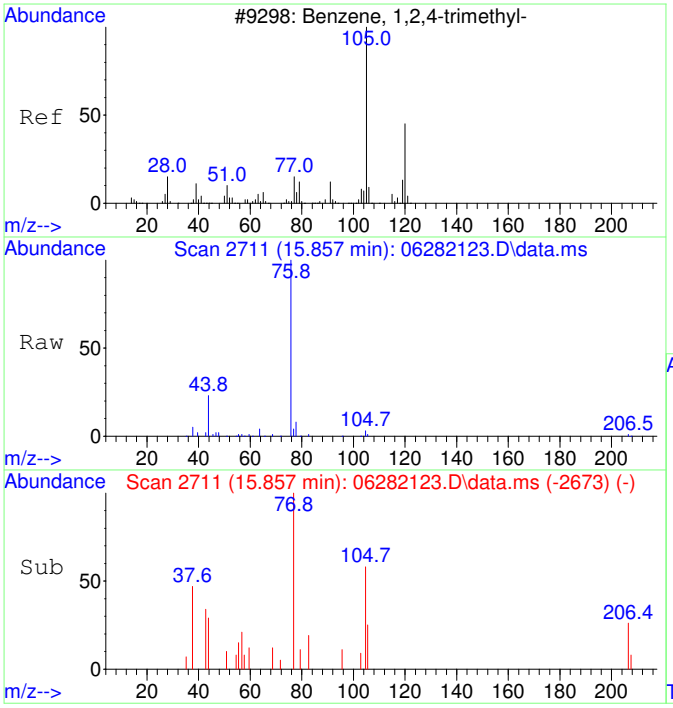


#43
m&p-Xylene SCAN
Concen: 39.76 ug/L
RT: 13.120 min Scan# 2206
Delta R.T. -0.000 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion: 91 Resp: 1737

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.2	81.2#
105	0.0	0.0	51.6
51	7.1	0.0	41.7

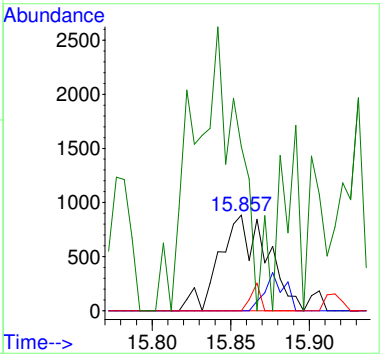




#47
1,2,4-Trimethylbenzene SCAN
Concen: 68.22 ug/L
RT: 15.857 min Scan# 2711
Delta R.T. -0.010 min
Lab File: 06282123.D
Acq: 28 Jun 2021 18:37

Tgt Ion:105 Resp: 1864

Ion	Ratio	Lower	Upper
105	100		
120	16.7	15.6	75.6
119	5.7	0.0	38.2
77	0.0	0.0	44.0



2106037-16

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282124.D
Acq On : 28 Jun 2021 19:04
InstName : AG5975C
Operator : TD
Sample : 2106037-16
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 29 06:07:19 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

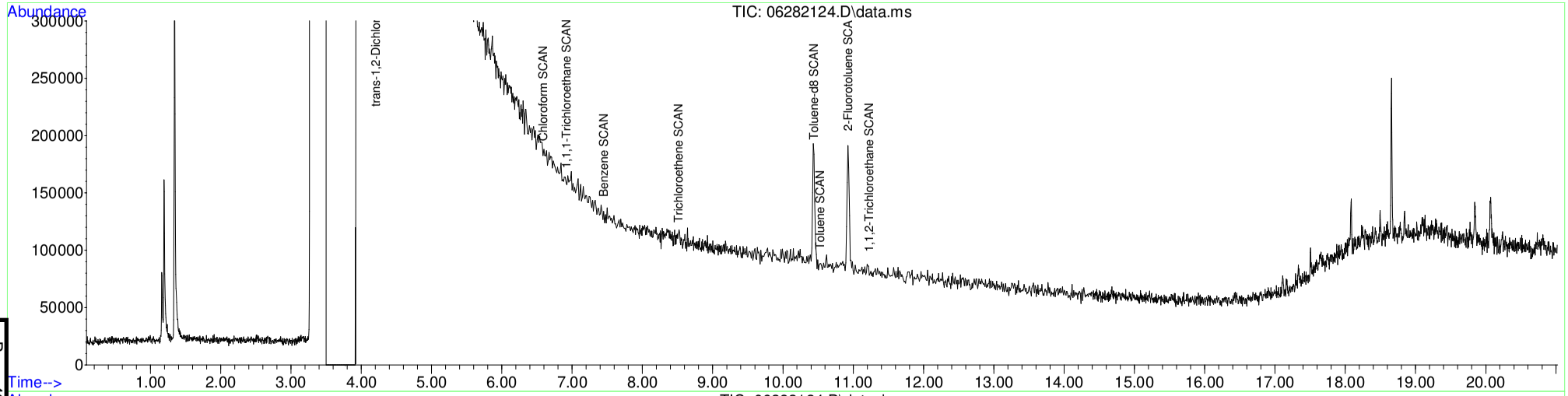
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.926	109	168896	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.433	98	145306	5022.60	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.45%			
Target Compounds						Qvalue
6] Chloroform	6.564	83	11063	1129.84	ug/L #	99
11] Trichloroethene	8.513	130	1193	162.86	ug/L	94
13] Toluene	10.528	91	2869	76.19	ug/L	99
15] Tetrachloroethene	11.388	166	346	35.92	ug/L #	99
25) 2-Fluorotoluene SCAN	10.925	109	98904	4757.63	ug/L	99
27) trans-1,2-Dichloroethe...	4.199	61	124	26.10	ug/L #	1
30) Chloroform SCAN	6.587	83	8165	1202.11	ug/L	91
31) 1,1,1-Trichloroethane ...	6.915	97	304	47.90	ug/L #	28
33) Benzene SCAN	7.450	78	10106	634.25	ug/L	91
35) Trichloroethene SCAN	8.507	130	667	164.23	ug/L #	73
36) Toluene-d8 SCAN	10.442	98	90484	5018.39	ug/L	96
37) Toluene SCAN	10.526	91	2139	91.66	ug/L #	31
38) 1,1,2-Trichloroethane ...	11.219	97	259	46.59	ug/L #	14

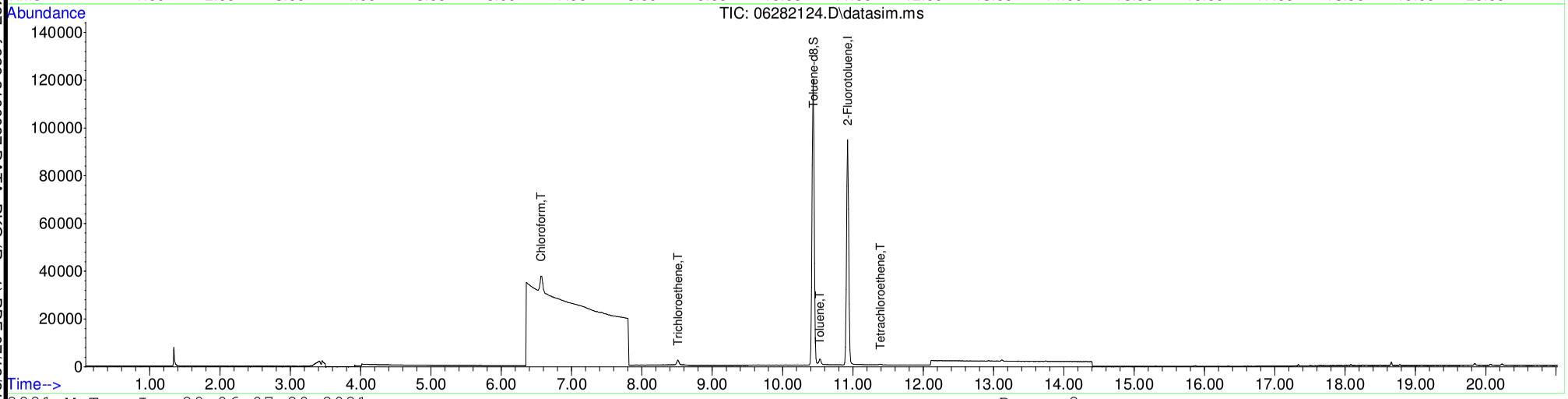
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282124.D
Acq On : 28 Jun 2021 19:04
InstName : AG5975C
Operator : TD
Sample : 2106037-16
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 29 06:07:19 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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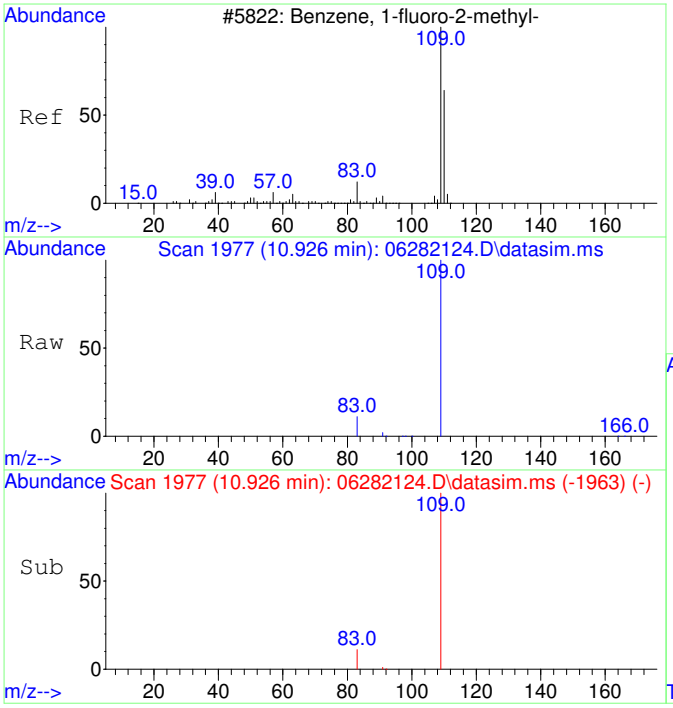
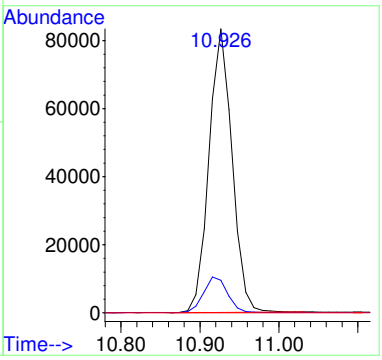
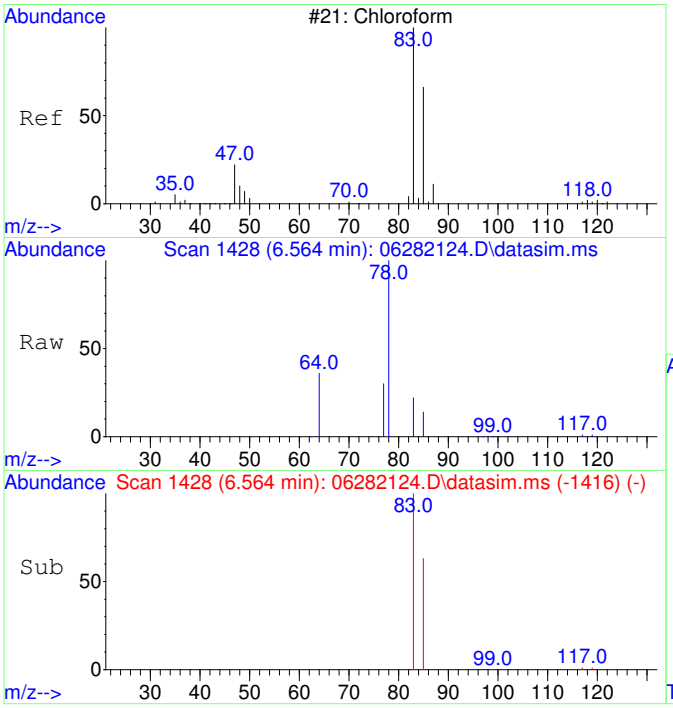


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.926 min Scan# 1977
Delta R.T. -0.001 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion:109 Resp: 168896

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

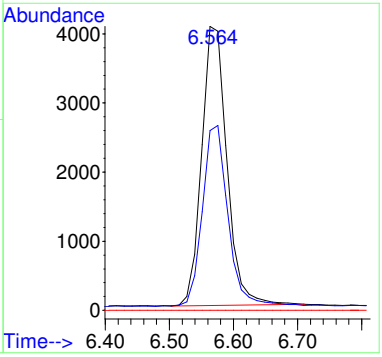


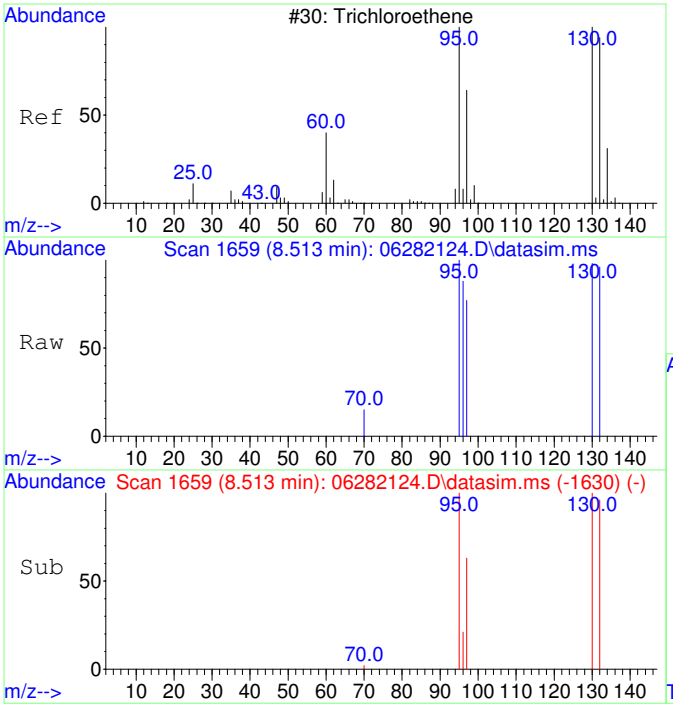


#6
Chloroform
Concen: 1129.84 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.000 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 83 Resp: 11063

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.5	94.5
87	0.0	0.0	20.0

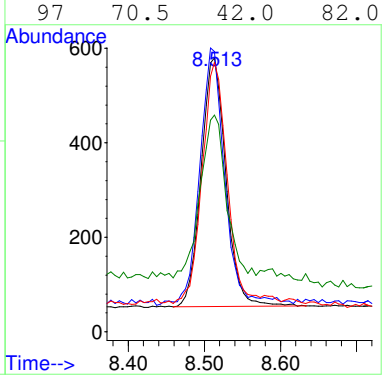


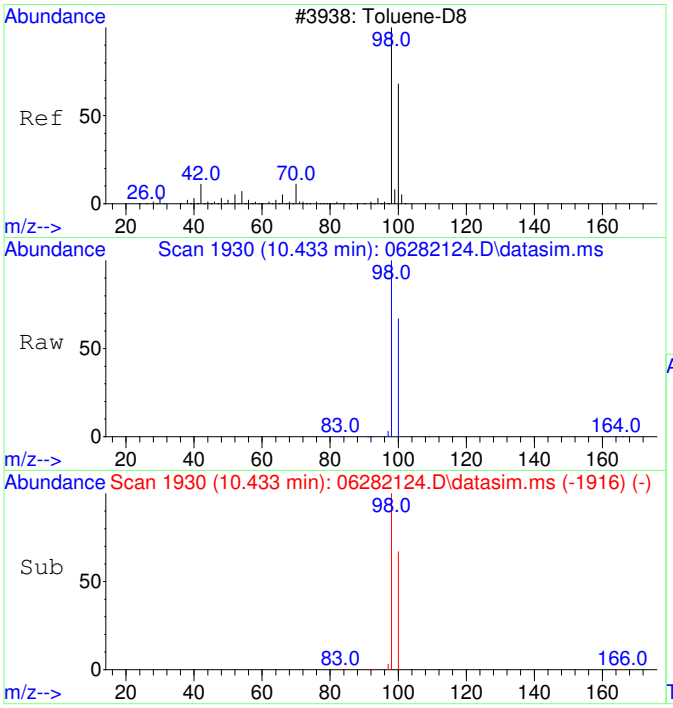


#11
Trichloroethene
Concen: 162.86 ug/L
RT: 8.513 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion:130 Resp: 1193

Ion	Ratio	Lower	Upper
130	100		
95	103.5	65.8	125.8
132	97.1	75.8	115.8
97	70.5	42.0	82.0

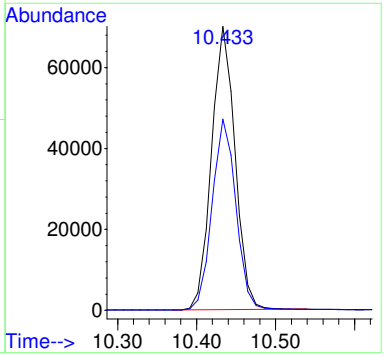


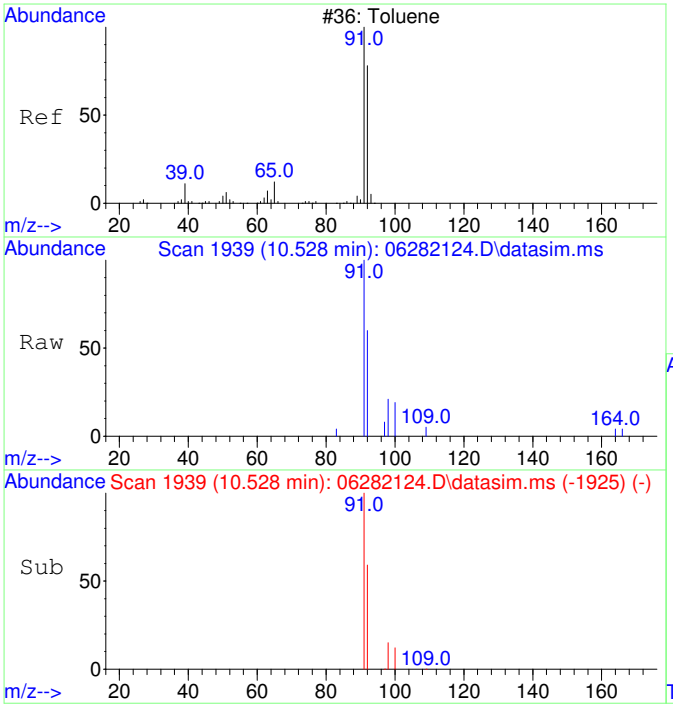


#12
Toluene-d8
Concen: 5022.60 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 98 Resp: 145306

Ion	Ratio	Lower	Upper
98	100		
100	67.5	37.3	97.3

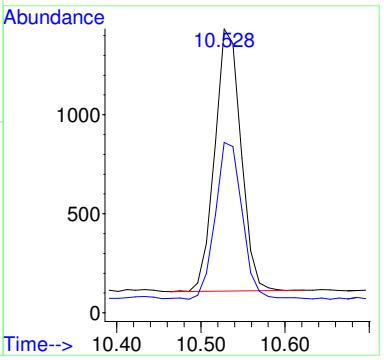


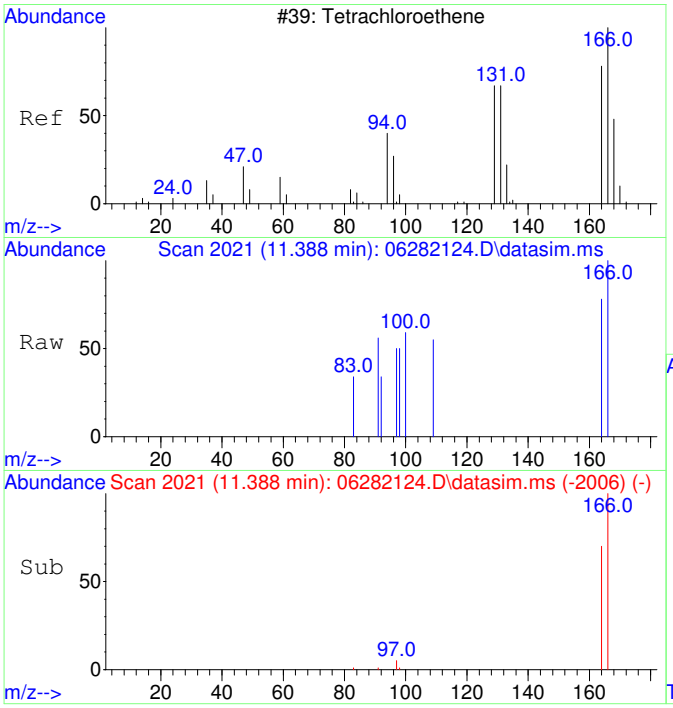


#13
Toluene
Concen: 76.19 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.000 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 91 Resp: 2869

Ion	Ratio	Lower	Upper
91	100		
92	60.7	30.2	90.2

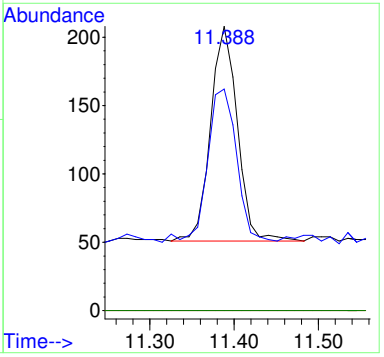


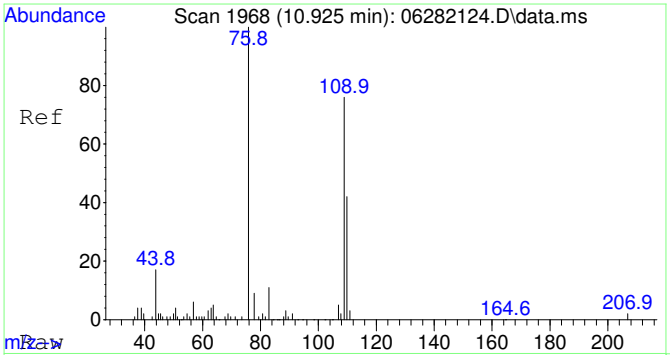


#15
Tetrachloroethene
Concen: 35.92 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.010 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion:166 Resp: 346

Ion	Ratio	Lower	Upper
166	100		
164	77.2	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

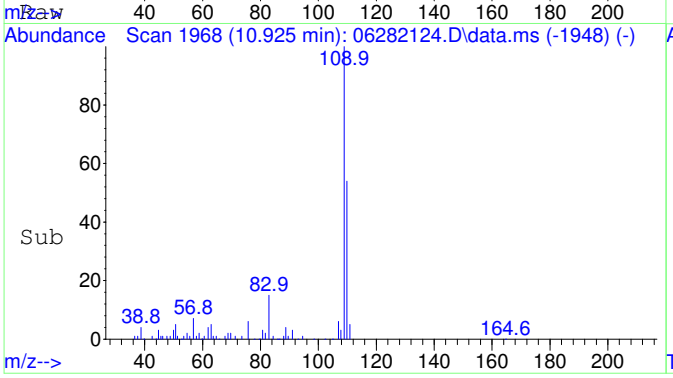


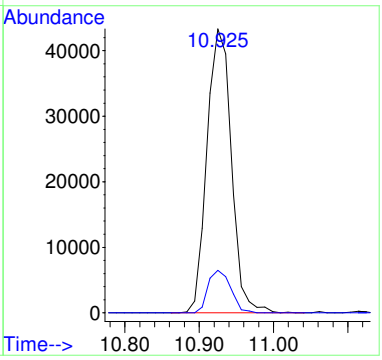


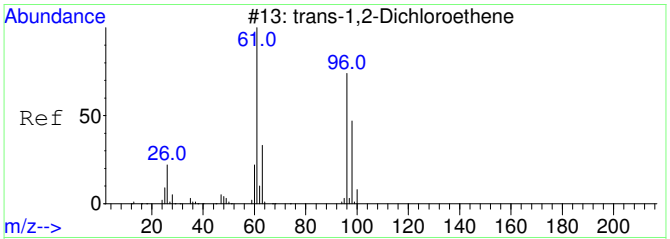
#25
2-Fluorotoluene SCAN
Concen: 4757.63 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

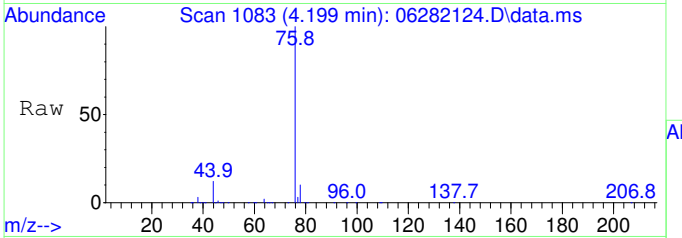
Tgt Ion:109 Resp: 98904

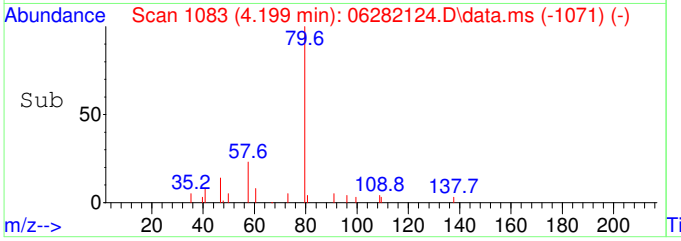
Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	44.5







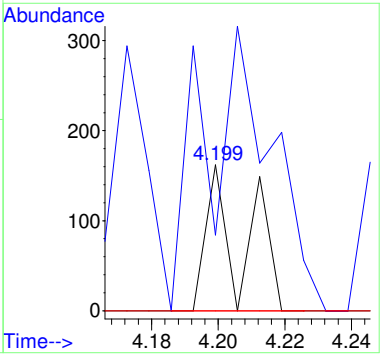


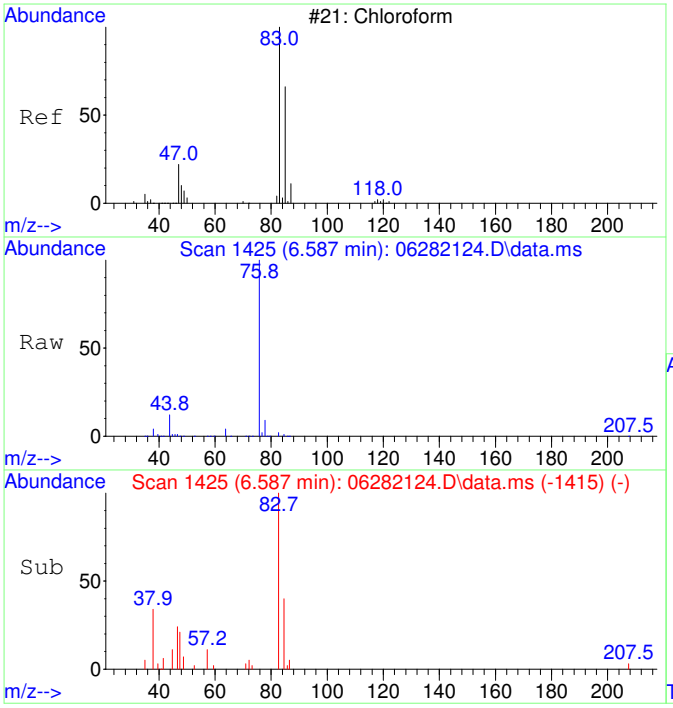


#27
trans-1,2-Dichloroethene SCAN
Concen: 26.10 ug/L
RT: 4.199 min Scan# 1083
Delta R.T. -0.020 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 61 Resp: 124

Ion	Ratio	Lower	Upper
61	100		
96	357.3	49.3	109.3#
98	0.0	24.0	84.0#

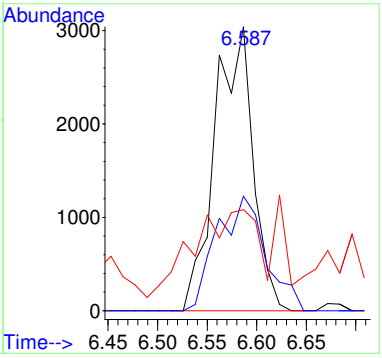


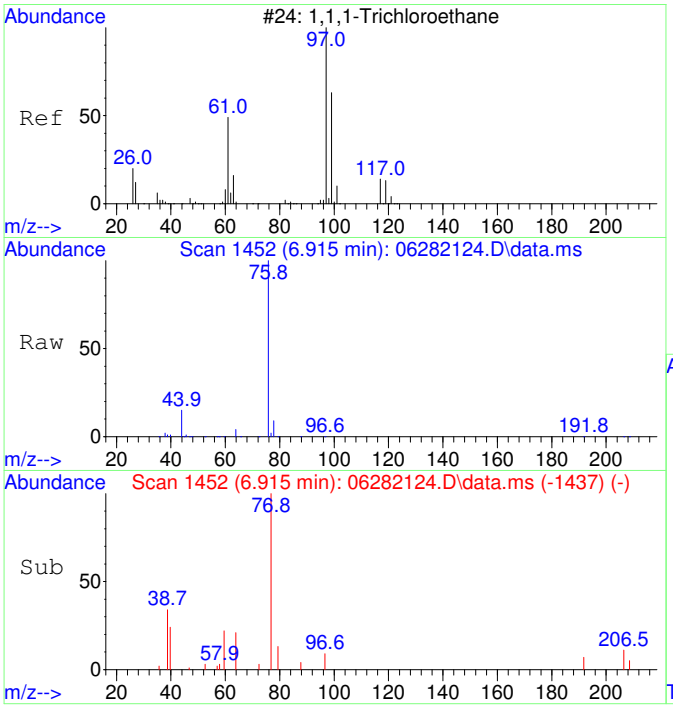


#30
Chloroform SCAN
Concen: 1202.11 ug/L
RT: 6.587 min Scan# 1425
Delta R.T. 0.024 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 83 Resp: 8165

Ion	Ratio	Lower	Upper
83	100		
85	51.3	27.1	87.1
47	43.8	7.5	67.5

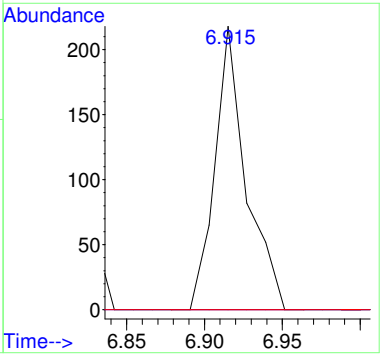


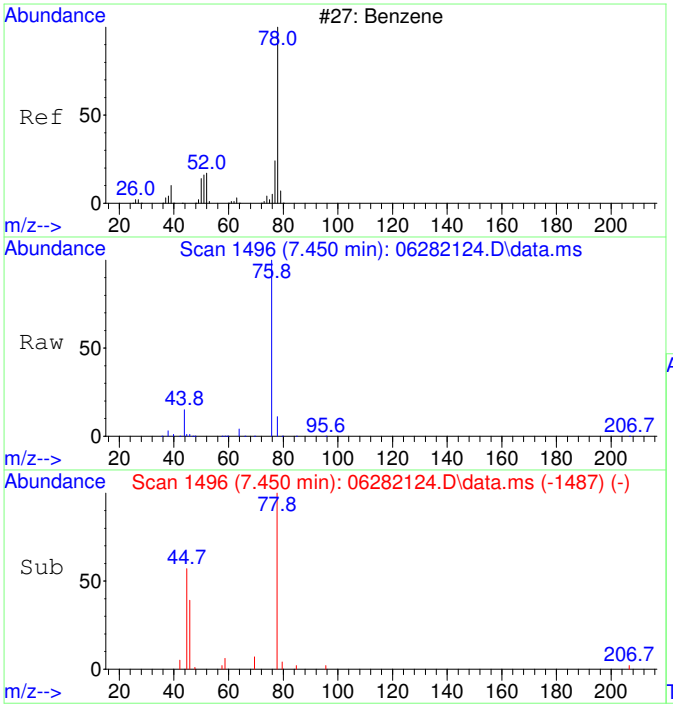


#31
1,1,1-Trichloroethane SCAN
Concen: 47.90 ug/L
RT: 6.915 min Scan# 1452
Delta R.T. 0.085 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 97 Resp: 304

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

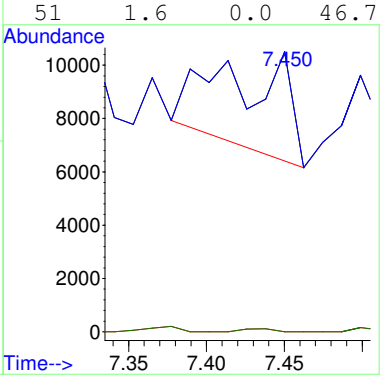


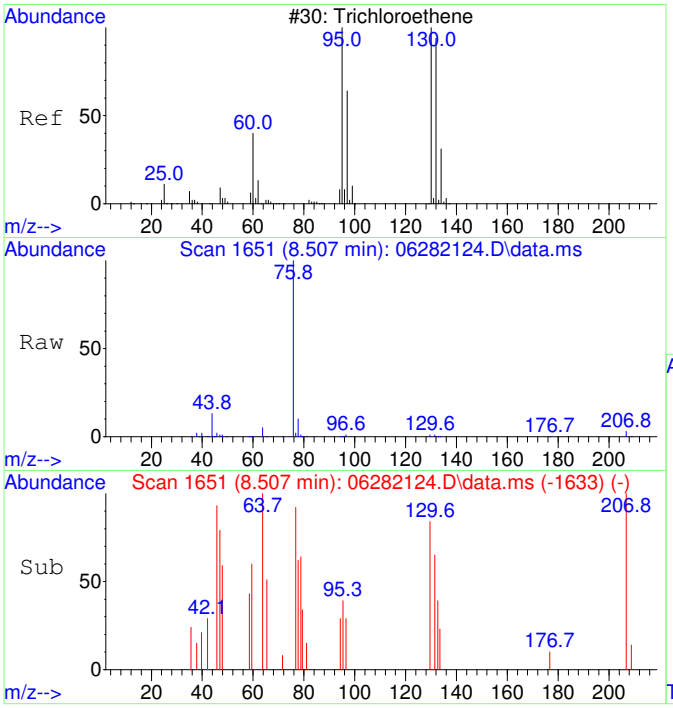


#33
Benzene SCAN
Concen: 634.25 ug/L
RT: 7.450 min Scan# 1496
Delta R.T. 0.012 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 78 Resp: 10106

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.6	0.0	46.7
51	1.6	0.0	46.7

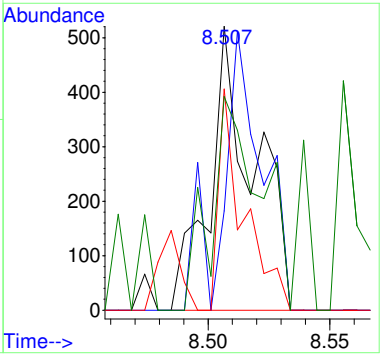


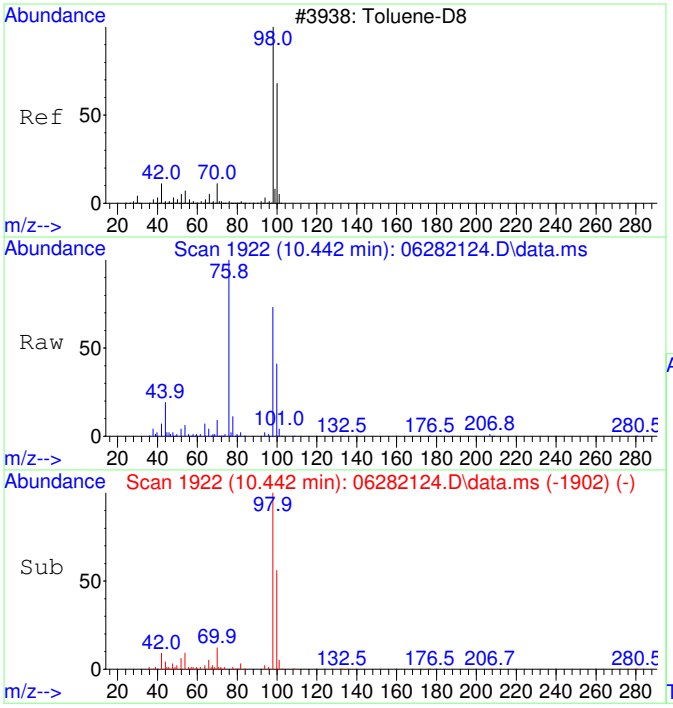


#35
Trichloroethene SCAN
Concen: 164.23 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. -0.000 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion:130 Resp: 667

Ion	Ratio	Lower	Upper
130	100		
95	88.2	60.0	120.0
132	43.2	54.3	114.3#
97	83.4	24.6	84.6

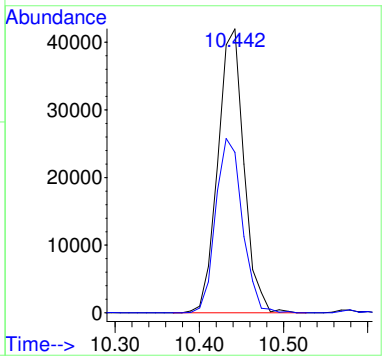


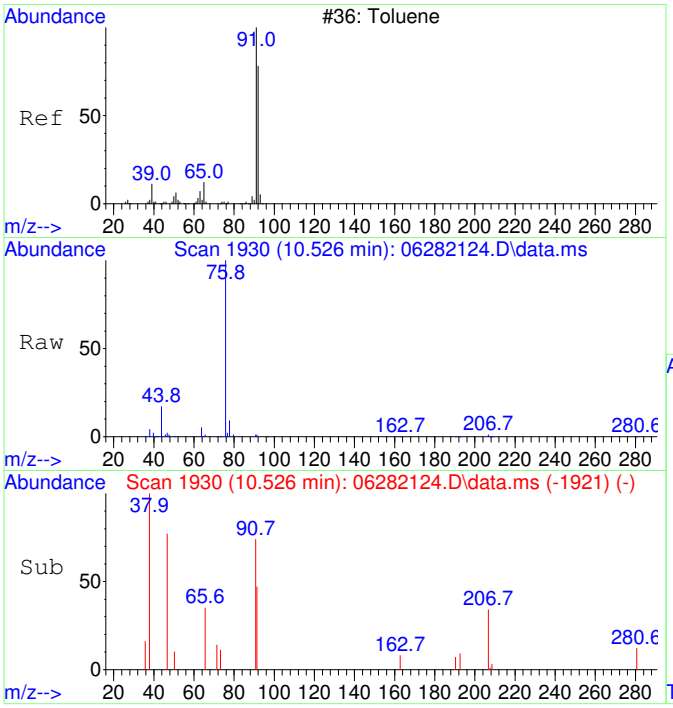


#36
Toluene-d8 SCAN
Concen: 5018.39 ug/L
RT: 10.442 min Scan# 1922
Delta R.T. 0.010 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 98 Resp: 90484

Ion	Ratio	Lower	Upper
98	100		
100	62.9	36.1	96.1

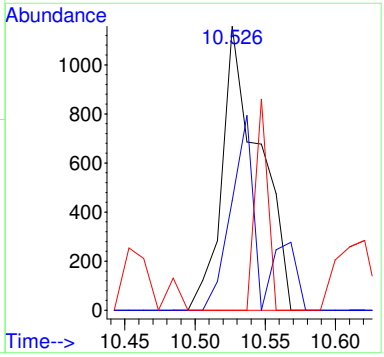


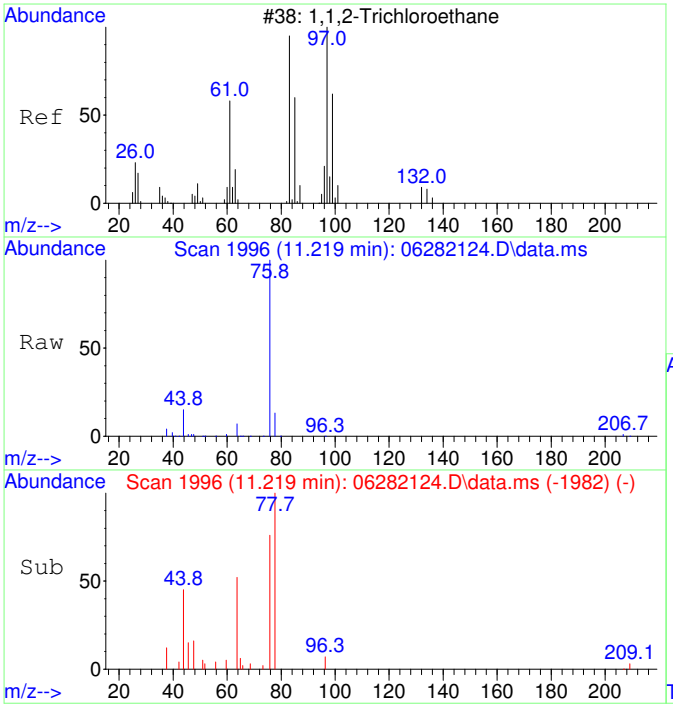


#37
Toluene SCAN
Concen: 91.66 ug/L
RT: 10.526 min Scan# 1930
Delta R.T. -0.011 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 91 Resp: 2139

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.5	86.5#
65	0.0	0.0	40.6

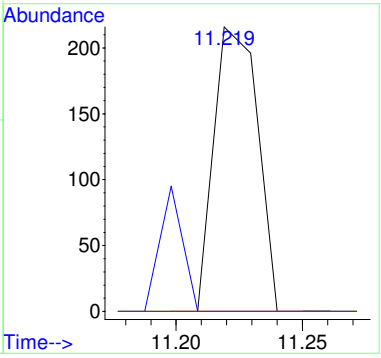




#38
1,1,2-Trichloroethane SCAN
Concen: 46.59 ug/L
RT: 11.219 min Scan# 1996
Delta R.T. 0.042 min
Lab File: 06282124.D
Acq: 28 Jun 2021 19:04

Tgt Ion: 97 Resp: 259

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#



2106037-17

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282125.D
Acq On : 28 Jun 2021 19:30
InstName : AG5975C
Operator : TD
Sample : 2106037-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 29 06:07:23 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

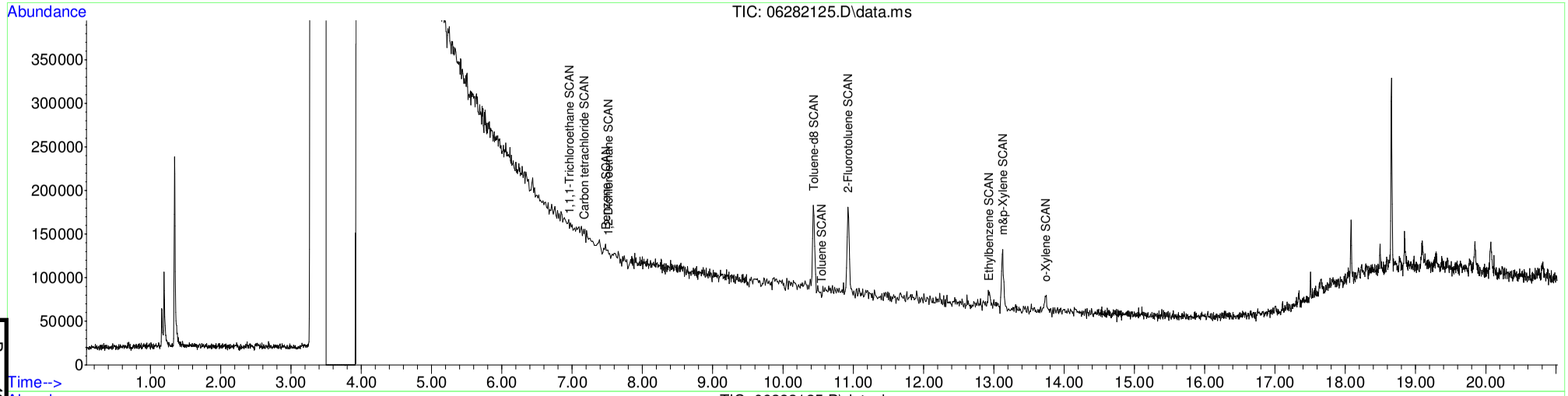
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.926	109	151167	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	130447	5037.80 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.76%		
Target Compounds					Qvalue
18] Ethylbenzene	12.931	91	24719	571.06 ug/L #	99
19] m&p-Xylene	13.121	91	77950	2285.96 ug/L #	99
20] o-Xylene	13.741	91	22287	604.31 ug/L #	89
25) 2-Fluorotoluene SCAN	10.925	109	87075	4679.86 ug/L	98
31) 1,1,1-Trichloroethane ...	6.964	97	141	24.82 ug/L #	28
32) Carbon tetrachloride SCAN	7.170	117	135	28.80 ug/L #	17
33) Benzene SCAN	7.475	78	2168	152.02 ug/L	93
34) 1,2-Dichloroethane SCAN	7.511	62	249	55.38 ug/L #	36
36) Toluene-d8 SCAN	10.432	98	79630	4934.37 ug/L	99
37) Toluene SCAN	10.547	91	513	24.56 ug/L #	60
42) Ethylbenzene SCAN	12.929	91	15878	570.28 ug/L #	90
43) m&p-Xylene SCAN	13.128	91	48887	1176.95 ug/L	97
44) o-Xylene SCAN	13.732	91	13399	586.40 ug/L	94

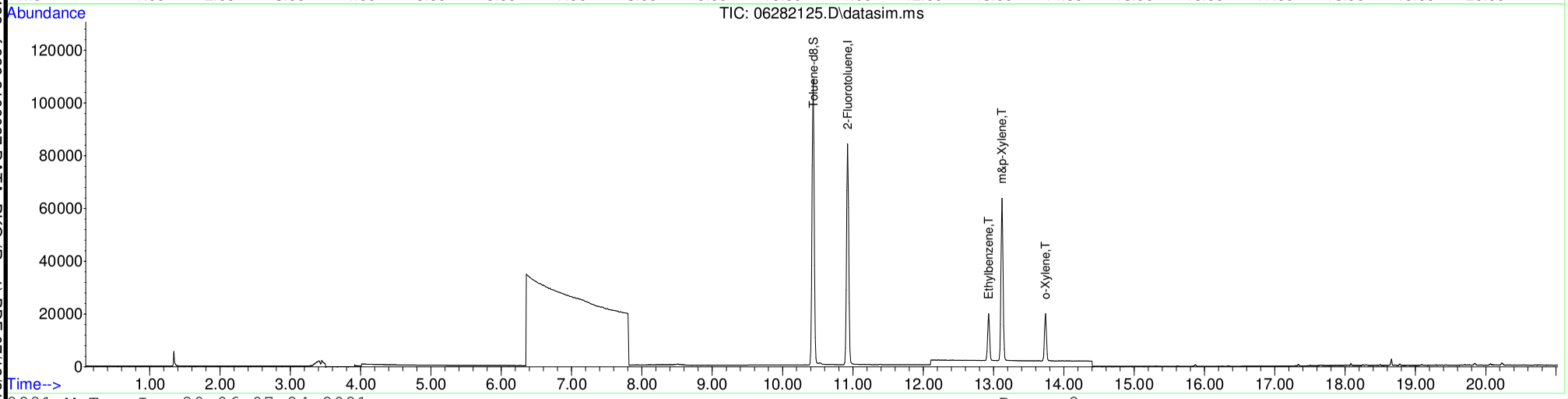
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282125.D
Acq On : 28 Jun 2021 19:30
InstName : AG5975C
Operator : TD
Sample : 2106037-17
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 29 06:07:23 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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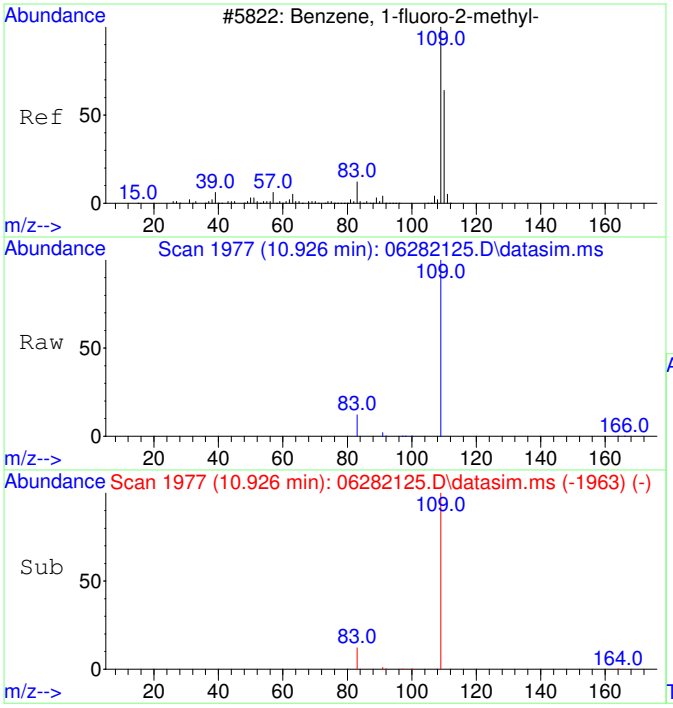
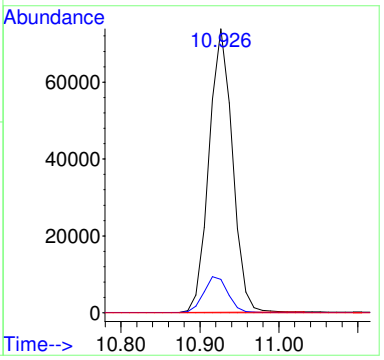
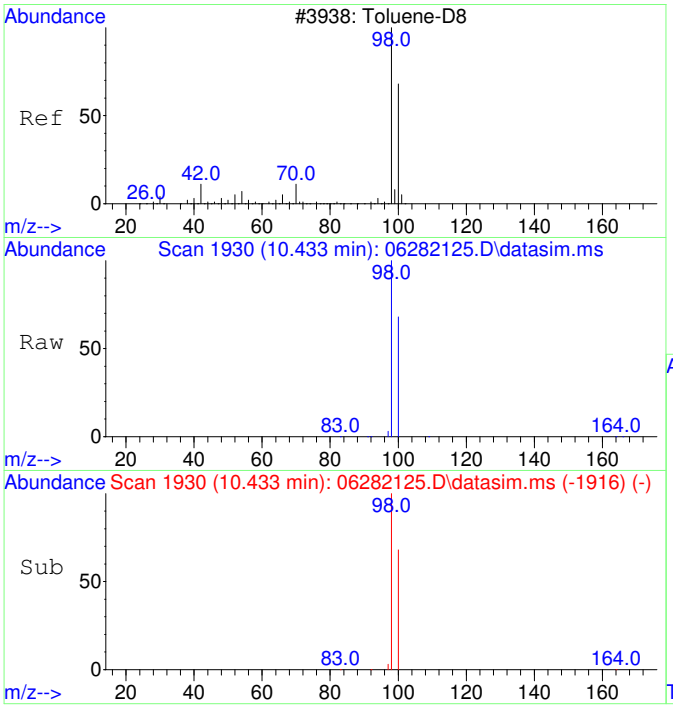


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.926 min Scan# 1977
Delta R.T. -0.001 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion:109 Resp: 151167

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

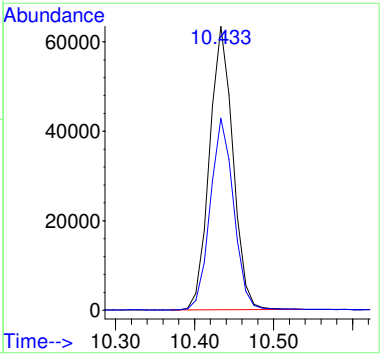


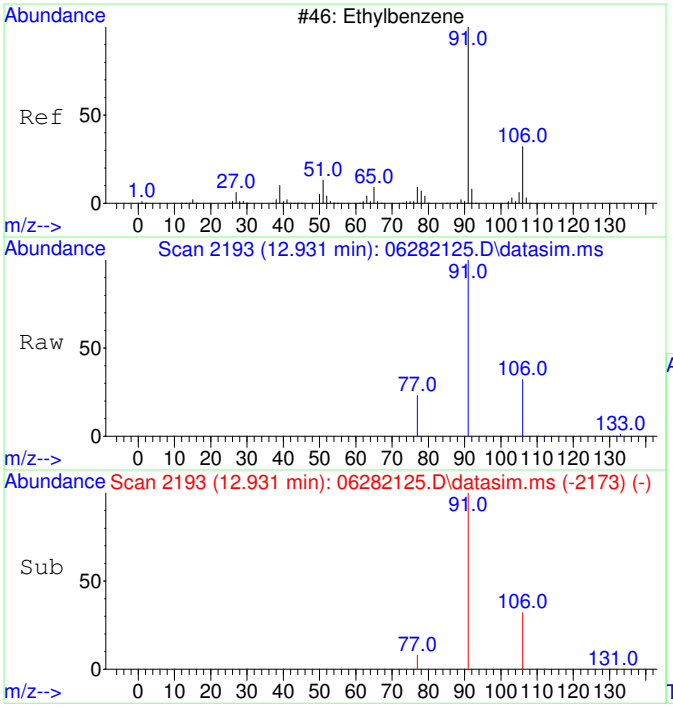


#12
Toluene-d8
Concen: 5037.80 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 98 Resp: 130447

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.3	97.3

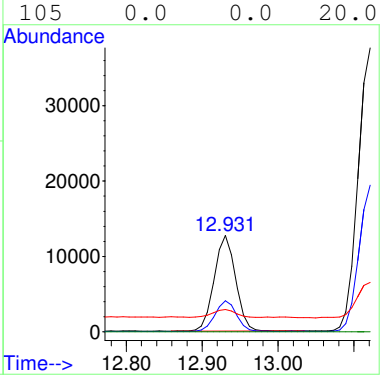


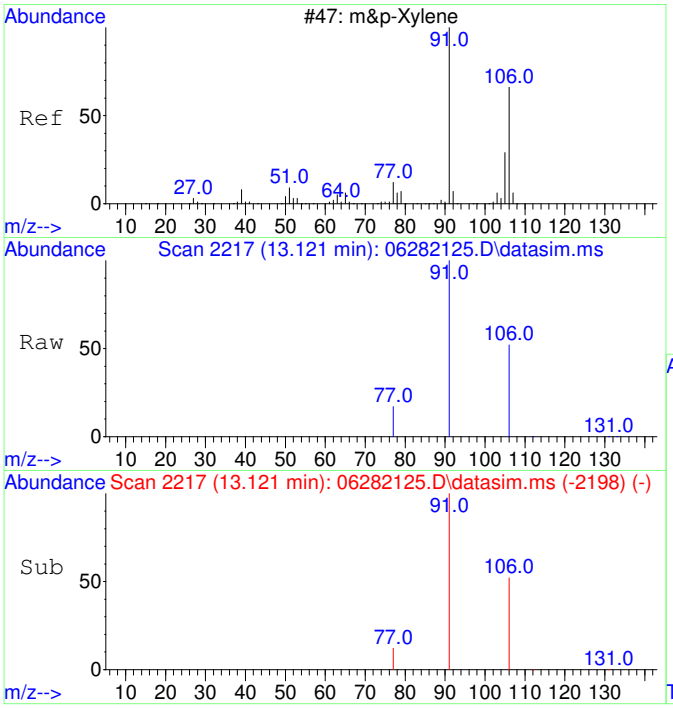


#18
Ethylbenzene
Concen: 571.06 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 91 Resp: 24719

Ion	Ratio	Lower	Upper
91	100		
106	32.2	2.8	62.8
77	9.1	0.0	38.2
105	0.0	0.0	20.0

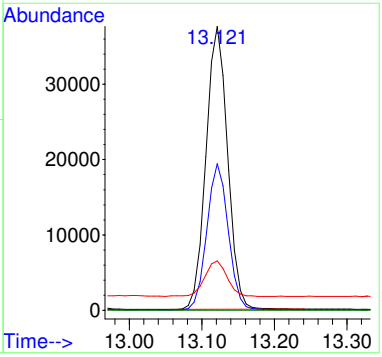


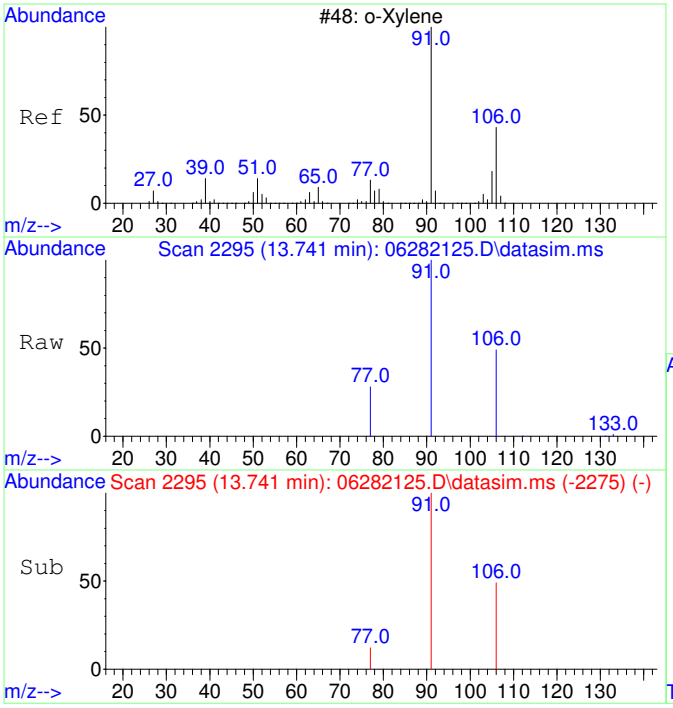


#19
m&p-Xylene
Concen: 2285.96 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. -0.000 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 91 Resp: 77950

Ion	Ratio	Lower	Upper
91	100		
106	50.9	21.4	81.4
77	12.9	0.0	42.7
105	0.0	0.0	20.0

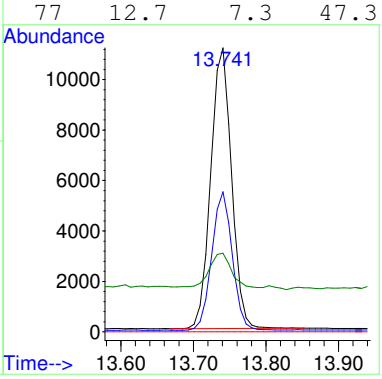


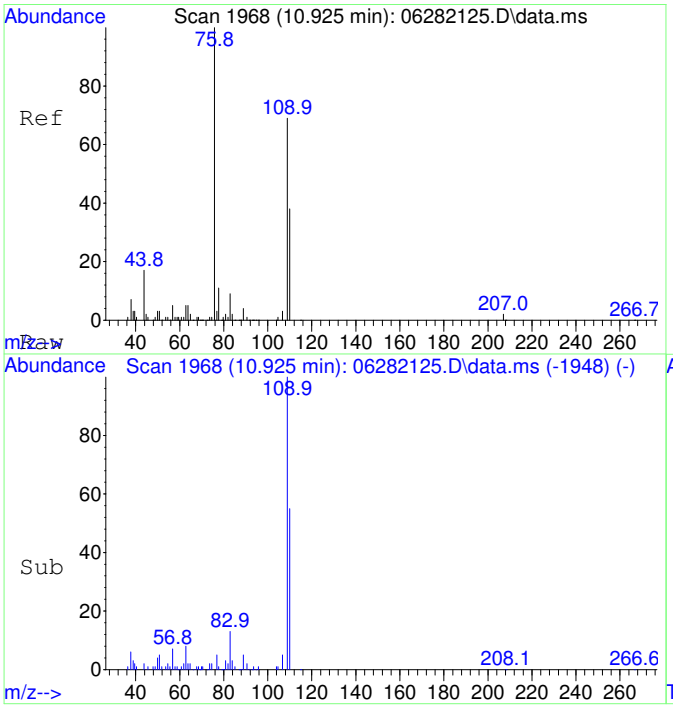


#20
o-Xylene
Concen: 604.31 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 91 Resp: 22287

Ion	Ratio	Lower	Upper
91	100		
106	48.2	18.7	78.7
105	0.0	0.0	30.0
77	12.7	7.3	47.3

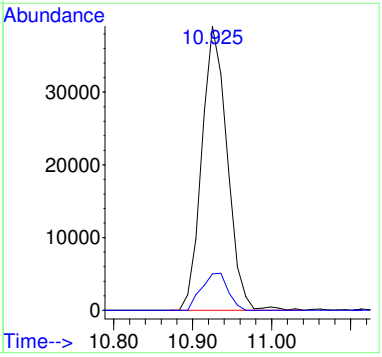


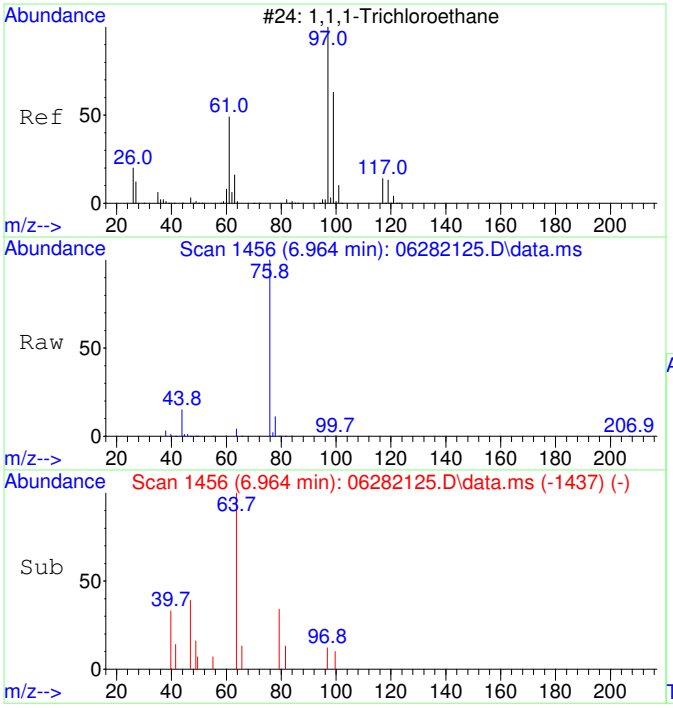


#25
2-Fluorotoluene SCAN
Concen: 4679.86 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion:109 Resp: 87075

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	44.5

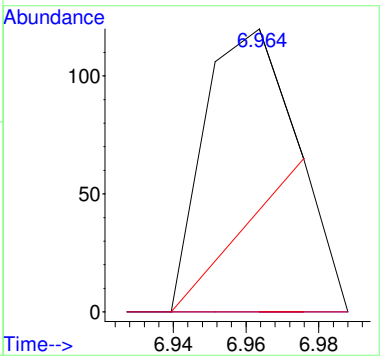


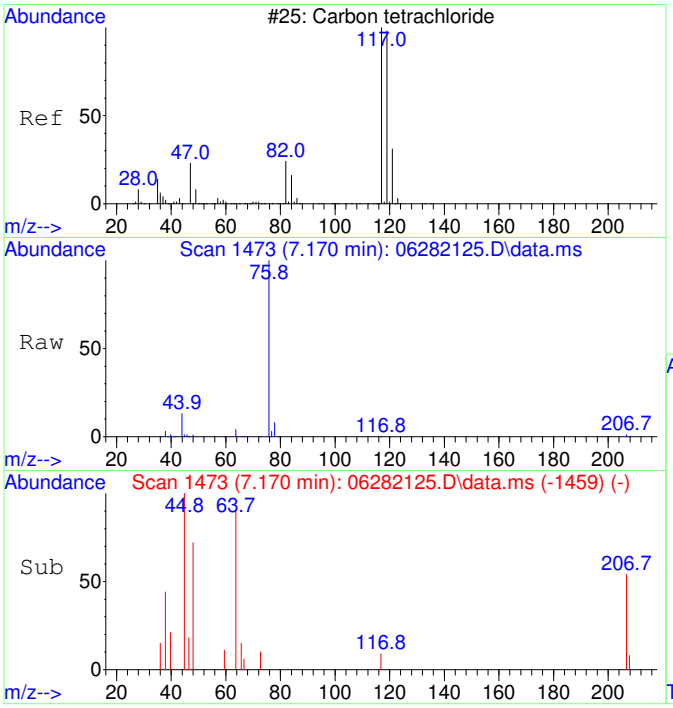


#31
1,1,1-Trichloroethane SCAN
Concen: 24.82 ug/L
RT: 6.964 min Scan# 1456
Delta R.T. 0.134 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 97 Resp: 141

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

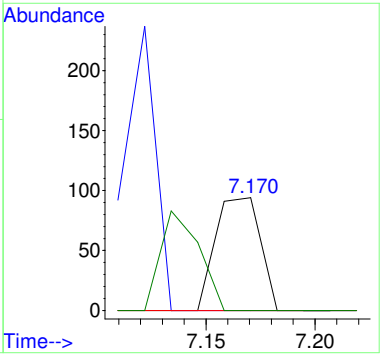


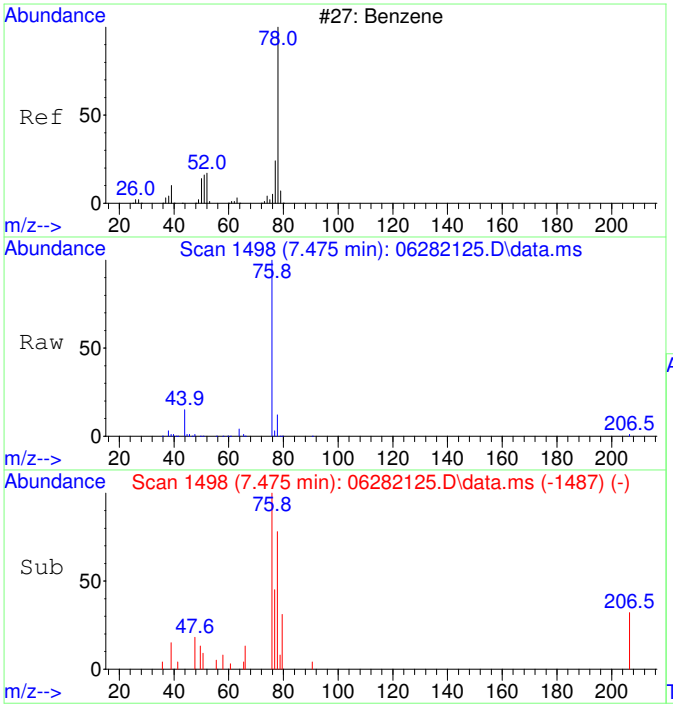


#32
Carbon tetrachloride SCAN
Concen: 28.80 ug/L
RT: 7.170 min Scan# 1473
Delta R.T. 0.073 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion:117 Resp: 135

Ion	Ratio	Lower	Upper
117	100		
119	0.0	68.0	128.0#
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

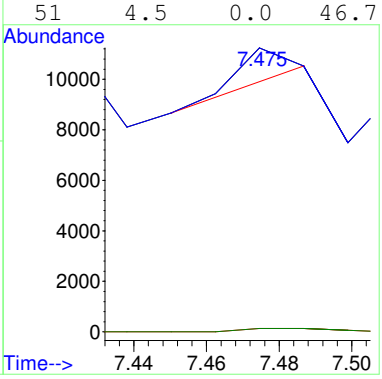


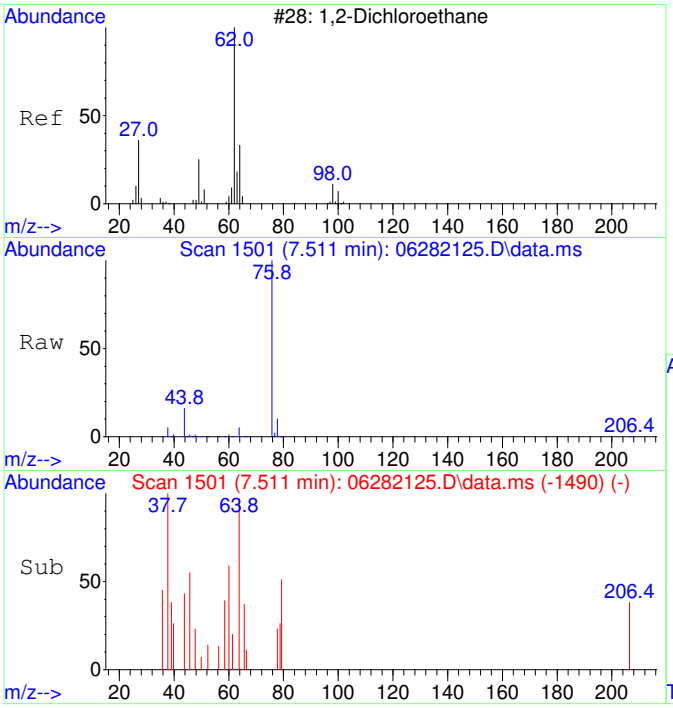


#33
Benzene SCAN
Concen: 152.02 ug/L
RT: 7.475 min Scan# 1498
Delta R.T. 0.036 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 78 Resp: 2168

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	4.5	0.0	46.7
51	4.5	0.0	46.7

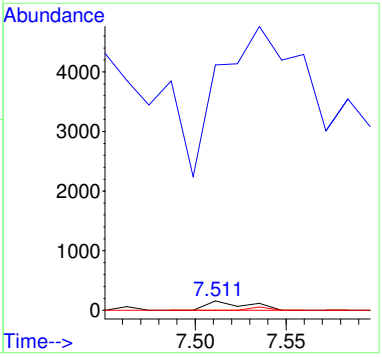


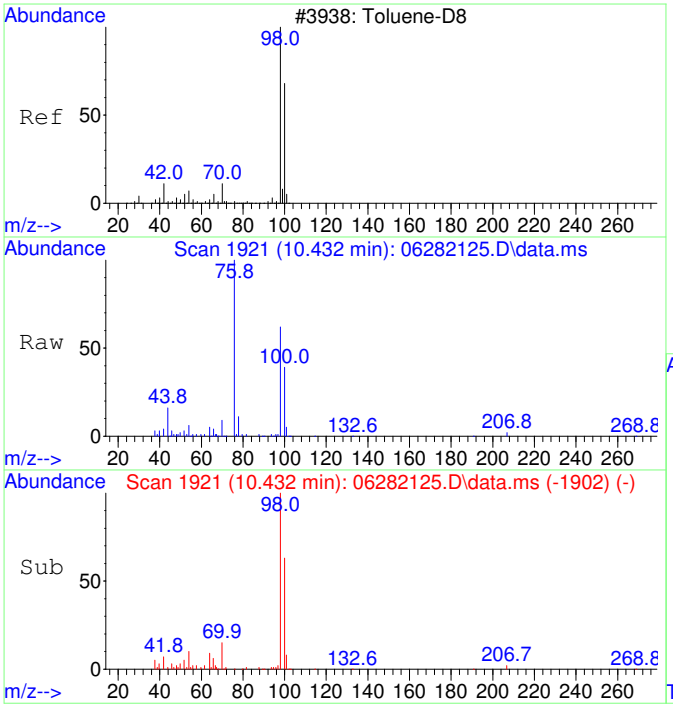


#34
1,2-Dichloroethane SCAN
Concen: 55.38 ug/L
RT: 7.511 min Scan# 1501
Delta R.T. 0.036 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 62 Resp: 249

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

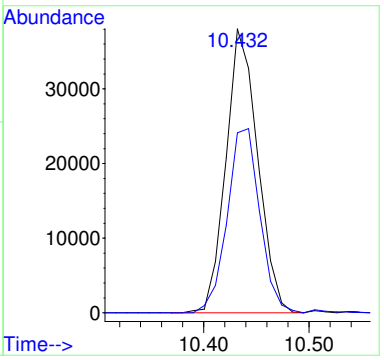


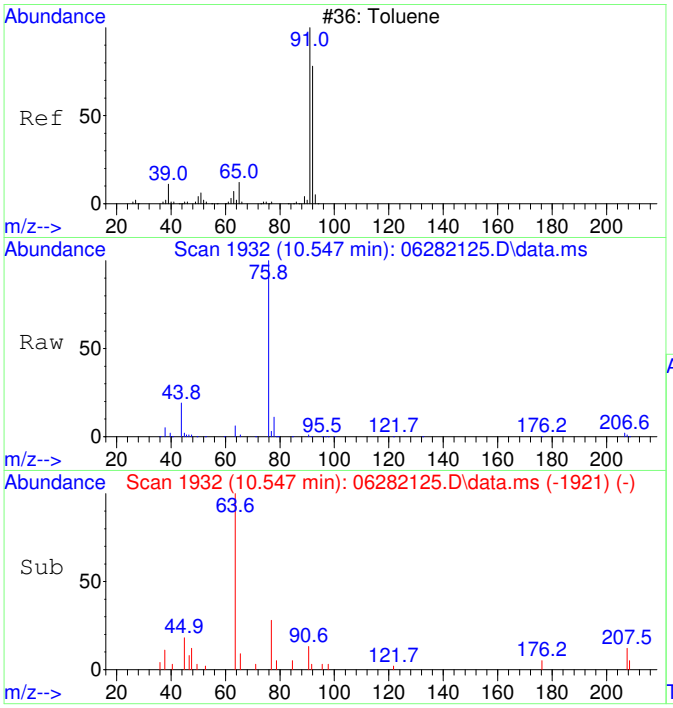


#36
Toluene-d8 SCAN
Concen: 4934.37 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. -0.000 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 98 Resp: 79630

Ion	Ratio	Lower	Upper
98	100		
100	66.8	36.1	96.1

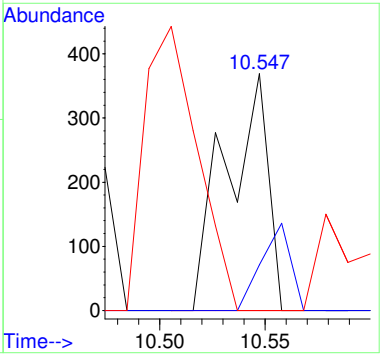


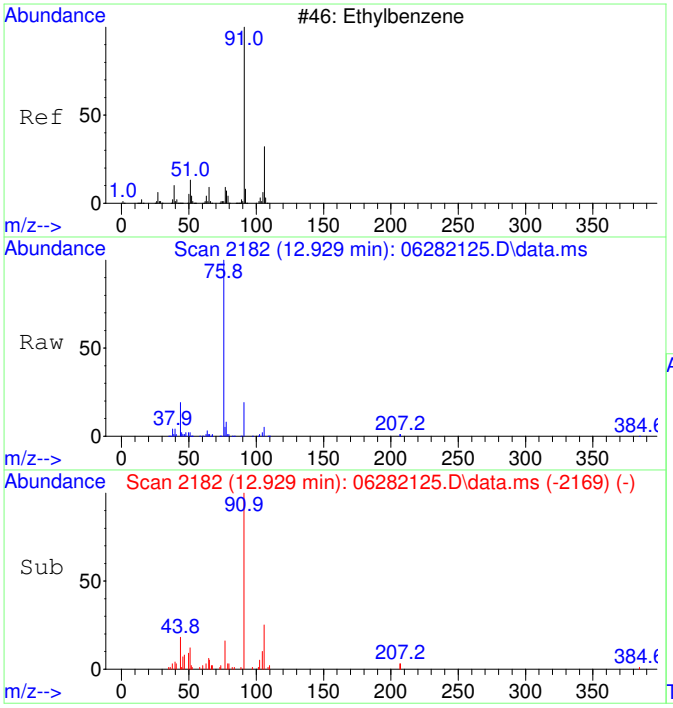


#37
Toluene SCAN
Concen: 24.56 ug/L
RT: 10.547 min Scan# 1932
Delta R.T. 0.010 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 91 Resp: 513

Ion	Ratio	Lower	Upper
91	100		
92	25.3	26.5	86.5#
65	0.0	0.0	40.6

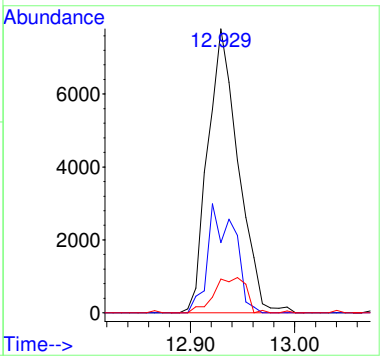


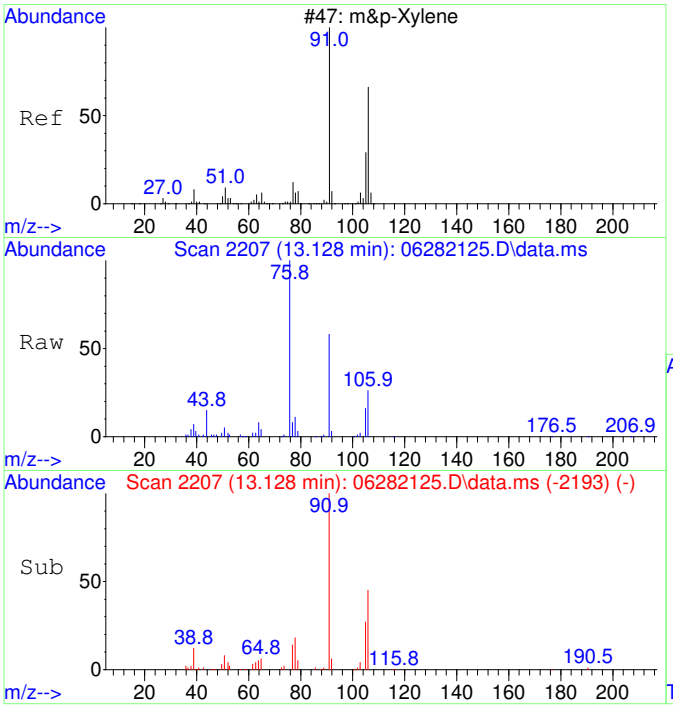


#42
Ethylbenzene SCAN
Concen: 570.28 ug/L
RT: 12.929 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 91 Resp: 15878

Ion	Ratio	Lower	Upper
91	100		
106	33.4	0.5	60.5
51	0.0	0.0	39.6

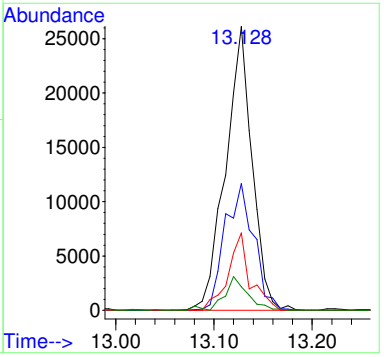


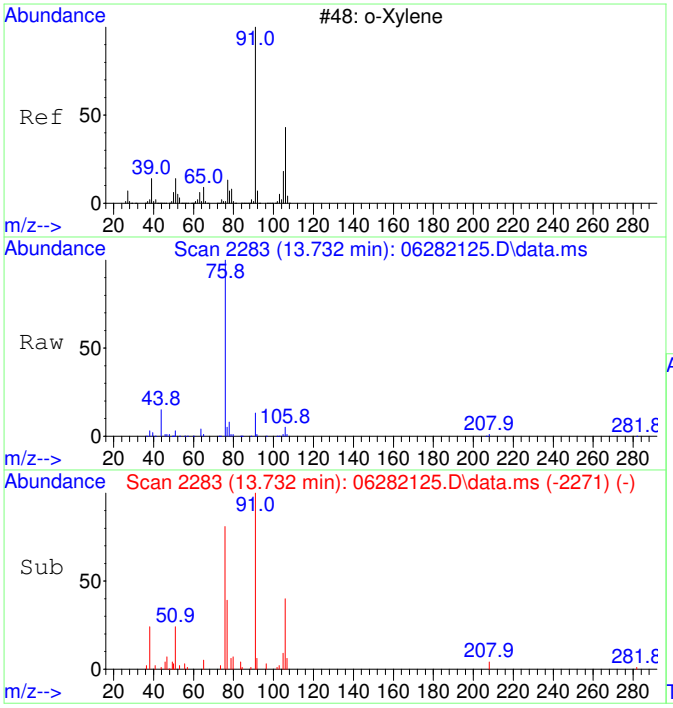


#43
m&p-Xylene SCAN
Concen: 1176.95 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 91 Resp: 48887

Ion	Ratio	Lower	Upper
91	100		
106	48.7	21.2	81.2
105	22.7	0.0	51.6
51	10.5	0.0	41.7

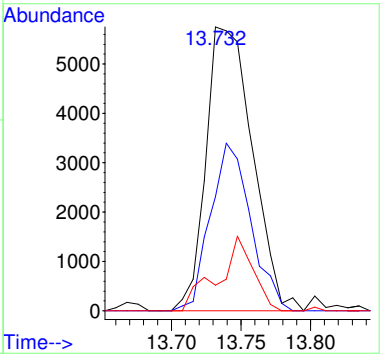




#44
o-Xylene SCAN
Concen: 586.40 ug/L
RT: 13.732 min Scan# 2283
Delta R.T. -0.008 min
Lab File: 06282125.D
Acq: 28 Jun 2021 19:30

Tgt Ion: 91 Resp: 13399

Ion	Ratio	Lower	Upper
91	100		
106	51.2	19.1	79.1
105	19.9	0.0	55.6



2106037-18

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282126.D
Acq On : 28 Jun 2021 19:56
InstName : AG5975C
Operator : TD
Sample : 2106037-18
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 29 06:07:27 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

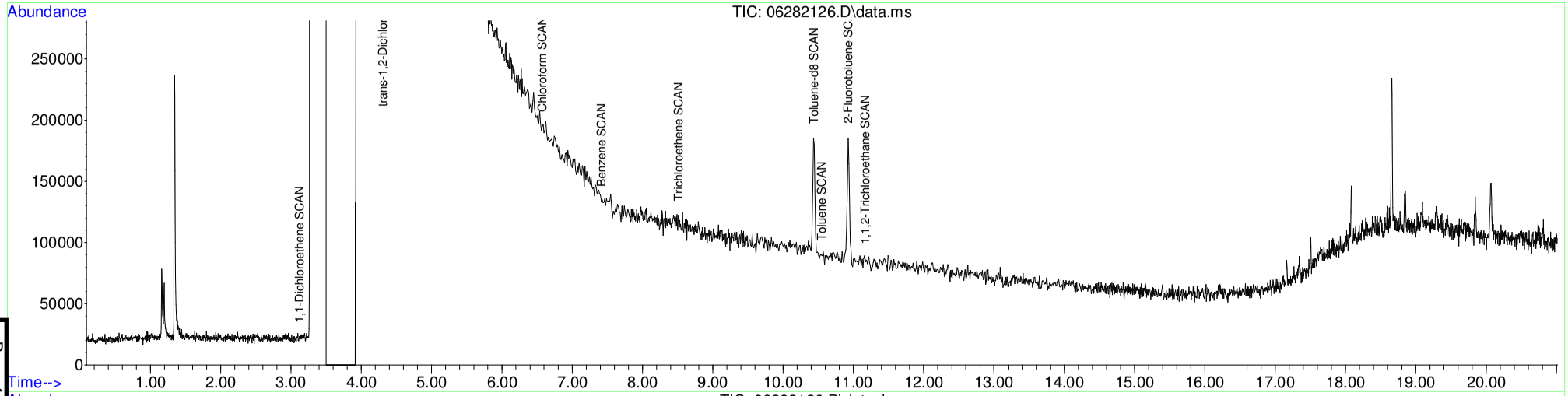
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	152808	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	131995	5042.85 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.86%		
Target Compounds					Qvalue
6] Chloroform	6.564	83	4218	476.13 ug/L #	100
8] Carbon tetrachloride	7.099	117	189	26.32 ug/L #	66
11] Trichloroethene	8.508	130	736	111.05 ug/L	95
13] Toluene	10.528	91	1928	56.59 ug/L	99
25) 2-Fluorotoluene SCAN	10.925	109	86825	4616.31 ug/L	97
26) 1,1-Dichloroethene SCAN	3.122	61	102	25.68 ug/L #	25
27) trans-1,2-Dichloroethe...	4.305	61	143	33.27 ug/L	77
30) Chloroform SCAN	6.575	83	2741	446.04 ug/L #	42
33) Benzene SCAN	7.414	78	7304	506.66 ug/L #	90
35) Trichloroethene SCAN	8.507	130	507	137.98 ug/L #	65
36) Toluene-d8 SCAN	10.432	98	77666	4760.98 ug/L	100
37) Toluene SCAN	10.547	91	1269	60.10 ug/L	66
38) 1,1,2-Trichloroethane ...	11.167	97	139	27.64 ug/L #	25

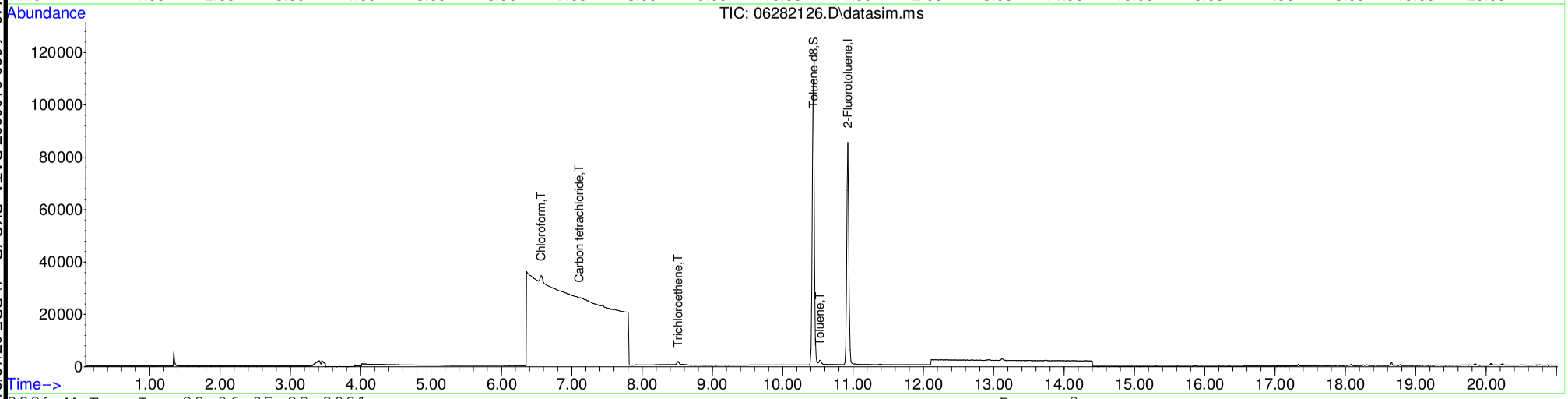
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282126.D
Acq On : 28 Jun 2021 19:56
InstName : AG5975C
Operator : TD
Sample : 2106037-18
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 29 06:07:27 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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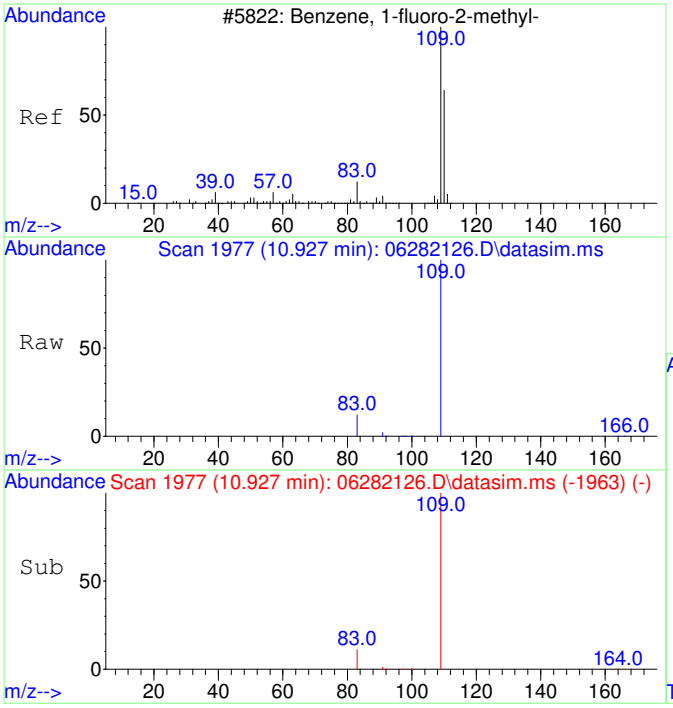
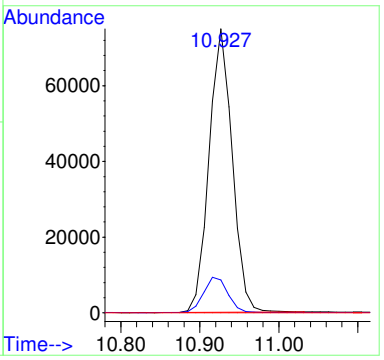
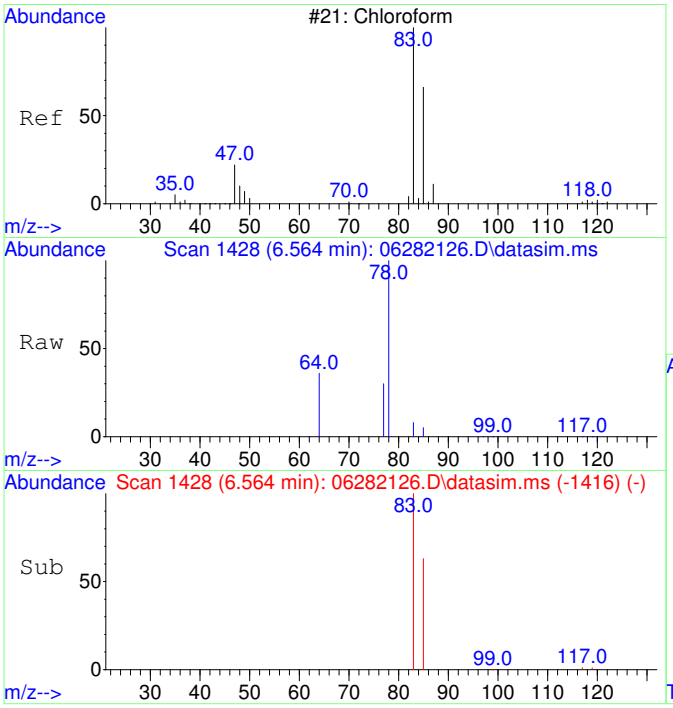


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion:109 Resp: 152808

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

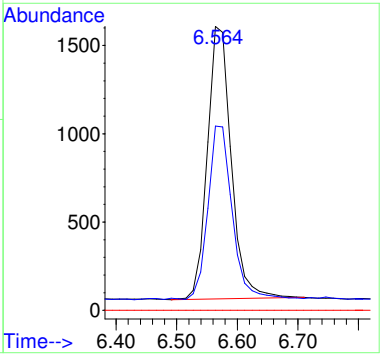


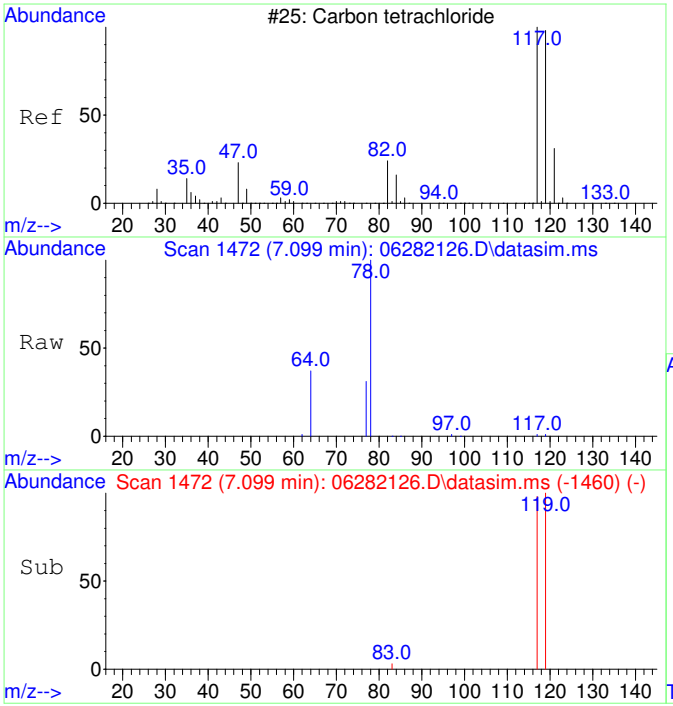


#6
Chloroform
Concen: 476.13 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.000 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion: 83 Resp: 4218

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.5	94.5
87	0.0	0.0	20.0

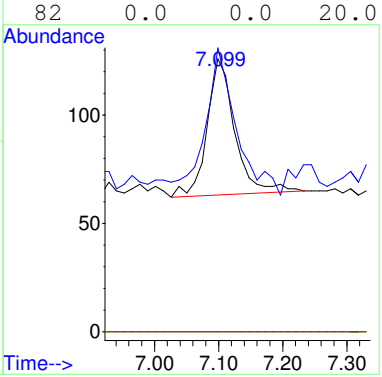


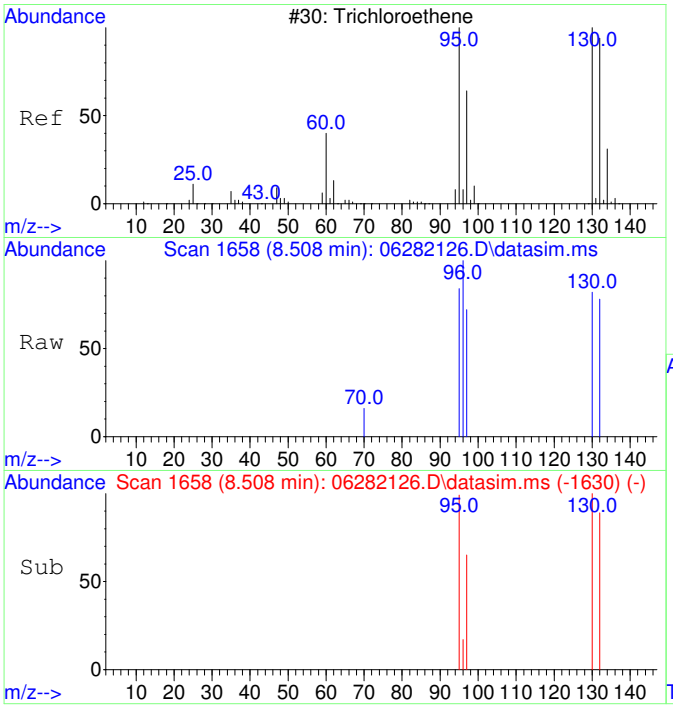


#8
Carbon tetrachloride
Concen: 26.32 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. -0.000 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion:117 Resp: 189

Ion	Ratio	Lower	Upper
117	100		
119	129.1	66.3	126.3#
121	0.0	0.0	20.0
82	0.0	0.0	20.0

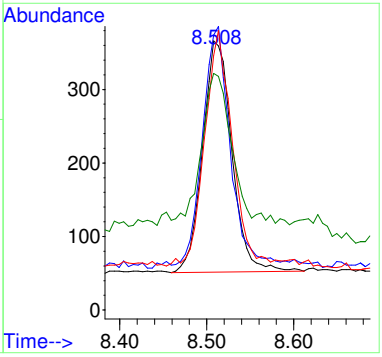


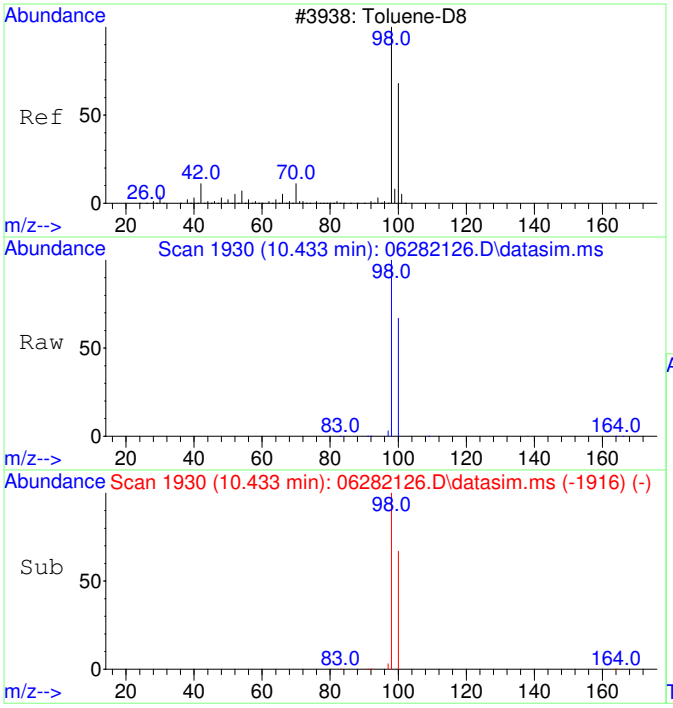


#11
Trichloroethene
Concen: 111.05 ug/L
RT: 8.508 min Scan# 1658
Delta R.T. -0.000 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion:130 Resp: 736

Ion	Ratio	Lower	Upper
130	100		
95	99.9	65.8	125.8
132	96.2	75.8	115.8
97	73.8	42.0	82.0

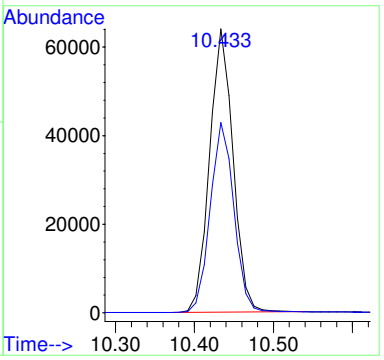


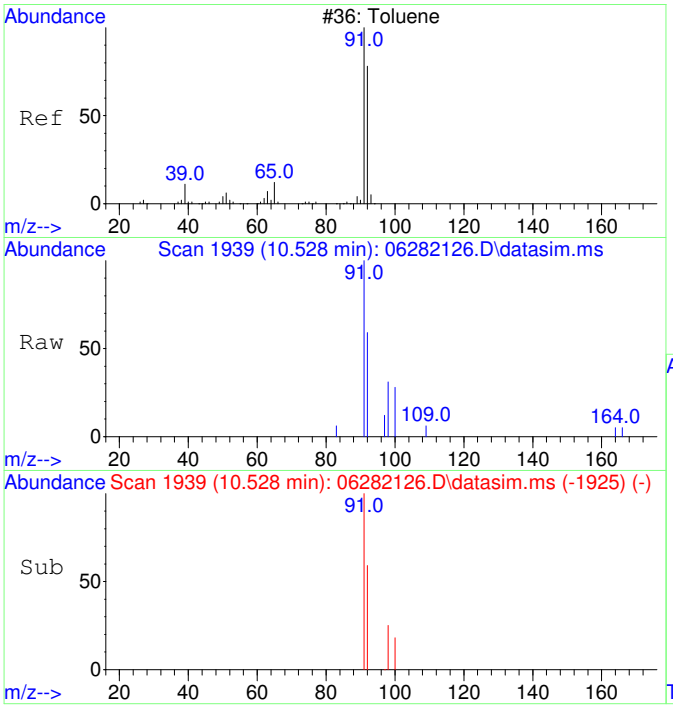


#12
Toluene-d8
Concen: 5042.85 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion: 98 Resp: 131995

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

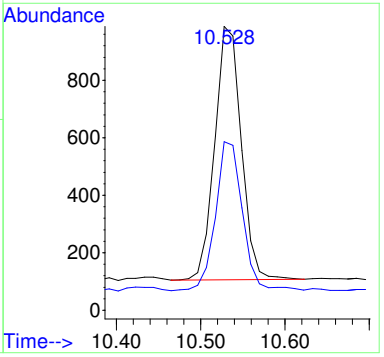


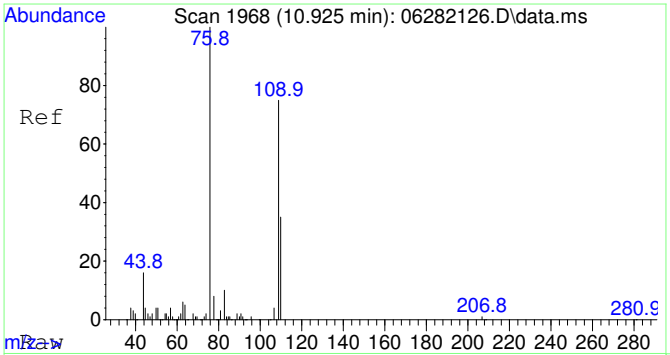


#13
Toluene
Concen: 56.59 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.000 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion: 91 Resp: 1928

Ion	Ratio	Lower	Upper
91	100		
92	59.3	30.2	90.2

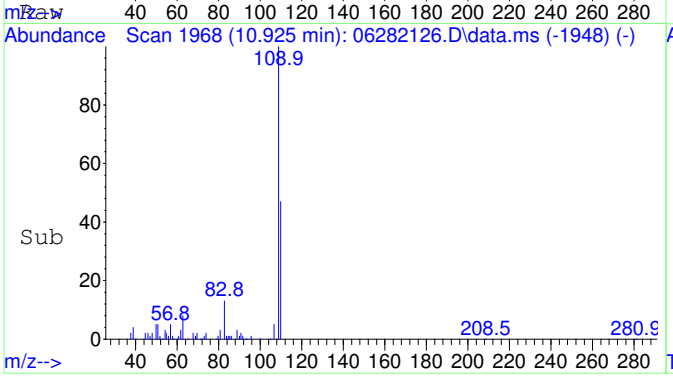


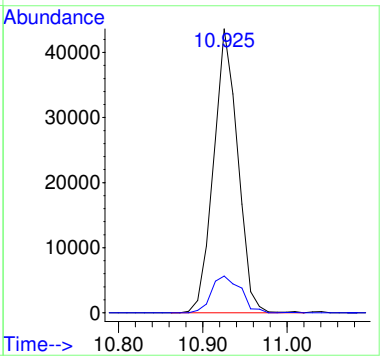


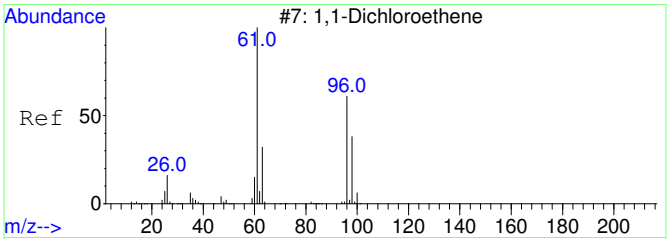
#25
2-Fluorotoluene SCAN
Concen: 4616.31 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion:109 Resp: 86825

Ion	Ratio	Lower	Upper
109	100		
83	15.7	0.0	44.5



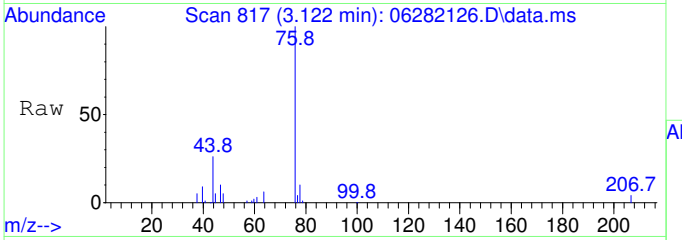


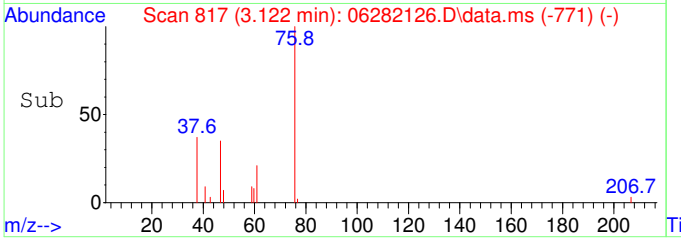


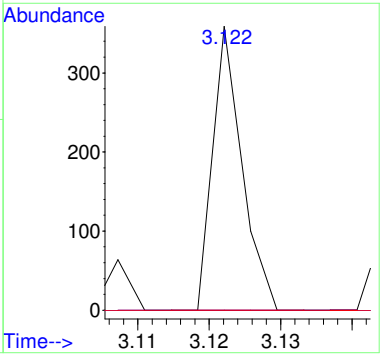
#26
1,1-Dichloroethene SCAN
Concen: 25.68 ug/L
RT: 3.122 min Scan# 817
Delta R.T. 0.070 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

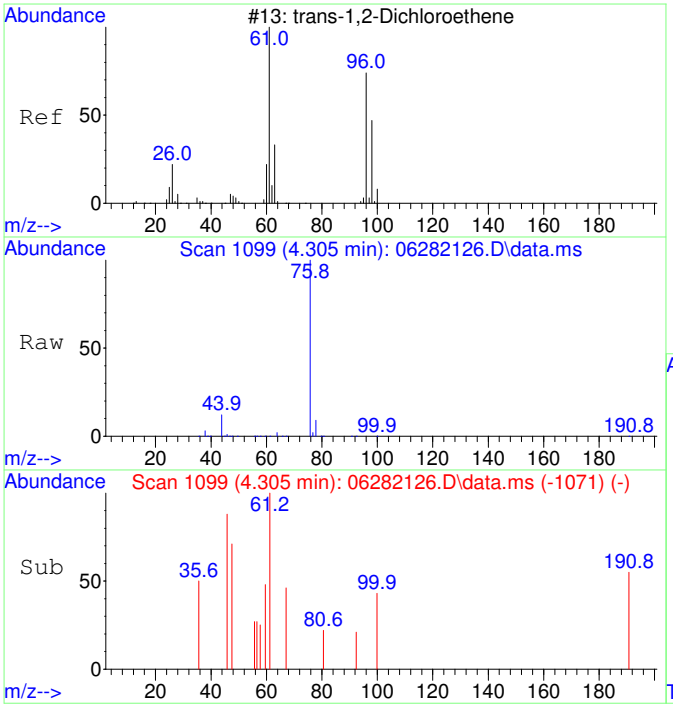
Tgt Ion: 61 Resp: 102

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.0	93.0#
98	0.0	12.5	72.5#





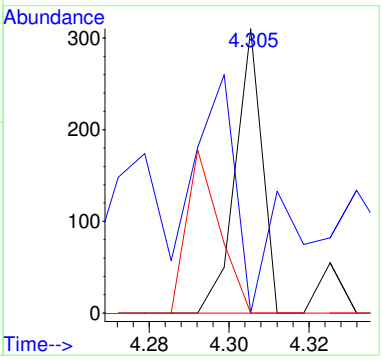


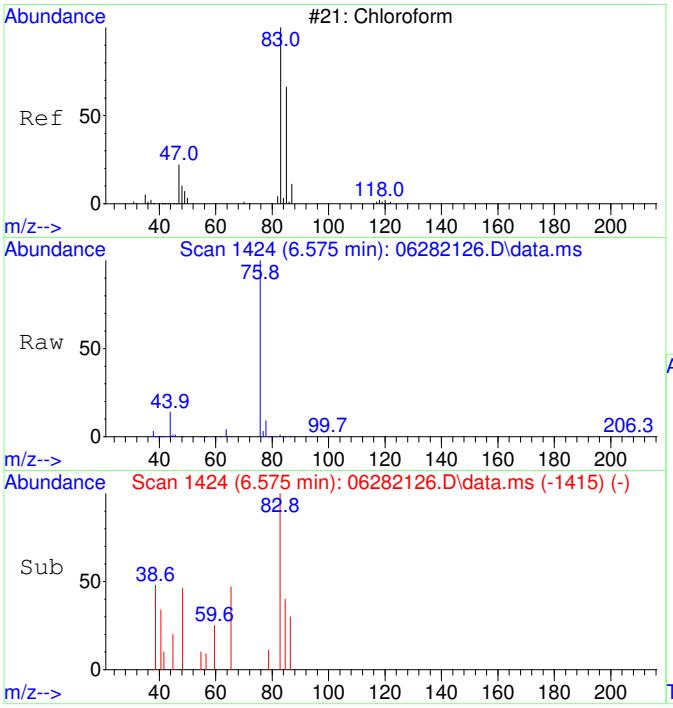


#27
trans-1,2-Dichloroethene SCAN
Concen: 33.27 ug/L
RT: 4.305 min Scan# 1099
Delta R.T. 0.086 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion: 61 Resp: 143

Ion	Ratio	Lower	Upper
61	100		
96	99.3	49.3	109.3
98	70.6	24.0	84.0

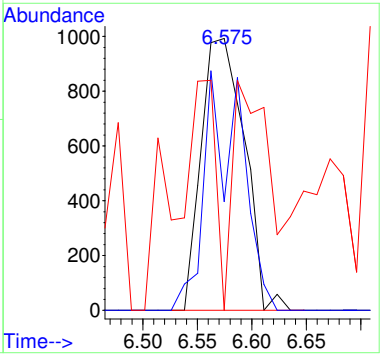


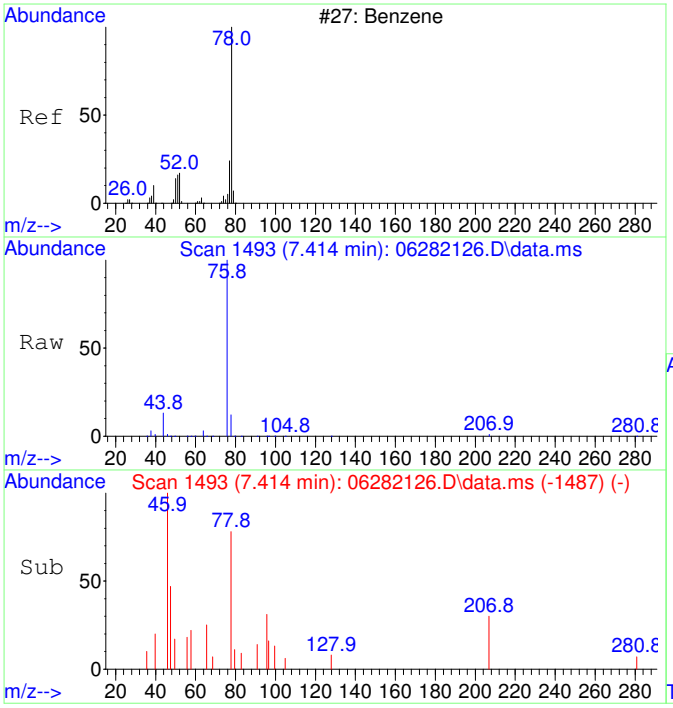


#30
Chloroform SCAN
Concen: 446.04 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion: 83 Resp: 2741

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	54.9	7.5	67.5

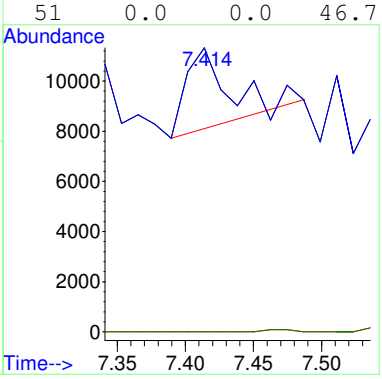


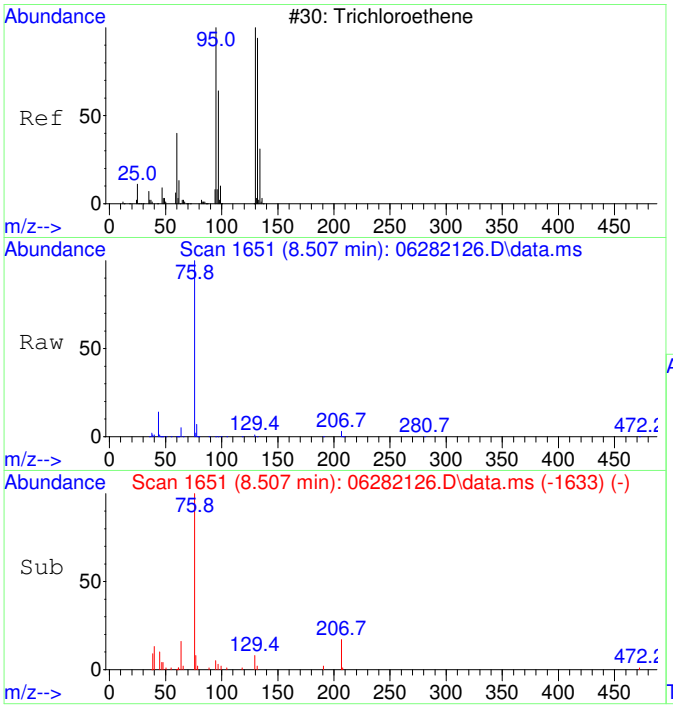


#33
Benzene SCAN
Concen: 506.66 ug/L
RT: 7.414 min Scan# 1493
Delta R.T. -0.024 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion: 78 Resp: 7304

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

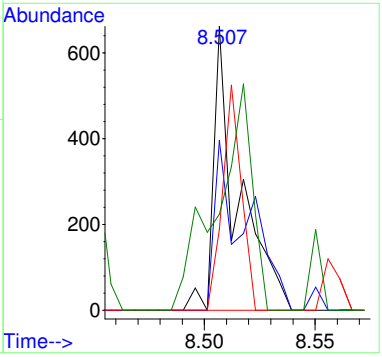


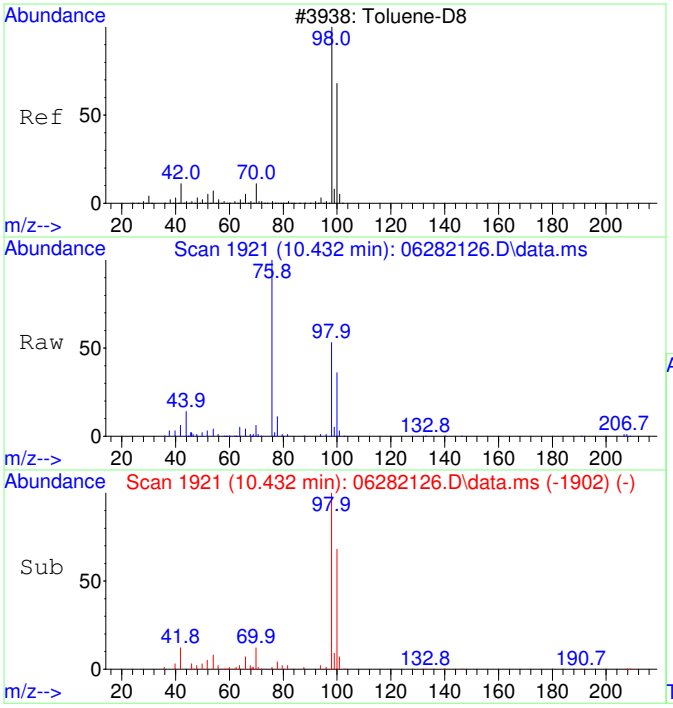


#35
Trichloroethene SCAN
Concen: 137.98 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. -0.000 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion:130 Resp: 507

Ion	Ratio	Lower	Upper
130	100		
95	77.5	60.0	120.0
132	61.5	54.3	114.3
97	116.8	24.6	84.6#

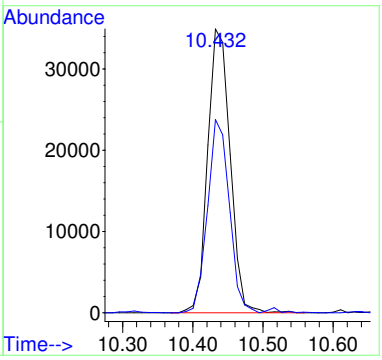


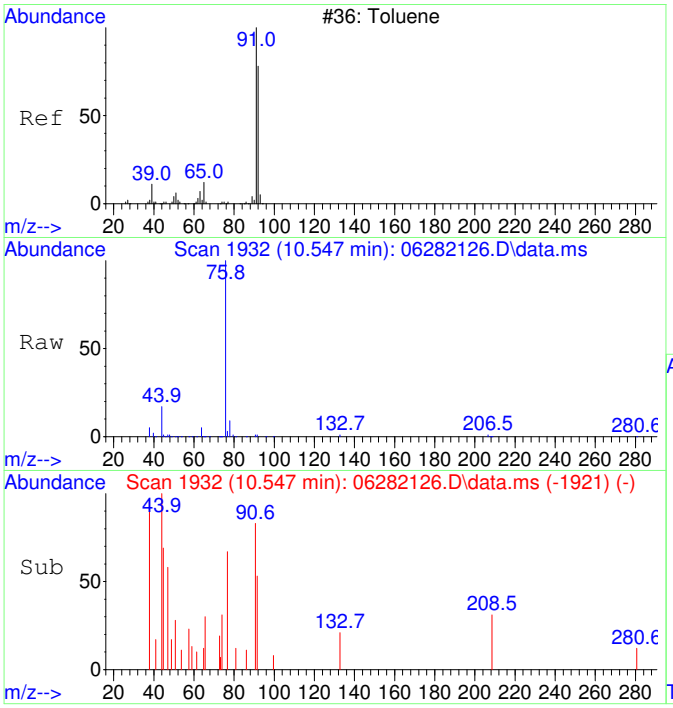


#36
Toluene-d8 SCAN
Concen: 4760.98 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. -0.000 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion: 98 Resp: 77666

Ion	Ratio	Lower	Upper
98	100		
100	66.0	36.1	96.1

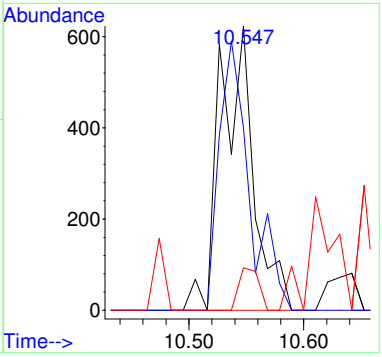


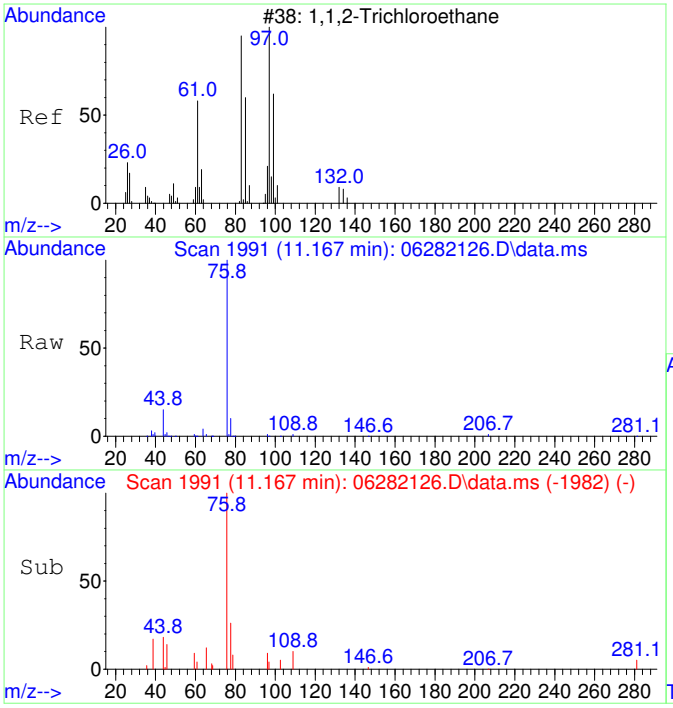


#37
Toluene SCAN
Concen: 60.10 ug/L
RT: 10.547 min Scan# 1932
Delta R.T. 0.010 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion: 91 Resp: 1269

Ion	Ratio	Lower	Upper
91	100		
92	85.8	26.5	86.5
65	8.8	0.0	40.6

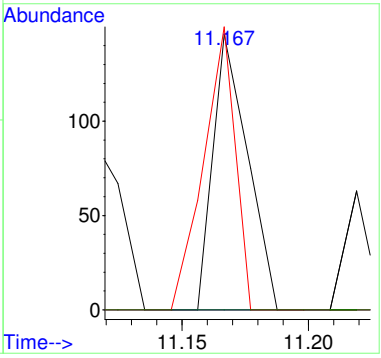




#38
1,1,2-Trichloroethane SCAN
Concen: 27.64 ug/L
RT: 11.167 min Scan# 1991
Delta R.T. -0.011 min
Lab File: 06282126.D
Acq: 28 Jun 2021 19:56

Tgt Ion: 97 Resp: 139

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	94.2	30.8	90.8#
99	0.0	37.5	97.5#



2106037-19

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282127.D
Acq On : 28 Jun 2021 20:23
InstName : AG5975C
Operator : TD
Sample : 2106037-19
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 29 06:07:31 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

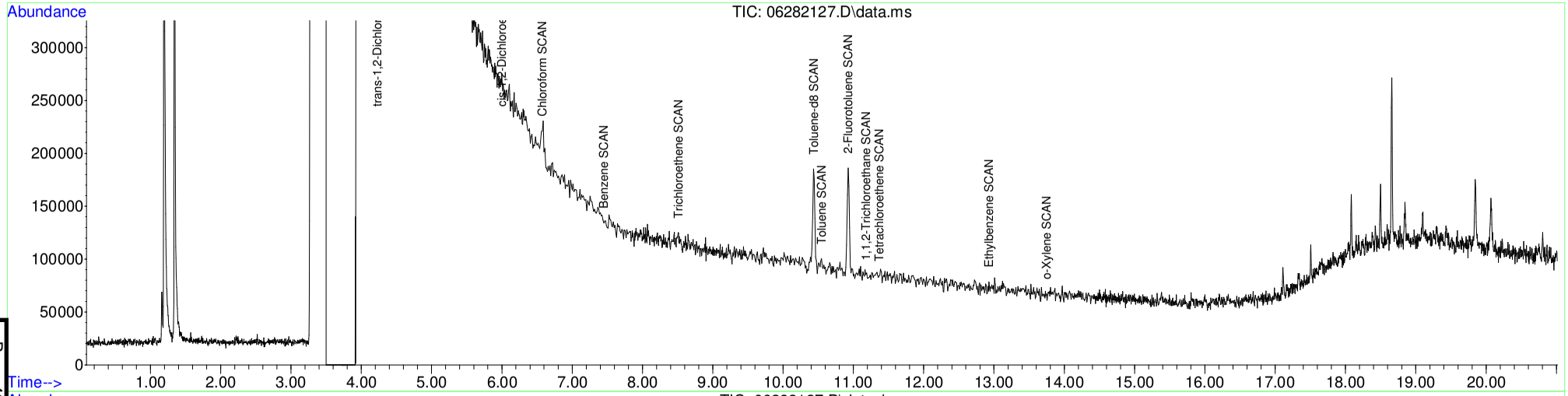
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	151693	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	130772	5032.84 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.66%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.049	61	202	30.57 ug/L #	95
4] 1,1-Dichloroethane	4.964	63	234	30.01 ug/L #	81
5] cis-1,2-Dichloroethene	5.992	61	627	83.91 ug/L #	93
6] Chloroform	6.564	83	48244	5485.80 ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	550	67.21 ug/L #	95
11] Trichloroethene	8.513	130	6136	932.64 ug/L	98
13] Toluene	10.528	91	13958	412.69 ug/L	99
15] Tetrachloroethene	11.388	166	2365	273.35 ug/L #	99
19] m&p-Xylene	13.121	91	1479	43.22 ug/L #	93
25) 2-Fluorotoluene SCAN	10.925	109	89469	4791.85 ug/L	98
27) trans-1,2-Dichloroethe...	4.219	61	134	31.41 ug/L #	1
29) cis-1,2-Dichloroethene...	5.997	61	418	72.46 ug/L #	1
30) Chloroform SCAN	6.575	83	32511	5329.34 ug/L #	53
33) Benzene SCAN	7.450	78	770	53.81 ug/L	100
35) Trichloroethene SCAN	8.507	130	3604	988.02 ug/L #	76
36) Toluene-d8 SCAN	10.432	98	79054	4881.69 ug/L	99
37) Toluene SCAN	10.547	91	8843	421.91 ug/L	89
38) 1,1,2-Trichloroethane ...	11.177	97	235	47.07 ug/L #	14
39) Tetrachloroethene SCAN	11.366	166	599	118.68 ug/L #	9
42) Ethylbenzene SCAN	12.929	91	751	26.88 ug/L #	51
44) o-Xylene SCAN	13.748	91	753	32.84 ug/L #	44

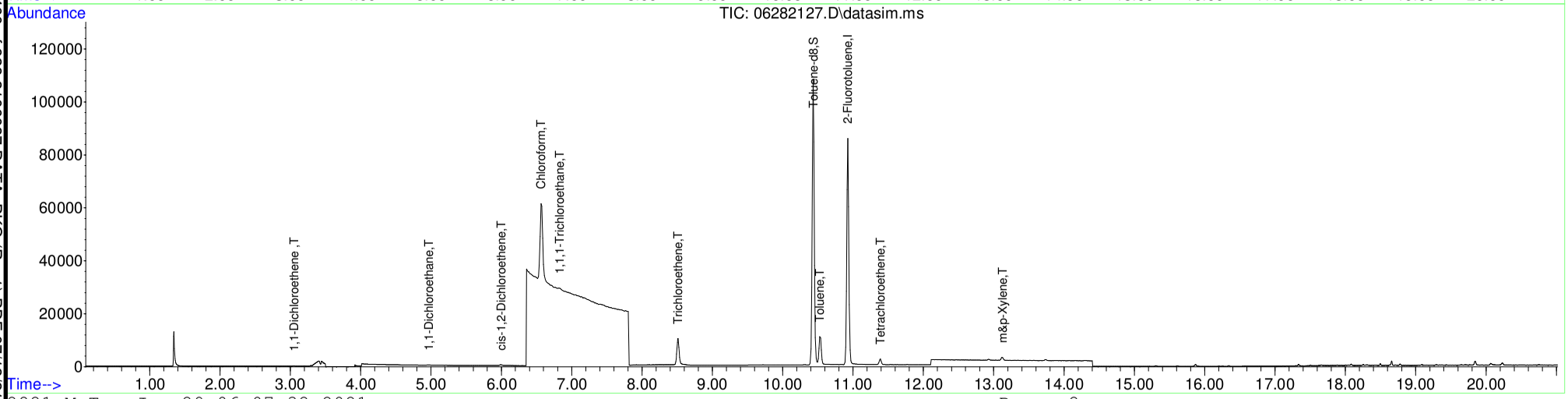
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282127.D
Acq On : 28 Jun 2021 20:23
InstName : AG5975C
Operator : TD
Sample : 2106037-19
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 29 06:07:31 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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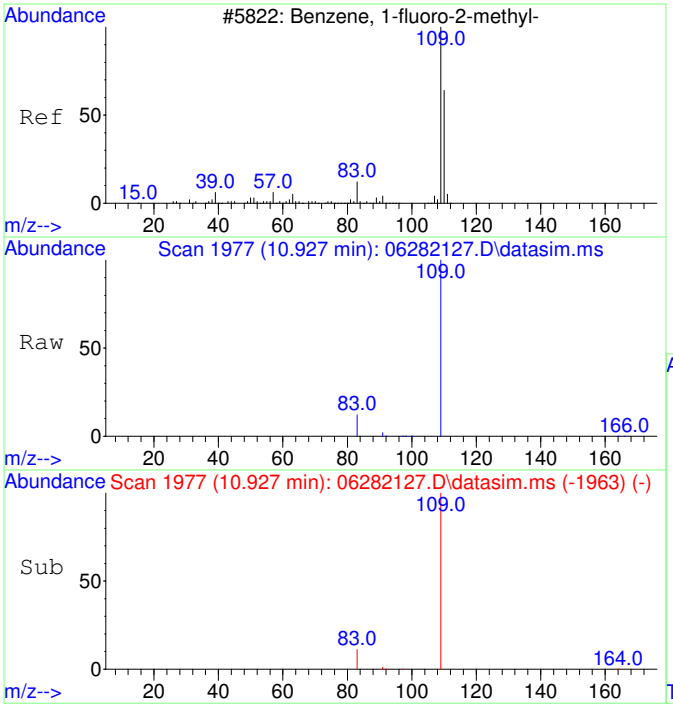
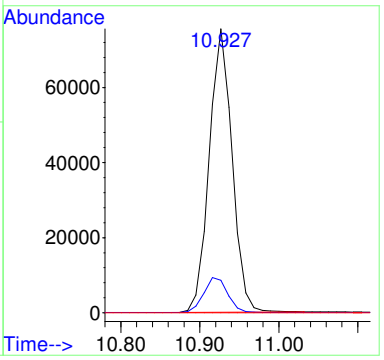
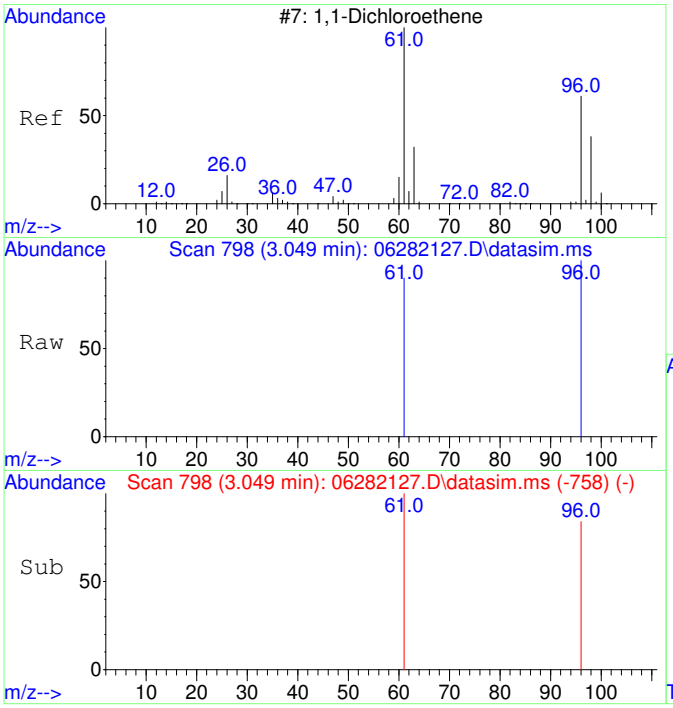


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion:109 Resp: 151693

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

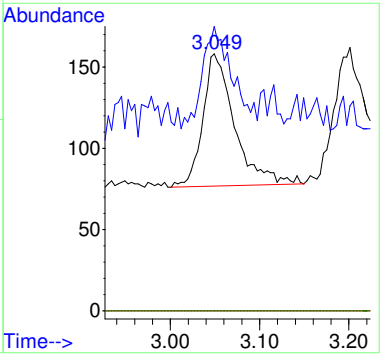


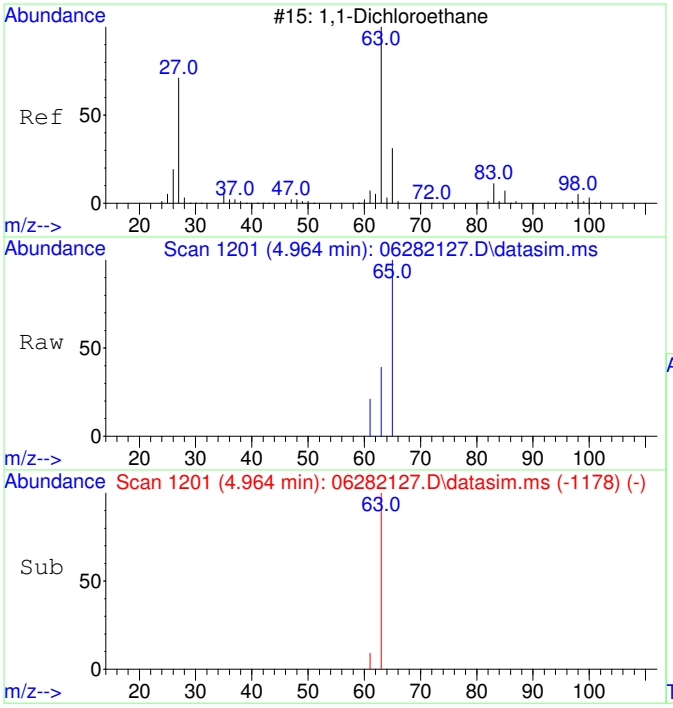


#2
1,1-Dichloroethene
Concen: 30.57 ug/L
RT: 3.049 min Scan# 798
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 61 Resp: 202

Ion	Ratio	Lower	Upper
61	100		
96	60.9	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

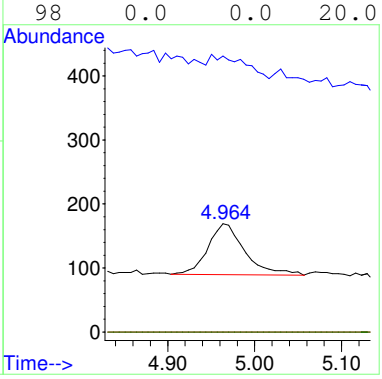


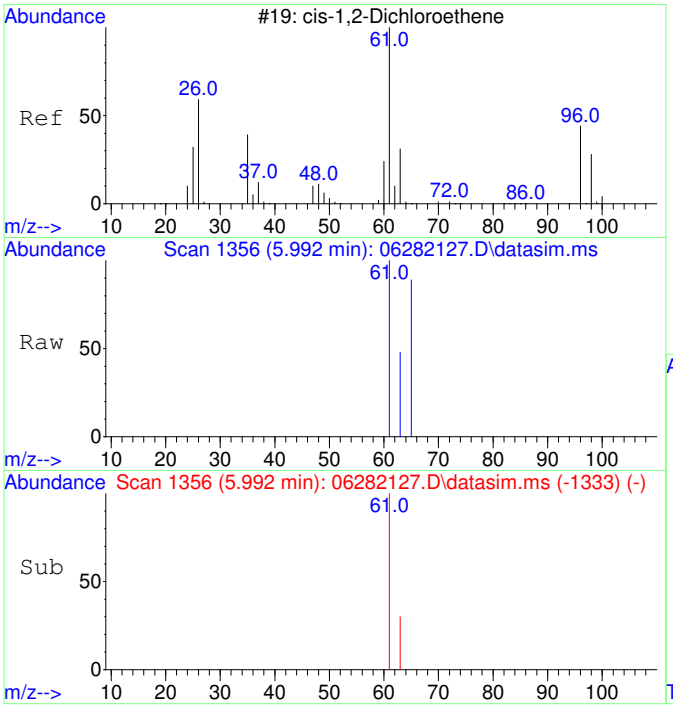


#4
1,1-Dichloroethane
Concen: 30.01 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 63 Resp: 234

Ion	Ratio	Lower	Upper
63	100		
65	41.9	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

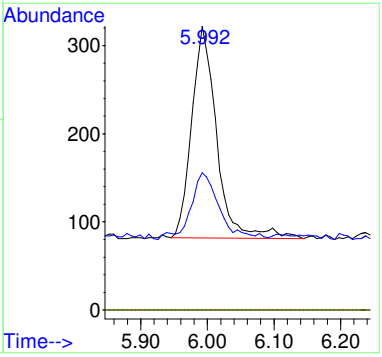


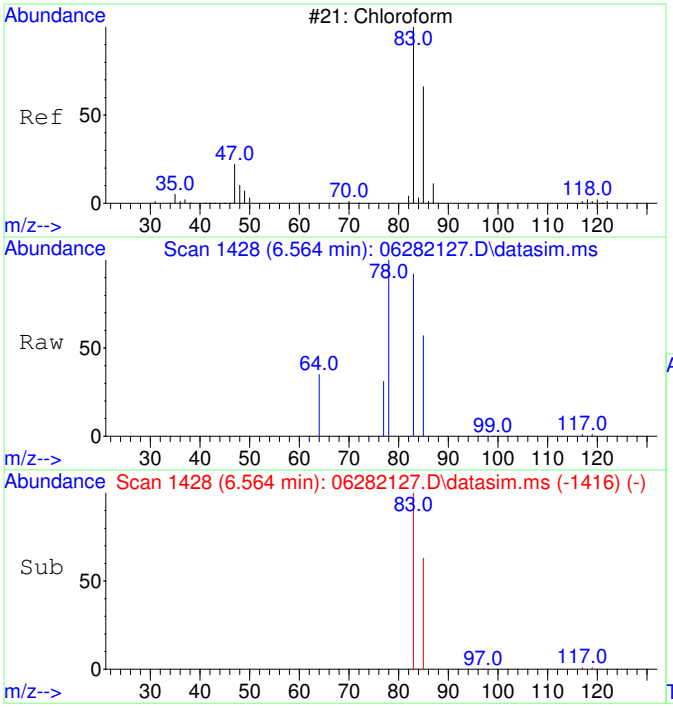


#5
cis-1,2-Dichloroethene
Concen: 83.91 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 61 Resp: 627

Ion	Ratio	Lower	Upper
61	100		
63	36.4	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

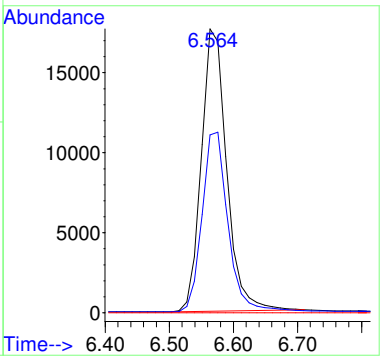


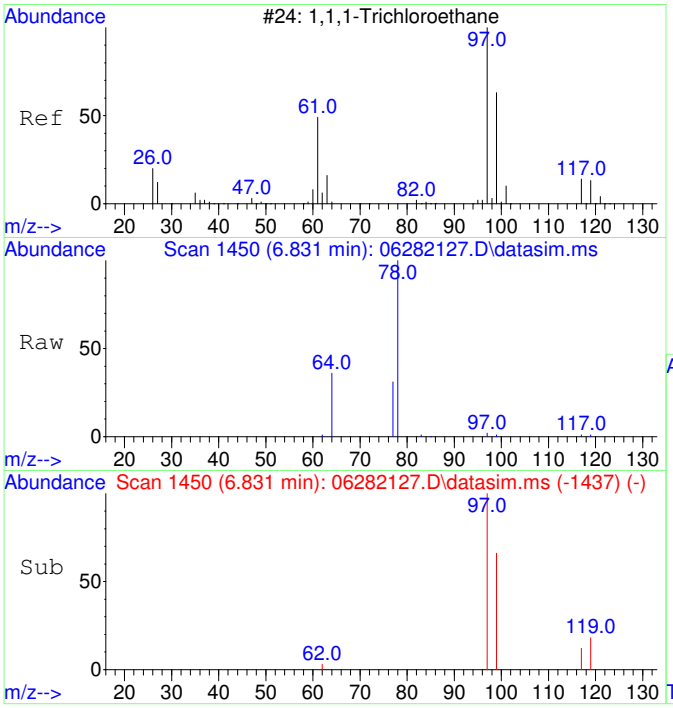


#6
Chloroform
Concen: 5485.80 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 83 Resp: 48244

Ion	Ratio	Lower	Upper
83	100		
85	64.2	34.5	94.5
87	0.0	0.0	20.0

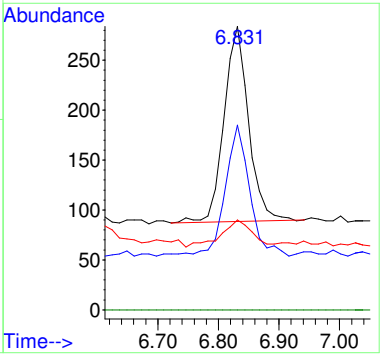


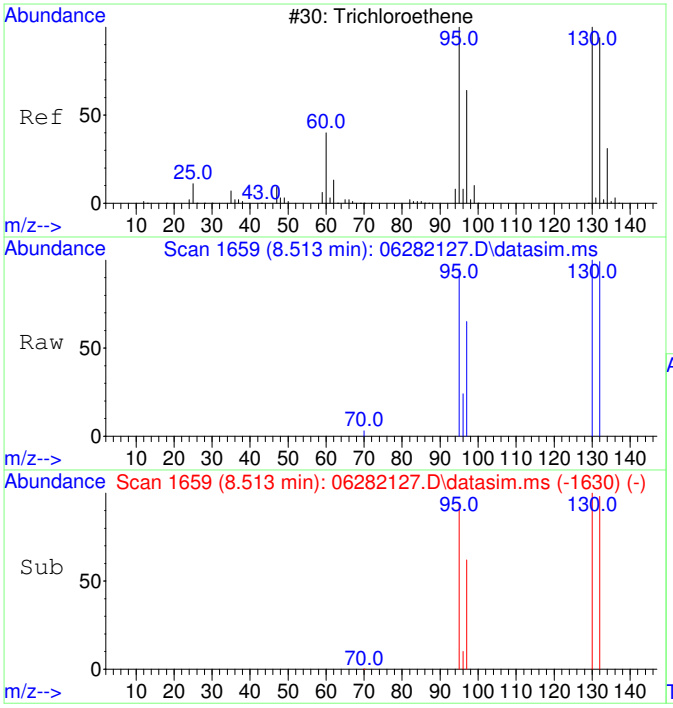


#7
1,1,1-Trichloroethane
Concen: 67.21 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 97 Resp: 550

Ion	Ratio	Lower	Upper
97	100		
99	67.5	34.4	94.4
117	17.5	0.0	42.8
61	0.0	0.0	20.0

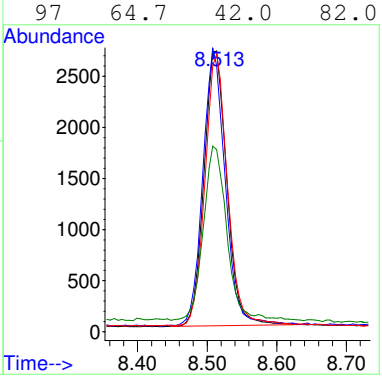


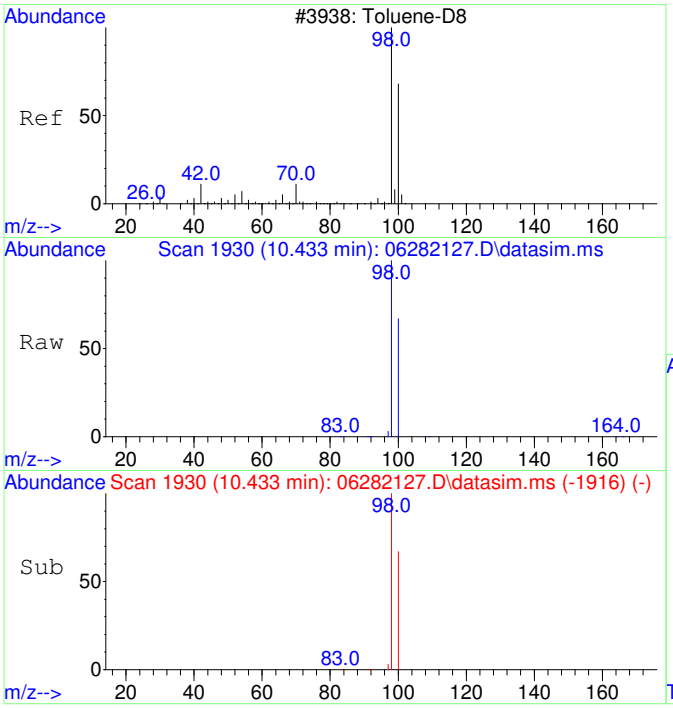


#11
Trichloroethene
Concen: 932.64 ug/L
RT: 8.513 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion:130 Resp: 6136

Ion	Ratio	Lower	Upper
130	100		
95	98.6	65.8	125.8
132	97.1	75.8	115.8
97	64.7	42.0	82.0

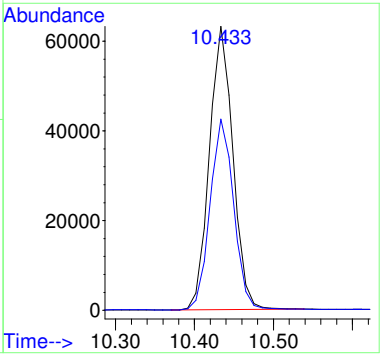


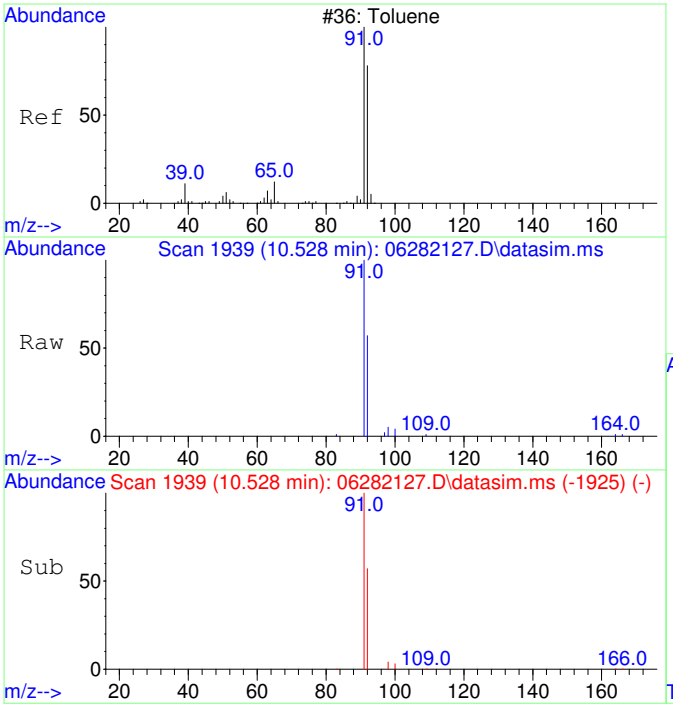


#12
Toluene-d8
Concen: 5032.84 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 98 Resp: 130772

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

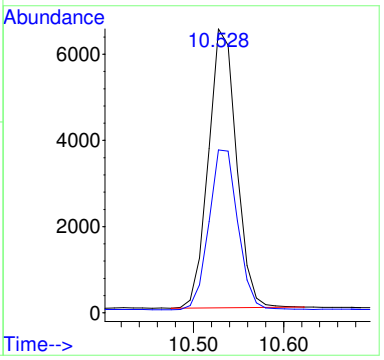


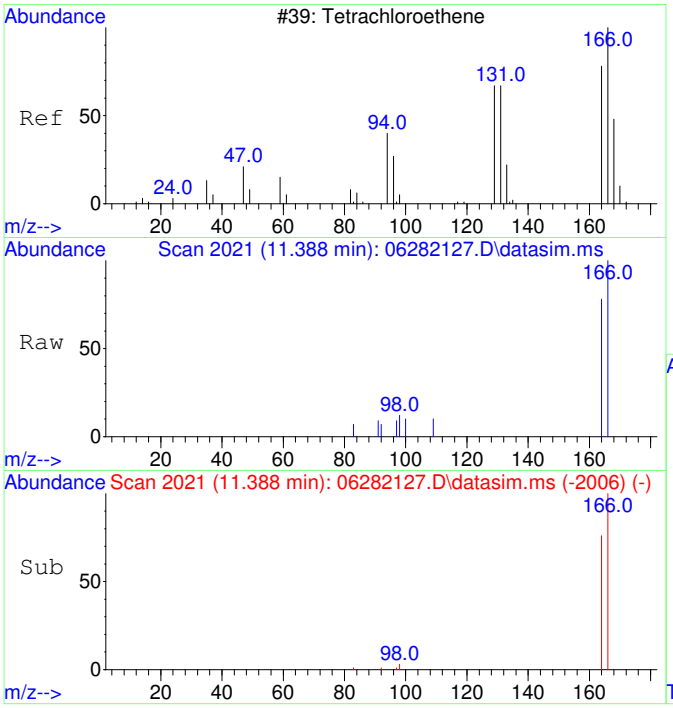


#13
Toluene
Concen: 412.69 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 91 Resp: 13958

Ion	Ratio	Lower	Upper
91	100		
92	59.1	30.2	90.2

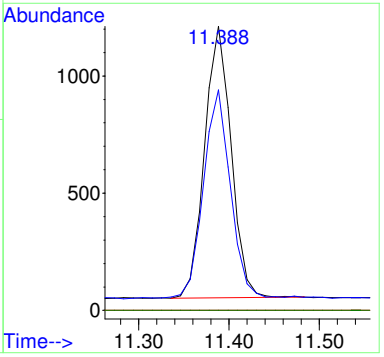


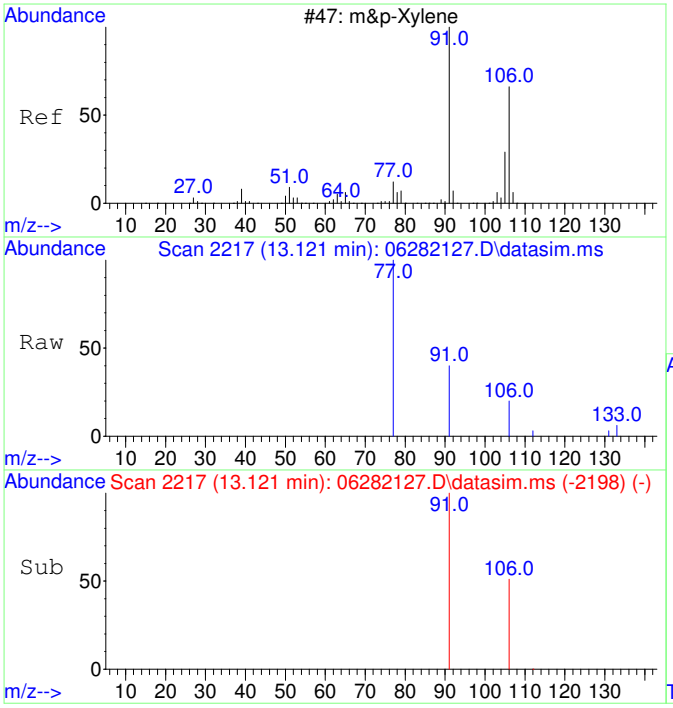


#15
Tetrachloroethene
Concen: 273.35 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.010 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion:166 Resp: 2365

Ion	Ratio	Lower	Upper
166	100		
164	77.4	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

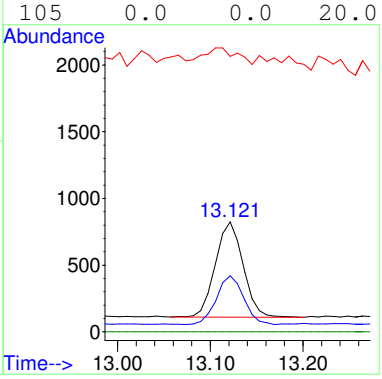


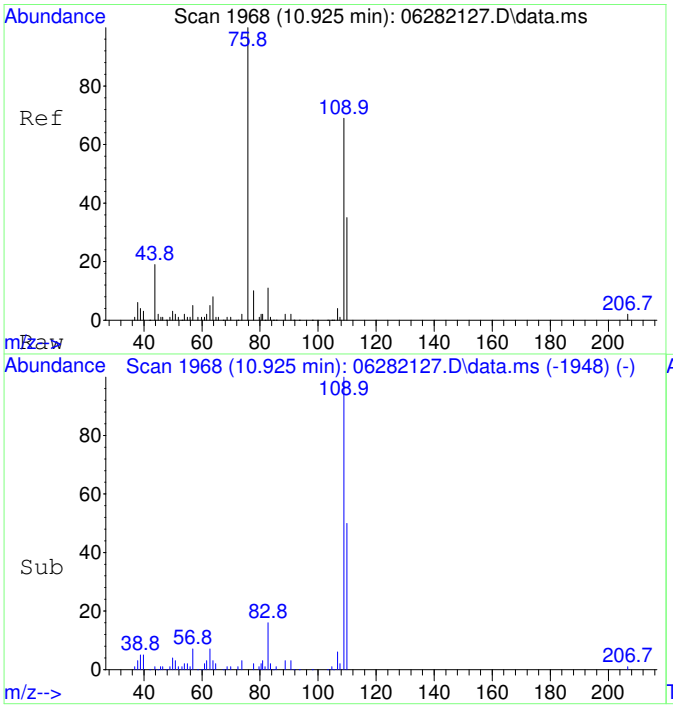


#19
m&p-Xylene
Concen: 43.22 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 91 Resp: 1479

Ion	Ratio	Lower	Upper
91	100		
106	49.7	21.4	81.4
77	22.2	0.0	42.7
105	0.0	0.0	20.0

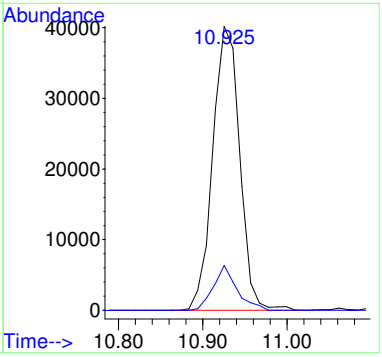


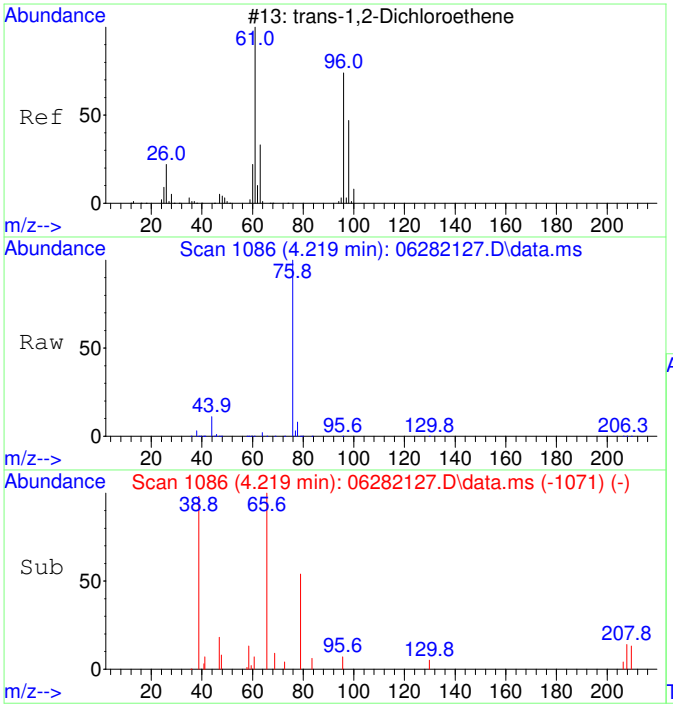


#25
2-Fluorotoluene SCAN
Concen: 4791.85 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion:109 Resp: 89469

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	44.5

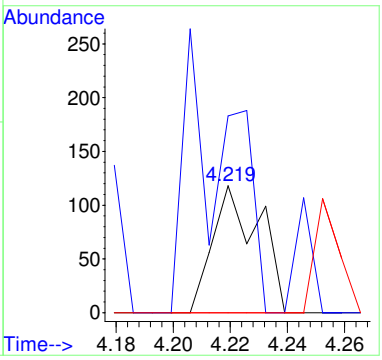


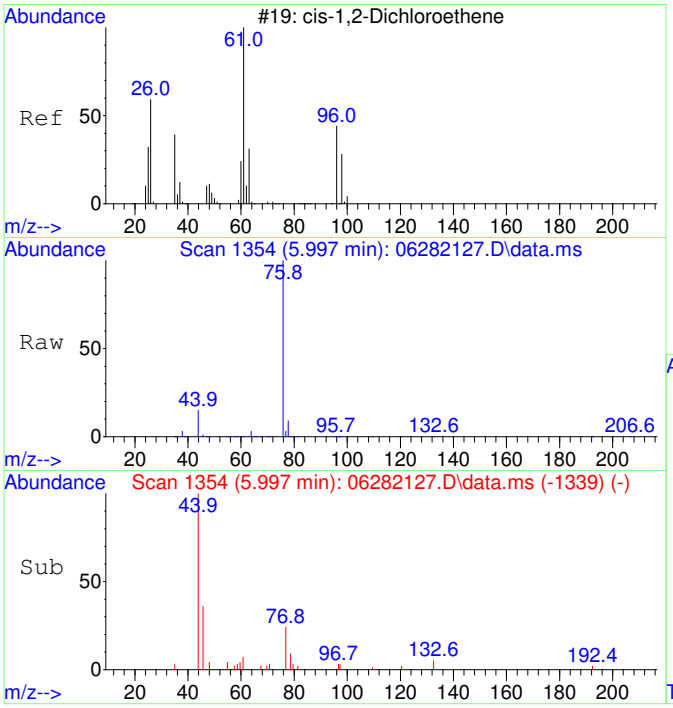


#27
trans-1,2-Dichloroethene SCAN
Concen: 31.41 ug/L
RT: 4.219 min Scan# 1086
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 61 Resp: 134

Ion	Ratio	Lower	Upper
61	100		
96	207.5	49.3	109.3#
98	0.0	24.0	84.0#

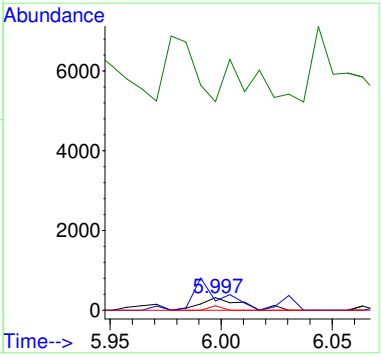


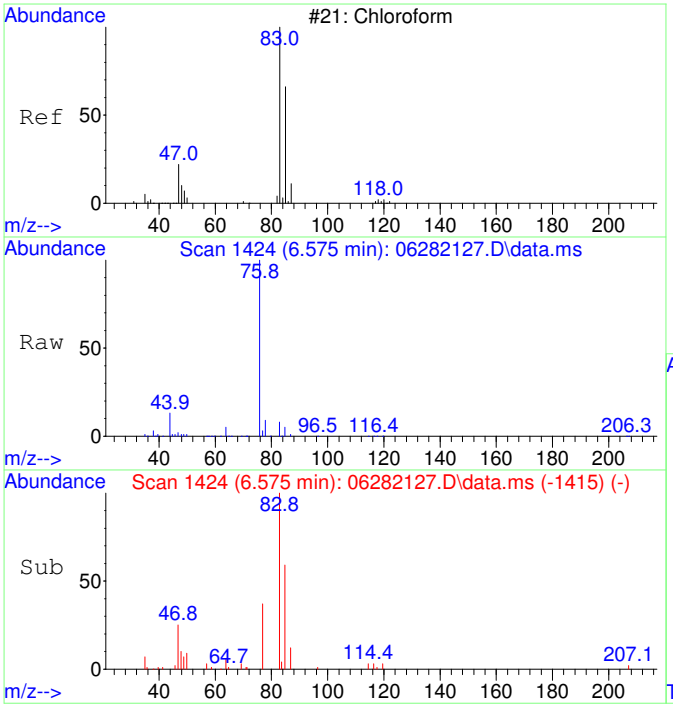


#29
cis-1,2-Dichloroethene SCAN
Concen: 72.46 ug/L
RT: 5.997 min Scan# 1354
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 61 Resp: 418

Ion	Ratio	Lower	Upper
61	100		
96	170.3	36.9	96.9#
98	0.0	12.1	72.1#
64	229.2	0.0	32.6#

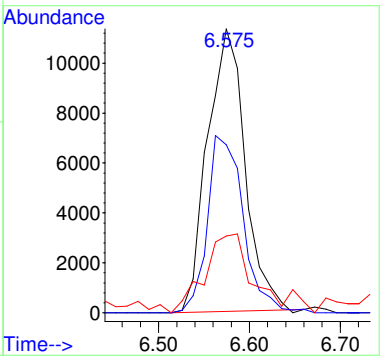


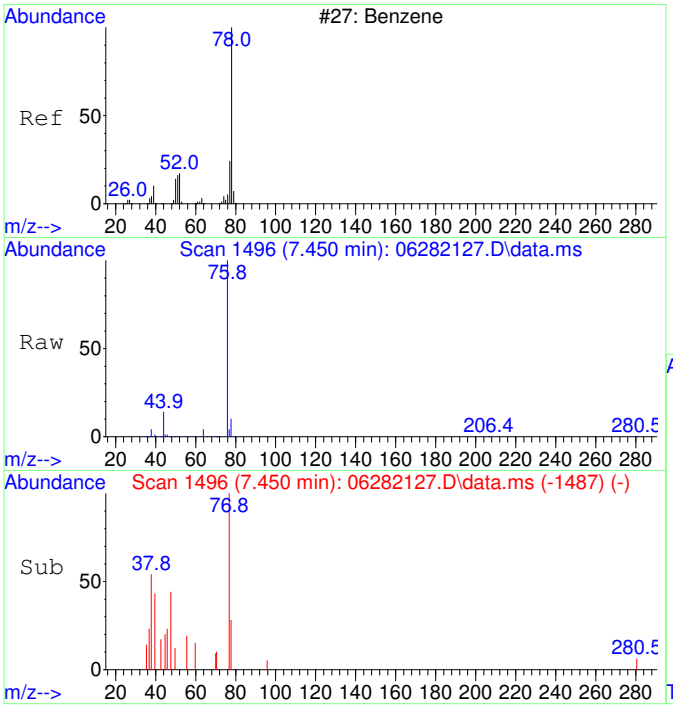


#30
Chloroform SCAN
Concen: 5329.34 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 83 Resp: 32511

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	37.5	7.5	67.5

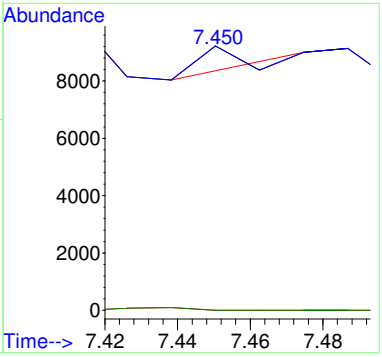


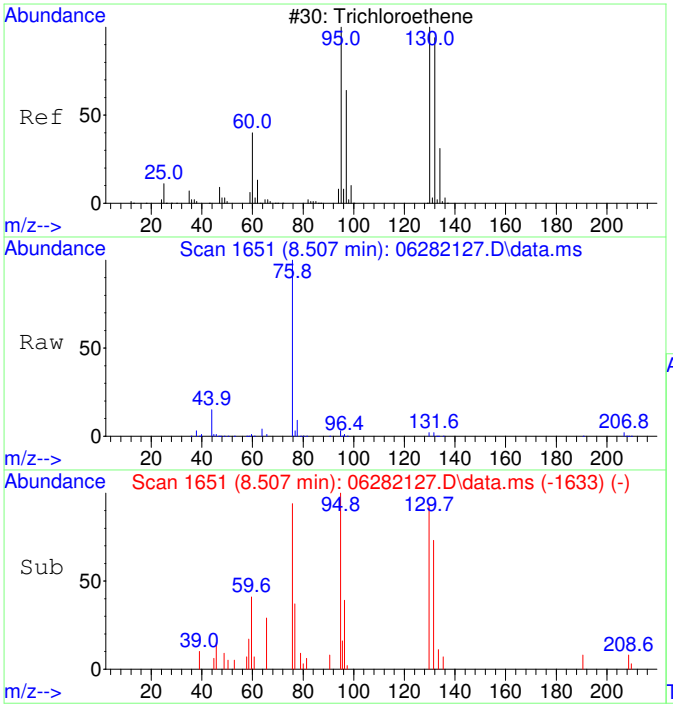


#33
Benzene SCAN
Concen: 53.81 ug/L
RT: 7.450 min Scan# 1496
Delta R.T. 0.012 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 78 Resp: 770

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	16.6	0.0	46.7
51	16.6	0.0	46.7

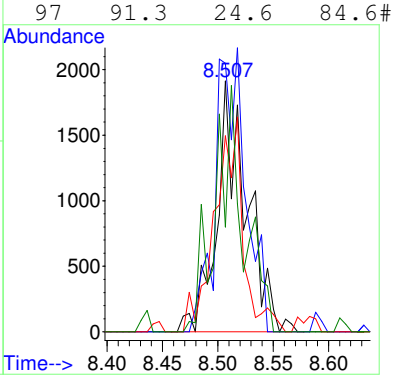


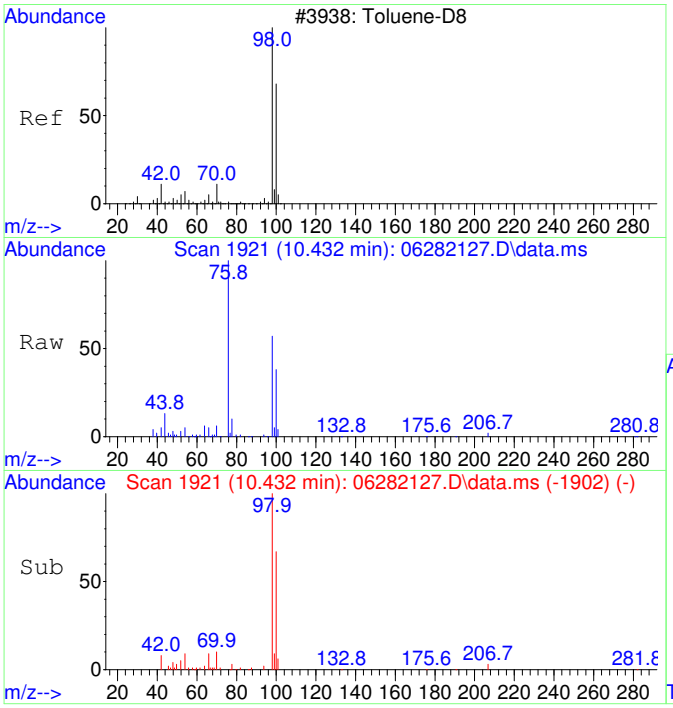


#35
Trichloroethene SCAN
Concen: 988.02 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion:130 Resp: 3604

Ion	Ratio	Lower	Upper
130	100		
95	113.2	60.0	120.0
132	79.8	54.3	114.3
97	91.3	24.6	84.6#

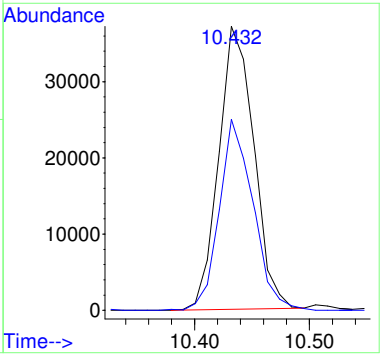


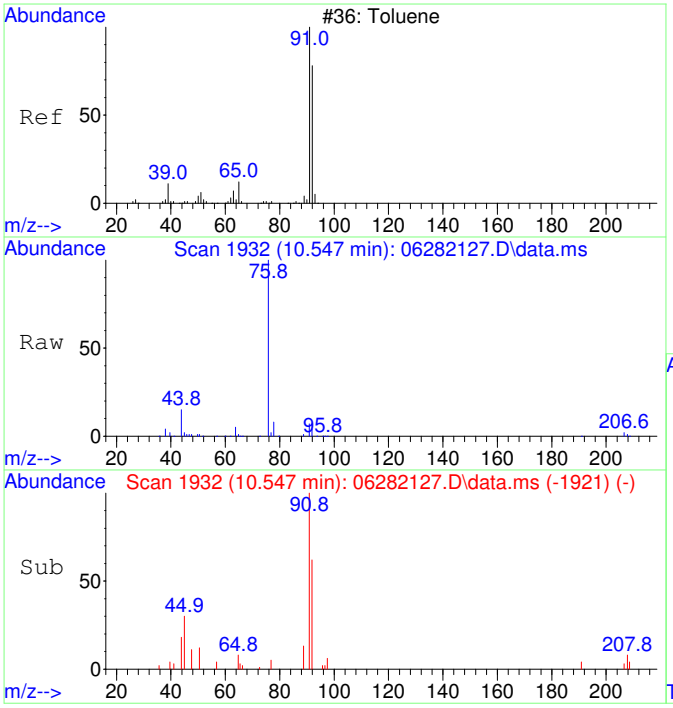


#36
Toluene-d8 SCAN
Concen: 4881.69 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 98 Resp: 79054

Ion	Ratio	Lower	Upper
98	100		
100	64.9	36.1	96.1

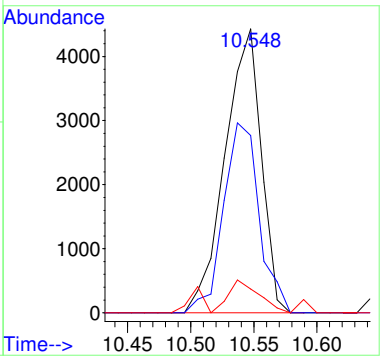


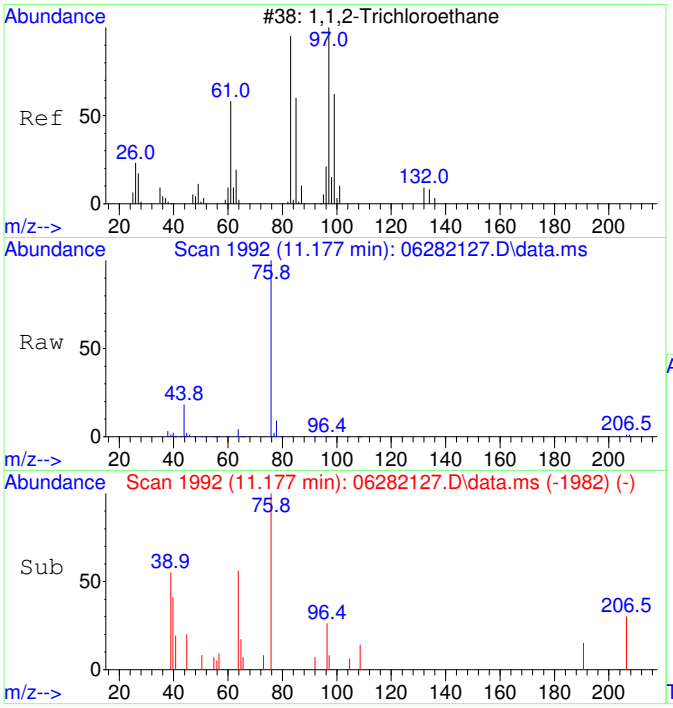


#37
Toluene SCAN
Concen: 421.91 ug/L
RT: 10.547 min Scan# 1932
Delta R.T. 0.010 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 91 Resp: 8843

Ion	Ratio	Lower	Upper
91	100		
92	66.1	26.5	86.5
65	9.8	0.0	40.6

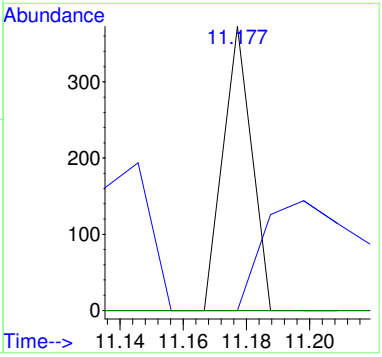


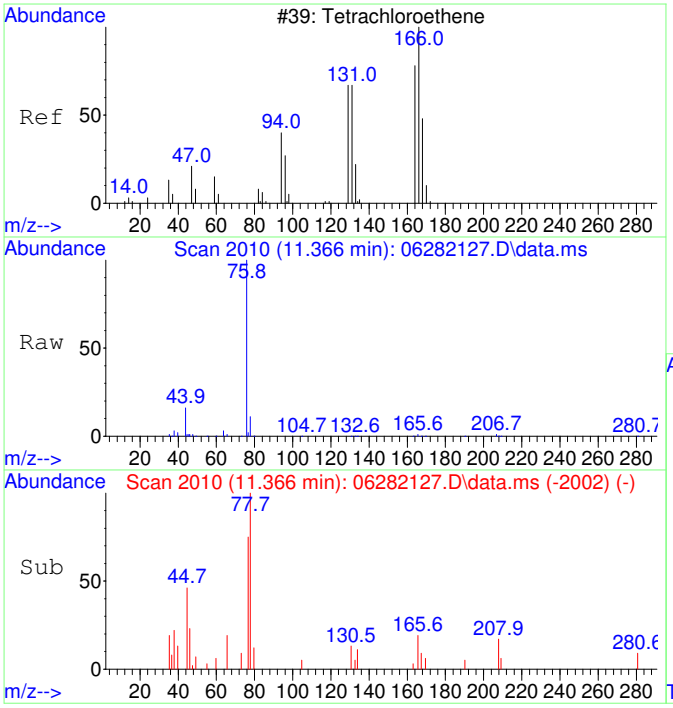


#38
1,1,2-Trichloroethane SCAN
Concen: 47.07 ug/L
RT: 11.177 min Scan# 1992
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 97 Resp: 235

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

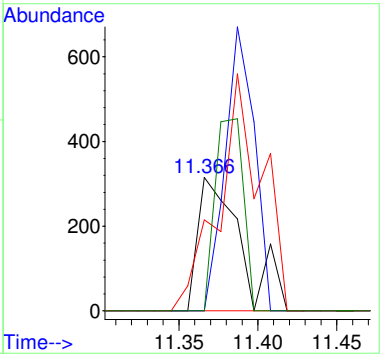


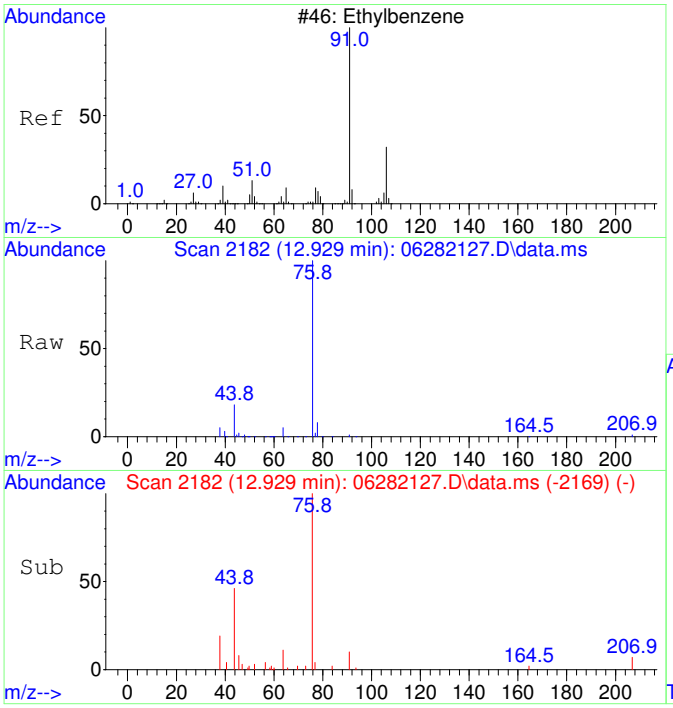


#39
Tetrachloroethene SCAN
Concen: 118.68 ug/L
RT: 11.366 min Scan# 2010
Delta R.T. -0.021 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion:166 Resp: 599

Ion	Ratio	Lower	Upper
166	100		
164	0.0	53.9	113.9#
131	0.0	45.6	105.6#
129	0.0	51.3	111.3#

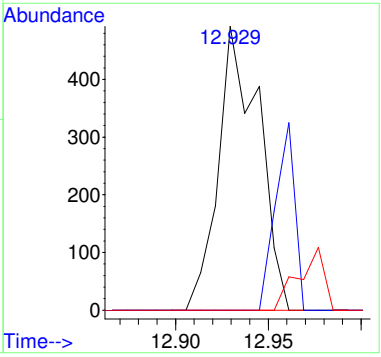


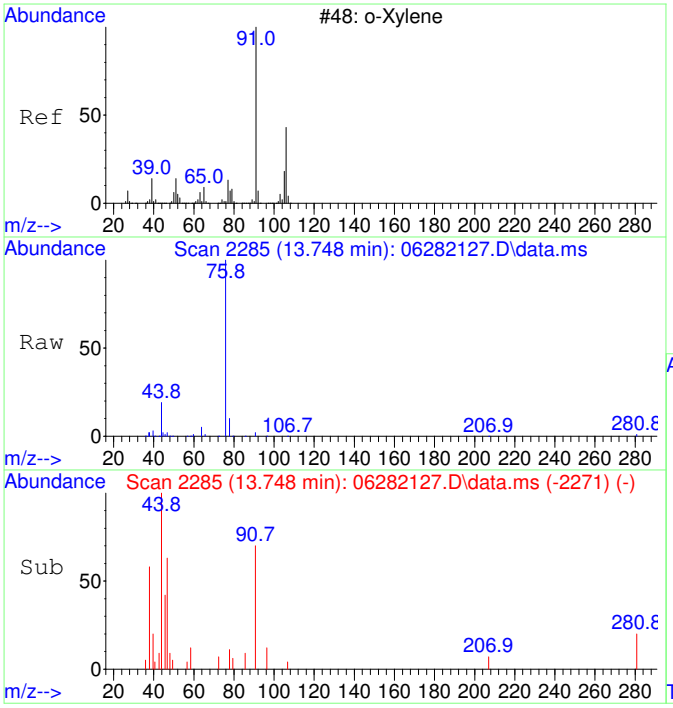


#42
Ethylbenzene SCAN
Concen: 26.88 ug/L
RT: 12.929 min Scan# 2182
Delta R.T. -0.000 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 91 Resp: 751

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.5	60.5#
51	0.0	0.0	39.6

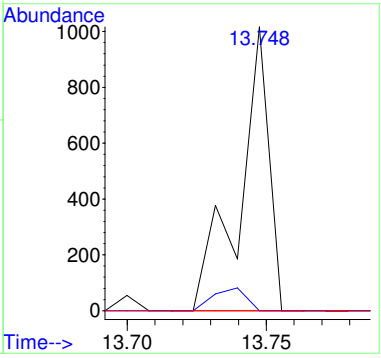




#44
o-Xylene SCAN
Concen: 32.84 ug/L
RT: 13.748 min Scan# 2285
Delta R.T. 0.008 min
Lab File: 06282127.D
Acq: 28 Jun 2021 20:23

Tgt Ion: 91 Resp: 753

Ion	Ratio	Lower	Upper
91	100		
106	9.0	19.1	79.1#
105	0.0	0.0	55.6



2106037-20

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282128.D
Acq On : 28 Jun 2021 20:49
InstName : AG5975C
Operator : TD
Sample : 2106037-20
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 29 06:07:35 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

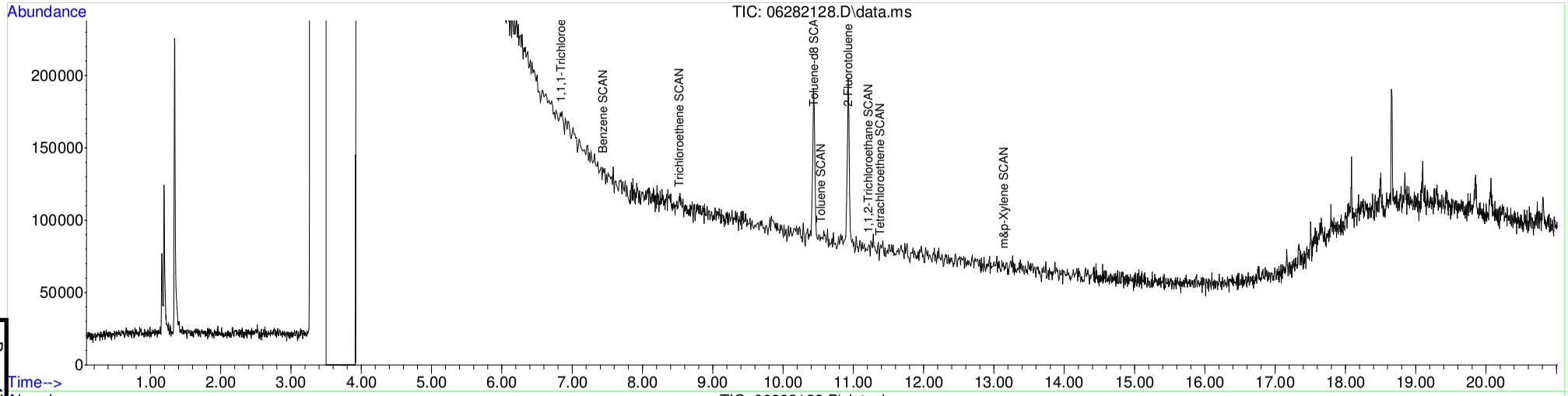
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	163104	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	141601	5068.34	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.37%			
Target Compounds						Qvalue
11] Trichloroethene	8.514	130	395	55.84	ug/L #	84
15] Tetrachloroethene	11.389	166	331	35.58	ug/L #	100
19] m&p-Xylene	13.121	91	1579	42.92	ug/L #	97
25) 2-Fluorotoluene SCAN	10.925	109	92504	4607.78	ug/L	94
31) 1,1,1-Trichloroethane ...	6.842	97	205	33.45	ug/L #	28
33) Benzene SCAN	7.438	78	1717	111.58	ug/L #	90
35) Trichloroethene SCAN	8.518	130	236	60.17	ug/L #	58
36) Toluene-d8 SCAN	10.432	98	80288	4611.03	ug/L	89
37) Toluene SCAN	10.537	91	1381	61.28	ug/L #	31
38) 1,1,2-Trichloroethane ...	11.209	97	484	90.16	ug/L #	14
39) Tetrachloroethene SCAN	11.377	166	433	79.79	ug/L #	14
43) m&p-Xylene SCAN	13.136	91	1256	28.02	ug/L #	53

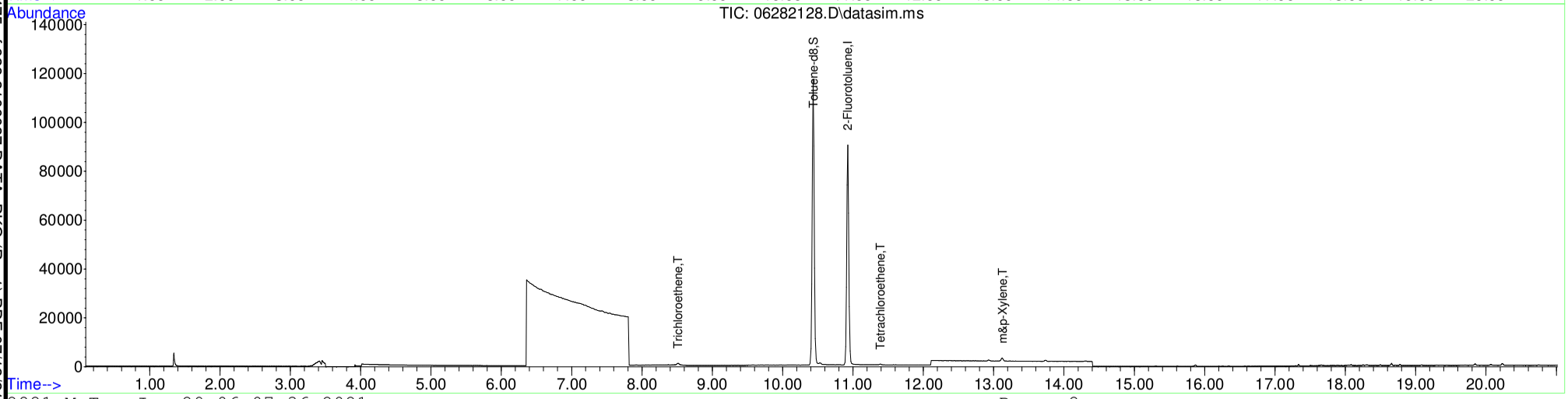
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282128.D
Acq On : 28 Jun 2021 20:49
InstName : AG5975C
Operator : TD
Sample : 2106037-20
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 29 06:07:35 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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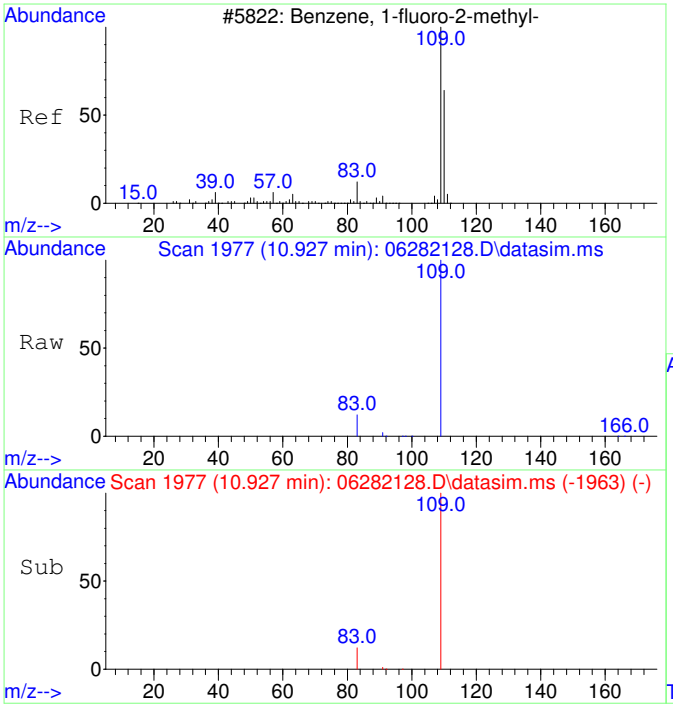
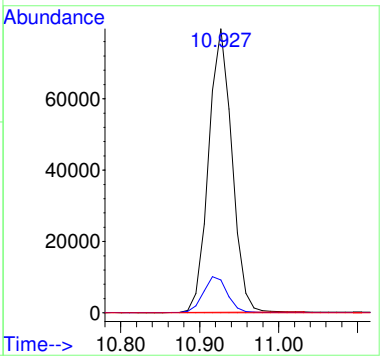
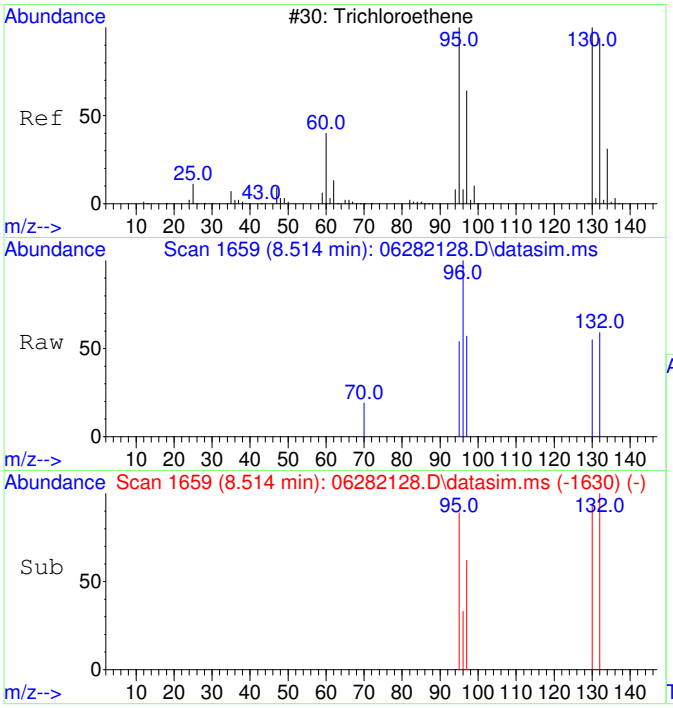


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion:109 Resp: 163104

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

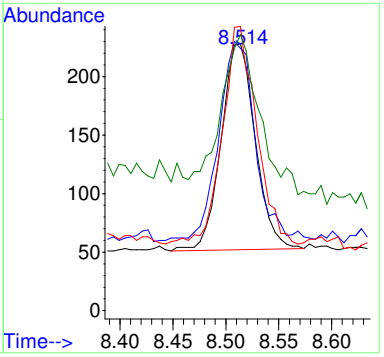


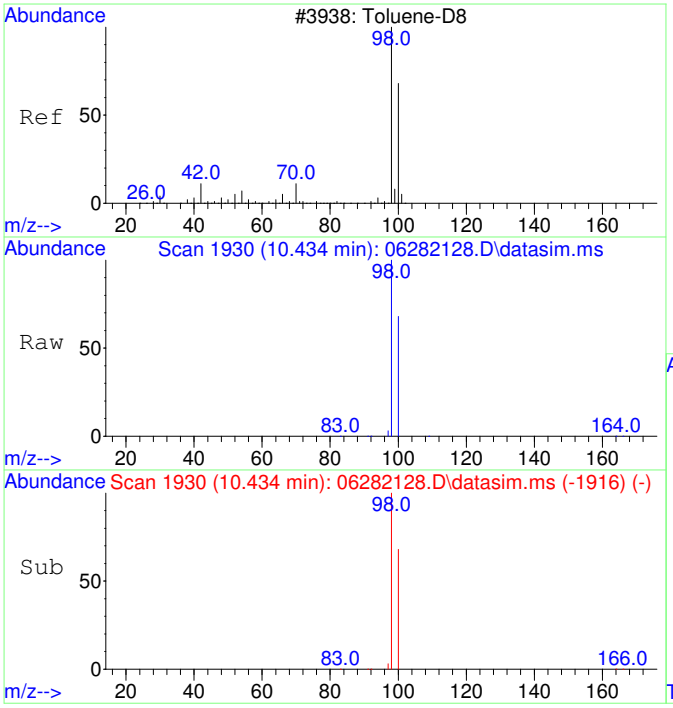


#11
Trichloroethene
Concen: 55.84 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion:130 Resp: 395

Ion	Ratio	Lower	Upper
130	100		
95	101.8	65.8	125.8
132	105.3	75.8	115.8
97	94.7	42.0	82.0#

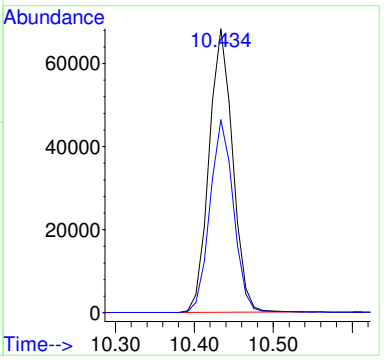


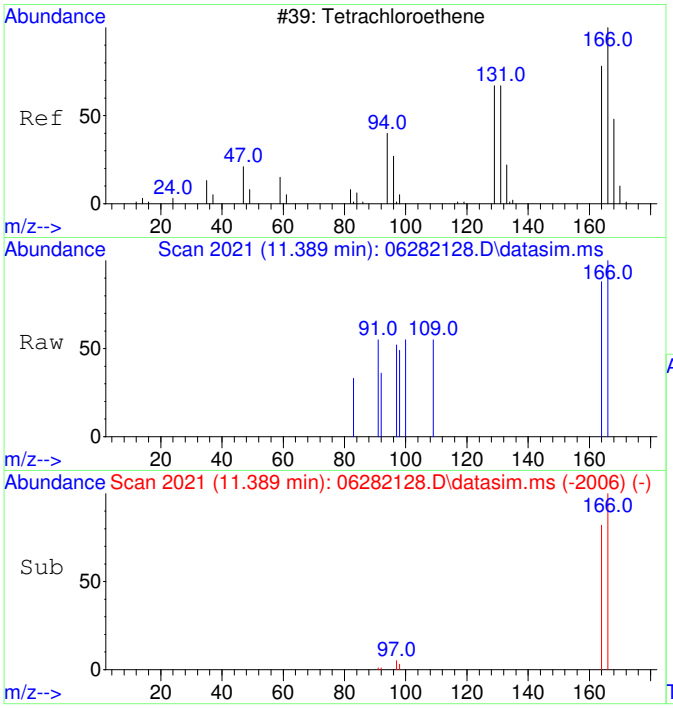


#12
Toluene-d8
Concen: 5068.34 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion: 98 Resp: 141601

Ion	Ratio	Lower	Upper
98	100		
100	67.5	37.3	97.3

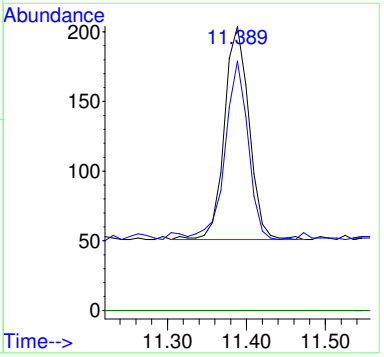


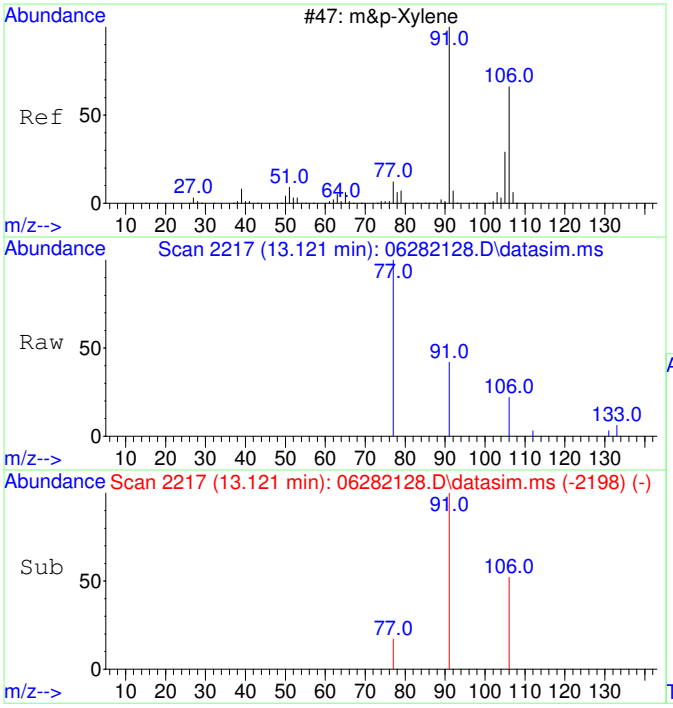


#15
Tetrachloroethene
Concen: 35.58 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion:166 Resp: 331

Ion	Ratio	Lower	Upper
166	100		
164	77.6	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

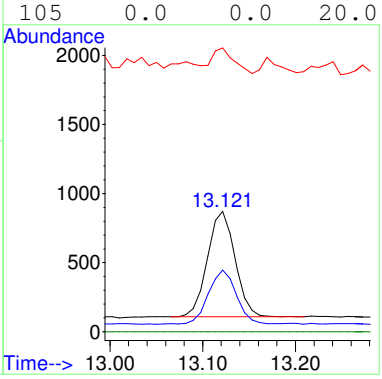


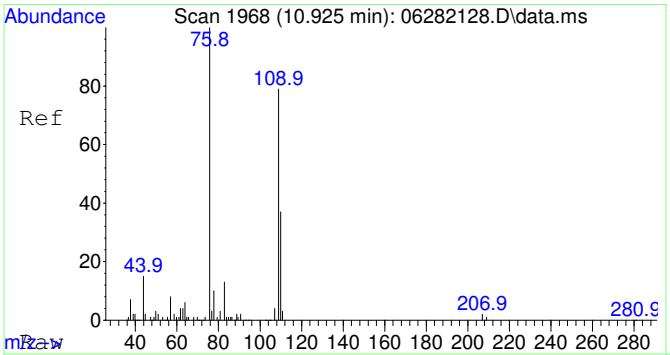


#19
m&p-Xylene
Concen: 42.92 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion: 91 Resp: 1579

Ion	Ratio	Lower	Upper
91	100		
106	51.4	21.4	81.4
77	19.3	0.0	42.7
105	0.0	0.0	20.0

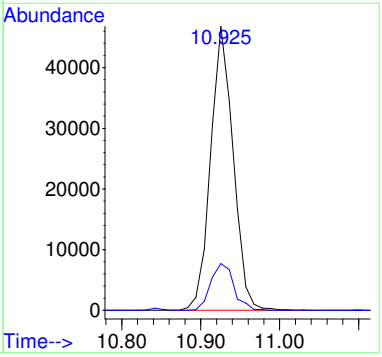


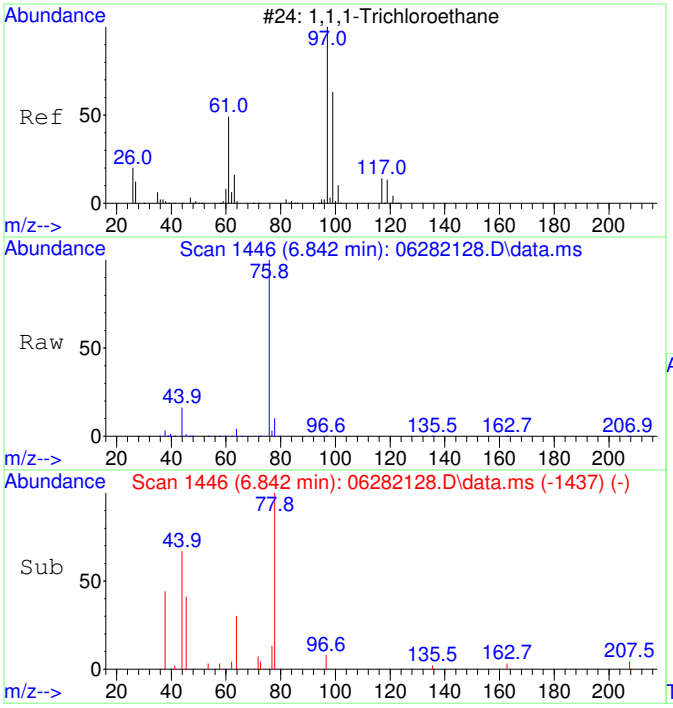


#25
2-Fluorotoluene SCAN
Concen: 4607.78 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion:109 Resp: 92504

Ion	Ratio	Lower	Upper
109	100		
83	16.9	0.0	44.5

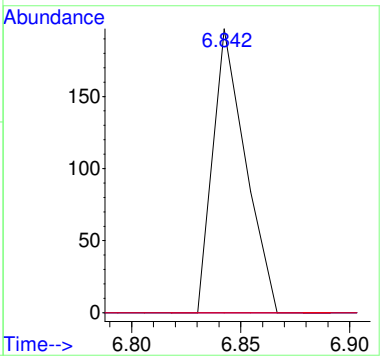


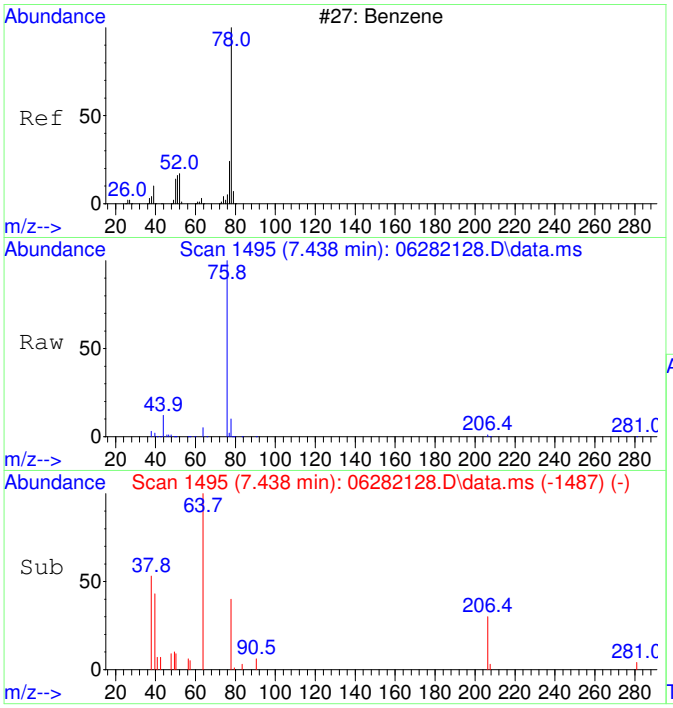


#31
1,1,1-Trichloroethane SCAN
Concen: 33.45 ug/L
RT: 6.842 min Scan# 1446
Delta R.T. 0.012 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion: 97 Resp: 205

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

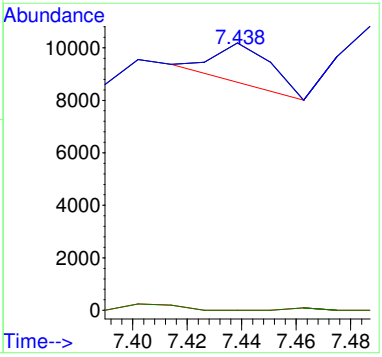


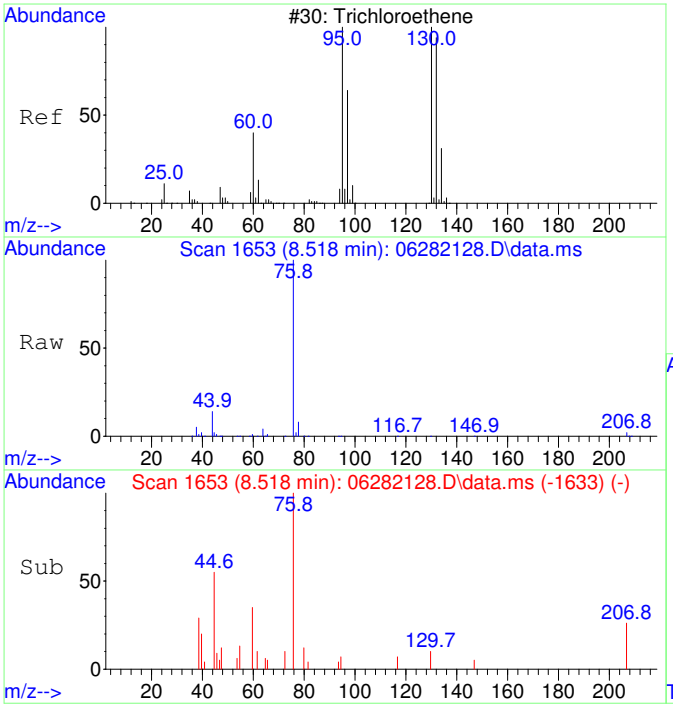


#33
Benzene SCAN
Concen: 111.58 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion: 78 Resp: 1717

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

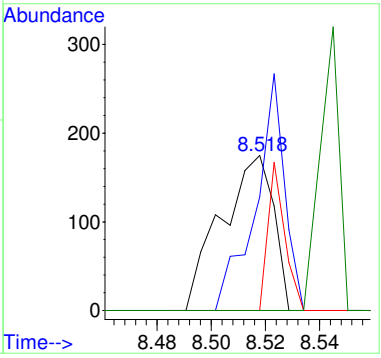


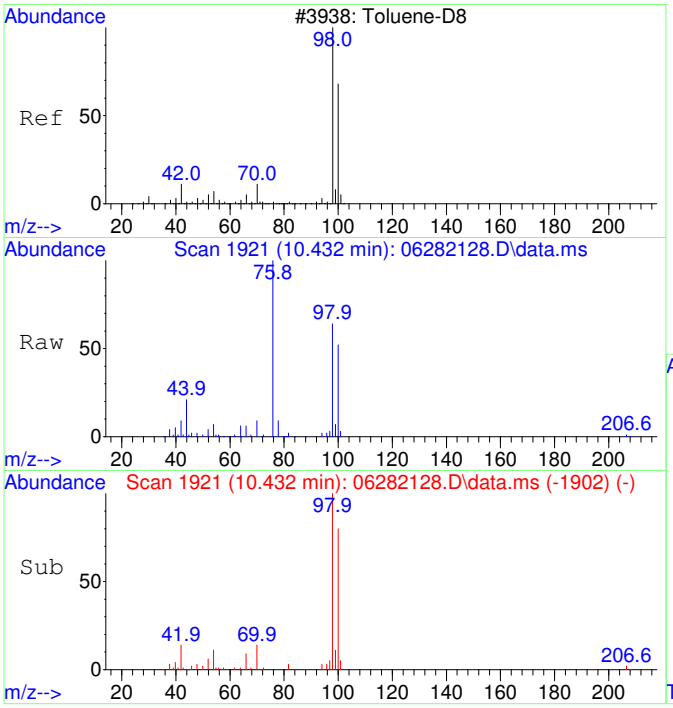


#35
Trichloroethene SCAN
Concen: 60.17 ug/L
RT: 8.518 min Scan# 1653
Delta R.T. 0.011 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion:130 Resp: 236

Ion	Ratio	Lower	Upper
130	100		
95	84.3	60.0	120.0
132	30.5	54.3	114.3#
97	0.0	24.6	84.6#

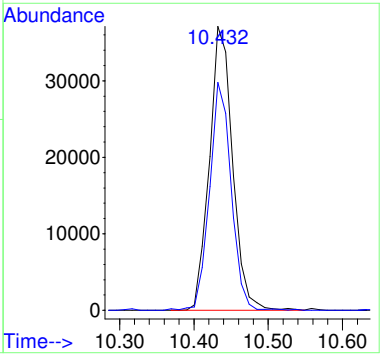


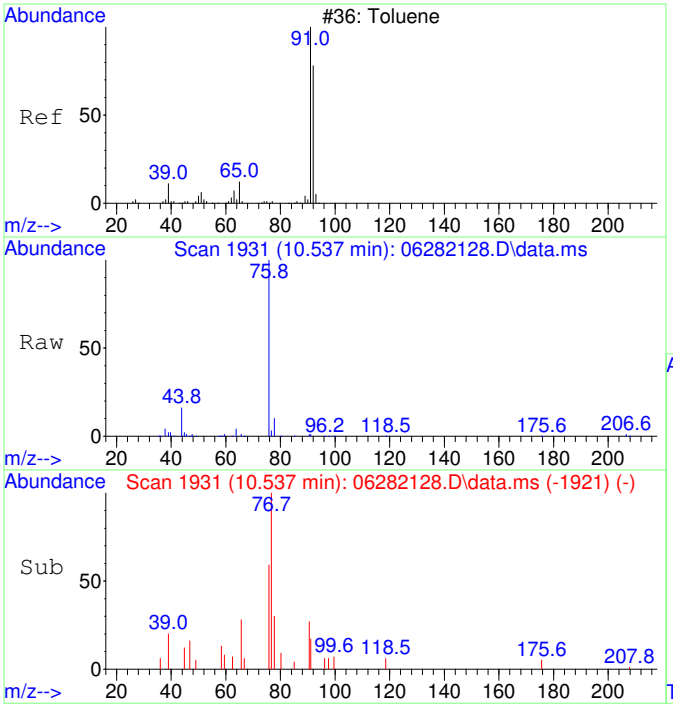


#36
Toluene-d8 SCAN
Concen: 4611.03 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion: 98 Resp: 80288

Ion	Ratio	Lower	Upper
98	100		
100	74.8	36.1	96.1

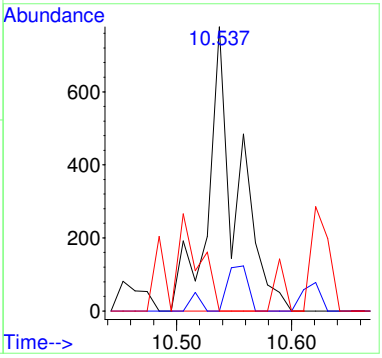


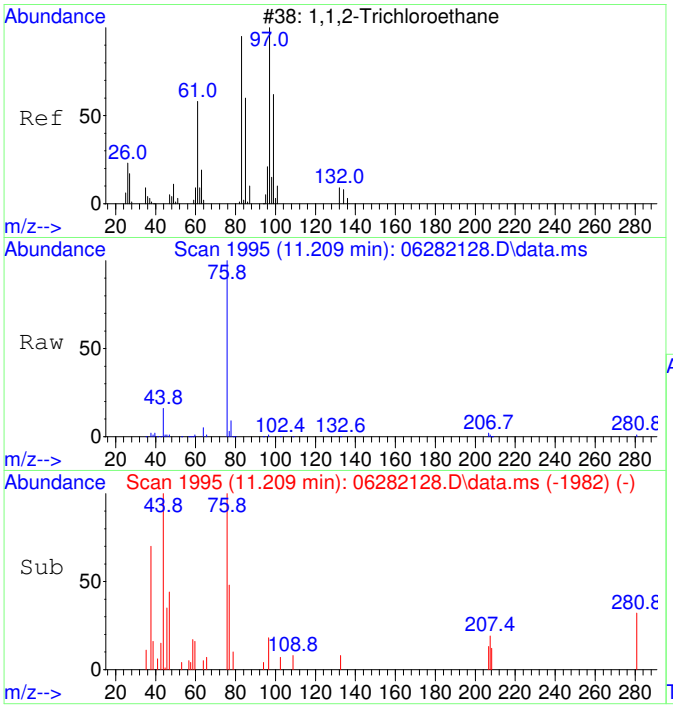


#37
Toluene SCAN
Concen: 61.28 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion: 91 Resp: 1381

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.5	86.5#
65	0.0	0.0	40.6

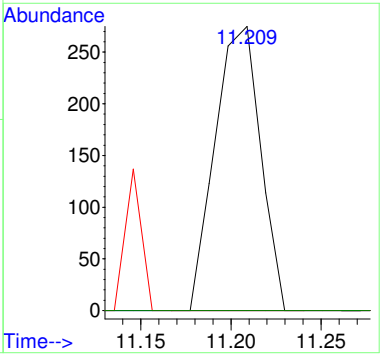


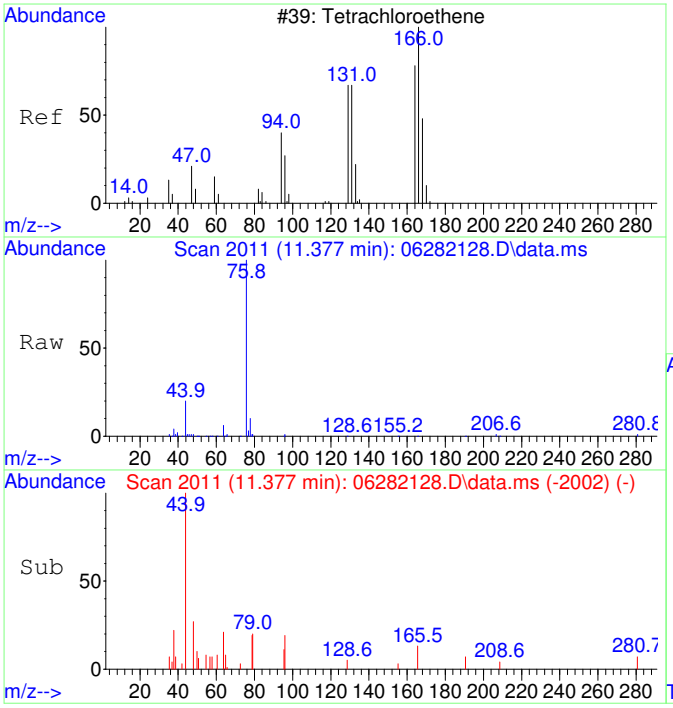


#38
1,1,2-Trichloroethane SCAN
Concen: 90.16 ug/L
RT: 11.209 min Scan# 1995
Delta R.T. 0.032 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion: 97 Resp: 484

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

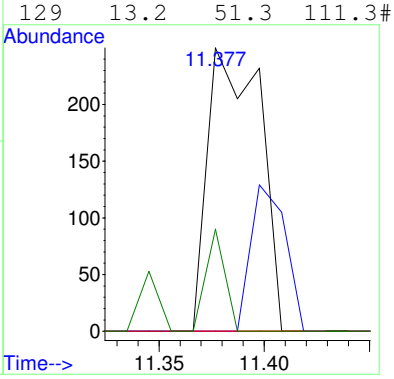


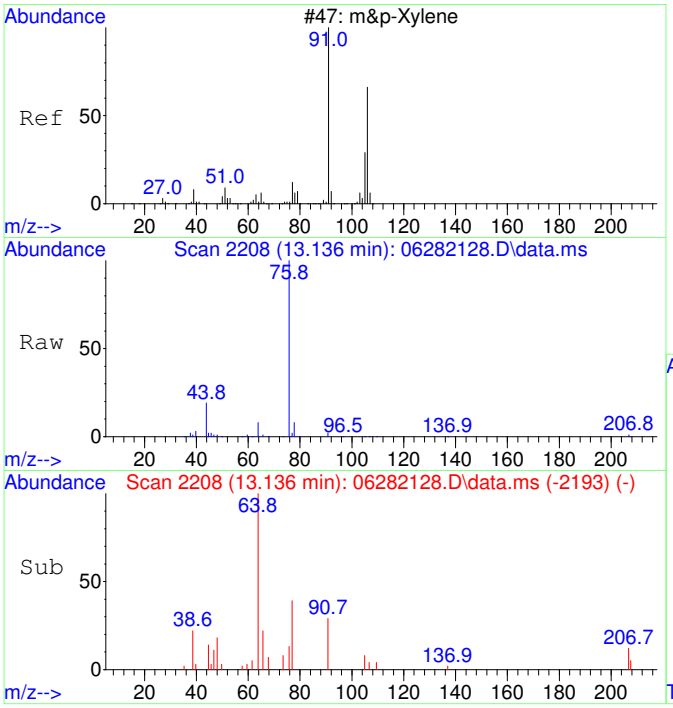


#39
Tetrachloroethene SCAN
Concen: 79.79 ug/L
RT: 11.377 min Scan# 2011
Delta R.T. -0.010 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion:166 Resp: 433

Ion	Ratio	Lower	Upper
166	100		
164	0.0	53.9	113.9#
131	0.0	45.6	105.6#
129	13.2	51.3	111.3#

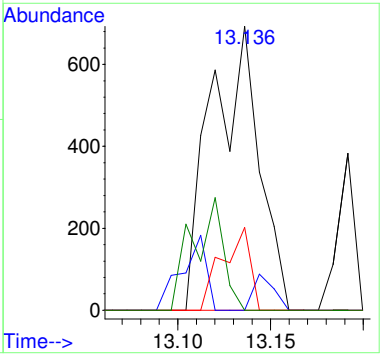




#43
m&p-Xylene SCAN
Concen: 28.02 ug/L
RT: 13.136 min Scan# 2208
Delta R.T. 0.016 min
Lab File: 06282128.D
Acq: 28 Jun 2021 20:49

Tgt Ion: 91 Resp: 1256

Ion	Ratio	Lower	Upper
91	100		
106	5.3	21.2	81.2#
105	17.0	0.0	51.6
51	0.0	0.0	41.7



SEQUENCE

S21F073

Sequence Date: 06/29/2021

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B21F073	SEQUENCE #:	S21F068 06/29/21
BATCH #:	B21F080	ANALYSIS:	VOA Passive Air AG5975C

	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 Apr 29 06:45:57 2021			
	Initial Calibration ID (LIMS number):	2104012			
	ICAL within QC criteria?	✔			Chlorobenzene = 27%
	SCV within QC criteria?	✔			
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?	☐	Y	Y	
	CCV(s) within QC criteria?	☐	Y	Y	
	QLS(s) within QC criteria?	☐	Y	Y	
	CB(s) or storage blank(s) within QC criteria?	✔			
	Other instrument checks within QC criteria? Specify if applicable.	✔			
BATCH QCs	Method blanks < 1/2 QL?	☐	Y	Y	
	LCS(s) or SRM(s) within QC criteria?	☐	Y	Y	
	MSs/MSDs and/or DUPs within QC criteria?	✔			
	Other method-specific QCs within QC criteria? Specify if applicable.	✔			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B21F073	SEQUENCE #:	S21F068 06/29/21
BATCH #:	B21F080	ANALYSIS:	VOA Passive Air AG5975C

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☐	Y	Y	
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	✔			
	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.	✔			

APPROVALS	ANALYST INITIALS & DATE:	TD 07/06/21
	REVIEWED BY:	ZIYAD RAJABI (Affiliate) Digitally signed by ZIYAD RAJABI (Affiliate) Date: 2021.07.07 11:05:04 -07'00' SIGN HERE

COMMENTS

FORM #: Q015
REV #: 1

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2021\062921\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	06292101.D	1	S21F073-IBL1		29 Jun 2021 8:46
2	06292102.D	1	S21F073-TUN1	BFB 2117016	29 Jun 2021 9:10
3	06292103.D	1	S21F073-CCV1	2106039 5 mg/L	29 Jun 2021 9:19
4	06292104.D	1	S21F073-CRL1	2106042 0.05 mg/L	29 Jun 2021 9:46
5	06292105.D	1	B21F080-BLK1		29 Jun 2021 10:12
6	06292106.D	1	B21F080-BS1		29 Jun 2021 10:39
7	06292107.D	1	B21F080-BSD1		29 Jun 2021 11:05
8	06292108.D	1	B21F080-MRL1		29 Jun 2021 11:31
9	06292109.D	1	2106037-21		29 Jun 2021 11:58
10	06292110.D	1	2106037-22		29 Jun 2021 12:24
11	06292111.D	1	2106037-23		29 Jun 2021 12:50
12	06292112.D	1	2106037-24		29 Jun 2021 13:17
13	06292113.D	1	2106037-25		29 Jun 2021 13:43
14	06292114.D	1	2106037-26		29 Jun 2021 14:09
15	06292115.D	1	2106037-27		29 Jun 2021 14:36
16	06292116.D	1	2106037-28		29 Jun 2021 15:02
17	06292117.D	1	2106037-29		29 Jun 2021 15:29
18	06292118.D	1	2106037-30		29 Jun 2021 15:55
19	06292119.D	1	2106037-31		29 Jun 2021 16:21

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2021\062921\06292102.D
Tune Time : 29 Jun 2021 9:10

Daily Calibration File : C:\msdchem\1\Ravioli Data\2021\062921\06292103.D

File	Sample	Surrogate Recovery %	Internal Standard Responses
			169666
06292103.D	S21F073-CC	104	169666
06292104.D	S21F073-CR	1*	191233
06292105.D	B21F080-BL	101	129645
06292106.D	B21F080-BS1	102	164267
06292107.D	B21F080-BSD1	102	183686
06292108.D	B21F080-MR	102	152864
06292109.D	2106037-21	101	125067
06292110.D	2106037-22	101	139088
06292111.D	2106037-23	101	134099
06292112.D	2106037-24	101	131894
06292113.D	2106037-25	101	134481
06292114.D	2106037-26	100	145312
06292115.D	2106037-27	101	126449
06292116.D	2106037-28	100	121071
06292117.D	2106037-29	102	122824
06292118.D	2106037-30	101	124605
06292119.D	2106037-31	101	150943

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

Created: Wed Jun 30 06:08:07 2021 AG5975C

Analysis Sequence

S21F073

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2104012 Printed: 07/06/2021 12:03 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S21F073-IBL1	Instrument Blank	1	6/29/21 8:46			TD	06292101.D	
S21F073-TUN1	BFB	2	6/29/21 9:10	2117016		TD	06292102.D	
S21F073-CCV1	Calibration Check	3	6/29/21 9:19	2106039		TD	06292103.D	
S21F073-CRL1	CRL - high	4	6/29/21 9:46	2106042		TD	06292104.D	
B21F080-BLK1	Blank	5	6/29/21 10:12			TD	06292105.D	
B21F080-BS1	LCS	6	6/29/21 10:39			TD	06292106.D	
B21F080-BSD1	LCS Dup	7	6/29/21 11:05			TD	06292107.D	
B21F080-MRL1	MRL Check	8	6/29/21 11:31			TD	06292108.D	
2106037-21 A	F6-033-3ft-1d	9	6/29/21 11:58			TD	06292109.D	
2106037-22 A	F6-031-2.5ft-1d	10	6/29/21 12:24			TD	06292110.D	
2106037-23 A	F6-055-2.5ft-1d	11	6/29/21 12:50			TD	06292111.D	
2106037-24 A	F6-029-3ft-1d	12	6/29/21 13:17			TD	06292112.D	
2106037-25 A	F6-027-3ft-1d	13	6/29/21 13:43			TD	06292113.D	
2106037-26 A	F6-025-2.5ft-1d	14	6/29/21 14:09			TD	06292114.D	
2106037-27 A	F6-023-3ft-1d	15	6/29/21 14:36			TD	06292115.D	
2106037-28 A	F6-023-3ft-D-1d	16	6/29/21 15:02			TD	06292116.D	
2106037-29 A	F6-021-2t-1d	17	6/29/21 15:29			TD	06292117.D	
2106037-30 A	F6-053-2ft-1d	18	6/29/21 15:55			TD	06292118.D	
2106037-31 A	F6-004-2.5ft-5hr	19	6/29/21 16:21			TD	06292119.D	

Sequence Comments

Analysis Sequence

S21F073

(Continued)

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2104012 Printed: 07/06/2021 12:03 pm

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

Reagents

Reagent #	Description

Table of Contents

SEQUENCE DATA

S21F073

S21F073-IBL1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292101.D
Acq On : 29 Jun 2021 8:46
InstName : AG5975C
Operator : TD
Sample : S21F073-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 09:42:43 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

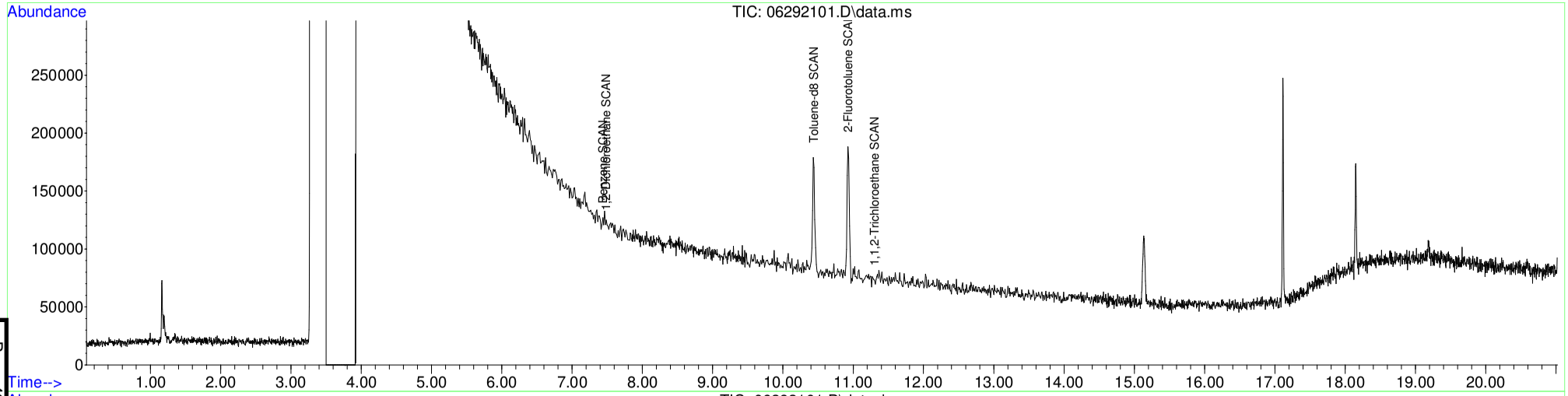
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	159920	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	135962	4963.40	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 99.27%			
Target Compounds						Qvalue
25) 2-Fluorotoluene SCAN	10.926	109	100393	5100.31	ug/L	96
33) Benzene SCAN	7.439	78	3795	251.54	ug/L #	90
34) 1,2-Dichloroethane SCAN	7.475	62	239	50.25	ug/L #	36
36) Toluene-d8 SCAN	10.432	98	77657	4548.72	ug/L	94
38) 1,1,2-Trichloroethane ...	11.303	97	156	29.64	ug/L #	14

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292101.D
Acq On : 29 Jun 2021 8:46
InstName : AG5975C
Operator : TD
Sample : S21F073-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 09:42:43 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration



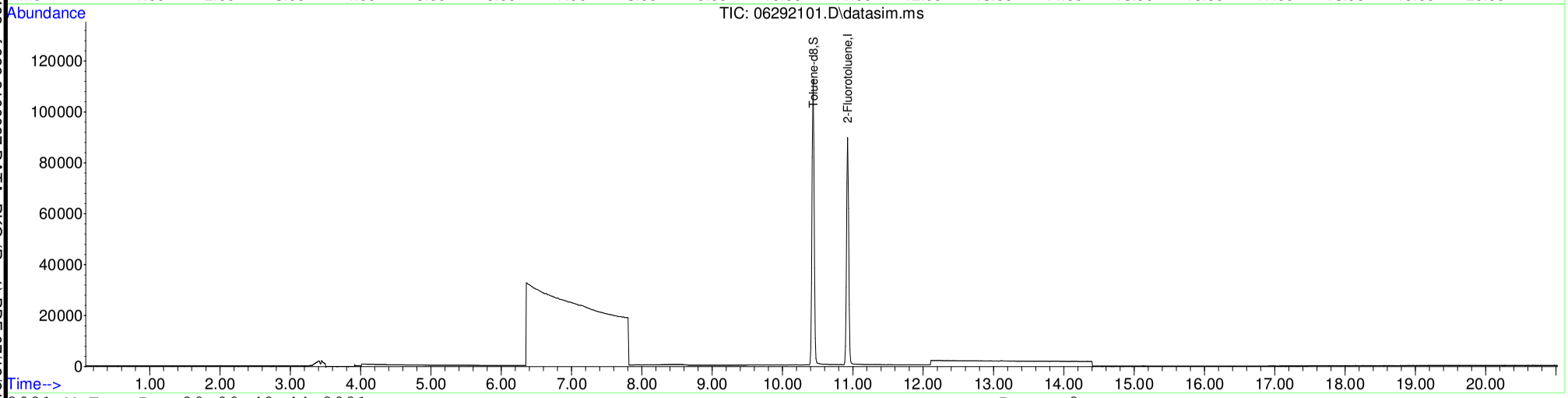


Table of Contents

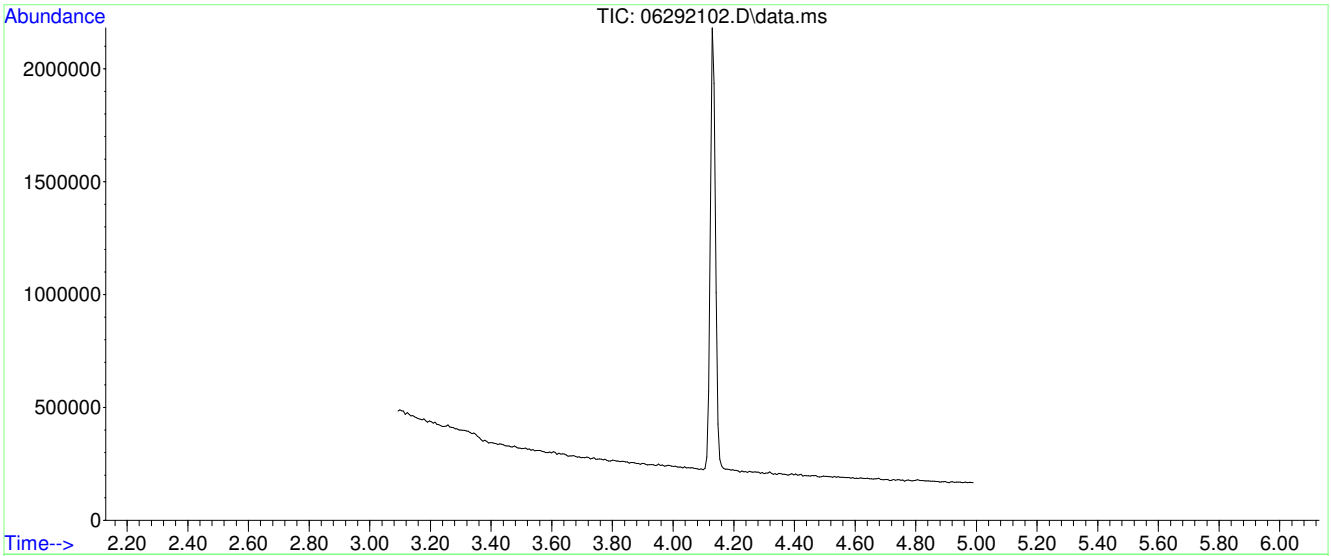
S21F073-TUN1

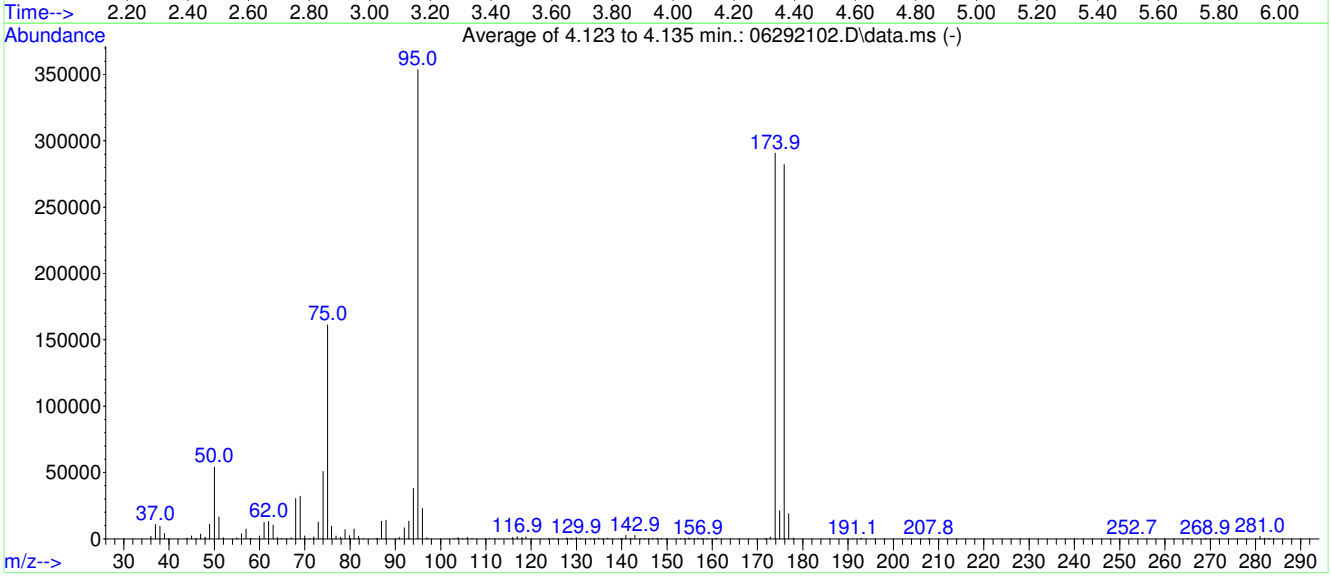
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292102.D
Acq On : 29 Jun 2021 9:10
Operator : TD
Sample : S21F073-TUN1
Misc : BFB 2117016
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Thu Apr 29 06:45:57 2021





AutoFind: Scans 170, 171, 172; Background Corrected with Scan 165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	54152	PASS
75	95	30	60	45.6	161238	PASS
95	95	100	100	100.0	353557	PASS
96	95	5	9	6.5	22813	PASS
173	174	0.00	2	0.5	1511	PASS
174	95	50	120	82.2	290773	PASS
175	174	5	9	7.3	21185	PASS
176	174	95	101	97.1	282261	PASS
177	176	5	9	6.7	18860	PASS

Average of 4.123 to 4.135 min.: 06292102.D\data.ms
S21F073-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	2001	50.00	54152	63.00	10380	74.00	50709
37.00	10888	51.00	16442	63.90	1010	75.00	161238
38.00	9495	52.05	803	64.95	393	75.90	9344
39.00	3905	55.00	720	65.90	63	76.90	2175
40.00	187	56.00	3720	67.00	772	77.90	1204
44.00	669	57.00	7493	68.00	30203	78.90	6953
45.00	2139	57.90	158	69.00	32112	79.90	2412
46.00	132	58.05	333	70.00	2242	80.90	7283
46.95	3585	60.00	2206	71.10	52	81.90	1854
48.00	1267	61.00	12444	71.95	1507	82.95	194
49.00	11064	62.00	13087	73.00	12711	85.80	105

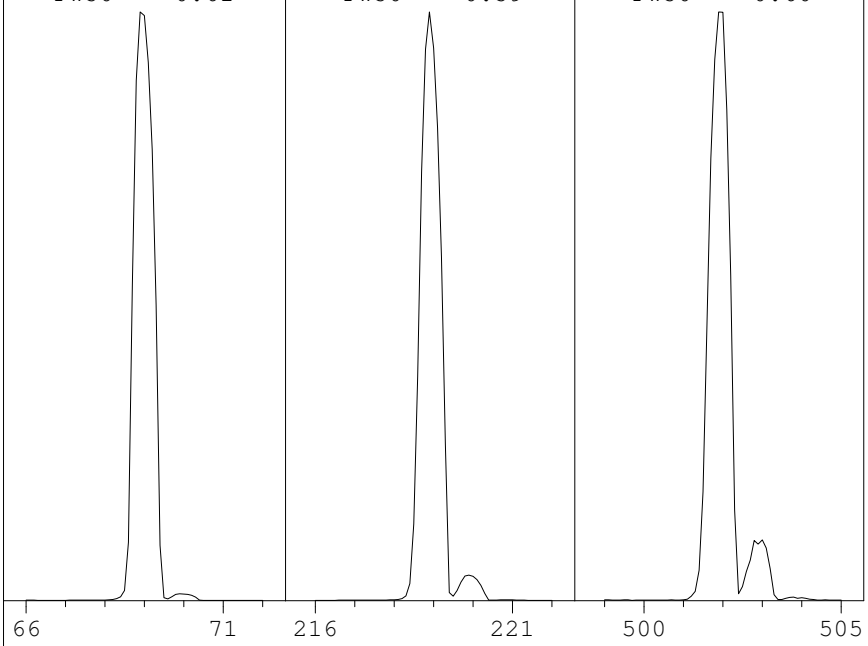
Average of 4.123 to 4.135 min.: 06292102.D\data.ms
S21F073-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.05	284	103.85	990	117.95	1098	133.80	70
86.90	13369	104.85	400	118.85	1509	134.90	537
87.90	14020	105.85	1216	123.80	156	135.70	53
90.90	1068	106.95	354	124.80	50	136.90	565
92.00	8397	109.80	168	125.90	57	139.70	81
93.00	13257	110.80	249	127.80	610	140.10	111
94.00	37907	111.95	165	128.00	387	140.90	2564
95.00	353557	112.95	143	128.85	596	141.90	314
96.00	22813	114.80	219	129.95	943	142.90	2622
97.00	759	115.85	1076	130.95	449	144.10	85
103.00	135	116.90	1631	133.05	103	144.95	301

Average of 4.123 to 4.135 min.: 06292102.D\data.ms
S21F073-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.95	445	157.70	51	176.90	18860	281.00	2018
146.85	340	157.90	76	177.90	586	281.95	534
147.85	664	158.85	330	191.05	230	282.90	213
148.75	244	160.70	122	192.80	219	283.10	231
149.90	278	160.95	257	193.00	72	284.00	62
153.00	150	171.70	117	207.80	66		
153.90	212	171.90	370	252.70	57		
154.80	473	172.85	1511	264.90	97		
155.00	313	173.90	290773	265.10	116		
156.00	148	174.90	21185	268.90	202		
156.90	541	175.90	282261	269.10	53		

Mass	68.90	Mass	218.90	Mass	501.90
Ab	789222	Ab	529706	Ab	24018
Pw50	0.61	Pw50	0.59	Pw50	0.60

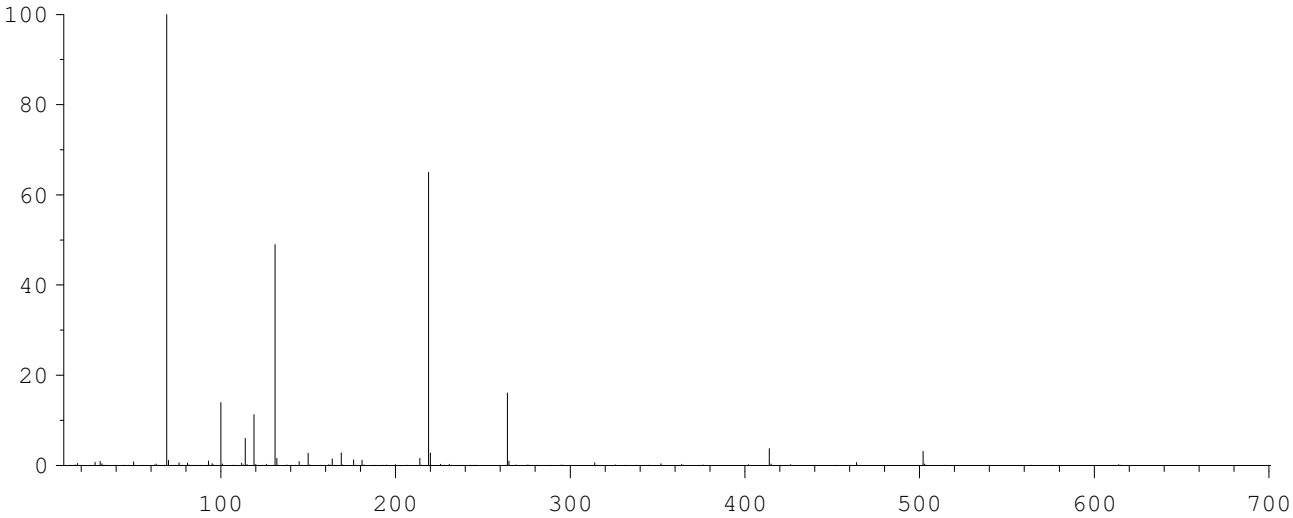


Ion Pol	Pos	MassGain	-1188
		MassOffs	-36
Emission	34.6	AmuGain	973
EIEnrgy	69.9	AmuOffs	123.63
Filament	1	Wid219	0.016
		DC Pol	Pos
Repeller	26.60		
IonFcus	75.0	HEDEnab	On
EntLens	22.0	EMVolts	1400
EntOffs	18.07		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

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
148 peaks Base: 69.00 Abundance: 773824



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	773824	100.00	70.00	8572	1.11
218.90	502912	64.99	220.00	21704	4.32
502.00	23920	3.09	503.00	2452	10.25

Air/Water Check: H20~0.43% N2~0.71% O2~0.35% CO2~0.08% N2/H2O~166.09%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 49228
Repeller Maximum 35 volts using ion 219; Gain Factor 0.49

MassGain Values(Samples): -1179(3) -1172(2) -1151(1) -1112(0) -1026(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	123.6	123.6	123.6	123.6	123.6	123.6	123.6
Entrance Lens Offset:	18.1	18.1	18.1	18.1	18.1	18.1	18.1

S21F073-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292103.D
Acq On : 29 Jun 2021 9:19
InstName : AG5975C
Operator : TD
Sample : S21F073-CCV1
Misc : 2106039 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 09:41:03 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
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	88	0.00
2	T	1,1-Dichloroethene	0.218	0.242	-11.0	96	0.00
3	T	trans-1,2-Dichloroethene	0.187	0.190	-1.6	87	0.00
4	T	1,1-Dichloroethane	0.257	0.280	-8.9	94	0.00
5	T	cis-1,2-Dichloroethene	0.246	0.264	-7.3	91	0.00
6	T	Chloroform	0.290	0.298	-2.8	93	0.00
7	T	1,1,1-Trichloroethane	0.270	0.289	-7.0	92	0.01
8	T	Carbon tetrachloride	0.235	0.252	-7.2	92	0.00
9	T	Benzene	0.814	0.790	2.9	91	0.01
10	T	1,2-Dichloroethane	0.224	0.244	-8.9	95	0.01
11	T	Trichloroethene	0.217	0.224	-3.2	89	0.00
12	S	Toluene-d8	0.856	0.890	-4.0	89	0.00
13	T	Toluene	1.115	1.093	2.0	88	0.00
14	T	1,1,2-Trichloroethane	0.232	0.238	-2.6	89	0.01
15	T	Tetrachloroethene	0.285	0.298	-4.6	89	0.01
16	T	Chlorobenzene	0.965	0.850	11.9	87	0.00
17	T	1,1,1,2-Tetrachloroethane	0.257	0.265	-3.1	88	0.00
18	T	Ethylbenzene	1.432	1.412	1.4	85	0.00
19	T	m&p-Xylene	1.128	1.107	1.9	86	0.00
20	T	o-Xylene	1.220	1.206	1.1	86	0.00
21	T	1,1,2,2-Tetrachloroethane	0.532	0.523	1.7	85	0.00
22	T	1,3,5-Trimethylbenzene	1.433	1.427	0.4	86	0.00
23	T	1,2,4-Trimethylbenzene	1.492	1.472	1.3	86	0.00
24	T	Naphthalene	2.787	3.112	-11.7	95	0.00
25		2-Fluorotoluene SCAN	0.615	0.585	4.9	83	0.01
26		1,1-Dichloroethene SCAN	0.130	0.164	-26.2	111	0.00
27		trans-1,2-Dichloroethene SC	0.141	0.124	12.1	77	0.00
28		1,1-Dichloroethane SCAN	0.188	0.185	1.6	86	0.00
29		cis-1,2-Dichloroethene SCAN	0.190	0.182	4.2	84	0.00
30		Chloroform SCAN	0.201	0.175	12.9	76	0.01
31		1,1,1-Trichloroethane SCAN	0.188	0.193	-2.7	90	0.00
32		Carbon tetrachloride SCAN	0.155	0.147	5.2	83	0.01
33		Benzene SCAN	0.472	0.512	-8.5	95	0.00
34		1,2-Dichloroethane SCAN	0.149	0.168	-12.8	99	0.01
35		Trichloroethene SCAN	0.120	0.130	-8.3	95	0.00
36		Toluene-d8 SCAN	0.534	0.540	-1.1	89	0.00
37		Toluene SCAN	0.691	0.693	-0.3	88	0.00
38		1,1,2-Trichloroethane SCAN	0.165	0.154	6.7	82	0.01
39		Tetrachloroethene SCAN	0.166	0.155	6.6	81	0.00
40		Chlorobenzene SCAN	0.515	0.487	5.4	83	0.00
41		1,1,1,2-Tetrachloroethane S	0.153	0.147	3.9	84	0.00
42		Ethylbenzene SCAN	0.921	0.857	6.9	81	0.00
43		m&p-Xylene SCAN	1.374	1.333	3.0	85	0.00
44		o-Xylene SCAN	0.756	0.724	4.2	84	0.00
45		1,1,2,2-Tetrachloroethane S	0.369	0.349	5.4	83	0.00
46		1,3,5-Trimethylbenzene SCAN	0.830	0.786	5.3	83	0.00
47		1,2,4-Trimethylbenzene SCAN	0.859	0.839	2.3	86	0.00
48		Naphthalene SCAN	1.567	1.606	-2.5	90	0.00

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

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292103.D
Acq On : 29 Jun 2021 9:19
InstName : AG5975C
Operator : TD
Sample : S21F073-CCV1
Misc : 2106039 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 09:41:03 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

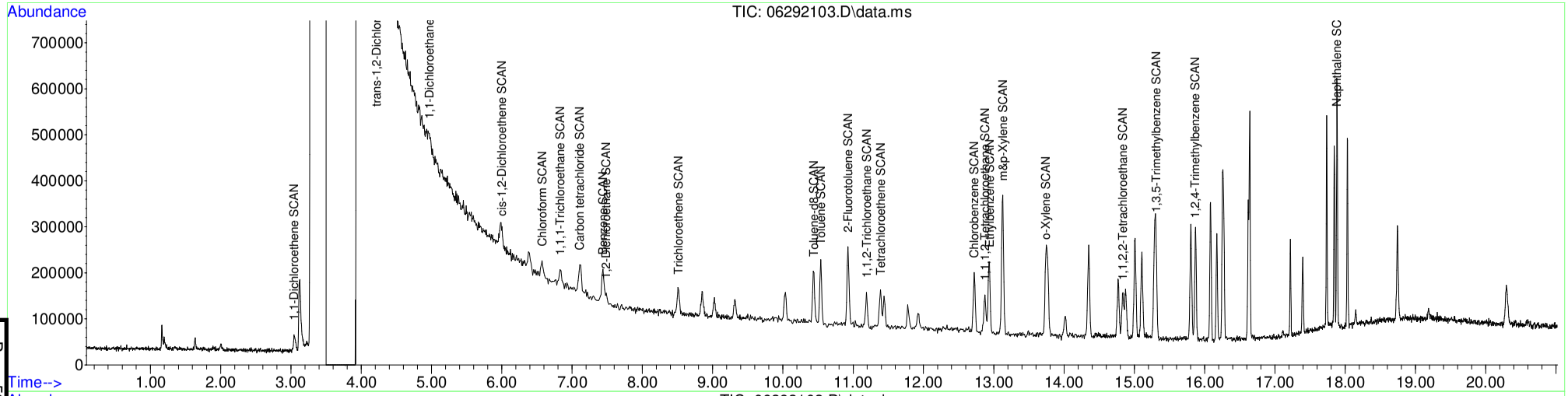
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	169666	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	150945	5193.84 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 103.88%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	41104	5562.18 ug/L #	98
3] trans-1,2-Dichloroethene	4.221	61	32244	5069.98 ug/L #	100
4] 1,1-Dichloroethane	4.970	63	47567	5453.26 ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	44824	5363.13 ug/L #	100
6] Chloroform	6.564	83	50510	5135.05 ug/L #	100
7] 1,1,1-Trichloroethane	6.832	97	48969	5350.42 ug/L #	100
8] Carbon tetrachloride	7.099	117	42671	5351.64 ug/L #	100
9] Benzene	7.440	78	134066	4851.17 ug/L #	99
10] 1,2-Dichloroethane	7.476	62	41402	5446.92 ug/L #	98
11] Trichloroethene	8.508	130	37959	5158.38 ug/L	99
13] Toluene	10.528	91	185397	4900.90 ug/L	100
14] 1,1,2-Trichloroethane	11.189	97	40379	5130.95 ug/L #	100
15] Tetrachloroethene	11.389	166	50569	5225.62 ug/L #	100
16] Chlorobenzene	12.724	112	144300	4404.73 ug/L #	99
17] 1,1,1,2-Tetrachloroethane	12.875	131	44885	5149.14 ug/L #	100
18] Ethylbenzene	12.931	91	239588	4931.50 ug/L #	100
19] m&p-Xylene	13.121	91	375702	9816.55 ug/L #	100
20] o-Xylene	13.741	91	204630	4943.52 ug/L #	99
21] 1,1,2,2-Tetrachloroethane	14.835	83	88734	4919.05 ug/L #	100
22] 1,3,5-Trimethylbenzene	15.307	105	242186	4981.54 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	249746	4931.89 ug/L #	99
24] Naphthalene	17.882	128	527988	5582.14 ug/L #	100
25) 2-Fluorotoluene SCAN	10.925	109	99178	4749.16 ug/L	99
26) 1,1-Dichloroethene SCAN	3.044	61	27901	6325.54 ug/L	97
27) trans-1,2-Dichloroethe...	4.213	61	21098	4421.44 ug/L	95
28) 1,1-Dichloroethane SCAN	4.962	63	31434	4915.38 ug/L	83
29) cis-1,2-Dichloroethene...	5.998	61	30796	4773.27 ug/L	98
30) Chloroform SCAN	6.575	83	29719	4355.60 ug/L	85
31) 1,1,1-Trichloroethane ...	6.830	97	32693	5128.12 ug/L	94
32) Carbon tetrachloride SCAN	7.110	117	24954	4743.67 ug/L	92
33) Benzene SCAN	7.438	78	86936	5431.30 ug/L	100
34) 1,2-Dichloroethane SCAN	7.487	62	28451	5637.96 ug/L	94
35) Trichloroethene SCAN	8.512	130	22052	5405.05 ug/L	86
36) Toluene-d8 SCAN	10.432	98	91541	5053.97 ug/L	99
37) Toluene SCAN	10.537	91	117660	5019.08 ug/L	97
38) 1,1,2-Trichloroethane ...	11.188	97	26127	4678.54 ug/L	95
39) Tetrachloroethene SCAN	11.387	166	26257	4651.21 ug/L	98
40) Chlorobenzene SCAN	12.723	112	82709	4732.77 ug/L	94
41) 1,1,1,2-Tetrachloroeth...	12.874	131	24857	4790.13 ug/L	89
42) Ethylbenzene SCAN	12.938	91	145377	4652.09 ug/L	100
43) m&p-Xylene SCAN	13.128	91	226126	4850.38 ug/L	96
44) o-Xylene SCAN	13.740	91	122911	4792.61 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.833	83	59180	4720.75 ug/L	99
46) 1,3,5-Trimethylbenzene...	15.306	105	133350	4736.50 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.867	105	142375	4883.15 ug/L	97
48) Naphthalene SCAN	17.881	128	272429	5124.77 ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292103.D
Acq On : 29 Jun 2021 9:19
InstName : AG5975C
Operator : TD
Sample : S21F073-CCV1
Misc : 2106039 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 09:41:03 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration



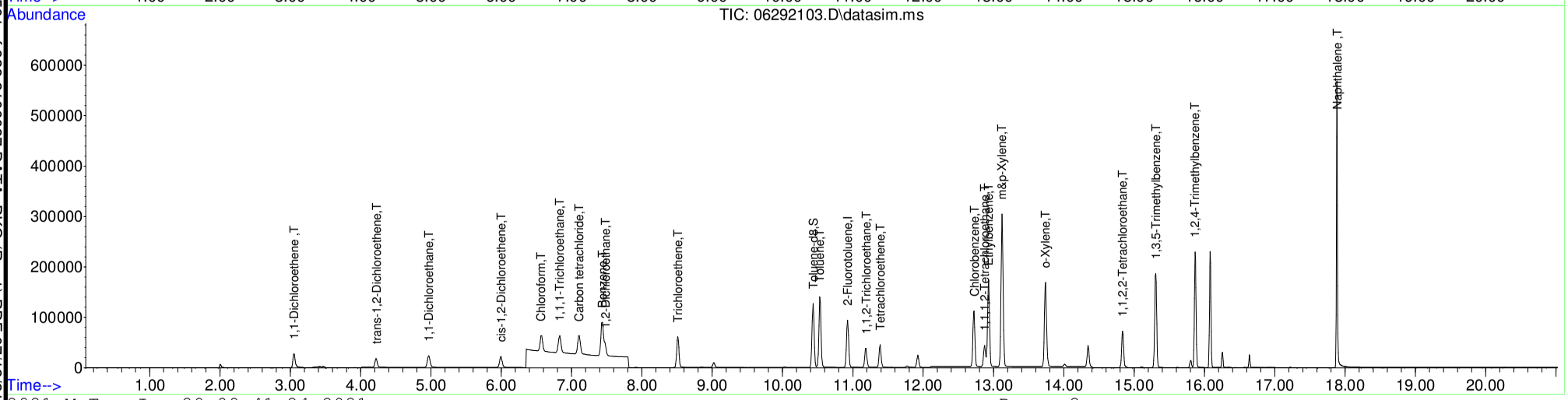


Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292103.D
Acq On : 29 Jun 2021 9:19
InstName : AG5975C
Operator : TD
Sample : S21F073-CCV1
Misc : 2106039 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 09:41:03 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

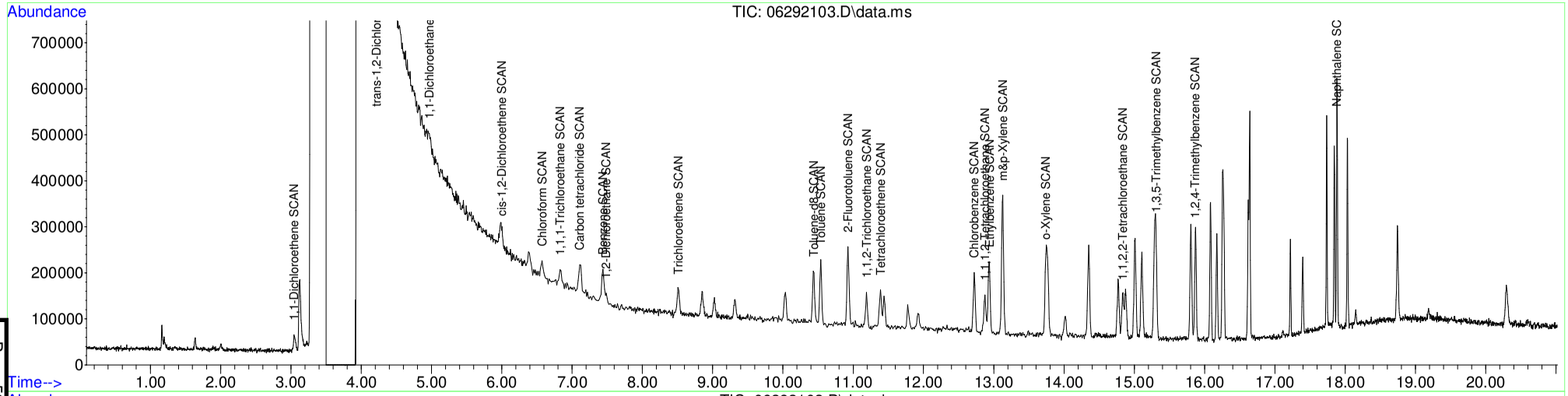
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	169666	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	150945	5193.84 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 103.88%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	41104	5562.18 ug/L #	98
3] trans-1,2-Dichloroethene	4.221	61	32244	5069.98 ug/L #	100
4] 1,1-Dichloroethane	4.970	63	47567	5453.26 ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	44824	5363.13 ug/L #	100
6] Chloroform	6.564	83	50510	5135.05 ug/L #	100
7] 1,1,1-Trichloroethane	6.832	97	48969	5350.42 ug/L #	100
8] Carbon tetrachloride	7.099	117	42671	5351.64 ug/L #	100
9] Benzene	7.440	78	134066	4851.17 ug/L #	99
10] 1,2-Dichloroethane	7.476	62	41402	5446.92 ug/L #	98
11] Trichloroethene	8.508	130	37959	5158.38 ug/L	99
13] Toluene	10.528	91	185397	4900.90 ug/L	100
14] 1,1,2-Trichloroethane	11.189	97	40379	5130.95 ug/L #	100
15] Tetrachloroethene	11.389	166	50569	5225.62 ug/L #	100
16] Chlorobenzene	12.724	112	144300	4404.73 ug/L #	99
17] 1,1,1,2-Tetrachloroethane	12.875	131	44885	5149.14 ug/L #	100
18] Ethylbenzene	12.931	91	239588	4931.50 ug/L #	100
19] m&p-Xylene	13.121	91	375702	9816.55 ug/L #	100
20] o-Xylene	13.741	91	204630	4943.52 ug/L #	99
21] 1,1,2,2-Tetrachloroethane	14.835	83	88734	4919.05 ug/L #	100
22] 1,3,5-Trimethylbenzene	15.307	105	242186	4981.54 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	249746	4931.89 ug/L #	99
24] Naphthalene	17.882	128	527988	5582.14 ug/L #	100
25) 2-Fluorotoluene SCAN	10.925	109	99178	4749.16 ug/L	99
26) 1,1-Dichloroethene SCAN	3.044	61	27901	6325.54 ug/L	97
27) trans-1,2-Dichloroethe...	4.213	61	21098	4421.44 ug/L	95
28) 1,1-Dichloroethane SCAN	4.962	63	31434	4915.38 ug/L	83
29) cis-1,2-Dichloroethene...	5.998	61	30796	4773.27 ug/L	98
30) Chloroform SCAN	6.575	83	29719	4355.60 ug/L	85
31) 1,1,1-Trichloroethane ...	6.830	97	32693	5128.12 ug/L	94
32) Carbon tetrachloride SCAN	7.110	117	24954	4743.67 ug/L	92
33) Benzene SCAN	7.438	78	86936	5431.30 ug/L	100
34) 1,2-Dichloroethane SCAN	7.487	62	28451	5637.96 ug/L	94
35) Trichloroethene SCAN	8.512	130	22052	5405.05 ug/L	86
36) Toluene-d8 SCAN	10.432	98	91541	5053.97 ug/L	99
37) Toluene SCAN	10.537	91	117660	5019.08 ug/L	97
38) 1,1,2-Trichloroethane ...	11.188	97	26127	4678.54 ug/L	95
39) Tetrachloroethene SCAN	11.387	166	26257	4651.21 ug/L	98
40) Chlorobenzene SCAN	12.723	112	82709	4732.77 ug/L	94
41) 1,1,1,2-Tetrachloroeth...	12.874	131	24857	4790.13 ug/L	89
42) Ethylbenzene SCAN	12.938	91	145377	4652.09 ug/L	100
43) m&p-Xylene SCAN	13.128	91	226126	4850.38 ug/L	96
44) o-Xylene SCAN	13.740	91	122911	4792.61 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.833	83	59180	4720.75 ug/L	99
46) 1,3,5-Trimethylbenzene...	15.306	105	133350	4736.50 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.867	105	142375	4883.15 ug/L	97
48) Naphthalene SCAN	17.881	128	272429	5124.77 ug/L	96

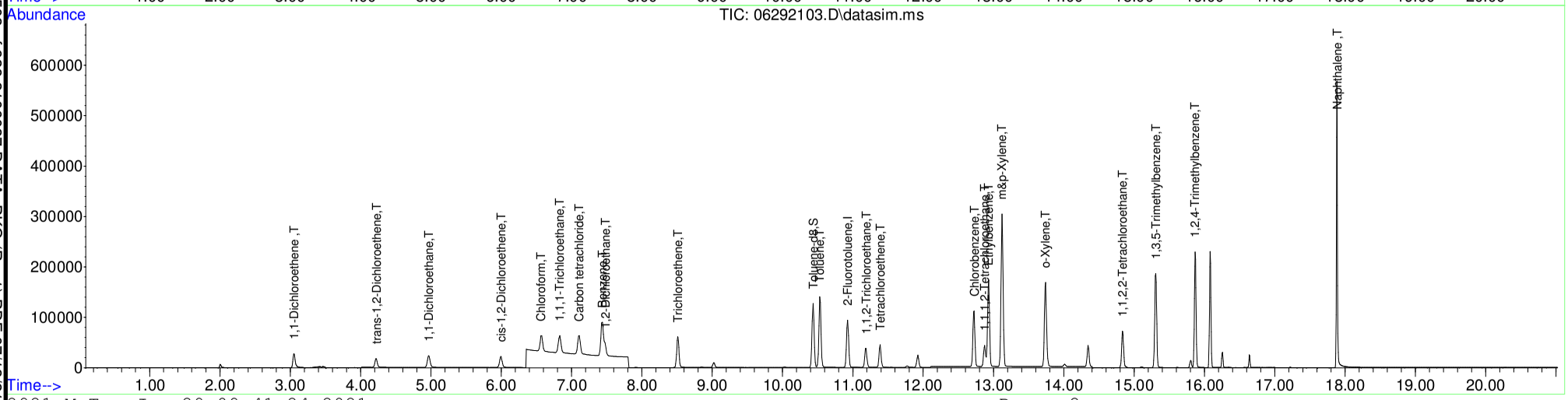
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292103.D
Acq On : 29 Jun 2021 9:19
InstName : AG5975C
Operator : TD
Sample : S21F073-CCV1
Misc : 2106039 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 09:41:03 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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S21F073-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S21F073-CRL1
Misc Info: 2106042 0.05 mg/L
Date Acquired: 6/29/21 9:46
QLast Update: Thu Apr 29 06:45:57 2021
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.927	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.049	50.0	46.58	93%	60	140	pass
3)	trans-1,2-Dichloroethene	4.214	50.0	47.43	95%	60	140	pass
4)	1,1-Dichloroethane	4.964	50.0	47.20	94%	60	140	pass
5)	cis-1,2-Dichloroethene	5.992	50.0	48.73	97%	60	140	pass
6)	Chloroform	6.564	50.0	54.57	109%	60	140	pass
11)	Trichloroethene	8.508	50.0	49.19	98%	60	140	pass
12)	Toluene-d8	10.433	50.0	51.35	103%	60	140	pass
13)	Toluene	10.528	50.0	56.83	114%	60	140	pass
14)	1,1,2-Trichloroethane	11.179	50.0	52.09	104%	60	140	pass
15)	Tetrachloroethene	11.378	50.0	51.25	103%	60	140	pass
16)	Chlorobenzene	12.716	50.0	76.62	153%	60	140	FAIL
17)	1,1,1,2-Tetrachloroethane	12.867	50.0	50.89	102%	60	140	pass
18)	Ethylbenzene	12.923	50.0	50.15	100%	60	140	pass
19)	m&p-Xylene	13.121	100.0	103.37	103%	60	140	pass
20)	o-Xylene	13.733	50.0	50.65	101%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.831	50.0	48.50	97%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.302	50.0	52.47	105%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.863	50.0	56.26	113%	60	140	pass
24)	Naphthalene	17.882	50.0	82.39	165%	60	140	FAIL

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292104.D
Acq On : 29 Jun 2021 9:46
InstName : AG5975C
Operator : TD
Sample : S21F073-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:07:25 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

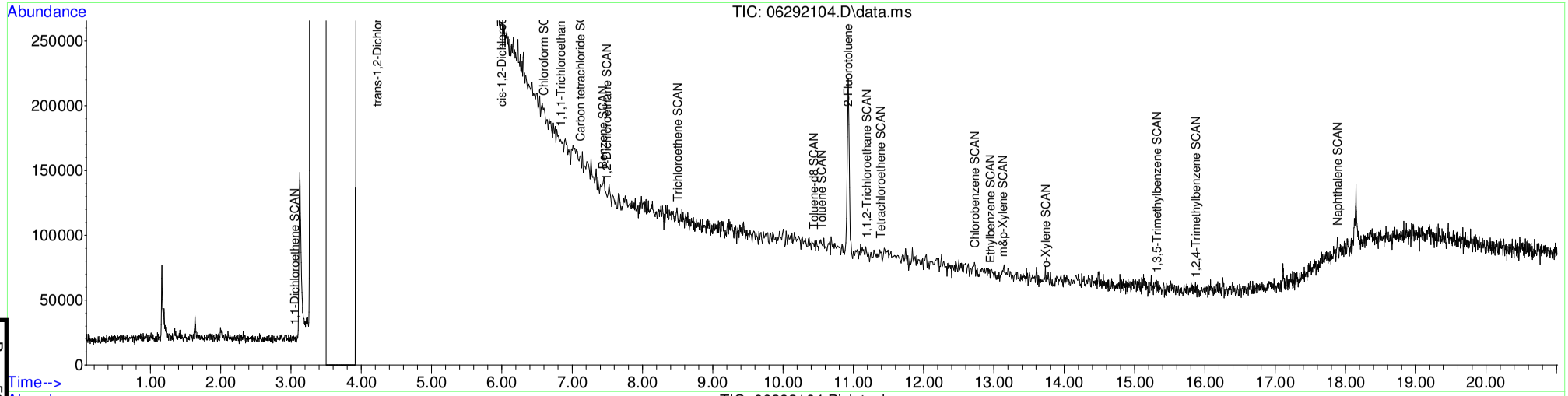
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	191233	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	1682	51.35 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.03%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	388	46.58 ug/L #	98
3] trans-1,2-Dichloroethene	4.221	61	340	47.43 ug/L #	90
4] 1,1-Dichloroethane	4.970	63	464	47.20 ug/L #	12
5] cis-1,2-Dichloroethene	5.999	61	459	48.73 ug/L #	95
6] Chloroform	6.564	83	605	54.57 ug/L #	94
7] 1,1,1-Trichloroethane	6.832	97	526	50.99 ug/L #	95
8] Carbon tetrachloride	7.099	117	454	50.52 ug/L #	89
9] Benzene	7.428	78	3271	105.01 ug/L #	49
10] 1,2-Dichloroethane	7.476	62	460	53.69 ug/L #	1
11] Trichloroethene	8.514	130	408	49.19 ug/L	93
13] Toluene	10.528	91	2423	56.83 ug/L	98
14] 1,1,2-Trichloroethane	11.189	97	462	52.09 ug/L #	98
15] Tetrachloroethene	11.389	166	559	51.25 ug/L #	98
16] Chlorobenzene	12.724	112	2829	76.62 ug/L #	92
17] 1,1,1,2-Tetrachloroethane	12.875	131	500	50.89 ug/L #	91
18] Ethylbenzene	12.931	91	2746	50.15 ug/L #	94
19] m&p-Xylene	13.122	91	4459	103.37 ug/L #	95
20] o-Xylene	13.741	91	2363	50.65 ug/L #	94
21] 1,1,2,2-Tetrachloroethane	14.838	83	986	48.50 ug/L #	98
22] 1,3,5-Trimethylbenzene	15.307	105	2875	52.47 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	3211	56.26 ug/L #	99
24] Naphthalene	17.883	128	8783	82.39 ug/L #	99
25) 2-Fluorotoluene SCAN	10.926	109	108639	4615.50 ug/L	97
26) 1,1-Dichloroethene SCAN	3.052	61	242	48.68 ug/L #	56
27) trans-1,2-Dichloroethe...	4.226	61	198	36.81 ug/L #	16
29) cis-1,2-Dichloroethene...	5.998	61	536	73.71 ug/L #	45
30) Chloroform SCAN	6.587	83	549	71.39 ug/L #	1
31) 1,1,1-Trichloroethane ...	6.842	97	397	55.25 ug/L #	51
32) Carbon tetrachloride SCAN	7.110	117	337	56.84 ug/L #	17
33) Benzene SCAN	7.438	78	6456	357.85 ug/L	95
34) 1,2-Dichloroethane SCAN	7.487	62	393	69.10 ug/L #	36
35) Trichloroethene SCAN	8.502	130	159	34.58 ug/L #	30
36) Toluene-d8 SCAN	10.432	98	2058	100.81 ug/L	81
37) Toluene SCAN	10.548	91	2323	87.92 ug/L #	33
38) 1,1,2-Trichloroethane ...	11.188	97	676	107.40 ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	217	34.10 ug/L #	45
40) Chlorobenzene SCAN	12.723	112	2173	110.32 ug/L #	1
42) Ethylbenzene SCAN	12.945	91	2101	59.65 ug/L	81
43) m&p-Xylene SCAN	13.128	91	2761	52.54 ug/L #	64
44) o-Xylene SCAN	13.740	91	1562	54.04 ug/L #	66
46) 1,3,5-Trimethylbenzene...	15.316	105	2027	63.88 ug/L #	42
47) 1,2,4-Trimethylbenzene...	15.872	105	2227	67.77 ug/L #	78
48) Naphthalene SCAN	17.881	128	4775	79.69 ug/L #	80

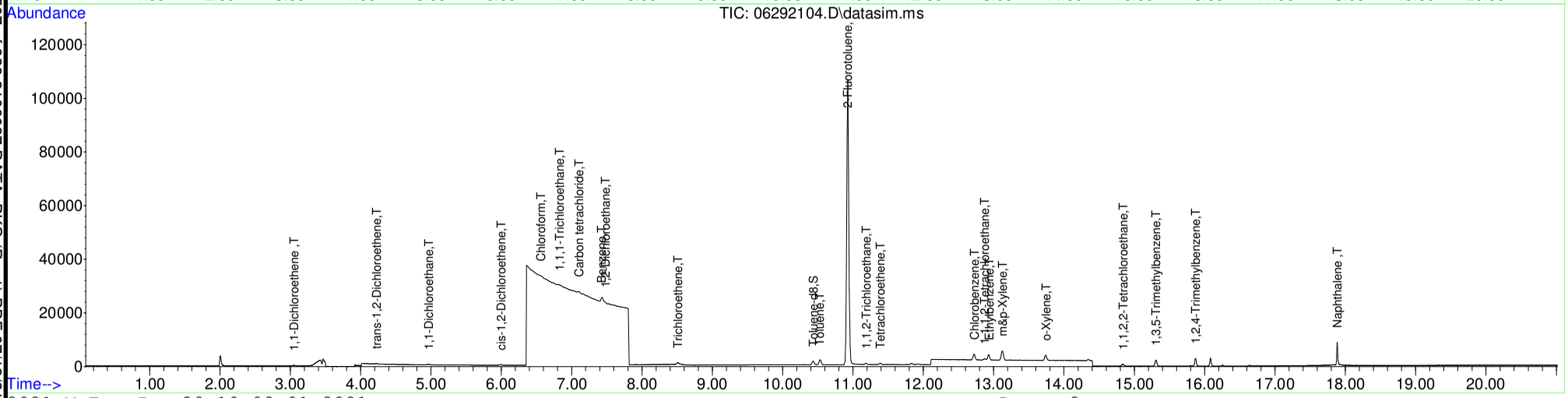
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292104.D
Acq On : 29 Jun 2021 9:46
InstName : AG5975C
Operator : TD
Sample : S21F073-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:07:25 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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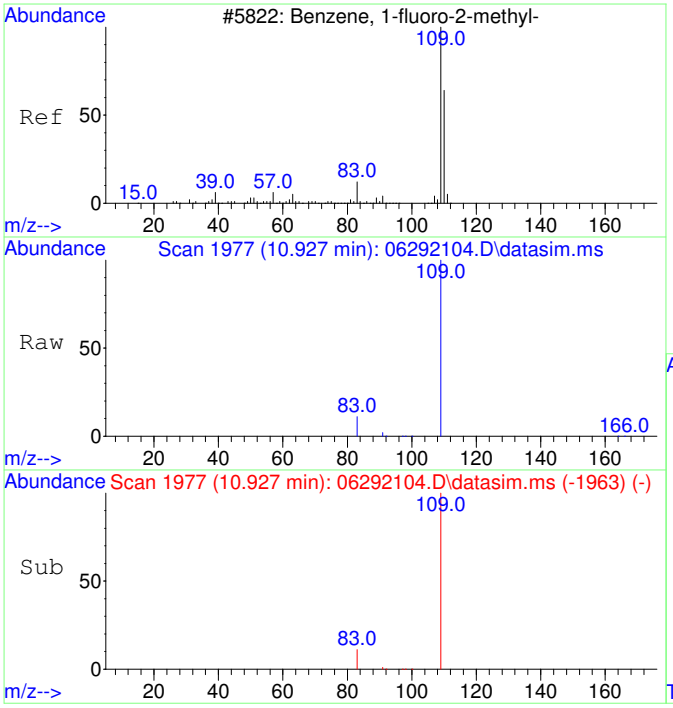
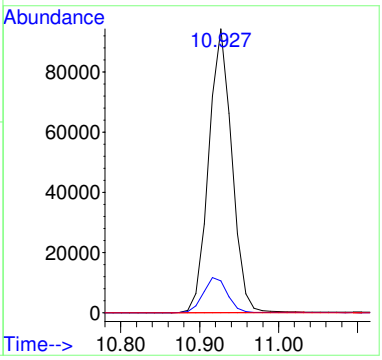
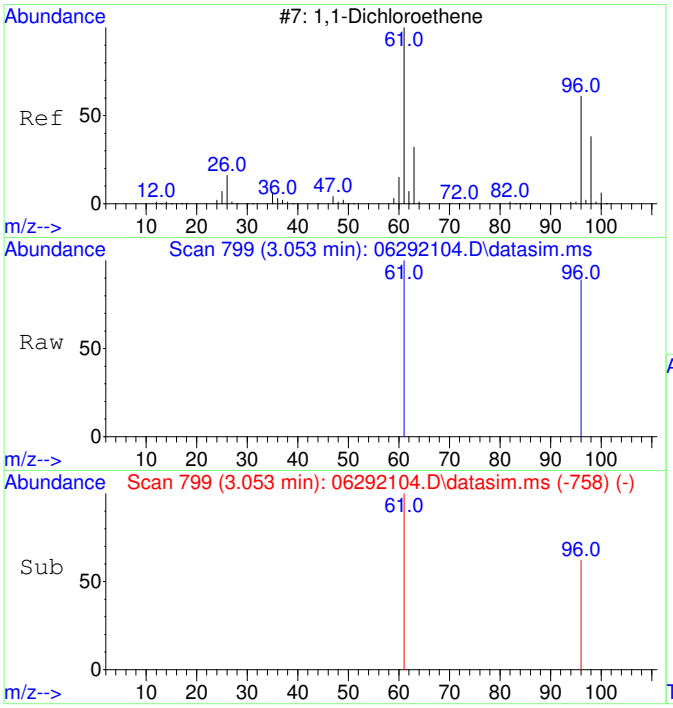


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:109 Resp: 191233

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	43.7
110	0.0	0.0	20.0

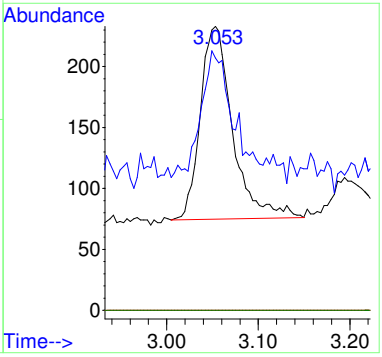


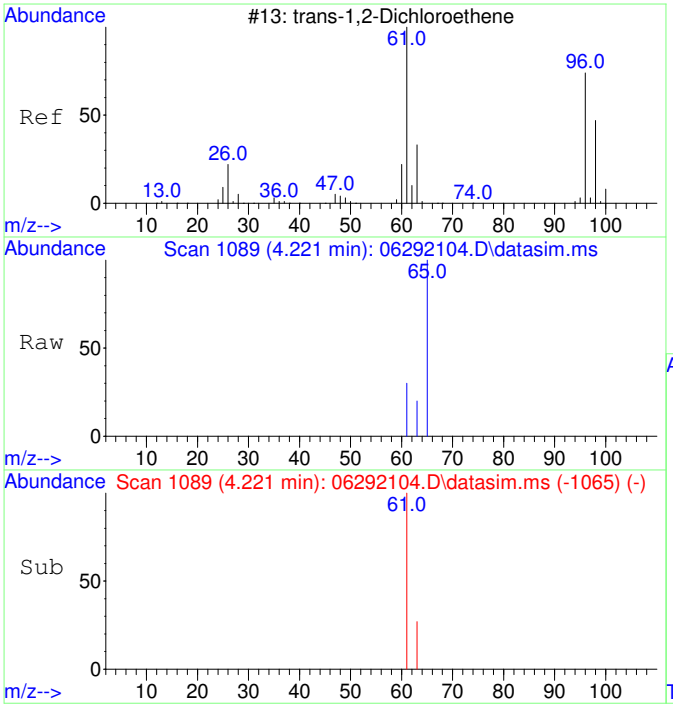


#2
1,1-Dichloroethene
Concen: 46.58 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 388

Ion	Ratio	Lower	Upper
61	100		
96	66.2	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

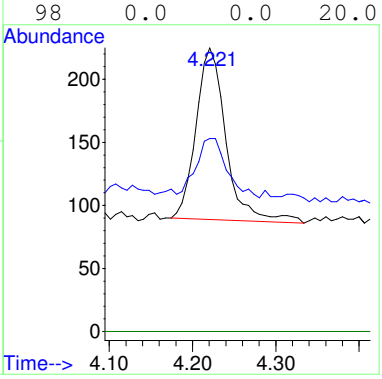


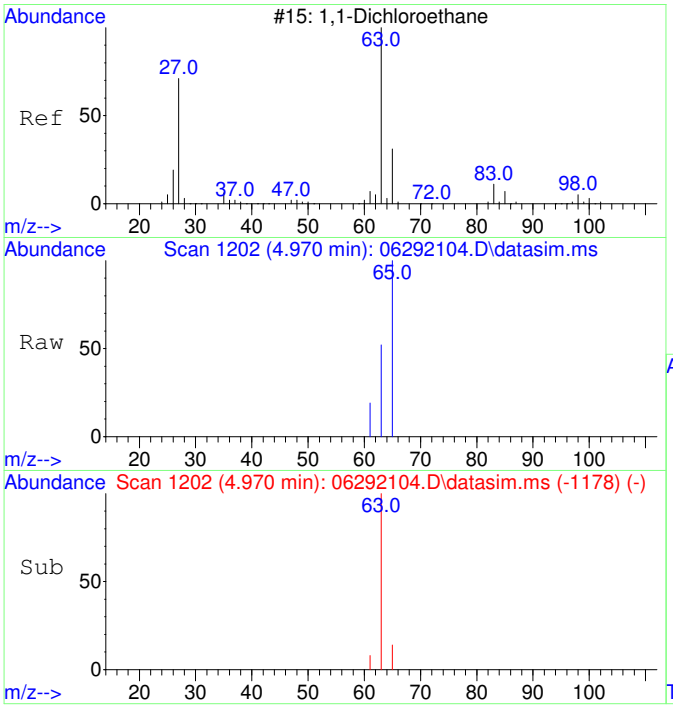


#3
trans-1,2-Dichloroethene
Concen: 47.43 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 340

Ion	Ratio	Lower	Upper
61	100		
63	37.9	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

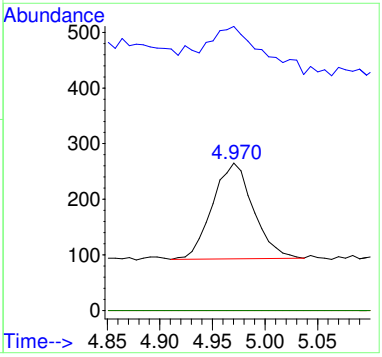


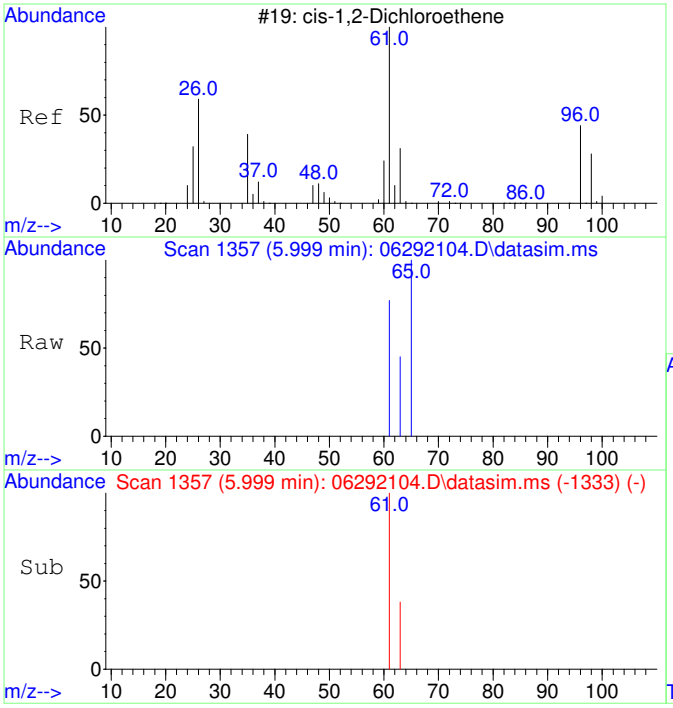


#4
1,1-Dichloroethane
Concen: 47.20 ug/L
RT: 4.970 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 63 Resp: 464

Ion	Ratio	Lower	Upper
63	100		
65	80.0	1.3	61.3#
83	0.0	0.0	20.0
98	0.0	0.0	20.0

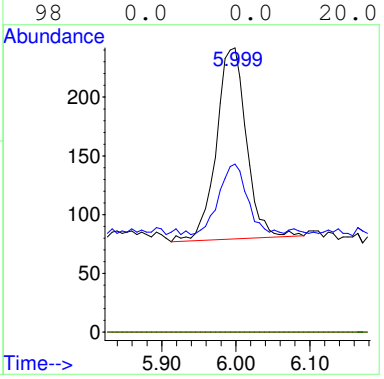


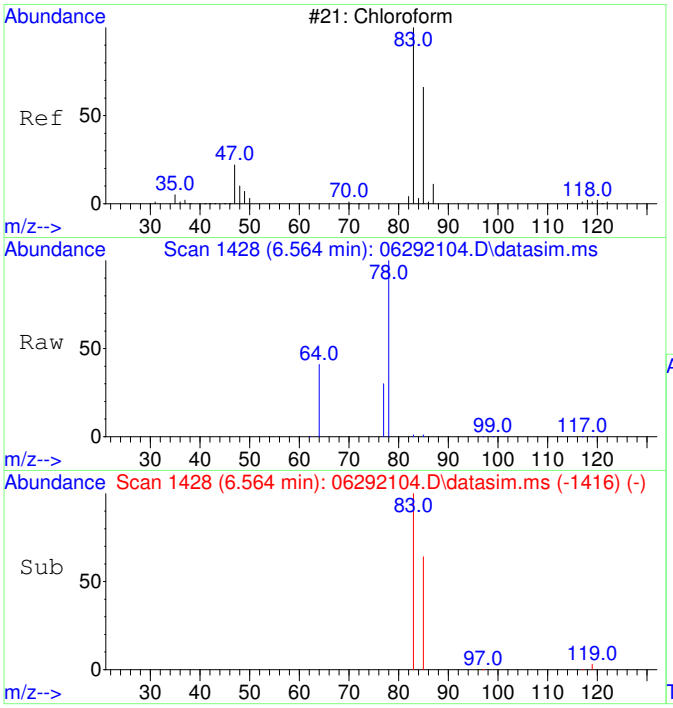


#5
cis-1,2-Dichloroethene
Concen: 48.73 ug/L
RT: 5.999 min Scan# 1357
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 459

Ion	Ratio	Lower	Upper
61	100		
63	35.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

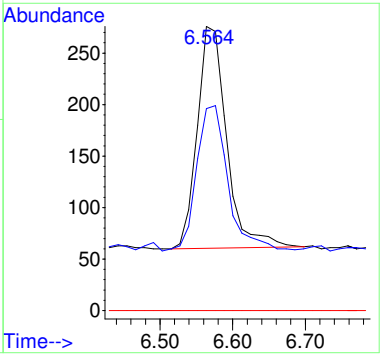


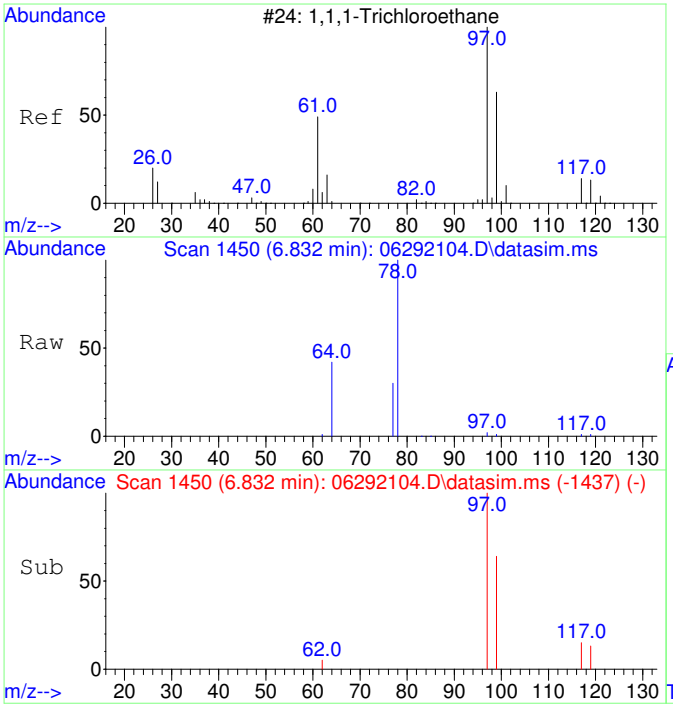


#6
Chloroform
Concen: 54.57 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 605

Ion	Ratio	Lower	Upper
83	100		
85	68.9	34.5	94.5
87	0.0	0.0	20.0

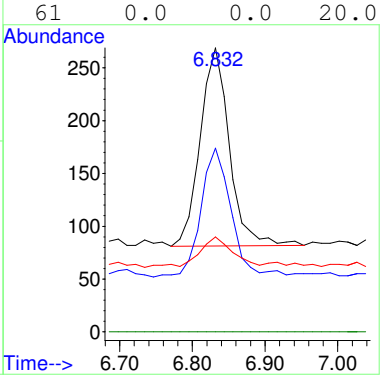


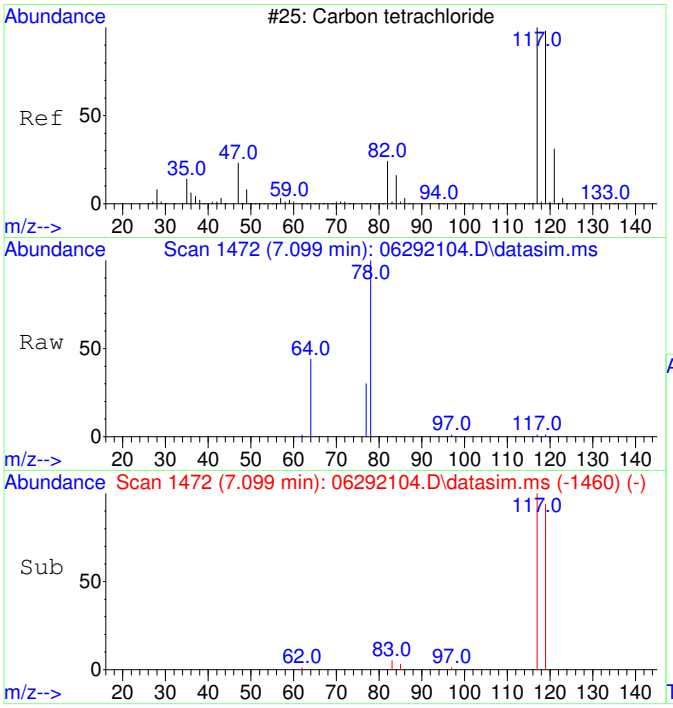


#7
1,1,1-Trichloroethane
Concen: 50.99 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 526

Ion	Ratio	Lower	Upper
97	100		
99	67.5	34.4	94.4
117	17.9	0.0	42.8
61	0.0	0.0	20.0

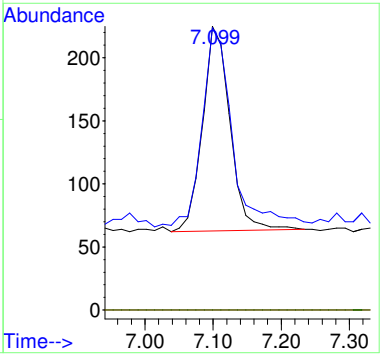


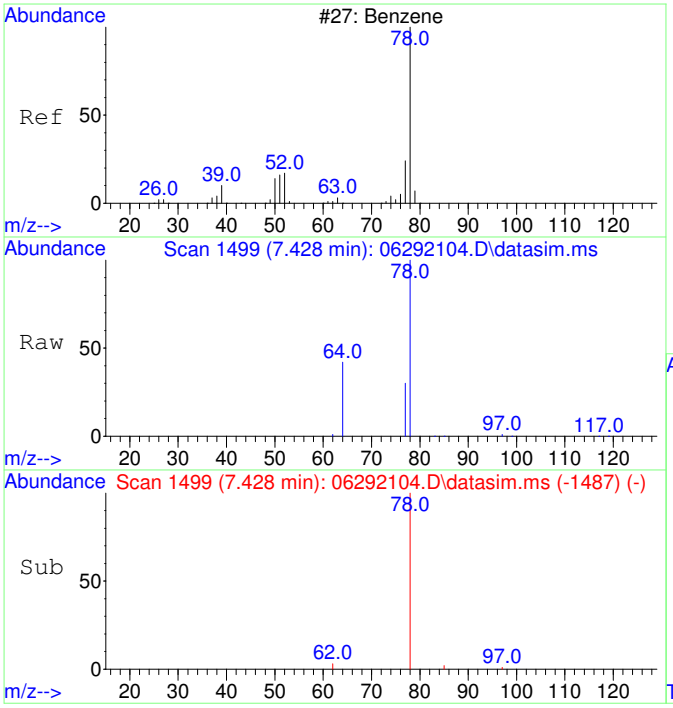


#8
Carbon tetrachloride
Concen: 50.52 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:117 Resp: 454

Ion	Ratio	Lower	Upper
117	100		
119	107.5	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

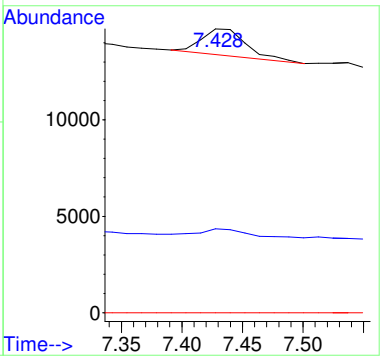


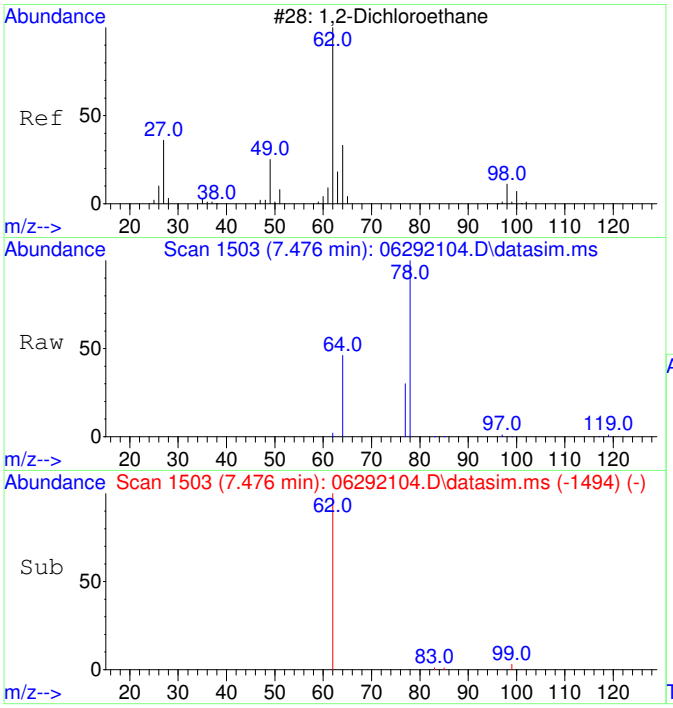


#9
Benzene
Concen: 105.01 ug/L
RT: 7.428 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 78 Resp: 3271

Ion	Ratio	Lower	Upper
78	100		
77	48.7	0.0	53.7
52	0.0	0.0	20.0

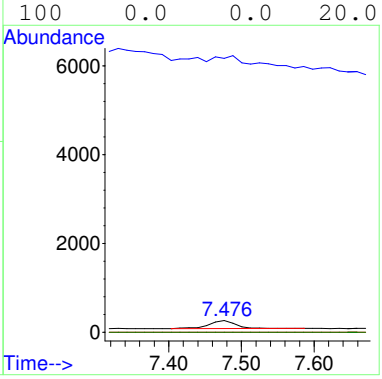


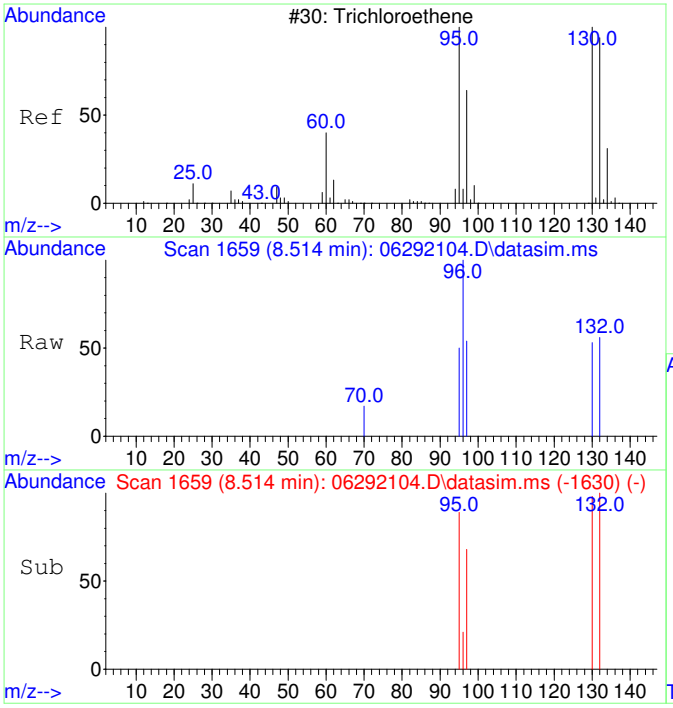


#10
1,2-Dichloroethane
Concen: 53.69 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 62 Resp: 460

Ion	Ratio	Lower	Upper
62	100		
64	92.8	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

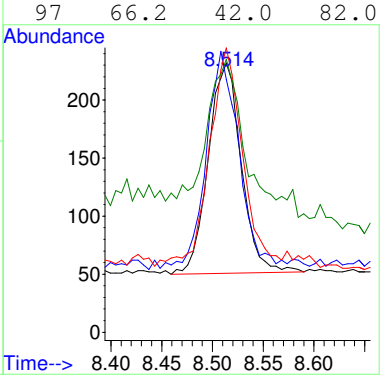


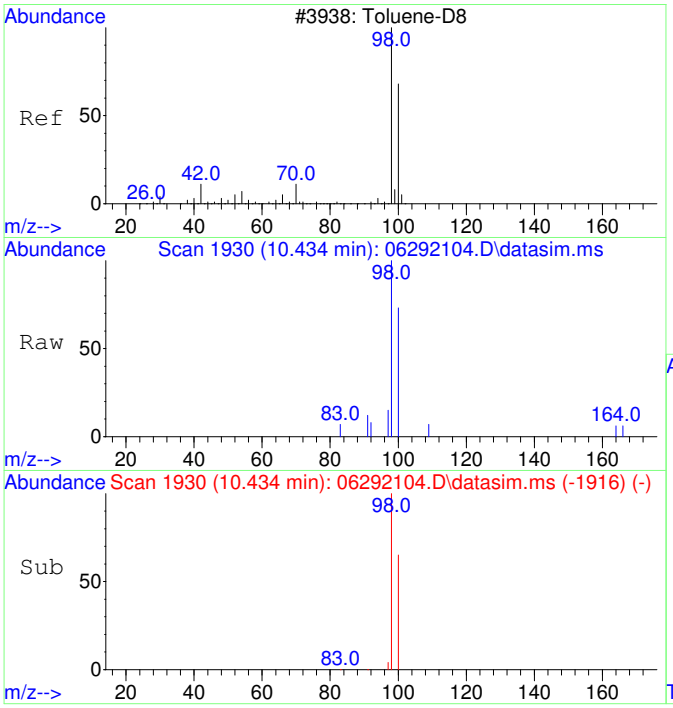


#11
Trichloroethene
Concen: 49.19 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:130 Resp: 408

Ion	Ratio	Lower	Upper
130	100		
95	102.5	65.8	125.8
132	103.9	75.8	115.8
97	66.2	42.0	82.0

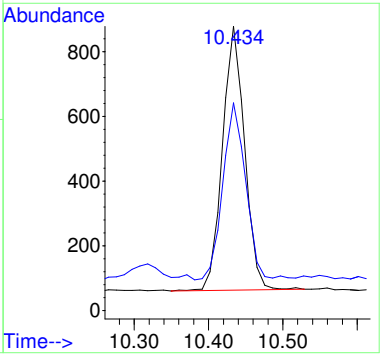


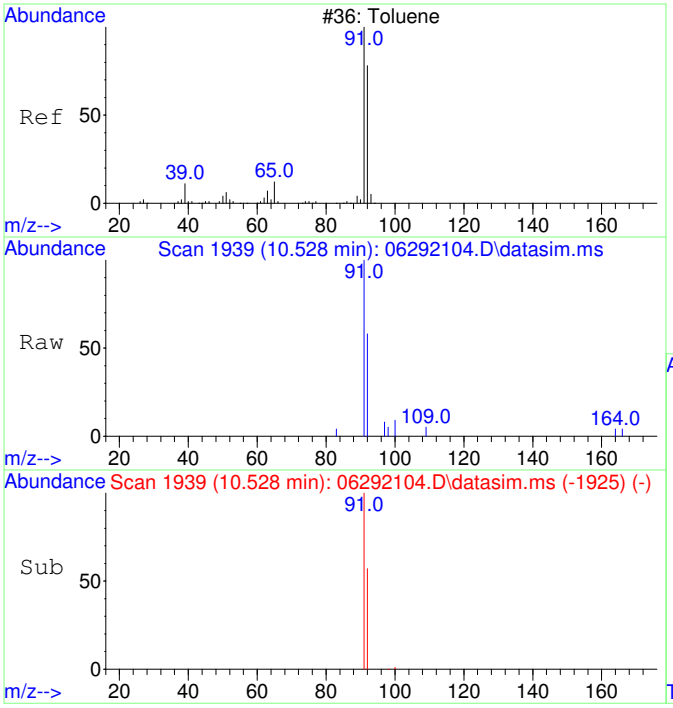


#12
Toluene-d8
Concen: 51.35 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 98 Resp: 1682

Ion	Ratio	Lower	Upper
98	100		
100	67.6	37.3	97.3

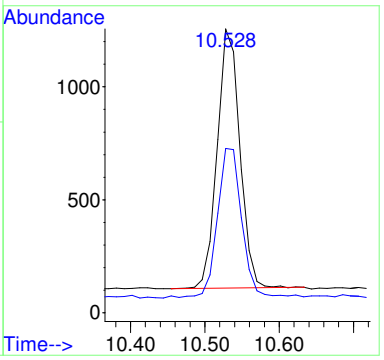


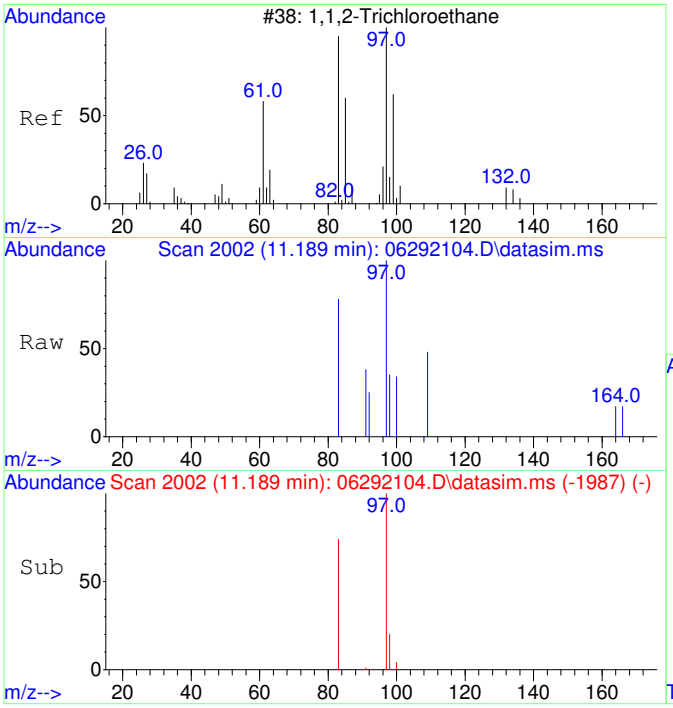


#13
Toluene
Concen: 56.83 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2423

Ion	Ratio	Lower	Upper
91	100		
92	61.9	30.2	90.2

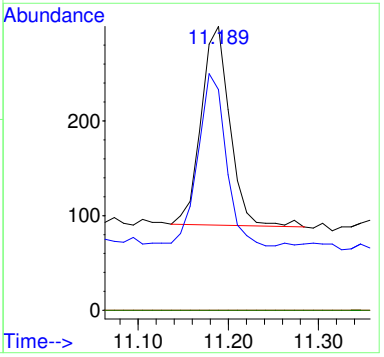


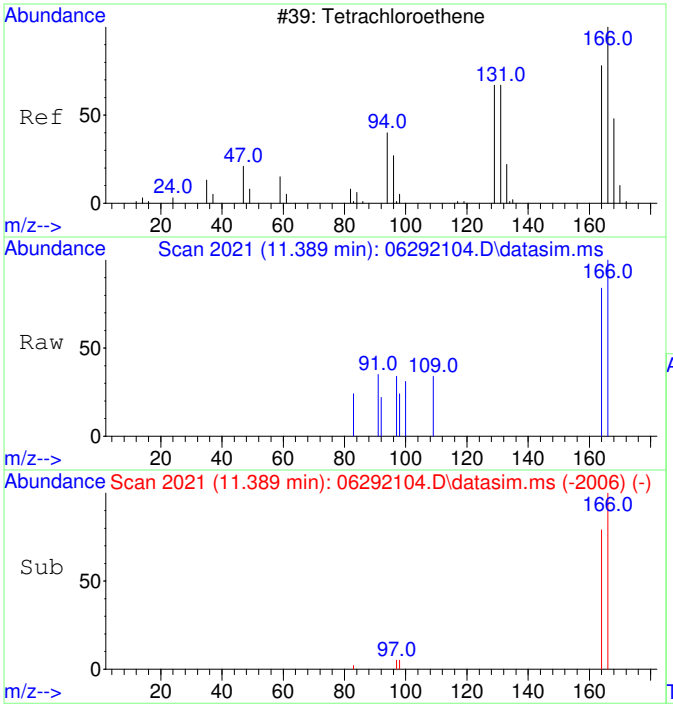


#14
1,1,2-Trichloroethane
Concen: 52.09 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 462

Ion	Ratio	Lower	Upper
97	100		
83	85.1	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

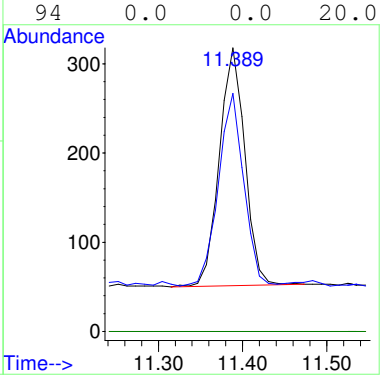


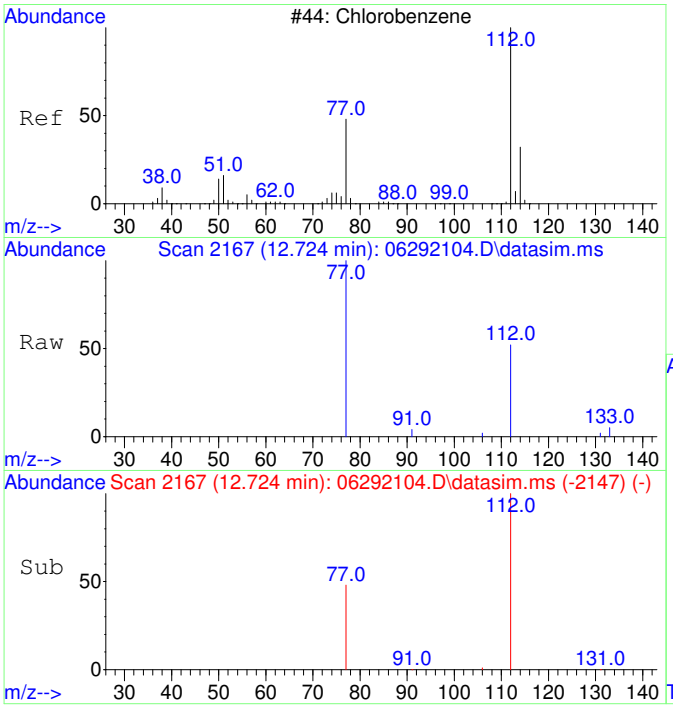


#15
Tetrachloroethene
Concen: 51.25 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:166 Resp: 559

Ion	Ratio	Lower	Upper
166	100		
164	79.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

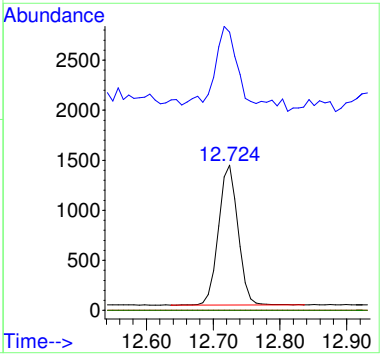


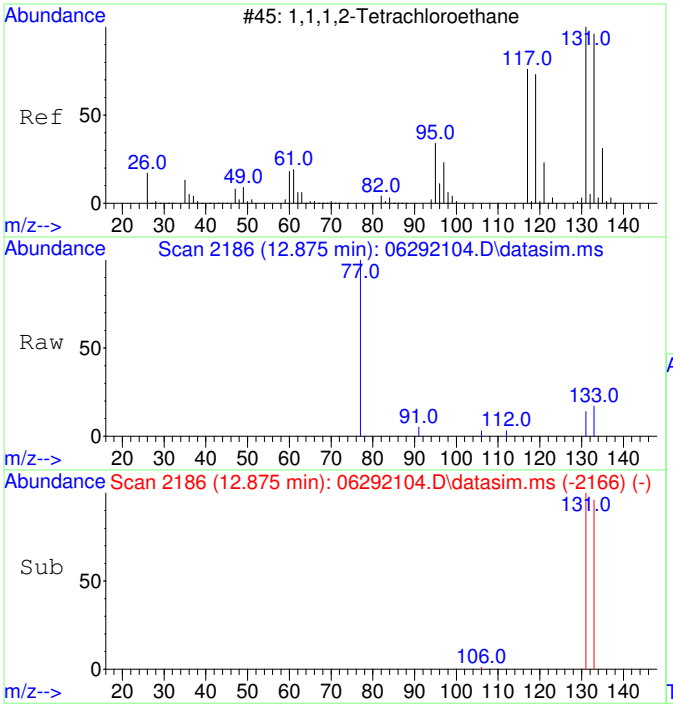


#16
Chlorobenzene
Concen: 76.62 ug/L
RT: 12.724 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:112 Resp: 2829

Ion	Ratio	Lower	Upper
112	100		
77	62.9	27.0	87.0
114	0.0	0.0	20.0
51	0.0	0.0	20.0

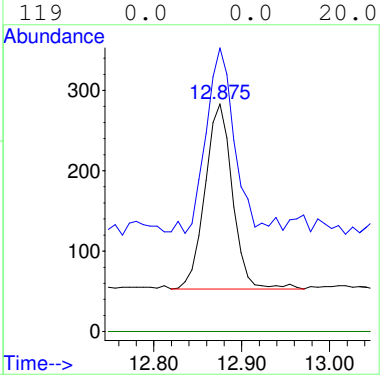


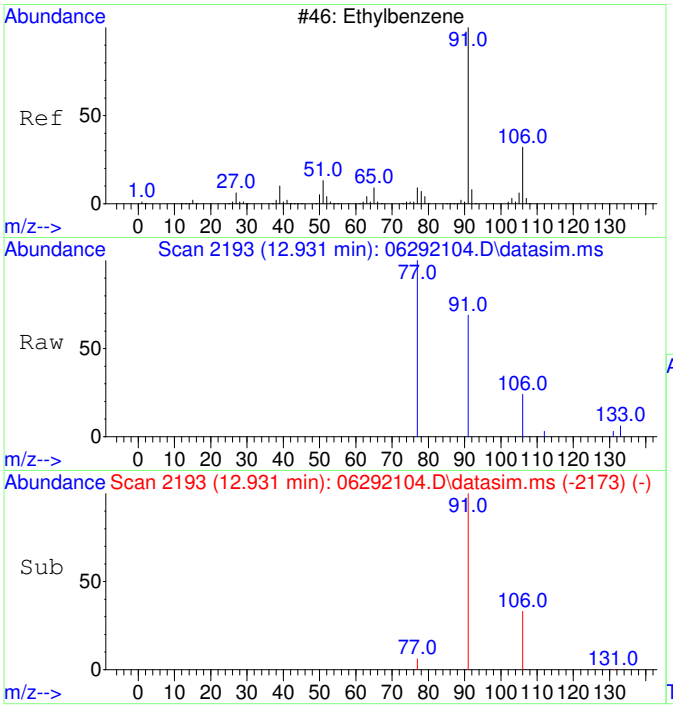


#17
1,1,1,2-Tetrachloroethane
Concen: 50.89 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:131 Resp: 500

Ion	Ratio	Lower	Upper
131	100		
133	103.8	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

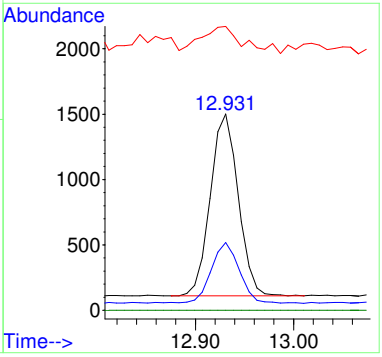


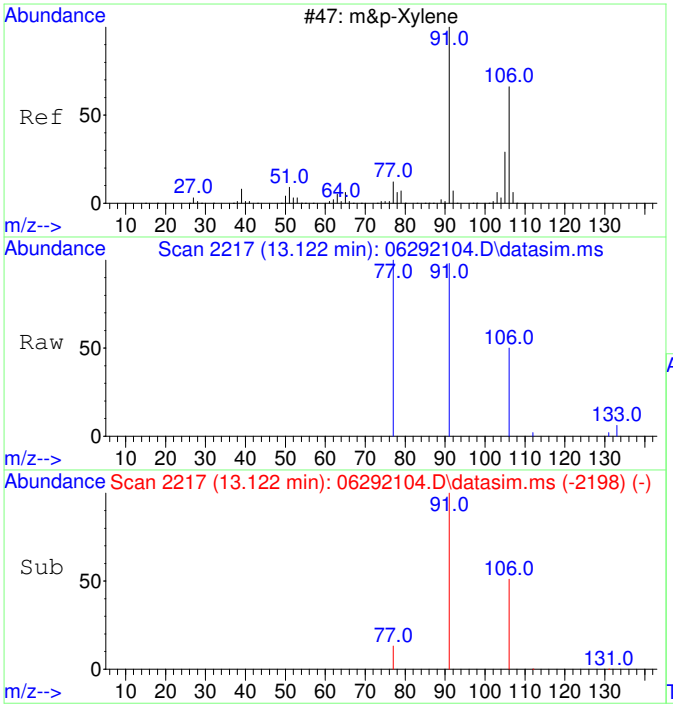


#18
Ethylbenzene
Concen: 50.15 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2746

Ion	Ratio	Lower	Upper
91	100		
106	33.5	2.8	62.8
77	16.6	0.0	38.2
105	0.0	0.0	20.0

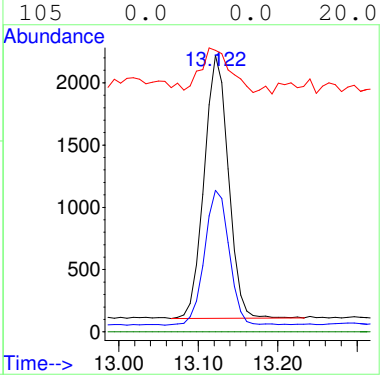


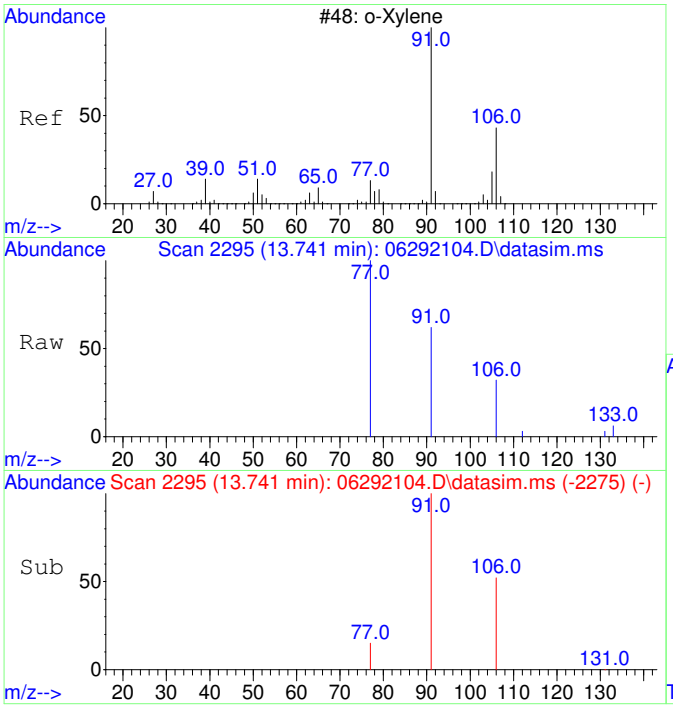


#19
m&p-Xylene
Concen: 103.37 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 4459

Ion	Ratio	Lower	Upper
91	100		
106	51.9	21.4	81.4
77	20.5	0.0	42.7
105	0.0	0.0	20.0

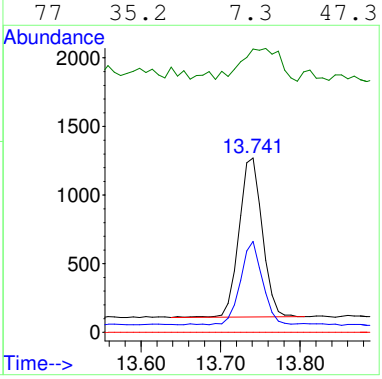


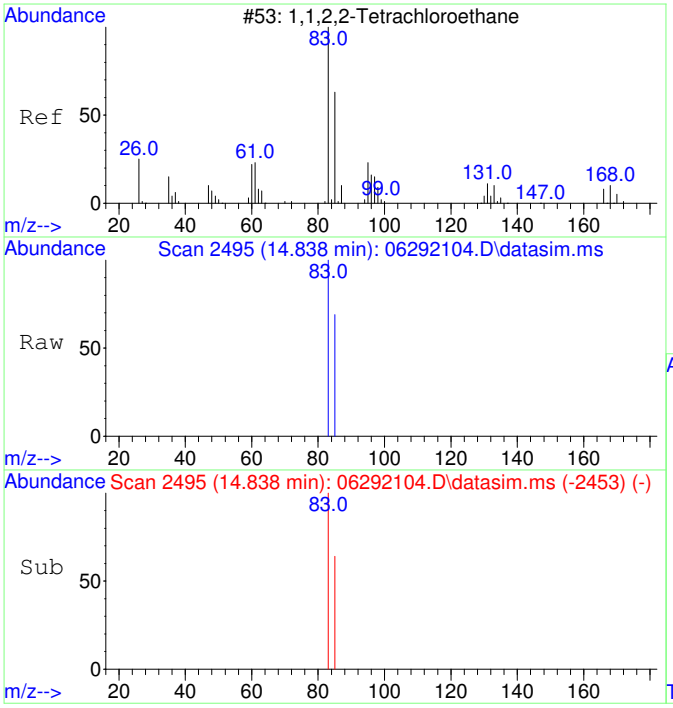


#20
o-Xylene
Concen: 50.65 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2363

Ion	Ratio	Lower	Upper
91	100		
106	48.9	18.7	78.7
105	0.0	0.0	30.0
77	35.2	7.3	47.3

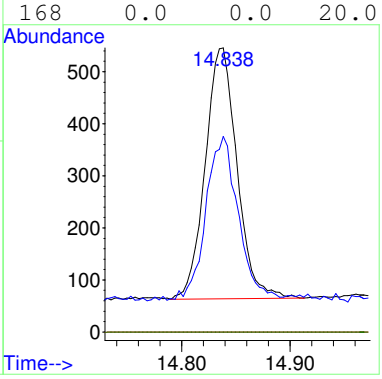


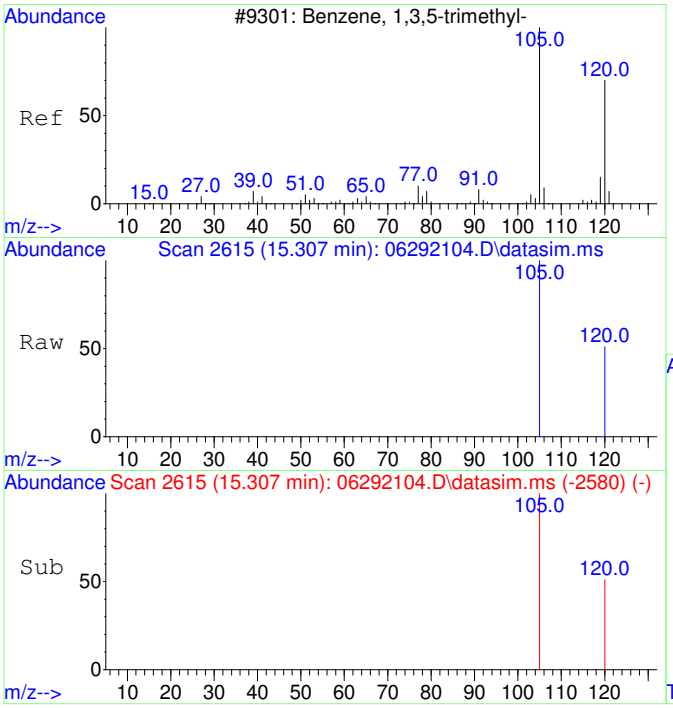


#21
1,1,2,2-Tetrachloroethane
Concen: 48.50 ug/L
RT: 14.838 min Scan# 2495
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 986

Ion	Ratio	Lower	Upper
83	100		
85	66.4	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

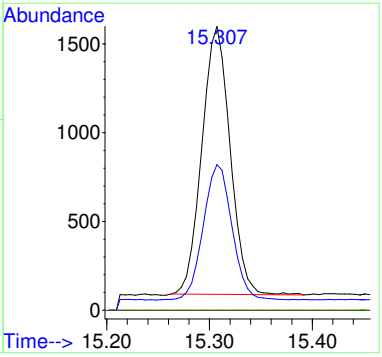


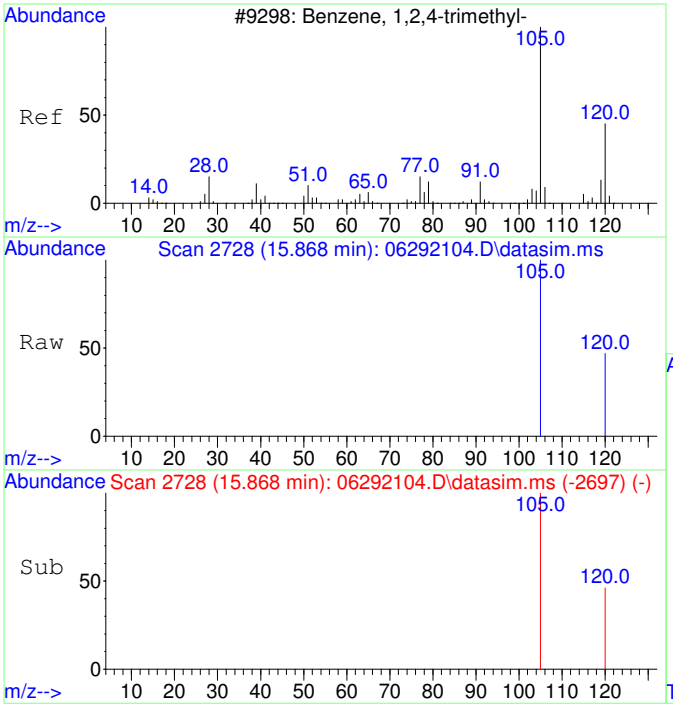


#22
1,3,5-Trimethylbenzene
Concen: 52.47 ug/L
RT: 15.307 min Scan# 2615
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2875

Ion	Ratio	Lower	Upper
105	100		
120	50.5	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

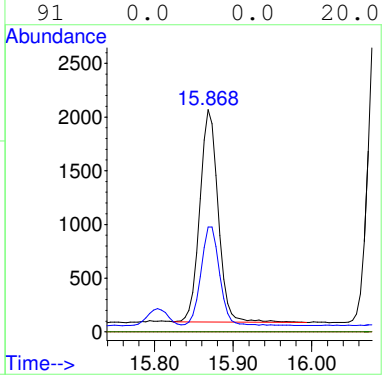


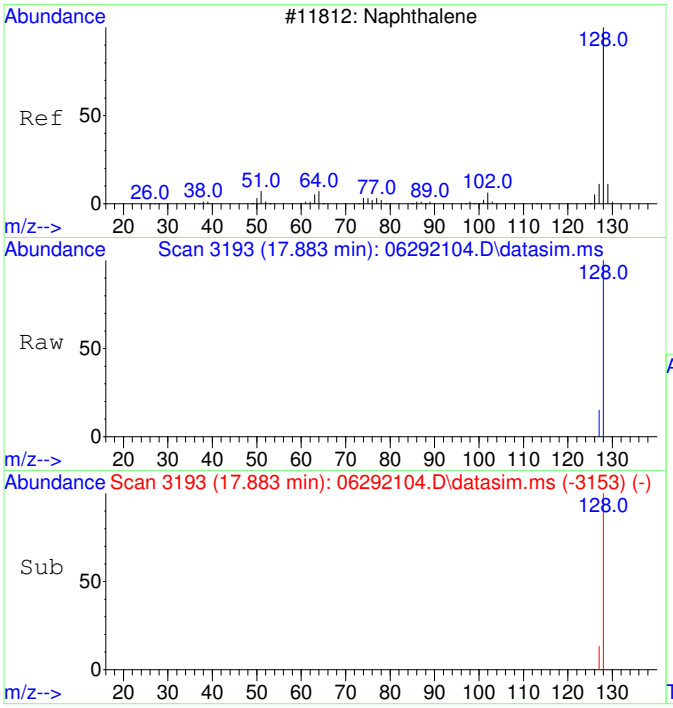


#23
1,2,4-Trimethylbenzene
Concen: 56.26 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 3211

Ion	Ratio	Lower	Upper
105	100		
120	46.6	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

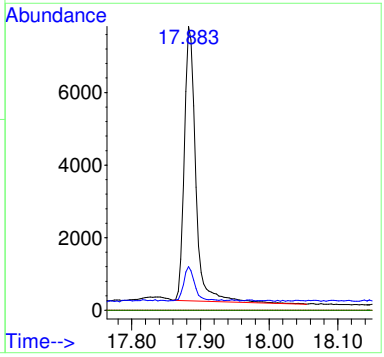


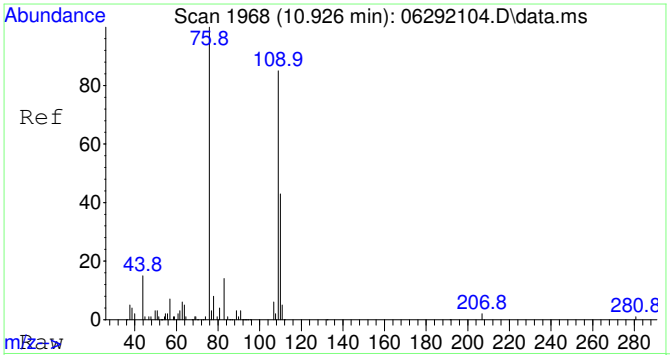


#24
Naphthalene
Concen: 82.39 ug/L
RT: 17.883 min Scan# 3193
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:128 Resp: 8783

Ion	Ratio	Lower	Upper
128	100		
127	12.0	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

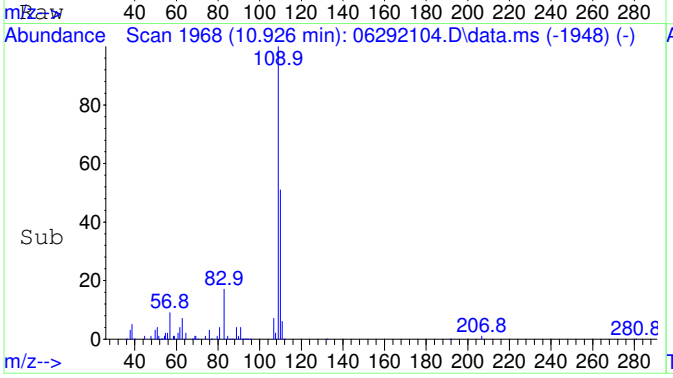


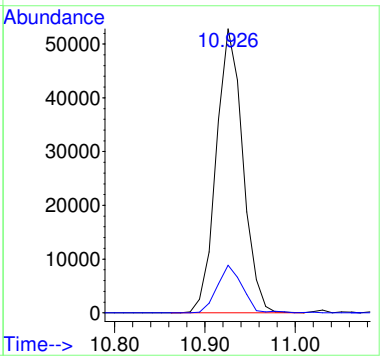


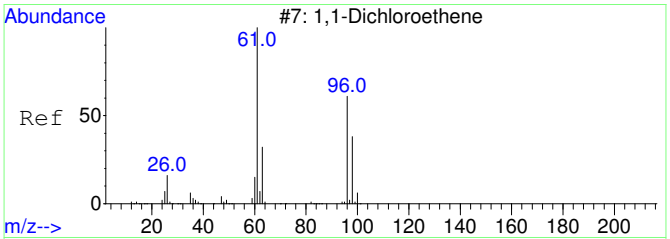
#25
2-Fluorotoluene SCAN
Concen: 4615.50 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:109 Resp: 108639

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	44.5



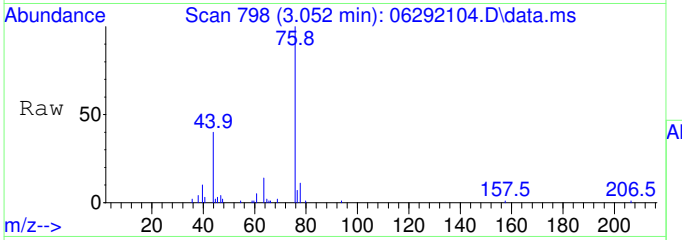


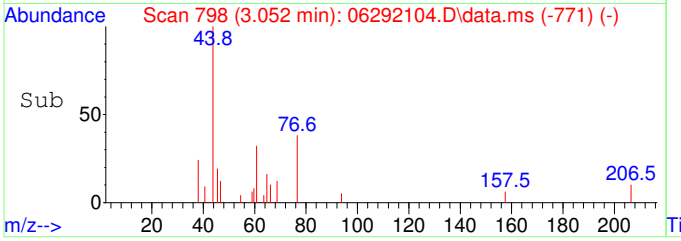


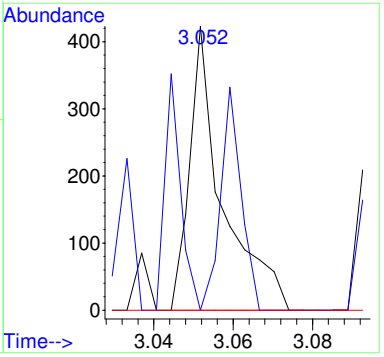
#26
1,1-Dichloroethene SCAN
Concen: 48.68 ug/L
RT: 3.052 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

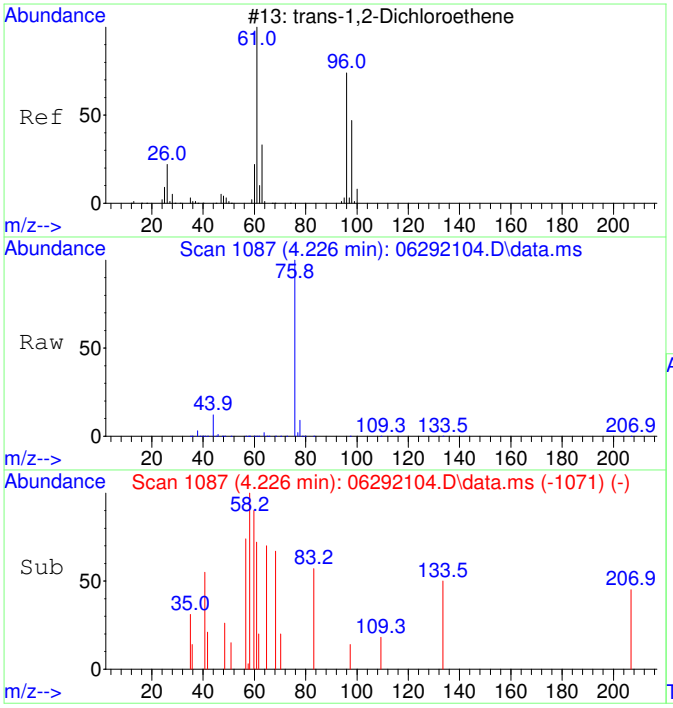
Tgt Ion: 61 Resp: 242

Ion	Ratio	Lower	Upper
61	100		
96	40.5	33.0	93.0
98	0.0	12.5	72.5#





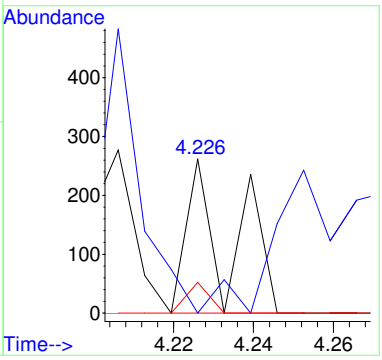


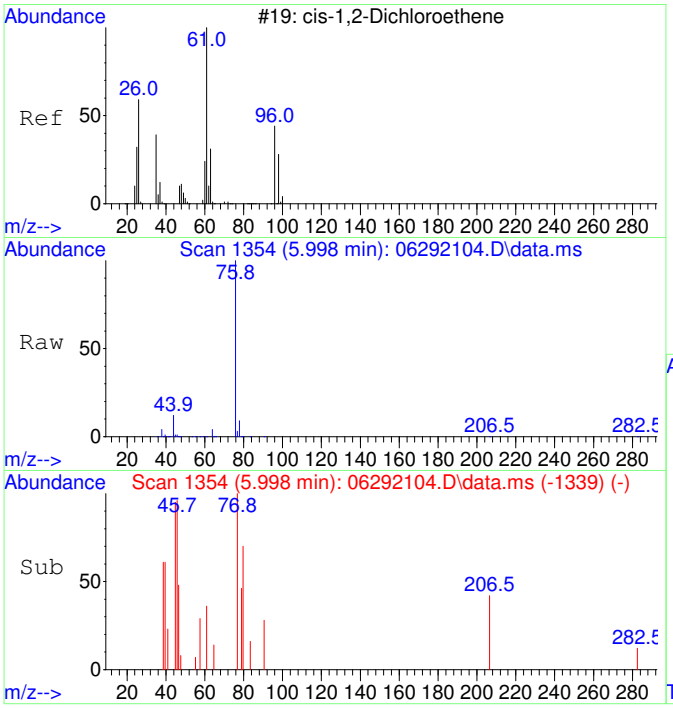


#27
trans-1,2-Dichloroethene SCAN
Concen: 36.81 ug/L
RT: 4.226 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 198

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	109.3#
98	0.0	24.0	84.0#

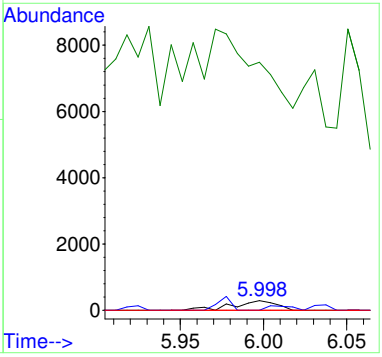


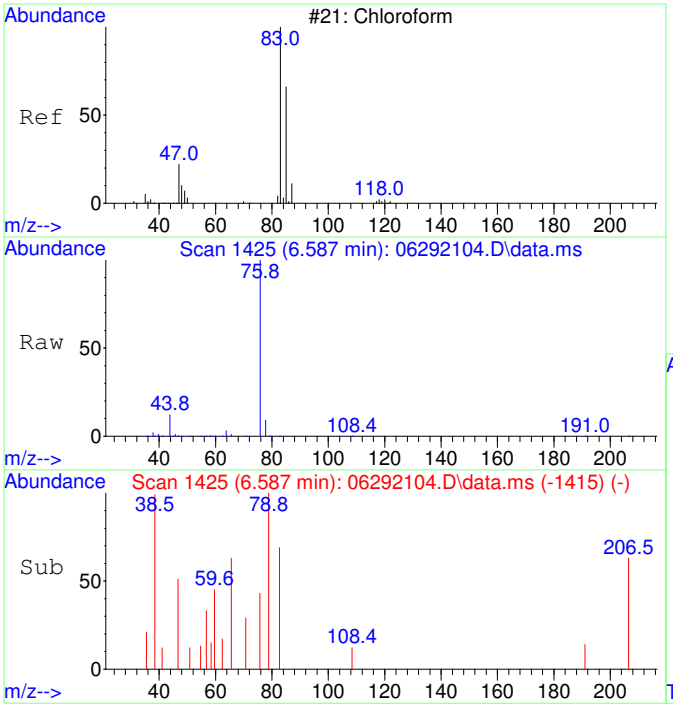


#29
cis-1,2-Dichloroethene SCAN
Concen: 73.71 ug/L
RT: 5.998 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 536

Ion	Ratio	Lower	Upper
61	100		
96	26.9	36.9	96.9#
98	0.0	12.1	72.1#
64	0.0	0.0	32.6

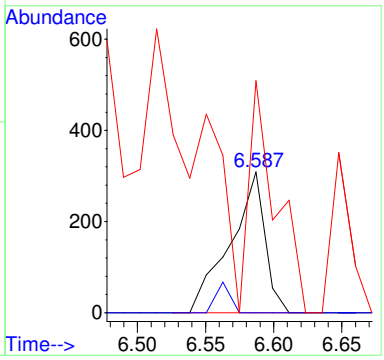


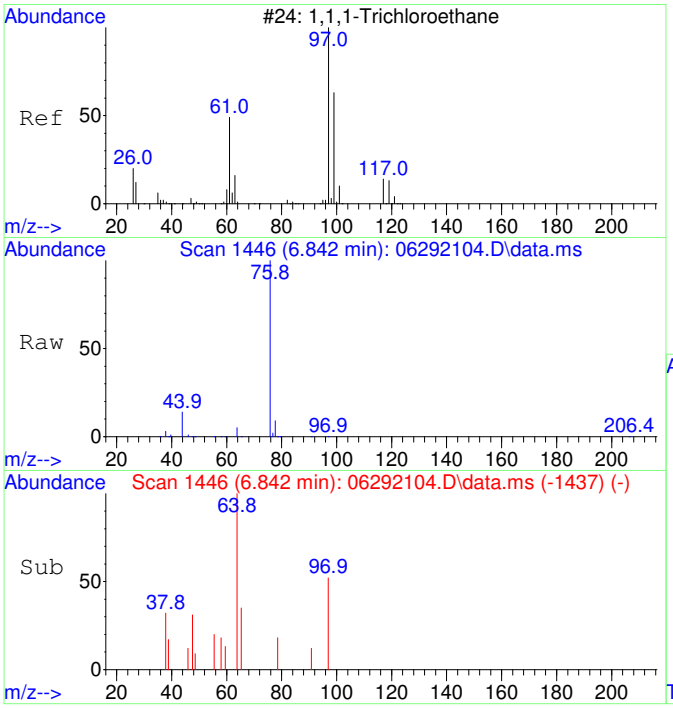


#30
Chloroform SCAN
Concen: 71.39 ug/L
RT: 6.587 min Scan# 1425
Delta R.T. 0.024 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 549

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	127.5	7.5	67.5#

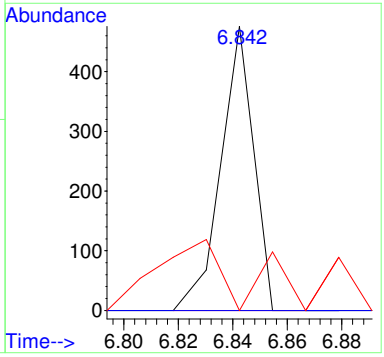


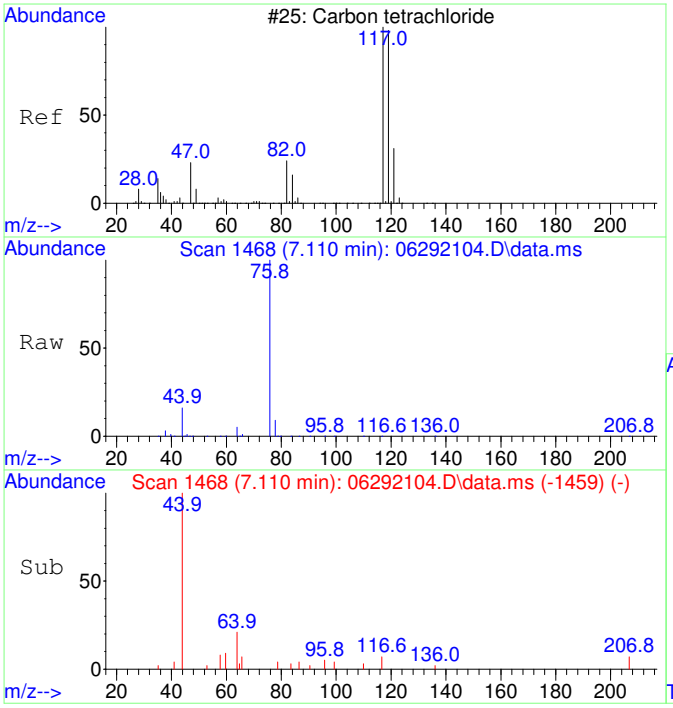


#31
1,1,1-Trichloroethane SCAN
Concen: 55.25 ug/L
RT: 6.842 min Scan# 1446
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 397

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	48.1	11.4	71.4

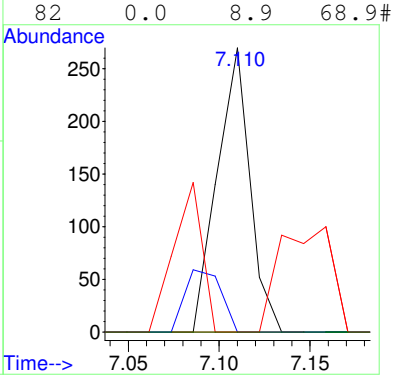


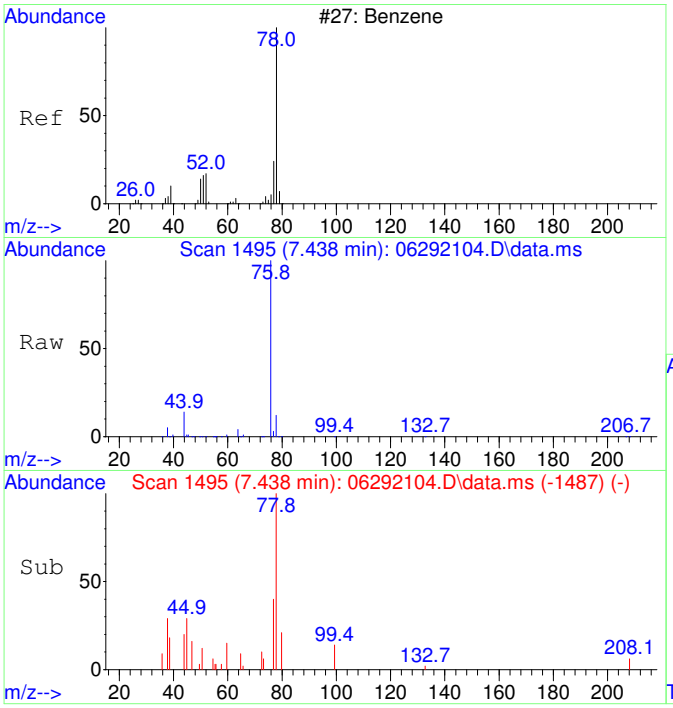


#32
Carbon tetrachloride SCAN
Concen: 56.84 ug/L
RT: 7.110 min Scan# 1468
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:117 Resp: 337

Ion	Ratio	Lower	Upper
117	100		
119	0.0	68.0	128.0#
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

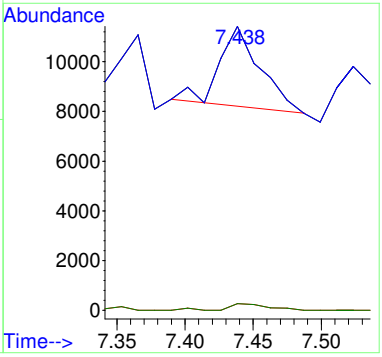


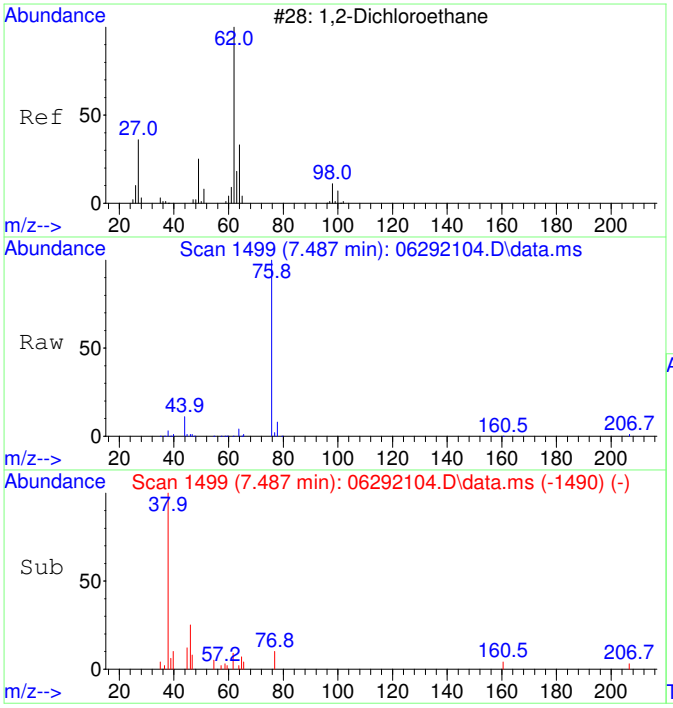


#33
Benzene SCAN
Concen: 357.85 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 78 Resp: 6456

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.7	0.0	46.7
51	8.7	0.0	46.7

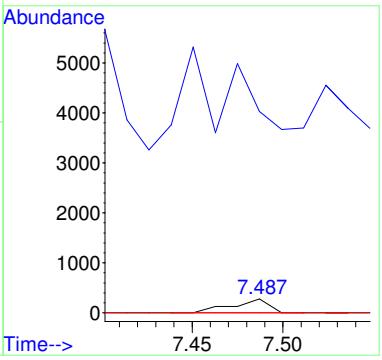


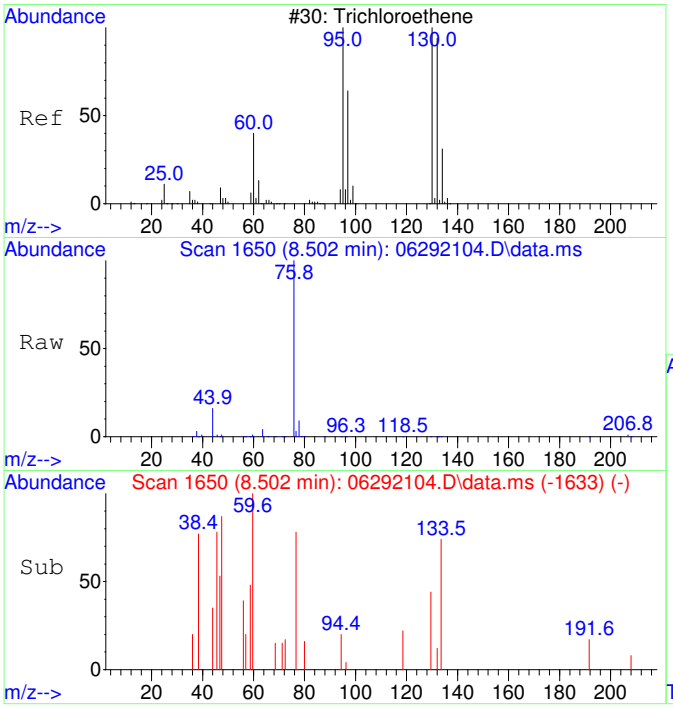


#34
1,2-Dichloroethane SCAN
Concen: 69.10 ug/L
RT: 7.487 min Scan# 1499
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 62 Resp: 393

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

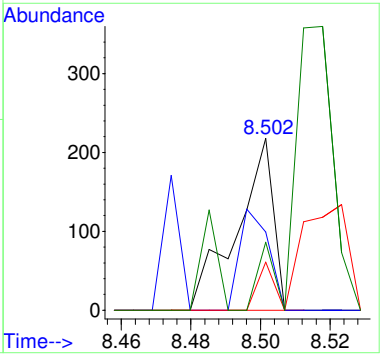


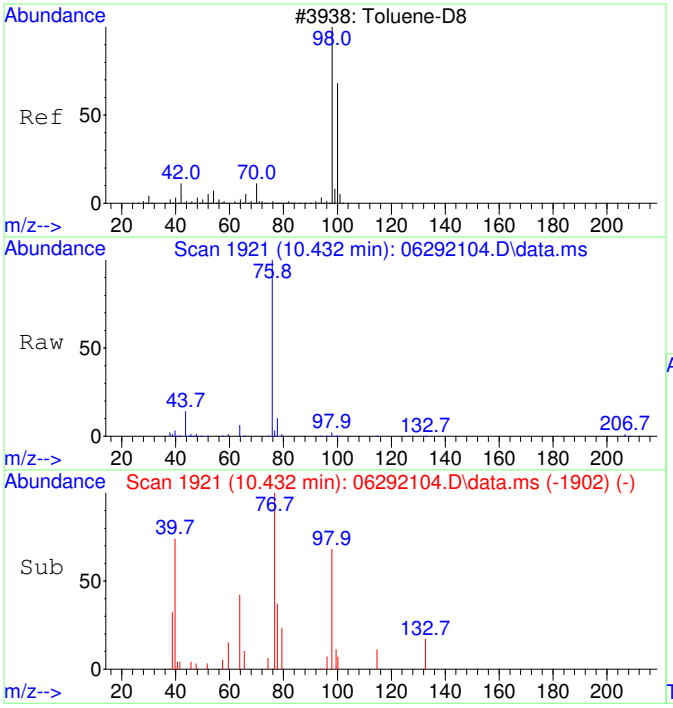


#35
Trichloroethene SCAN
Concen: 34.58 ug/L
RT: 8.502 min Scan# 1650
Delta R.T. -0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:130 Resp: 159

Ion	Ratio	Lower	Upper
130	100		
95	46.5	60.0	120.0#
132	0.0	54.3	114.3#
97	0.0	24.6	84.6#

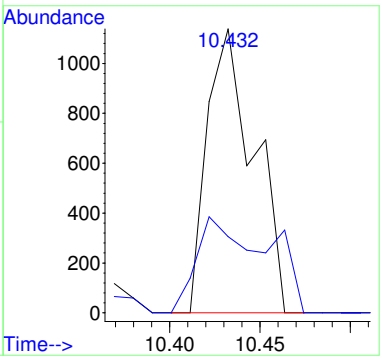


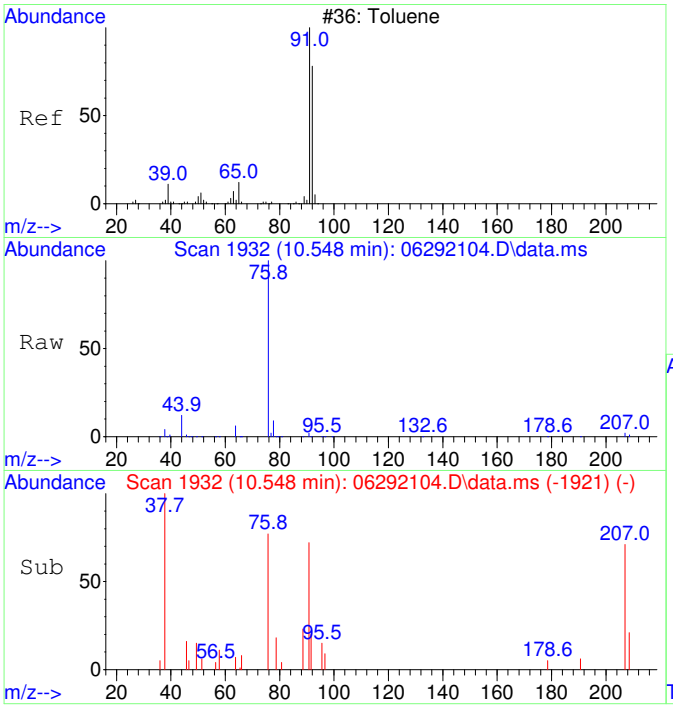


#36
Toluene-d8 SCAN
Concen: 100.81 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 98 Resp: 2058

Ion	Ratio	Lower	Upper
98	100		
100	50.6	36.1	96.1

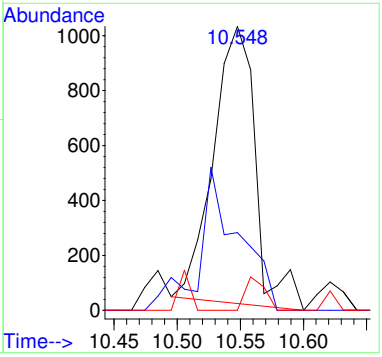


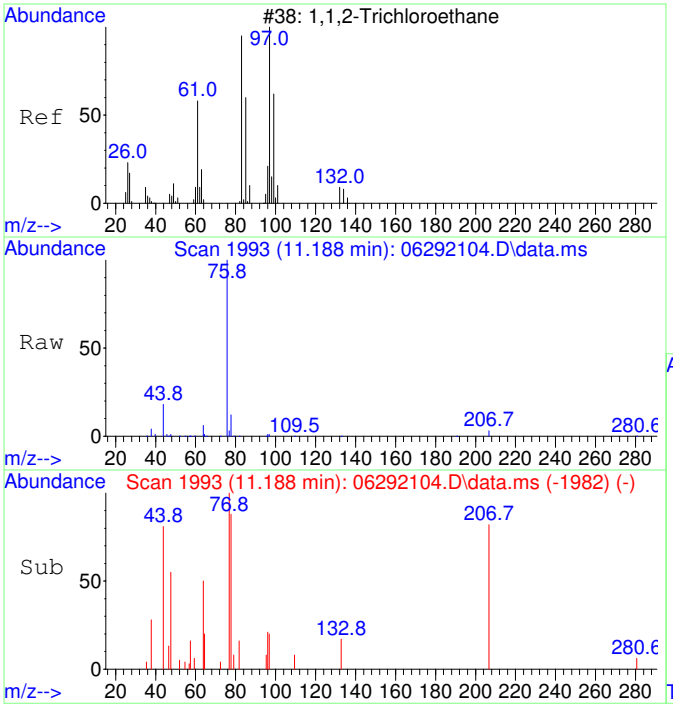


#37
Toluene SCAN
Concen: 87.92 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2323

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.5	86.5#
65	5.6	0.0	40.6

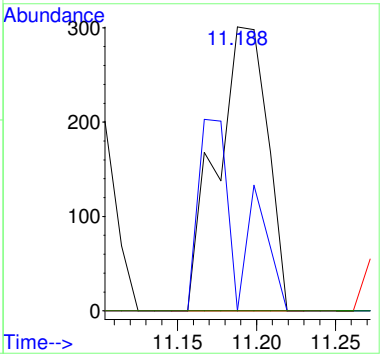


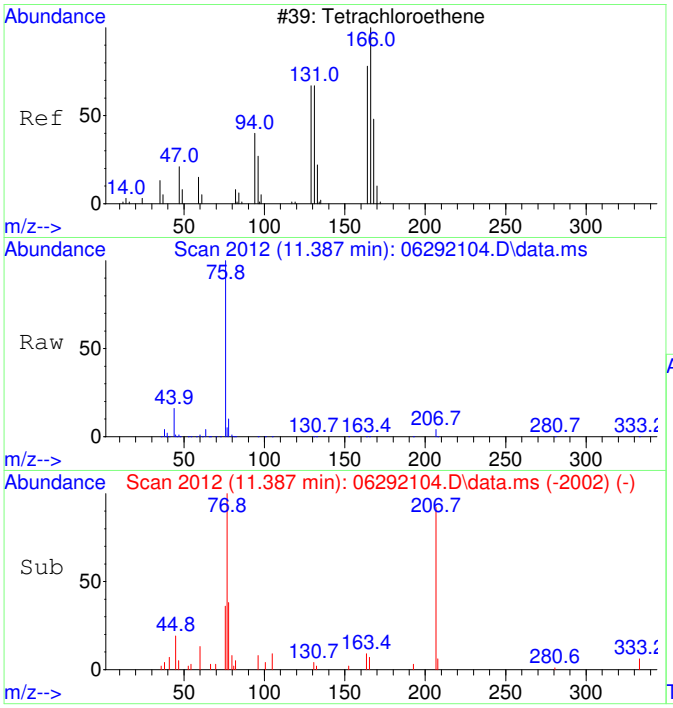


#38
1,1,2-Trichloroethane SCAN
Concen: 107.40 ug/L
RT: 11.188 min Scan# 1993
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 676

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

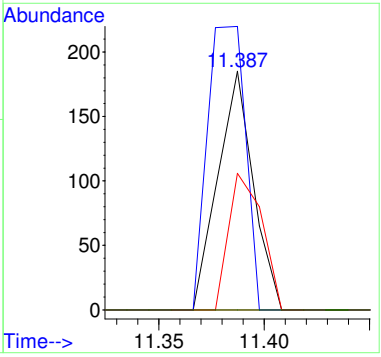


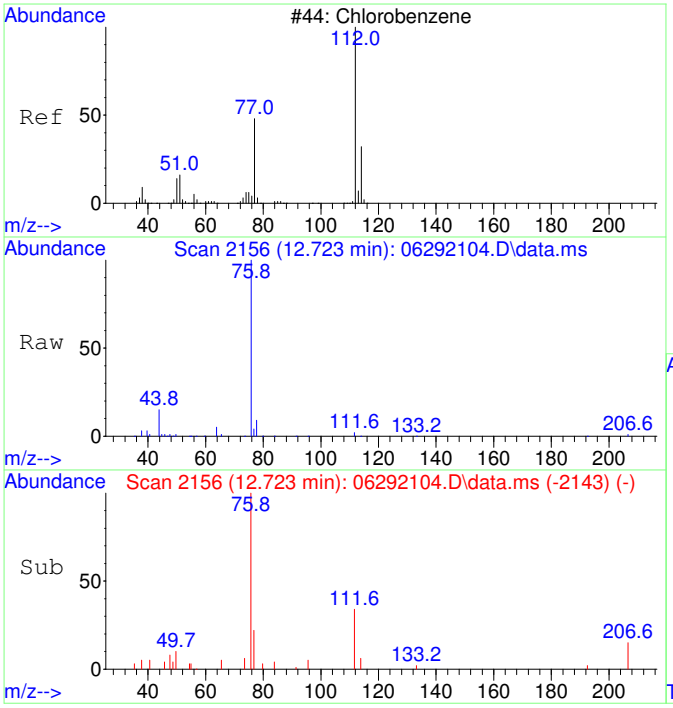


#39
Tetrachloroethene SCAN
Concen: 34.10 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:166 Resp: 217

Ion	Ratio	Lower	Upper
166	100		
164	127.2	53.9	113.9#
131	53.9	45.6	105.6
129	0.0	51.3	111.3#

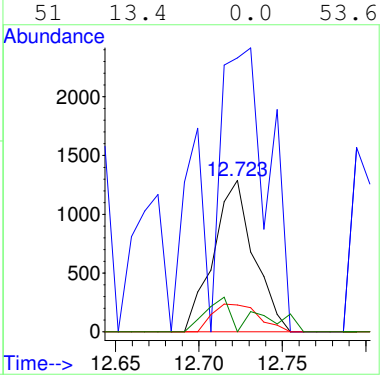


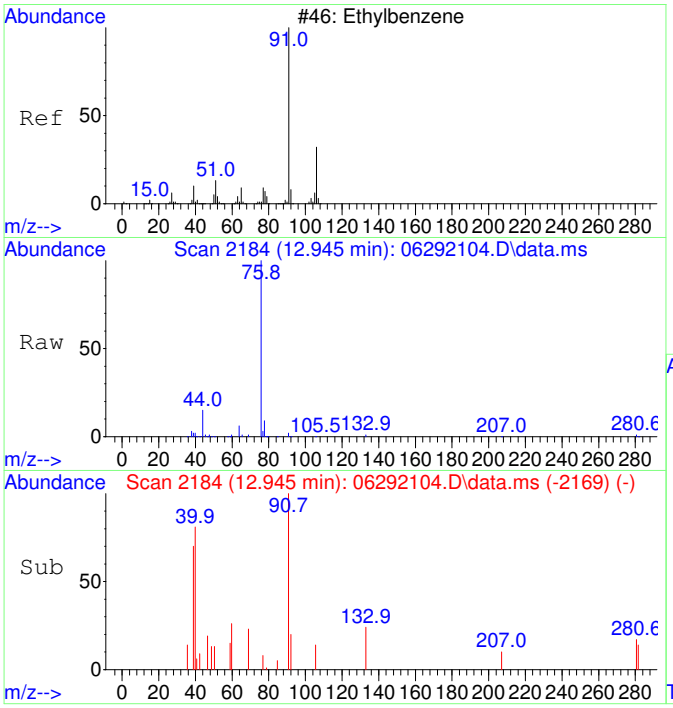


#40
Chlorobenzene SCAN
Concen: 110.32 ug/L
RT: 12.723 min Scan# 2156
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:112 Resp: 2173

Ion	Ratio	Lower	Upper
112	100		
77	214.5	48.5	108.5#
114	20.9	4.9	64.9
51	13.4	0.0	53.6

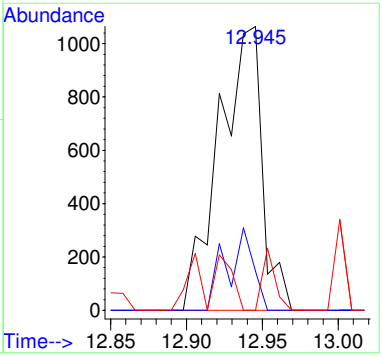


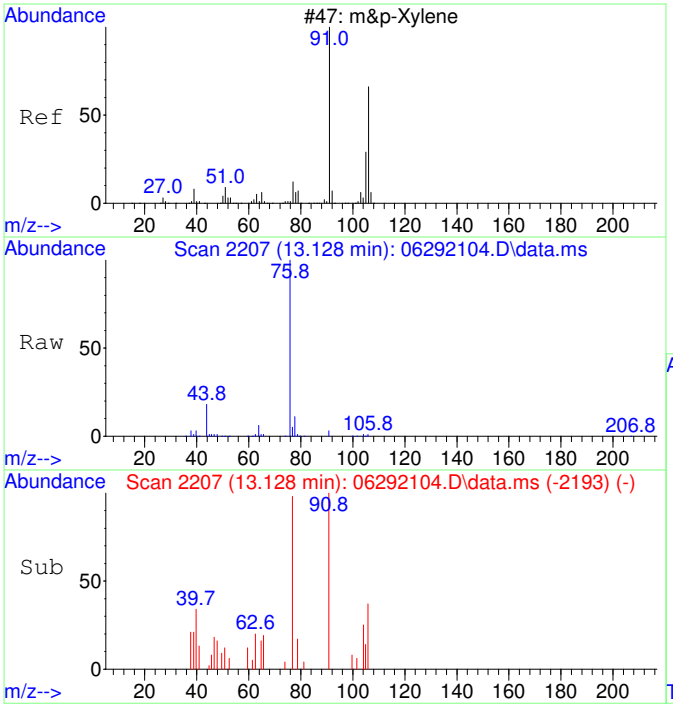


#42
Ethylbenzene SCAN
Concen: 59.65 ug/L
RT: 12.945 min Scan# 2184
Delta R.T. 0.016 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2101

Ion	Ratio	Lower	Upper
91	100		
106	18.0	0.5	60.5
51	6.4	0.0	39.6

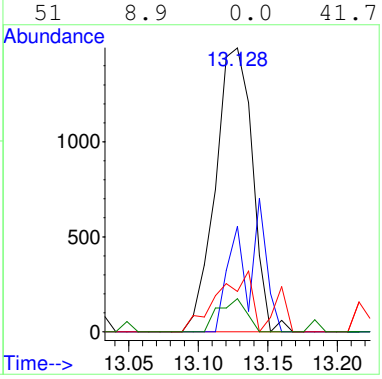


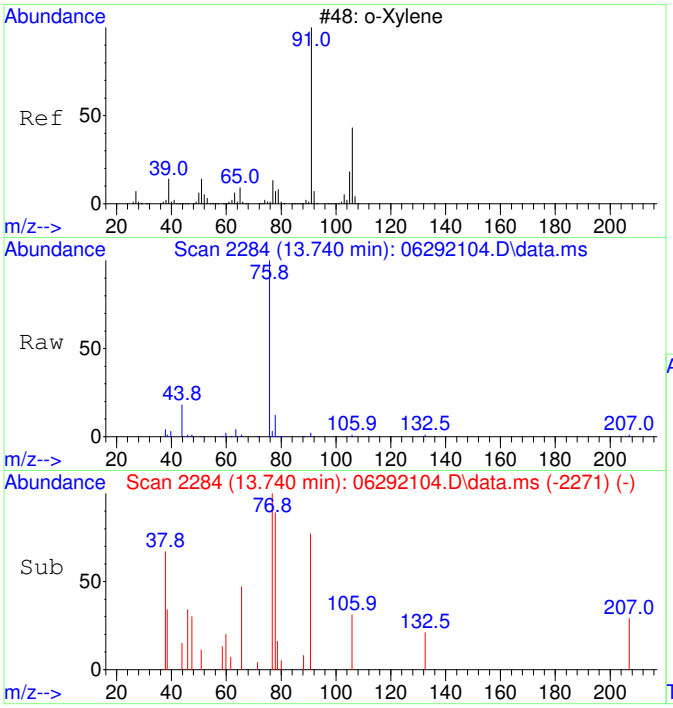


#43
m&p-Xylene SCAN
Concen: 52.54 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2761

Ion	Ratio	Lower	Upper
91	100		
106	14.2	21.2	81.2#
105	15.7	0.0	51.6
51	8.9	0.0	41.7

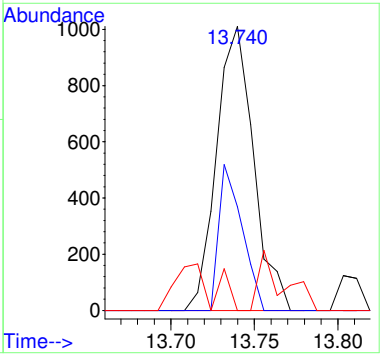


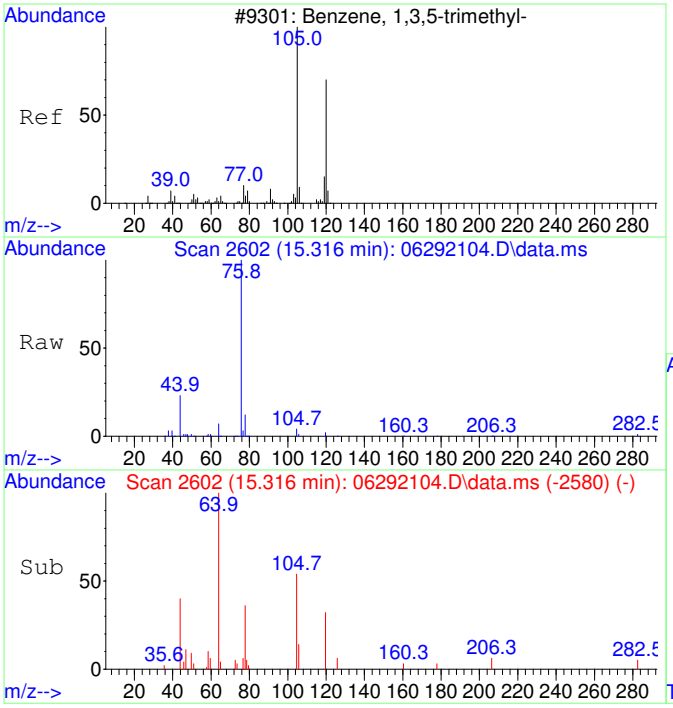


#44
o-Xylene SCAN
Concen: 54.04 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 1562

Ion	Ratio	Lower	Upper
91	100		
106	32.1	19.1	79.1
105	0.0	0.0	55.6

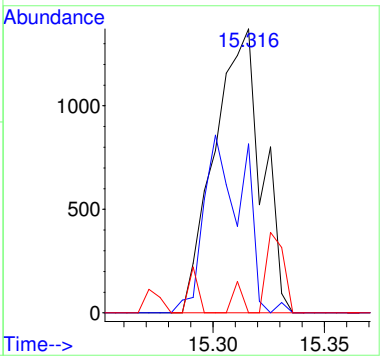


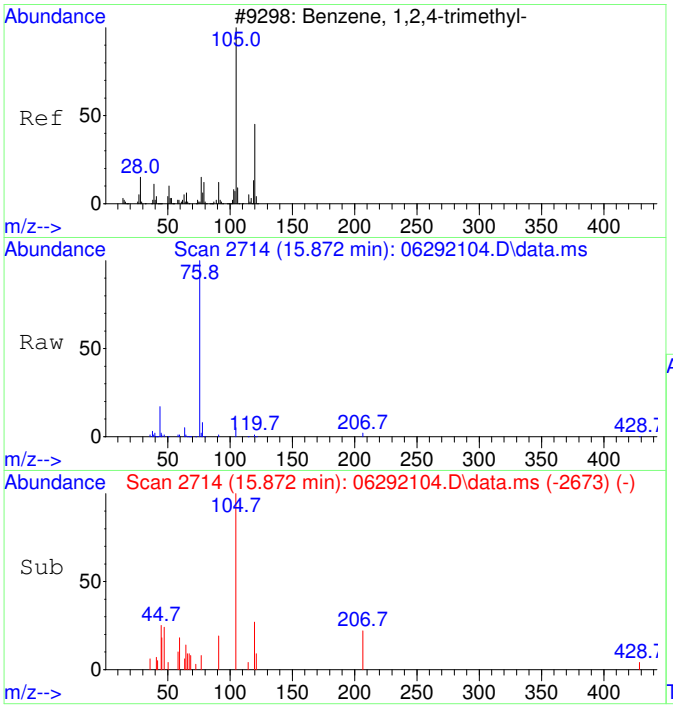


#46
1,3,5-Trimethylbenzene SCAN
Concen: 63.88 ug/L
RT: 15.316 min Scan# 2602
Delta R.T. 0.015 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2027

Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.2	80.2#
119	12.6	0.0	43.8

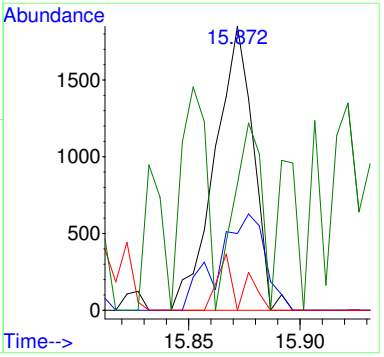


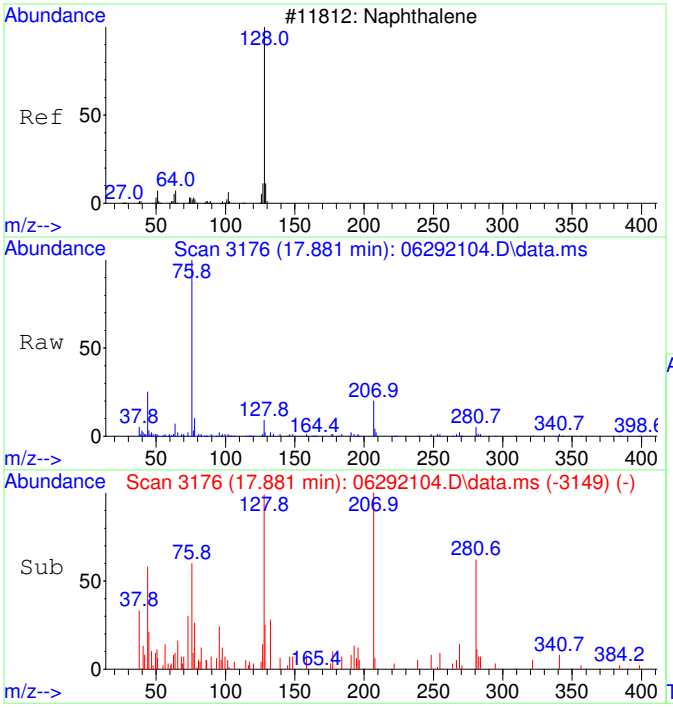


#47
1,2,4-Trimethylbenzene SCAN
Concen: 67.77 ug/L
RT: 15.872 min Scan# 2714
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2227

Ion	Ratio	Lower	Upper
105	100		
120	42.0	15.6	75.6
119	11.9	0.0	38.2
77	46.9	0.0	44.0#

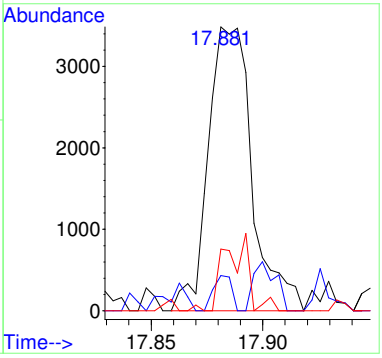




#48
Naphthalene SCAN
Concen: 79.69 ug/L
RT: 17.881 min Scan# 3176
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:128 Resp: 4775

Ion	Ratio	Lower	Upper
128	100		
127	5.1	0.0	41.1
129	0.0	0.0	39.5



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292104.D
Acq On : 29 Jun 2021 9:46
InstName : AG5975C
Operator : TD
Sample : S21F073-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:07:25 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

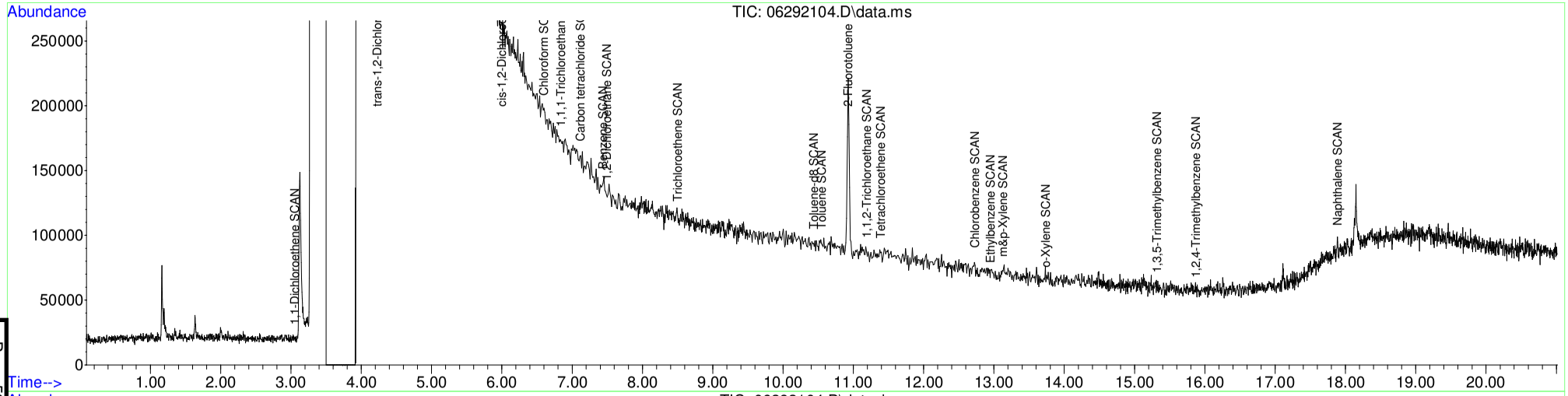
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	191233	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	1682	51.35 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.03%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	388	46.58 ug/L #	98
3] trans-1,2-Dichloroethene	4.221	61	340	47.43 ug/L #	90
4] 1,1-Dichloroethane	4.970	63	464	47.20 ug/L #	12
5] cis-1,2-Dichloroethene	5.999	61	459	48.73 ug/L #	95
6] Chloroform	6.564	83	605	54.57 ug/L #	94
7] 1,1,1-Trichloroethane	6.832	97	526	50.99 ug/L #	95
8] Carbon tetrachloride	7.099	117	454	50.52 ug/L #	89
9] Benzene	7.428	78	3271	105.01 ug/L #	49
10] 1,2-Dichloroethane	7.476	62	460	53.69 ug/L #	1
11] Trichloroethene	8.514	130	408	49.19 ug/L	93
13] Toluene	10.528	91	2423	56.83 ug/L	98
14] 1,1,2-Trichloroethane	11.189	97	462	52.09 ug/L #	98
15] Tetrachloroethene	11.389	166	559	51.25 ug/L #	98
16] Chlorobenzene	12.724	112	2829	76.62 ug/L #	92
17] 1,1,1,2-Tetrachloroethane	12.875	131	500	50.89 ug/L #	91
18] Ethylbenzene	12.931	91	2746	50.15 ug/L #	94
19] m&p-Xylene	13.122	91	4459	103.37 ug/L #	95
20] o-Xylene	13.741	91	2363	50.65 ug/L #	94
21] 1,1,2,2-Tetrachloroethane	14.838	83	986	48.50 ug/L #	98
22] 1,3,5-Trimethylbenzene	15.307	105	2875	52.47 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	3211	56.26 ug/L #	99
24] Naphthalene	17.883	128	8783	82.39 ug/L #	99
25) 2-Fluorotoluene SCAN	10.926	109	108639	4615.50 ug/L	97
26) 1,1-Dichloroethene SCAN	3.052	61	242	48.68 ug/L #	56
27) trans-1,2-Dichloroethe...	4.226	61	198	36.81 ug/L #	16
29) cis-1,2-Dichloroethene...	5.998	61	536	73.71 ug/L #	45
30) Chloroform SCAN	6.587	83	549	71.39 ug/L #	1
31) 1,1,1-Trichloroethane ...	6.842	97	397	55.25 ug/L #	51
32) Carbon tetrachloride SCAN	7.110	117	337	56.84 ug/L #	17
33) Benzene SCAN	7.438	78	6456	357.85 ug/L	95
34) 1,2-Dichloroethane SCAN	7.487	62	393	69.10 ug/L #	36
35) Trichloroethene SCAN	8.502	130	159	34.58 ug/L #	30
36) Toluene-d8 SCAN	10.432	98	2058	100.81 ug/L	81
37) Toluene SCAN	10.548	91	2323	87.92 ug/L #	33
38) 1,1,2-Trichloroethane ...	11.188	97	676	107.40 ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	217	34.10 ug/L #	45
40) Chlorobenzene SCAN	12.723	112	2173	110.32 ug/L #	1
42) Ethylbenzene SCAN	12.945	91	2101	59.65 ug/L	81
43) m&p-Xylene SCAN	13.128	91	2761	52.54 ug/L #	64
44) o-Xylene SCAN	13.740	91	1562	54.04 ug/L #	66
46) 1,3,5-Trimethylbenzene...	15.316	105	2027	63.88 ug/L #	42
47) 1,2,4-Trimethylbenzene...	15.872	105	2227	67.77 ug/L #	78
48) Naphthalene SCAN	17.881	128	4775	79.69 ug/L #	80

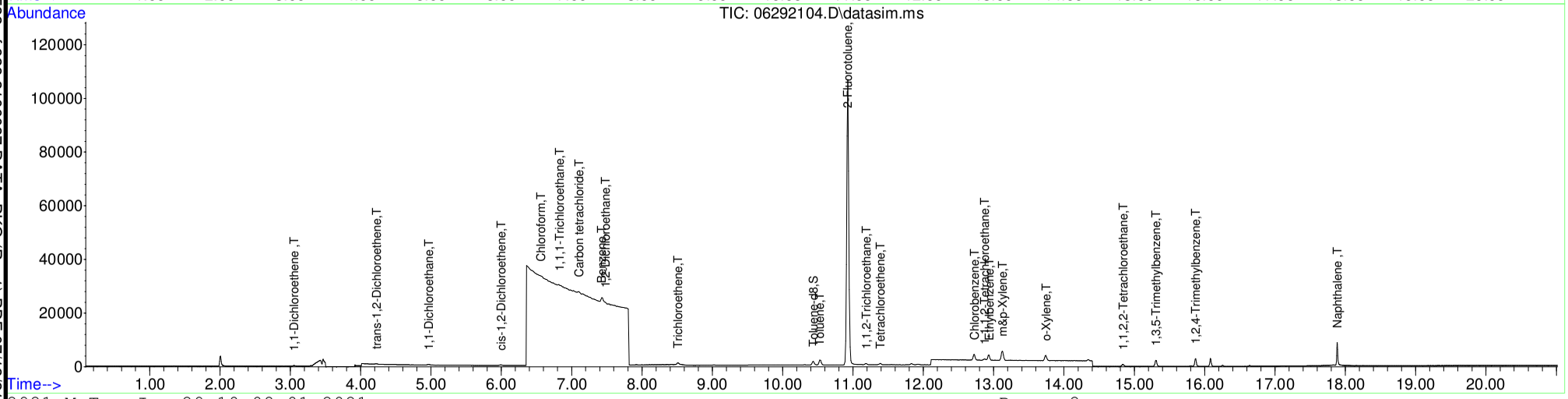
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292104.D
Acq On : 29 Jun 2021 9:46
InstName : AG5975C
Operator : TD
Sample : S21F073-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:07:25 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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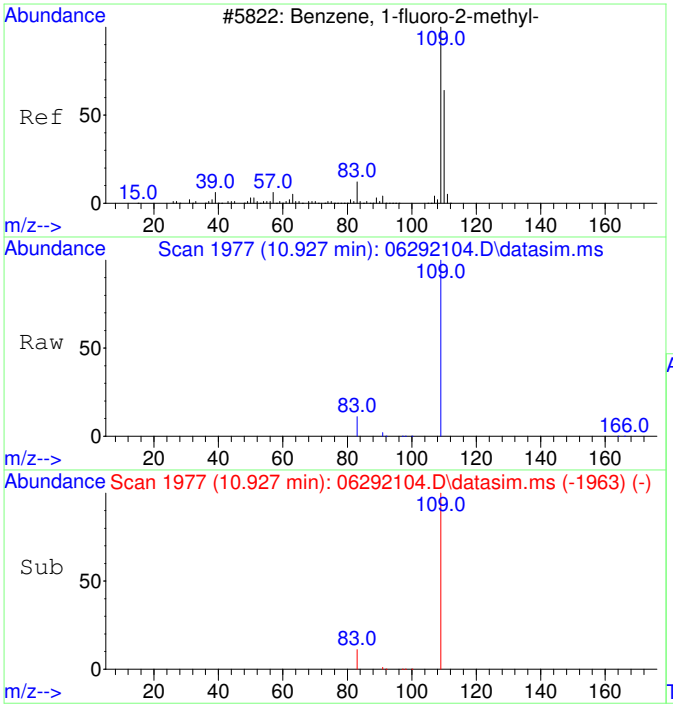
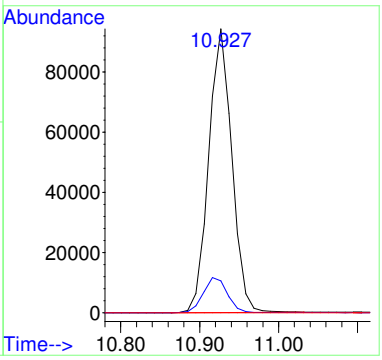
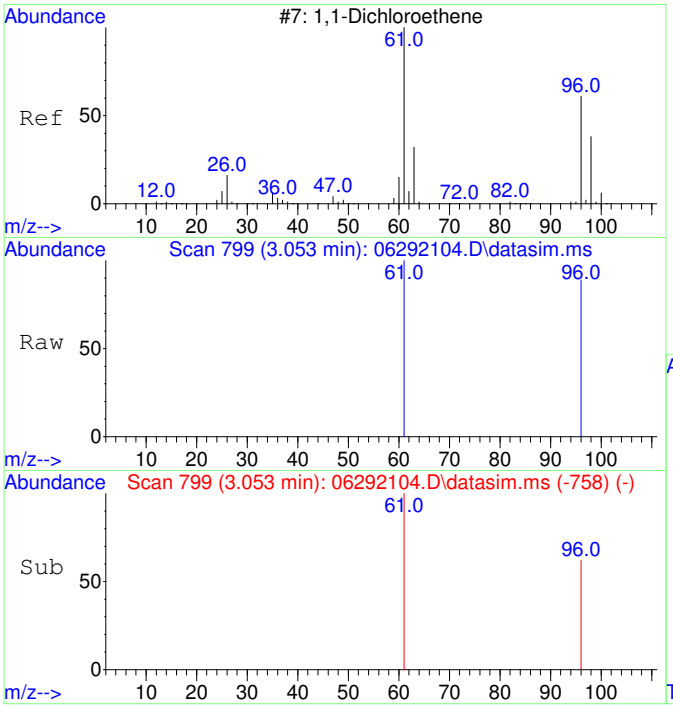


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:109 Resp: 191233

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	43.7
110	0.0	0.0	20.0

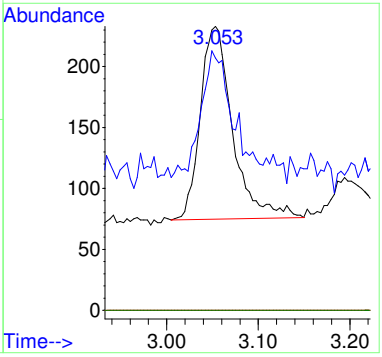


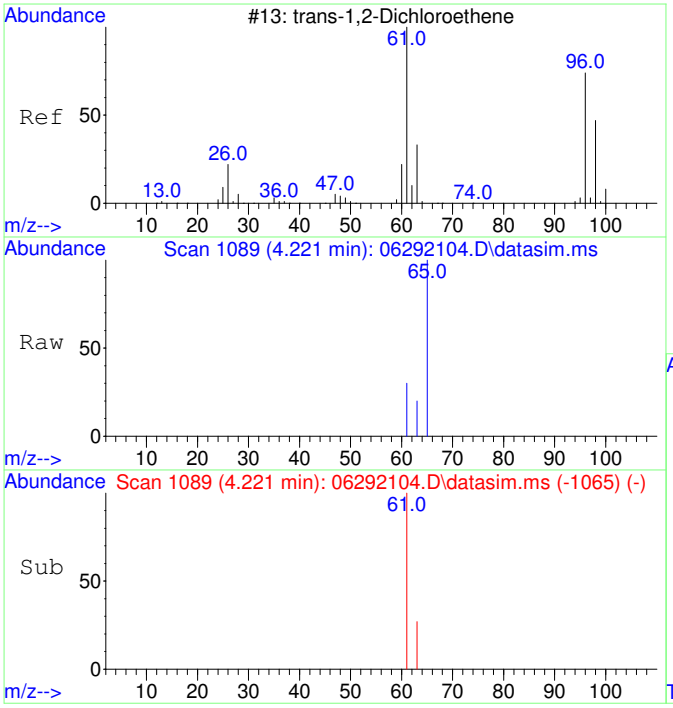


#2
1,1-Dichloroethene
Concen: 46.58 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 388

Ion	Ratio	Lower	Upper
61	100		
96	66.2	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

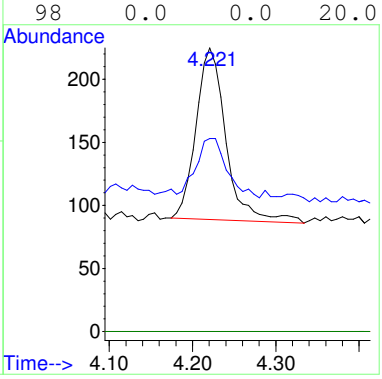


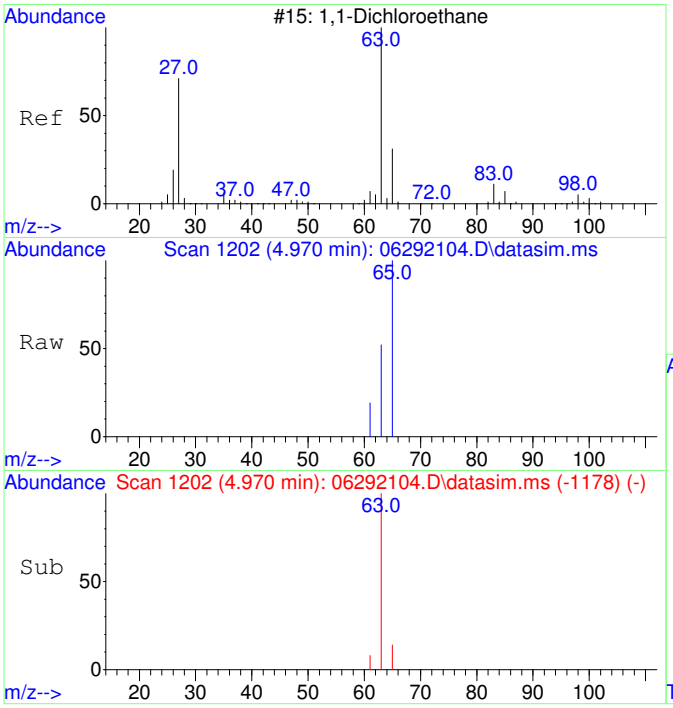


#3
trans-1,2-Dichloroethene
Concen: 47.43 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 340

Ion	Ratio	Lower	Upper
61	100		
63	37.9	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

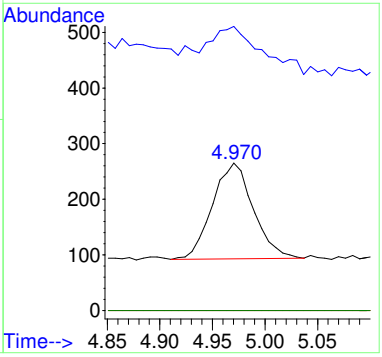


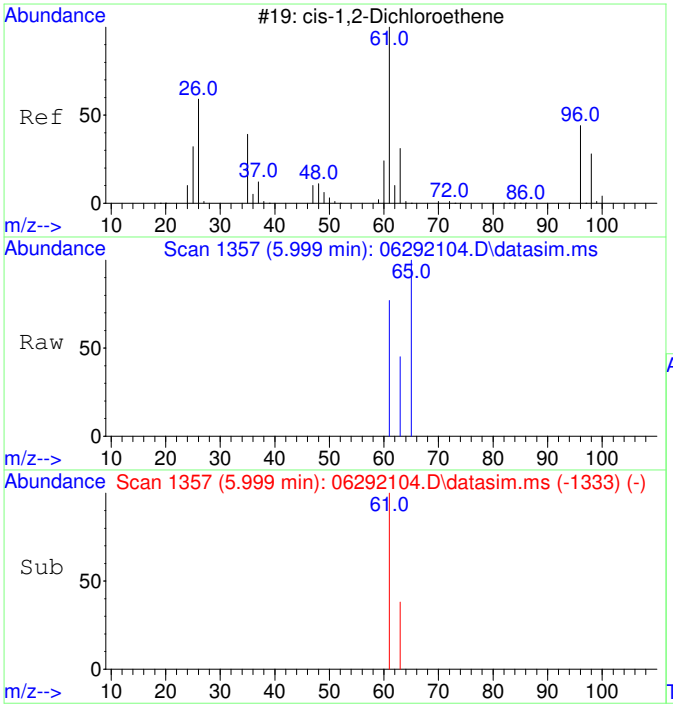


#4
1,1-Dichloroethane
Concen: 47.20 ug/L
RT: 4.970 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 63 Resp: 464

Ion	Ratio	Lower	Upper
63	100		
65	80.0	1.3	61.3#
83	0.0	0.0	20.0
98	0.0	0.0	20.0

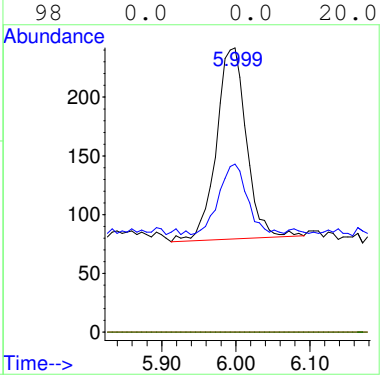


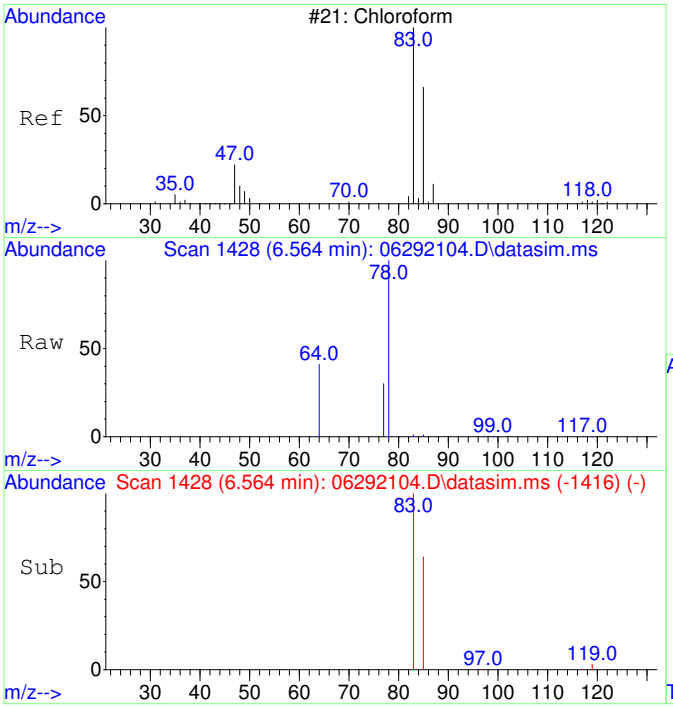


#5
cis-1,2-Dichloroethene
Concen: 48.73 ug/L
RT: 5.999 min Scan# 1357
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 459

Ion	Ratio	Lower	Upper
61	100		
63	35.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

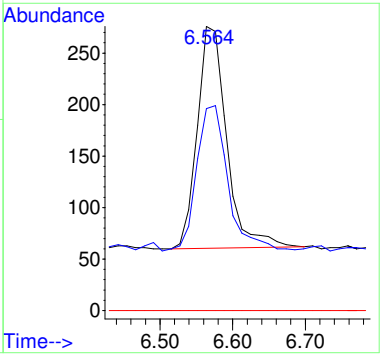


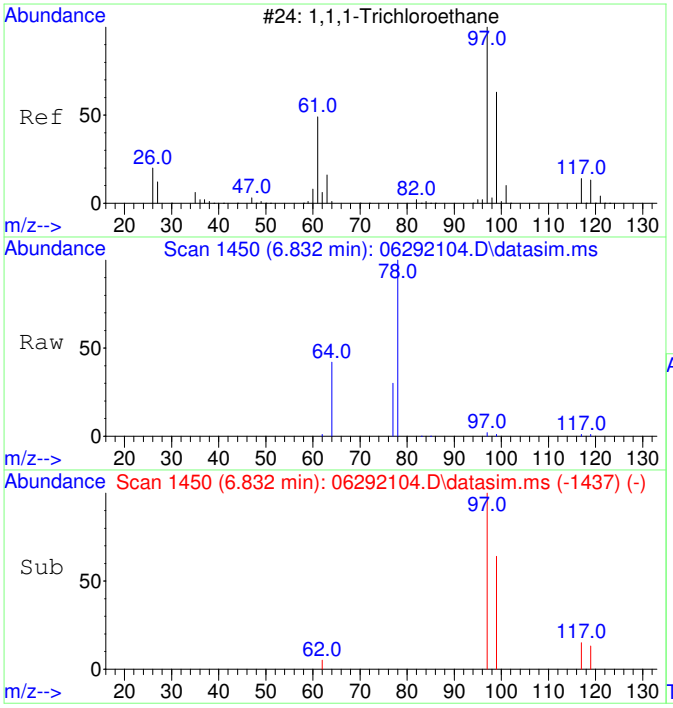


#6
Chloroform
Concen: 54.57 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 605

Ion	Ratio	Lower	Upper
83	100		
85	68.9	34.5	94.5
87	0.0	0.0	20.0

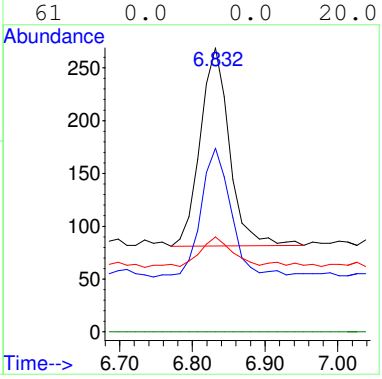


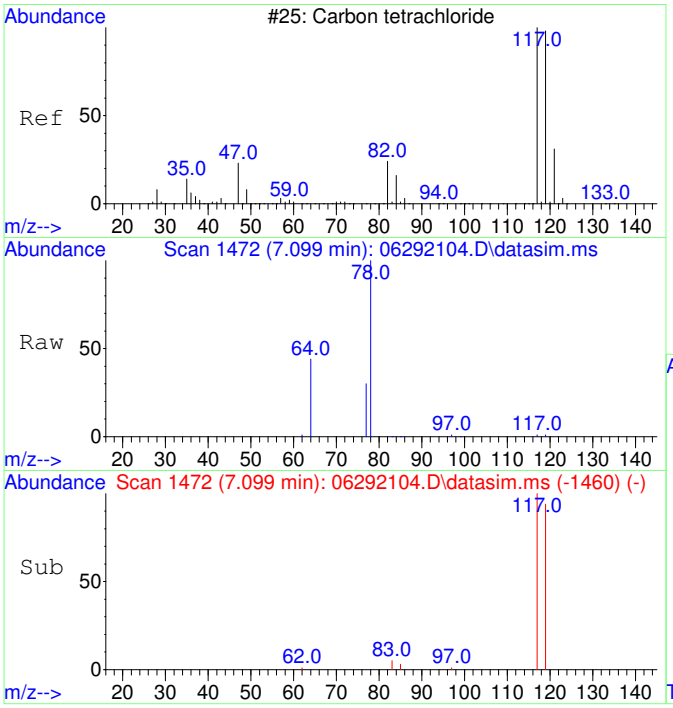


#7
1,1,1-Trichloroethane
Concen: 50.99 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 526

Ion	Ratio	Lower	Upper
97	100		
99	67.5	34.4	94.4
117	17.9	0.0	42.8
61	0.0	0.0	20.0

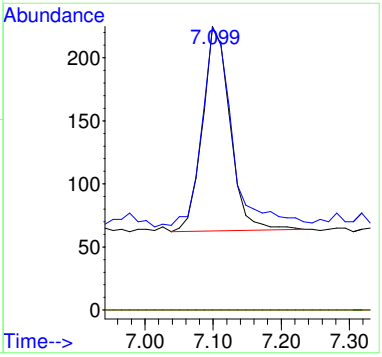


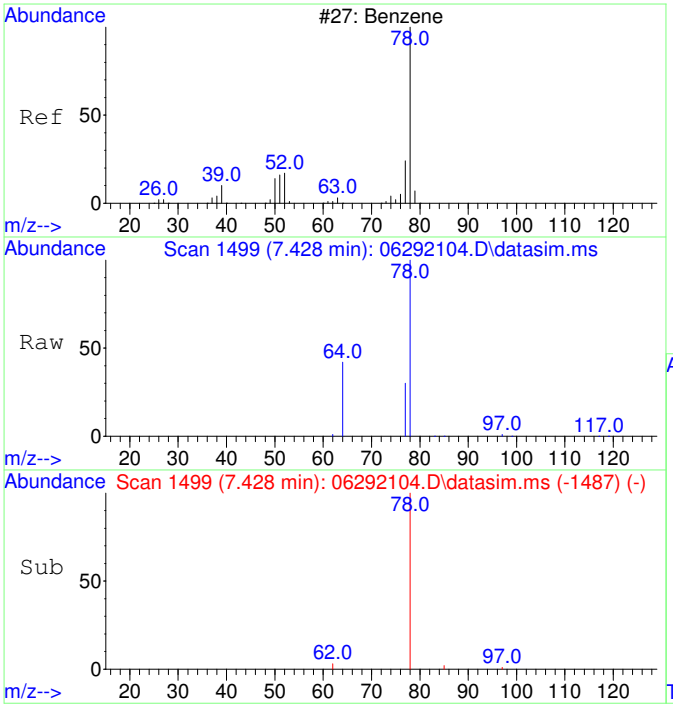


#8
Carbon tetrachloride
Concen: 50.52 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:117 Resp: 454

Ion	Ratio	Lower	Upper
117	100		
119	107.5	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

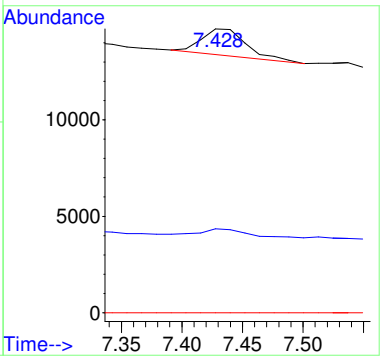


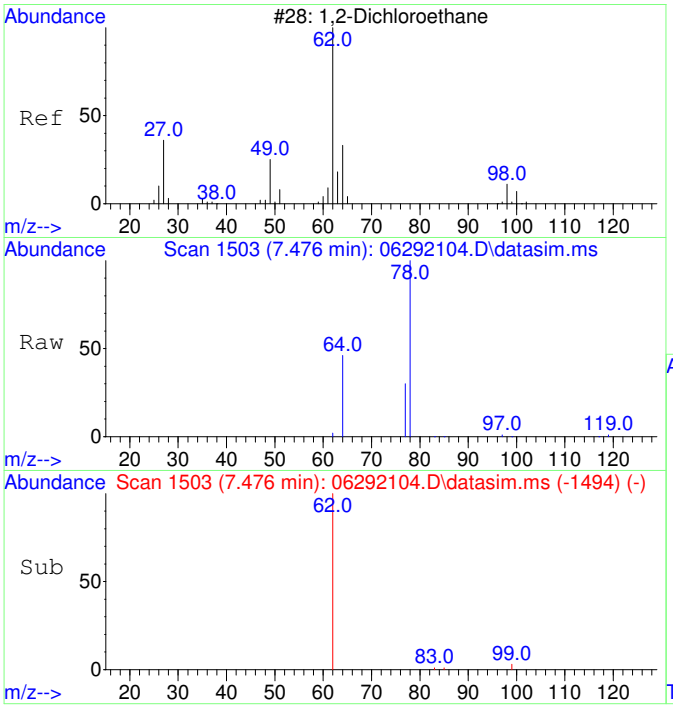


#9
Benzene
Concen: 105.01 ug/L
RT: 7.428 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 78 Resp: 3271

Ion	Ratio	Lower	Upper
78	100		
77	48.7	0.0	53.7
52	0.0	0.0	20.0

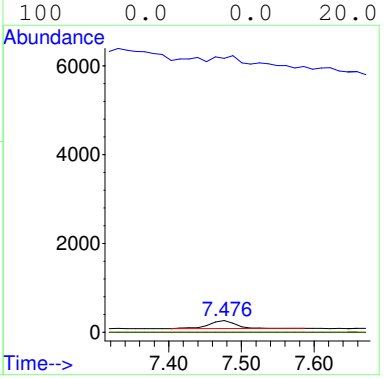


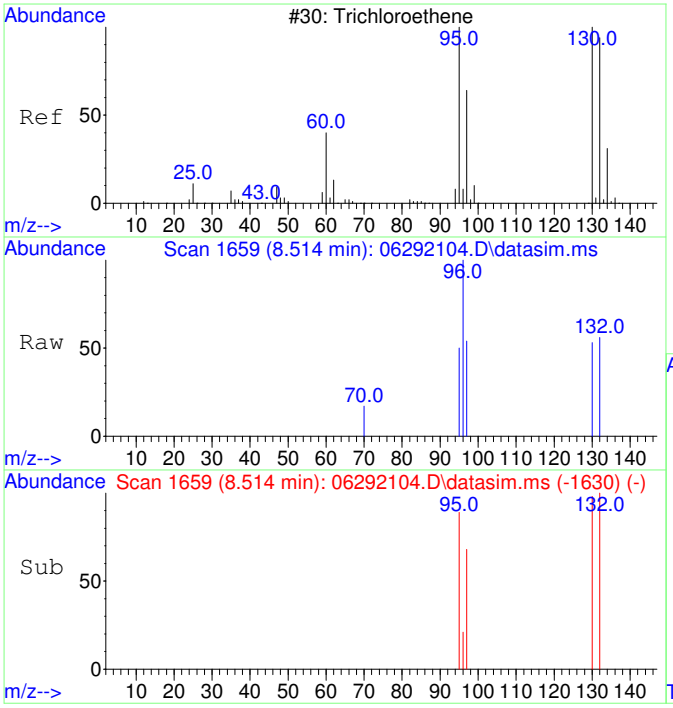


#10
1,2-Dichloroethane
Concen: 53.69 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 62 Resp: 460

Ion	Ratio	Lower	Upper
62	100		
64	92.8	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

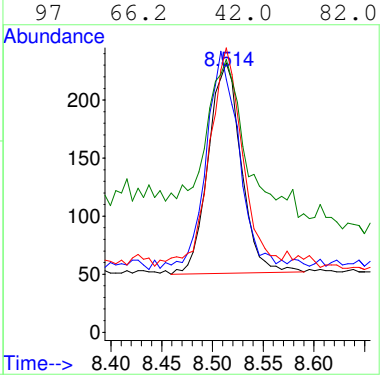


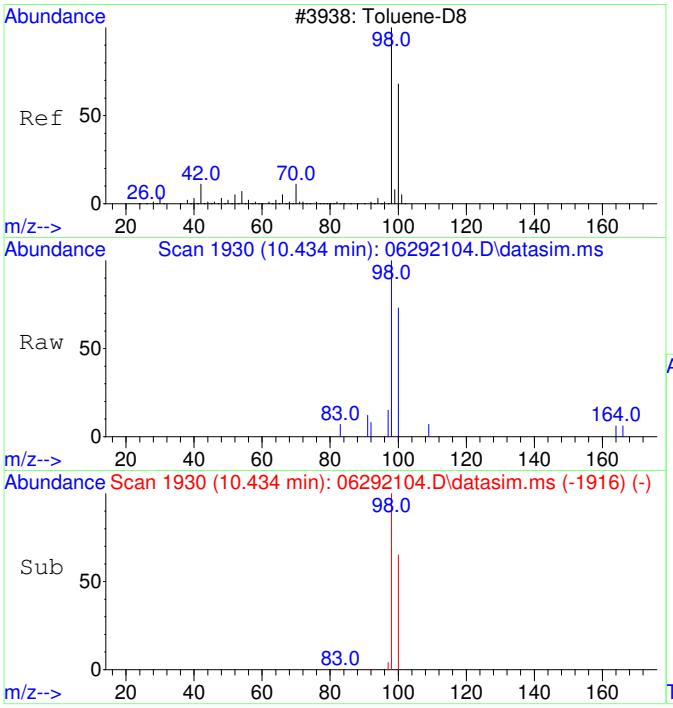


#11
Trichloroethene
Concen: 49.19 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:130 Resp: 408

Ion	Ratio	Lower	Upper
130	100		
95	102.5	65.8	125.8
132	103.9	75.8	115.8
97	66.2	42.0	82.0

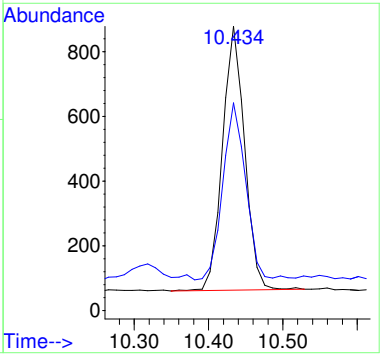


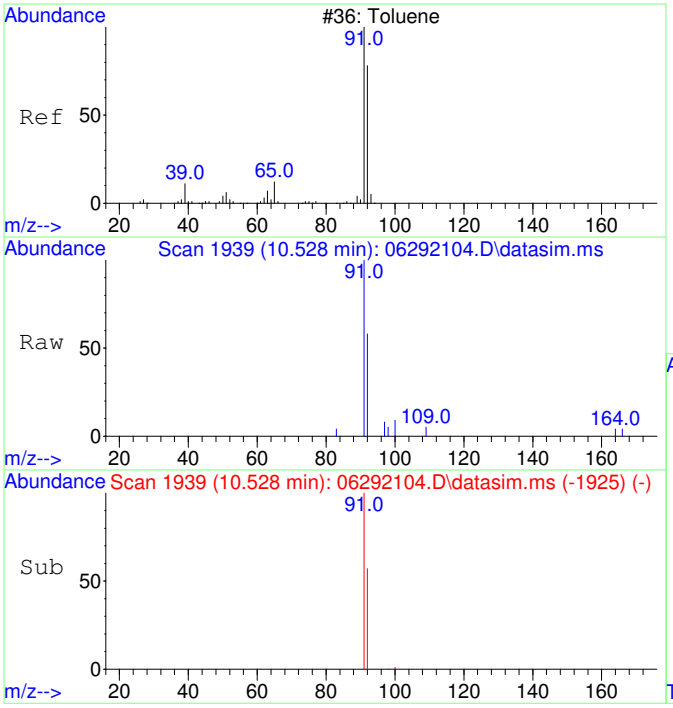


#12
Toluene-d8
Concen: 51.35 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 98 Resp: 1682

Ion	Ratio	Lower	Upper
98	100		
100	67.6	37.3	97.3

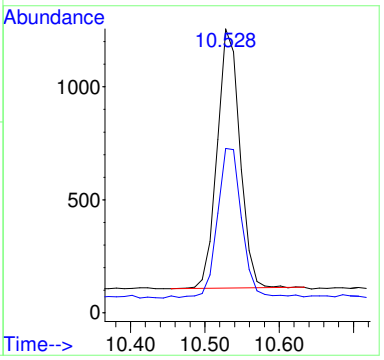


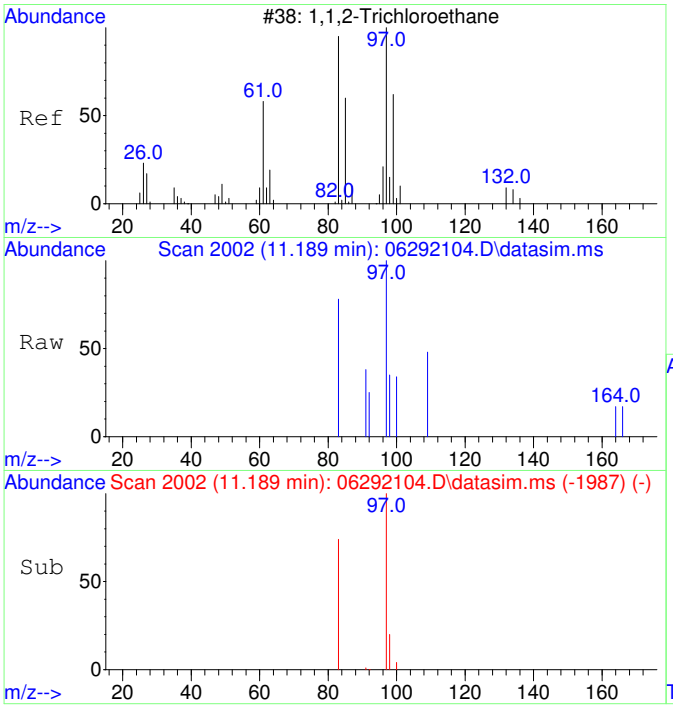


#13
Toluene
Concen: 56.83 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2423

Ion	Ratio	Lower	Upper
91	100		
92	61.9	30.2	90.2

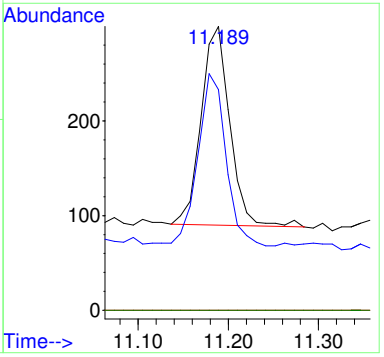


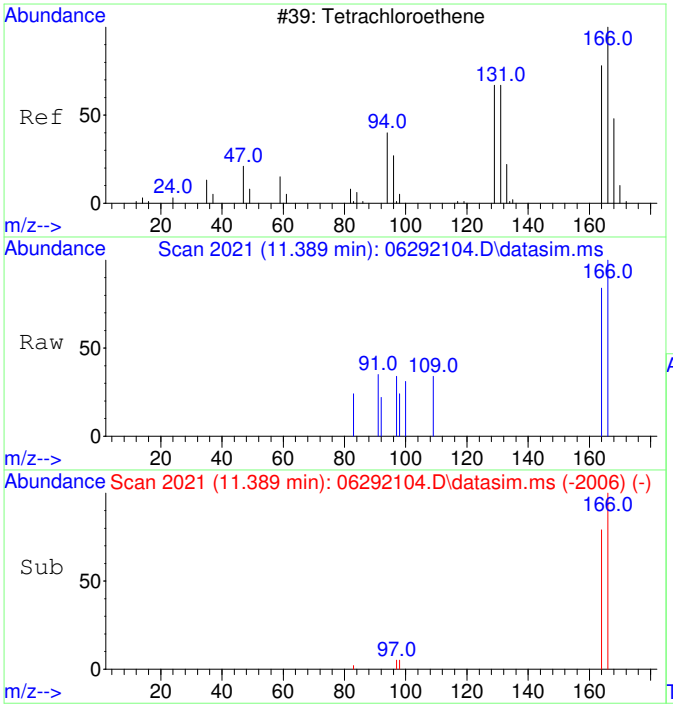


#14
1,1,2-Trichloroethane
Concen: 52.09 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 462

Ion	Ratio	Lower	Upper
97	100		
83	85.1	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

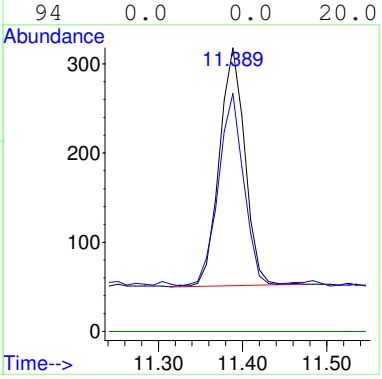


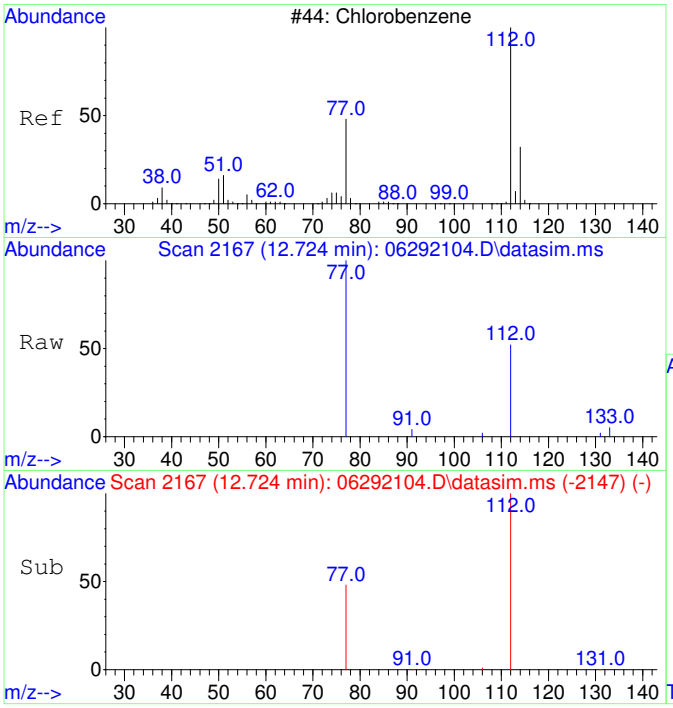


#15
Tetrachloroethene
Concen: 51.25 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:166 Resp: 559

Ion	Ratio	Lower	Upper
166	100		
164	79.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

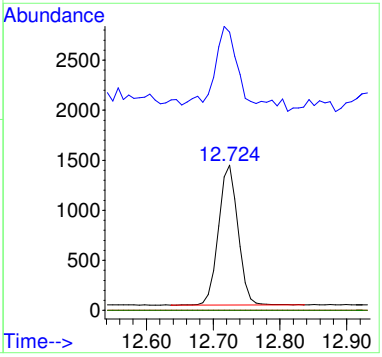


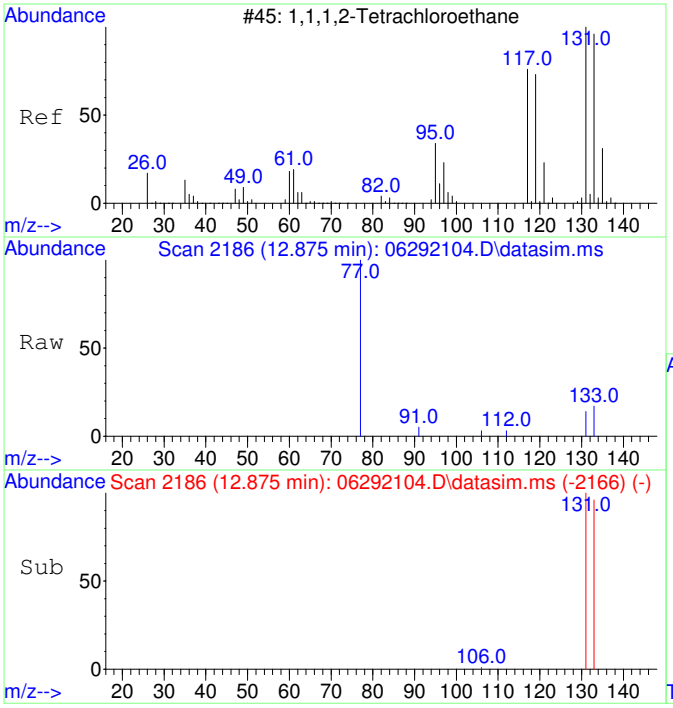


#16
Chlorobenzene
Concen: 76.62 ug/L
RT: 12.724 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:112 Resp: 2829

Ion	Ratio	Lower	Upper
112	100		
77	62.9	27.0	87.0
114	0.0	0.0	20.0
51	0.0	0.0	20.0

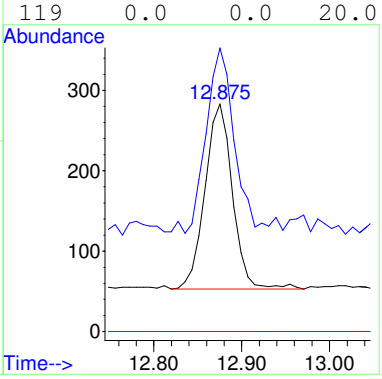


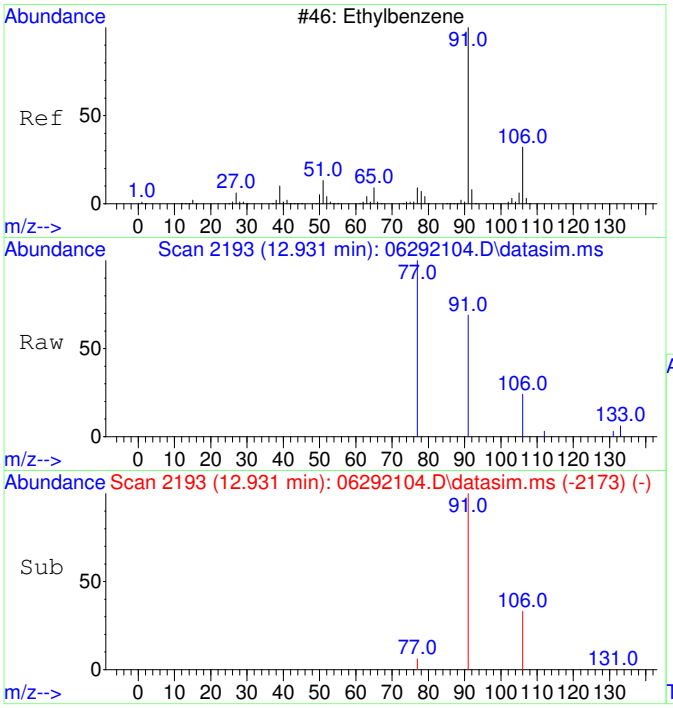


#17
1,1,1,2-Tetrachloroethane
Concen: 50.89 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:131 Resp: 500

Ion	Ratio	Lower	Upper
131	100		
133	103.8	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

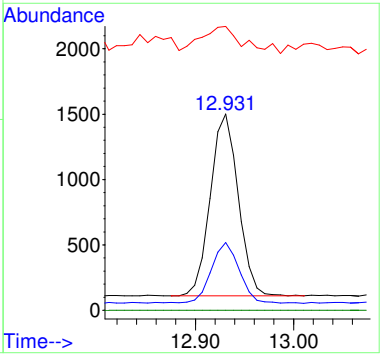


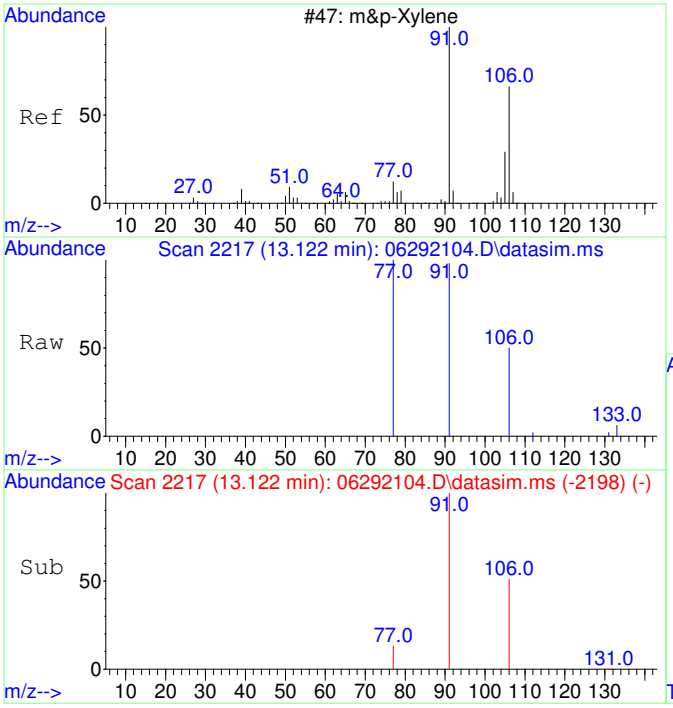


#18
Ethylbenzene
Concen: 50.15 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2746

Ion	Ratio	Lower	Upper
91	100		
106	33.5	2.8	62.8
77	16.6	0.0	38.2
105	0.0	0.0	20.0

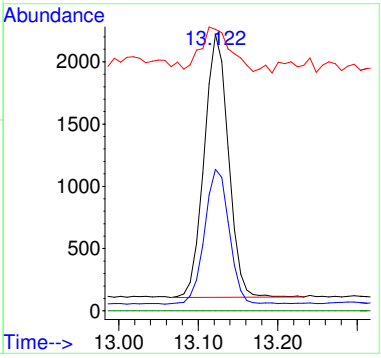


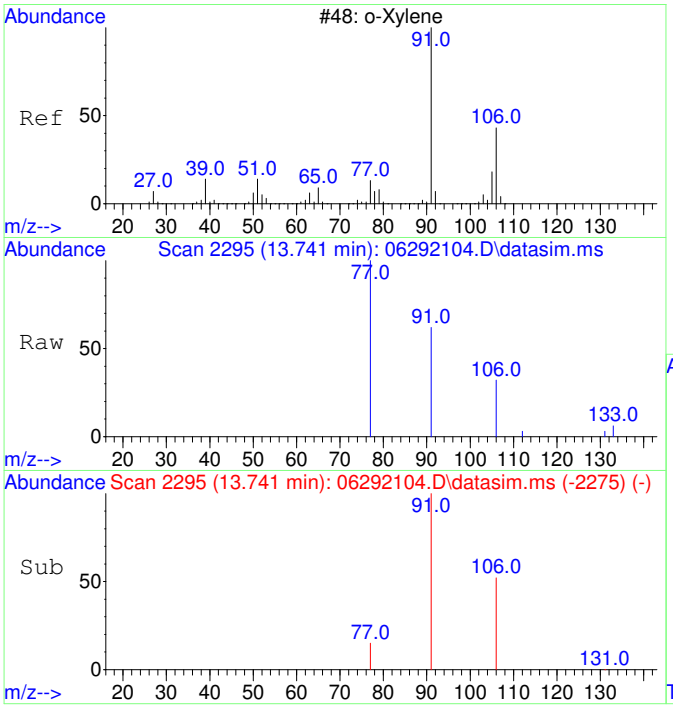


#19
m&p-Xylene
Concen: 103.37 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 4459

Ion	Ratio	Lower	Upper
91	100		
106	51.9	21.4	81.4
77	20.5	0.0	42.7
105	0.0	0.0	20.0

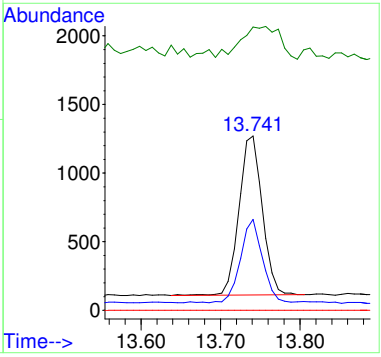


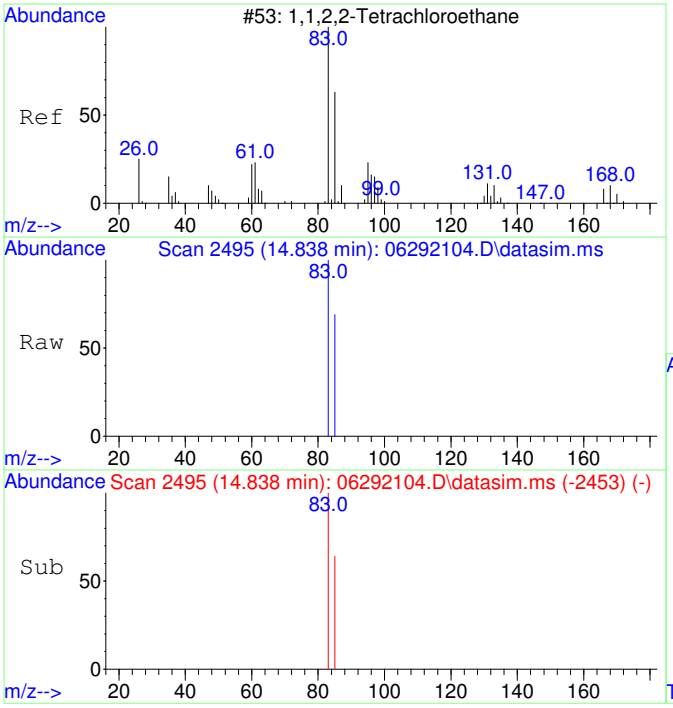


#20
o-Xylene
Concen: 50.65 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2363

Ion	Ratio	Lower	Upper
91	100		
106	48.9	18.7	78.7
105	0.0	0.0	30.0
77	35.2	7.3	47.3

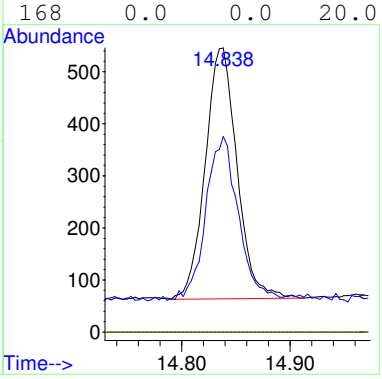


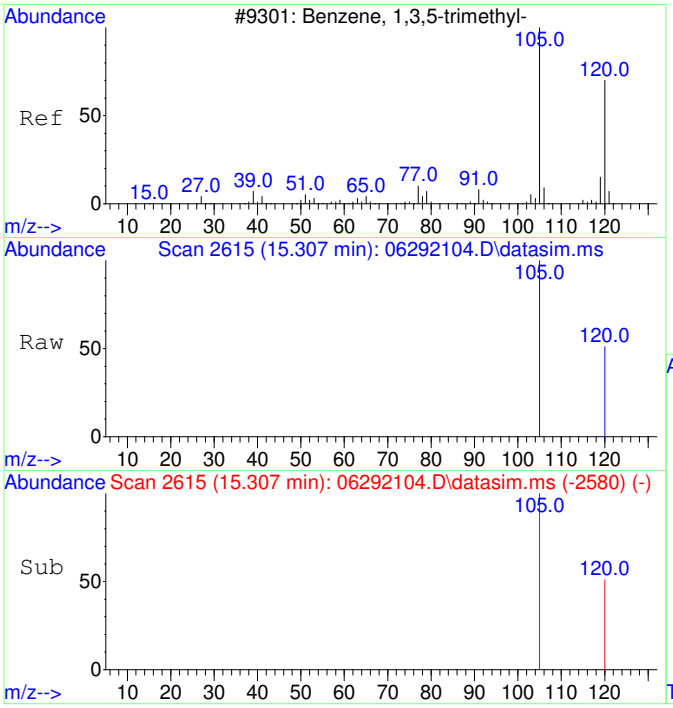


#21
1,1,2,2-Tetrachloroethane
Concen: 48.50 ug/L
RT: 14.838 min Scan# 2495
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 986

Ion	Ratio	Lower	Upper
83	100		
85	66.4	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

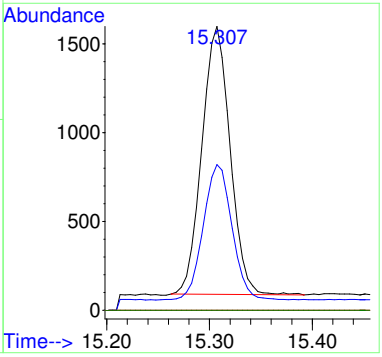


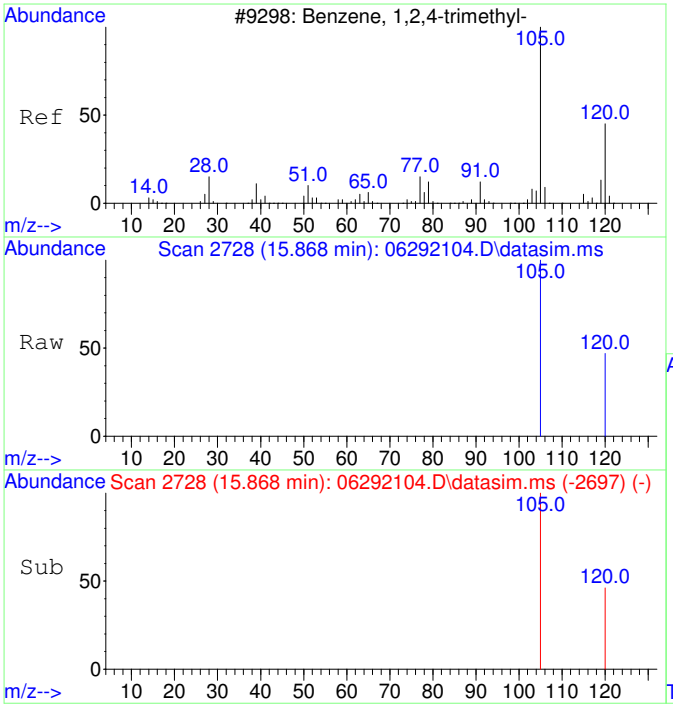


#22
1,3,5-Trimethylbenzene
Concen: 52.47 ug/L
RT: 15.307 min Scan# 2615
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2875

Ion	Ratio	Lower	Upper
105	100		
120	50.5	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

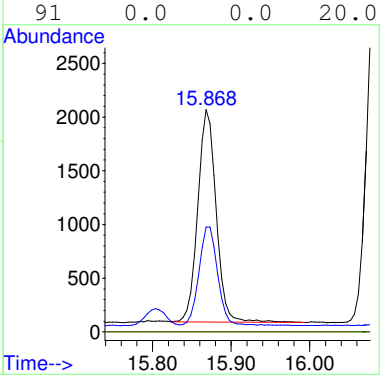


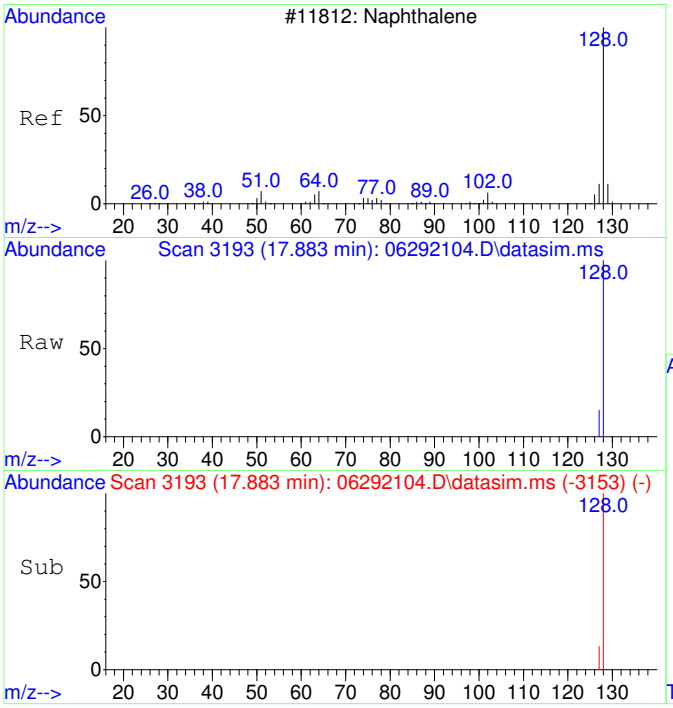


#23
1,2,4-Trimethylbenzene
Concen: 56.26 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 3211

Ion	Ratio	Lower	Upper
105	100		
120	46.6	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

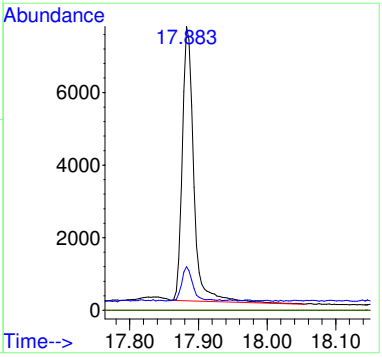


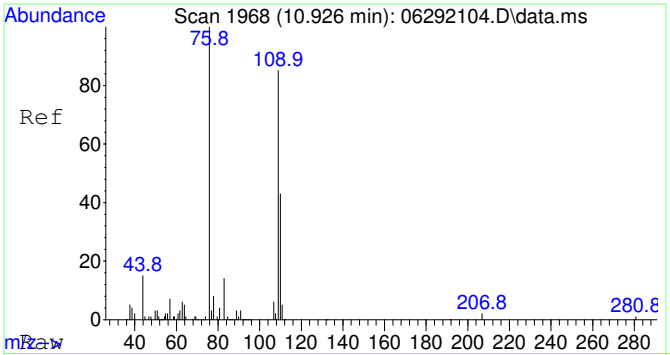


#24
Naphthalene
Concen: 82.39 ug/L
RT: 17.883 min Scan# 3193
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:128 Resp: 8783

Ion	Ratio	Lower	Upper
128	100		
127	12.0	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

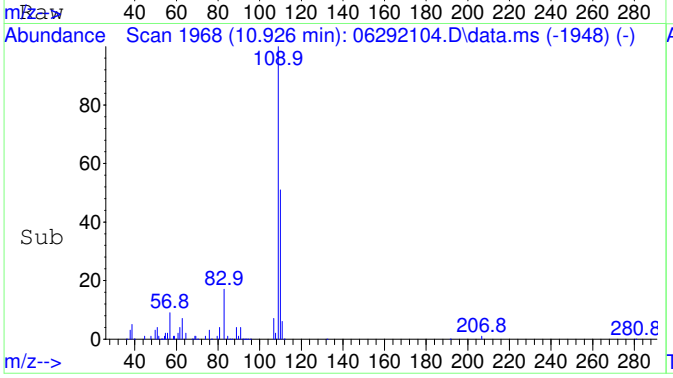


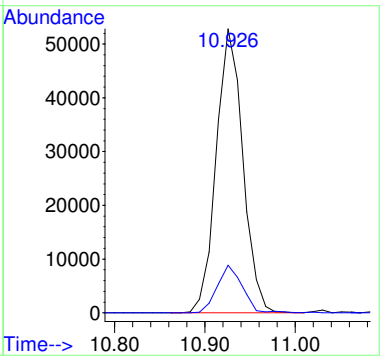


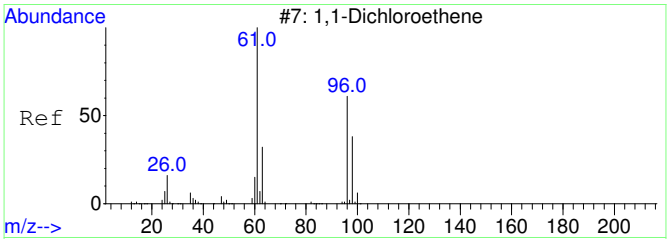
#25
2-Fluorotoluene SCAN
Concen: 4615.50 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:109 Resp: 108639

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	44.5



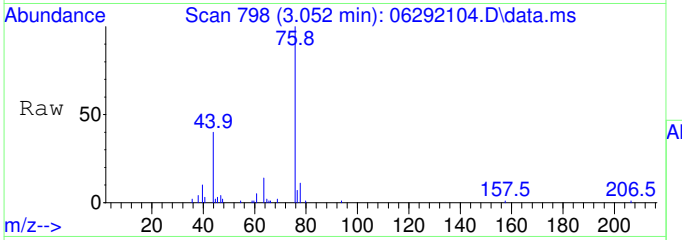


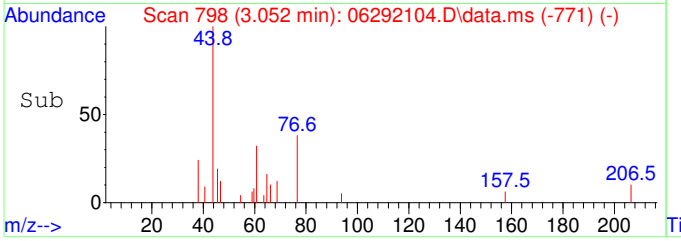


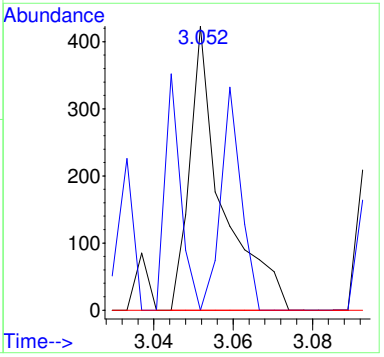
#26
1,1-Dichloroethene SCAN
Concen: 48.68 ug/L
RT: 3.052 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

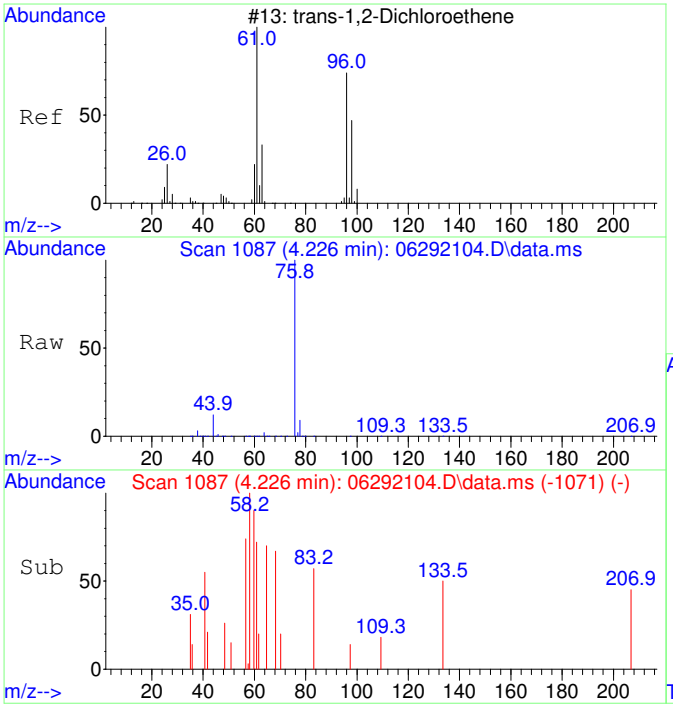
Tgt Ion: 61 Resp: 242

Ion	Ratio	Lower	Upper
61	100		
96	40.5	33.0	93.0
98	0.0	12.5	72.5#





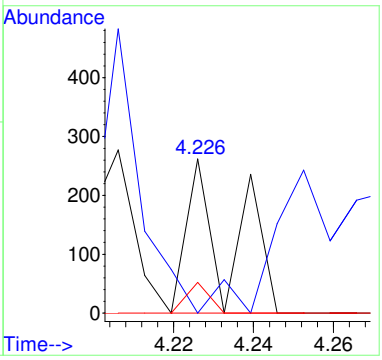


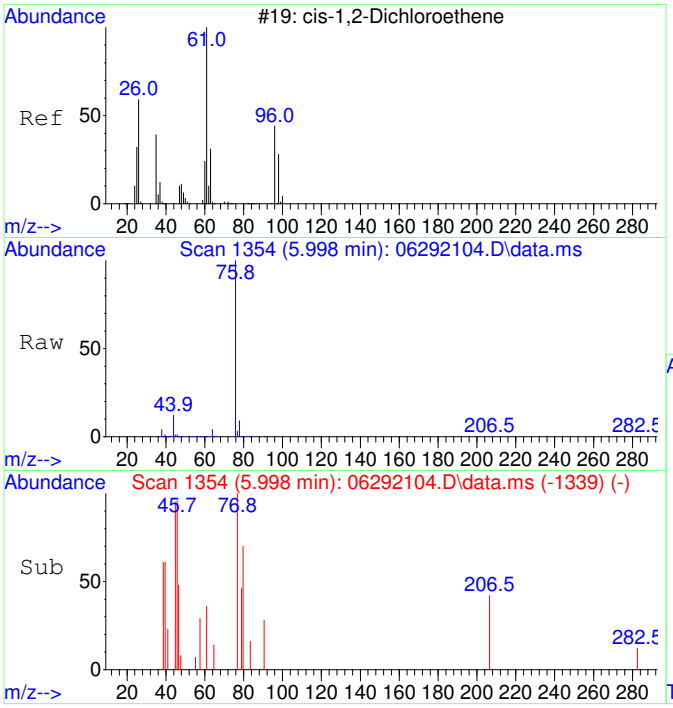


#27
trans-1,2-Dichloroethene SCAN
Concen: 36.81 ug/L
RT: 4.226 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 198

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	109.3#
98	0.0	24.0	84.0#

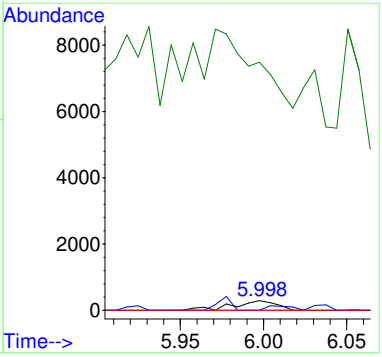


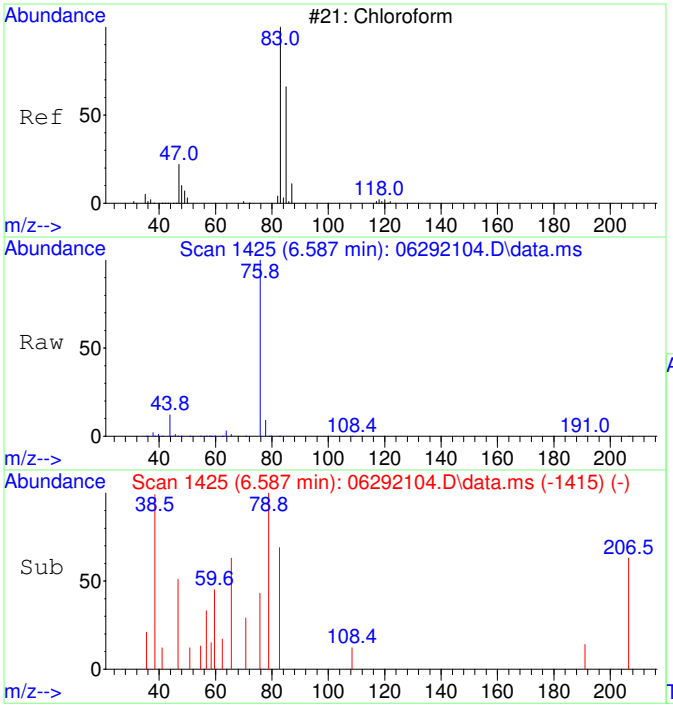


#29
cis-1,2-Dichloroethene SCAN
Concen: 73.71 ug/L
RT: 5.998 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 536

Ion	Ratio	Lower	Upper
61	100		
96	26.9	36.9	96.9#
98	0.0	12.1	72.1#
64	0.0	0.0	32.6

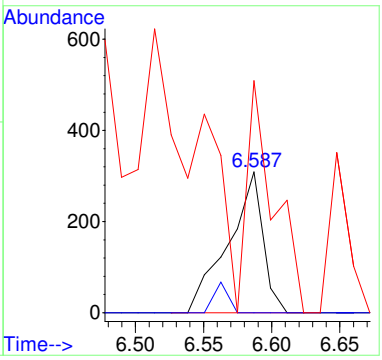


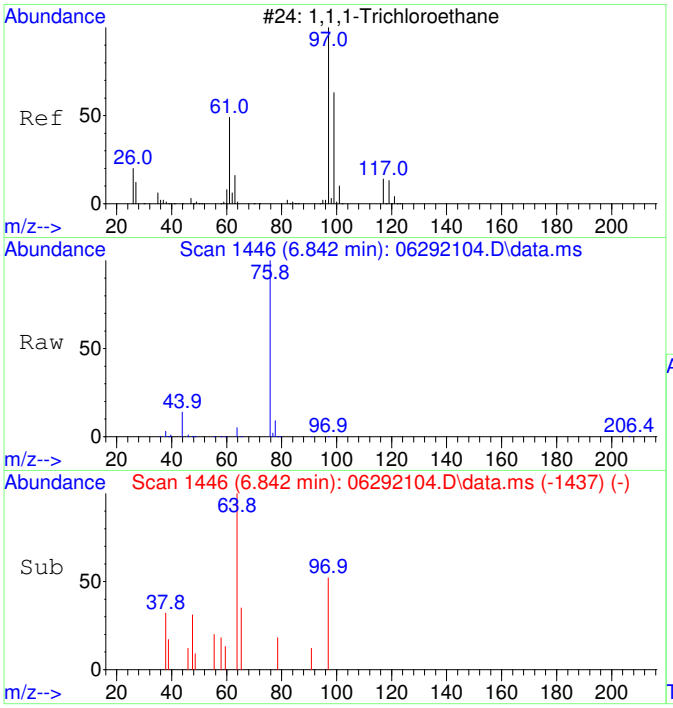


#30
Chloroform SCAN
Concen: 71.39 ug/L
RT: 6.587 min Scan# 1425
Delta R.T. 0.024 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 549

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	127.5	7.5	67.5#

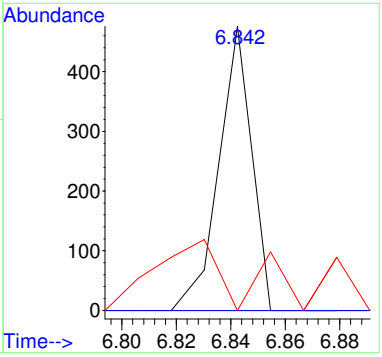


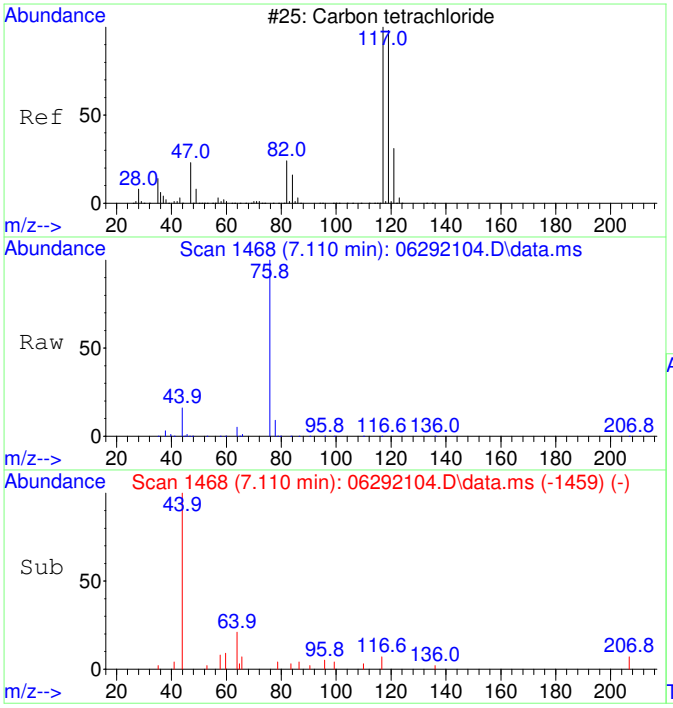


#31
1,1,1-Trichloroethane SCAN
Concen: 55.25 ug/L
RT: 6.842 min Scan# 1446
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 397

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	48.1	11.4	71.4

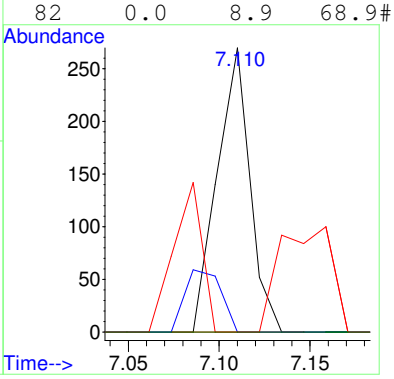


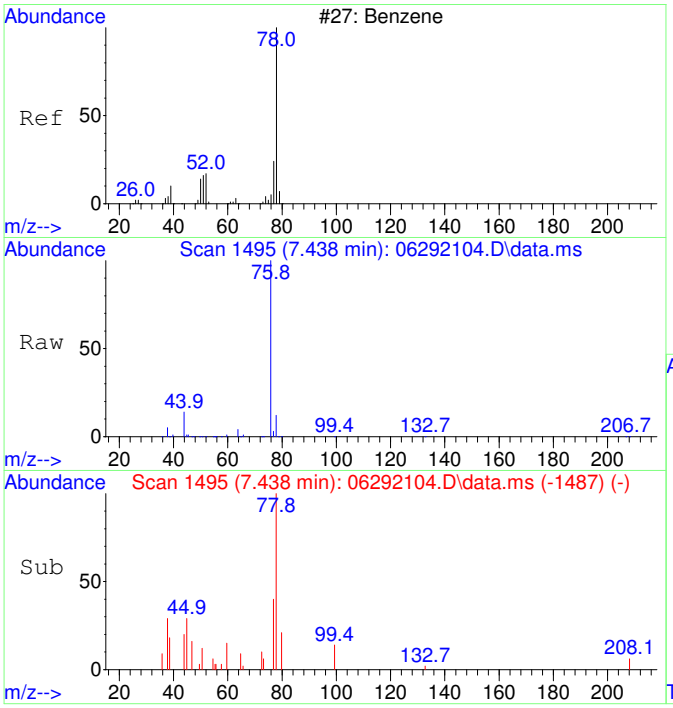


#32
Carbon tetrachloride SCAN
Concen: 56.84 ug/L
RT: 7.110 min Scan# 1468
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:117 Resp: 337

Ion	Ratio	Lower	Upper
117	100		
119	0.0	68.0	128.0#
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

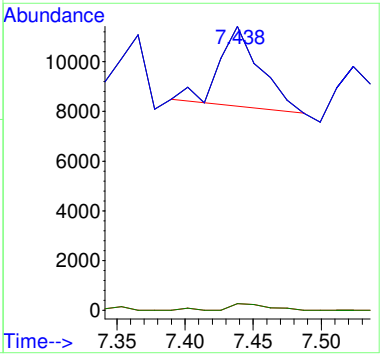


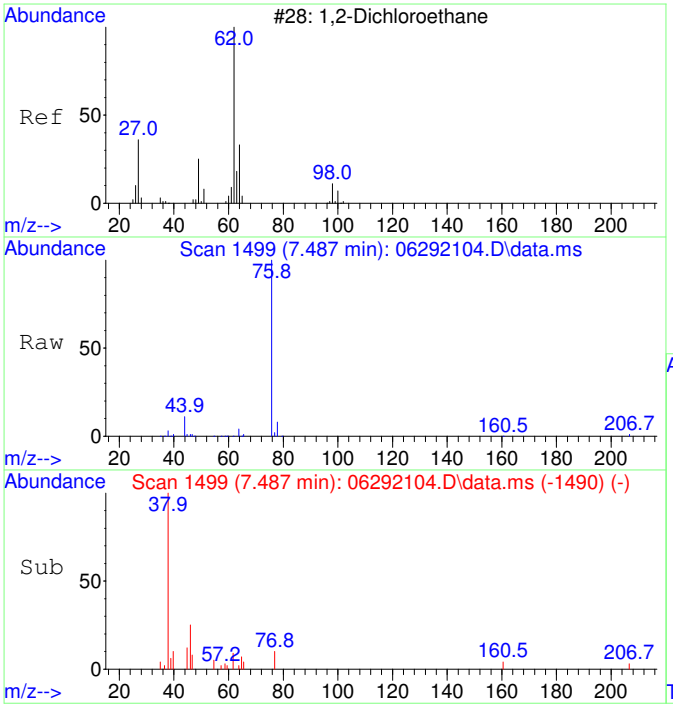


#33
Benzene SCAN
Concen: 357.85 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 78 Resp: 6456

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.7	0.0	46.7
51	8.7	0.0	46.7

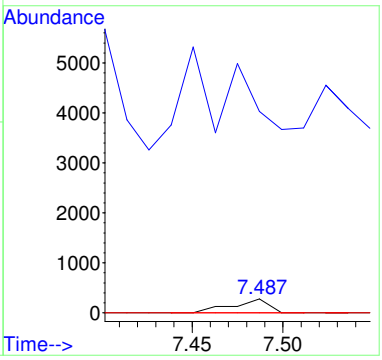


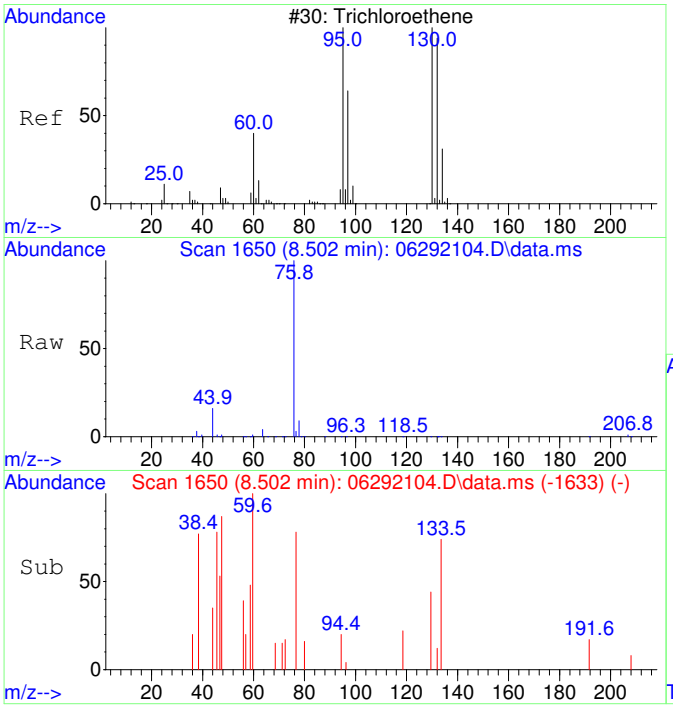


#34
1,2-Dichloroethane SCAN
Concen: 69.10 ug/L
RT: 7.487 min Scan# 1499
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 62 Resp: 393

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

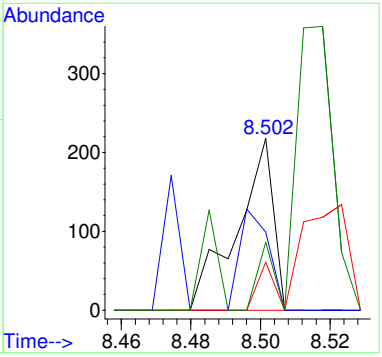


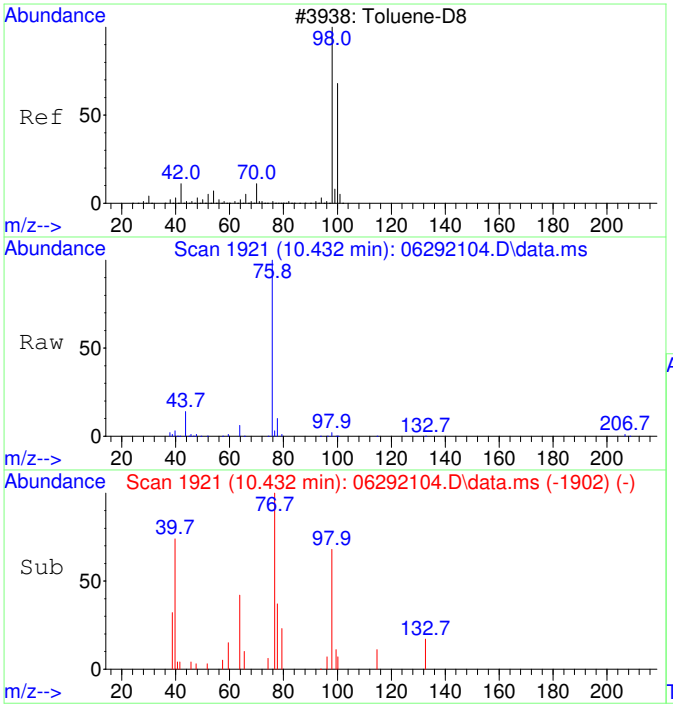


#35
Trichloroethene SCAN
Concen: 34.58 ug/L
RT: 8.502 min Scan# 1650
Delta R.T. -0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:130 Resp: 159

Ion	Ratio	Lower	Upper
130	100		
95	46.5	60.0	120.0#
132	0.0	54.3	114.3#
97	0.0	24.6	84.6#

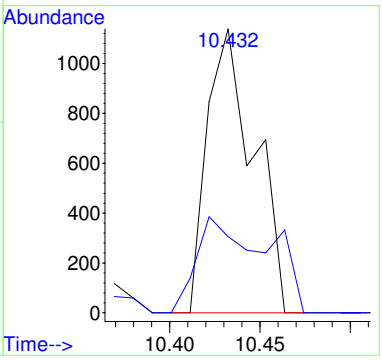


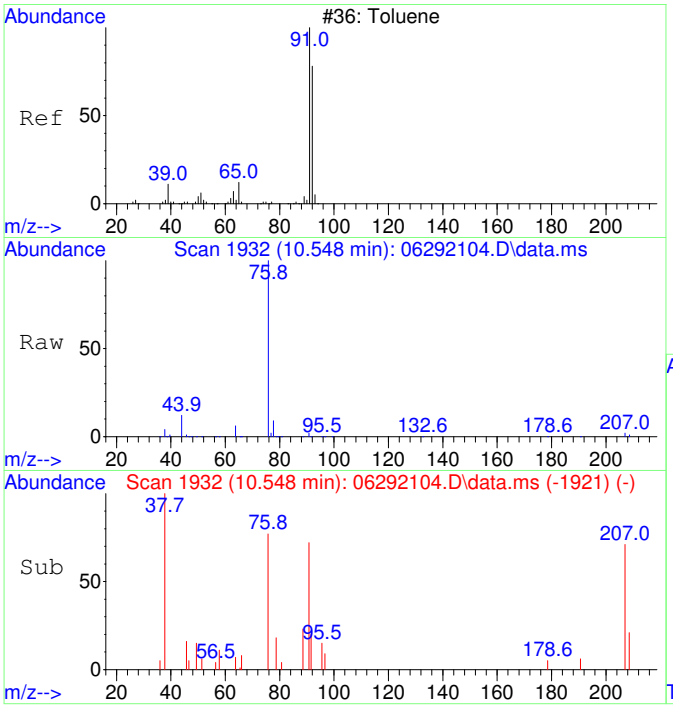


#36
Toluene-d8 SCAN
Concen: 100.81 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 98 Resp: 2058

Ion	Ratio	Lower	Upper
98	100		
100	50.6	36.1	96.1

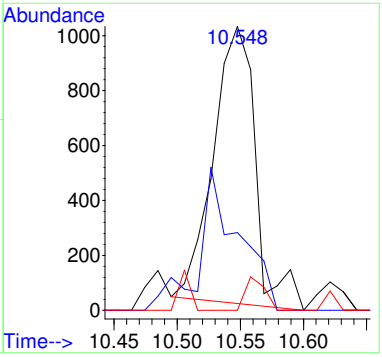


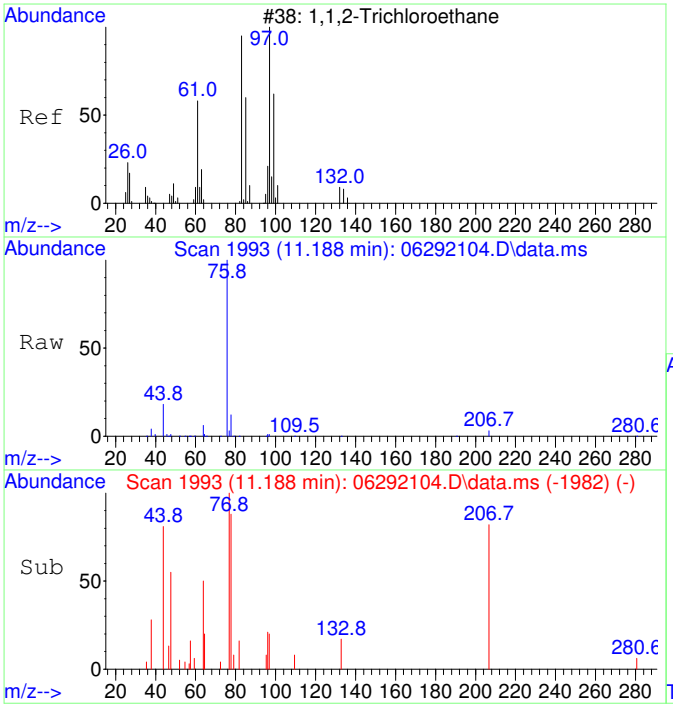


#37
Toluene SCAN
Concen: 87.92 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2323

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.5	86.5#
65	5.6	0.0	40.6

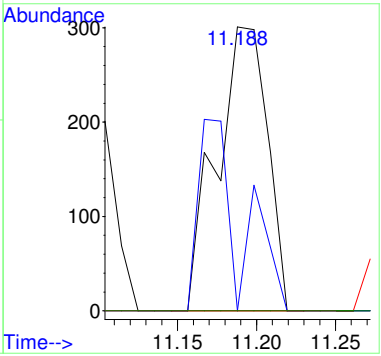


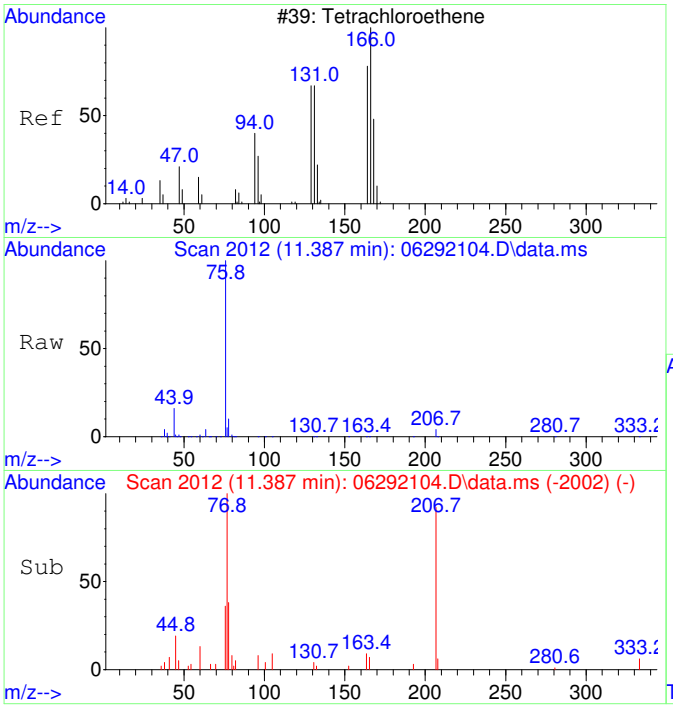


#38
1,1,2-Trichloroethane SCAN
Concen: 107.40 ug/L
RT: 11.188 min Scan# 1993
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 676

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

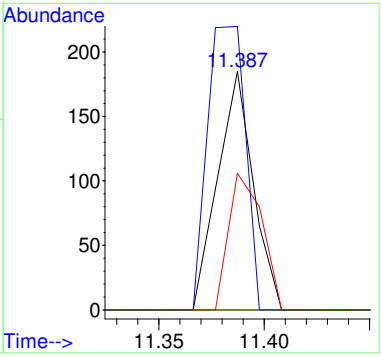


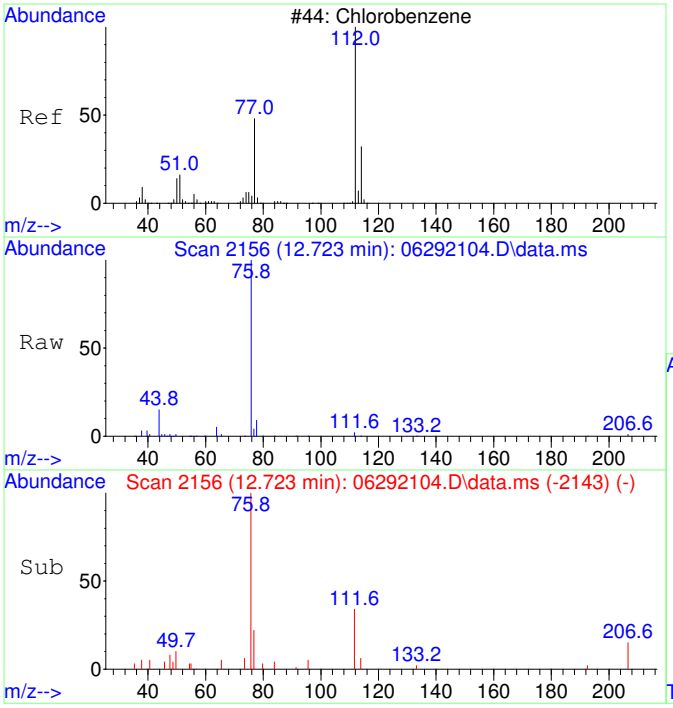


#39
Tetrachloroethene SCAN
Concen: 34.10 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:166 Resp: 217

Ion	Ratio	Lower	Upper
166	100		
164	127.2	53.9	113.9#
131	53.9	45.6	105.6
129	0.0	51.3	111.3#

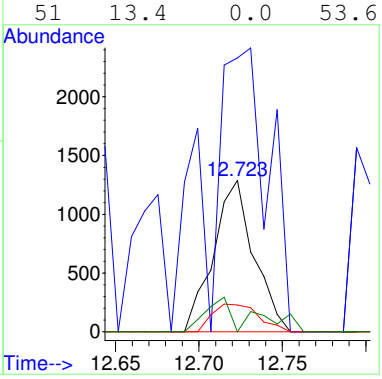


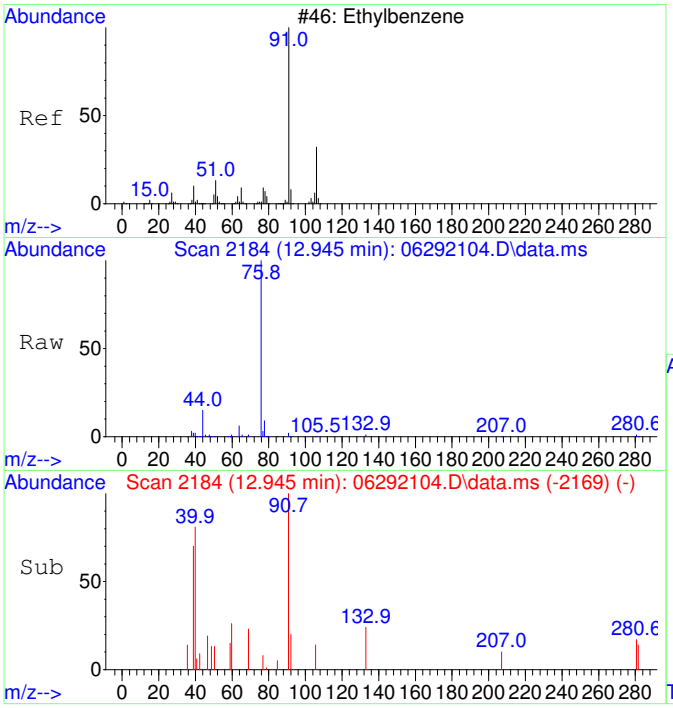


#40
Chlorobenzene SCAN
Concen: 110.32 ug/L
RT: 12.723 min Scan# 2156
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:112 Resp: 2173

Ion	Ratio	Lower	Upper
112	100		
77	214.5	48.5	108.5#
114	20.9	4.9	64.9
51	13.4	0.0	53.6

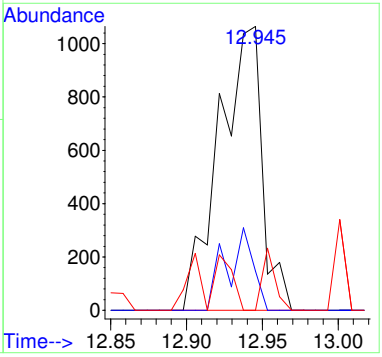


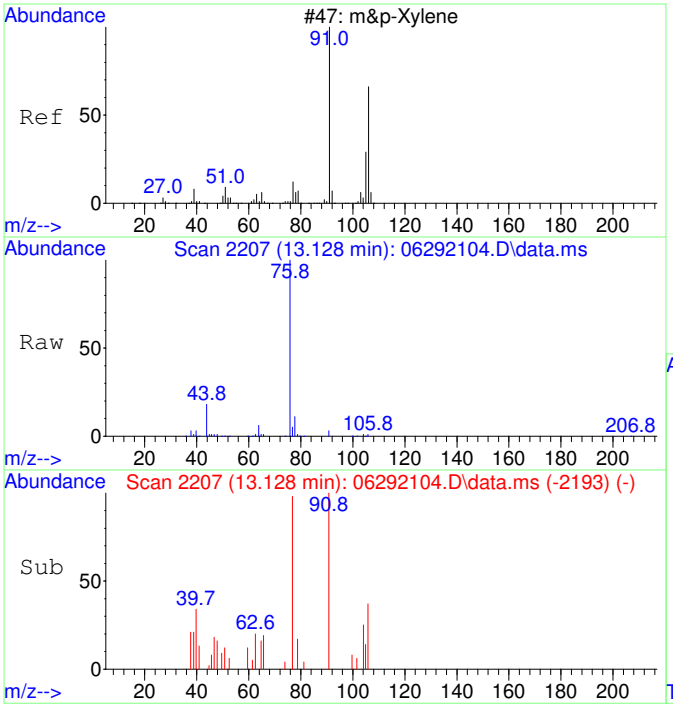


#42
Ethylbenzene SCAN
Concen: 59.65 ug/L
RT: 12.945 min Scan# 2184
Delta R.T. 0.016 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2101

Ion	Ratio	Lower	Upper
91	100		
106	18.0	0.5	60.5
51	6.4	0.0	39.6

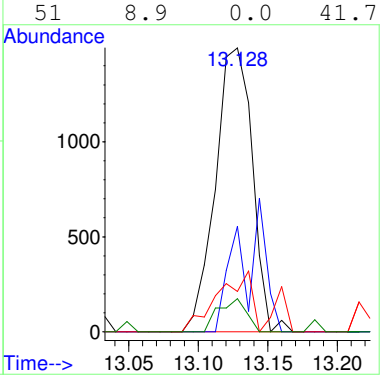


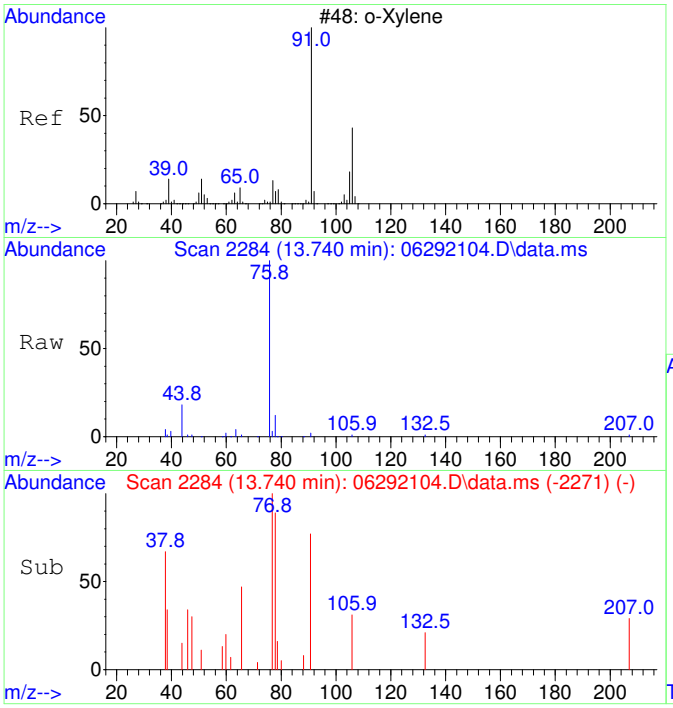


#43
m&p-Xylene SCAN
Concen: 52.54 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2761

Ion	Ratio	Lower	Upper
91	100		
106	14.2	21.2	81.2#
105	15.7	0.0	51.6
51	8.9	0.0	41.7

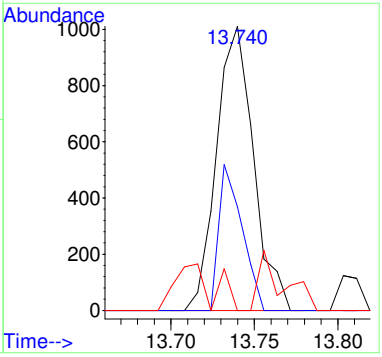


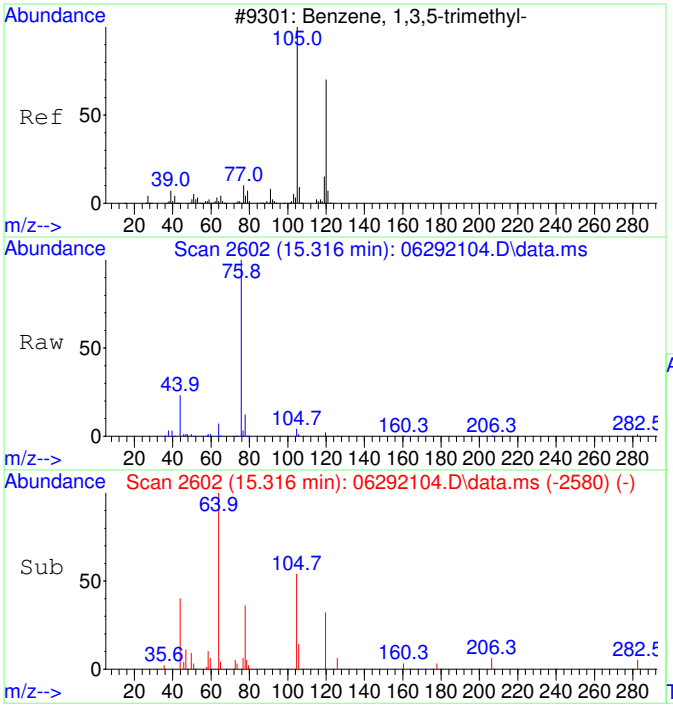


#44
o-Xylene SCAN
Concen: 54.04 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 1562

Ion	Ratio	Lower	Upper
91	100		
106	32.1	19.1	79.1
105	0.0	0.0	55.6

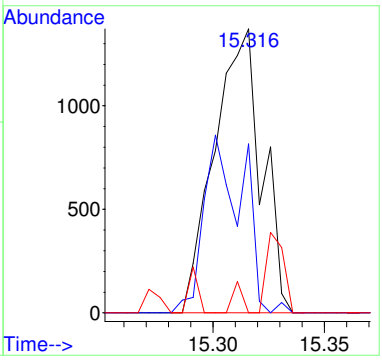


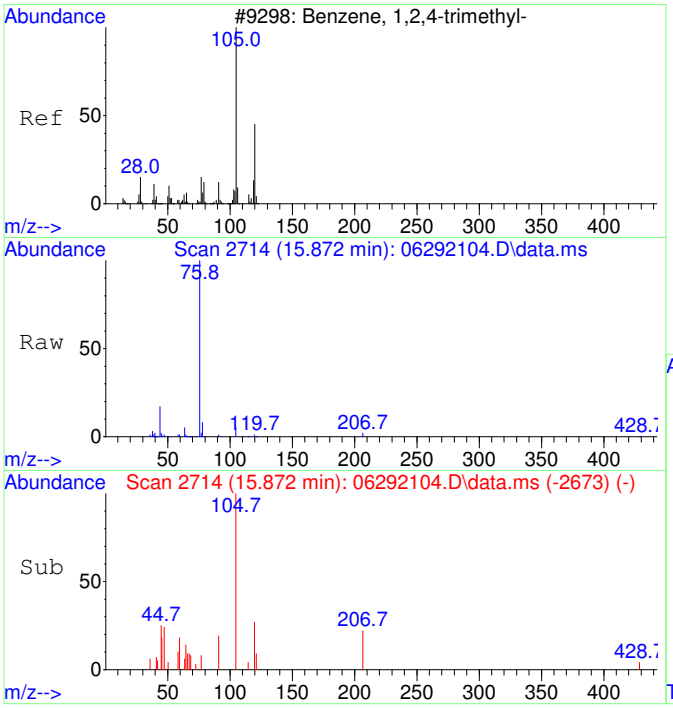


#46
1,3,5-Trimethylbenzene SCAN
Concen: 63.88 ug/L
RT: 15.316 min Scan# 2602
Delta R.T. 0.015 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2027

Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.2	80.2#
119	12.6	0.0	43.8

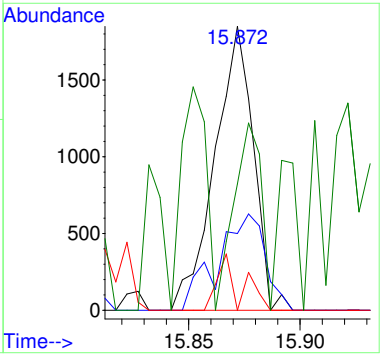


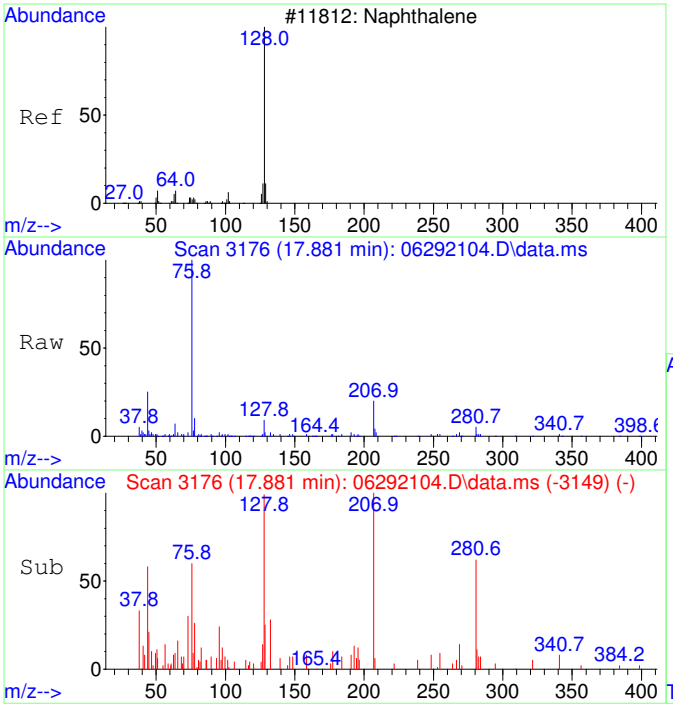


#47
1,2,4-Trimethylbenzene SCAN
Concen: 67.77 ug/L
RT: 15.872 min Scan# 2714
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2227

Ion	Ratio	Lower	Upper
105	100		
120	42.0	15.6	75.6
119	11.9	0.0	38.2
77	46.9	0.0	44.0#

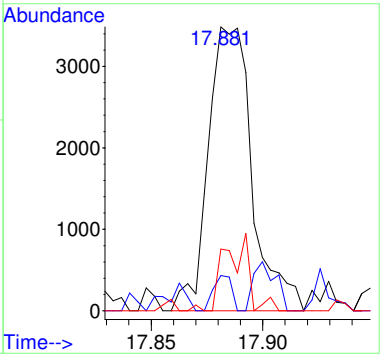




#48
Naphthalene SCAN
Concen: 79.69 ug/L
RT: 17.881 min Scan# 3176
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:128 Resp: 4775

Ion	Ratio	Lower	Upper
128	100		
127	5.1	0.0	41.1
129	0.0	0.0	39.5



B21F080-BLK1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292105.D
Acq On : 29 Jun 2021 10:12
InstName : AG5975C
Operator : TD
Sample : B21F080-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 29 10:33:51 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

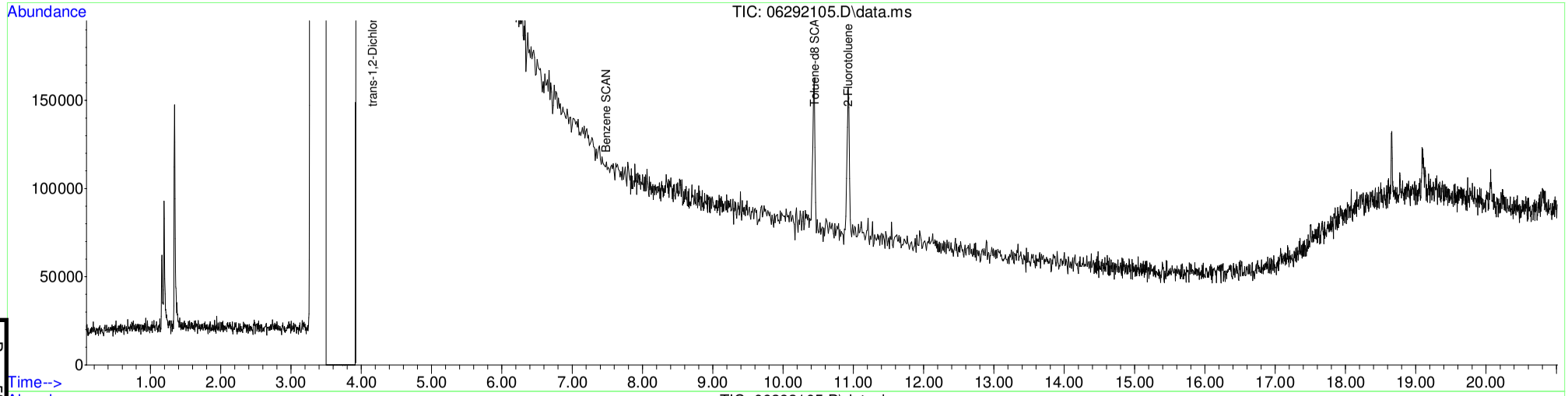
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	129645	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	112381	5060.59 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.21%		
Target Compounds					Qvalue
25) 2-Fluorotoluene SCAN	10.926	109	74802	4687.63 ug/L	98
27) trans-1,2-Dichloroethe...	4.160	61	100	27.43 ug/L #	16
33) Benzene SCAN	7.475	78	2431	198.76 ug/L #	90
36) Toluene-d8 SCAN	10.443	98	66331	4792.61 ug/L	100

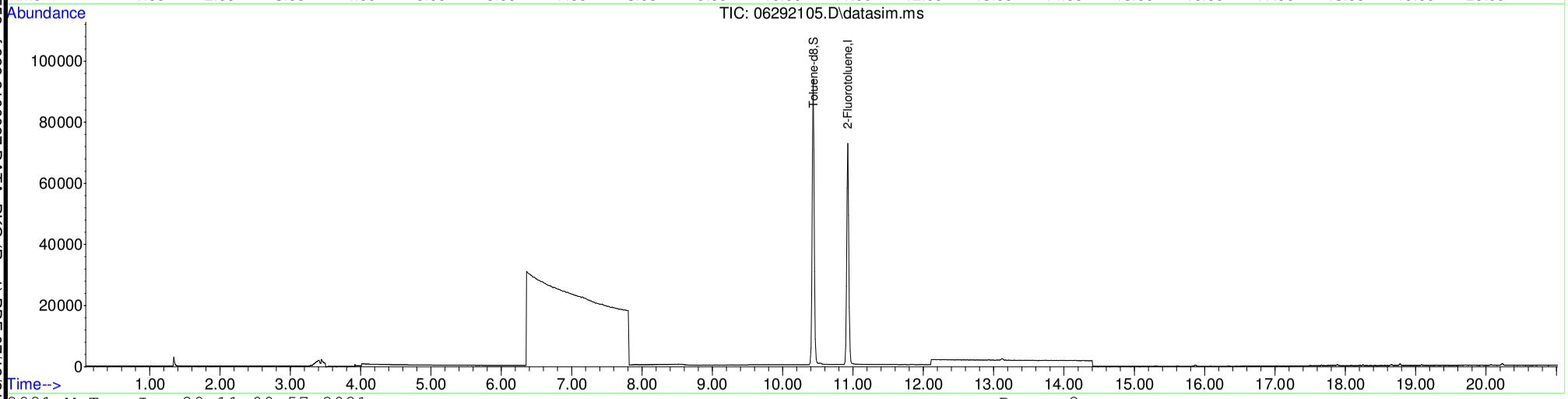
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292105.D
Acq On : 29 Jun 2021 10:12
InstName : AG5975C
Operator : TD
Sample : B21F080-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 29 10:33:51 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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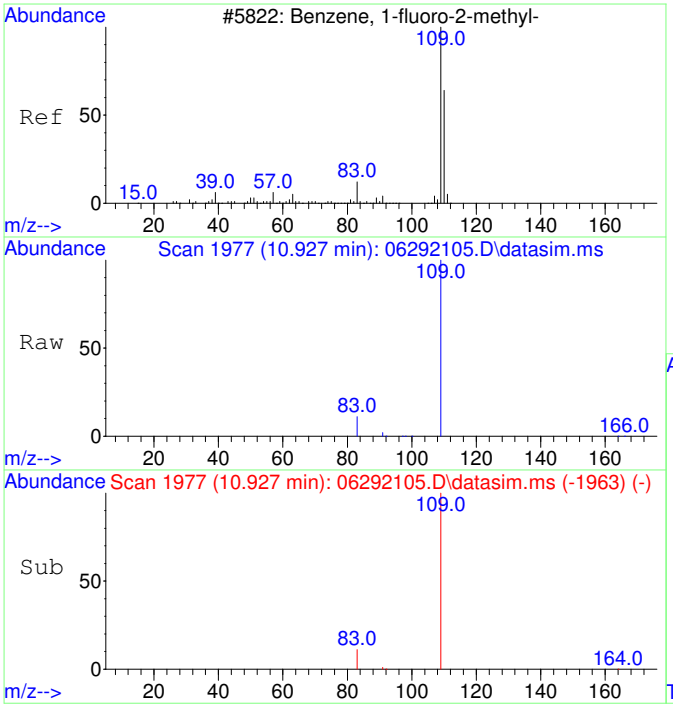
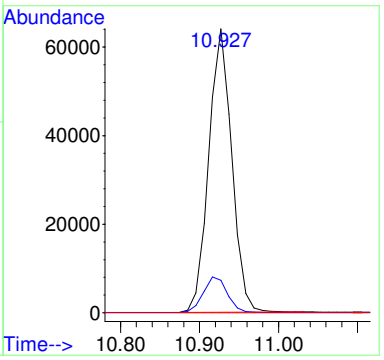
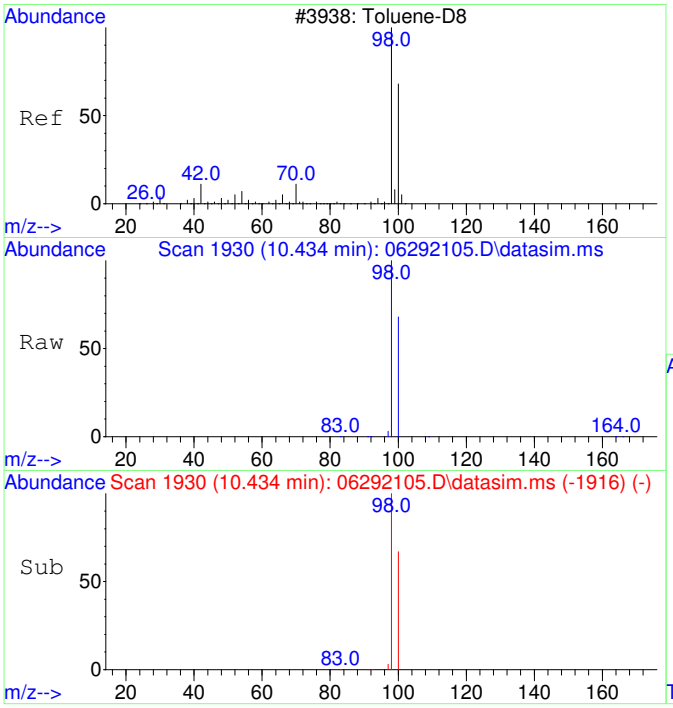


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292105.D
Acq: 29 Jun 2021 10:12

Tgt Ion:109 Resp: 129645

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

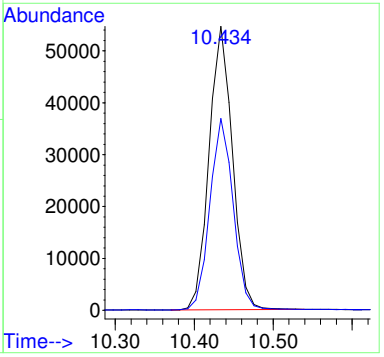


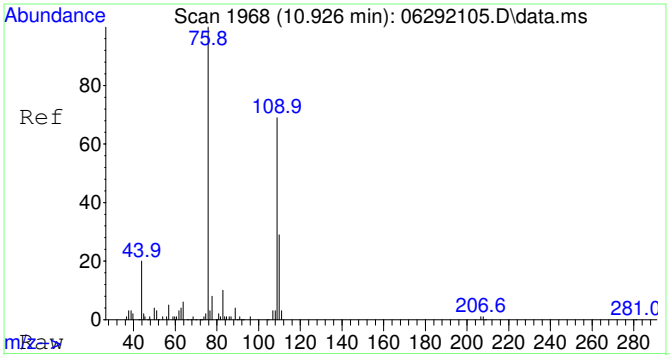


#12
Toluene-d8
Concen: 5060.59 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292105.D
Acq: 29 Jun 2021 10:12

Tgt Ion: 98 Resp: 112381

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.3	97.3

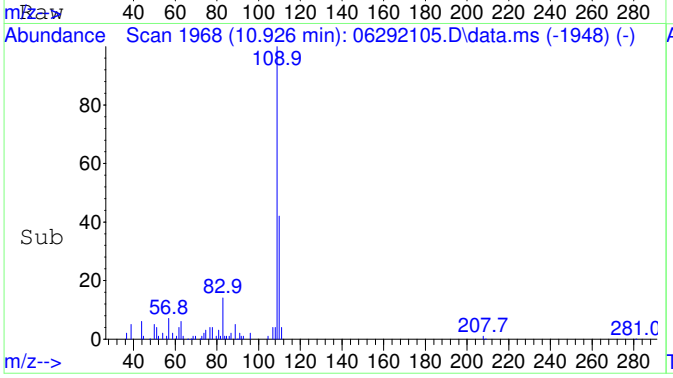


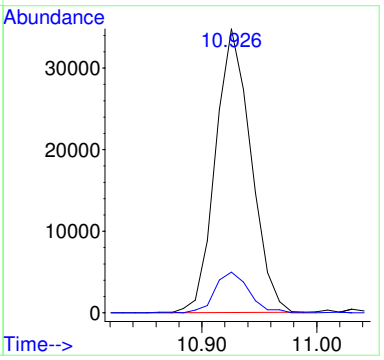


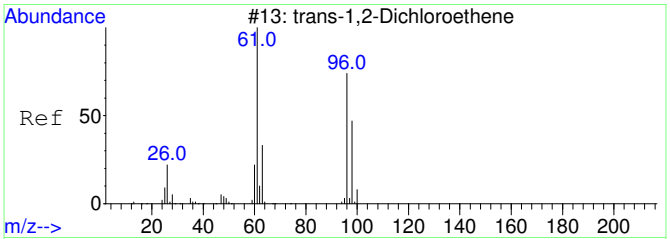
#25
2-Fluorotoluene SCAN
Concen: 4687.63 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292105.D
Acq: 29 Jun 2021 10:12

Tgt Ion:109 Resp: 74802

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	44.5



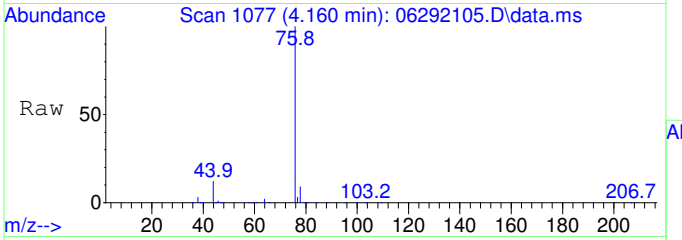


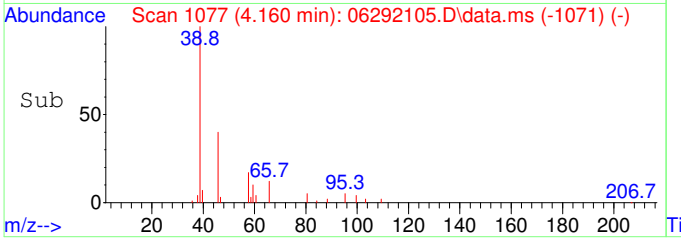


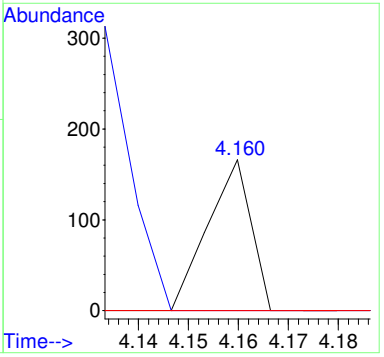
#27
trans-1,2-Dichloroethene SCAN
Concen: 27.43 ug/L
RT: 4.160 min Scan# 1077
Delta R.T. -0.059 min
Lab File: 06292105.D
Acq: 29 Jun 2021 10:12

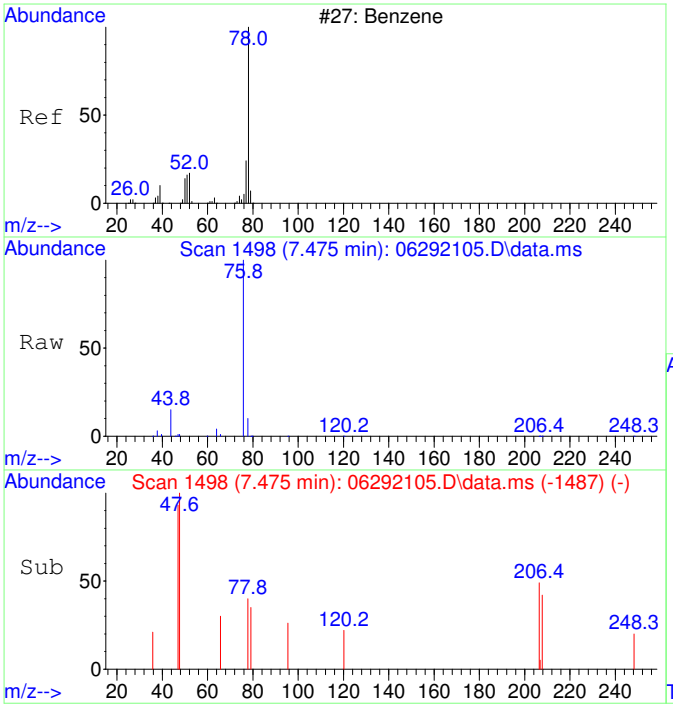
Tgt Ion: 61 Resp: 100

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	109.3#
98	0.0	24.0	84.0#





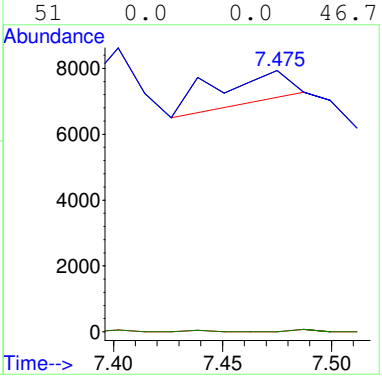


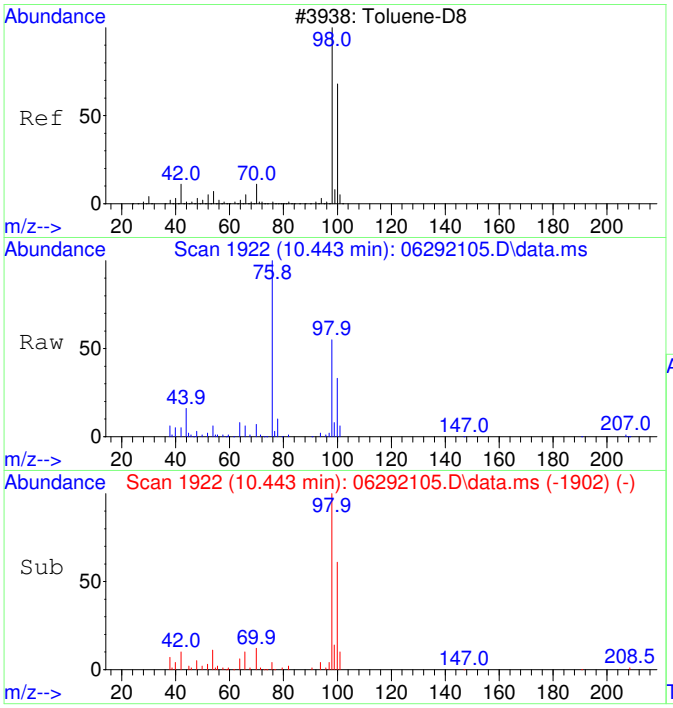


#33
Benzene SCAN
Concen: 198.76 ug/L
RT: 7.475 min Scan# 1498
Delta R.T. 0.037 min
Lab File: 06292105.D
Acq: 29 Jun 2021 10:12

Tgt Ion: 78 Resp: 2431

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

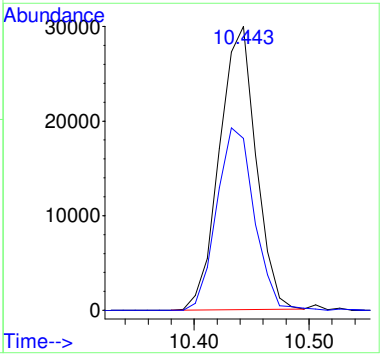




#36
Toluene-d8 SCAN
Concen: 4792.61 ug/L
RT: 10.443 min Scan# 1922
Delta R.T. 0.011 min
Lab File: 06292105.D
Acq: 29 Jun 2021 10:12

Tgt Ion: 98 Resp: 66331

Ion	Ratio	Lower	Upper
98	100		
100	66.2	36.1	96.1



B21F080-BS1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B21F080-BS1
Misc Info: 0
Date Acquired: 6/29/2021
QLast Update: Thu Apr 29 06:45:57 2021
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.927	5000	5000.00	100%	70	130	pass
2)	**1,1-Dichloroethene**	**3.049**	**5000**	**4641.53**	**93%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.214**	**5000**	**4886.79**	**98%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**4.964**	**5000**	**4810.01**	**96%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**5.992**	**5000**	**4882.32**	**98%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.564**	**5000**	**4699.94**	**94%**	**56**	**132**	**pass**
7)	**1,1,1-Trichloroethane**	**6.819**	**5000**	**4990.11**	**100%**	**58**	**131**	pass
8)	Carbon tetrachloride	7.099	5000	5003.42	100%	60	126	pass
9)	Benzene	7.427	5000	4360.60	87%	63	121	pass
10)	1,2-Dichloroethane	7.464	5000	5106.73	102%	57	128	pass
11)	**Trichloroethene**	**8.508**	**5000**	**4921.72**	**98%**	**69**	**124**	**pass**
12)	Toluene-d8	10.433	5000	5100.66	102%	70	130	pass
13)	Toluene	10.528	5000	4660.37	93%	77	111	pass
14)	1,1,2-Trichloroethane	11.179	5000	4875.93	98%	76	115	pass
15)	**Tetrachloroethene**	**11.378**	**5000**	**5003.85**	**100%**	**69**	**124**	**pass**
16)	Chlorobenzene	12.716	5000	3981.74	80%	64	122	pass
17)	1,1,1,2-Tetrachloroethane	12.867	5000	5000.59	100%	68	130	pass
18)	Ethylbenzene	12.923	5000	4951.68	99%	70	130	pass
19)	m&p-Xylene	13.121	10000	9475.33	95%	66	129	pass
20)	o-Xylene	13.733	5000	4510.49	90%	63	121	pass
21)	1,1,2,2-Tetrachloroethane	14.831	5000	4530.88	91%	55	132	pass
22)	1,3,5-Trimethylbenzene	15.302	5000	4869.72	97%	61	140	pass
23)	1,2,4-Trimethylbenzene	15.863	5000	4563.90	91%	54	143	pass
25)	2-Fluorotoluene SCAN	10.915	5000	4994.27	100%	20	110	pass
27)	trans-1,2-Dichloroethene SCAN	4.219	5000	4909.84	98%	83	110	pass
29)	cis-1,2-Dichloroethene SCAN	5.997	5000	3849.54	77%	58	118	pass
31)	1,1,1-Trichloroethane SCAN	6.830	5000	4713.59	94%	59	119	pass
33)	Benzene SCAN	7.438	5000	4592.85	92%	69	129	pass
35)	Trichloroethene SCAN	8.507	5000	5405.48	108%	69	129	pass
37)	Toluene SCAN	10.537	5000	4734.42	95%	66	126	pass
39)	Tetrachloroethene SCAN	11.387	5000	5111.64	102%	59	119	pass
41)	1,1,1,2-Tetrachloroethane SCAN	12.866	5000	4671.69	93%	62	122	pass
43)	m&p-Xylene SCAN	13.120	5000	4487.92	90%	68	128	pass
45)	1,1,2,2-Tetrachloroethane SCAN	14.826	5000	4591.91	92%	63	123	pass
47)	1,2,4-Trimethylbenzene SCAN	15.867	5000	4443.48	89%	20	110	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292106.D
Acq On : 29 Jun 2021 10:39
InstName : AG5975C
Operator : TD
Sample : B21F080-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 29 11:00:14 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

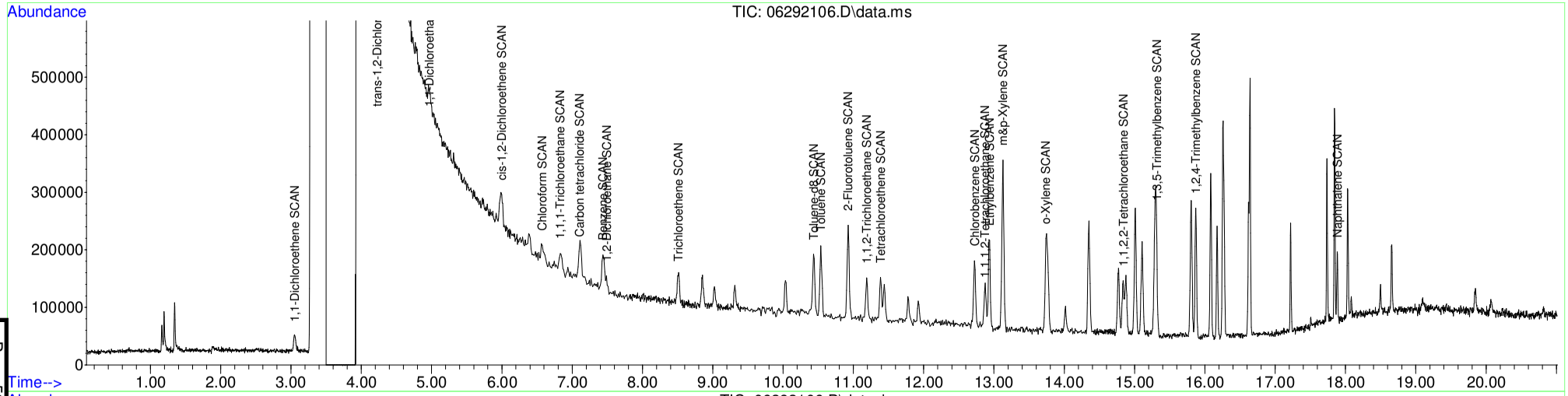
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.926	109	164267	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.433	98	143520	5100.66 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 102.01%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	33209	4641.53 ug/L #	99
3] trans-1,2-Dichloroethene	4.220	61	30090	4886.79 ug/L #	100
4] 1,1-Dichloroethane	4.970	63	40621	4810.01 ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	39507	4882.32 ug/L #	100
6] Chloroform	6.564	83	44759	4699.94 ug/L #	99
7] 1,1,1-Trichloroethane	6.831	97	44218	4990.11 ug/L #	100
8] Carbon tetrachloride	7.099	117	38625	5003.42 ug/L #	100
9] Benzene	7.439	78	116674	4360.60 ug/L #	98
10] 1,2-Dichloroethane	7.476	62	37581	5106.73 ug/L #	100
11] Trichloroethene	8.513	130	35065	4921.72 ug/L	99
13] Toluene	10.528	91	170688	4660.37 ug/L	99
14] 1,1,2-Trichloroethane	11.189	97	37151	4875.93 ug/L #	100
15] Tetrachloroethene	11.388	166	46882	5003.85 ug/L #	100
16] Chlorobenzene	12.724	112	126292	3981.74 ug/L #	98
17] 1,1,1,2-Tetrachloroethane	12.875	131	42203	5000.59 ug/L #	100
18] Ethylbenzene	12.931	91	232913	4951.68 ug/L #	100
19] m&p-Xylene	13.121	91	351103	9475.33 ug/L #	100
20] o-Xylene	13.741	91	180764	4510.49 ug/L #	97
21] 1,1,2,2-Tetrachloroethane	14.834	83	79131	4530.88 ug/L #	100
22] 1,3,5-Trimethylbenzene	15.307	105	229216	4869.72 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	223757	4563.90 ug/L #	99
24] Naphthalene	17.882	128	119646	1306.53 ug/L #	99
25) 2-Fluorotoluene SCAN	10.925	109	100978	4994.27 ug/L	98
26) 1,1-Dichloroethene SCAN	3.055	61	22409	5247.41 ug/L	94
27) trans-1,2-Dichloroethe...	4.219	61	22683	4909.84 ug/L	79
28) 1,1-Dichloroethane SCAN	4.969	63	23476	3791.63 ug/L	89
29) cis-1,2-Dichloroethene...	5.997	61	24046	3849.54 ug/L	83
30) Chloroform SCAN	6.574	83	31774	4809.84 ug/L	86
31) 1,1,1-Trichloroethane ...	6.830	97	29094	4713.59 ug/L	95
32) Carbon tetrachloride SCAN	7.098	117	21489	4219.25 ug/L	96
33) Benzene SCAN	7.438	78	71176	4592.85 ug/L	98
34) 1,2-Dichloroethane SCAN	7.487	62	27597	5648.47 ug/L	86
35) Trichloroethene SCAN	8.507	130	21352	5405.48 ug/L	89
36) Toluene-d8 SCAN	10.432	98	84672	4828.38 ug/L	96
37) Toluene SCAN	10.537	91	107455	4734.42 ug/L	96
38) 1,1,2-Trichloroethane ...	11.188	97	25870	4784.77 ug/L	93
39) Tetrachloroethene SCAN	11.387	166	27938	5111.64 ug/L	88
40) Chlorobenzene SCAN	12.723	112	67867	4011.12 ug/L	99
41) 1,1,1,2-Tetrachloroeth...	12.866	131	23471	4671.69 ug/L	87
42) Ethylbenzene SCAN	12.937	91	139332	4605.19 ug/L	98
43) m&p-Xylene SCAN	13.128	91	202570	4487.92 ug/L	99
44) o-Xylene SCAN	13.739	91	108884	4385.21 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.837	83	55733	4591.91 ug/L	98
46) 1,3,5-Trimethylbenzene...	15.311	105	127485	4677.01 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.872	105	125433	4443.48 ug/L	97
48) Naphthalene SCAN	17.881	128	56879	1105.14 ug/L	97

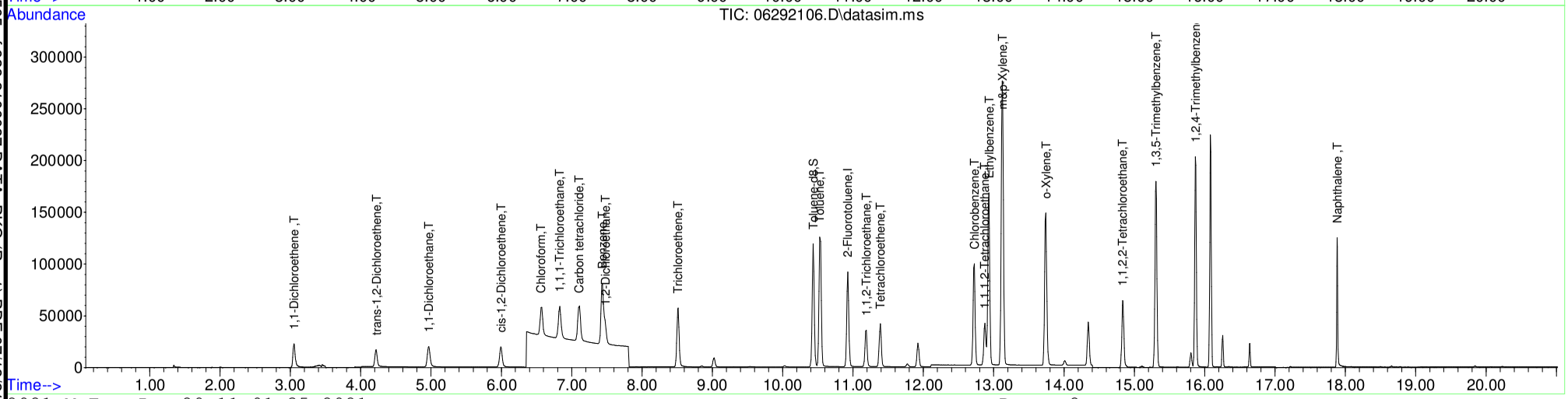
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292106.D
Acq On : 29 Jun 2021 10:39
InstName : AG5975C
Operator : TD
Sample : B21F080-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 29 11:00:14 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292106.D
Acq On : 29 Jun 2021 10:39
InstName : AG5975C
Operator : TD
Sample : B21F080-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 29 11:00:14 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

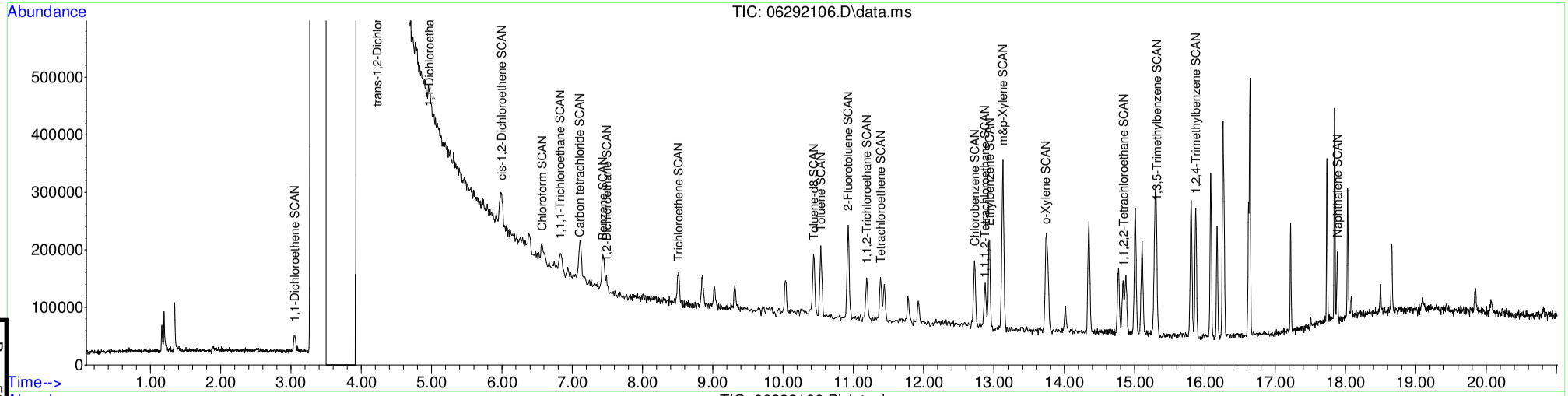
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.926	109	164267	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.433	98	143520	5100.66	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 102.01%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.053	61	33209	4641.53	ug/L #	99
3] trans-1,2-Dichloroethene	4.220	61	30090	4886.79	ug/L #	100
4] 1,1-Dichloroethane	4.970	63	40621	4810.01	ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	39507	4882.32	ug/L #	100
6] Chloroform	6.564	83	44759	4699.94	ug/L #	99
7] 1,1,1-Trichloroethane	6.831	97	44218	4990.11	ug/L #	100
8] Carbon tetrachloride	7.099	117	38625	5003.42	ug/L #	100
9] Benzene	7.439	78	116674	4360.60	ug/L #	98
10] 1,2-Dichloroethane	7.476	62	37581	5106.73	ug/L #	100
11] Trichloroethene	8.513	130	35065	4921.72	ug/L	99
13] Toluene	10.528	91	170688	4660.37	ug/L	99
14] 1,1,2-Trichloroethane	11.189	97	37151	4875.93	ug/L #	100
15] Tetrachloroethene	11.388	166	46882	5003.85	ug/L #	100
16] Chlorobenzene	12.724	112	126292	3981.74	ug/L #	98
17] 1,1,1,2-Tetrachloroethane	12.875	131	42203	5000.59	ug/L #	100
18] Ethylbenzene	12.931	91	232913	4951.68	ug/L #	100
19] m&p-Xylene	13.121	91	351103	9475.33	ug/L #	100
20] o-Xylene	13.741	91	180764	4510.49	ug/L #	97
21] 1,1,2,2-Tetrachloroethane	14.834	83	79131	4530.88	ug/L #	100
22] 1,3,5-Trimethylbenzene	15.307	105	229216	4869.72	ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	223757	4563.90	ug/L #	99
24] Naphthalene	17.882	128	119646	1306.53	ug/L #	99
25) 2-Fluorotoluene SCAN	10.925	109	100978	4994.27	ug/L	98
26) 1,1-Dichloroethene SCAN	3.055	61	22409	5247.41	ug/L	94
27) trans-1,2-Dichloroethe...	4.219	61	22683	4909.84	ug/L	79
28) 1,1-Dichloroethane SCAN	4.969	63	23476	3791.63	ug/L	89
29) cis-1,2-Dichloroethene...	5.997	61	24046	3849.54	ug/L	83
30) Chloroform SCAN	6.574	83	31774	4809.84	ug/L	86
31) 1,1,1-Trichloroethane ...	6.830	97	29094	4713.59	ug/L	95
32) Carbon tetrachloride SCAN	7.098	117	21489	4219.25	ug/L	96
33) Benzene SCAN	7.438	78	71176	4592.85	ug/L	98
34) 1,2-Dichloroethane SCAN	7.487	62	27597	5648.47	ug/L	86
35) Trichloroethene SCAN	8.507	130	21352	5405.48	ug/L	89
36) Toluene-d8 SCAN	10.432	98	84672	4828.38	ug/L	96
37) Toluene SCAN	10.537	91	107455	4734.42	ug/L	96
38) 1,1,2-Trichloroethane ...	11.188	97	25870	4784.77	ug/L	93
39) Tetrachloroethene SCAN	11.387	166	27938	5111.64	ug/L	88
40) Chlorobenzene SCAN	12.723	112	67867	4011.12	ug/L	99
41) 1,1,1,2-Tetrachloroeth...	12.866	131	23471	4671.69	ug/L	87
42) Ethylbenzene SCAN	12.937	91	139332	4605.19	ug/L	98
43) m&p-Xylene SCAN	13.128	91	202570	4487.92	ug/L	99
44) o-Xylene SCAN	13.739	91	108884	4385.21	ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.837	83	55733	4591.91	ug/L	98
46) 1,3,5-Trimethylbenzene...	15.311	105	127485	4677.01	ug/L	100
47) 1,2,4-Trimethylbenzene...	15.872	105	125433	4443.48	ug/L	97
48) Naphthalene SCAN	17.881	128	56879	1105.14	ug/L	97

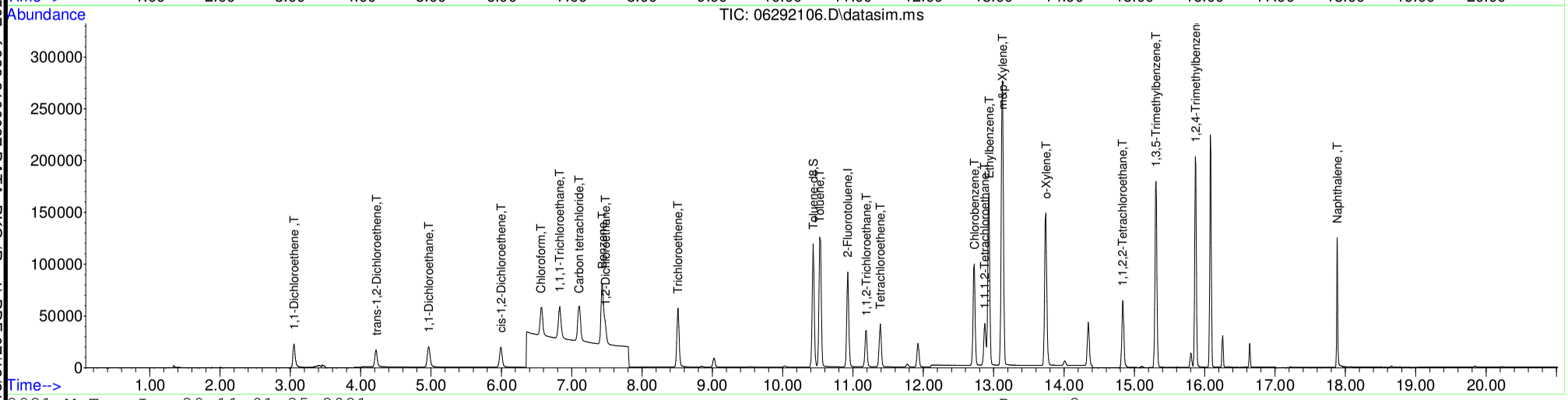
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292106.D
Acq On : 29 Jun 2021 10:39
InstName : AG5975C
Operator : TD
Sample : B21F080-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 29 11:00:14 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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B21F080-BSD1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B21F080-BSD1
Misc Info: 0
Date Acquired: 6/29/2021
QLast Update: Thu Apr 29 06:45:57 2021
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.927	5000	5000.00	100%	70	130	pass
2)	**1,1-Dichloroethene**	**3.049**	**5000**	**4571.30**	**91%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.214**	**5000**	**4871.67**	**97%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**4.964**	**5000**	**4832.03**	**97%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**5.992**	**5000**	**4917.98**	**98%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.564**	**5000**	**4743.49**	**95%**	**56**	**132**	**pass**
7)	**1,1,1-Trichloroethane**	**6.819**	**5000**	**5033.88**	**101%**	**58**	**131**	pass
8)	Carbon tetrachloride	7.099	5000	5063.07	101%	60	126	pass
9)	Benzene	7.427	5000	4365.62	87%	63	121	pass
10)	1,2-Dichloroethane	7.464	5000	5099.60	102%	57	128	pass
11)	**Trichloroethene**	**8.508**	**5000**	**4988.84**	**100%**	**69**	**124**	**pass**
12)	Toluene-d8	10.433	5000	5079.42	102%	70	130	pass
13)	Toluene	10.528	5000	4613.88	92%	77	111	pass
14)	1,1,2-Trichloroethane	11.179	5000	4913.04	98%	76	115	pass
15)	**Tetrachloroethene**	**11.378**	**5000**	**5004.12**	**100%**	**69**	**124**	**pass**
16)	Chlorobenzene	12.716	5000	3957.16	79%	64	122	pass
17)	1,1,1,2-Tetrachloroethane	12.867	5000	5041.06	101%	68	130	pass
18)	Ethylbenzene	12.923	5000	4892.26	98%	70	130	pass
19)	m&p-Xylene	13.121	10000	9324.01	93%	66	129	pass
20)	o-Xylene	13.733	5000	4463.33	89%	63	121	pass
21)	1,1,2,2-Tetrachloroethane	14.831	5000	4494.49	90%	55	132	pass
22)	1,3,5-Trimethylbenzene	15.302	5000	4823.93	96%	61	140	pass
23)	1,2,4-Trimethylbenzene	15.863	5000	4516.59	90%	54	143	pass
25)	2-Fluorotoluene SCAN	10.915	5000	4880.33	98%	20	110	pass
27)	trans-1,2-Dichloroethene SCAN	4.219	5000	4374.32	87%	83	110	pass
29)	cis-1,2-Dichloroethene SCAN	5.997	5000	4289.12	86%	58	118	pass
31)	1,1,1-Trichloroethane SCAN	6.830	5000	4631.38	93%	59	119	pass
33)	Benzene SCAN	7.438	5000	4899.15	98%	69	129	pass
35)	Trichloroethene SCAN	8.507	5000	5162.07	103%	69	129	pass
37)	Toluene SCAN	10.537	5000	4536.82	91%	66	126	pass
39)	Tetrachloroethene SCAN	11.387	5000	4413.19	88%	59	119	pass
41)	1,1,1,2-Tetrachloroethane SCAN	12.866	5000	4930.57	99%	62	122	pass
43)	m&p-Xylene SCAN	13.120	5000	4613.43	92%	68	128	pass
45)	1,1,2,2-Tetrachloroethane SCAN	14.826	5000	4170.63	83%	63	123	pass
47)	1,2,4-Trimethylbenzene SCAN	15.867	5000	4296.66	86%	20	110	pass

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292107.D
Acq On : 29 Jun 2021 11:05
InstName : AG5975C
Operator : TD
Sample : B21F080-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 29 11:28:48 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

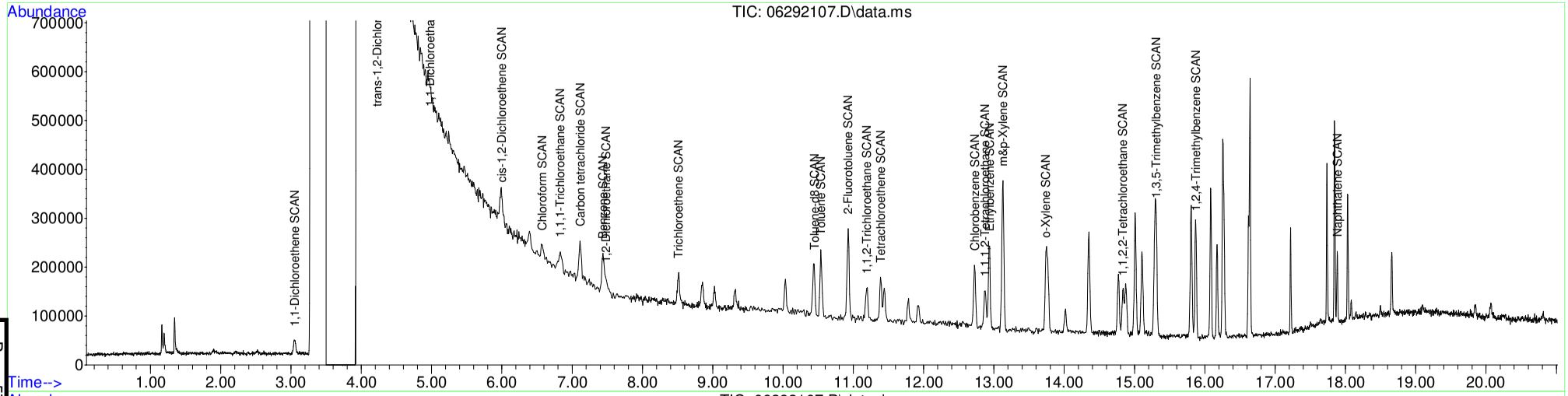
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	183686	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	159818	5079.42	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.59%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.049	61	36573	4571.30	ug/L #	99
3] trans-1,2-Dichloroethene	4.221	61	33543	4871.67	ug/L #	100
4] 1,1-Dichloroethane	4.970	63	45631	4832.03	ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	44500	4917.98	ug/L #	100
6] Chloroform	6.576	83	50514	4743.49	ug/L #	99
7] 1,1,1-Trichloroethane	6.832	97	49879	5033.88	ug/L #	100
8] Carbon tetrachloride	7.099	117	43706	5063.07	ug/L #	100
9] Benzene	7.440	78	130617	4365.62	ug/L #	98
10] 1,2-Dichloroethane	7.476	62	41965	5099.60	ug/L #	99
11] Trichloroethene	8.514	130	39745	4988.84	ug/L	99
13] Toluene	10.528	91	188962	4613.88	ug/L	100
14] 1,1,2-Trichloroethane	11.189	97	41859	4913.04	ug/L #	100
15] Tetrachloroethene	11.389	166	52427	5004.12	ug/L #	100
16] Chlorobenzene	12.724	112	140350	3957.16	ug/L #	99
17] 1,1,1,2-Tetrachloroethane	12.875	131	47574	5041.06	ug/L #	99
18] Ethylbenzene	12.931	91	257322	4892.26	ug/L #	100
19] m&p-Xylene	13.122	91	386339	9324.01	ug/L #	99
20] o-Xylene	13.741	91	200020	4463.33	ug/L #	97
21] 1,1,2,2-Tetrachloroethane	14.835	83	87775	4494.49	ug/L #	100
22] 1,3,5-Trimethylbenzene	15.307	105	253903	4823.93	ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	247615	4516.59	ug/L #	99
24] Naphthalene	17.883	128	141653	1383.31	ug/L #	100
25) 2-Fluorotoluene SCAN	10.926	109	110339	4880.33	ug/L	99
26) 1,1-Dichloroethene SCAN	3.052	61	24042	5034.62	ug/L	92
27) trans-1,2-Dichloroethe...	4.226	61	22598	4374.32	ug/L	90
28) 1,1-Dichloroethane SCAN	4.976	63	31946	4614.16	ug/L	96
29) cis-1,2-Dichloroethene...	5.998	61	29959	4289.12	ug/L #	98
30) Chloroform SCAN	6.575	83	31760	4299.45	ug/L	89
31) 1,1,1-Trichloroethane ...	6.830	97	31966	4631.38	ug/L	88
32) Carbon tetrachloride SCAN	7.110	117	27792	4879.92	ug/L	86
33) Benzene SCAN	7.439	78	84898	4899.15	ug/L	100
34) 1,2-Dichloroethane SCAN	7.475	62	26915	4926.49	ug/L	76
35) Trichloroethene SCAN	8.512	130	22801	5162.07	ug/L	78
36) Toluene-d8 SCAN	10.443	98	89776	4578.21	ug/L	99
37) Toluene SCAN	10.537	91	115143	4536.82	ug/L	96
38) 1,1,2-Trichloroethane ...	11.188	97	25144	4158.85	ug/L	88
39) Tetrachloroethene SCAN	11.387	166	26972	4413.19	ug/L	93
40) Chlorobenzene SCAN	12.723	112	82183	4343.73	ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.874	131	27700	4930.57	ug/L	95
42) Ethylbenzene SCAN	12.938	91	152837	4517.52	ug/L	96
43) m&p-Xylene SCAN	13.128	91	232852	4613.43	ug/L	97
44) o-Xylene SCAN	13.740	91	114858	4136.77	ug/L	99
45) 1,1,2,2-Tetrachloroeth...	14.833	83	56604	4170.63	ug/L	94
46) 1,3,5-Trimethylbenzene...	15.306	105	142626	4679.31	ug/L	97
47) 1,2,4-Trimethylbenzene...	15.872	105	135627	4296.66	ug/L	98
48) Naphthalene SCAN	17.881	128	71849	1248.42	ug/L	93

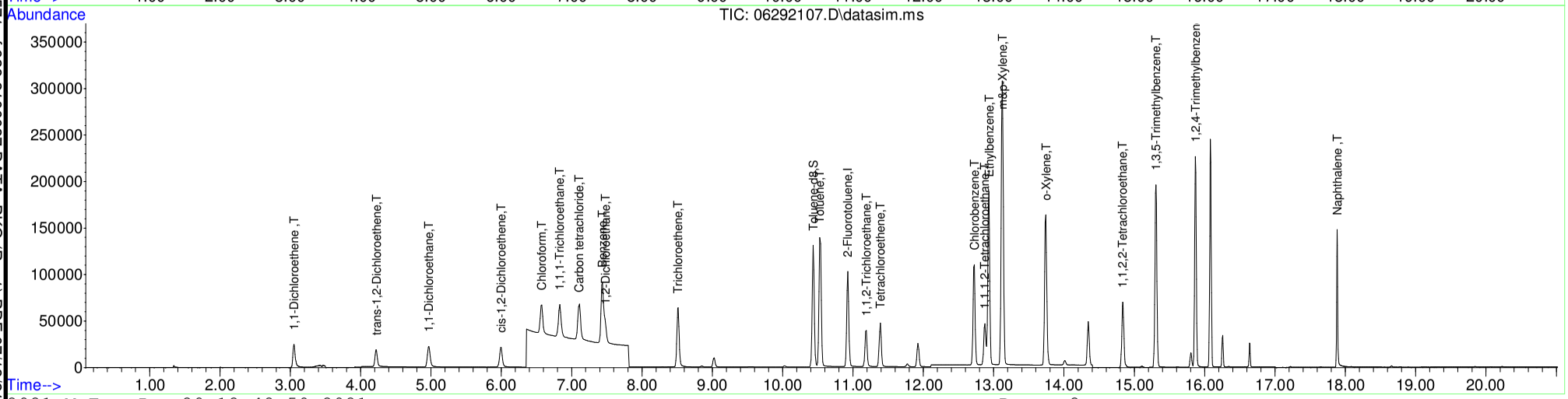
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292107.D
Acq On : 29 Jun 2021 11:05
InstName : AG5975C
Operator : TD
Sample : B21F080-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 29 11:28:48 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292107.D
Acq On : 29 Jun 2021 11:05
InstName : AG5975C
Operator : TD
Sample : B21F080-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 29 11:28:48 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

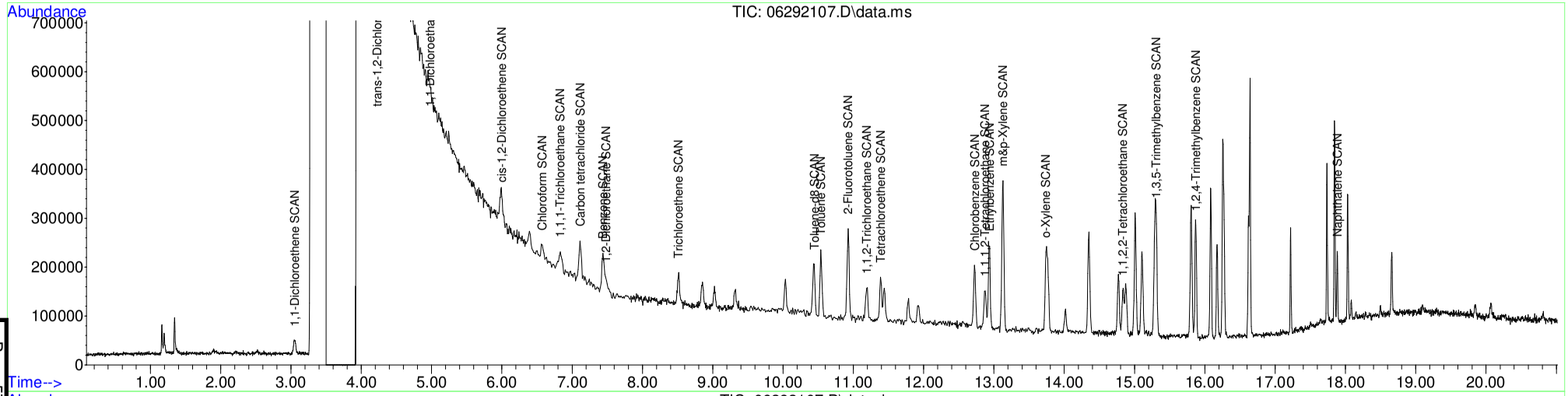
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	183686	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	159818	5079.42	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.59%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.049	61	36573	4571.30	ug/L #	99
3] trans-1,2-Dichloroethene	4.221	61	33543	4871.67	ug/L #	100
4] 1,1-Dichloroethane	4.970	63	45631	4832.03	ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	44500	4917.98	ug/L #	100
6] Chloroform	6.576	83	50514	4743.49	ug/L #	99
7] 1,1,1-Trichloroethane	6.832	97	49879	5033.88	ug/L #	100
8] Carbon tetrachloride	7.099	117	43706	5063.07	ug/L #	100
9] Benzene	7.440	78	130617	4365.62	ug/L #	98
10] 1,2-Dichloroethane	7.476	62	41965	5099.60	ug/L #	99
11] Trichloroethene	8.514	130	39745	4988.84	ug/L	99
13] Toluene	10.528	91	188962	4613.88	ug/L	100
14] 1,1,2-Trichloroethane	11.189	97	41859	4913.04	ug/L #	100
15] Tetrachloroethene	11.389	166	52427	5004.12	ug/L #	100
16] Chlorobenzene	12.724	112	140350	3957.16	ug/L #	99
17] 1,1,1,2-Tetrachloroethane	12.875	131	47574	5041.06	ug/L #	99
18] Ethylbenzene	12.931	91	257322	4892.26	ug/L #	100
19] m&p-Xylene	13.122	91	386339	9324.01	ug/L #	99
20] o-Xylene	13.741	91	200020	4463.33	ug/L #	97
21] 1,1,2,2-Tetrachloroethane	14.835	83	87775	4494.49	ug/L #	100
22] 1,3,5-Trimethylbenzene	15.307	105	253903	4823.93	ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	247615	4516.59	ug/L #	99
24] Naphthalene	17.883	128	141653	1383.31	ug/L #	100
25) 2-Fluorotoluene SCAN	10.926	109	110339	4880.33	ug/L	99
26) 1,1-Dichloroethene SCAN	3.052	61	24042	5034.62	ug/L	92
27) trans-1,2-Dichloroethe...	4.226	61	22598	4374.32	ug/L	90
28) 1,1-Dichloroethane SCAN	4.976	63	31946	4614.16	ug/L	96
29) cis-1,2-Dichloroethene...	5.998	61	29959	4289.12	ug/L #	98
30) Chloroform SCAN	6.575	83	31760	4299.45	ug/L	89
31) 1,1,1-Trichloroethane ...	6.830	97	31966	4631.38	ug/L	88
32) Carbon tetrachloride SCAN	7.110	117	27792	4879.92	ug/L	86
33) Benzene SCAN	7.439	78	84898	4899.15	ug/L	100
34) 1,2-Dichloroethane SCAN	7.475	62	26915	4926.49	ug/L	76
35) Trichloroethene SCAN	8.512	130	22801	5162.07	ug/L	78
36) Toluene-d8 SCAN	10.443	98	89776	4578.21	ug/L	99
37) Toluene SCAN	10.537	91	115143	4536.82	ug/L	96
38) 1,1,2-Trichloroethane ...	11.188	97	25144	4158.85	ug/L	88
39) Tetrachloroethene SCAN	11.387	166	26972	4413.19	ug/L	93
40) Chlorobenzene SCAN	12.723	112	82183	4343.73	ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.874	131	27700	4930.57	ug/L	95
42) Ethylbenzene SCAN	12.938	91	152837	4517.52	ug/L	96
43) m&p-Xylene SCAN	13.128	91	232852	4613.43	ug/L	97
44) o-Xylene SCAN	13.740	91	114858	4136.77	ug/L	99
45) 1,1,2,2-Tetrachloroeth...	14.833	83	56604	4170.63	ug/L	94
46) 1,3,5-Trimethylbenzene...	15.306	105	142626	4679.31	ug/L	97
47) 1,2,4-Trimethylbenzene...	15.872	105	135627	4296.66	ug/L	98
48) Naphthalene SCAN	17.881	128	71849	1248.42	ug/L	93

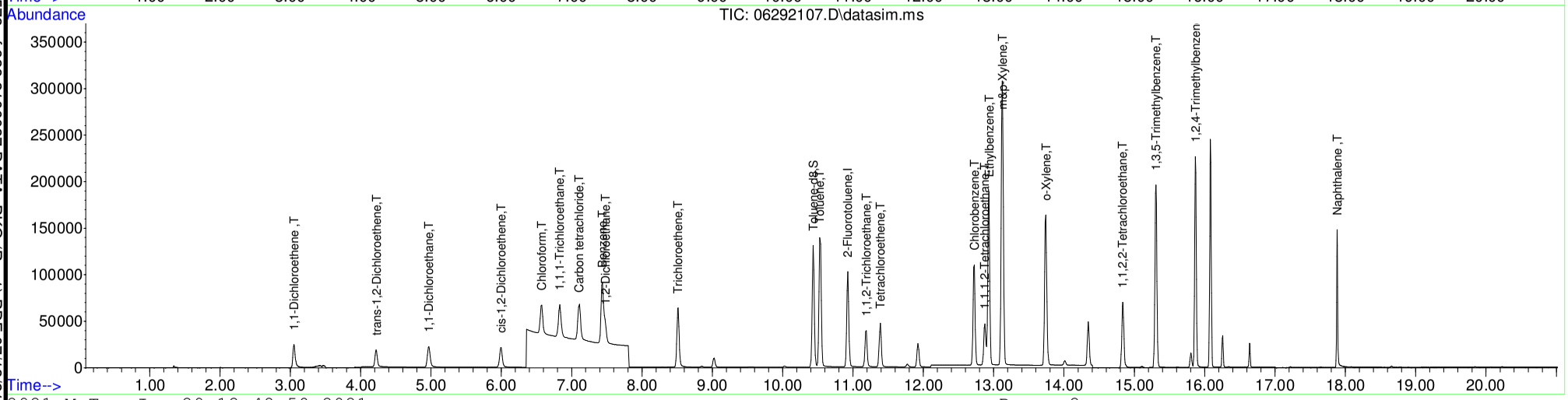
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292107.D
Acq On : 29 Jun 2021 11:05
InstName : AG5975C
Operator : TD
Sample : B21F080-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 29 11:28:48 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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B21F080-MRL1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292108.D
Acq On : 29 Jun 2021 11:31
InstName : AG5975C
Operator : TD
Sample : B21F080-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 29 11:53:07 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

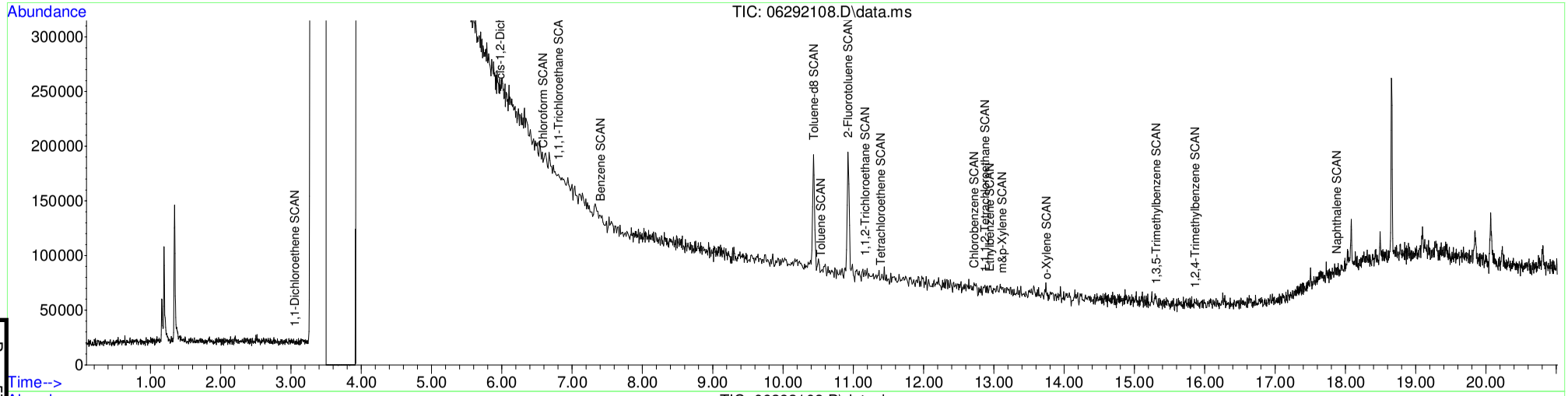
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	152864	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	132887	5075.06	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.50%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.050	61	336	50.46	ug/L #	90
3] trans-1,2-Dichloroethene	4.214	61	307	53.58	ug/L #	80
4] 1,1-Dichloroethane	4.971	63	417	53.06	ug/L #	63
5] cis-1,2-Dichloroethene	5.992	61	421	55.91	ug/L #	97
6] Chloroform	6.564	83	467	52.70	ug/L #	85
7] 1,1,1-Trichloroethane	6.832	97	479	58.09	ug/L #	93
8] Carbon tetrachloride	7.099	117	399	55.54	ug/L #	96
9] Benzene	7.428	78	1420	57.03	ug/L #	1
10] 1,2-Dichloroethane	7.476	62	385	56.22	ug/L #	43
11] Trichloroethene	8.514	130	368	55.51	ug/L #	87
13] Toluene	10.528	91	2046	60.03	ug/L	98
14] 1,1,2-Trichloroethane	11.189	97	402	56.70	ug/L #	90
15] Tetrachloroethene	11.389	166	499	57.23	ug/L #	90
16] Chlorobenzene	12.725	112	1404	47.57	ug/L #	48
17] 1,1,1,2-Tetrachloroethane	12.875	131	459	58.44	ug/L #	89
18] Ethylbenzene	12.931	91	2824	64.52	ug/L #	95
19] m&p-Xylene	13.122	91	4570	132.53	ug/L #	95
20] o-Xylene	13.741	91	2231	59.82	ug/L #	90
21] 1,1,2,2-Tetrachloroethane	14.839	83	876	53.90	ug/L #	99
22] 1,3,5-Trimethylbenzene	15.304	105	2894	66.07	ug/L #	99
23] 1,2,4-Trimethylbenzene	15.870	105	3345	73.32	ug/L #	98
24] Naphthalene	17.884	128	2112	24.78	ug/L #	95
25) 2-Fluorotoluene SCAN	10.926	109	94103	5001.43	ug/L	96
26) 1,1-Dichloroethene SCAN	3.059	61	101	25.41	ug/L #	52
29) cis-1,2-Dichloroethene...	5.971	61	238	40.94	ug/L #	7
30) Chloroform SCAN	6.587	83	219	35.62	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.806	97	497	86.53	ug/L #	28
33) Benzene SCAN	7.402	78	3608	250.18	ug/L #	90
36) Toluene-d8 SCAN	10.432	98	80898	4957.29	ug/L	98
37) Toluene SCAN	10.537	91	931	44.08	ug/L #	55
38) 1,1,2-Trichloroethane ...	11.167	97	285	56.64	ug/L #	2
39) Tetrachloroethene SCAN	11.387	166	441	86.71	ug/L #	62
40) Chlorobenzene SCAN	12.715	112	940	59.70	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.866	131	115	24.60	ug/L #	28
42) Ethylbenzene SCAN	12.938	91	1799	63.90	ug/L	83
43) m&p-Xylene SCAN	13.120	91	3081	73.35	ug/L	74
44) o-Xylene SCAN	13.748	91	1616	69.94	ug/L #	58
46) 1,3,5-Trimethylbenzene...	15.303	105	1947	76.76	ug/L #	77
47) 1,2,4-Trimethylbenzene...	15.864	105	1602	60.98	ug/L #	36
48) Naphthalene SCAN	17.879	128	1291	26.95	ug/L #	82

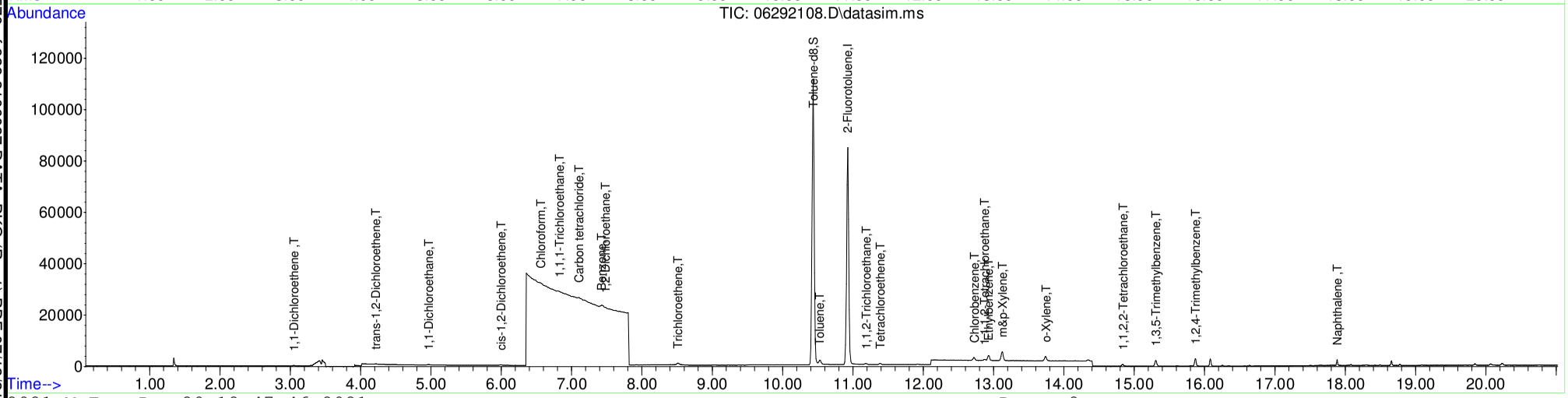
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292108.D
Acq On : 29 Jun 2021 11:31
InstName : AG5975C
Operator : TD
Sample : B21F080-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 29 11:53:07 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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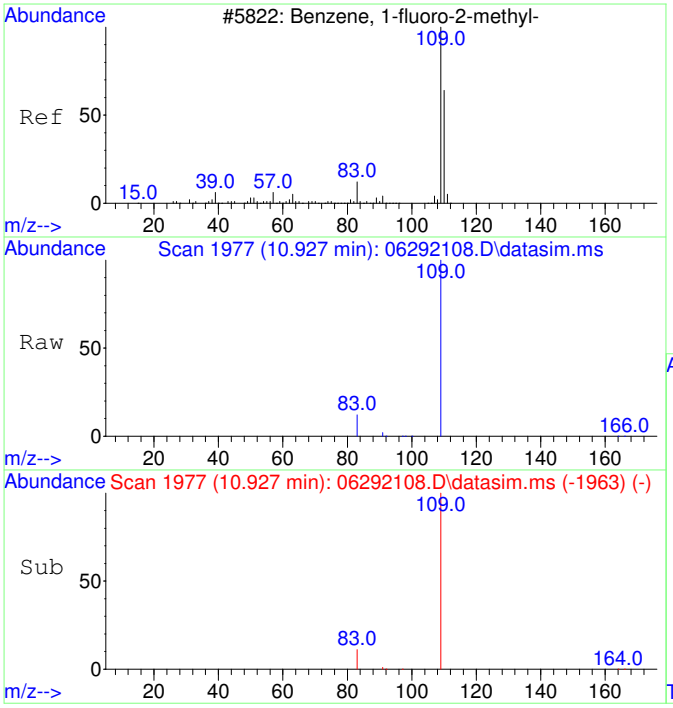
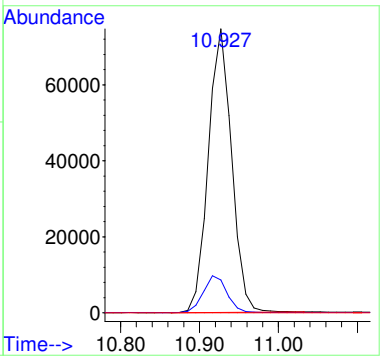
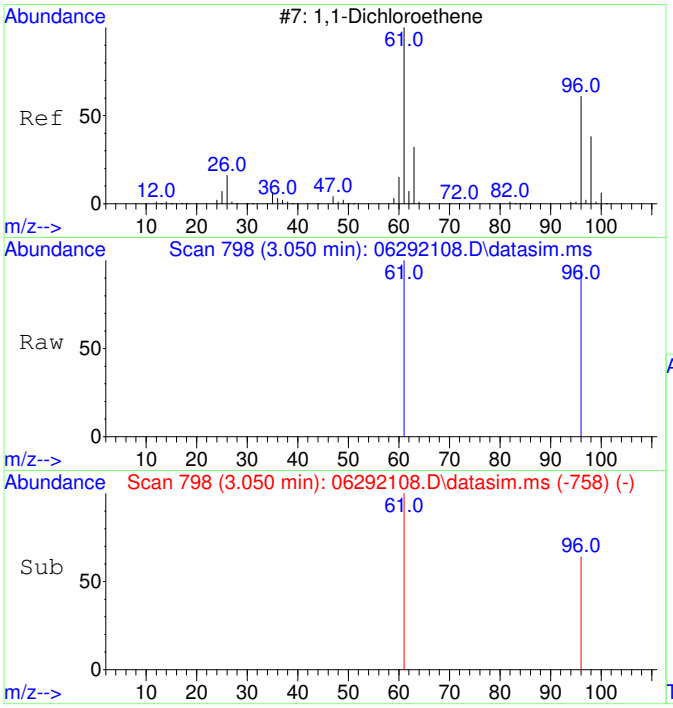


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:109 Resp: 152864

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

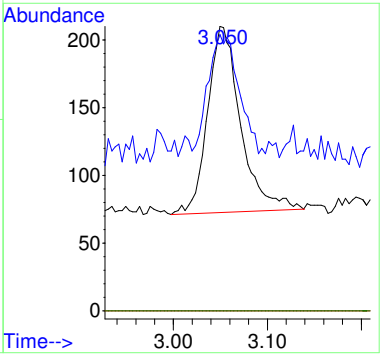


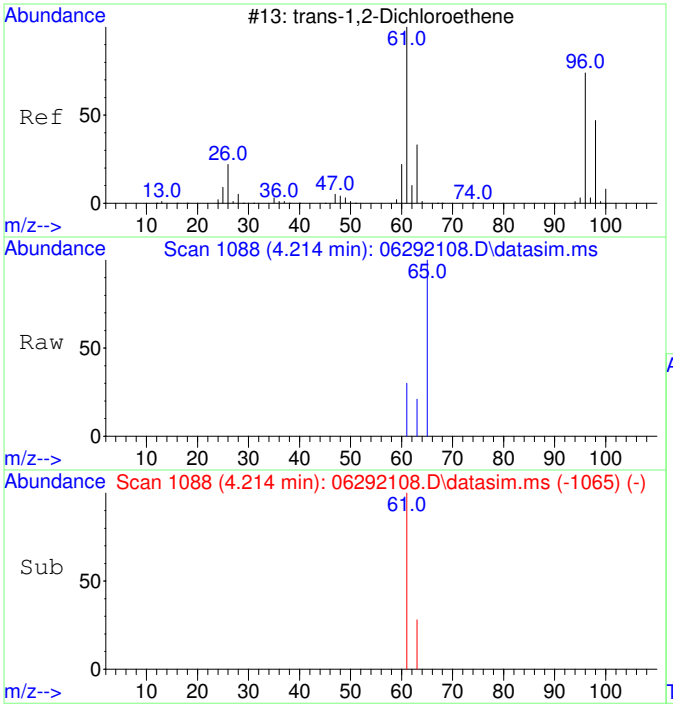


#2
1,1-Dichloroethene
Concen: 50.46 ug/L
RT: 3.050 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 61 Resp: 336

Ion	Ratio	Lower	Upper
61	100		
96	57.1	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

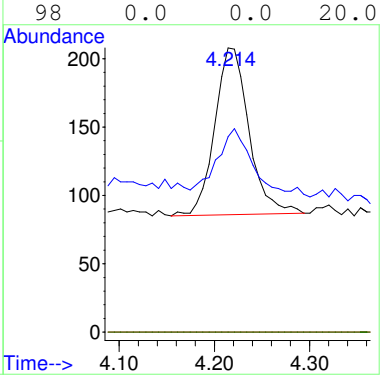


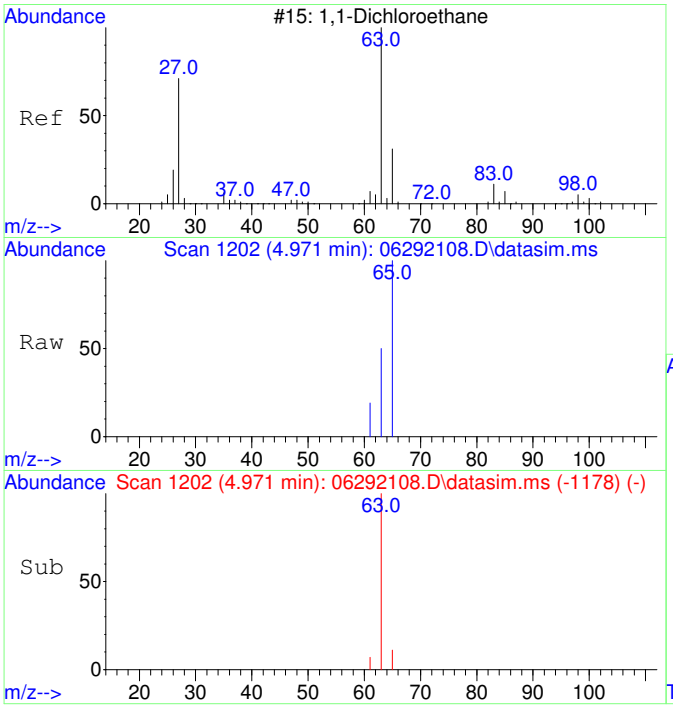


#3
trans-1,2-Dichloroethene
Concen: 53.58 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 61 Resp: 307

Ion	Ratio	Lower	Upper
61	100		
63	44.0	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

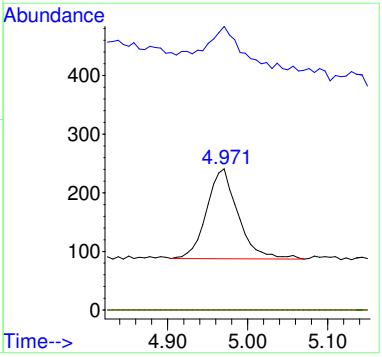


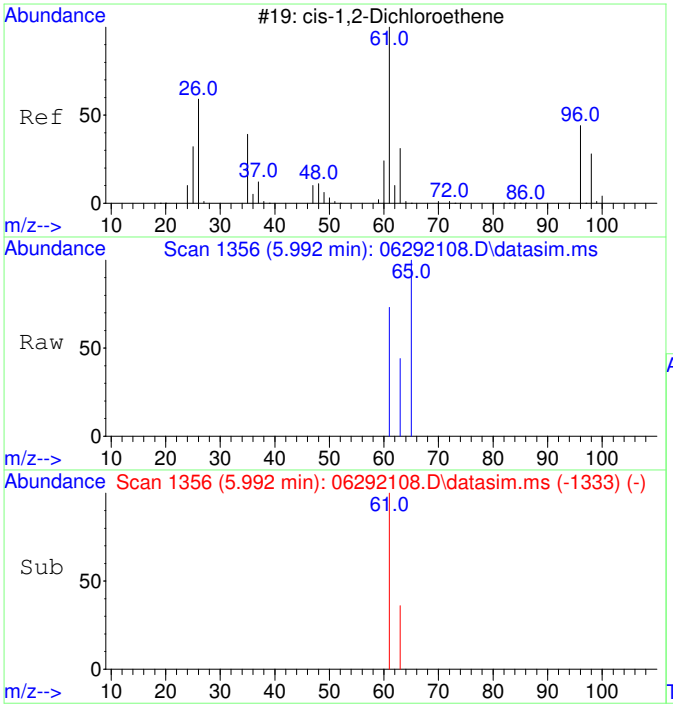


#4
1,1-Dichloroethane
Concen: 53.06 ug/L
RT: 4.971 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 63 Resp: 417

Ion	Ratio	Lower	Upper
63	100		
65	51.6	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

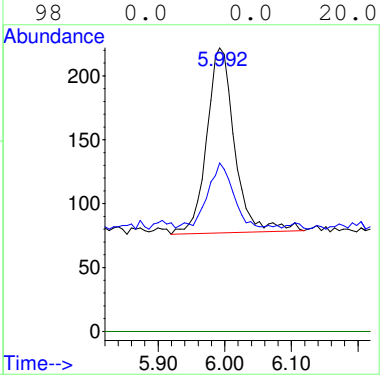


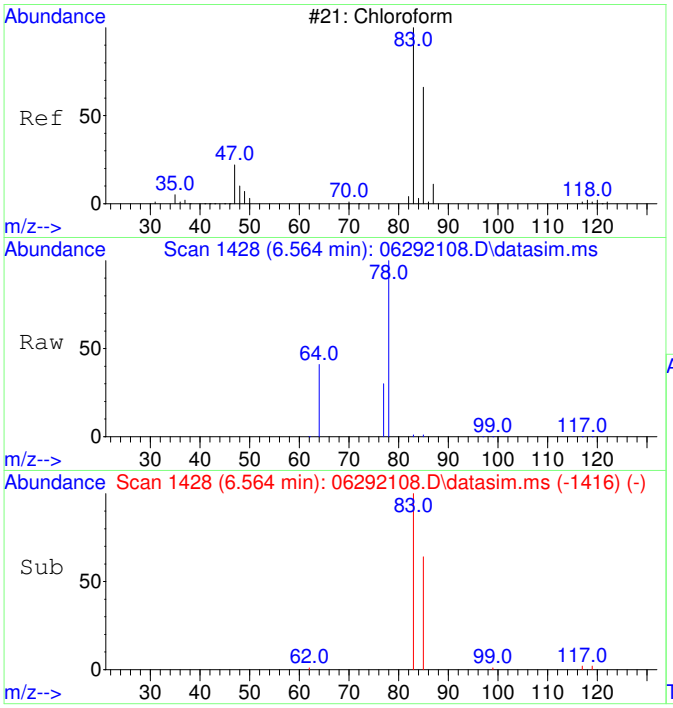


#5
cis-1,2-Dichloroethene
Concen: 55.91 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 61 Resp: 421

Ion	Ratio	Lower	Upper
61	100		
63	34.0	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

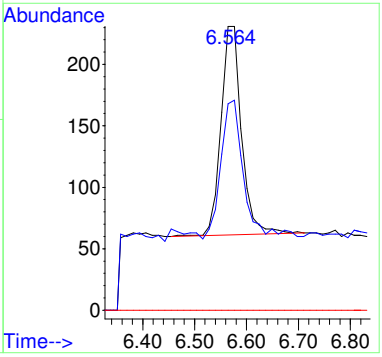


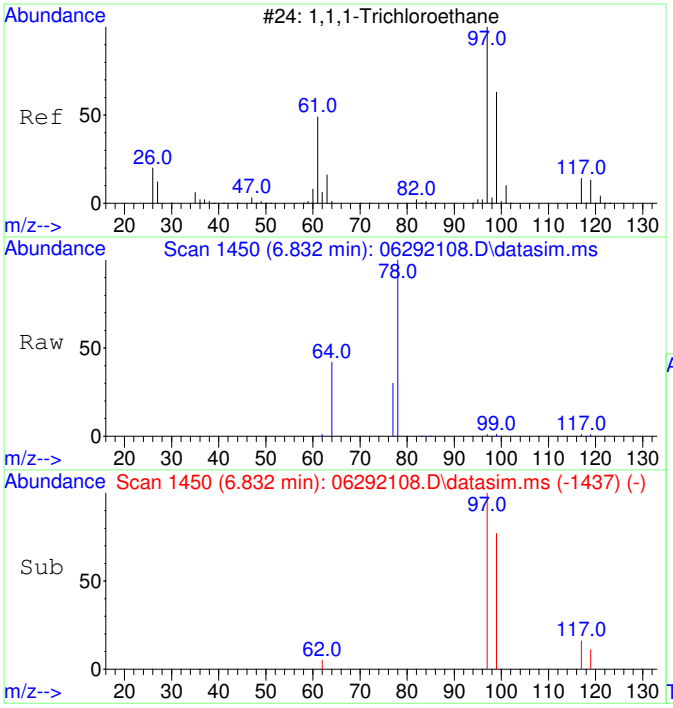


#6
Chloroform
Concen: 52.70 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 83 Resp: 467

Ion	Ratio	Lower	Upper
83	100		
85	76.0	34.5	94.5
87	0.0	0.0	20.0

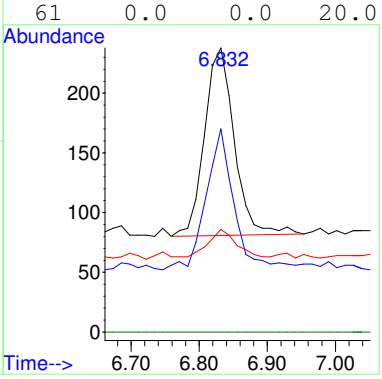


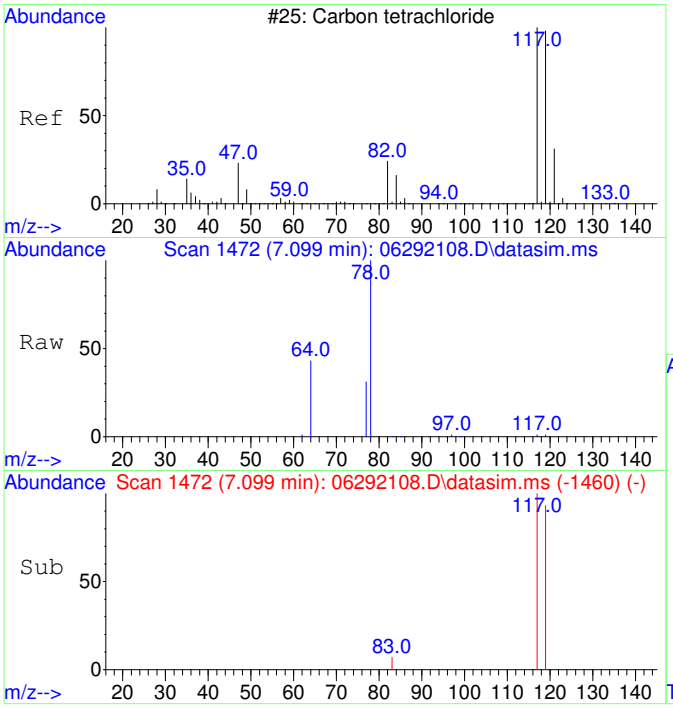


#7
1,1,1-Trichloroethane
Concen: 58.09 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.013 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 97 Resp: 479

Ion	Ratio	Lower	Upper
97	100		
99	70.8	34.4	94.4
117	12.9	0.0	42.8
61	0.0	0.0	20.0

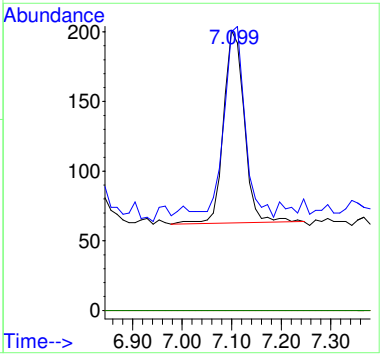


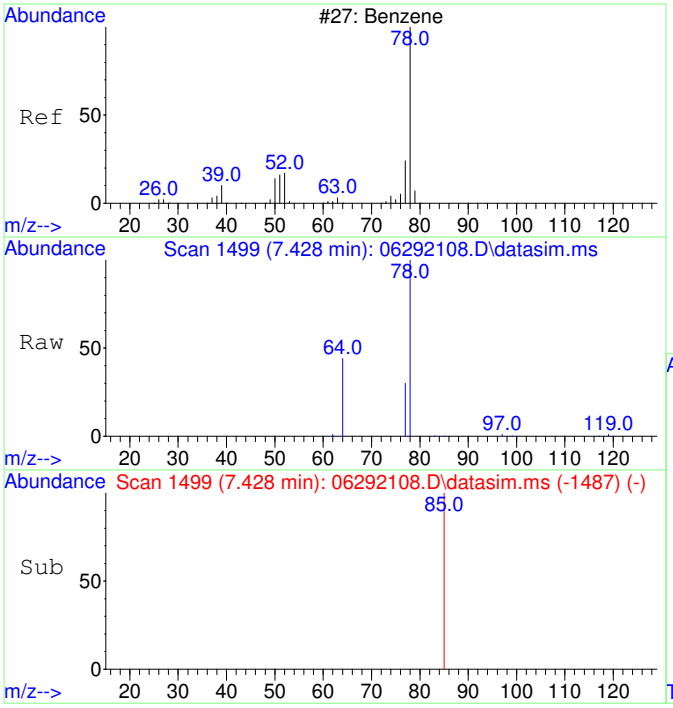


#8
Carbon tetrachloride
Concen: 55.54 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:117 Resp: 399

Ion	Ratio	Lower	Upper
117	100		
119	99.7	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

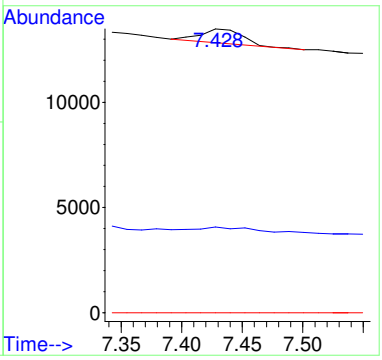


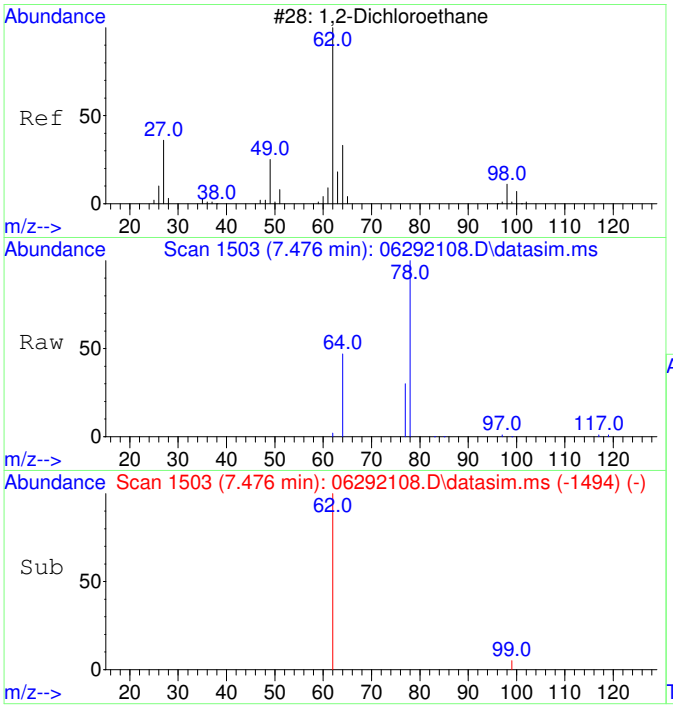


#9
Benzene
Concen: 57.03 ug/L
RT: 7.428 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 78 Resp: 1420

Ion	Ratio	Lower	Upper
78	100		
77	116.4	0.0	53.7#
52	0.0	0.0	20.0

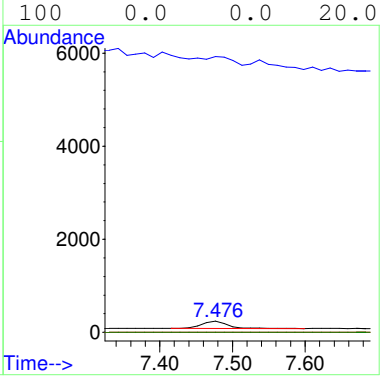


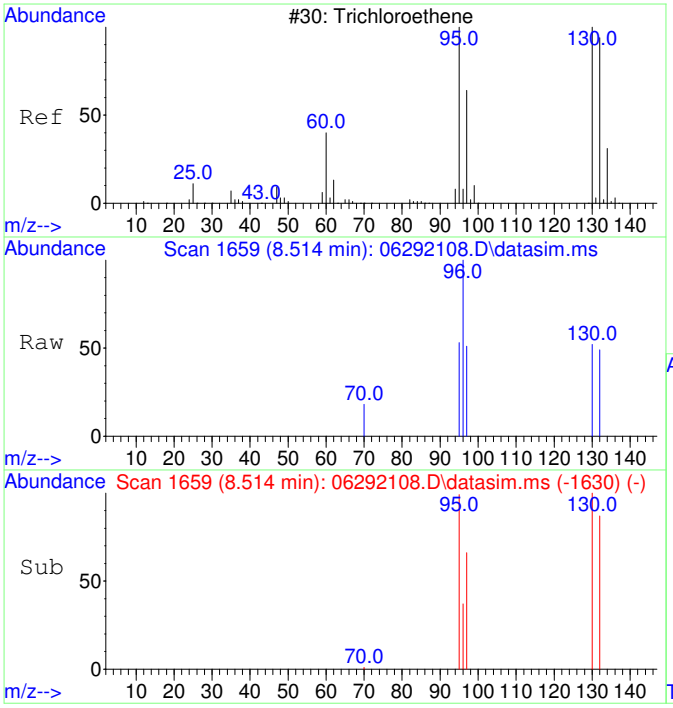


#10
1,2-Dichloroethane
Concen: 56.22 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 62 Resp: 385

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

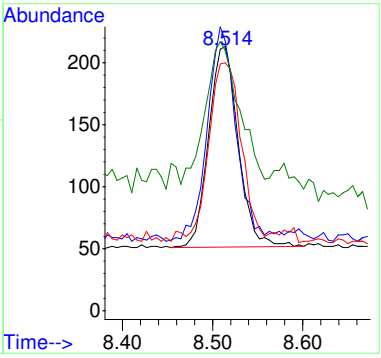


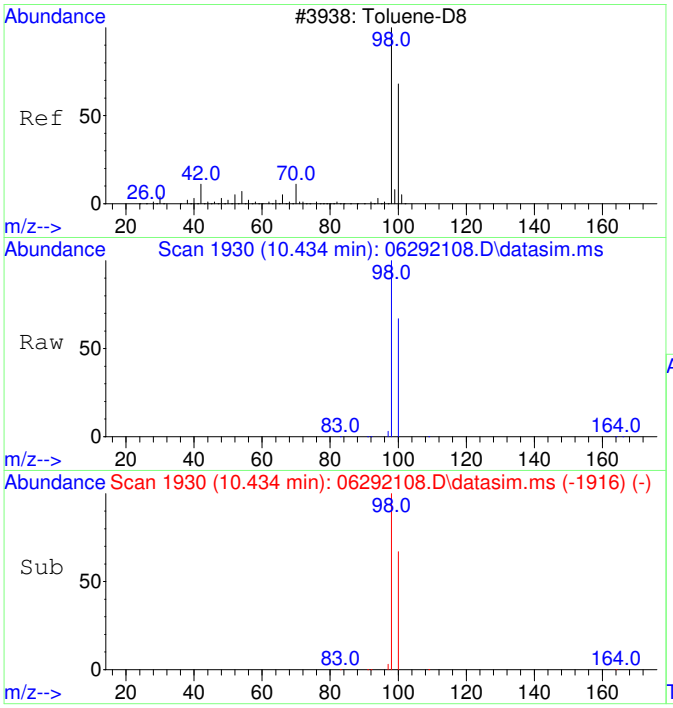


#11
Trichloroethene
Concen: 55.51 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:130 Resp: 368

Ion	Ratio	Lower	Upper
130	100		
95	104.9	65.8	125.8
132	98.9	75.8	115.8
97	89.1	42.0	82.0#

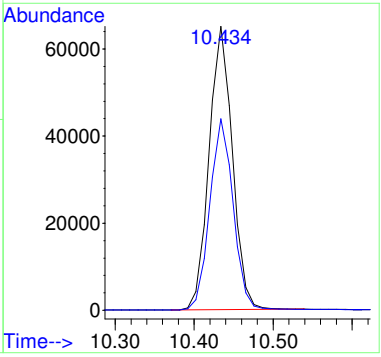


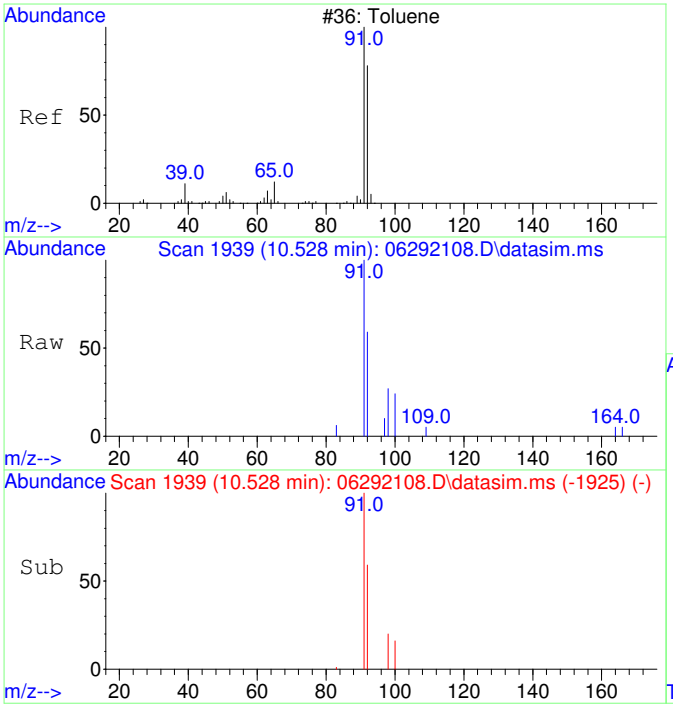


#12
Toluene-d8
Concen: 5075.06 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 98 Resp: 132887

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.3	97.3

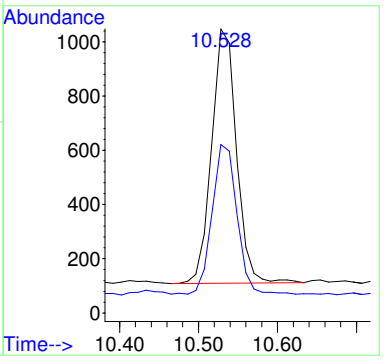


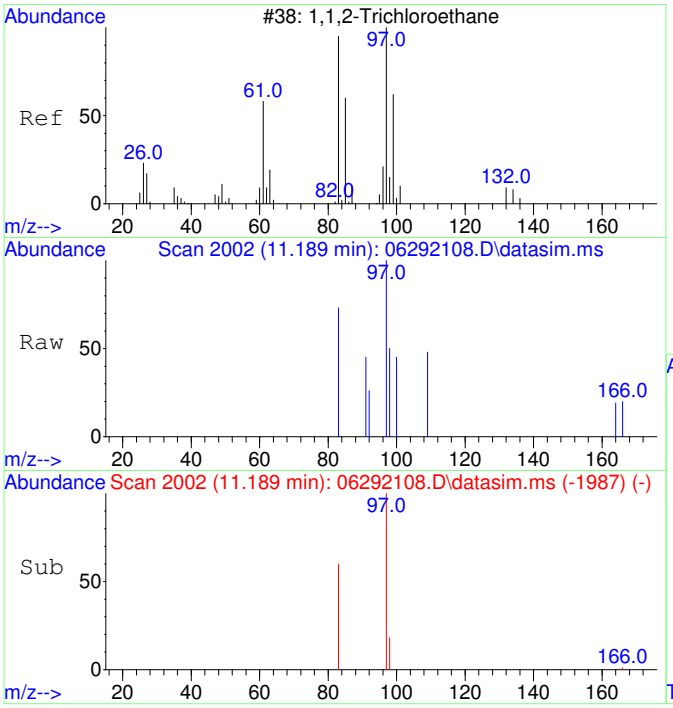


#13
Toluene
Concen: 60.03 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 2046

Ion	Ratio	Lower	Upper
91	100		
92	58.5	30.2	90.2

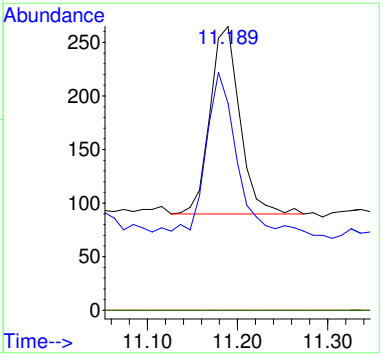


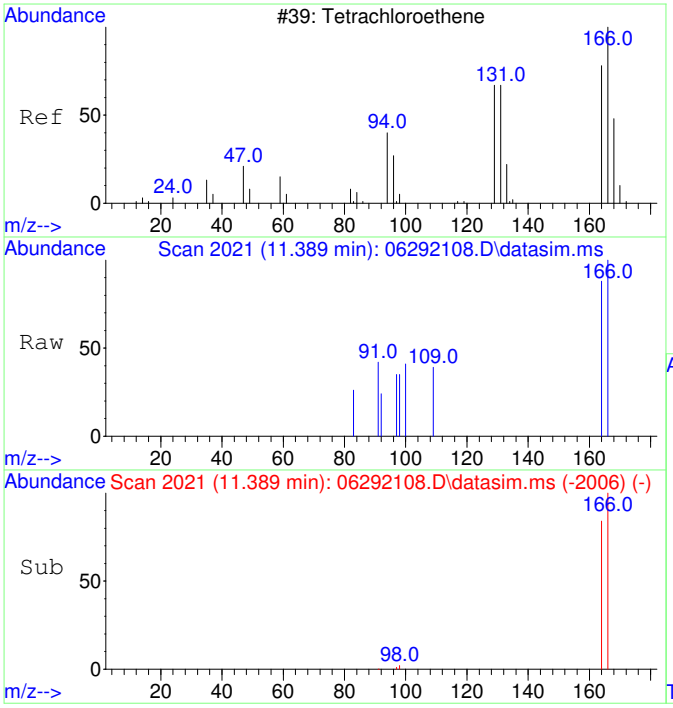


#14
1,1,2-Trichloroethane
Concen: 56.70 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
83	92.3	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

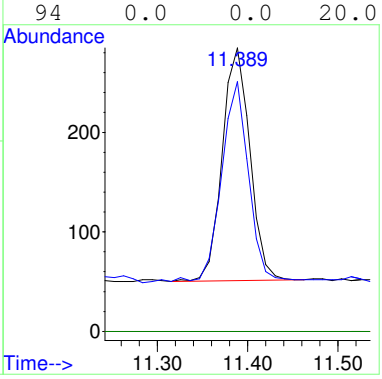


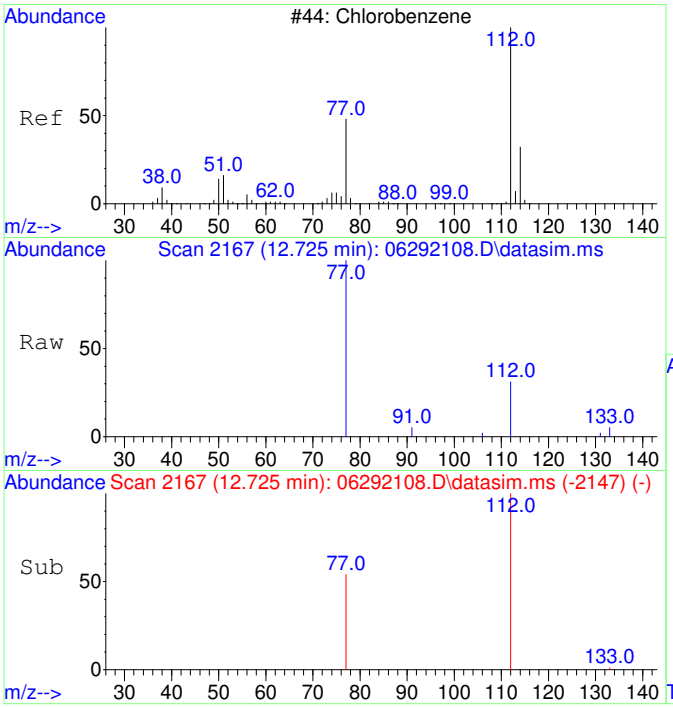


#15
Tetrachloroethene
Concen: 57.23 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:166 Resp: 499

Ion	Ratio	Lower	Upper
166	100		
164	86.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

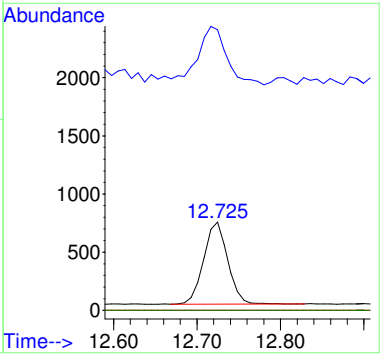


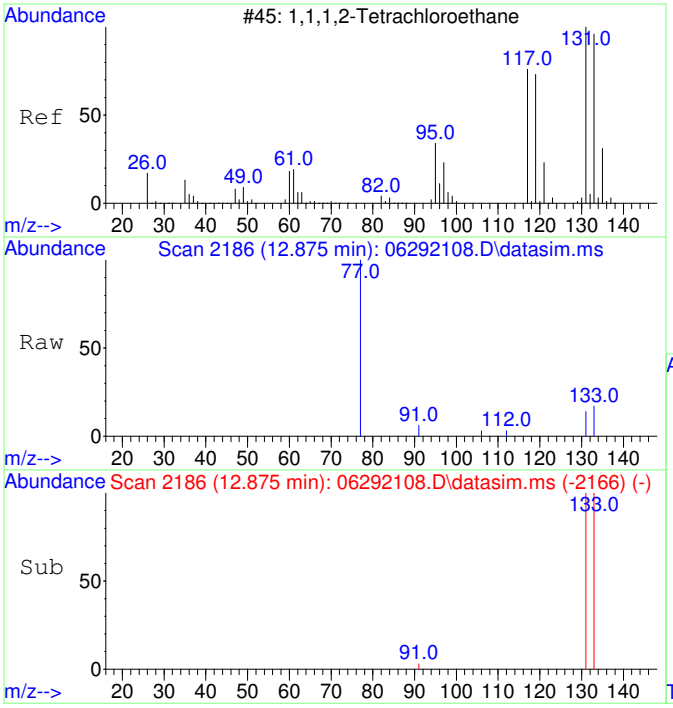


#16
Chlorobenzene
Concen: 47.57 ug/L
RT: 12.725 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:112 Resp: 1404

Ion	Ratio	Lower	Upper
112	100		
77	94.9	27.0	87.0#
114	0.0	0.0	20.0
51	0.0	0.0	20.0

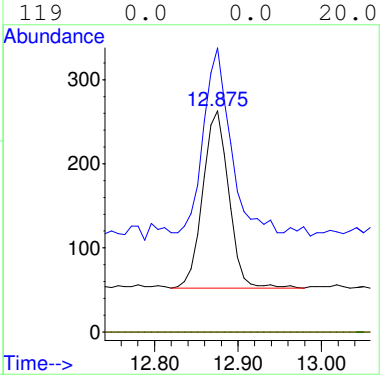


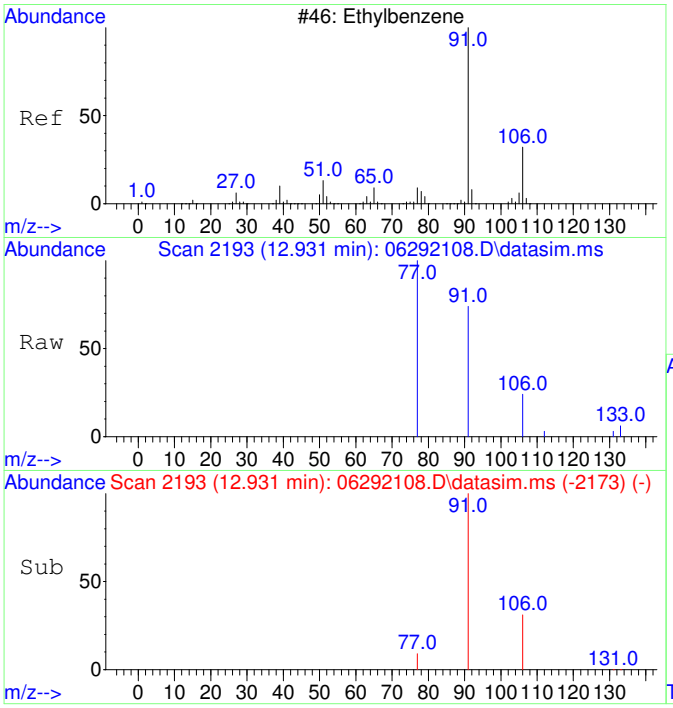


#17
1,1,1,2-Tetrachloroethane
Concen: 58.44 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:131 Resp: 459

Ion	Ratio	Lower	Upper
131	100		
133	106.5	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

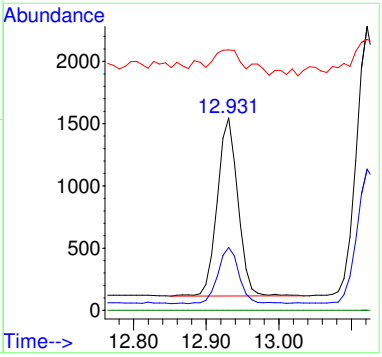


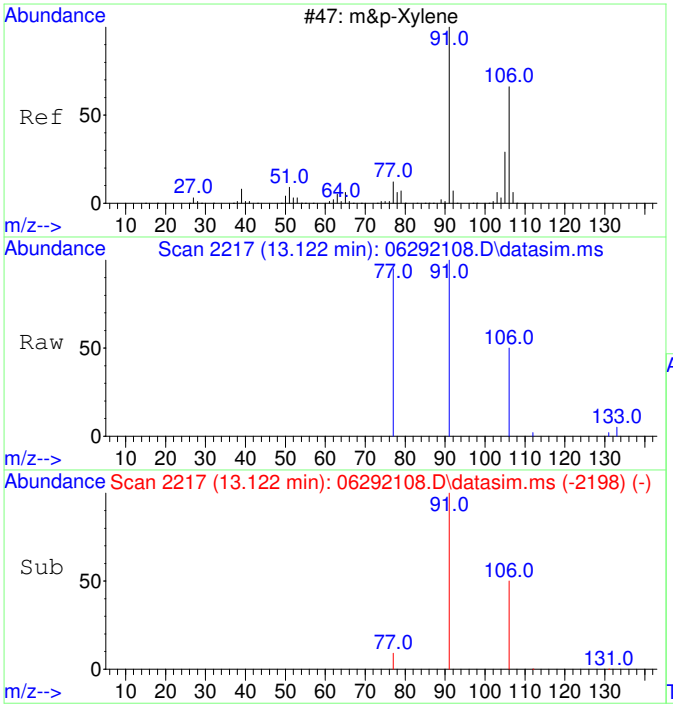


#18
Ethylbenzene
Concen: 64.52 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 2824

Ion	Ratio	Lower	Upper
91	100		
106	32.1	2.8	62.8
77	15.2	0.0	38.2
105	0.0	0.0	20.0

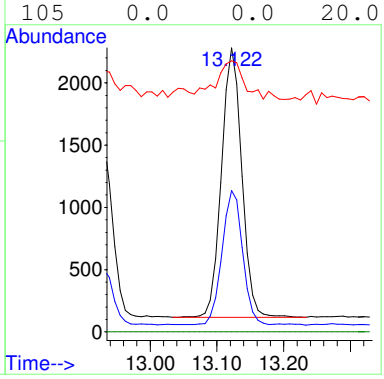


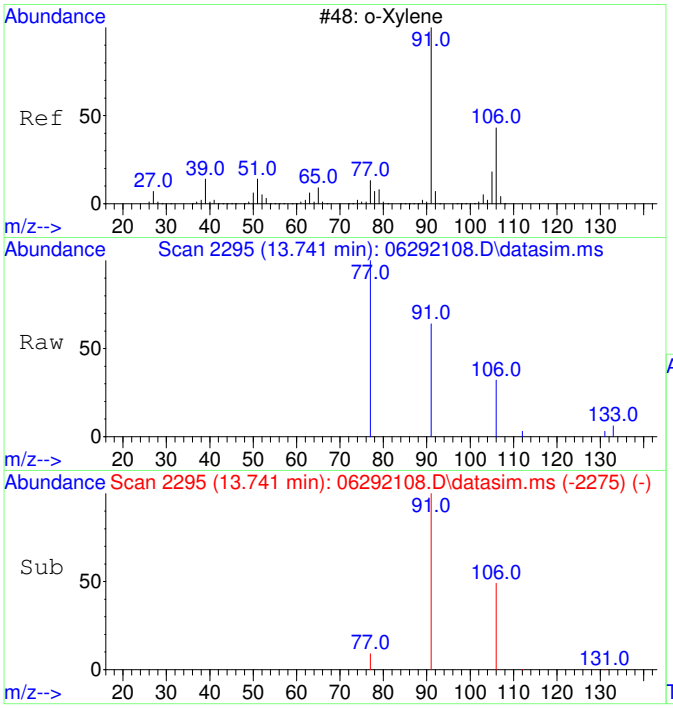


#19
m&p-Xylene
Concen: 132.53 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 4570

Ion	Ratio	Lower	Upper
91	100		
106	50.0	21.4	81.4
77	18.9	0.0	42.7
105	0.0	0.0	20.0

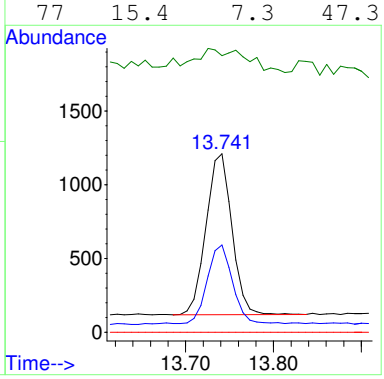


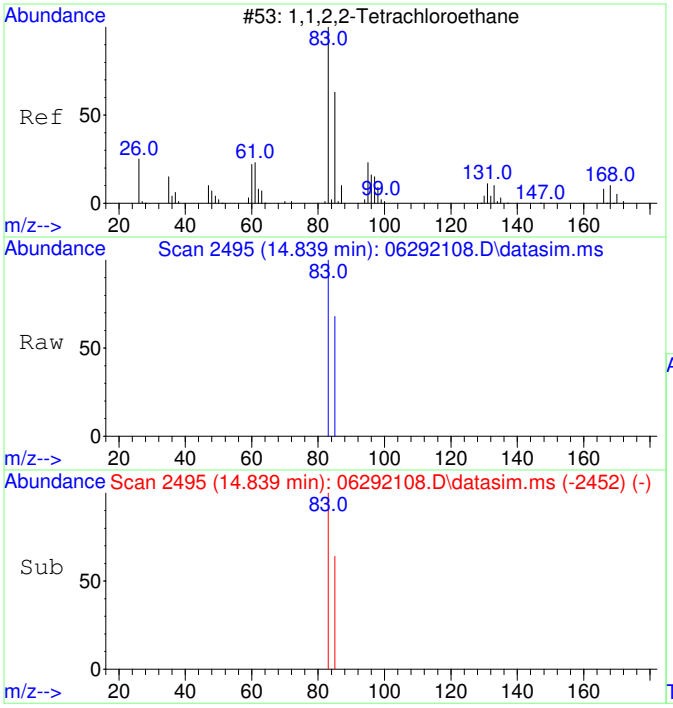


#20
o-Xylene
Concen: 59.82 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 2231

Ion	Ratio	Lower	Upper
91	100		
106	47.2	18.7	78.7
105	0.0	0.0	30.0
77	15.4	7.3	47.3

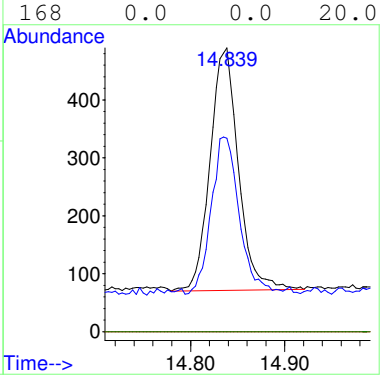


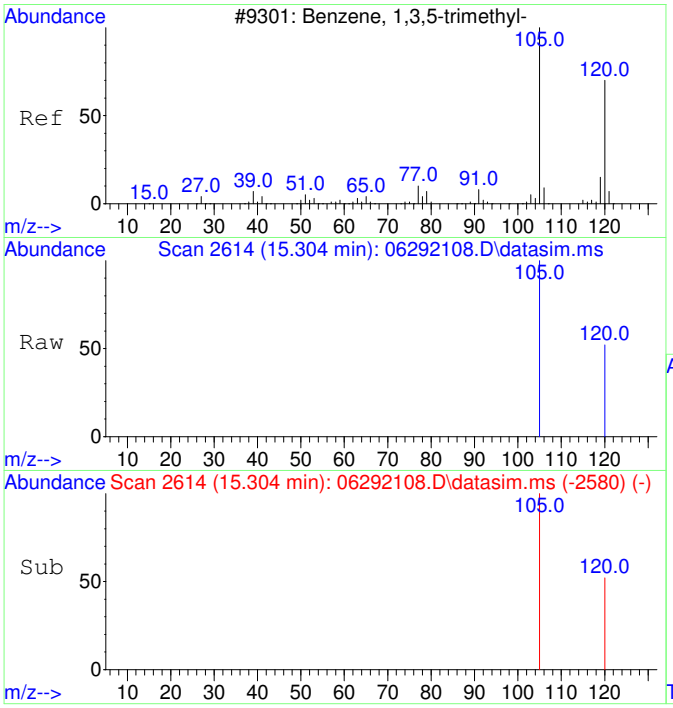


#21
1,1,2,2-Tetrachloroethane
Concen: 53.90 ug/L
RT: 14.839 min Scan# 2495
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 83 Resp: 876

Ion	Ratio	Lower	Upper
83	100		
85	64.0	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

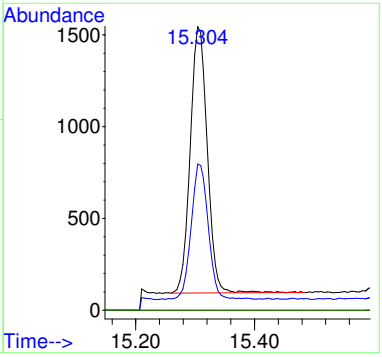


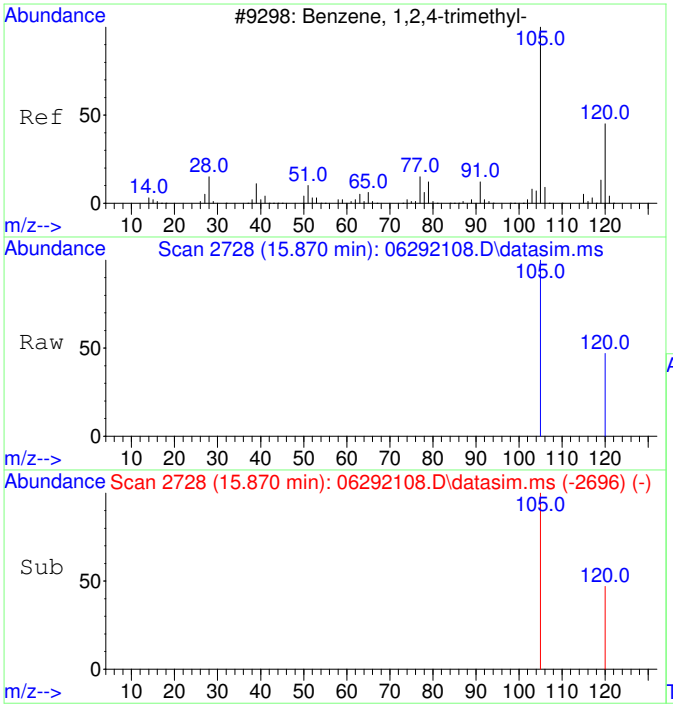


#22
1,3,5-Trimethylbenzene
Concen: 66.07 ug/L
RT: 15.304 min Scan# 2614
Delta R.T. 0.002 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:105 Resp: 2894

Ion	Ratio	Lower	Upper
105	100		
120	50.1	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

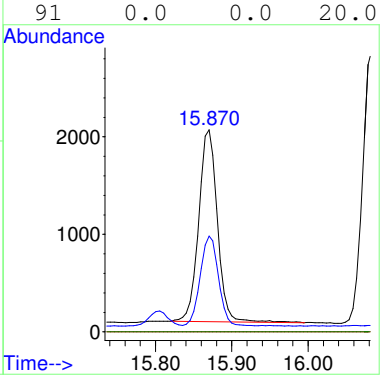


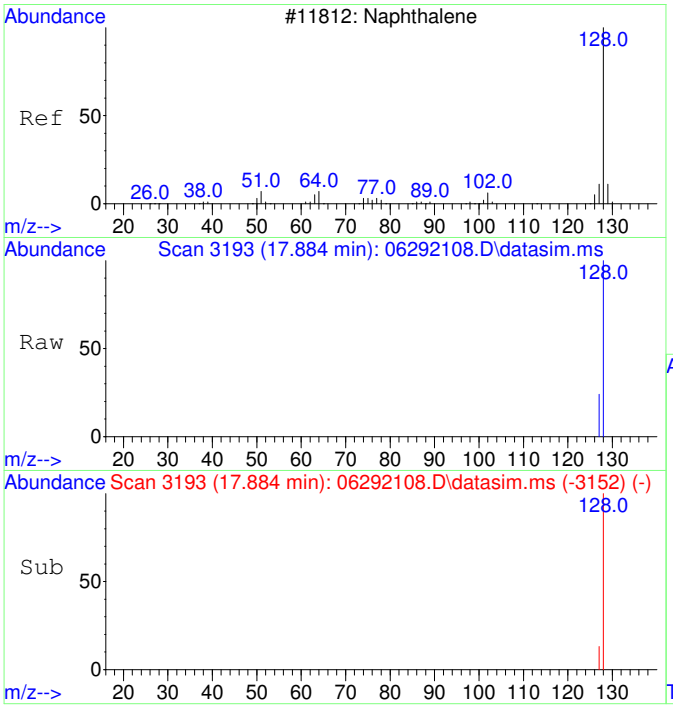


#23
1,2,4-Trimethylbenzene
Concen: 73.32 ug/L
RT: 15.870 min Scan# 2728
Delta R.T. 0.007 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:105 Resp: 3345

Ion	Ratio	Lower	Upper
105	100		
120	44.9	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

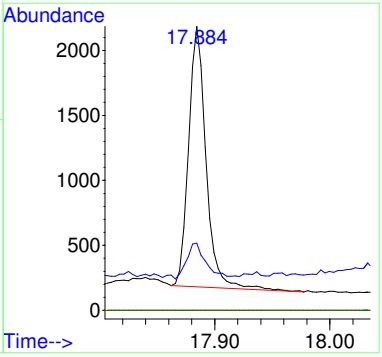


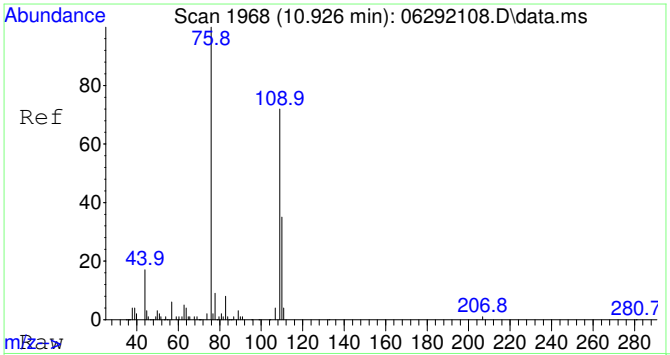


#24
Naphthalene
Concen: 24.78 ug/L
RT: 17.884 min Scan# 3193
Delta R.T. 0.002 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:128 Resp: 2112

Ion	Ratio	Lower	Upper
128	100		
127	14.4	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

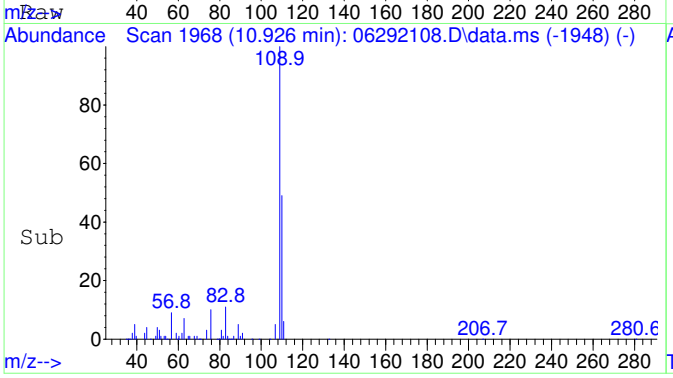


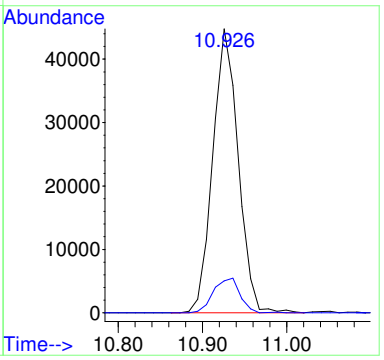


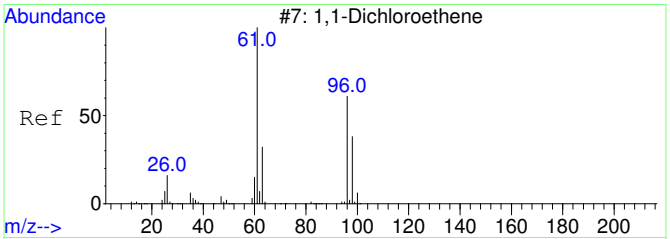
#25
2-Fluorotoluene SCAN
Concen: 5001.43 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:109 Resp: 94103

Ion	Ratio	Lower	Upper
109	100		
83	12.7	0.0	44.5



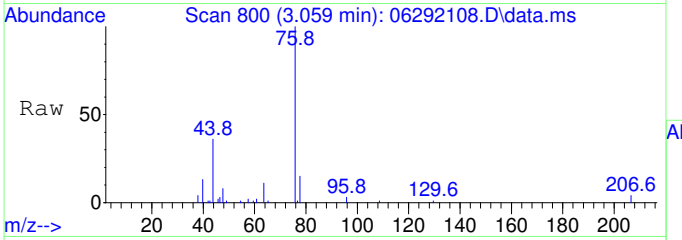


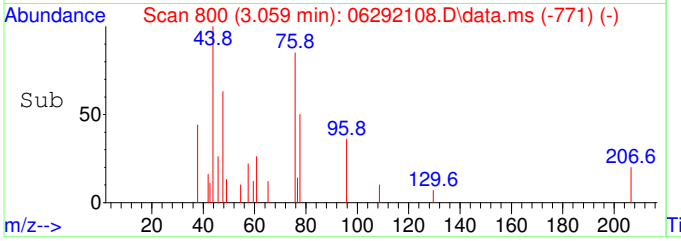


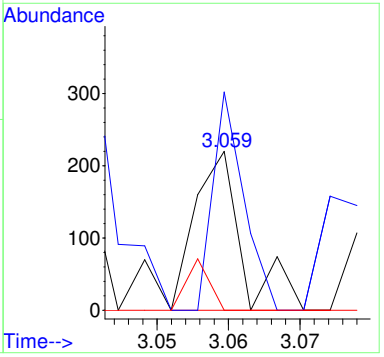
#26
1,1-Dichloroethene SCAN
Concen: 25.41 ug/L
RT: 3.059 min Scan# 800
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

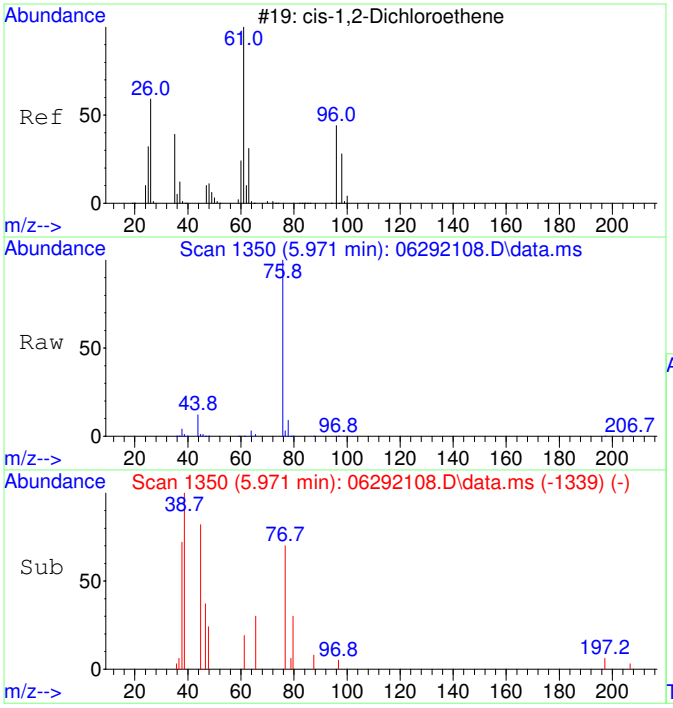
Tgt Ion: 61 Resp: 101

Ion	Ratio	Lower	Upper
61	100		
96	90.1	33.0	93.0
98	0.0	12.5	72.5#





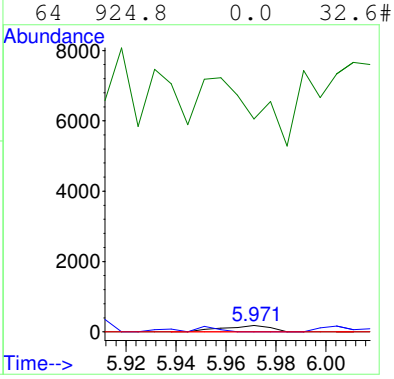


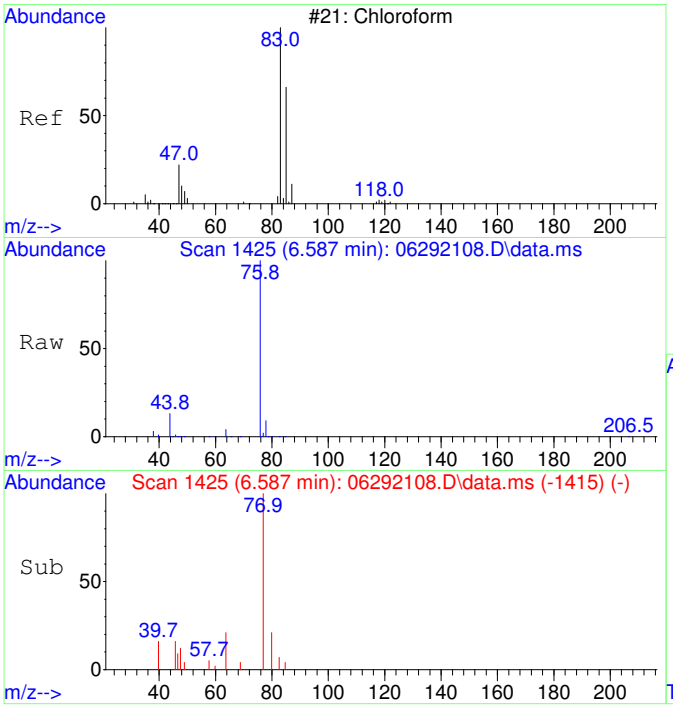


#29
cis-1,2-Dichloroethene SCAN
Concen: 40.94 ug/L
RT: 5.971 min Scan# 1350
Delta R.T. -0.026 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 61 Resp: 238

Ion	Ratio	Lower	Upper
61	100		
96	61.3	36.9	96.9
98	0.0	12.1	72.1#
64	924.8	0.0	32.6#

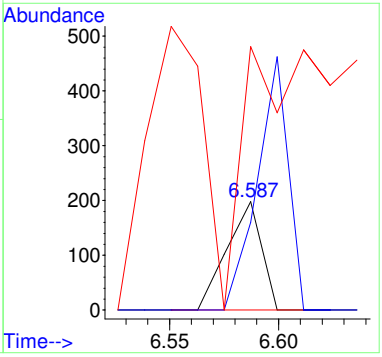


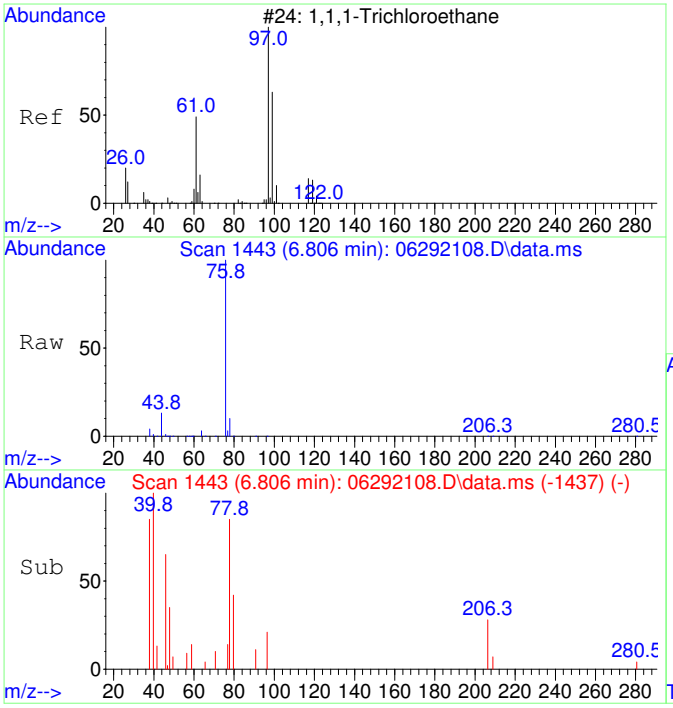


#30
Chloroform SCAN
Concen: 35.62 ug/L
RT: 6.587 min Scan# 1425
Delta R.T. 0.025 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 83 Resp: 219

Ion	Ratio	Lower	Upper
83	100		
85	207.3	27.1	87.1#
47	0.0	7.5	67.5#

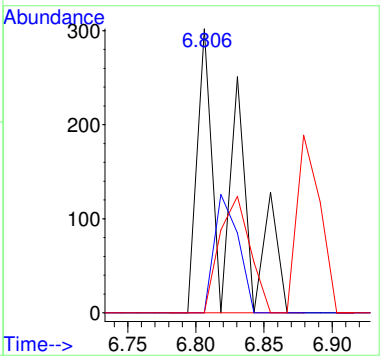


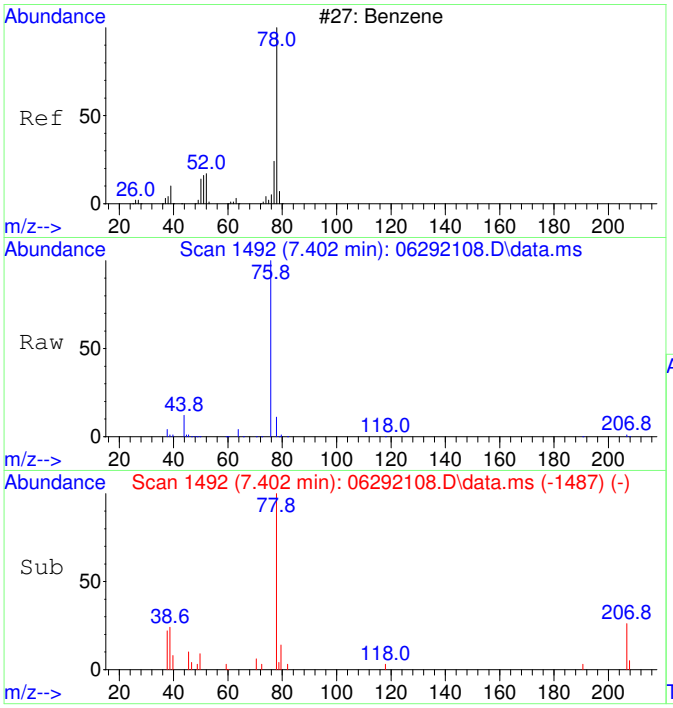


#31
1,1,1-Trichloroethane SCAN
Concen: 86.53 ug/L
RT: 6.806 min Scan# 1443
Delta R.T. -0.024 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 97 Resp: 497

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

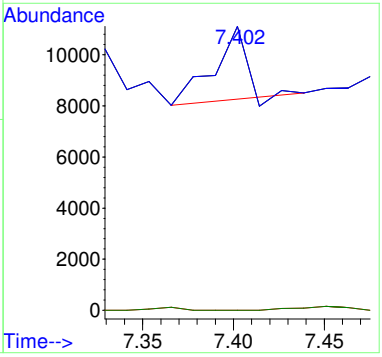


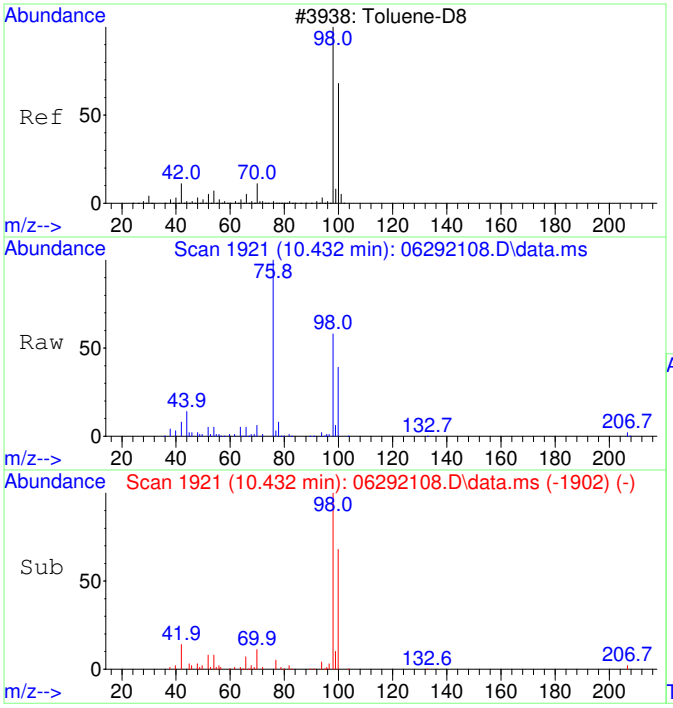


#33
Benzene SCAN
Concen: 250.18 ug/L
RT: 7.402 min Scan# 1492
Delta R.T. -0.036 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 78 Resp: 3608

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

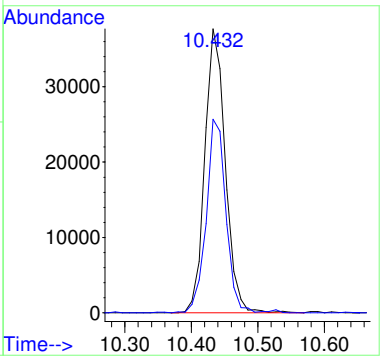


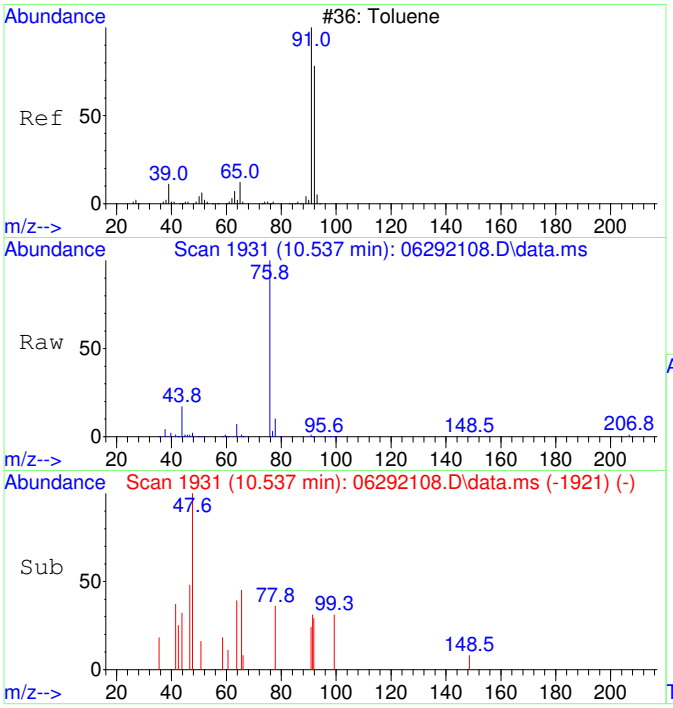


#36
Toluene-d8 SCAN
Concen: 4957.29 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 98 Resp: 80898

Ion	Ratio	Lower	Upper
98	100		
100	64.6	36.1	96.1

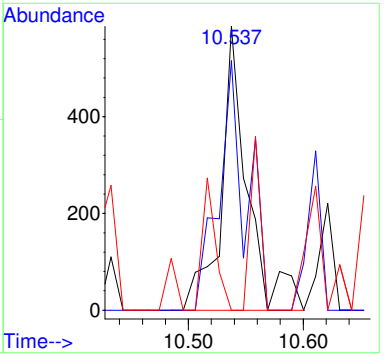


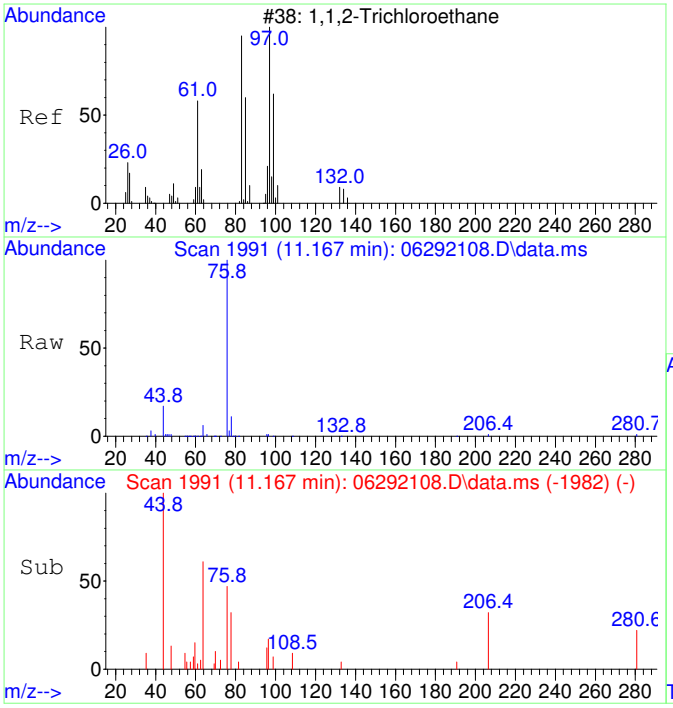


#37
Toluene SCAN
Concen: 44.08 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 931

Ion	Ratio	Lower	Upper
91	100		
92	91.8	26.5	86.5#
65	0.0	0.0	40.6

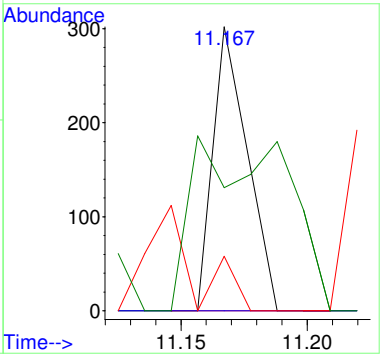


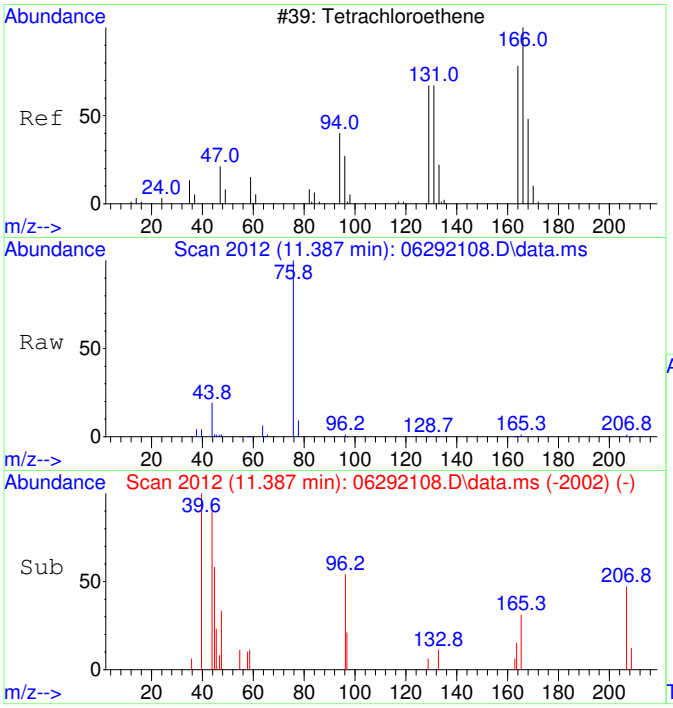


#38
1,1,2-Trichloroethane SCAN
Concen: 56.64 ug/L
RT: 11.167 min Scan# 1991
Delta R.T. -0.010 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 97 Resp: 285

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	165.6	37.5	97.5#

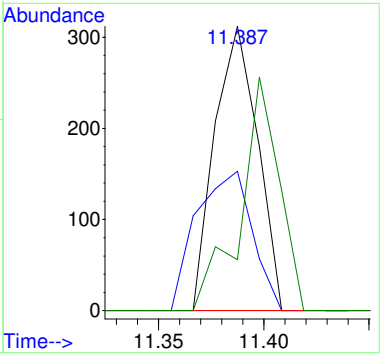


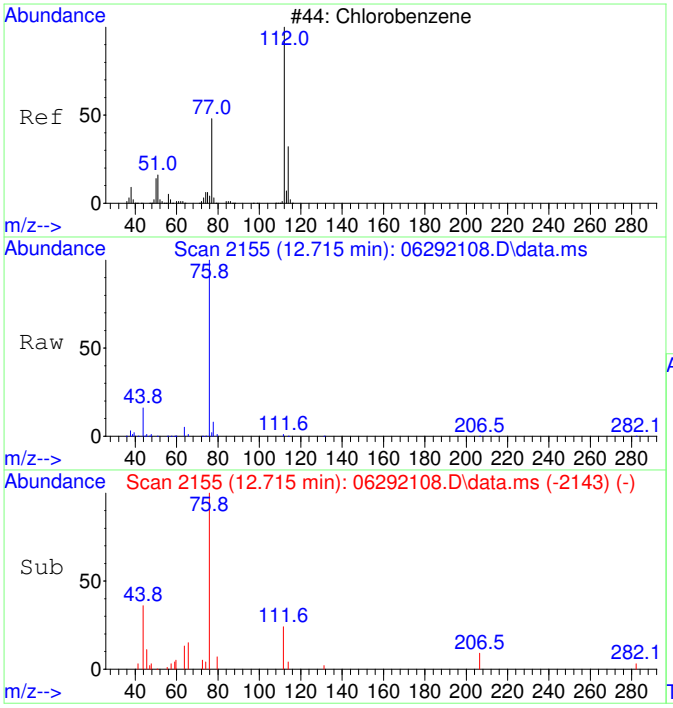


#39
Tetrachloroethene SCAN
Concen: 86.71 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:166 Resp: 441

Ion	Ratio	Lower	Upper
166	100		
164	63.9	53.9	113.9
131	0.0	45.6	105.6#
129	73.5	51.3	111.3

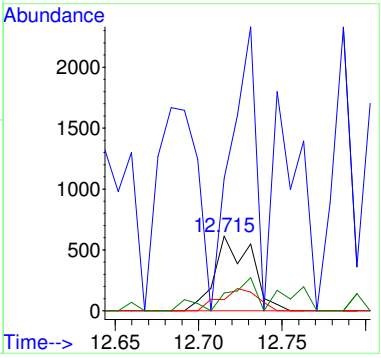


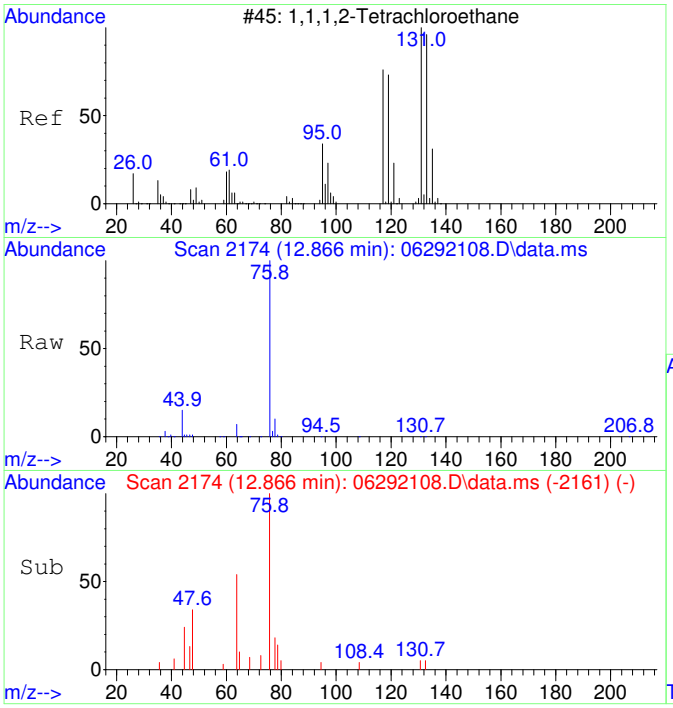


#40
Chlorobenzene SCAN
Concen: 59.70 ug/L
RT: 12.715 min Scan# 2155
Delta R.T. -0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:112 Resp: 940

Ion	Ratio	Lower	Upper
112	100		
77	254.8	48.5	108.5#
114	30.2	4.9	64.9
51	37.1	0.0	53.6

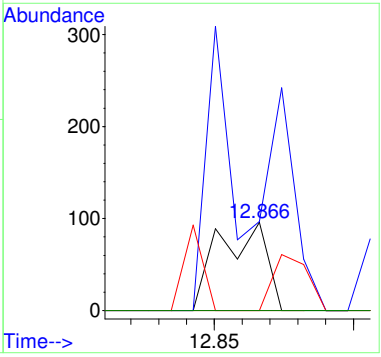


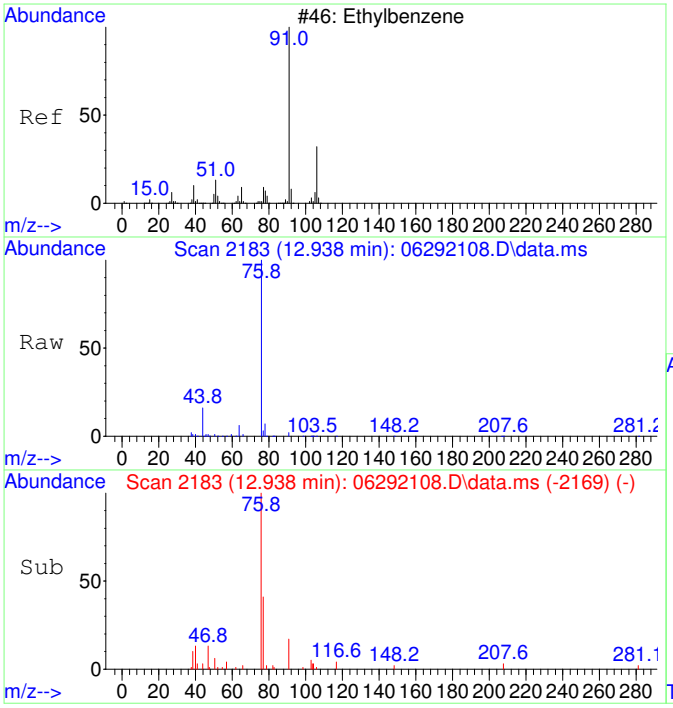


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 24.60 ug/L
RT: 12.866 min Scan# 2174
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:131 Resp: 115

Ion	Ratio	Lower	Upper
131	100		
133	0.0	61.4	121.4#
119	46.1	33.6	93.6
117	0.0	39.6	99.6#

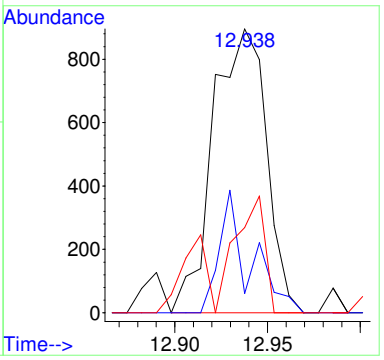


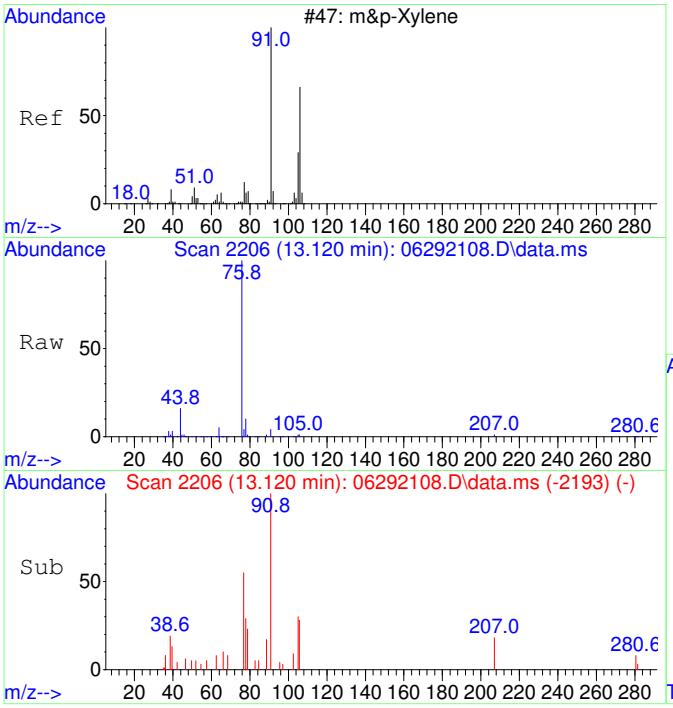


#42
Ethylbenzene SCAN
Concen: 63.90 ug/L
RT: 12.938 min Scan# 2183
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 1799

Ion	Ratio	Lower	Upper
91	100		
106	24.3	0.5	60.5
51	22.7	0.0	39.6

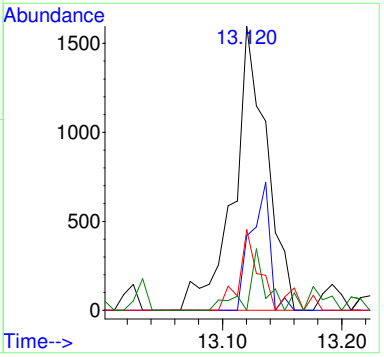


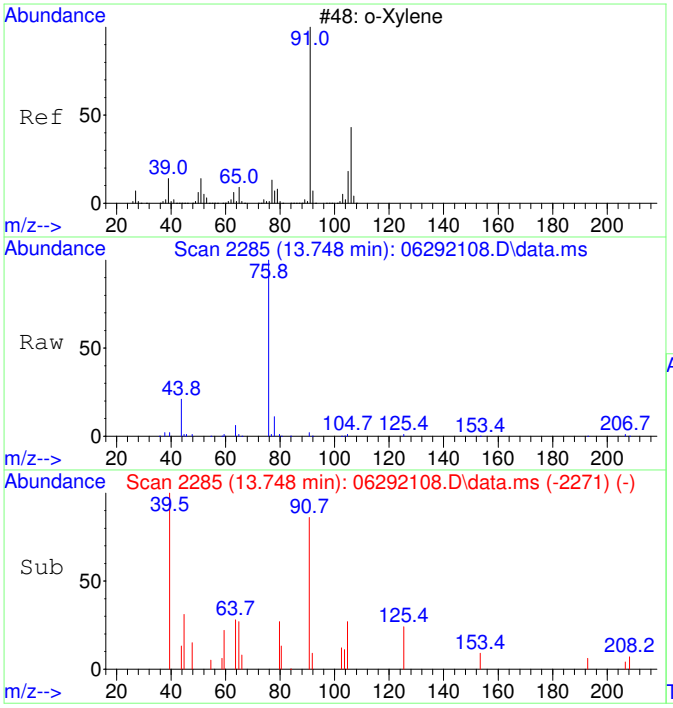


#43
m&p-Xylene SCAN
Concen: 73.35 ug/L
RT: 13.120 min Scan# 2206
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 3081

Ion	Ratio	Lower	Upper
91	100		
106	26.0	21.2	81.2
105	13.7	0.0	51.6
51	11.2	0.0	41.7

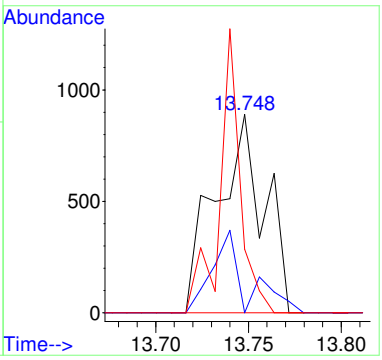


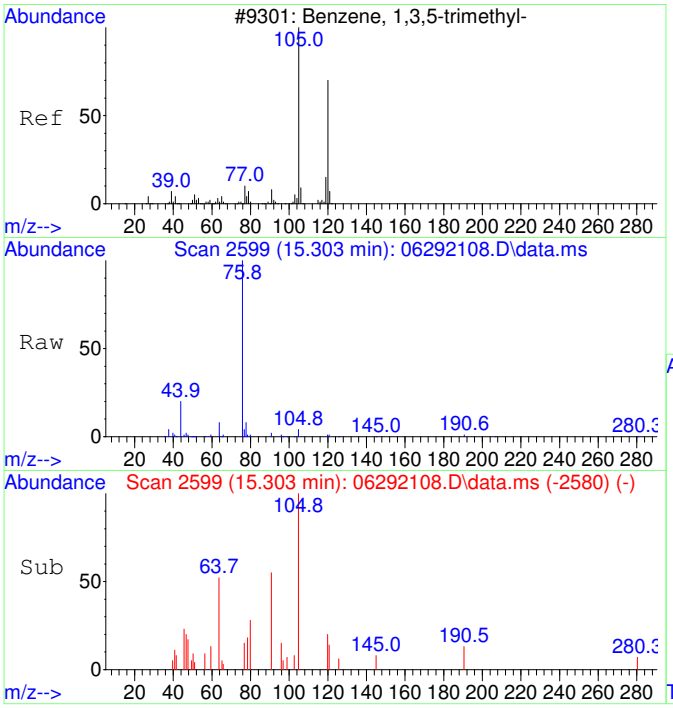


#44
o-Xylene SCAN
Concen: 69.94 ug/L
RT: 13.748 min Scan# 2285
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 1616

Ion	Ratio	Lower	Upper
91	100		
106	29.5	19.1	79.1
105	60.3	0.0	55.6#

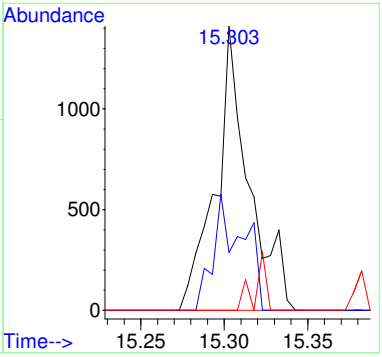


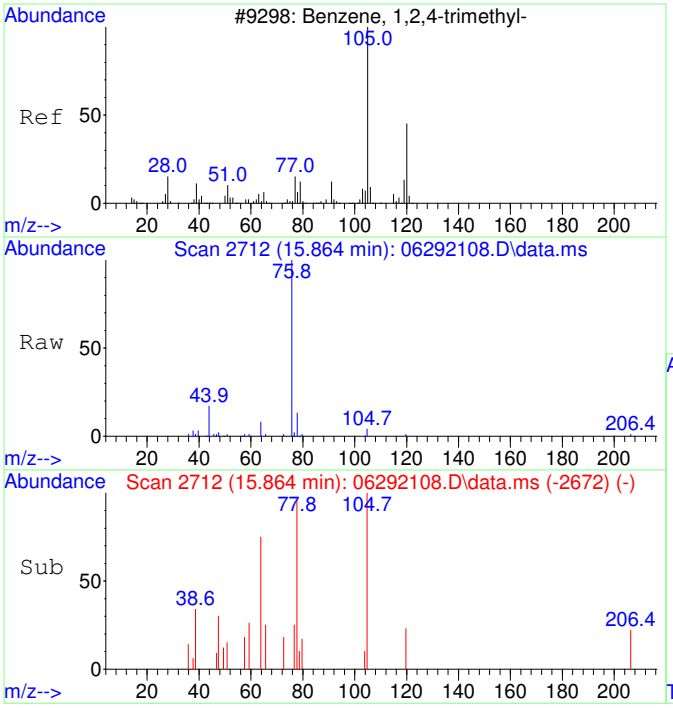


#46
1,3,5-Trimethylbenzene SCAN
Concen: 76.76 ug/L
RT: 15.303 min Scan# 2599
Delta R.T. 0.002 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:105 Resp: 1947

Ion	Ratio	Lower	Upper
105	100		
120	36.8	20.2	80.2
119	0.0	0.0	43.8

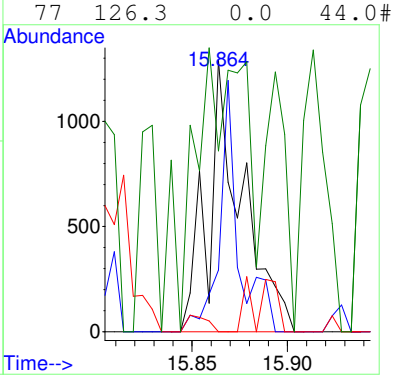


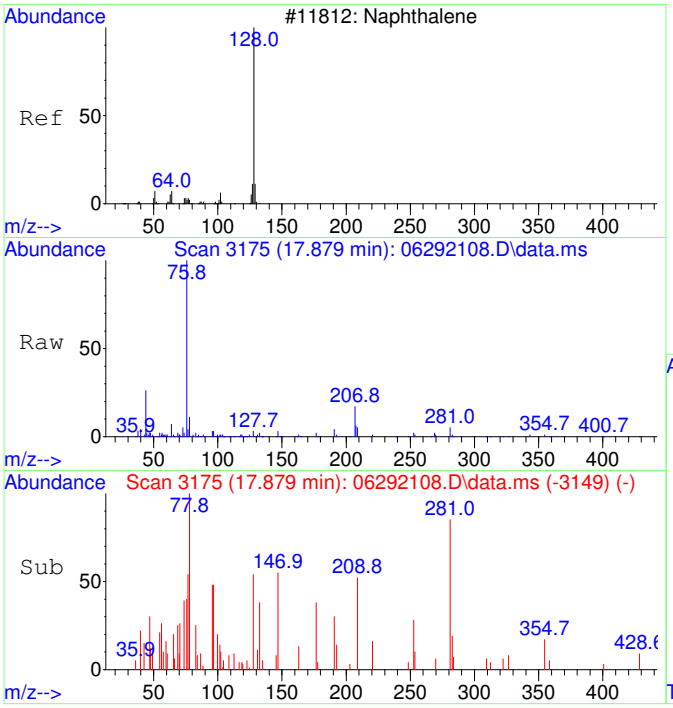


#47
1,2,4-Trimethylbenzene SCAN
Concen: 60.98 ug/L
RT: 15.864 min Scan# 2712
Delta R.T. -0.003 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:105 Resp: 1602

Ion	Ratio	Lower	Upper
105	100		
120	51.2	15.6	75.6
119	3.7	0.0	38.2
77	126.3	0.0	44.0#

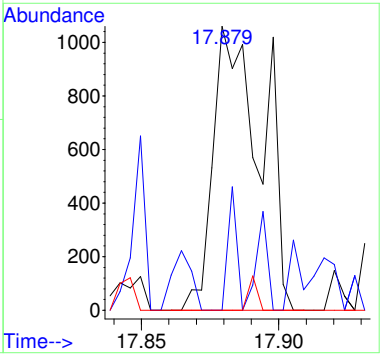




#48
Naphthalene SCAN
Concen: 26.95 ug/L
RT: 17.879 min Scan# 3175
Delta R.T. -0.002 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:128 Resp: 1291

Ion	Ratio	Lower	Upper
128	100		
127	7.1	0.0	41.1
129	0.0	0.0	39.5



2106037-21

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292109.D
Acq On : 29 Jun 2021 11:58
InstName : AG5975C
Operator : TD
Sample : 2106037-21
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 29 12:19:24 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

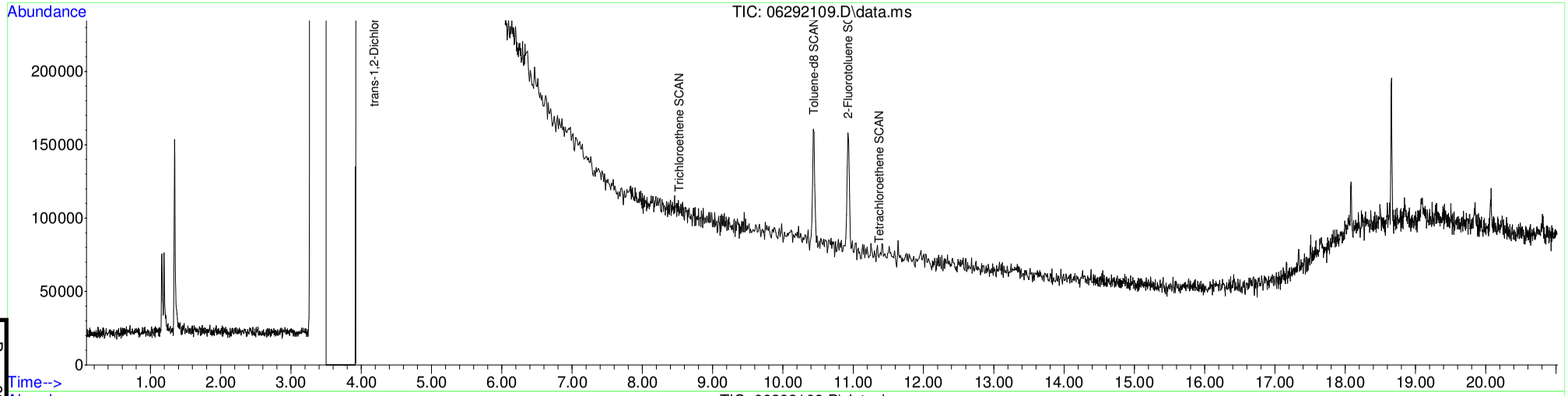
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	125067	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	107775	5030.83 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.62%		
Target Compounds					Qvalue
11] Trichloroethene	8.508	130	554	102.13 ug/L	95
15] Tetrachloroethene	11.389	166	528	74.02 ug/L #	99
23] 1,2,4-Trimethylbenzene	15.868	105	1057	28.32 ug/L #	95
25) 2-Fluorotoluene SCAN	10.926	109	71683	4656.60 ug/L	91
27) trans-1,2-Dichloroethe...	4.186	61	101	28.71 ug/L #	1
35) Trichloroethene SCAN	8.523	130	111	36.91 ug/L #	1
36) Toluene-d8 SCAN	10.432	98	63910	4786.72 ug/L	96
39) Tetrachloroethene SCAN	11.366	166	145	34.85 ug/L #	25

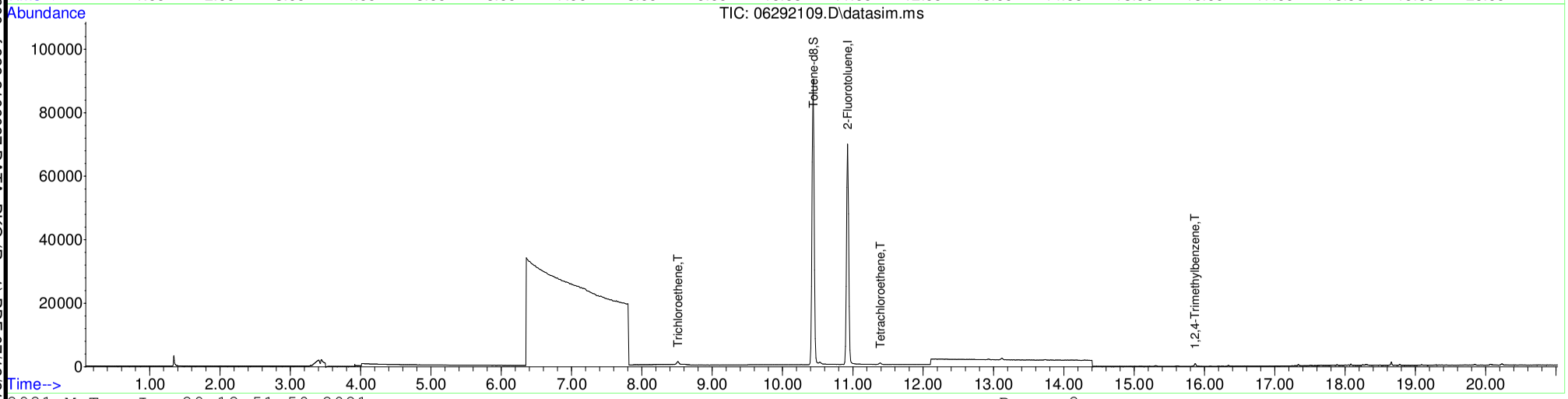
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292109.D
Acq On : 29 Jun 2021 11:58
InstName : AG5975C
Operator : TD
Sample : 2106037-21
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 29 12:19:24 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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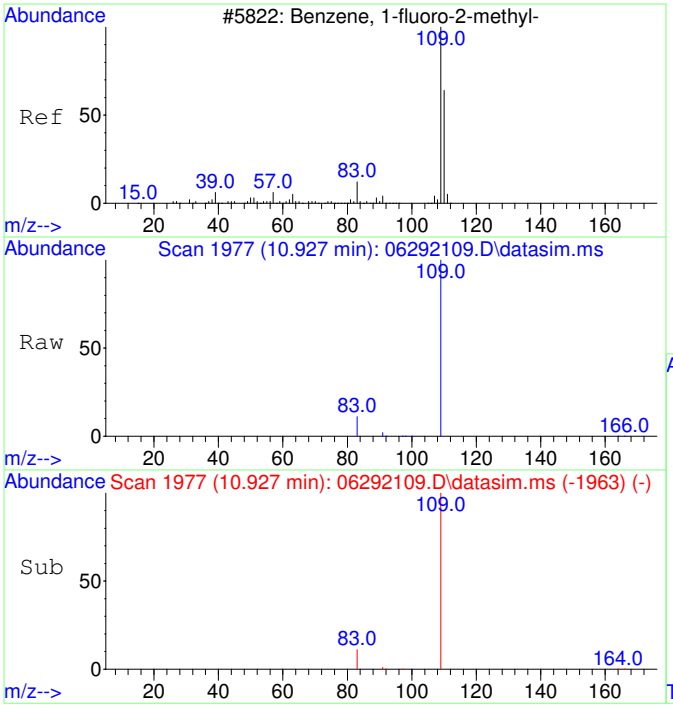
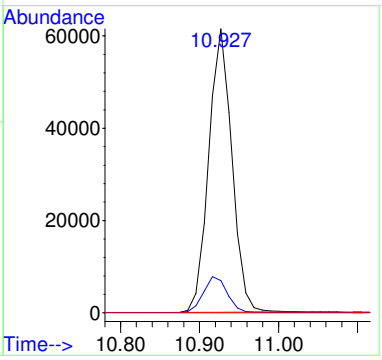
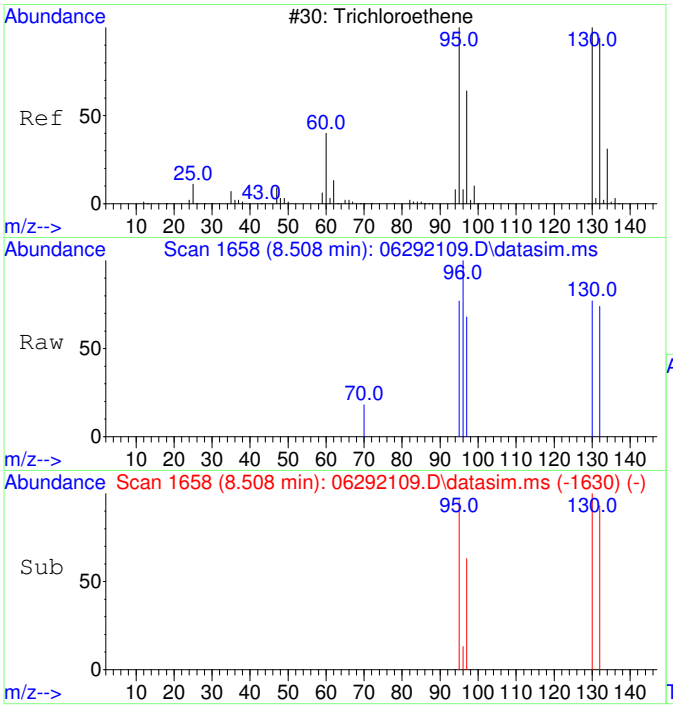


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion:109 Resp: 125067

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

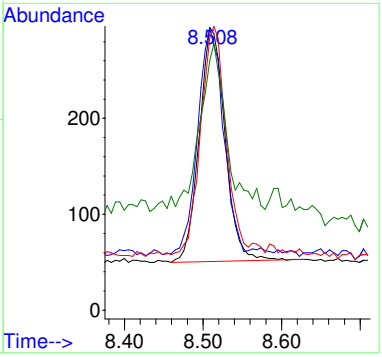


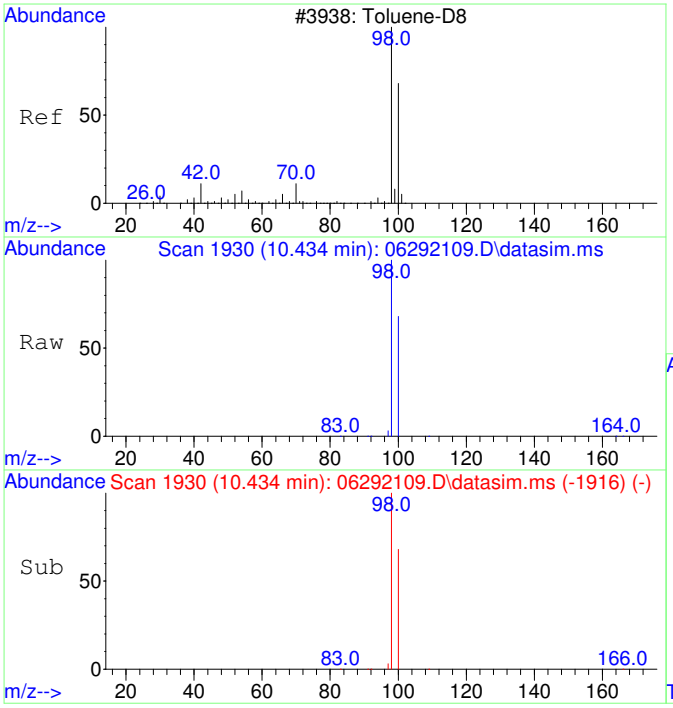


#11
Trichloroethene
Concen: 102.13 ug/L
RT: 8.508 min Scan# 1658
Delta R.T. 0.000 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion:130 Resp: 554

Ion	Ratio	Lower	Upper
130	100		
95	99.8	65.8	125.8
132	95.8	75.8	115.8
97	71.7	42.0	82.0

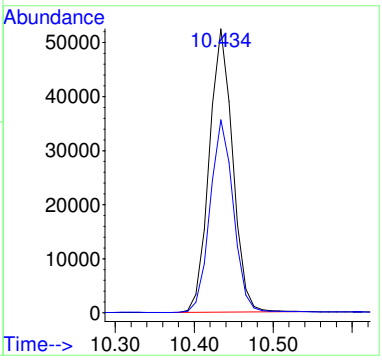


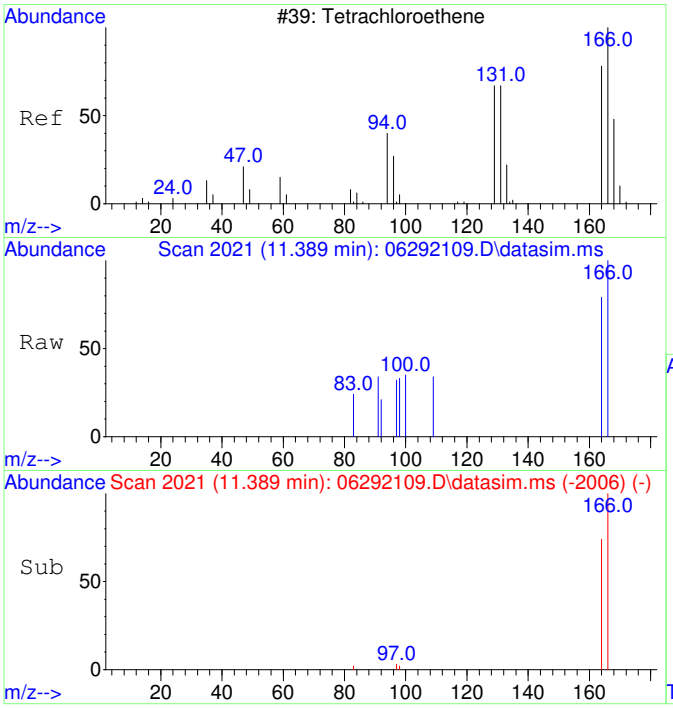


#12
Toluene-d8
Concen: 5030.83 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion: 98 Resp: 107775

Ion	Ratio	Lower	Upper
98	100		
100	67.4	37.3	97.3

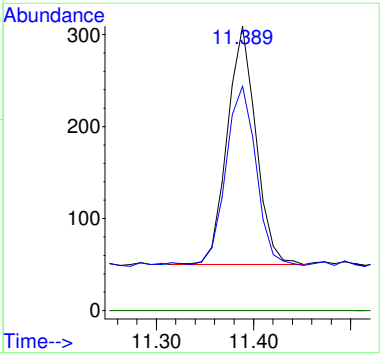


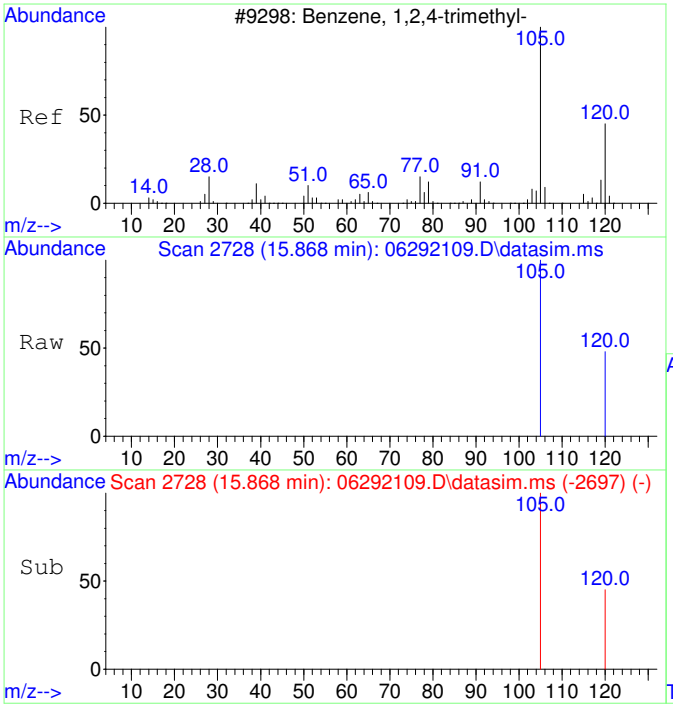


#15
Tetrachloroethene
Concen: 74.02 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion:166 Resp: 528

Ion	Ratio	Lower	Upper
166	100		
164	78.6	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

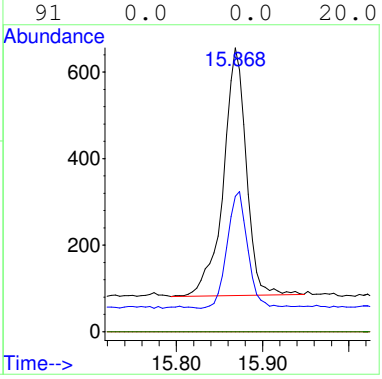


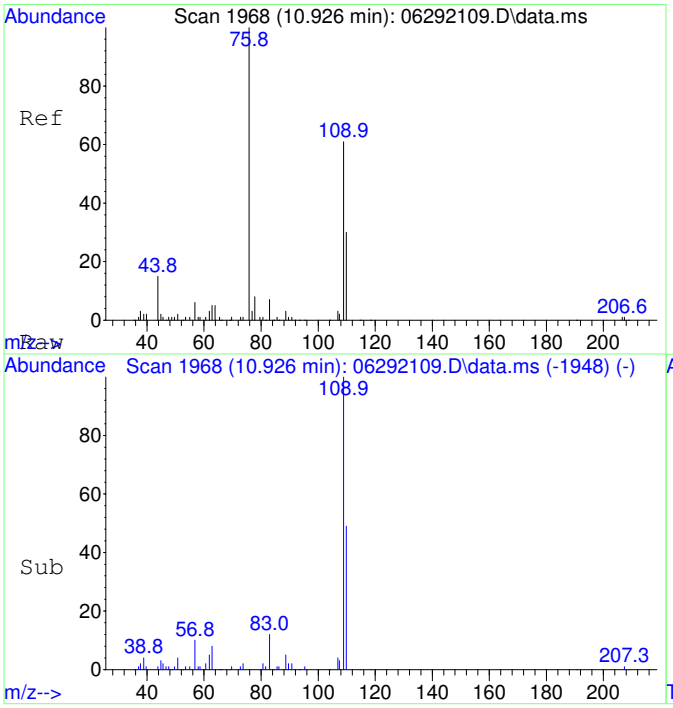


#23
1,2,4-Trimethylbenzene
Concen: 28.32 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion:105 Resp: 1057

Ion	Ratio	Lower	Upper
105	100		
120	42.9	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

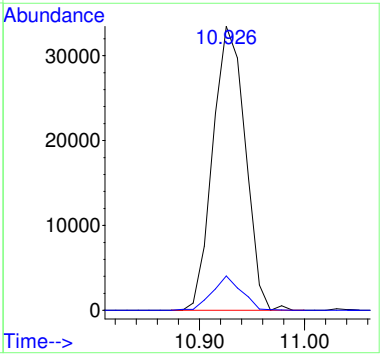


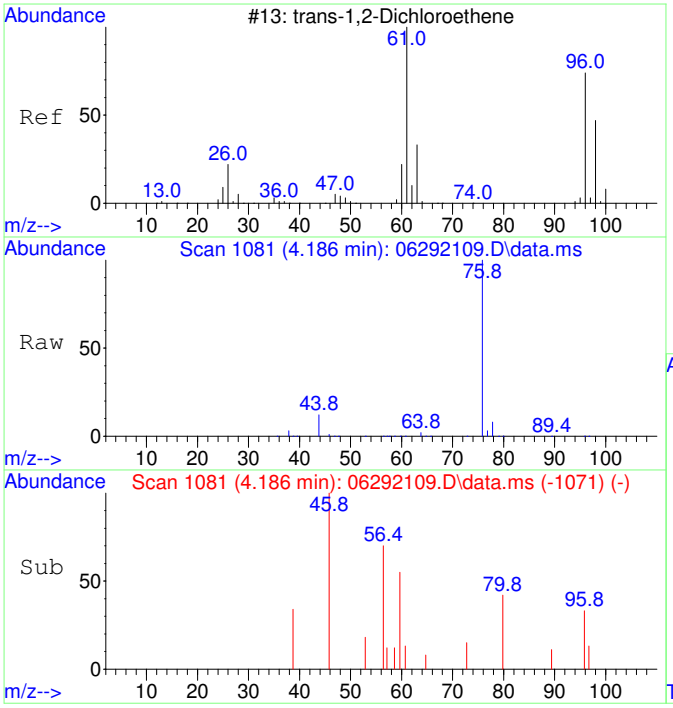


#25
2-Fluorotoluene SCAN
Concen: 4656.60 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion:109 Resp: 71683

Ion	Ratio	Lower	Upper
109	100		
83	11.0	0.0	44.5

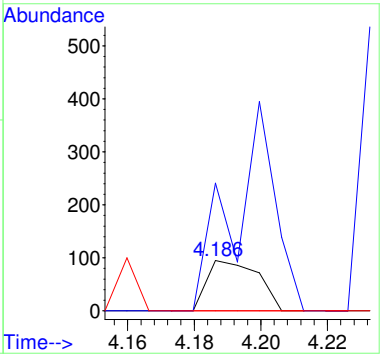


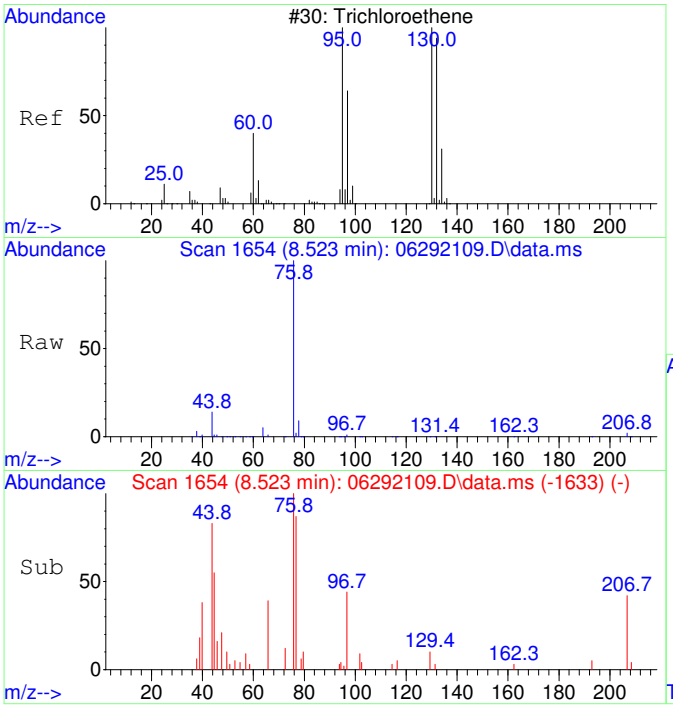


#27
trans-1,2-Dichloroethene SCAN
Concen: 28.71 ug/L
RT: 4.186 min Scan# 1081
Delta R.T. -0.033 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion: 61 Resp: 101

Ion	Ratio	Lower	Upper
61	100		
96	341.6	49.3	109.3#
98	0.0	24.0	84.0#

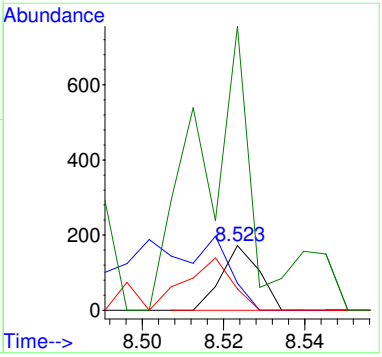


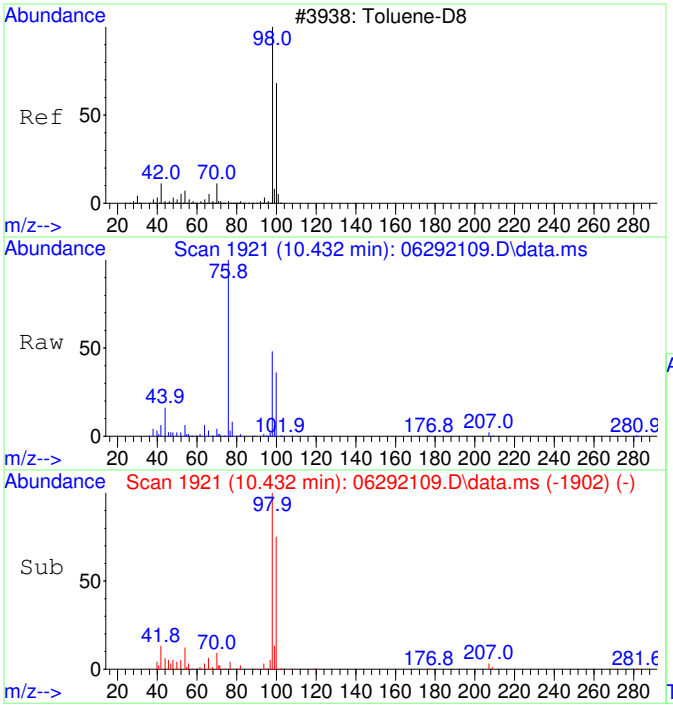


#35
Trichloroethene SCAN
Concen: 36.91 ug/L
RT: 8.523 min Scan# 1654
Delta R.T. 0.017 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion:130 Resp: 111

Ion	Ratio	Lower	Upper
130	100		
95	305.4	60.0	120.0#
132	123.4	54.3	114.3#
97	505.4	24.6	84.6#

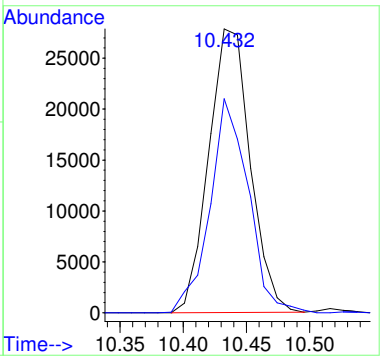


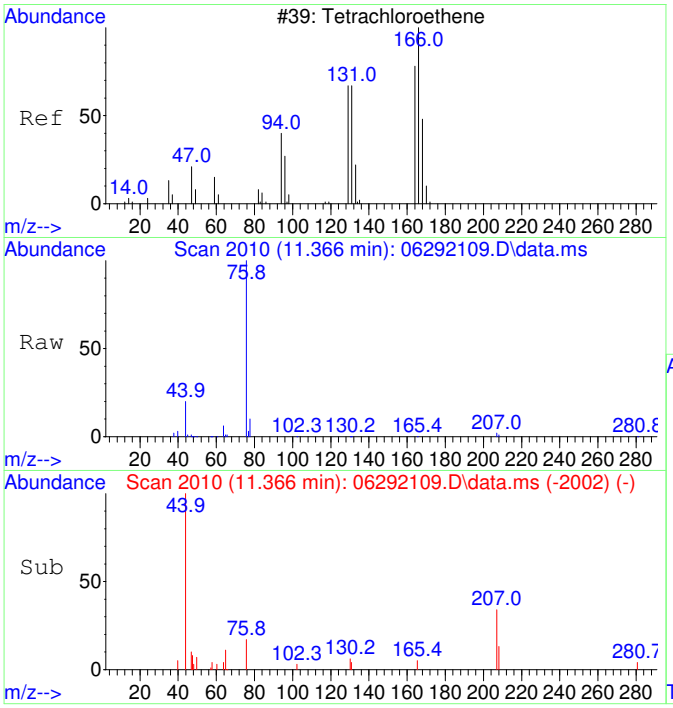


#36
Toluene-d8 SCAN
Concen: 4786.72 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion: 98 Resp: 63910

Ion	Ratio	Lower	Upper
98	100		
100	69.5	36.1	96.1

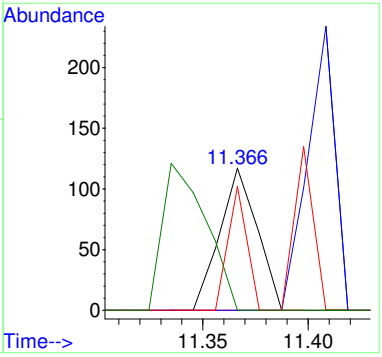




#39
Tetrachloroethene SCAN
Concen: 34.85 ug/L
RT: 11.366 min Scan# 2010
Delta R.T. -0.021 min
Lab File: 06292109.D
Acq: 29 Jun 2021 11:58

Tgt Ion:166 Resp: 145

Ion	Ratio	Lower	Upper
166	100		
164	0.0	53.9	113.9#
131	44.1	45.6	105.6#
129	0.0	51.3	111.3#



2106037-22

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292110.D
Acq On : 29 Jun 2021 12:24
InstName : AG5975C
Operator : TD
Sample : 2106037-22
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 29 12:45:39 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

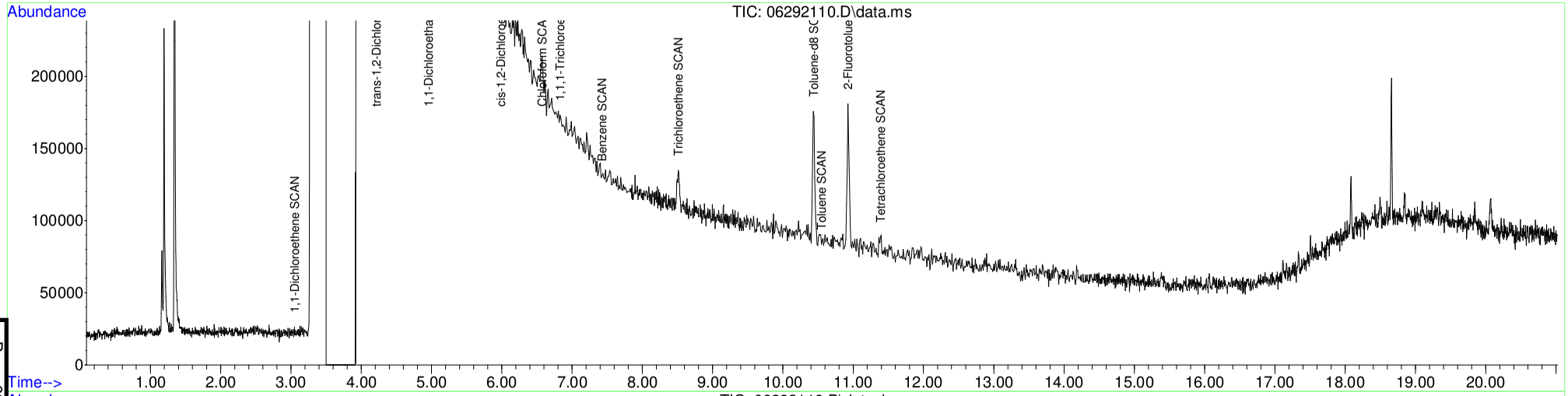
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	139088	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	120744	5068.04 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.36%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	1124	185.54 ug/L #	94
3] trans-1,2-Dichloroethene	4.214	61	313	60.04 ug/L #	94
4] 1,1-Dichloroethane	4.964	63	1123	157.05 ug/L #	79
5] cis-1,2-Dichloroethene	5.992	61	6475	945.05 ug/L #	100
6] Chloroform	6.564	83	32302	4005.91 ug/L #	99
7] 1,1,1-Trichloroethane	6.832	97	662	88.23 ug/L #	95
8] Carbon tetrachloride	7.099	117	161	24.63 ug/L #	78
11] Trichloroethene	8.514	130	18705	3100.71 ug/L	99
13] Toluene	10.528	91	1648	53.14 ug/L	100
15] Tetrachloroethene	11.389	166	5301	668.22 ug/L #	99
19] m&p-Xylene	13.122	91	1436	45.77 ug/L #	92
23] 1,2,4-Trimethylbenzene	15.868	105	1170	28.18 ug/L #	92
25) 2-Fluorotoluene SCAN	10.926	109	82668	4828.85 ug/L	96
26) 1,1-Dichloroethene SCAN	3.052	61	186	51.44 ug/L #	62
27) trans-1,2-Dichloroethe...	4.213	61	125	31.95 ug/L #	20
28) 1,1-Dichloroethane SCAN	4.956	63	263	50.17 ug/L #	51
29) cis-1,2-Dichloroethene...	5.984	61	3910	739.27 ug/L #	87
30) Chloroform SCAN	6.575	83	22742	4065.82 ug/L	90
31) 1,1,1-Trichloroethane ...	6.830	97	302	57.79 ug/L #	39
33) Benzene SCAN	7.426	78	5372	409.40 ug/L	92
35) Trichloroethene SCAN	8.513	130	10793	3227.00 ug/L	86
36) Toluene-d8 SCAN	10.432	98	71924	4843.91 ug/L	95
37) Toluene SCAN	10.548	91	877	45.64 ug/L #	71
39) Tetrachloroethene SCAN	11.387	166	1903	411.21 ug/L #	26

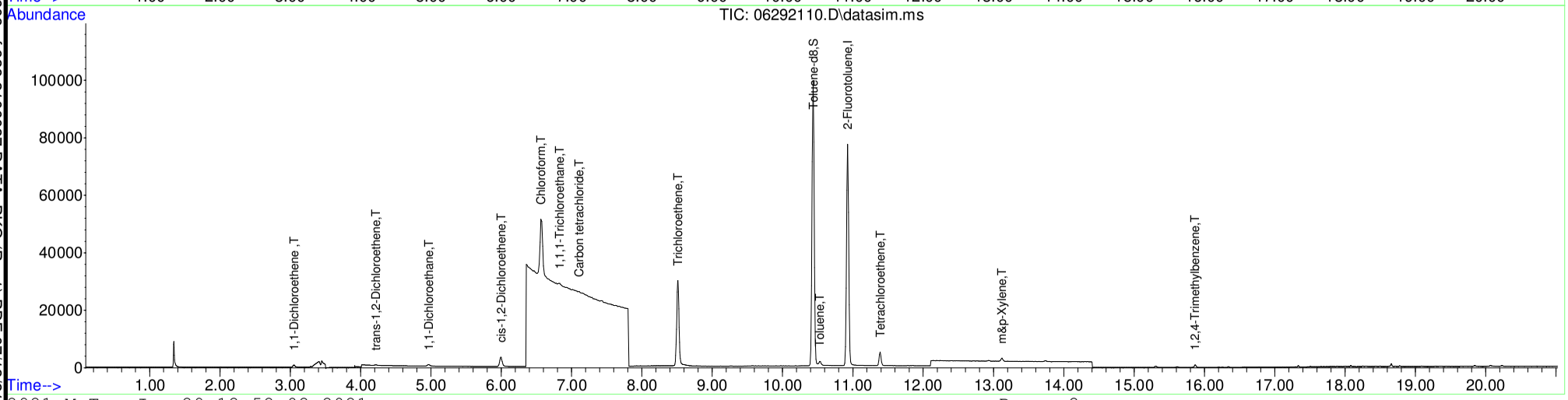
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292110.D
Acq On : 29 Jun 2021 12:24
InstName : AG5975C
Operator : TD
Sample : 2106037-22
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 29 12:45:39 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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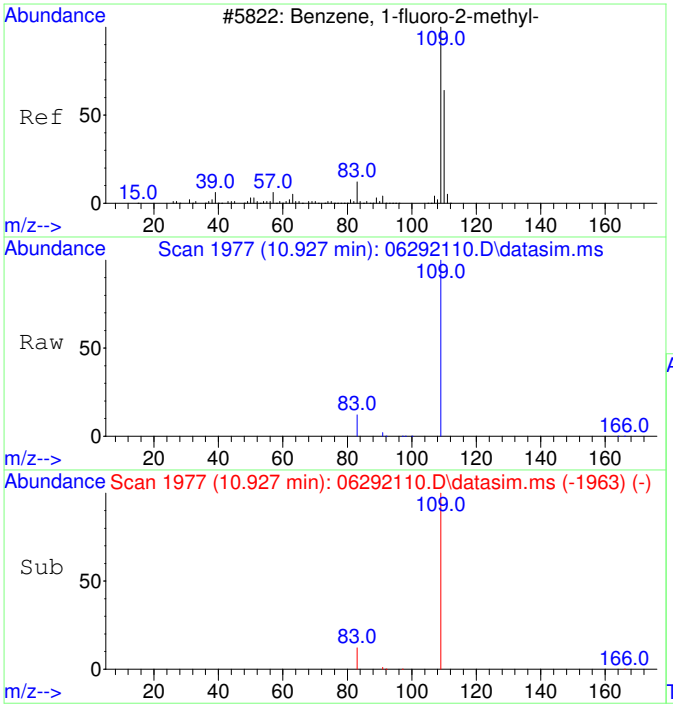
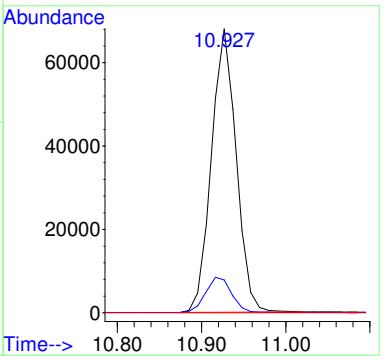
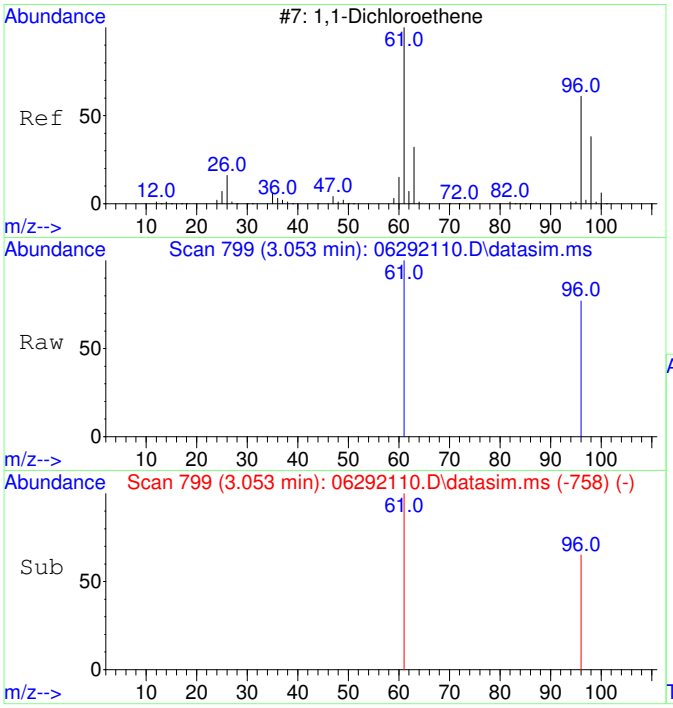


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion:109 Resp: 139088

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

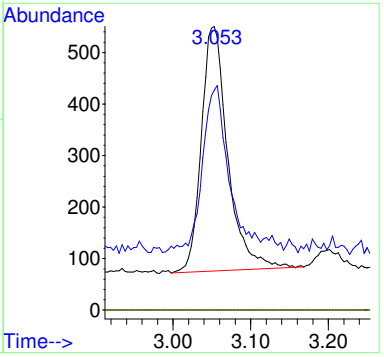


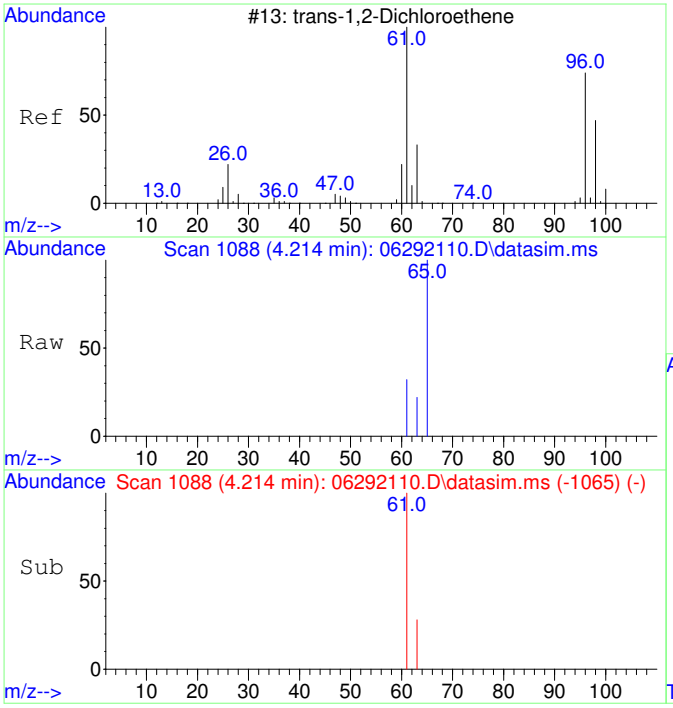


#2
1,1-Dichloroethene
Concen: 185.54 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 61 Resp: 1124

Ion	Ratio	Lower	Upper
61	100		
96	69.4	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

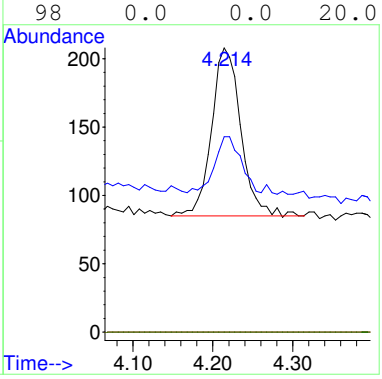


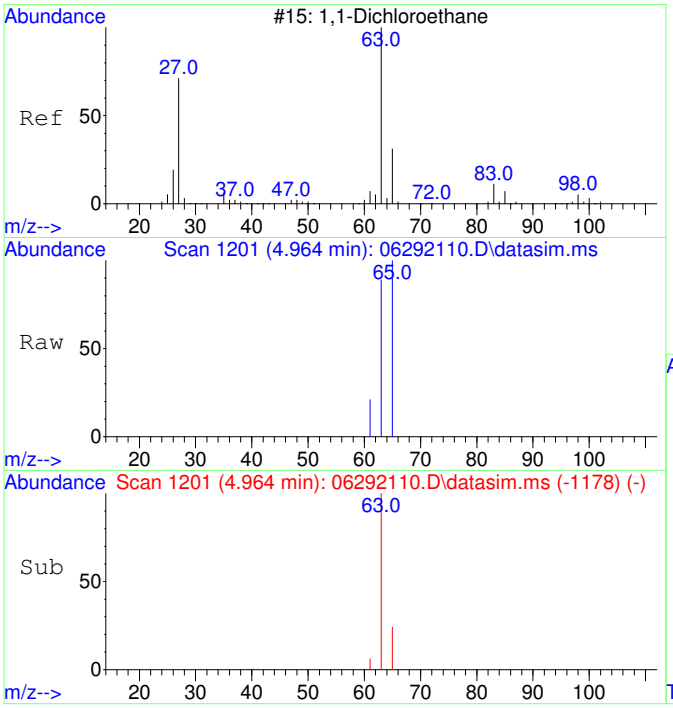


#3
trans-1,2-Dichloroethene
Concen: 60.04 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 61 Resp: 313

Ion	Ratio	Lower	Upper
61	100		
63	29.4	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

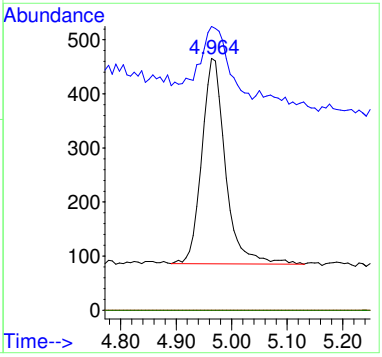


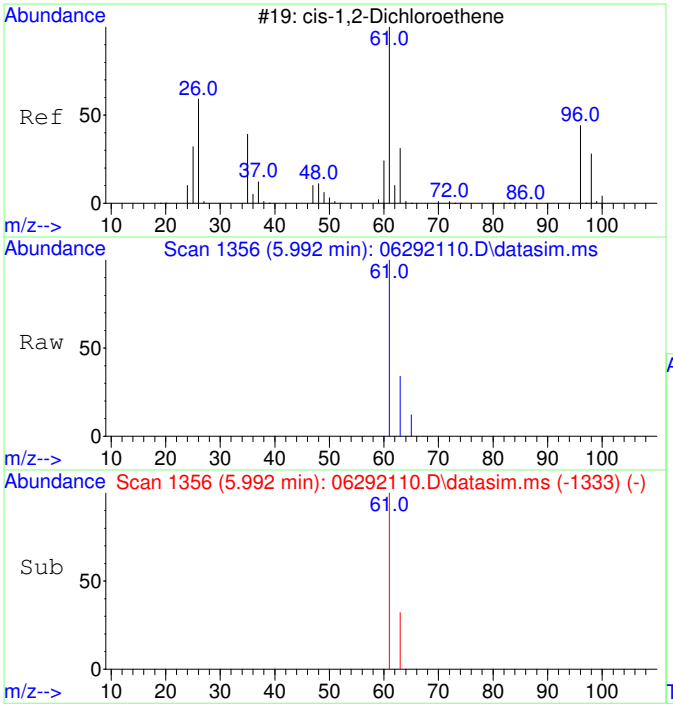


#4
1,1-Dichloroethane
Concen: 157.05 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 63 Resp: 1123

Ion	Ratio	Lower	Upper
63	100		
65	43.0	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

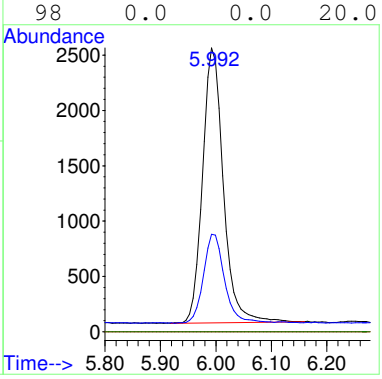


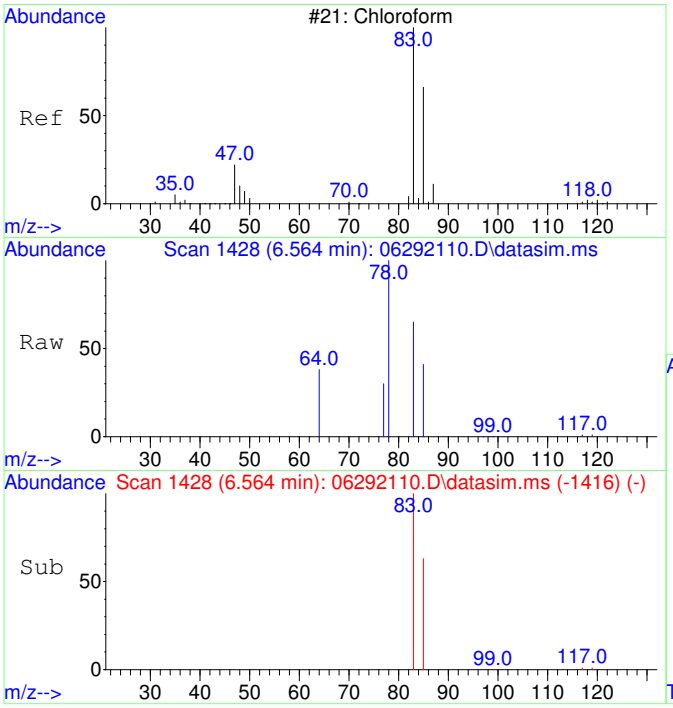


#5
cis-1,2-Dichloroethene
Concen: 945.05 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 61 Resp: 6475

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

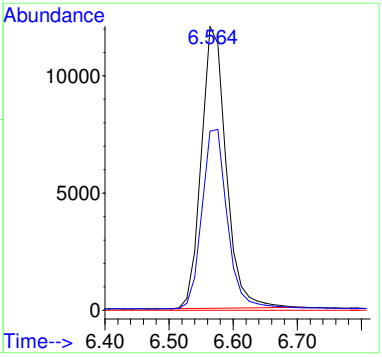


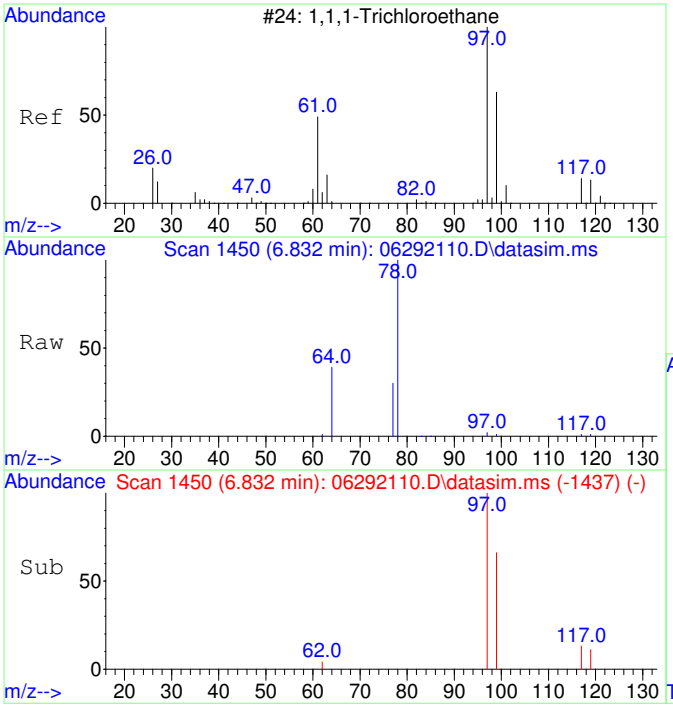


#6
Chloroform
Concen: 4005.91 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 83 Resp: 32302

Ion	Ratio	Lower	Upper
83	100		
85	64.9	34.5	94.5
87	0.0	0.0	20.0

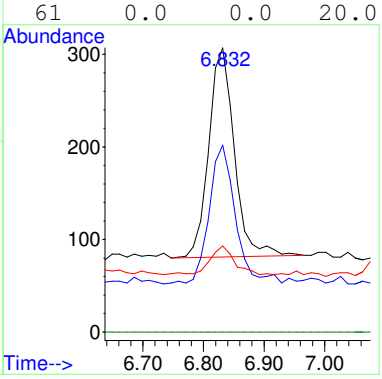


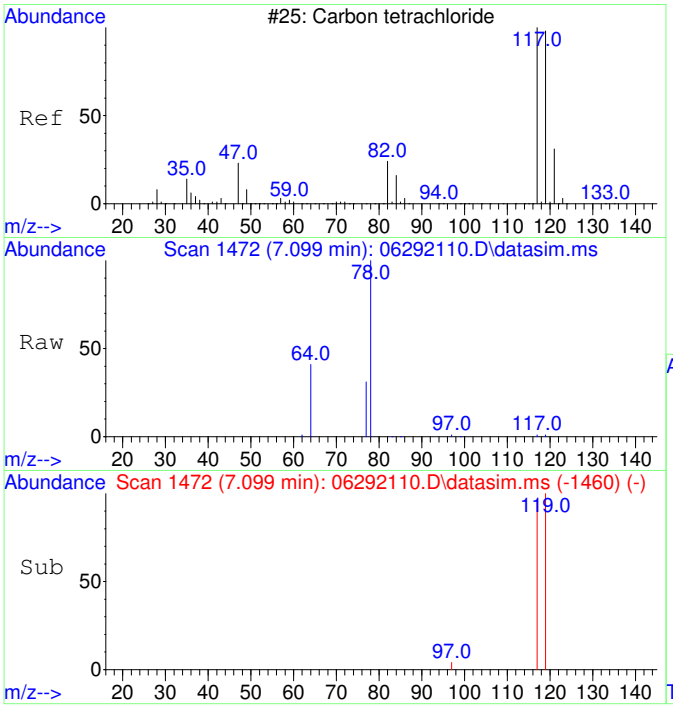


#7
1,1,1-Trichloroethane
Concen: 88.23 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 97 Resp: 662

Ion	Ratio	Lower	Upper
97	100		
99	69.3	34.4	94.4
117	13.1	0.0	42.8
61	0.0	0.0	20.0

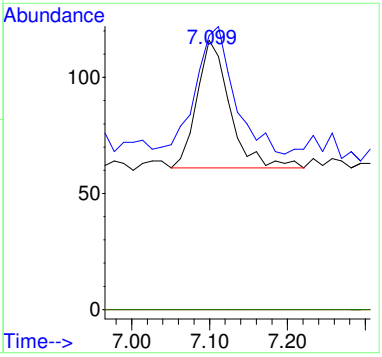


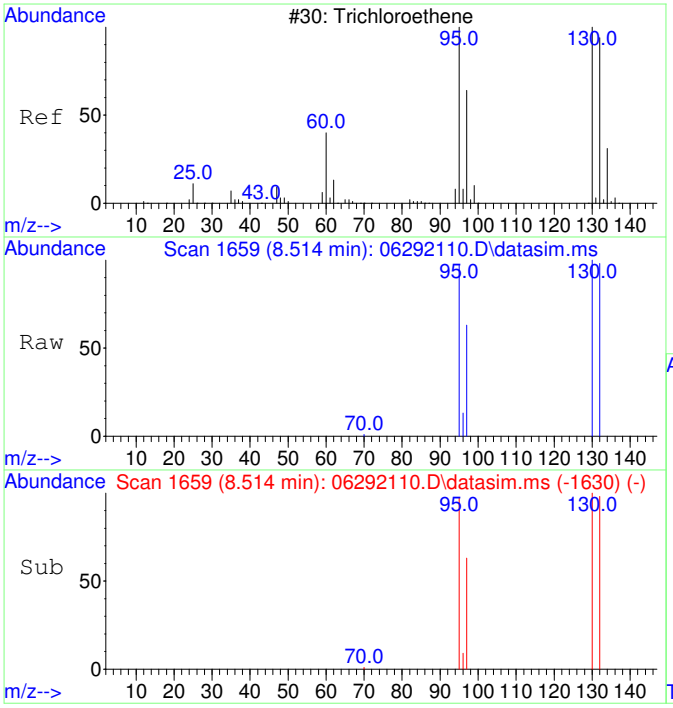


#8
Carbon tetrachloride
Concen: 24.63 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion:117 Resp: 161

Ion	Ratio	Lower	Upper
117	100		
119	118.0	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

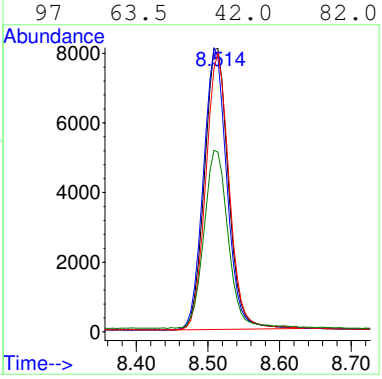


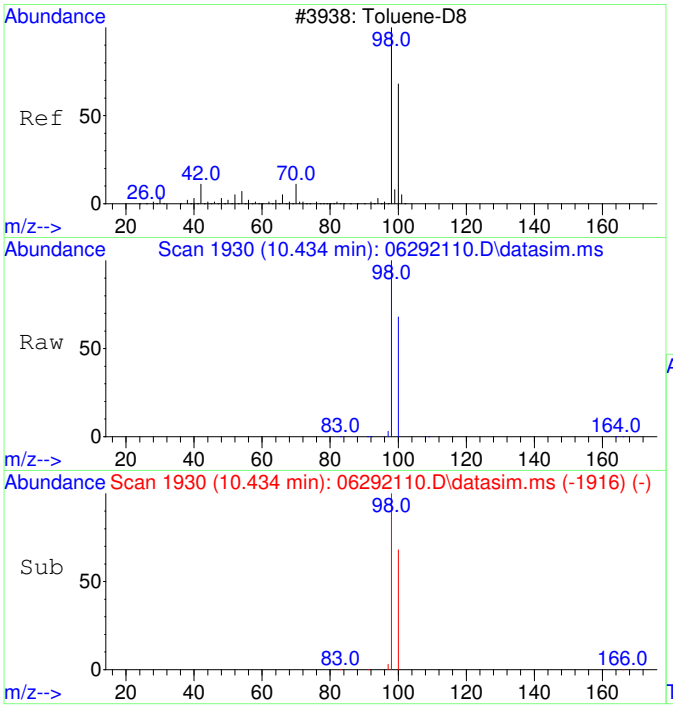


#11
Trichloroethene
Concen: 3100.71 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion:130 Resp: 18705

Ion	Ratio	Lower	Upper
130	100		
95	97.9	65.8	125.8
132	95.5	75.8	115.8
97	63.5	42.0	82.0

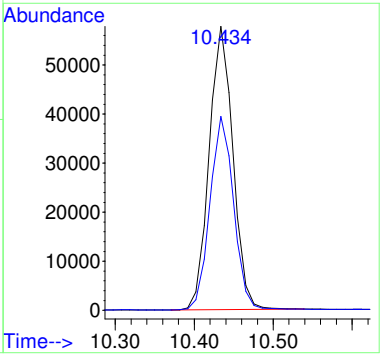


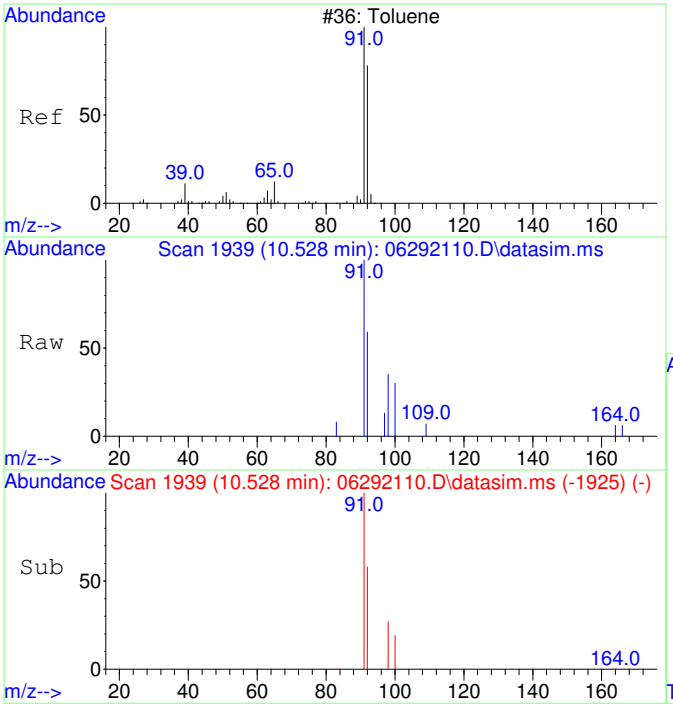


#12
Toluene-d8
Concen: 5068.04 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 98 Resp: 120744

Ion	Ratio	Lower	Upper
98	100		
100	67.5	37.3	97.3

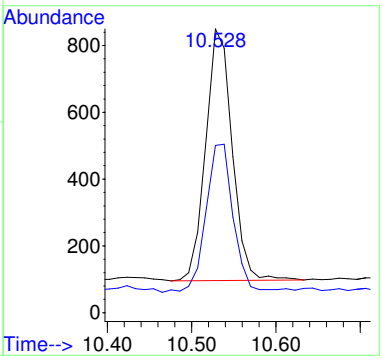


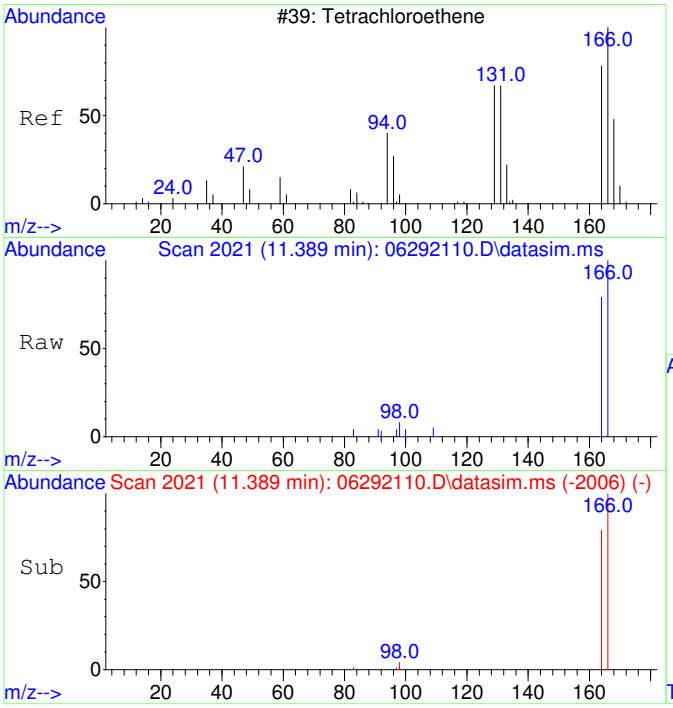


#13
Toluene
Concen: 53.14 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 91 Resp: 1648

Ion	Ratio	Lower	Upper
91	100		
92	60.4	30.2	90.2

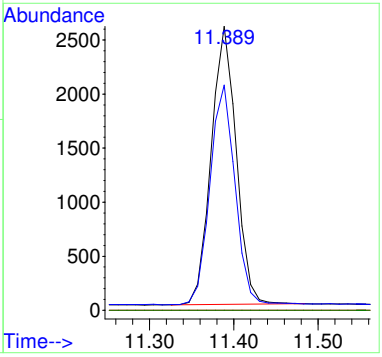


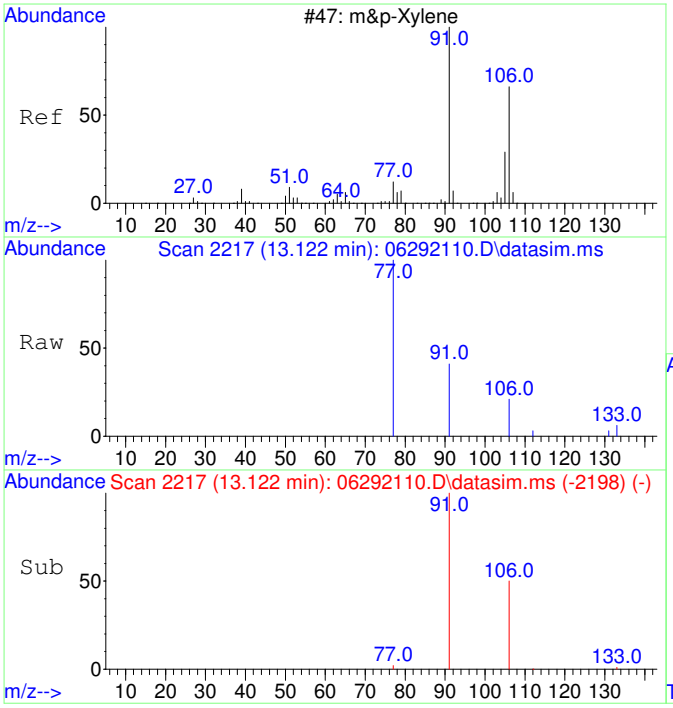


#15
Tetrachloroethene
Concen: 668.22 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion:166 Resp: 5301

Ion	Ratio	Lower	Upper
166	100		
164	78.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

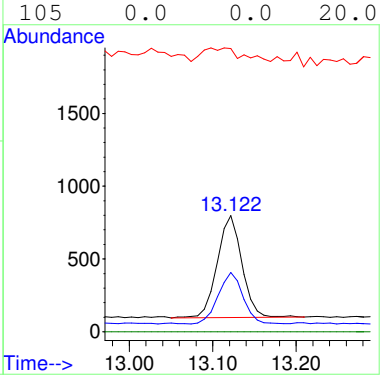


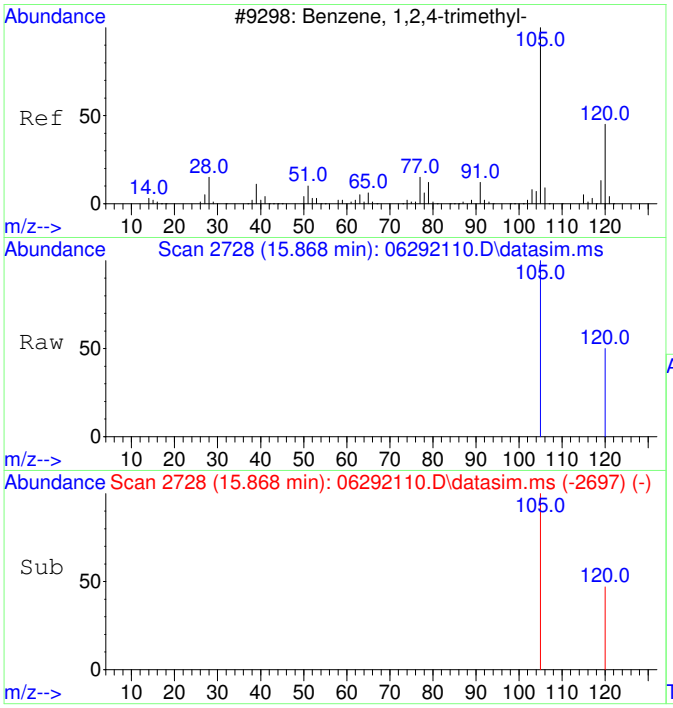


#19
m&p-Xylene
Concen: 45.77 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 91 Resp: 1436

Ion	Ratio	Lower	Upper
91	100		
106	50.3	21.4	81.4
77	0.0	0.0	42.7
105	0.0	0.0	20.0

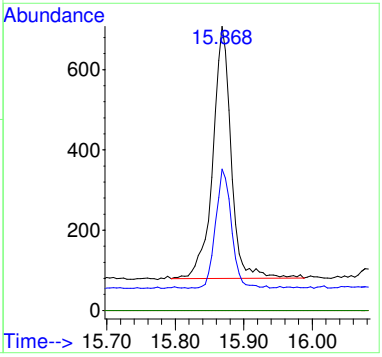


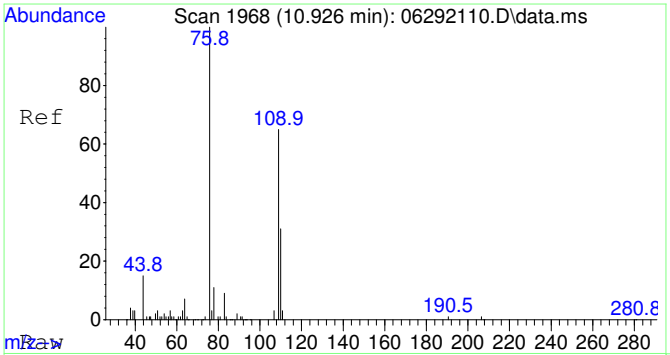


#23
1,2,4-Trimethylbenzene
Concen: 28.18 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion:105 Resp: 1170

Ion	Ratio	Lower	Upper
105	100		
120	41.0	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

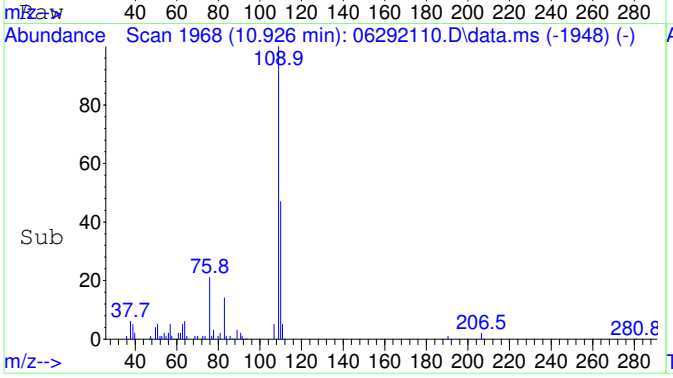


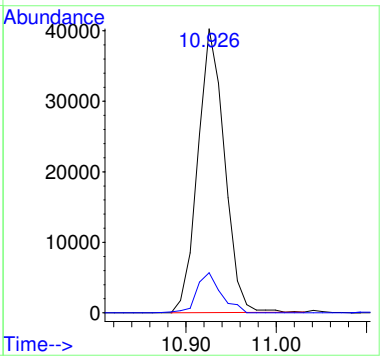


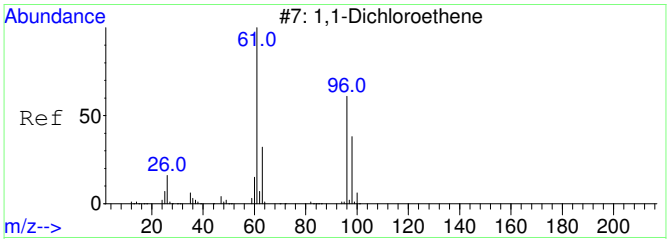
#25
2-Fluorotoluene SCAN
Concen: 4828.85 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion:109 Resp: 82668

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.5



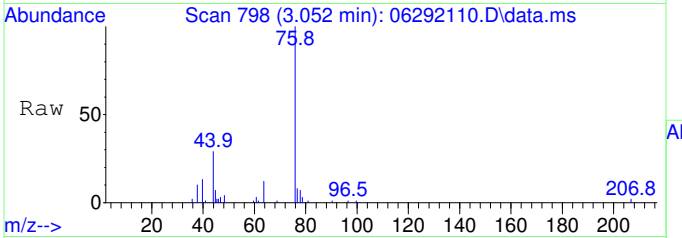


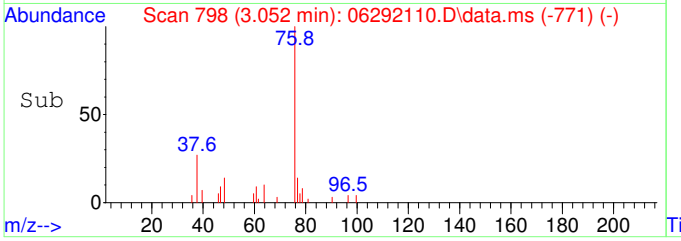


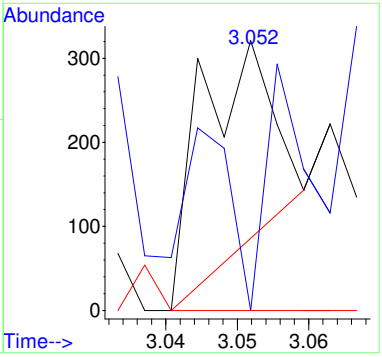
#26
1,1-Dichloroethene SCAN
Concen: 51.44 ug/L
RT: 3.052 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

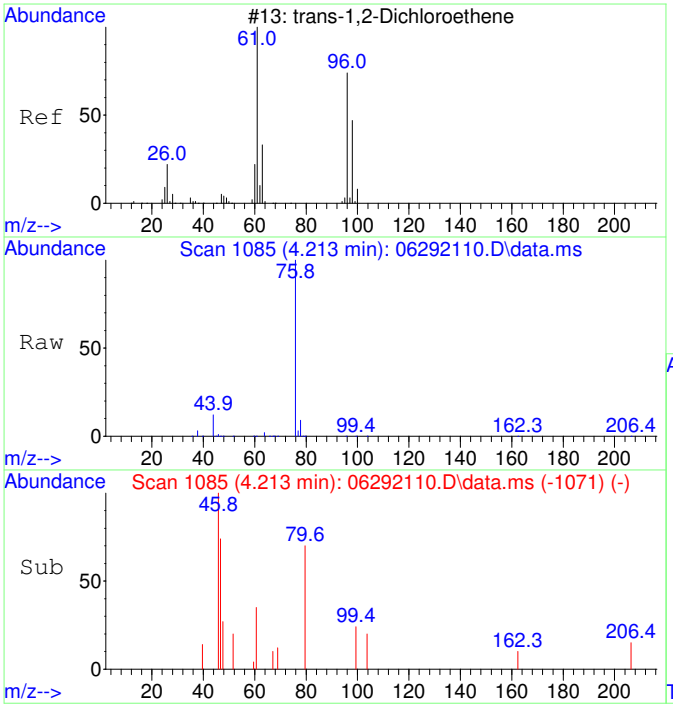
Tgt Ion: 61 Resp: 186

Ion	Ratio	Lower	Upper
61	100		
96	48.4	33.0	93.0
98	0.0	12.5	72.5#





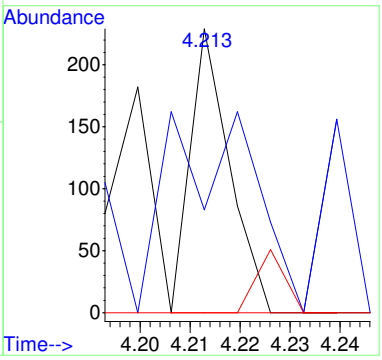


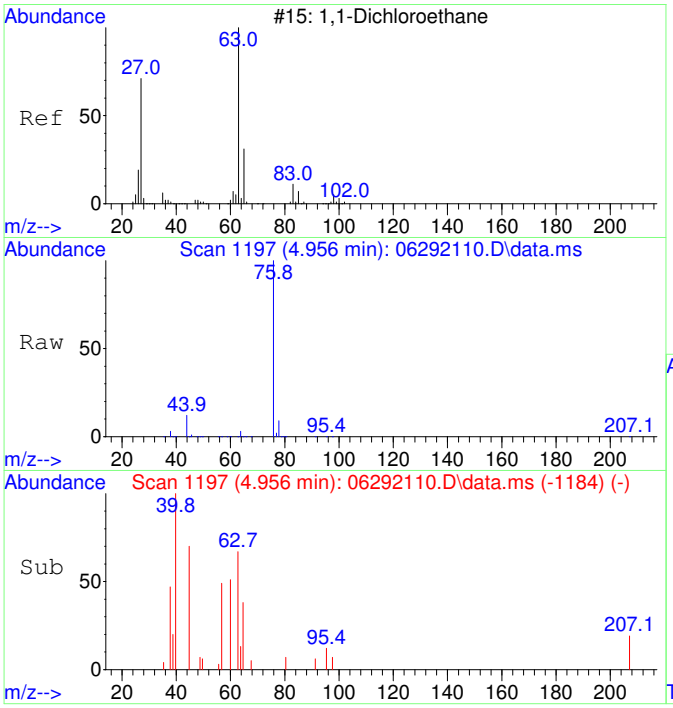


#27
trans-1,2-Dichloroethene SCAN
Concen: 31.95 ug/L
RT: 4.213 min Scan# 1085
Delta R.T. -0.006 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 61 Resp: 125

Ion	Ratio	Lower	Upper
61	100		
96	152.8	49.3	109.3#
98	0.0	24.0	84.0#

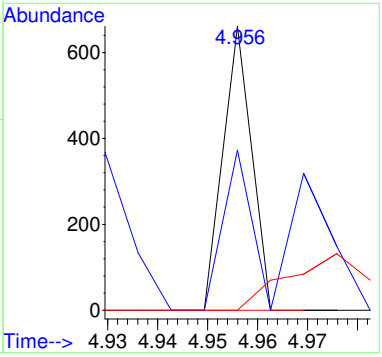


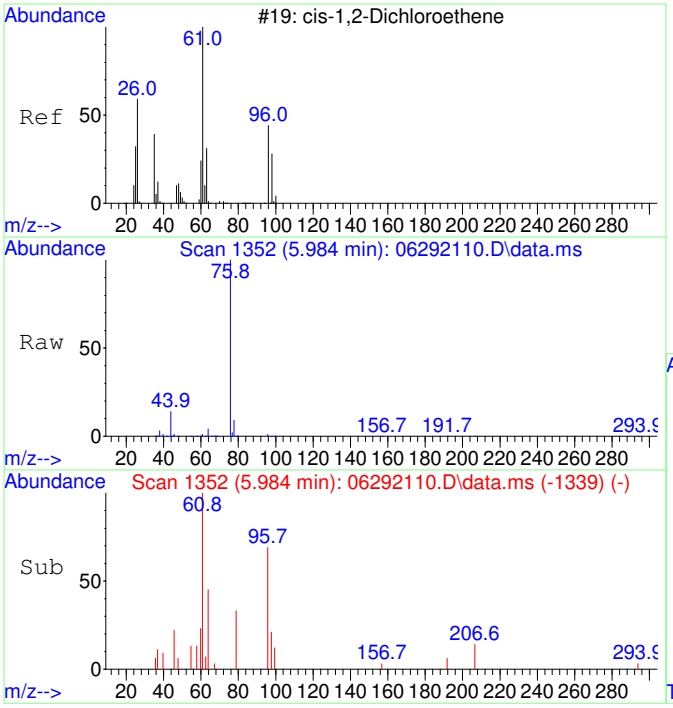


#28
1,1-Dichloroethane SCAN
Concen: 50.17 ug/L
RT: 4.956 min Scan# 1197
Delta R.T. -0.013 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 63 Resp: 263

Ion	Ratio	Lower	Upper
63	100		
65	56.3	0.0	57.3
83	0.0	0.0	46.2

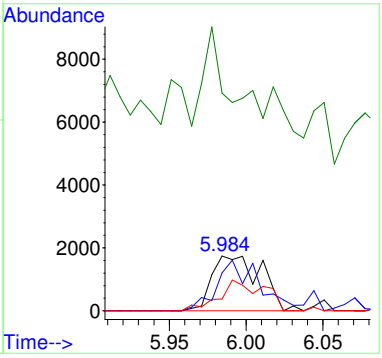


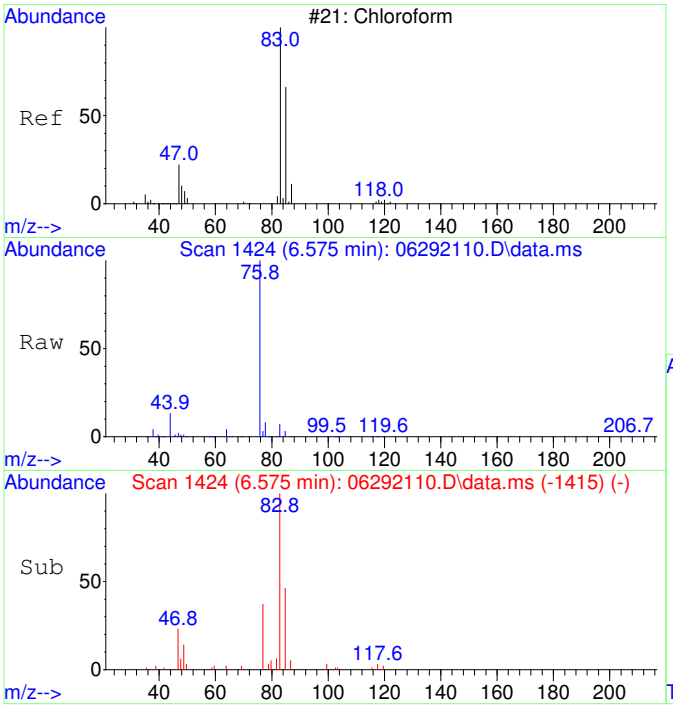


#29
cis-1,2-Dichloroethene SCAN
Concen: 739.27 ug/L
RT: 5.984 min Scan# 1352
Delta R.T. -0.013 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 61 Resp: 3910

Ion	Ratio	Lower	Upper
61	100		
96	67.9	36.9	96.9
98	49.6	12.1	72.1
64	121.4	0.0	32.6#

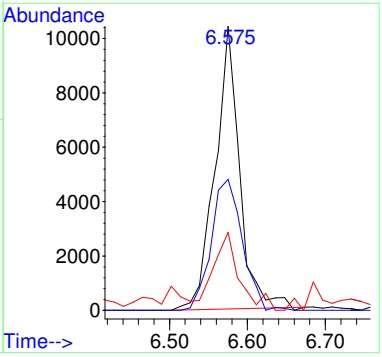


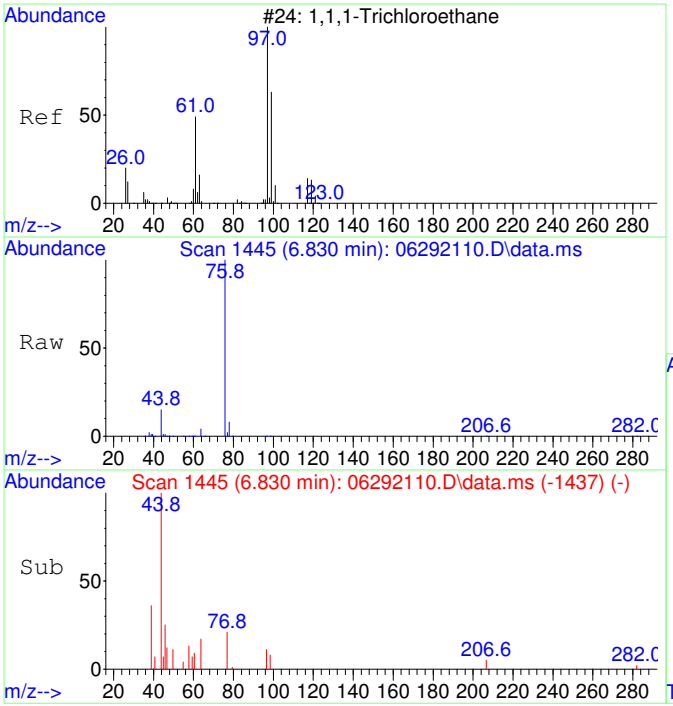


#30
Chloroform SCAN
Concen: 4065.82 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 83 Resp: 22742

Ion	Ratio	Lower	Upper
83	100		
85	58.8	27.1	87.1
47	24.7	7.5	67.5

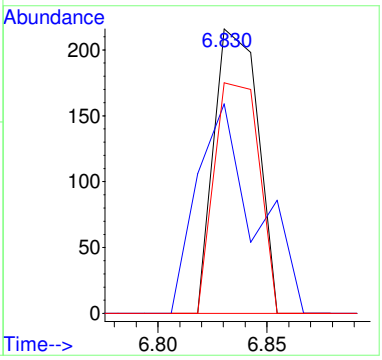


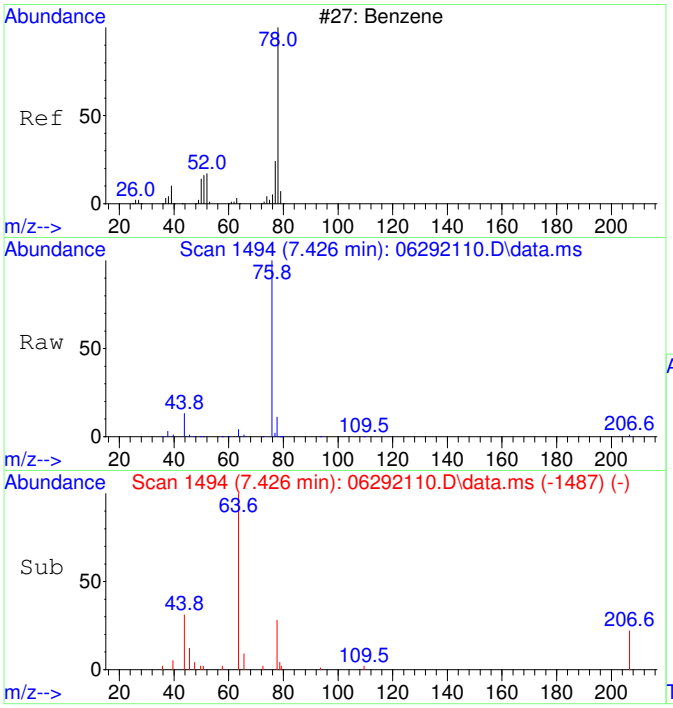


#31
1,1,1-Trichloroethane SCAN
Concen: 57.79 ug/L
RT: 6.830 min Scan# 1445
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 97 Resp: 302

Ion	Ratio	Lower	Upper
97	100		
99	98.0	26.5	86.5#
61	83.4	11.4	71.4#

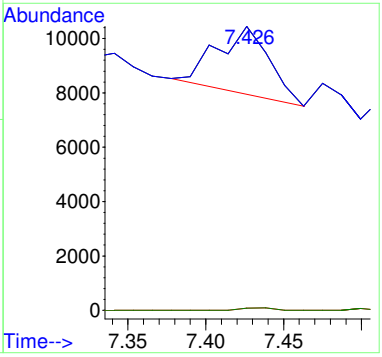


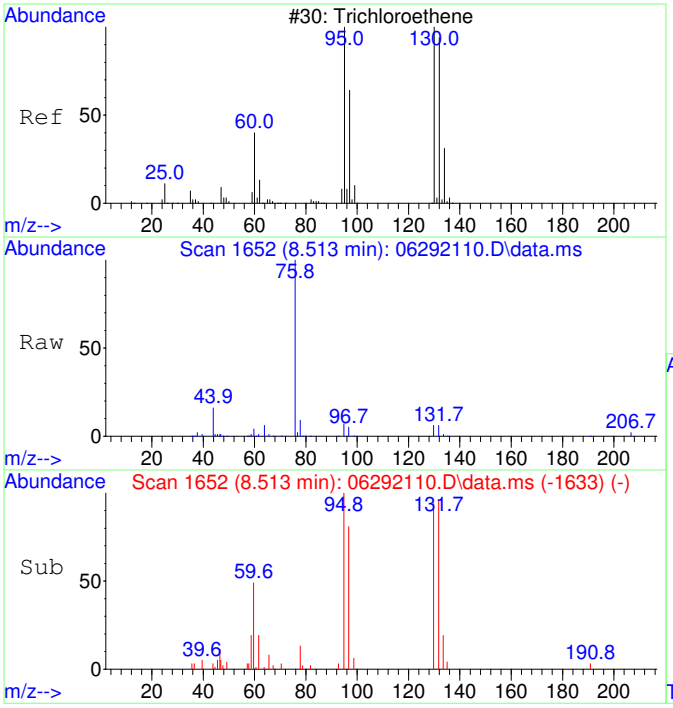


#33
Benzene SCAN
Concen: 409.40 ug/L
RT: 7.426 min Scan# 1494
Delta R.T. -0.012 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 78 Resp: 5372

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.3	0.0	46.7
51	2.3	0.0	46.7

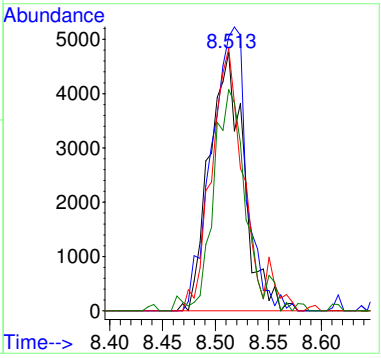


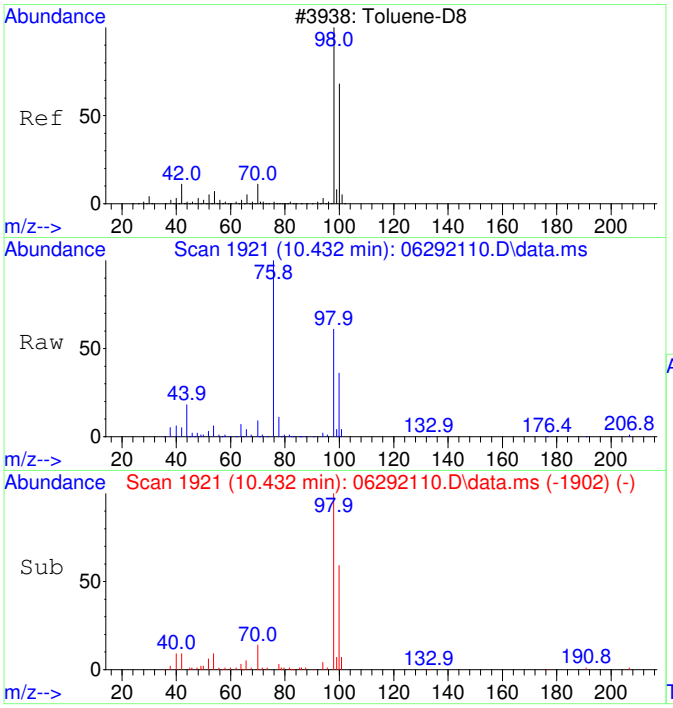


#35
Trichloroethene SCAN
Concen: 3227.00 ug/L
RT: 8.513 min Scan# 1652
Delta R.T. 0.006 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion:130 Resp: 10793

Ion	Ratio	Lower	Upper
130	100		
95	111.6	60.0	120.0
132	85.3	54.3	114.3
97	69.1	24.6	84.6

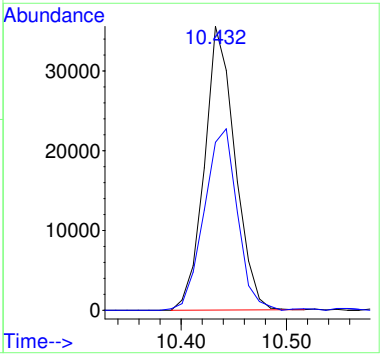


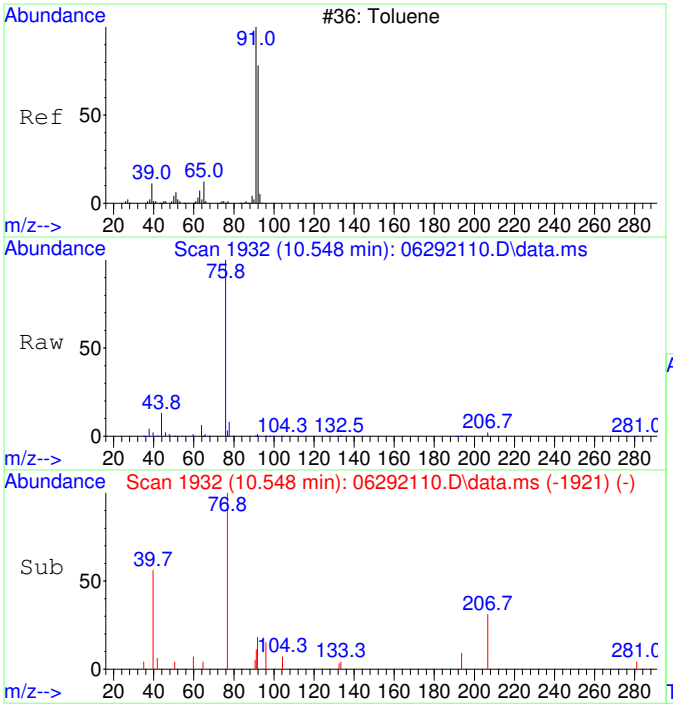


#36
Toluene-d8 SCAN
Concen: 4843.91 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 98 Resp: 71924

Ion	Ratio	Lower	Upper
98	100		
100	69.8	36.1	96.1

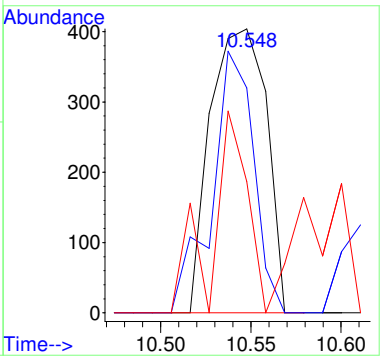


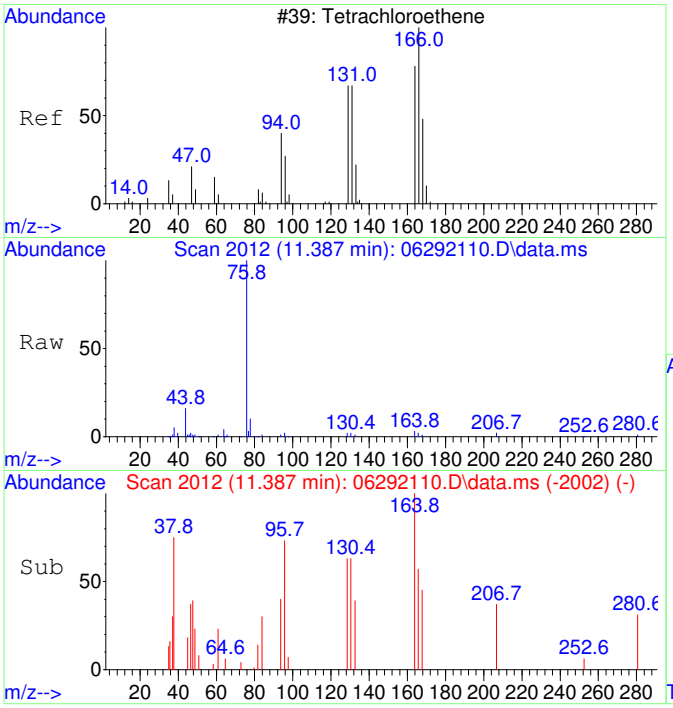


#37
Toluene SCAN
Concen: 45.64 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion: 91 Resp: 877

Ion	Ratio	Lower	Upper
91	100		
92	68.6	26.5	86.5
65	45.3	0.0	40.6#

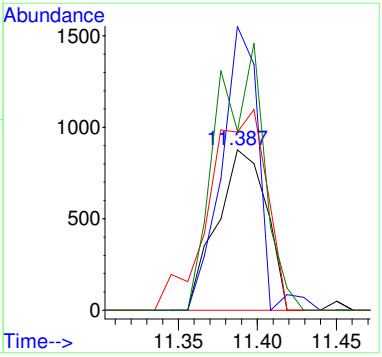




#39
Tetrachloroethene SCAN
Concen: 411.21 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292110.D
Acq: 29 Jun 2021 12:24

Tgt Ion:166 Resp: 1903

Ion	Ratio	Lower	Upper
166	100		
164	134.5	53.9	113.9#
131	145.3	45.6	105.6#
129	158.7	51.3	111.3#



2106037-23

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292111.D
Acq On : 29 Jun 2021 12:50
InstName : AG5975C
Operator : TD
Sample : 2106037-23
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 29 13:12:03 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

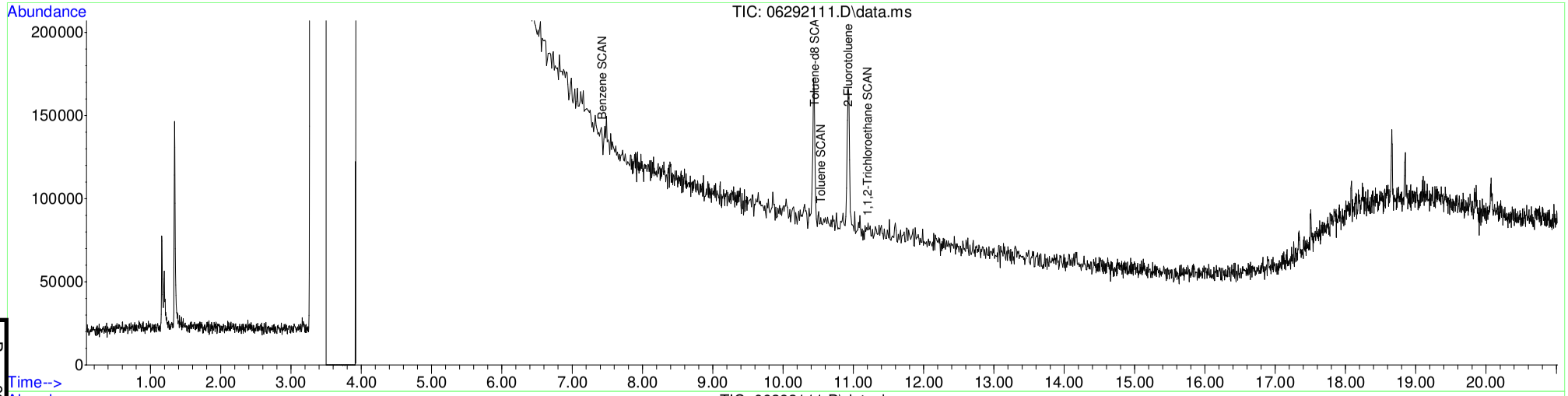
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	134099	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.433	98	115839	5043.05	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.86%			
Target Compounds						Qvalue
11] Trichloroethene	8.514	130	153	26.31	ug/L	81
23] 1,2,4-Trimethylbenzene	15.843	105	1300	32.48	ug/L #	30
25) 2-Fluorotoluene SCAN	10.925	109	76621	4642.14	ug/L	99
33) Benzene SCAN	7.426	78	4372	345.58	ug/L #	90
36) Toluene-d8 SCAN	10.443	98	65557	4579.36	ug/L	89
37) Toluene SCAN	10.537	91	711	38.37	ug/L	78
38) 1,1,2-Trichloroethane ...	11.198	97	205	46.45	ug/L #	38

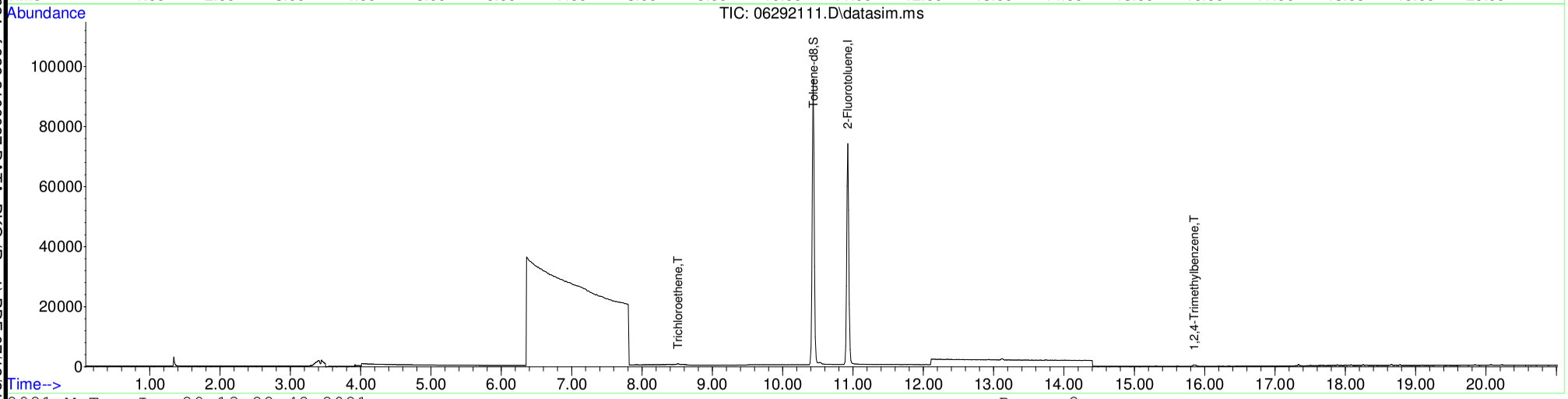
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292111.D
Acq On : 29 Jun 2021 12:50
InstName : AG5975C
Operator : TD
Sample : 2106037-23
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 29 13:12:03 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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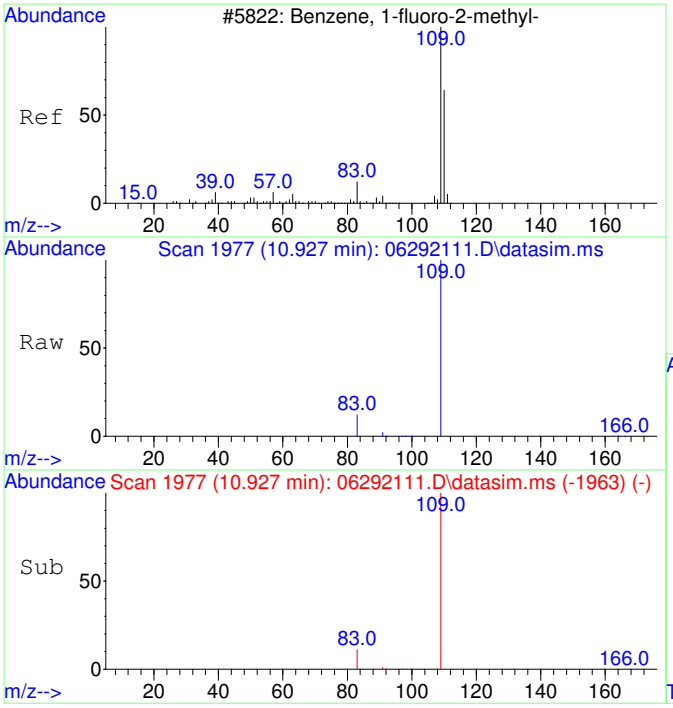
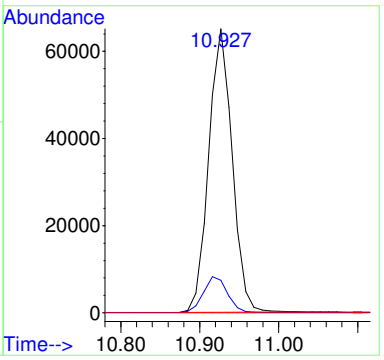
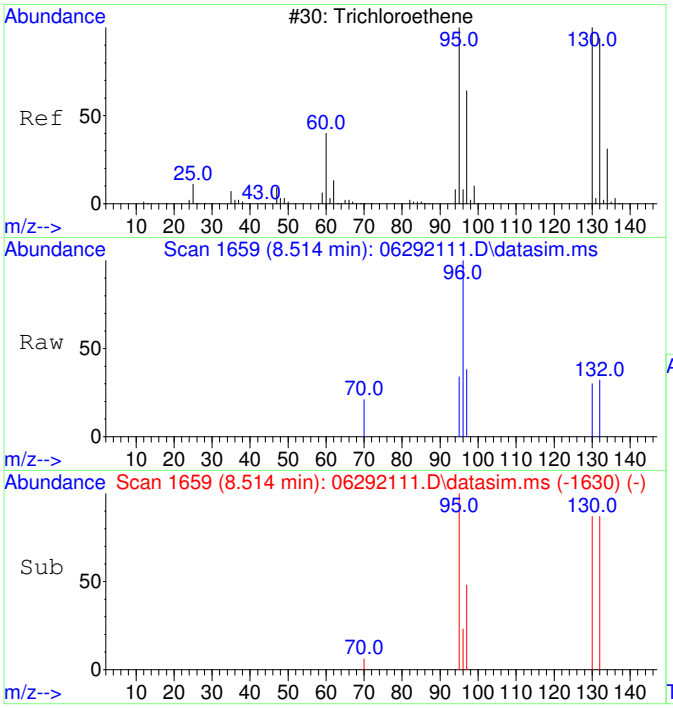


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292111.D
Acq: 29 Jun 2021 12:50

Tgt Ion:109 Resp: 134099

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

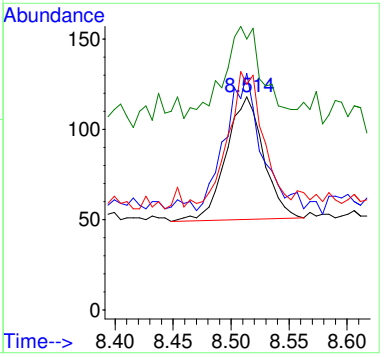


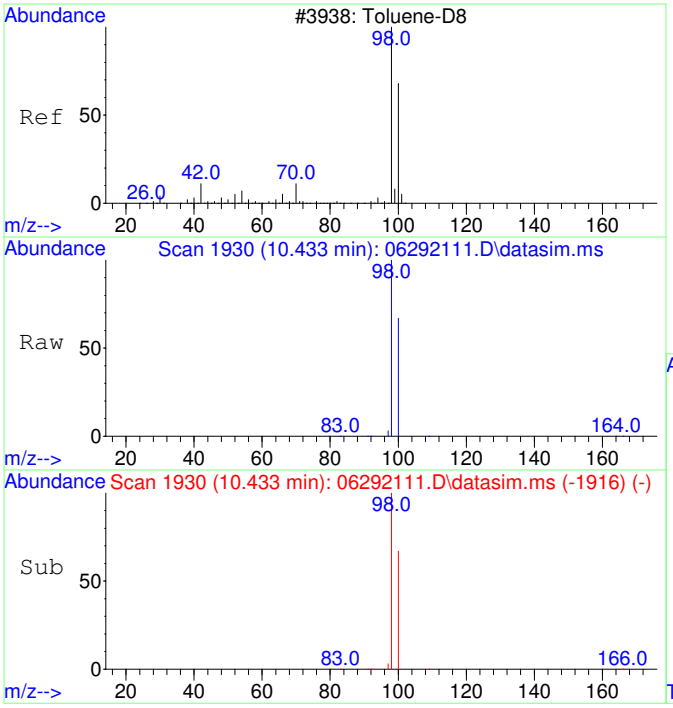


#11
Trichloroethene
Concen: 26.31 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06292111.D
Acq: 29 Jun 2021 12:50

Tgt Ion:130 Resp: 153

Ion	Ratio	Lower	Upper
130	100		
95	117.6	65.8	125.8
132	110.5	75.8	115.8
97	77.1	42.0	82.0

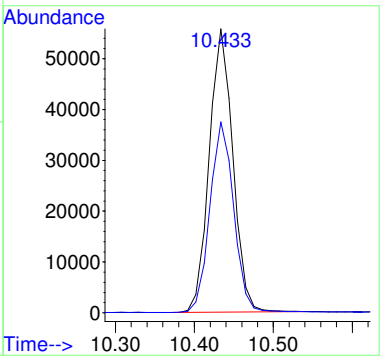


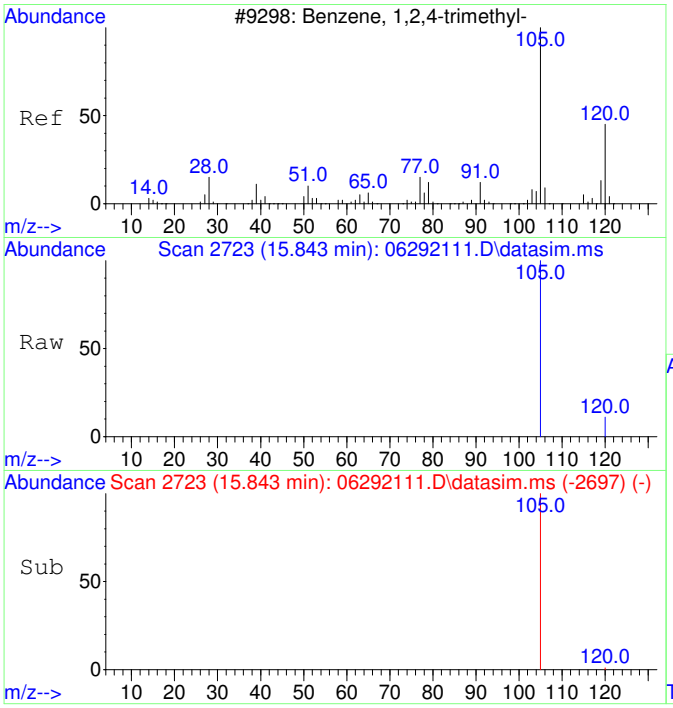


#12
Toluene-d8
Concen: 5043.05 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292111.D
Acq: 29 Jun 2021 12:50

Tgt Ion: 98 Resp: 115839

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.3	97.3

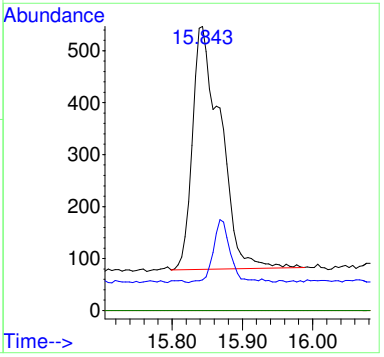


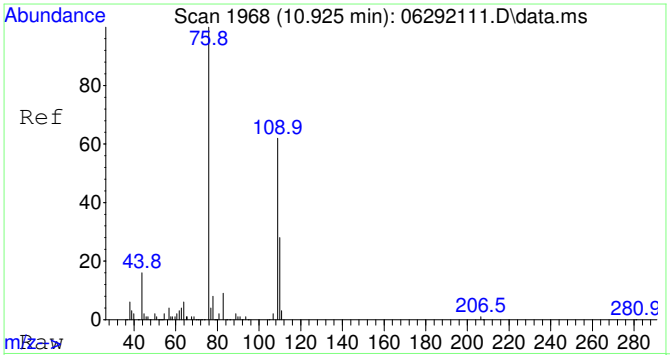


#23
1,2,4-Trimethylbenzene
Concen: 32.48 ug/L
RT: 15.843 min Scan# 2723
Delta R.T. -0.020 min
Lab File: 06292111.D
Acq: 29 Jun 2021 12:50

Tgt Ion:105 Resp: 1300

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

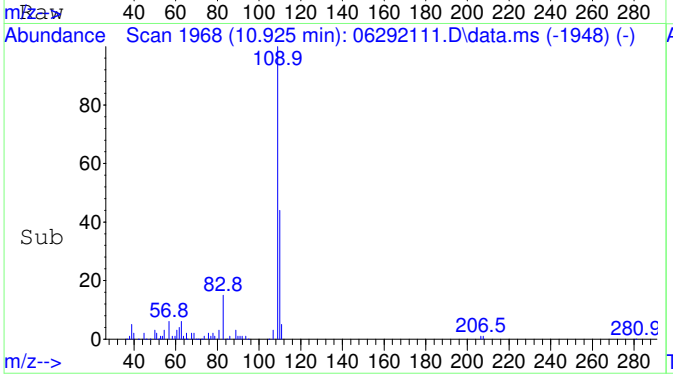


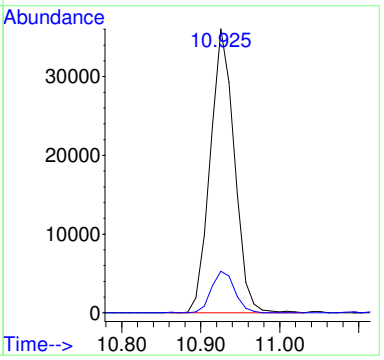


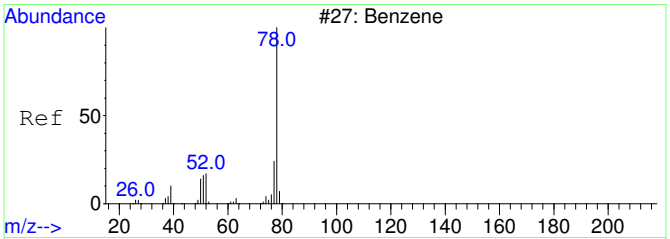
#25
2-Fluorotoluene SCAN
Concen: 4642.14 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292111.D
Acq: 29 Jun 2021 12:50

Tgt Ion:109 Resp: 76621

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	44.5



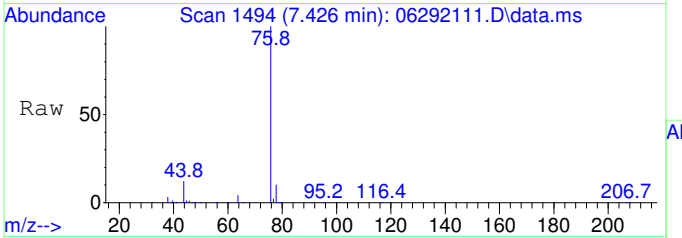


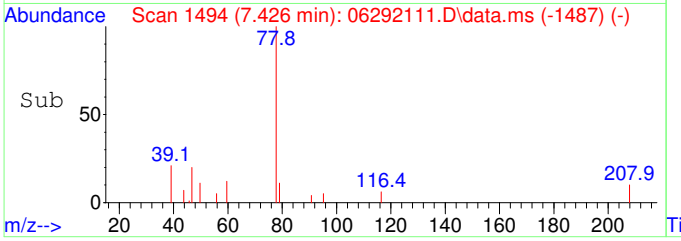


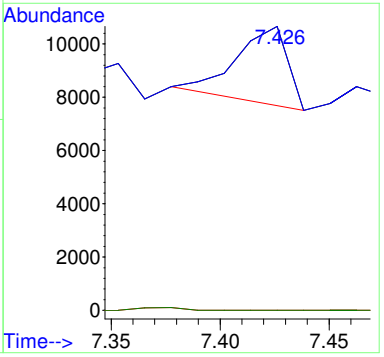
#33
Benzene SCAN
Concen: 345.58 ug/L
RT: 7.426 min Scan# 1494
Delta R.T. -0.012 min
Lab File: 06292111.D
Acq: 29 Jun 2021 12:50

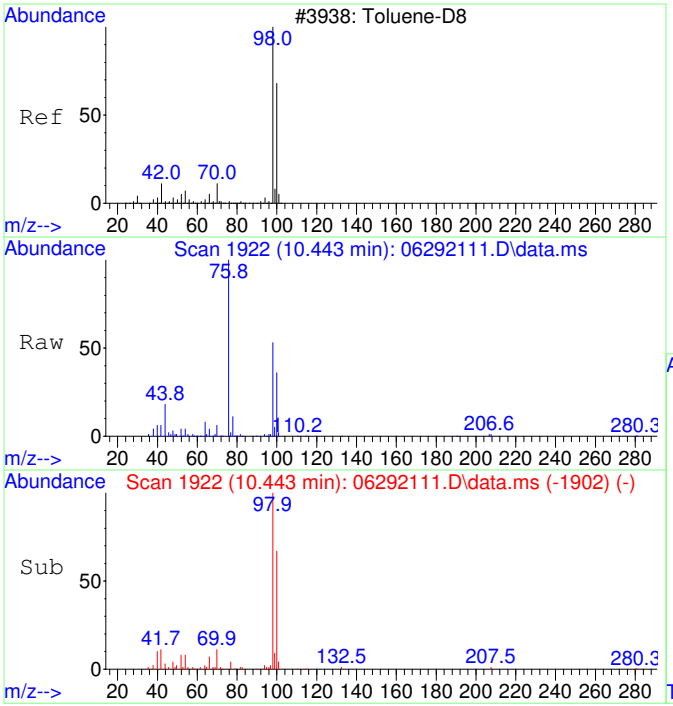
Tgt Ion: 78 Resp: 4372

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7





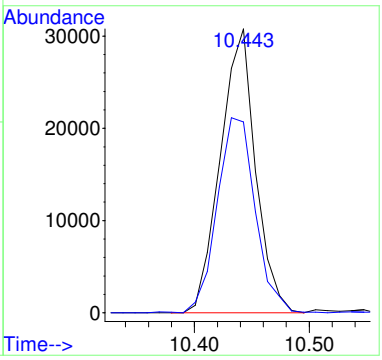


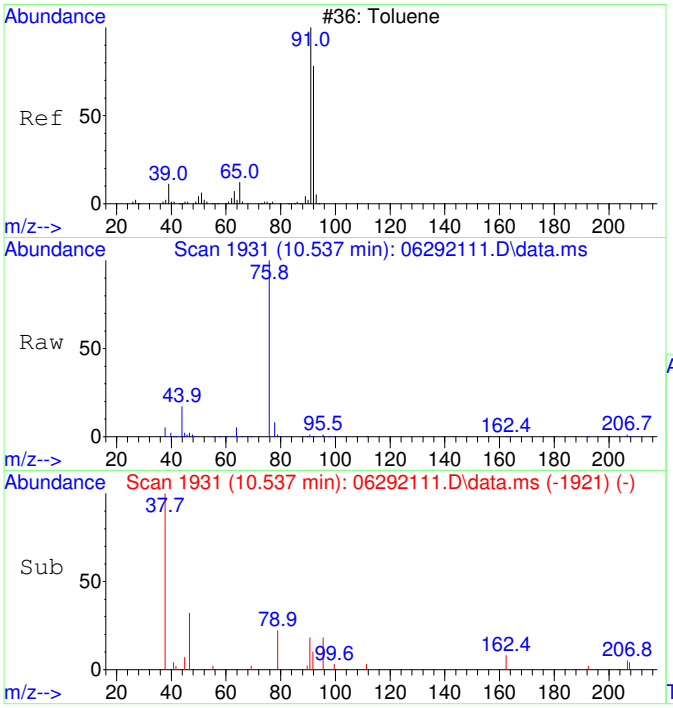


#36
Toluene-d8 SCAN
Concen: 4579.36 ug/L
RT: 10.443 min Scan# 1922
Delta R.T. 0.011 min
Lab File: 06292111.D
Acq: 29 Jun 2021 12:50

Tgt Ion: 98 Resp: 65557

Ion	Ratio	Lower	Upper
98	100		
100	74.7	36.1	96.1

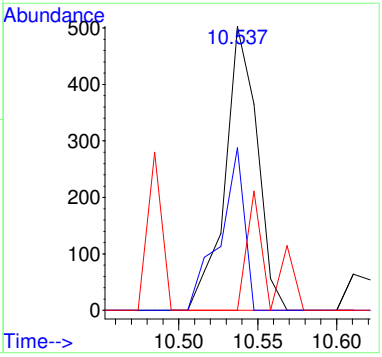


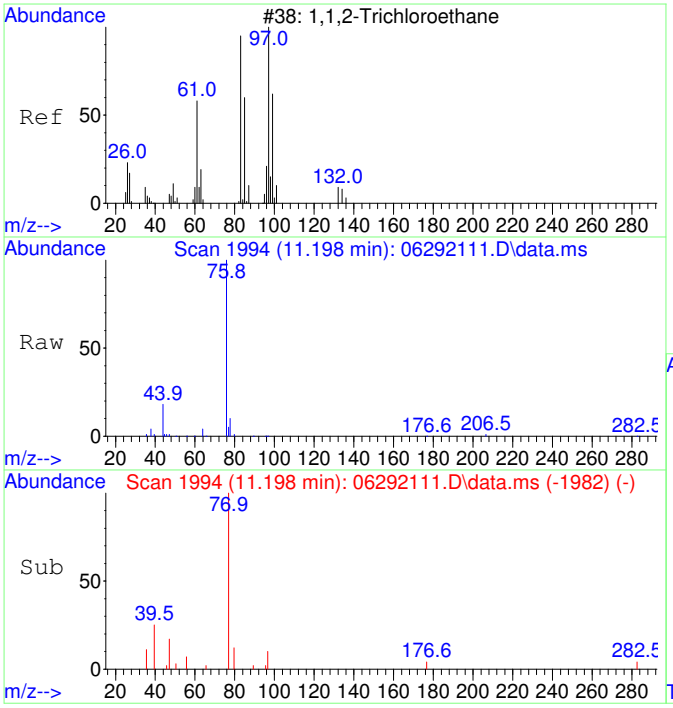


#37
Toluene SCAN
Concen: 38.37 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06292111.D
Acq: 29 Jun 2021 12:50

Tgt Ion: 91 Resp: 711

Ion	Ratio	Lower	Upper
91	100		
92	43.9	26.5	86.5
65	28.8	0.0	40.6

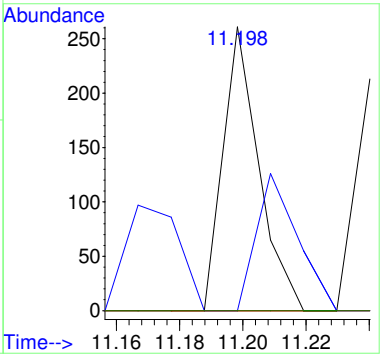




#38
1,1,2-Trichloroethane SCAN
Concen: 46.45 ug/L
RT: 11.198 min Scan# 1994
Delta R.T. 0.021 min
Lab File: 06292111.D
Acq: 29 Jun 2021 12:50

Tgt Ion: 97 Resp: 205

Ion	Ratio	Lower	Upper
97	100		
83	55.6	52.0	112.0
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#



2106037-24

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292112.D
Acq On : 29 Jun 2021 13:17
InstName : AG5975C
Operator : TD
Sample : 2106037-24
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 29 13:38:22 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

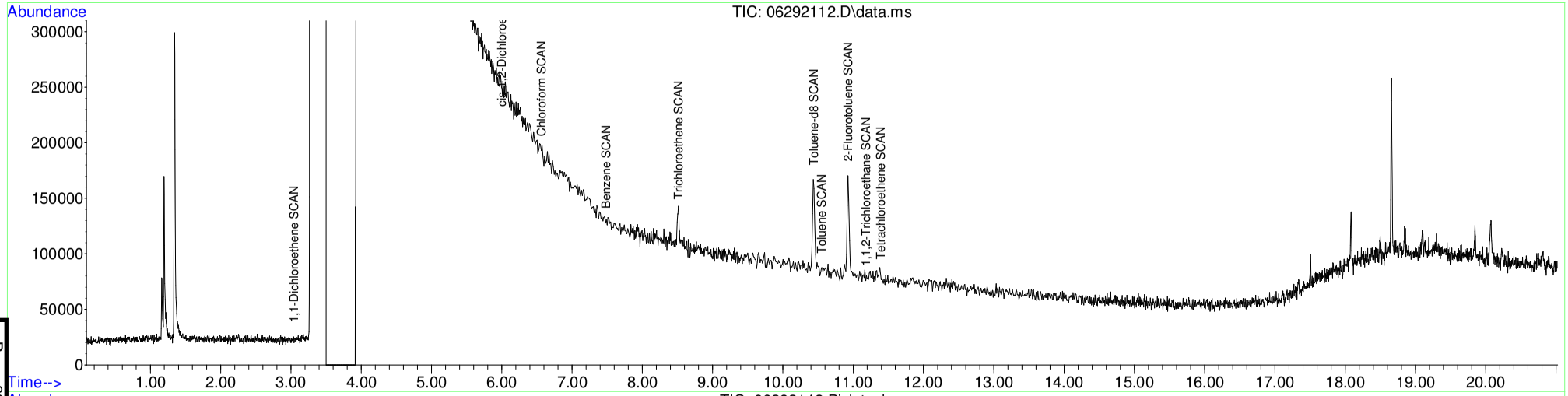
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	131894	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	113890	5041.09	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.82%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.049	61	460	80.07	ug/L #	98
3] trans-1,2-Dichloroethene	4.214	61	175	35.40	ug/L #	95
4] 1,1-Dichloroethane	4.964	63	437	64.45	ug/L #	75
5] cis-1,2-Dichloroethene	5.992	61	3167	487.44	ug/L #	100
6] Chloroform	6.564	83	3458	452.23	ug/L #	99
7] 1,1,1-Trichloroethane	6.832	97	390	54.82	ug/L #	97
11] Trichloroethene	8.514	130	18368	3210.93	ug/L	98
13] Toluene	10.528	91	1016	34.55	ug/L	95
15] Tetrachloroethene	11.389	166	1475	196.07	ug/L #	98
25) 2-Fluorotoluene SCAN	10.926	109	73628	4535.38	ug/L	100
26) 1,1-Dichloroethene SCAN	3.041	61	248	72.33	ug/L #	25
29) cis-1,2-Dichloroethene...	5.998	61	2523	503.05	ug/L #	60
30) Chloroform SCAN	6.563	83	2255	425.14	ug/L #	32
33) Benzene SCAN	7.475	78	1735	139.44	ug/L #	90
35) Trichloroethene SCAN	8.507	130	9780	3083.61	ug/L #	66
36) Toluene-d8 SCAN	10.432	98	68639	4874.81	ug/L	99
37) Toluene SCAN	10.548	91	847	46.48	ug/L	83
38) 1,1,2-Trichloroethane ...	11.177	97	172	39.62	ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	788	179.56	ug/L #	83

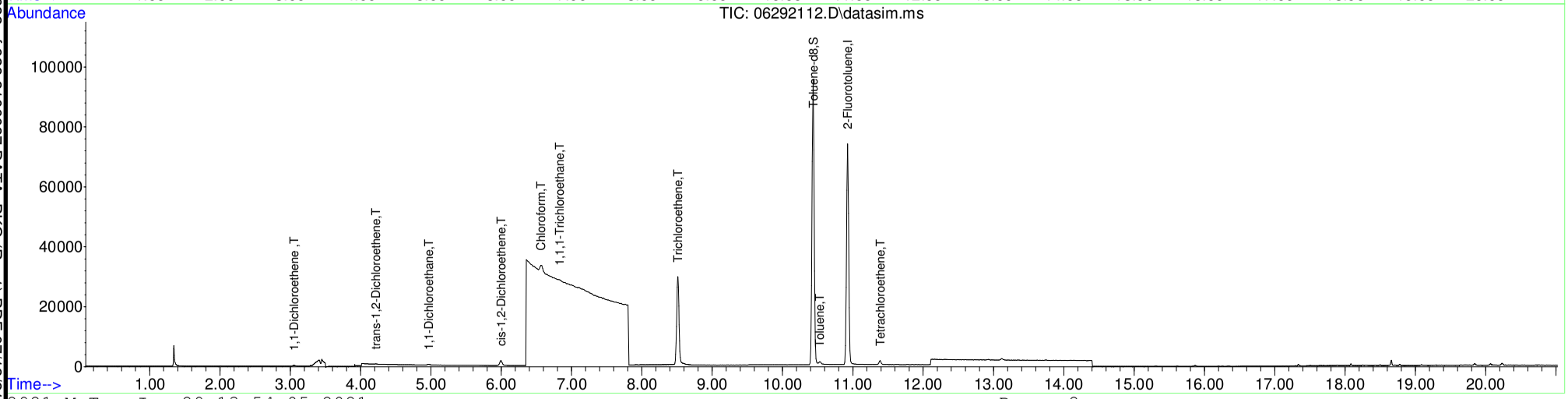
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292112.D
Acq On : 29 Jun 2021 13:17
InstName : AG5975C
Operator : TD
Sample : 2106037-24
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 29 13:38:22 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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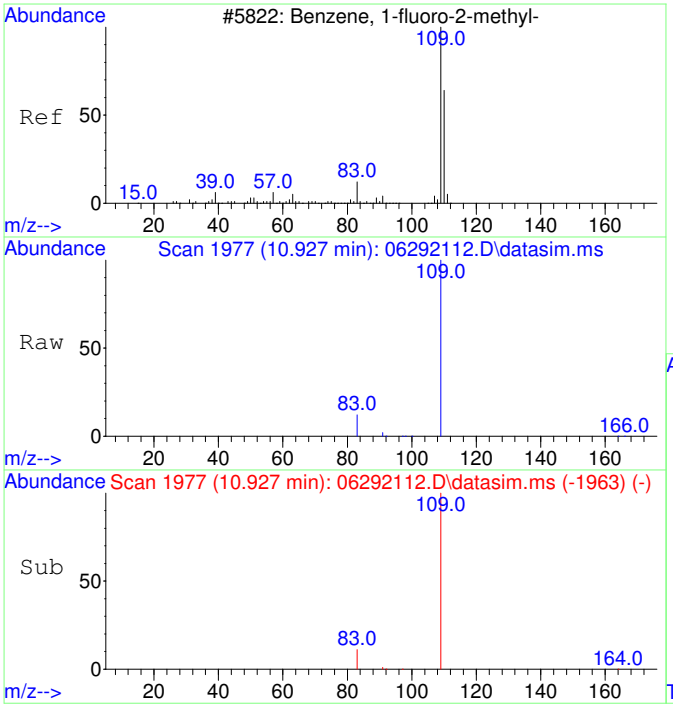
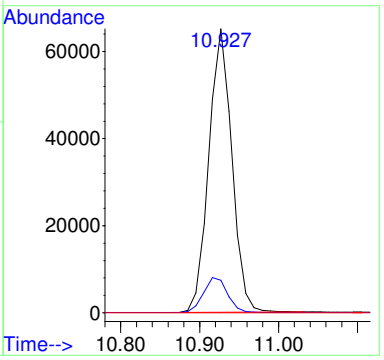
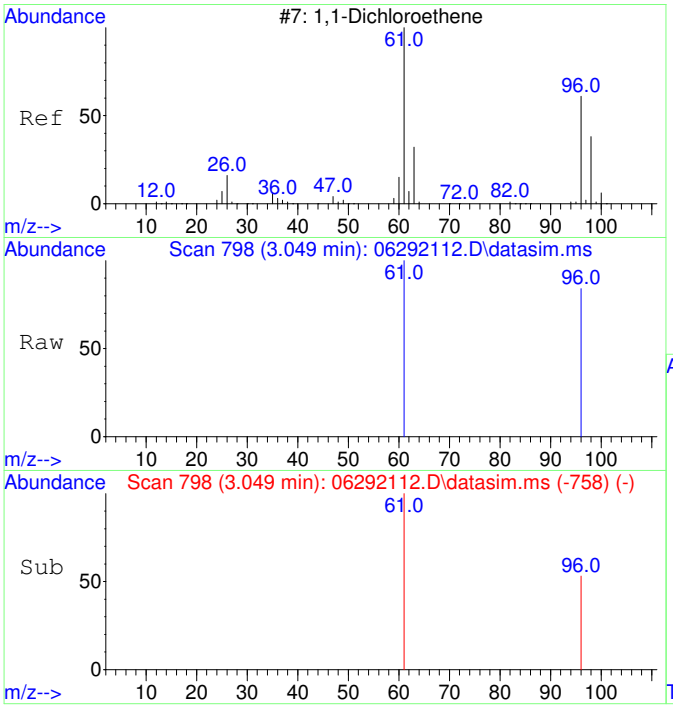


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion:109 Resp: 131894

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

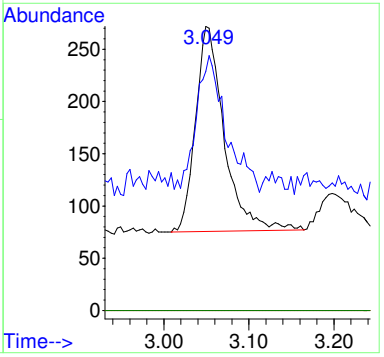


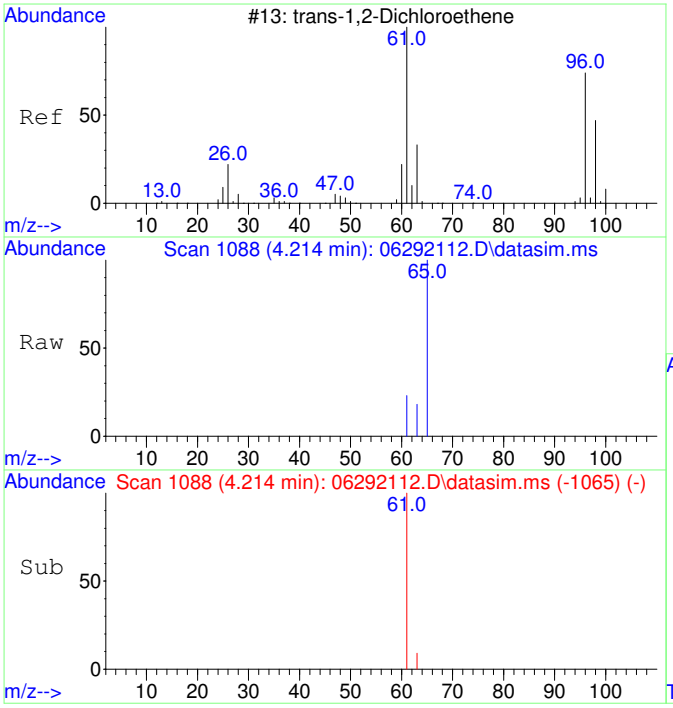


#2
1,1-Dichloroethene
Concen: 80.07 ug/L
RT: 3.049 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 61 Resp: 460

Ion	Ratio	Lower	Upper
61	100		
96	66.1	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

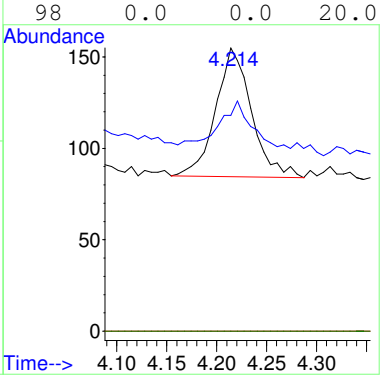


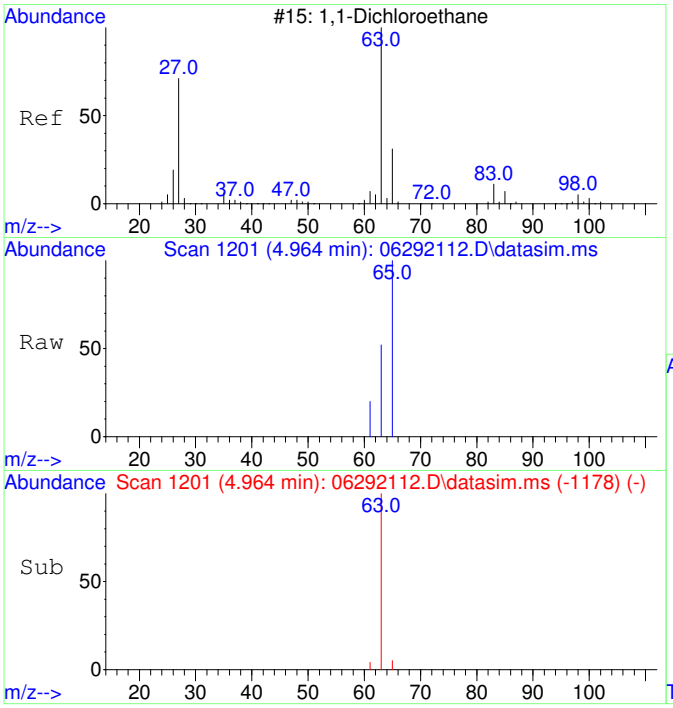


#3
trans-1,2-Dichloroethene
Concen: 35.40 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 61 Resp: 175

Ion	Ratio	Lower	Upper
61	100		
63	35.4	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

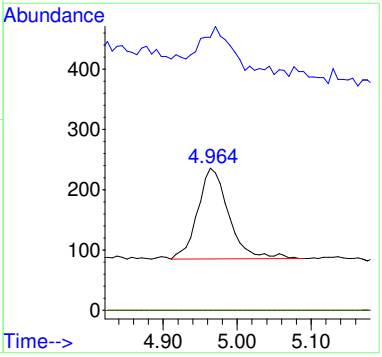


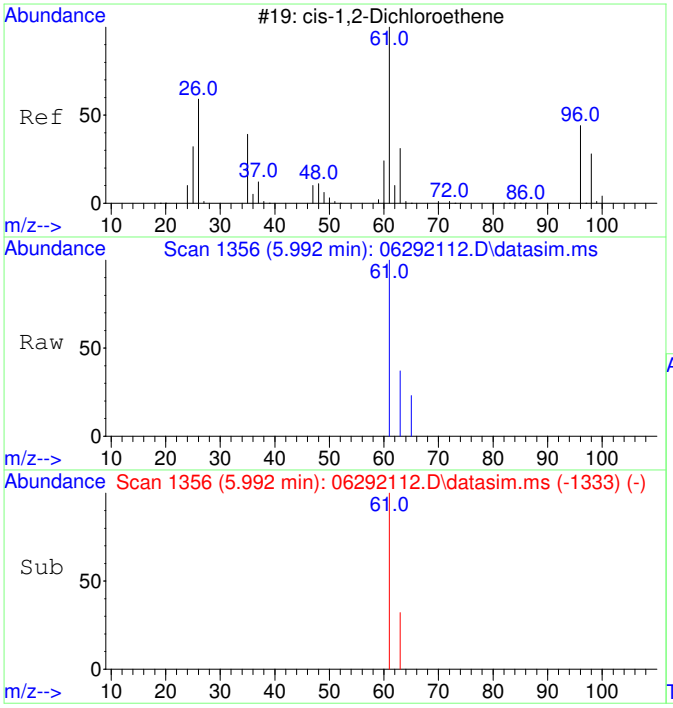


#4
1,1-Dichloroethane
Concen: 64.45 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 63 Resp: 437

Ion	Ratio	Lower	Upper
63	100		
65	45.3	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

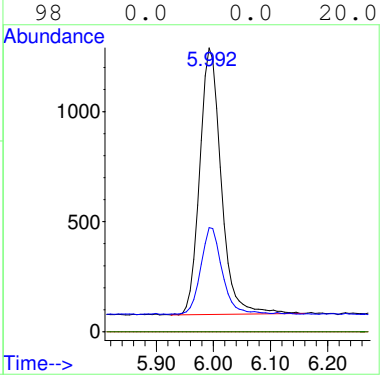


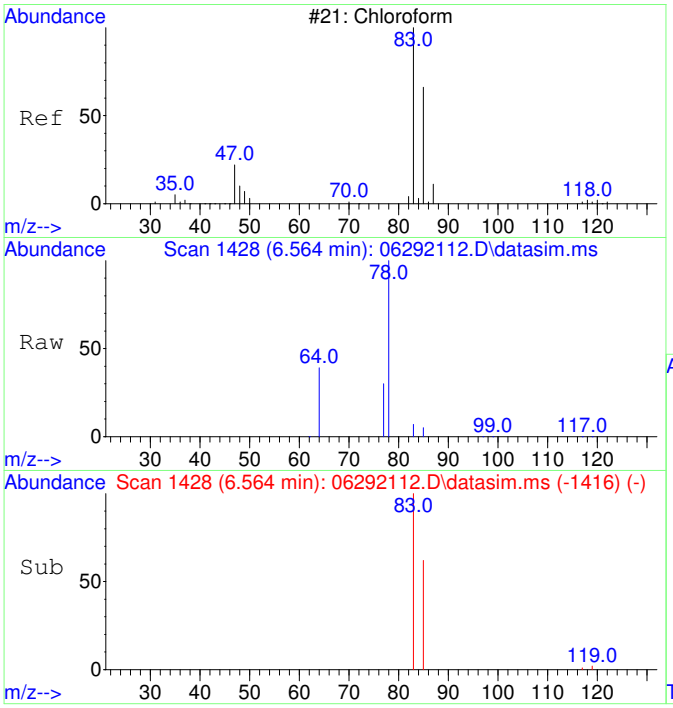


#5
cis-1,2-Dichloroethene
Concen: 487.44 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 61 Resp: 3167

Ion	Ratio	Lower	Upper
61	100		
63	32.6	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

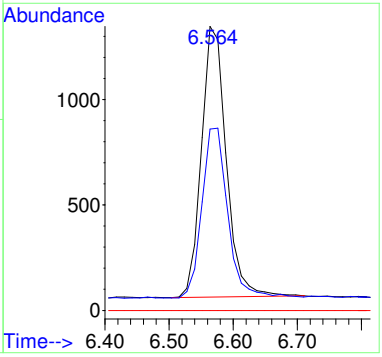


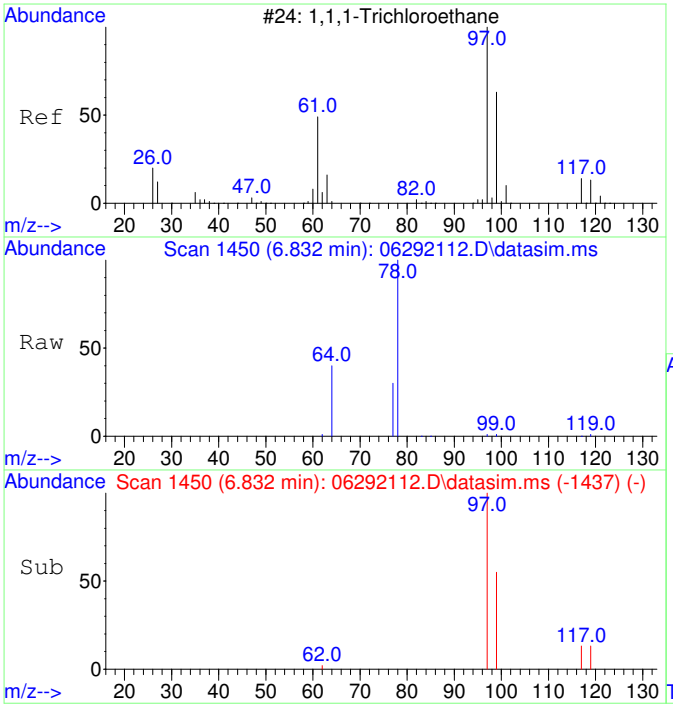


#6
Chloroform
Concen: 452.23 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 83 Resp: 3458

Ion	Ratio	Lower	Upper
83	100		
85	65.1	34.5	94.5
87	0.0	0.0	20.0

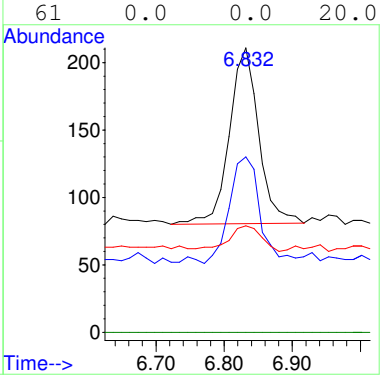


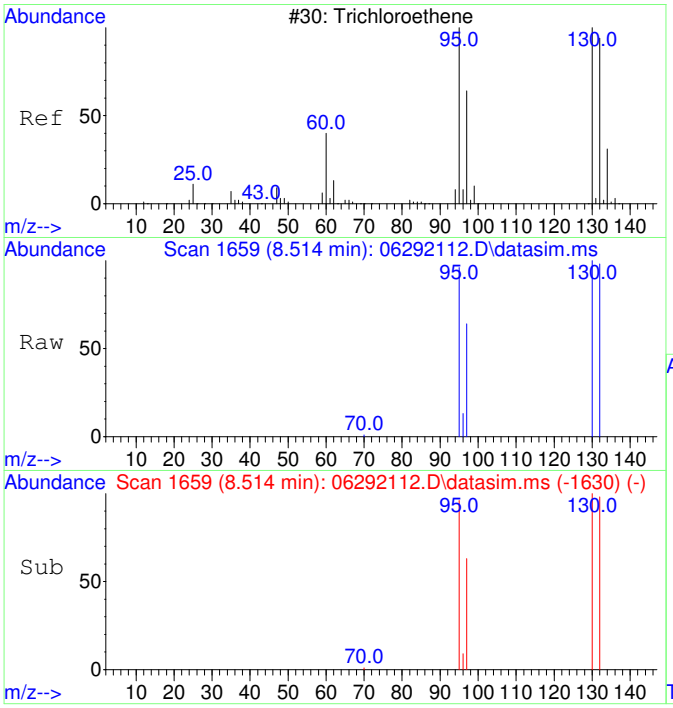


#7
1,1,1-Trichloroethane
Concen: 54.82 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 97 Resp: 390

Ion	Ratio	Lower	Upper
97	100		
99	63.1	34.4	94.4
117	16.2	0.0	42.8
61	0.0	0.0	20.0

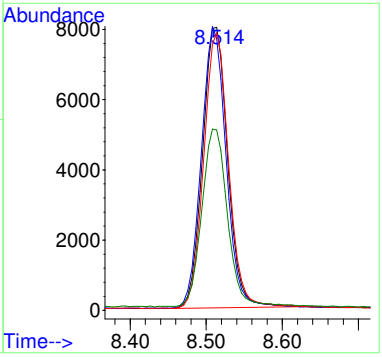


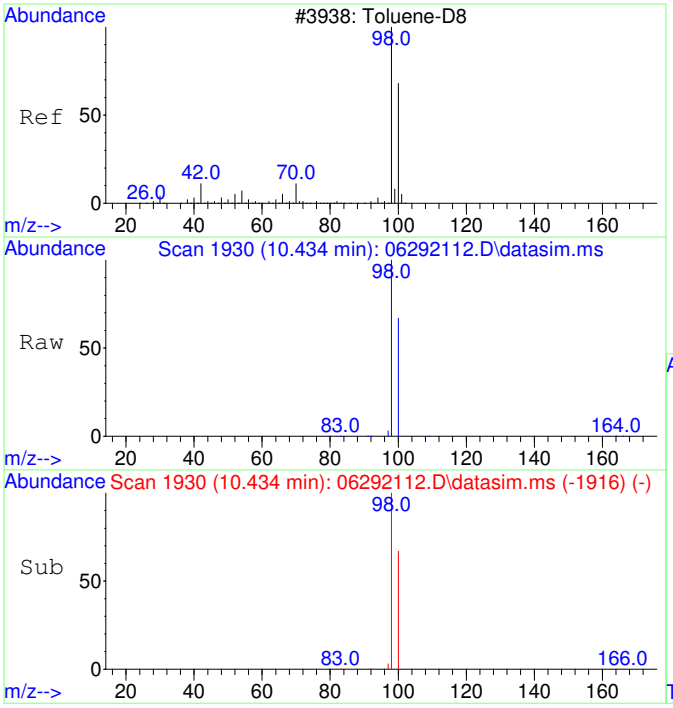


#11
Trichloroethene
Concen: 3210.93 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion:130 Resp: 18368

Ion	Ratio	Lower	Upper
130	100		
95	98.6	65.8	125.8
132	96.7	75.8	115.8
97	64.0	42.0	82.0

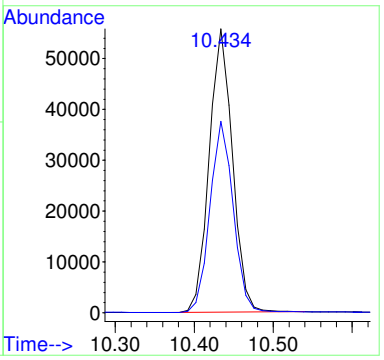


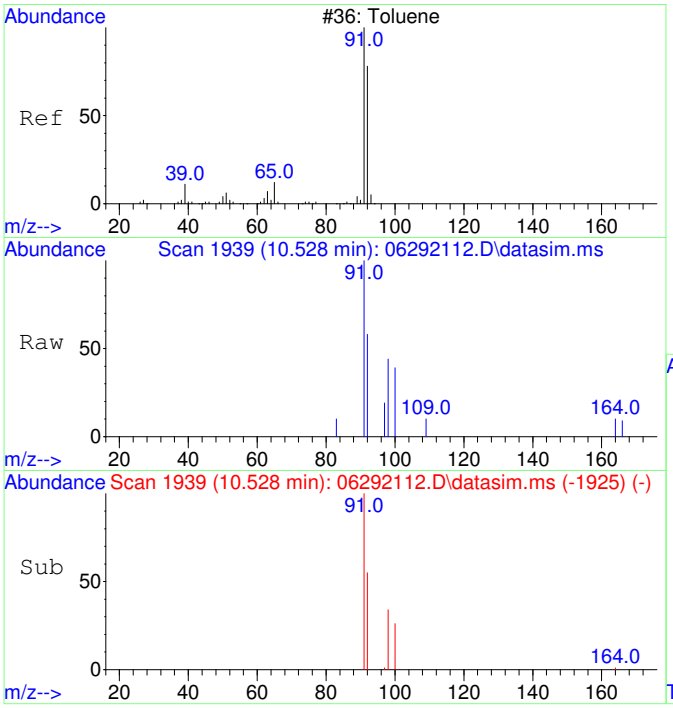


#12
Toluene-d8
Concen: 5041.09 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 98 Resp: 113890

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

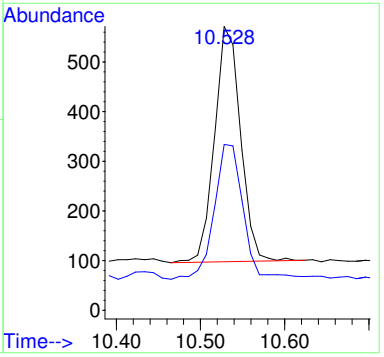


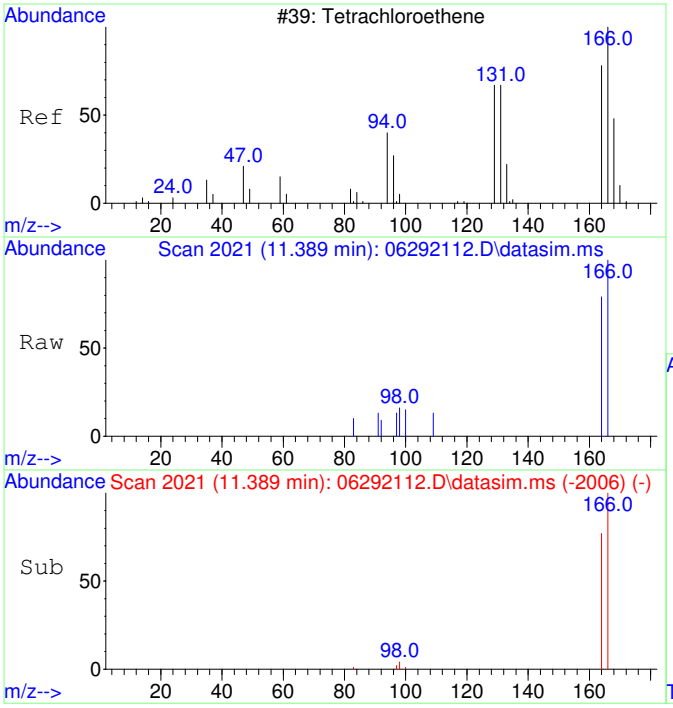


#13
Toluene
Concen: 34.55 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 91 Resp: 1016

Ion	Ratio	Lower	Upper
91	100		
92	63.7	30.2	90.2

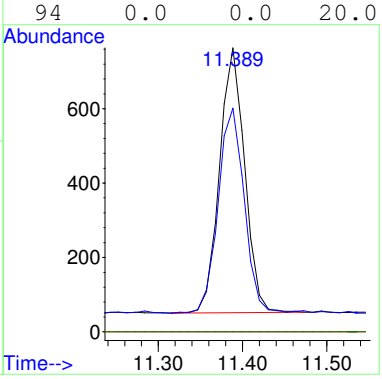


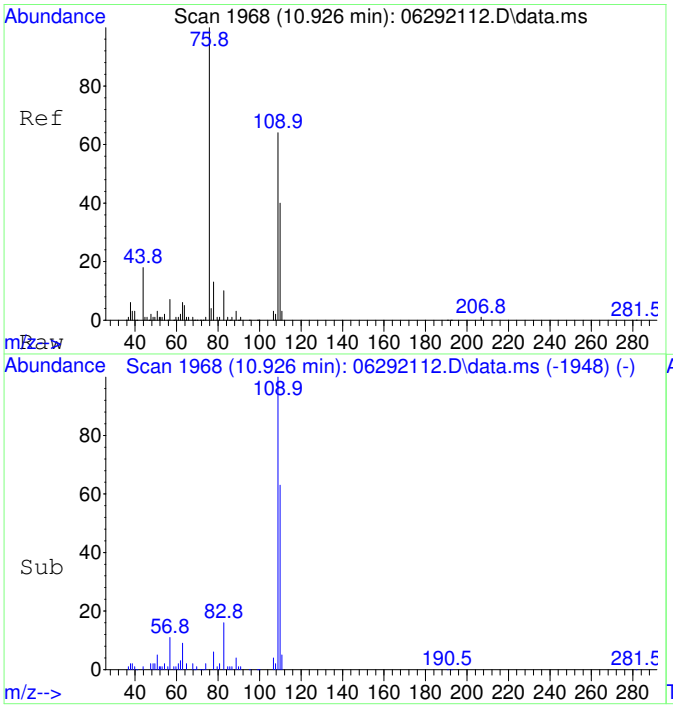


#15
Tetrachloroethene
Concen: 196.07 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion:166 Resp: 1475

Ion	Ratio	Lower	Upper
166	100		
164	79.3	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

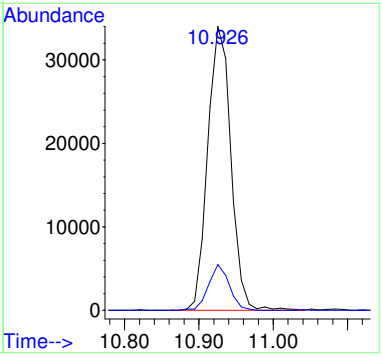


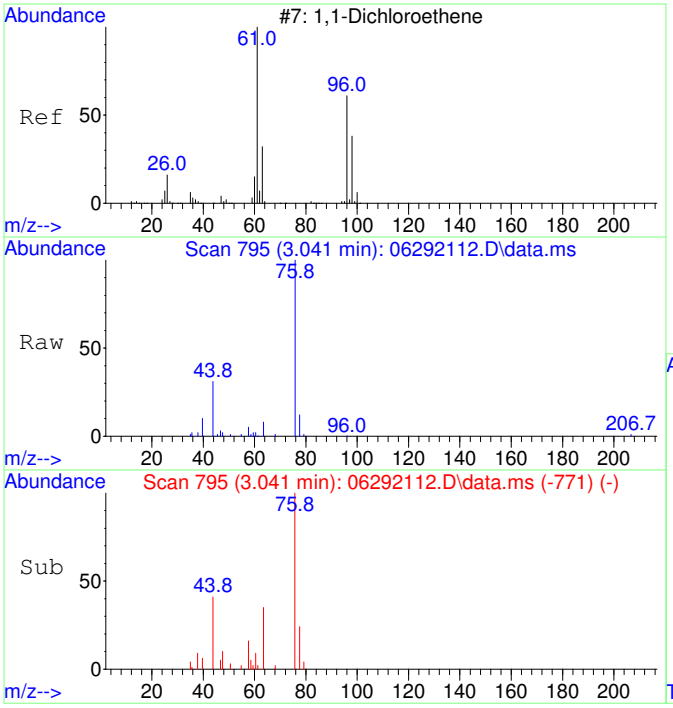


#25
2-Fluorotoluene SCAN
Concen: 4535.38 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion:109 Resp: 73628

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	44.5

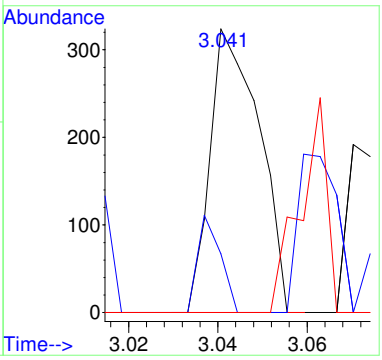


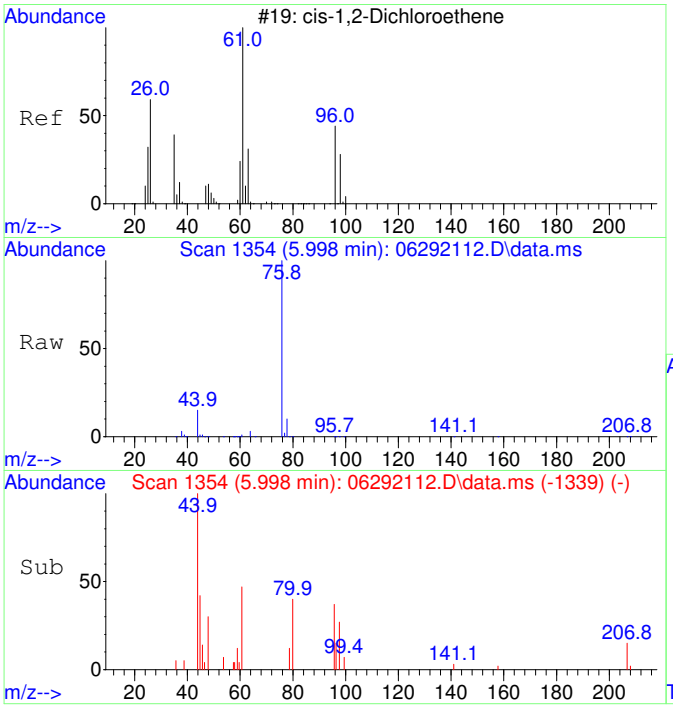


#26
1,1-Dichloroethene SCAN
Concen: 72.33 ug/L
RT: 3.041 min Scan# 795
Delta R.T. -0.011 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 61 Resp: 248

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.0	93.0#
98	0.0	12.5	72.5#

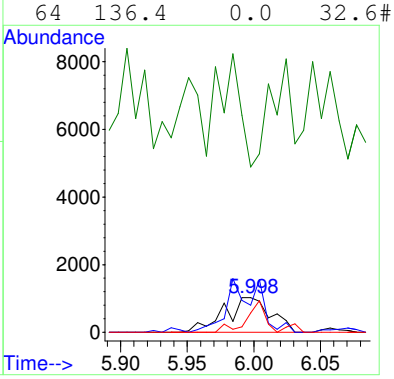


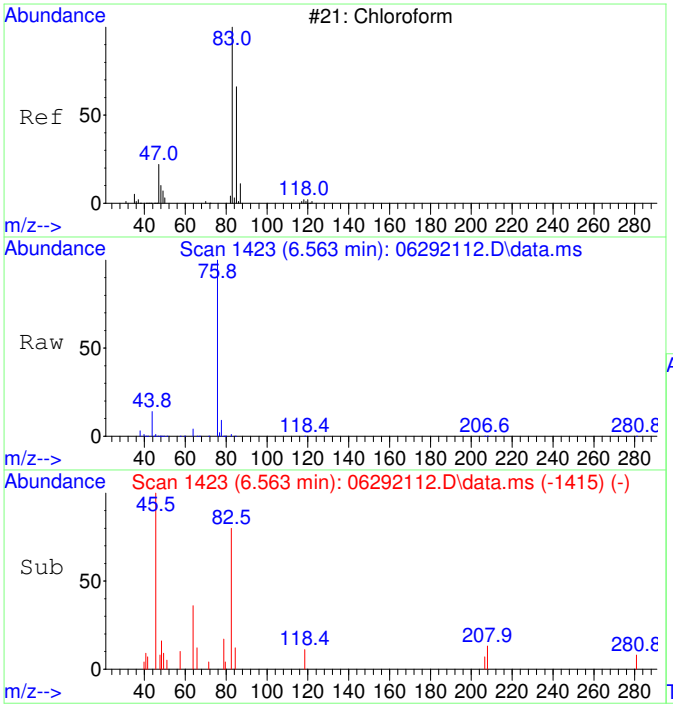


#29
cis-1,2-Dichloroethene SCAN
Concen: 503.05 ug/L
RT: 5.998 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 61 Resp: 2523

Ion	Ratio	Lower	Upper
61	100		
96	102.6	36.9	96.9#
98	35.6	12.1	72.1
64	136.4	0.0	32.6#

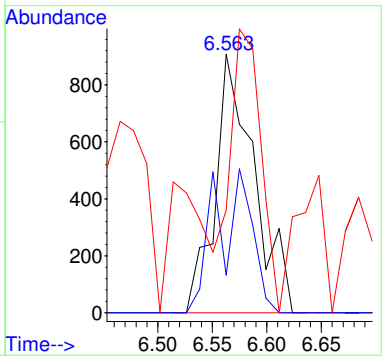


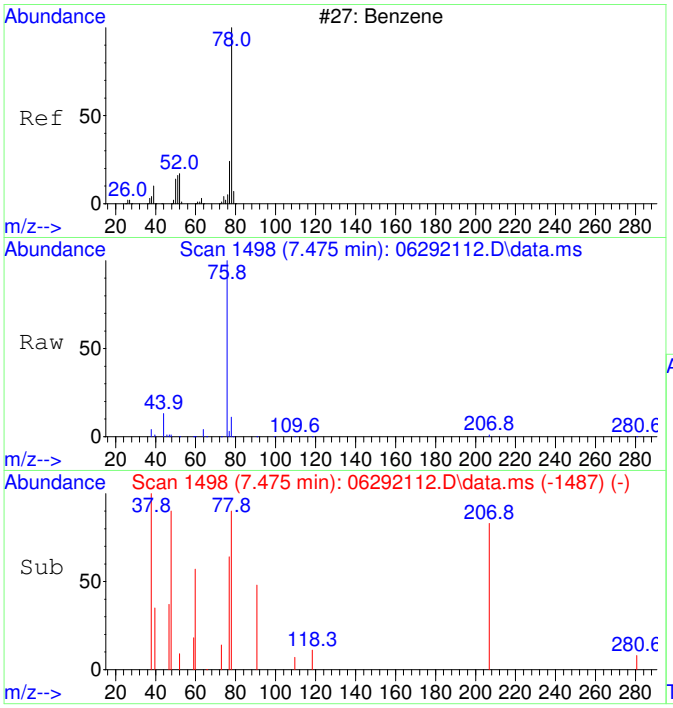


#30
Chloroform SCAN
Concen: 425.14 ug/L
RT: 6.563 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 83 Resp: 2255

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	69.6	7.5	67.5#

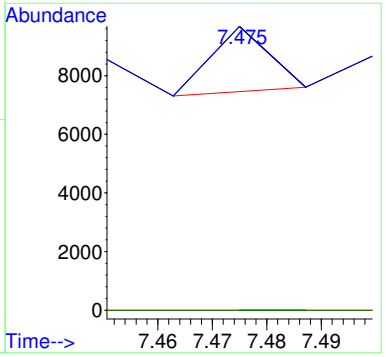


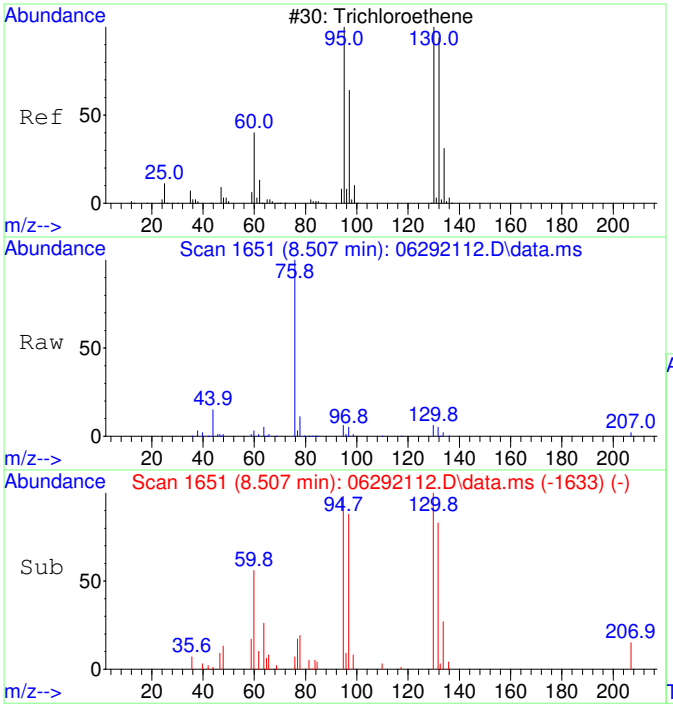


#33
Benzene SCAN
Concen: 139.44 ug/L
RT: 7.475 min Scan# 1498
Delta R.T. 0.037 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 78 Resp: 1735

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

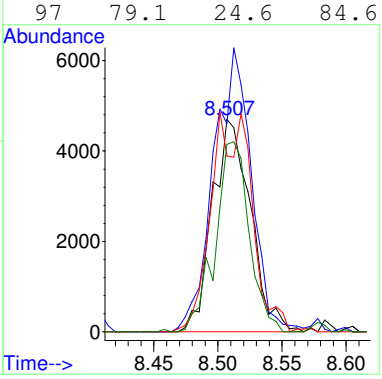


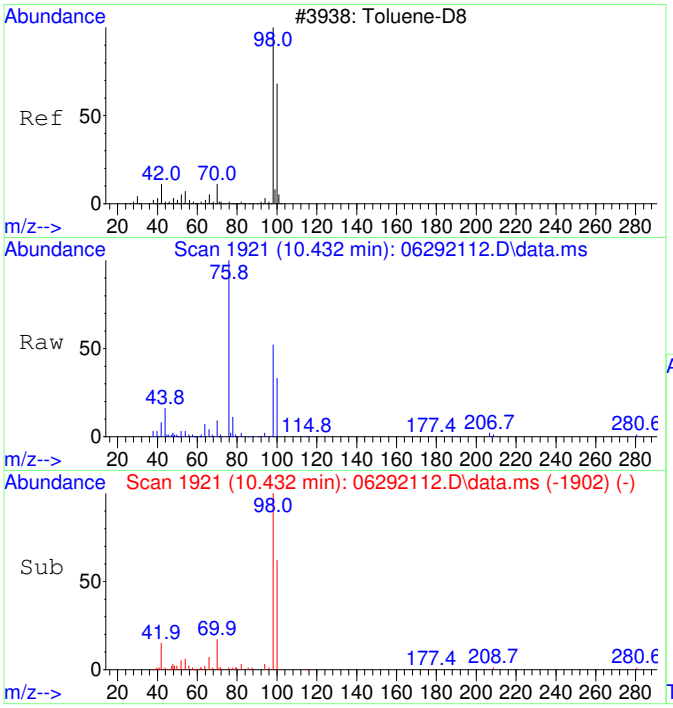


#35
Trichloroethene SCAN
Concen: 3083.61 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion:130 Resp: 9780

Ion	Ratio	Lower	Upper
130	100		
95	129.0	60.0	120.0#
132	106.8	54.3	114.3
97	79.1	24.6	84.6

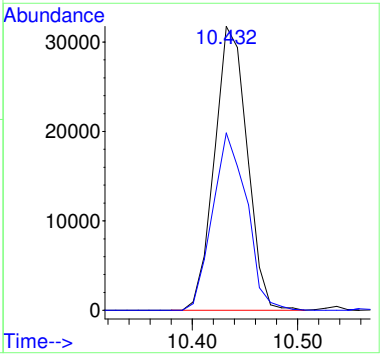


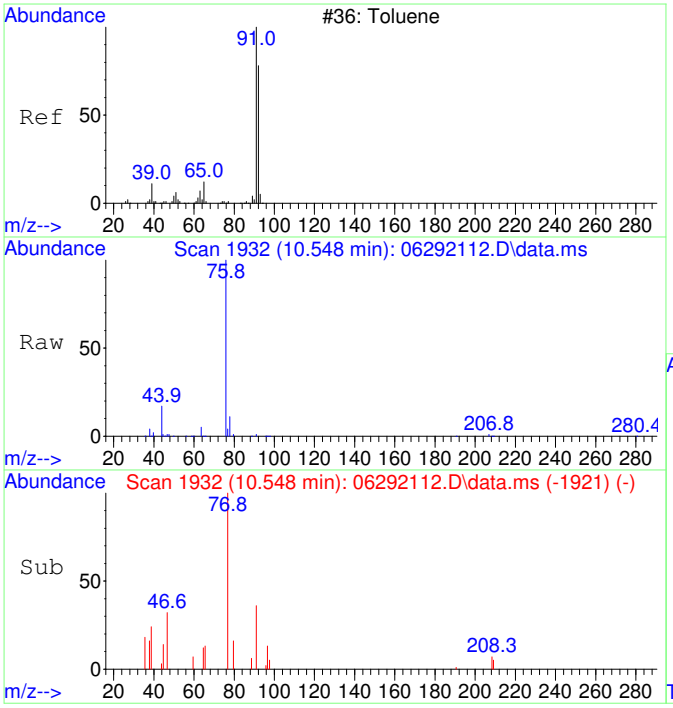


#36
Toluene-d8 SCAN
Concen: 4874.81 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 98 Resp: 68639

Ion	Ratio	Lower	Upper
98	100		
100	65.3	36.1	96.1

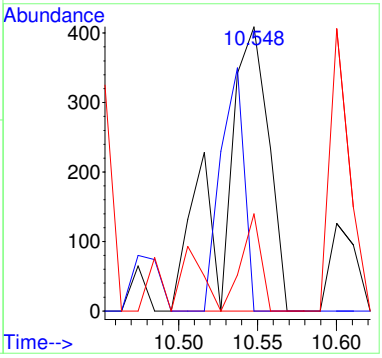


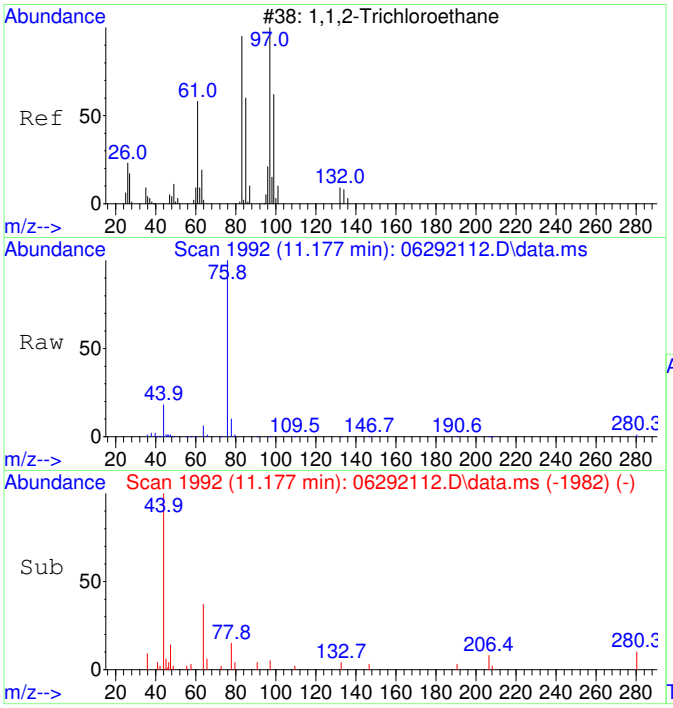


#37
Toluene SCAN
Concen: 46.48 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 91 Resp: 847

Ion	Ratio	Lower	Upper
91	100		
92	43.1	26.5	86.5
65	14.3	0.0	40.6

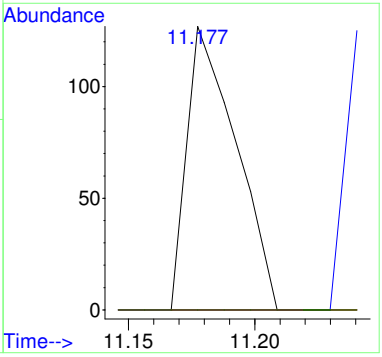


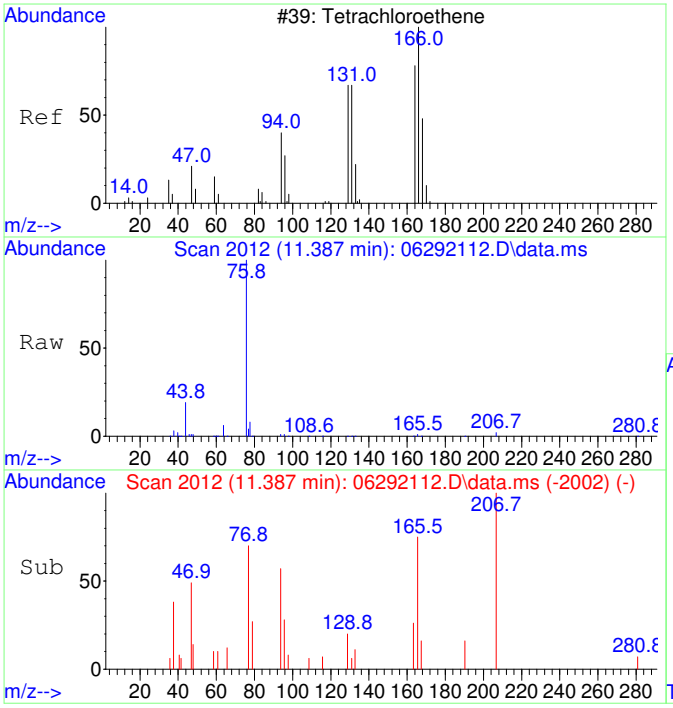


#38
1,1,2-Trichloroethane SCAN
Concen: 39.62 ug/L
RT: 11.177 min Scan# 1992
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion: 97 Resp: 172

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

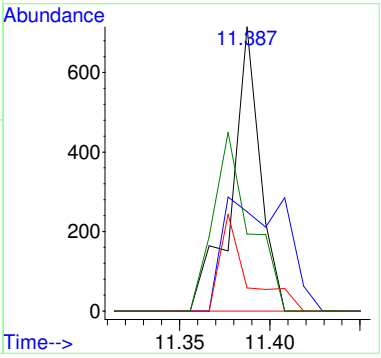




#39
Tetrachloroethene SCAN
Concen: 179.56 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292112.D
Acq: 29 Jun 2021 13:17

Tgt Ion:166 Resp: 788

Ion	Ratio	Lower	Upper
166	100		
164	87.6	53.9	113.9
131	33.0	45.6	105.6#
129	81.7	51.3	111.3



2106037-25

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292113.D
Acq On : 29 Jun 2021 13:43
InstName : AG5975C
Operator : TD
Sample : 2106037-25
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 30 06:06:28 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

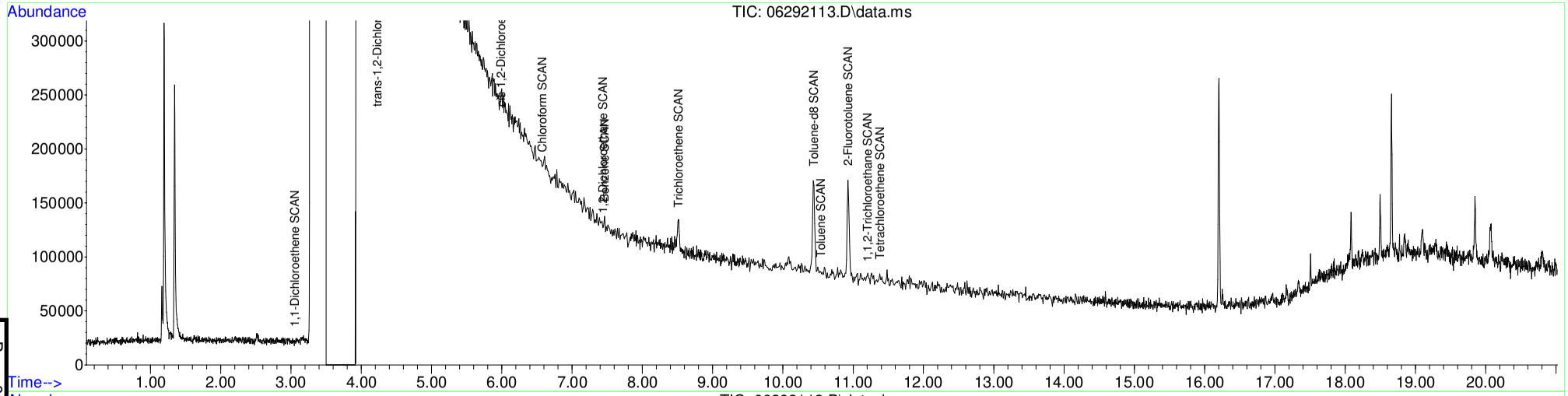
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	134481	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	116469	5056.08 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.12%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.049	61	398	67.95 ug/L #	98
3] trans-1,2-Dichloroethene	4.214	61	264	52.37 ug/L #	88
4] 1,1-Dichloroethane	4.964	63	427	61.76 ug/L #	55
5] cis-1,2-Dichloroethene	5.992	61	2841	428.86 ug/L #	99
6] Chloroform	6.564	83	5780	741.36 ug/L #	100
7] 1,1,1-Trichloroethane	6.832	97	249	34.32 ug/L #	89
11] Trichloroethene	8.514	130	17550	3008.91 ug/L	98
13] Toluene	10.528	91	1115	37.19 ug/L	99
15] Tetrachloroethene	11.389	166	1369	178.48 ug/L #	99
19] m&p-Xylene	13.121	91	812	26.77 ug/L #	91
23] 1,2,4-Trimethylbenzene	15.868	105	1105	27.53 ug/L #	93
25) 2-Fluorotoluene SCAN	10.926	109	79248	4787.66 ug/L	99
26) 1,1-Dichloroethene SCAN	3.055	61	145	41.47 ug/L #	63
27) trans-1,2-Dichloroethe...	4.226	61	167	44.15 ug/L #	60
29) cis-1,2-Dichloroethene...	5.991	61	1969	385.04 ug/L #	69
30) Chloroform SCAN	6.575	83	4579	846.68 ug/L #	53
33) Benzene SCAN	7.463	78	5645	444.94 ug/L #	90
34) 1,2-Dichloroethane SCAN	7.438	62	137	34.25 ug/L #	36
35) Trichloroethene SCAN	8.507	130	10600	3277.87 ug/L	88
36) Toluene-d8 SCAN	10.432	98	70856	4935.46 ug/L	100
37) Toluene SCAN	10.537	91	693	37.30 ug/L #	80
38) 1,1,2-Trichloroethane ...	11.198	97	196	44.28 ug/L #	14
39) Tetrachloroethene SCAN	11.377	166	924	206.50 ug/L #	35

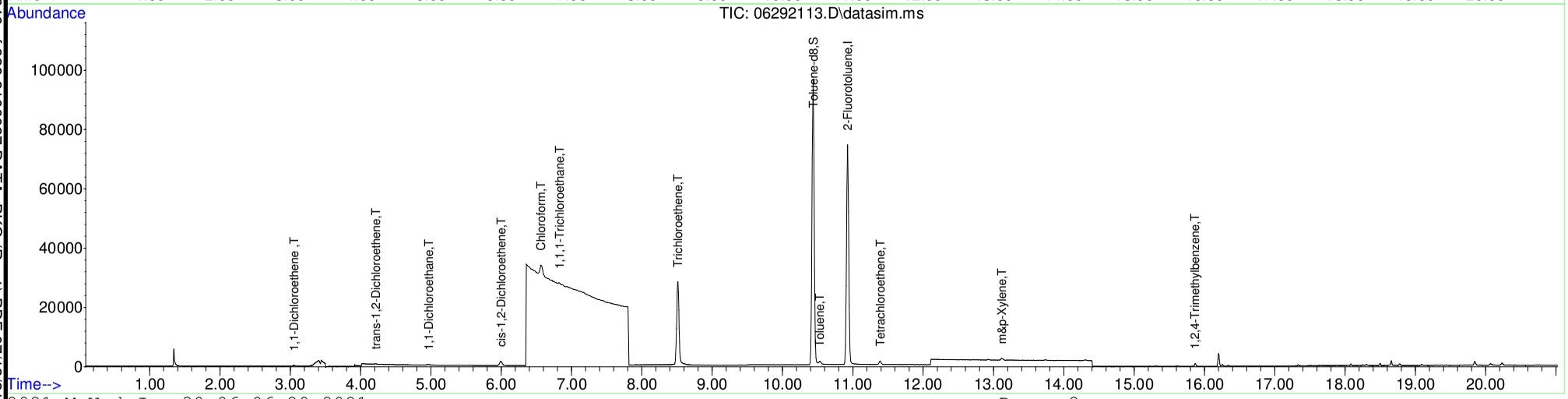
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292113.D
Acq On : 29 Jun 2021 13:43
InstName : AG5975C
Operator : TD
Sample : 2106037-25
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 30 06:06:28 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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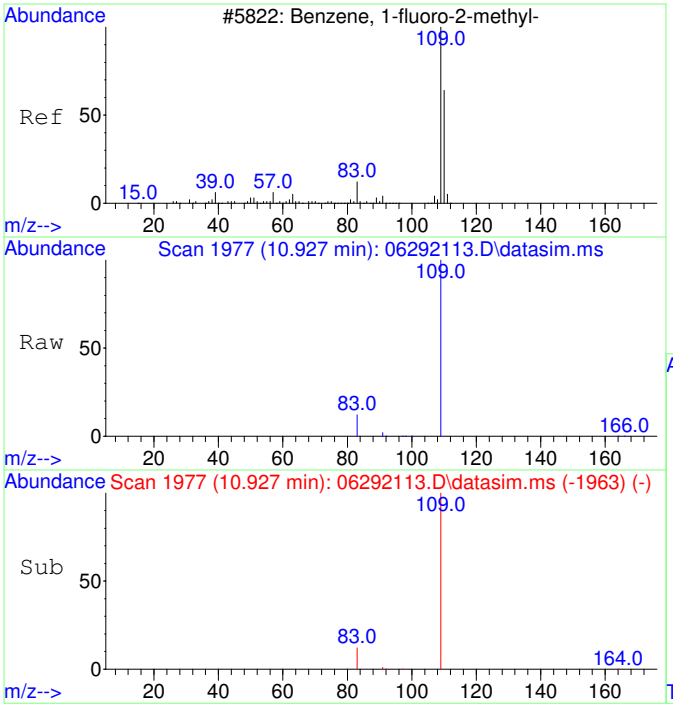
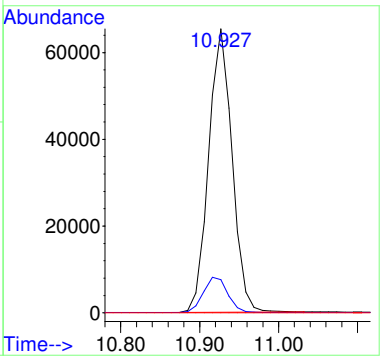
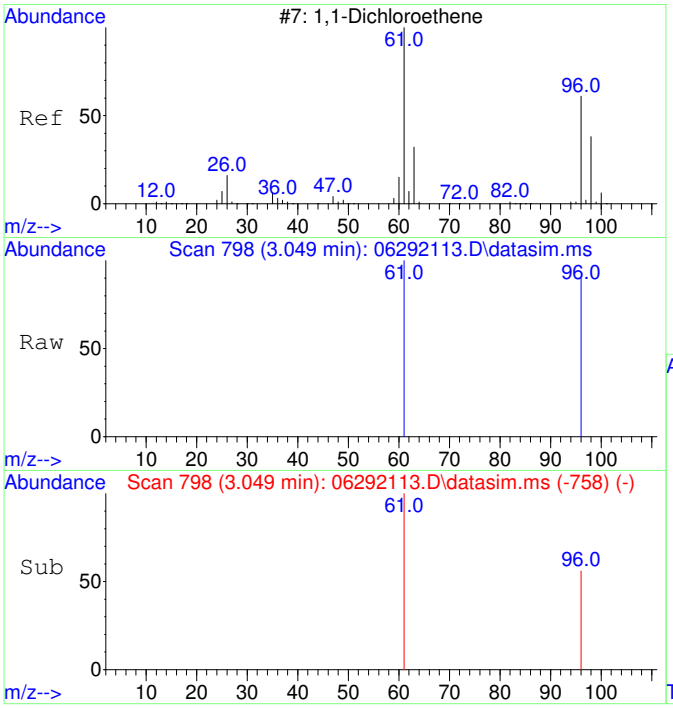


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion:109 Resp: 134481

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

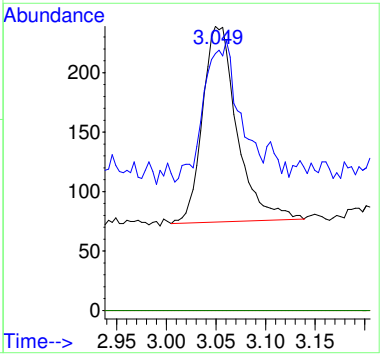


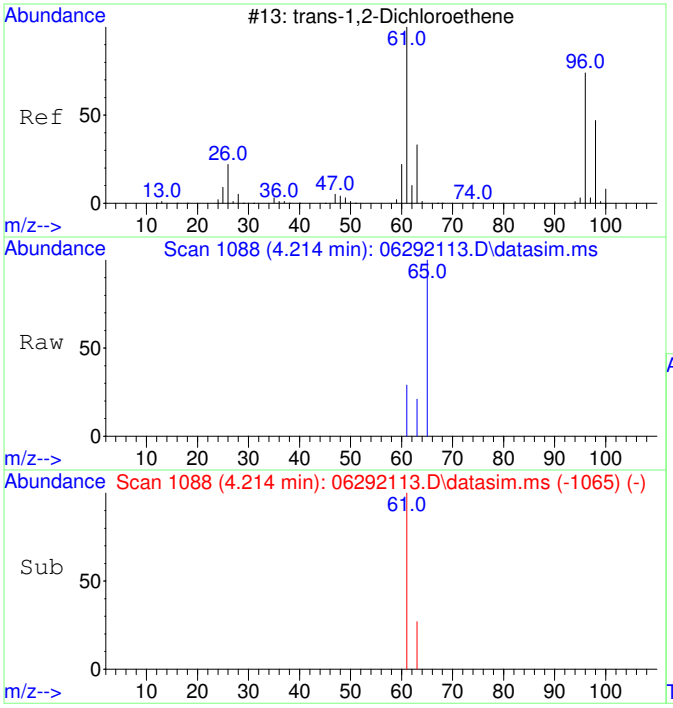


#2
1,1-Dichloroethene
Concen: 67.95 ug/L
RT: 3.049 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 61 Resp: 398

Ion	Ratio	Lower	Upper
61	100		
96	63.6	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

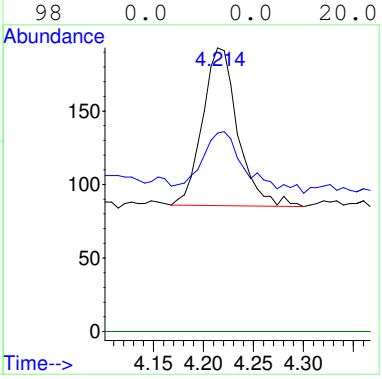


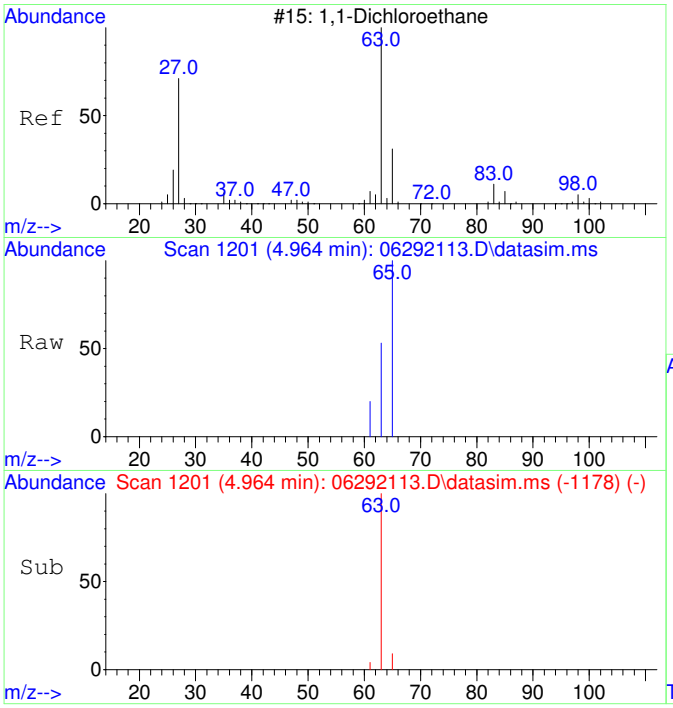


#3
trans-1,2-Dichloroethene
Concen: 52.37 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 61 Resp: 264

Ion	Ratio	Lower	Upper
61	100		
63	39.4	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

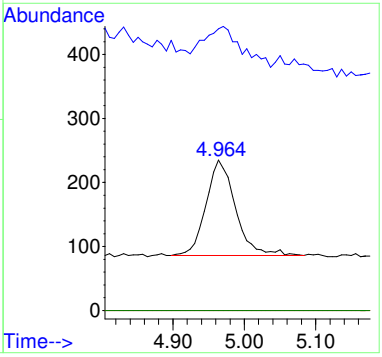


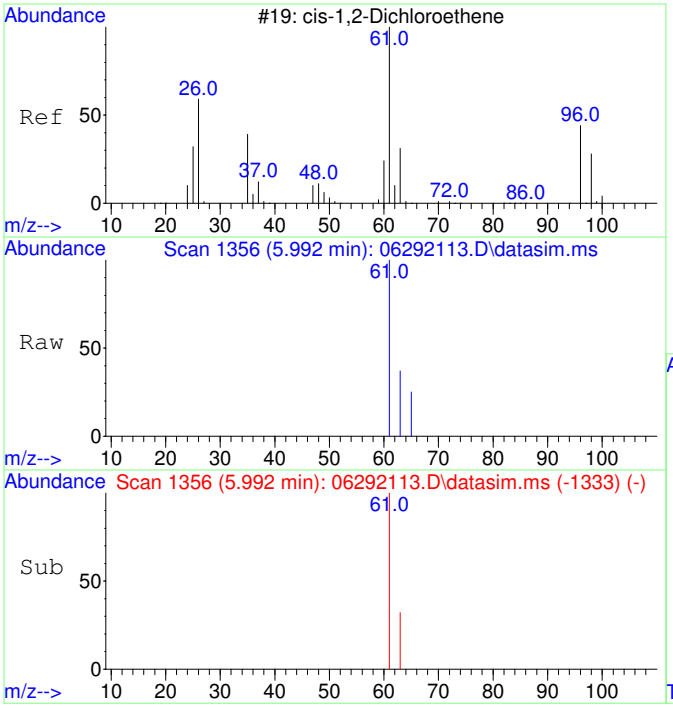


#4
1,1-Dichloroethane
Concen: 61.76 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 63 Resp: 427

Ion	Ratio	Lower	Upper
63	100		
65	56.0	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

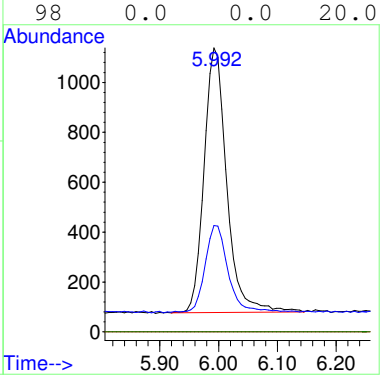


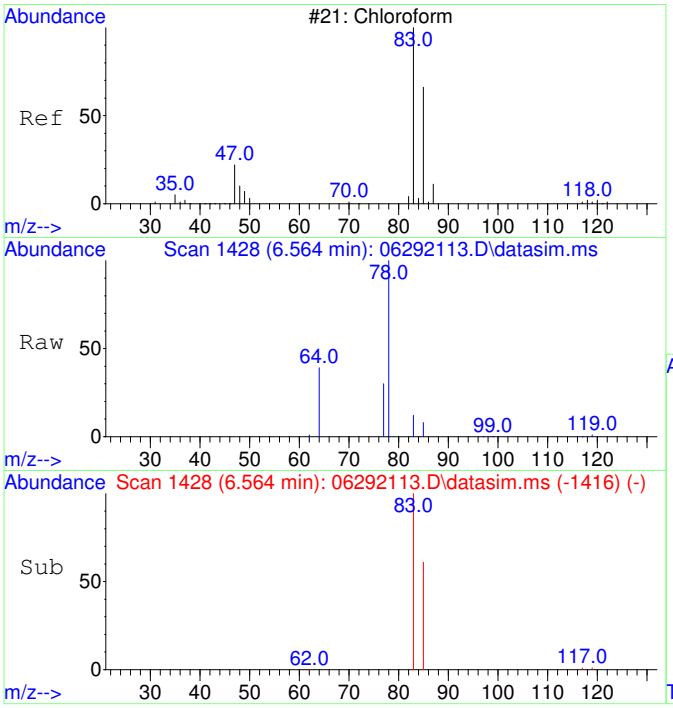


#5
cis-1,2-Dichloroethene
Concen: 428.86 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 61 Resp: 2841

Ion	Ratio	Lower	Upper
61	100		
63	33.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

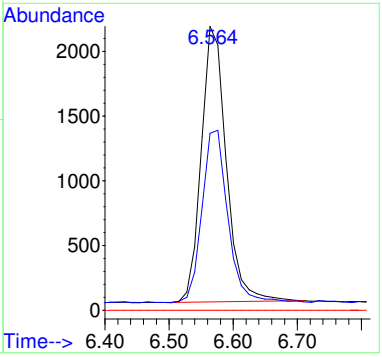


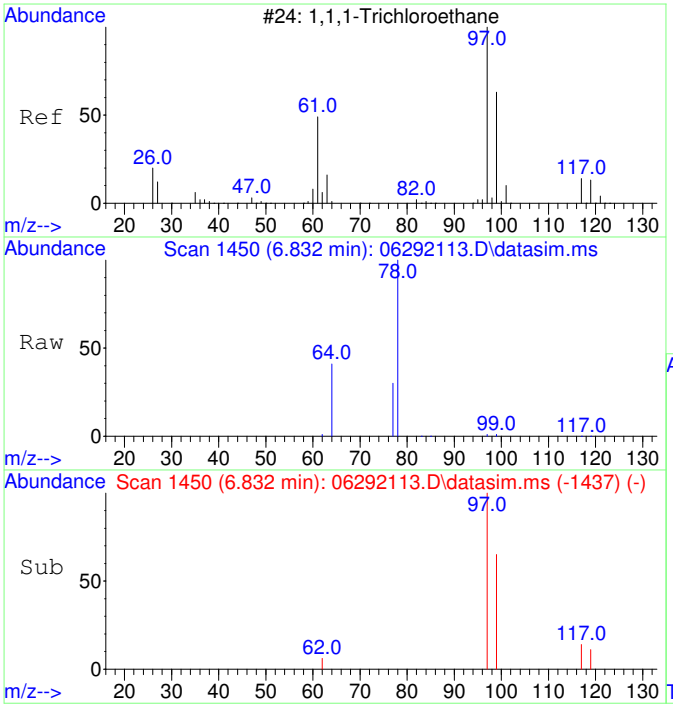


#6
Chloroform
Concen: 741.36 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 83 Resp: 5780

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.5	94.5
87	0.0	0.0	20.0

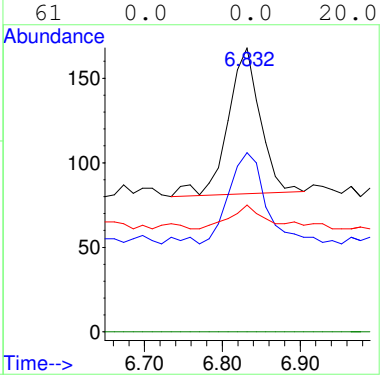


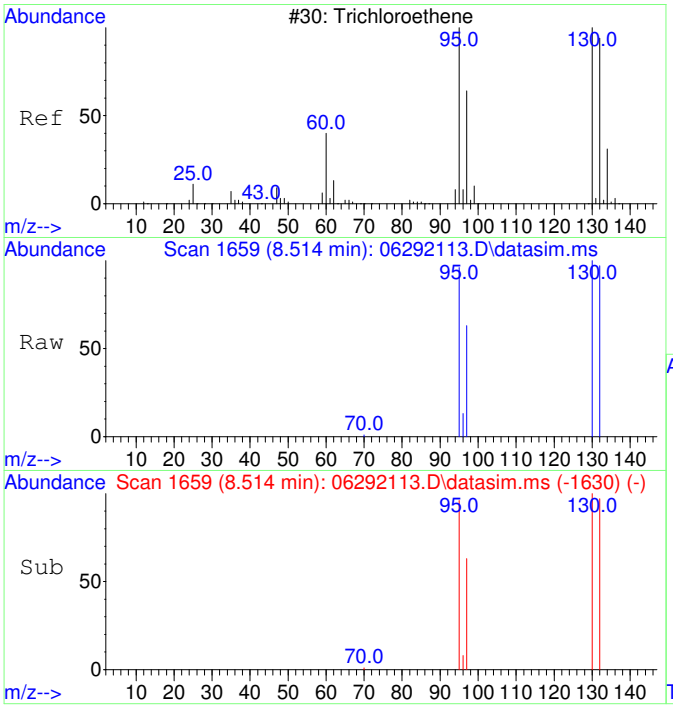


#7
1,1,1-Trichloroethane
Concen: 34.32 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 97 Resp: 249

Ion	Ratio	Lower	Upper
97	100		
99	73.1	34.4	94.4
117	16.5	0.0	42.8
61	0.0	0.0	20.0

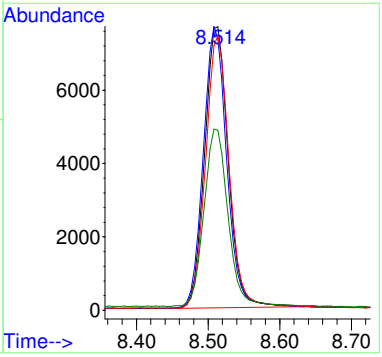


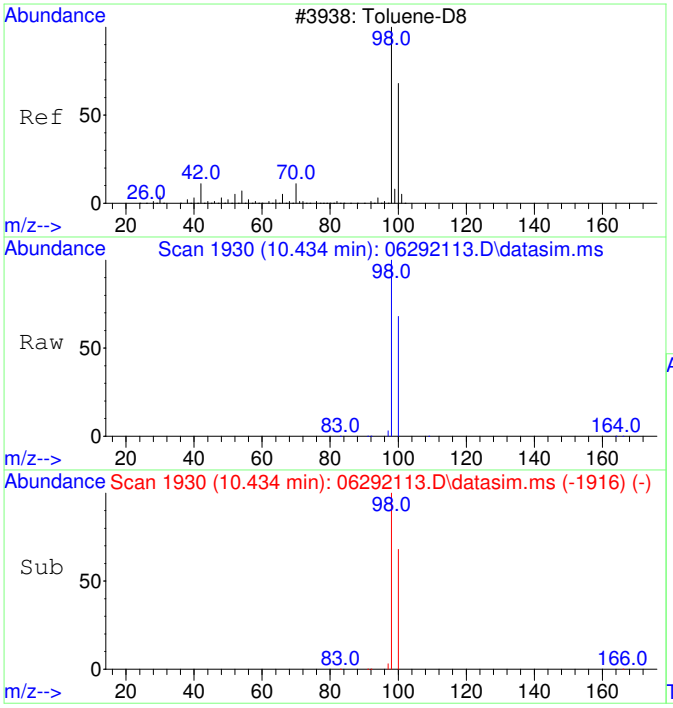


#11
Trichloroethene
Concen: 3008.91 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion:130 Resp: 17550

Ion	Ratio	Lower	Upper
130	100		
95	99.0	65.8	125.8
132	95.9	75.8	115.8
97	63.8	42.0	82.0

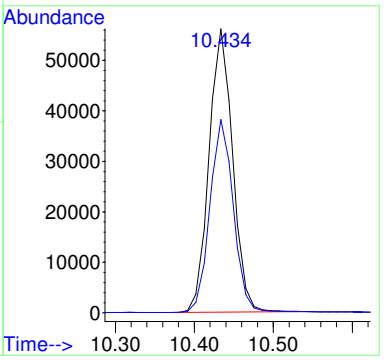


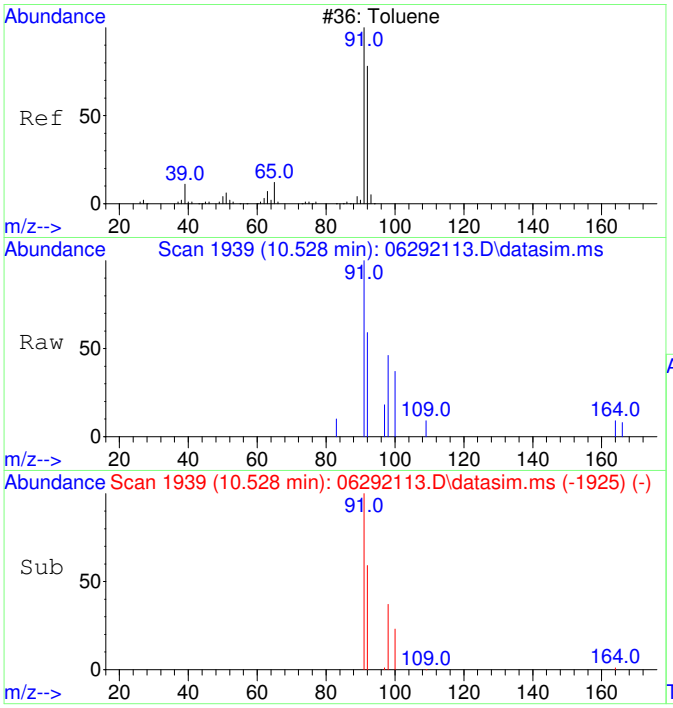


#12
Toluene-d8
Concen: 5056.08 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 98 Resp: 116469

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.3	97.3

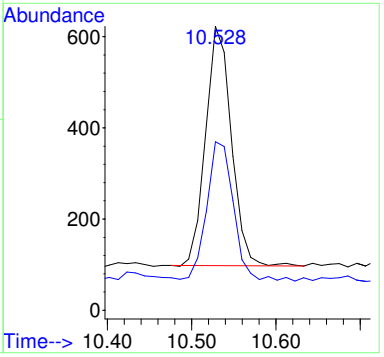


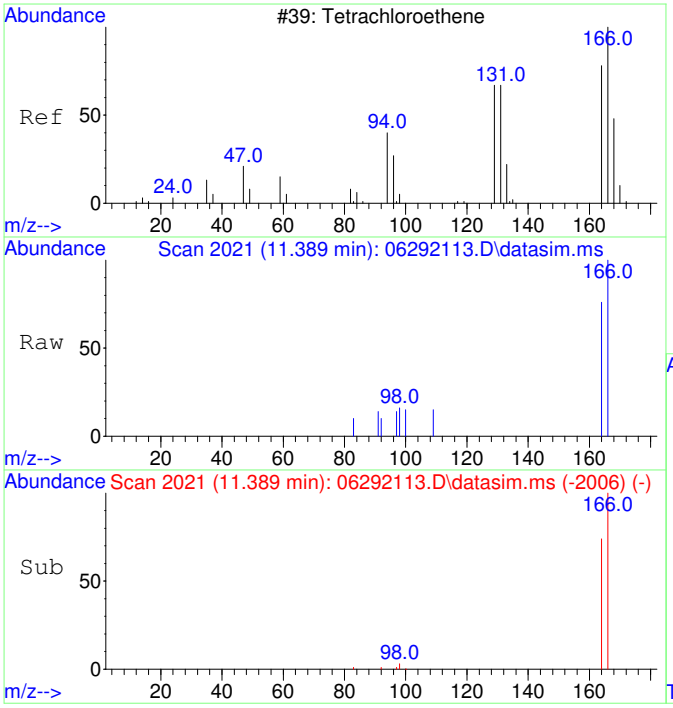


#13
Toluene
Concen: 37.19 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 91 Resp: 1115

Ion	Ratio	Lower	Upper
91	100		
92	60.9	30.2	90.2

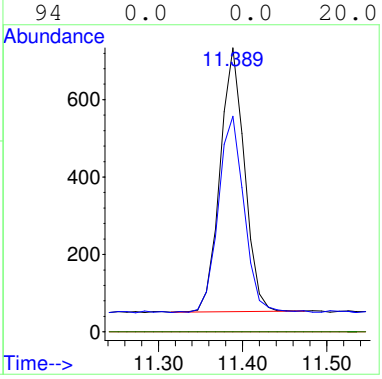


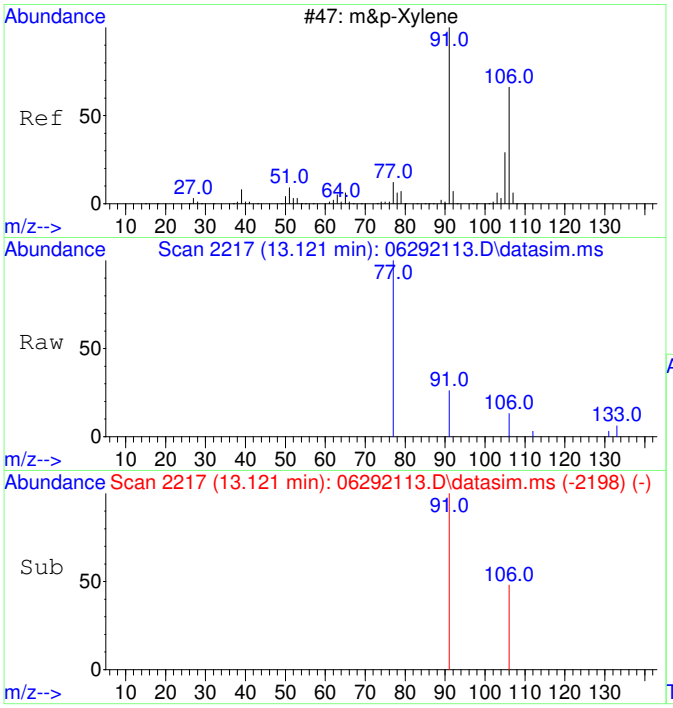


#15
Tetrachloroethene
Concen: 178.48 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion:166 Resp: 1369

Ion	Ratio	Lower	Upper
166	100		
164	78.7	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

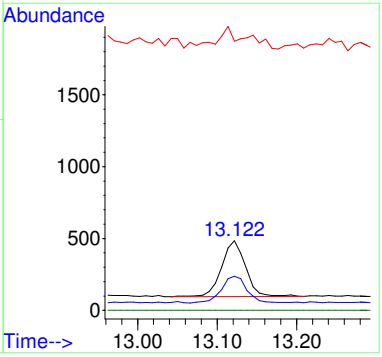


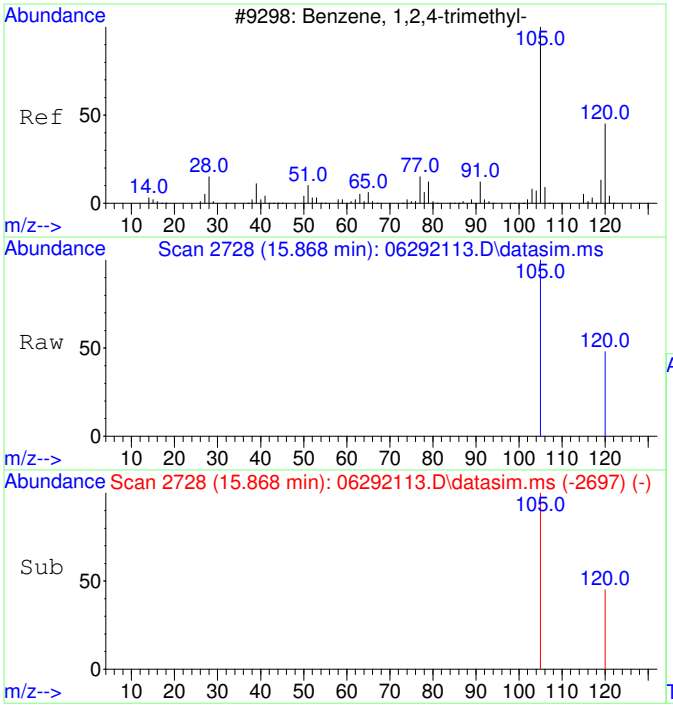


#19
m&p-Xylene
Concen: 26.77 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 91 Resp: 812

Ion	Ratio	Lower	Upper
91	100		
106	50.9	21.4	81.4
77	29.7	0.0	42.7
105	0.0	0.0	20.0

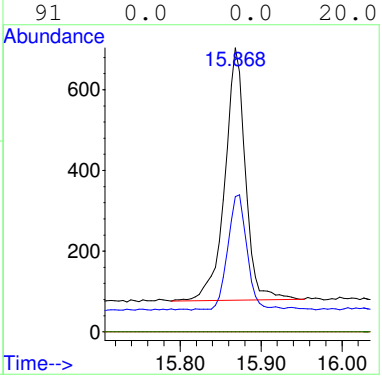


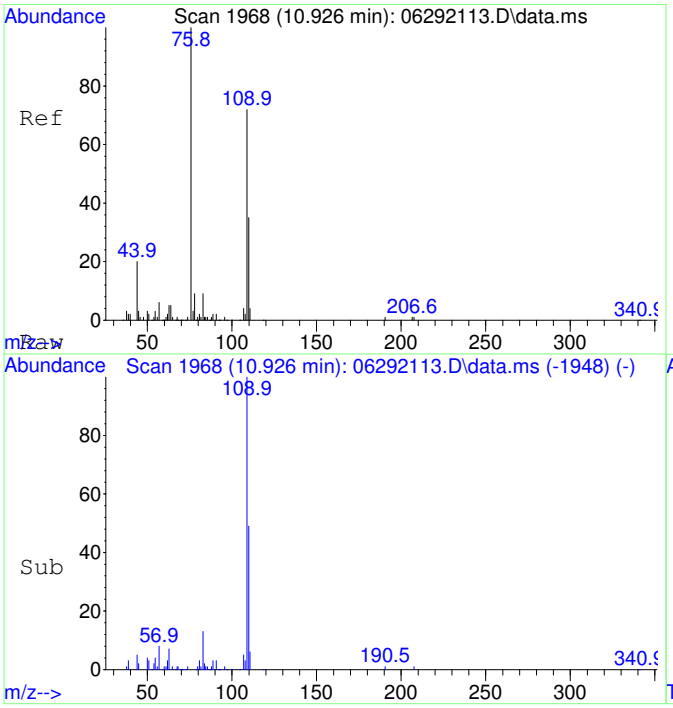


#23
1,2,4-Trimethylbenzene
Concen: 27.53 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion:105 Resp: 1105

Ion	Ratio	Lower	Upper
105	100		
120	41.4	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

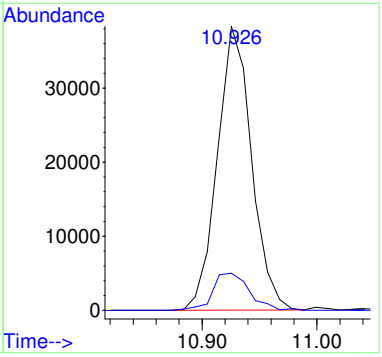


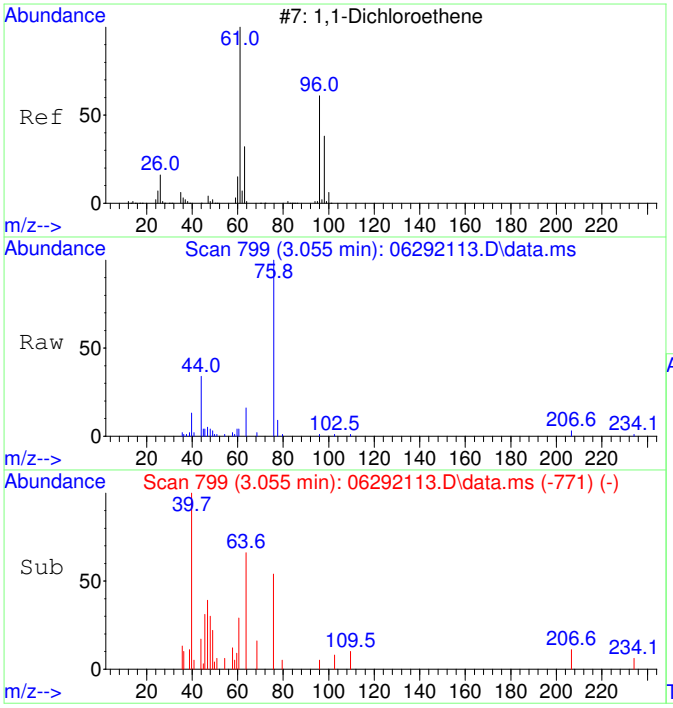


#25
2-Fluorotoluene SCAN
Concen: 4787.66 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion:109 Resp: 79248

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	44.5

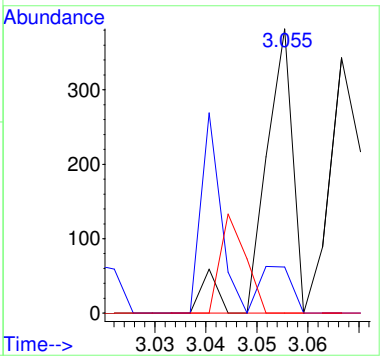


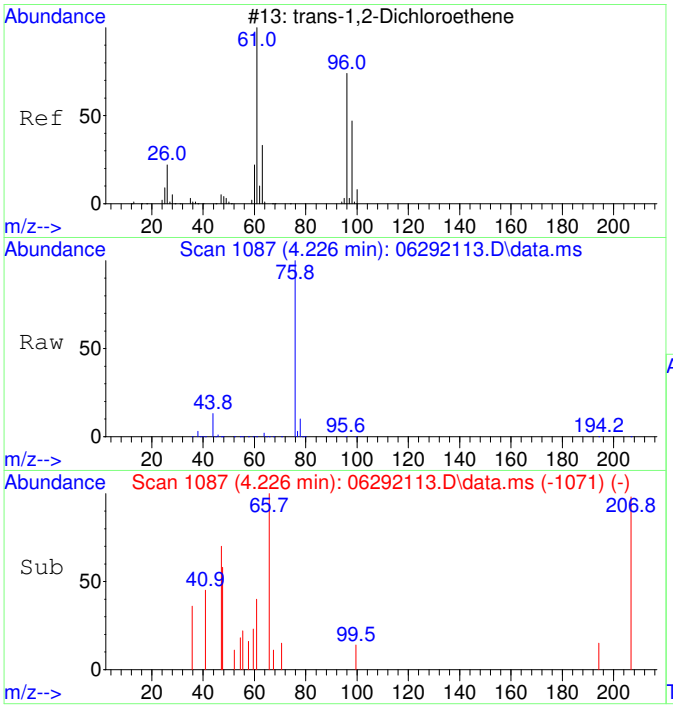


#26
1,1-Dichloroethene SCAN
Concen: 41.47 ug/L
RT: 3.055 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 61 Resp: 145

Ion	Ratio	Lower	Upper
61	100		
96	49.7	33.0	93.0
98	0.0	12.5	72.5#

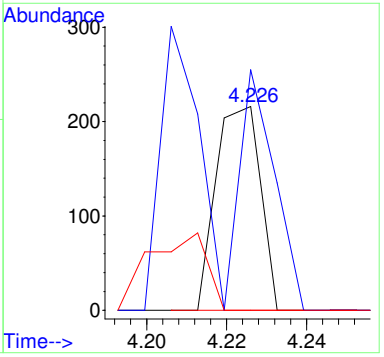


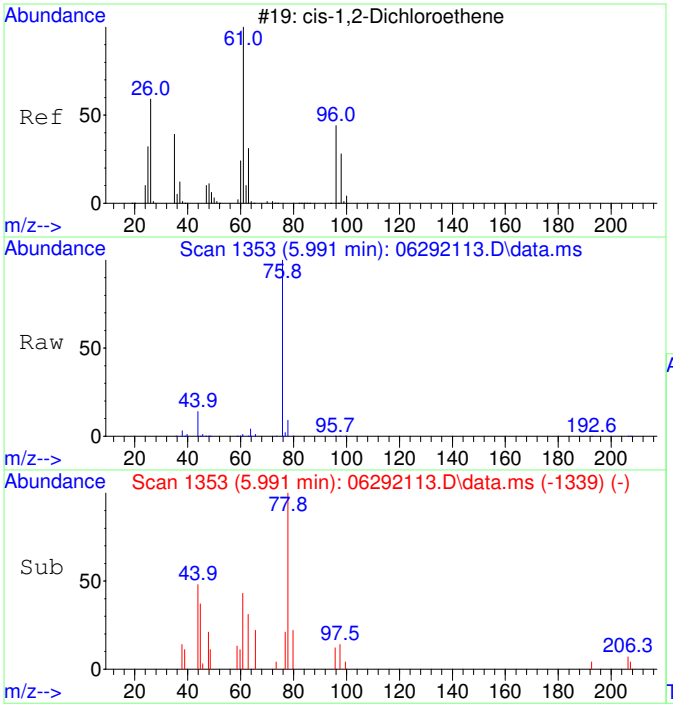


#27
trans-1,2-Dichloroethene SCAN
Concen: 44.15 ug/L
RT: 4.226 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 61 Resp: 167

Ion	Ratio	Lower	Upper
61	100		
96	92.8	49.3	109.3
98	0.0	24.0	84.0#

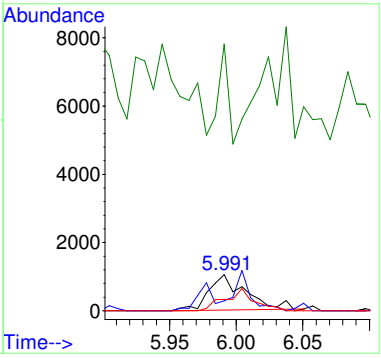


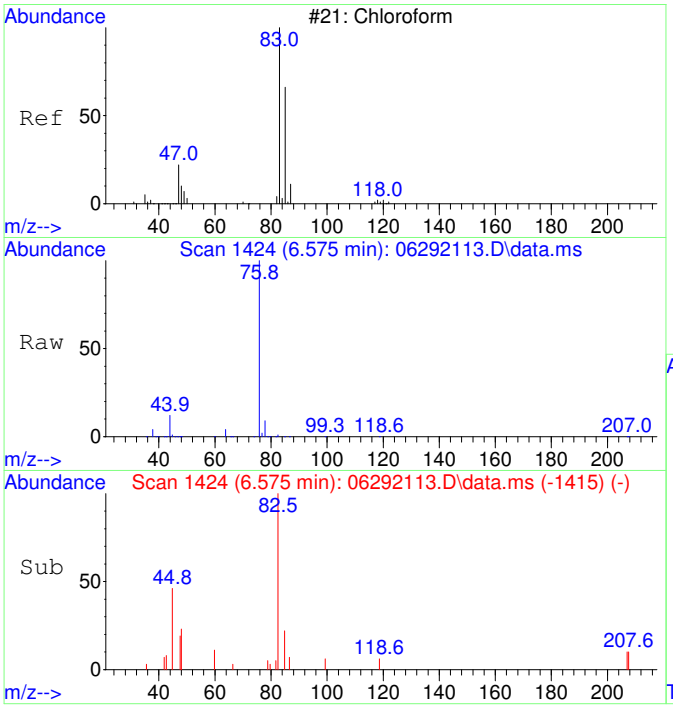


#29
cis-1,2-Dichloroethene SCAN
Concen: 385.04 ug/L
RT: 5.991 min Scan# 1353
Delta R.T. -0.007 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 61 Resp: 1969

Ion	Ratio	Lower	Upper
61	100		
96	36.8	36.9	96.9#
98	50.7	12.1	72.1
64	50.5	0.0	32.6#

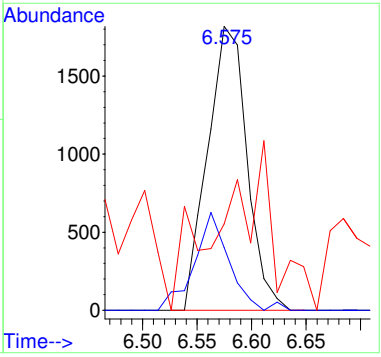


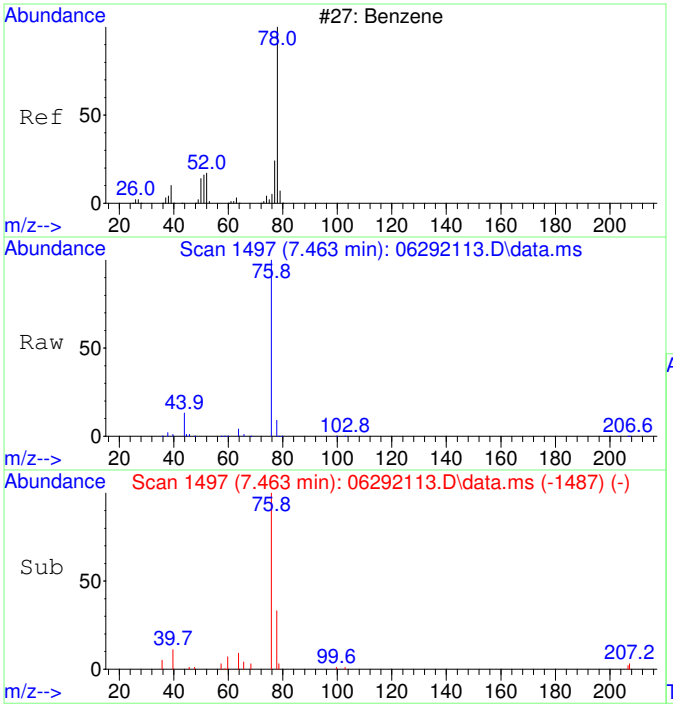


#30
Chloroform SCAN
Concen: 846.68 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 83 Resp: 4579

Ion	Ratio	Lower	Upper
83	100		
85	30.6	27.1	87.1
47	0.0	7.5	67.5#

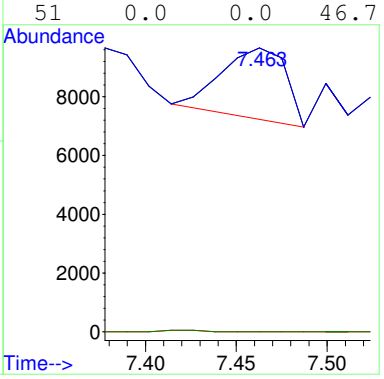


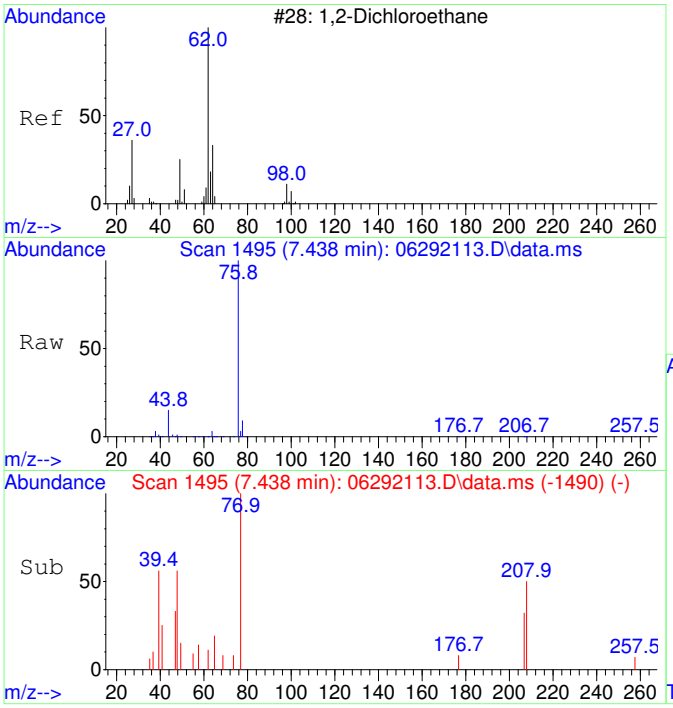


#33
Benzene SCAN
Concen: 444.94 ug/L
RT: 7.463 min Scan# 1497
Delta R.T. 0.024 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 78 Resp: 5645

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

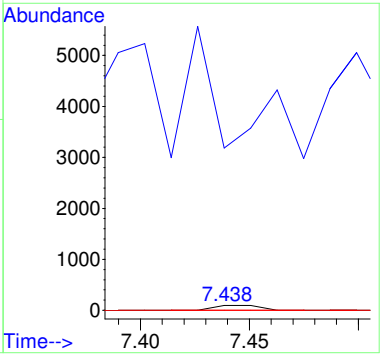


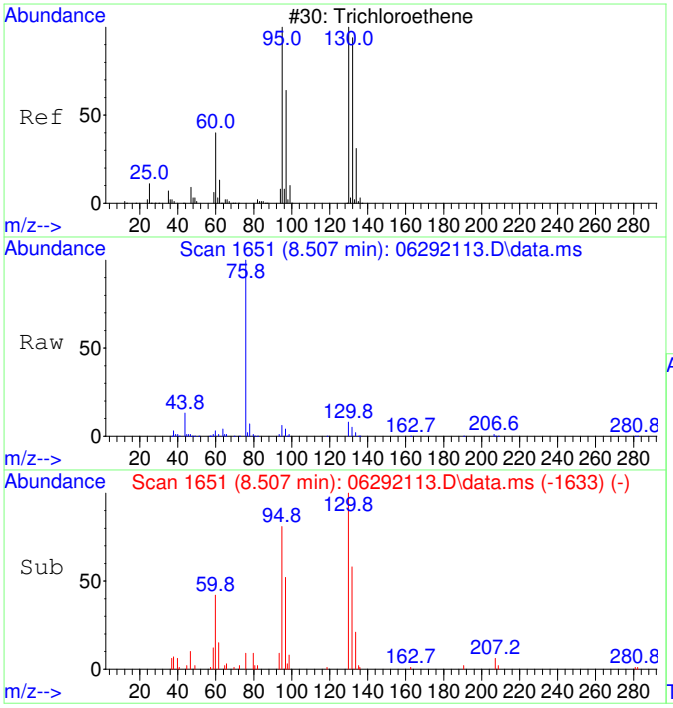


#34
1,2-Dichloroethane SCAN
Concen: 34.25 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. -0.036 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 62 Resp: 137

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

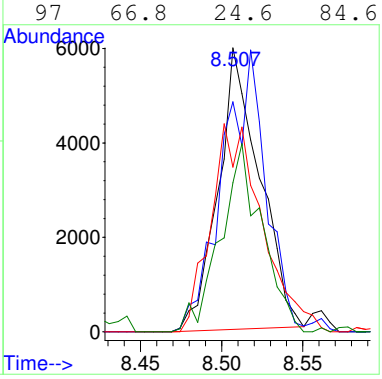


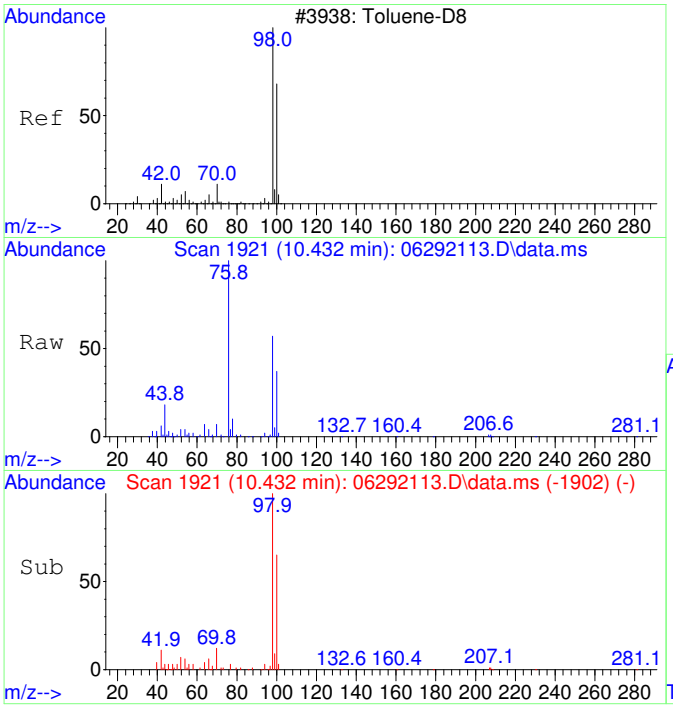


#35
Trichloroethene SCAN
Concen: 3277.87 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion:130 Resp: 10600

Ion	Ratio	Lower	Upper
130	100		
95	102.1	60.0	120.0
132	91.2	54.3	114.3
97	66.8	24.6	84.6

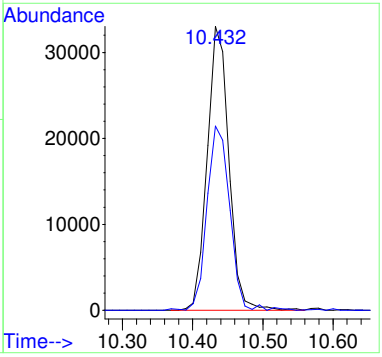


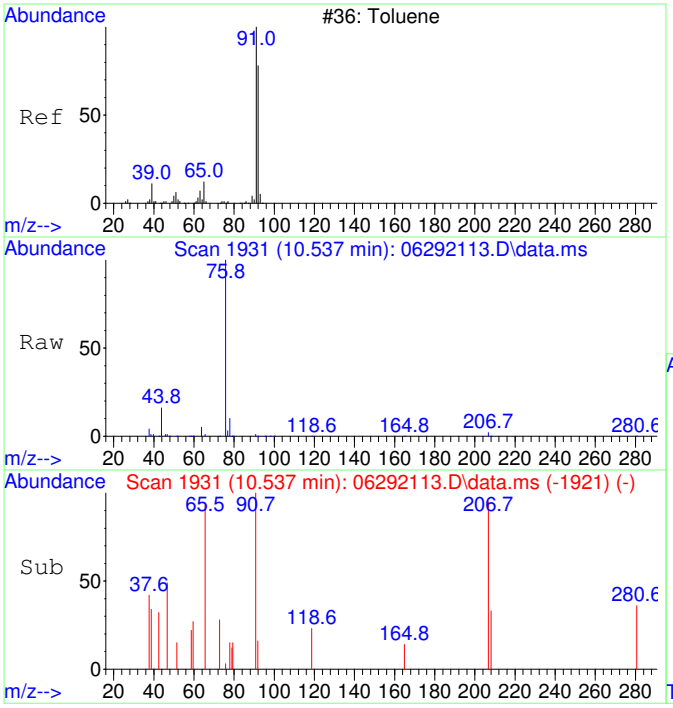


#36
Toluene-d8 SCAN
Concen: 4935.46 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 98 Resp: 70856

Ion	Ratio	Lower	Upper
98	100		
100	66.5	36.1	96.1

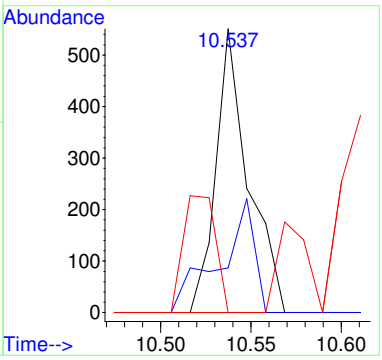


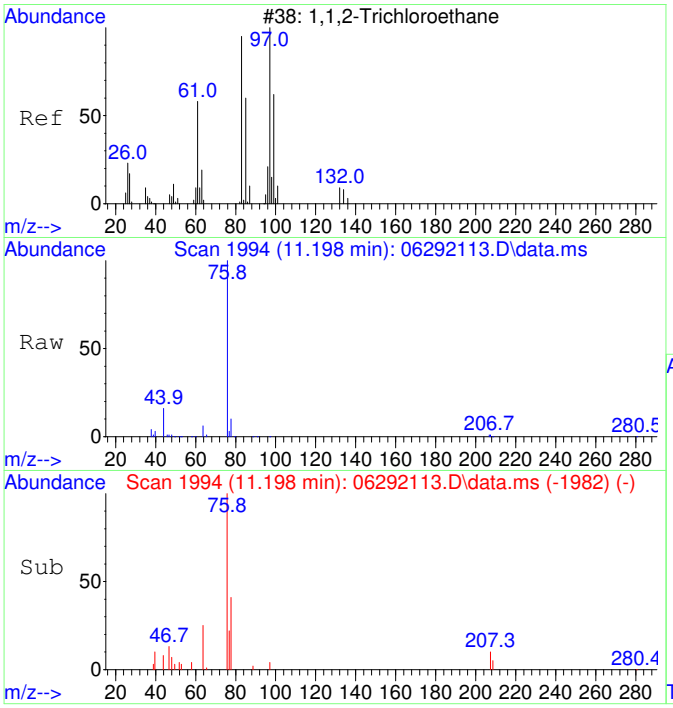


#37
Toluene SCAN
Concen: 37.30 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 91 Resp: 693

Ion	Ratio	Lower	Upper
91	100		
92	43.1	26.5	86.5
65	0.0	0.0	40.6

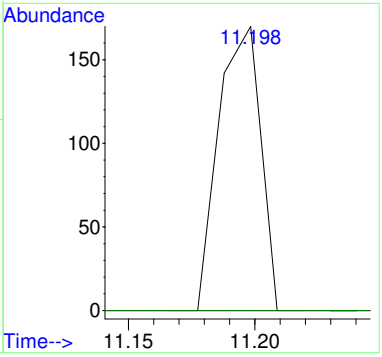


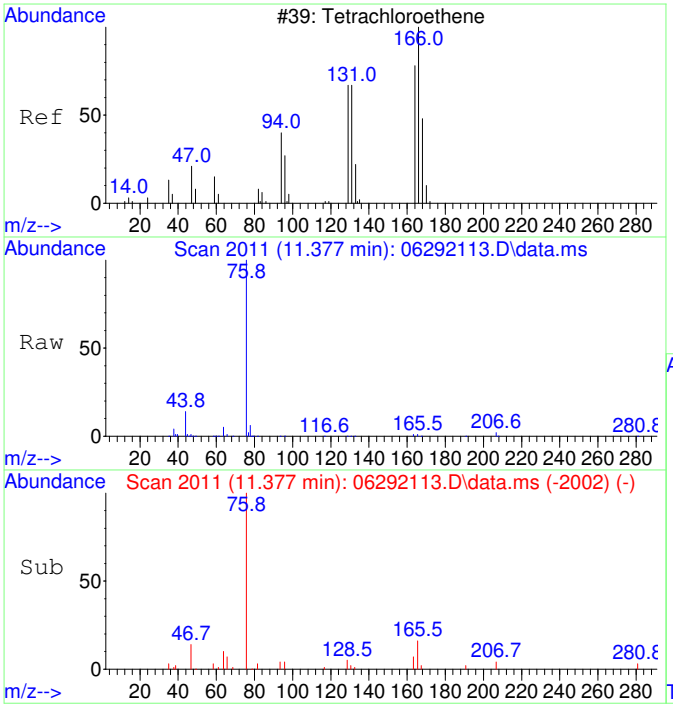


#38
1,1,2-Trichloroethane SCAN
Concen: 44.28 ug/L
RT: 11.198 min Scan# 1994
Delta R.T. 0.021 min
Lab File: 06292113.D
Acq: 29 Jun 2021 13:43

Tgt Ion: 97 Resp: 196

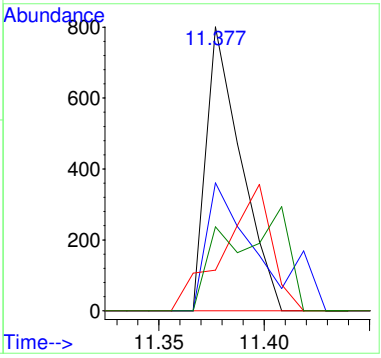
Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#






```
#39
Tetrachloroethene SCAN
Concen:  206.50 ug/L
RT:  11.377 min  Scan# 2011
Delta R.T.  -0.010 min
Lab File:   06292113.D
Acq: 29 Jun 2021  13:43

Tgt Ion:166 Resp:     924
Ion  Ratio  Lower  Upper
166  100
164   67.3   53.9  113.9
131    0.0   45.6  105.6#
129    0.0   51.3  111.3#
```



2106037-26

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292114.D
Acq On : 29 Jun 2021 14:09
InstName : AG5975C
Operator : TD
Sample : 2106037-26
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 30 06:06:33 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

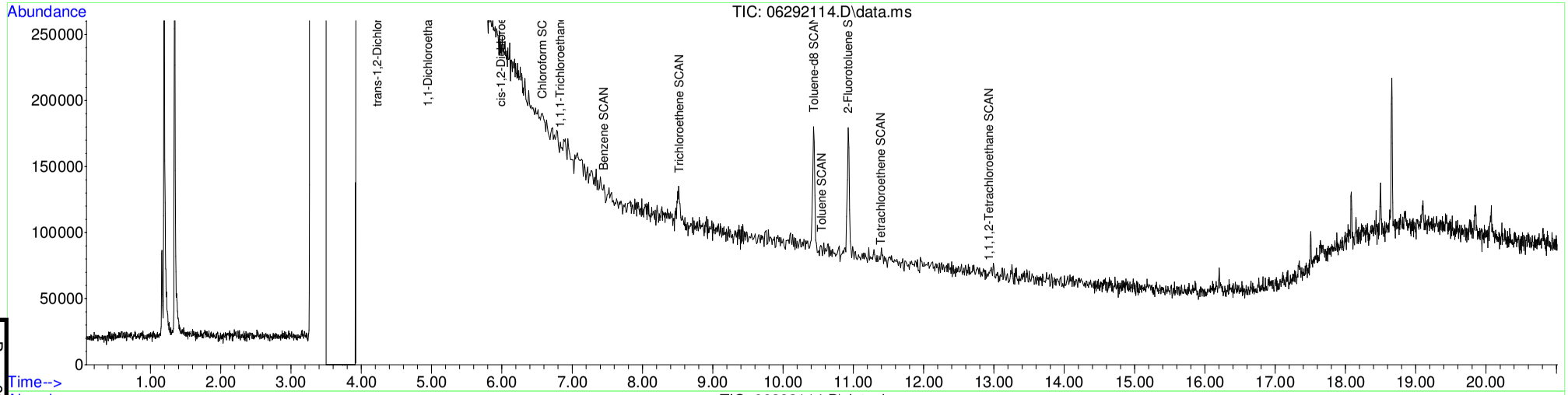
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	145312	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.433	98	124381	4997.09	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 99.94%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.053	61	410	64.78	ug/L #	94
3] trans-1,2-Dichloroethene	4.221	61	259	47.55	ug/L #	95
4] 1,1-Dichloroethane	4.964	63	508	68.00	ug/L #	38
5] cis-1,2-Dichloroethene	5.992	61	3362	469.68	ug/L #	99
6] Chloroform	6.564	83	8043	954.73	ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	296	37.76	ug/L #	92
11] Trichloroethene	8.514	130	17372	2756.40	ug/L	99
13] Toluene	10.528	91	1313	40.53	ug/L	100
15] Tetrachloroethene	11.388	166	1890	228.04	ug/L #	100
19] m&p-Xylene	13.121	91	844	25.75	ug/L #	91
25) 2-Fluorotoluene SCAN	10.925	109	83383	4662.00	ug/L	96
27) trans-1,2-Dichloroethe...	4.219	61	295	72.18	ug/L	81
28) 1,1-Dichloroethane SCAN	4.943	63	202	36.88	ug/L #	33
29) cis-1,2-Dichloroethene...	5.984	61	1873	338.96	ug/L #	22
30) Chloroform SCAN	6.575	83	6115	1046.41	ug/L	78
31) 1,1,1-Trichloroethane ...	6.830	97	161	29.49	ug/L #	28
33) Benzene SCAN	7.451	78	2567	187.25	ug/L	93
35) Trichloroethene SCAN	8.518	130	11512	3294.55	ug/L	90
36) Toluene-d8 SCAN	10.432	98	71240	4592.34	ug/L	99
37) Toluene SCAN	10.548	91	1211	60.32	ug/L #	38
39) Tetrachloroethene SCAN	11.387	166	684	141.47	ug/L #	74
41) 1,1,1,2-Tetrachloroeth...	12.922	131	151	33.98	ug/L #	28

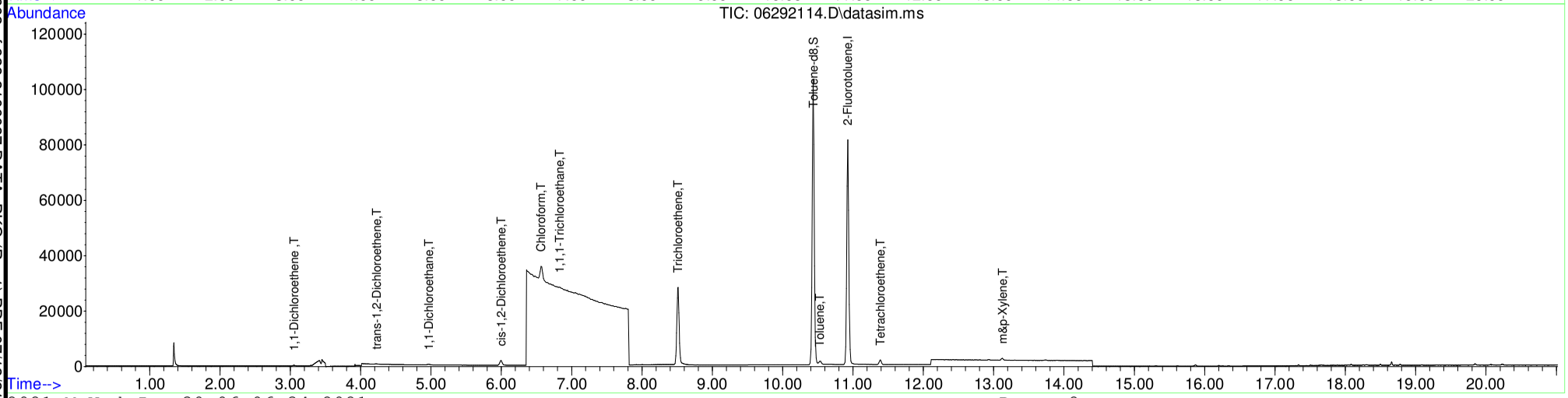
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292114.D
Acq On : 29 Jun 2021 14:09
InstName : AG5975C
Operator : TD
Sample : 2106037-26
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 30 06:06:33 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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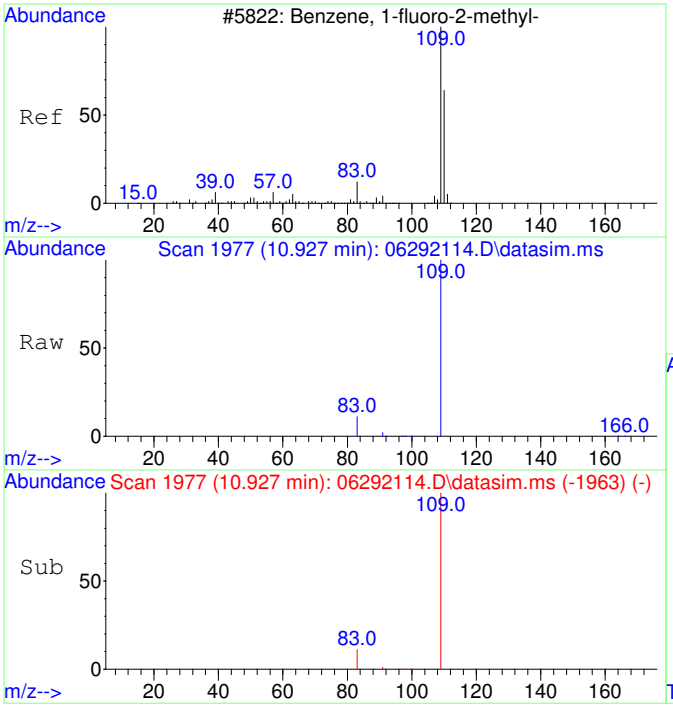
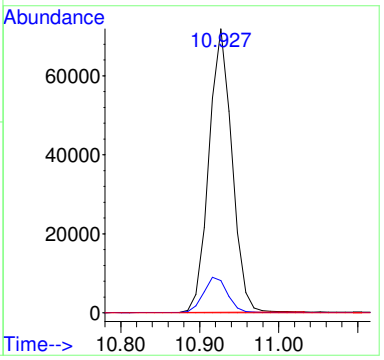
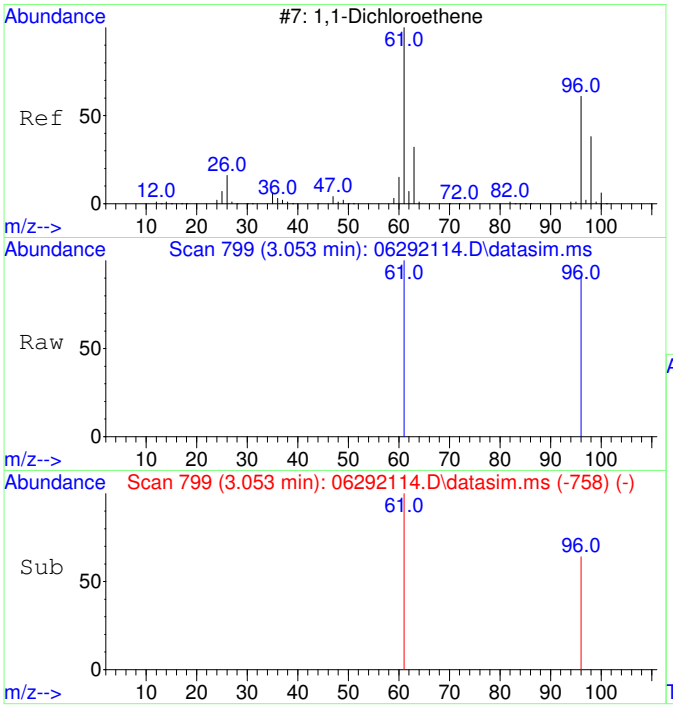


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion:109 Resp: 145312

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

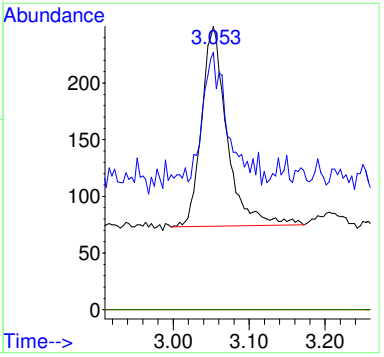


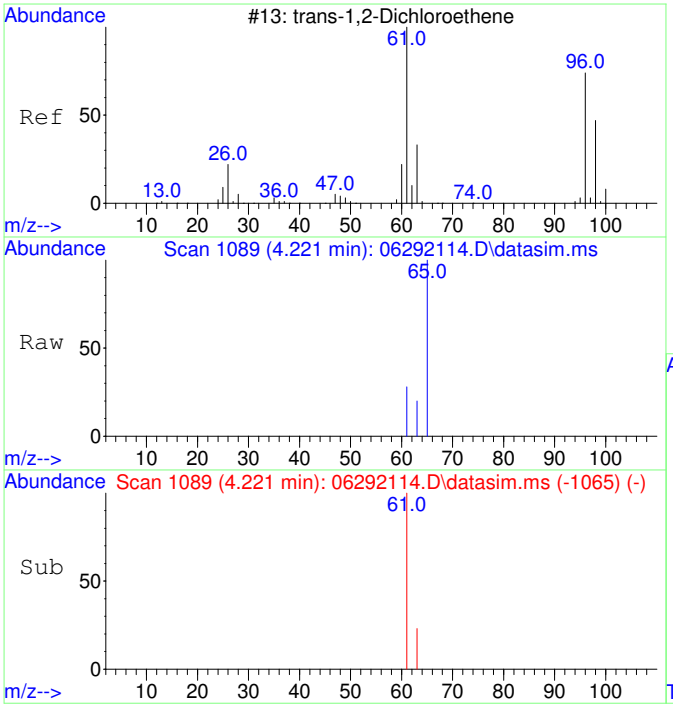


#2
1,1-Dichloroethene
Concen: 64.78 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 61 Resp: 410

Ion	Ratio	Lower	Upper
61	100		
96	60.5	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

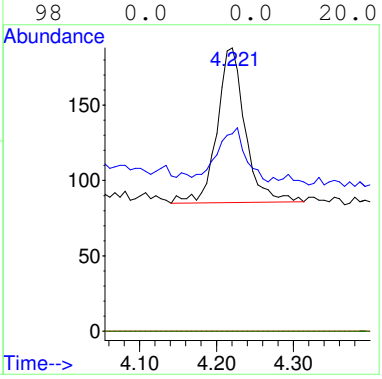


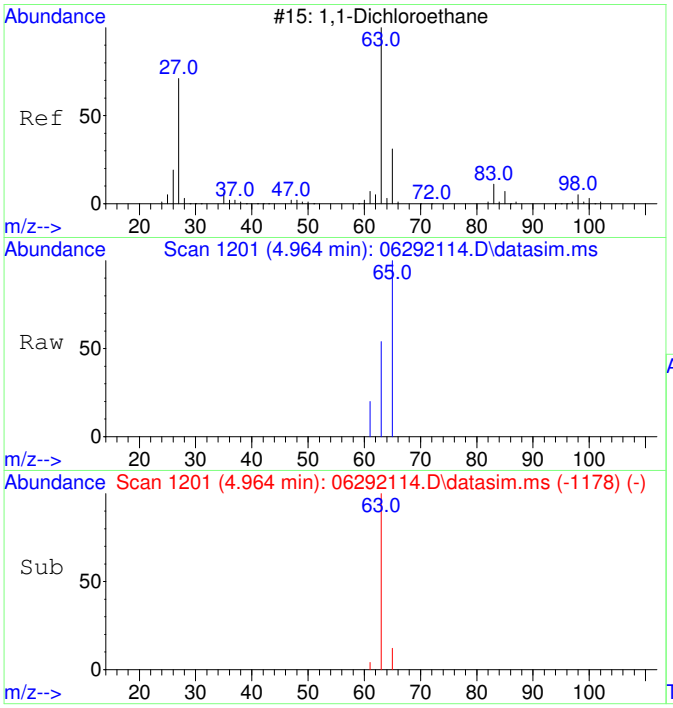


#3
trans-1,2-Dichloroethene
Concen: 47.55 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 61 Resp: 259

Ion	Ratio	Lower	Upper
61	100		
63	35.1	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

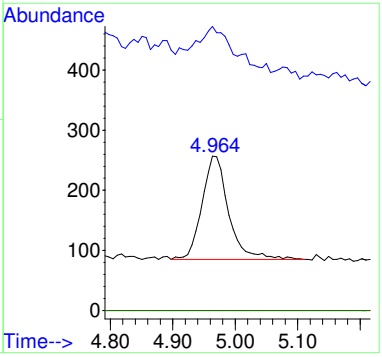


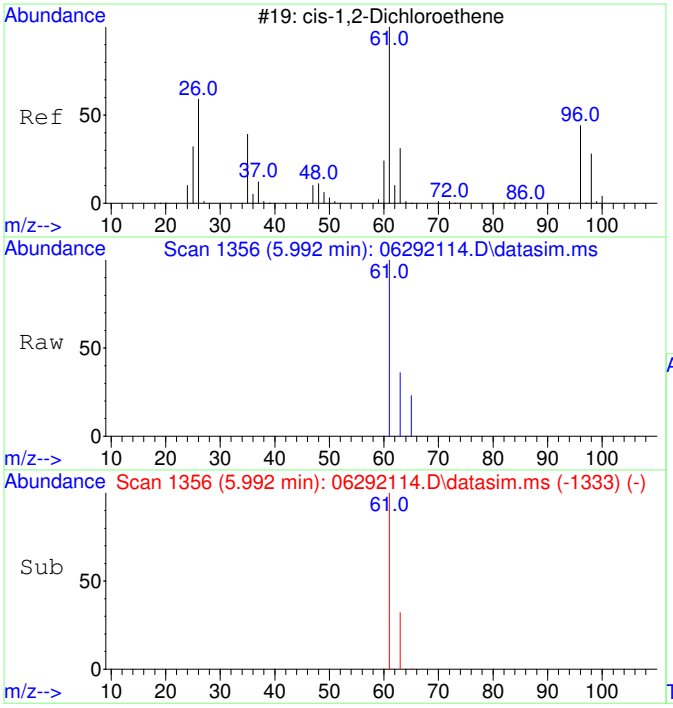


#4
1,1-Dichloroethane
Concen: 68.00 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 63 Resp: 508

Ion	Ratio	Lower	Upper
63	100		
65	65.4	1.3	61.3#
83	0.0	0.0	20.0
98	0.0	0.0	20.0

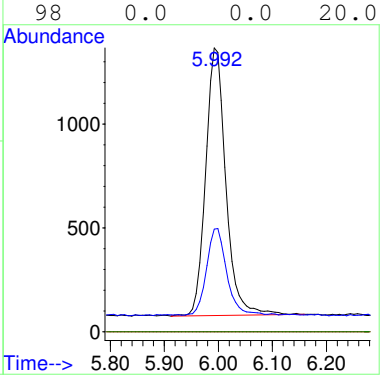


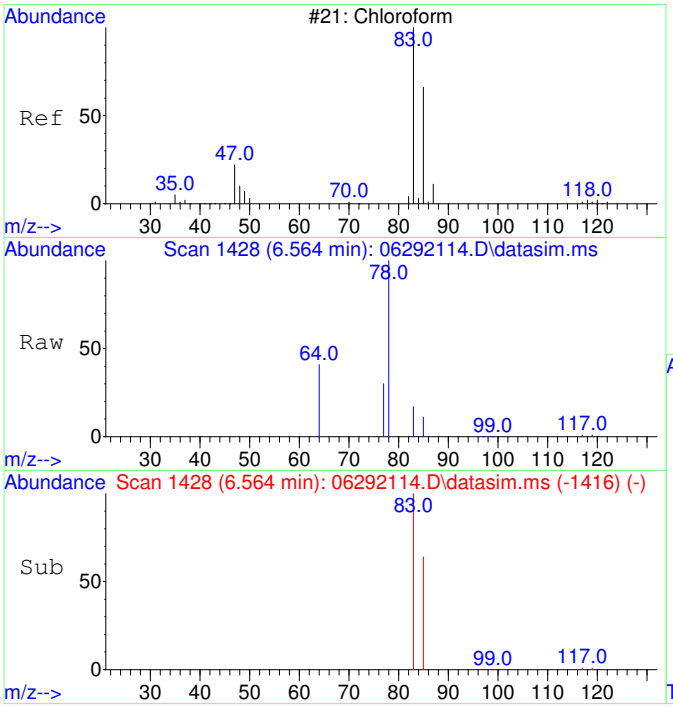


#5
cis-1,2-Dichloroethene
Concen: 469.68 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 61 Resp: 3362

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

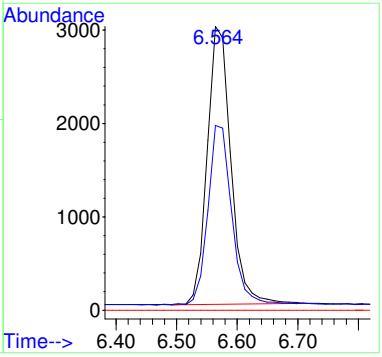


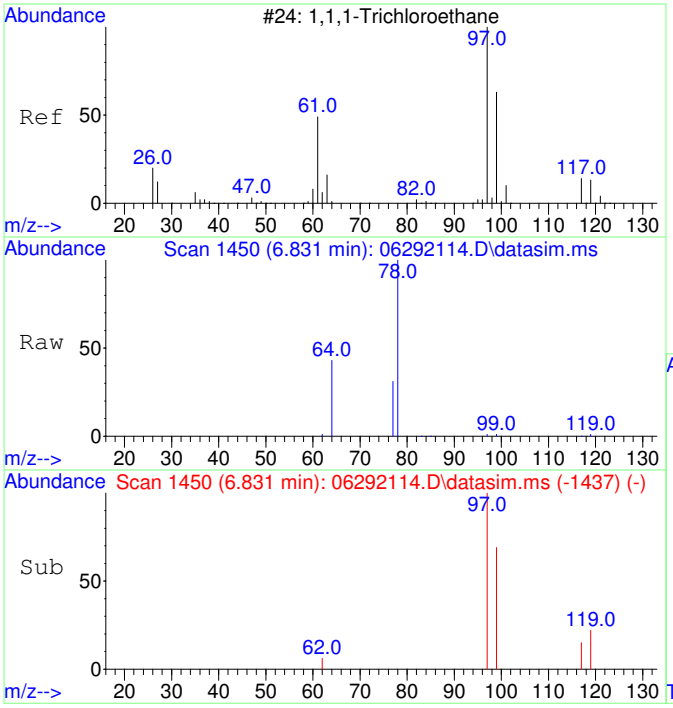


#6
Chloroform
Concen: 954.73 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 83 Resp: 8043

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.5	94.5
87	0.0	0.0	20.0

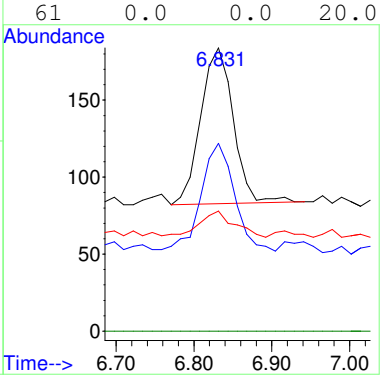


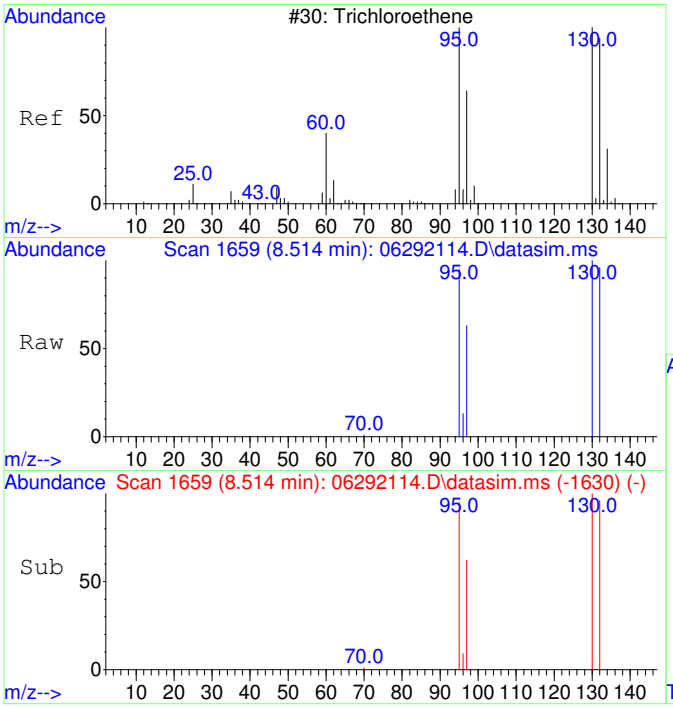


#7
1,1,1-Trichloroethane
Concen: 37.76 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 97 Resp: 296

Ion	Ratio	Lower	Upper
97	100		
99	69.9	34.4	94.4
117	17.9	0.0	42.8
61	0.0	0.0	20.0

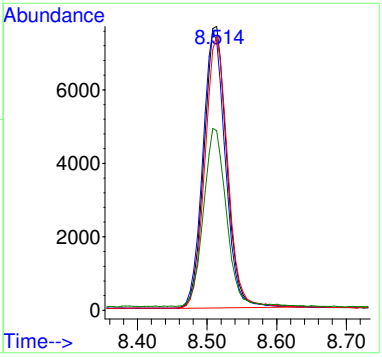


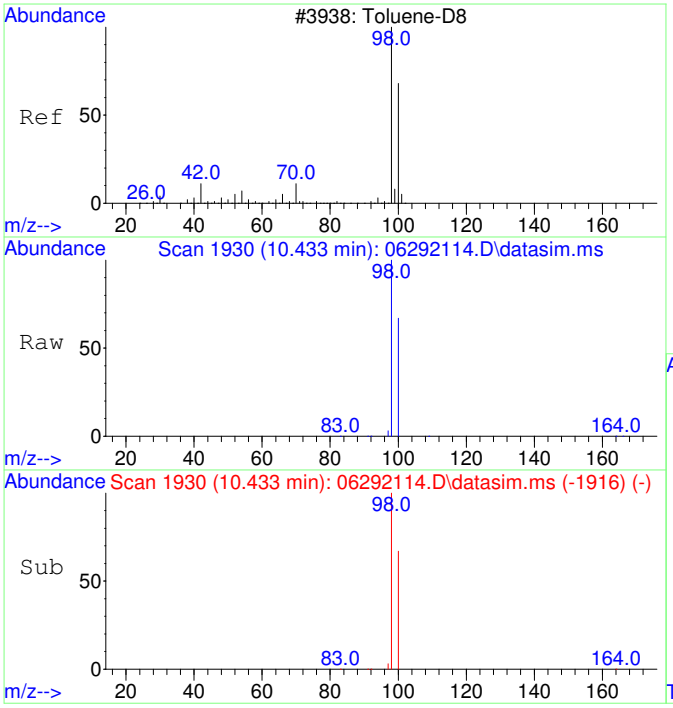


#11
Trichloroethene
Concen: 2756.40 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion:130 Resp: 17372

Ion	Ratio	Lower	Upper
130	100		
95	97.1	65.8	125.8
132	95.6	75.8	115.8
97	62.0	42.0	82.0

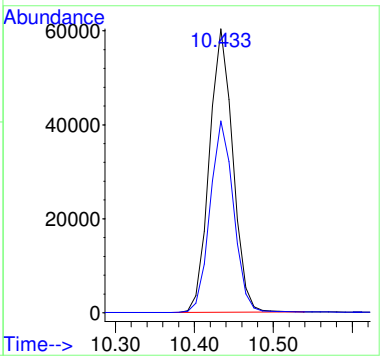


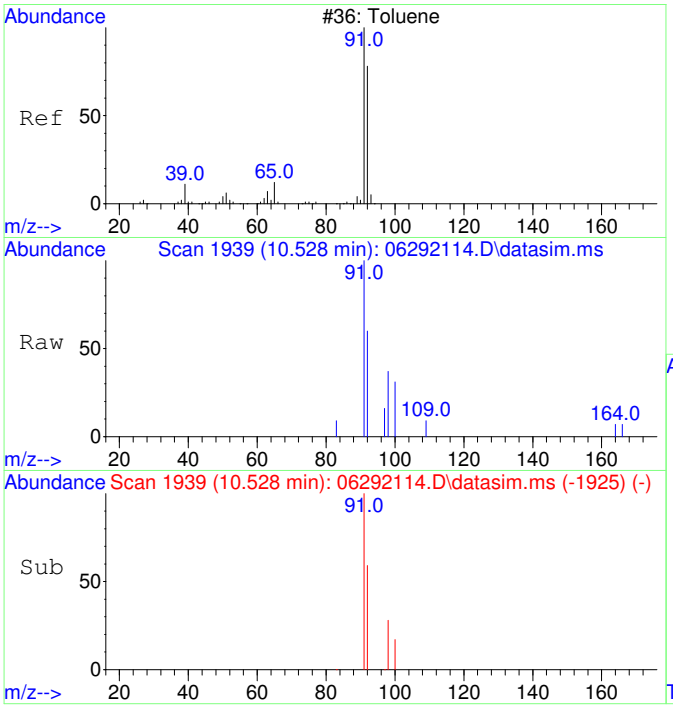


#12
Toluene-d8
Concen: 4997.09 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 98 Resp: 124381

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.3	97.3

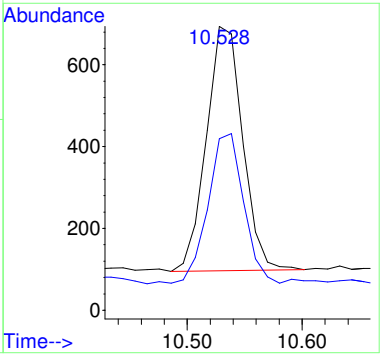


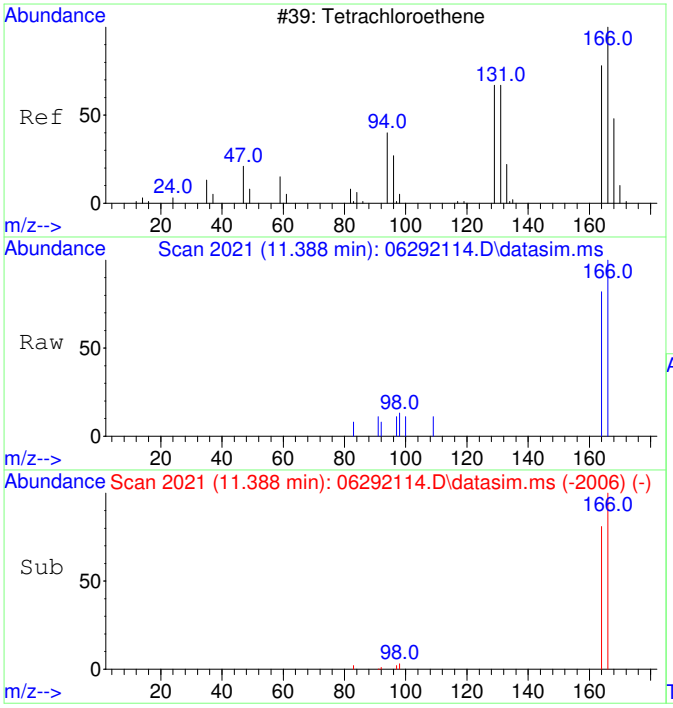


#13
Toluene
Concen: 40.53 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 91 Resp: 1313

Ion	Ratio	Lower	Upper
91	100		
92	60.2	30.2	90.2

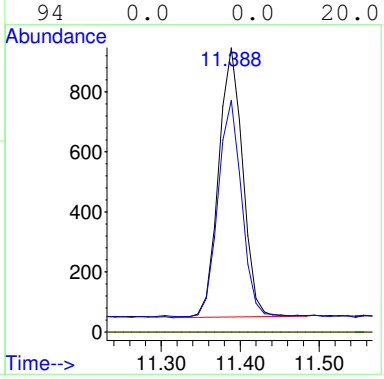


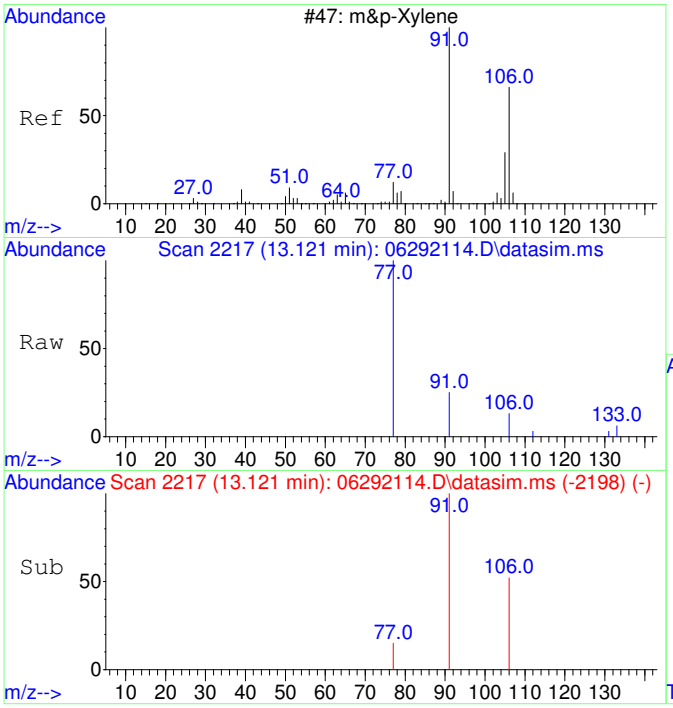


#15
Tetrachloroethene
Concen: 228.04 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion:166 Resp: 1890

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

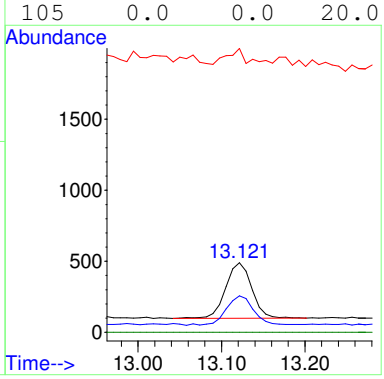


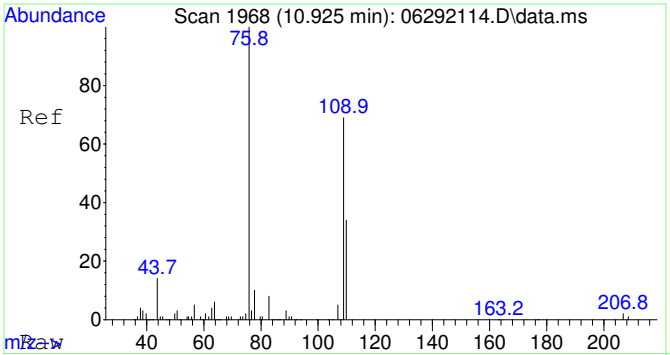


#19
m&p-Xylene
Concen: 25.75 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 91 Resp: 844

Ion	Ratio	Lower	Upper
91	100		
106	56.0	21.4	81.4
77	19.7	0.0	42.7
105	0.0	0.0	20.0

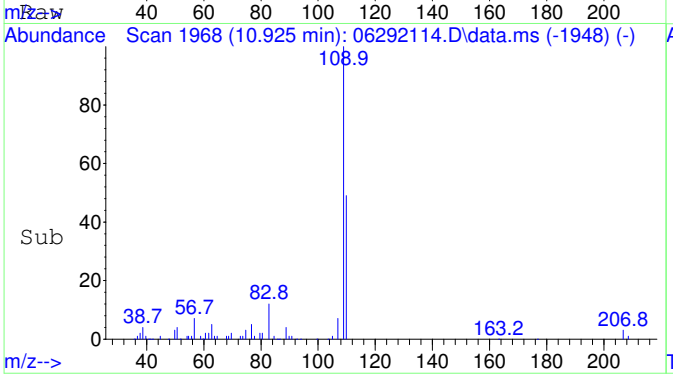


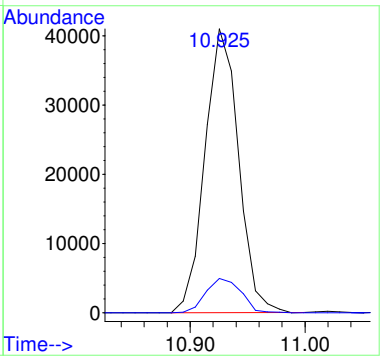


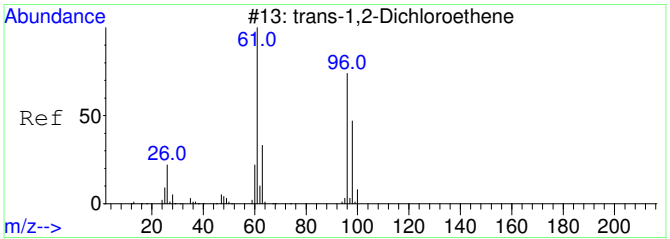
#25
2-Fluorotoluene SCAN
Concen: 4662.00 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion:109 Resp: 83383

Ion	Ratio	Lower	Upper
109	100		
83	12.7	0.0	44.5



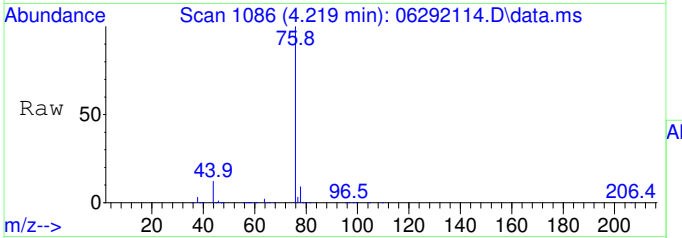


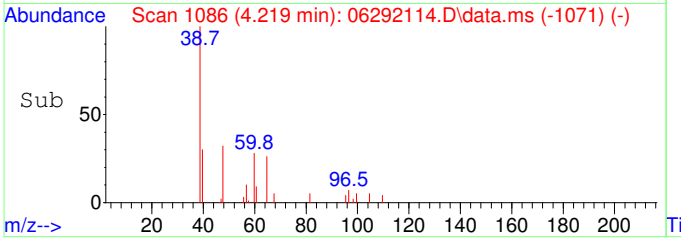


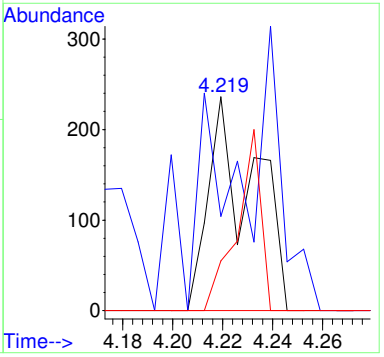
#27
trans-1,2-Dichloroethene SCAN
Concen: 72.18 ug/L
RT: 4.219 min Scan# 1086
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

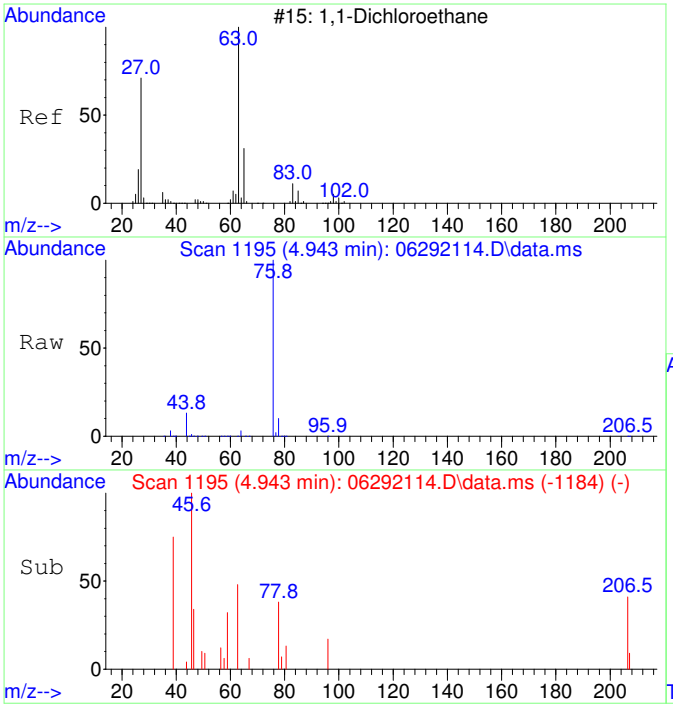
Tgt Ion: 61 Resp: 295

Ion	Ratio	Lower	Upper
61	100		
96	58.3	49.3	109.3
98	44.7	24.0	84.0





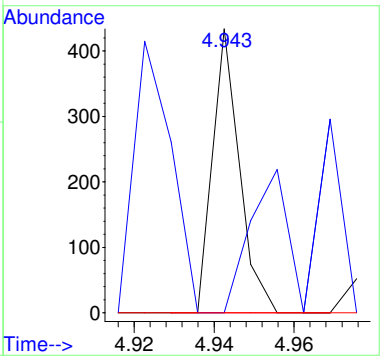


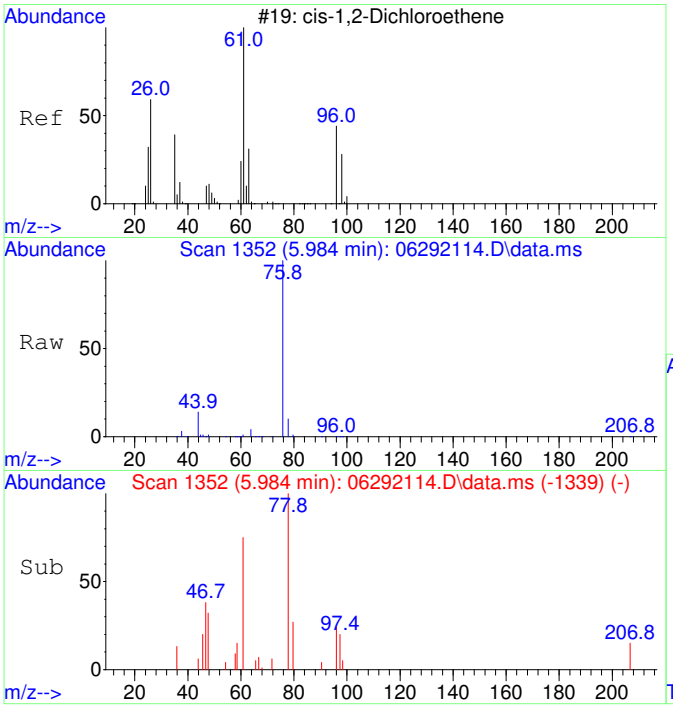


#28
1,1-Dichloroethane SCAN
Concen: 36.88 ug/L
RT: 4.943 min Scan# 1195
Delta R.T. -0.027 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 63 Resp: 202

Ion	Ratio	Lower	Upper
63	100		
65	70.8	0.0	57.3#
83	0.0	0.0	46.2

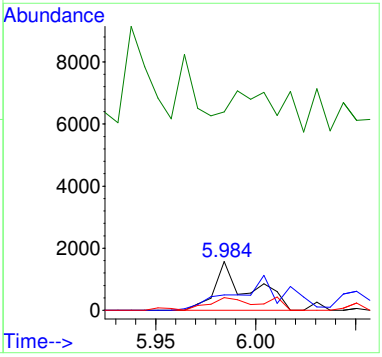


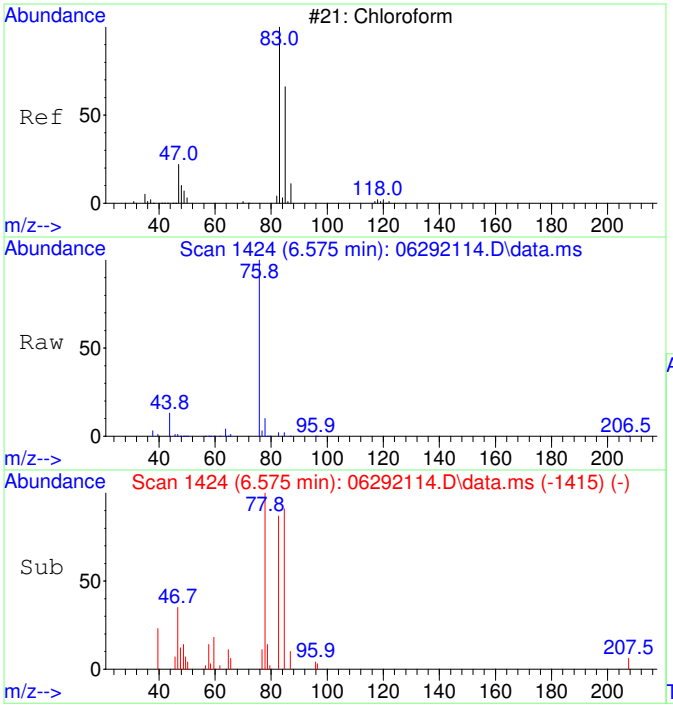


#29
cis-1,2-Dichloroethene SCAN
Concen: 338.96 ug/L
RT: 5.984 min Scan# 1352
Delta R.T. -0.013 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 61 Resp: 1873

Ion	Ratio	Lower	Upper
61	100		
96	0.0	36.9	96.9#
98	0.0	12.1	72.1#
64	50.3	0.0	32.6#

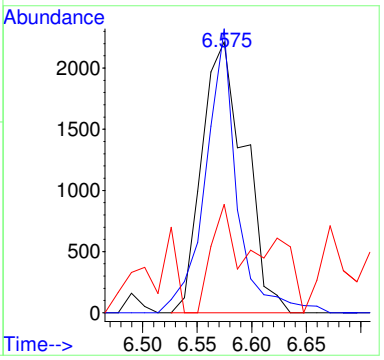


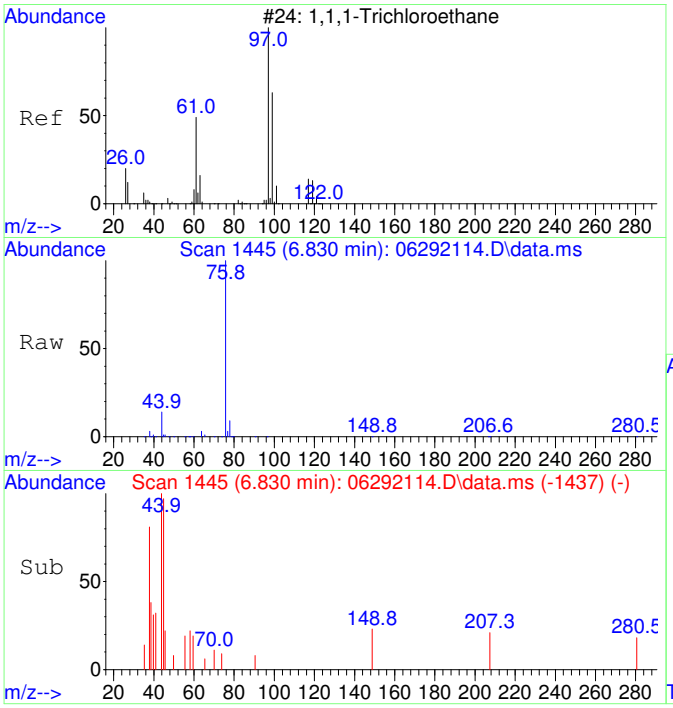


#30
Chloroform SCAN
Concen: 1046.41 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 83 Resp: 6115

Ion	Ratio	Lower	Upper
83	100		
85	76.2	27.1	87.1
47	46.5	7.5	67.5

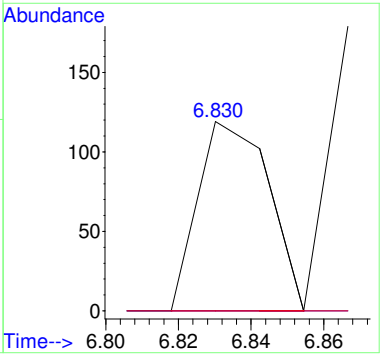


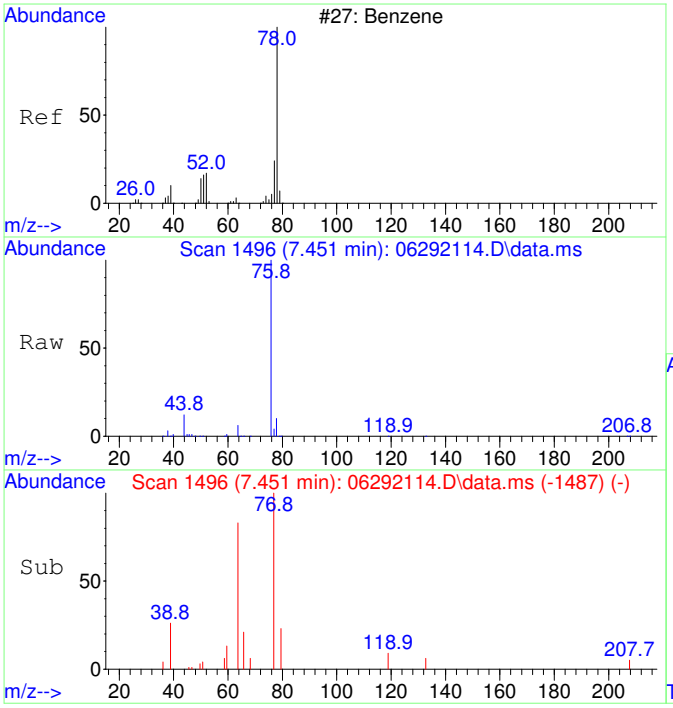


#31
1,1,1-Trichloroethane SCAN
Concen: 29.49 ug/L
RT: 6.830 min Scan# 1445
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 97 Resp: 161

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

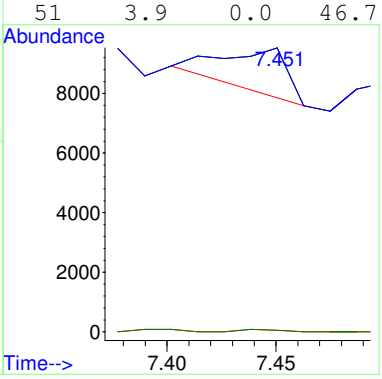


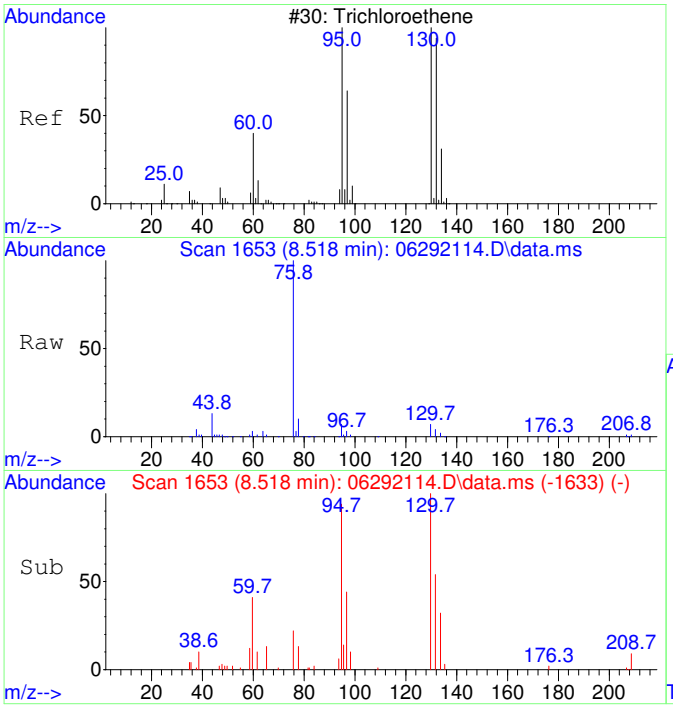


#33
Benzene SCAN
Concen: 187.25 ug/L
RT: 7.451 min Scan# 1496
Delta R.T. 0.012 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 78 Resp: 2567

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.9	0.0	46.7
51	3.9	0.0	46.7

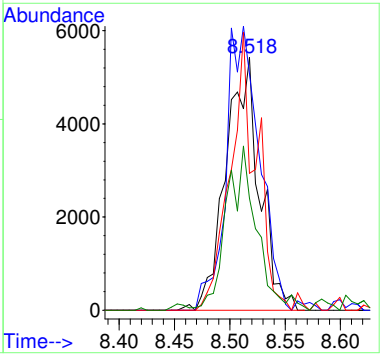


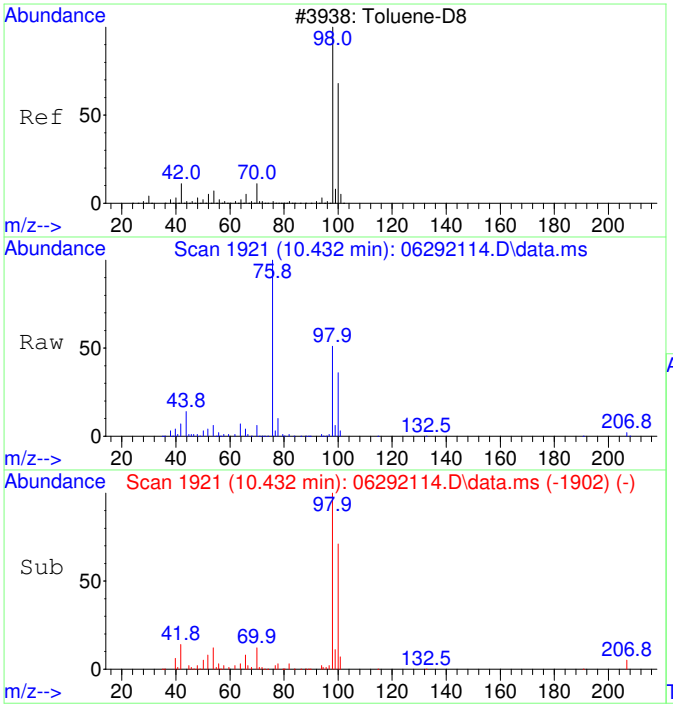


#35
Trichloroethene SCAN
Concen: 3294.55 ug/L
RT: 8.518 min Scan# 1653
Delta R.T. 0.011 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion:130 Resp: 11512

Ion	Ratio	Lower	Upper
130	100		
95	111.3	60.0	120.0
132	86.4	54.3	114.3
97	56.2	24.6	84.6

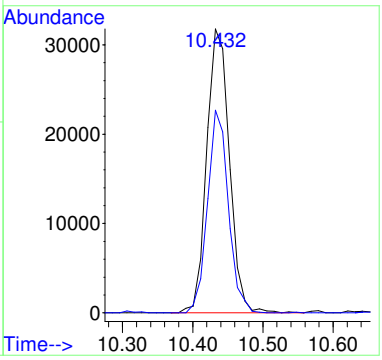


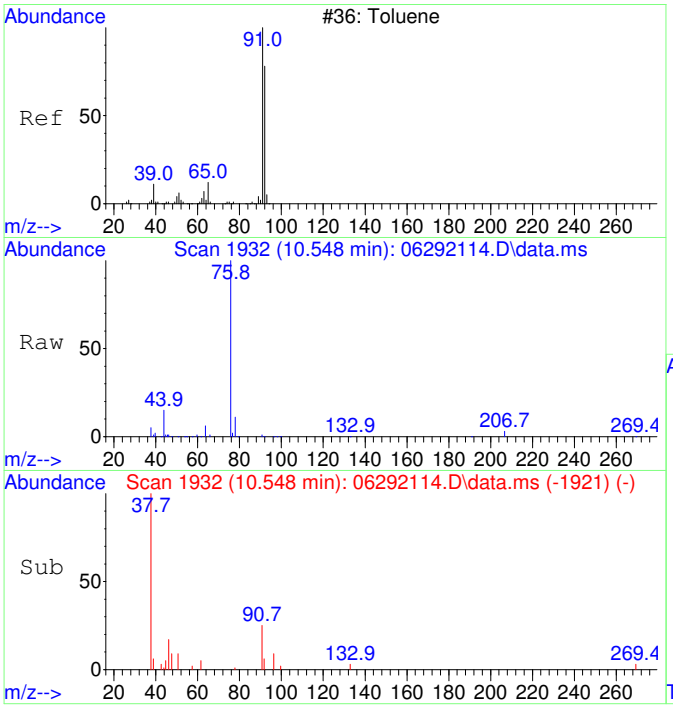


#36
Toluene-d8 SCAN
Concen: 4592.34 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 98 Resp: 71240

Ion	Ratio	Lower	Upper
98	100		
100	65.7	36.1	96.1

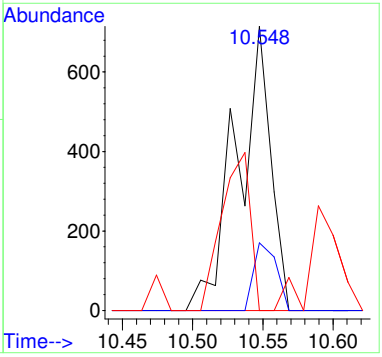


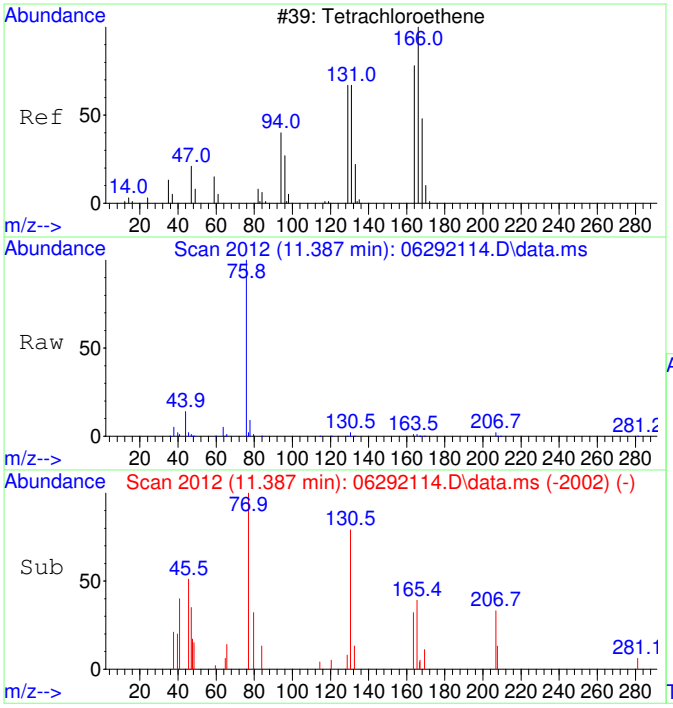


#37
Toluene SCAN
Concen: 60.32 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion: 91 Resp: 1211

Ion	Ratio	Lower	Upper
91	100		
92	15.9	26.5	86.5#
65	47.0	0.0	40.6#

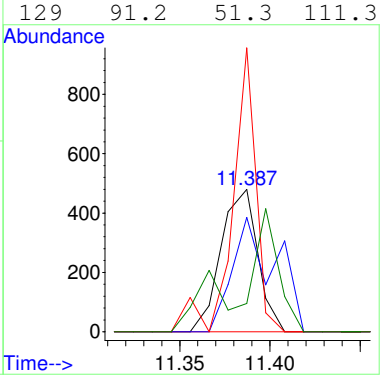


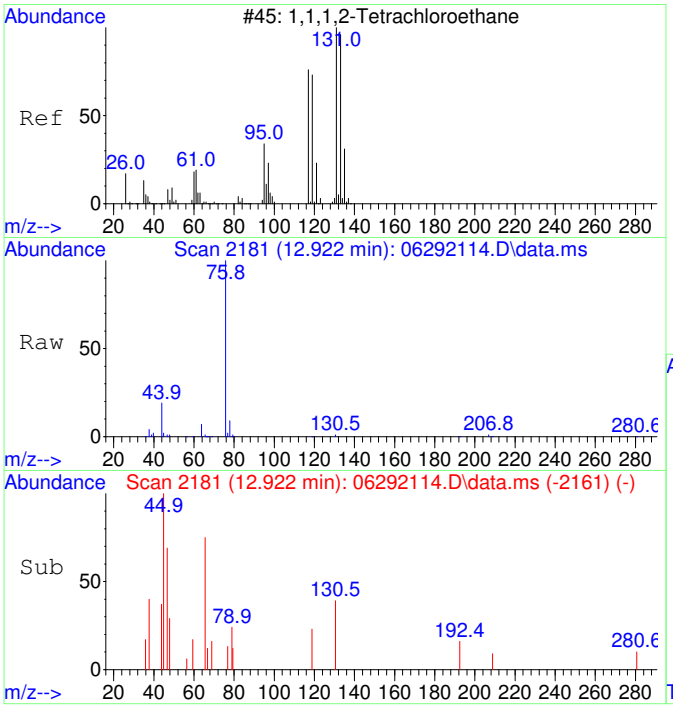


#39
Tetrachloroethene SCAN
Concen: 141.47 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion:166 Resp: 684

Ion	Ratio	Lower	Upper
166	100		
164	92.8	53.9	113.9
131	126.6	45.6	105.6#
129	91.2	51.3	111.3

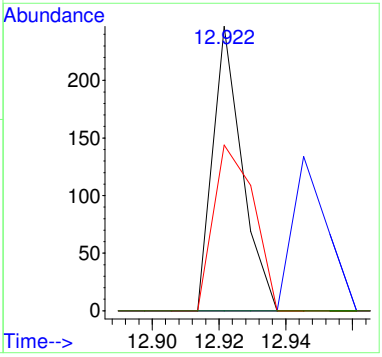




#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 33.98 ug/L
RT: 12.922 min Scan# 2181
Delta R.T. 0.056 min
Lab File: 06292114.D
Acq: 29 Jun 2021 14:09

Tgt Ion:131 Resp: 151

Ion	Ratio	Lower	Upper
131	100		
133	0.0	61.4	121.4#
119	80.1	33.6	93.6
117	0.0	39.6	99.6#



2106037-27

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292115.D
Acq On : 29 Jun 2021 14:36
InstName : AG5975C
Operator : TD
Sample : 2106037-27
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 30 06:06:38 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

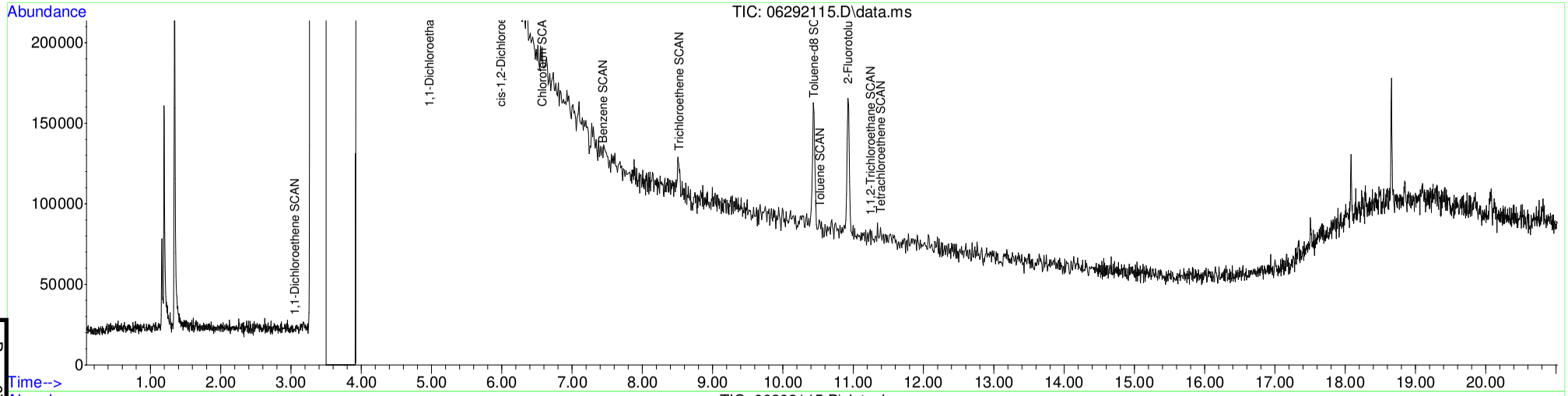
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	126449	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	109594	5059.83	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.20%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.053	61	389	70.63	ug/L #	80
3] trans-1,2-Dichloroethene	4.221	61	203	42.83	ug/L #	75
4] 1,1-Dichloroethane	4.970	63	368	56.61	ug/L #	70
5] cis-1,2-Dichloroethene	5.992	61	3558	571.21	ug/L #	100
6] Chloroform	6.564	83	2018	275.28	ug/L #	97
7] 1,1,1-Trichloroethane	6.832	97	244	35.77	ug/L #	88
11] Trichloroethene	8.514	130	13247	2415.44	ug/L	98
13] Toluene	10.528	91	889	31.53	ug/L	95
15] Tetrachloroethene	11.389	166	932	129.23	ug/L #	98
25) 2-Fluorotoluene SCAN	10.926	109	79629	5116.25	ug/L	100
26) 1,1-Dichloroethene SCAN	3.048	61	166	50.50	ug/L #	59
28) 1,1-Dichloroethane SCAN	4.969	63	123	25.81	ug/L #	1
29) cis-1,2-Dichloroethene...	5.991	61	2281	474.38	ug/L #	71
30) Chloroform SCAN	6.575	83	1325	260.56	ug/L #	36
33) Benzene SCAN	7.439	78	3256	272.94	ug/L #	90
35) Trichloroethene SCAN	8.518	130	9299	3058.21	ug/L	94
36) Toluene-d8 SCAN	10.443	98	69882	5176.80	ug/L	97
37) Toluene SCAN	10.527	91	453	25.93	ug/L	87
38) 1,1,2-Trichloroethane ...	11.240	97	124	29.79	ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	299	71.07	ug/L #	42

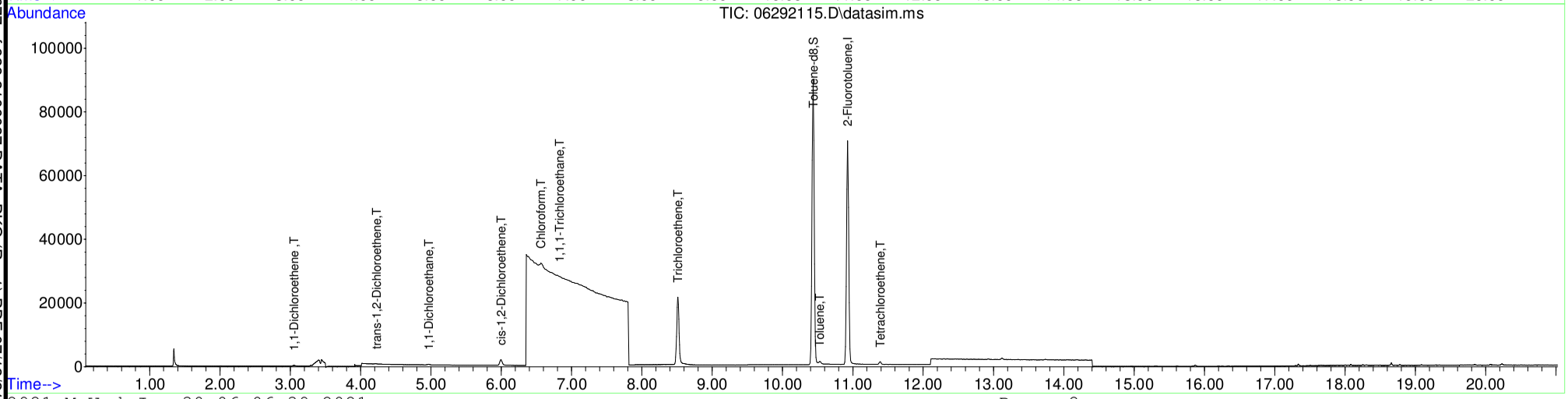
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292115.D
Acq On : 29 Jun 2021 14:36
InstName : AG5975C
Operator : TD
Sample : 2106037-27
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 30 06:06:38 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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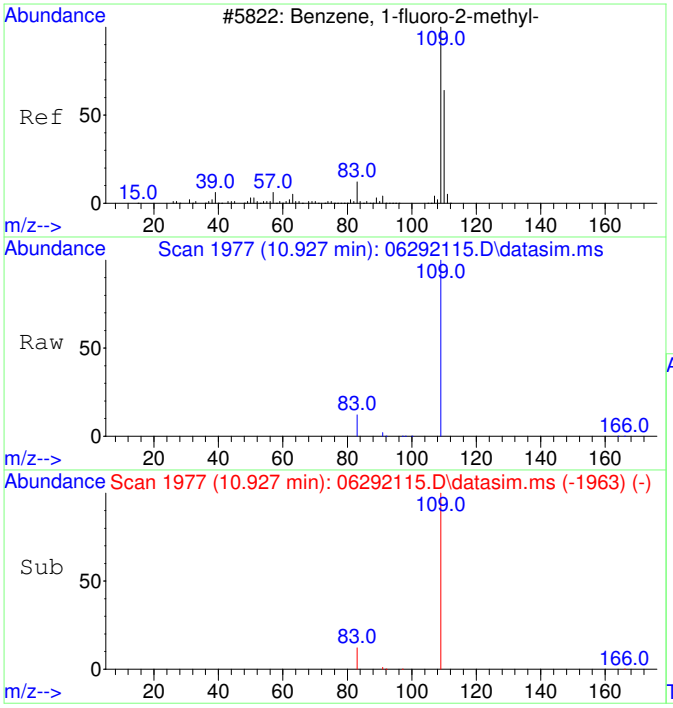
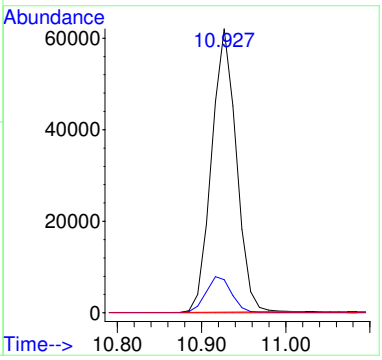
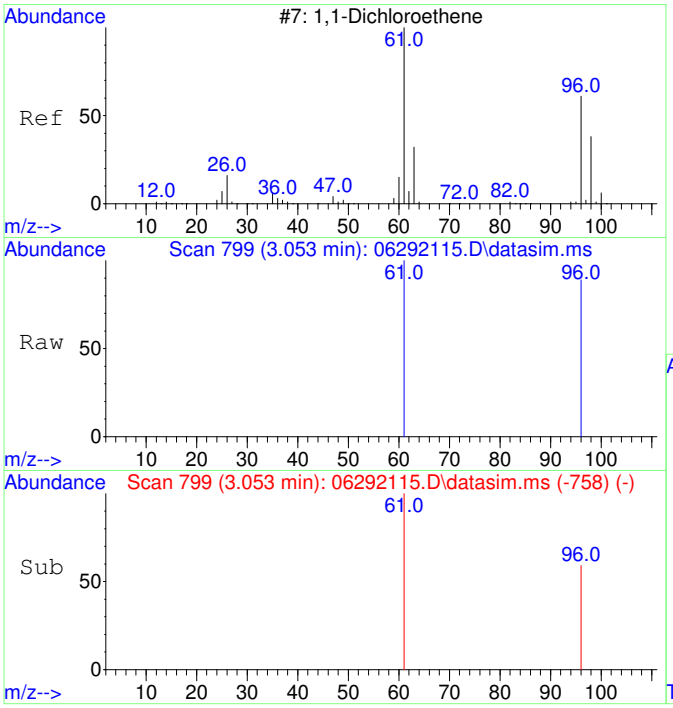


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion:109 Resp: 126449

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

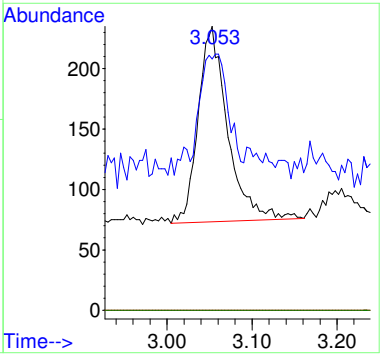


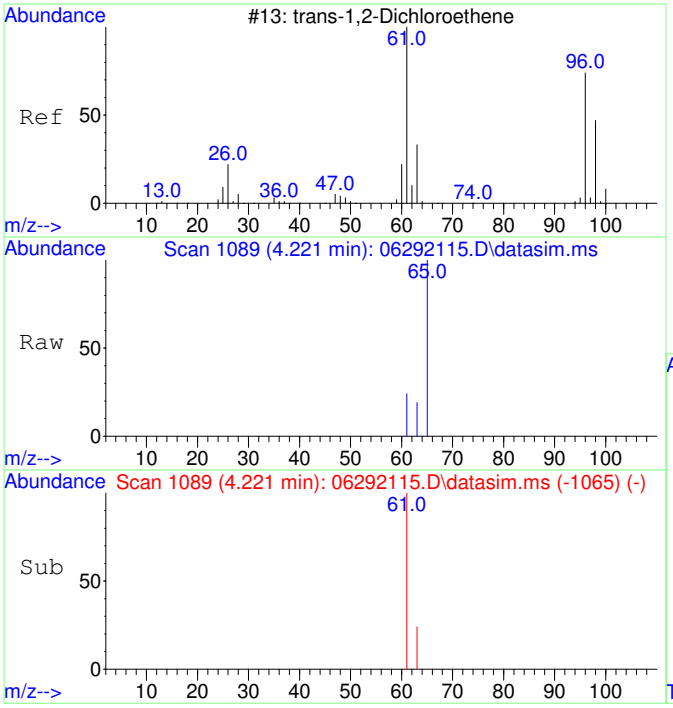


#2
1,1-Dichloroethene
Concen: 70.63 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 61 Resp: 389

Ion	Ratio	Lower	Upper
61	100		
96	48.8	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

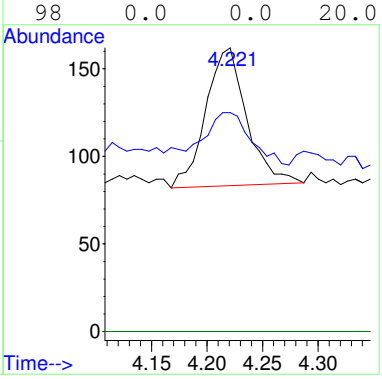


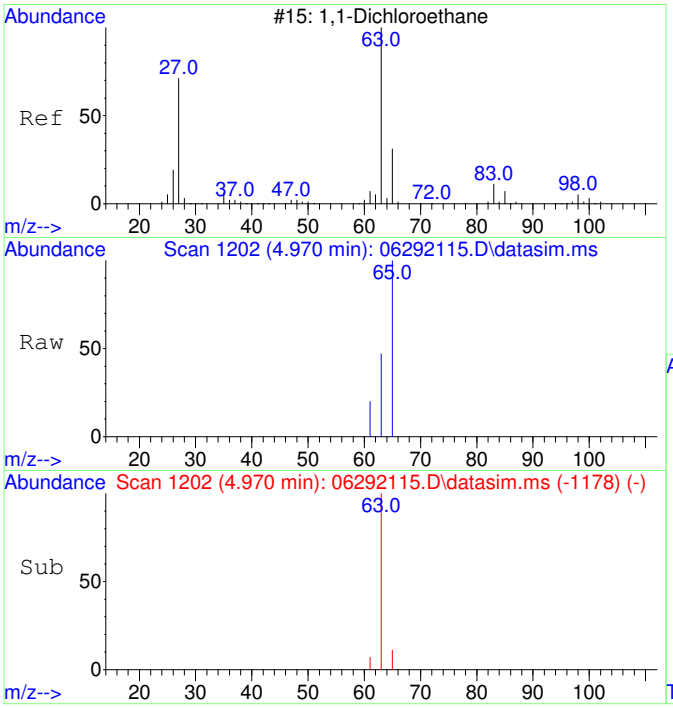


#3
trans-1,2-Dichloroethene
Concen: 42.83 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 61 Resp: 203

Ion	Ratio	Lower	Upper
61	100		
63	46.8	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

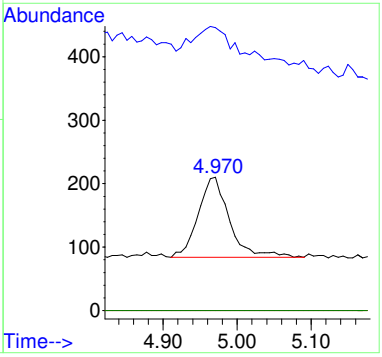


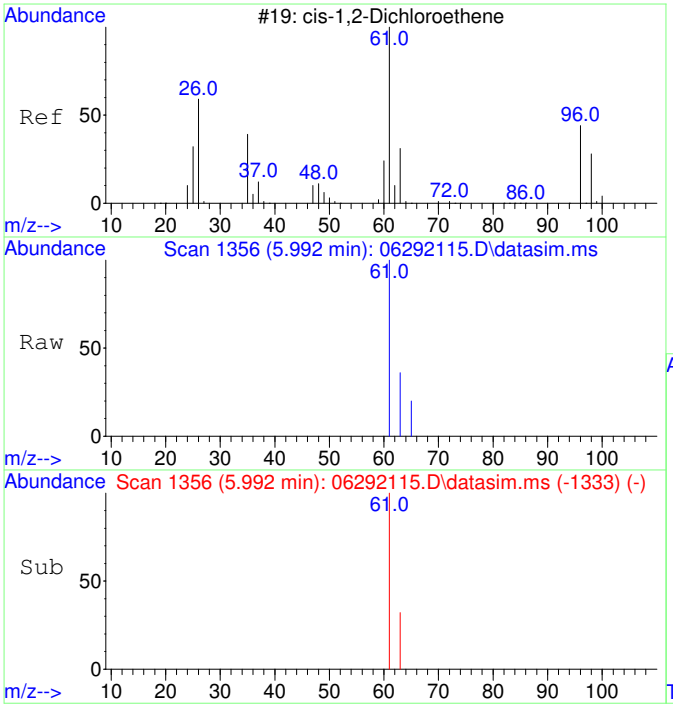


#4
1,1-Dichloroethane
Concen: 56.61 ug/L
RT: 4.970 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 63 Resp: 368

Ion	Ratio	Lower	Upper
63	100		
65	48.1	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

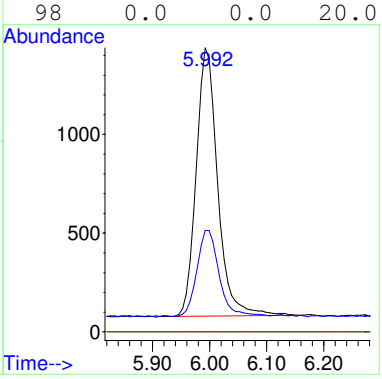


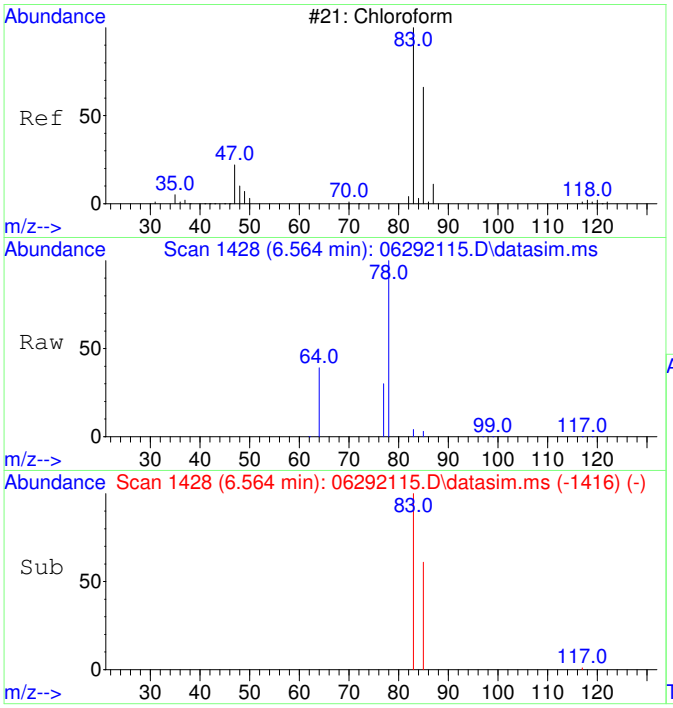


#5
cis-1,2-Dichloroethene
Concen: 571.21 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 61 Resp: 3558

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

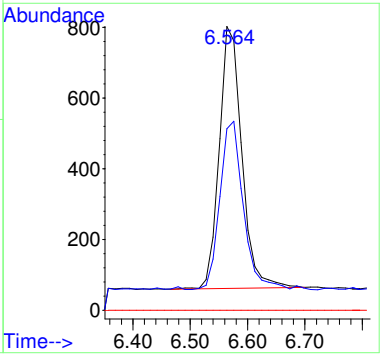


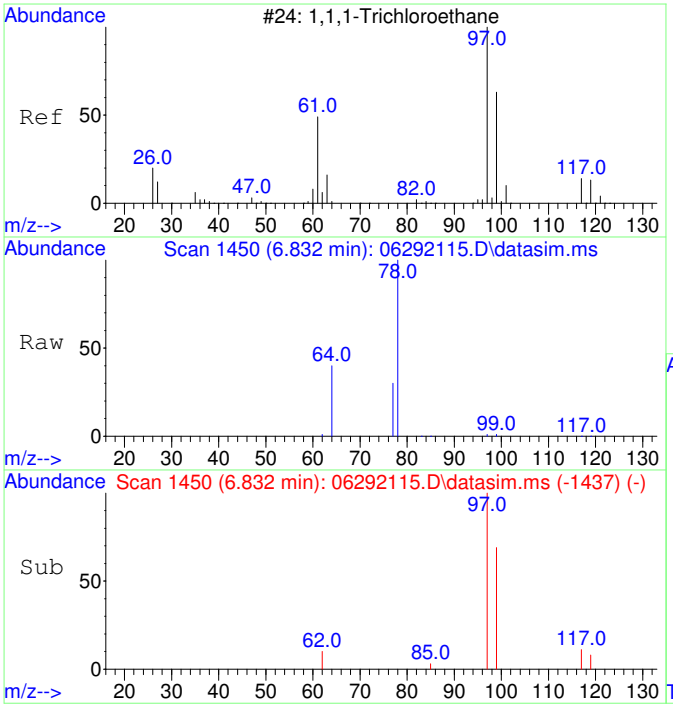


#6
Chloroform
Concen: 275.28 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 83 Resp: 2018

Ion	Ratio	Lower	Upper
83	100		
85	67.0	34.5	94.5
87	0.0	0.0	20.0

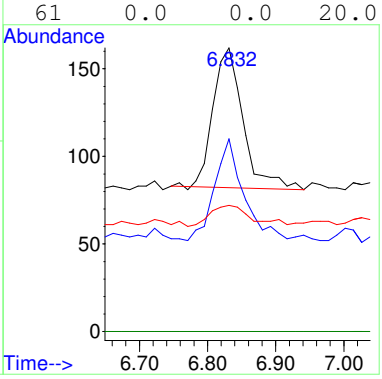


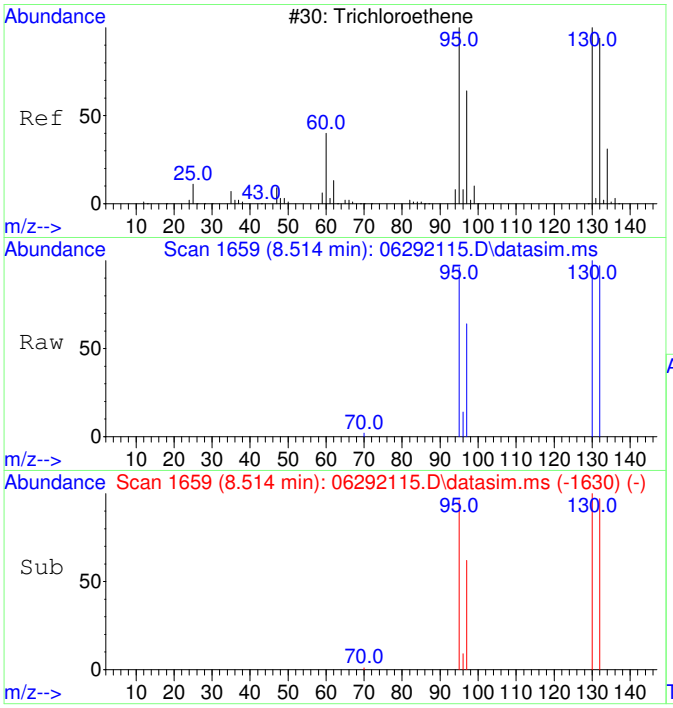


#7
1,1,1-Trichloroethane
Concen: 35.77 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 97 Resp: 244

Ion	Ratio	Lower	Upper
97	100		
99	72.1	34.4	94.4
117	21.3	0.0	42.8
61	0.0	0.0	20.0

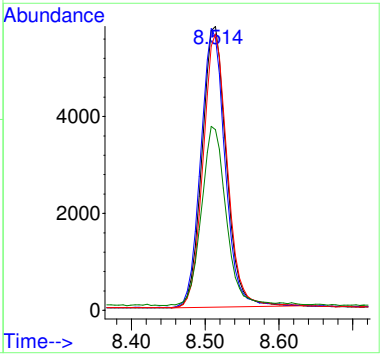


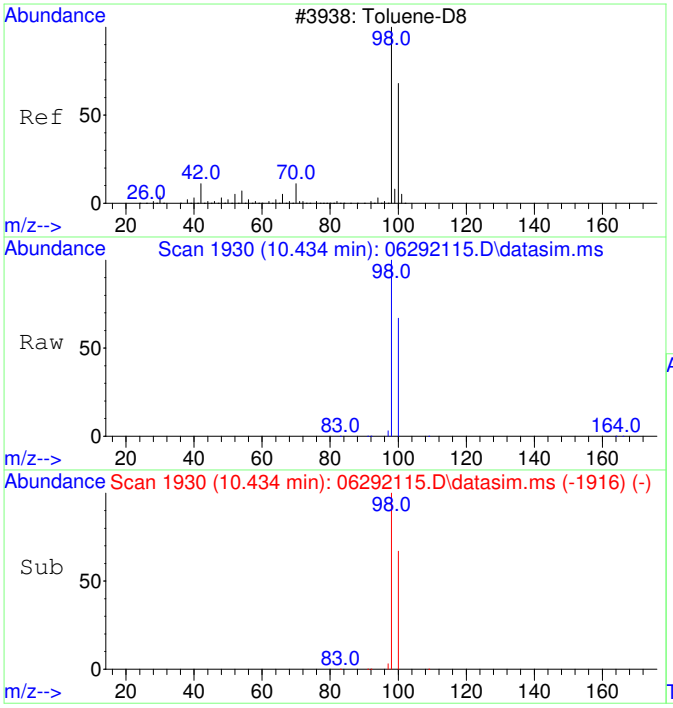


#11
Trichloroethene
Concen: 2415.44 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion:130 Resp: 13247

Ion	Ratio	Lower	Upper
130	100		
95	98.7	65.8	125.8
132	96.6	75.8	115.8
97	64.3	42.0	82.0

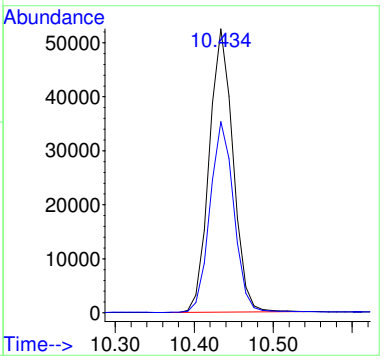


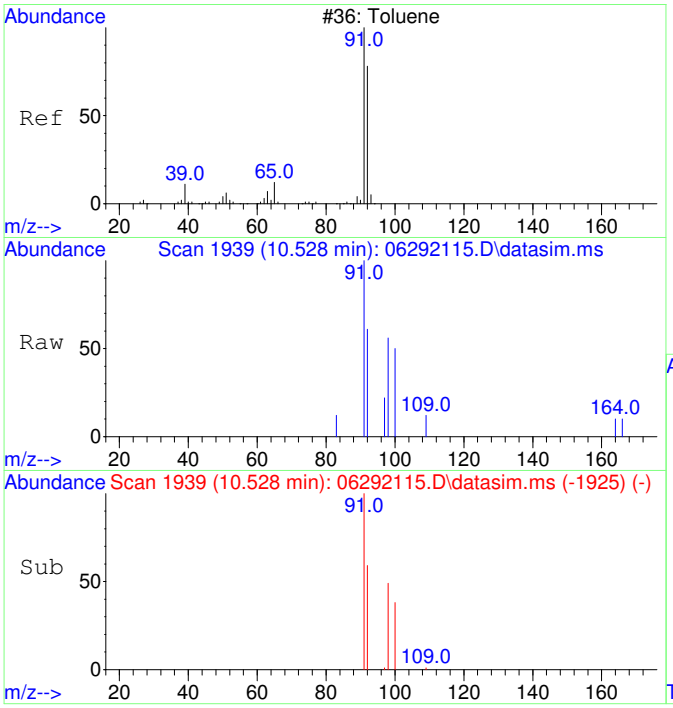


#12
Toluene-d8
Concen: 5059.83 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 98 Resp: 109594

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

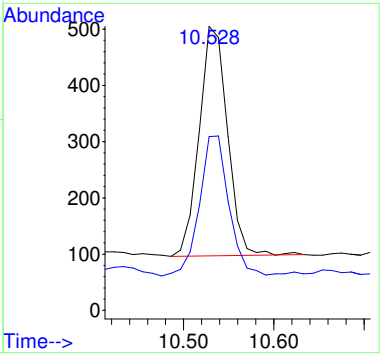


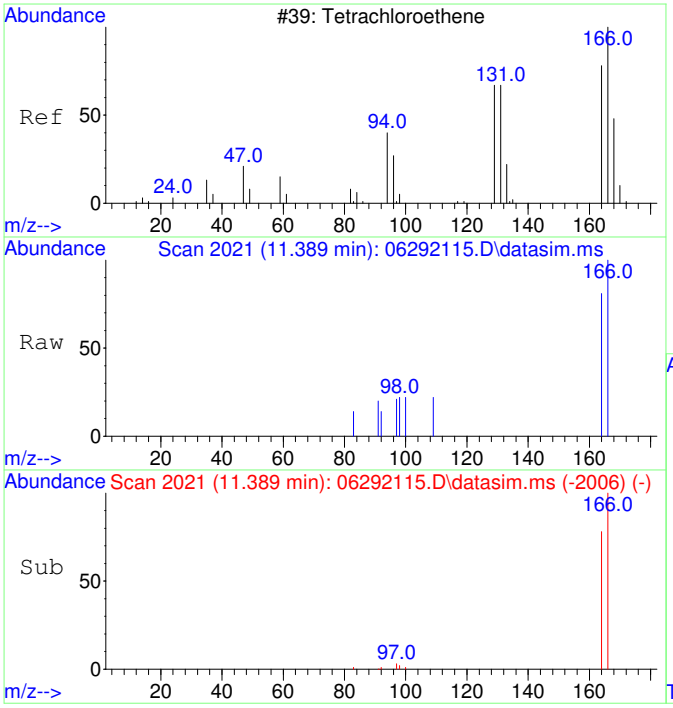


#13
Toluene
Concen: 31.53 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 91 Resp: 889

Ion	Ratio	Lower	Upper
91	100		
92	63.8	30.2	90.2

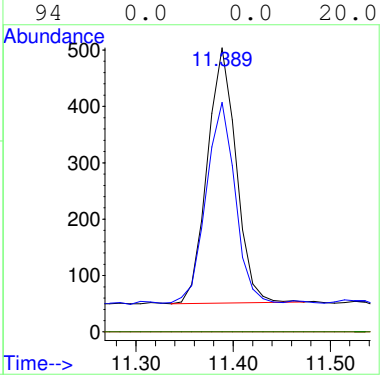


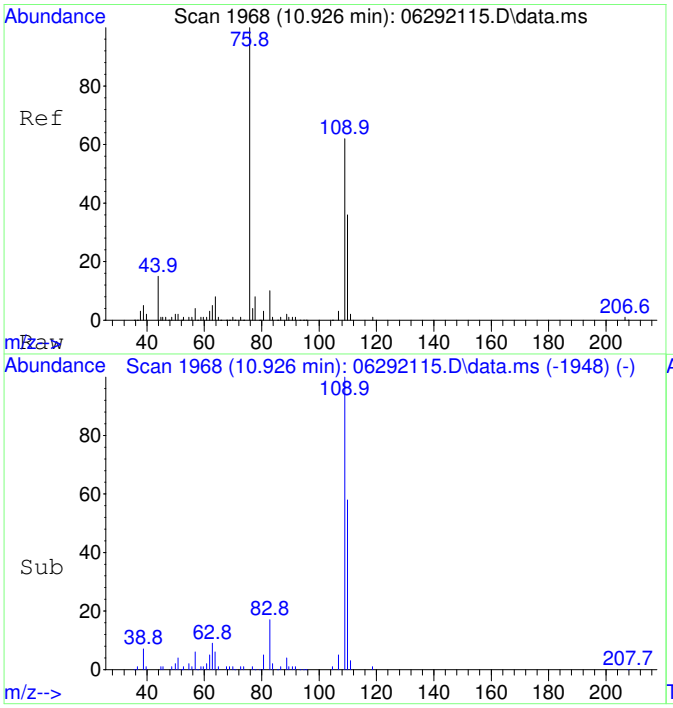


#15
Tetrachloroethene
Concen: 129.23 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion:166 Resp: 932

Ion	Ratio	Lower	Upper
166	100		
164	79.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

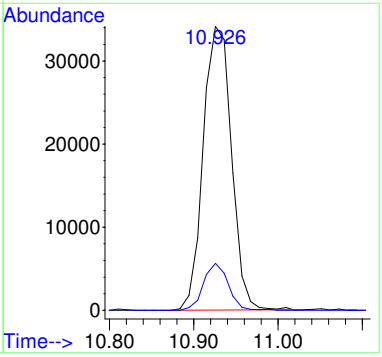


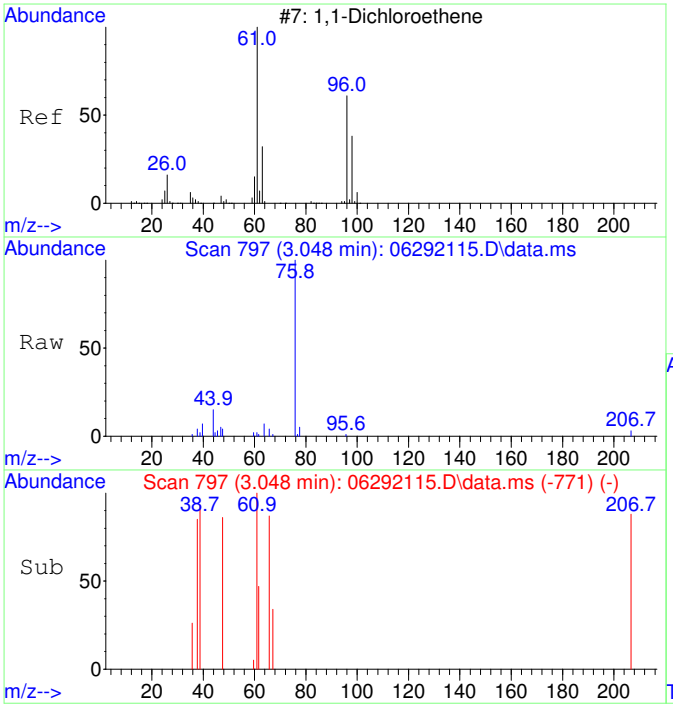


#25
2-Fluorotoluene SCAN
Concen: 5116.25 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion:109 Resp: 79629

Ion	Ratio	Lower	Upper
109	100		
83	14.6	0.0	44.5

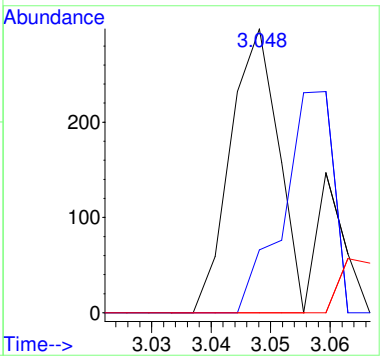


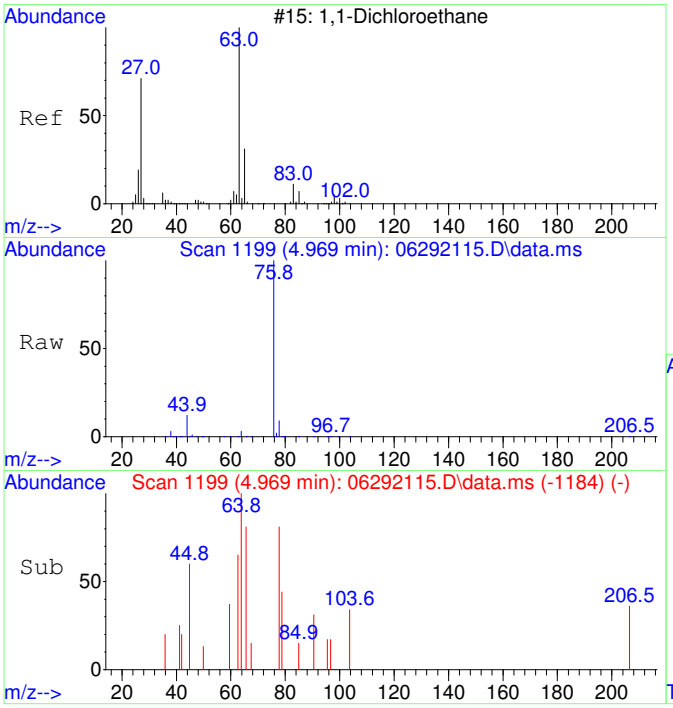


#26
1,1-Dichloroethene SCAN
Concen: 50.50 ug/L
RT: 3.048 min Scan# 797
Delta R.T. -0.004 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 61 Resp: 166

Ion	Ratio	Lower	Upper
61	100		
96	81.3	33.0	93.0
98	0.0	12.5	72.5#

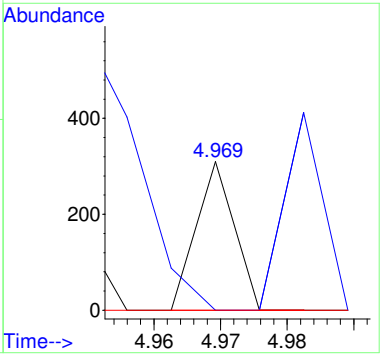


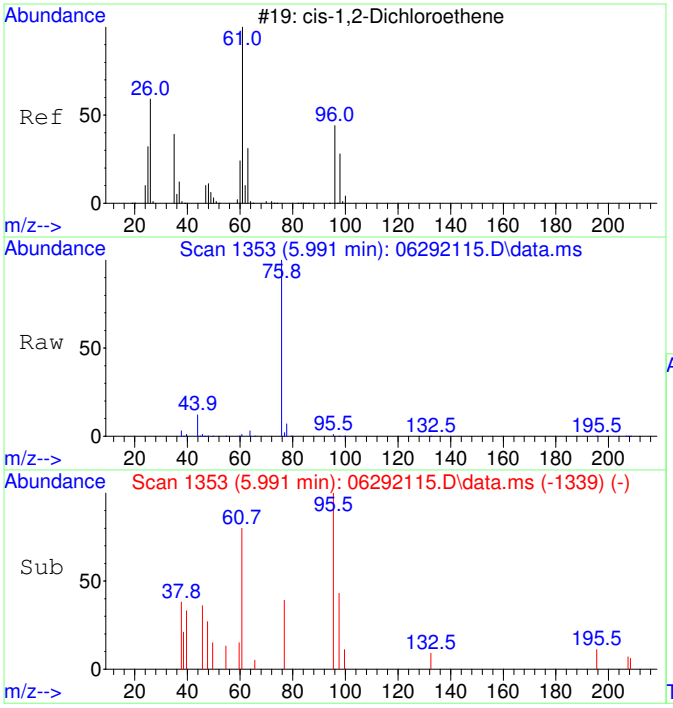


#28
1,1-Dichloroethane SCAN
Concen: 25.81 ug/L
RT: 4.969 min Scan# 1199
Delta R.T. 0.000 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 63 Resp: 123

Ion	Ratio	Lower	Upper
63	100		
65	133.3	0.0	57.3#
83	0.0	0.0	46.2

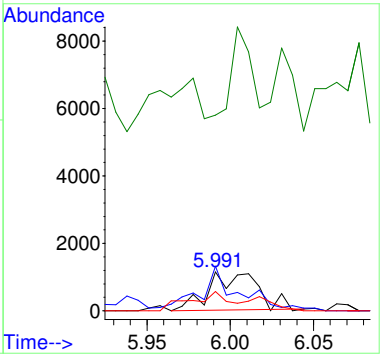


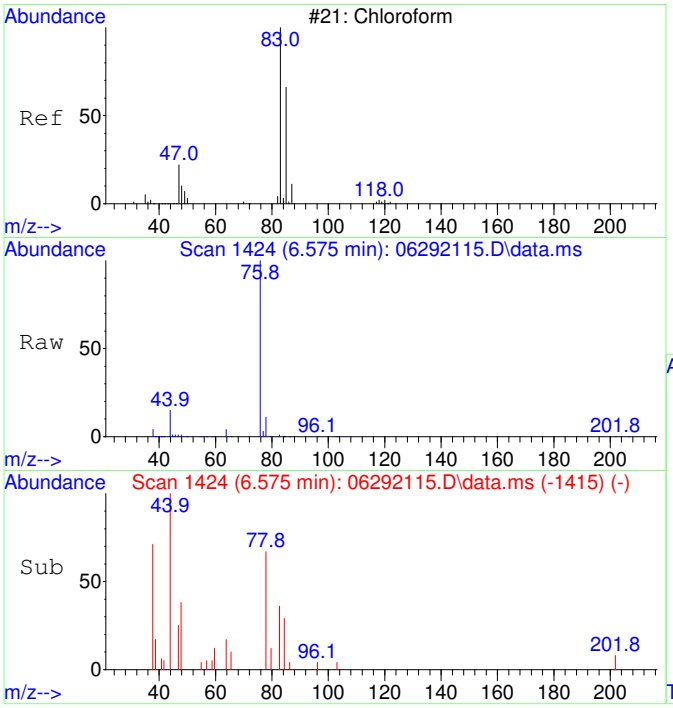


#29
cis-1,2-Dichloroethene SCAN
Concen: 474.38 ug/L
RT: 5.991 min Scan# 1353
Delta R.T. -0.006 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 61 Resp: 2281

Ion	Ratio	Lower	Upper
61	100		
96	85.3	36.9	96.9
98	25.3	12.1	72.1
64	75.4	0.0	32.6#

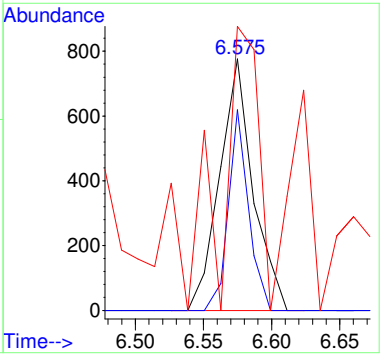


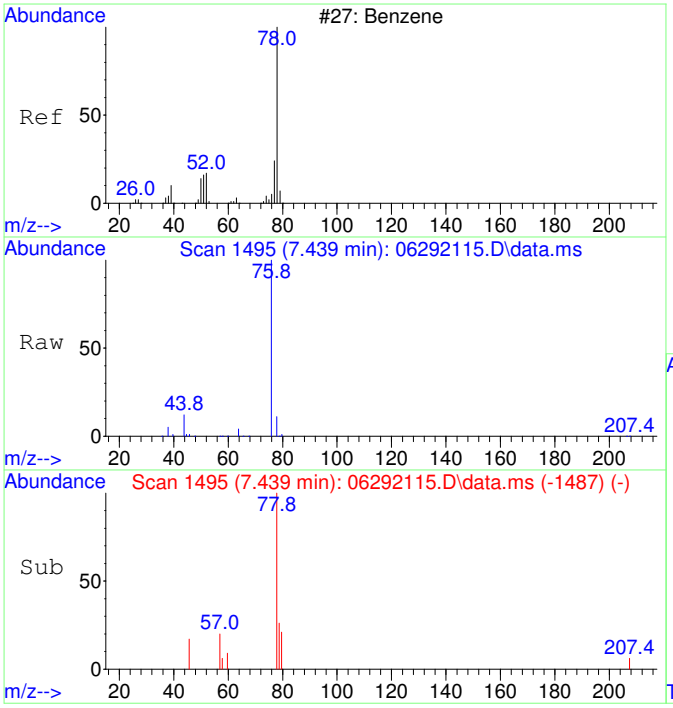


#30
Chloroform SCAN
Concen: 260.56 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 83 Resp: 1325

Ion	Ratio	Lower	Upper
83	100		
85	48.0	27.1	87.1
47	123.2	7.5	67.5#

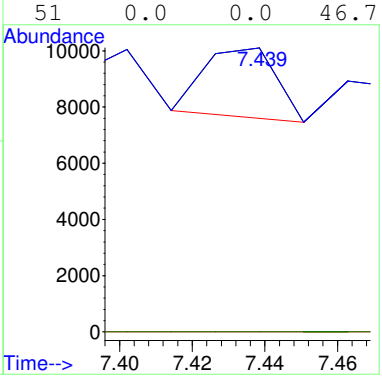


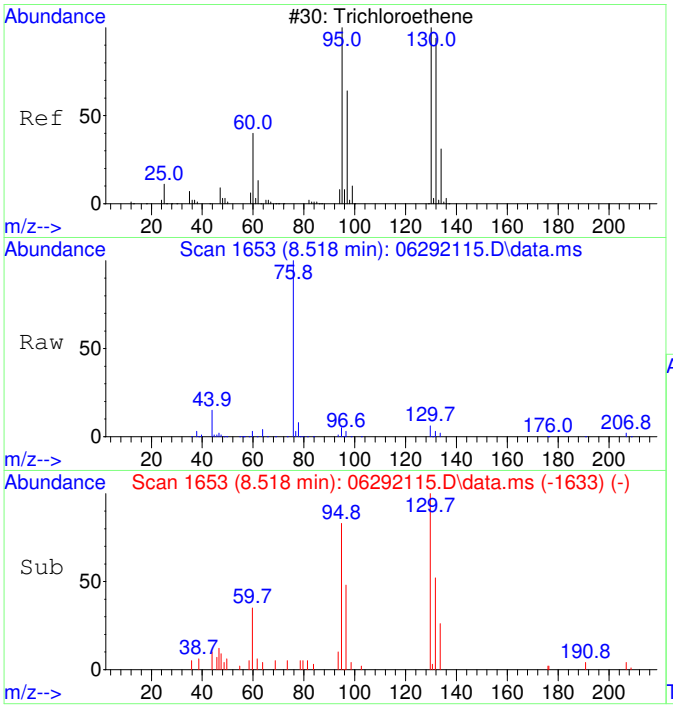


#33
Benzene SCAN
Concen: 272.94 ug/L
RT: 7.439 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 78 Resp: 3256

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

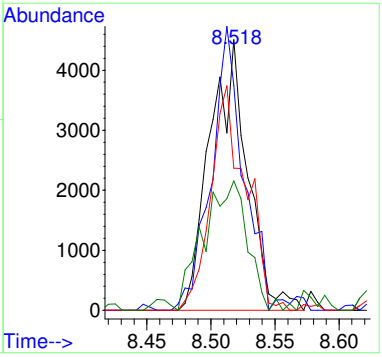


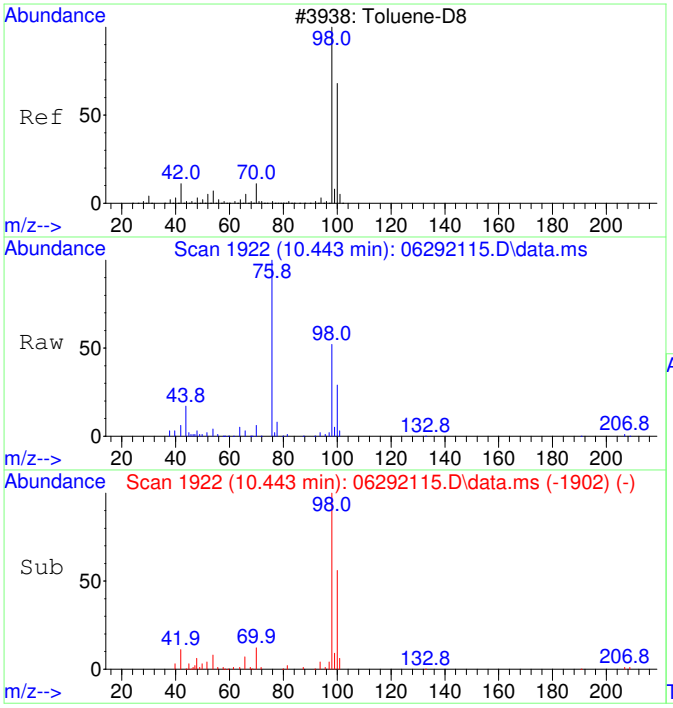


#35
Trichloroethene SCAN
Concen: 3058.21 ug/L
RT: 8.518 min Scan# 1653
Delta R.T. 0.011 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion:130 Resp: 9299

Ion	Ratio	Lower	Upper
130	100		
95	84.4	60.0	120.0
132	76.4	54.3	114.3
97	55.4	24.6	84.6

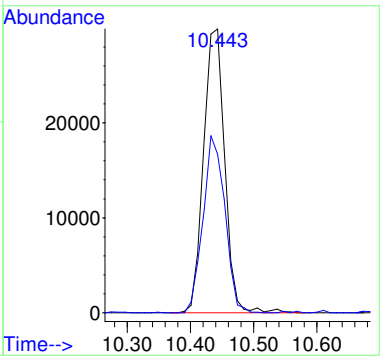


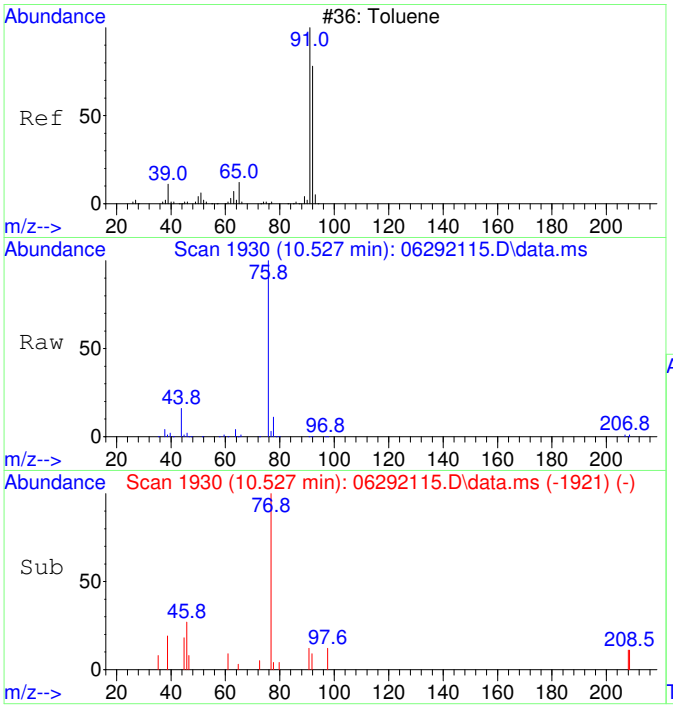


#36
Toluene-d8 SCAN
Concen: 5176.80 ug/L
RT: 10.443 min Scan# 1922
Delta R.T. 0.011 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 98 Resp: 69882

Ion	Ratio	Lower	Upper
98	100		
100	64.0	36.1	96.1

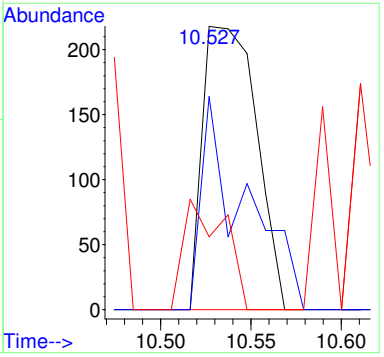


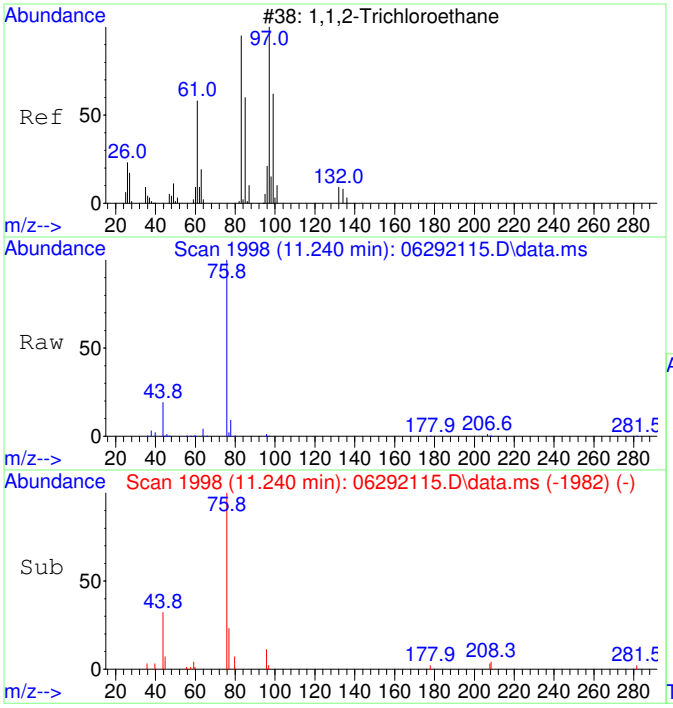


#37
Toluene SCAN
Concen: 25.93 ug/L
RT: 10.527 min Scan# 1930
Delta R.T. -0.010 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 91 Resp: 453

Ion	Ratio	Lower	Upper
91	100		
92	60.9	26.5	86.5
65	29.8	0.0	40.6

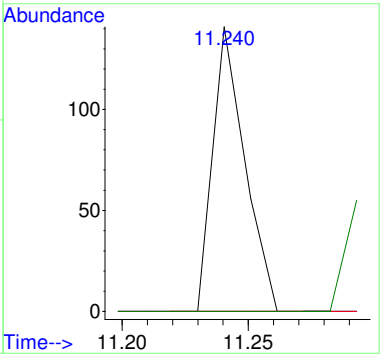


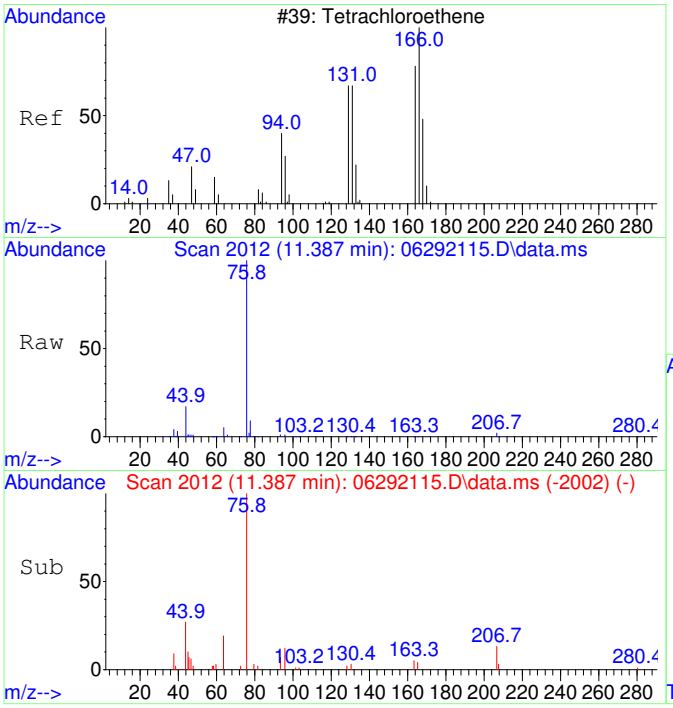


#38
1,1,2-Trichloroethane SCAN
Concen: 29.79 ug/L
RT: 11.240 min Scan# 1998
Delta R.T. 0.063 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion: 97 Resp: 124

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

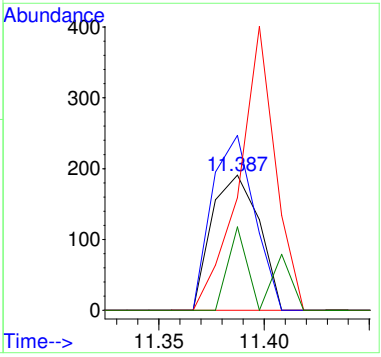




#39
Tetrachloroethene SCAN
Concen: 71.07 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292115.D
Acq: 29 Jun 2021 14:36

Tgt Ion:166 Resp: 299

Ion	Ratio	Lower	Upper
166	100		
164	116.1	53.9	113.9#
131	159.5	45.6	105.6#
129	41.5	51.3	111.3#



2106037-28

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292116.D
Acq On : 29 Jun 2021 15:02
InstName : AG5975C
Operator : TD
Sample : 2106037-28
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 30 06:06:43 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

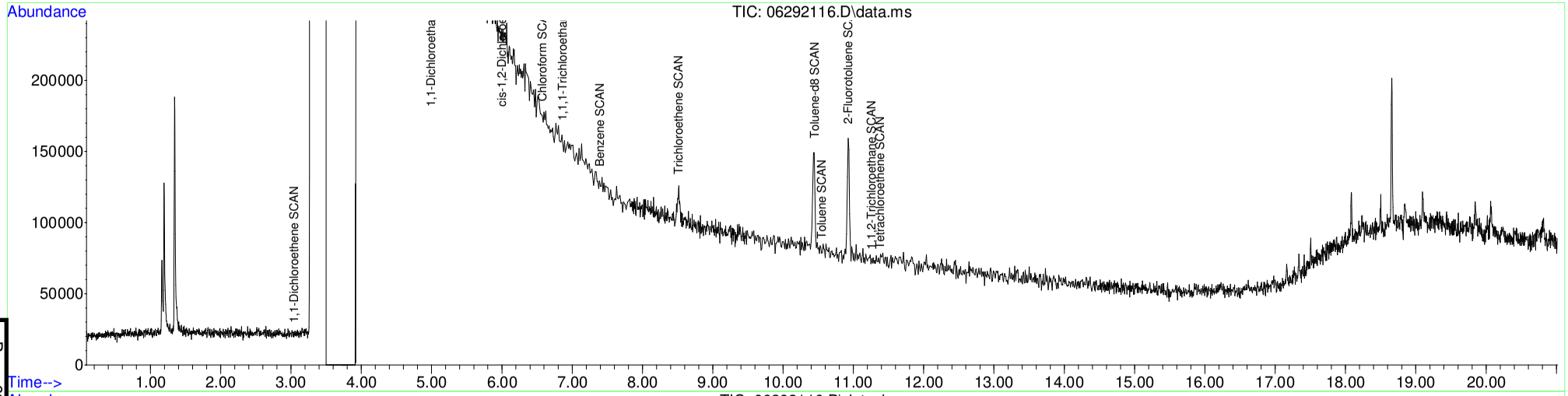
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	121071	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.433	98	104079	5018.65	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.37%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.057	61	390	73.96	ug/L #	80
3] trans-1,2-Dichloroethene	4.214	61	208	45.83	ug/L #	94
4] 1,1-Dichloroethane	4.964	63	381	61.21	ug/L #	25
5] cis-1,2-Dichloroethene	5.992	61	3579	600.10	ug/L #	99
6] Chloroform	6.564	83	2036	290.07	ug/L #	97
7] 1,1,1-Trichloroethane	6.831	97	229	35.06	ug/L #	93
11] Trichloroethene	8.514	130	13200	2513.78	ug/L	98
13] Toluene	10.528	91	884	32.75	ug/L	98
15] Tetrachloroethene	11.388	166	936	135.55	ug/L #	95
25) 2-Fluorotoluene SCAN	10.925	109	68407	4590.46	ug/L	96
26) 1,1-Dichloroethene SCAN	3.040	61	79	25.10	ug/L #	1
28) 1,1-Dichloroethane SCAN	4.989	63	163	35.72	ug/L #	1
29) cis-1,2-Dichloroethene...	5.997	61	1460	317.12	ug/L #	40
30) Chloroform SCAN	6.575	83	1402	287.95	ug/L #	61
31) 1,1,1-Trichloroethane ...	6.854	97	214	47.04	ug/L #	28
33) Benzene SCAN	7.390	78	919	80.46	ug/L #	90
35) Trichloroethene SCAN	8.512	130	8328	2860.53	ug/L	84
36) Toluene-d8 SCAN	10.443	98	63435	4907.95	ug/L	100
37) Toluene SCAN	10.547	91	851	50.87	ug/L #	53
38) 1,1,2-Trichloroethane ...	11.251	97	137	34.38	ug/L #	29
39) Tetrachloroethene SCAN	11.377	166	277	68.76	ug/L #	15

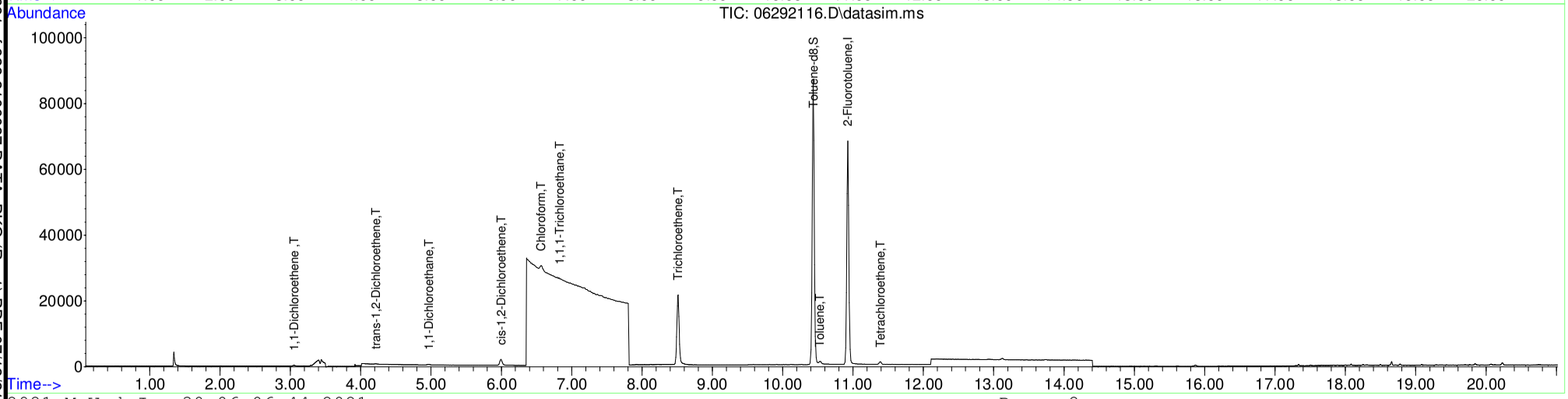
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292116.D
Acq On : 29 Jun 2021 15:02
InstName : AG5975C
Operator : TD
Sample : 2106037-28
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 30 06:06:43 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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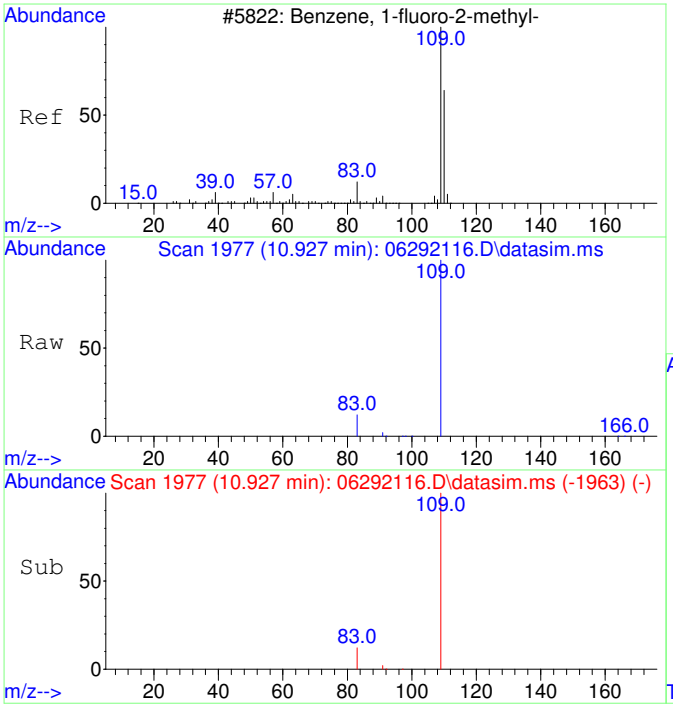
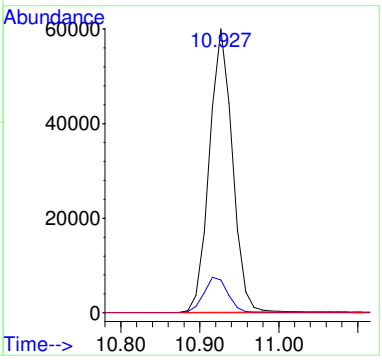
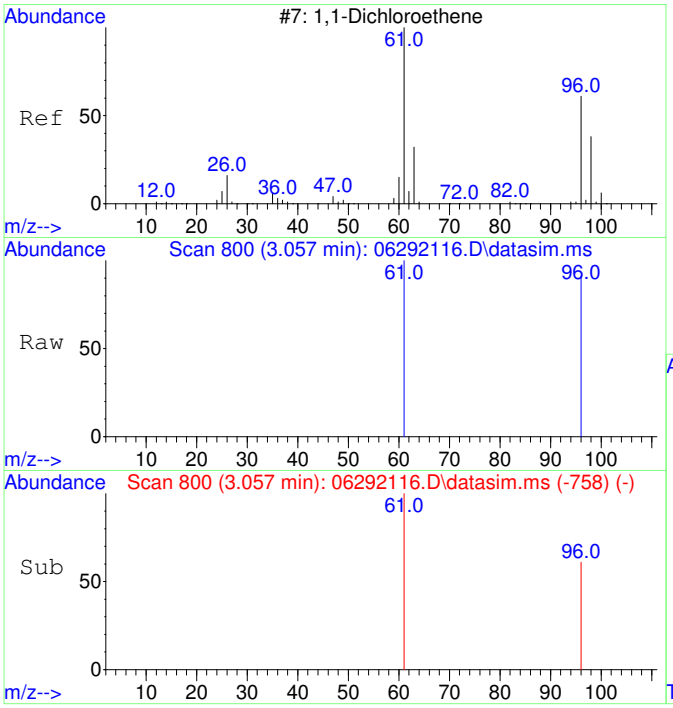


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion:109 Resp: 121071

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

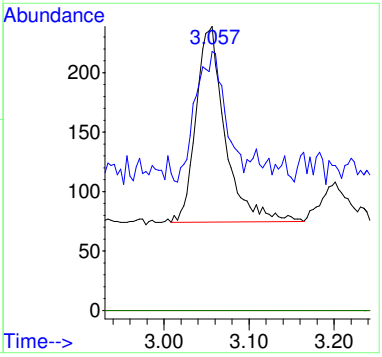


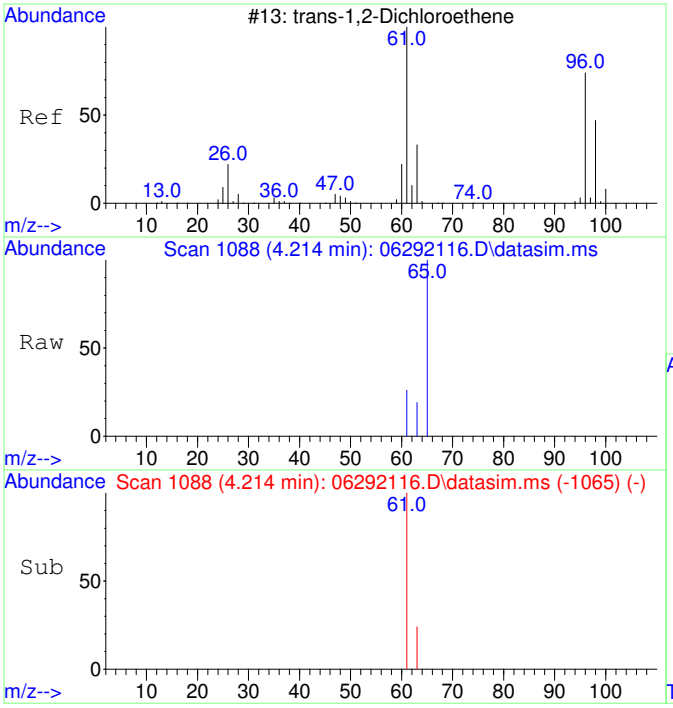


#2
1,1-Dichloroethene
Concen: 73.96 ug/L
RT: 3.057 min Scan# 800
Delta R.T. 0.007 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 61 Resp: 390

Ion	Ratio	Lower	Upper
61	100		
96	81.0	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

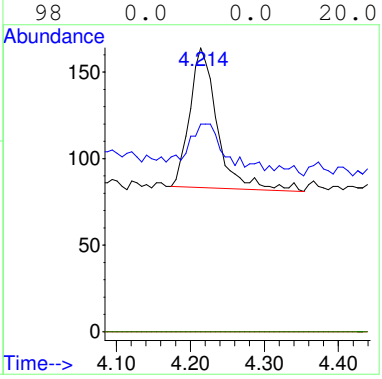


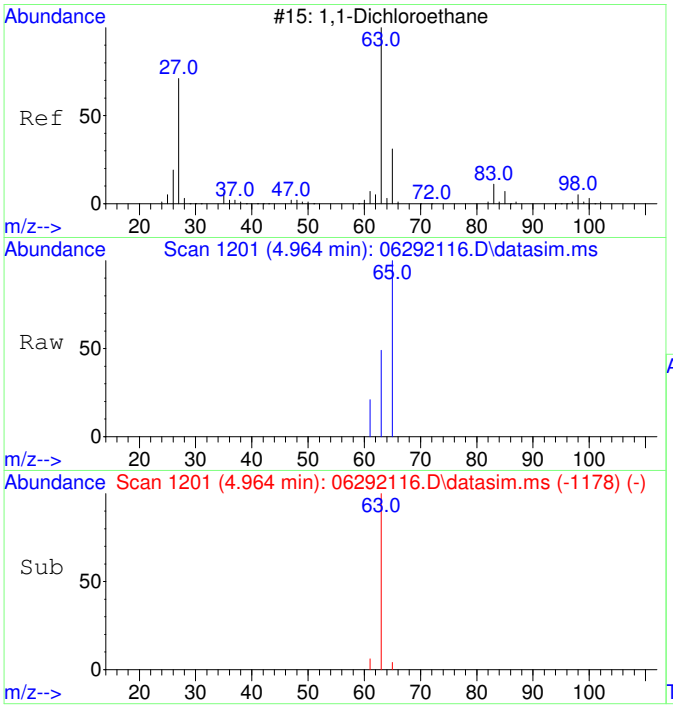


#3
trans-1,2-Dichloroethene
Concen: 45.83 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. -0.000 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 61 Resp: 208

Ion	Ratio	Lower	Upper
61	100		
63	29.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

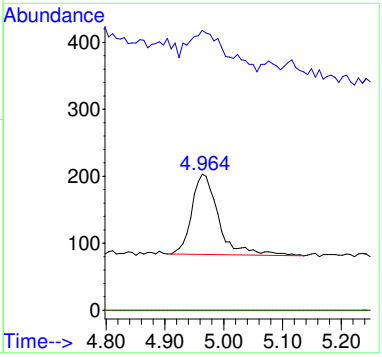


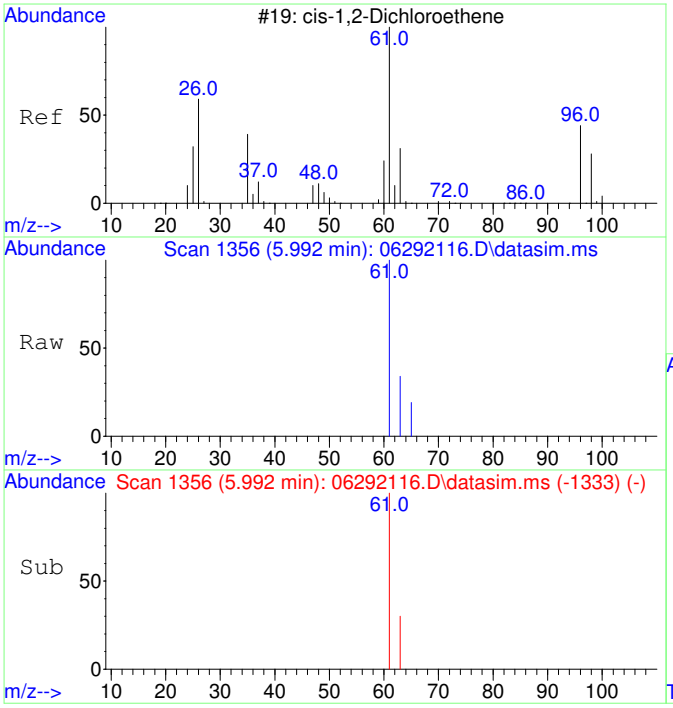


#4
1,1-Dichloroethane
Concen: 61.21 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. -0.000 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 63 Resp: 381

Ion	Ratio	Lower	Upper
63	100		
65	72.4	1.3	61.3#
83	0.0	0.0	20.0
98	0.0	0.0	20.0

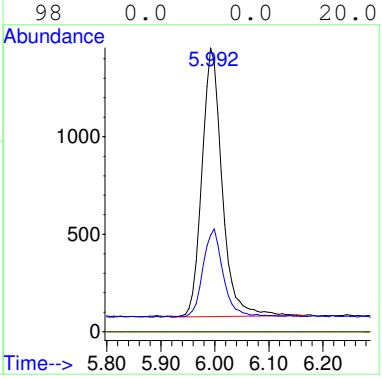


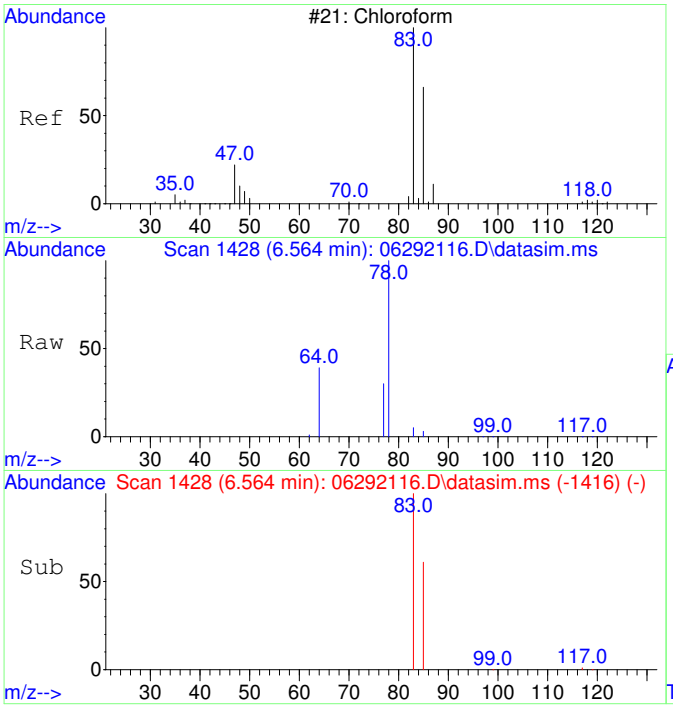


#5
cis-1,2-Dichloroethene
Concen: 600.10 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. -0.000 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 61 Resp: 3579

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

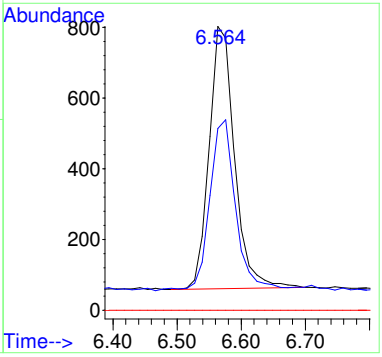


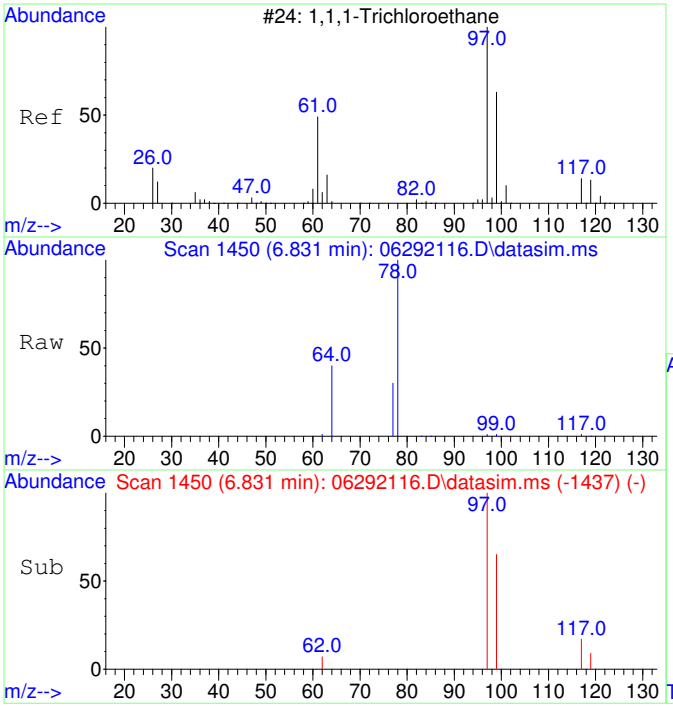


#6
Chloroform
Concen: 290.07 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. -0.000 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 83 Resp: 2036

Ion	Ratio	Lower	Upper
83	100		
85	66.6	34.5	94.5
87	0.0	0.0	20.0

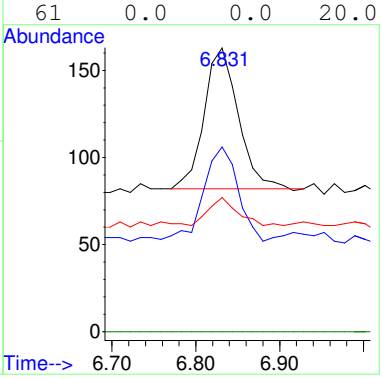


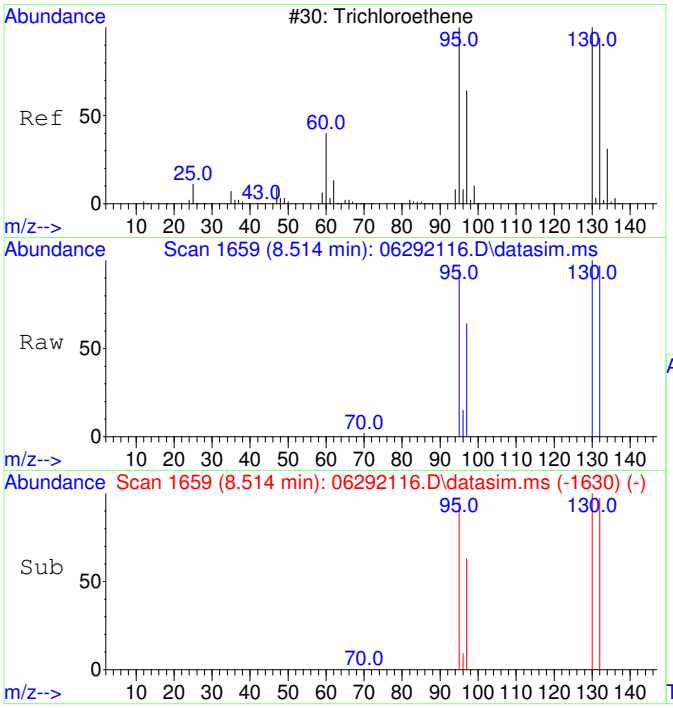


#7
1,1,1-Trichloroethane
Concen: 35.06 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 97 Resp: 229

Ion	Ratio	Lower	Upper
97	100		
99	69.0	34.4	94.4
117	18.3	0.0	42.8
61	0.0	0.0	20.0

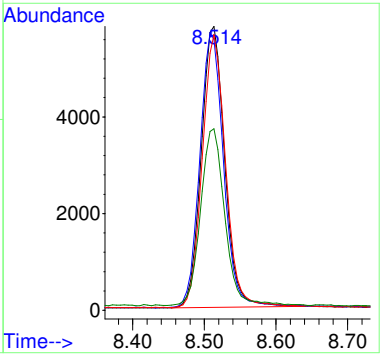


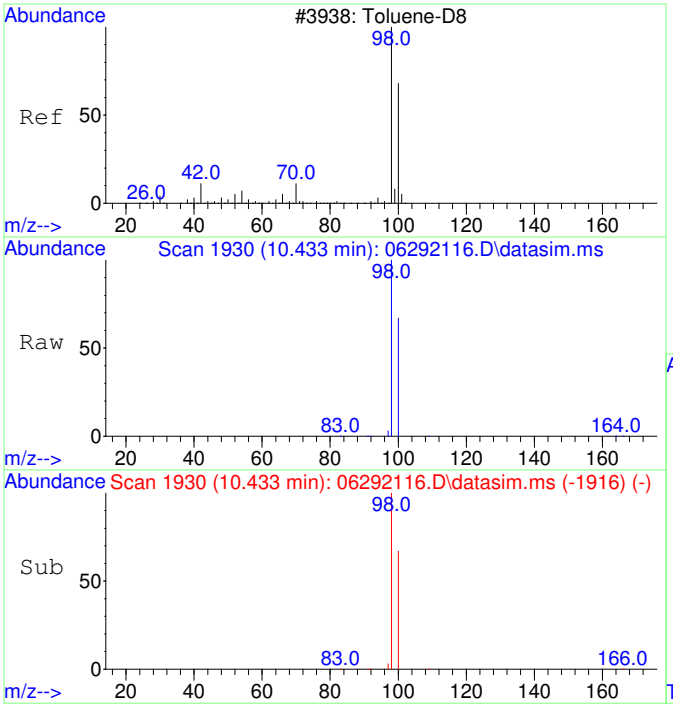


#11
Trichloroethene
Concen: 2513.78 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion:130 Resp: 13200

Ion	Ratio	Lower	Upper
130	100		
95	98.0	65.8	125.8
132	95.4	75.8	115.8
97	64.3	42.0	82.0

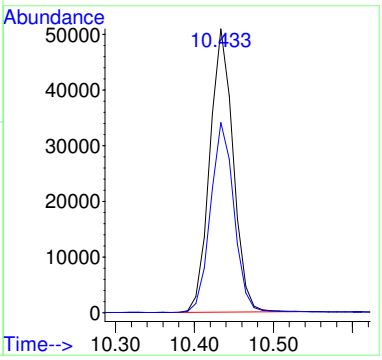


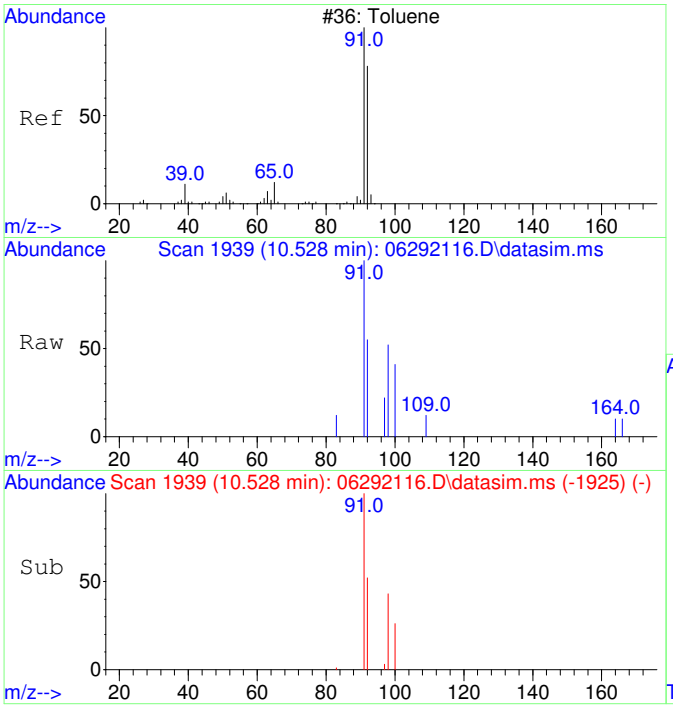


#12
Toluene-d8
Concen: 5018.65 ug/L
RT: 10.433 min Scan# 1930
Delta R.T. -0.000 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 98 Resp: 104079

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.3	97.3

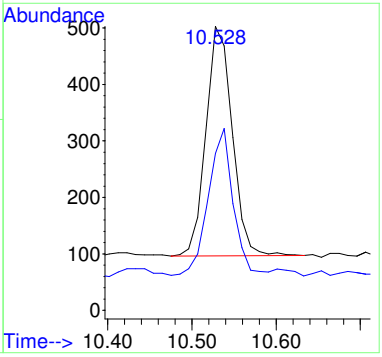


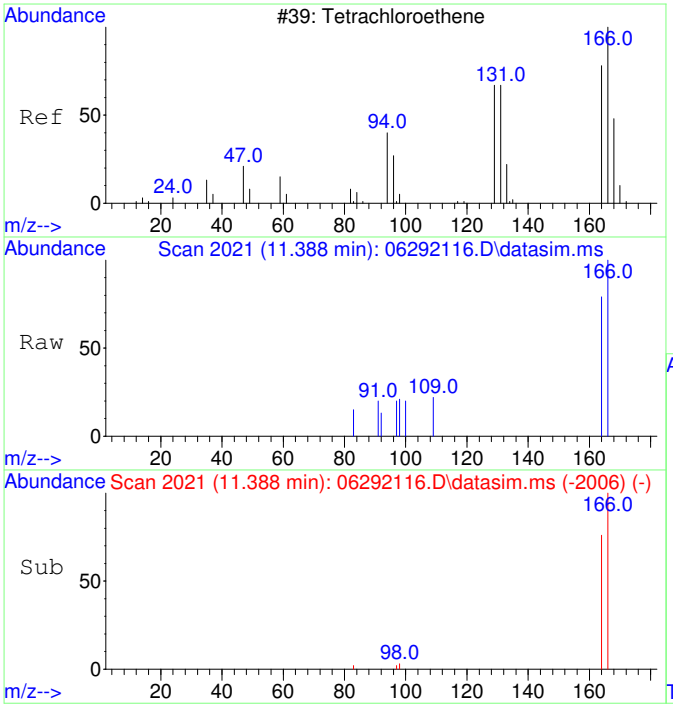


#13
Toluene
Concen: 32.75 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. -0.000 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 91 Resp: 884

Ion	Ratio	Lower	Upper
91	100		
92	61.4	30.2	90.2

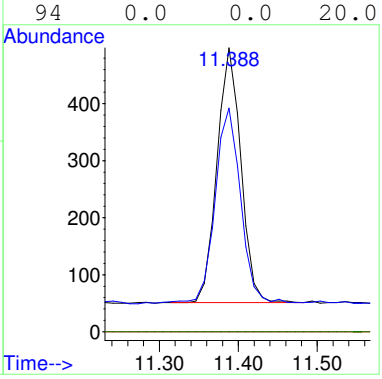


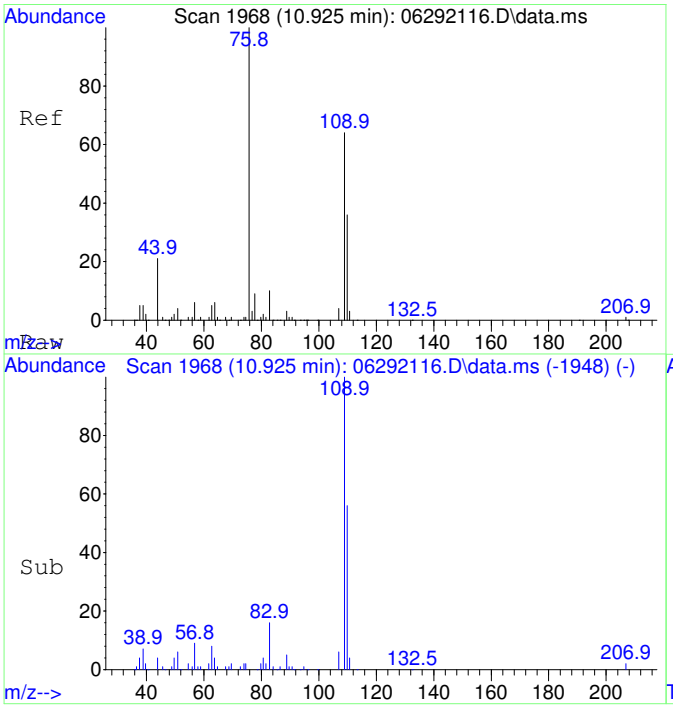


#15
Tetrachloroethene
Concen: 135.55 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.010 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion:166 Resp: 936

Ion	Ratio	Lower	Upper
166	100		
164	82.1	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

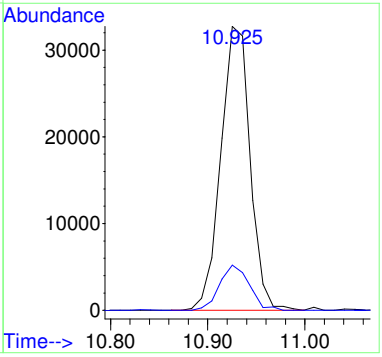


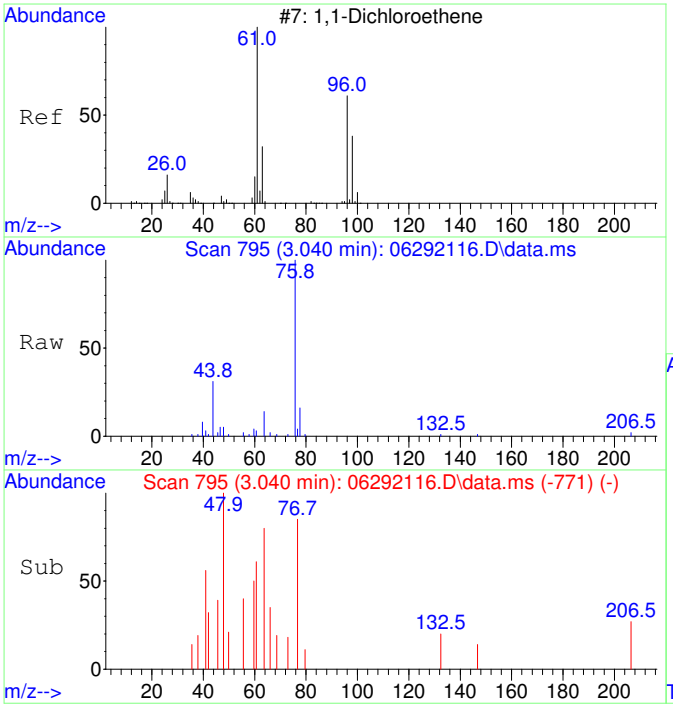


#25
2-Fluorotoluene SCAN
Concen: 4590.46 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.010 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion:109 Resp: 68407

Ion	Ratio	Lower	Upper
109	100		
83	16.1	0.0	44.5

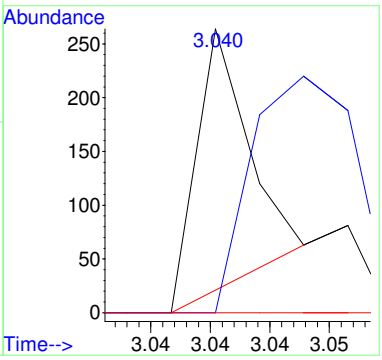


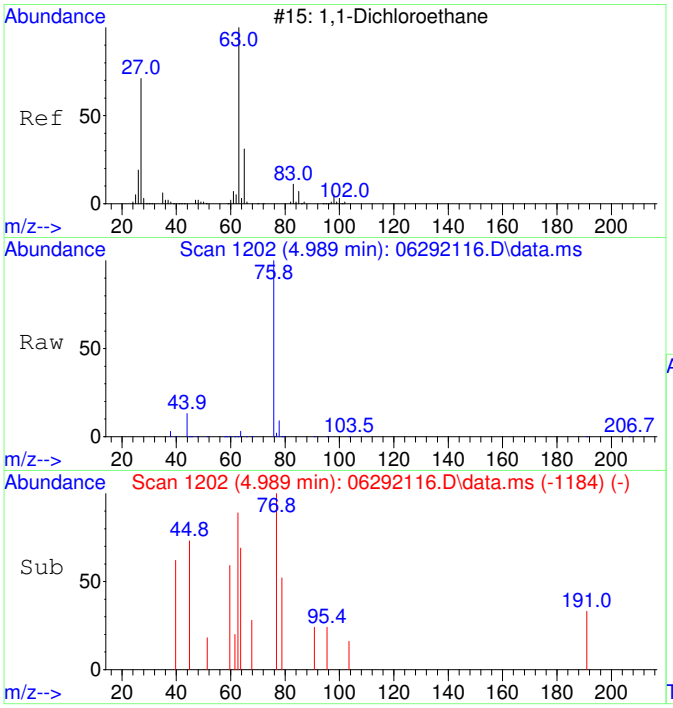


#26
1,1-Dichloroethene SCAN
Concen: 25.10 ug/L
RT: 3.040 min Scan# 795
Delta R.T. -0.011 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 61 Resp: 79

Ion	Ratio	Lower	Upper
61	100		
96	167.1	33.0	93.0#
98	0.0	12.5	72.5#

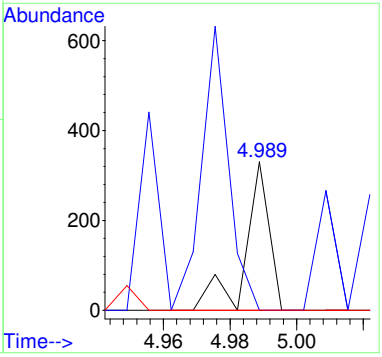


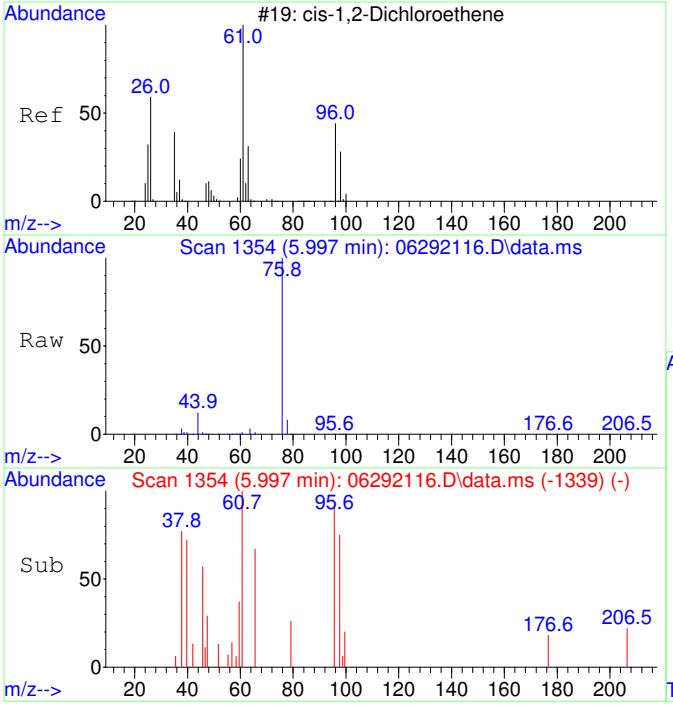


#28
1,1-Dichloroethane SCAN
Concen: 35.72 ug/L
RT: 4.989 min Scan# 1202
Delta R.T. 0.020 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 63 Resp: 163

Ion	Ratio	Lower	Upper
63	100		
65	217.2	0.0	57.3#
83	0.0	0.0	46.2

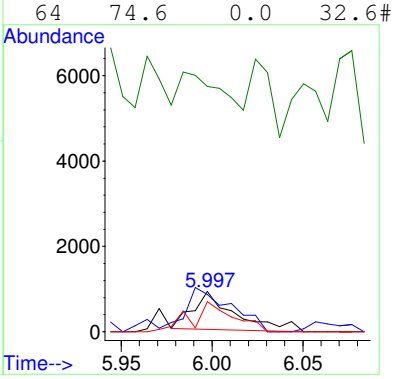


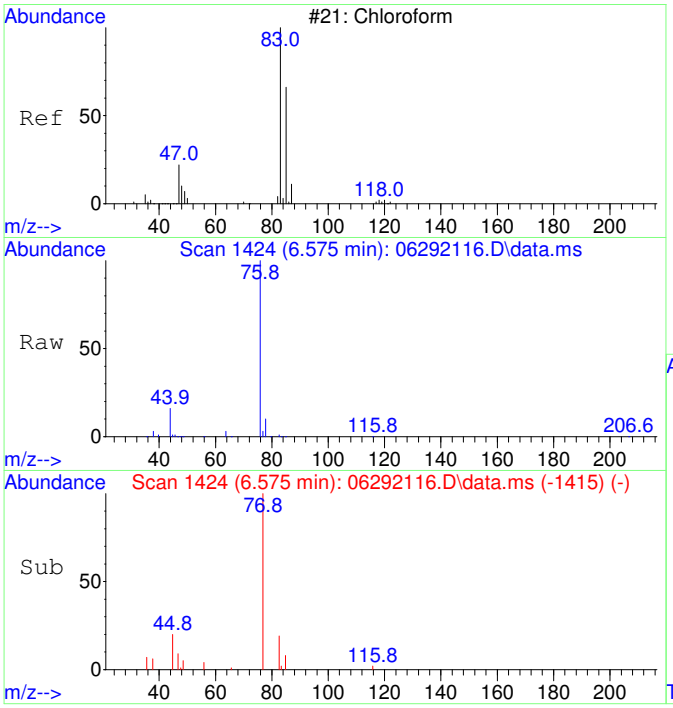


#29
cis-1,2-Dichloroethene SCAN
Concen: 317.12 ug/L
RT: 5.997 min Scan# 1354
Delta R.T. -0.000 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 61 Resp: 1460

Ion	Ratio	Lower	Upper
61	100		
96	112.5	36.9	96.9#
98	77.7	12.1	72.1#
64	74.6	0.0	32.6#

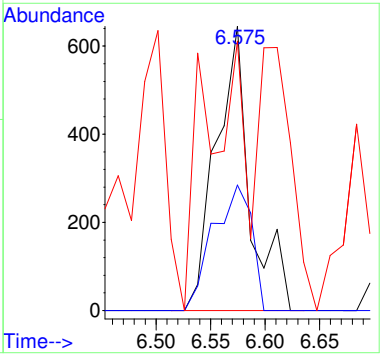


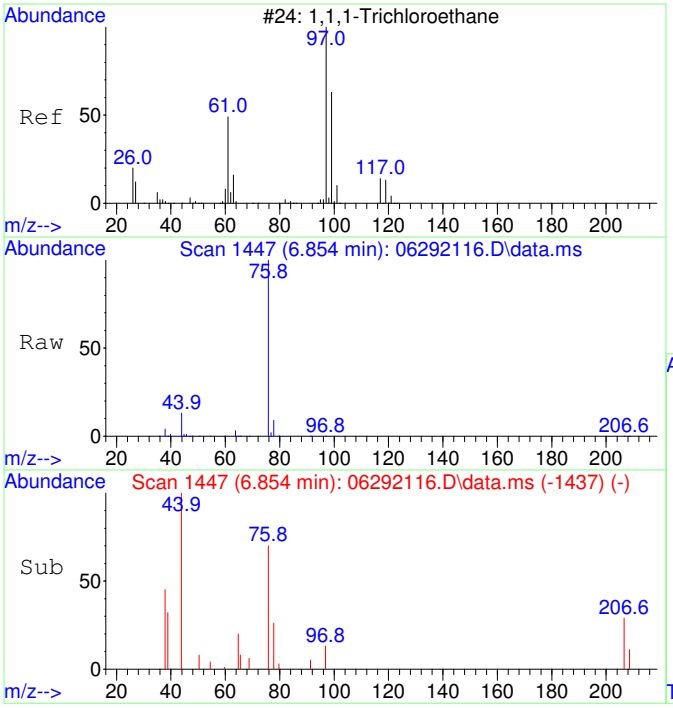


#30
Chloroform SCAN
Concen: 287.95 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 83 Resp: 1402

Ion	Ratio	Lower	Upper
83	100		
85	49.8	27.1	87.1
47	86.8	7.5	67.5#

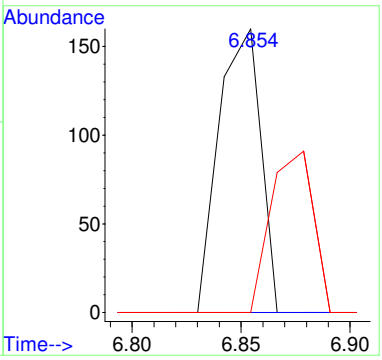


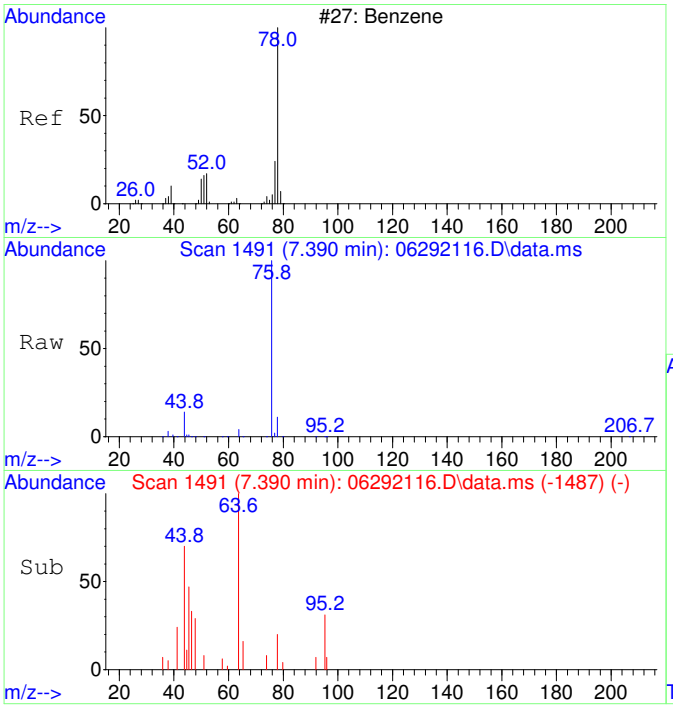


#31
1,1,1-Trichloroethane SCAN
Concen: 47.04 ug/L
RT: 6.854 min Scan# 1447
Delta R.T. 0.024 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 97 Resp: 214

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

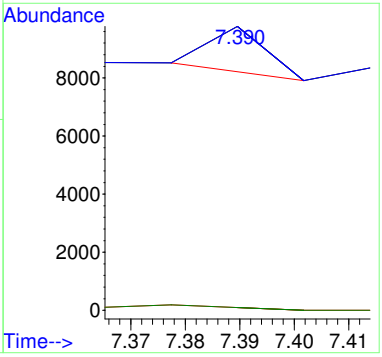


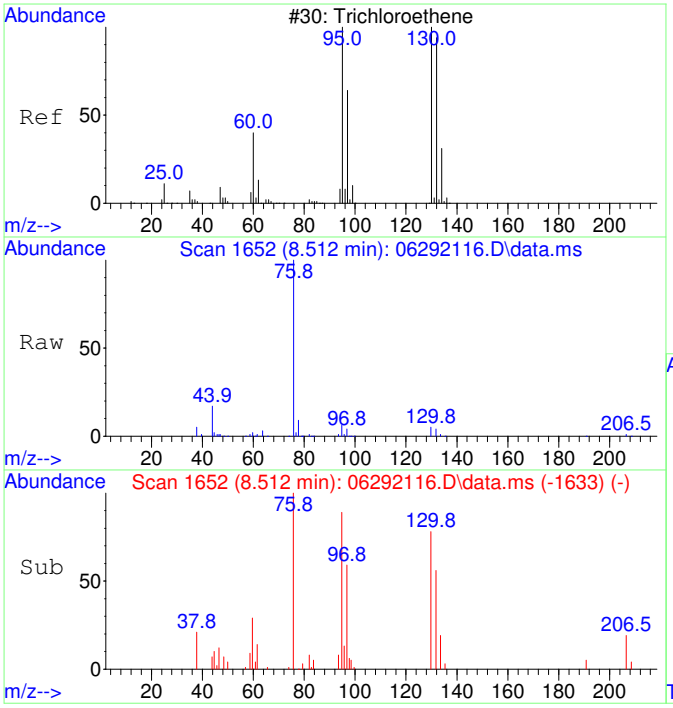


#33
Benzene SCAN
Concen: 80.46 ug/L
RT: 7.390 min Scan# 1491
Delta R.T. -0.049 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 78 Resp: 919

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

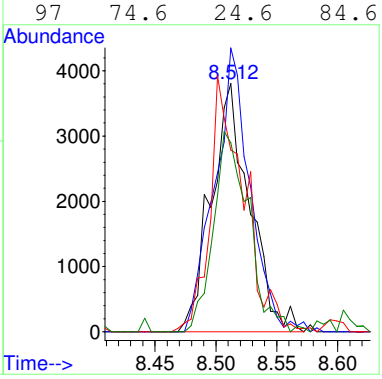


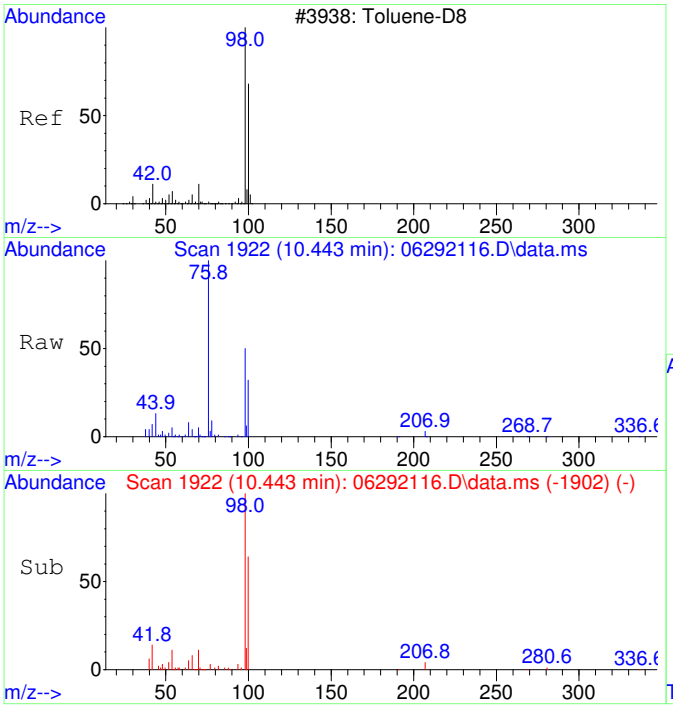


#35
Trichloroethene SCAN
Concen: 2860.53 ug/L
RT: 8.512 min Scan# 1652
Delta R.T. 0.005 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion:130 Resp: 8328

Ion	Ratio	Lower	Upper
130	100		
95	106.1	60.0	120.0
132	91.2	54.3	114.3
97	74.6	24.6	84.6

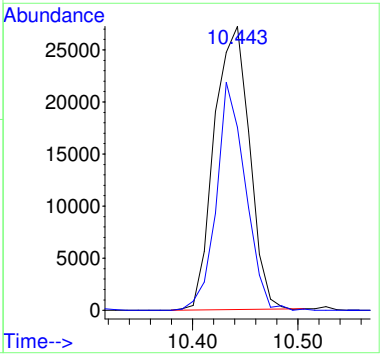


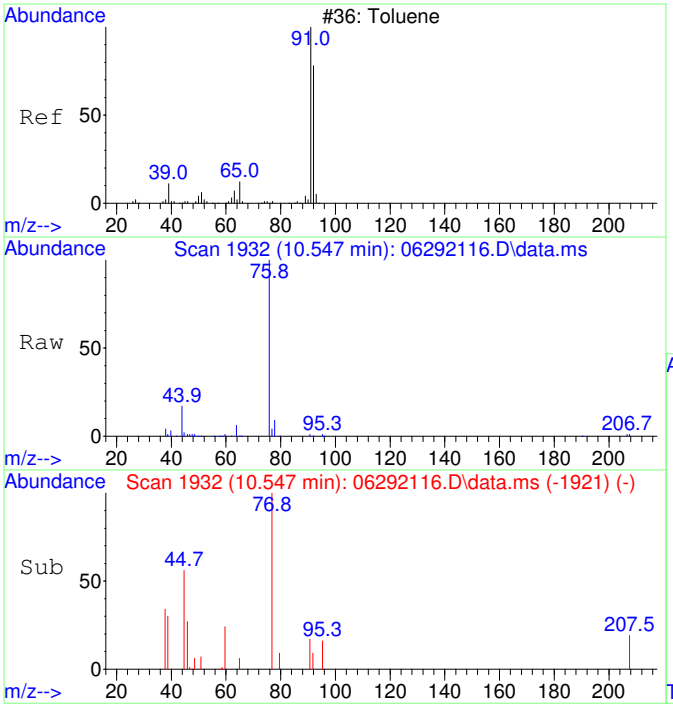


#36
Toluene-d8 SCAN
Concen: 4907.95 ug/L
RT: 10.443 min Scan# 1922
Delta R.T. 0.010 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 98 Resp: 63435

Ion	Ratio	Lower	Upper
98	100		
100	66.1	36.1	96.1

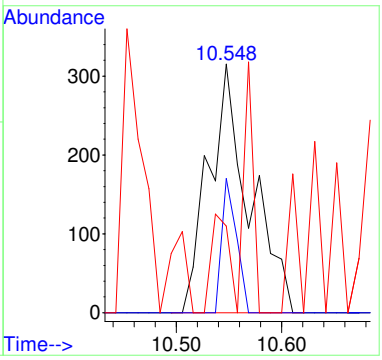


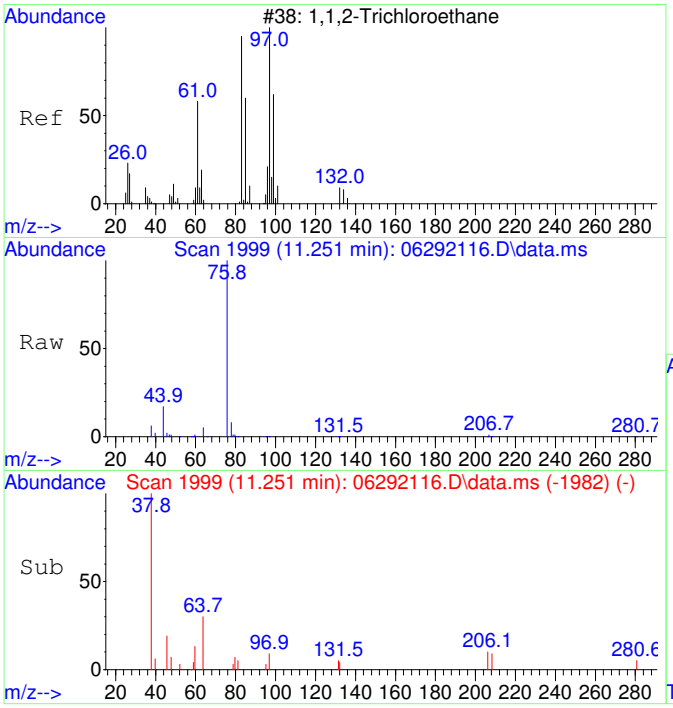


#37
Toluene SCAN
Concen: 50.87 ug/L
RT: 10.547 min Scan# 1932
Delta R.T. 0.010 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 91 Resp: 851

Ion	Ratio	Lower	Upper
91	100		
92	19.4	26.5	86.5#
65	0.0	0.0	40.6

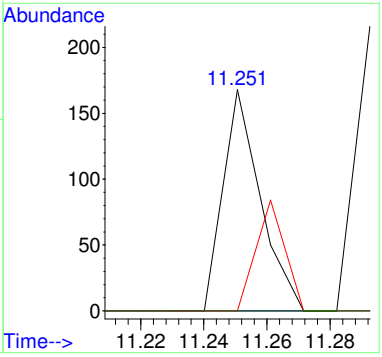


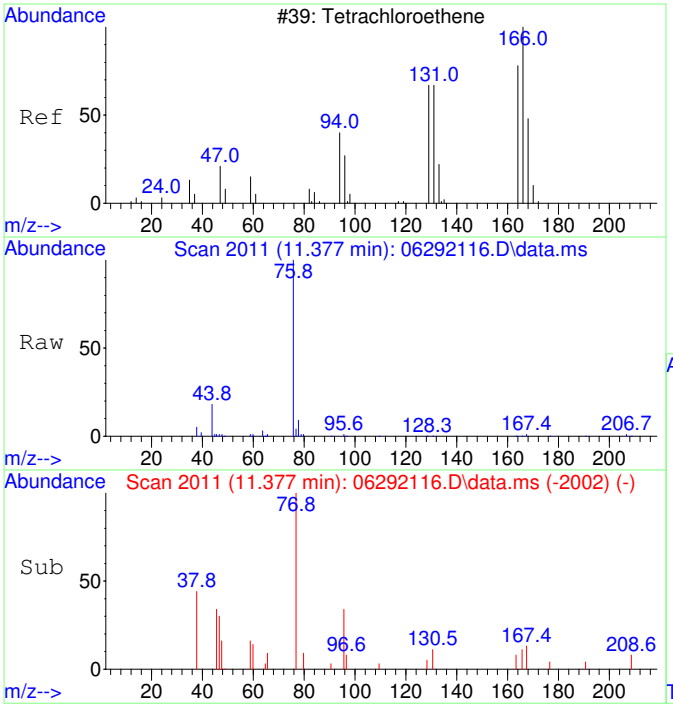


#38
1,1,2-Trichloroethane SCAN
Concen: 34.38 ug/L
RT: 11.251 min Scan# 1999
Delta R.T. 0.073 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion: 97 Resp: 137

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	38.7	30.8	90.8
99	0.0	37.5	97.5#

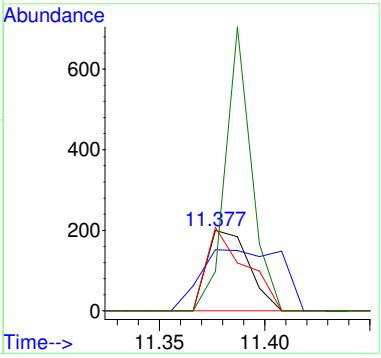




#39
Tetrachloroethene SCAN
Concen: 68.76 ug/L
RT: 11.377 min Scan# 2011
Delta R.T. -0.011 min
Lab File: 06292116.D
Acq: 29 Jun 2021 15:02

Tgt Ion:166 Resp: 277

Ion	Ratio	Lower	Upper
166	100		
164	146.9	53.9	113.9#
131	96.8	45.6	105.6
129	220.2	51.3	111.3#



2106037-29

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292117.D
Acq On : 29 Jun 2021 15:29
InstName : AG5975C
Operator : TD
Sample : 2106037-29
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 30 06:06:49 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

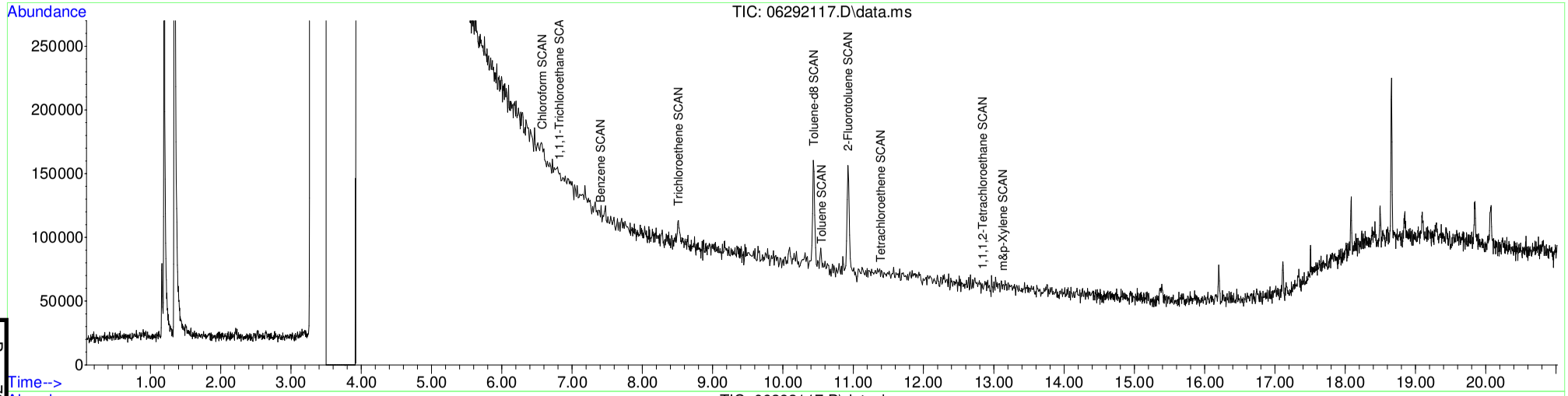
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	122824	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	106946	5083.30 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.67%		
Target Compounds					Qvalue
~~2] 1,1-Dichloroethene~~	~~3.198~~	~~61~~	~~267~~	~~49.91 ug/L #~~	~~18~~
6] Chloroform	6.564	83	13487	1894.06 ug/L #	99
7] 1,1,1-Trichloroethane	6.832	97	2364	356.80 ug/L #	99
8] Carbon tetrachloride	7.099	117	145	25.12 ug/L #	57
11] Trichloroethene	8.514	130	7923	1487.30 ug/L	99
13] Toluene	10.528	91	8782	320.68 ug/L	99
15] Tetrachloroethene	11.389	166	1981	282.78 ug/L #	99
19] m&p-Xylene	13.122	91	2201	79.44 ug/L #	94
20] o-Xylene	13.741	91	1001	33.41 ug/L #	93
25) 2-Fluorotoluene SCAN	10.926	109	70517	4664.52 ug/L	99
30) Chloroform SCAN	6.575	83	7943	1608.09 ug/L #	48
31) 1,1,1-Trichloroethane ...	6.818	97	737	159.69 ug/L #	37
33) Benzene SCAN	7.402	78	4351	375.50 ug/L #	90
35) Trichloroethene SCAN	8.512	130	4904	1660.40 ug/L #	53
36) Toluene-d8 SCAN	10.432	98	64176	4894.42 ug/L	97
37) Toluene SCAN	10.548	91	6640	391.27 ug/L	79
39) Tetrachloroethene SCAN	11.387	166	844	206.53 ug/L #	74
41) 1,1,1,2-Tetrachloroeth...	12.834	131	150	39.93 ug/L #	11
43) m&p-Xylene SCAN	13.128	91	1163	34.46 ug/L #	74

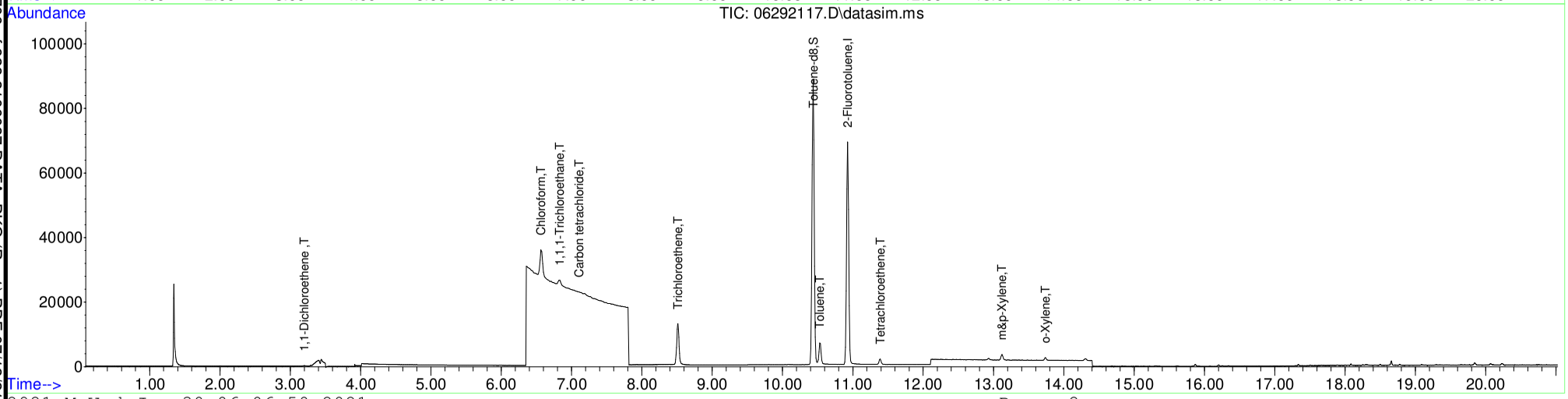
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292117.D
Acq On : 29 Jun 2021 15:29
InstName : AG5975C
Operator : TD
Sample : 2106037-29
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 30 06:06:49 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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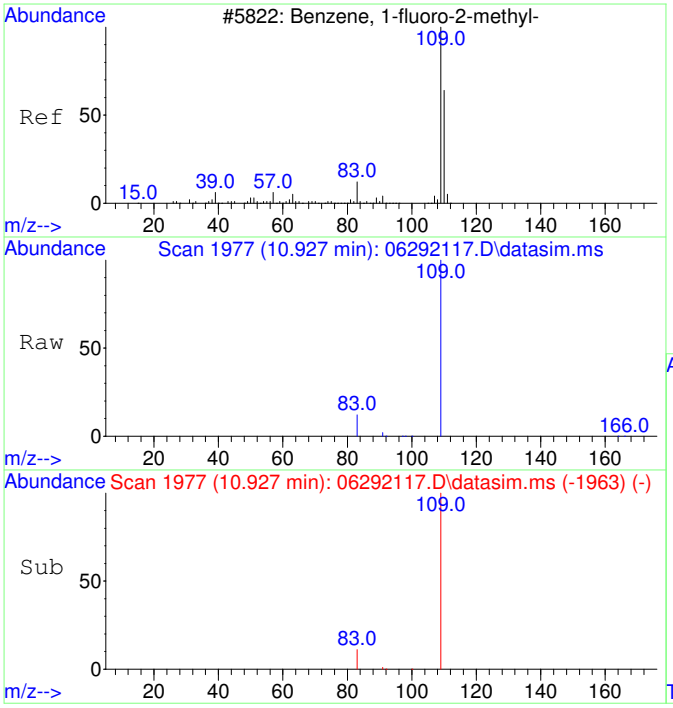
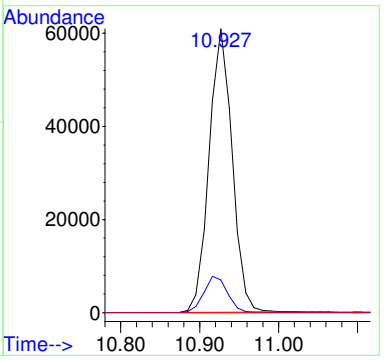
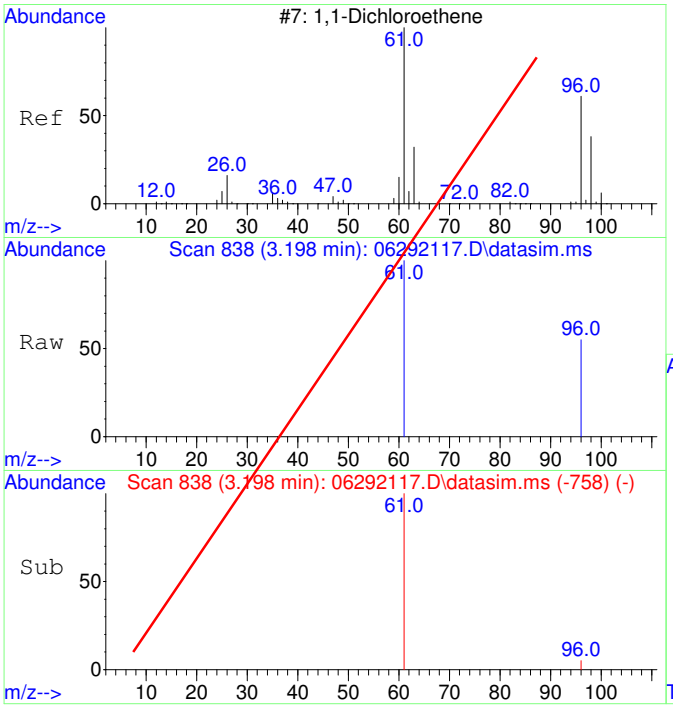


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion:109 Resp: 122824

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

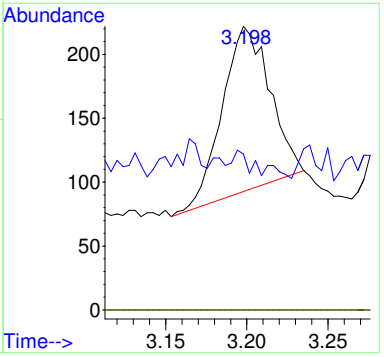


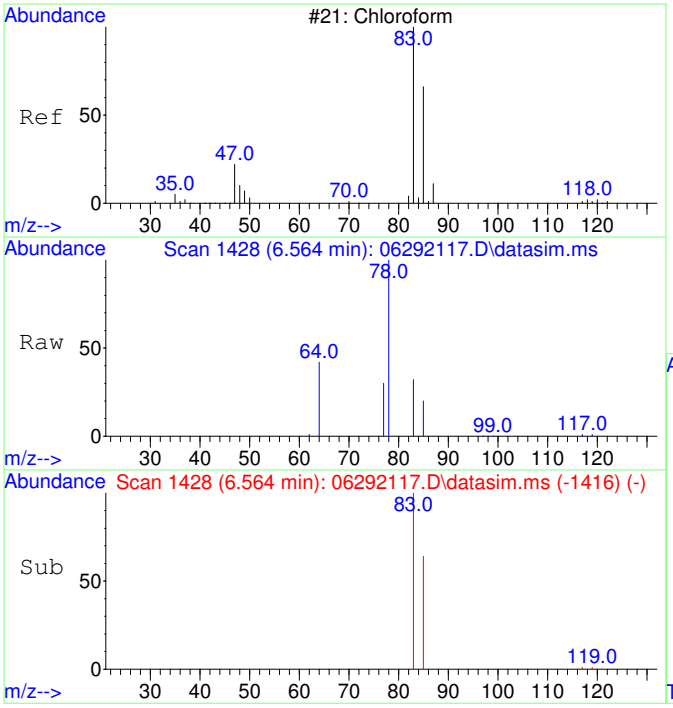


#2
1,1-Dichloroethene
Concen: 49.91 ug/L
RT: 3.198 min Scan# 838
Delta R.T. 0.149 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 61 Resp: 267

Ion	Ratio	Lower	Upper
61	100		
96	0.0	34.9	94.9#
63	0.0	0.0	20.0
98	0.0	0.0	20.0

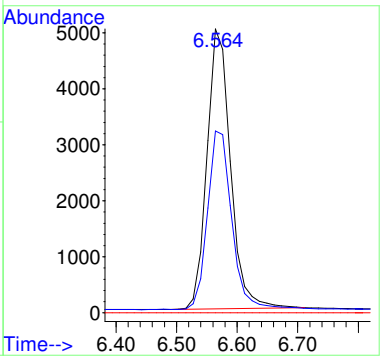


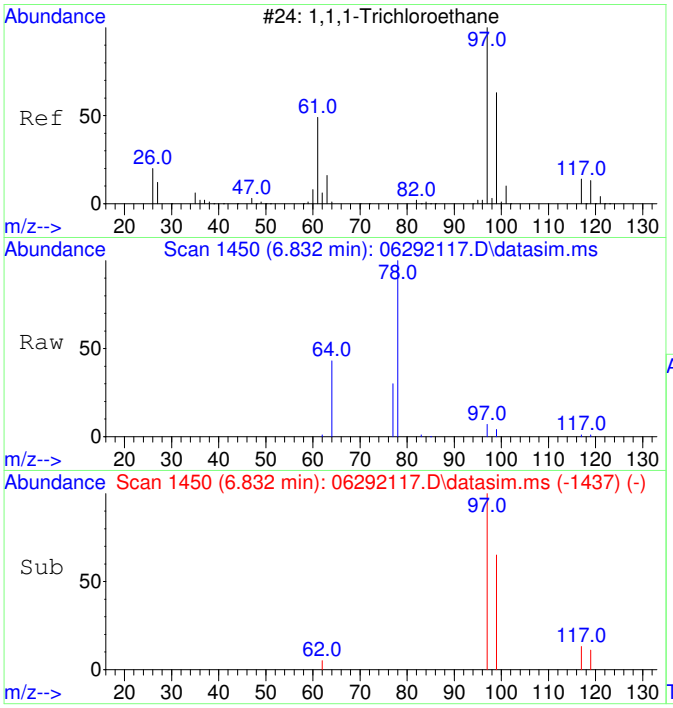


#6
Chloroform
Concen: 1894.06 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 83 Resp: 13487

Ion	Ratio	Lower	Upper
83	100		
85	65.1	34.5	94.5
87	0.0	0.0	20.0

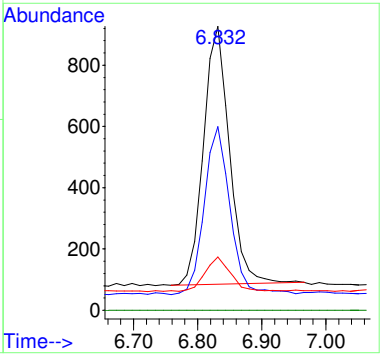


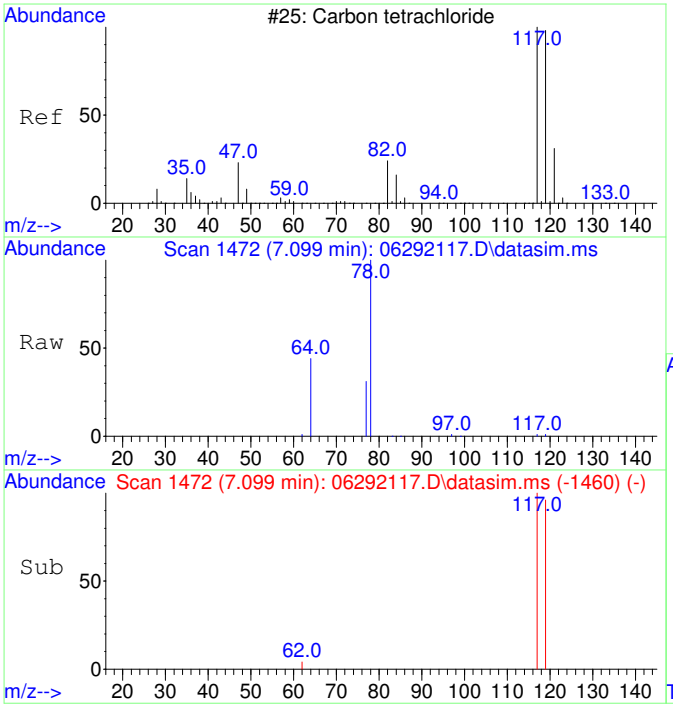


#7
1,1,1-Trichloroethane
Concen: 356.80 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 97 Resp: 2364

Ion	Ratio	Lower	Upper
97	100		
99	64.6	34.4	94.4
117	13.7	0.0	42.8
61	0.0	0.0	20.0

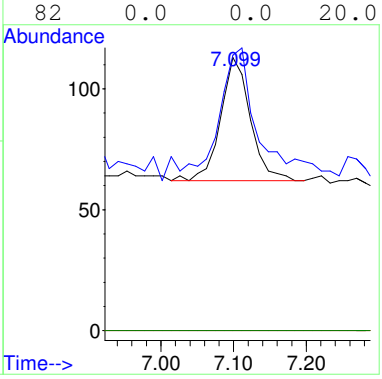


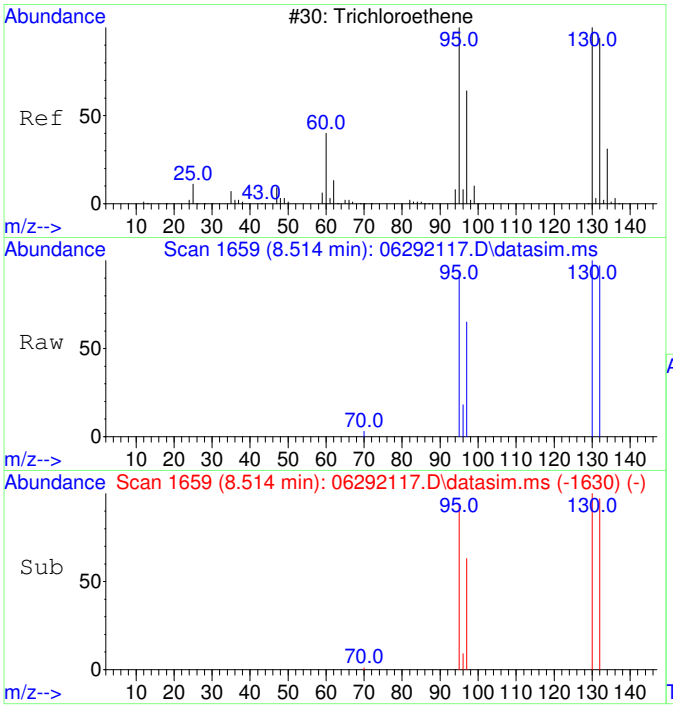


#8
Carbon tetrachloride
Concen: 25.12 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion:117 Resp: 145

Ion	Ratio	Lower	Upper
117	100		
119	138.6	66.3	126.3#
121	0.0	0.0	20.0
82	0.0	0.0	20.0

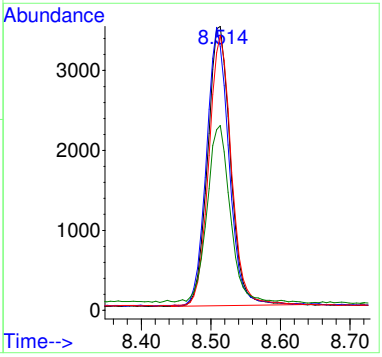


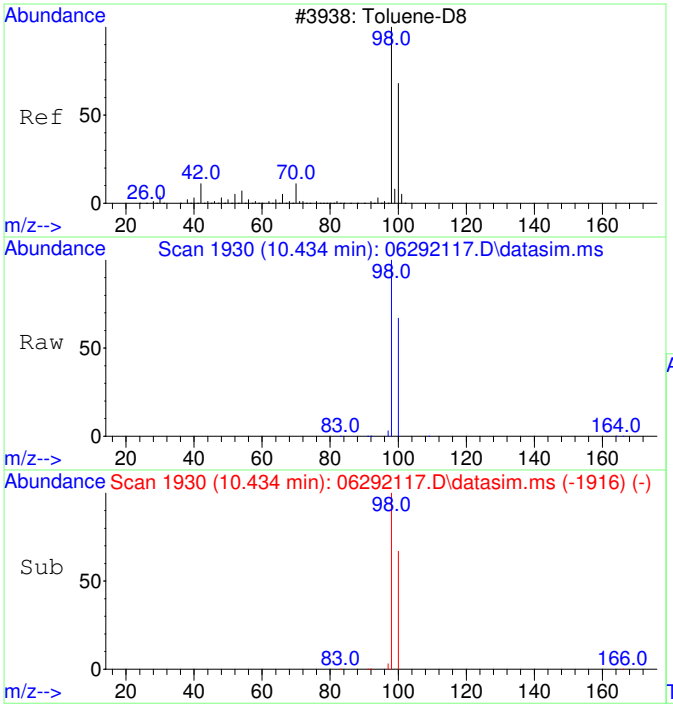


#11
Trichloroethene
Concen: 1487.30 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion:130 Resp: 7923

Ion	Ratio	Lower	Upper
130	100		
95	97.6	65.8	125.8
132	95.9	75.8	115.8
97	62.7	42.0	82.0

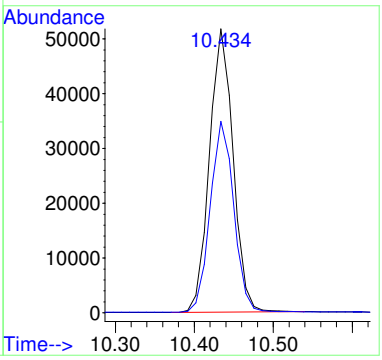


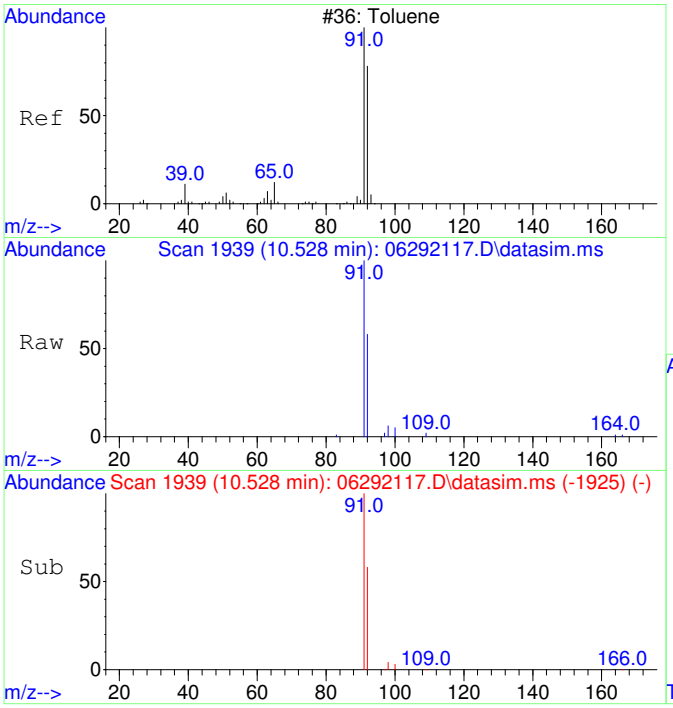


#12
Toluene-d8
Concen: 5083.30 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 98 Resp: 106946

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.3	97.3

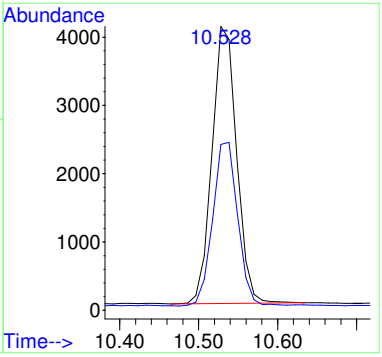


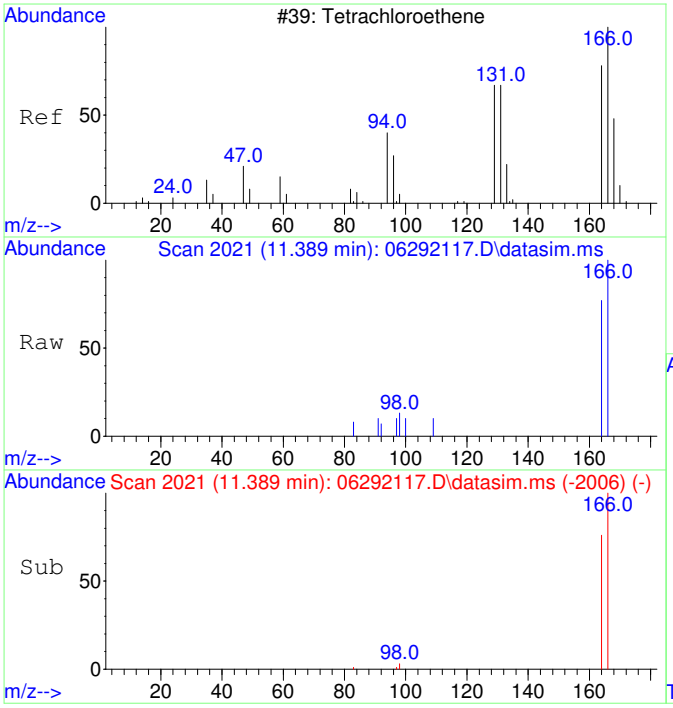


#13
Toluene
Concen: 320.68 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 91 Resp: 8782

Ion	Ratio	Lower	Upper
91	100		
92	59.5	30.2	90.2

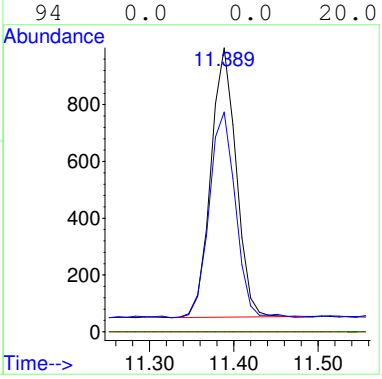


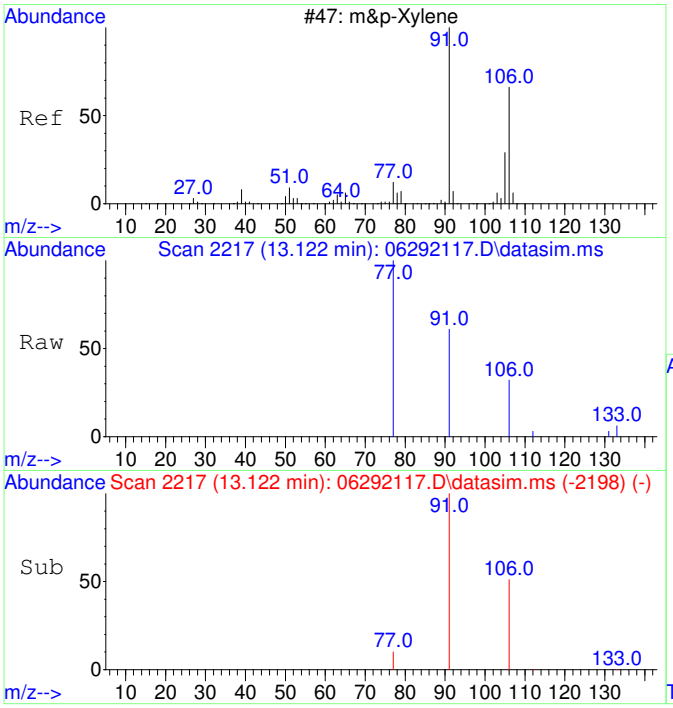


#15
Tetrachloroethene
Concen: 282.78 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion:166 Resp: 1981

Ion	Ratio	Lower	Upper
166	100		
164	79.1	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

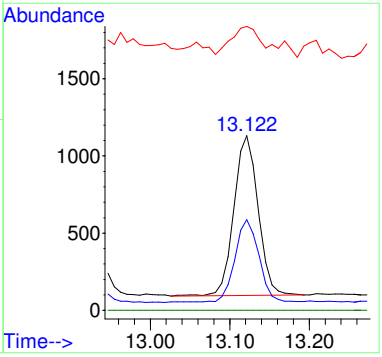


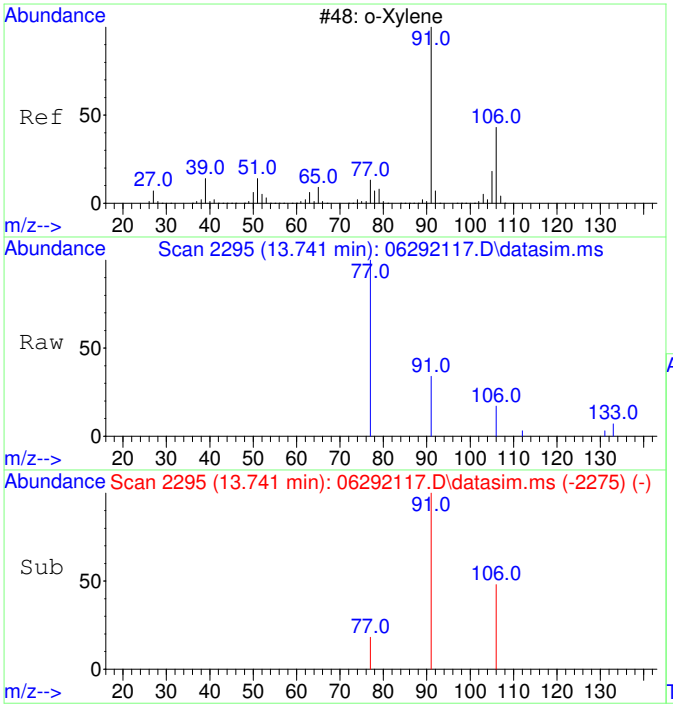


#19
m&p-Xylene
Concen: 79.44 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 91 Resp: 2201

Ion	Ratio	Lower	Upper
91	100		
106	50.2	21.4	81.4
77	22.2	0.0	42.7
105	0.0	0.0	20.0

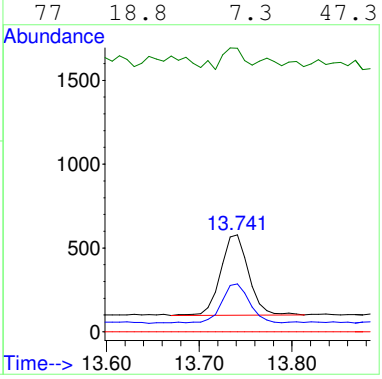


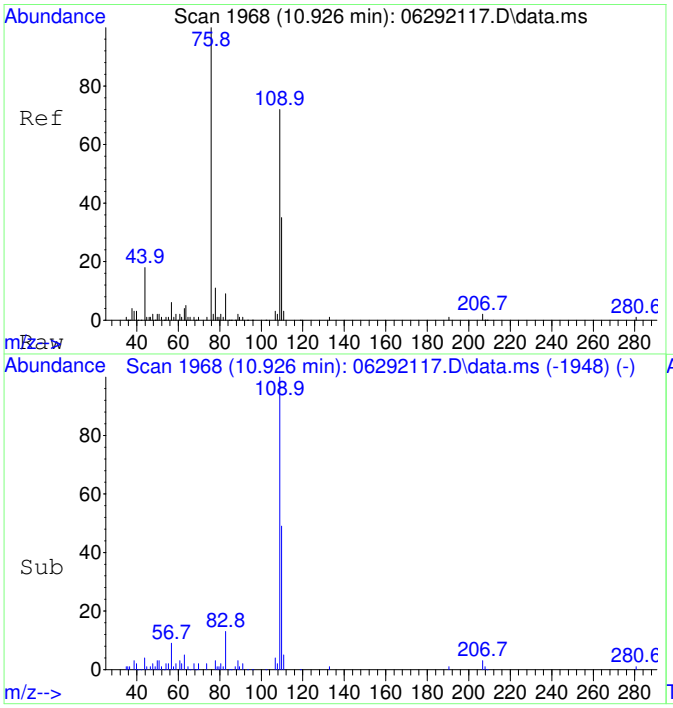


#20
o-Xylene
Concen: 33.41 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 91 Resp: 1001

Ion	Ratio	Lower	Upper
91	100		
106	50.1	18.7	78.7
105	0.0	0.0	30.0
77	18.8	7.3	47.3

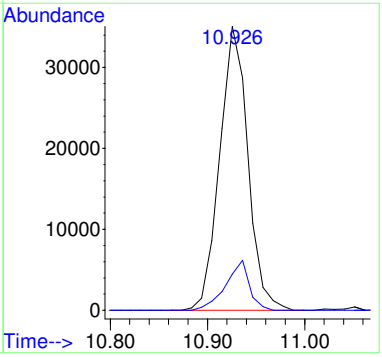


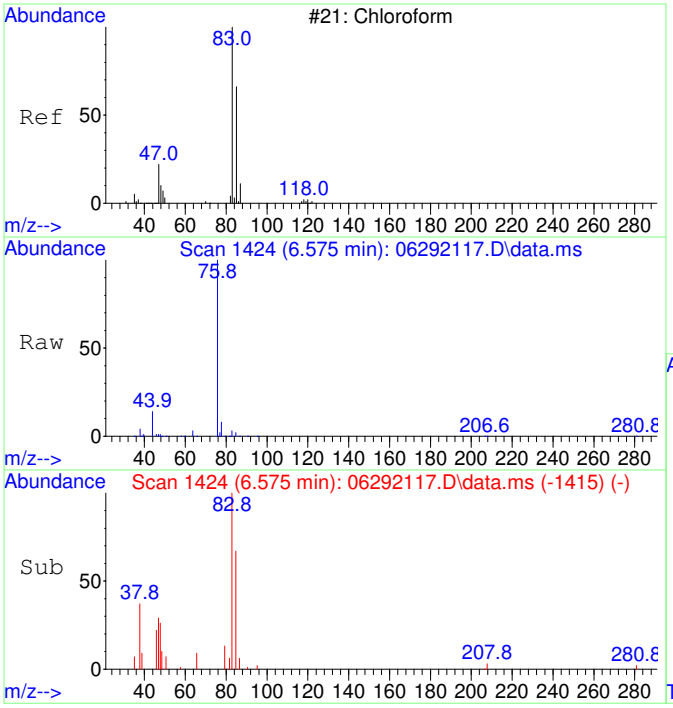


#25
2-Fluorotoluene SCAN
Concen: 4664.52 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion:109 Resp: 70517

Ion	Ratio	Lower	Upper
109	100		
83	14.8	0.0	44.5

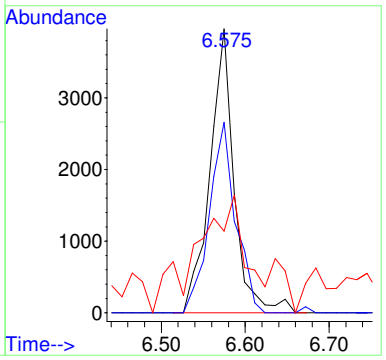


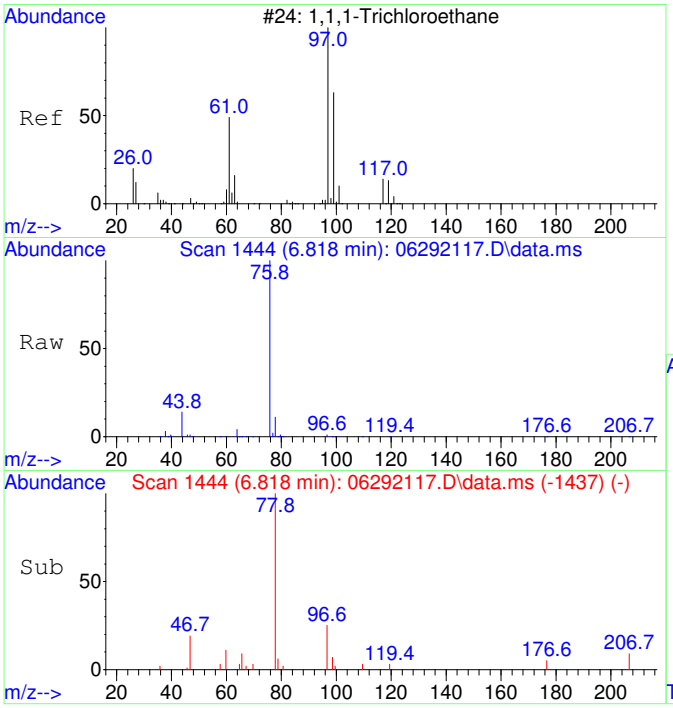


#30
Chloroform SCAN
Concen: 1608.09 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 83 Resp: 7943

Ion	Ratio	Lower	Upper
83	100		
85	72.9	27.1	87.1
47	96.7	7.5	67.5#

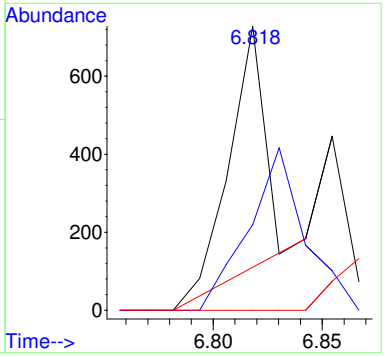


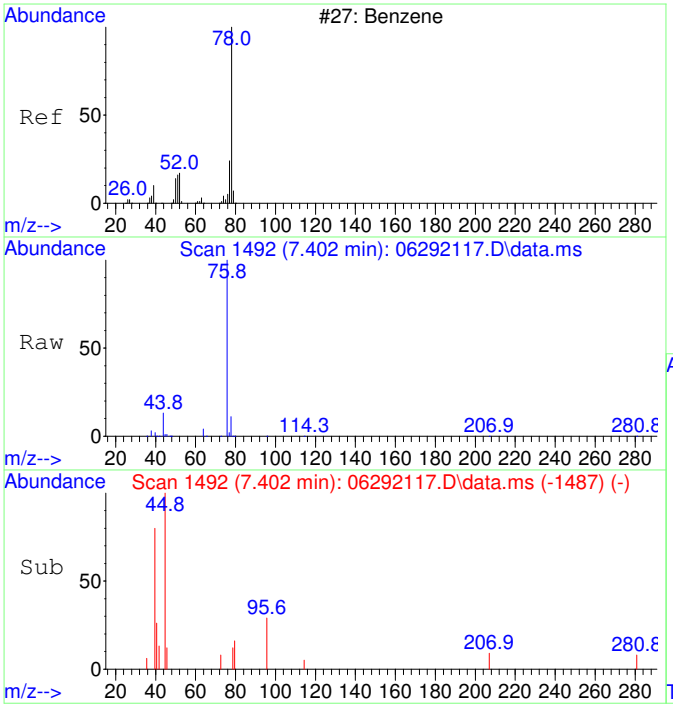


#31
1,1,1-Trichloroethane SCAN
Concen: 159.69 ug/L
RT: 6.818 min Scan# 1444
Delta R.T. -0.012 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 97 Resp: 737

Ion	Ratio	Lower	Upper
97	100		
99	101.1	26.5	86.5#
61	0.0	11.4	71.4#

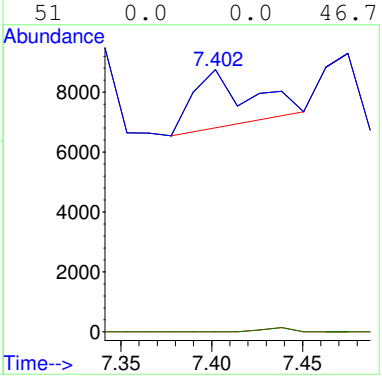


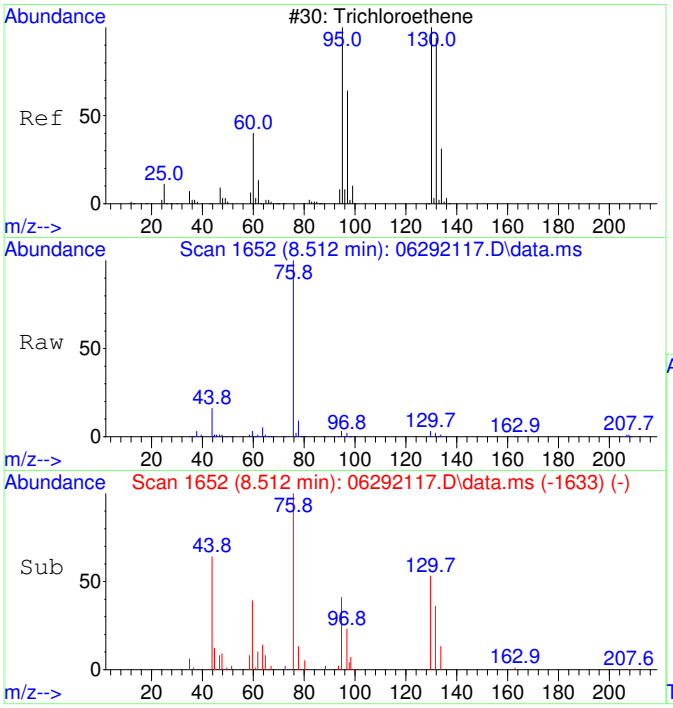


#33
Benzene SCAN
Concen: 375.50 ug/L
RT: 7.402 min Scan# 1492
Delta R.T. -0.036 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 78 Resp: 4351

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

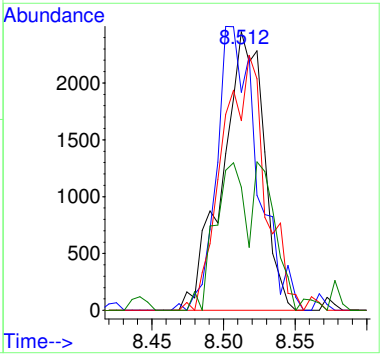


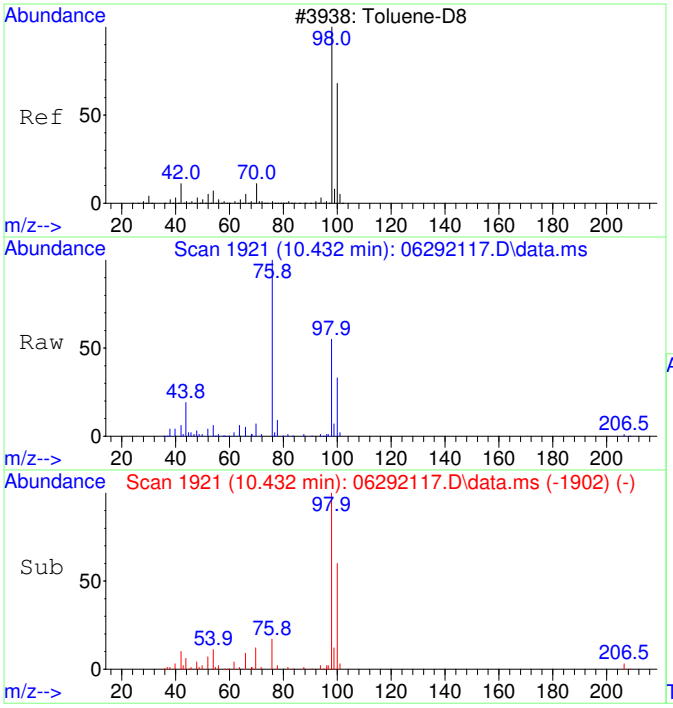


#35
Trichloroethene SCAN
Concen: 1660.40 ug/L
RT: 8.512 min Scan# 1652
Delta R.T. 0.006 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion:130 Resp: 4904

Ion	Ratio	Lower	Upper
130	100		
95	99.4	60.0	120.0
132	0.0	54.3	114.3#
97	26.6	24.6	84.6

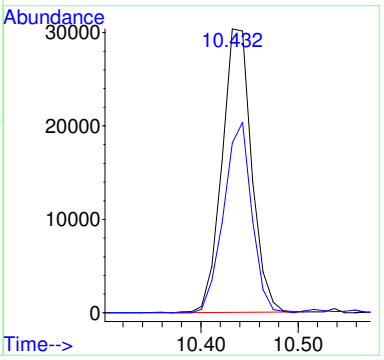


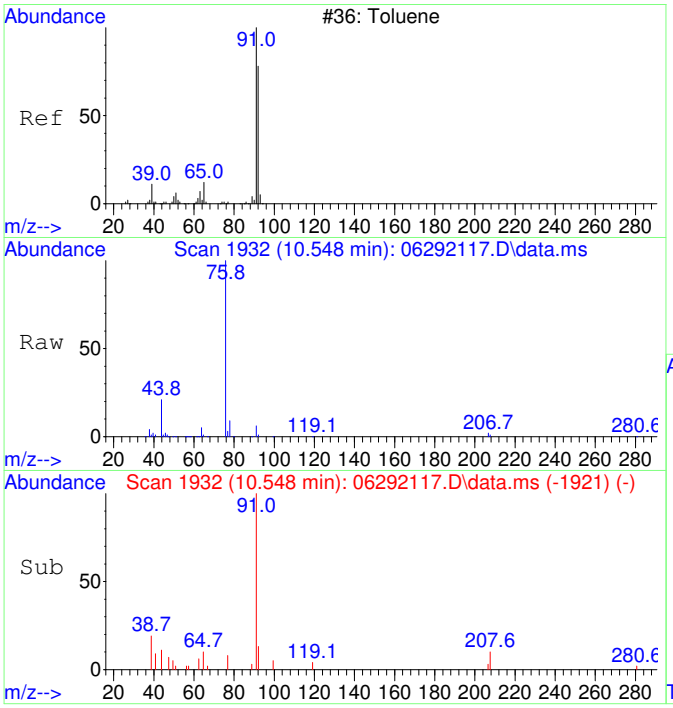


#36
Toluene-d8 SCAN
Concen: 4894.42 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 98 Resp: 64176

Ion	Ratio	Lower	Upper
98	100		
100	63.6	36.1	96.1

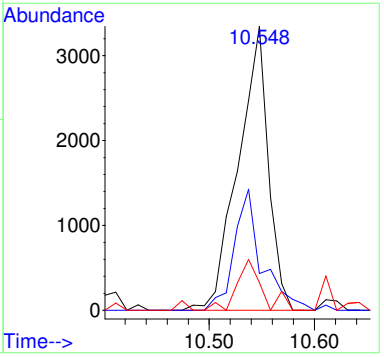


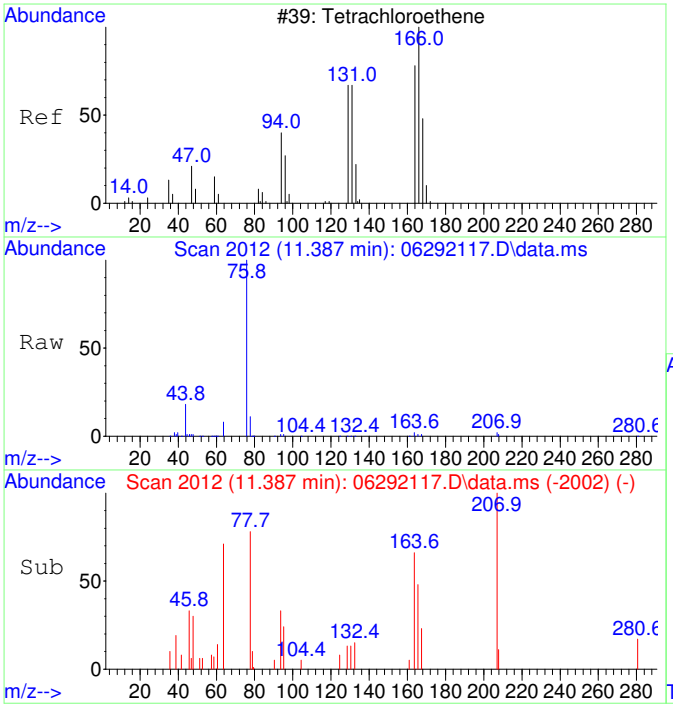


#37
Toluene SCAN
Concen: 391.27 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 91 Resp: 6640

Ion	Ratio	Lower	Upper
91	100		
92	39.6	26.5	86.5
65	14.8	0.0	40.6

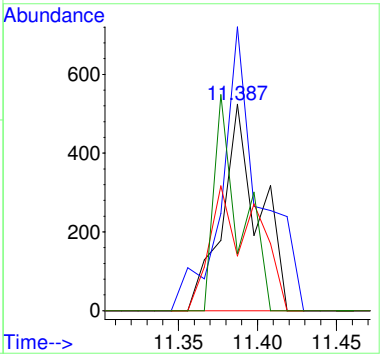


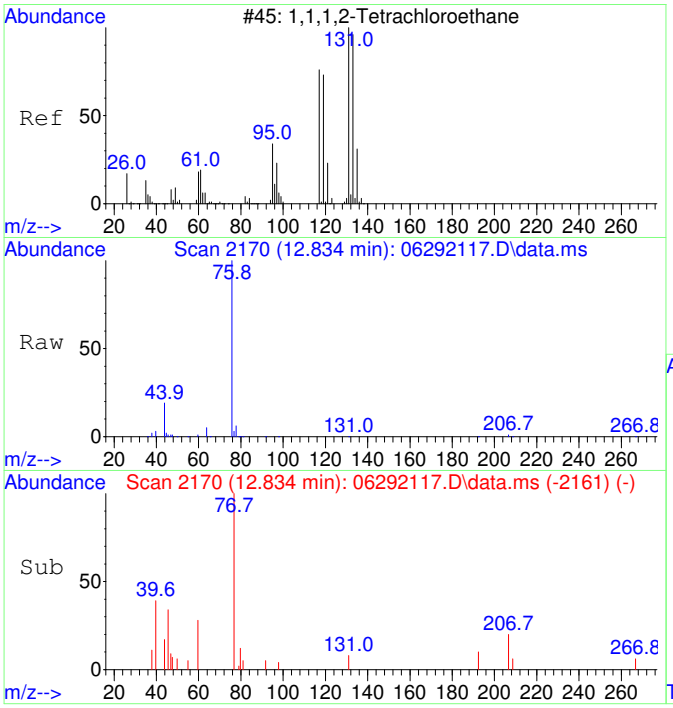


#39
Tetrachloroethene SCAN
Concen: 206.53 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion:166 Resp: 844

Ion	Ratio	Lower	Upper
166	100		
164	143.0	53.9	113.9#
131	75.2	45.6	105.6
129	74.3	51.3	111.3

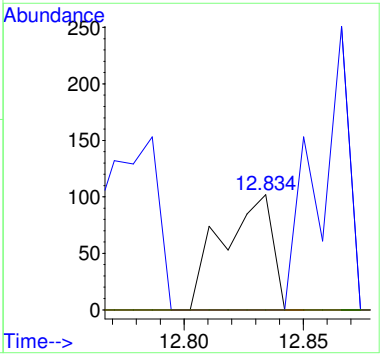


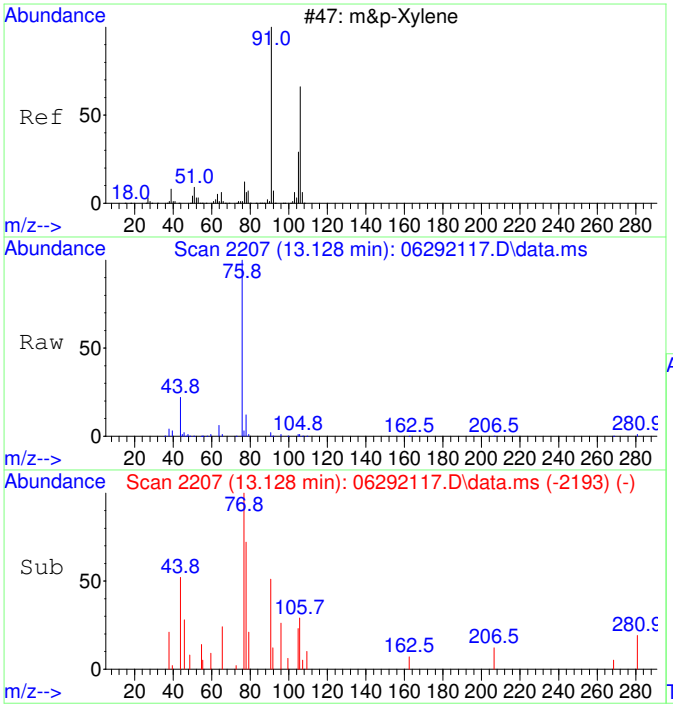


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 39.93 ug/L
RT: 12.834 min Scan# 2170
Delta R.T. -0.032 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion:131 Resp: 150

Ion	Ratio	Lower	Upper
131	100		
133	0.0	61.4	121.4#
119	0.0	33.6	93.6#
117	0.0	39.6	99.6#

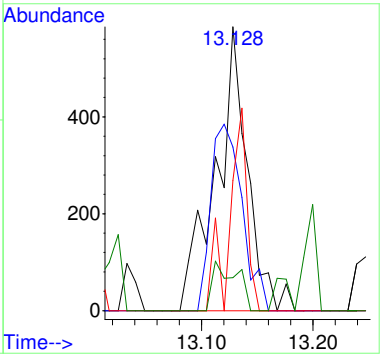




#43
m&p-Xylene SCAN
Concen: 34.46 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06292117.D
Acq: 29 Jun 2021 15:29

Tgt Ion: 91 Resp: 1163

Ion	Ratio	Lower	Upper
91	100		
106	64.8	21.2	81.2
105	39.9	0.0	51.6
51	0.0	0.0	41.7



2106037-30

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292118.D
Acq On : 29 Jun 2021 15:55
InstName : AG5975C
Operator : TD
Sample : 2106037-30
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 30 06:06:55 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

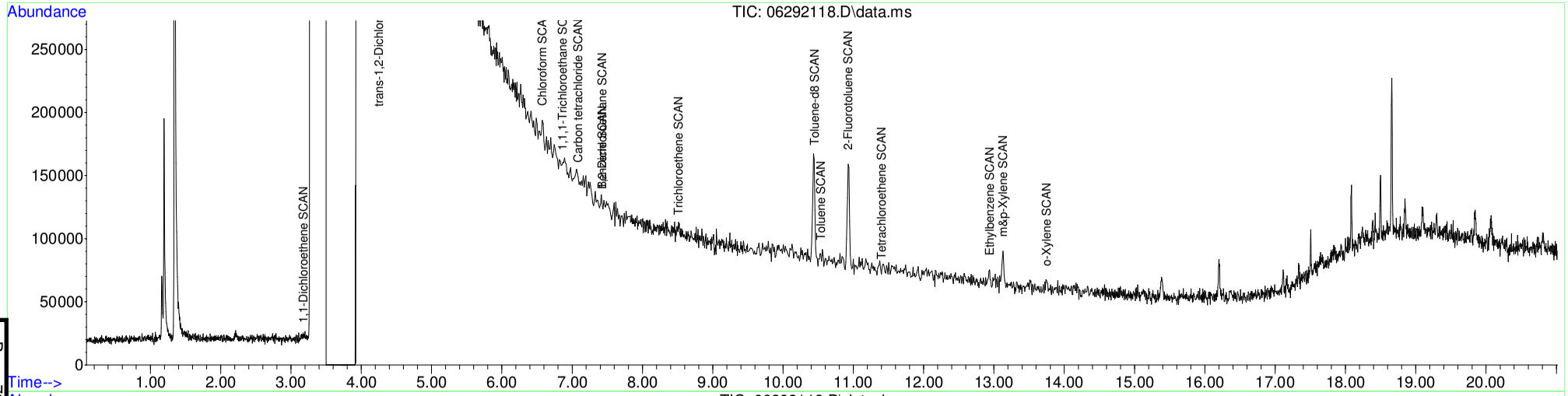
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	124605	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	107670	5044.56 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.89%		
Target Compounds					Qvalue
~~2] 1,1-Dichloroethene~~	~~3.198~~	~~61~~	~~340~~	~~62.65 ug/L #~~	~~18~~
6] Chloroform	6.564	83	15152	2097.47 ug/L #	100
7] 1,1,1-Trichloroethane	6.832	97	355	52.81 ug/L #	97
8] Carbon tetrachloride	7.099	117	143	24.42 ug/L #	41
11] Trichloroethene	8.514	130	3928	726.82 ug/L	97
13] Toluene	10.528	91	11141	401.01 ug/L	99
15] Tetrachloroethene	11.389	166	1357	190.94 ug/L #	100
18] Ethylbenzene	12.931	91	10502	294.34 ug/L #	97
19] m&p-Xylene	13.122	91	31028	1103.90 ug/L #	99
20] o-Xylene	13.741	91	8318	273.62 ug/L #	91
25) 2-Fluorotoluene SCAN	10.926	109	74775	4875.47 ug/L	93
26) 1,1-Dichloroethene SCAN	3.178	61	130	40.13 ug/L #	25
27) trans-1,2-Dichloroethe...	4.246	61	113	32.24 ug/L #	1
30) Chloroform SCAN	6.575	83	10357	2066.84 ug/L	90
31) 1,1,1-Trichloroethane ...	6.855	97	251	53.61 ug/L #	28
32) Carbon tetrachloride SCAN	7.086	117	203	52.54 ug/L #	17
33) Benzene SCAN	7.426	78	4261	362.47 ug/L #	90
34) 1,2-Dichloroethane SCAN	7.426	62	98	26.44 ug/L #	1
35) Trichloroethene SCAN	8.507	130	2285	762.60 ug/L #	56
36) Toluene-d8 SCAN	10.443	98	65155	4898.06 ug/L	98
37) Toluene SCAN	10.537	91	7894	458.51 ug/L	95
39) Tetrachloroethene SCAN	11.398	166	527	127.11 ug/L #	9
42) Ethylbenzene SCAN	12.938	91	7527	327.97 ug/L	91
43) m&p-Xylene SCAN	13.128	91	19728	576.19 ug/L	91
44) o-Xylene SCAN	13.748	91	5510	292.54 ug/L	84

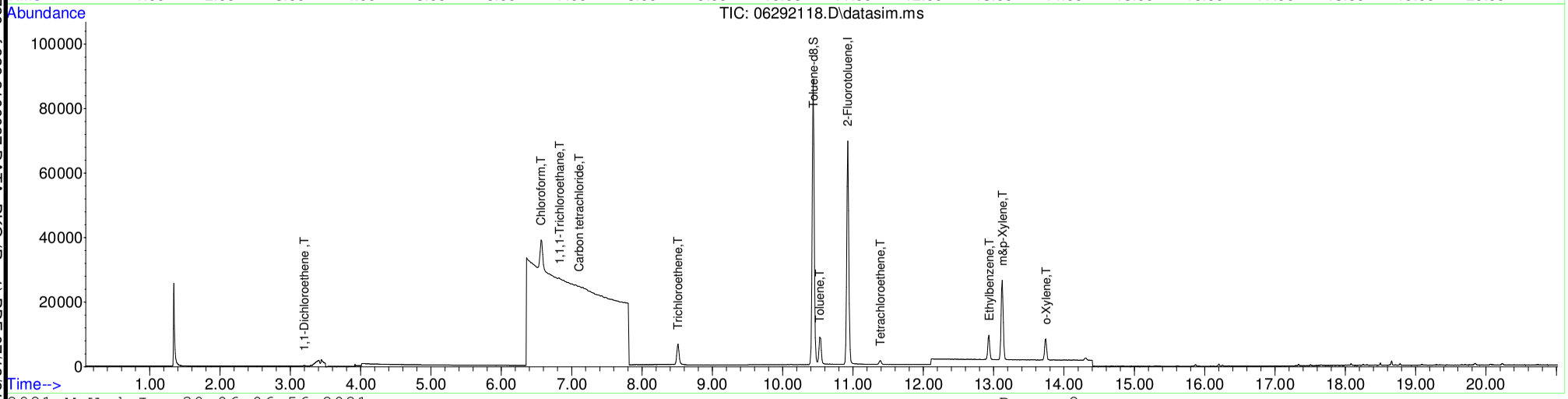
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292118.D
Acq On : 29 Jun 2021 15:55
InstName : AG5975C
Operator : TD
Sample : 2106037-30
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 30 06:06:55 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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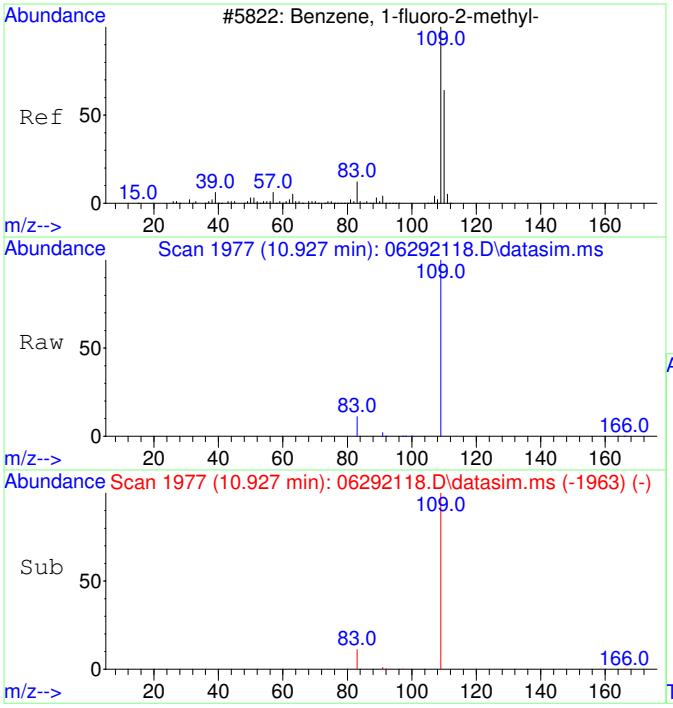
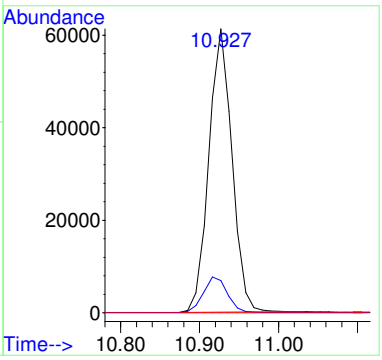
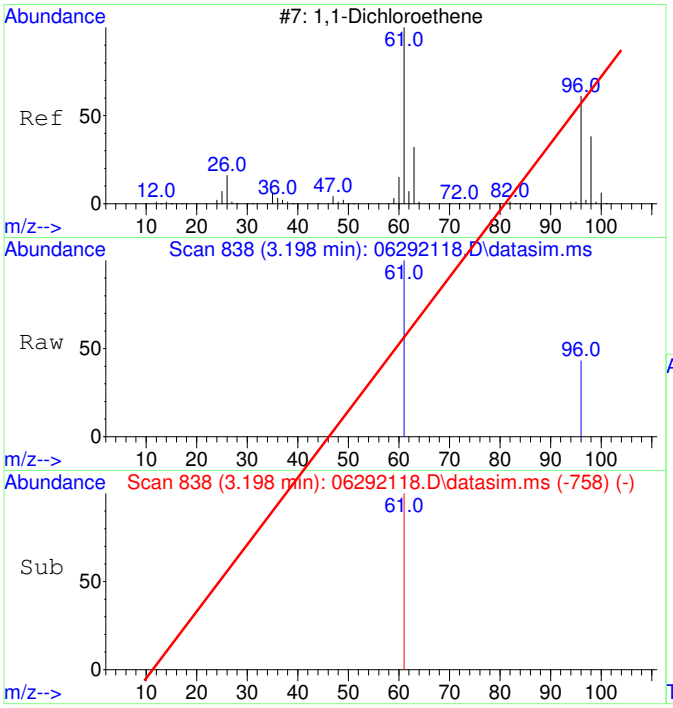


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion:109 Resp: 124605

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	43.7
110	0.0	0.0	20.0

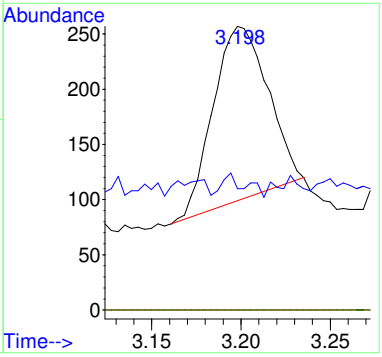


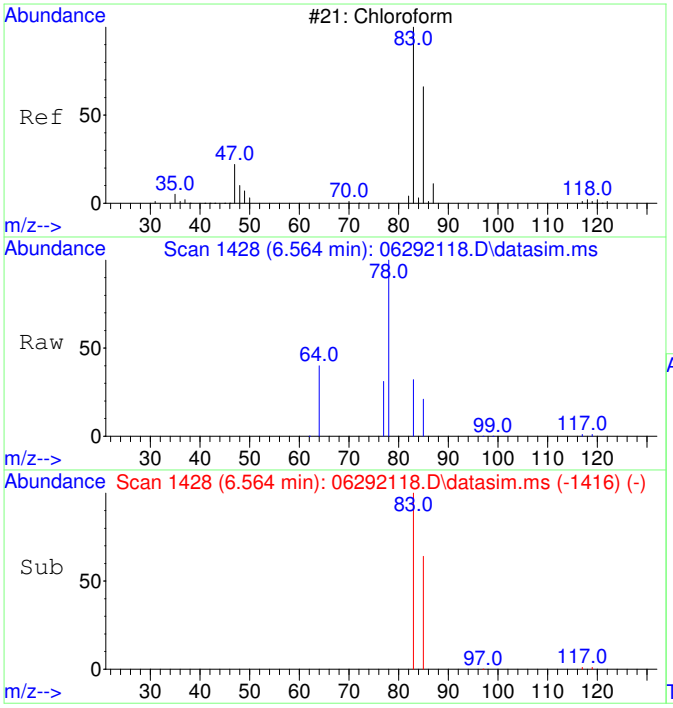


#2
1,1-Dichloroethene
Concen: 62.65 ug/L
RT: 3.198 min Scan# 838
Delta R.T. 0.149 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 61 Resp: 340

Ion	Ratio	Lower	Upper
61	100		
96	0.0	34.9	94.9#
63	0.0	0.0	20.0
98	0.0	0.0	20.0

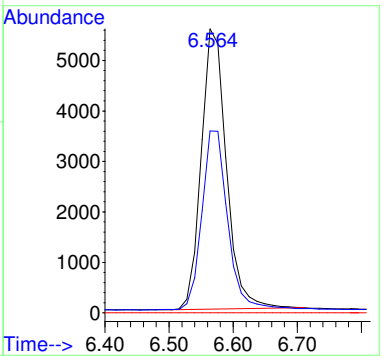


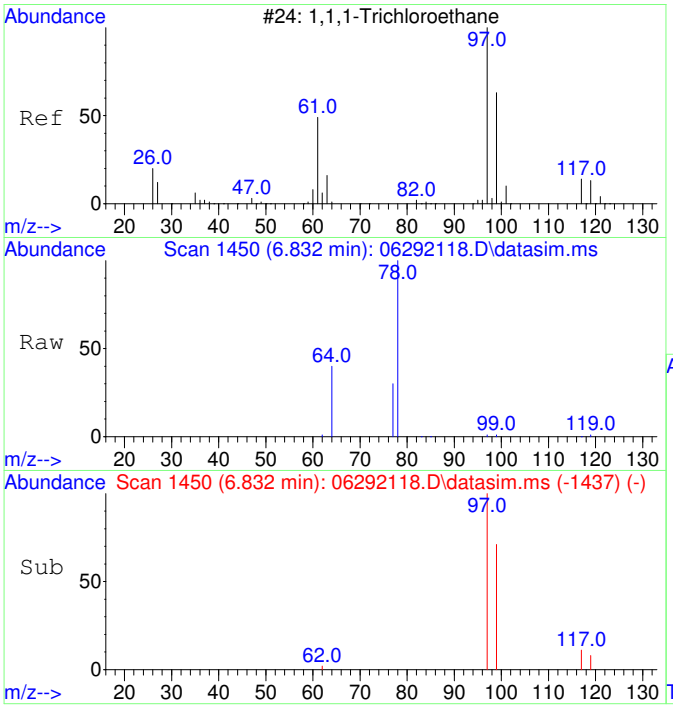


#6
Chloroform
Concen: 2097.47 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 83 Resp: 15152

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.5	94.5
87	0.0	0.0	20.0

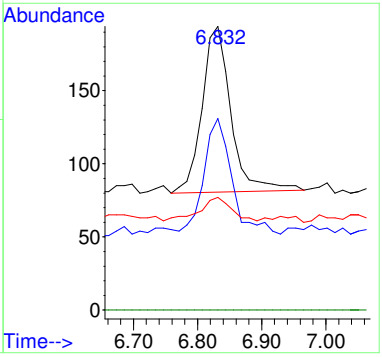


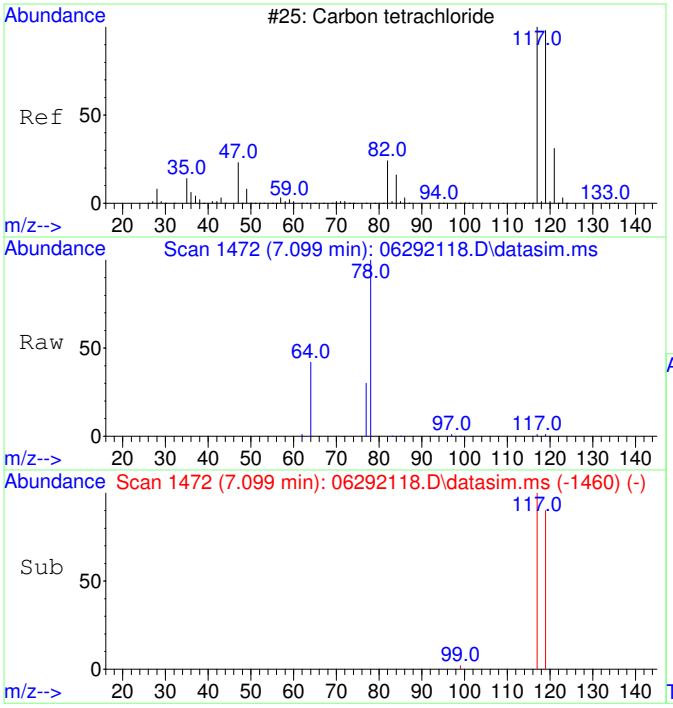


#7
1,1,1-Trichloroethane
Concen: 52.81 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 97 Resp: 355

Ion	Ratio	Lower	Upper
97	100		
99	66.5	34.4	94.4
117	14.9	0.0	42.8
61	0.0	0.0	20.0

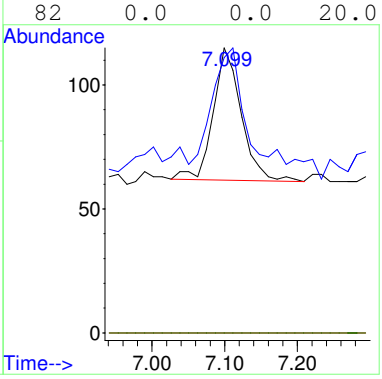


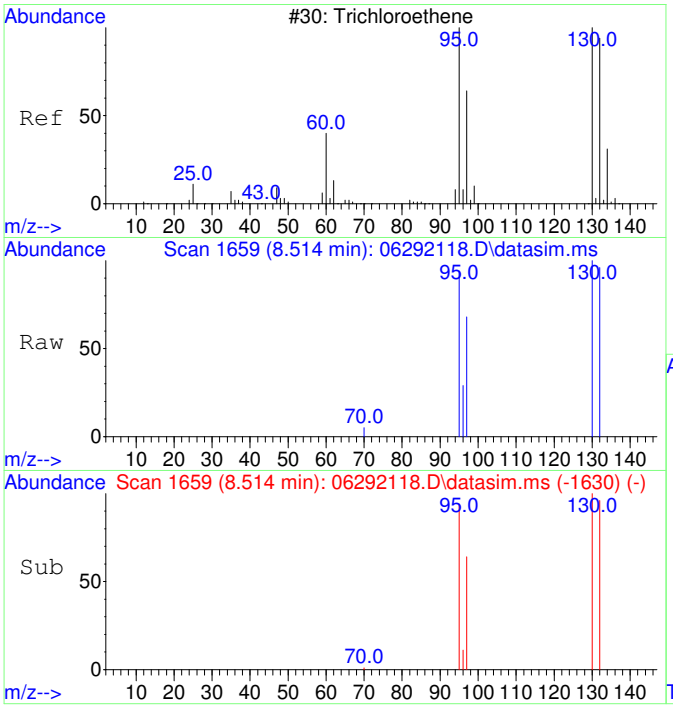


#8
Carbon tetrachloride
Concen: 24.42 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion:117 Resp: 143

Ion	Ratio	Lower	Upper
117	100		
119	153.8	66.3	126.3#
121	0.0	0.0	20.0
82	0.0	0.0	20.0

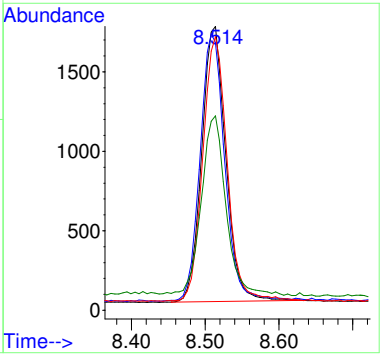


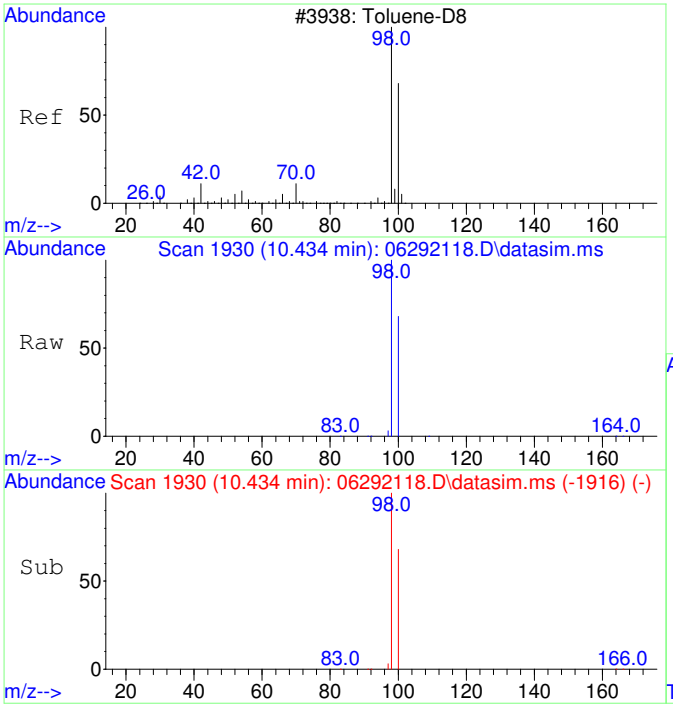


#11
Trichloroethene
Concen: 726.82 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion:130 Resp: 3928

Ion	Ratio	Lower	Upper
130	100		
95	98.5	65.8	125.8
132	97.0	75.8	115.8
97	66.2	42.0	82.0

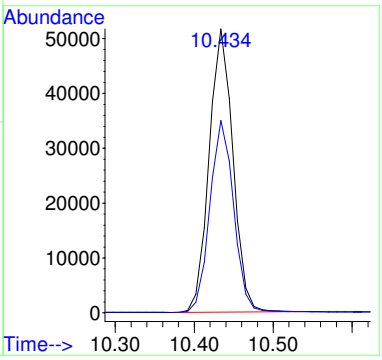


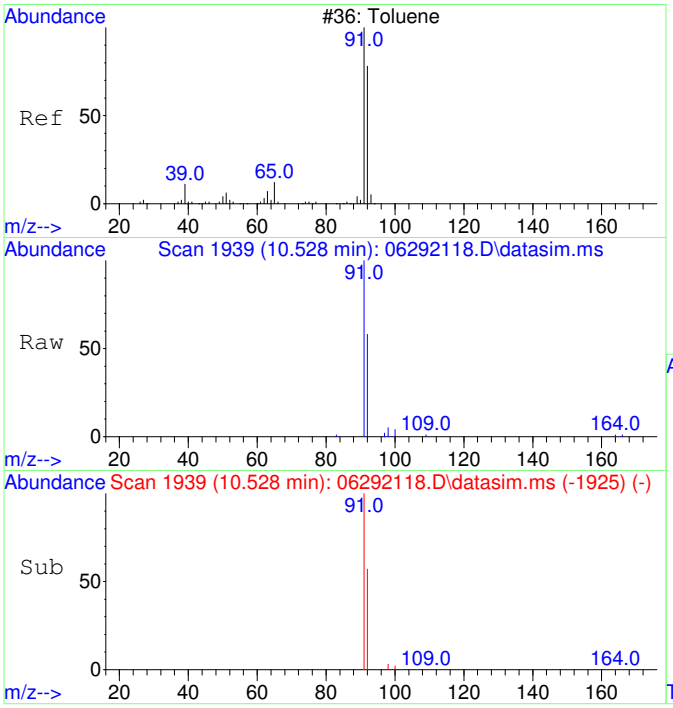


#12
Toluene-d8
Concen: 5044.56 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 98 Resp: 107670

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.3	97.3

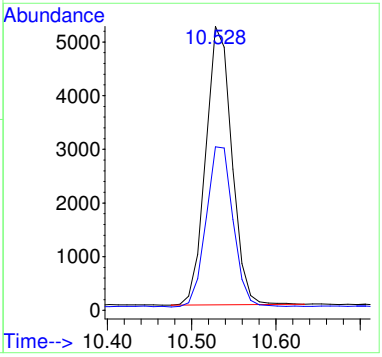


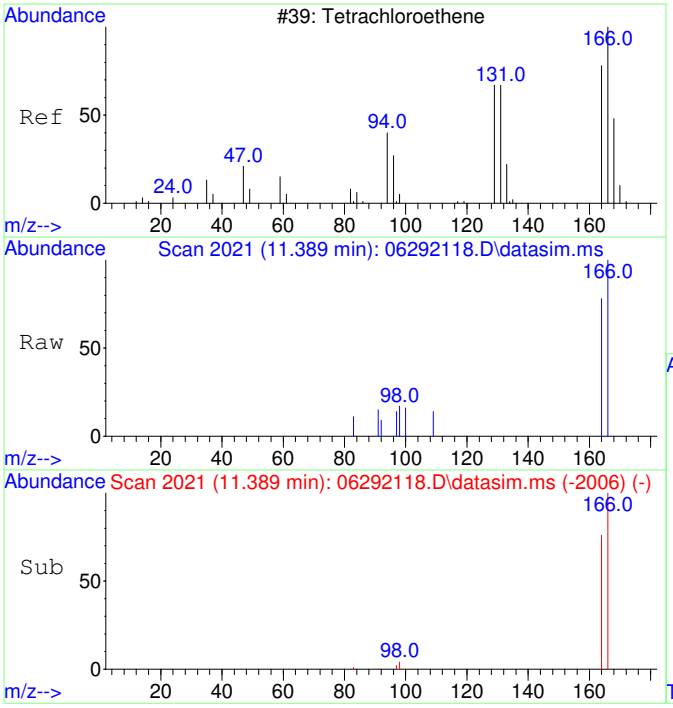


#13
Toluene
Concen: 401.01 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 91 Resp: 11141

Ion	Ratio	Lower	Upper
91	100		
92	59.4	30.2	90.2

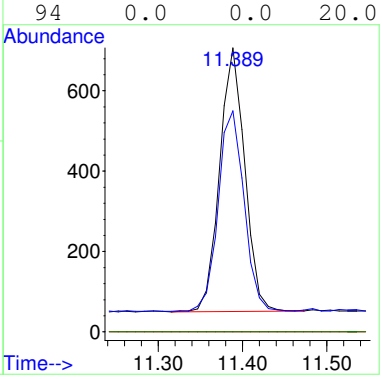


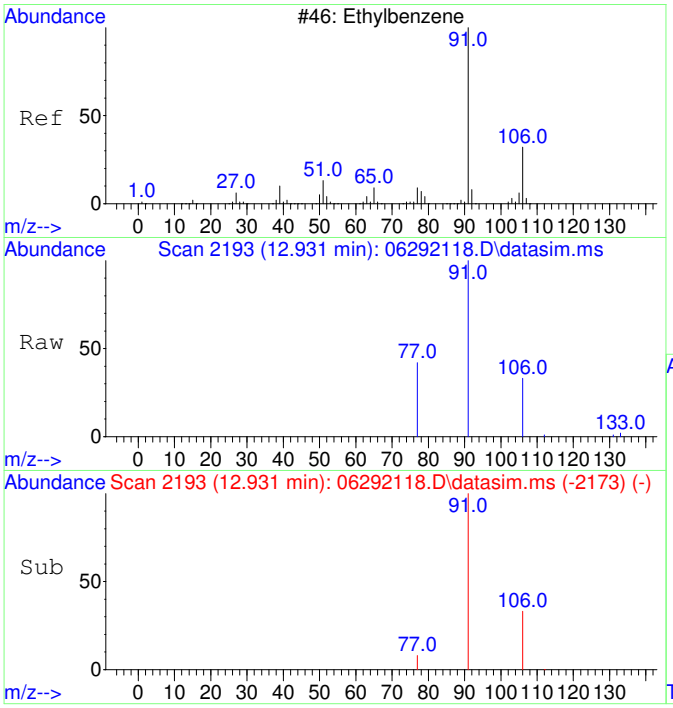


#15
Tetrachloroethene
Concen: 190.94 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion:166 Resp: 1357

Ion	Ratio	Lower	Upper
166	100		
164	78.3	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

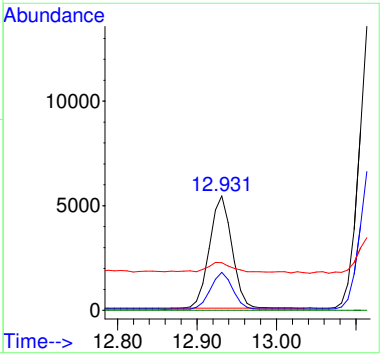


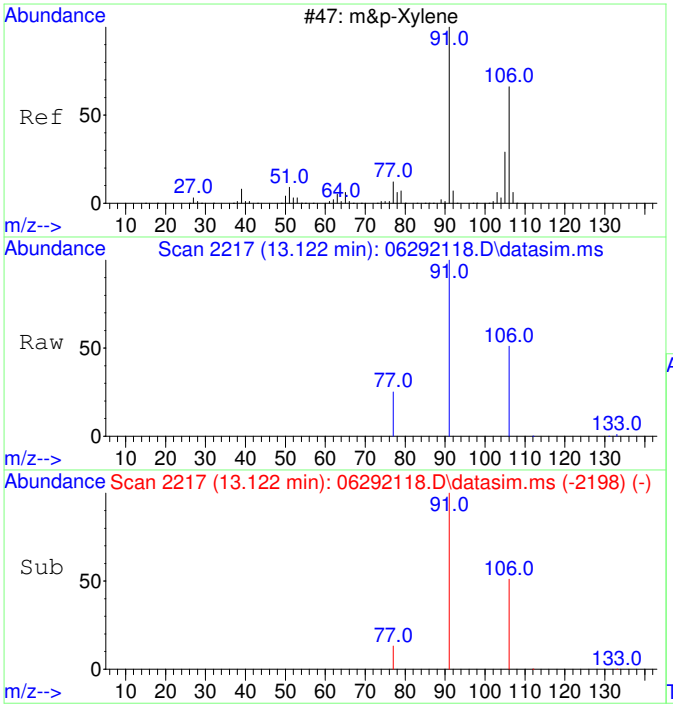


#18
Ethylbenzene
Concen: 294.34 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 91 Resp: 10502

Ion	Ratio	Lower	Upper
91	100		
106	32.3	2.8	62.8
77	12.0	0.0	38.2
105	0.0	0.0	20.0

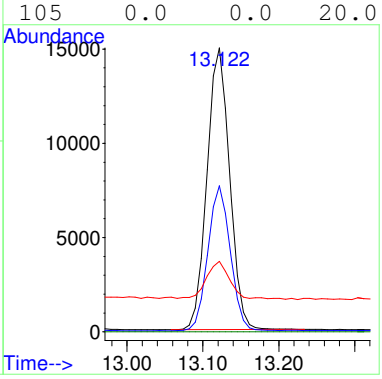


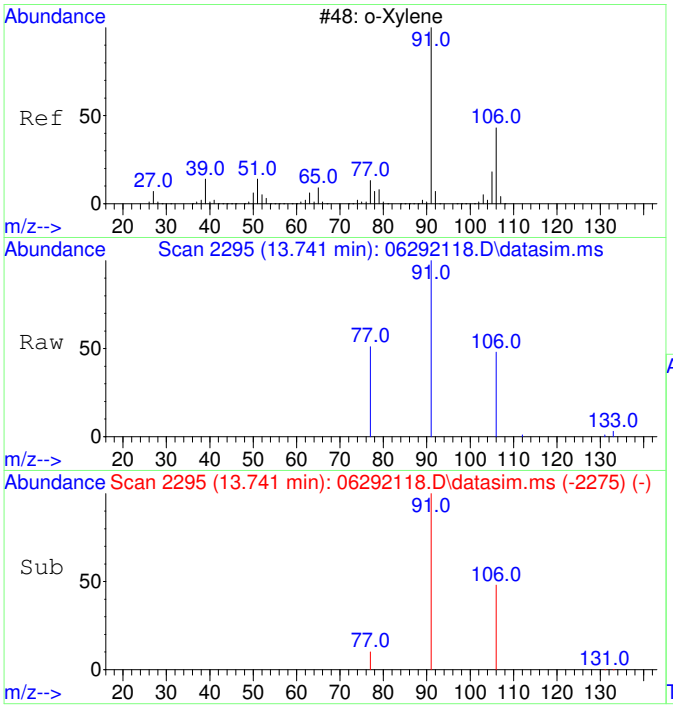


#19
m&p-Xylene
Concen: 1103.90 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 91 Resp: 31028

Ion	Ratio	Lower	Upper
91	100		
106	50.9	21.4	81.4
77	14.2	0.0	42.7
105	0.0	0.0	20.0

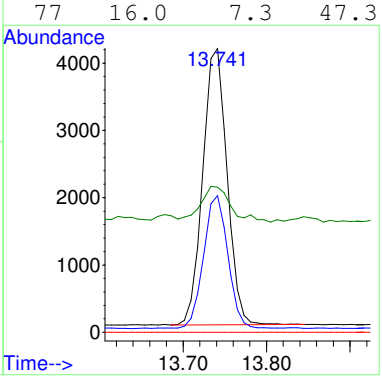


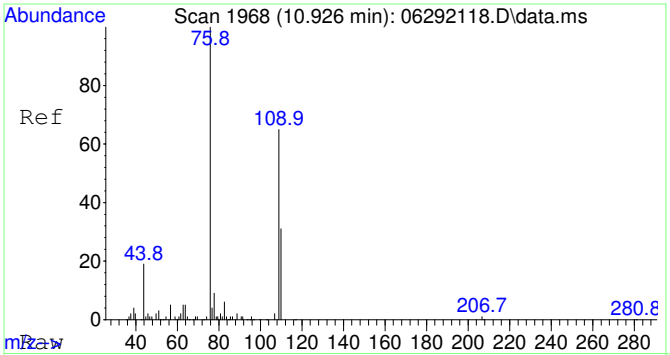


#20
o-Xylene
Concen: 273.62 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 91 Resp: 8318

Ion	Ratio	Lower	Upper
91	100		
106	47.8	18.7	78.7
105	0.0	0.0	30.0
77	16.0	7.3	47.3

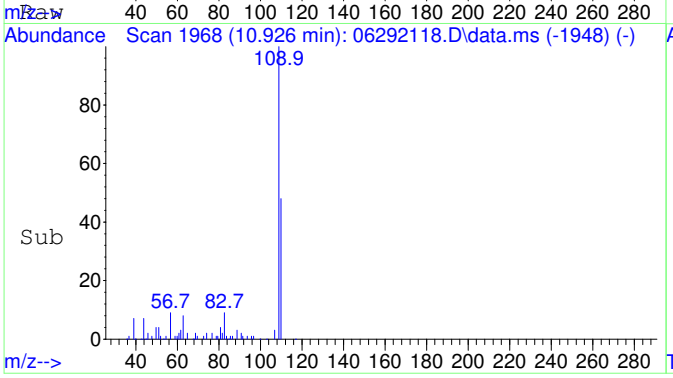


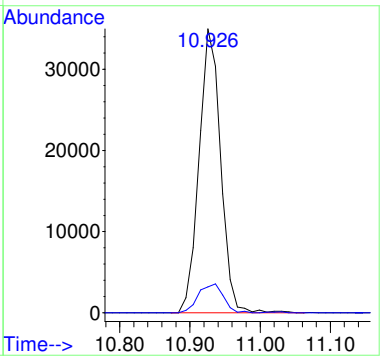


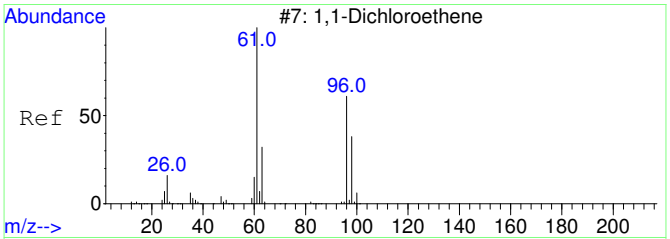
#25
2-Fluorotoluene SCAN
Concen: 4875.47 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion:109 Resp: 74775

Ion	Ratio	Lower	Upper
109	100		
83	11.8	0.0	44.5



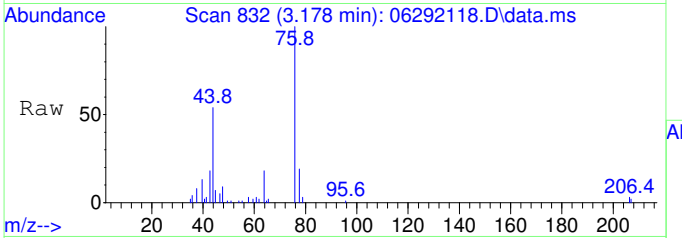


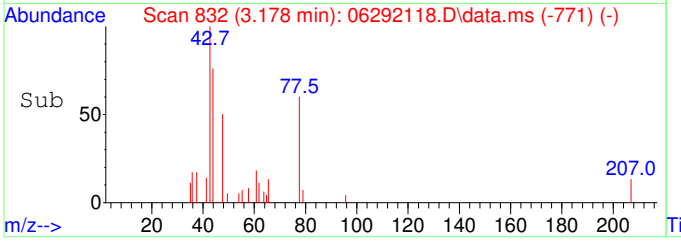


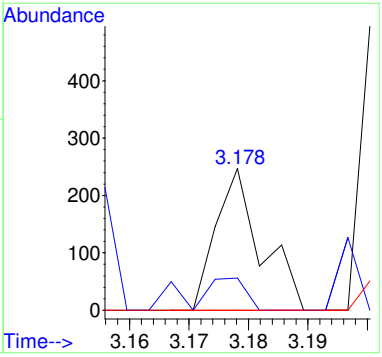
#26
1,1-Dichloroethene SCAN
Concen: 40.13 ug/L
RT: 3.178 min Scan# 832
Delta R.T. 0.127 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

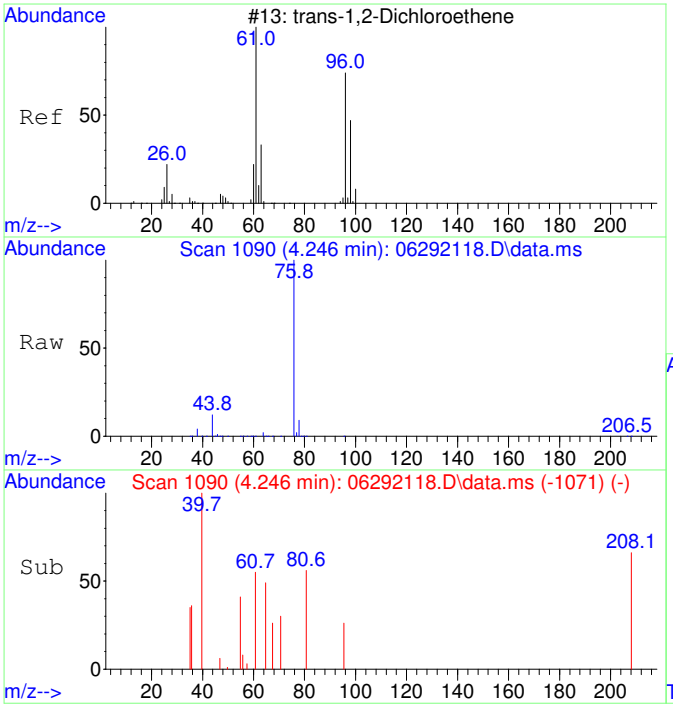
Tgt Ion: 61 Resp: 130

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.0	93.0#
98	0.0	12.5	72.5#





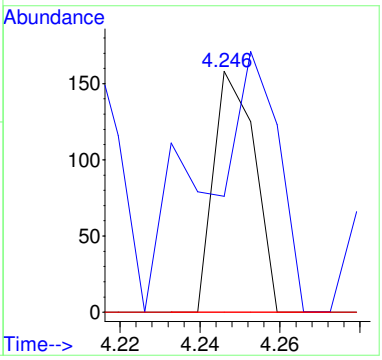


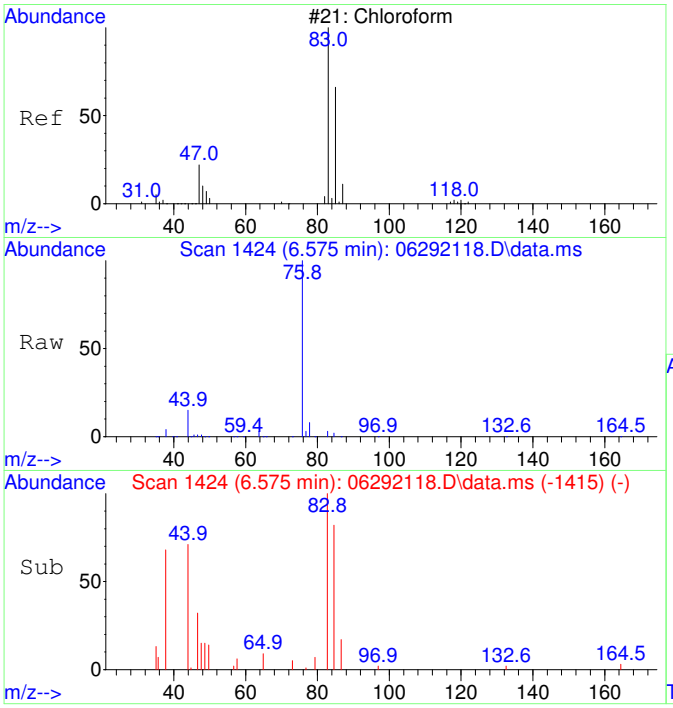


#27
trans-1,2-Dichloroethene SCAN
Concen: 32.24 ug/L
RT: 4.246 min Scan# 1090
Delta R.T. 0.027 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 61 Resp: 113

Ion	Ratio	Lower	Upper
61	100		
96	197.3	49.3	109.3#
98	0.0	24.0	84.0#

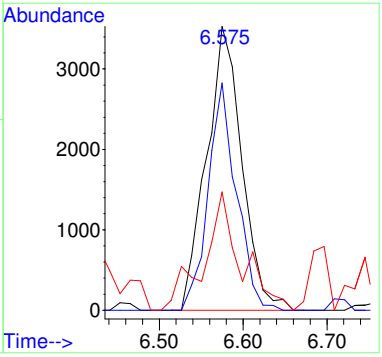


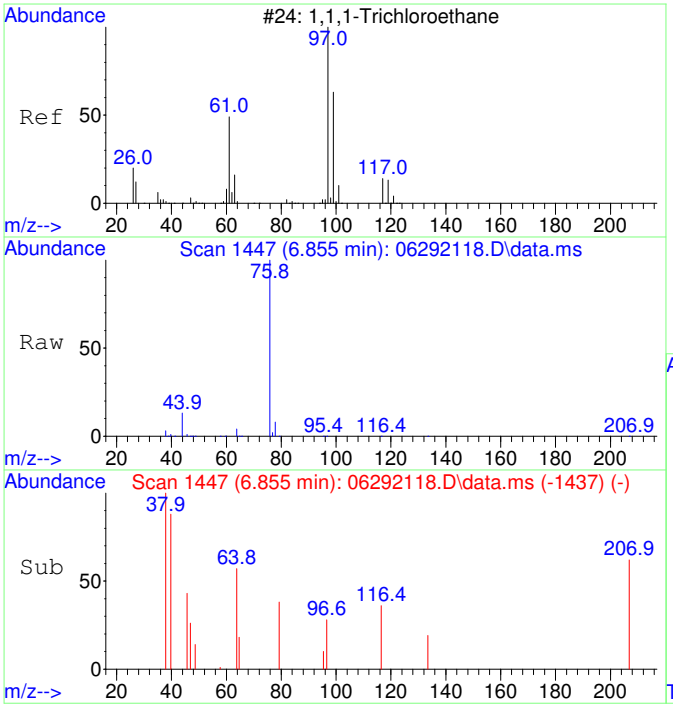


#30
Chloroform SCAN
Concen: 2066.84 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 83 Resp: 10357

Ion	Ratio	Lower	Upper
83	100		
85	63.8	27.1	87.1
47	43.8	7.5	67.5

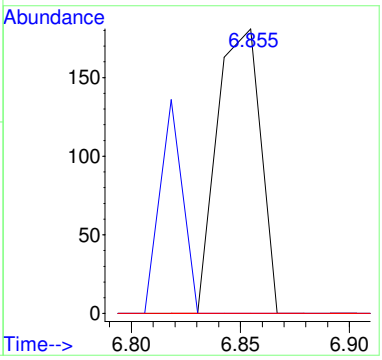


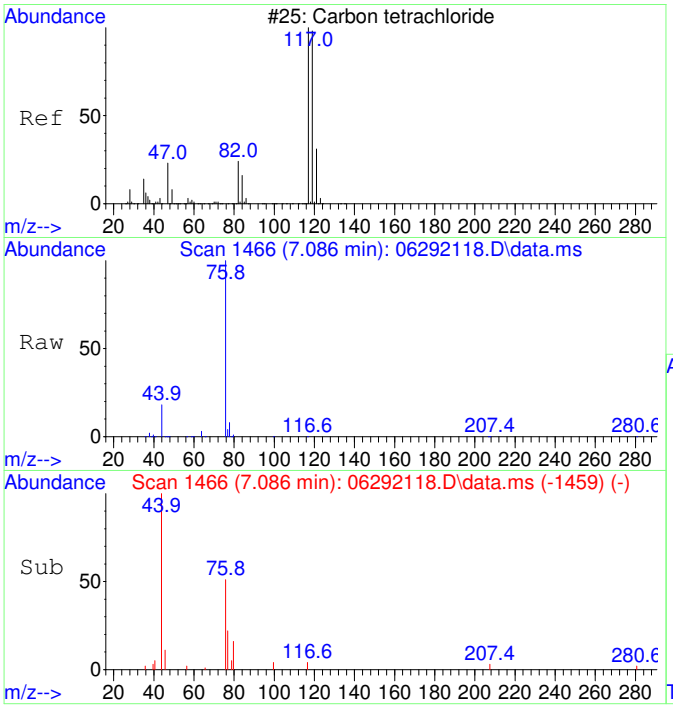


#31
1,1,1-Trichloroethane SCAN
Concen: 53.61 ug/L
RT: 6.855 min Scan# 1447
Delta R.T. 0.025 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 97 Resp: 251

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

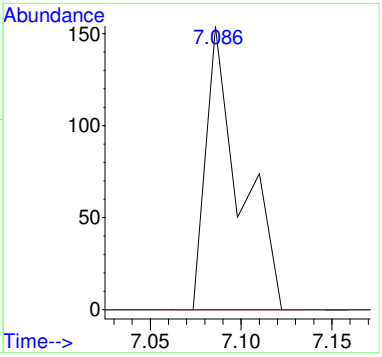


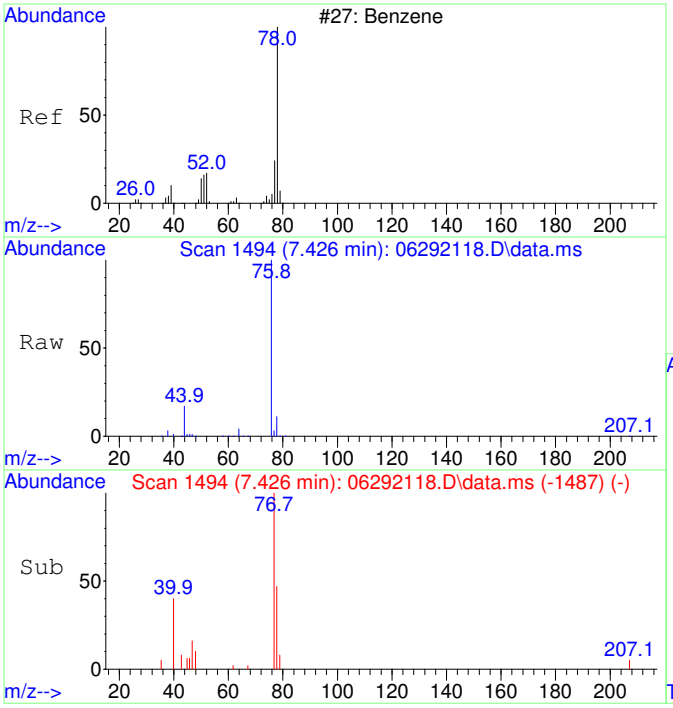


#32
Carbon tetrachloride SCAN
Concen: 52.54 ug/L
RT: 7.086 min Scan# 1466
Delta R.T. -0.012 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion:117 Resp: 203

Ion	Ratio	Lower	Upper
117	100		
119	0.0	68.0	128.0#
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

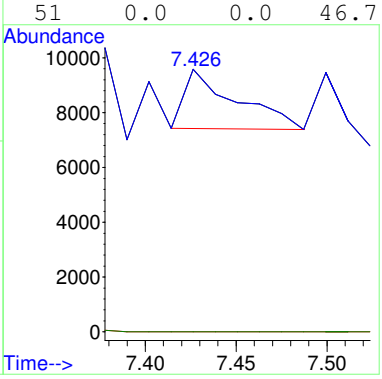


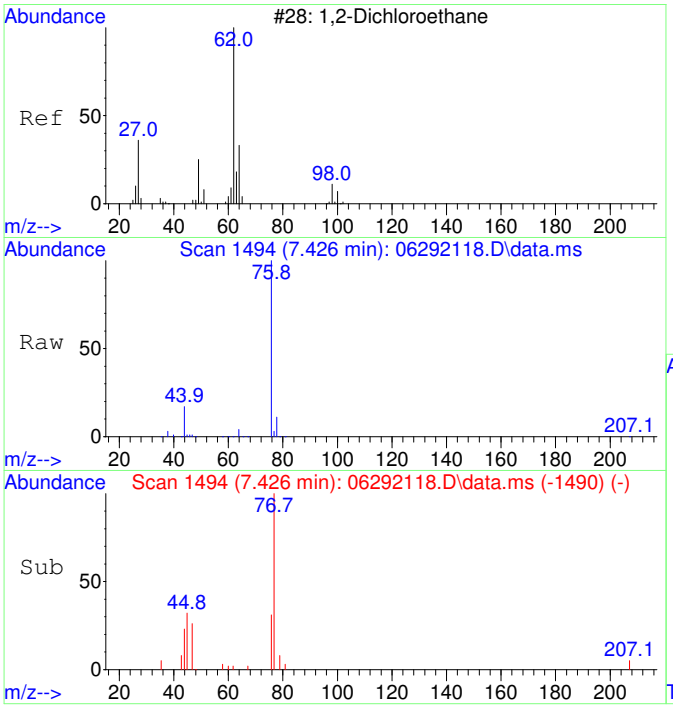


#33
Benzene SCAN
Concen: 362.47 ug/L
RT: 7.426 min Scan# 1494
Delta R.T. -0.012 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 78 Resp: 4261

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

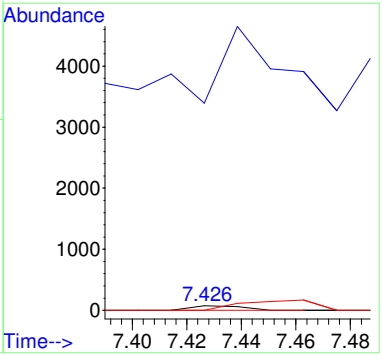


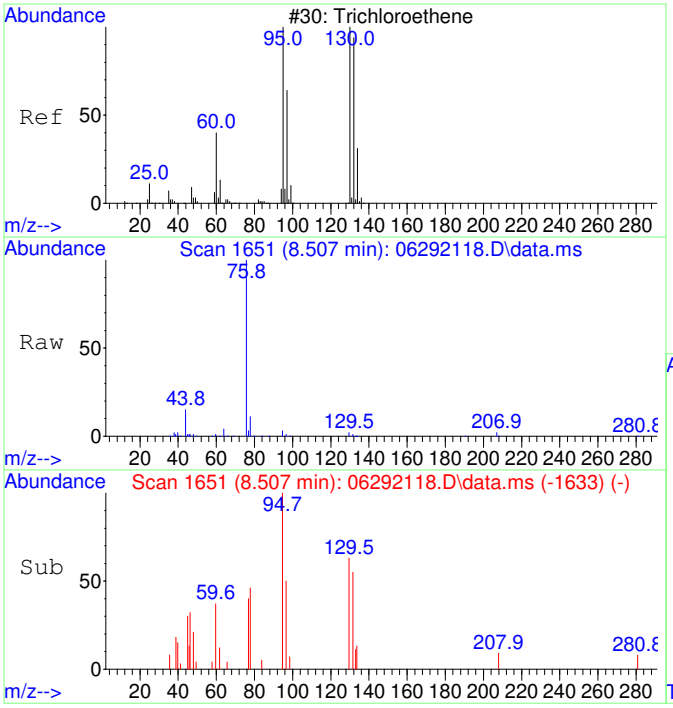


#34
1,2-Dichloroethane SCAN
Concen: 26.44 ug/L
RT: 7.426 min Scan# 1494
Delta R.T. -0.048 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 62 Resp: 98

Ion	Ratio	Lower	Upper
62	100		
64	1778.6	13.3	73.3#
49	0.0	4.1	64.1#

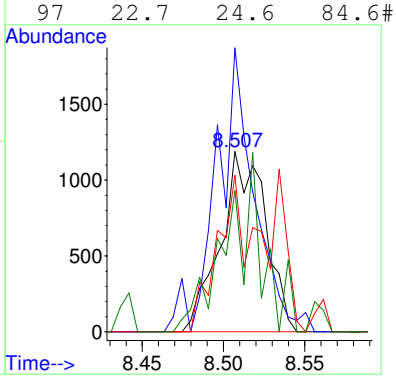


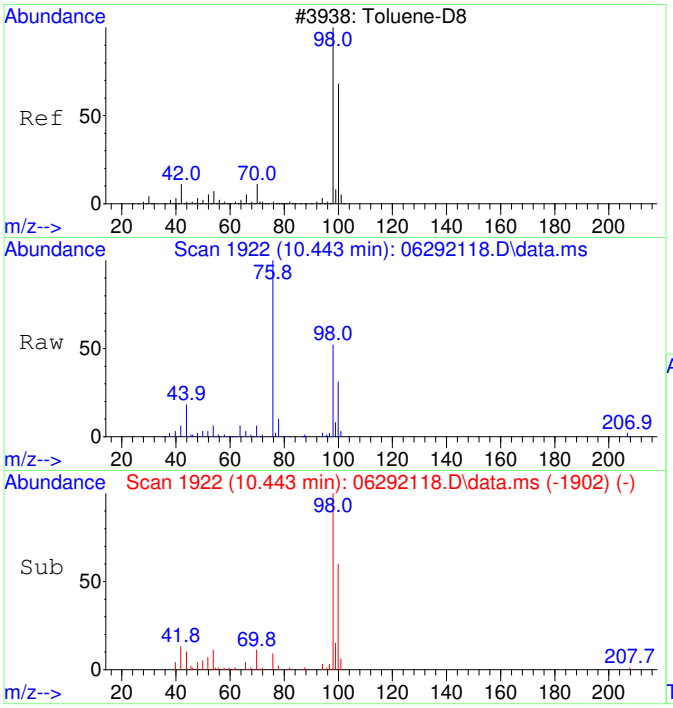


#35
Trichloroethene SCAN
Concen: 762.60 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion:130 Resp: 2285

Ion	Ratio	Lower	Upper
130	100		
95	132.9	60.0	120.0#
132	46.0	54.3	114.3#
97	22.7	24.6	84.6#

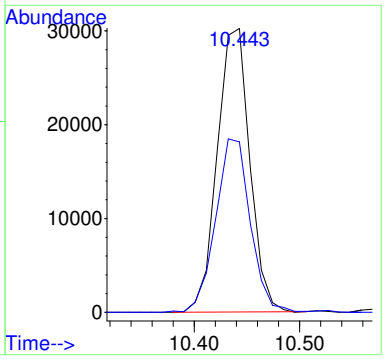


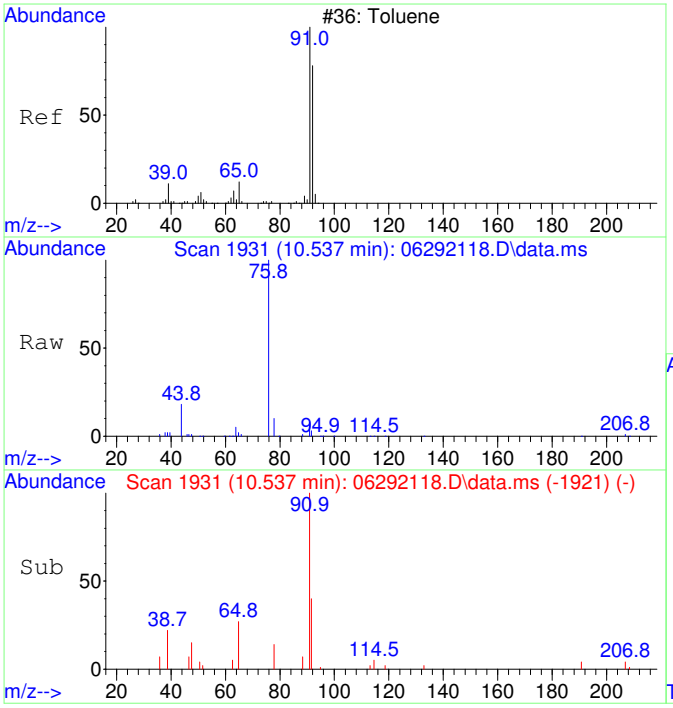


#36
Toluene-d8 SCAN
Concen: 4898.06 ug/L
RT: 10.443 min Scan# 1922
Delta R.T. 0.011 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 98 Resp: 65155

Ion	Ratio	Lower	Upper
98	100		
100	64.5	36.1	96.1

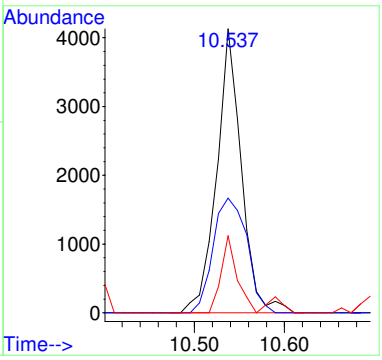


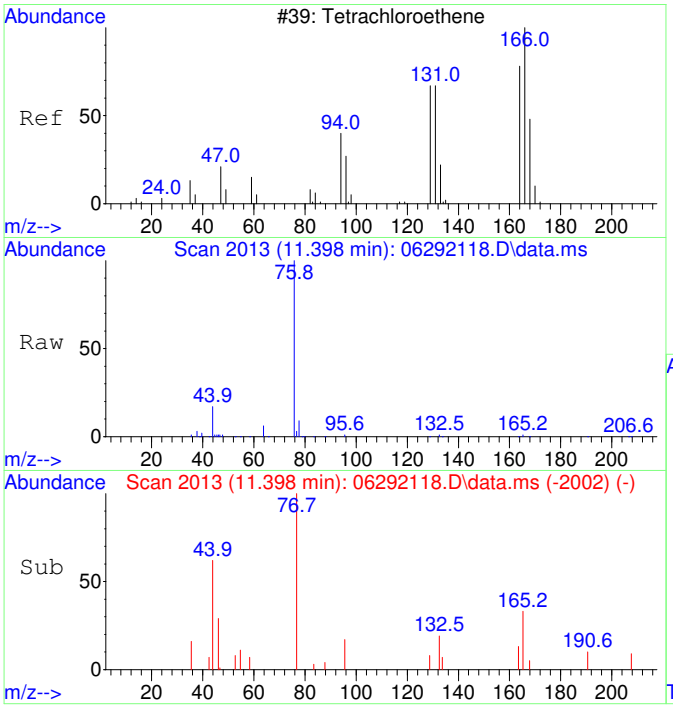


#37
Toluene SCAN
Concen: 458.51 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 91 Resp: 7894

Ion	Ratio	Lower	Upper
91	100		
92	55.1	26.5	86.5
65	17.5	0.0	40.6

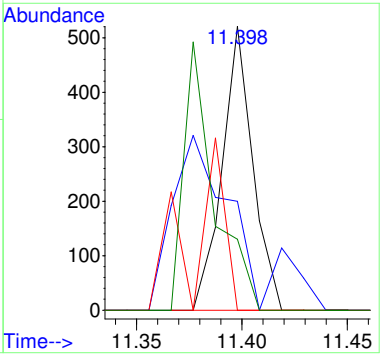


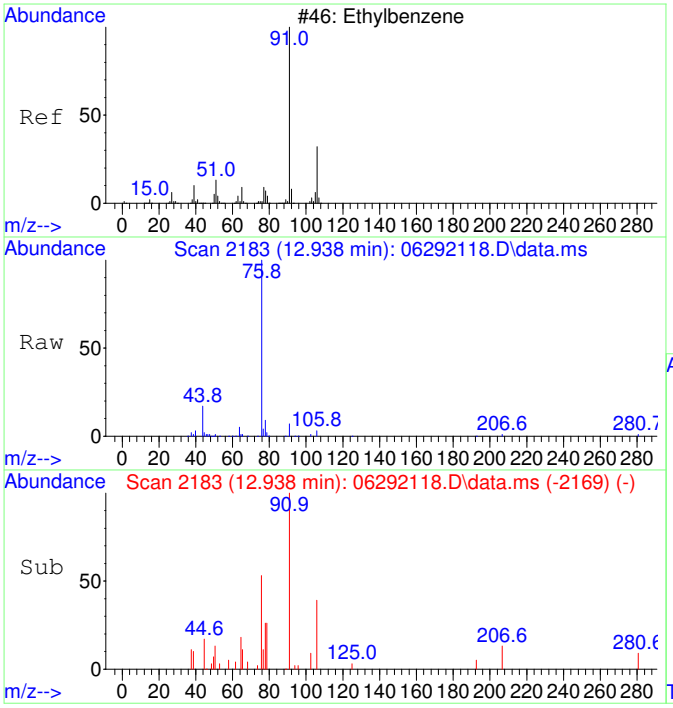


#39
Tetrachloroethene SCAN
Concen: 127.11 ug/L
RT: 11.398 min Scan# 2013
Delta R.T. 0.011 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion:166 Resp: 527

Ion	Ratio	Lower	Upper
166	100		
164	0.0	53.9	113.9#
131	0.0	45.6	105.6#
129	0.0	51.3	111.3#

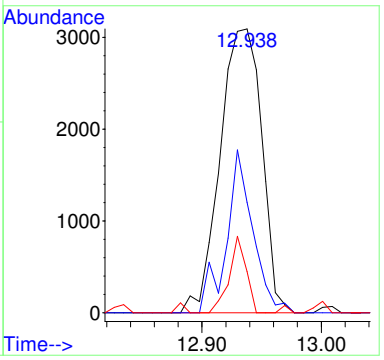


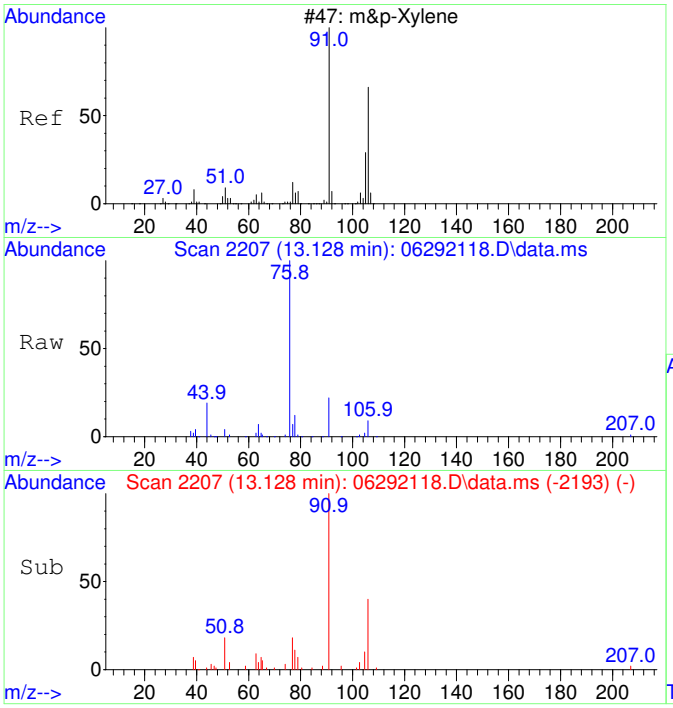


#42
Ethylbenzene SCAN
Concen: 327.97 ug/L
RT: 12.938 min Scan# 2183
Delta R.T. 0.008 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 91 Resp: 7527

Ion	Ratio	Lower	Upper
91	100		
106	36.6	0.5	60.5
51	10.9	0.0	39.6

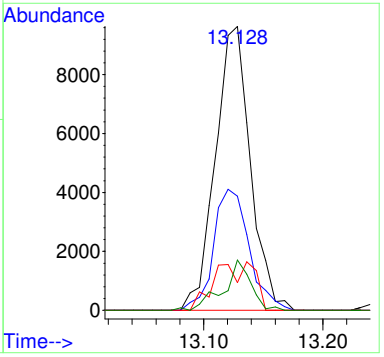


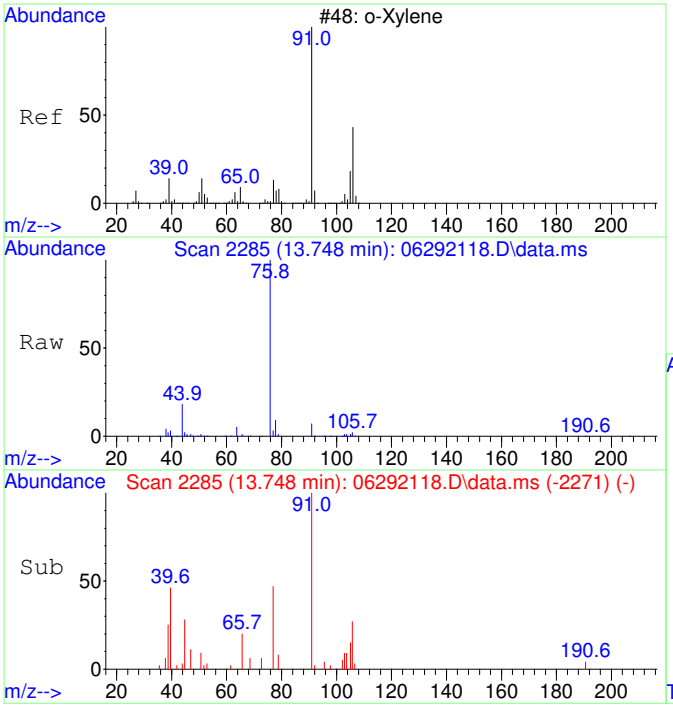


#43
m&p-Xylene SCAN
Concen: 576.19 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 91 Resp: 19728

Ion	Ratio	Lower	Upper
91	100		
106	43.2	21.2	81.2
105	19.6	0.0	51.6
51	13.8	0.0	41.7

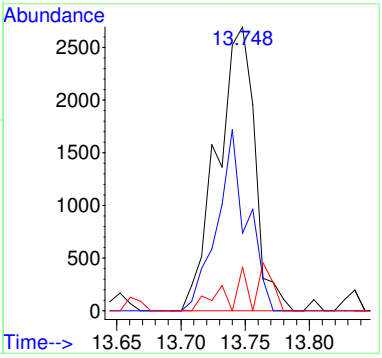




#44
o-Xylene SCAN
Concen: 292.54 ug/L
RT: 13.748 min Scan# 2285
Delta R.T. 0.008 min
Lab File: 06292118.D
Acq: 29 Jun 2021 15:55

Tgt Ion: 91 Resp: 5510

Ion	Ratio	Lower	Upper
91	100		
106	50.3	19.1	79.1
105	3.6	0.0	55.6



2106037-31

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292119.D
Acq On : 29 Jun 2021 16:21
InstName : AG5975C
Operator : TD
Sample : 2106037-31
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 06:07:01 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

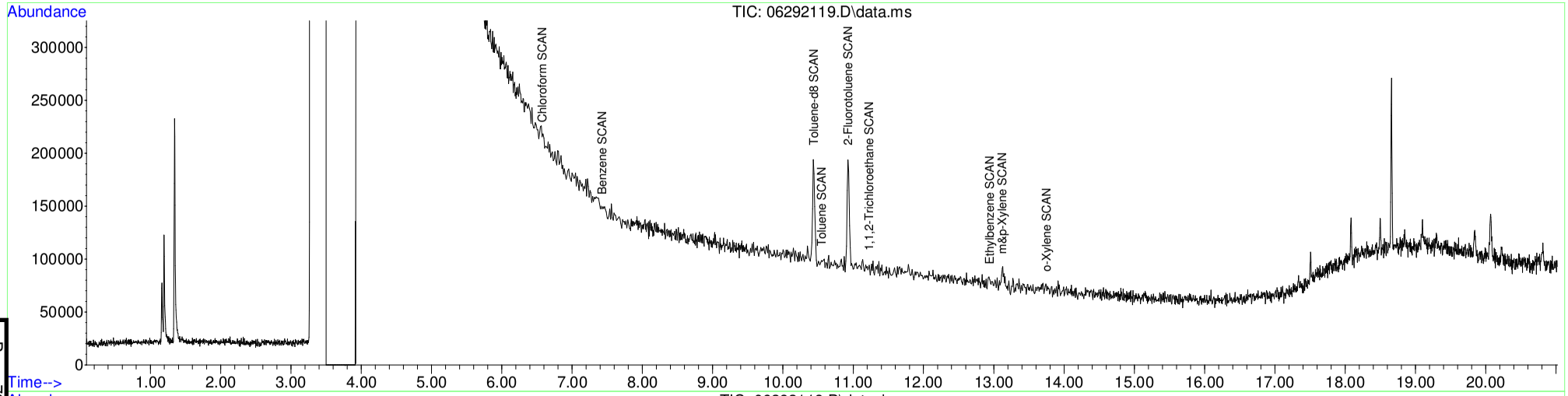
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	150943	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	130189	5035.30	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 100.71%			
Target Compounds						Qvalue
6] Chloroform	6.576	83	482	55.08	ug/L #	93
13] Toluene	10.528	91	992	29.48	ug/L	95
18] Ethylbenzene	12.931	91	6388	147.80	ug/L #	94
19] m&p-Xylene	13.121	91	18457	542.07	ug/L #	98
20] o-Xylene	13.741	91	4825	131.02	ug/L #	94
23] 1,2,4-Trimethylbenzene	15.838	105	1389	30.83	ug/L #	30
25) 2-Fluorotoluene SCAN	10.925	109	92587	4983.48	ug/L	96
30) Chloroform SCAN	6.575	83	234	38.55	ug/L #	1
33) Benzene SCAN	7.426	78	4489	315.24	ug/L #	90
36) Toluene-d8 SCAN	10.432	98	79956	4961.92	ug/L	93
37) Toluene SCAN	10.548	91	1051	50.39	ug/L #	31
38) 1,1,2-Trichloroethane ...	11.230	97	149	29.99	ug/L #	14
42) Ethylbenzene SCAN	12.937	91	4330	155.75	ug/L	95
43) m&p-Xylene SCAN	13.120	91	12016	289.71	ug/L	94
44) o-Xylene SCAN	13.748	91	3978	174.35	ug/L	69

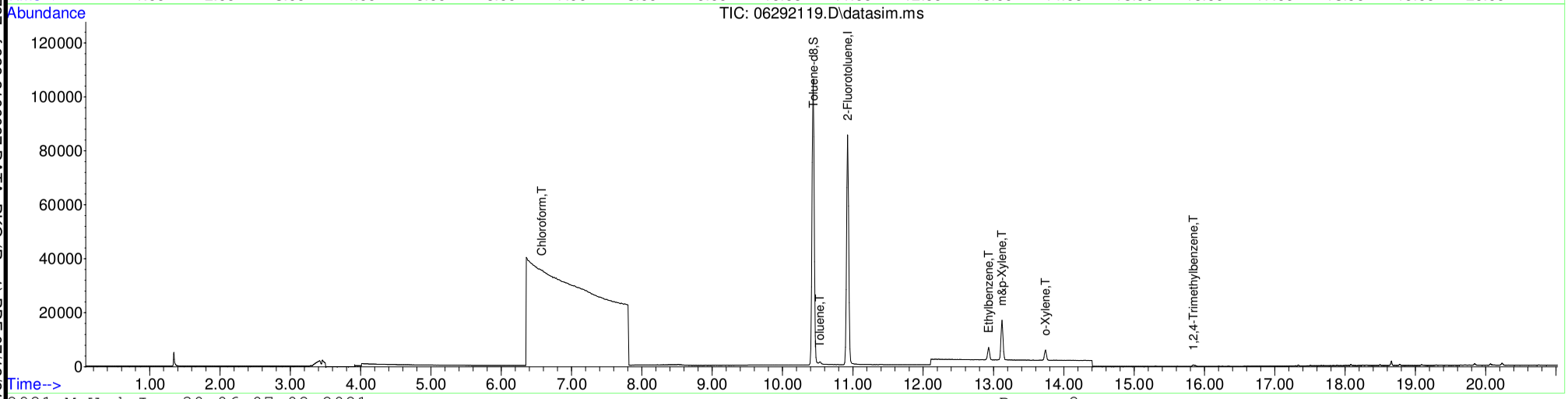
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292119.D
Acq On : 29 Jun 2021 16:21
InstName : AG5975C
Operator : TD
Sample : 2106037-31
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 30 06:07:01 2021
Quant Method : C:\msdchem\1\Ravioli Methods\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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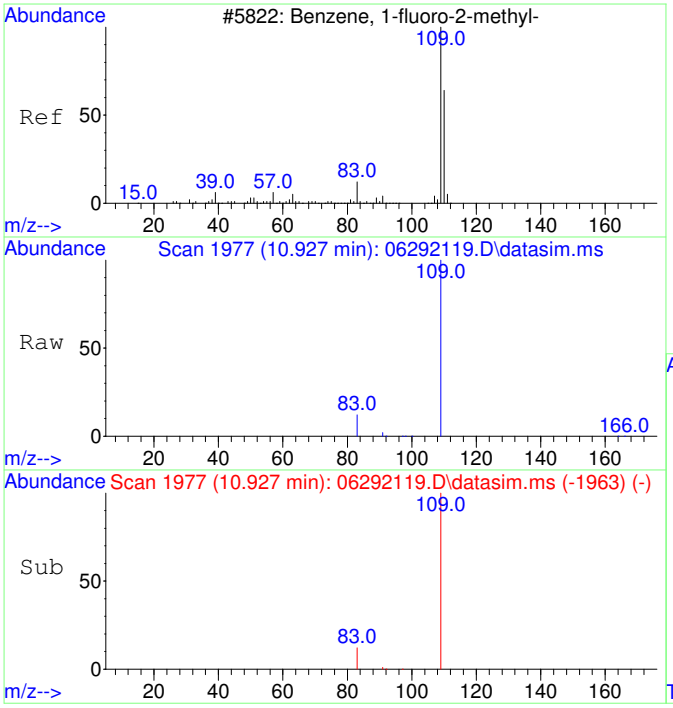
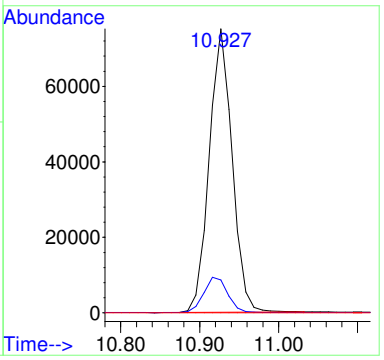
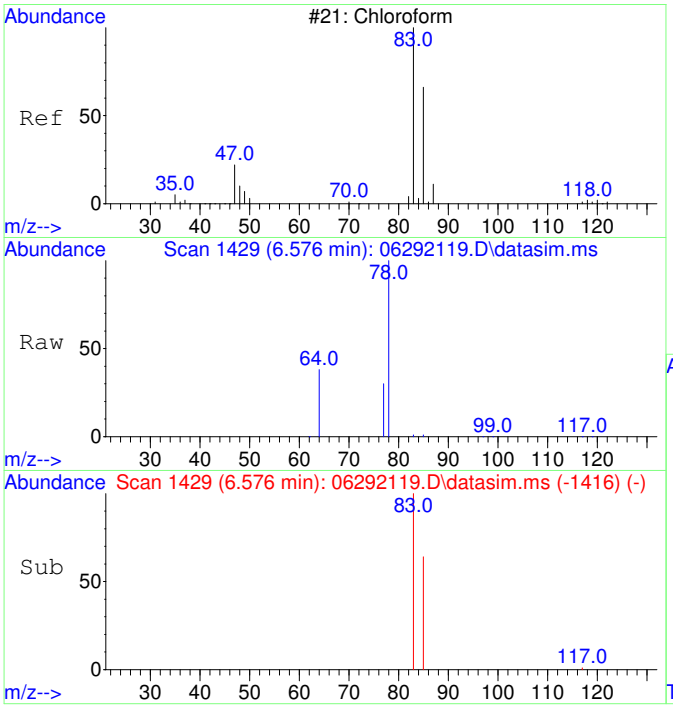


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion:109 Resp: 150943

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.7
110	0.0	0.0	20.0

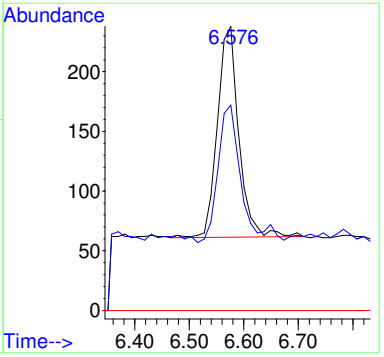


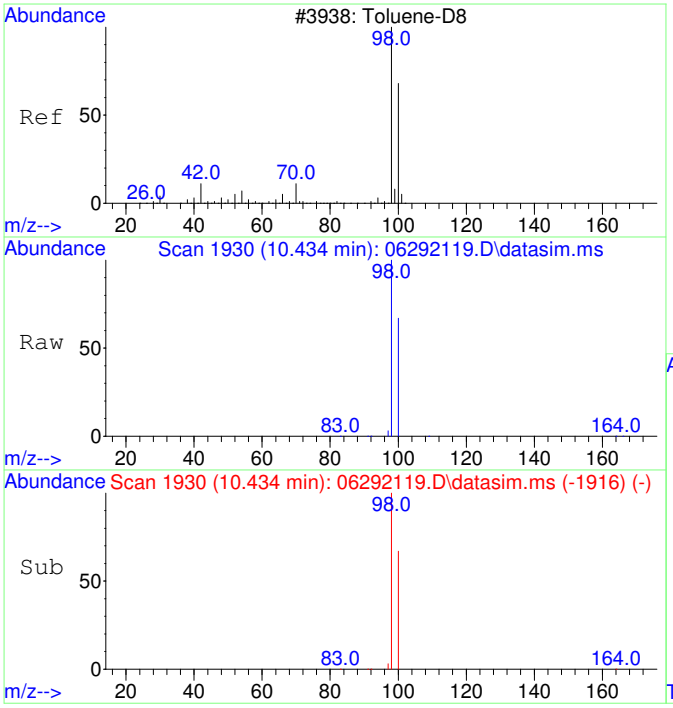


#6
Chloroform
Concen: 55.08 ug/L
RT: 6.576 min Scan# 1429
Delta R.T. 0.012 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 83 Resp: 482

Ion	Ratio	Lower	Upper
83	100		
85	70.3	34.5	94.5
87	0.0	0.0	20.0

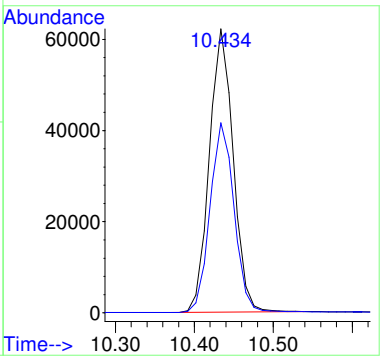


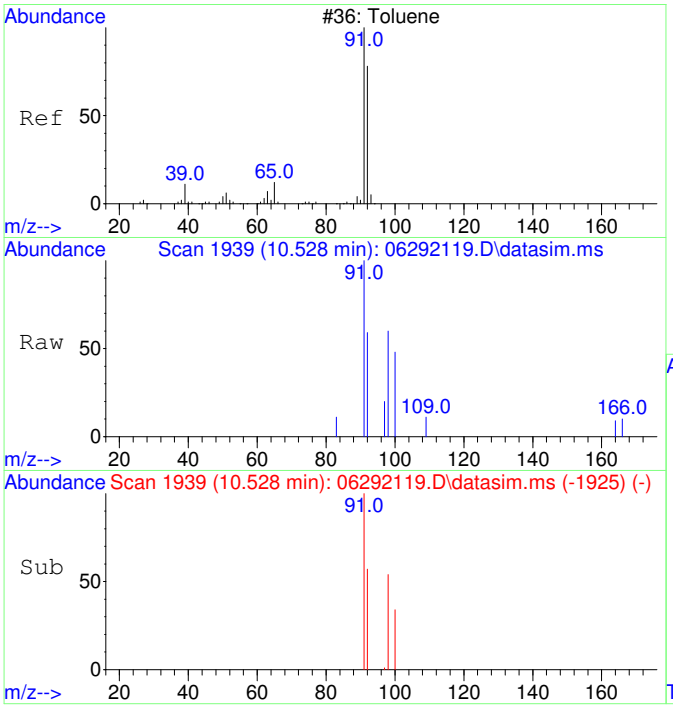


#12
Toluene-d8
Concen: 5035.30 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 98 Resp: 130189

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.3	97.3

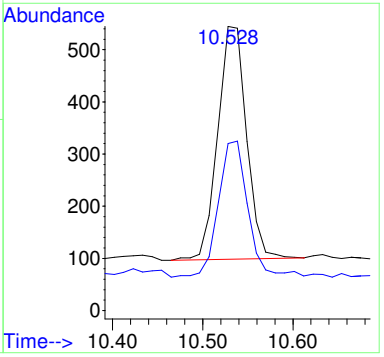


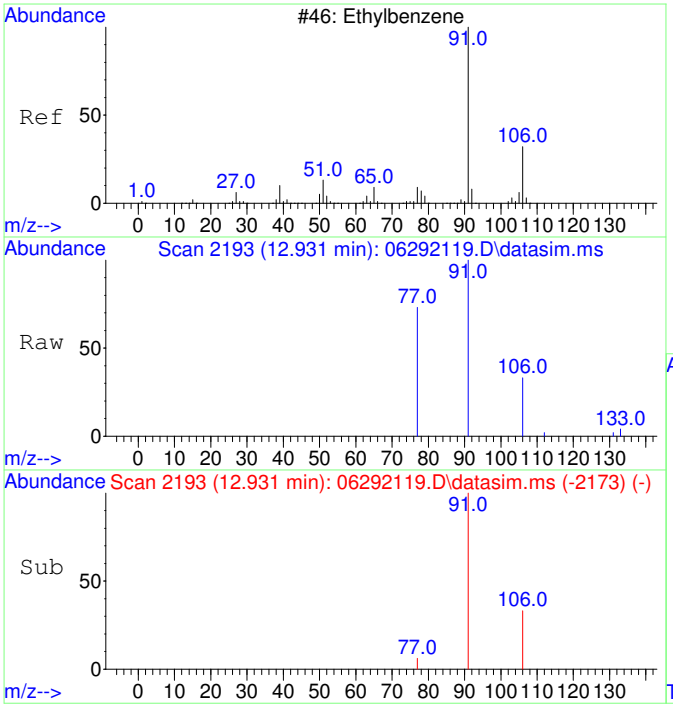


#13
Toluene
Concen: 29.48 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 91 Resp: 992

Ion	Ratio	Lower	Upper
91	100		
92	56.8	30.2	90.2

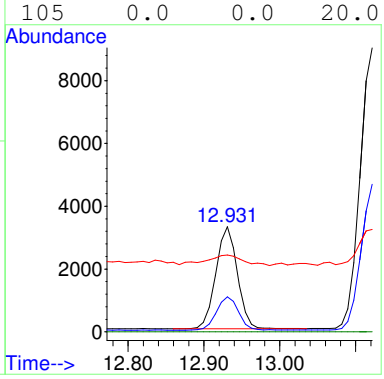


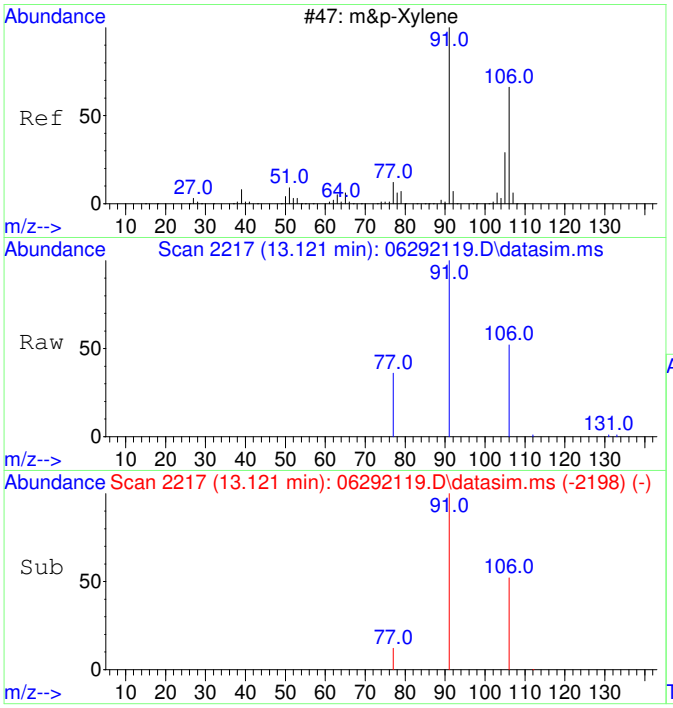


#18
Ethylbenzene
Concen: 147.80 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 91 Resp: 6388

Ion	Ratio	Lower	Upper
91	100		
106	33.4	2.8	62.8
77	17.1	0.0	38.2
105	0.0	0.0	20.0

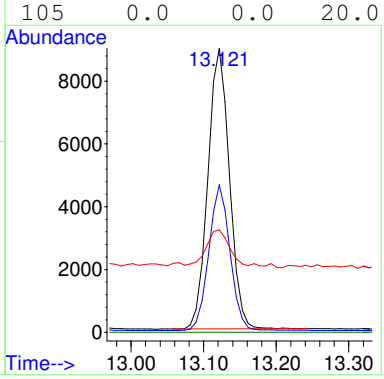


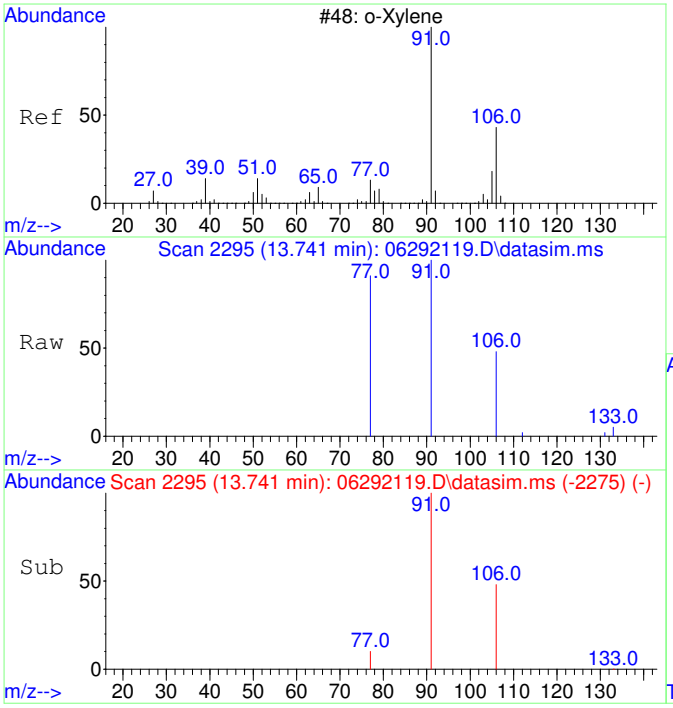


#19
m&p-Xylene
Concen: 542.07 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 91 Resp: 18457

Ion	Ratio	Lower	Upper
91	100		
106	50.9	21.4	81.4
77	15.7	0.0	42.7
105	0.0	0.0	20.0

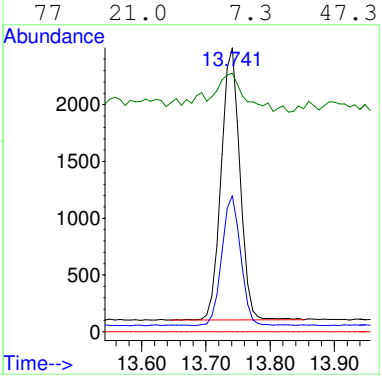


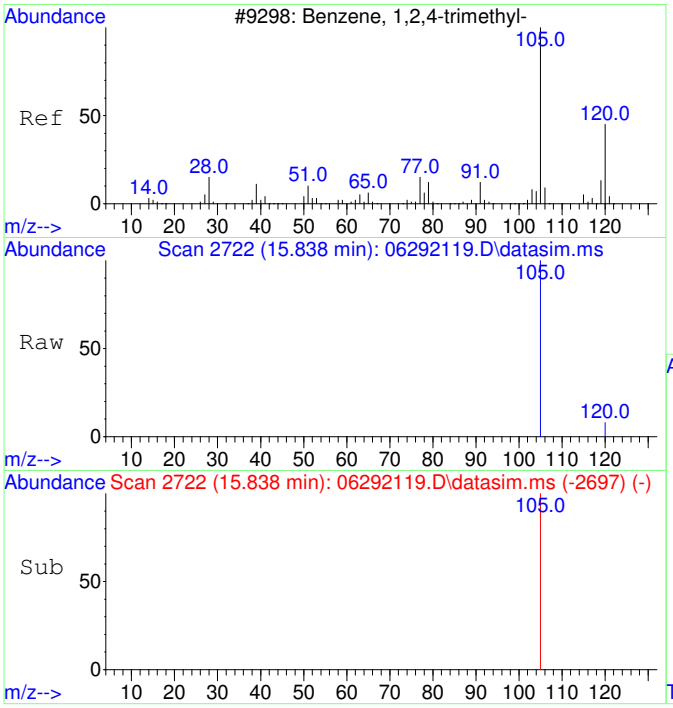


#20
o-Xylene
Concen: 131.02 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 91 Resp: 4825

Ion	Ratio	Lower	Upper
91	100		
106	47.4	18.7	78.7
105	0.0	0.0	30.0
77	21.0	7.3	47.3

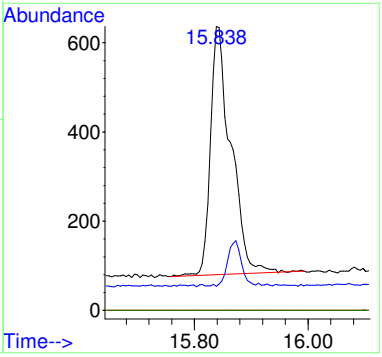


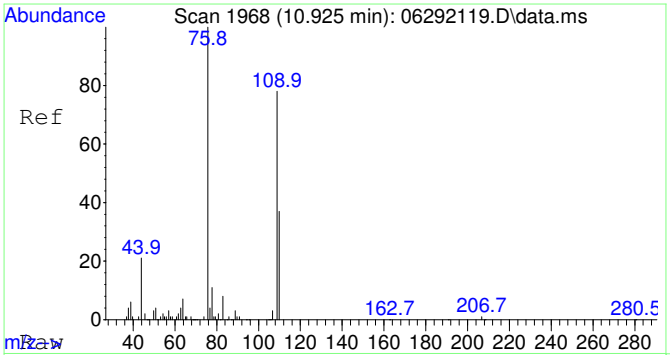


#23
1,2,4-Trimethylbenzene
Concen: 30.83 ug/L
RT: 15.838 min Scan# 2722
Delta R.T. -0.025 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion:105 Resp: 1389

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.0	76.0#
77	0.0	0.0	20.0
91	0.0	0.0	20.0

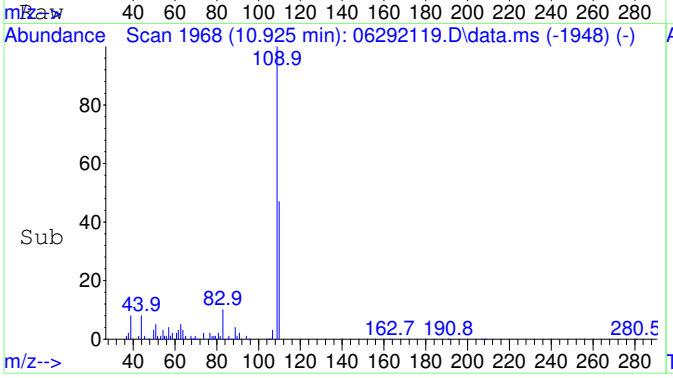


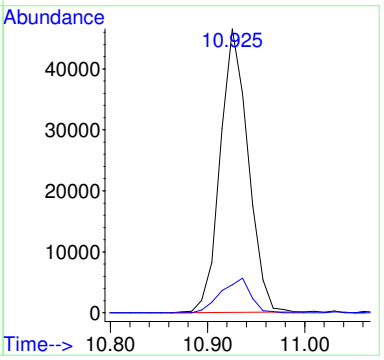


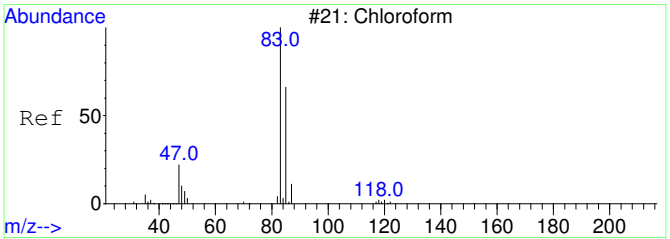
#25
2-Fluorotoluene SCAN
Concen: 4983.48 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion:109 Resp: 92587

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	44.5



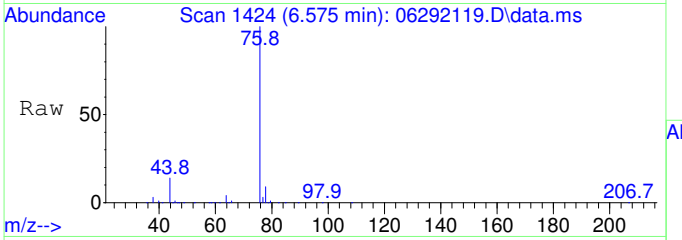


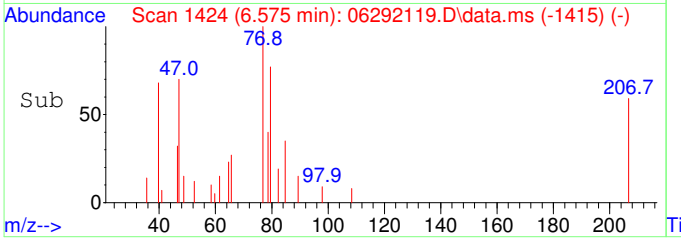


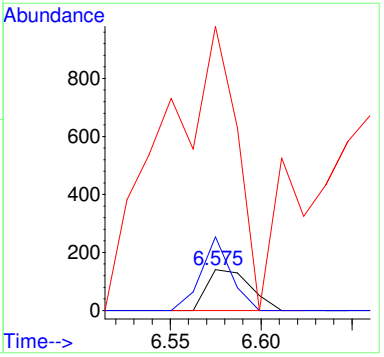
#30
Chloroform SCAN
Concen: 38.55 ug/L
RT: 6.575 min Scan# 1424
Delta R.T. 0.012 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

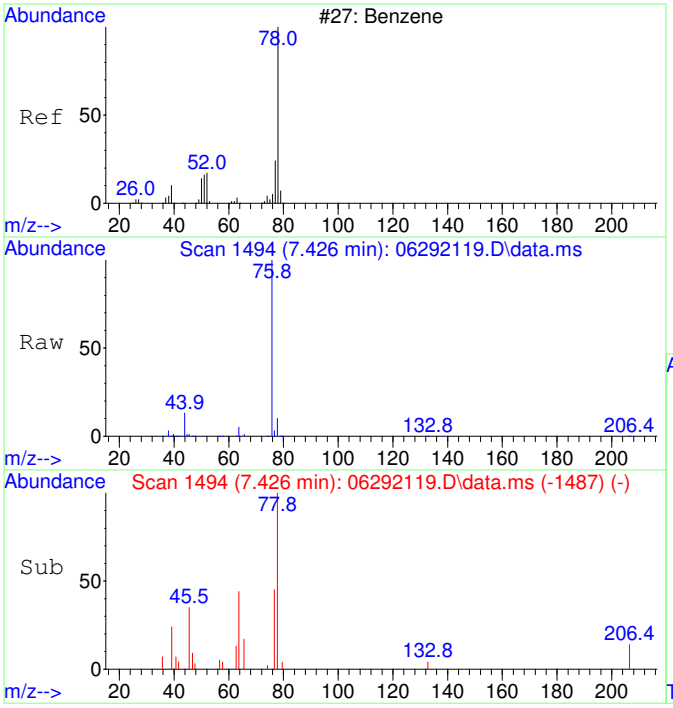
Tgt Ion: 83 Resp: 234

Ion	Ratio	Lower	Upper
83	100		
85	123.5	27.1	87.1#
47	1189.7	7.5	67.5#





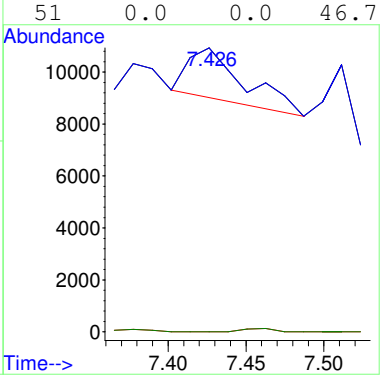


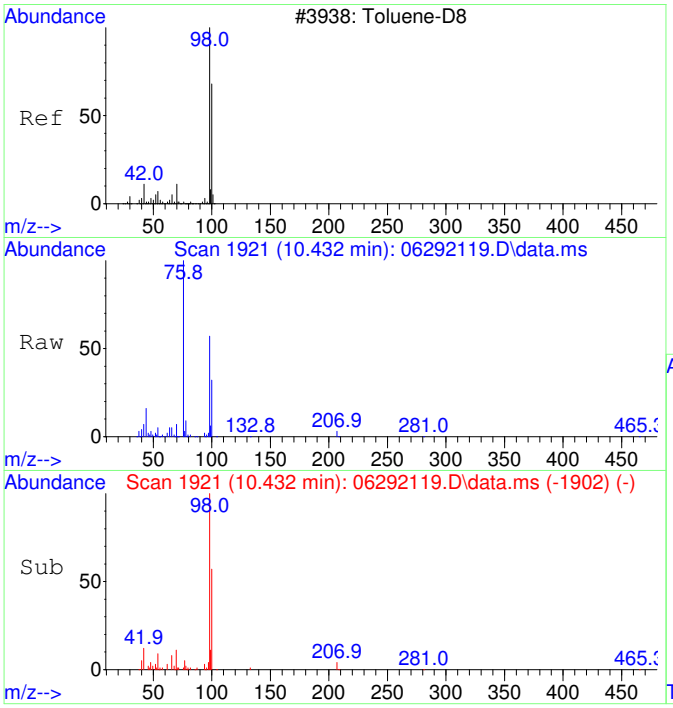


#33
Benzene SCAN
Concen: 315.24 ug/L
RT: 7.426 min Scan# 1494
Delta R.T. -0.012 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 78 Resp: 4489

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

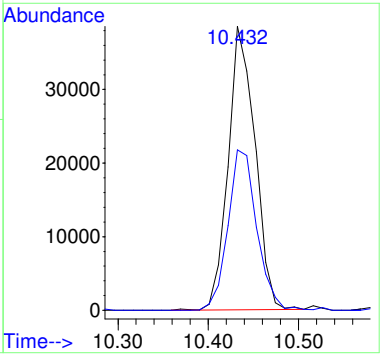


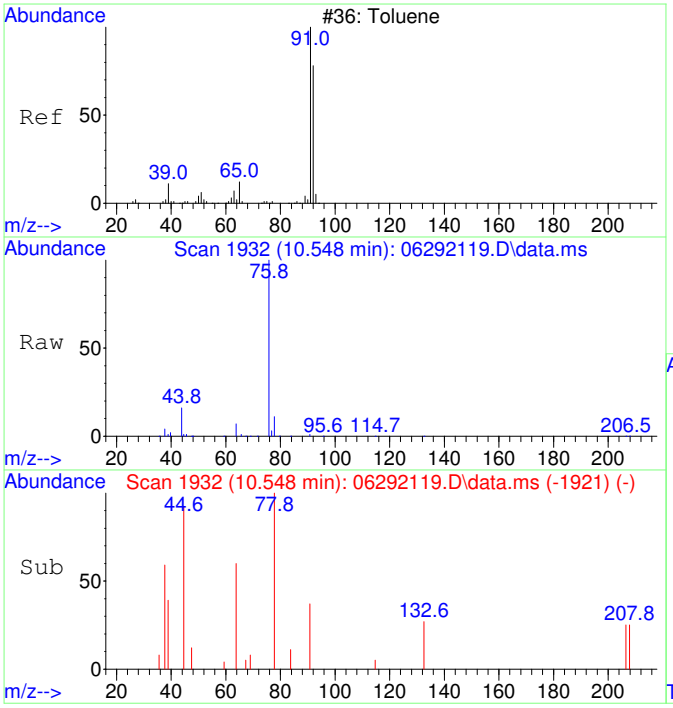


#36
Toluene-d8 SCAN
Concen: 4961.92 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 98 Resp: 79956

Ion	Ratio	Lower	Upper
98	100		
100	60.6	36.1	96.1

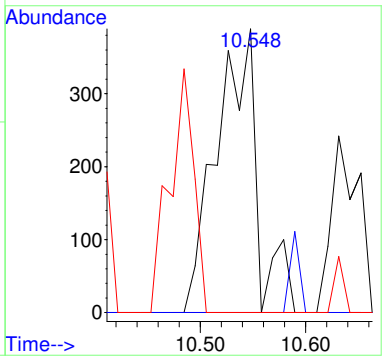


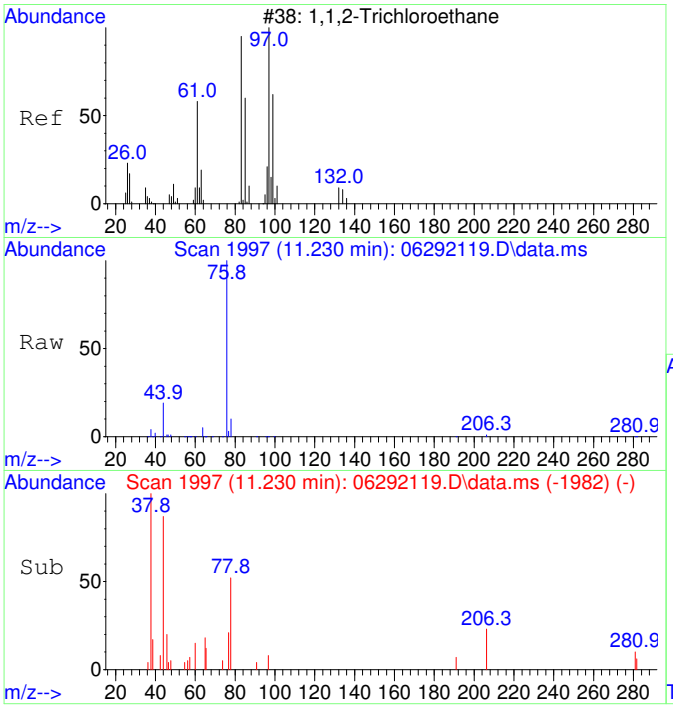


#37
Toluene SCAN
Concen: 50.39 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 91 Resp: 1051

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.5	86.5#
65	0.0	0.0	40.6

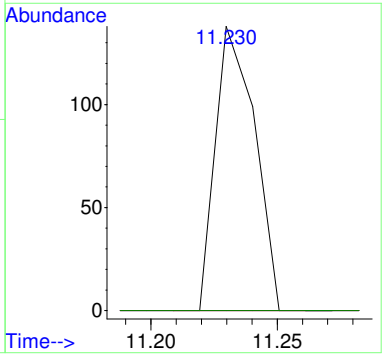


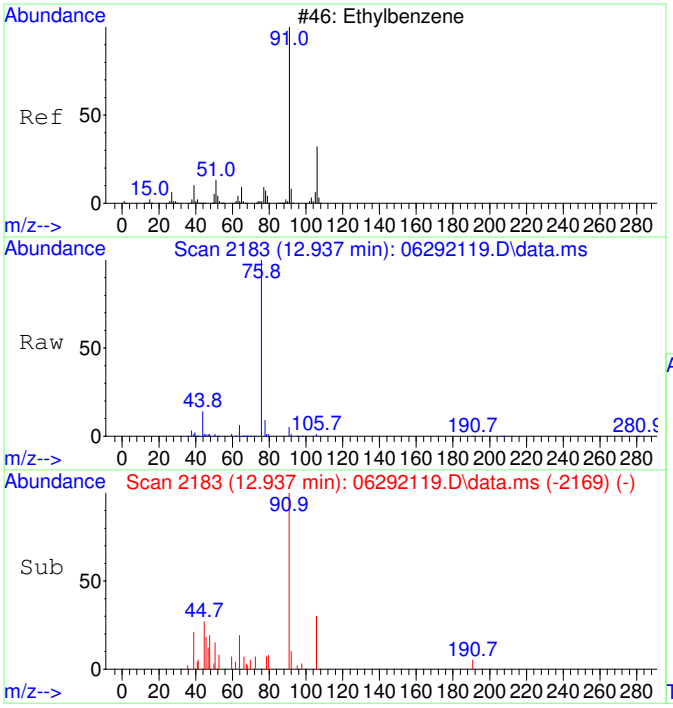


#38
1,1,2-Trichloroethane SCAN
Concen: 29.99 ug/L
RT: 11.230 min Scan# 1997
Delta R.T. 0.053 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 97 Resp: 149

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

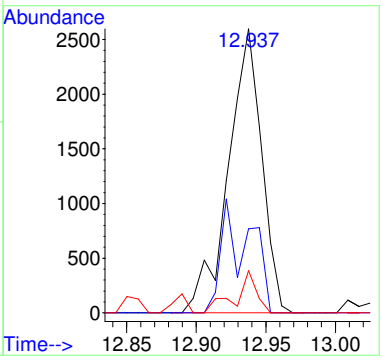


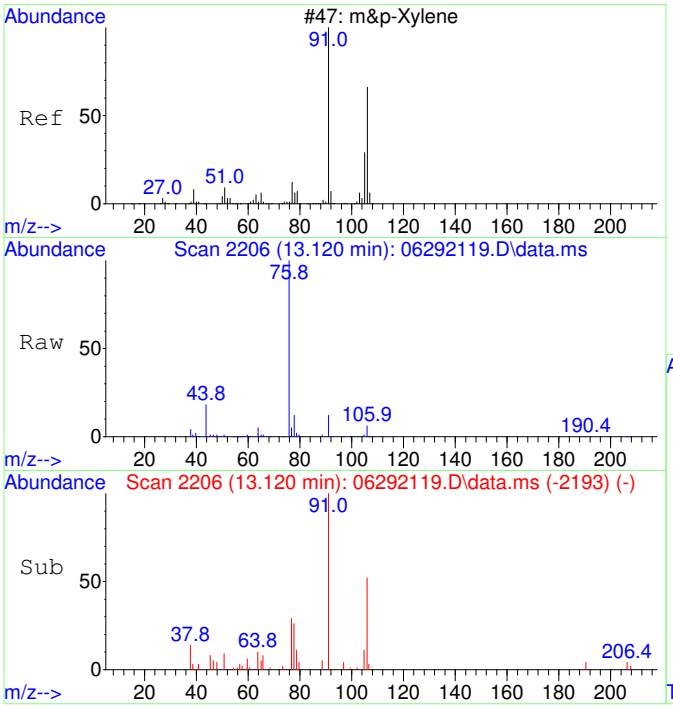


#42
Ethylbenzene SCAN
Concen: 155.75 ug/L
RT: 12.937 min Scan# 2183
Delta R.T. 0.008 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 91 Resp: 4330

Ion	Ratio	Lower	Upper
91	100		
106	34.1	0.5	60.5
51	9.2	0.0	39.6

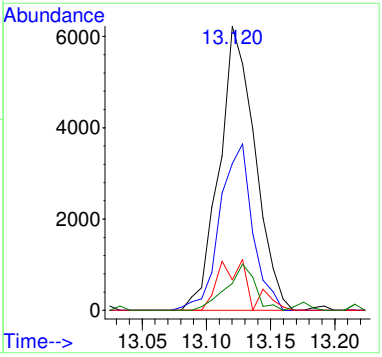


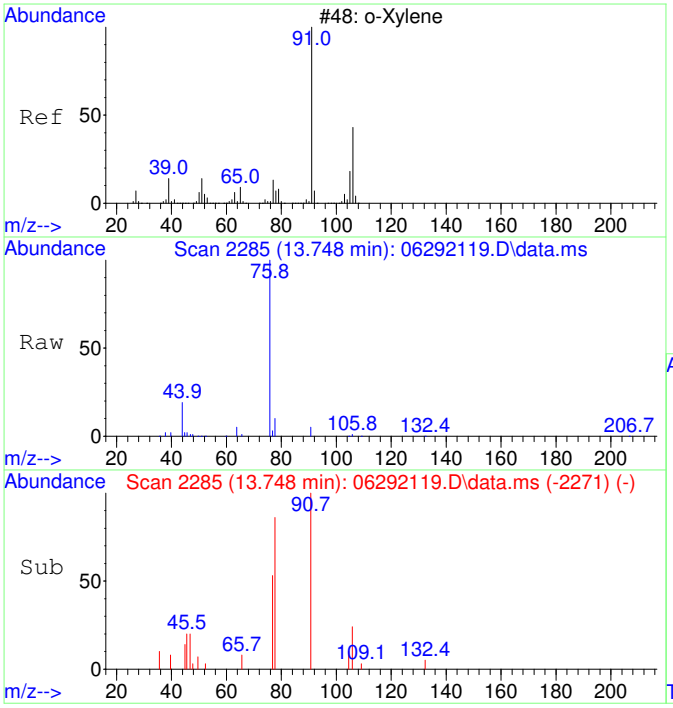


#43
m&p-Xylene SCAN
Concen: 289.71 ug/L
RT: 13.120 min Scan# 2206
Delta R.T. 0.000 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 91 Resp: 12016

Ion	Ratio	Lower	Upper
91	100		
106	53.6	21.2	81.2
105	15.7	0.0	51.6
51	12.9	0.0	41.7

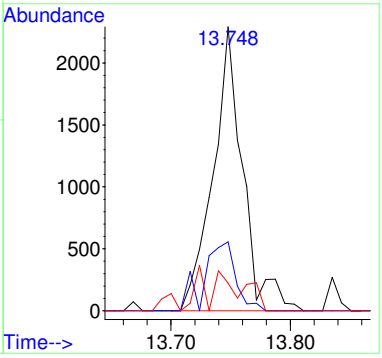




#44
o-Xylene SCAN
Concen: 174.35 ug/L
RT: 13.748 min Scan# 2285
Delta R.T. 0.008 min
Lab File: 06292119.D
Acq: 29 Jun 2021 16:21

Tgt Ion: 91 Resp: 3978

Ion	Ratio	Lower	Upper
91	100		
106	25.7	19.1	79.1
105	13.0	0.0	55.6



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 21176E
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2104012
Sequence: S21F068

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
B21F073-MRL1	1,1-Dichloroethene	0.131	0.135	103	ug/m³ Air	50 - 150
	trans-1,2-Dichloroethene	0.160	0.196	122	ug/m³ Air	50 - 150
	1,1-Dichloroethane	0.157	0.166	105	ug/m³ Air	50 - 150
	cis-1,2-Dichloroethene	0.160	0.176	110	ug/m³ Air	50 - 150
	Chloroform	0.132	0.138	104	ug/m³ Air	50 - 150
	Trichloroethene	0.144	0.165	115	ug/m³ Air	50 - 150
	Tetrachloroethene	0.168	0.195	116	ug/m³ Air	50 - 150
	Toluene-d8	992	1010	102	ug/m³ Air	86 - 118

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282108.D
Acq On : 28 Jun 2021 12:02
InstName : AG5975C
Operator : TD
Sample : B21F073-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 28 13:54:27 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

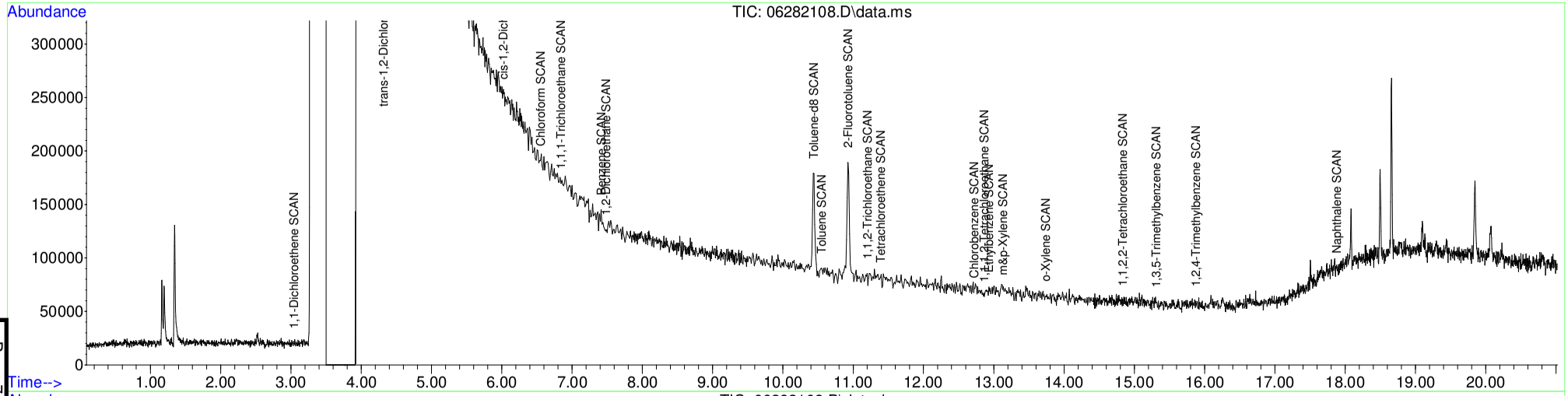
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	152752	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	132889	5078.86 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.58%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	343	51.55 ug/L #	98
3] trans-1,2-Dichloroethene	4.221	61	350	61.13 ug/L #	94
4] 1,1-Dichloroethane	4.964	63	413	52.59 ug/L #	72
5] cis-1,2-Dichloroethene	5.992	61	415	55.15 ug/L #	98
6] Chloroform	6.564	83	461	52.06 ug/L #	94
7] 1,1,1-Trichloroethane	6.831	97	436	52.91 ug/L #	85
8] Carbon tetrachloride	7.099	117	392	54.61 ug/L #	85
9] Benzene	7.428	78	1440	57.88 ug/L #	62
10] 1,2-Dichloroethane	7.476	62	404	59.04 ug/L #	43
11] Trichloroethene	8.514	130	380	57.36 ug/L	95
13] Toluene	10.528	91	2029	59.57 ug/L	100
14] 1,1,2-Trichloroethane	11.189	97	384	54.20 ug/L #	88
15] Tetrachloroethene	11.389	166	504	57.85 ug/L #	94
16] Chlorobenzene	12.724	112	1424	48.28 ug/L #	57
17] 1,1,1,2-Tetrachloroethane	12.875	131	458	58.36 ug/L #	99
18] Ethylbenzene	12.931	91	2828	64.65 ug/L #	97
19] m&p-Xylene	13.121	91	4565	132.48 ug/L #	98
20] o-Xylene	13.741	91	2220	59.57 ug/L #	99
21] 1,1,2,2-Tetrachloroethane	14.838	83	831	51.17 ug/L #	99
22] 1,3,5-Trimethylbenzene	15.307	105	2841	64.91 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	3199	70.17 ug/L #	100
24] Naphthalene	17.883	128	2302	27.03 ug/L #	95
25) 2-Fluorotoluene SCAN	10.925	109	88617	4713.31 ug/L	100
26) 1,1-Dichloroethene SCAN	3.044	61	97	24.43 ug/L #	1
27) trans-1,2-Dichloroethe...	4.319	61	217	50.51 ug/L	68
29) cis-1,2-Dichloroethene...	6.017	61	523	90.04 ug/L #	7
30) Chloroform SCAN	6.550	83	482	78.46 ug/L #	1
31) 1,1,1-Trichloroethane ...	6.842	97	317	55.23 ug/L #	15
33) Benzene SCAN	7.414	78	5366	372.36 ug/L	91
34) 1,2-Dichloroethane SCAN	7.487	62	417	91.78 ug/L #	36
36) Toluene-d8 SCAN	10.432	98	74045	4540.68 ug/L	97
37) Toluene SCAN	10.548	91	1331	63.06 ug/L #	60
38) 1,1,2-Trichloroethane ...	11.198	97	692	137.64 ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	203	39.94 ug/L #	31
40) Chlorobenzene SCAN	12.715	112	709	45.06 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.866	131	257	55.01 ug/L #	49
42) Ethylbenzene SCAN	12.930	91	2201	78.23 ug/L	91
43) m&p-Xylene SCAN	13.128	91	3026	72.09 ug/L #	87
44) o-Xylene SCAN	13.740	91	1537	66.57 ug/L	68
45) 1,1,2,2-Tetrachloroeth...	14.837	83	657	58.21 ug/L #	48
46) 1,3,5-Trimethylbenzene...	15.306	105	1551	61.19 ug/L #	77
47) 1,2,4-Trimethylbenzene...	15.872	105	2173	82.78 ug/L #	39
48) Naphthalene SCAN	17.881	128	1621	33.87 ug/L	90

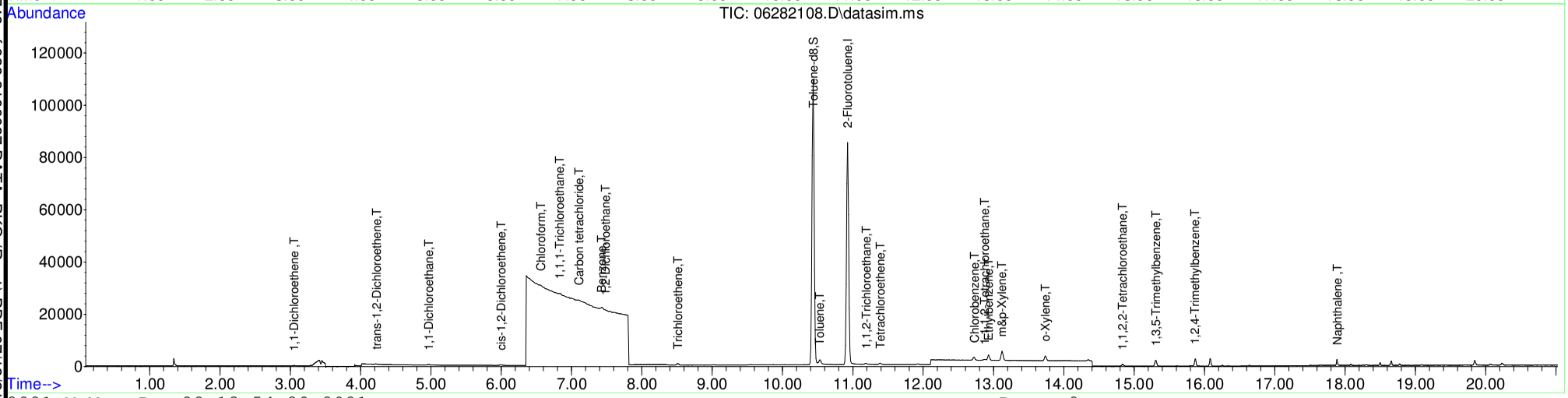
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282108.D
Acq On : 28 Jun 2021 12:02
InstName : AG5975C
Operator : TD
Sample : B21F073-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 28 13:54:27 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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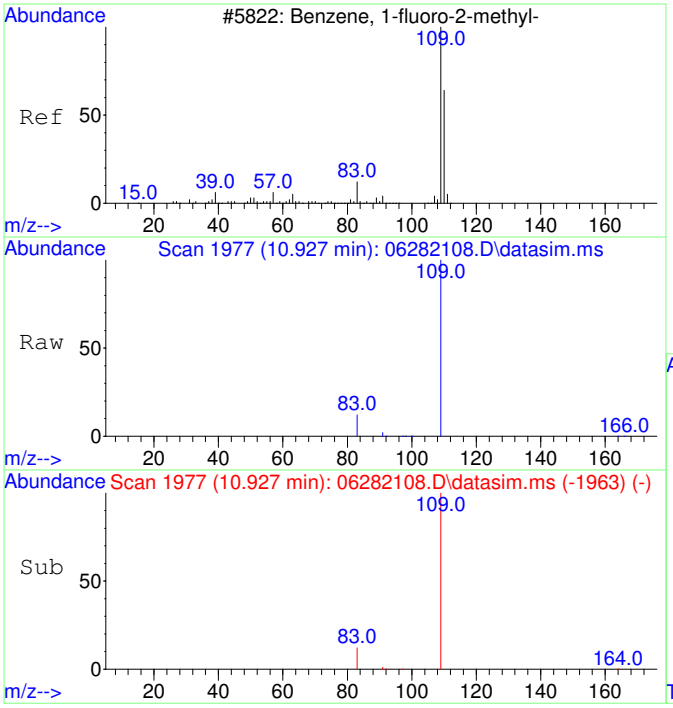
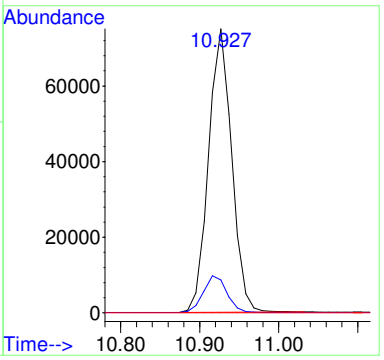
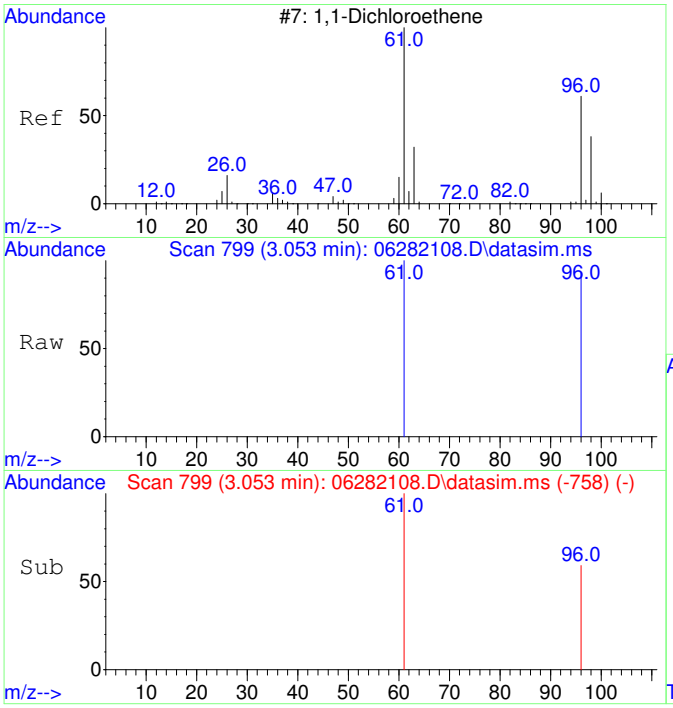


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:109 Resp: 152752

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

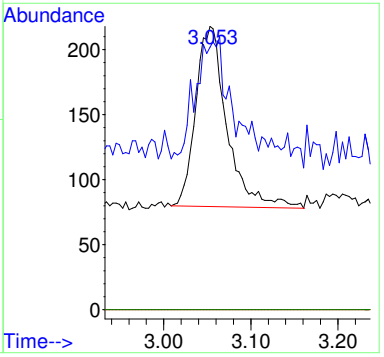


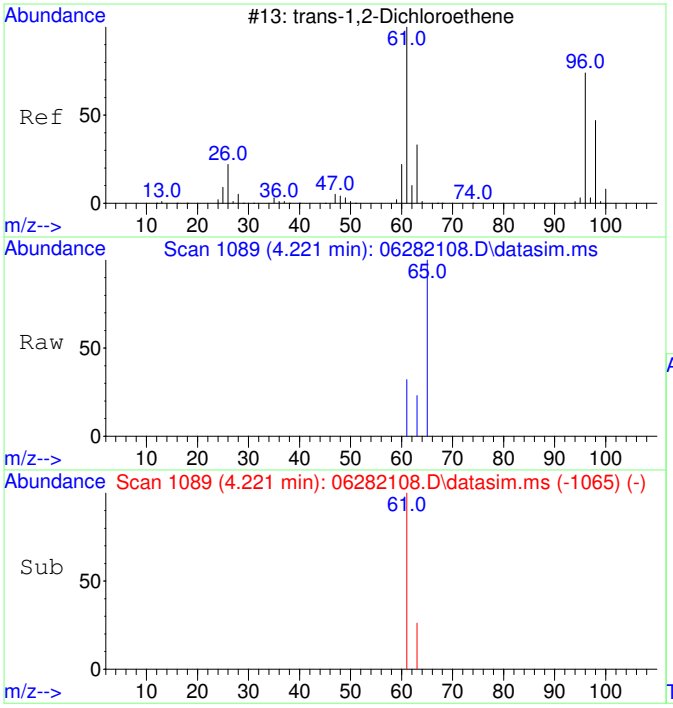


#2
1,1-Dichloroethene
Concen: 51.55 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 343

Ion	Ratio	Lower	Upper
61	100		
96	66.5	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

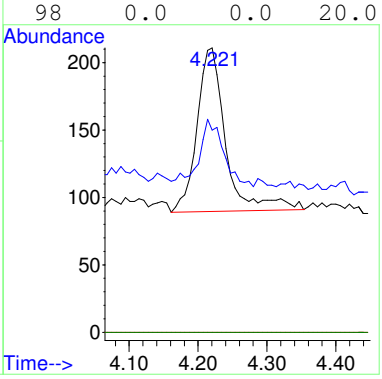


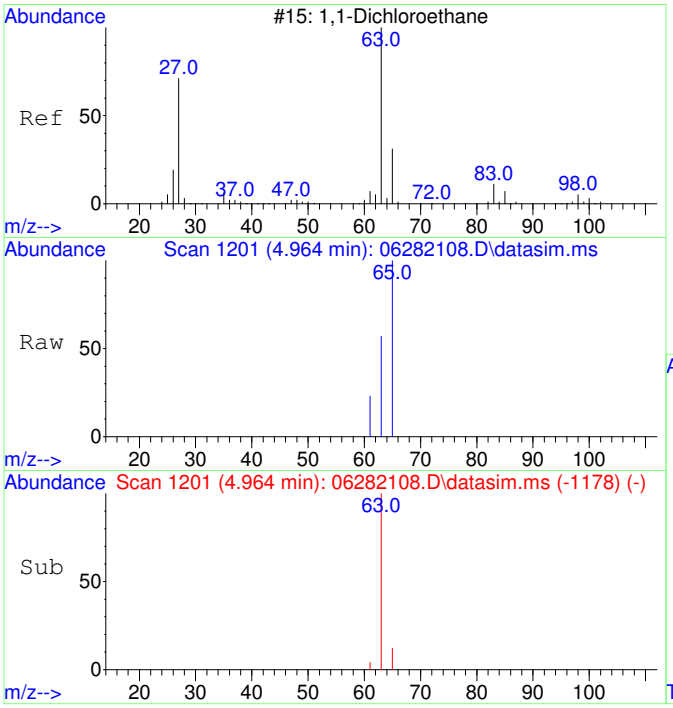


#3
trans-1,2-Dichloroethene
Concen: 61.13 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 350

Ion	Ratio	Lower	Upper
61	100		
63	35.7	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

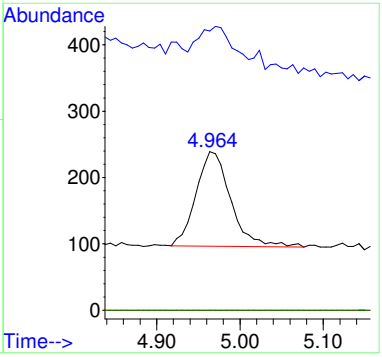


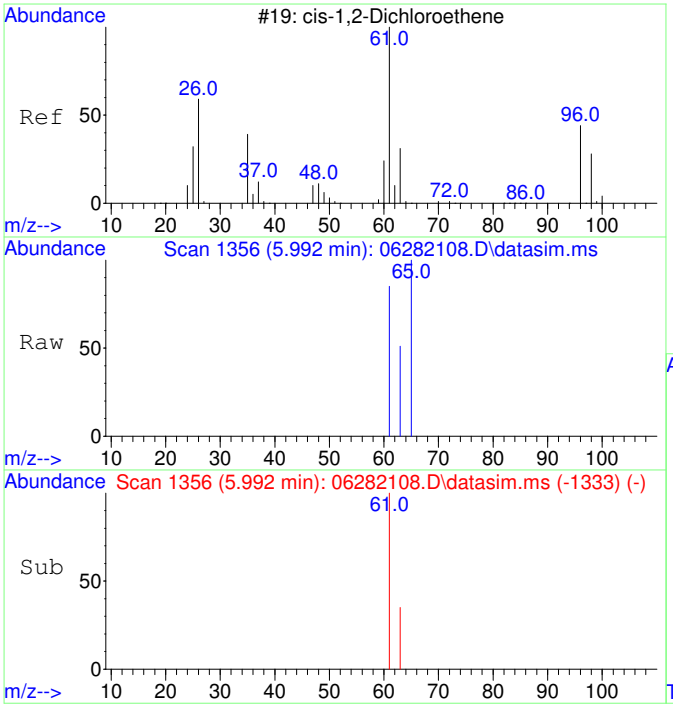


#4
1,1-Dichloroethane
Concen: 52.59 ug/L
RT: 4.964 min Scan# 1201
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 63 Resp: 413

Ion	Ratio	Lower	Upper
63	100		
65	46.5	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

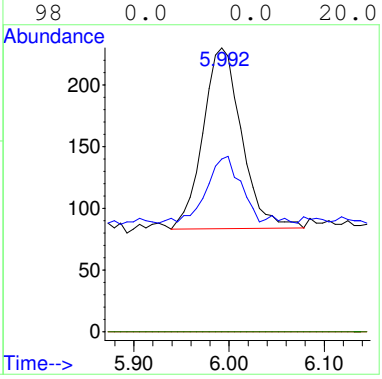


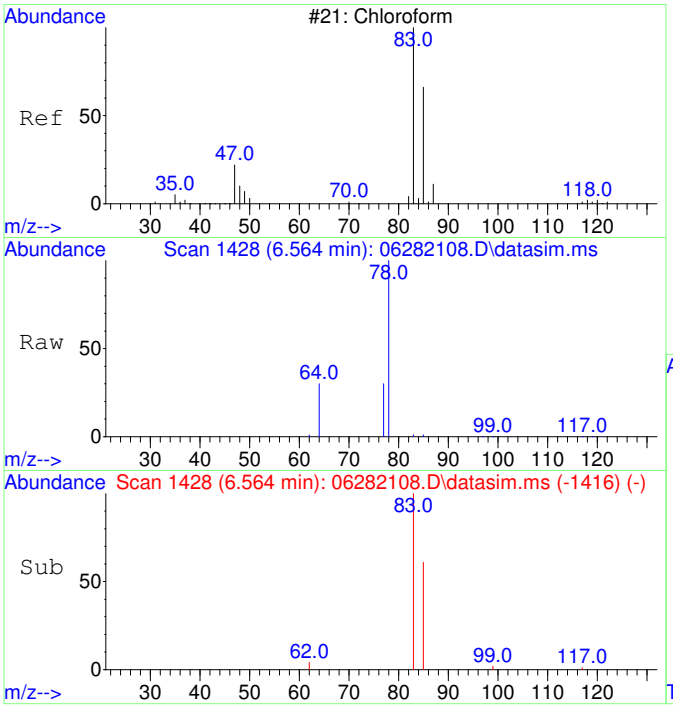


#5
cis-1,2-Dichloroethene
Concen: 55.15 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 415

Ion	Ratio	Lower	Upper
61	100		
63	33.7	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

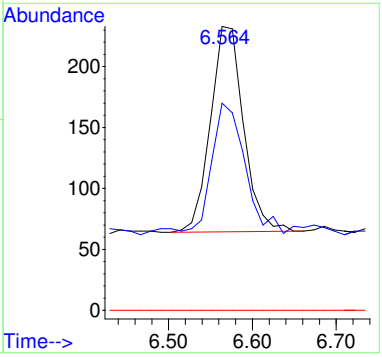


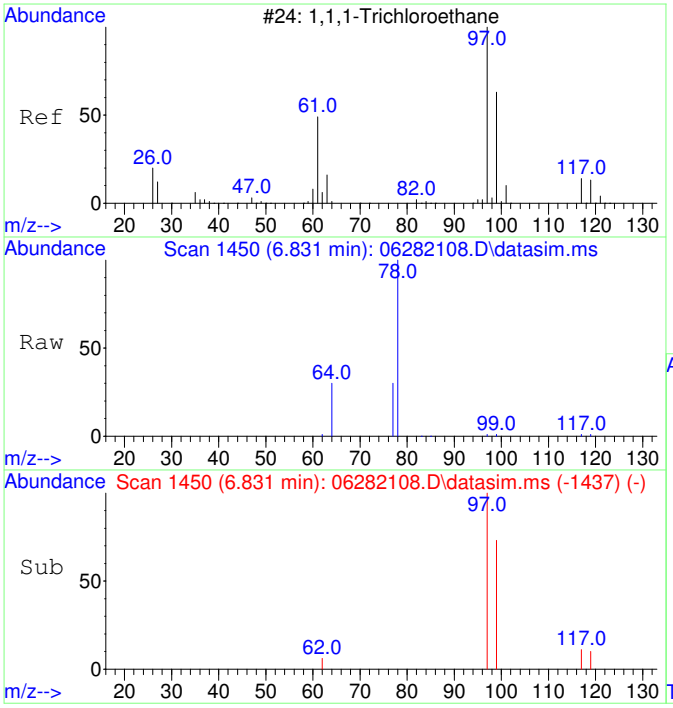


#6
Chloroform
Concen: 52.06 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 83 Resp: 461

Ion	Ratio	Lower	Upper
83	100		
85	69.0	34.5	94.5
87	0.0	0.0	20.0

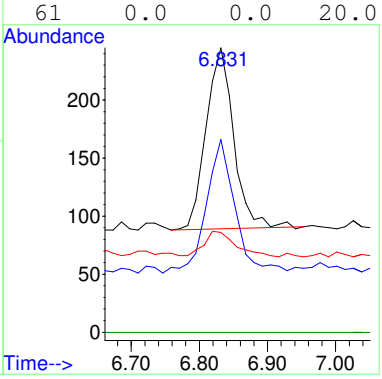


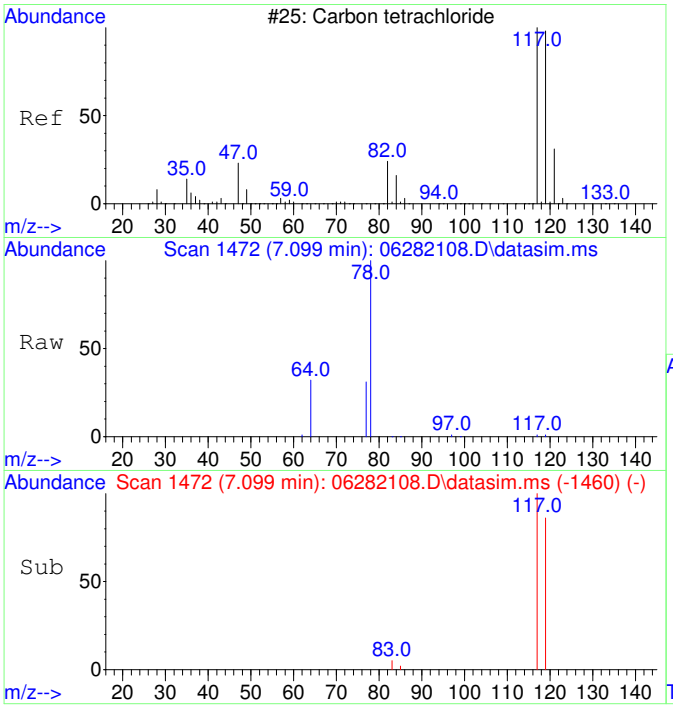


#7
1,1,1-Trichloroethane
Concen: 52.91 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 97 Resp: 436

Ion	Ratio	Lower	Upper
97	100		
99	77.1	34.4	94.4
117	16.1	0.0	42.8
61	0.0	0.0	20.0

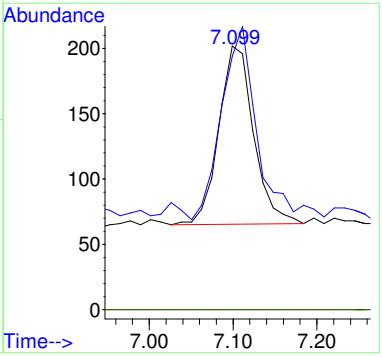


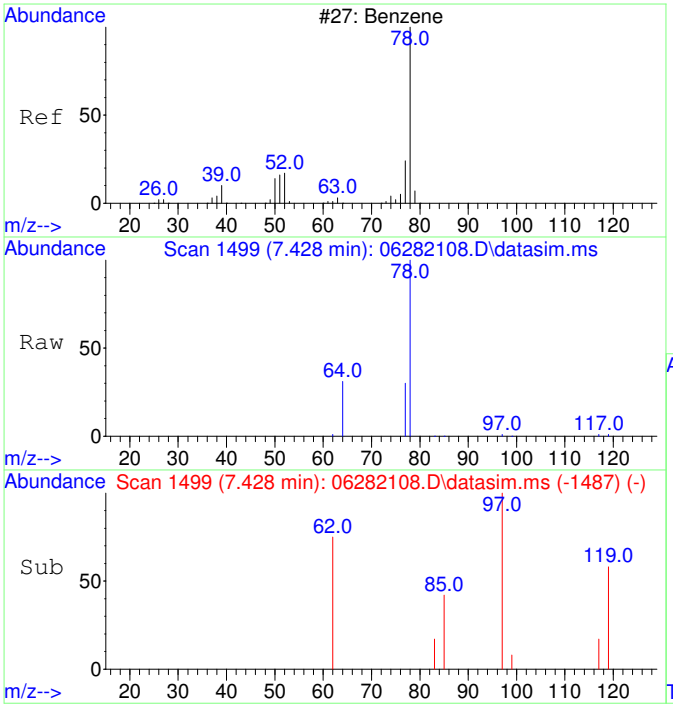


#8
Carbon tetrachloride
Concen: 54.61 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:117 Resp: 392

Ion	Ratio	Lower	Upper
117	100		
119	111.2	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

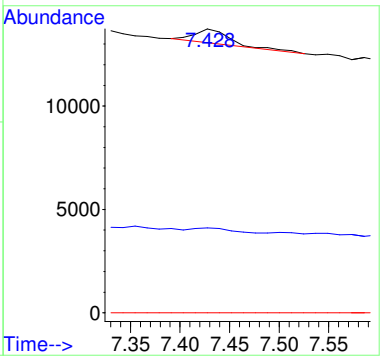


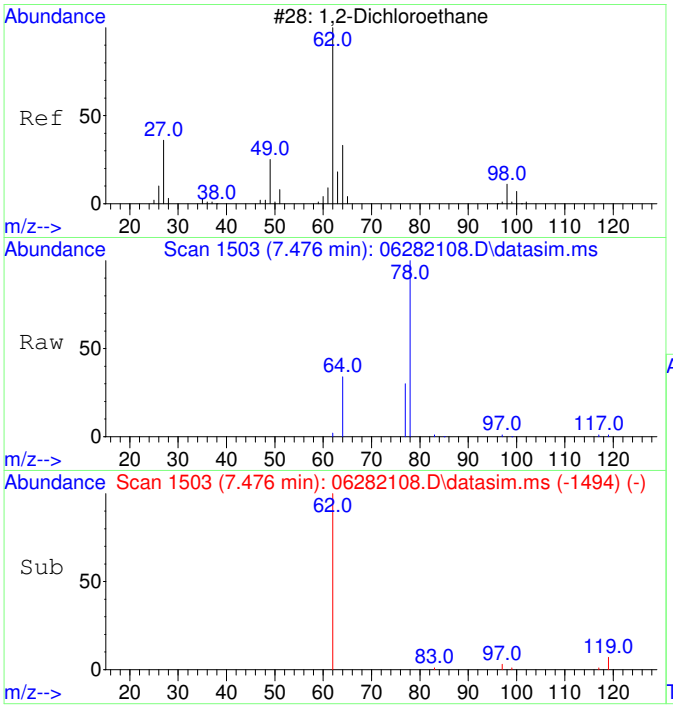


#9
Benzene
Concen: 57.88 ug/L
RT: 7.428 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 78 Resp: 1440

Ion	Ratio	Lower	Upper
78	100		
77	42.6	0.0	53.7
52	0.0	0.0	20.0

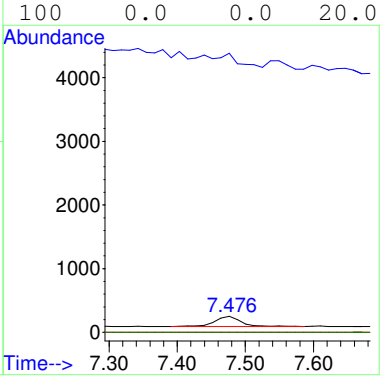


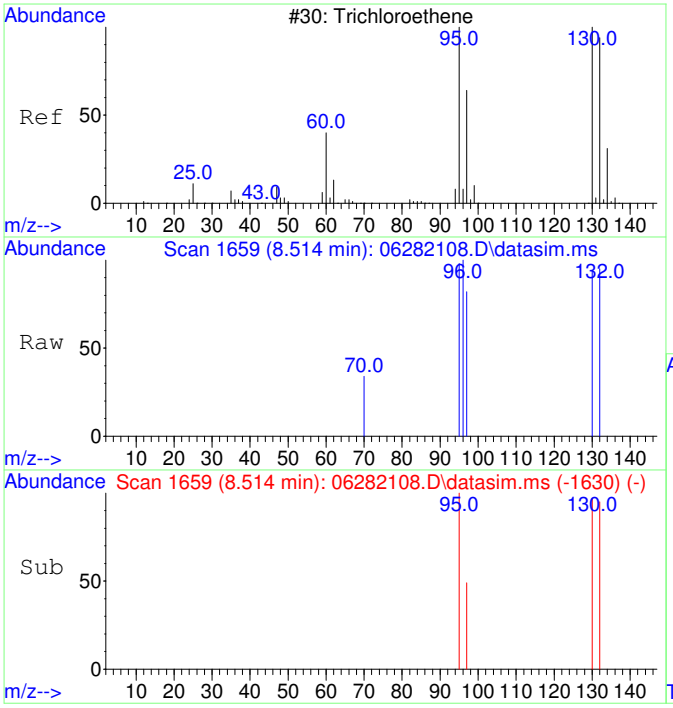


#10
1,2-Dichloroethane
Concen: 59.04 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 62 Resp: 404

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

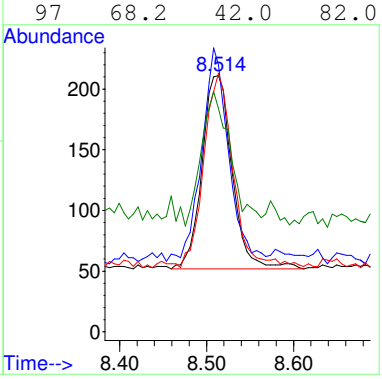


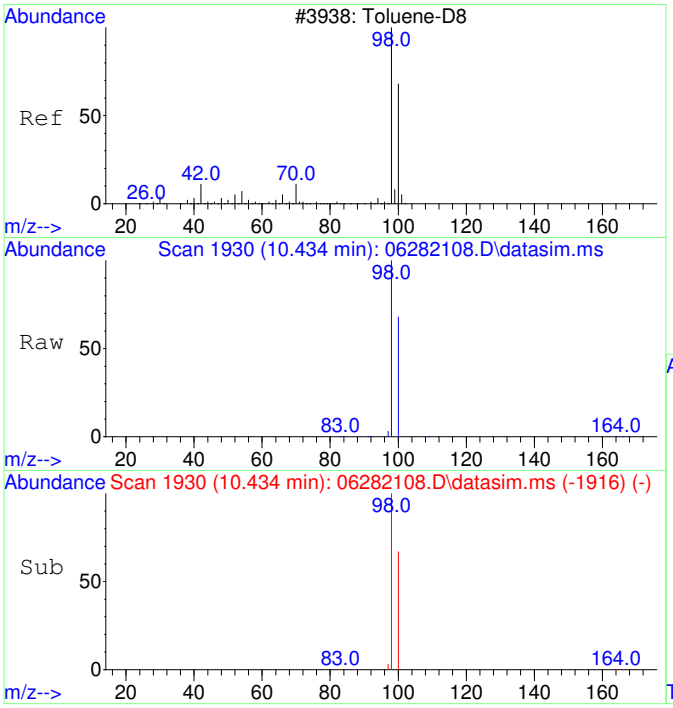


#11
Trichloroethene
Concen: 57.36 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:130 Resp: 380

Ion	Ratio	Lower	Upper
130	100		
95	102.6	65.8	125.8
132	97.4	75.8	115.8
97	68.2	42.0	82.0

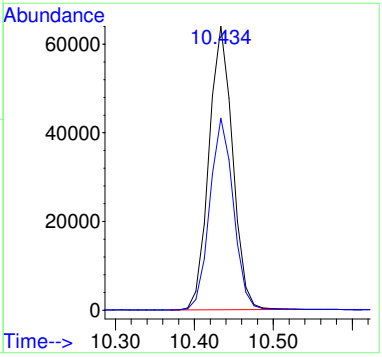


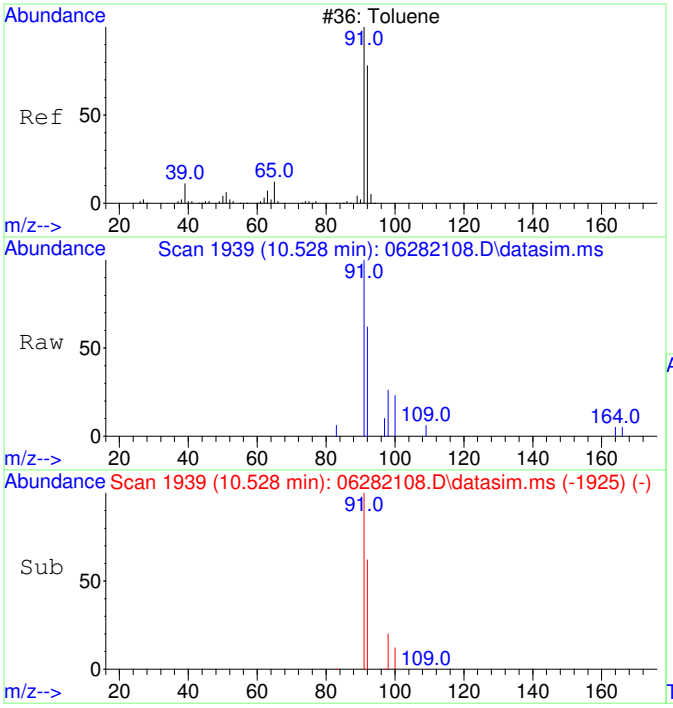


#12
Toluene-d8
Concen: 5078.86 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 98 Resp: 132889

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.3	97.3

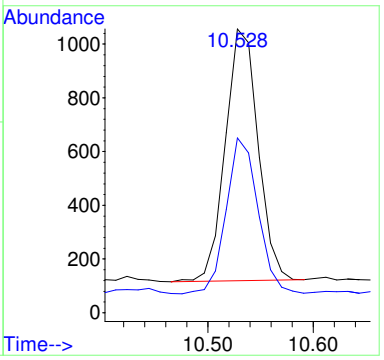


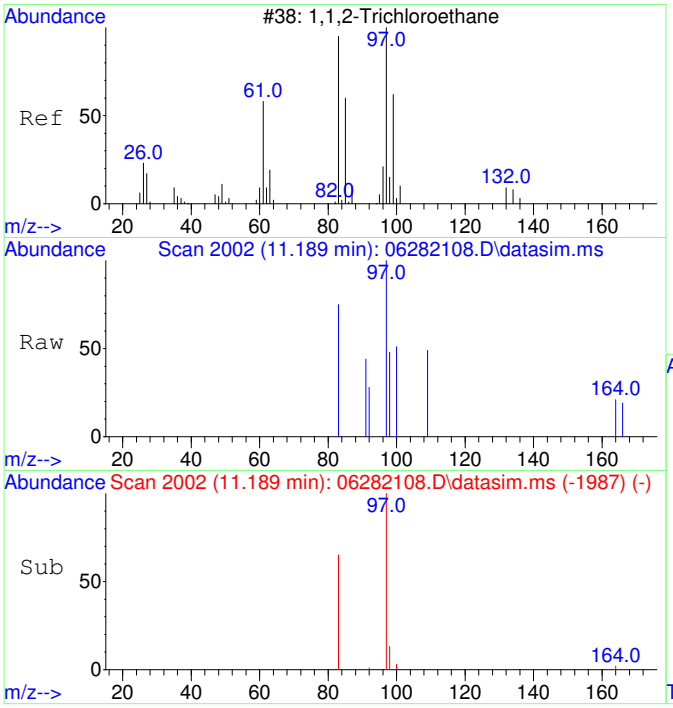


#13
Toluene
Concen: 59.57 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 2029

Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.2	90.2

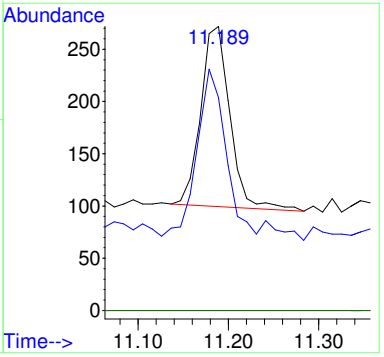


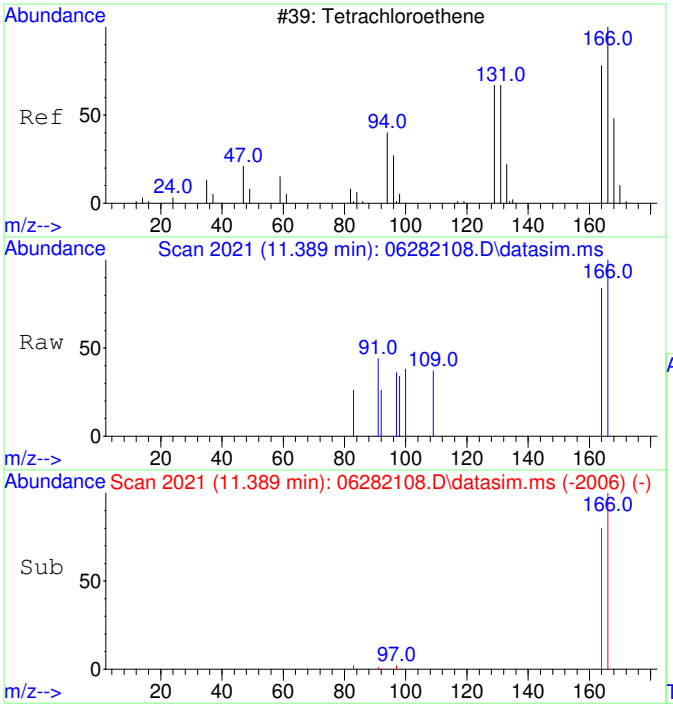


#14
1,1,2-Trichloroethane
Concen: 54.20 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 97 Resp: 384

Ion	Ratio	Lower	Upper
97	100		
83	94.0	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

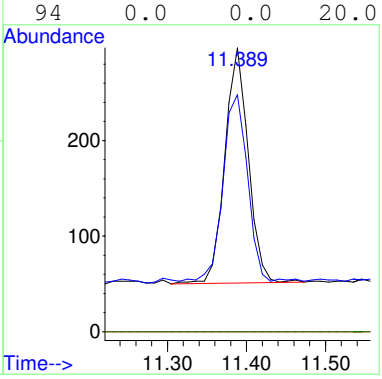


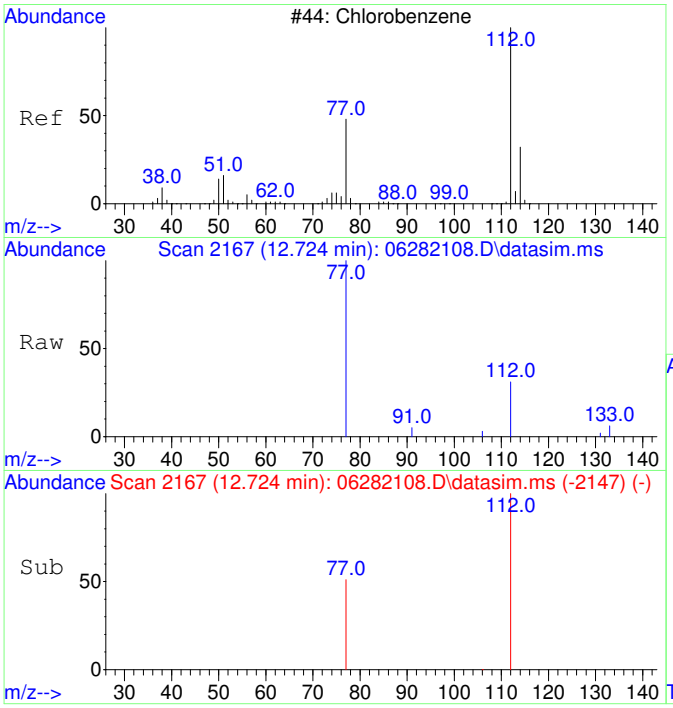


#15
Tetrachloroethene
Concen: 57.85 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:166 Resp: 504

Ion	Ratio	Lower	Upper
166	100		
164	82.7	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

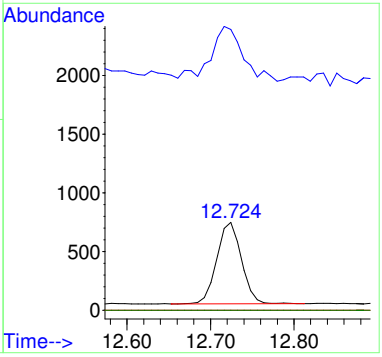


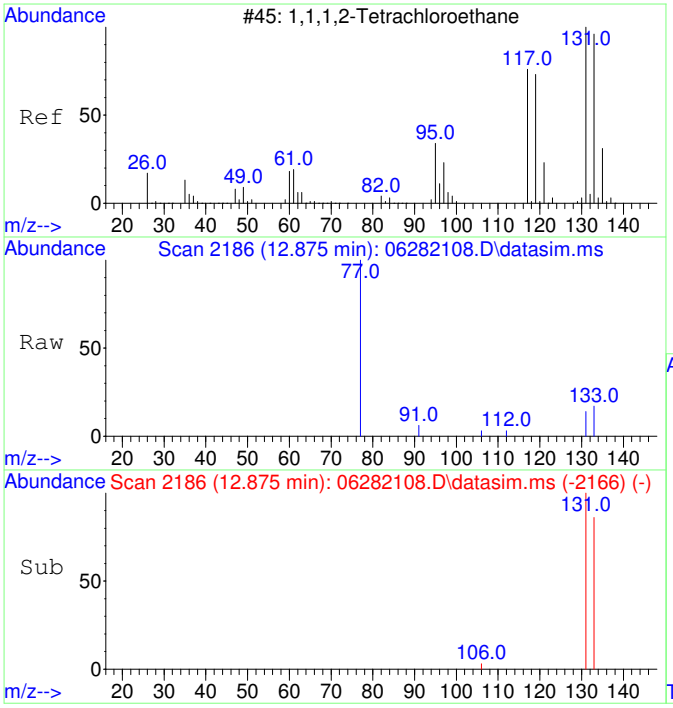


#16
Chlorobenzene
Concen: 48.28 ug/L
RT: 12.724 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:112 Resp: 1424

Ion	Ratio	Lower	Upper
112	100		
77	88.4	27.0	87.0#
114	0.0	0.0	20.0
51	0.0	0.0	20.0

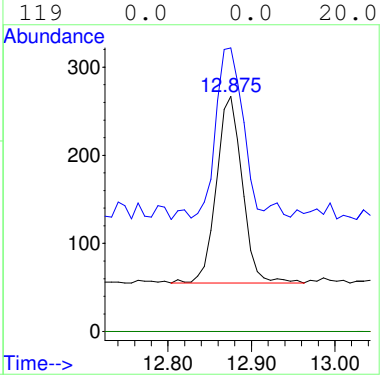


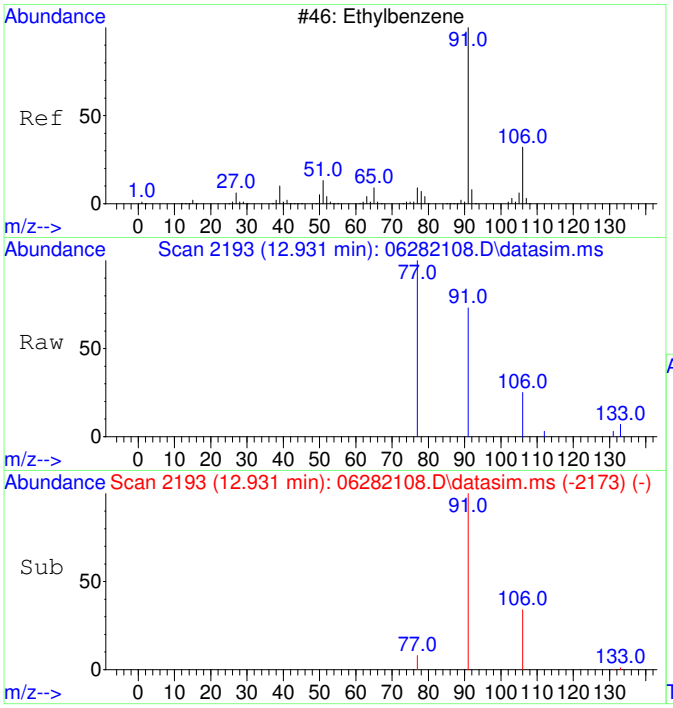


#17
1,1,1,2-Tetrachloroethane
Concen: 58.36 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:131 Resp: 458

Ion	Ratio	Lower	Upper
131	100		
133	94.5	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

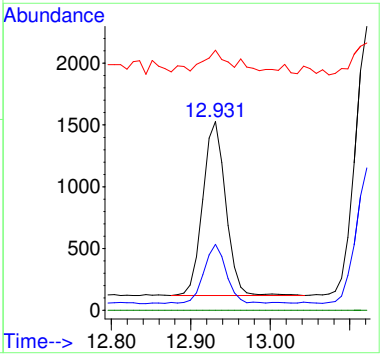


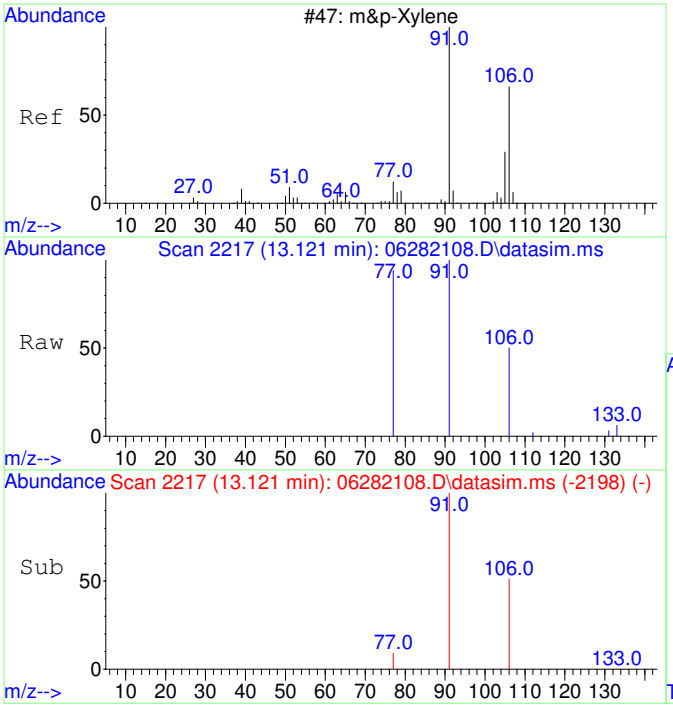


#18
Ethylbenzene
Concen: 64.65 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 2828

Ion	Ratio	Lower	Upper
91	100		
106	33.4	2.8	62.8
77	12.8	0.0	38.2
105	0.0	0.0	20.0

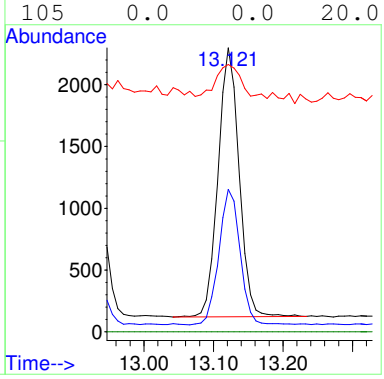


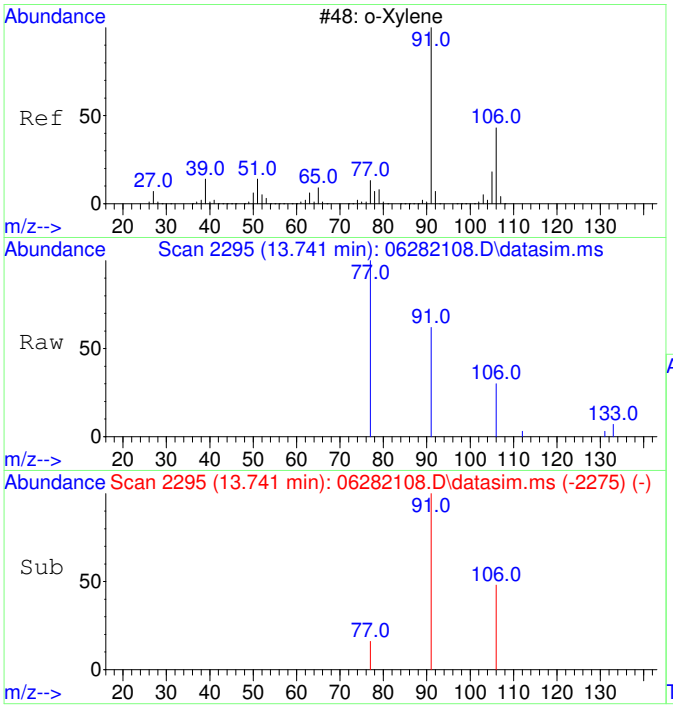


#19
m&p-Xylene
Concen: 132.48 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 4565

Ion	Ratio	Lower	Upper
91	100		
106	50.5	21.4	81.4
77	15.0	0.0	42.7
105	0.0	0.0	20.0

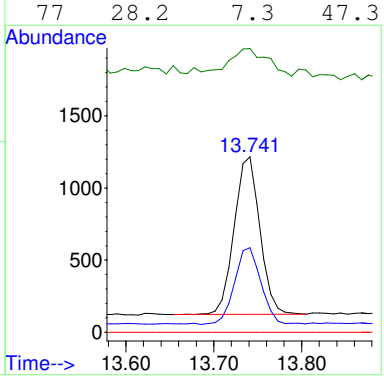


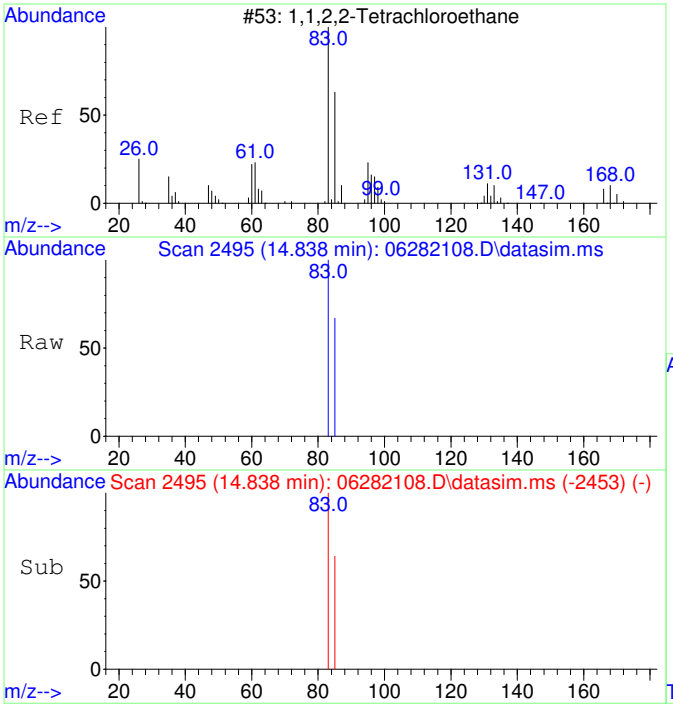


#20
o-Xylene
Concen: 59.57 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 2220

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.7	78.7
105	0.0	0.0	30.0
77	28.2	7.3	47.3

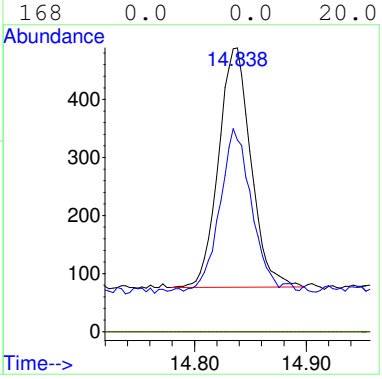


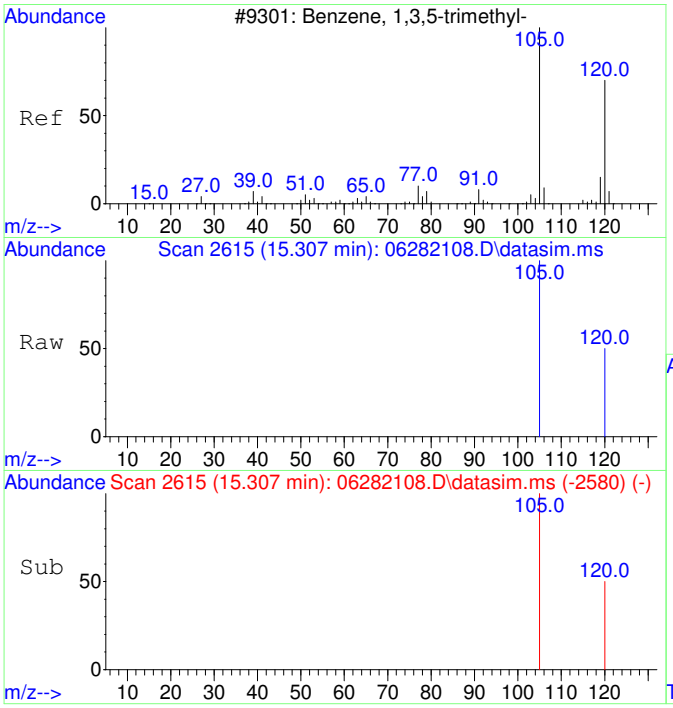


#21
1,1,2,2-Tetrachloroethane
Concen: 51.17 ug/L
RT: 14.838 min Scan# 2495
Delta R.T. 0.007 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 83 Resp: 831

Ion	Ratio	Lower	Upper
83	100		
85	65.7	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

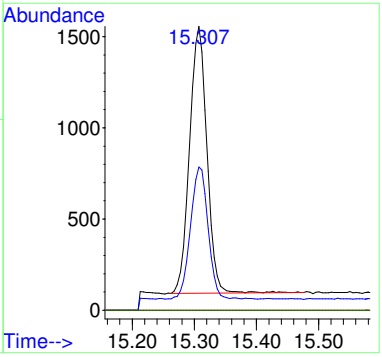


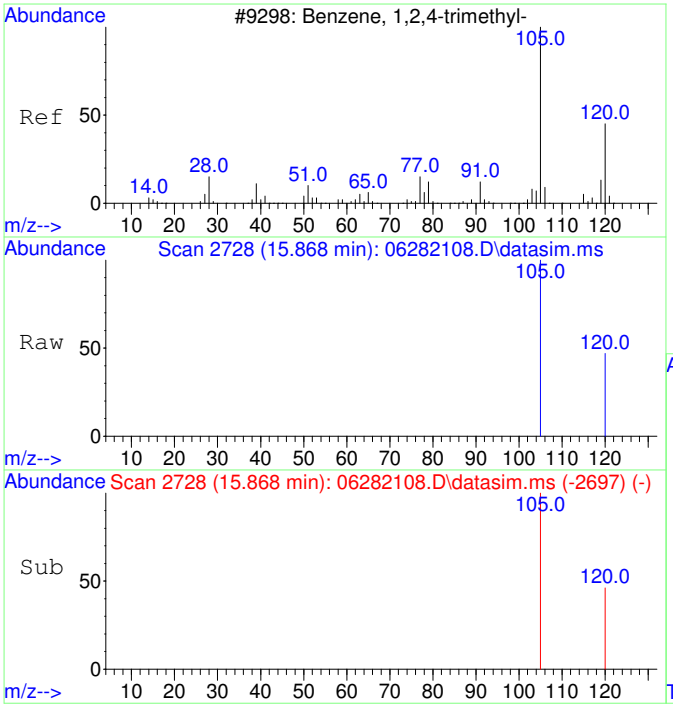


#22
1,3,5-Trimethylbenzene
Concen: 64.91 ug/L
RT: 15.307 min Scan# 2615
Delta R.T. 0.005 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:105 Resp: 2841

Ion	Ratio	Lower	Upper
105	100		
120	50.5	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

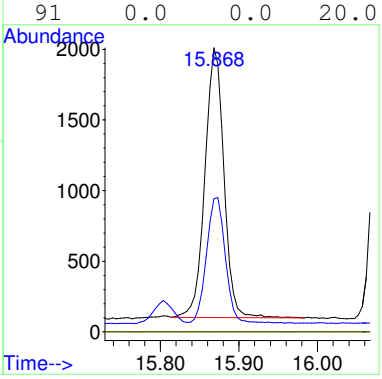


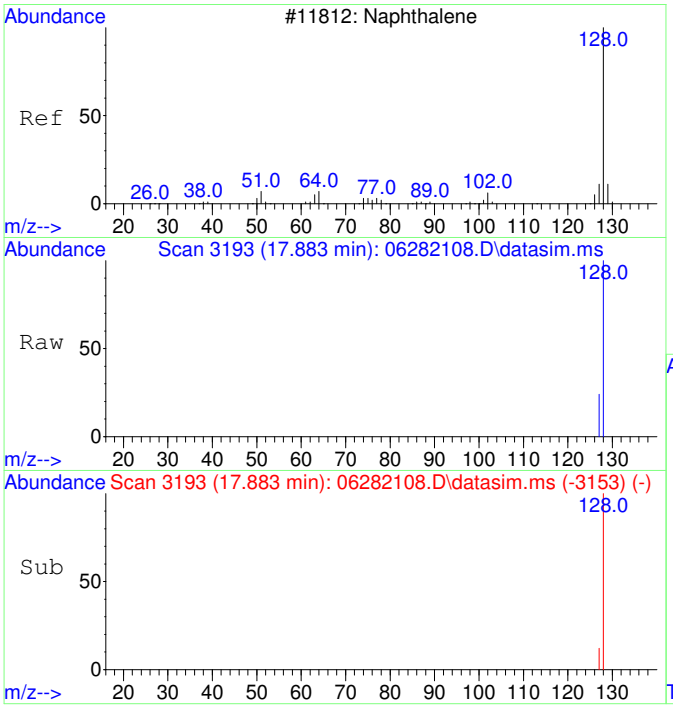


#23
1,2,4-Trimethylbenzene
Concen: 70.17 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:105 Resp: 3199

Ion	Ratio	Lower	Upper
105	100		
120	45.8	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

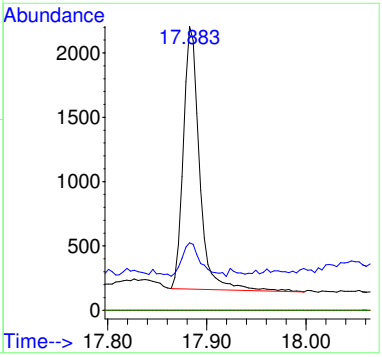


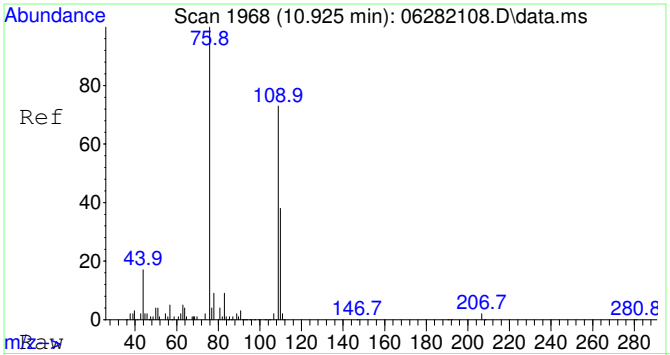


#24
Naphthalene
Concen: 27.03 ug/L
RT: 17.883 min Scan# 3193
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:128 Resp: 2302

Ion	Ratio	Lower	Upper
128	100		
127	14.5	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

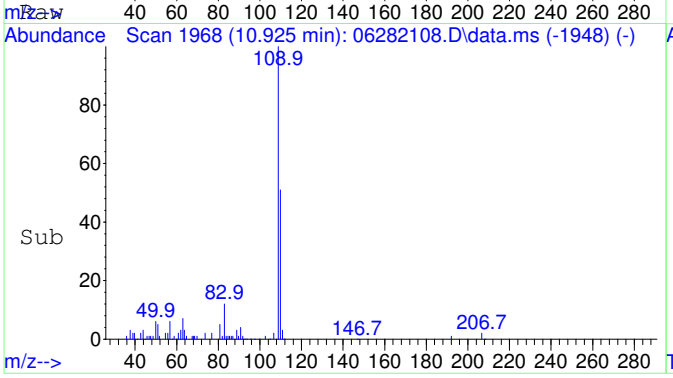


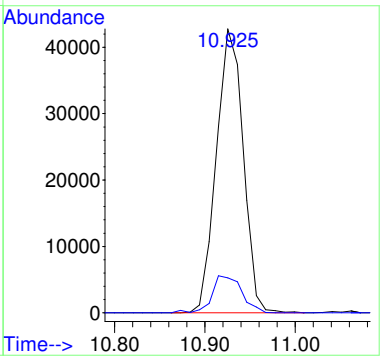


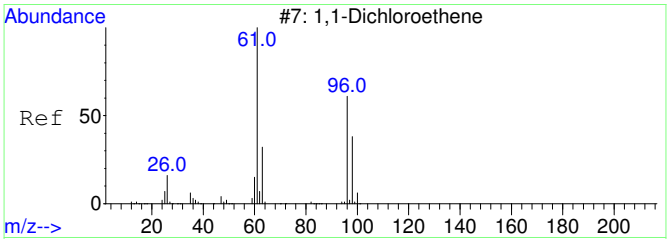
#25
2-Fluorotoluene SCAN
Concen: 4713.31 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:109 Resp: 88617

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	44.5



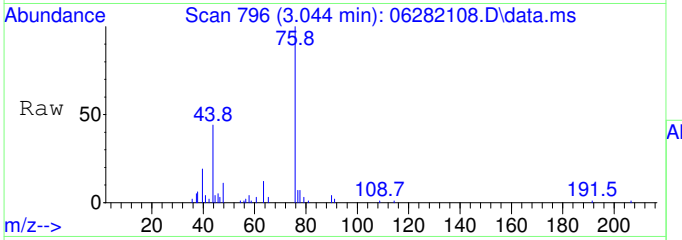


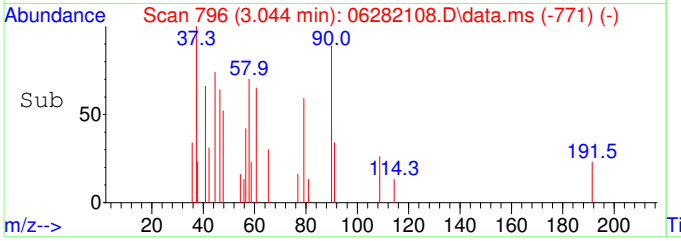


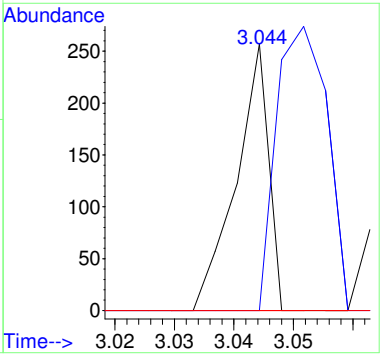
#26
1,1-Dichloroethene SCAN
Concen: 24.43 ug/L
RT: 3.044 min Scan# 796
Delta R.T. -0.007 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

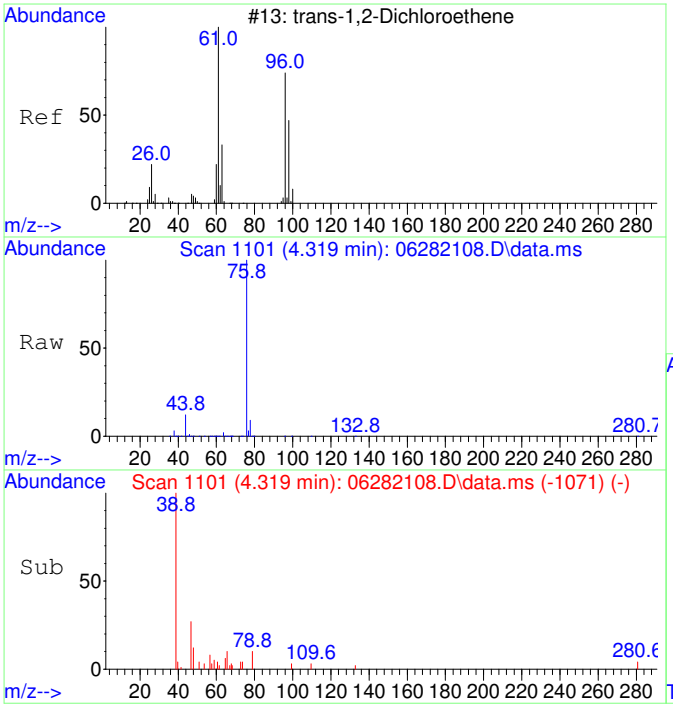
Tgt Ion: 61 Resp: 97

Ion	Ratio	Lower	Upper
61	100		
96	167.0	33.0	93.0#
98	0.0	12.5	72.5#





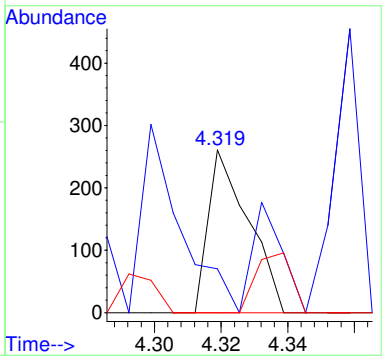


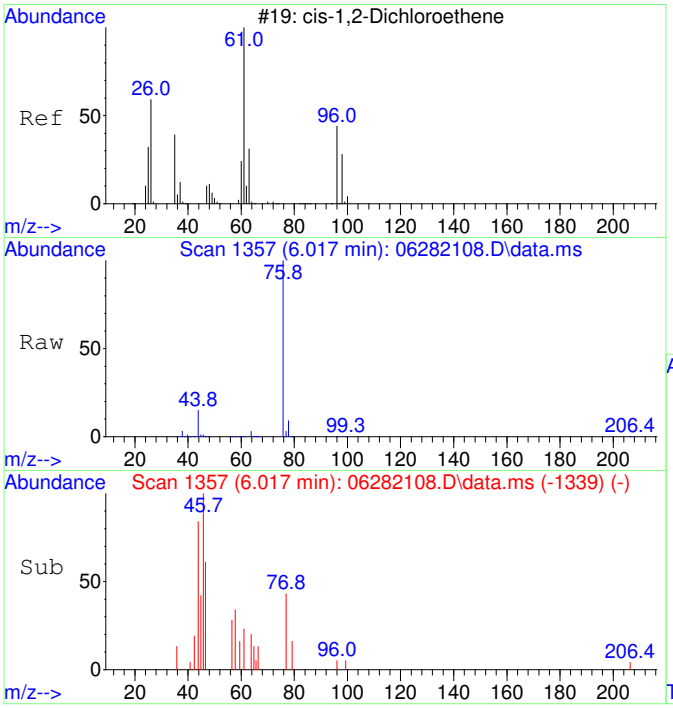


#27
trans-1,2-Dichloroethene SCAN
Concen: 50.51 ug/L
RT: 4.319 min Scan# 1101
Delta R.T. 0.100 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 217

Ion	Ratio	Lower	Upper
61	100		
96	49.8	49.3	109.3
98	33.2	24.0	84.0

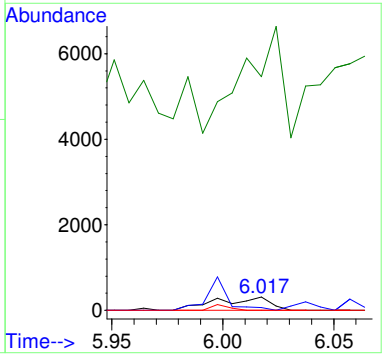


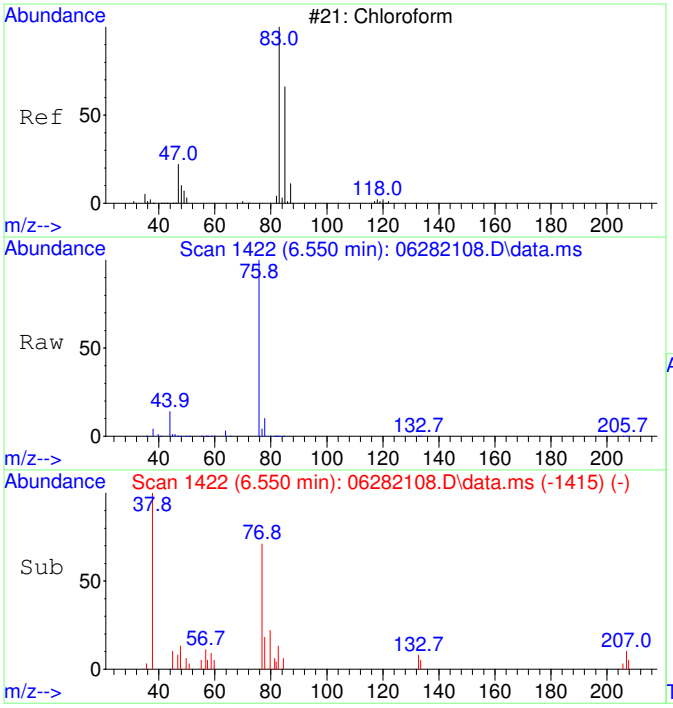


#29
cis-1,2-Dichloroethene SCAN
Concen: 90.04 ug/L
RT: 6.017 min Scan# 1357
Delta R.T. 0.020 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 61 Resp: 523

Ion	Ratio	Lower	Upper
61	100		
96	28.3	36.9	96.9#
98	0.0	12.1	72.1#
64	569.6	0.0	32.6#

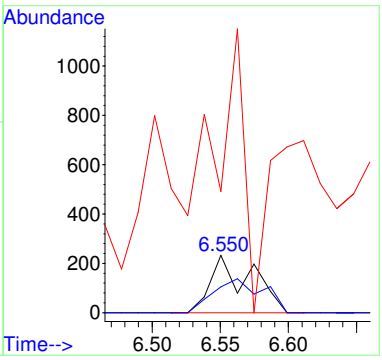


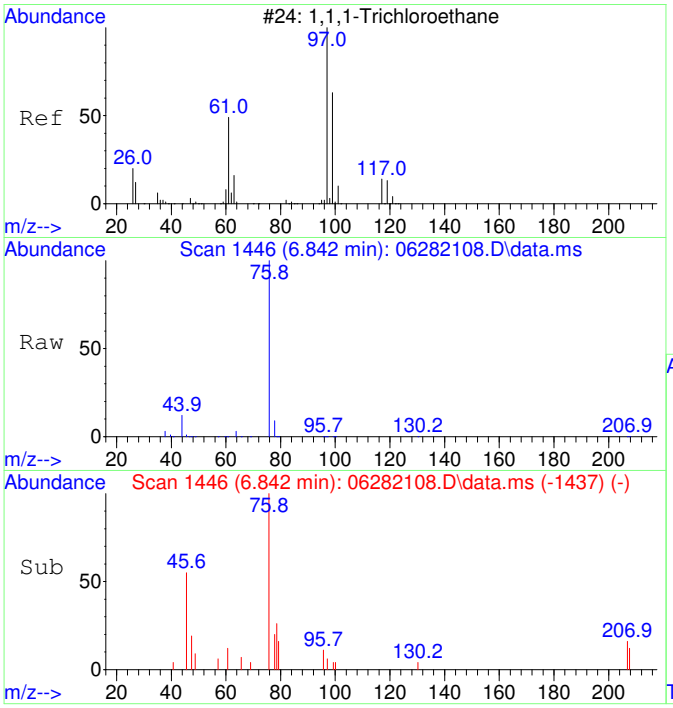


#30
Chloroform SCAN
Concen: 78.46 ug/L
RT: 6.550 min Scan# 1422
Delta R.T. -0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 83 Resp: 482

Ion	Ratio	Lower	Upper
83	100		
85	72.6	27.1	87.1
47	251.2	7.5	67.5#

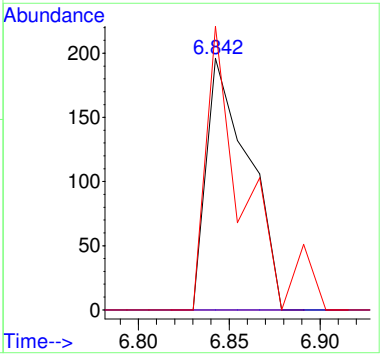


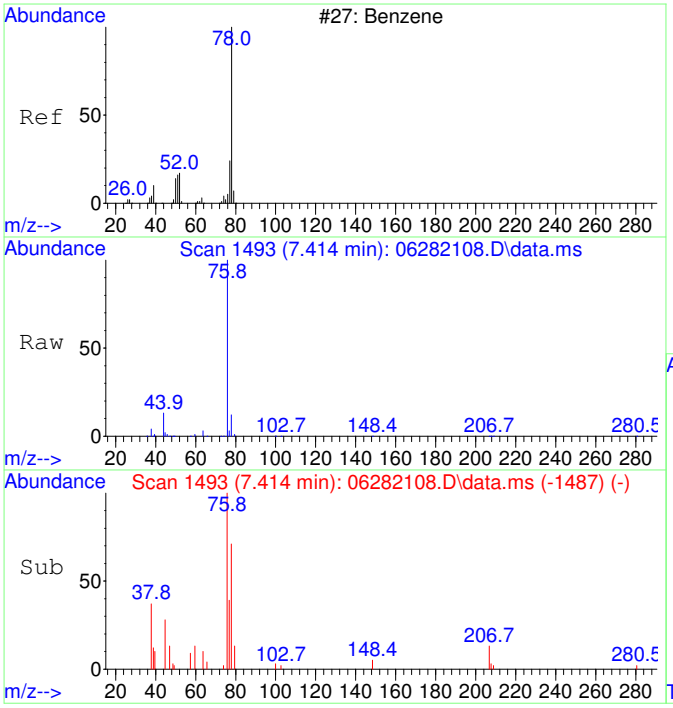


#31
1,1,1-Trichloroethane SCAN
Concen: 55.23 ug/L
RT: 6.842 min Scan# 1446
Delta R.T. 0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 97 Resp: 317

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	101.9	11.4	71.4#

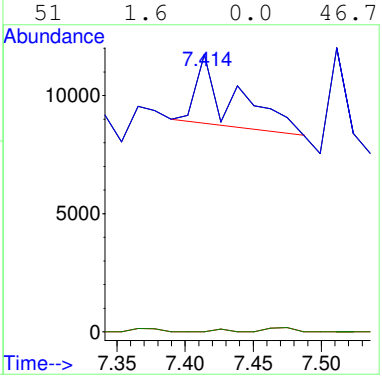


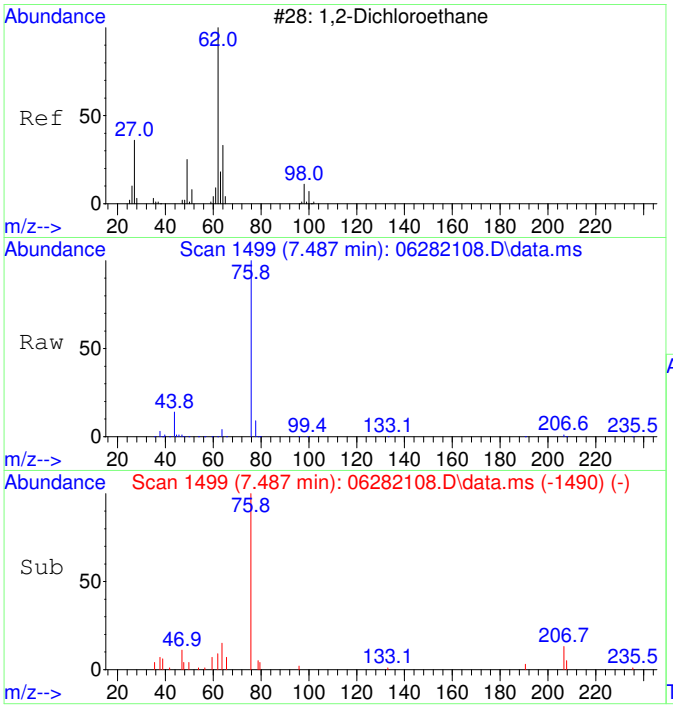


#33
Benzene SCAN
Concen: 372.36 ug/L
RT: 7.414 min Scan# 1493
Delta R.T. -0.024 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 78 Resp: 5366

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.6	0.0	46.7
51	1.6	0.0	46.7

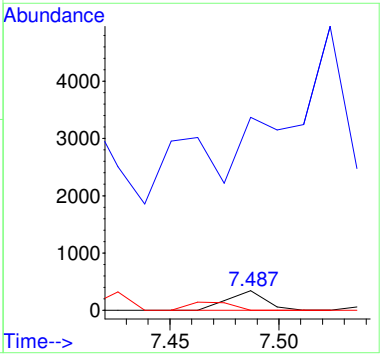


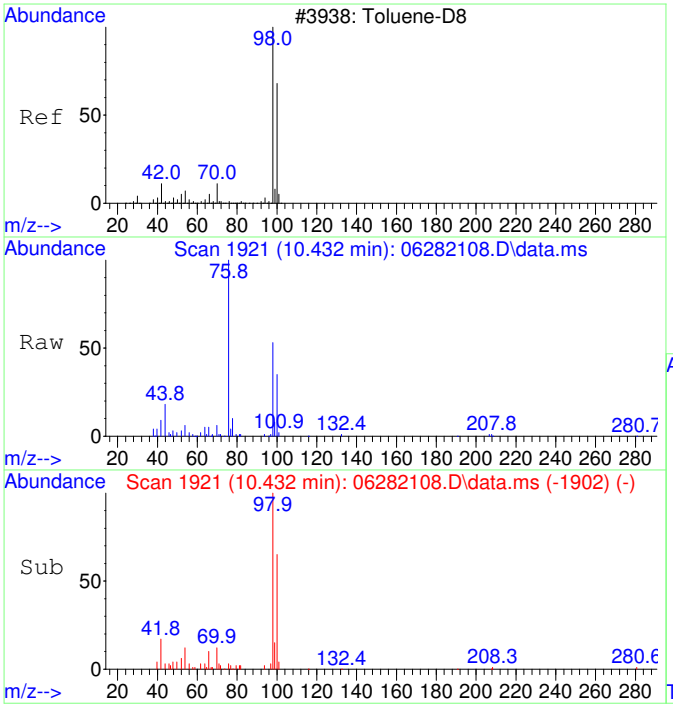


#34
1,2-Dichloroethane SCAN
Concen: 91.78 ug/L
RT: 7.487 min Scan# 1499
Delta R.T. 0.012 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 62 Resp: 417

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

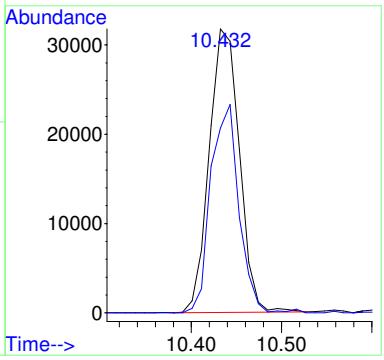


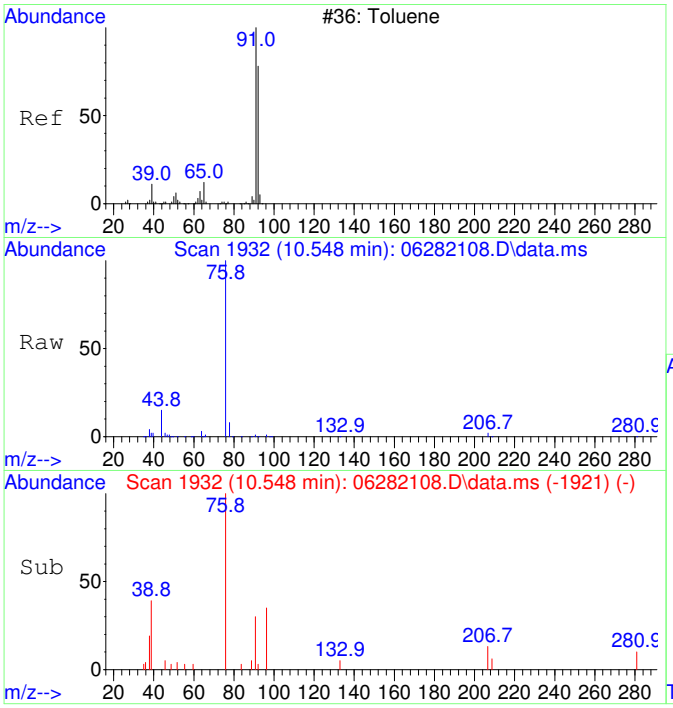


#36
Toluene-d8 SCAN
Concen: 4540.68 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 98 Resp: 74045

Ion	Ratio	Lower	Upper
98	100		
100	68.5	36.1	96.1

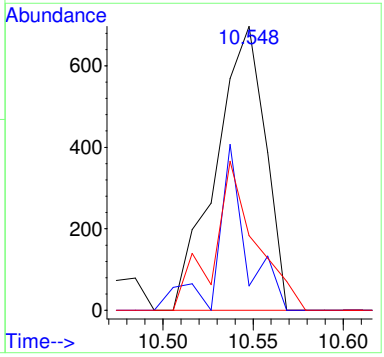


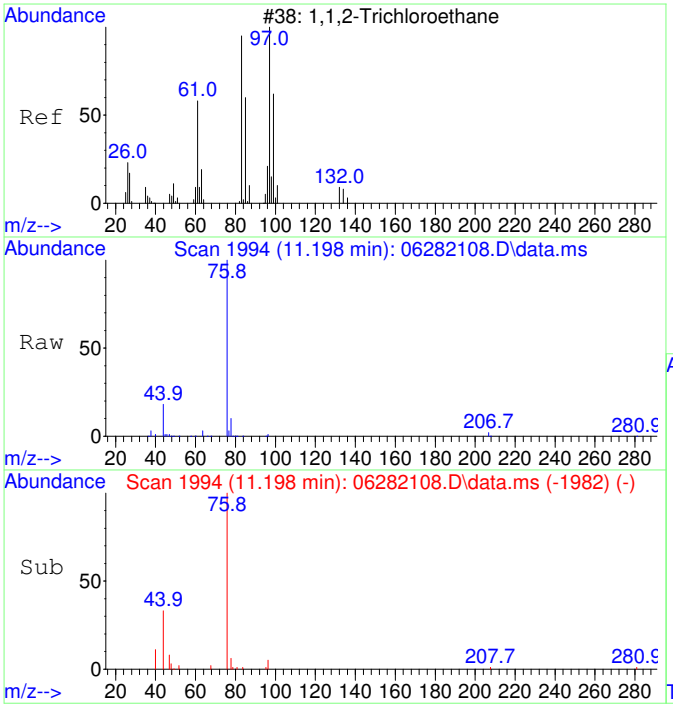


#37
Toluene SCAN
Concen: 63.06 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 1331

Ion	Ratio	Lower	Upper
91	100		
92	34.1	26.5	86.5
65	45.0	0.0	40.6#

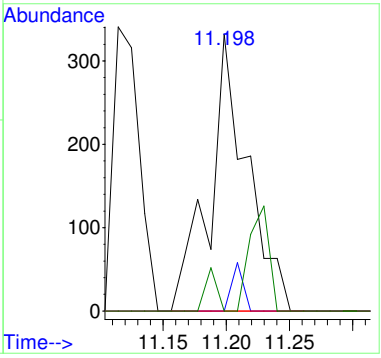


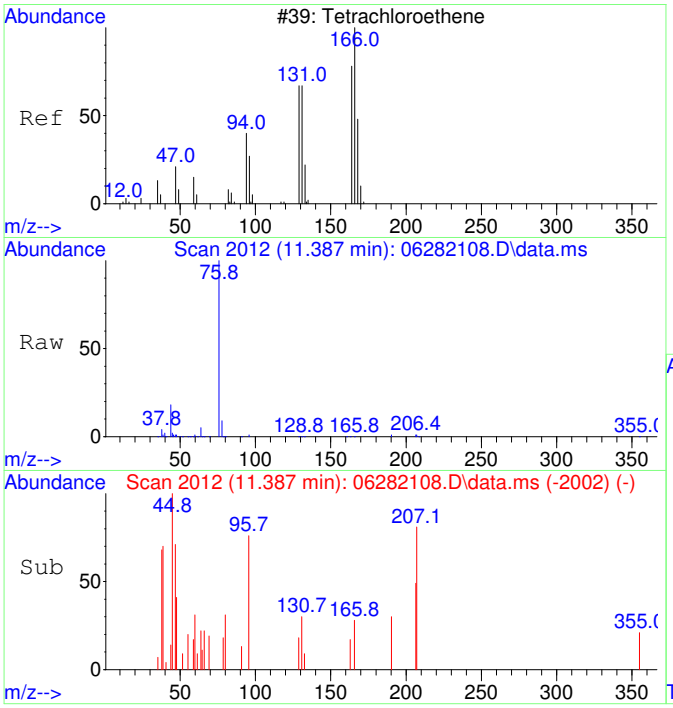


#38
1,1,2-Trichloroethane SCAN
Concen: 137.64 ug/L
RT: 11.198 min Scan# 1994
Delta R.T. 0.021 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 97 Resp: 692

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

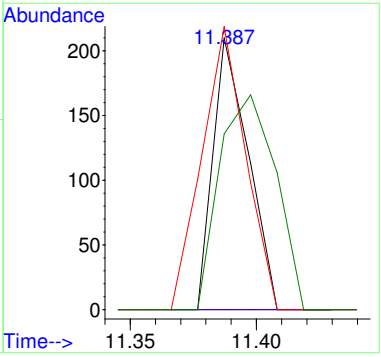


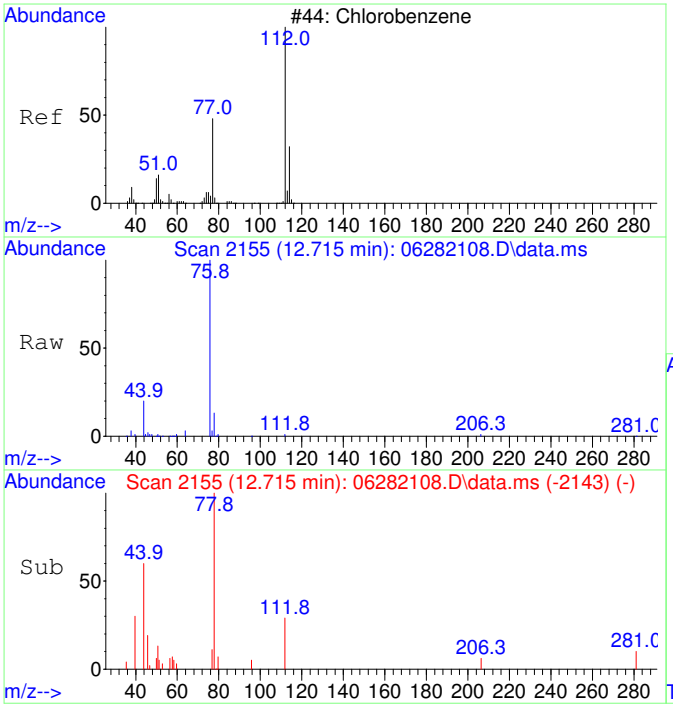


#39
Tetrachloroethene SCAN
Concen: 39.94 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:166 Resp: 203

Ion	Ratio	Lower	Upper
166	100		
164	0.0	53.9	113.9#
131	129.6	45.6	105.6#
129	126.6	51.3	111.3#

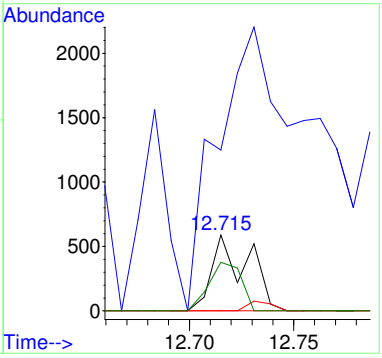


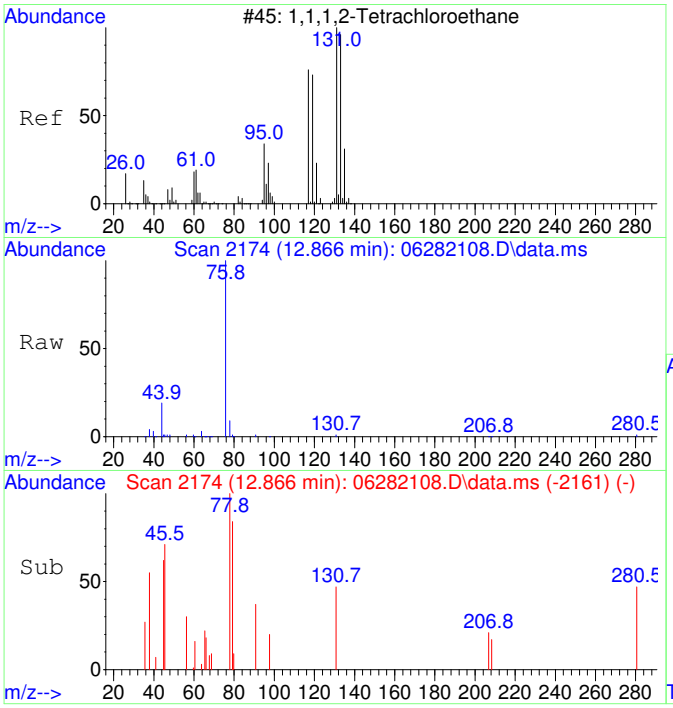


#40
Chlorobenzene SCAN
Concen: 45.06 ug/L
RT: 12.715 min Scan# 2155
Delta R.T. -0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:112 Resp: 709

Ion	Ratio	Lower	Upper
112	100		
77	1083.5	48.5	108.5#
114	8.6	4.9	64.9
51	57.5	0.0	53.6#

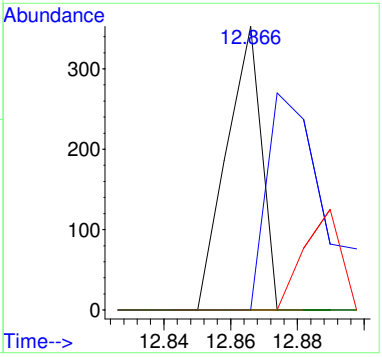


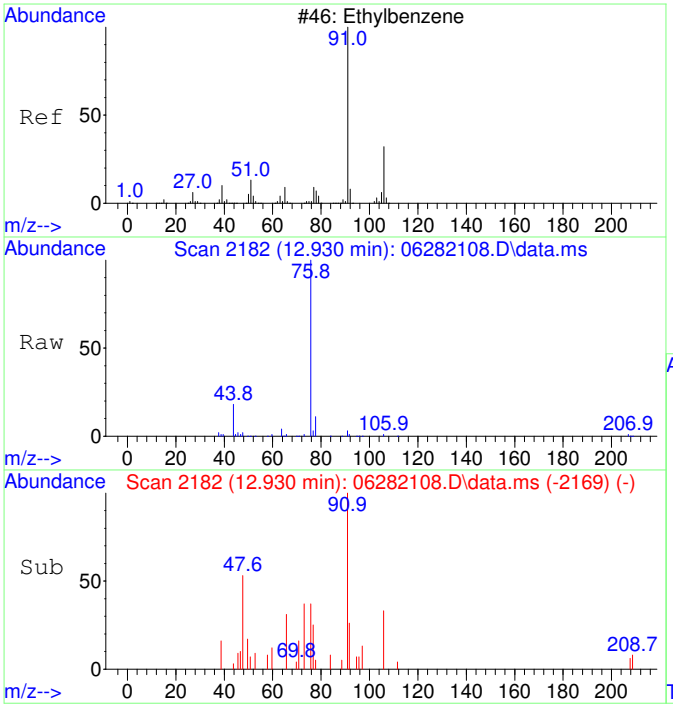


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 55.01 ug/L
RT: 12.866 min Scan# 2174
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:131 Resp: 257

Ion	Ratio	Lower	Upper
131	100		
133	94.9	61.4	121.4
119	0.0	33.6	93.6#
117	0.0	39.6	99.6#

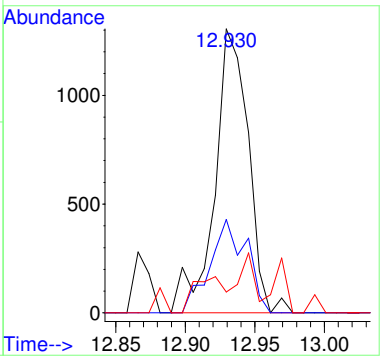


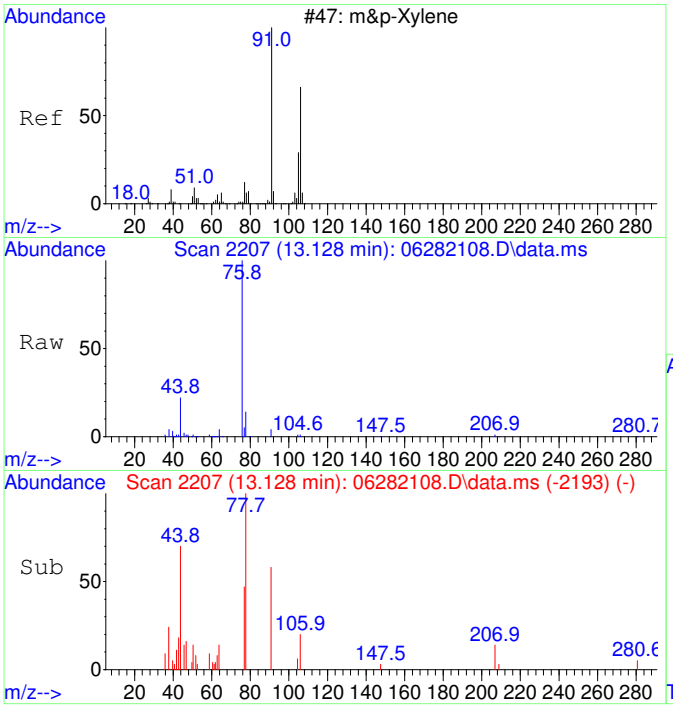


#42
Ethylbenzene SCAN
Concen: 78.23 ug/L
RT: 12.930 min Scan# 2182
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 2201

Ion	Ratio	Lower	Upper
91	100		
106	35.9	0.5	60.5
51	7.8	0.0	39.6

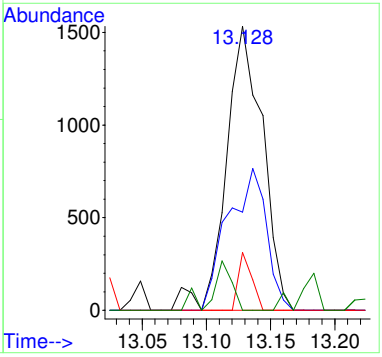


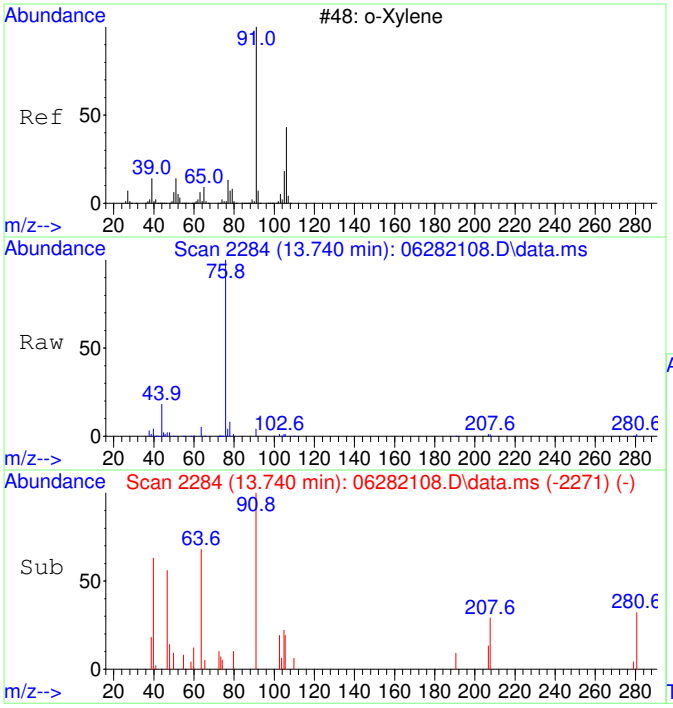


#43
m&p-Xylene SCAN
Concen: 72.09 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 3026

Ion	Ratio	Lower	Upper
91	100		
106	52.7	21.2	81.2
105	7.5	0.0	51.6
51	0.0	0.0	41.7

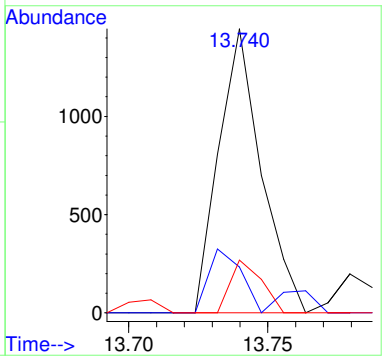


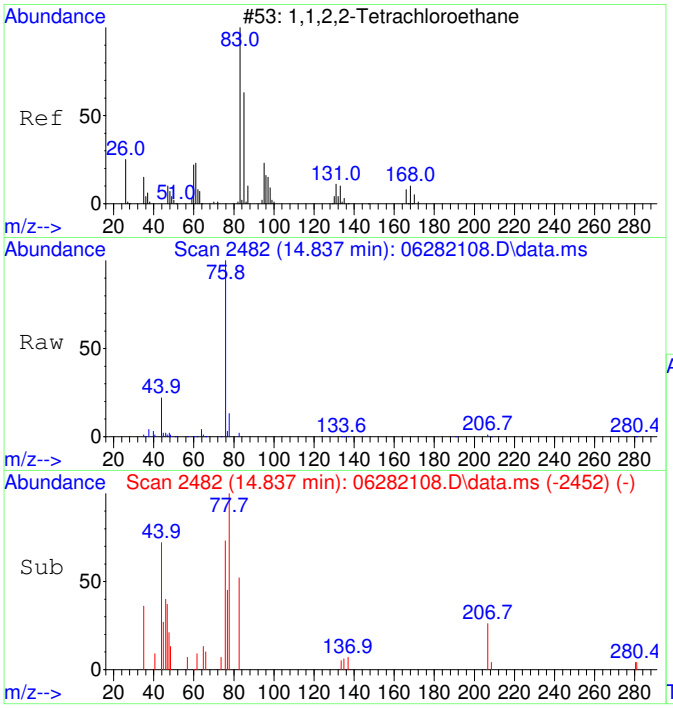


#44
o-Xylene SCAN
Concen: 66.57 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 91 Resp: 1537

Ion	Ratio	Lower	Upper
91	100		
106	24.1	19.1	79.1
105	13.7	0.0	55.6

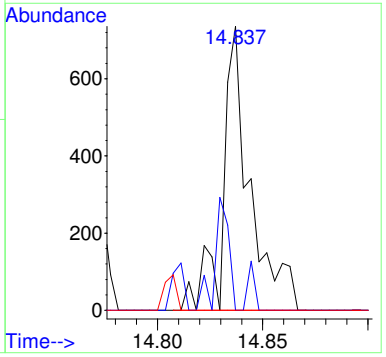


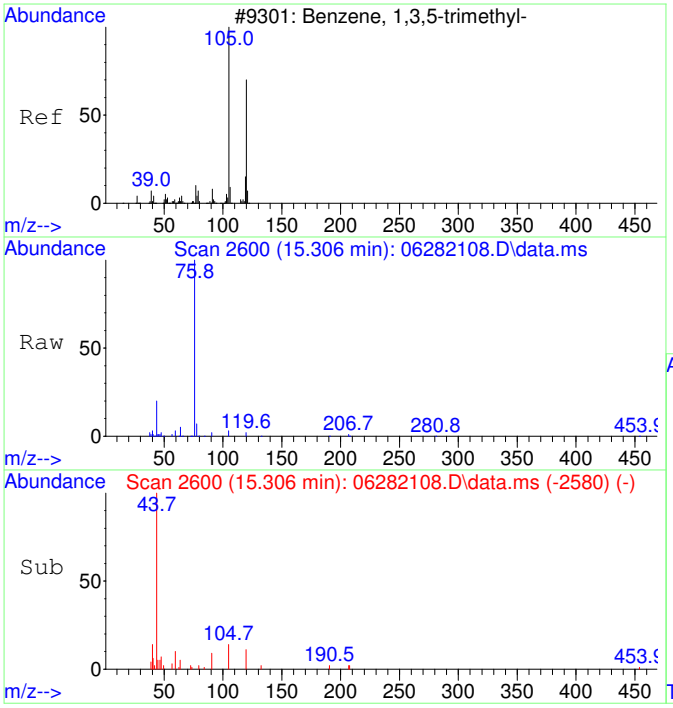


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 58.21 ug/L
RT: 14.837 min Scan# 2482
Delta R.T. 0.011 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion: 83 Resp: 657

Ion	Ratio	Lower	Upper
83	100		
85	20.5	34.1	94.1#
95	0.0	0.0	46.2

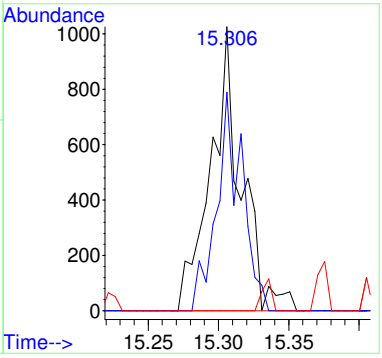


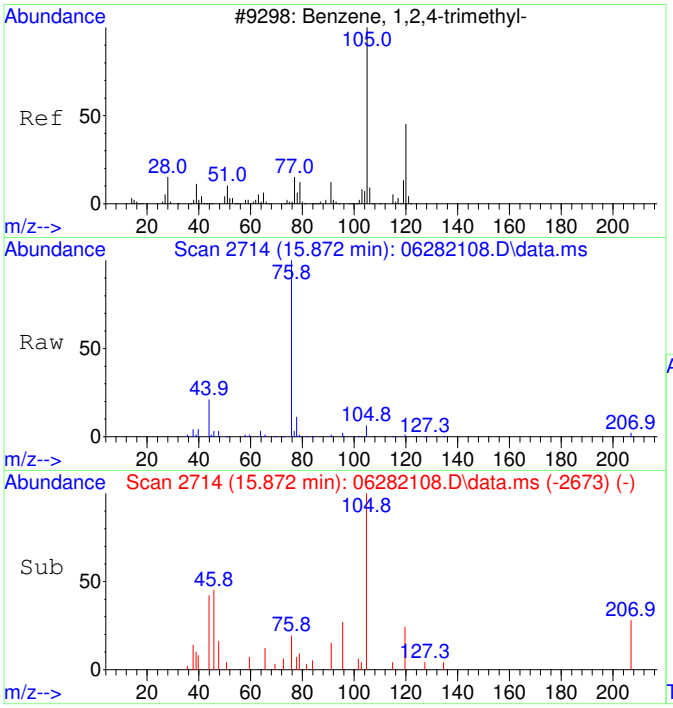


#46
1,3,5-Trimethylbenzene SCAN
Concen: 61.19 ug/L
RT: 15.306 min Scan# 2600
Delta R.T. 0.005 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:105 Resp: 1551

Ion	Ratio	Lower	Upper
105	100		
120	63.8	20.2	80.2
119	0.0	0.0	43.8

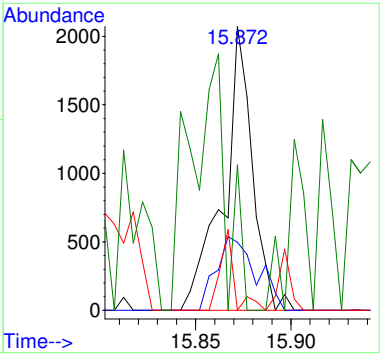


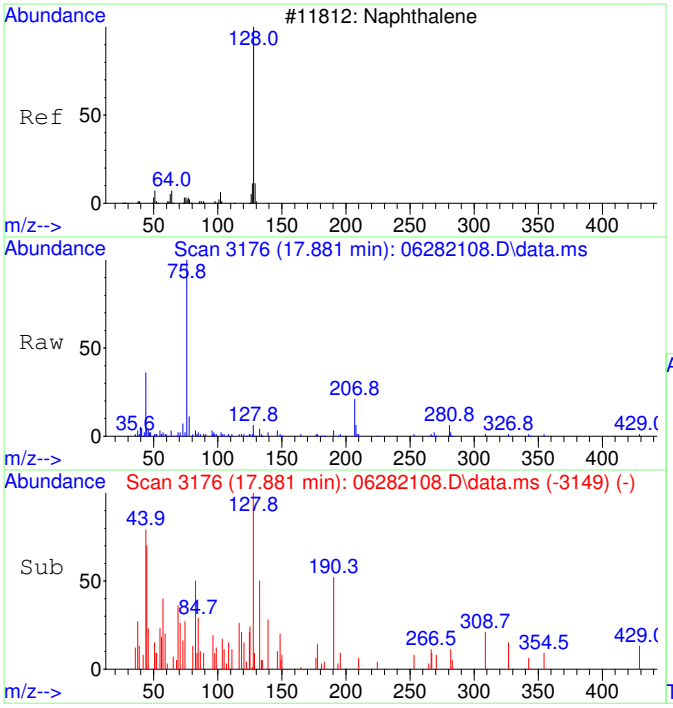


#47
1,2,4-Trimethylbenzene SCAN
Concen: 82.78 ug/L
RT: 15.872 min Scan# 2714
Delta R.T. 0.005 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:105 Resp: 2173

Ion	Ratio	Lower	Upper
105	100		
120	36.1	15.6	75.6
119	13.8	0.0	38.2
77	110.4	0.0	44.0#

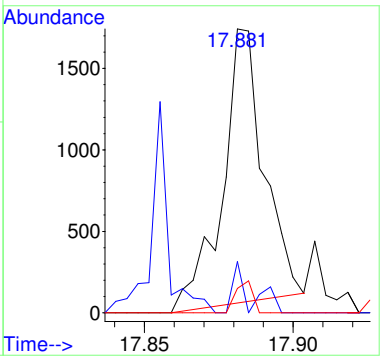




#48
Naphthalene SCAN
Concen: 33.87 ug/L
RT: 17.881 min Scan# 3176
Delta R.T. 0.000 min
Lab File: 06282108.D
Acq: 28 Jun 2021 12:02

Tgt Ion:128 Resp: 1621

Ion	Ratio	Lower	Upper
128	100		
127	8.1	0.0	41.1
129	4.8	0.0	39.5



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 21176E
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2104012
Sequence: S21F068

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S21F068-CRL1	1,1-Dichloroethene	50.0	50.2	100	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	49.2	98	ug/L	60 - 140
	1,1-Dichloroethane	50.0	52.3	105	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	51.6	103	ug/L	60 - 140
	Chloroform	50.0	61.1	122	ug/L	60 - 140
	Trichloroethene	50.0	48.9	98	ug/L	60 - 140
	Tetrachloroethene	50.0	52.0	104	ug/L	60 - 140
	Toluene-d8	50.0	51.9	104	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S21F068-CRL1
Misc Info: 2106042 0.05 mg/L
Date Acquired: 6/28/21 10:15
QLast Update: Thu Apr 29 06:45:57 2021
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.927	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.049	50.0	50.19	100%	60	140	pass
3)	trans-1,2-Dichloroethene	4.214	50.0	49.17	98%	60	140	pass
4)	1,1-Dichloroethane	4.964	50.0	52.29	105%	60	140	pass
5)	cis-1,2-Dichloroethene	5.992	50.0	51.60	103%	60	140	pass
6)	Chloroform	6.564	50.0	61.06	122%	60	140	pass
11)	Trichloroethene	8.508	50.0	48.94	98%	60	140	pass
12)	Toluene-d8	10.433	50.0	51.94	104%	60	140	pass
13)	Toluene	10.528	50.0	57.89	116%	60	140	pass
14)	1,1,2-Trichloroethane	11.179	50.0	52.75	105%	60	140	pass
15)	Tetrachloroethene	11.378	50.0	52.03	104%	60	140	pass
16)	Chlorobenzene	12.716	50.0	76.19	152%	60	140	FAIL
17)	1,1,1,2-Tetrachloroethane	12.867	50.0	48.98	98%	60	140	pass
18)	Ethylbenzene	12.923	50.0	51.93	104%	60	140	pass
19)	m&p-Xylene	13.121	100.0	105.48	105%	60	140	pass
20)	o-Xylene	13.733	50.0	52.57	105%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.831	50.0	50.63	101%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.302	50.0	55.02	110%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.863	50.0	59.21	118%	60	140	pass
24)	Naphthalene	17.882	50.0	91.11	182%	60	140	FAIL

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282104.D
Acq On : 28 Jun 2021 10:15
InstName : AG5975C
Operator : TD
Sample : S21F068-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 10:37:04 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

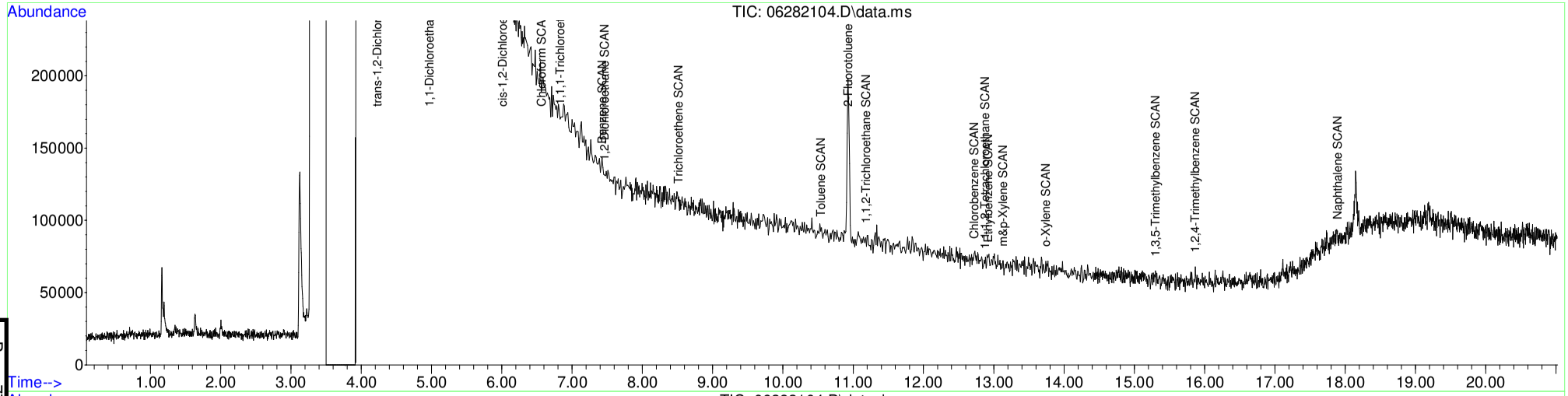
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	157356	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	1400	51.94	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 1.04%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.053	61	344	50.19	ug/L #	96
3] trans-1,2-Dichloroethene	4.214	61	290	49.17	ug/L #	94
4] 1,1-Dichloroethane	4.970	63	423	52.29	ug/L #	65
5] cis-1,2-Dichloroethene	5.992	61	400	51.60	ug/L #	87
6] Chloroform	6.564	83	557	61.06	ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	444	52.31	ug/L #	92
8] Carbon tetrachloride	7.099	117	376	50.85	ug/L #	94
9] Benzene	7.427	78	2473	96.49	ug/L #	55
10] 1,2-Dichloroethane	7.476	62	399	56.60	ug/L #	43
11] Trichloroethene	8.514	130	334	48.94	ug/L #	78
13] Toluene	10.528	91	2031	57.89	ug/L	97
14] 1,1,2-Trichloroethane	11.189	97	385	52.75	ug/L #	84
15] Tetrachloroethene	11.388	166	467	52.03	ug/L #	95
16] Chlorobenzene	12.724	112	2315	76.19	ug/L #	81
17] 1,1,1,2-Tetrachloroethane	12.875	131	396	48.98	ug/L #	82
18] Ethylbenzene	12.931	91	2340	51.93	ug/L #	91
19] m&p-Xylene	13.121	91	3744	105.48	ug/L #	96
20] o-Xylene	13.741	91	2018	52.57	ug/L #	94
21] 1,1,2,2-Tetrachloroethane	14.835	83	847	50.63	ug/L #	96
22] 1,3,5-Trimethylbenzene	15.307	105	2481	55.02	ug/L #	98
23] 1,2,4-Trimethylbenzene	15.868	105	2781	59.21	ug/L #	100
24] Naphthalene	17.882	128	7992	91.11	ug/L #	100
25) 2-Fluorotoluene SCAN	10.925	109	88784	4584.03	ug/L	96
27) trans-1,2-Dichloroethe...	4.233	61	217	49.03	ug/L #	38
28) 1,1-Dichloroethane SCAN	4.962	63	299	50.41	ug/L #	1
29) cis-1,2-Dichloroethene...	6.004	61	193	32.25	ug/L #	1
30) Chloroform SCAN	6.563	83	962	152.02	ug/L #	37
31) 1,1,1-Trichloroethane ...	6.830	97	466	78.81	ug/L	74
33) Benzene SCAN	7.426	78	5055	340.52	ug/L	95
34) 1,2-Dichloroethane SCAN	7.463	62	639	136.53	ug/L #	1
35) Trichloroethene SCAN	8.507	130	263	69.51	ug/L #	19
37) Toluene SCAN	10.537	91	1419	65.27	ug/L #	95
38) 1,1,2-Trichloroethane ...	11.177	97	395	76.27	ug/L #	28
40) Chlorobenzene SCAN	12.723	112	1846	113.90	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.874	131	204	42.39	ug/L #	38
42) Ethylbenzene SCAN	12.922	91	1787	61.66	ug/L #	74
43) m&p-Xylene SCAN	13.128	91	2362	54.63	ug/L	85
44) o-Xylene SCAN	13.740	91	1591	66.89	ug/L #	59
46) 1,3,5-Trimethylbenzene...	15.301	105	1384	53.00	ug/L #	46
47) 1,2,4-Trimethylbenzene...	15.867	105	1845	68.23	ug/L #	58
48) Naphthalene SCAN	17.885	128	3642	73.87	ug/L	92

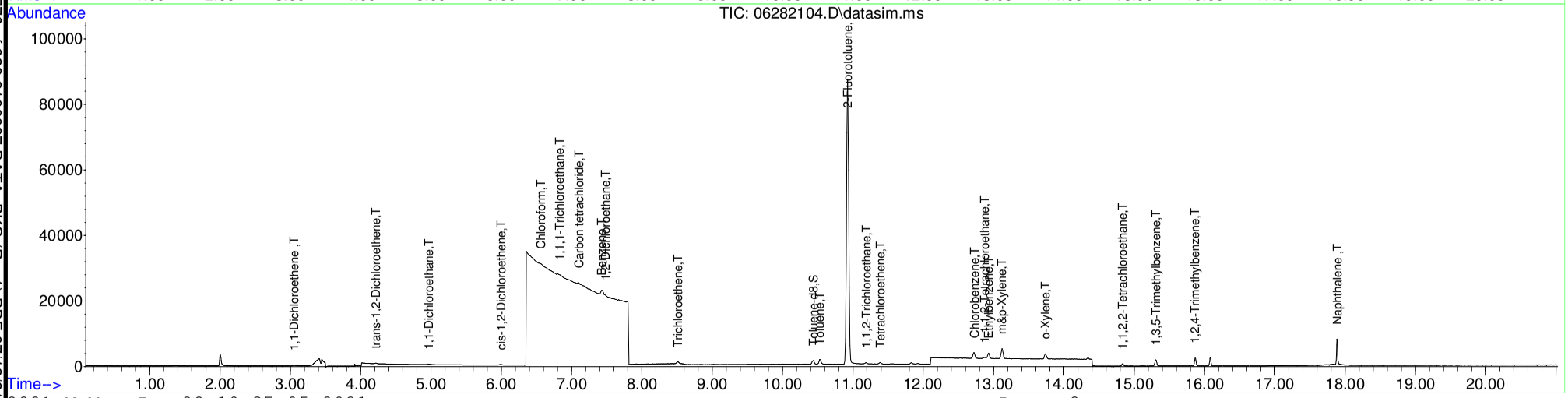
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062821\
Data File : 06282104.D
Acq On : 28 Jun 2021 10:15
InstName : AG5975C
Operator : TD
Sample : S21F068-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 10:37:04 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062821.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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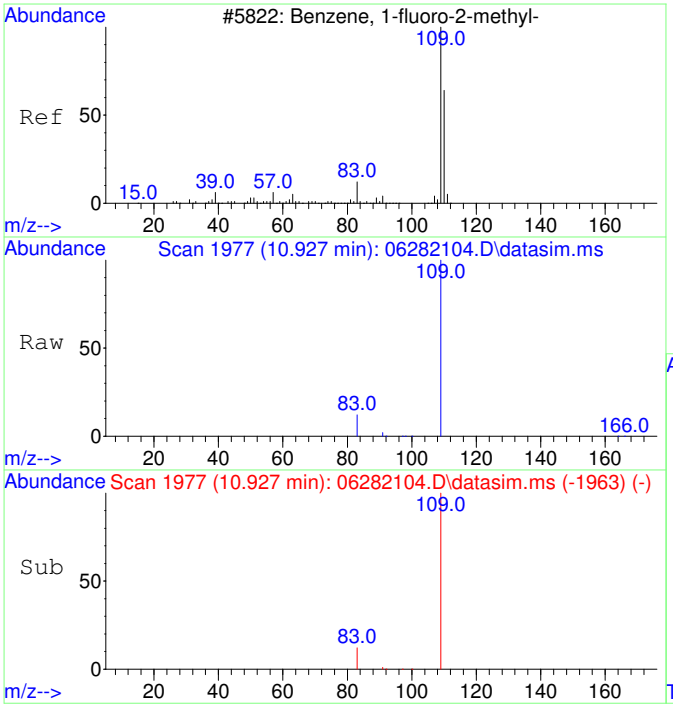
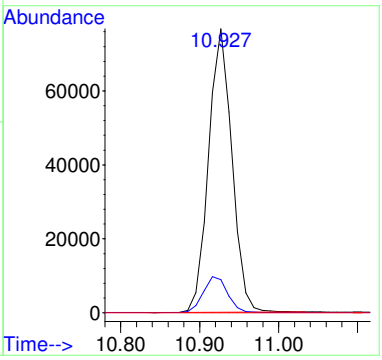
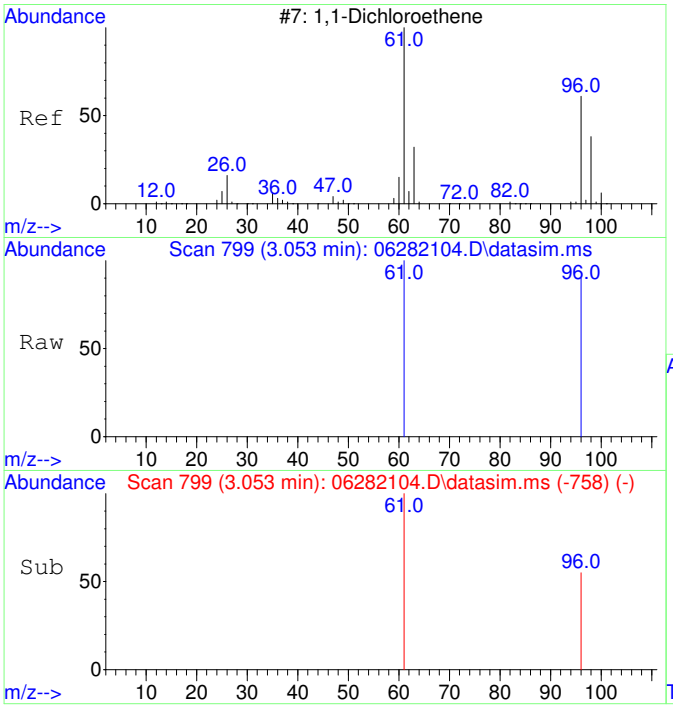


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:109 Resp: 157356

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

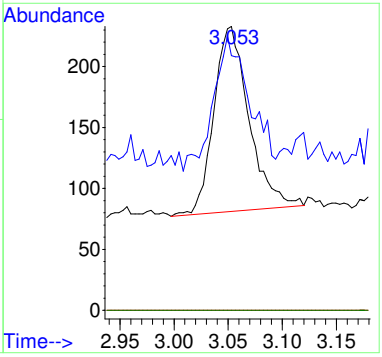


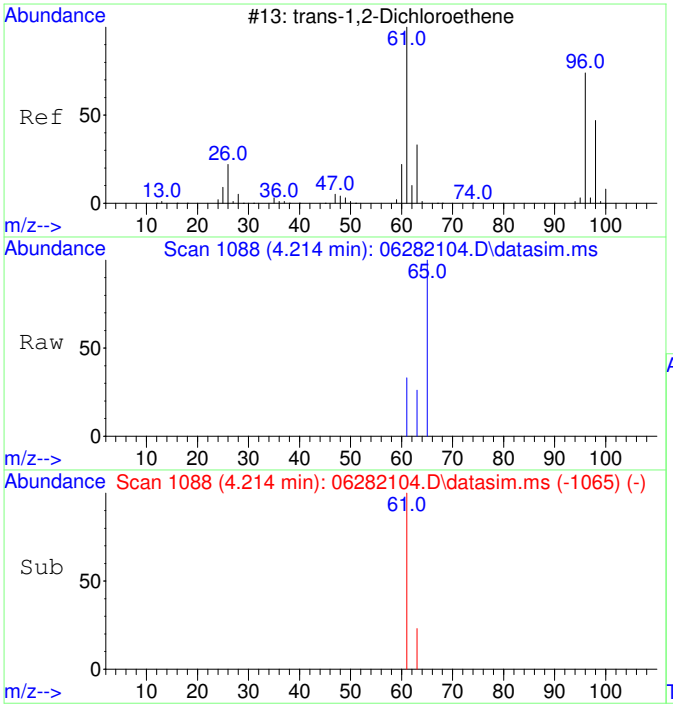


#2
1,1-Dichloroethene
Concen: 50.19 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 61 Resp: 344

Ion	Ratio	Lower	Upper
61	100		
96	67.7	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

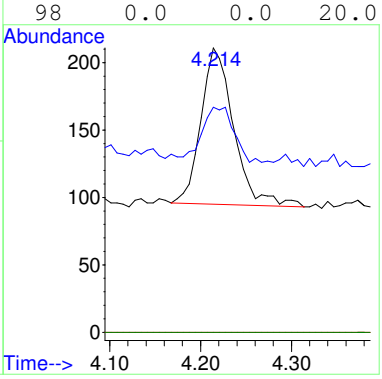


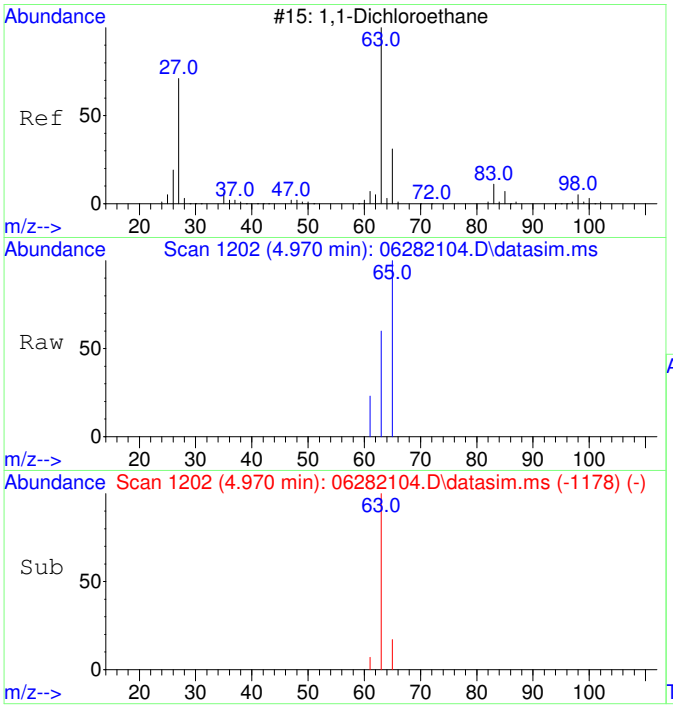


#3
trans-1,2-Dichloroethene
Concen: 49.17 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 61 Resp: 290

Ion	Ratio	Lower	Upper
61	100		
63	35.9	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

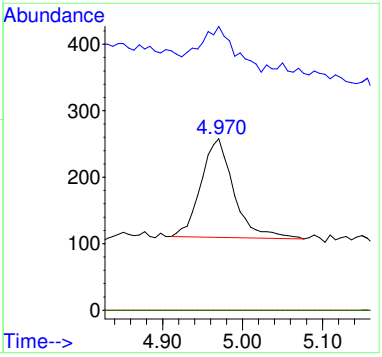


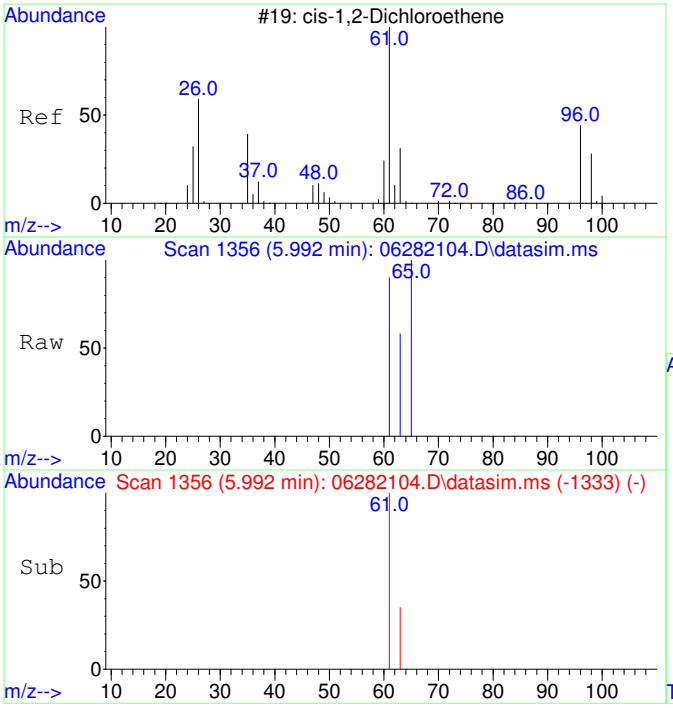


#4
1,1-Dichloroethane
Concen: 52.29 ug/L
RT: 4.970 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 63 Resp: 423

Ion	Ratio	Lower	Upper
63	100		
65	50.4	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

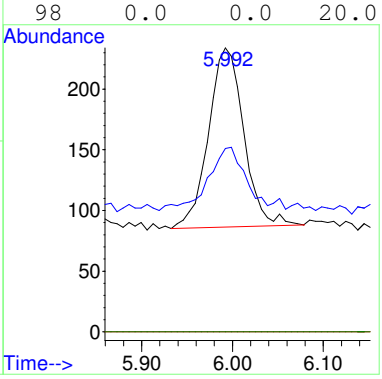


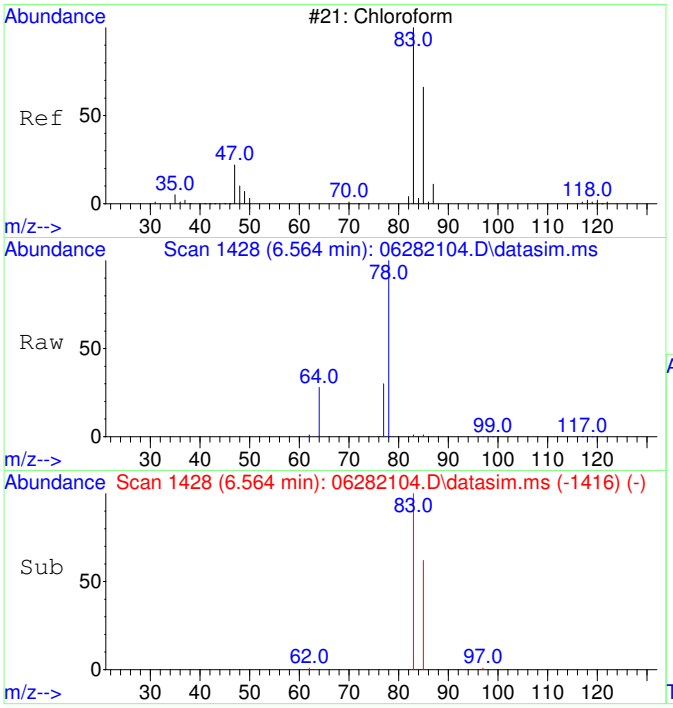


#5
cis-1,2-Dichloroethene
Concen: 51.60 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 61 Resp: 400

Ion	Ratio	Lower	Upper
61	100		
63	40.0	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

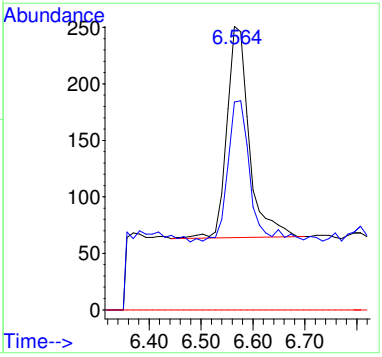


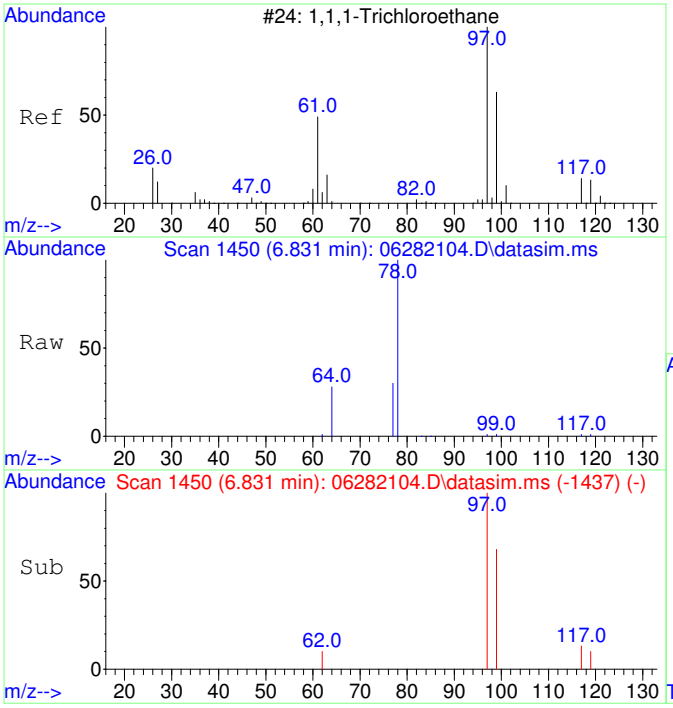


#6
Chloroform
Concen: 61.06 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 83 Resp: 557

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.5	94.5
87	0.0	0.0	20.0

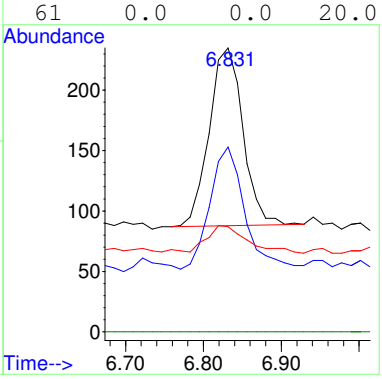


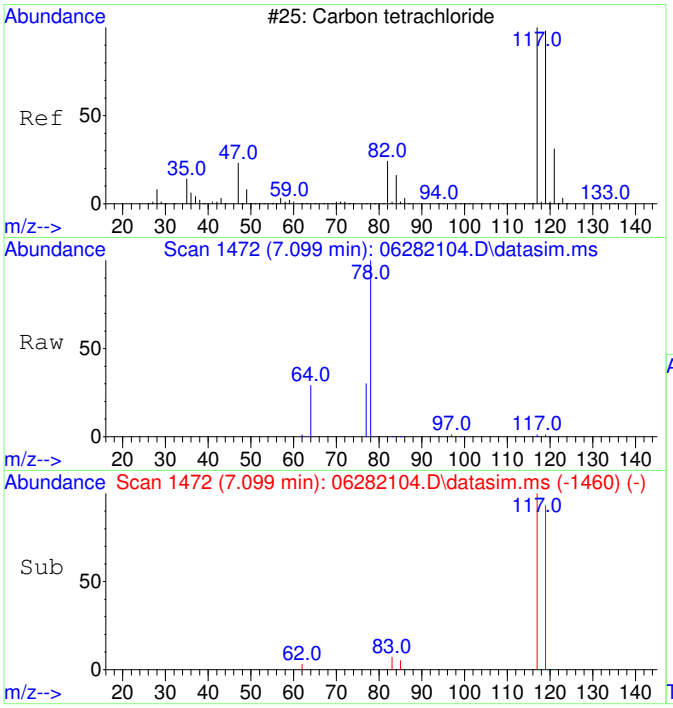


#7
1,1,1-Trichloroethane
Concen: 52.31 ug/L
RT: 6.831 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 97 Resp: 444

Ion	Ratio	Lower	Upper
97	100		
99	69.6	34.4	94.4
117	19.6	0.0	42.8
61	0.0	0.0	20.0

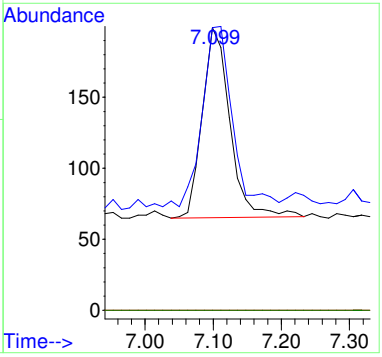


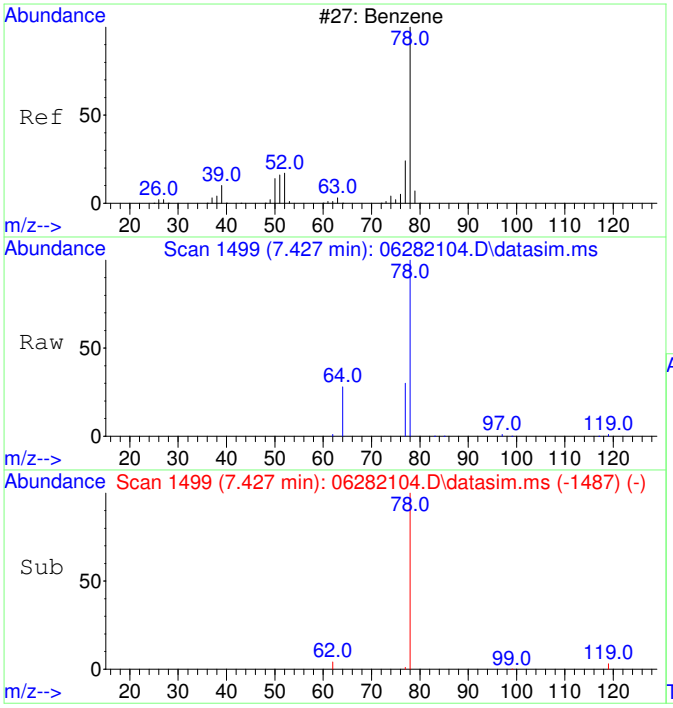


#8
Carbon tetrachloride
Concen: 50.85 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:117 Resp: 376

Ion	Ratio	Lower	Upper
117	100		
119	102.4	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

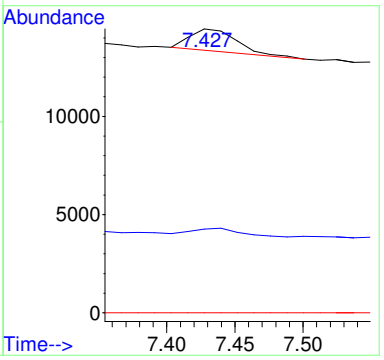


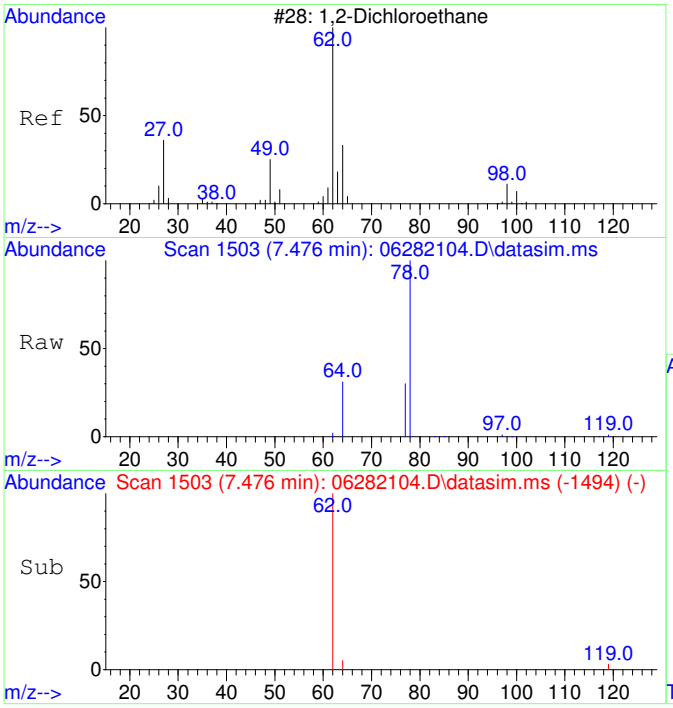


#9
Benzene
Concen: 96.49 ug/L
RT: 7.427 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 78 Resp: 2473

Ion	Ratio	Lower	Upper
78	100		
77	45.7	0.0	53.7
52	0.0	0.0	20.0

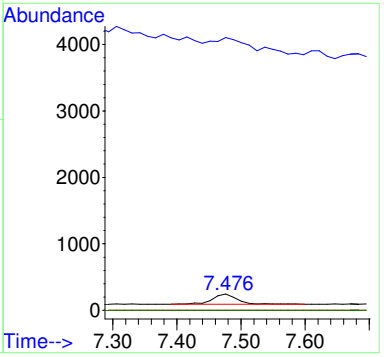


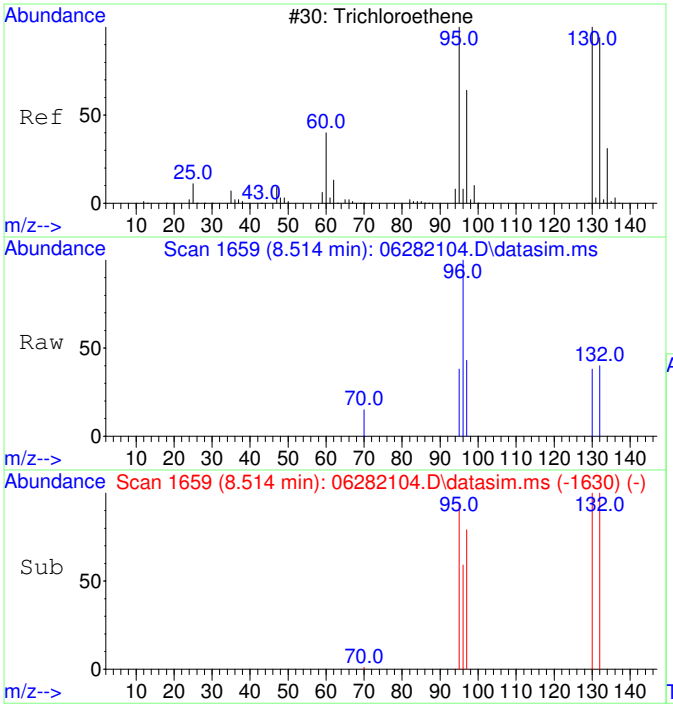


#10
1,2-Dichloroethane
Concen: 56.60 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 62 Resp: 399

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

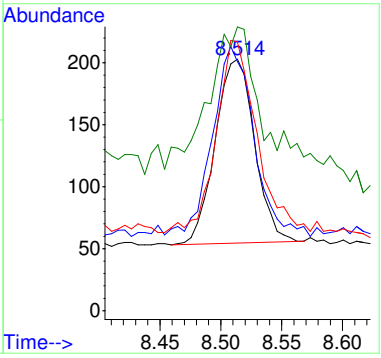


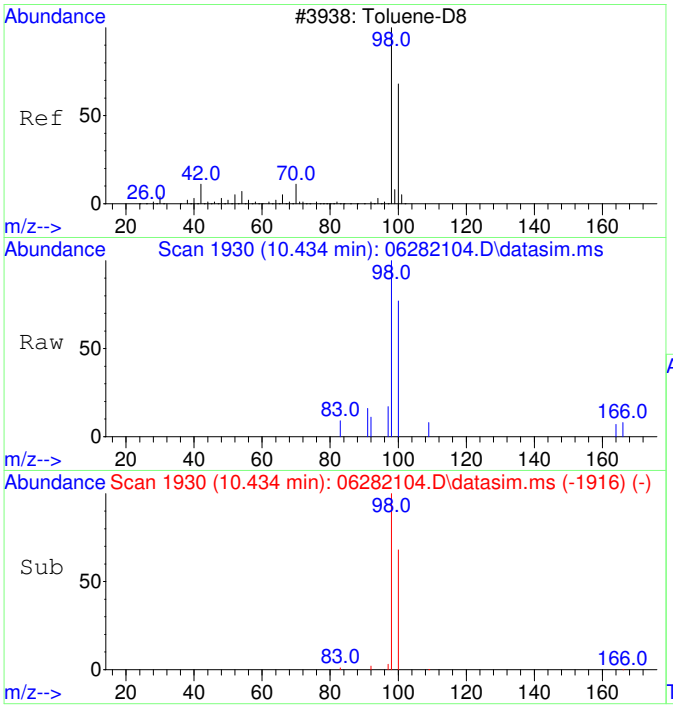


#11
Trichloroethene
Concen: 48.94 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.005 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:130 Resp: 334

Ion	Ratio	Lower	Upper
130	100		
95	108.1	65.8	125.8
132	106.0	75.8	115.8
97	103.9	42.0	82.0#

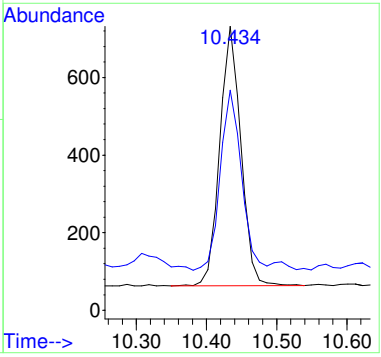


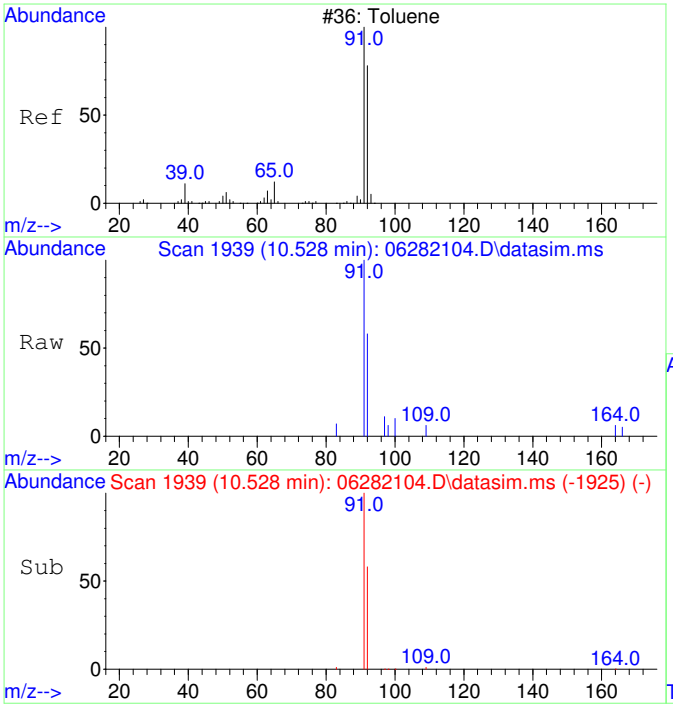


#12
Toluene-d8
Concen: 51.94 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 98 Resp: 1400

Ion	Ratio	Lower	Upper
98	100		
100	69.6	37.3	97.3

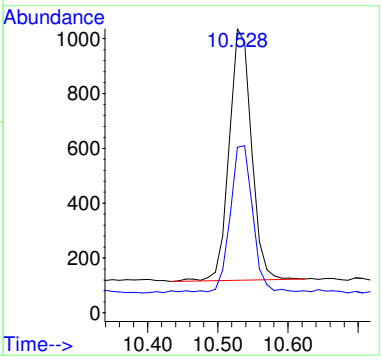


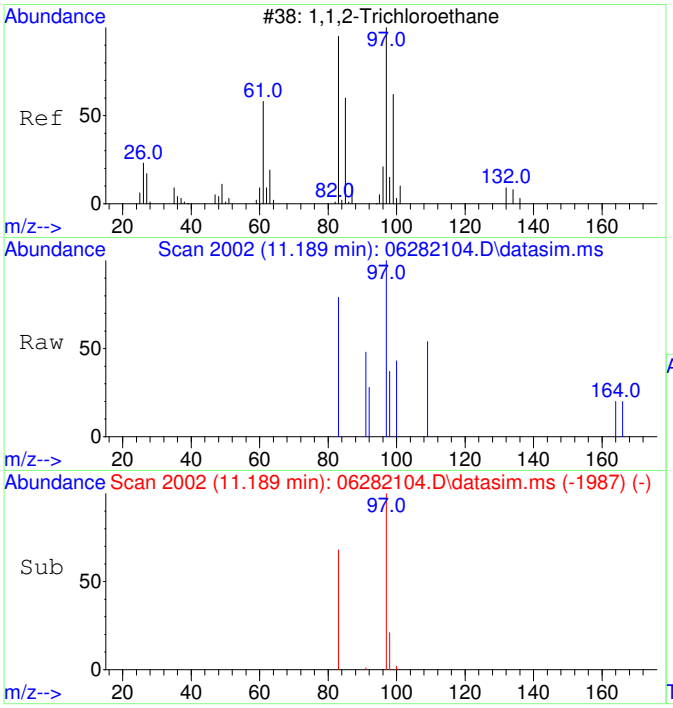


#13
Toluene
Concen: 57.89 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 2031

Ion	Ratio	Lower	Upper
91	100		
92	57.6	30.2	90.2

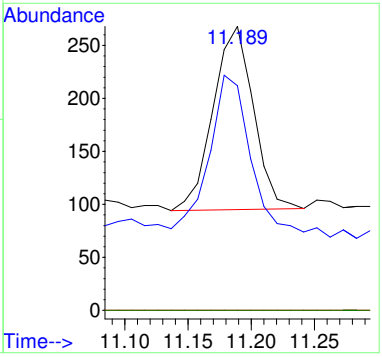


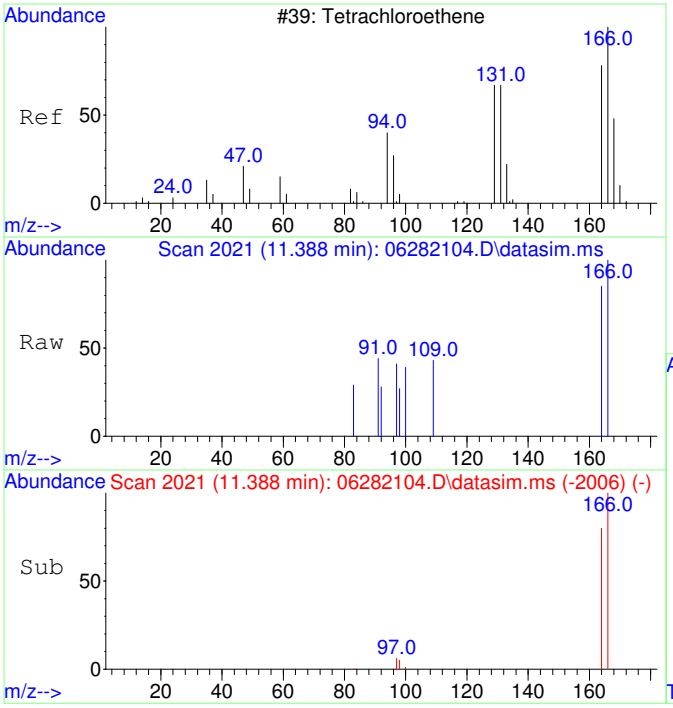


#14
1,1,2-Trichloroethane
Concen: 52.75 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 97 Resp: 385

Ion	Ratio	Lower	Upper
97	100		
83	97.4	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

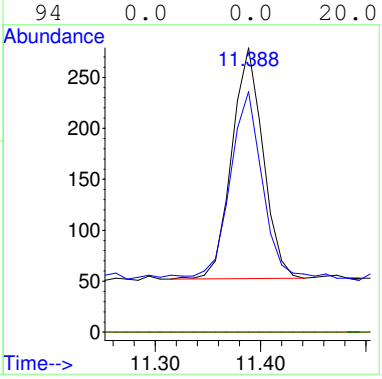


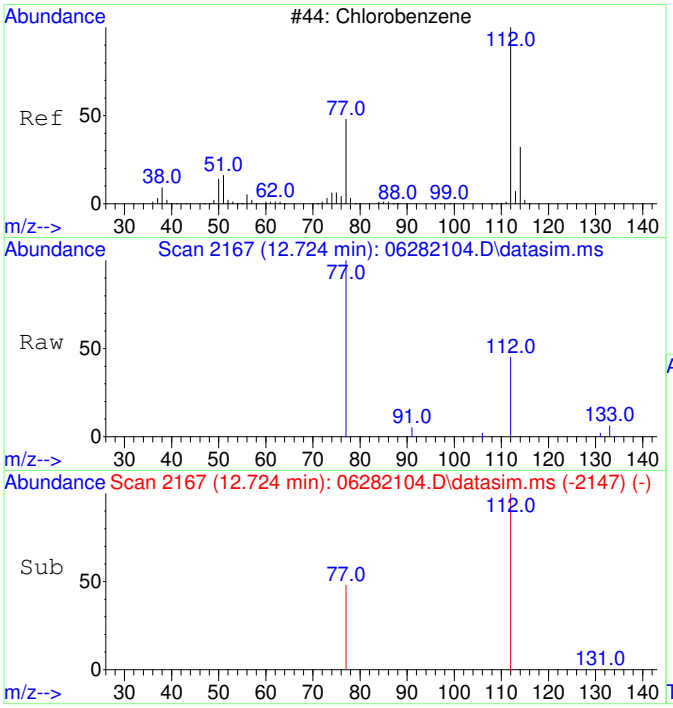


#15
Tetrachloroethene
Concen: 52.03 ug/L
RT: 11.388 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:166 Resp: 467

Ion	Ratio	Lower	Upper
166	100		
164	82.7	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

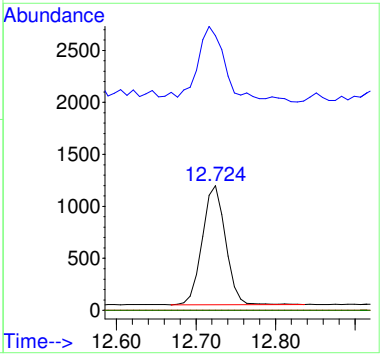


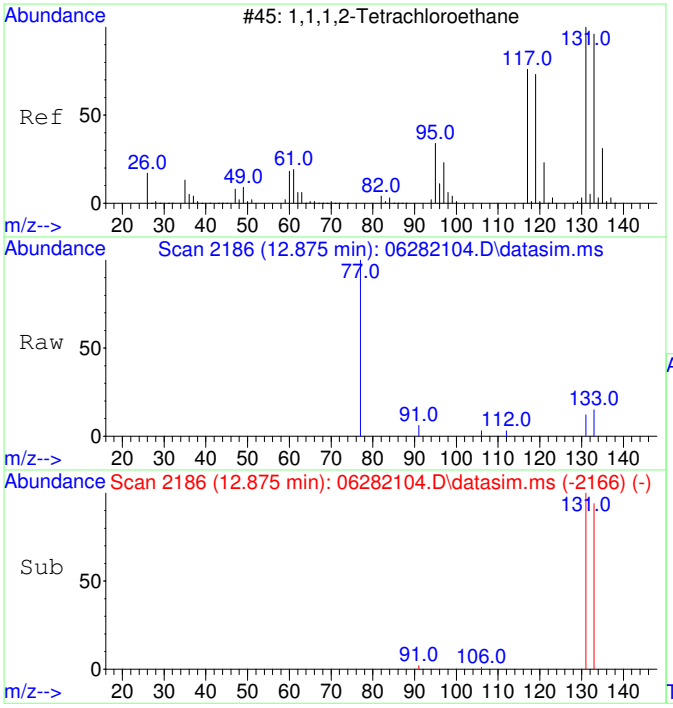


#16
Chlorobenzene
Concen: 76.19 ug/L
RT: 12.724 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:112 Resp: 2315

Ion	Ratio	Lower	Upper
112	100		
77	70.8	27.0	87.0
114	0.0	0.0	20.0
51	0.0	0.0	20.0

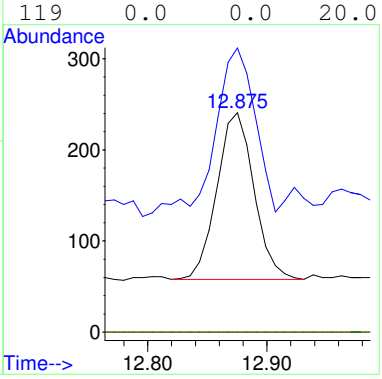


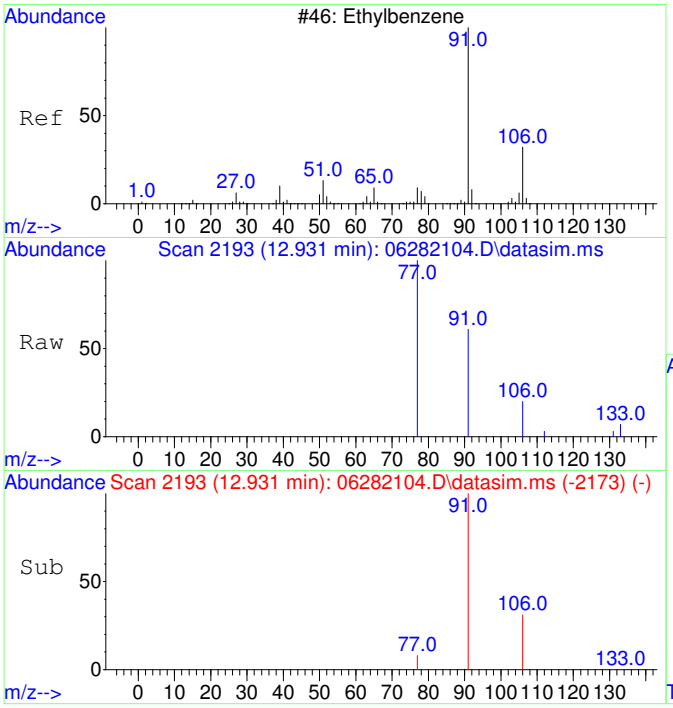


#17
1,1,1,2-Tetrachloroethane
Concen: 48.98 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:131 Resp: 396

Ion	Ratio	Lower	Upper
131	100		
133	112.6	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

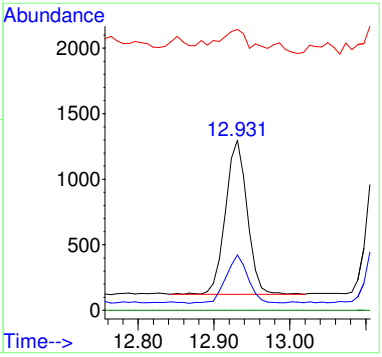


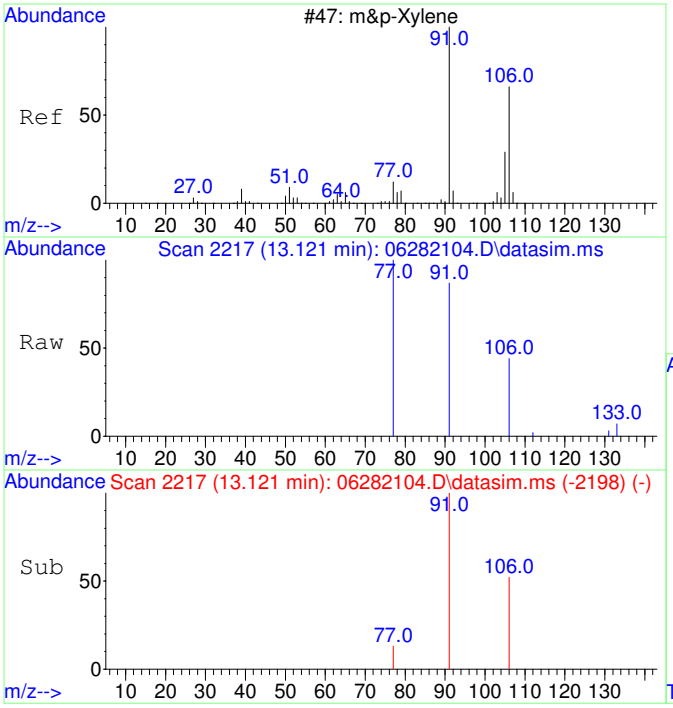


#18
Ethylbenzene
Concen: 51.93 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 2340

Ion	Ratio	Lower	Upper
91	100		
106	31.4	2.8	62.8
77	19.8	0.0	38.2
105	0.0	0.0	20.0

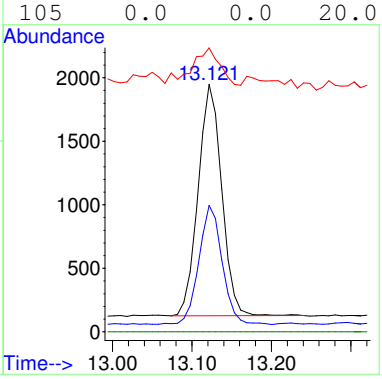


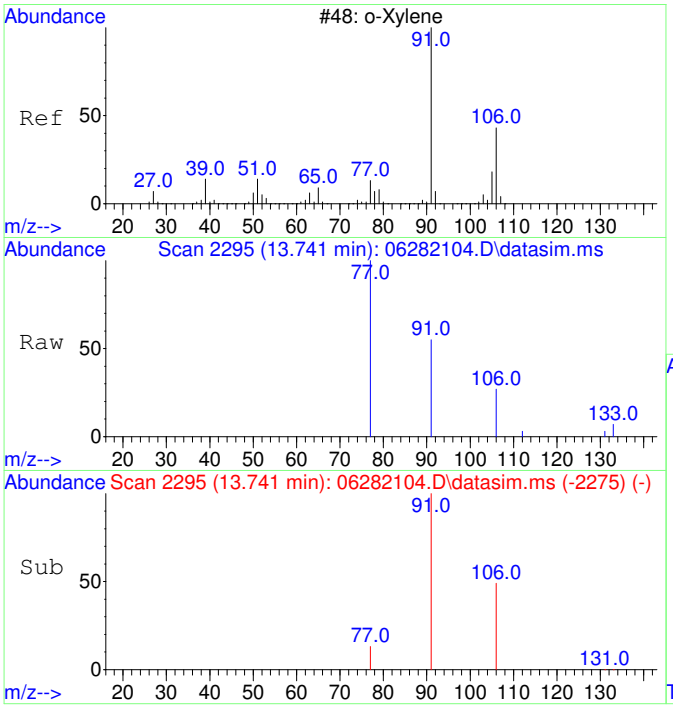


#19
m&p-Xylene
Concen: 105.48 ug/L
RT: 13.121 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 3744

Ion	Ratio	Lower	Upper
91	100		
106	50.8	21.4	81.4
77	19.9	0.0	42.7
105	0.0	0.0	20.0

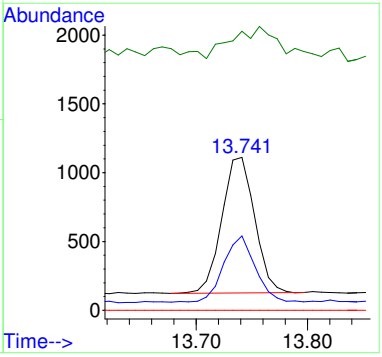


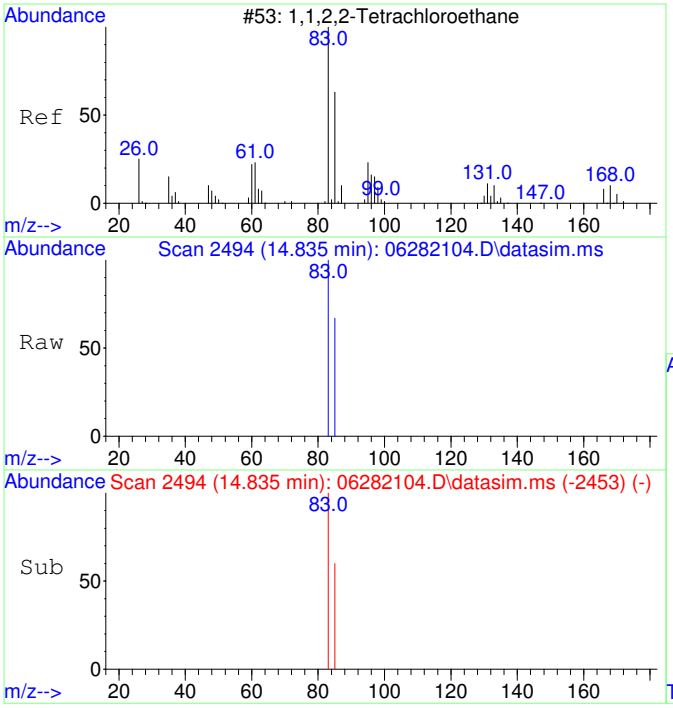


#20
o-Xylene
Concen: 52.57 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 2018

Ion	Ratio	Lower	Upper
91	100		
106	46.8	18.7	78.7
105	0.0	0.0	30.0
77	33.9	7.3	47.3

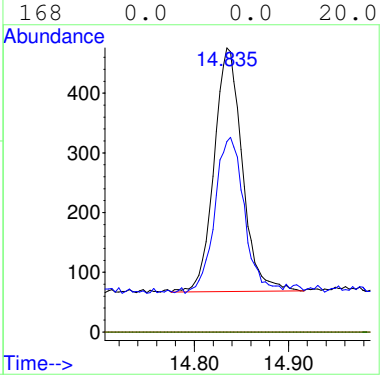


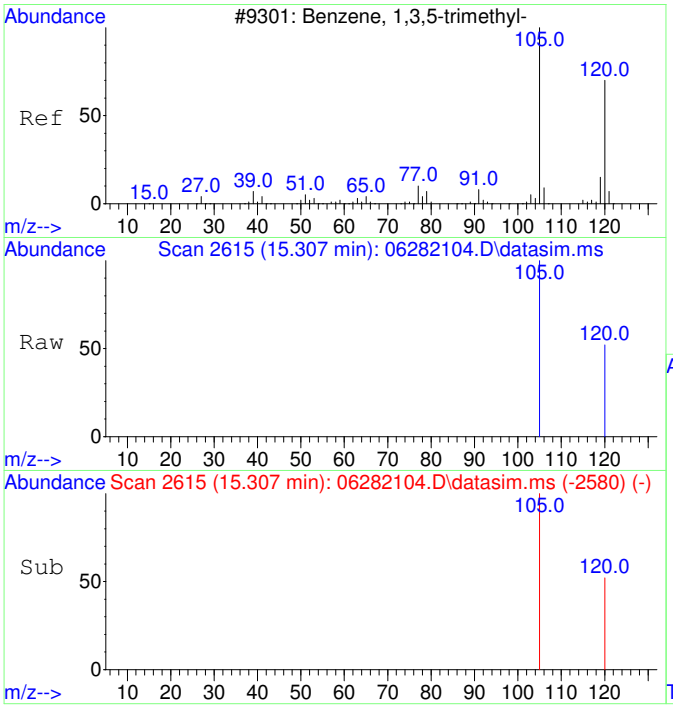


#21
1,1,2,2-Tetrachloroethane
Concen: 50.63 ug/L
RT: 14.835 min Scan# 2494
Delta R.T. 0.004 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 83 Resp: 847

Ion	Ratio	Lower	Upper
83	100		
85	67.4	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

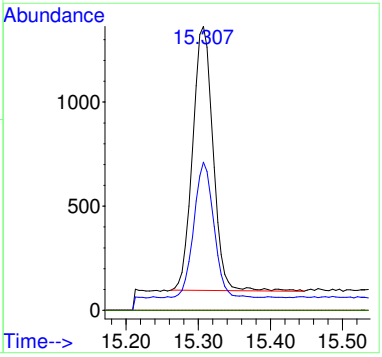


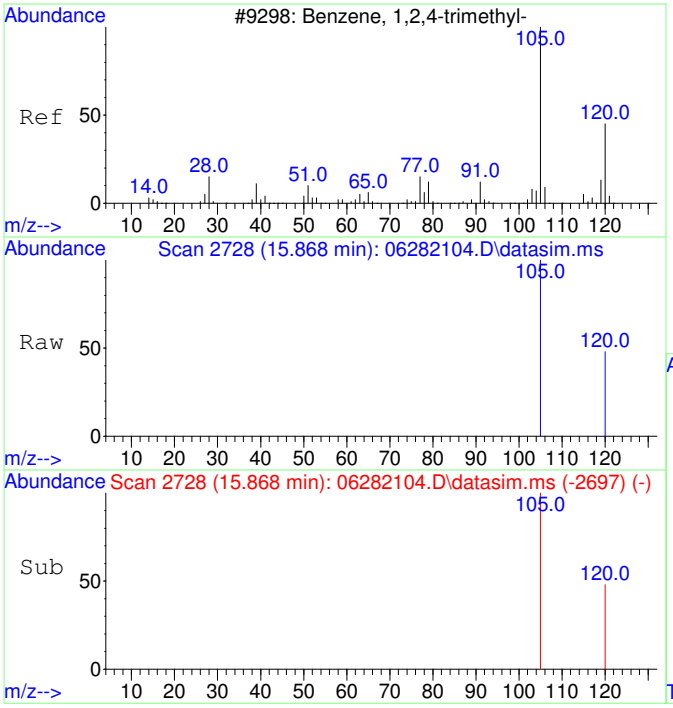


#22
1,3,5-Trimethylbenzene
Concen: 55.02 ug/L
RT: 15.307 min Scan# 2615
Delta R.T. 0.005 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:105 Resp: 2481

Ion	Ratio	Lower	Upper
105	100		
120	49.4	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

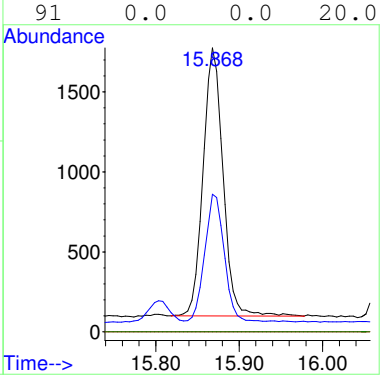


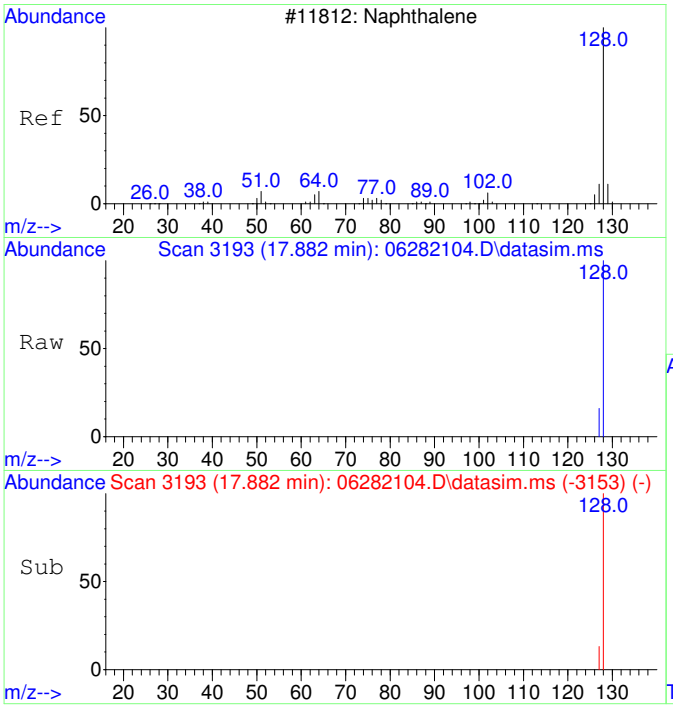


#23
1,2,4-Trimethylbenzene
Concen: 59.21 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:105 Resp: 2781

Ion	Ratio	Lower	Upper
105	100		
120	46.2	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

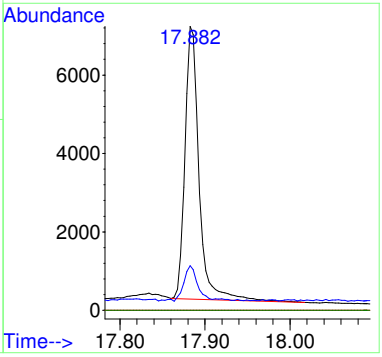


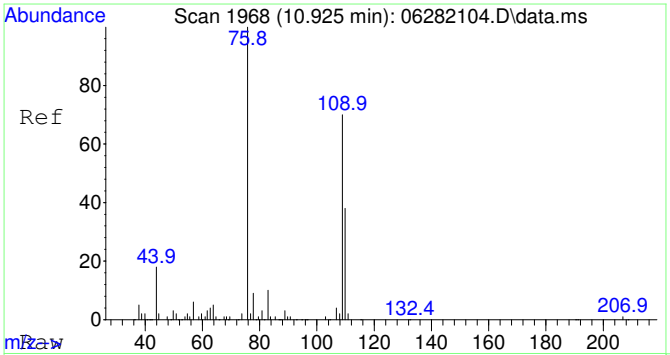


#24
Naphthalene
Concen: 91.11 ug/L
RT: 17.882 min Scan# 3193
Delta R.T. -0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:128 Resp: 7992

Ion	Ratio	Lower	Upper
128	100		
127	12.4	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

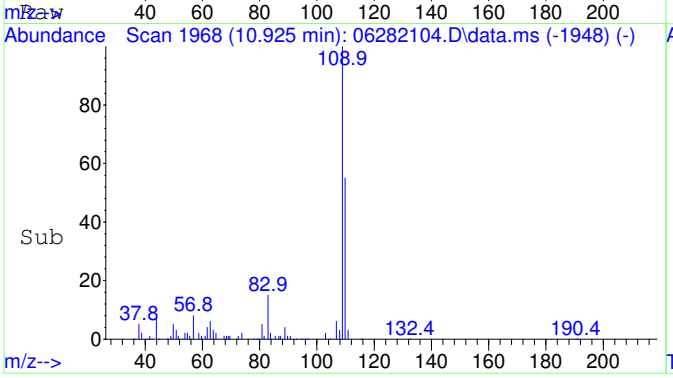


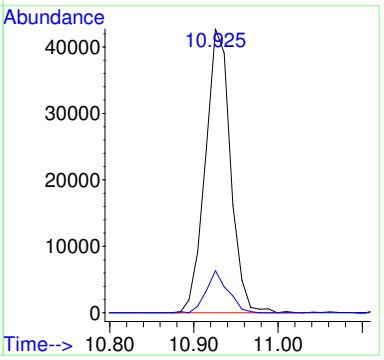


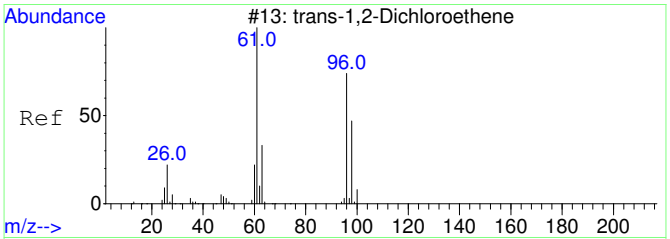
#25
2-Fluorotoluene SCAN
Concen: 4584.03 ug/L
RT: 10.925 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:109 Resp: 88784

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	44.5



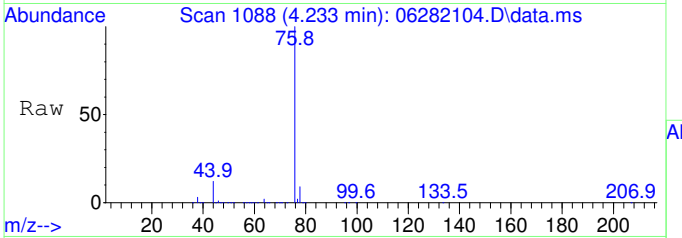


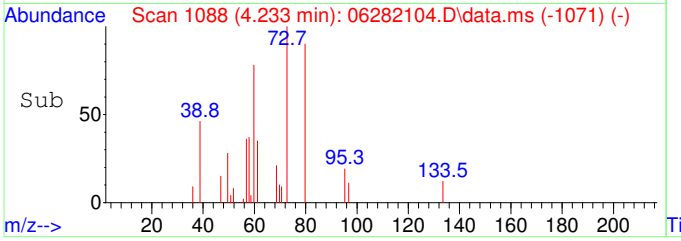


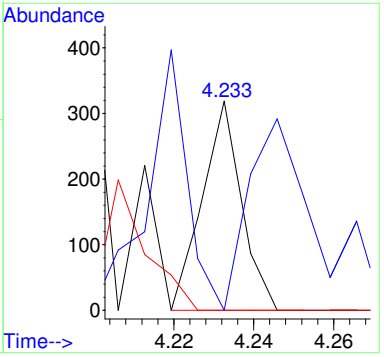
#27
trans-1,2-Dichloroethene SCAN
Concen: 49.03 ug/L
RT: 4.233 min Scan# 1088
Delta R.T. 0.013 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

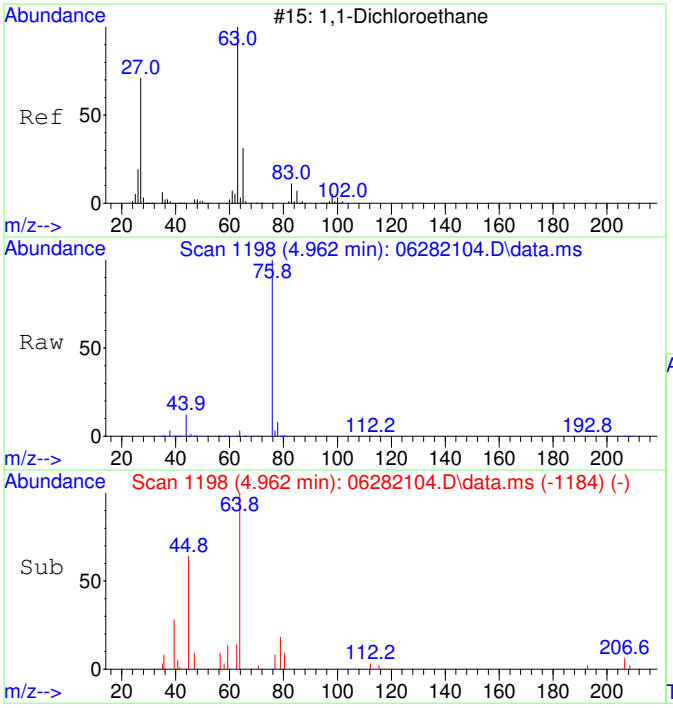
Tgt Ion: 61 Resp: 217

Ion	Ratio	Lower	Upper
61	100		
96	126.3	49.3	109.3#
98	0.0	24.0	84.0#





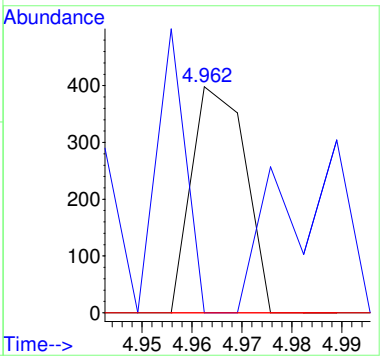


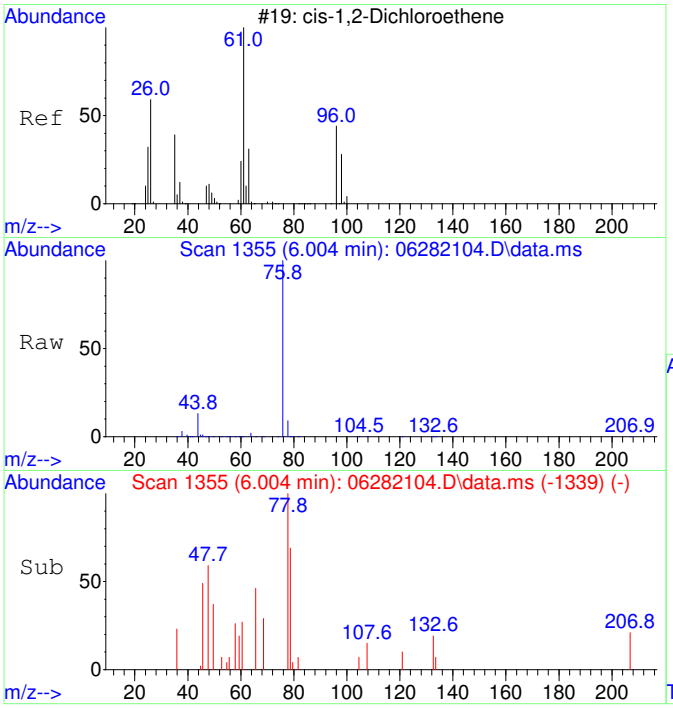


#28
1,1-Dichloroethane SCAN
Concen: 50.41 ug/L
RT: 4.962 min Scan# 1198
Delta R.T. -0.007 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 63 Resp: 299

Ion	Ratio	Lower	Upper
63	100		
65	105.4	0.0	57.3#
83	0.0	0.0	46.2

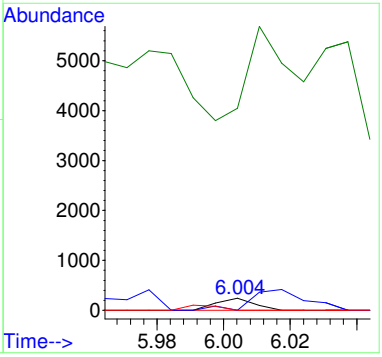


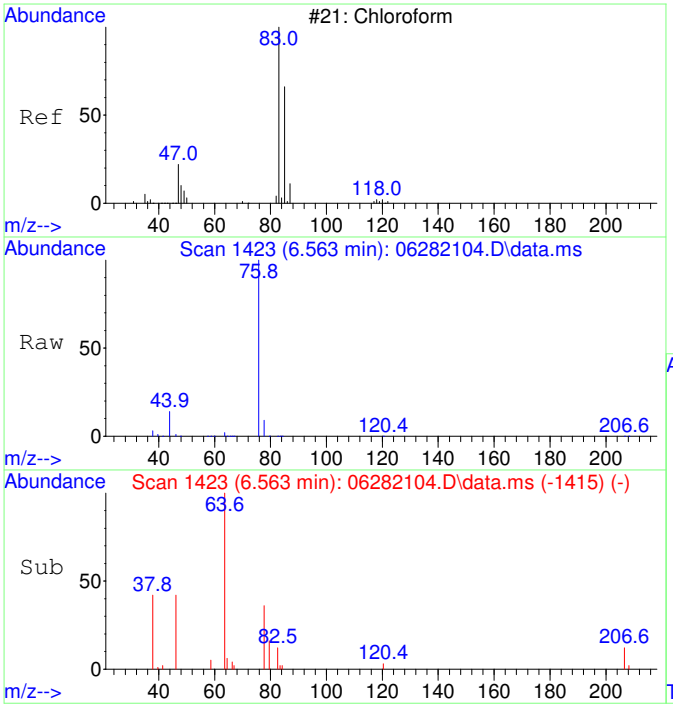


#29
cis-1,2-Dichloroethene SCAN
Concen: 32.25 ug/L
RT: 6.004 min Scan# 1355
Delta R.T. 0.007 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 61 Resp: 193

Ion	Ratio	Lower	Upper
61	100		
96	250.3	36.9	96.9#
98	0.0	12.1	72.1#
64	1656.0	0.0	32.6#

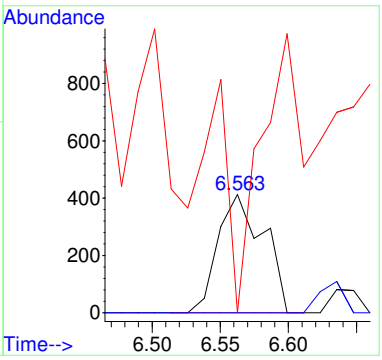


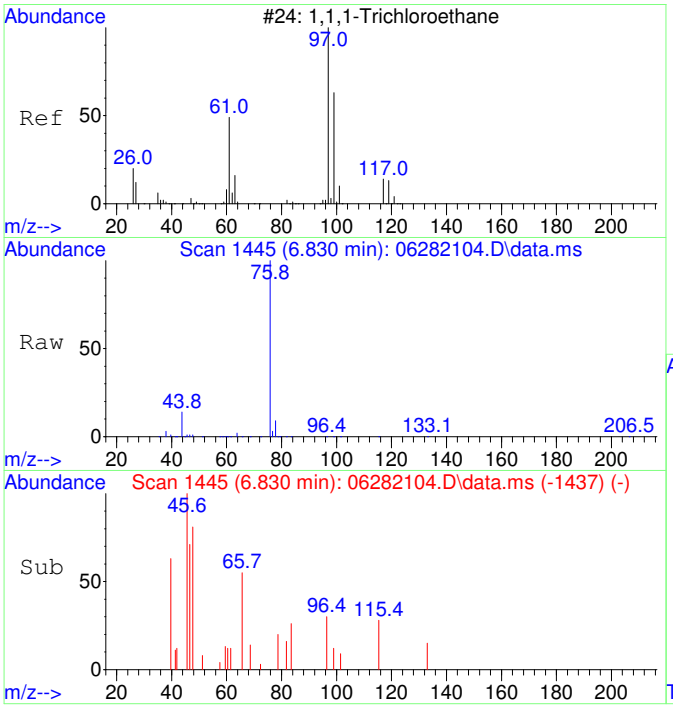


#30
Chloroform SCAN
Concen: 152.02 ug/L
RT: 6.563 min Scan# 1423
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 83 Resp: 962

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	62.7	7.5	67.5

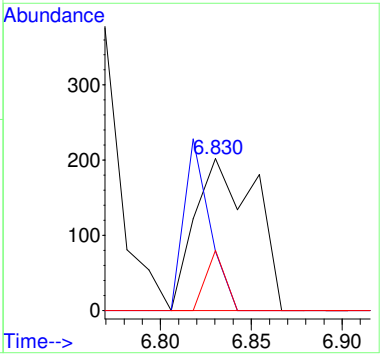


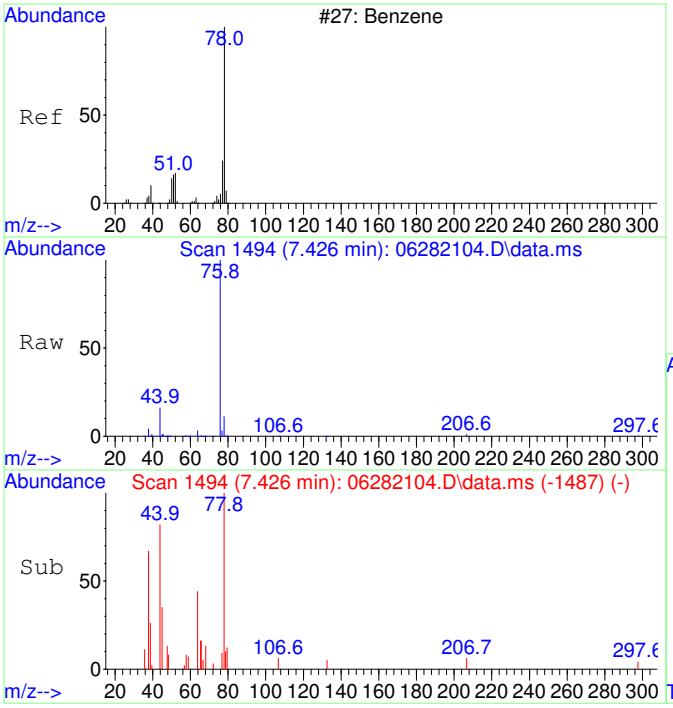


#31
1,1,1-Trichloroethane SCAN
Concen: 78.81 ug/L
RT: 6.830 min Scan# 1445
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 97 Resp: 466

Ion	Ratio	Lower	Upper
97	100		
99	48.1	26.5	86.5
61	12.4	11.4	71.4

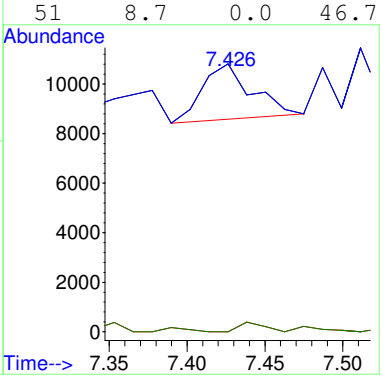


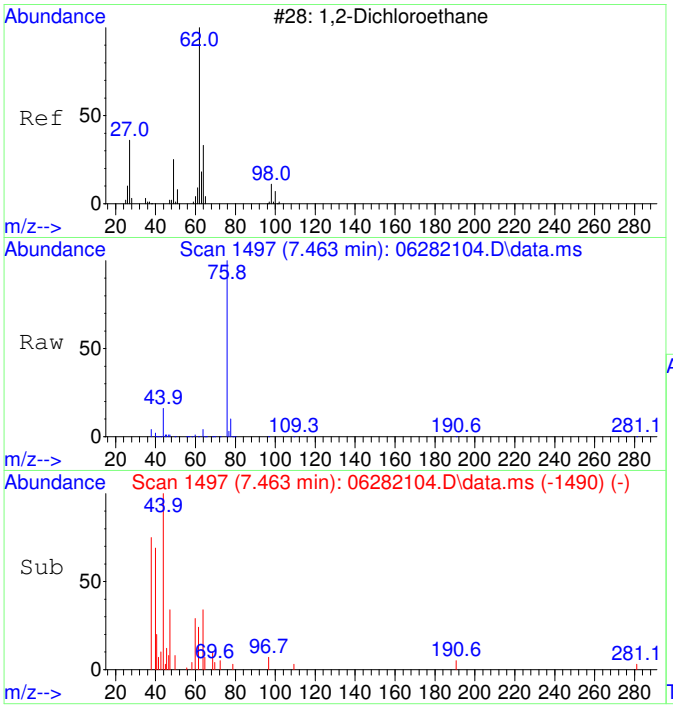


#33
Benzene SCAN
Concen: 340.52 ug/L
RT: 7.426 min Scan# 1494
Delta R.T. -0.012 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 78 Resp: 5055

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.7	0.0	46.7
51	8.7	0.0	46.7

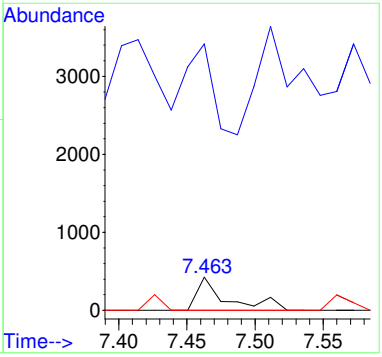


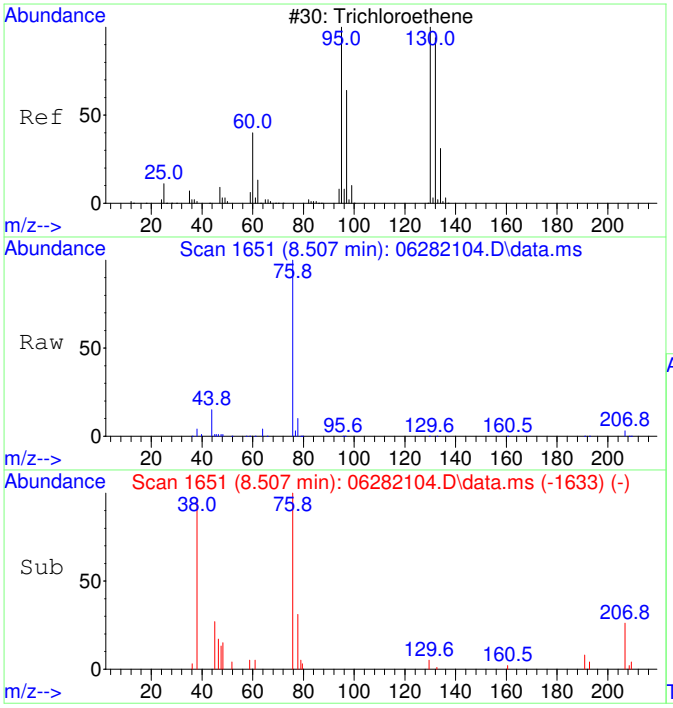


#34
1,2-Dichloroethane SCAN
Concen: 136.53 ug/L
RT: 7.463 min Scan# 1497
Delta R.T. -0.012 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 62 Resp: 639

Ion	Ratio	Lower	Upper
62	100		
64	174.3	13.3	73.3#
49	0.0	4.1	64.1#

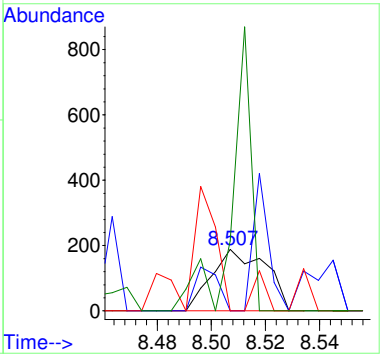


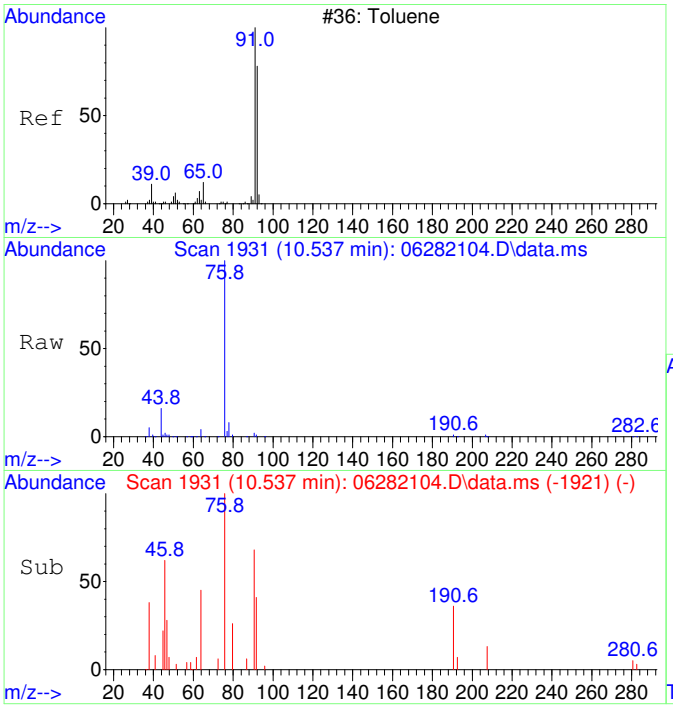


#35
Trichloroethene SCAN
Concen: 69.51 ug/L
RT: 8.507 min Scan# 1651
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:130 Resp: 263

Ion	Ratio	Lower	Upper
130	100		
95	63.1	60.0	120.0
132	0.0	54.3	114.3#
97	162.7	24.6	84.6#

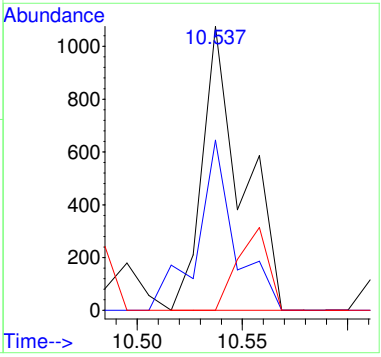


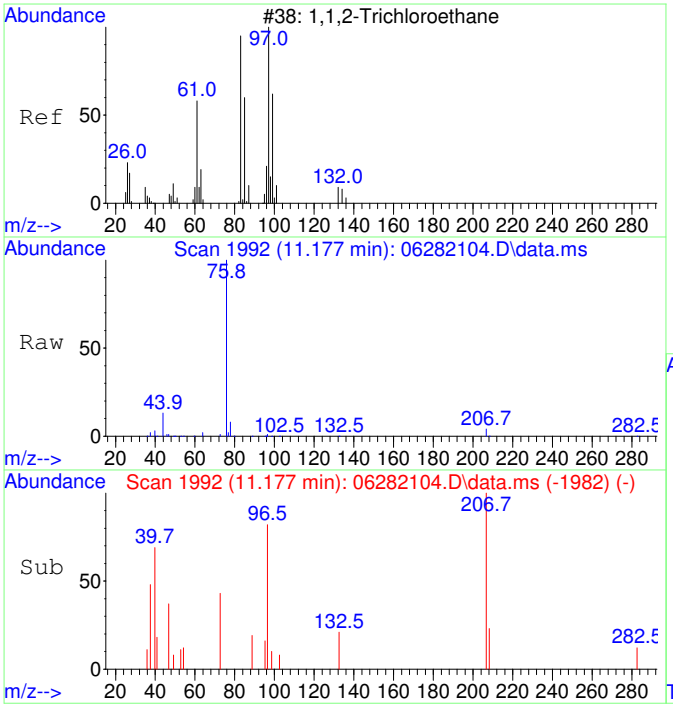


#37
Toluene SCAN
Concen: 65.27 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 1419

Ion	Ratio	Lower	Upper
91	100		
92	56.6	26.5	86.5
65	0.0	0.0	40.6

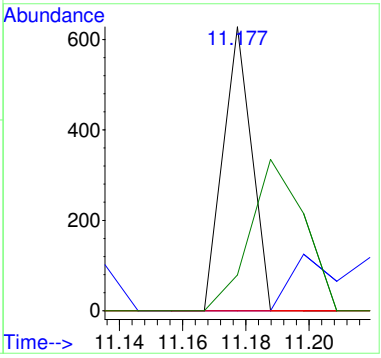


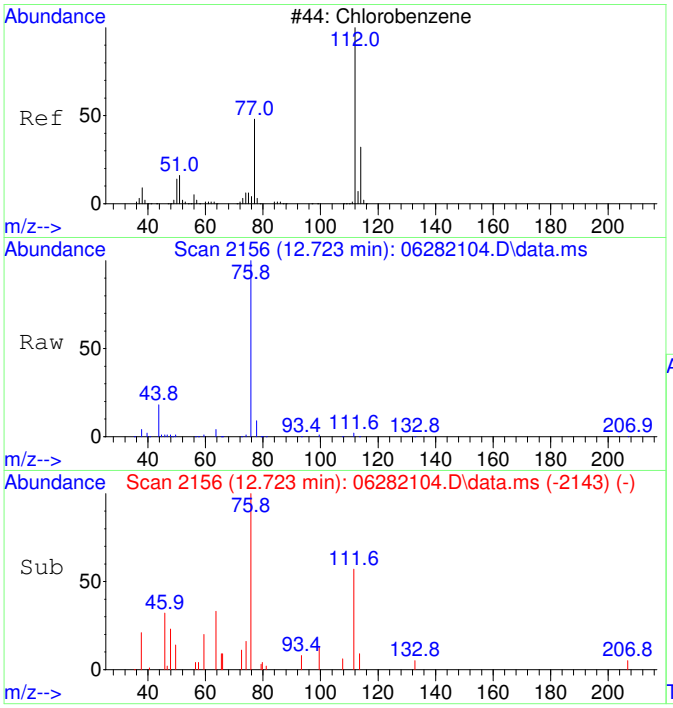


#38
1,1,2-Trichloroethane SCAN
Concen: 76.27 ug/L
RT: 11.177 min Scan# 1992
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 97 Resp: 395

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	100.3	37.5	97.5#

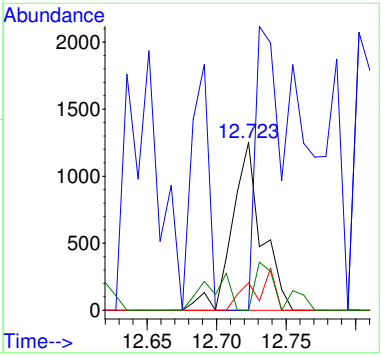


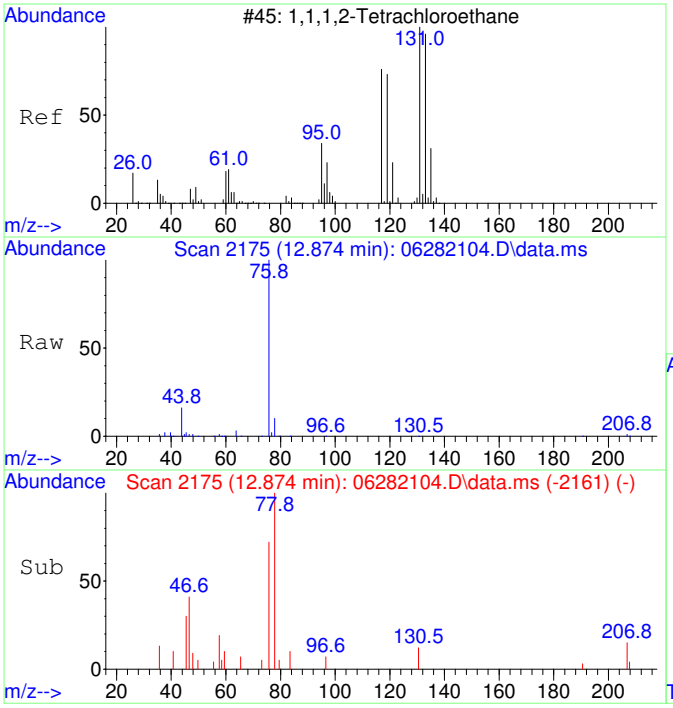


#40
Chlorobenzene SCAN
Concen: 113.90 ug/L
RT: 12.723 min Scan# 2156
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:112 Resp: 1846

Ion	Ratio	Lower	Upper
112	100		
77	318.1	48.5	108.5#
114	18.3	4.9	64.9
51	23.5	0.0	53.6

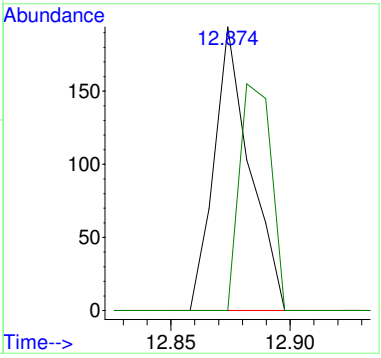


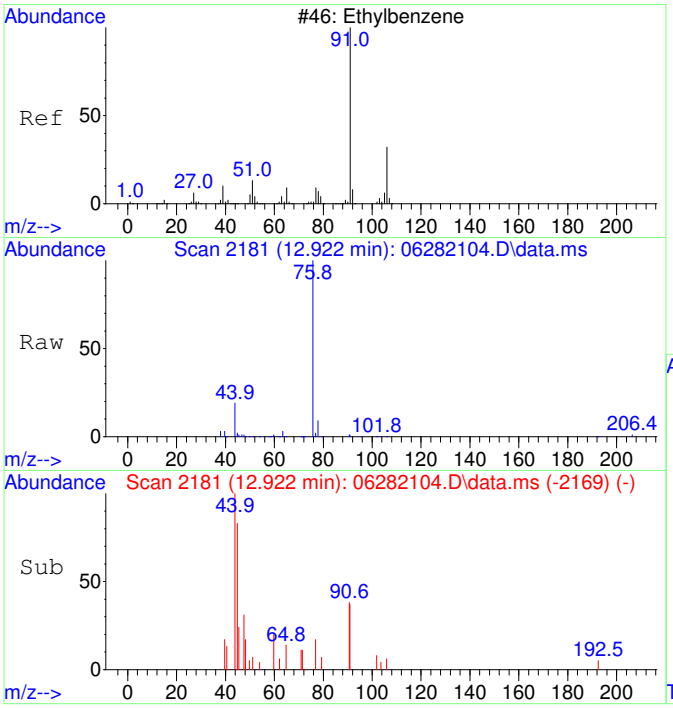


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 42.39 ug/L
RT: 12.874 min Scan# 2175
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:131 Resp: 204

Ion	Ratio	Lower	Upper
131	100		
133	0.0	61.4	121.4#
119	0.0	33.6	93.6#
117	70.1	39.6	99.6

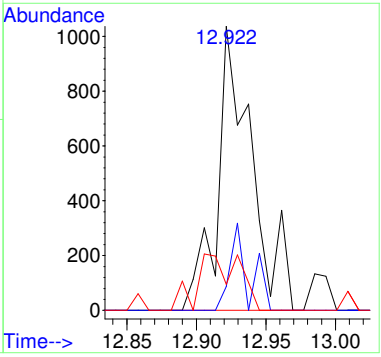


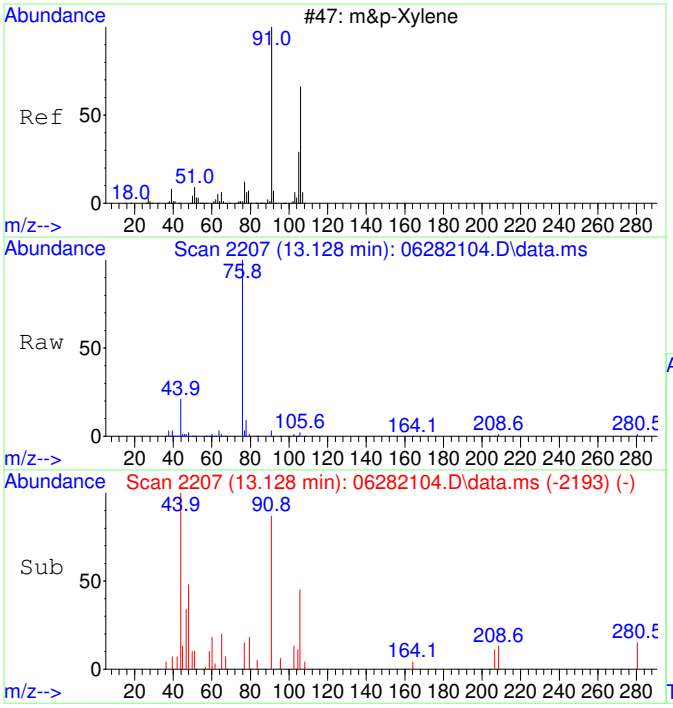


#42
Ethylbenzene SCAN
Concen: 61.66 ug/L
RT: 12.922 min Scan# 2181
Delta R.T. -0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 1787

Ion	Ratio	Lower	Upper
91	100		
106	16.3	0.5	60.5
51	0.0	0.0	39.6

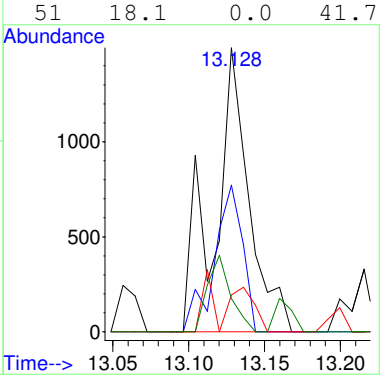


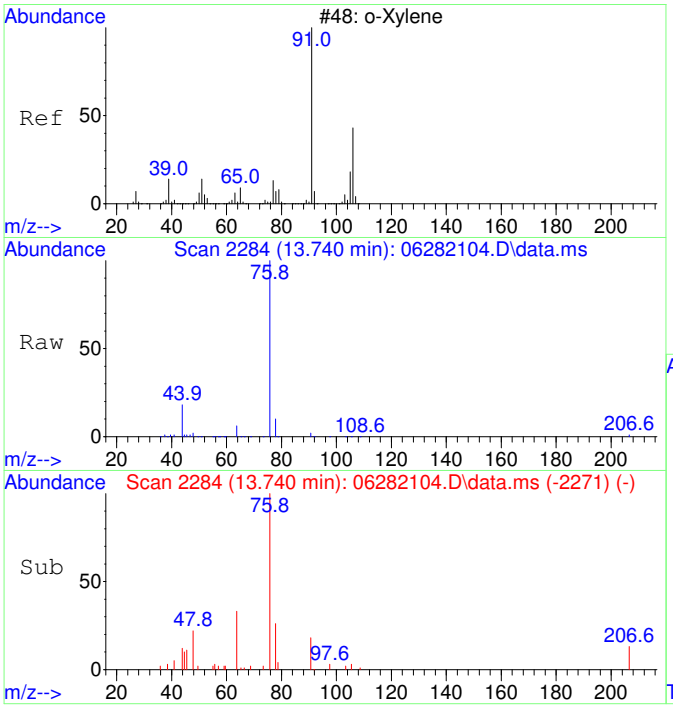


#43
m&p-Xylene SCAN
Concen: 54.63 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 2362

Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.2	81.2
105	11.4	0.0	51.6
51	18.1	0.0	41.7

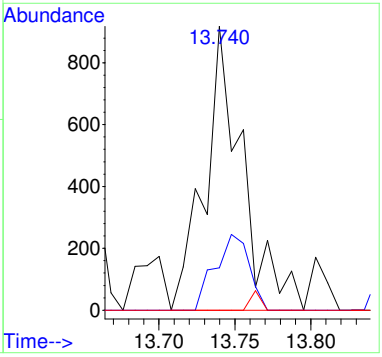


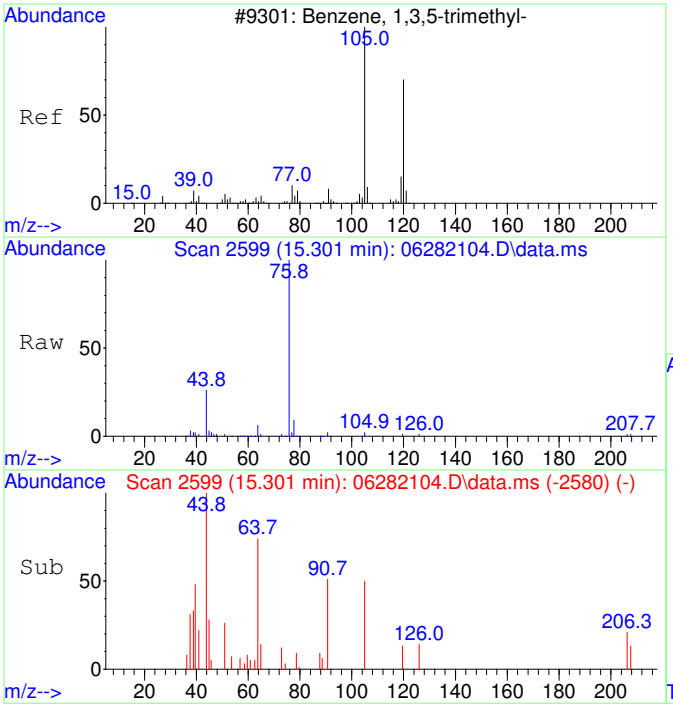


#44
o-Xylene SCAN
Concen: 66.89 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. 0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion: 91 Resp: 1591

Ion	Ratio	Lower	Upper
91	100		
106	24.1	19.1	79.1
105	0.0	0.0	55.6

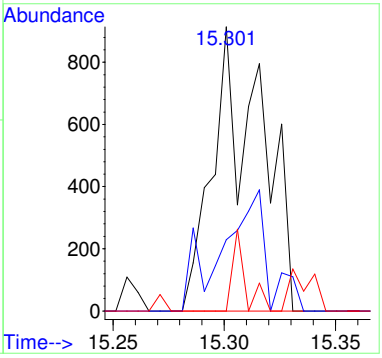


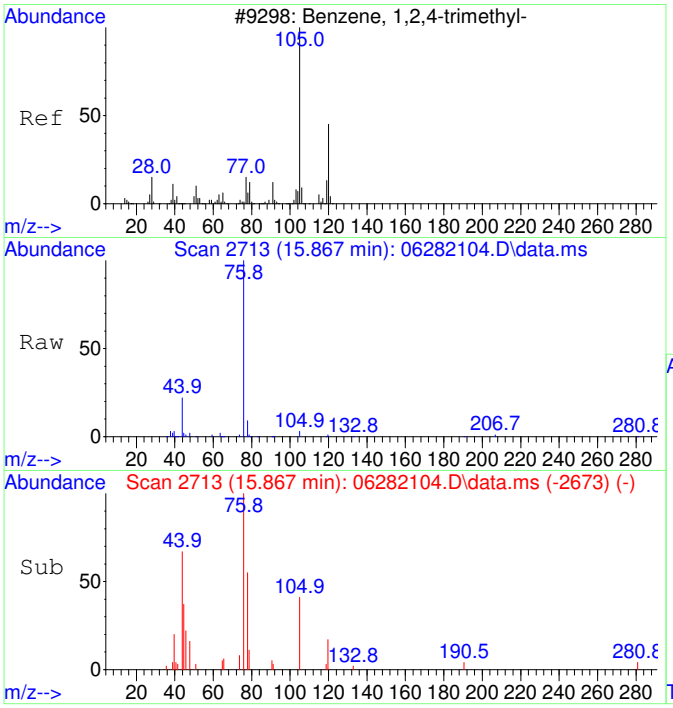


#46
1,3,5-Trimethylbenzene SCAN
Concen: 53.00 ug/L
RT: 15.301 min Scan# 2599
Delta R.T. -0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:105 Resp: 1384

Ion	Ratio	Lower	Upper
105	100		
120	5.8	20.2	80.2#
119	7.6	0.0	43.8

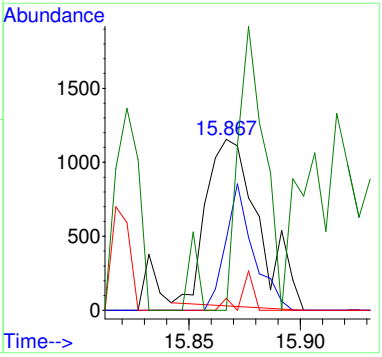


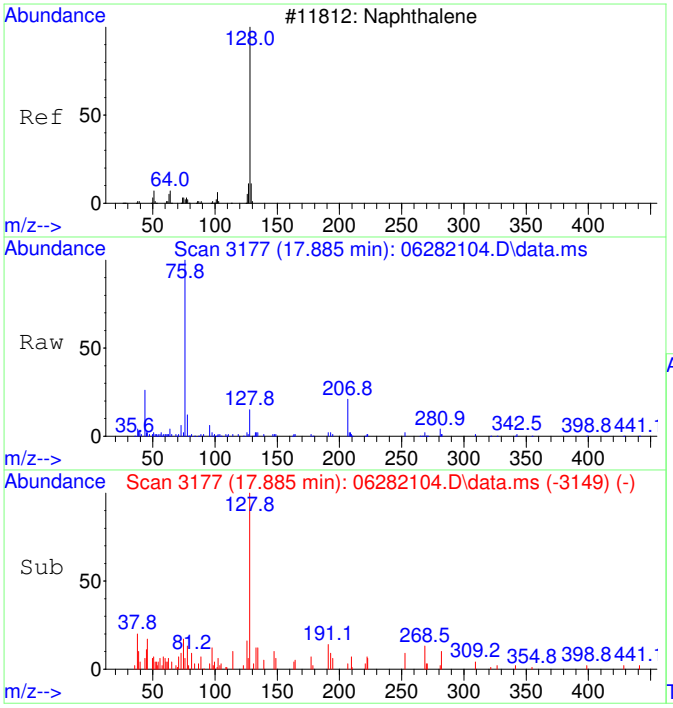


#47
1,2,4-Trimethylbenzene SCAN
Concen: 68.23 ug/L
RT: 15.867 min Scan# 2713
Delta R.T. -0.000 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:105 Resp: 1845

Ion	Ratio	Lower	Upper
105	100		
120	40.3	15.6	75.6
119	5.6	0.0	38.2
77	84.4	0.0	44.0#

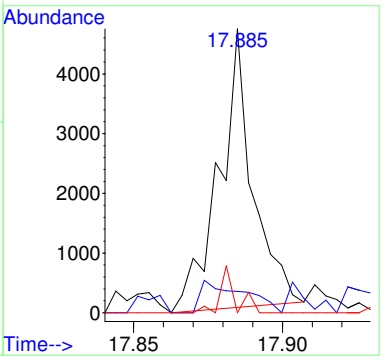




#48
Naphthalene SCAN
Concen: 73.87 ug/L
RT: 17.885 min Scan# 3177
Delta R.T. 0.004 min
Lab File: 06282104.D
Acq: 28 Jun 2021 10:15

Tgt Ion:128 Resp: 3642

Ion	Ratio	Lower	Upper
128	100		
127	15.2	0.0	41.1
129	7.6	0.0	39.5



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 21176E
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2104012
Sequence: S21F073

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
B21F080-MRL1	1,1-Dichloroethene	0.131	0.132	101	ug/m³ Air	50 - 150
	trans-1,2-Dichloroethene	0.160	0.171	107	ug/m³ Air	50 - 150
	1,1-Dichloroethane	0.157	0.167	106	ug/m³ Air	50 - 150
	cis-1,2-Dichloroethene	0.160	0.179	112	ug/m³ Air	50 - 150
	Chloroform	0.132	0.139	105	ug/m³ Air	50 - 150
	Trichloroethene	0.144	0.160	111	ug/m³ Air	50 - 150
	Tetrachloroethene	0.168	0.192	114	ug/m³ Air	50 - 150
	Toluene-d8	992	1010	102	ug/m³ Air	86 - 118

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292108.D
Acq On : 29 Jun 2021 11:31
InstName : AG5975C
Operator : TD
Sample : B21F080-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 29 11:53:07 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

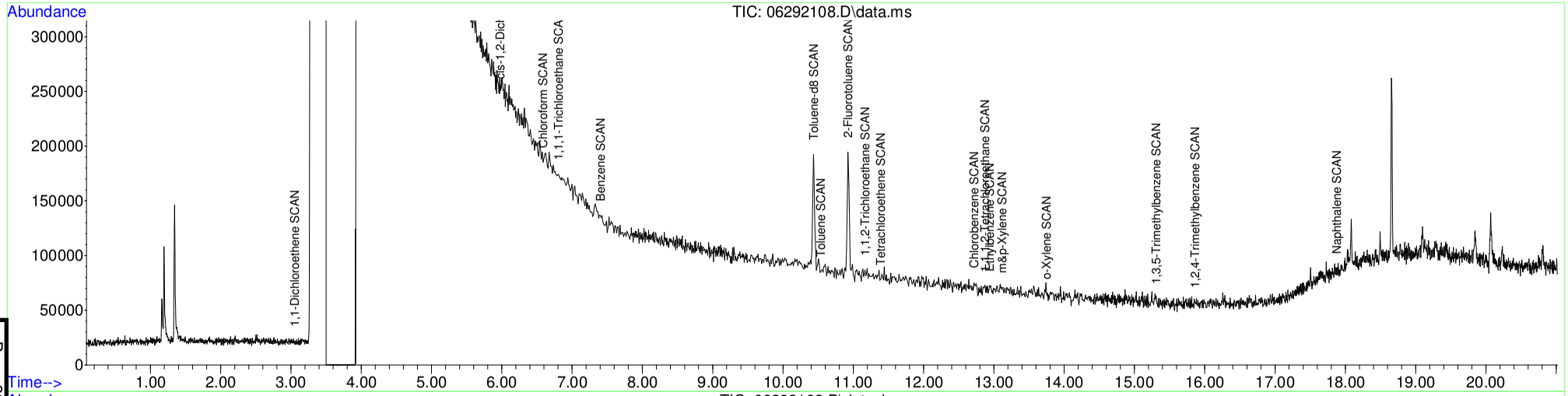
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.927	109	152864	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.434	98	132887	5075.06	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 101.50%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.050	61	336	50.46	ug/L #	90
3] trans-1,2-Dichloroethene	4.214	61	307	53.58	ug/L #	80
4] 1,1-Dichloroethane	4.971	63	417	53.06	ug/L #	63
5] cis-1,2-Dichloroethene	5.992	61	421	55.91	ug/L #	97
6] Chloroform	6.564	83	467	52.70	ug/L #	85
7] 1,1,1-Trichloroethane	6.832	97	479	58.09	ug/L #	93
8] Carbon tetrachloride	7.099	117	399	55.54	ug/L #	96
9] Benzene	7.428	78	1420	57.03	ug/L #	1
10] 1,2-Dichloroethane	7.476	62	385	56.22	ug/L #	43
11] Trichloroethene	8.514	130	368	55.51	ug/L #	87
13] Toluene	10.528	91	2046	60.03	ug/L	98
14] 1,1,2-Trichloroethane	11.189	97	402	56.70	ug/L #	90
15] Tetrachloroethene	11.389	166	499	57.23	ug/L #	90
16] Chlorobenzene	12.725	112	1404	47.57	ug/L #	48
17] 1,1,1,2-Tetrachloroethane	12.875	131	459	58.44	ug/L #	89
18] Ethylbenzene	12.931	91	2824	64.52	ug/L #	95
19] m&p-Xylene	13.122	91	4570	132.53	ug/L #	95
20] o-Xylene	13.741	91	2231	59.82	ug/L #	90
21] 1,1,2,2-Tetrachloroethane	14.839	83	876	53.90	ug/L #	99
22] 1,3,5-Trimethylbenzene	15.304	105	2894	66.07	ug/L #	99
23] 1,2,4-Trimethylbenzene	15.870	105	3345	73.32	ug/L #	98
24] Naphthalene	17.884	128	2112	24.78	ug/L #	95
25) 2-Fluorotoluene SCAN	10.926	109	94103	5001.43	ug/L	96
26) 1,1-Dichloroethene SCAN	3.059	61	101	25.41	ug/L #	52
29) cis-1,2-Dichloroethene...	5.971	61	238	40.94	ug/L #	7
30) Chloroform SCAN	6.587	83	219	35.62	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.806	97	497	86.53	ug/L #	28
33) Benzene SCAN	7.402	78	3608	250.18	ug/L #	90
36) Toluene-d8 SCAN	10.432	98	80898	4957.29	ug/L	98
37) Toluene SCAN	10.537	91	931	44.08	ug/L #	55
38) 1,1,2-Trichloroethane ...	11.167	97	285	56.64	ug/L #	2
39) Tetrachloroethene SCAN	11.387	166	441	86.71	ug/L #	62
40) Chlorobenzene SCAN	12.715	112	940	59.70	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.866	131	115	24.60	ug/L #	28
42) Ethylbenzene SCAN	12.938	91	1799	63.90	ug/L	83
43) m&p-Xylene SCAN	13.120	91	3081	73.35	ug/L	74
44) o-Xylene SCAN	13.748	91	1616	69.94	ug/L #	58
46) 1,3,5-Trimethylbenzene...	15.303	105	1947	76.76	ug/L #	77
47) 1,2,4-Trimethylbenzene...	15.864	105	1602	60.98	ug/L #	36
48) Naphthalene SCAN	17.879	128	1291	26.95	ug/L #	82

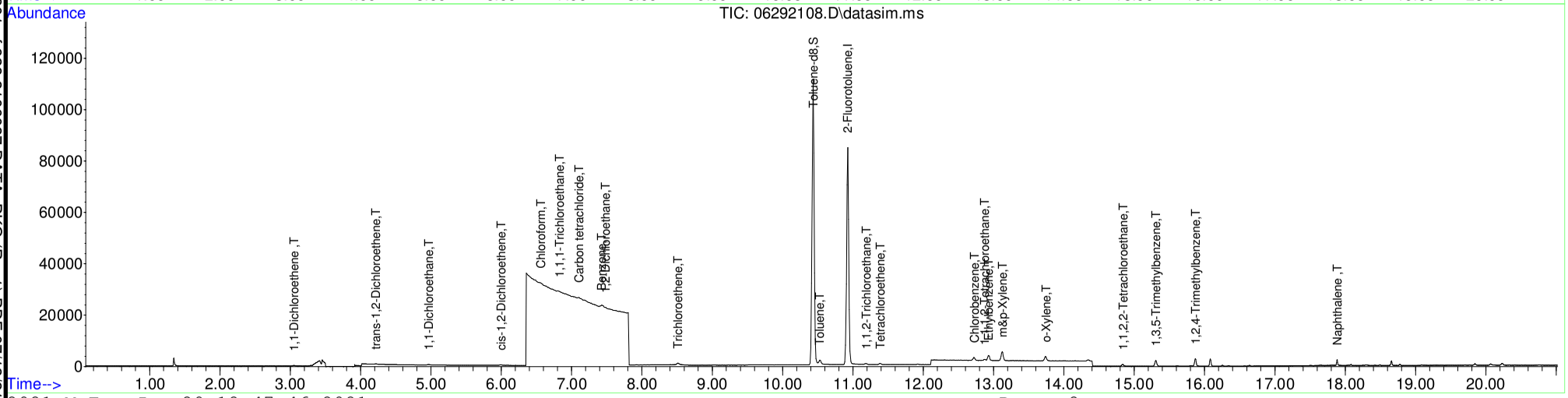
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292108.D
Acq On : 29 Jun 2021 11:31
InstName : AG5975C
Operator : TD
Sample : B21F080-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 29 11:53:07 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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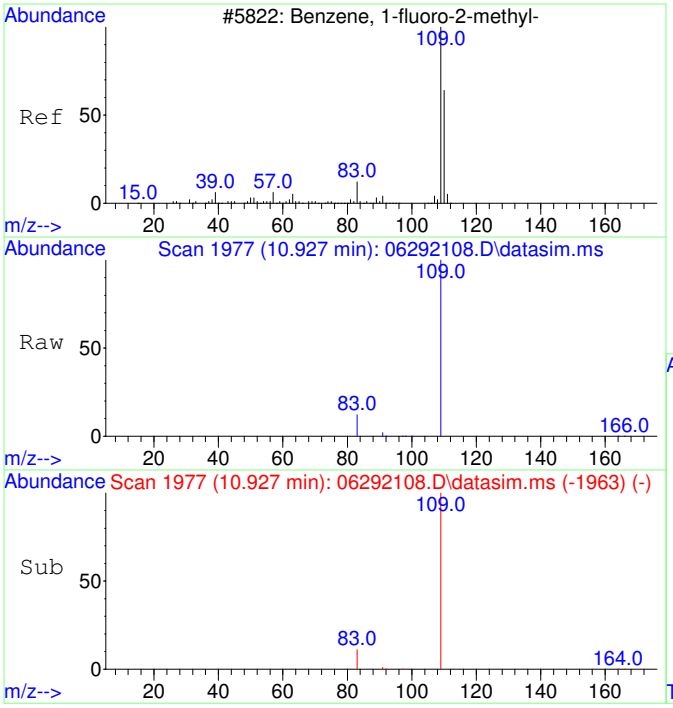
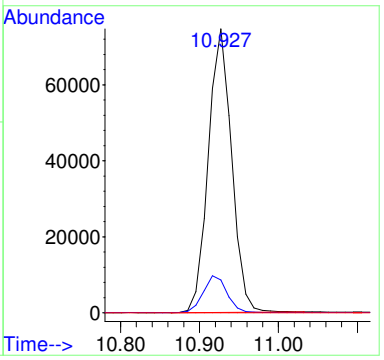
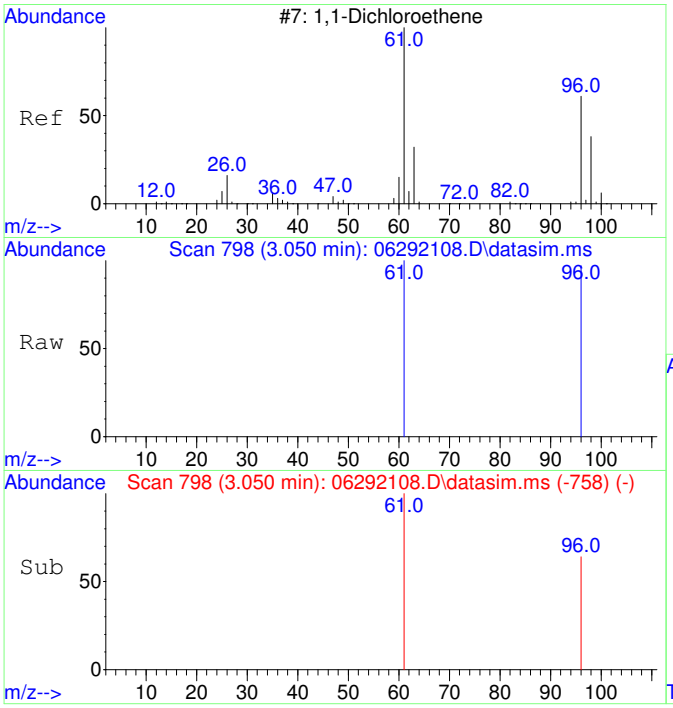


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:109 Resp: 152864

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.7
110	0.0	0.0	20.0

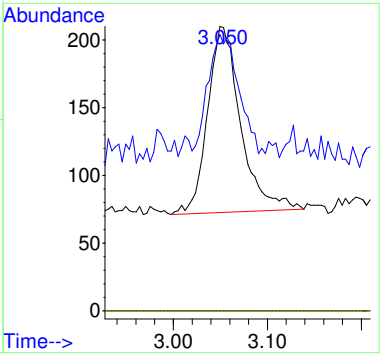


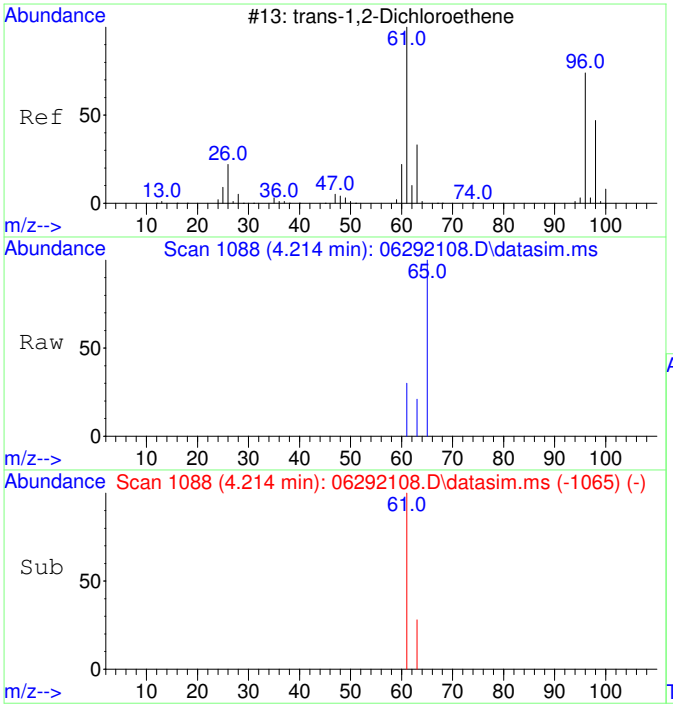


#2
1,1-Dichloroethene
Concen: 50.46 ug/L
RT: 3.050 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 61 Resp: 336

Ion	Ratio	Lower	Upper
61	100		
96	57.1	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

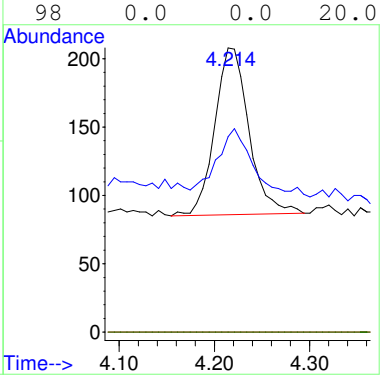


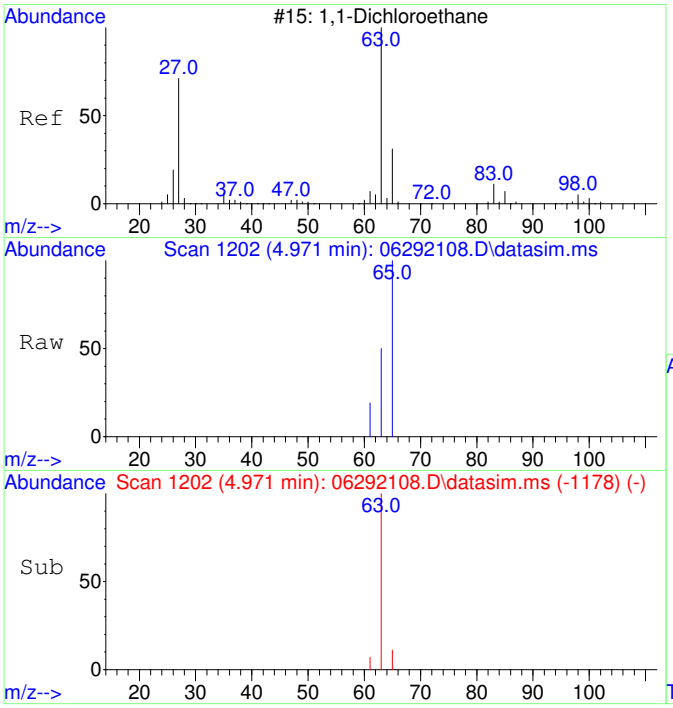


#3
trans-1,2-Dichloroethene
Concen: 53.58 ug/L
RT: 4.214 min Scan# 1088
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 61 Resp: 307

Ion	Ratio	Lower	Upper
61	100		
63	44.0	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

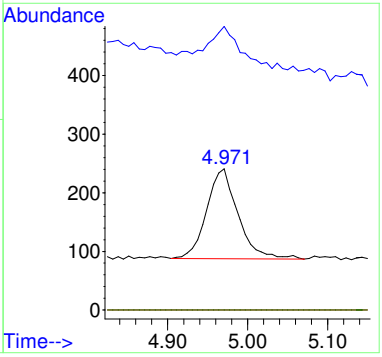


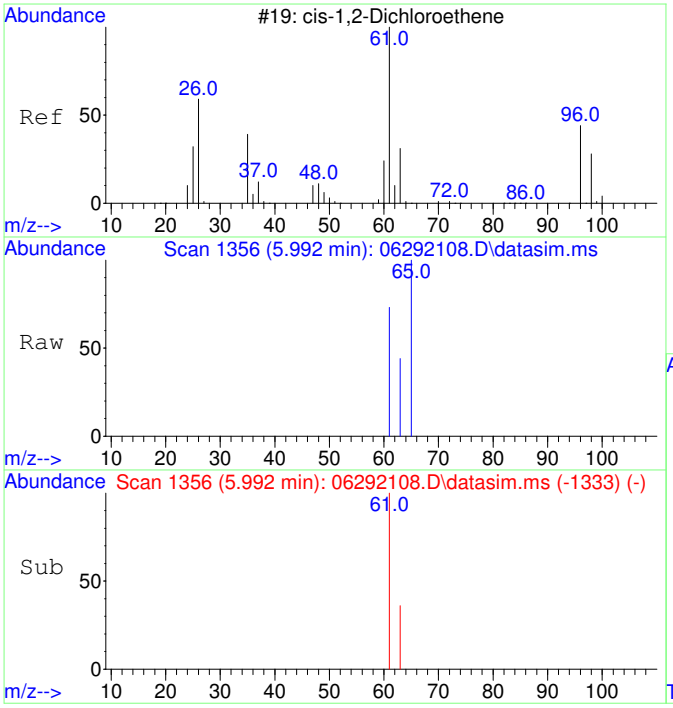


#4
1,1-Dichloroethane
Concen: 53.06 ug/L
RT: 4.971 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 63 Resp: 417

Ion	Ratio	Lower	Upper
63	100		
65	51.6	1.3	61.3
83	0.0	0.0	20.0
98	0.0	0.0	20.0

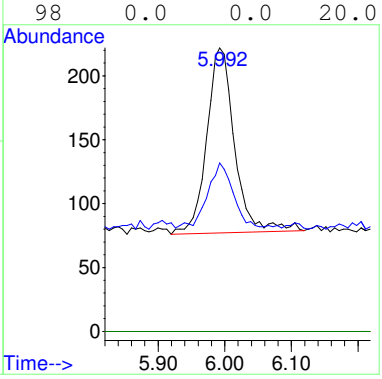


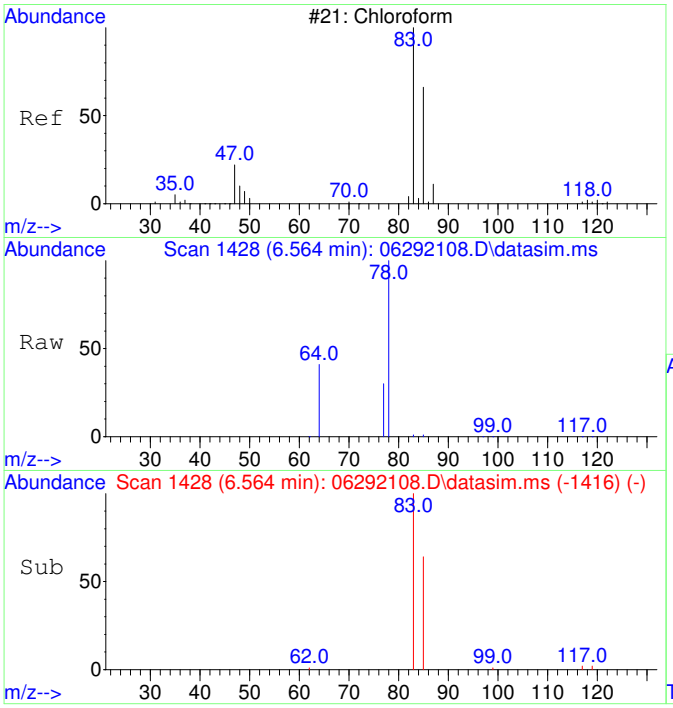


#5
cis-1,2-Dichloroethene
Concen: 55.91 ug/L
RT: 5.992 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 61 Resp: 421

Ion	Ratio	Lower	Upper
61	100		
63	34.0	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

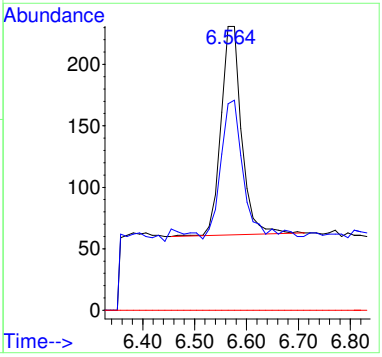


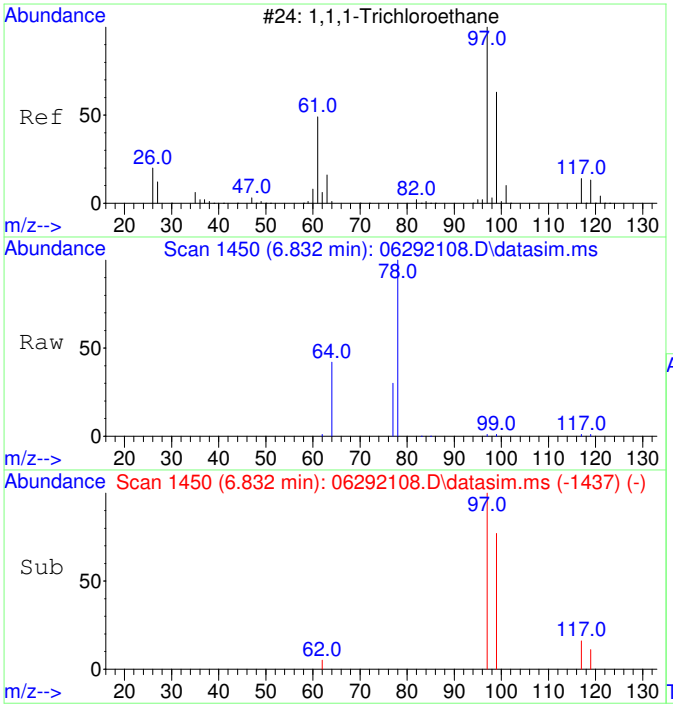


#6
Chloroform
Concen: 52.70 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 83 Resp: 467

Ion	Ratio	Lower	Upper
83	100		
85	76.0	34.5	94.5
87	0.0	0.0	20.0

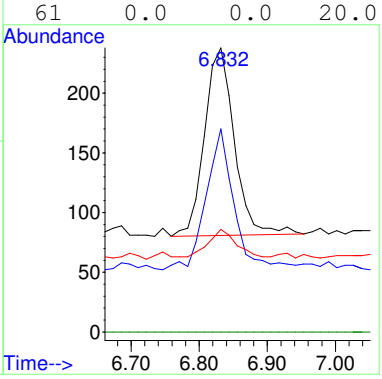


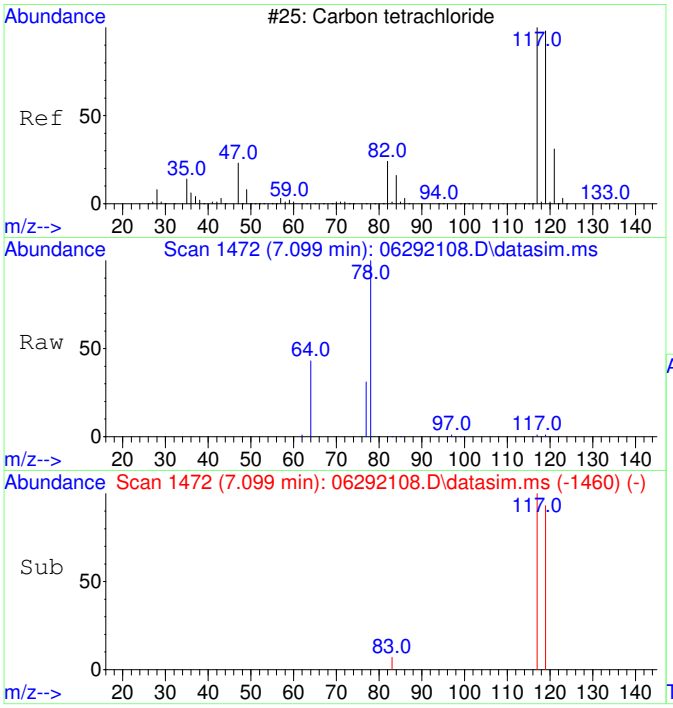


#7
1,1,1-Trichloroethane
Concen: 58.09 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.013 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 97 Resp: 479

Ion	Ratio	Lower	Upper
97	100		
99	70.8	34.4	94.4
117	12.9	0.0	42.8
61	0.0	0.0	20.0

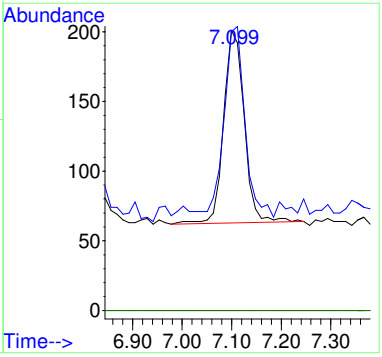


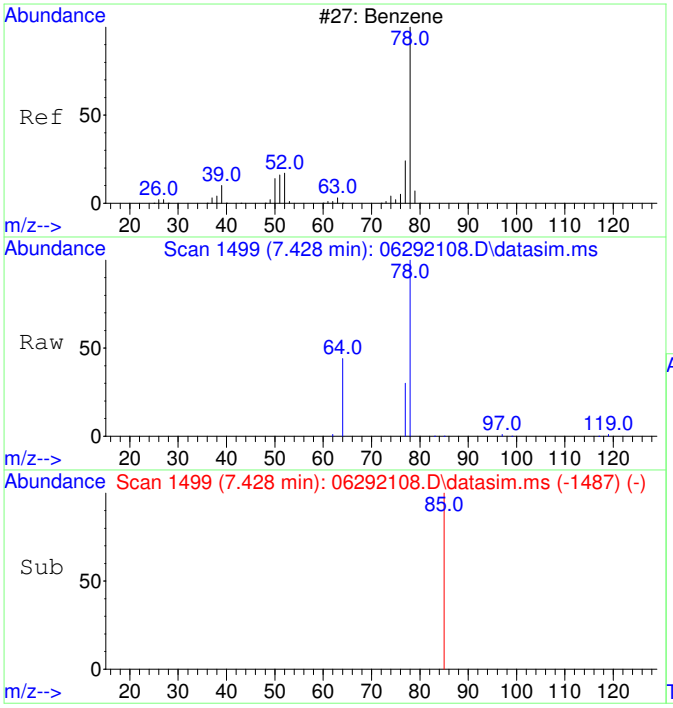


#8
Carbon tetrachloride
Concen: 55.54 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:117 Resp: 399

Ion	Ratio	Lower	Upper
117	100		
119	99.7	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

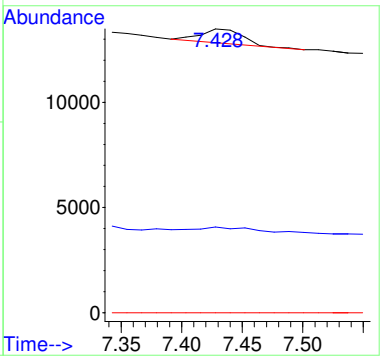


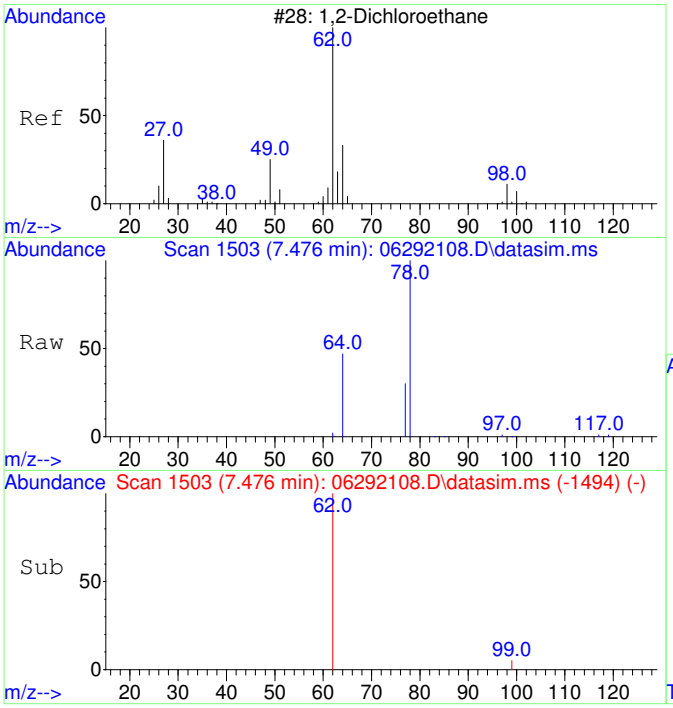


#9
Benzene
Concen: 57.03 ug/L
RT: 7.428 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 78 Resp: 1420

Ion	Ratio	Lower	Upper
78	100		
77	116.4	0.0	53.7#
52	0.0	0.0	20.0

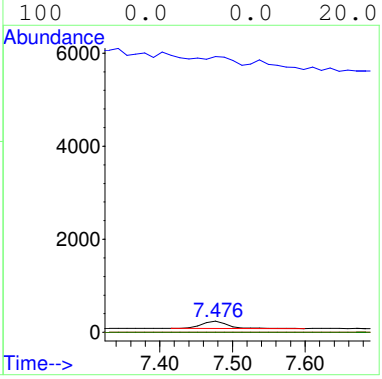


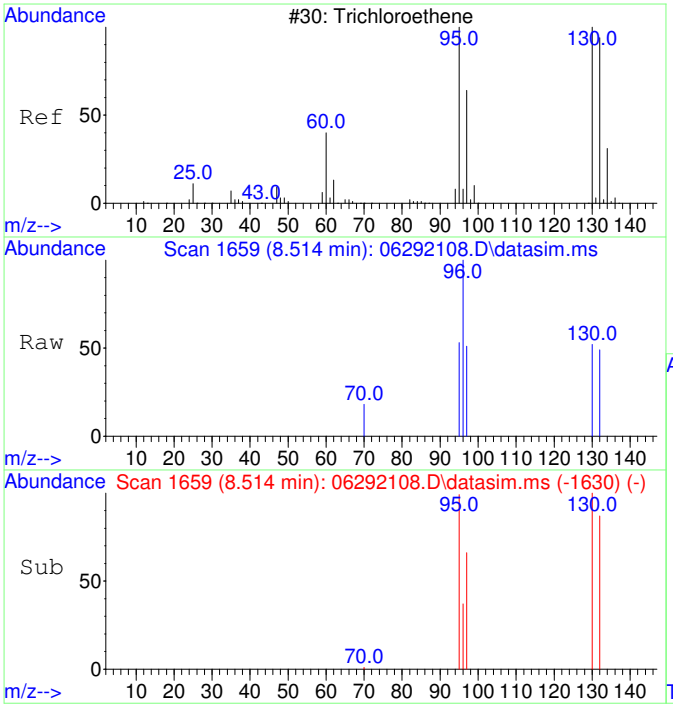


#10
1,2-Dichloroethane
Concen: 56.22 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 62 Resp: 385

Ion	Ratio	Lower	Upper
62	100		
64	0.0	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

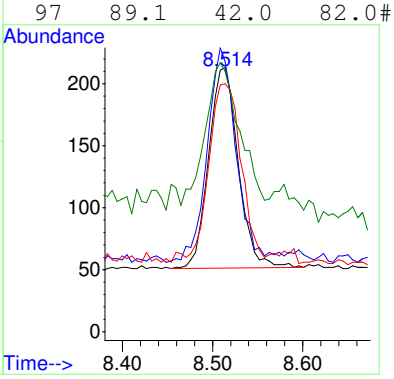


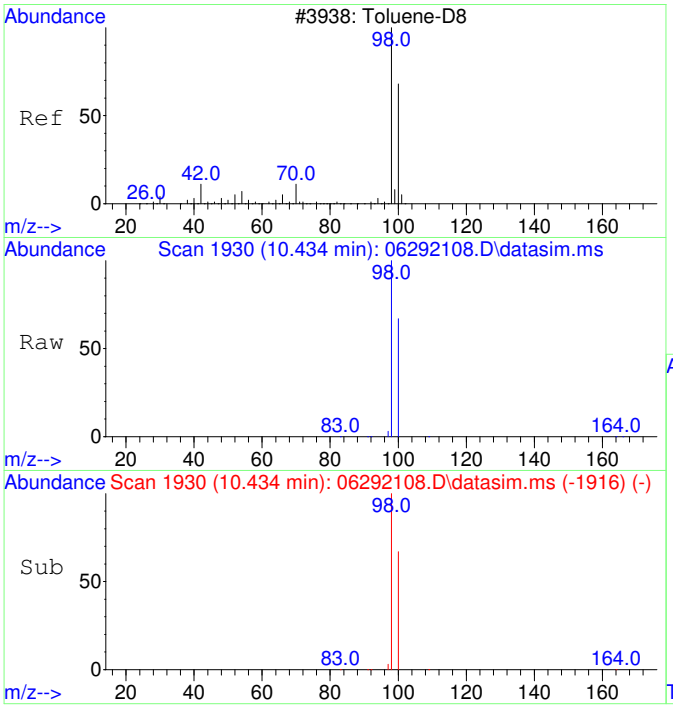


#11
Trichloroethene
Concen: 55.51 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:130 Resp: 368

Ion	Ratio	Lower	Upper
130	100		
95	104.9	65.8	125.8
132	98.9	75.8	115.8
97	89.1	42.0	82.0#

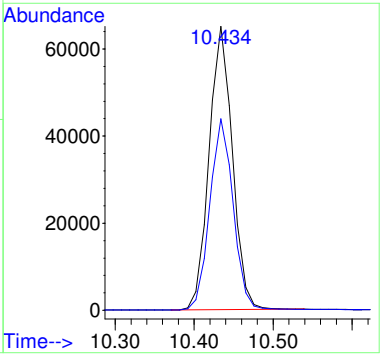


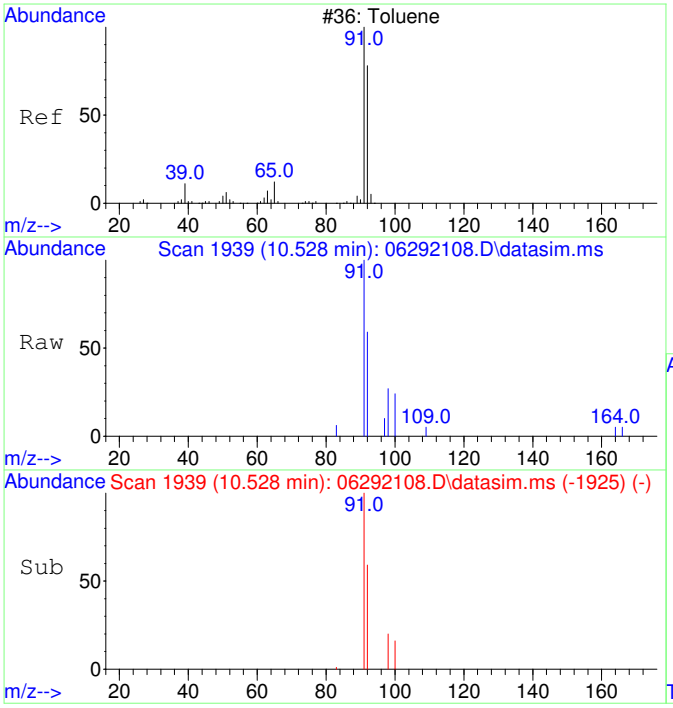


#12
Toluene-d8
Concen: 5075.06 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 98 Resp: 132887

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.3	97.3

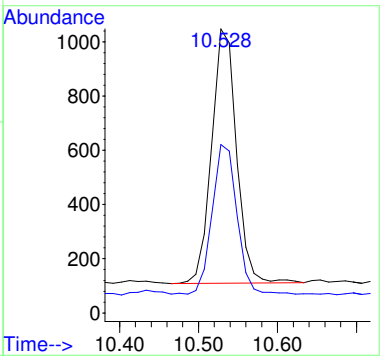


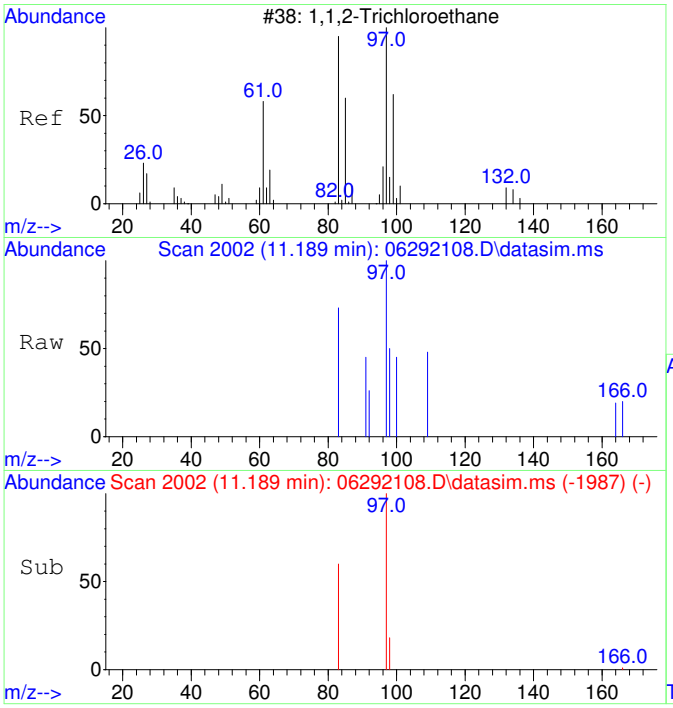


#13
Toluene
Concen: 60.03 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 2046

Ion	Ratio	Lower	Upper
91	100		
92	58.5	30.2	90.2

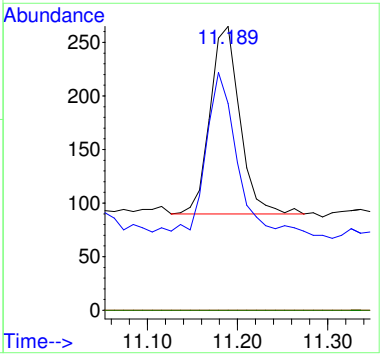


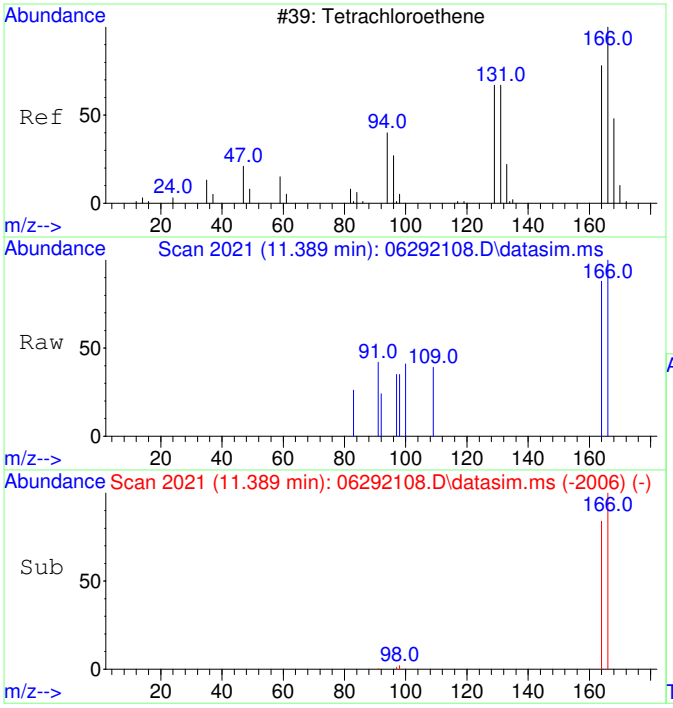


#14
1,1,2-Trichloroethane
Concen: 56.70 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 97 Resp: 402

Ion	Ratio	Lower	Upper
97	100		
83	92.3	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

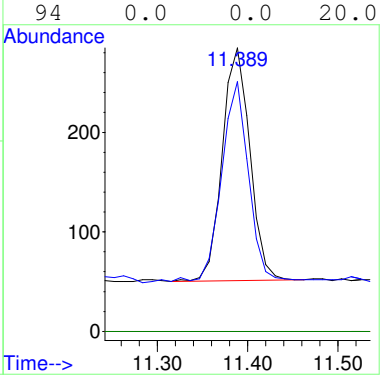


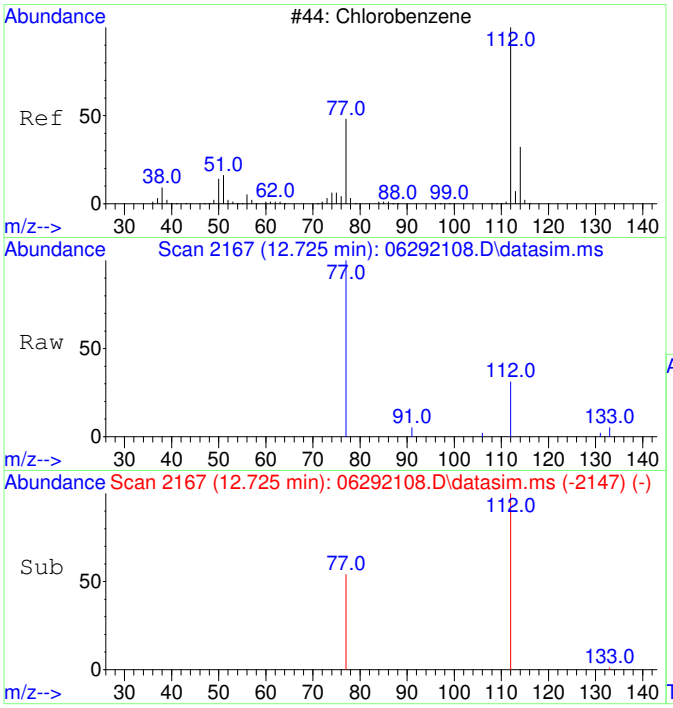


#15
Tetrachloroethene
Concen: 57.23 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:166 Resp: 499

Ion	Ratio	Lower	Upper
166	100		
164	86.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

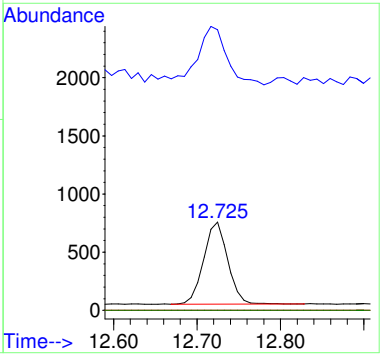


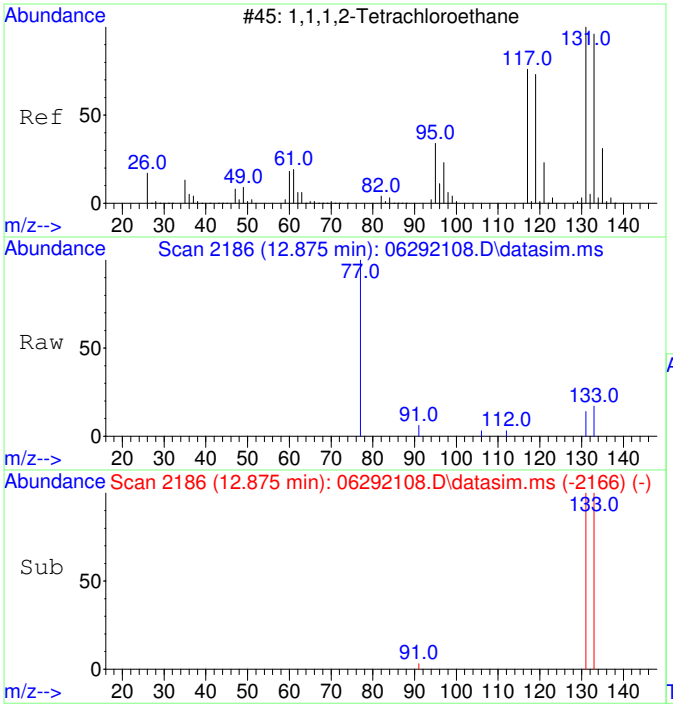


#16
Chlorobenzene
Concen: 47.57 ug/L
RT: 12.725 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:112 Resp: 1404

Ion	Ratio	Lower	Upper
112	100		
77	94.9	27.0	87.0#
114	0.0	0.0	20.0
51	0.0	0.0	20.0

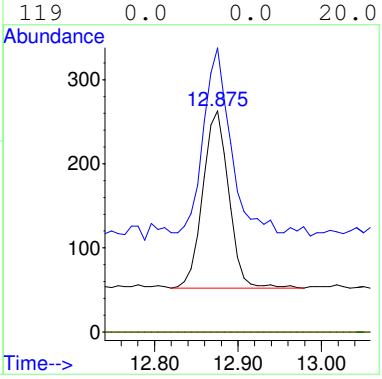


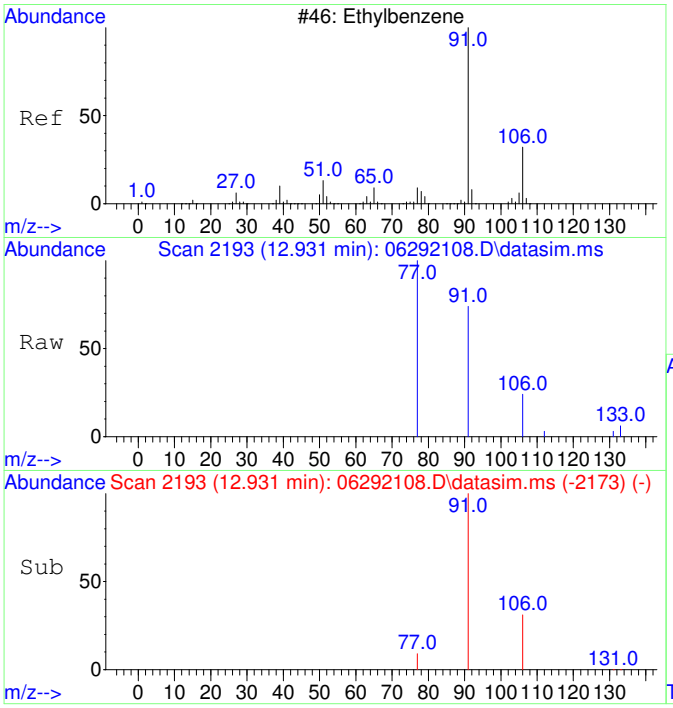


#17
1,1,1,2-Tetrachloroethane
Concen: 58.44 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:131 Resp: 459

Ion	Ratio	Lower	Upper
131	100		
133	106.5	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

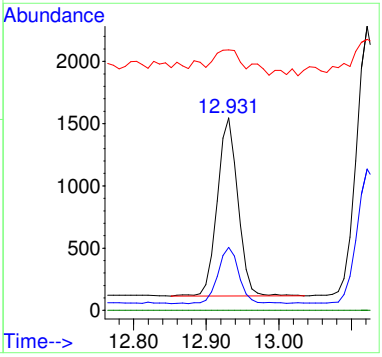


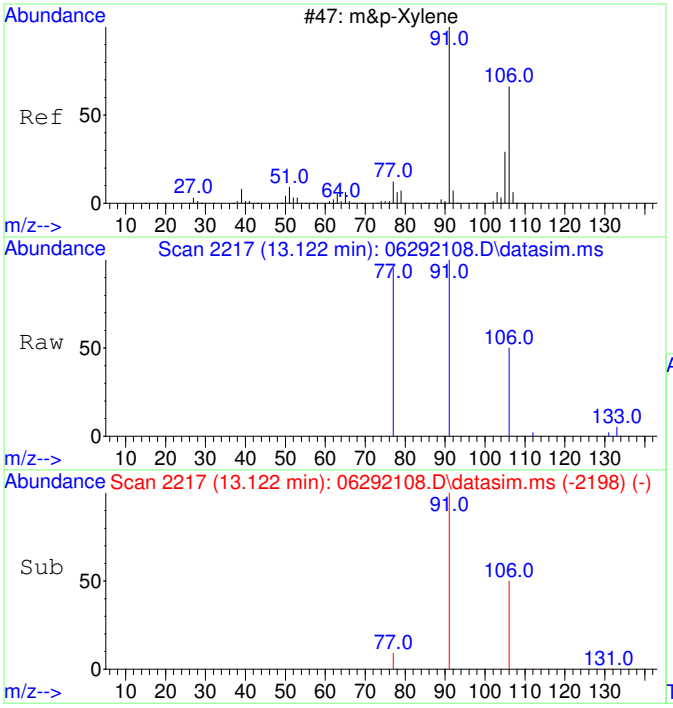


#18
Ethylbenzene
Concen: 64.52 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 2824

Ion	Ratio	Lower	Upper
91	100		
106	32.1	2.8	62.8
77	15.2	0.0	38.2
105	0.0	0.0	20.0

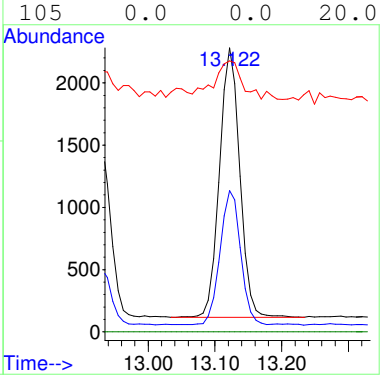


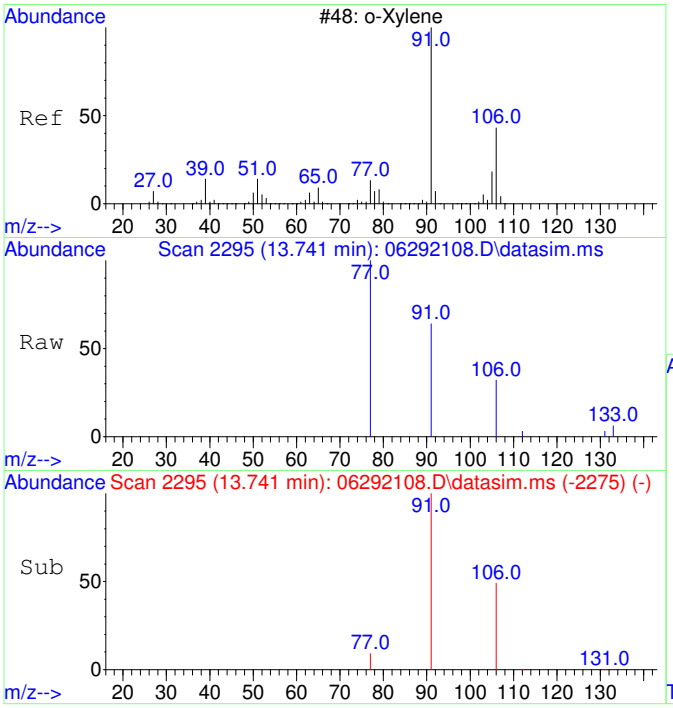


#19
m&p-Xylene
Concen: 132.53 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 4570

Ion	Ratio	Lower	Upper
91	100		
106	50.0	21.4	81.4
77	18.9	0.0	42.7
105	0.0	0.0	20.0

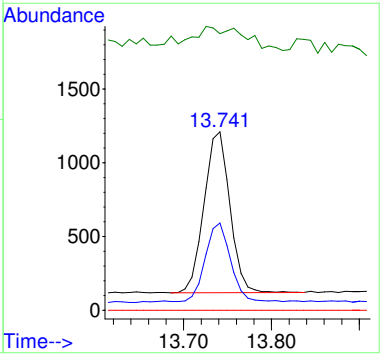


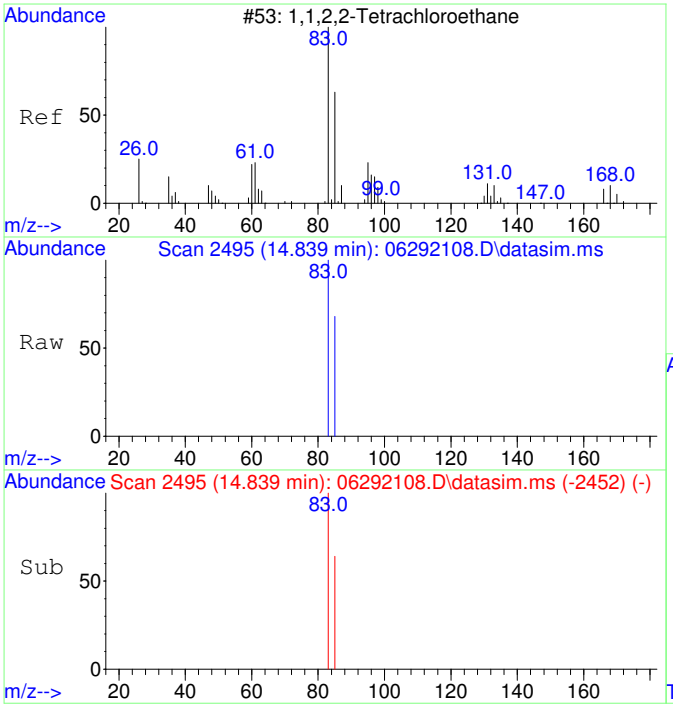


#20
o-Xylene
Concen: 59.82 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 2231

Ion	Ratio	Lower	Upper
91	100		
106	47.2	18.7	78.7
105	0.0	0.0	30.0
77	15.4	7.3	47.3

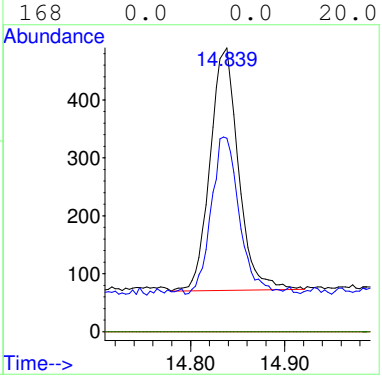


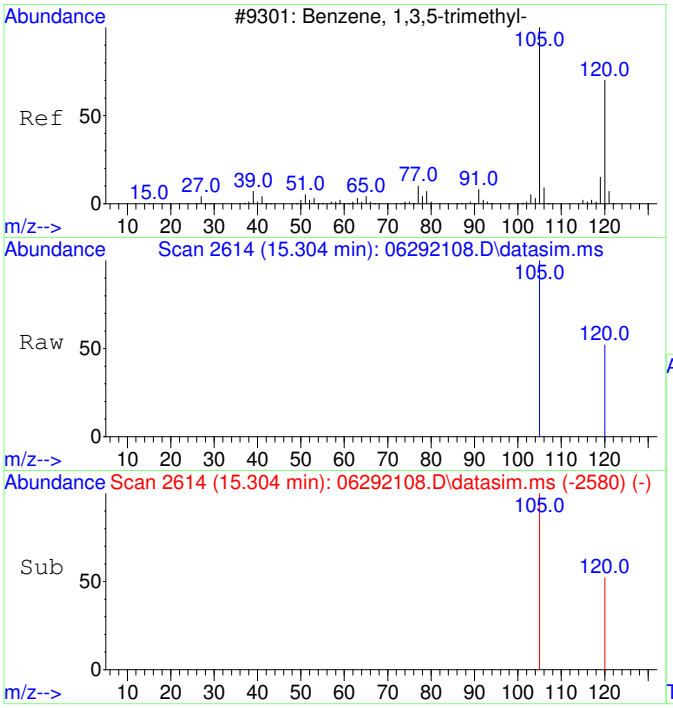


#21
1,1,2,2-Tetrachloroethane
Concen: 53.90 ug/L
RT: 14.839 min Scan# 2495
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 83 Resp: 876

Ion	Ratio	Lower	Upper
83	100		
85	64.0	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

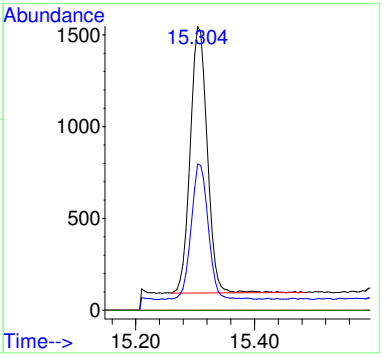


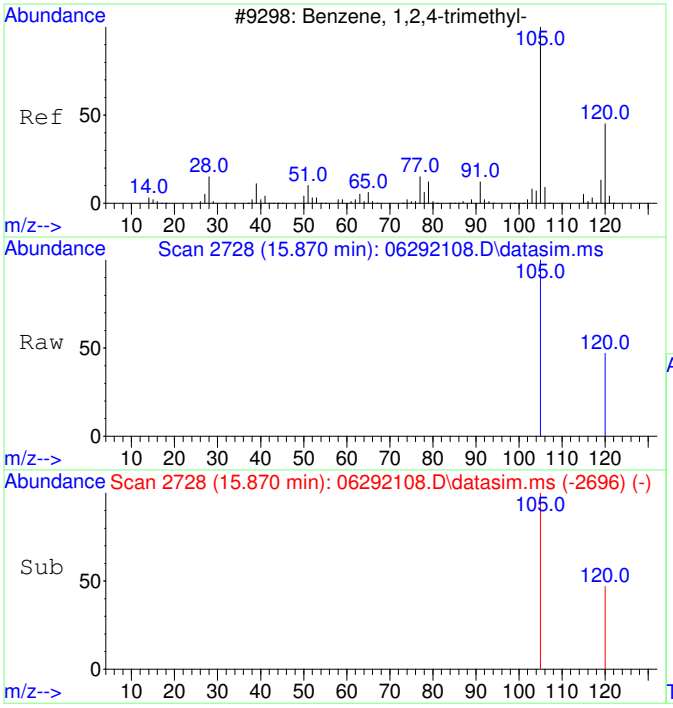


#22
1,3,5-Trimethylbenzene
Concen: 66.07 ug/L
RT: 15.304 min Scan# 2614
Delta R.T. 0.002 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:105 Resp: 2894

Ion	Ratio	Lower	Upper
105	100		
120	50.1	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

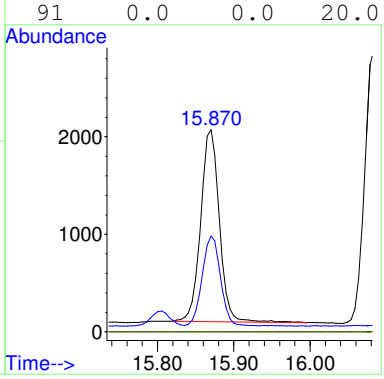


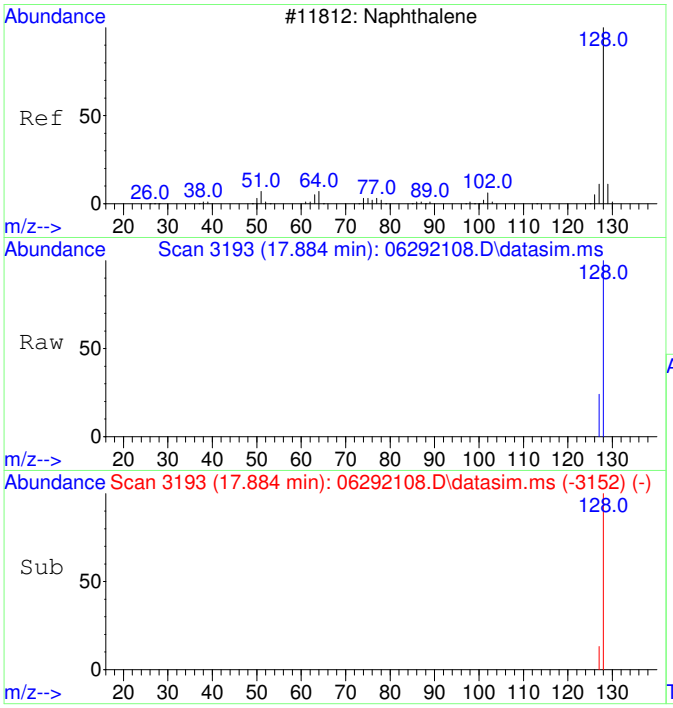


#23
1,2,4-Trimethylbenzene
Concen: 73.32 ug/L
RT: 15.870 min Scan# 2728
Delta R.T. 0.007 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:105 Resp: 3345

Ion	Ratio	Lower	Upper
105	100		
120	44.9	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

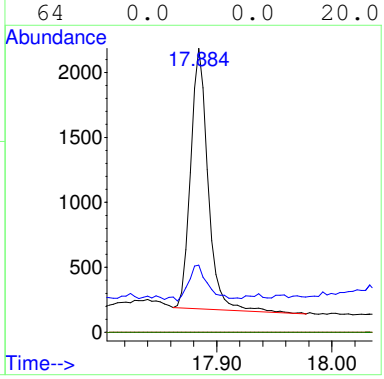


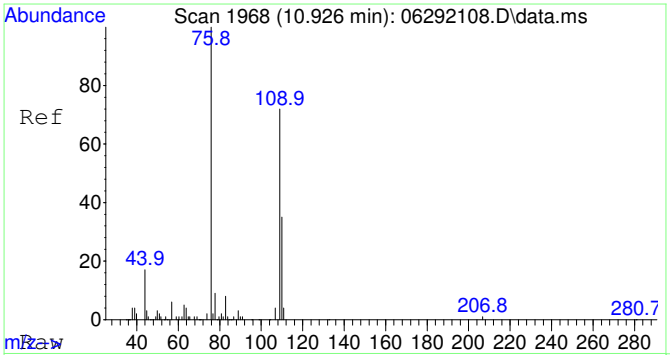


#24
Naphthalene
Concen: 24.78 ug/L
RT: 17.884 min Scan# 3193
Delta R.T. 0.002 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:128 Resp: 2112

Ion	Ratio	Lower	Upper
128	100		
127	14.4	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

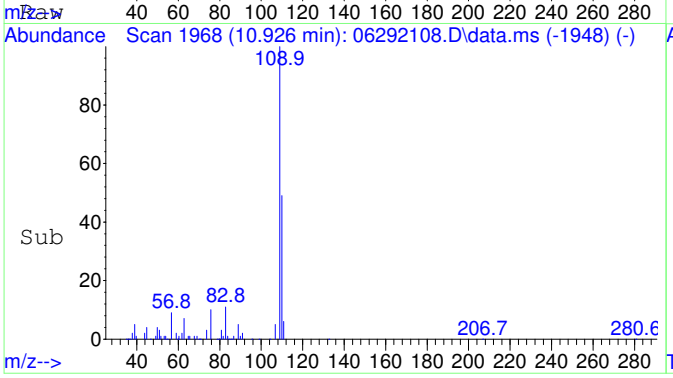


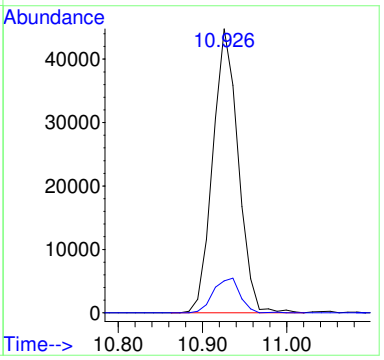


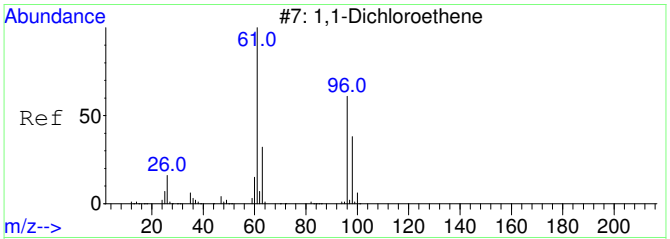
#25
2-Fluorotoluene SCAN
Concen: 5001.43 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:109 Resp: 94103

Ion	Ratio	Lower	Upper
109	100		
83	12.7	0.0	44.5



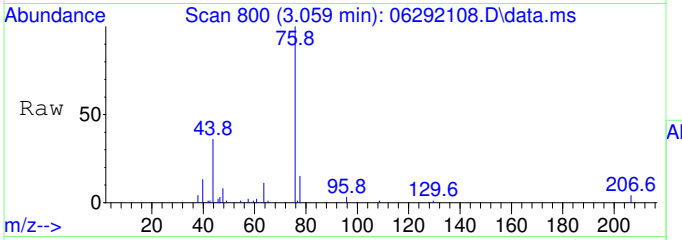


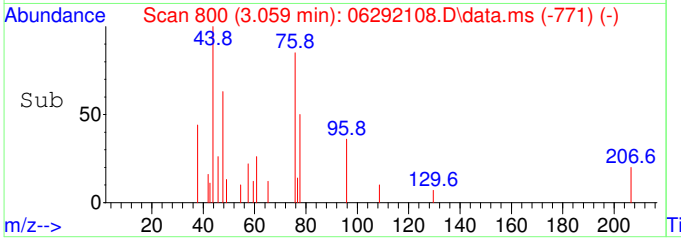


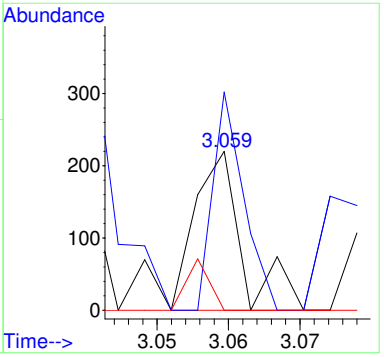
#26
1,1-Dichloroethene SCAN
Concen: 25.41 ug/L
RT: 3.059 min Scan# 800
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

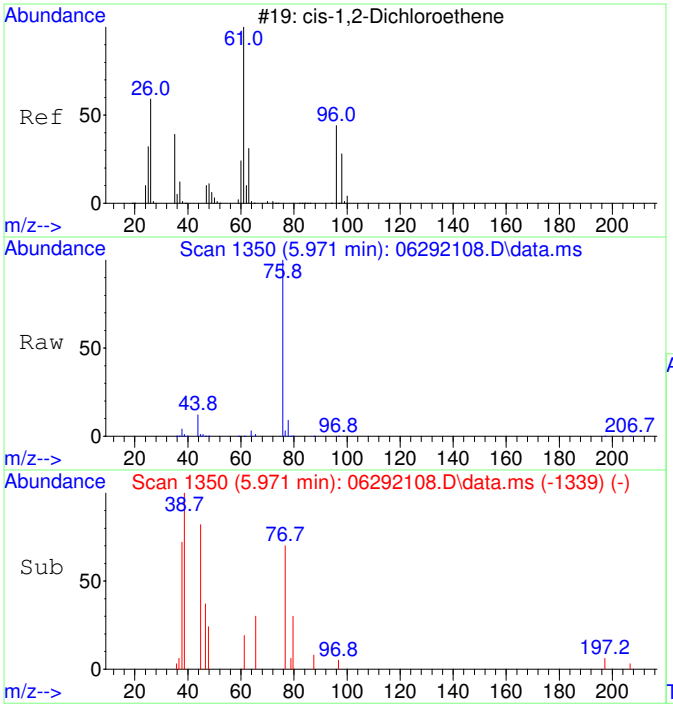
Tgt Ion: 61 Resp: 101

Ion	Ratio	Lower	Upper
61	100		
96	90.1	33.0	93.0
98	0.0	12.5	72.5#





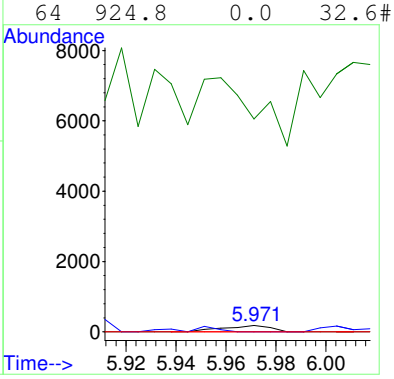


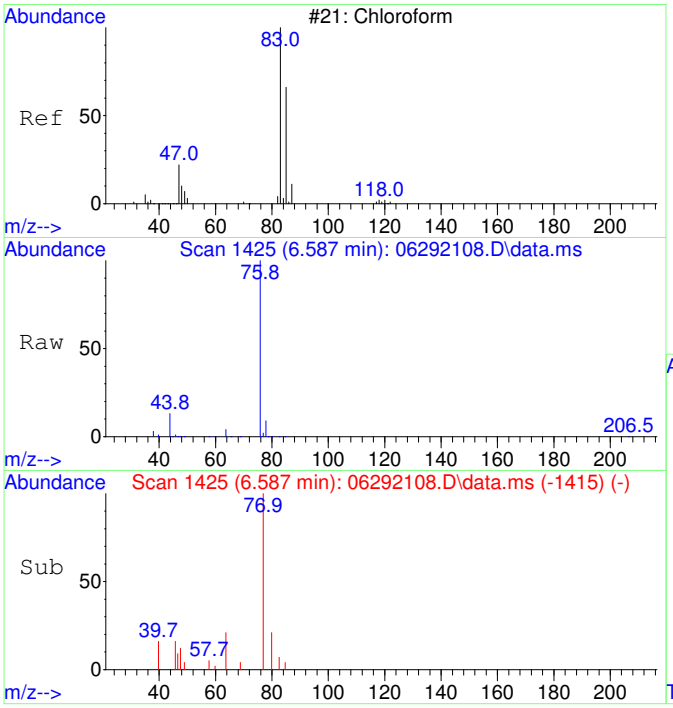


#29
cis-1,2-Dichloroethene SCAN
Concen: 40.94 ug/L
RT: 5.971 min Scan# 1350
Delta R.T. -0.026 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 61 Resp: 238

Ion	Ratio	Lower	Upper
61	100		
96	61.3	36.9	96.9
98	0.0	12.1	72.1#
64	924.8	0.0	32.6#

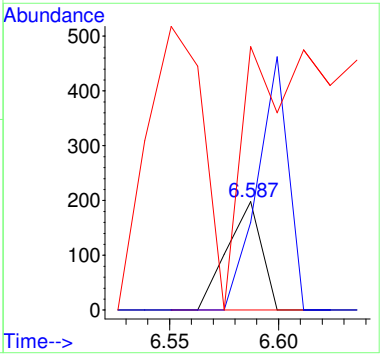


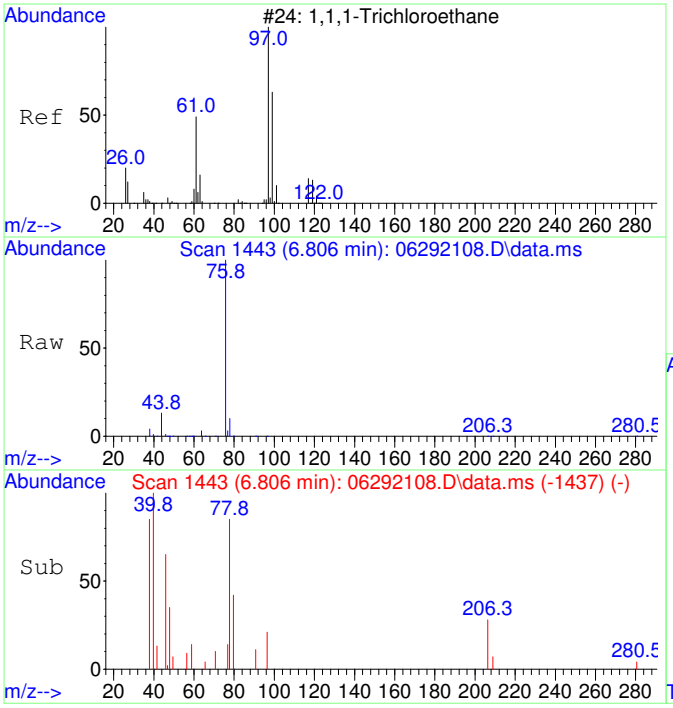


#30
Chloroform SCAN
Concen: 35.62 ug/L
RT: 6.587 min Scan# 1425
Delta R.T. 0.025 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 83 Resp: 219

Ion	Ratio	Lower	Upper
83	100		
85	207.3	27.1	87.1#
47	0.0	7.5	67.5#

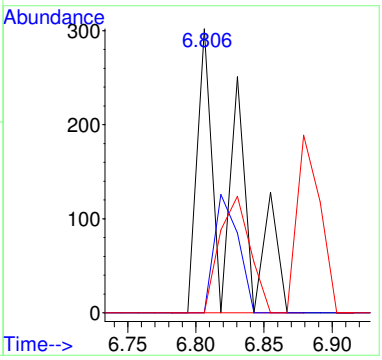


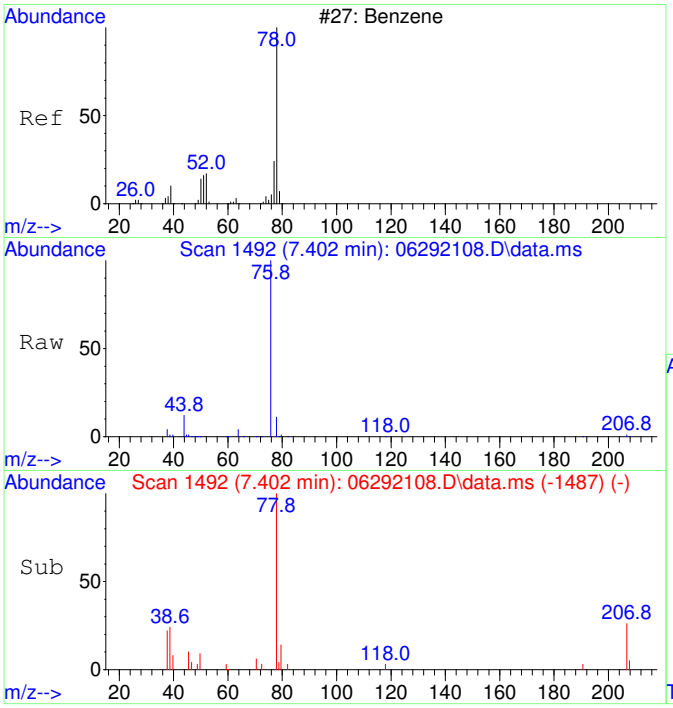


#31
1,1,1-Trichloroethane SCAN
Concen: 86.53 ug/L
RT: 6.806 min Scan# 1443
Delta R.T. -0.024 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 97 Resp: 497

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	0.0	11.4	71.4#

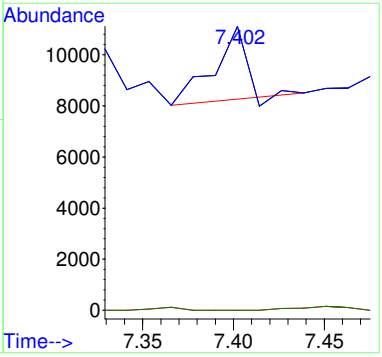


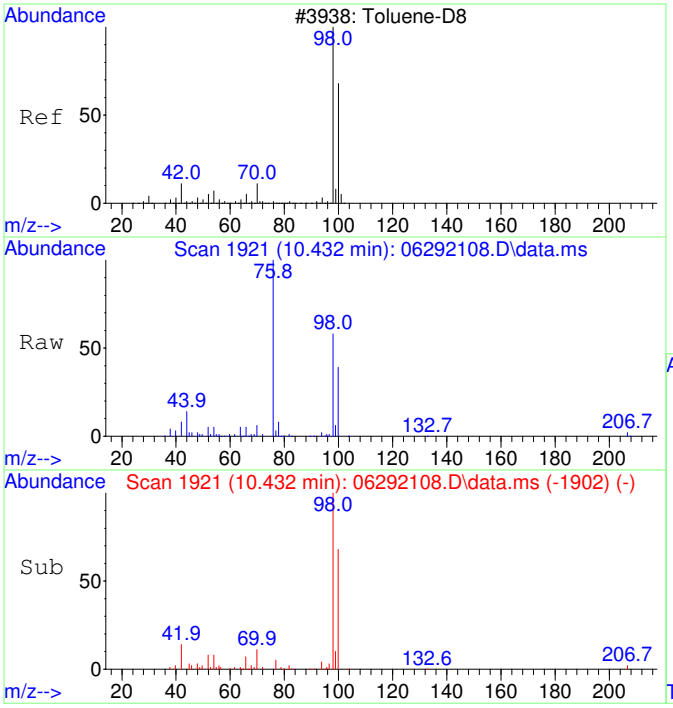


#33
Benzene SCAN
Concen: 250.18 ug/L
RT: 7.402 min Scan# 1492
Delta R.T. -0.036 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 78 Resp: 3608

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	46.7
51	0.0	0.0	46.7

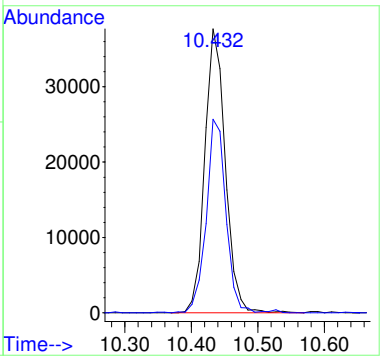


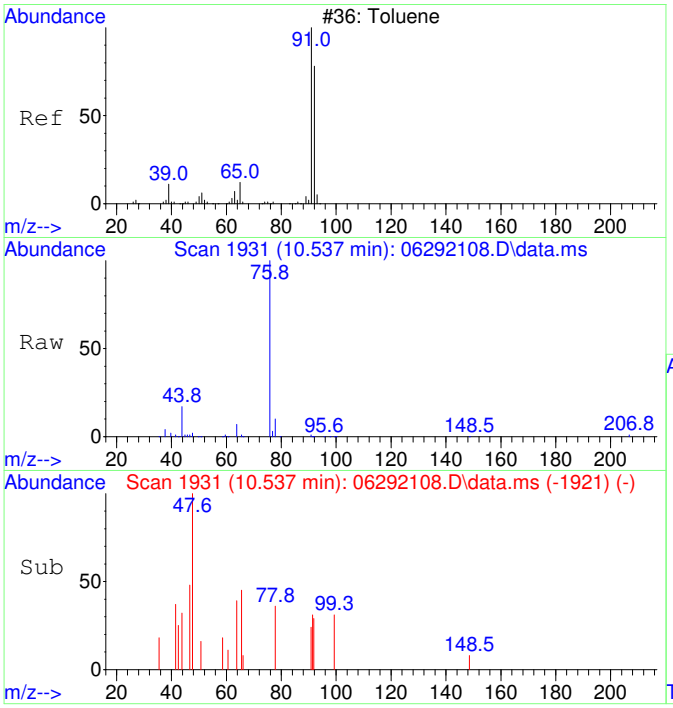


#36
Toluene-d8 SCAN
Concen: 4957.29 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 98 Resp: 80898

Ion	Ratio	Lower	Upper
98	100		
100	64.6	36.1	96.1

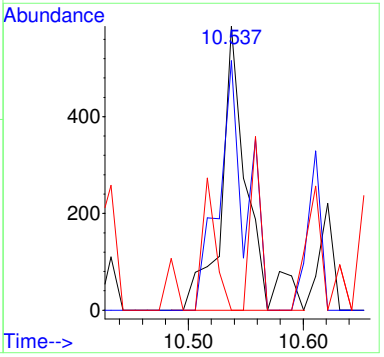


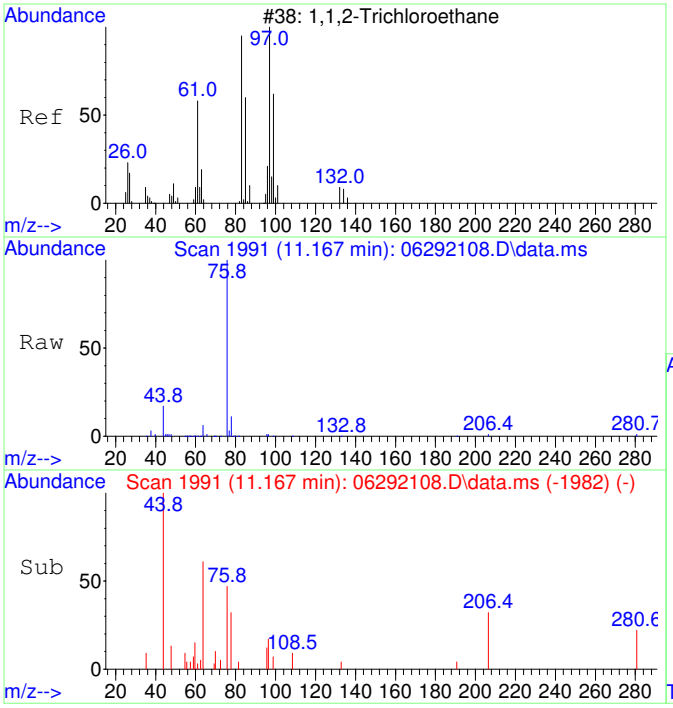


#37
Toluene SCAN
Concen: 44.08 ug/L
RT: 10.537 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 931

Ion	Ratio	Lower	Upper
91	100		
92	91.8	26.5	86.5#
65	0.0	0.0	40.6

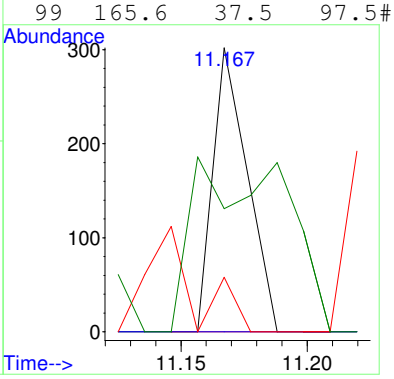


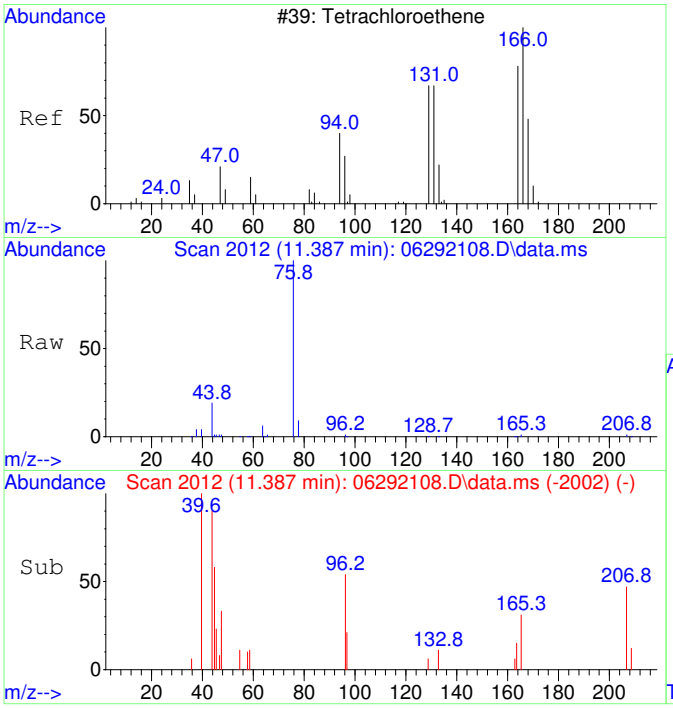


#38
1,1,2-Trichloroethane SCAN
Concen: 56.64 ug/L
RT: 11.167 min Scan# 1991
Delta R.T. -0.010 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 97 Resp: 285

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	165.6	37.5	97.5#

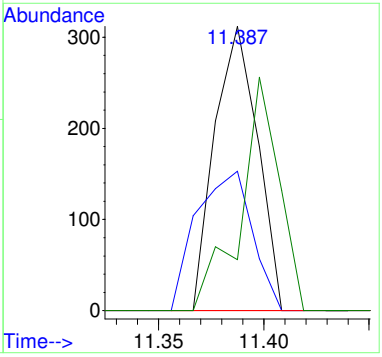


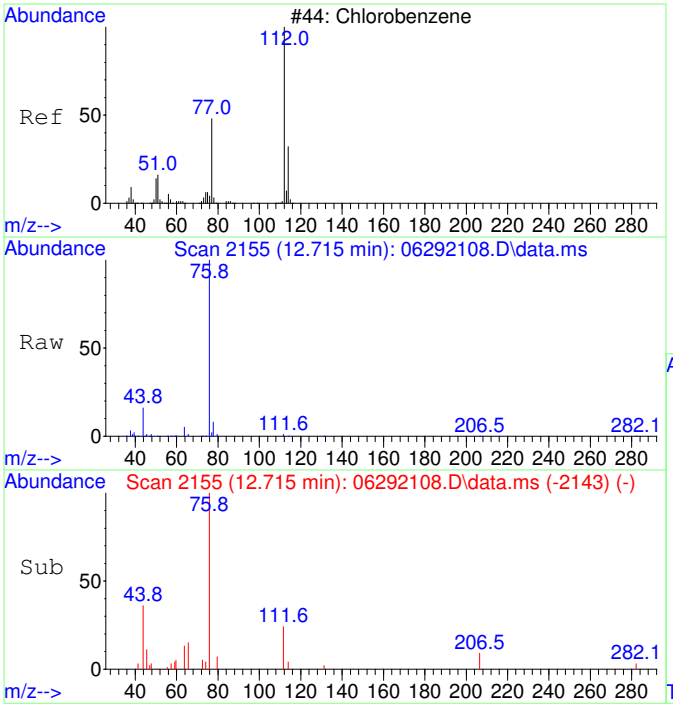


#39
Tetrachloroethene SCAN
Concen: 86.71 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:166 Resp: 441

Ion	Ratio	Lower	Upper
166	100		
164	63.9	53.9	113.9
131	0.0	45.6	105.6#
129	73.5	51.3	111.3

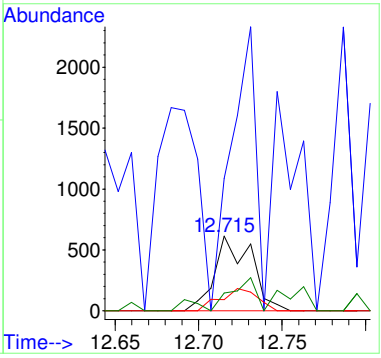


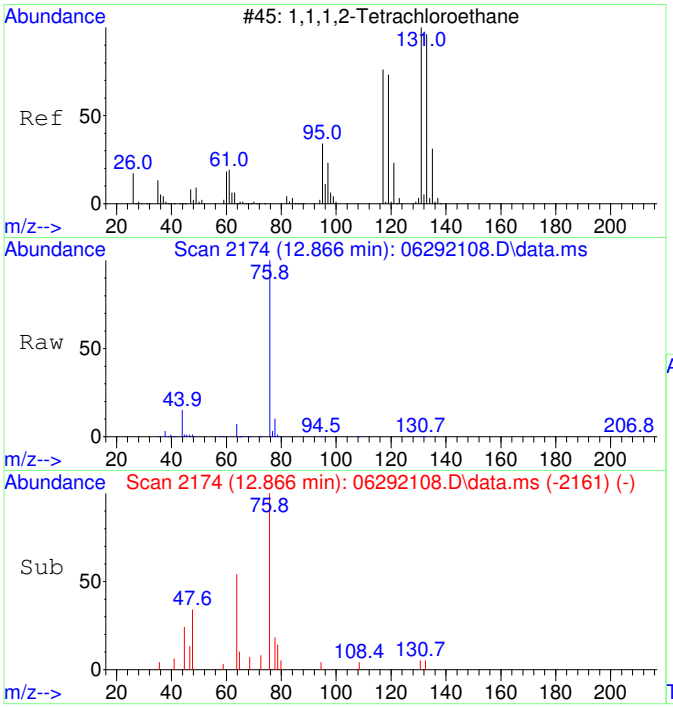


#40
Chlorobenzene SCAN
Concen: 59.70 ug/L
RT: 12.715 min Scan# 2155
Delta R.T. -0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:112 Resp: 940

Ion	Ratio	Lower	Upper
112	100		
77	254.8	48.5	108.5#
114	30.2	4.9	64.9
51	37.1	0.0	53.6

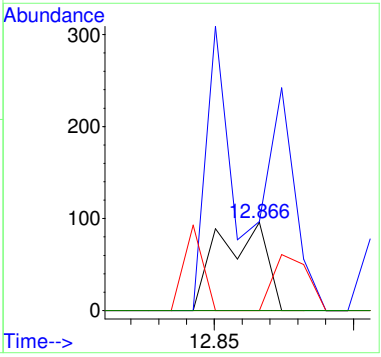


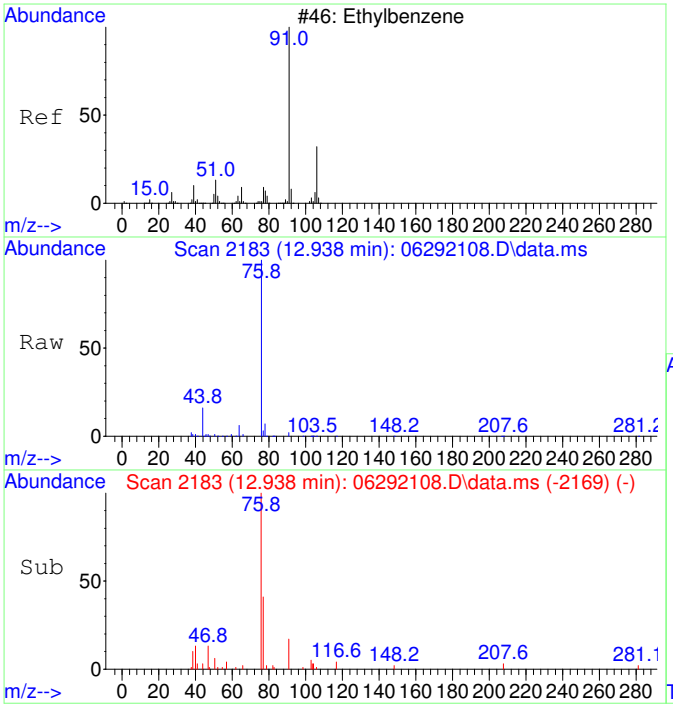


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 24.60 ug/L
RT: 12.866 min Scan# 2174
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:131 Resp: 115

Ion	Ratio	Lower	Upper
131	100		
133	0.0	61.4	121.4#
119	46.1	33.6	93.6
117	0.0	39.6	99.6#

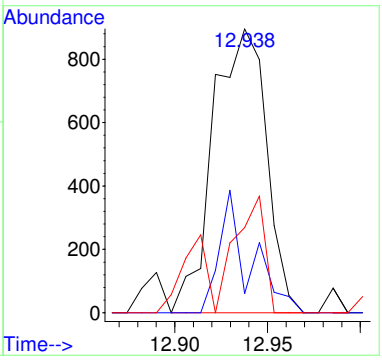


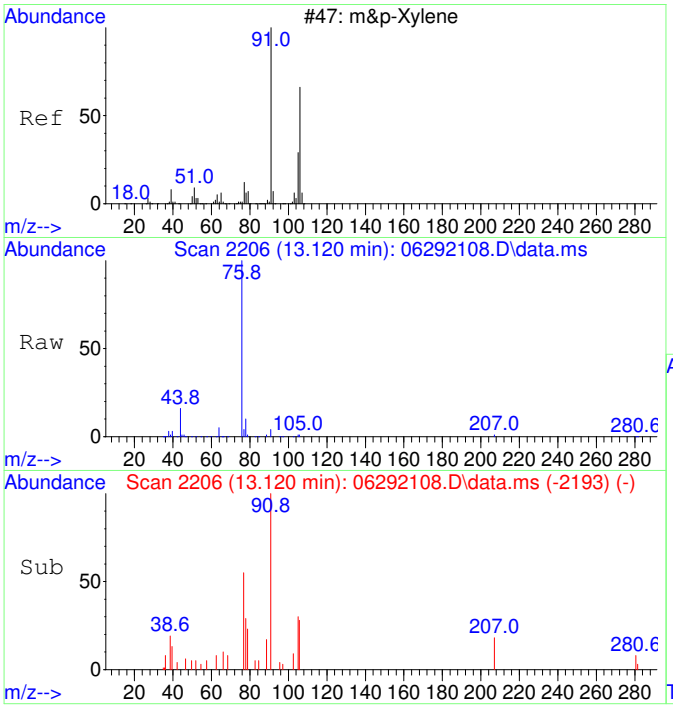


#42
Ethylbenzene SCAN
Concen: 63.90 ug/L
RT: 12.938 min Scan# 2183
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 1799

Ion	Ratio	Lower	Upper
91	100		
106	24.3	0.5	60.5
51	22.7	0.0	39.6

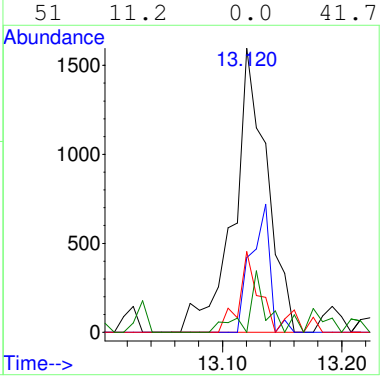


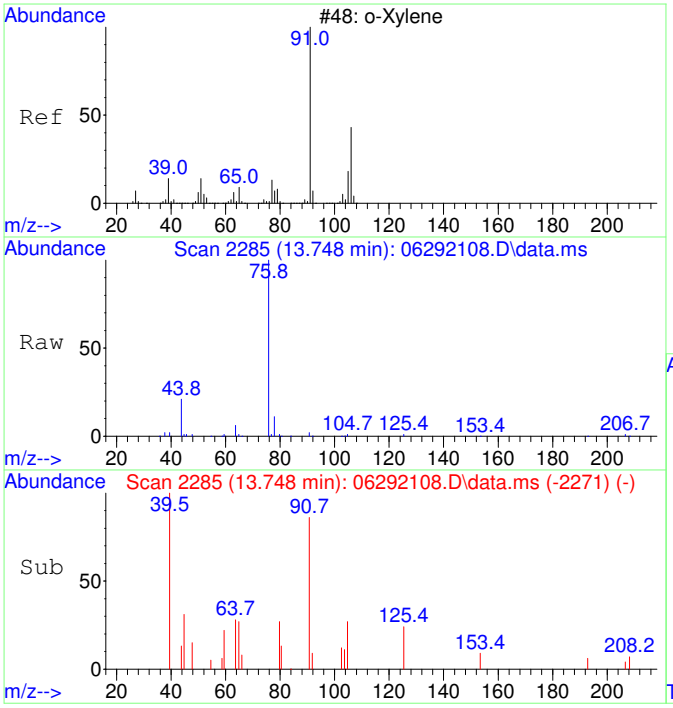


#43
m&p-Xylene SCAN
Concen: 73.35 ug/L
RT: 13.120 min Scan# 2206
Delta R.T. 0.000 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 3081

Ion	Ratio	Lower	Upper
91	100		
106	26.0	21.2	81.2
105	13.7	0.0	51.6
51	11.2	0.0	41.7

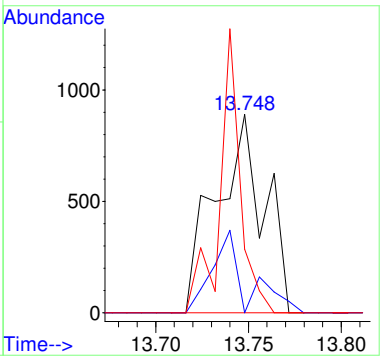


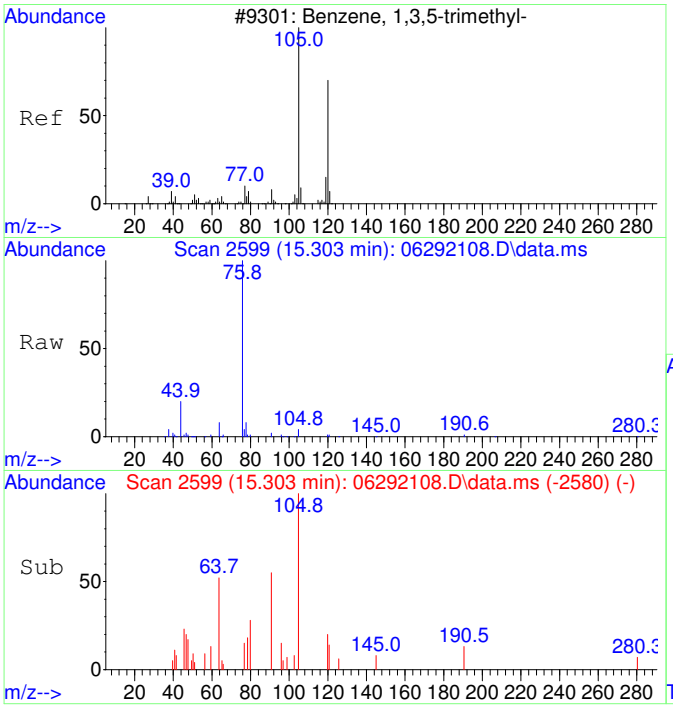


#44
o-Xylene SCAN
Concen: 69.94 ug/L
RT: 13.748 min Scan# 2285
Delta R.T. 0.008 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion: 91 Resp: 1616

Ion	Ratio	Lower	Upper
91	100		
106	29.5	19.1	79.1
105	60.3	0.0	55.6#

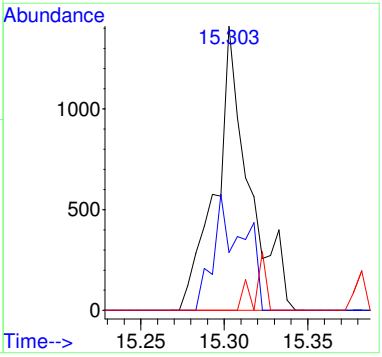


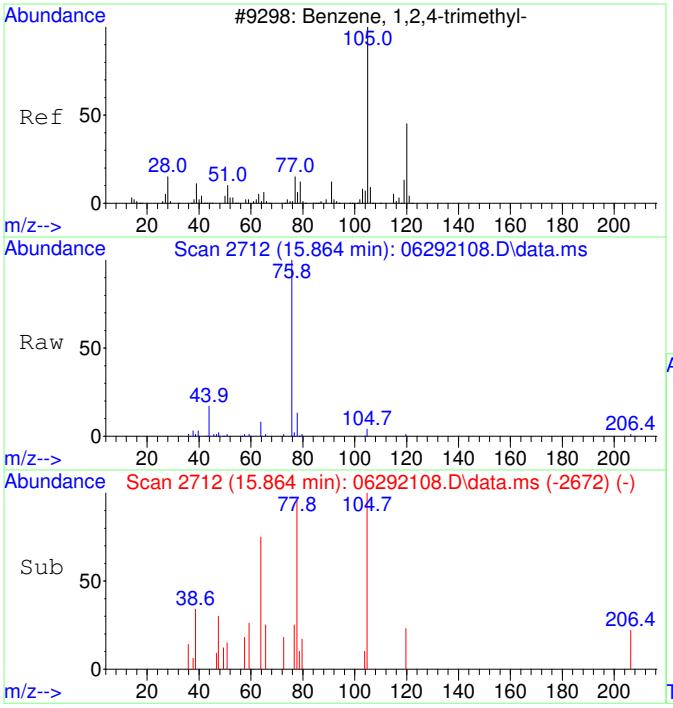


#46
1,3,5-Trimethylbenzene SCAN
Concen: 76.76 ug/L
RT: 15.303 min Scan# 2599
Delta R.T. 0.002 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:105 Resp: 1947

Ion	Ratio	Lower	Upper
105	100		
120	36.8	20.2	80.2
119	0.0	0.0	43.8

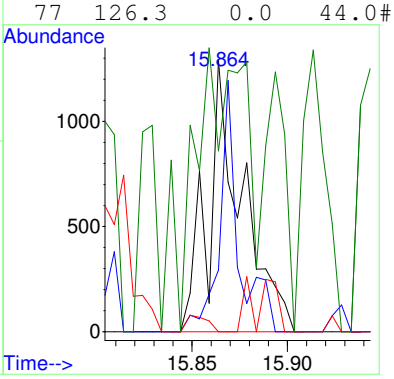


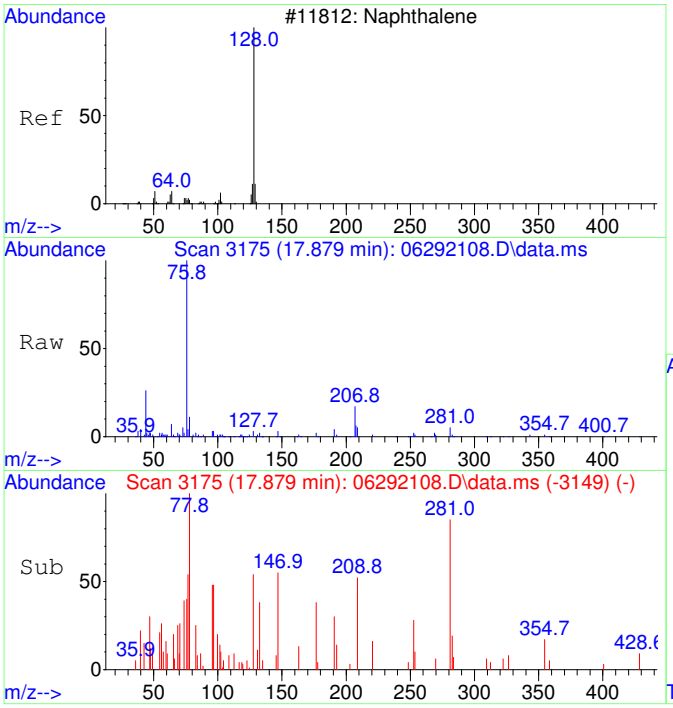


#47
1,2,4-Trimethylbenzene SCAN
Concen: 60.98 ug/L
RT: 15.864 min Scan# 2712
Delta R.T. -0.003 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:105 Resp: 1602

Ion	Ratio	Lower	Upper
105	100		
120	51.2	15.6	75.6
119	3.7	0.0	38.2
77	126.3	0.0	44.0#

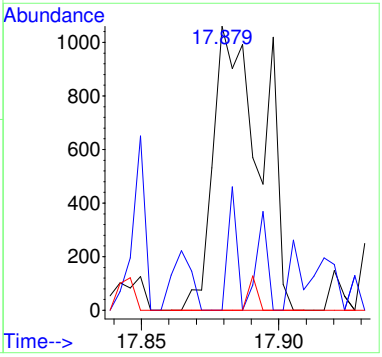




#48
Naphthalene SCAN
Concen: 26.95 ug/L
RT: 17.879 min Scan# 3175
Delta R.T. -0.002 min
Lab File: 06292108.D
Acq: 29 Jun 2021 11:31

Tgt Ion:128 Resp: 1291

Ion	Ratio	Lower	Upper
128	100		
127	7.1	0.0	41.1
129	0.0	0.0	39.5



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 21176E
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2104012
Sequence: S21F073

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S21F073-CRL1	1,1-Dichloroethene	50.0	46.6	93	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	47.4	95	ug/L	60 - 140
	1,1-Dichloroethane	50.0	47.2	94	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	48.7	97	ug/L	60 - 140
	Chloroform	50.0	54.6	109	ug/L	60 - 140
	Trichloroethene	50.0	49.2	98	ug/L	60 - 140
	Tetrachloroethene	50.0	51.2	102	ug/L	60 - 140
	Toluene-d8	50.0	51.4	103	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S21F073-CRL1
Misc Info: 2106042 0.05 mg/L
Date Acquired: 6/29/21 9:46
QLast Update: Thu Apr 29 06:45:57 2021
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.927	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.049	50.0	46.58	93%	60	140	pass
3)	trans-1,2-Dichloroethene	4.214	50.0	47.43	95%	60	140	pass
4)	1,1-Dichloroethane	4.964	50.0	47.20	94%	60	140	pass
5)	cis-1,2-Dichloroethene	5.992	50.0	48.73	97%	60	140	pass
6)	Chloroform	6.564	50.0	54.57	109%	60	140	pass
11)	Trichloroethene	8.508	50.0	49.19	98%	60	140	pass
12)	Toluene-d8	10.433	50.0	51.35	103%	60	140	pass
13)	Toluene	10.528	50.0	56.83	114%	60	140	pass
14)	1,1,2-Trichloroethane	11.179	50.0	52.09	104%	60	140	pass
15)	Tetrachloroethene	11.378	50.0	51.25	103%	60	140	pass
16)	Chlorobenzene	12.716	50.0	76.62	153%	60	140	FAIL
17)	1,1,1,2-Tetrachloroethane	12.867	50.0	50.89	102%	60	140	pass
18)	Ethylbenzene	12.923	50.0	50.15	100%	60	140	pass
19)	m&p-Xylene	13.121	100.0	103.37	103%	60	140	pass
20)	o-Xylene	13.733	50.0	50.65	101%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.831	50.0	48.50	97%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.302	50.0	52.47	105%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.863	50.0	56.26	113%	60	140	pass
24)	Naphthalene	17.882	50.0	82.39	165%	60	140	FAIL

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292104.D
Acq On : 29 Jun 2021 9:46
InstName : AG5975C
Operator : TD
Sample : S21F073-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:07:25 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

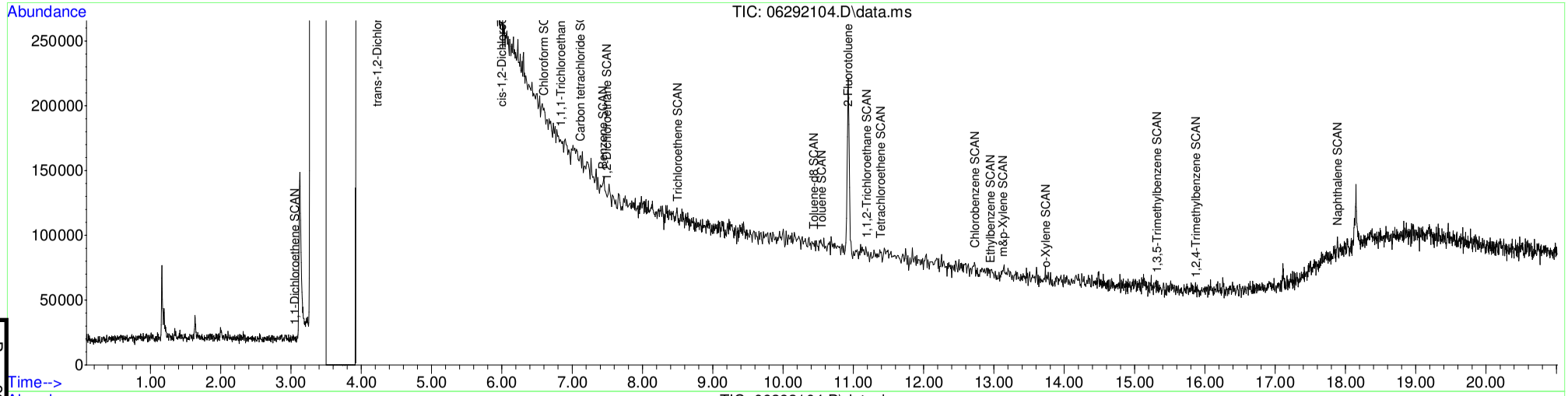
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	191233	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	1682	51.35 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.03%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	388	46.58 ug/L #	98
3] trans-1,2-Dichloroethene	4.221	61	340	47.43 ug/L #	90
4] 1,1-Dichloroethane	4.970	63	464	47.20 ug/L #	12
5] cis-1,2-Dichloroethene	5.999	61	459	48.73 ug/L #	95
6] Chloroform	6.564	83	605	54.57 ug/L #	94
7] 1,1,1-Trichloroethane	6.832	97	526	50.99 ug/L #	95
8] Carbon tetrachloride	7.099	117	454	50.52 ug/L #	89
9] Benzene	7.428	78	3271	105.01 ug/L #	49
10] 1,2-Dichloroethane	7.476	62	460	53.69 ug/L #	1
11] Trichloroethene	8.514	130	408	49.19 ug/L	93
13] Toluene	10.528	91	2423	56.83 ug/L	98
14] 1,1,2-Trichloroethane	11.189	97	462	52.09 ug/L #	98
15] Tetrachloroethene	11.389	166	559	51.25 ug/L #	98
16] Chlorobenzene	12.724	112	2829	76.62 ug/L #	92
17] 1,1,1,2-Tetrachloroethane	12.875	131	500	50.89 ug/L #	91
18] Ethylbenzene	12.931	91	2746	50.15 ug/L #	94
19] m&p-Xylene	13.122	91	4459	103.37 ug/L #	95
20] o-Xylene	13.741	91	2363	50.65 ug/L #	94
21] 1,1,2,2-Tetrachloroethane	14.838	83	986	48.50 ug/L #	98
22] 1,3,5-Trimethylbenzene	15.307	105	2875	52.47 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	3211	56.26 ug/L #	99
24] Naphthalene	17.883	128	8783	82.39 ug/L #	99
25) 2-Fluorotoluene SCAN	10.926	109	108639	4615.50 ug/L	97
26) 1,1-Dichloroethene SCAN	3.052	61	242	48.68 ug/L #	56
27) trans-1,2-Dichloroethe...	4.226	61	198	36.81 ug/L #	16
29) cis-1,2-Dichloroethene...	5.998	61	536	73.71 ug/L #	45
30) Chloroform SCAN	6.587	83	549	71.39 ug/L #	1
31) 1,1,1-Trichloroethane ...	6.842	97	397	55.25 ug/L #	51
32) Carbon tetrachloride SCAN	7.110	117	337	56.84 ug/L #	17
33) Benzene SCAN	7.438	78	6456	357.85 ug/L	95
34) 1,2-Dichloroethane SCAN	7.487	62	393	69.10 ug/L #	36
35) Trichloroethene SCAN	8.502	130	159	34.58 ug/L #	30
36) Toluene-d8 SCAN	10.432	98	2058	100.81 ug/L	81
37) Toluene SCAN	10.548	91	2323	87.92 ug/L #	33
38) 1,1,2-Trichloroethane ...	11.188	97	676	107.40 ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	217	34.10 ug/L #	45
40) Chlorobenzene SCAN	12.723	112	2173	110.32 ug/L #	1
42) Ethylbenzene SCAN	12.945	91	2101	59.65 ug/L	81
43) m&p-Xylene SCAN	13.128	91	2761	52.54 ug/L #	64
44) o-Xylene SCAN	13.740	91	1562	54.04 ug/L #	66
46) 1,3,5-Trimethylbenzene...	15.316	105	2027	63.88 ug/L #	42
47) 1,2,4-Trimethylbenzene...	15.872	105	2227	67.77 ug/L #	78
48) Naphthalene SCAN	17.881	128	4775	79.69 ug/L #	80

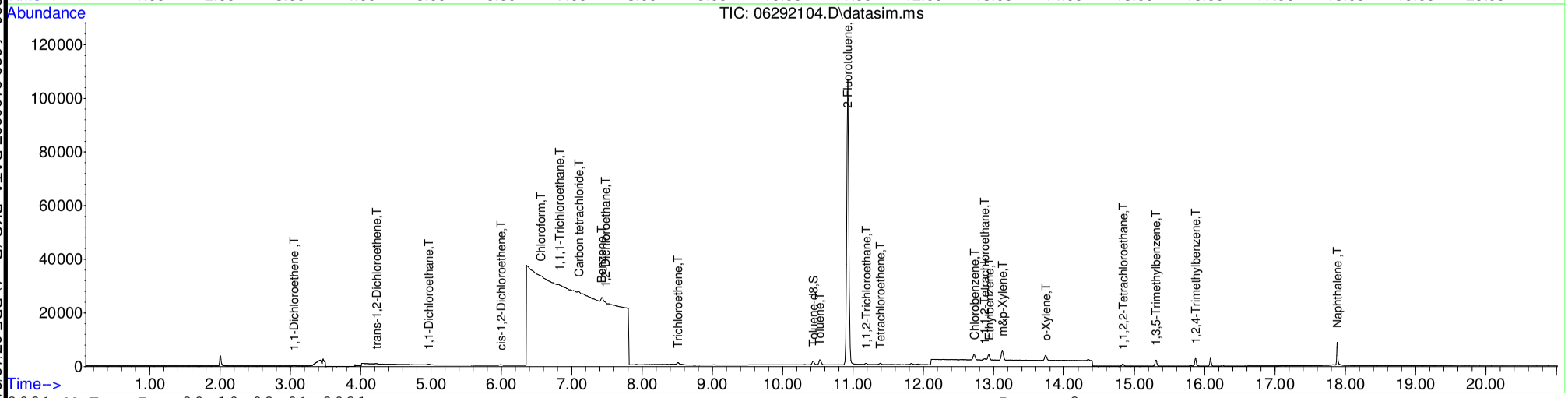
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292104.D
Acq On : 29 Jun 2021 9:46
InstName : AG5975C
Operator : TD
Sample : S21F073-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:07:25 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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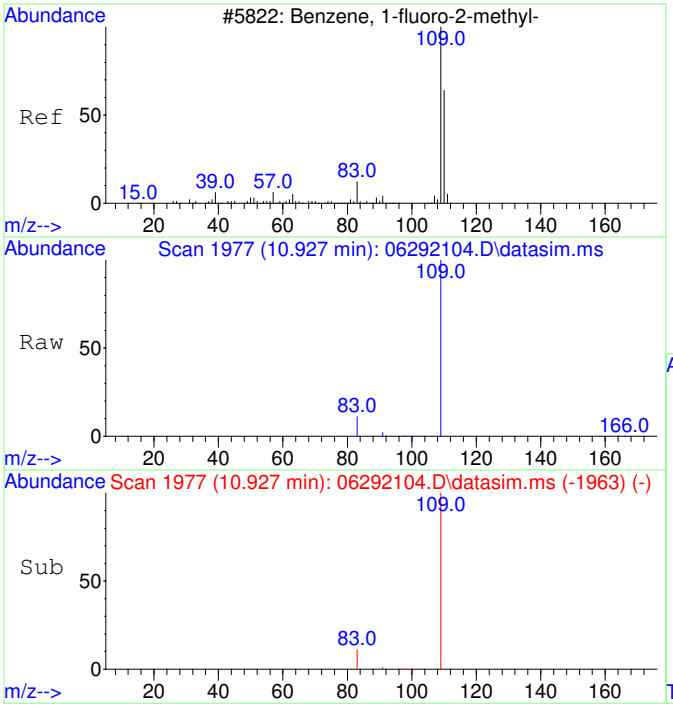
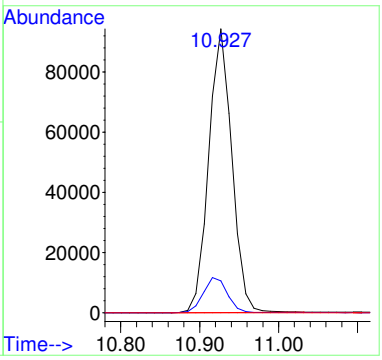
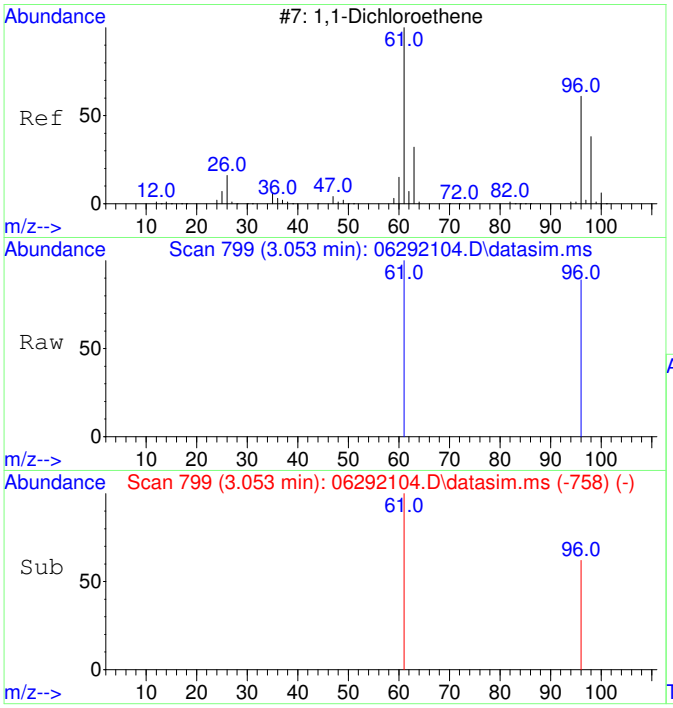


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:109 Resp: 191233

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	43.7
110	0.0	0.0	20.0

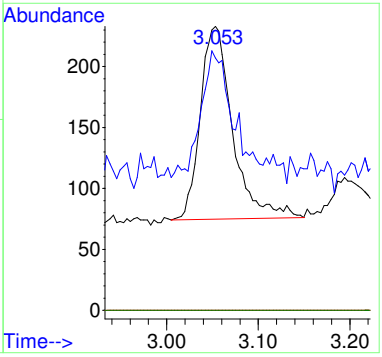


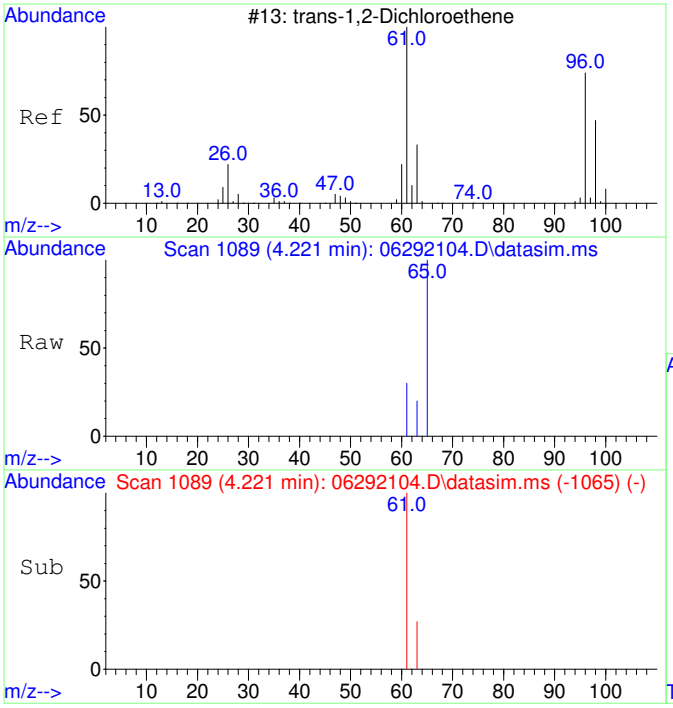


#2
1,1-Dichloroethene
Concen: 46.58 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 388

Ion	Ratio	Lower	Upper
61	100		
96	66.2	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

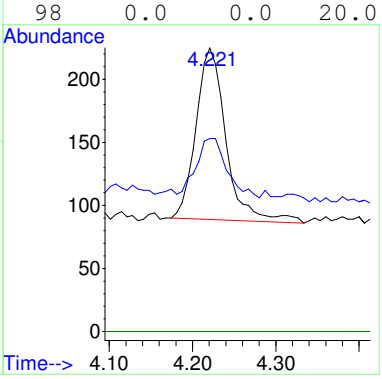


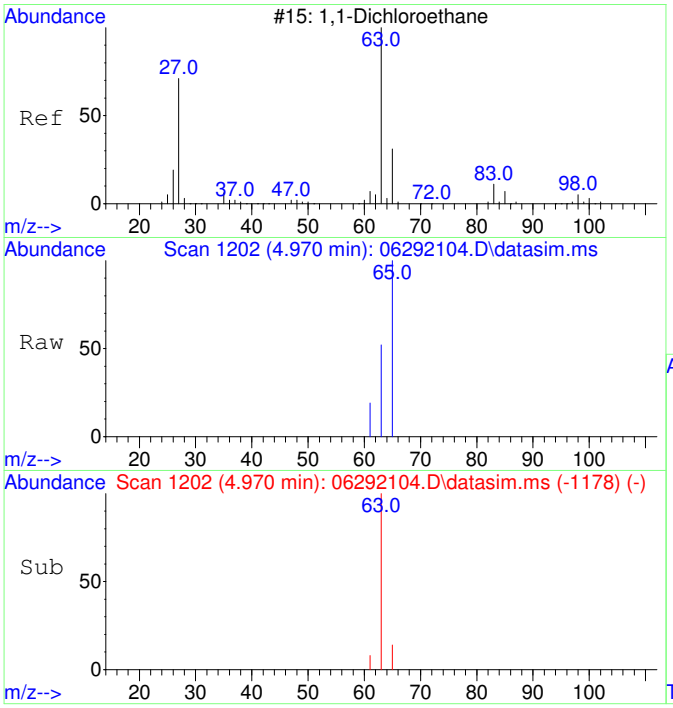


#3
trans-1,2-Dichloroethene
Concen: 47.43 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 340

Ion	Ratio	Lower	Upper
61	100		
63	37.9	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

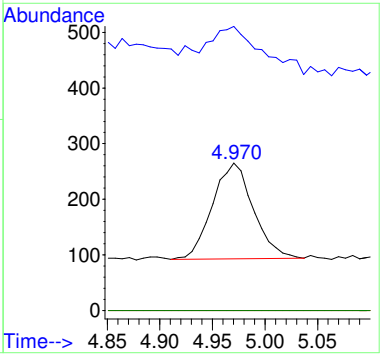


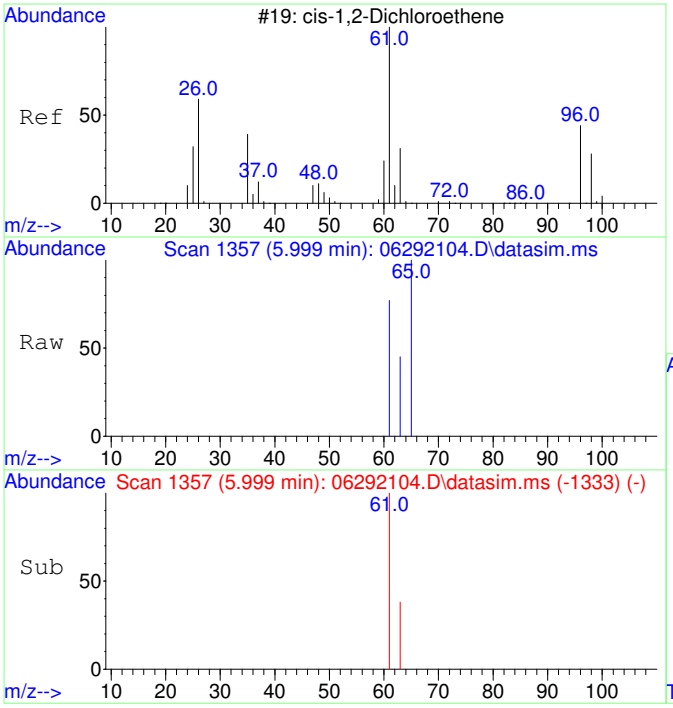


#4
1,1-Dichloroethane
Concen: 47.20 ug/L
RT: 4.970 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 63 Resp: 464

Ion	Ratio	Lower	Upper
63	100		
65	80.0	1.3	61.3#
83	0.0	0.0	20.0
98	0.0	0.0	20.0

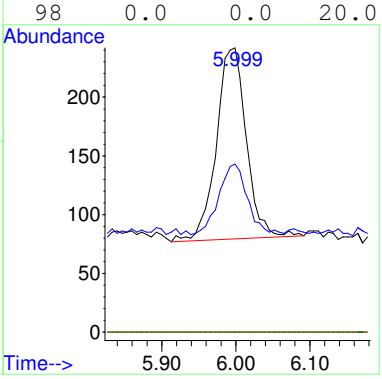


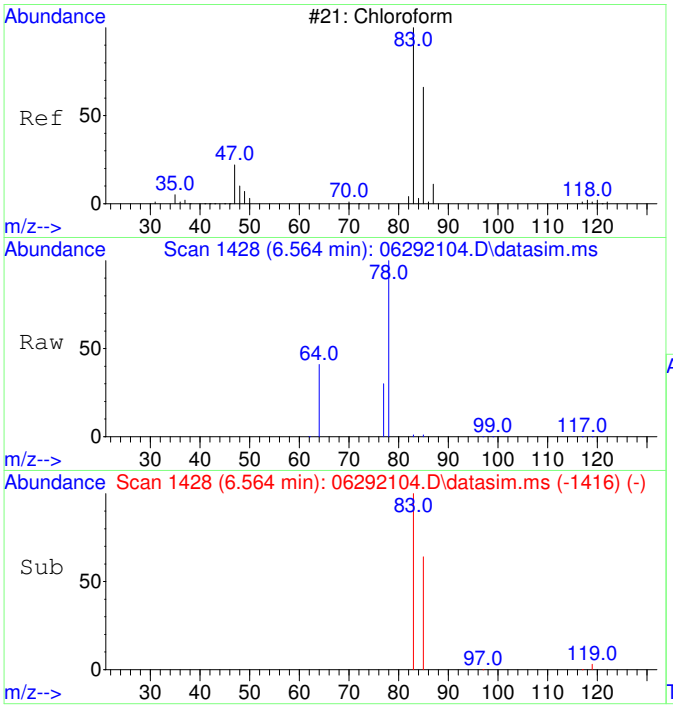


#5
cis-1,2-Dichloroethene
Concen: 48.73 ug/L
RT: 5.999 min Scan# 1357
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 459

Ion	Ratio	Lower	Upper
61	100		
63	35.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

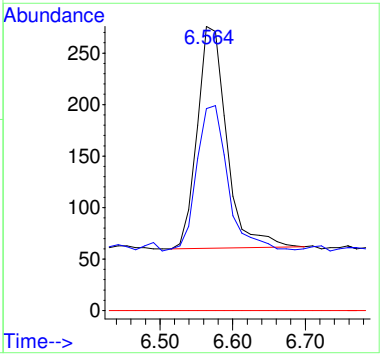


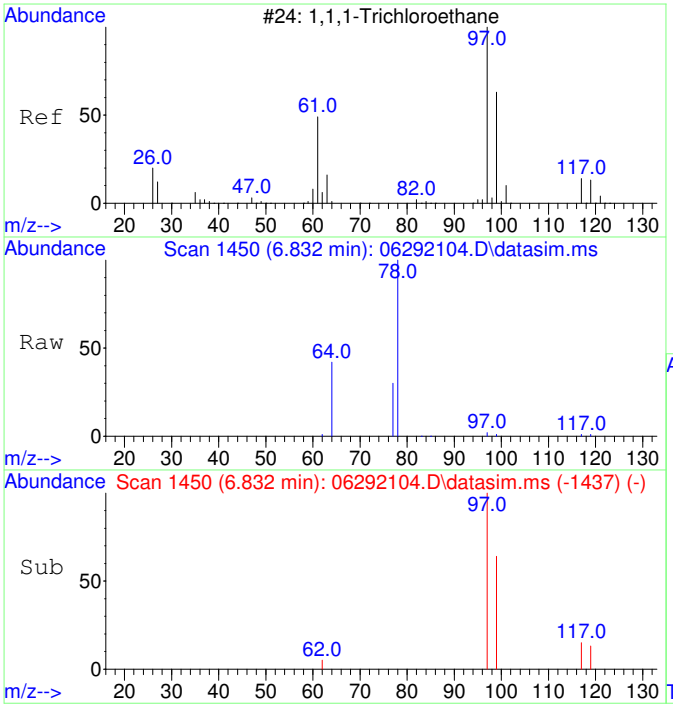


#6
Chloroform
Concen: 54.57 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 605

Ion	Ratio	Lower	Upper
83	100		
85	68.9	34.5	94.5
87	0.0	0.0	20.0

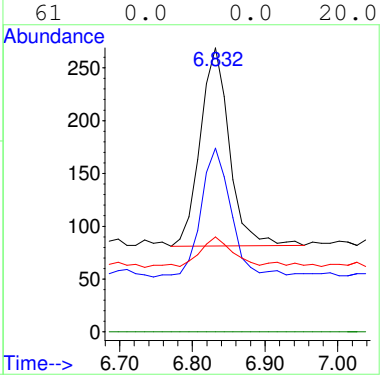


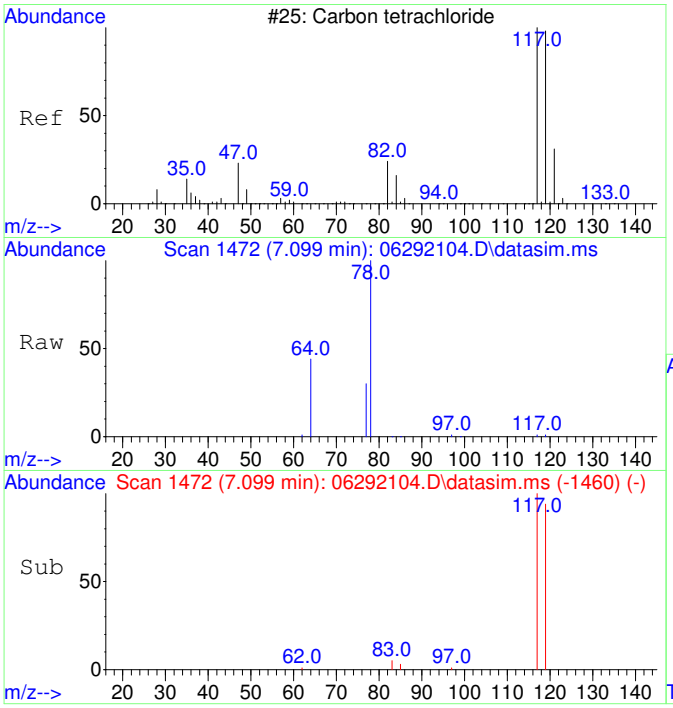


#7
1,1,1-Trichloroethane
Concen: 50.99 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 526

Ion	Ratio	Lower	Upper
97	100		
99	67.5	34.4	94.4
117	17.9	0.0	42.8
61	0.0	0.0	20.0

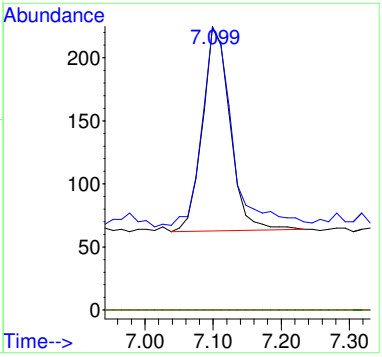


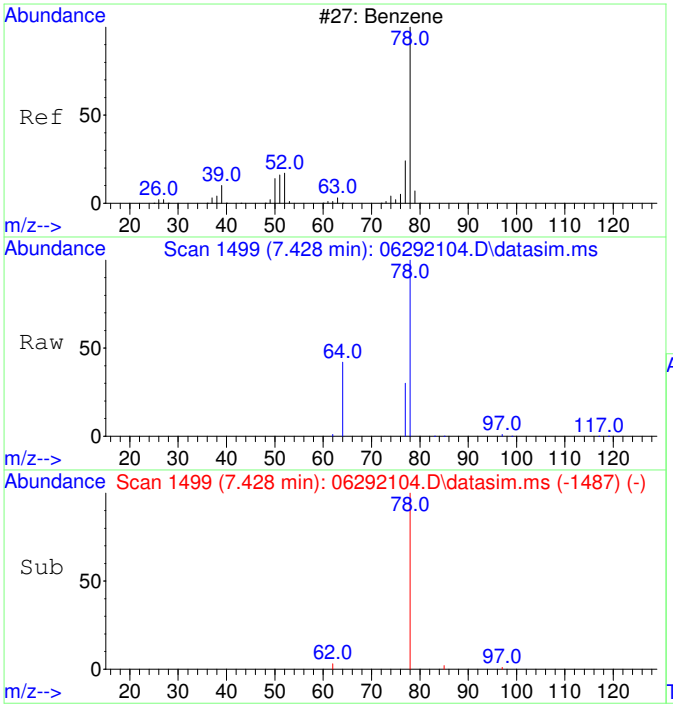


#8
Carbon tetrachloride
Concen: 50.52 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:117 Resp: 454

Ion	Ratio	Lower	Upper
117	100		
119	107.5	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

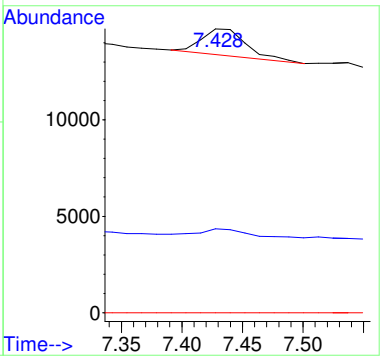


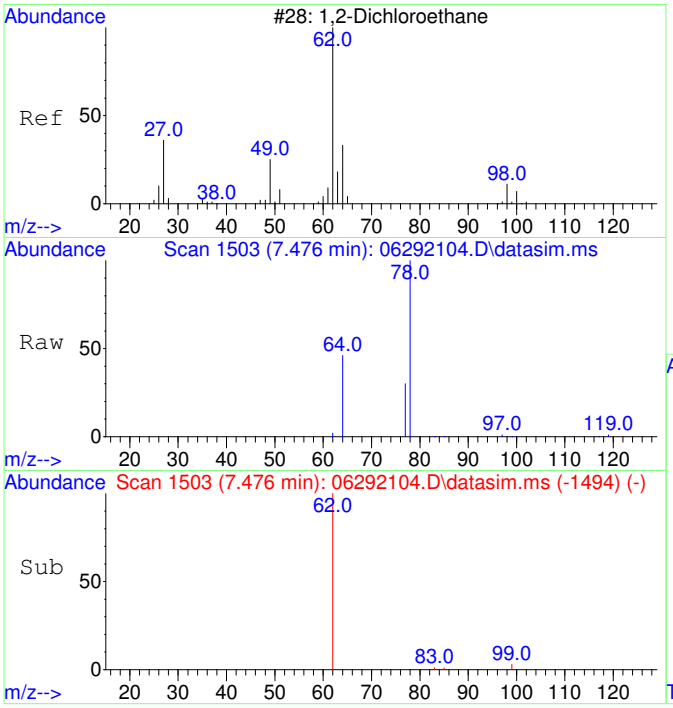


#9
Benzene
Concen: 105.01 ug/L
RT: 7.428 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 78 Resp: 3271

Ion	Ratio	Lower	Upper
78	100		
77	48.7	0.0	53.7
52	0.0	0.0	20.0

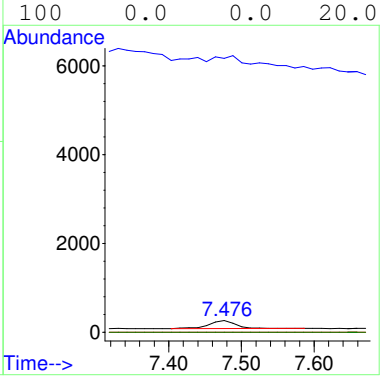


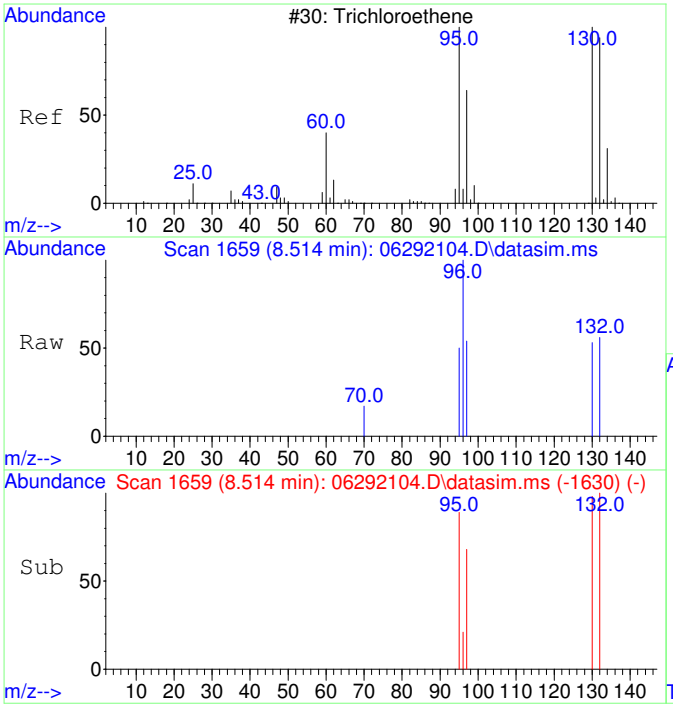


#10
1,2-Dichloroethane
Concen: 53.69 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 62 Resp: 460

Ion	Ratio	Lower	Upper
62	100		
64	92.8	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

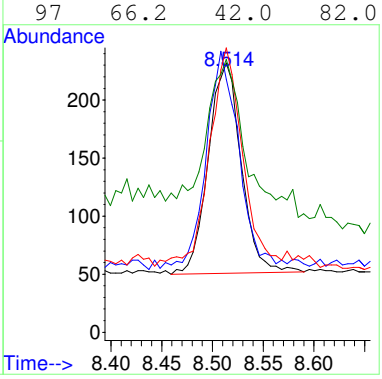


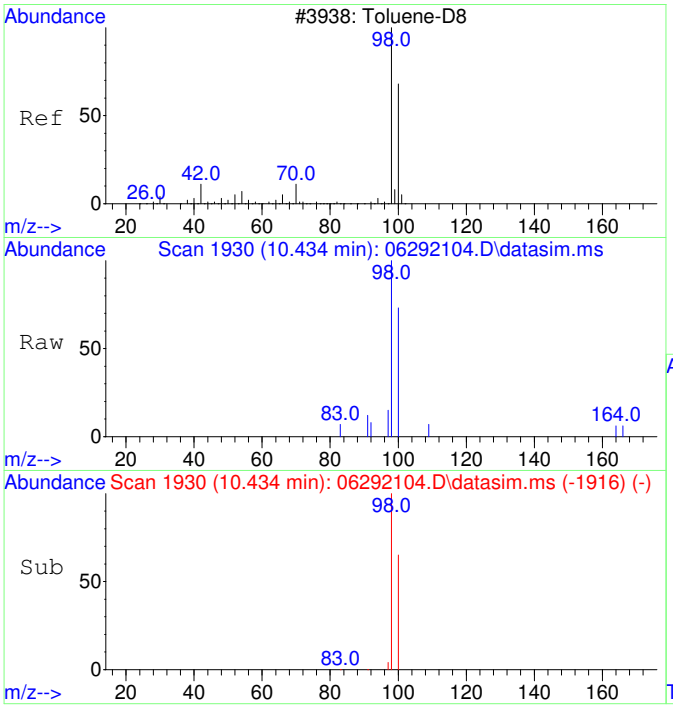


#11
Trichloroethene
Concen: 49.19 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:130 Resp: 408

Ion	Ratio	Lower	Upper
130	100		
95	102.5	65.8	125.8
132	103.9	75.8	115.8
97	66.2	42.0	82.0

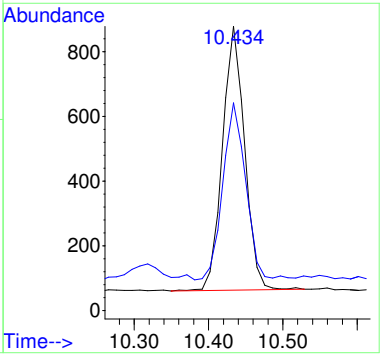


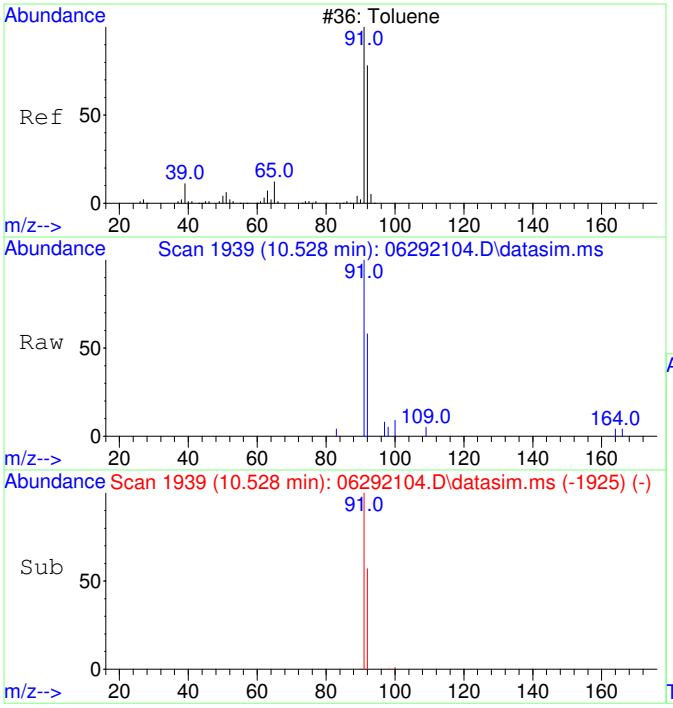


#12
Toluene-d8
Concen: 51.35 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 98 Resp: 1682

Ion	Ratio	Lower	Upper
98	100		
100	67.6	37.3	97.3

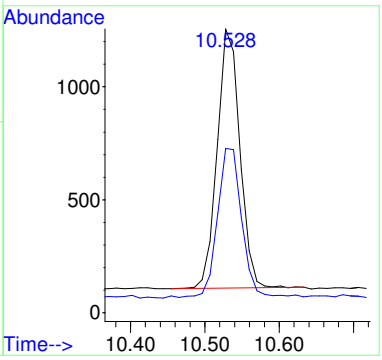


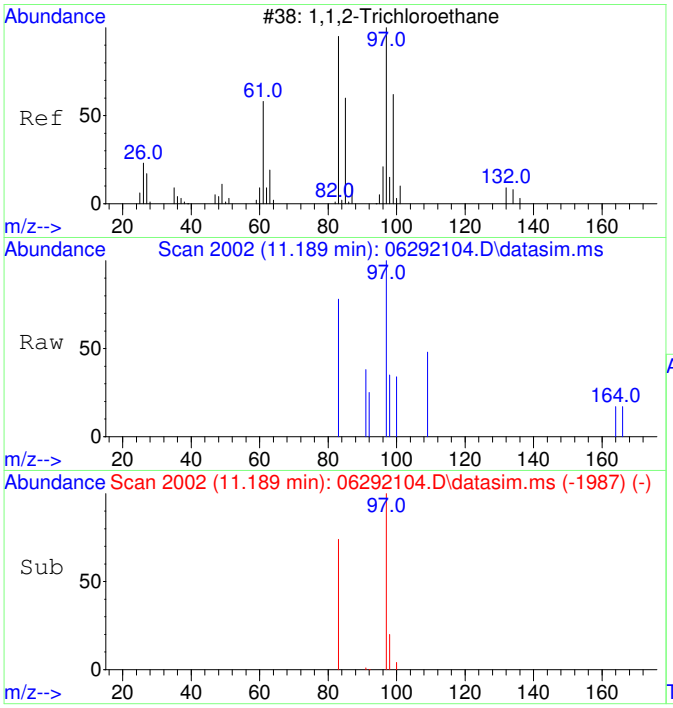


#13
Toluene
Concen: 56.83 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2423

Ion	Ratio	Lower	Upper
91	100		
92	61.9	30.2	90.2

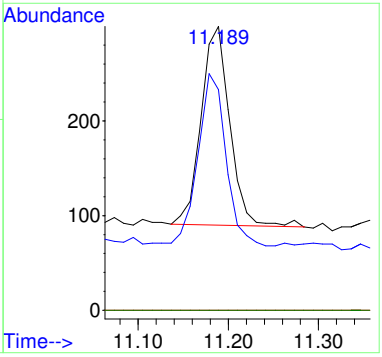


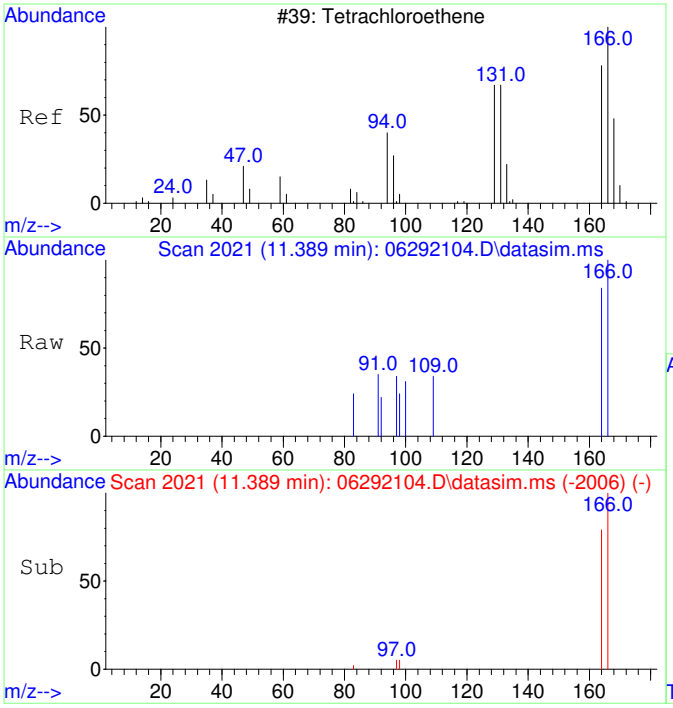


#14
1,1,2-Trichloroethane
Concen: 52.09 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 462

Ion	Ratio	Lower	Upper
97	100		
83	85.1	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

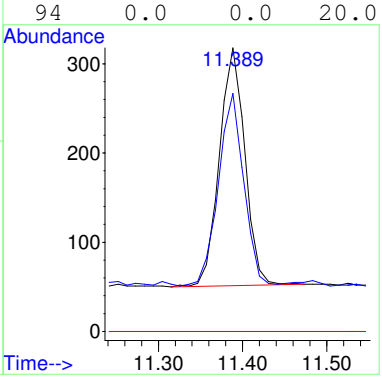


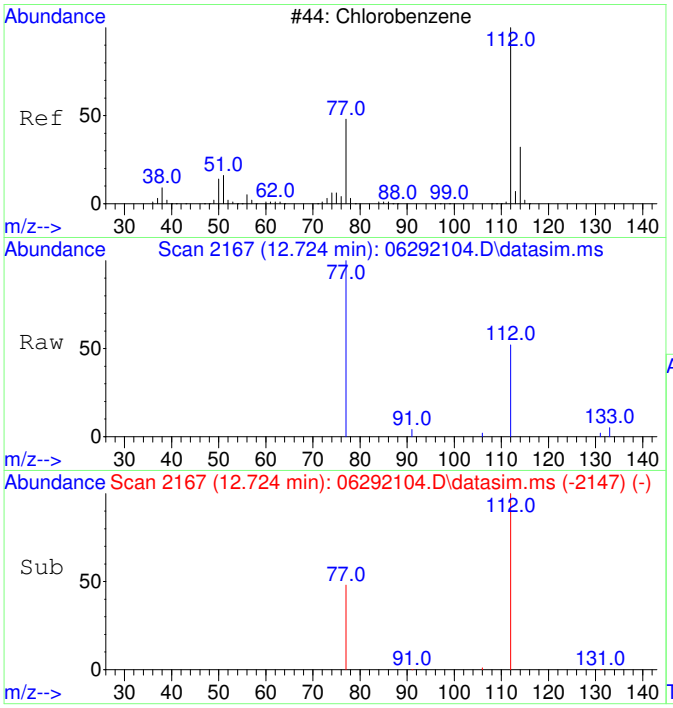


#15
Tetrachloroethene
Concen: 51.25 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:166 Resp: 559

Ion	Ratio	Lower	Upper
166	100		
164	79.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

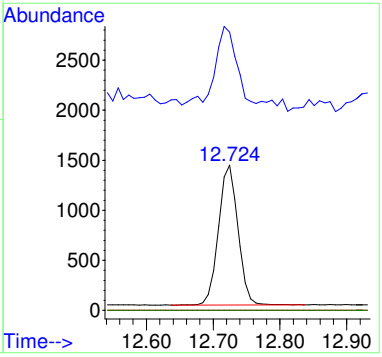


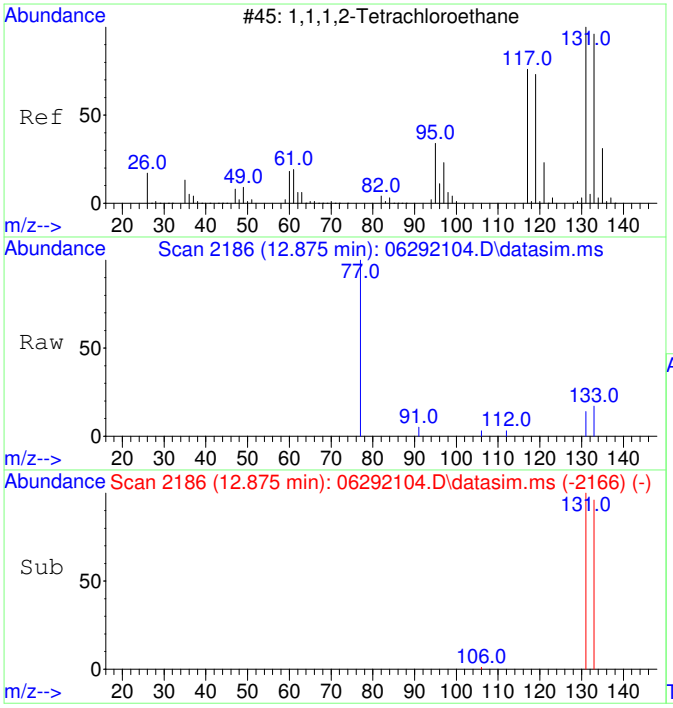


#16
Chlorobenzene
Concen: 76.62 ug/L
RT: 12.724 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:112 Resp: 2829

Ion	Ratio	Lower	Upper
112	100		
77	62.9	27.0	87.0
114	0.0	0.0	20.0
51	0.0	0.0	20.0

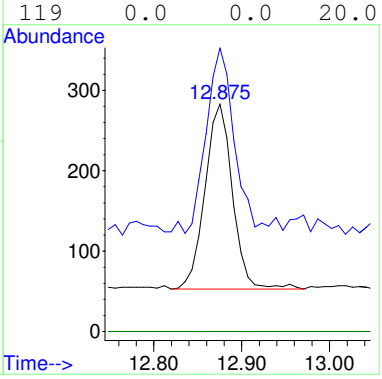


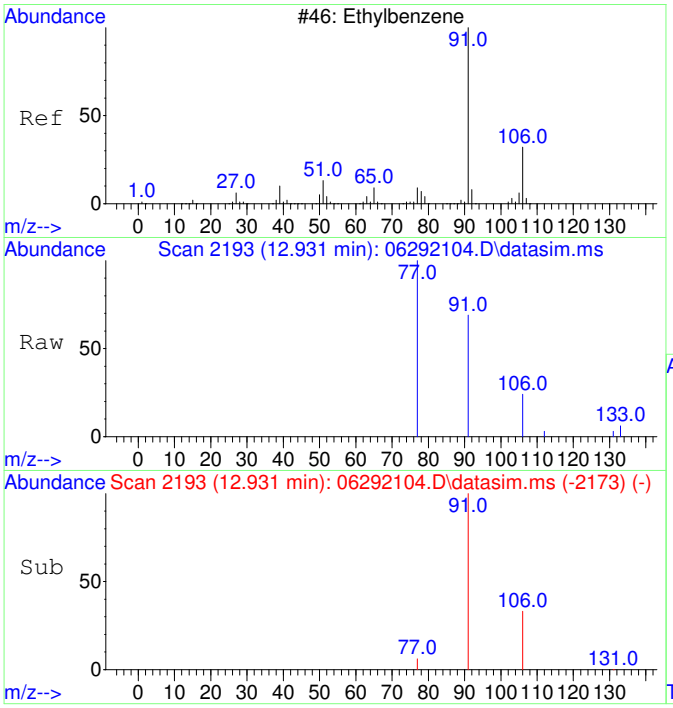


#17
1,1,1,2-Tetrachloroethane
Concen: 50.89 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:131 Resp: 500

Ion	Ratio	Lower	Upper
131	100		
133	103.8	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

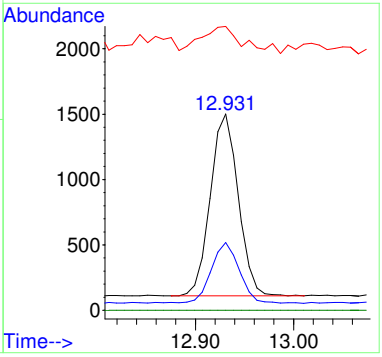


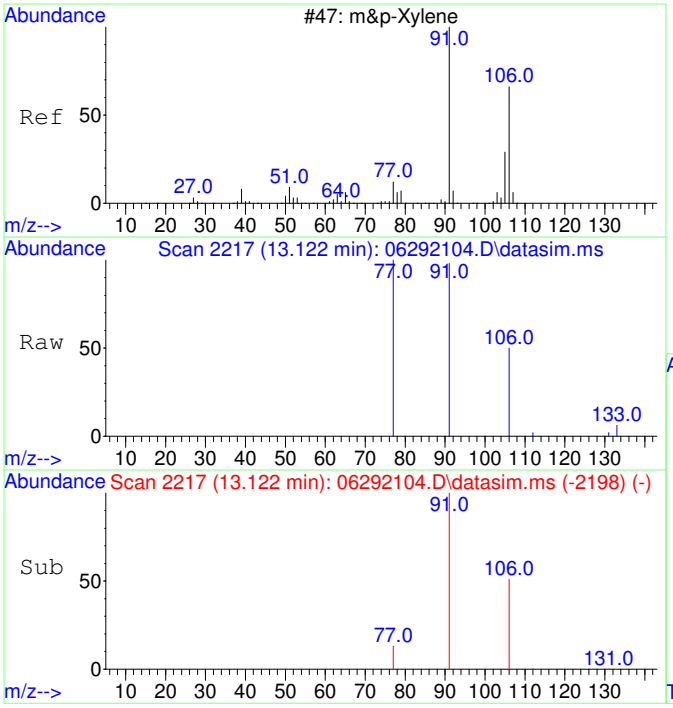


#18
Ethylbenzene
Concen: 50.15 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2746

Ion	Ratio	Lower	Upper
91	100		
106	33.5	2.8	62.8
77	16.6	0.0	38.2
105	0.0	0.0	20.0

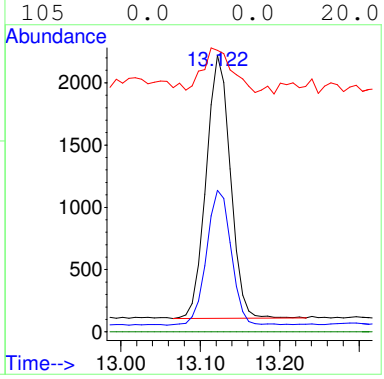


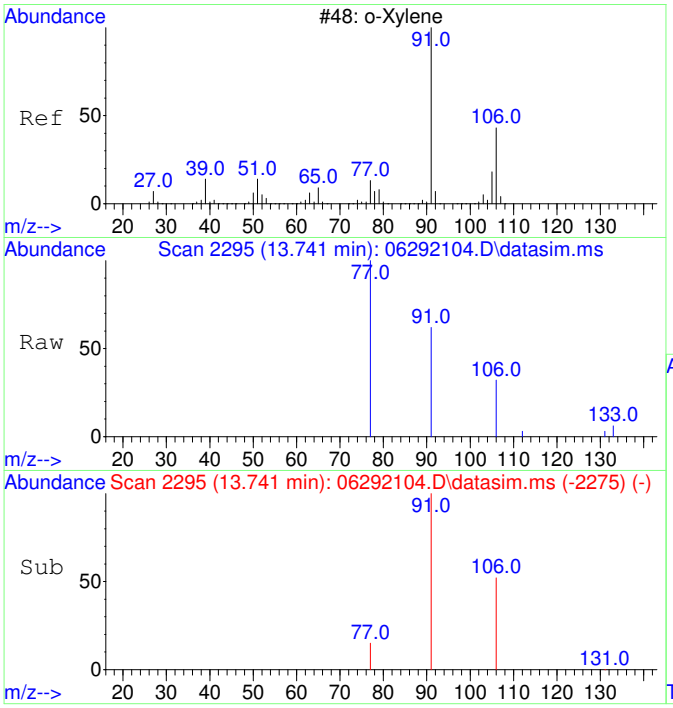


#19
m&p-Xylene
Concen: 103.37 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 4459

Ion	Ratio	Lower	Upper
91	100		
106	51.9	21.4	81.4
77	20.5	0.0	42.7
105	0.0	0.0	20.0

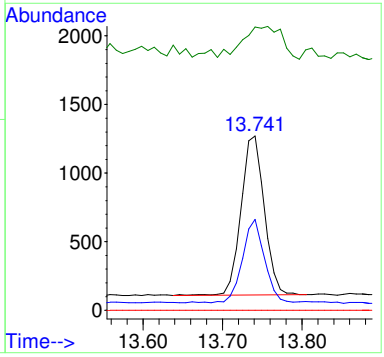


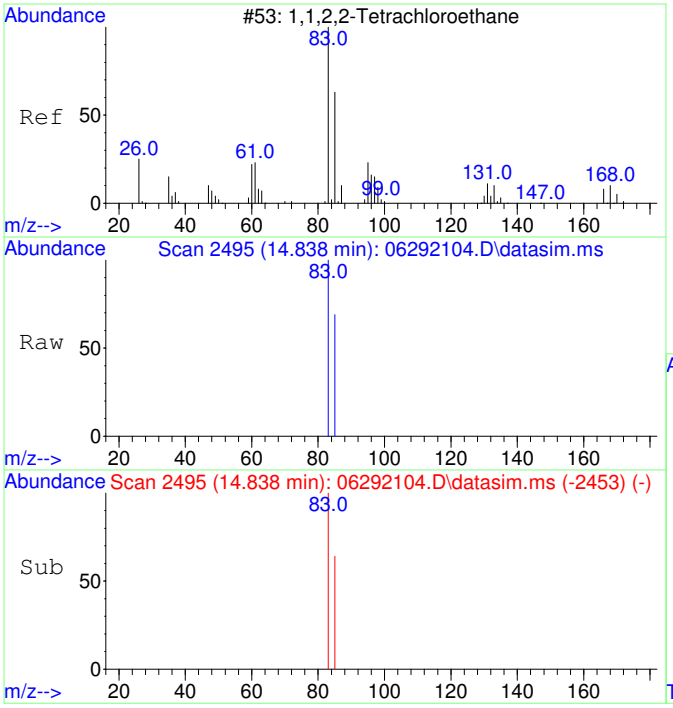


#20
o-Xylene
Concen: 50.65 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2363

Ion	Ratio	Lower	Upper
91	100		
106	48.9	18.7	78.7
105	0.0	0.0	30.0
77	35.2	7.3	47.3

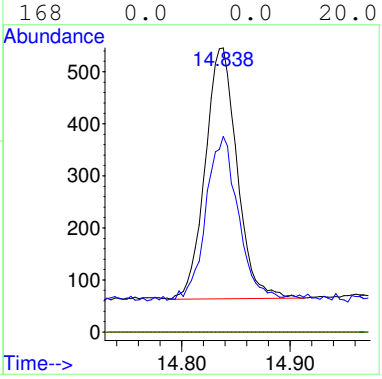


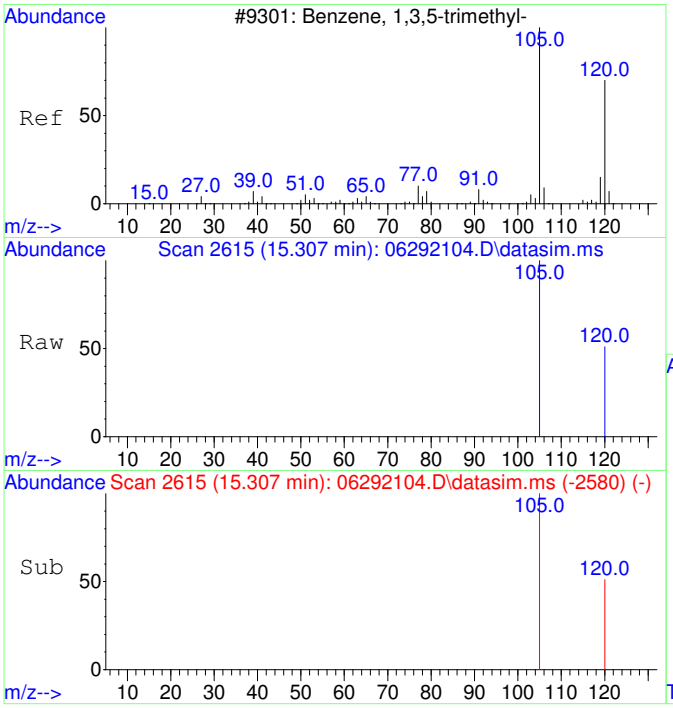


#21
1,1,2,2-Tetrachloroethane
Concen: 48.50 ug/L
RT: 14.838 min Scan# 2495
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 986

Ion	Ratio	Lower	Upper
83	100		
85	66.4	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

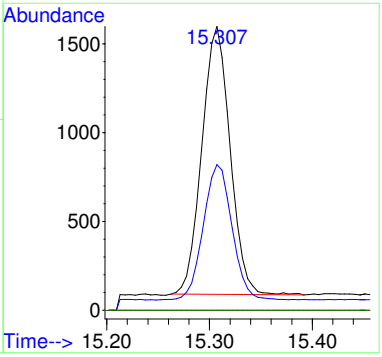


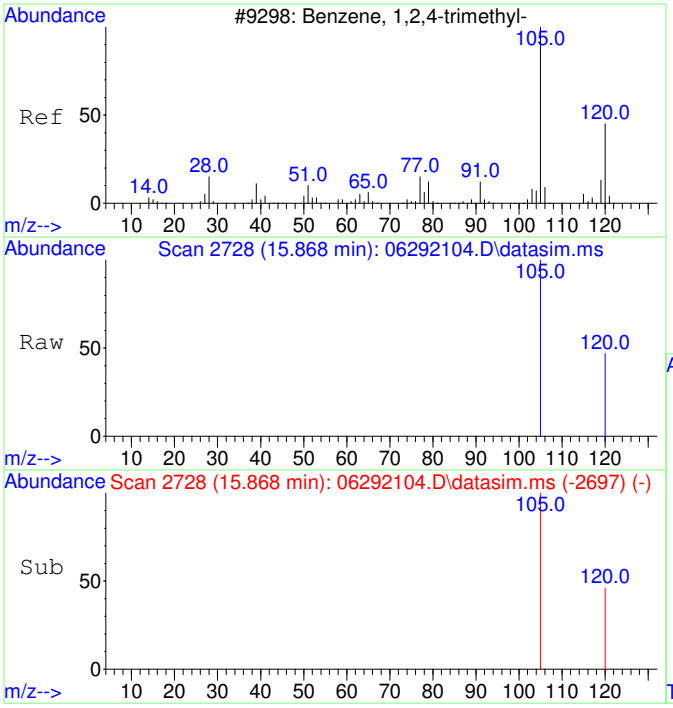


#22
1,3,5-Trimethylbenzene
Concen: 52.47 ug/L
RT: 15.307 min Scan# 2615
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2875

Ion	Ratio	Lower	Upper
105	100		
120	50.5	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

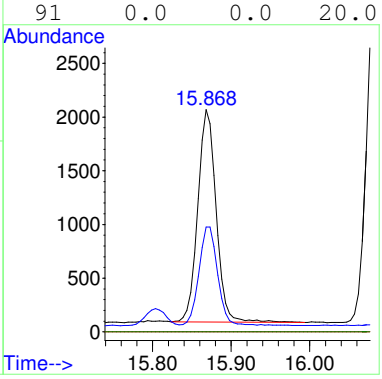


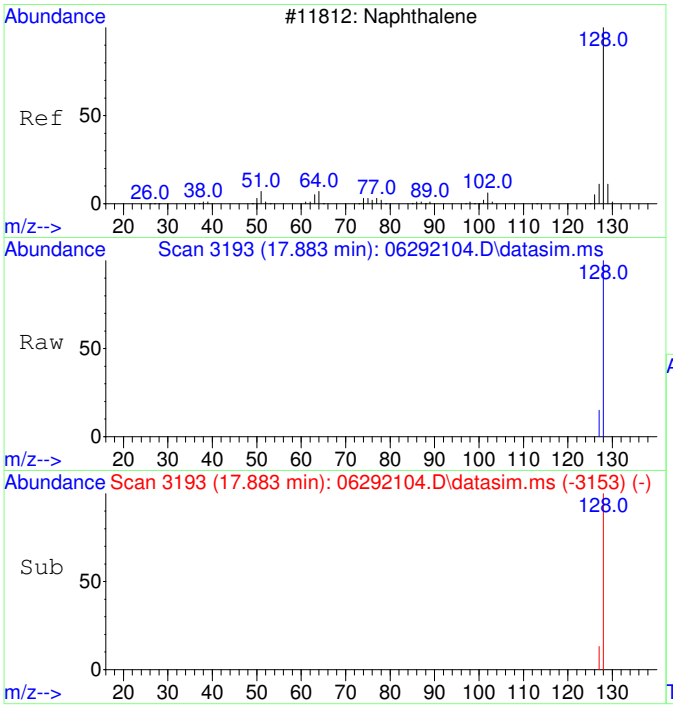


#23
1,2,4-Trimethylbenzene
Concen: 56.26 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 3211

Ion	Ratio	Lower	Upper
105	100		
120	46.6	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

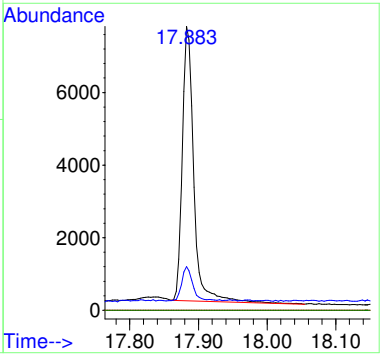


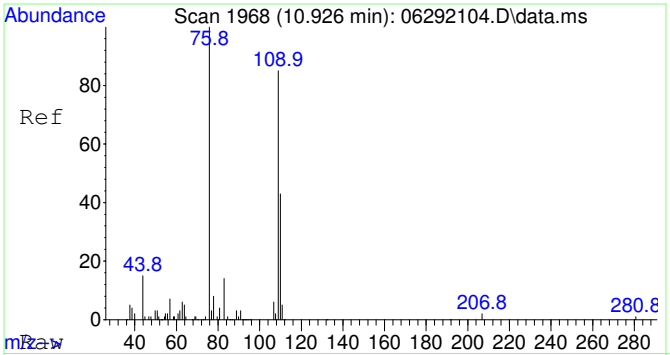


#24
Naphthalene
Concen: 82.39 ug/L
RT: 17.883 min Scan# 3193
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:128 Resp: 8783

Ion	Ratio	Lower	Upper
128	100		
127	12.0	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

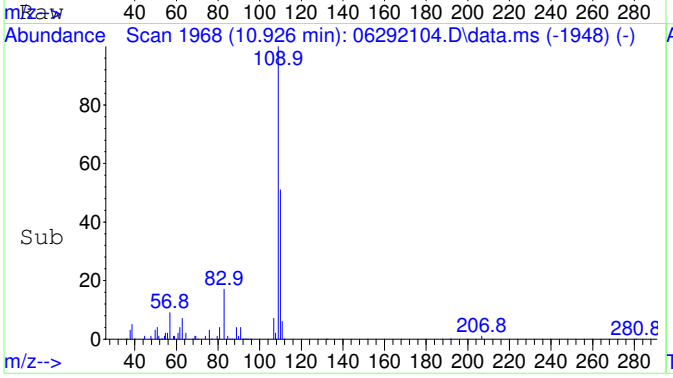


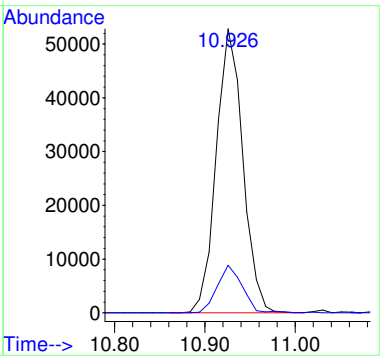


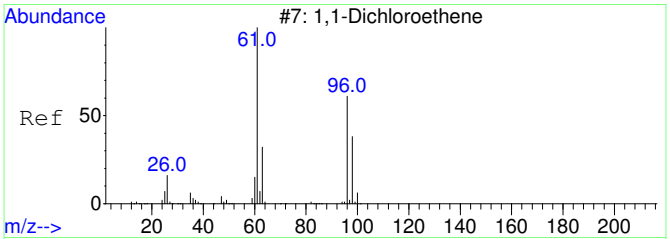
#25
2-Fluorotoluene SCAN
Concen: 4615.50 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:109 Resp: 108639

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	44.5



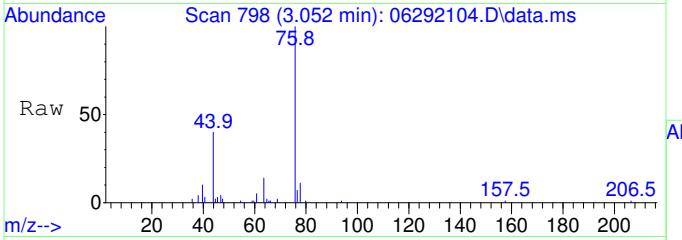


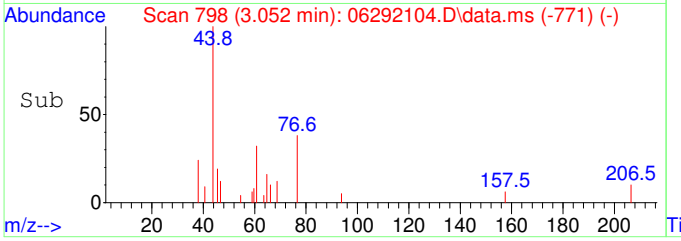


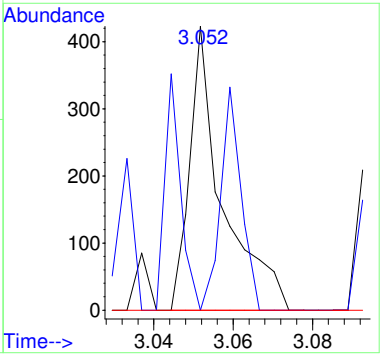
#26
1,1-Dichloroethene SCAN
Concen: 48.68 ug/L
RT: 3.052 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

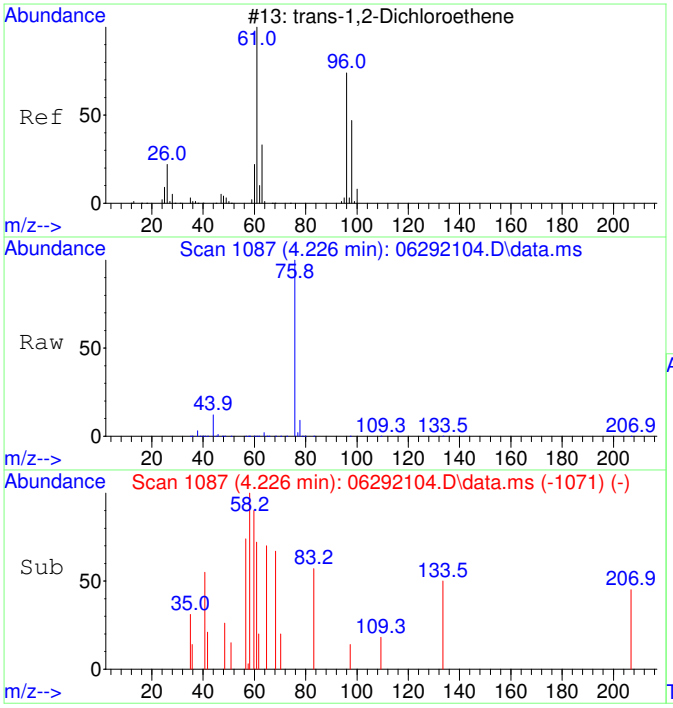
Tgt Ion: 61 Resp: 242

Ion	Ratio	Lower	Upper
61	100		
96	40.5	33.0	93.0
98	0.0	12.5	72.5#





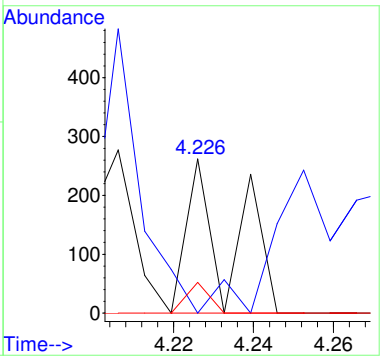


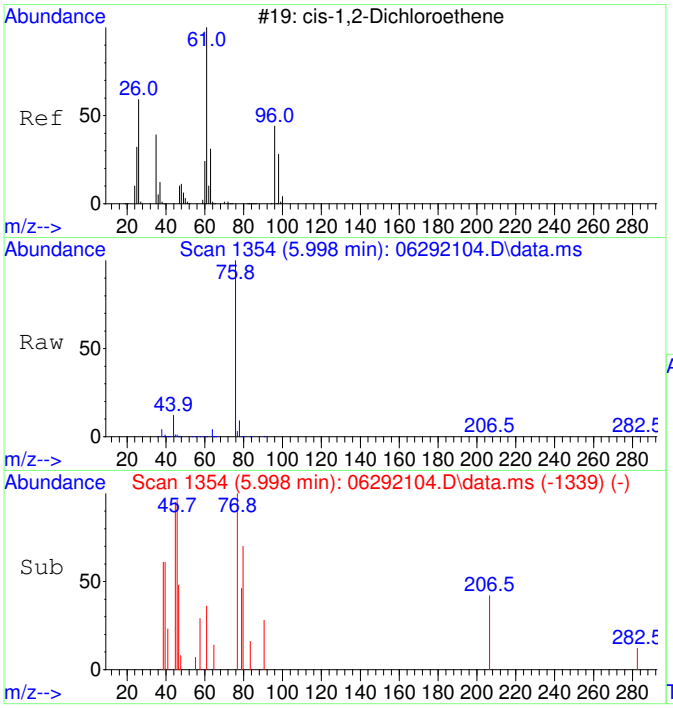


#27
trans-1,2-Dichloroethene SCAN
Concen: 36.81 ug/L
RT: 4.226 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 198

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	109.3#
98	0.0	24.0	84.0#

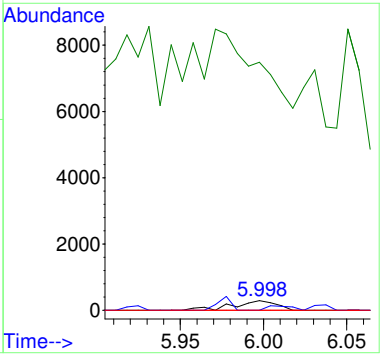


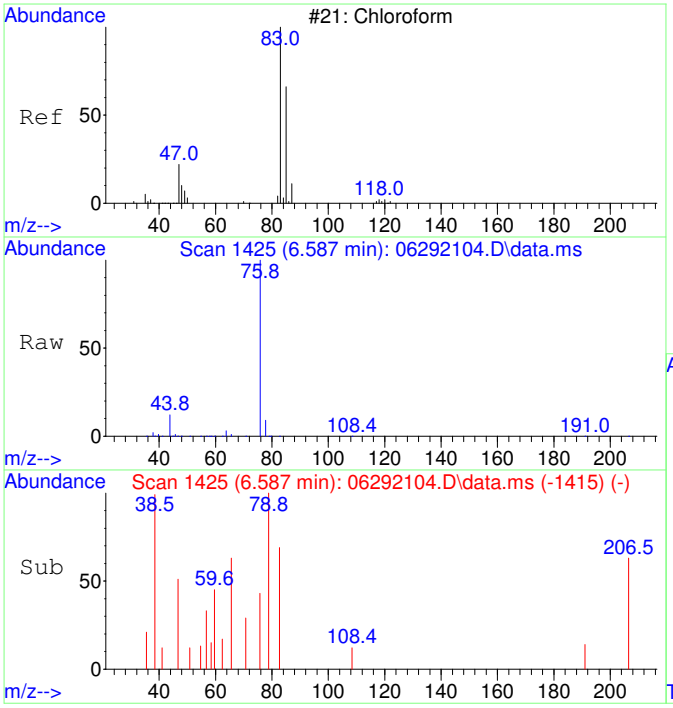


#29
cis-1,2-Dichloroethene SCAN
Concen: 73.71 ug/L
RT: 5.998 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 536

Ion	Ratio	Lower	Upper
61	100		
96	26.9	36.9	96.9#
98	0.0	12.1	72.1#
64	0.0	0.0	32.6

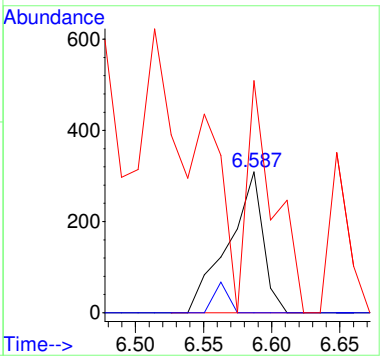


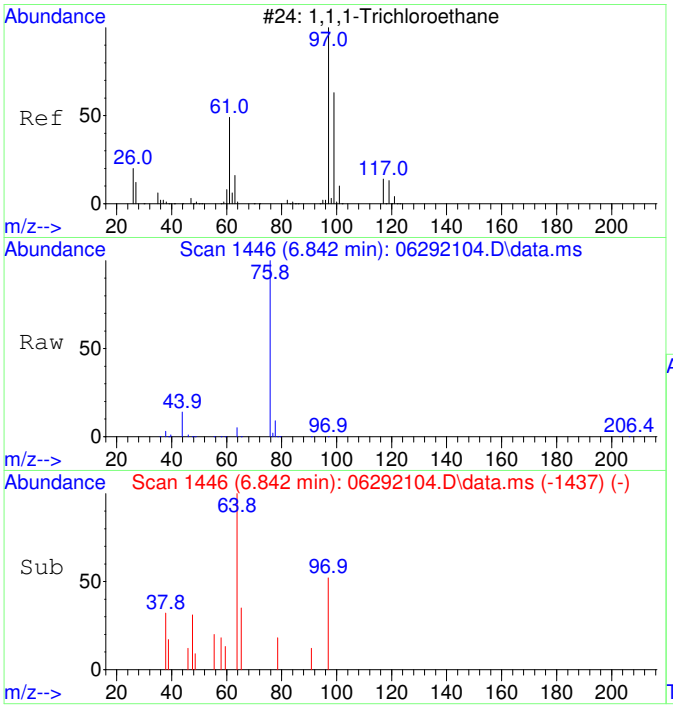


#30
Chloroform SCAN
Concen: 71.39 ug/L
RT: 6.587 min Scan# 1425
Delta R.T. 0.024 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 549

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	127.5	7.5	67.5#

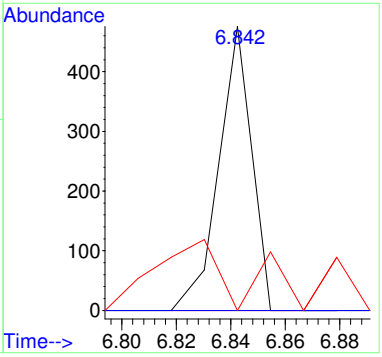


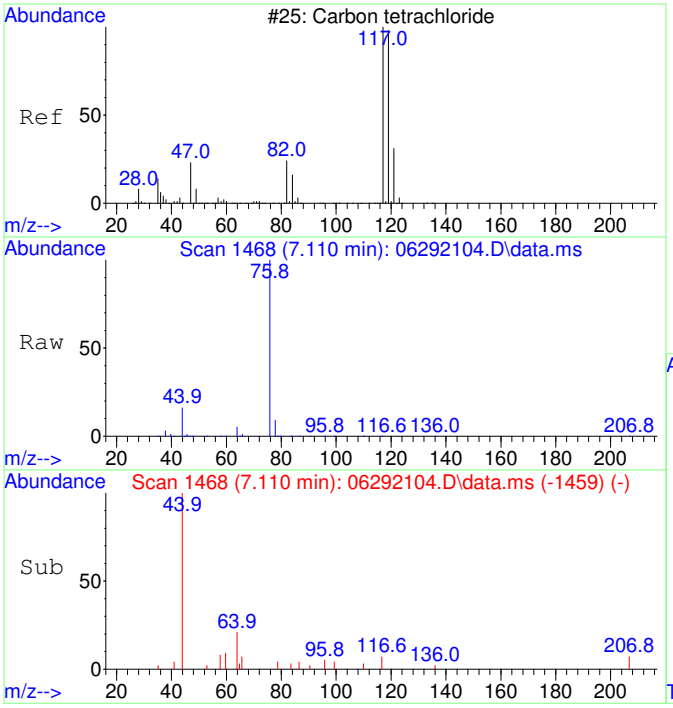


#31
1,1,1-Trichloroethane SCAN
Concen: 55.25 ug/L
RT: 6.842 min Scan# 1446
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 397

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	48.1	11.4	71.4

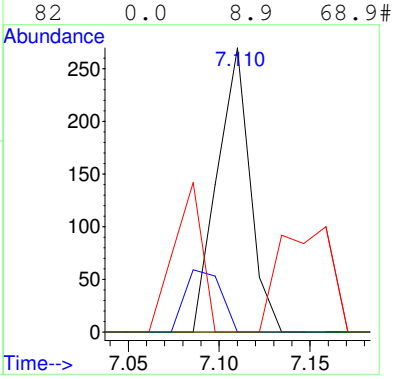


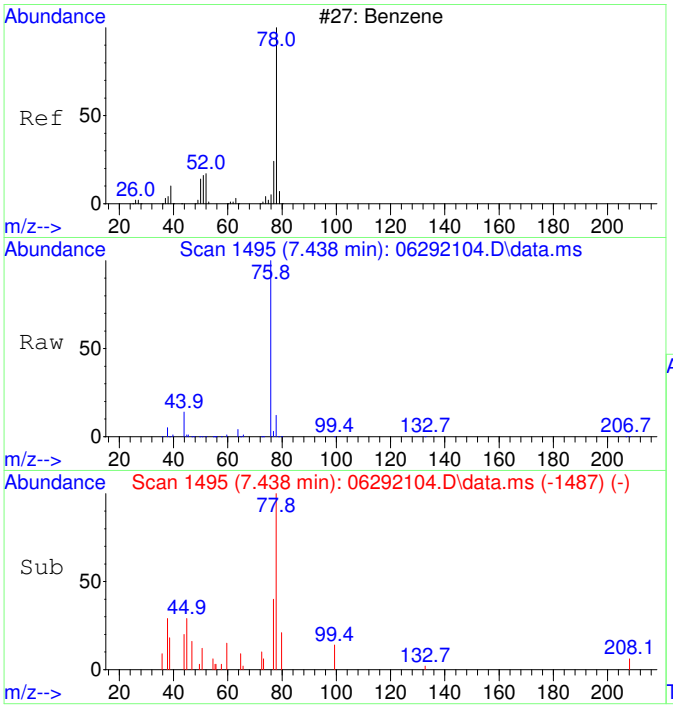


#32
Carbon tetrachloride SCAN
Concen: 56.84 ug/L
RT: 7.110 min Scan# 1468
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:117 Resp: 337

Ion	Ratio	Lower	Upper
117	100		
119	0.0	68.0	128.0#
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

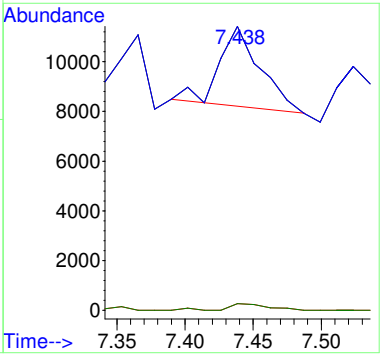


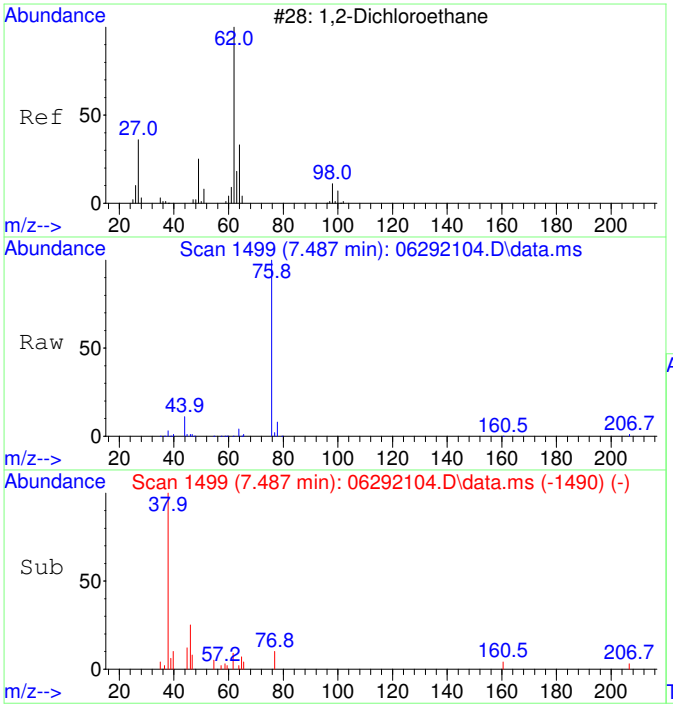


#33
Benzene SCAN
Concen: 357.85 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 78 Resp: 6456

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.7	0.0	46.7
51	8.7	0.0	46.7

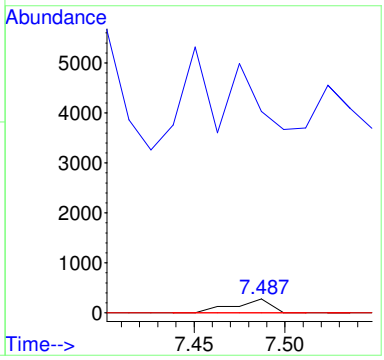


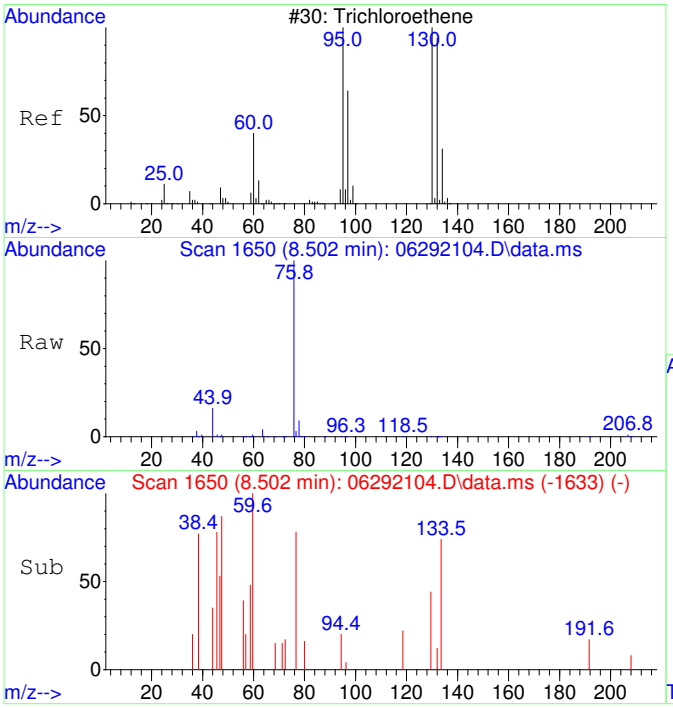


#34
1,2-Dichloroethane SCAN
Concen: 69.10 ug/L
RT: 7.487 min Scan# 1499
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 62 Resp: 393

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

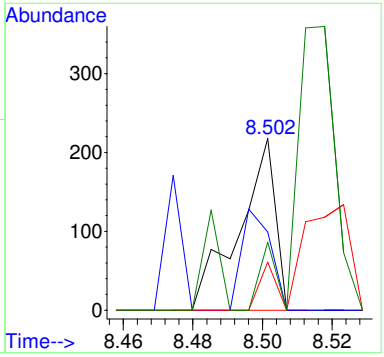


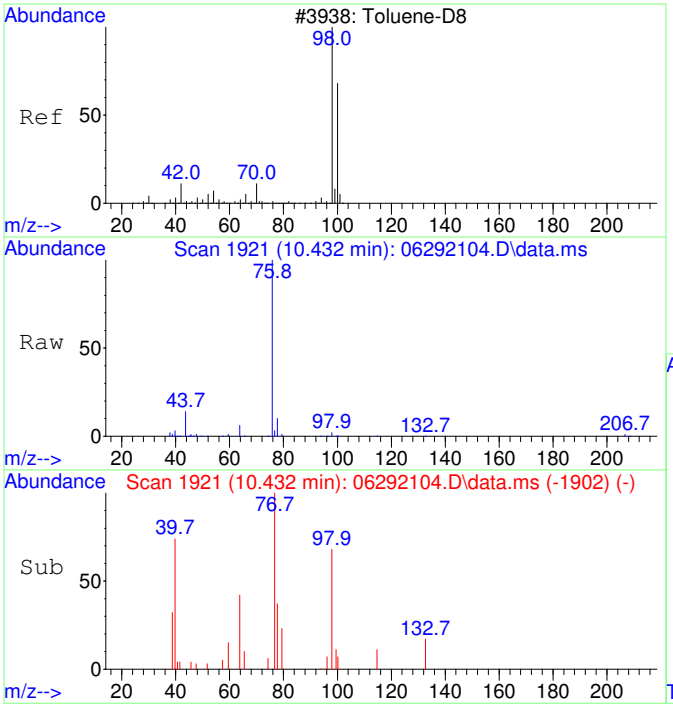


#35
Trichloroethene SCAN
Concen: 34.58 ug/L
RT: 8.502 min Scan# 1650
Delta R.T. -0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:130 Resp: 159

Ion	Ratio	Lower	Upper
130	100		
95	46.5	60.0	120.0#
132	0.0	54.3	114.3#
97	0.0	24.6	84.6#

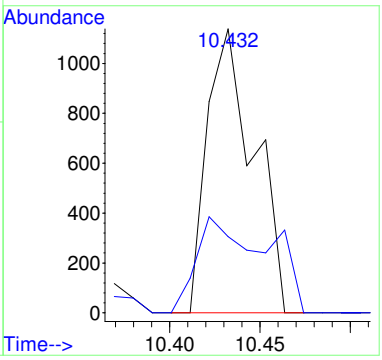


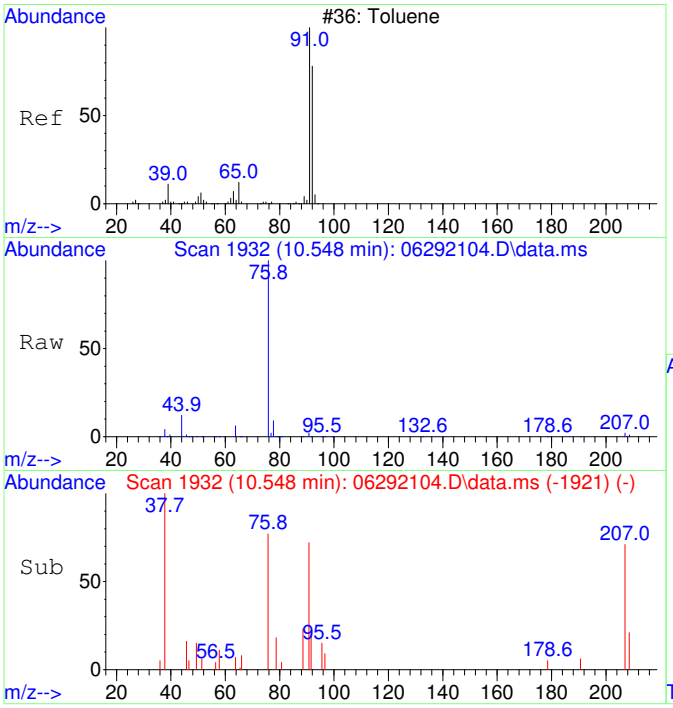


#36
Toluene-d8 SCAN
Concen: 100.81 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 98 Resp: 2058

Ion	Ratio	Lower	Upper
98	100		
100	50.6	36.1	96.1

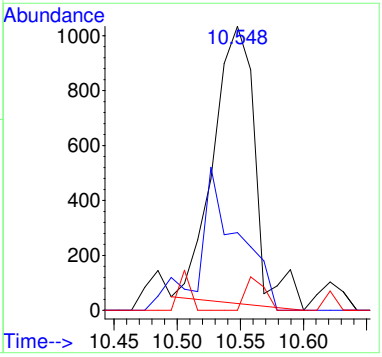


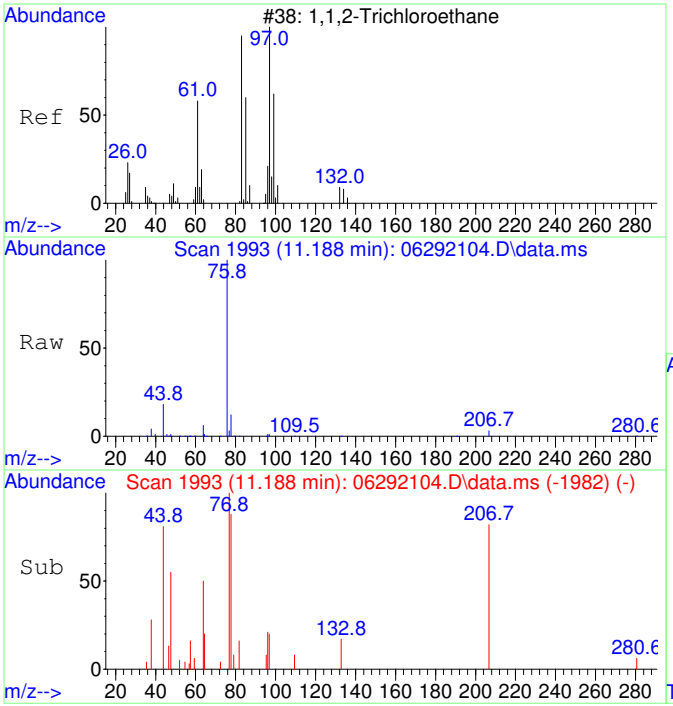


#37
Toluene SCAN
Concen: 87.92 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2323

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.5	86.5#
65	5.6	0.0	40.6

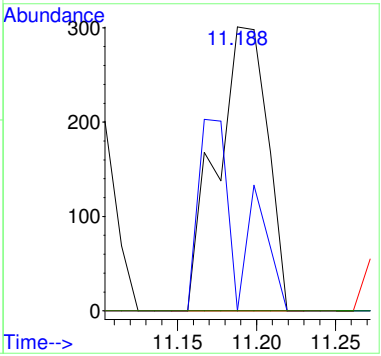


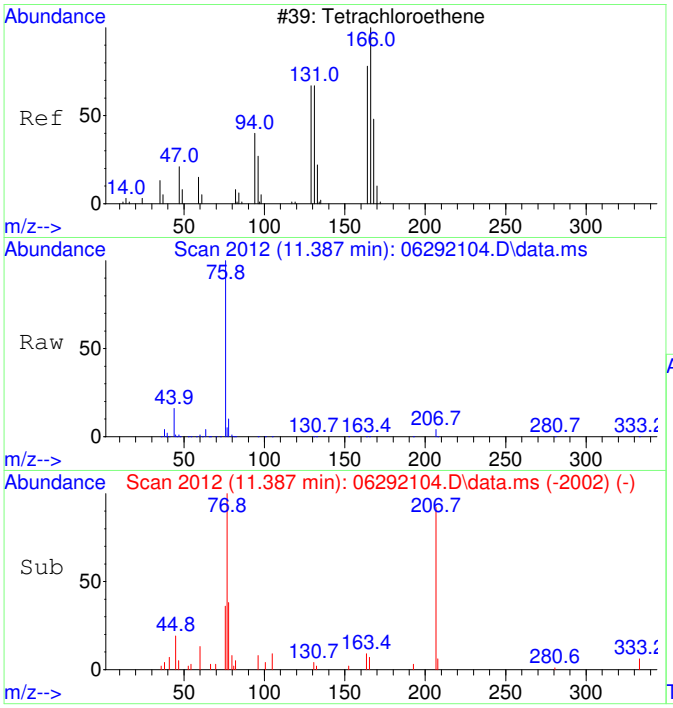


#38
1,1,2-Trichloroethane SCAN
Concen: 107.40 ug/L
RT: 11.188 min Scan# 1993
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 676

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

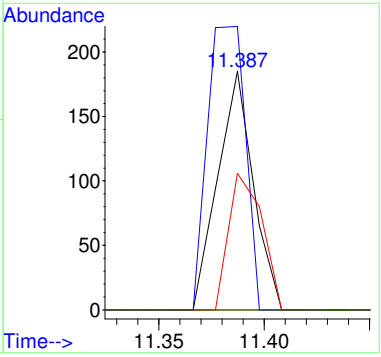


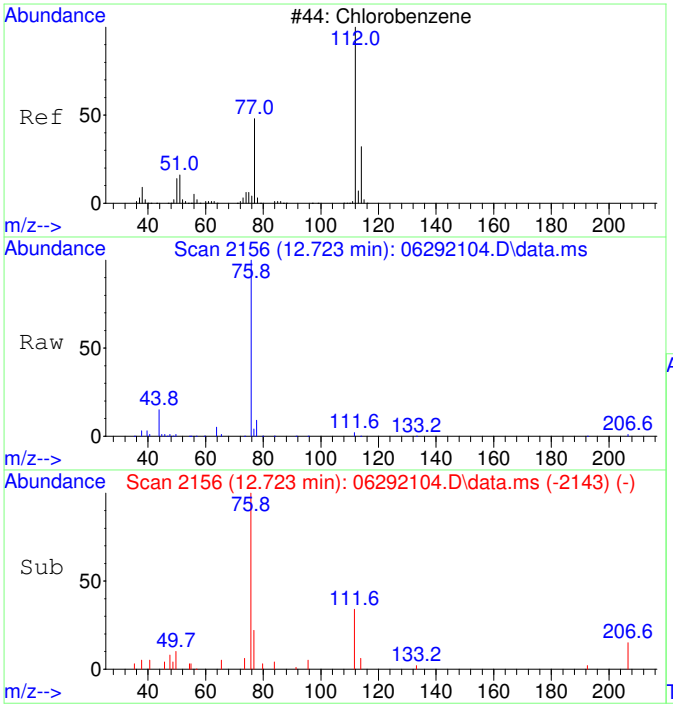


#39
Tetrachloroethene SCAN
Concen: 34.10 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:166 Resp: 217

Ion	Ratio	Lower	Upper
166	100		
164	127.2	53.9	113.9#
131	53.9	45.6	105.6
129	0.0	51.3	111.3#

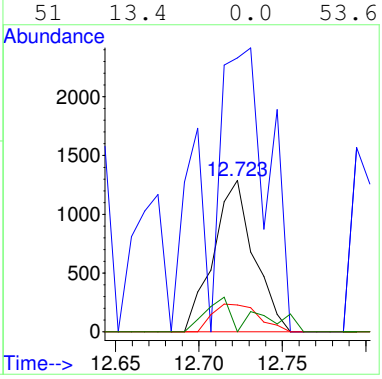


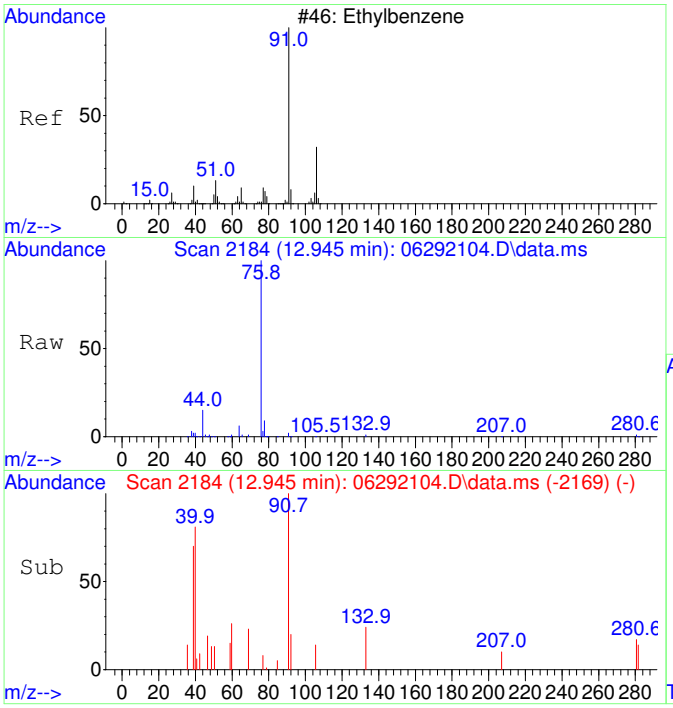


#40
Chlorobenzene SCAN
Concen: 110.32 ug/L
RT: 12.723 min Scan# 2156
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:112 Resp: 2173

Ion	Ratio	Lower	Upper
112	100		
77	214.5	48.5	108.5#
114	20.9	4.9	64.9
51	13.4	0.0	53.6

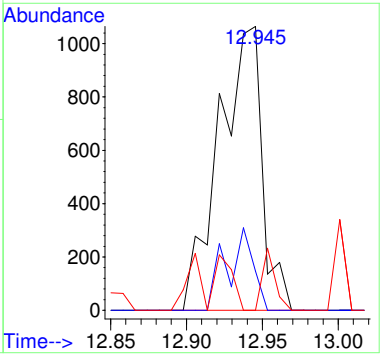


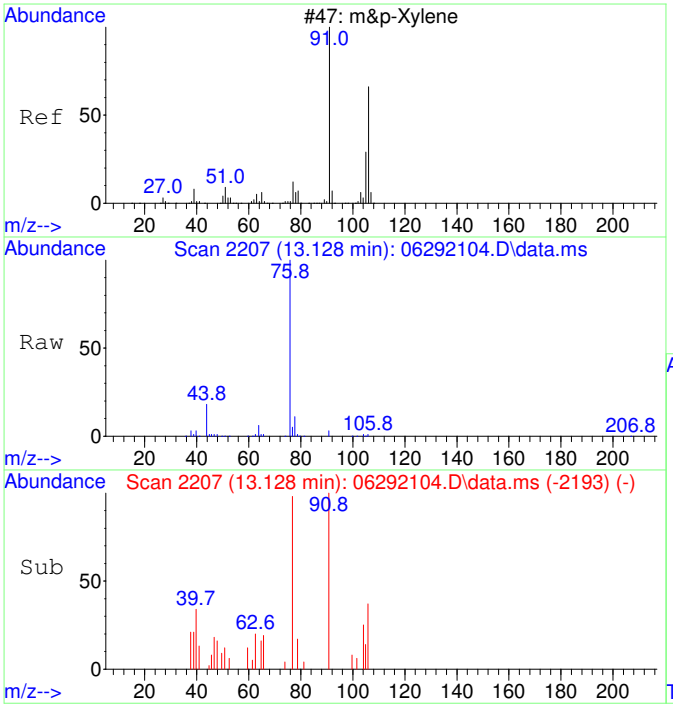


#42
Ethylbenzene SCAN
Concen: 59.65 ug/L
RT: 12.945 min Scan# 2184
Delta R.T. 0.016 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2101

Ion	Ratio	Lower	Upper
91	100		
106	18.0	0.5	60.5
51	6.4	0.0	39.6

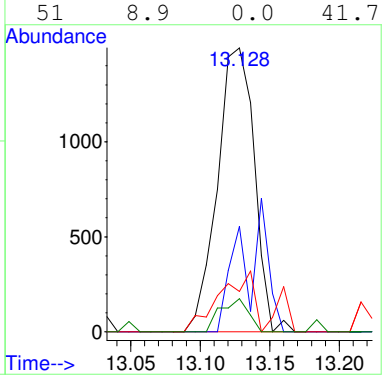


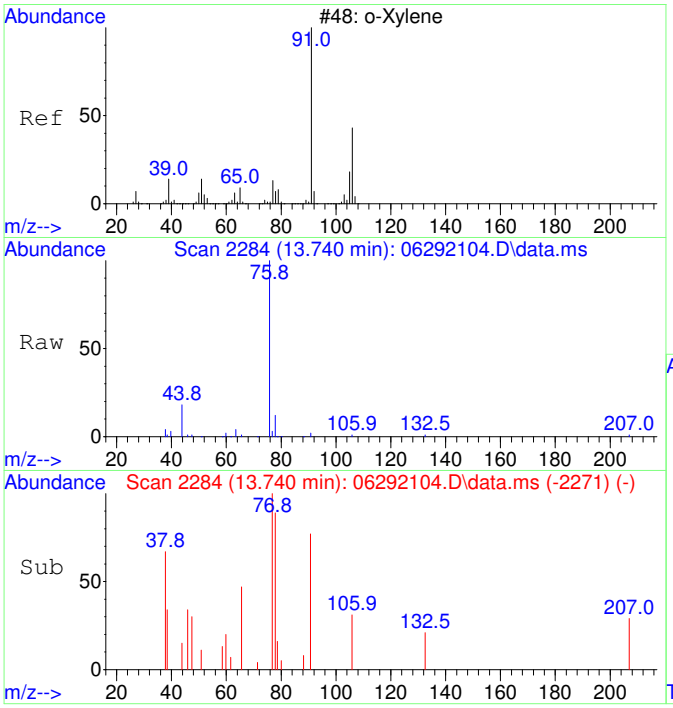


#43
m&p-Xylene SCAN
Concen: 52.54 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2761

Ion	Ratio	Lower	Upper
91	100		
106	14.2	21.2	81.2#
105	15.7	0.0	51.6
51	8.9	0.0	41.7

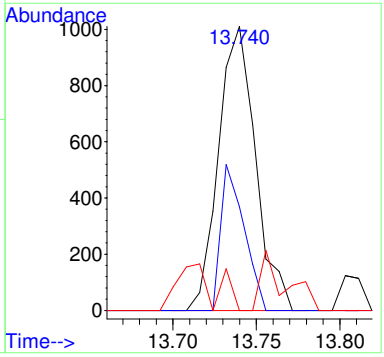


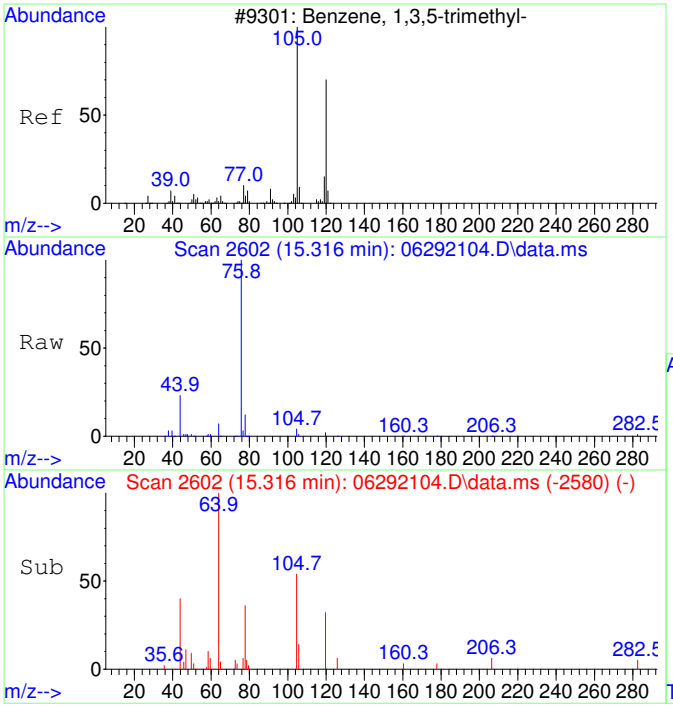


#44
o-Xylene SCAN
Concen: 54.04 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 1562

Ion	Ratio	Lower	Upper
91	100		
106	32.1	19.1	79.1
105	0.0	0.0	55.6

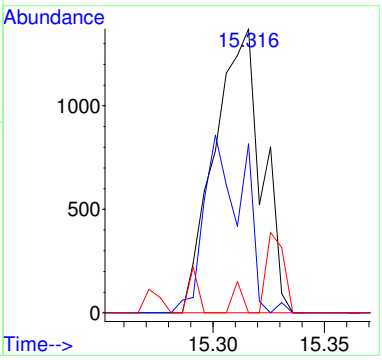


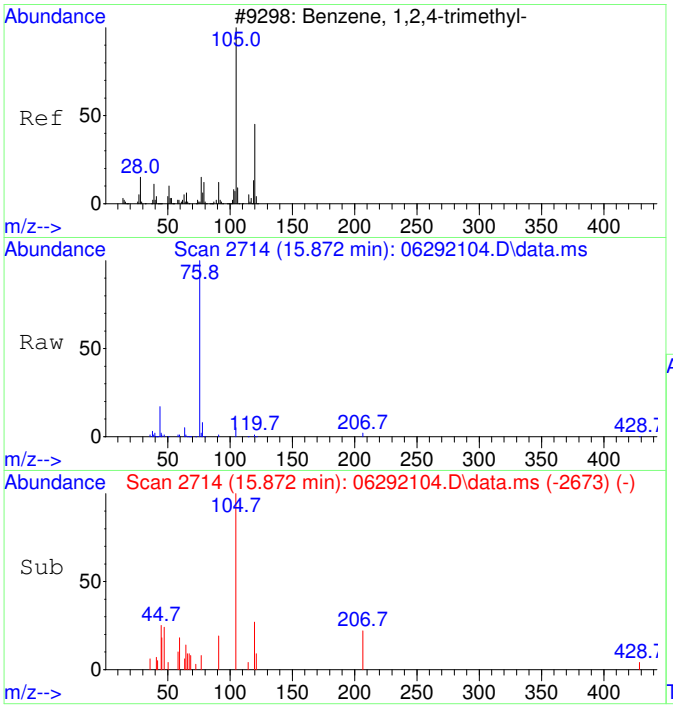


#46
1,3,5-Trimethylbenzene SCAN
Concen: 63.88 ug/L
RT: 15.316 min Scan# 2602
Delta R.T. 0.015 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2027

Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.2	80.2#
119	12.6	0.0	43.8

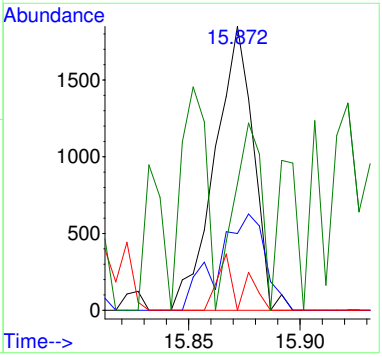


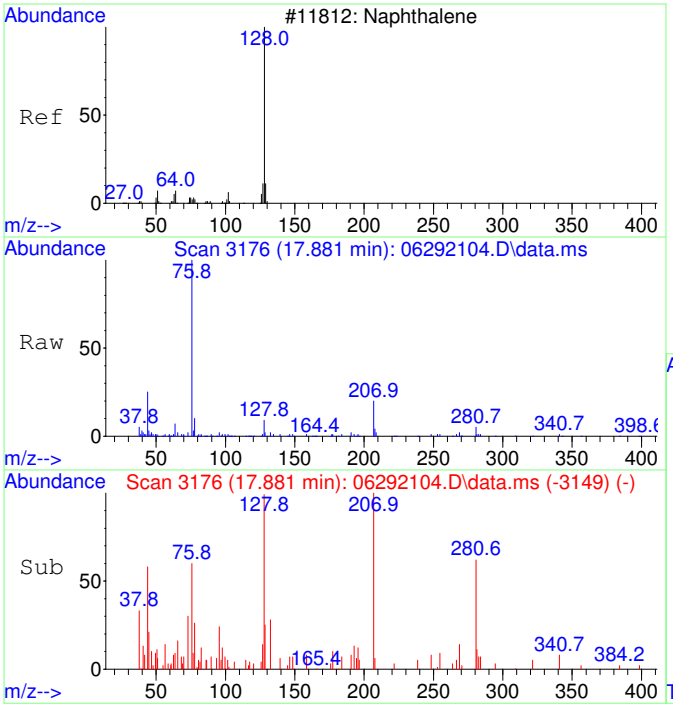


#47
1,2,4-Trimethylbenzene SCAN
Concen: 67.77 ug/L
RT: 15.872 min Scan# 2714
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2227

Ion	Ratio	Lower	Upper
105	100		
120	42.0	15.6	75.6
119	11.9	0.0	38.2
77	46.9	0.0	44.0#

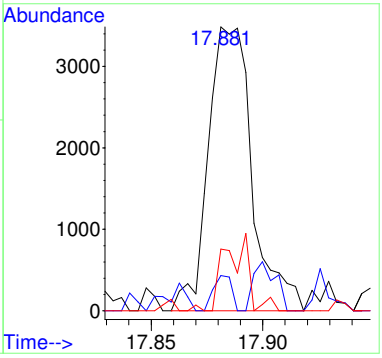




#48
Naphthalene SCAN
Concen: 79.69 ug/L
RT: 17.881 min Scan# 3176
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:128 Resp: 4775

Ion	Ratio	Lower	Upper
128	100		
127	5.1	0.0	41.1
129	0.0	0.0	39.5



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292104.D
Acq On : 29 Jun 2021 9:46
InstName : AG5975C
Operator : TD
Sample : S21F073-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:07:25 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

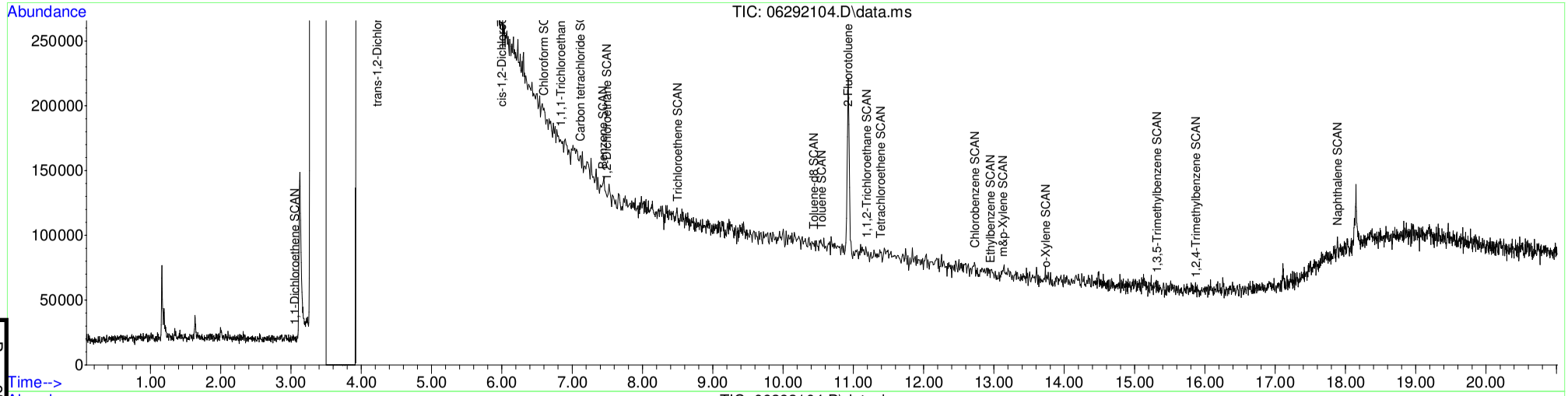
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.927	109	191233	5000.00 ug/L	# 0.00
System Monitoring Compounds					
12) Toluene-d8	10.434	98	1682	51.35 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.03%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.053	61	388	46.58 ug/L #	98
3] trans-1,2-Dichloroethene	4.221	61	340	47.43 ug/L #	90
4] 1,1-Dichloroethane	4.970	63	464	47.20 ug/L #	12
5] cis-1,2-Dichloroethene	5.999	61	459	48.73 ug/L #	95
6] Chloroform	6.564	83	605	54.57 ug/L #	94
7] 1,1,1-Trichloroethane	6.832	97	526	50.99 ug/L #	95
8] Carbon tetrachloride	7.099	117	454	50.52 ug/L #	89
9] Benzene	7.428	78	3271	105.01 ug/L #	49
10] 1,2-Dichloroethane	7.476	62	460	53.69 ug/L #	1
11] Trichloroethene	8.514	130	408	49.19 ug/L	93
13] Toluene	10.528	91	2423	56.83 ug/L	98
14] 1,1,2-Trichloroethane	11.189	97	462	52.09 ug/L #	98
15] Tetrachloroethene	11.389	166	559	51.25 ug/L #	98
16] Chlorobenzene	12.724	112	2829	76.62 ug/L #	92
17] 1,1,1,2-Tetrachloroethane	12.875	131	500	50.89 ug/L #	91
18] Ethylbenzene	12.931	91	2746	50.15 ug/L #	94
19] m&p-Xylene	13.122	91	4459	103.37 ug/L #	95
20] o-Xylene	13.741	91	2363	50.65 ug/L #	94
21] 1,1,2,2-Tetrachloroethane	14.838	83	986	48.50 ug/L #	98
22] 1,3,5-Trimethylbenzene	15.307	105	2875	52.47 ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	3211	56.26 ug/L #	99
24] Naphthalene	17.883	128	8783	82.39 ug/L #	99
25) 2-Fluorotoluene SCAN	10.926	109	108639	4615.50 ug/L	97
26) 1,1-Dichloroethene SCAN	3.052	61	242	48.68 ug/L #	56
27) trans-1,2-Dichloroethe...	4.226	61	198	36.81 ug/L #	16
29) cis-1,2-Dichloroethene...	5.998	61	536	73.71 ug/L #	45
30) Chloroform SCAN	6.587	83	549	71.39 ug/L #	1
31) 1,1,1-Trichloroethane ...	6.842	97	397	55.25 ug/L #	51
32) Carbon tetrachloride SCAN	7.110	117	337	56.84 ug/L #	17
33) Benzene SCAN	7.438	78	6456	357.85 ug/L	95
34) 1,2-Dichloroethane SCAN	7.487	62	393	69.10 ug/L #	36
35) Trichloroethene SCAN	8.502	130	159	34.58 ug/L #	30
36) Toluene-d8 SCAN	10.432	98	2058	100.81 ug/L	81
37) Toluene SCAN	10.548	91	2323	87.92 ug/L #	33
38) 1,1,2-Trichloroethane ...	11.188	97	676	107.40 ug/L #	14
39) Tetrachloroethene SCAN	11.387	166	217	34.10 ug/L #	45
40) Chlorobenzene SCAN	12.723	112	2173	110.32 ug/L #	1
42) Ethylbenzene SCAN	12.945	91	2101	59.65 ug/L	81
43) m&p-Xylene SCAN	13.128	91	2761	52.54 ug/L #	64
44) o-Xylene SCAN	13.740	91	1562	54.04 ug/L #	66
46) 1,3,5-Trimethylbenzene...	15.316	105	2027	63.88 ug/L #	42
47) 1,2,4-Trimethylbenzene...	15.872	105	2227	67.77 ug/L #	78
48) Naphthalene SCAN	17.881	128	4775	79.69 ug/L #	80

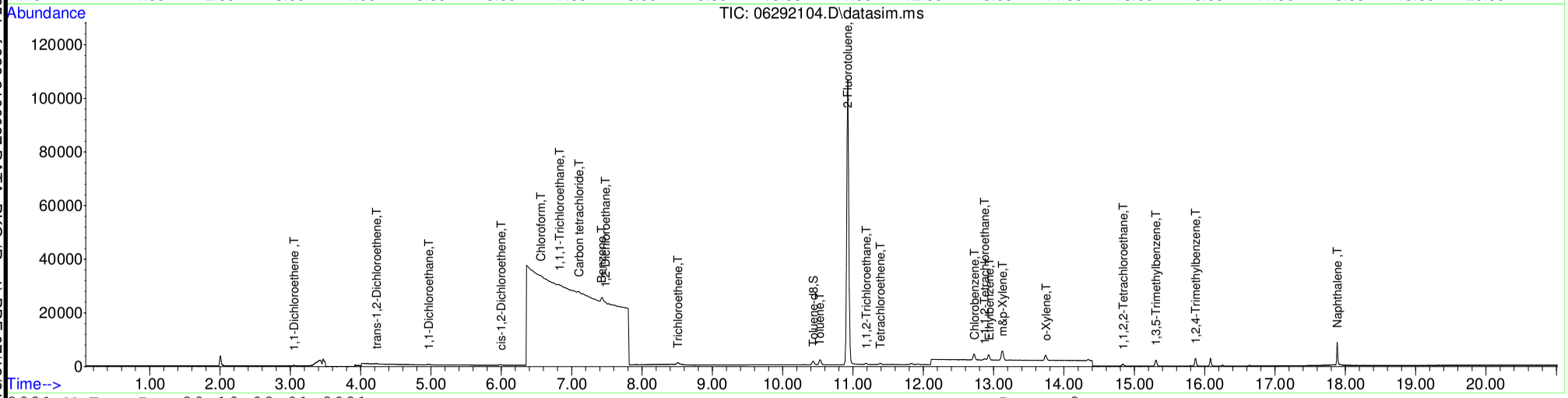
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\062921\
Data File : 06292104.D
Acq On : 29 Jun 2021 9:46
InstName : AG5975C
Operator : TD
Sample : S21F073-CRL1
Misc : 2106042 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:07:25 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\062921.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration





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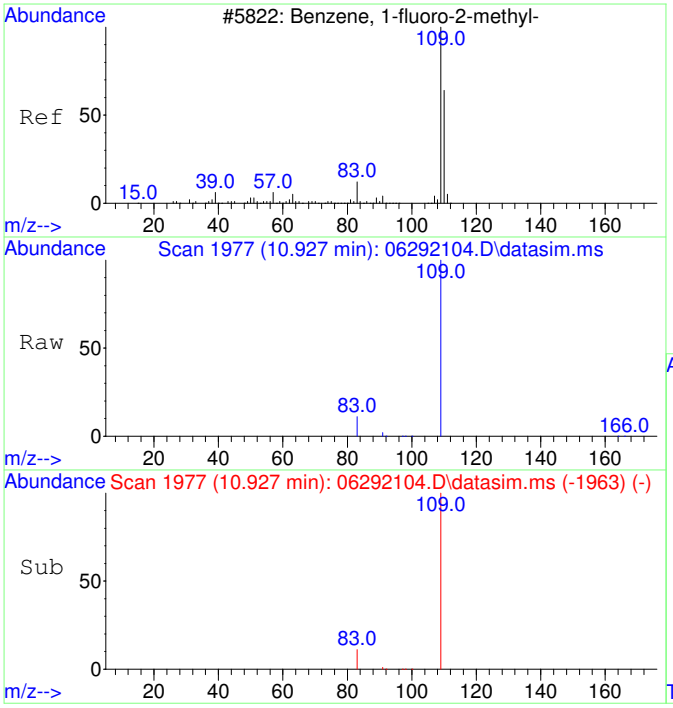
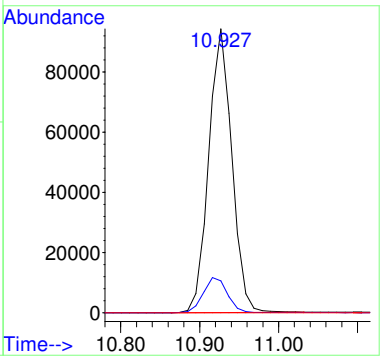
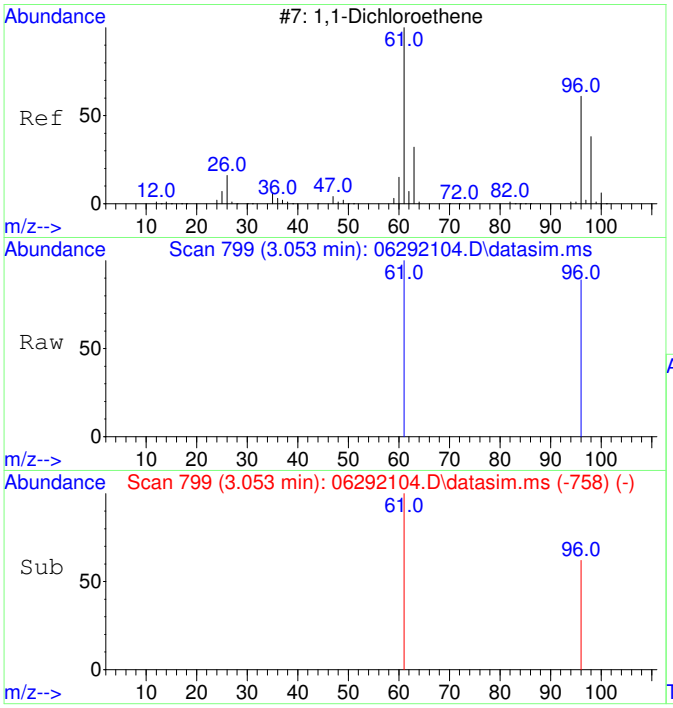


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.927 min Scan# 1977
Delta R.T. -0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:109 Resp: 191233

Ion	Ratio	Lower	Upper
109	100		
83	12.9	0.0	43.7
110	0.0	0.0	20.0

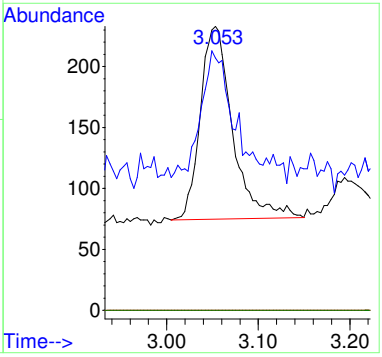


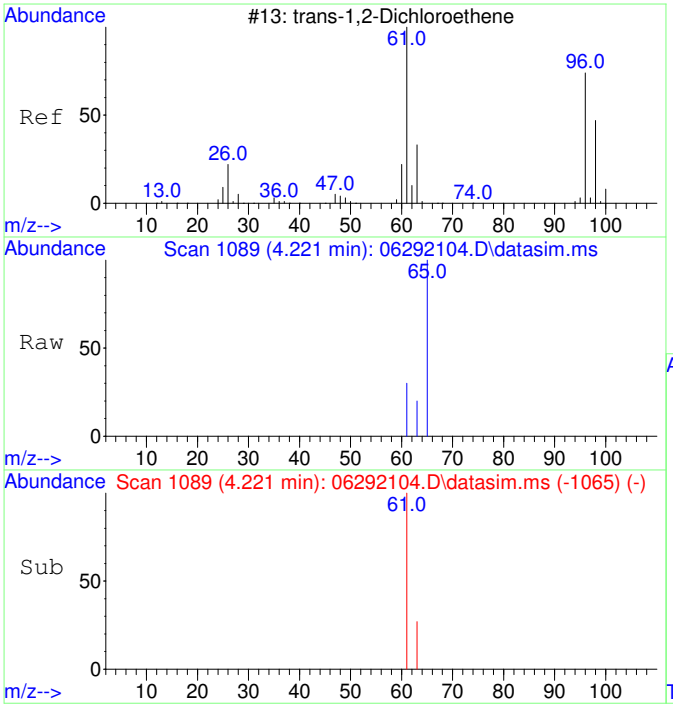


#2
1,1-Dichloroethene
Concen: 46.58 ug/L
RT: 3.053 min Scan# 799
Delta R.T. 0.004 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 388

Ion	Ratio	Lower	Upper
61	100		
96	66.2	34.9	94.9
63	0.0	0.0	20.0
98	0.0	0.0	20.0

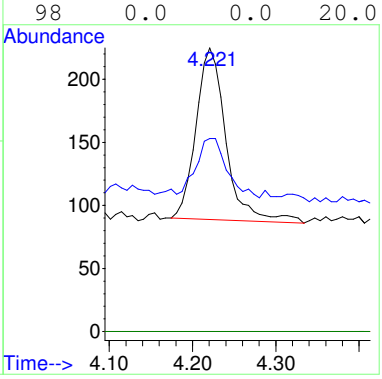


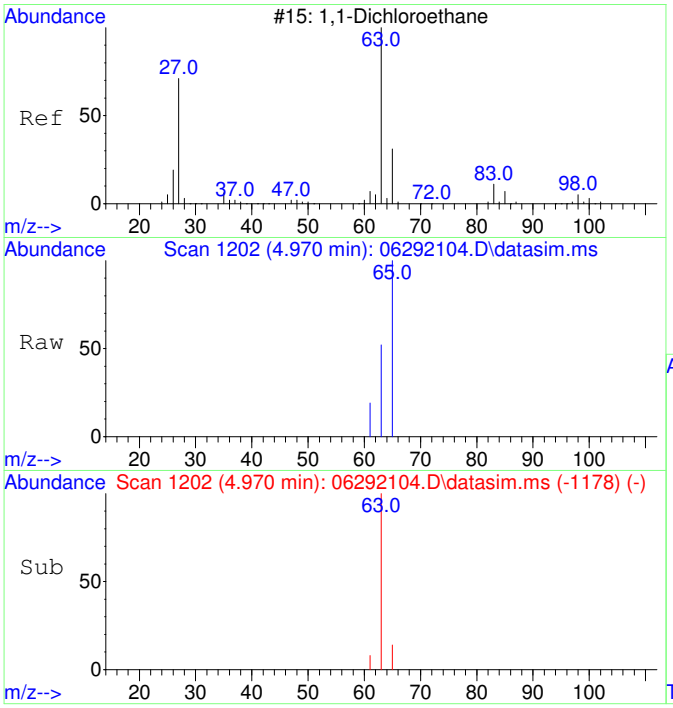


#3
trans-1,2-Dichloroethene
Concen: 47.43 ug/L
RT: 4.221 min Scan# 1089
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 340

Ion	Ratio	Lower	Upper
61	100		
63	37.9	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

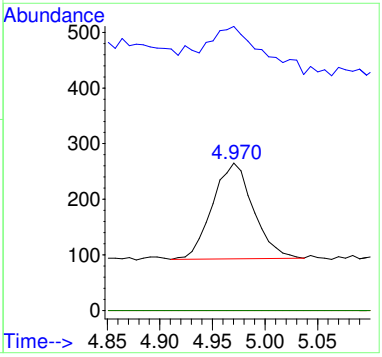


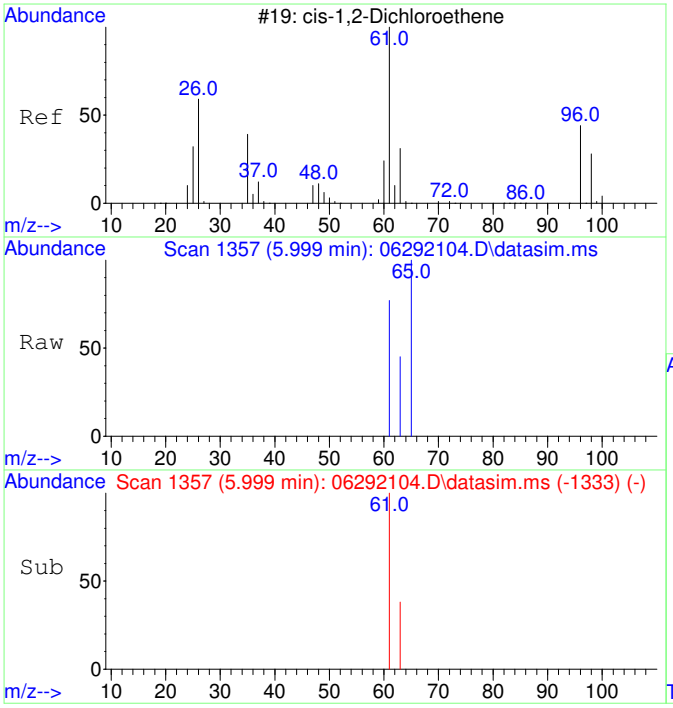


#4
1,1-Dichloroethane
Concen: 47.20 ug/L
RT: 4.970 min Scan# 1202
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 63 Resp: 464

Ion	Ratio	Lower	Upper
63	100		
65	80.0	1.3	61.3#
83	0.0	0.0	20.0
98	0.0	0.0	20.0

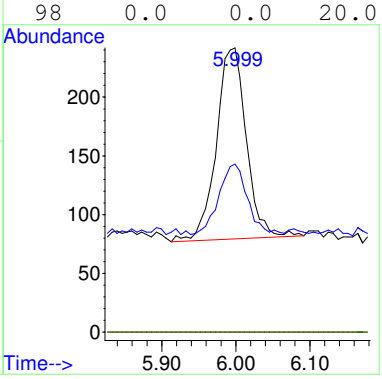


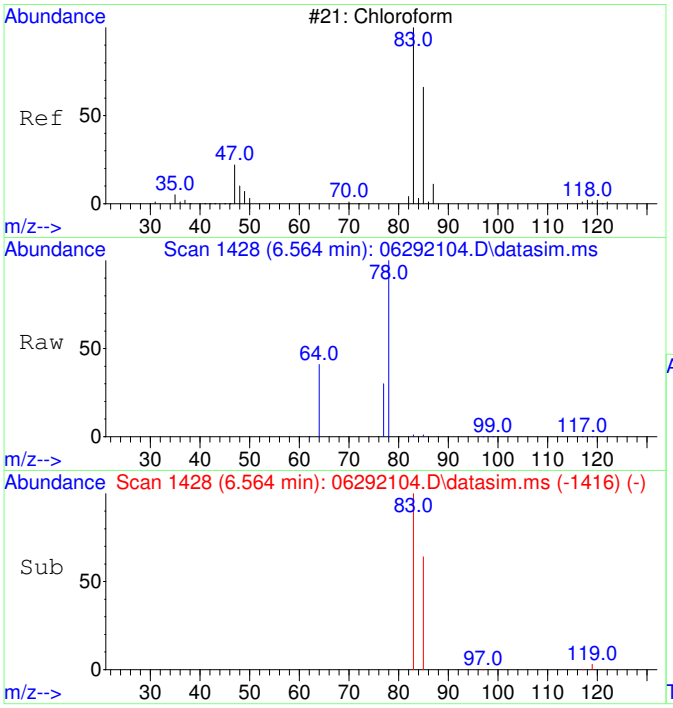


#5
cis-1,2-Dichloroethene
Concen: 48.73 ug/L
RT: 5.999 min Scan# 1357
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 459

Ion	Ratio	Lower	Upper
61	100		
63	35.3	2.5	62.5
96	0.0	0.0	20.0
98	0.0	0.0	20.0

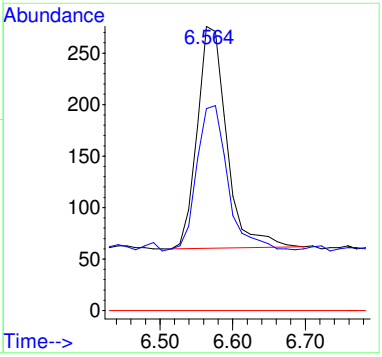


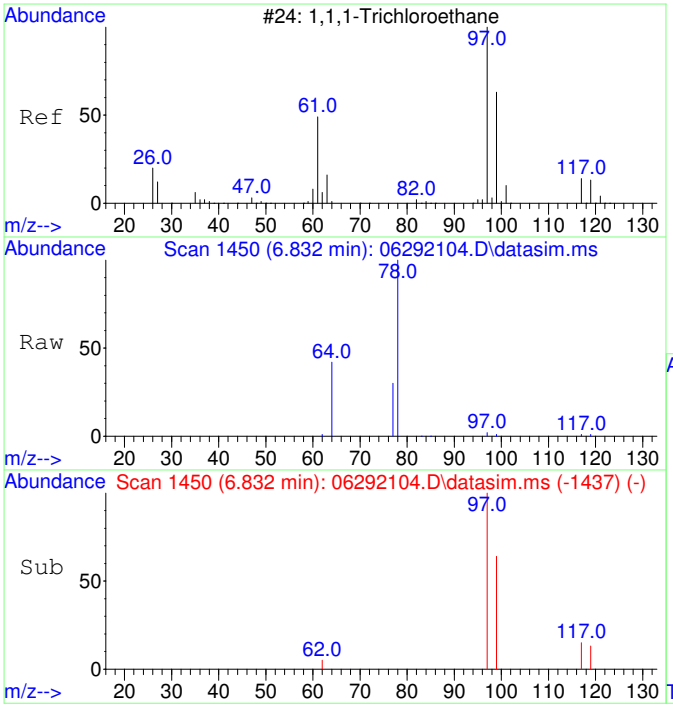


#6
Chloroform
Concen: 54.57 ug/L
RT: 6.564 min Scan# 1428
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 605

Ion	Ratio	Lower	Upper
83	100		
85	68.9	34.5	94.5
87	0.0	0.0	20.0

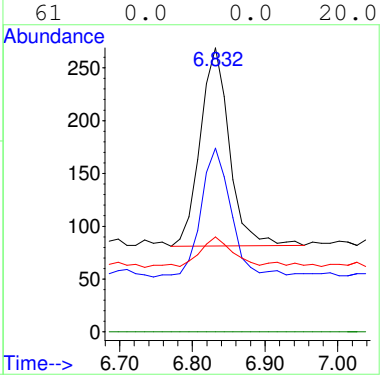


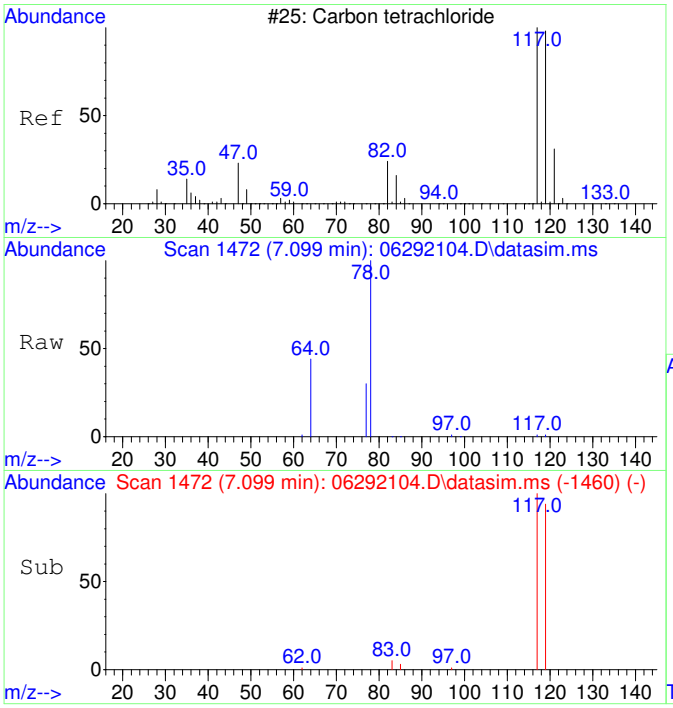


#7
1,1,1-Trichloroethane
Concen: 50.99 ug/L
RT: 6.832 min Scan# 1450
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 526

Ion	Ratio	Lower	Upper
97	100		
99	67.5	34.4	94.4
117	17.9	0.0	42.8
61	0.0	0.0	20.0

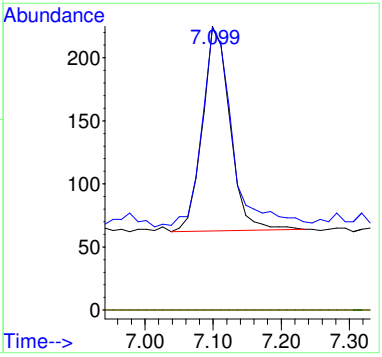


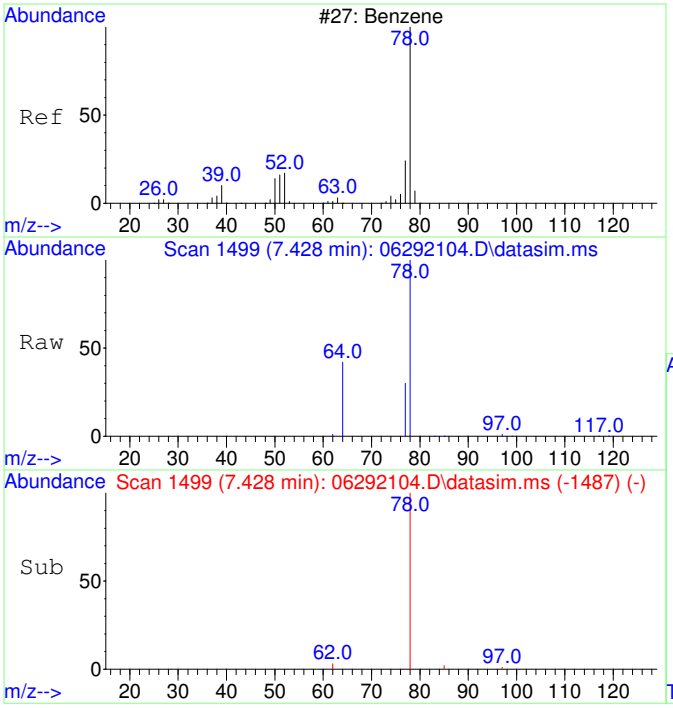


#8
Carbon tetrachloride
Concen: 50.52 ug/L
RT: 7.099 min Scan# 1472
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:117 Resp: 454

Ion	Ratio	Lower	Upper
117	100		
119	107.5	66.3	126.3
121	0.0	0.0	20.0
82	0.0	0.0	20.0

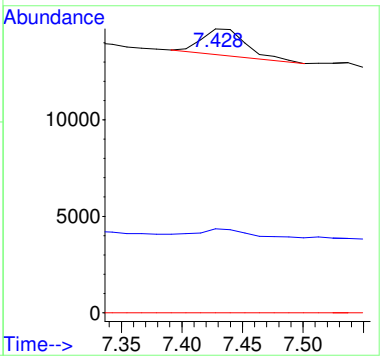


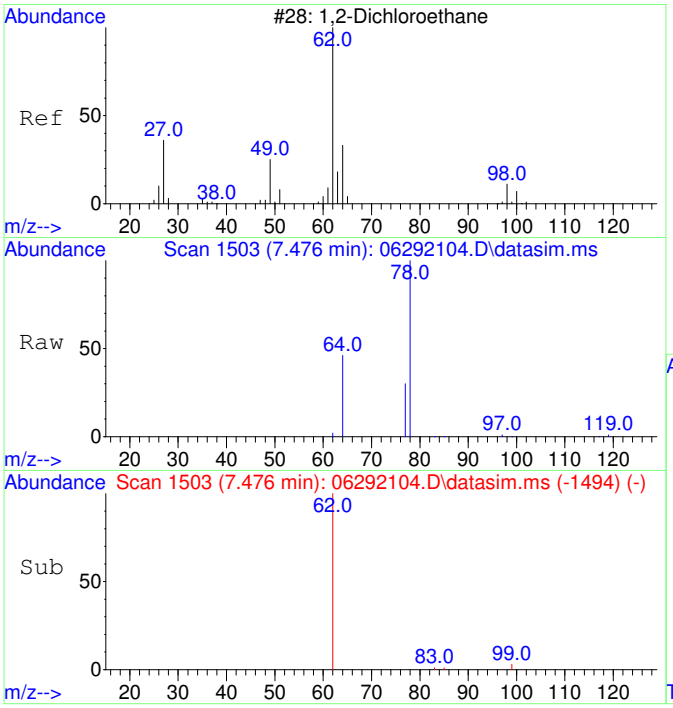


#9
Benzene
Concen: 105.01 ug/L
RT: 7.428 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 78 Resp: 3271

Ion	Ratio	Lower	Upper
78	100		
77	48.7	0.0	53.7
52	0.0	0.0	20.0

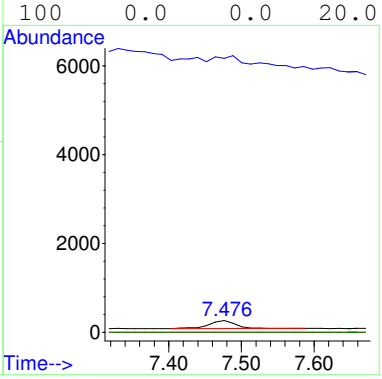


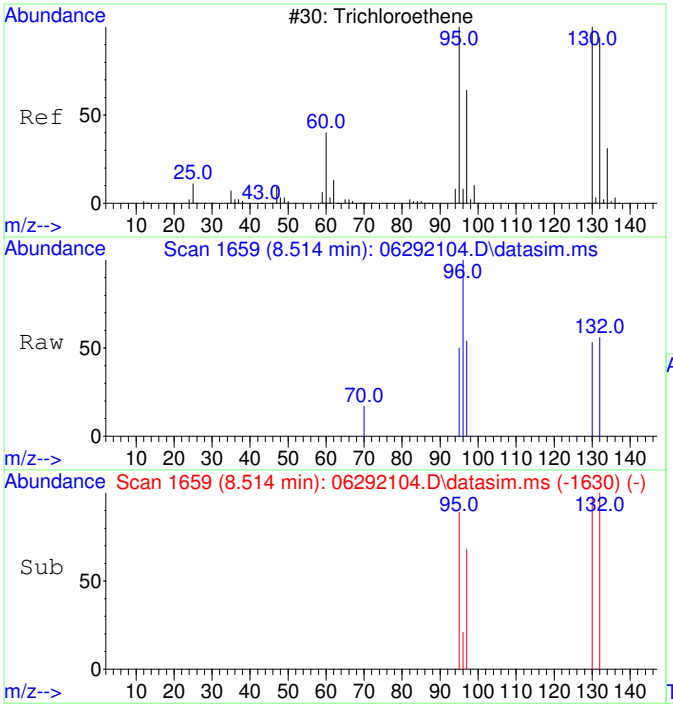


#10
1,2-Dichloroethane
Concen: 53.69 ug/L
RT: 7.476 min Scan# 1503
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 62 Resp: 460

Ion	Ratio	Lower	Upper
62	100		
64	92.8	1.7	61.7#
98	0.0	0.0	20.0
100	0.0	0.0	20.0

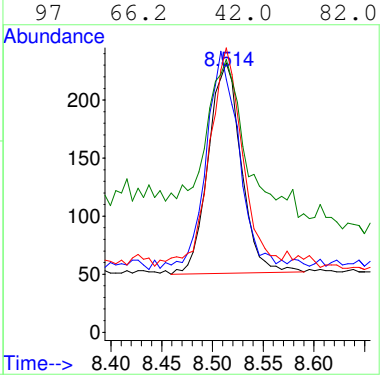


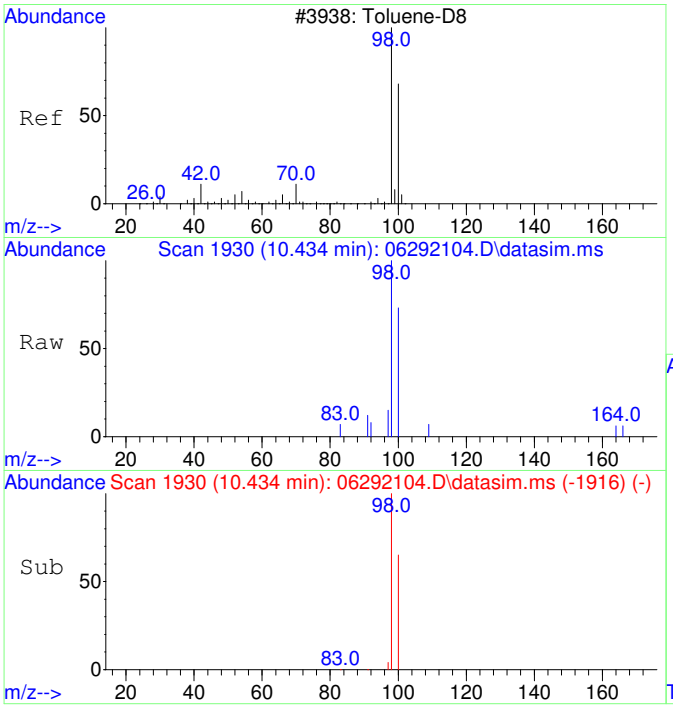


#11
Trichloroethene
Concen: 49.19 ug/L
RT: 8.514 min Scan# 1659
Delta R.T. 0.006 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:130 Resp: 408

Ion	Ratio	Lower	Upper
130	100		
95	102.5	65.8	125.8
132	103.9	75.8	115.8
97	66.2	42.0	82.0

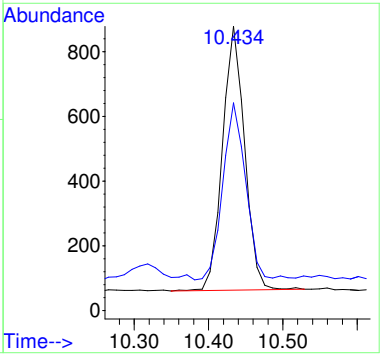


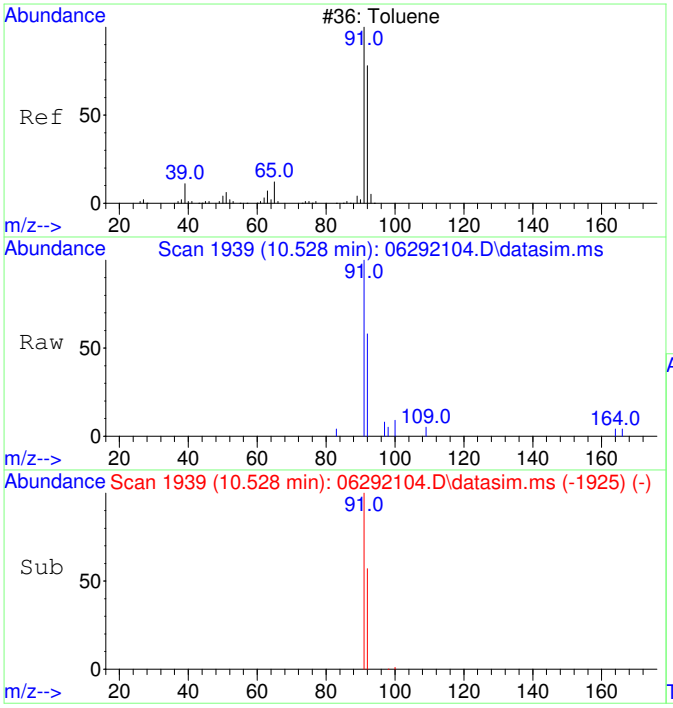


#12
Toluene-d8
Concen: 51.35 ug/L
RT: 10.434 min Scan# 1930
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 98 Resp: 1682

Ion	Ratio	Lower	Upper
98	100		
100	67.6	37.3	97.3

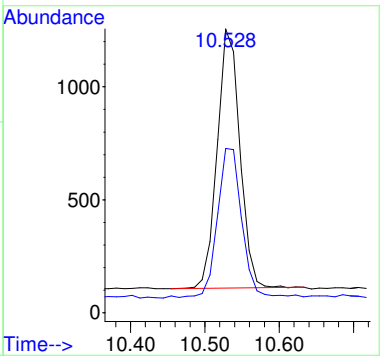


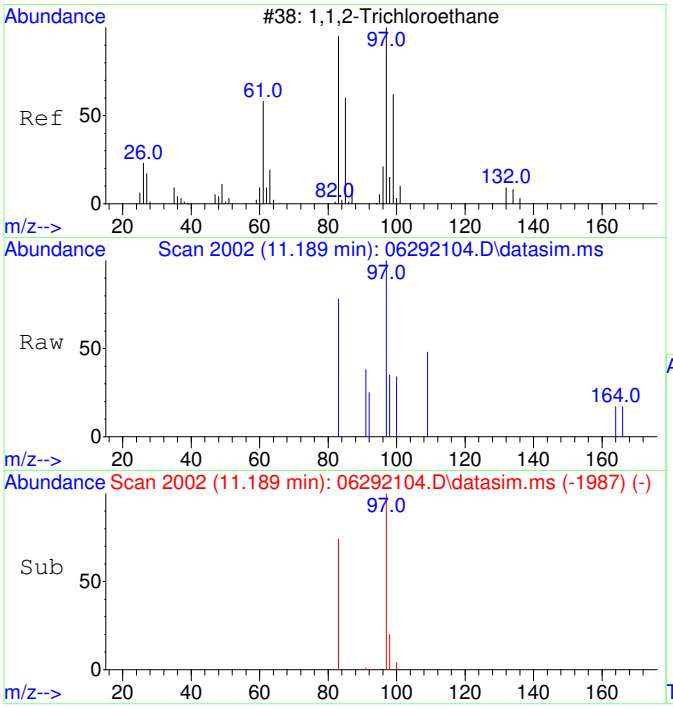


#13
Toluene
Concen: 56.83 ug/L
RT: 10.528 min Scan# 1939
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2423

Ion	Ratio	Lower	Upper
91	100		
92	61.9	30.2	90.2

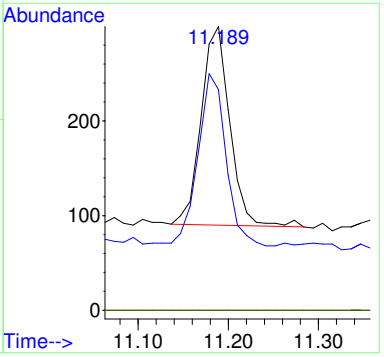


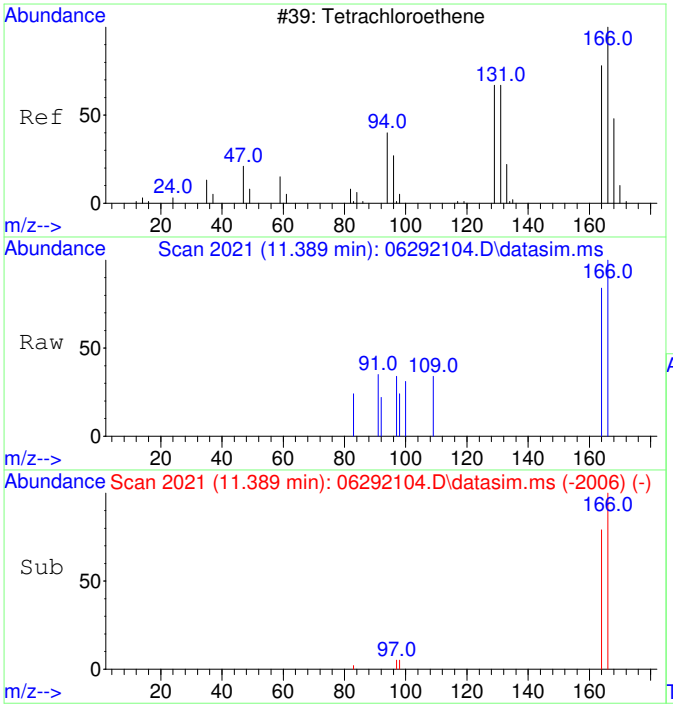


#14
1,1,2-Trichloroethane
Concen: 52.09 ug/L
RT: 11.189 min Scan# 2002
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 462

Ion	Ratio	Lower	Upper
97	100		
83	85.1	53.4	113.4
61	0.0	0.0	20.0
85	0.0	0.0	20.0

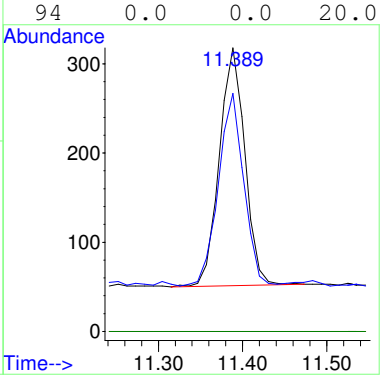


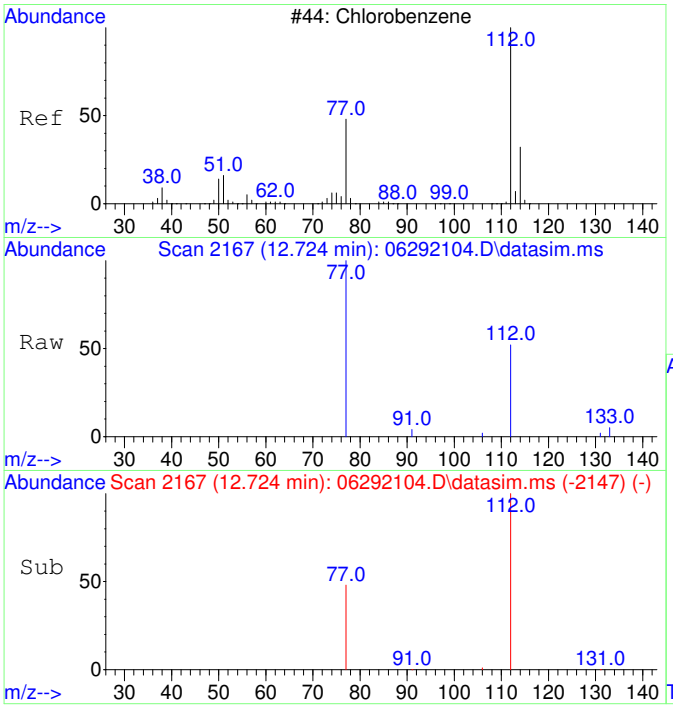


#15
Tetrachloroethene
Concen: 51.25 ug/L
RT: 11.389 min Scan# 2021
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:166 Resp: 559

Ion	Ratio	Lower	Upper
166	100		
164	79.8	47.9	107.9
131	0.0	0.0	20.0
94	0.0	0.0	20.0

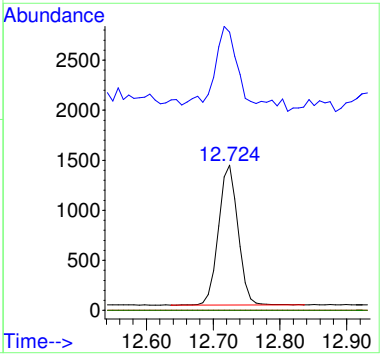


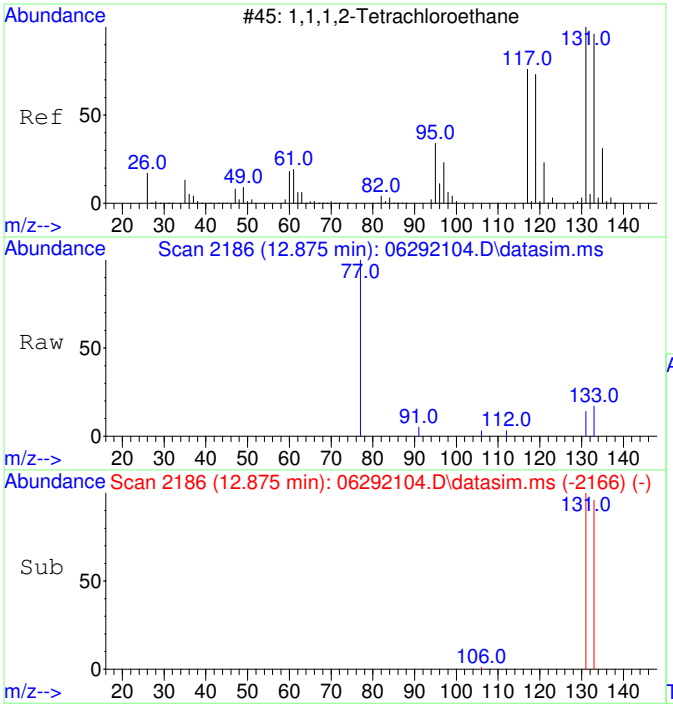


#16
Chlorobenzene
Concen: 76.62 ug/L
RT: 12.724 min Scan# 2167
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:112 Resp: 2829

Ion	Ratio	Lower	Upper
112	100		
77	62.9	27.0	87.0
114	0.0	0.0	20.0
51	0.0	0.0	20.0

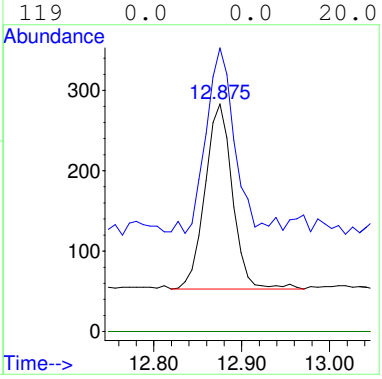


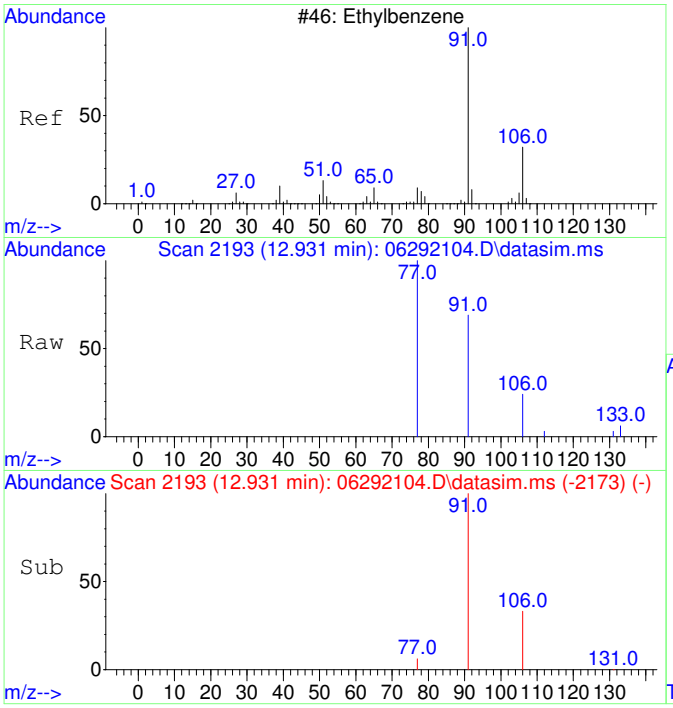


#17
1,1,1,2-Tetrachloroethane
Concen: 50.89 ug/L
RT: 12.875 min Scan# 2186
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:131 Resp: 500

Ion	Ratio	Lower	Upper
131	100		
133	103.8	65.4	125.4
117	0.0	0.0	20.0
119	0.0	0.0	20.0

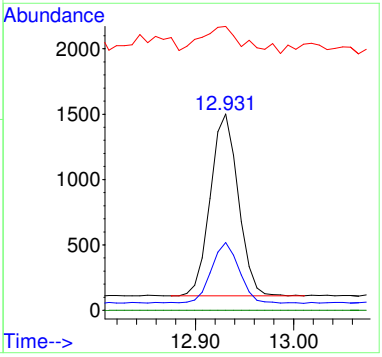


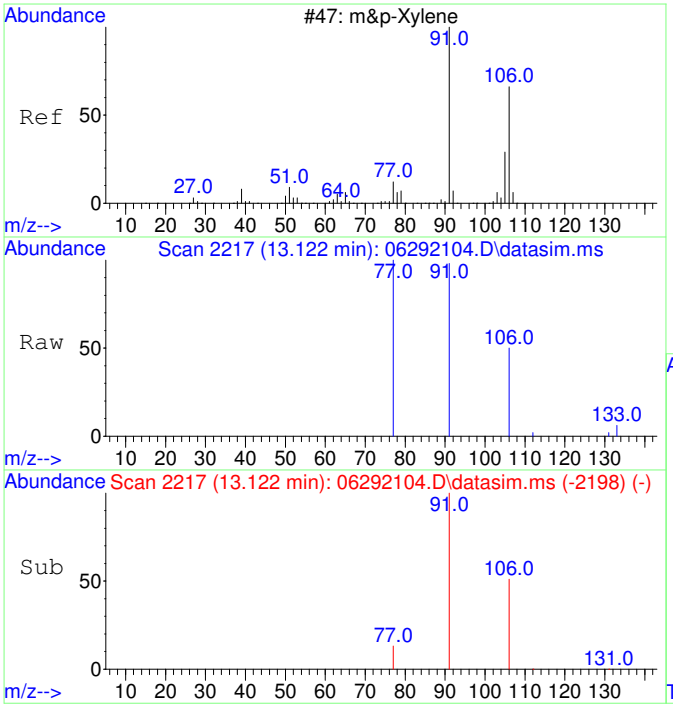


#18
Ethylbenzene
Concen: 50.15 ug/L
RT: 12.931 min Scan# 2193
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2746

Ion	Ratio	Lower	Upper
91	100		
106	33.5	2.8	62.8
77	16.6	0.0	38.2
105	0.0	0.0	20.0

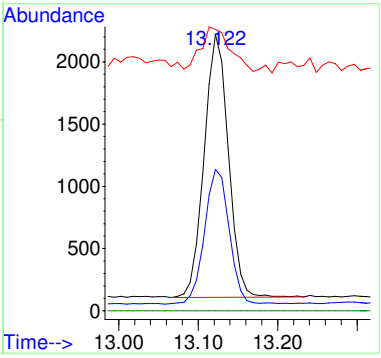


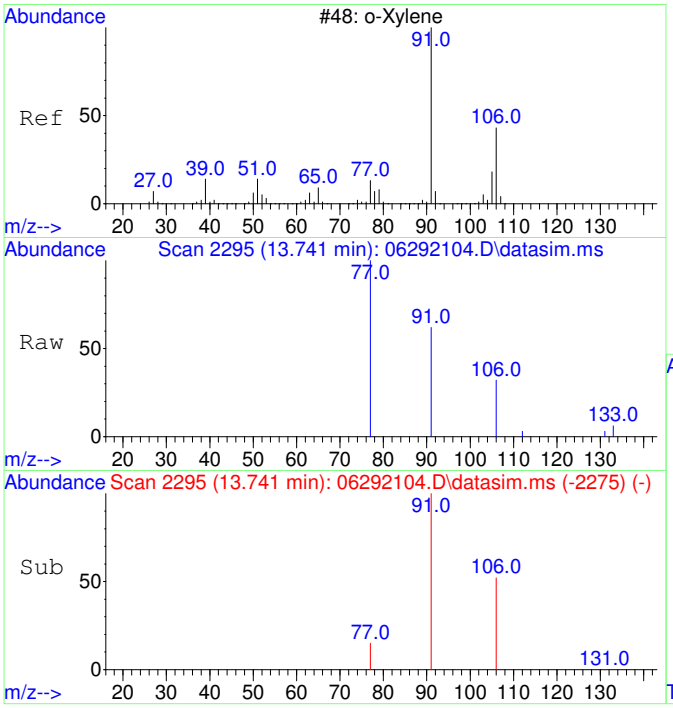


#19
m&p-Xylene
Concen: 103.37 ug/L
RT: 13.122 min Scan# 2217
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 4459

Ion	Ratio	Lower	Upper
91	100		
106	51.9	21.4	81.4
77	20.5	0.0	42.7
105	0.0	0.0	20.0

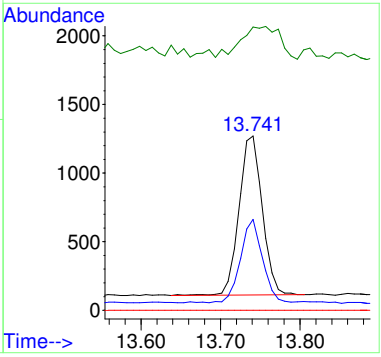


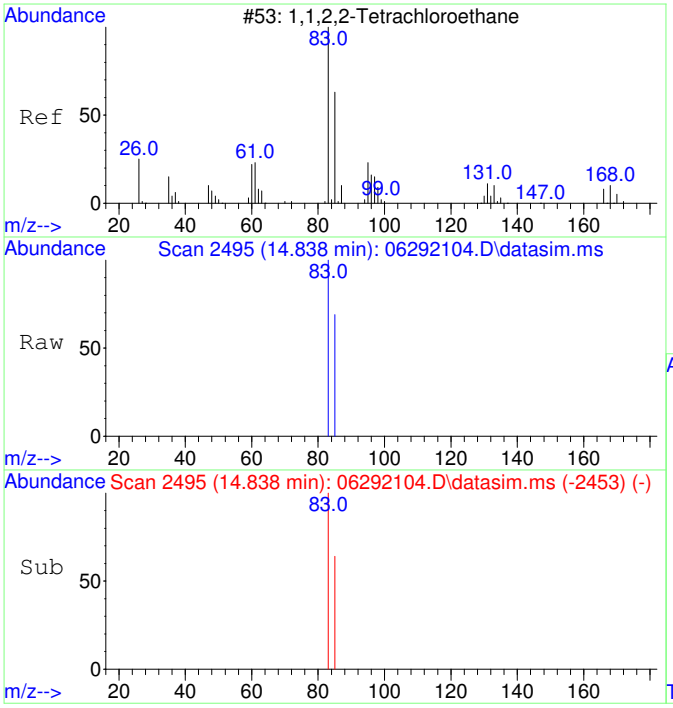


#20
o-Xylene
Concen: 50.65 ug/L
RT: 13.741 min Scan# 2295
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2363

Ion	Ratio	Lower	Upper
91	100		
106	48.9	18.7	78.7
105	0.0	0.0	30.0
77	35.2	7.3	47.3

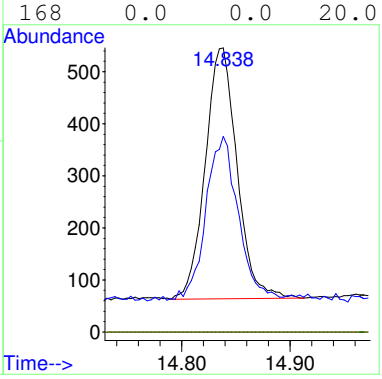


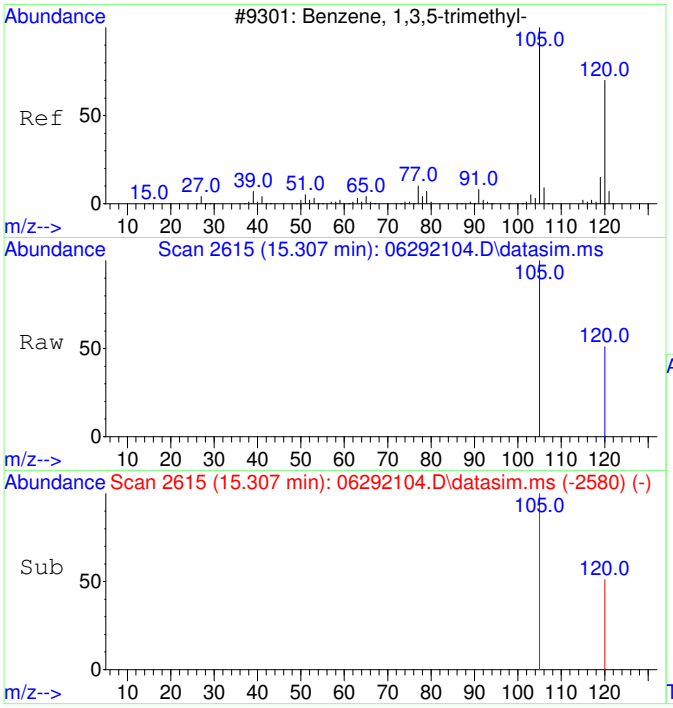


#21
1,1,2,2-Tetrachloroethane
Concen: 48.50 ug/L
RT: 14.838 min Scan# 2495
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 986

Ion	Ratio	Lower	Upper
83	100		
85	66.4	34.6	94.6
131	0.0	0.0	20.0
168	0.0	0.0	20.0

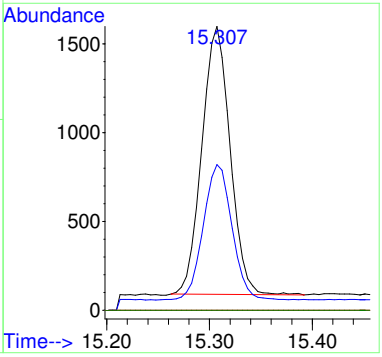


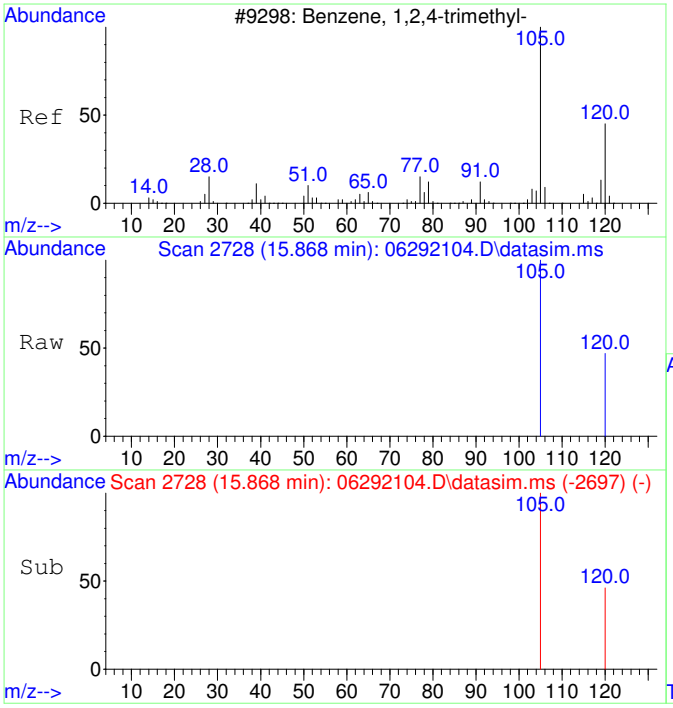


#22
1,3,5-Trimethylbenzene
Concen: 52.47 ug/L
RT: 15.307 min Scan# 2615
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2875

Ion	Ratio	Lower	Upper
105	100		
120	50.5	20.8	80.8
77	0.0	0.0	20.0
91	0.0	0.0	20.0

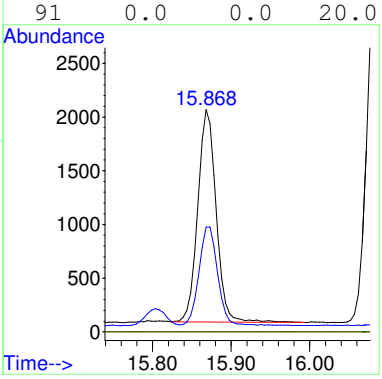


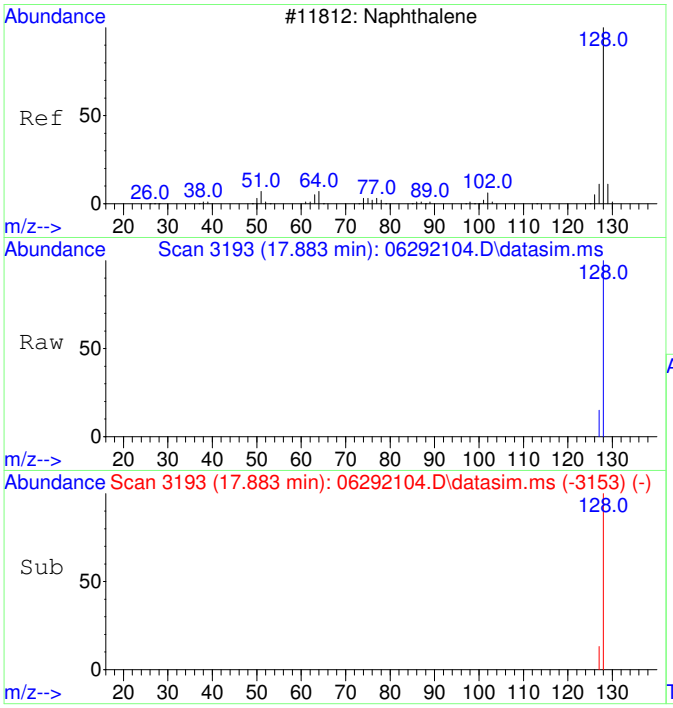


#23
1,2,4-Trimethylbenzene
Concen: 56.26 ug/L
RT: 15.868 min Scan# 2728
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 3211

Ion	Ratio	Lower	Upper
105	100		
120	46.6	16.0	76.0
77	0.0	0.0	20.0
91	0.0	0.0	20.0

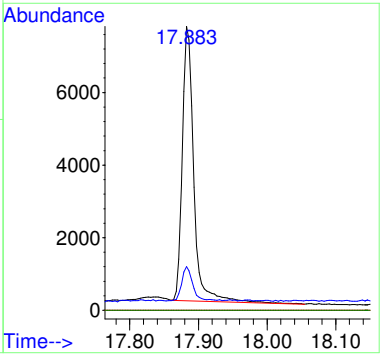


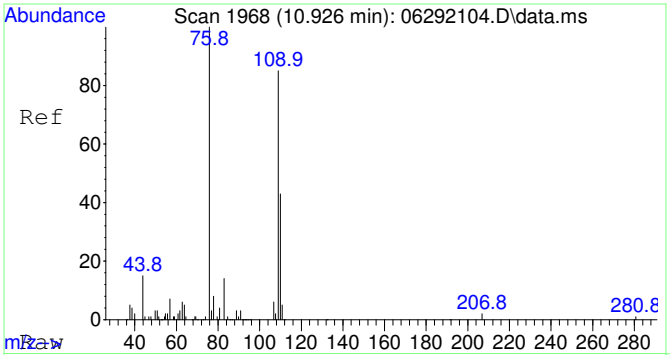


#24
Naphthalene
Concen: 82.39 ug/L
RT: 17.883 min Scan# 3193
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:128 Resp: 8783

Ion	Ratio	Lower	Upper
128	100		
127	12.0	0.0	42.4
102	0.0	0.0	30.0
64	0.0	0.0	20.0

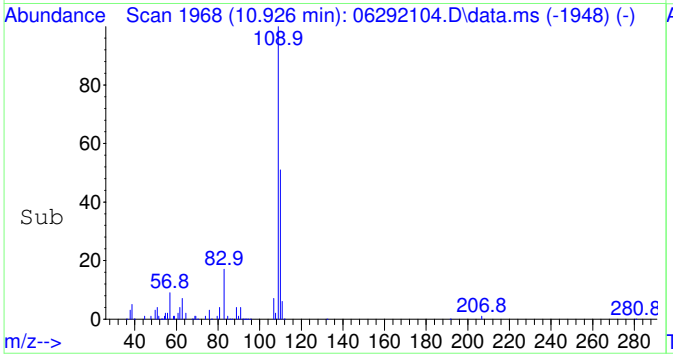


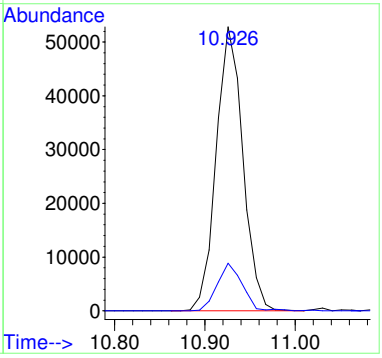


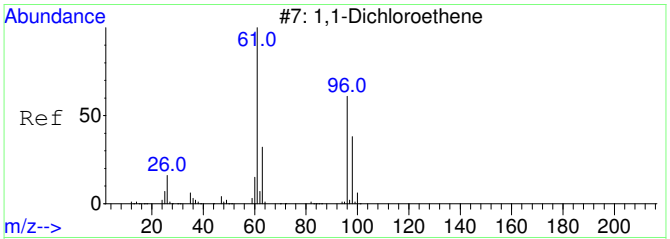
#25
2-Fluorotoluene SCAN
Concen: 4615.50 ug/L
RT: 10.926 min Scan# 1968
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:109 Resp: 108639

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	44.5



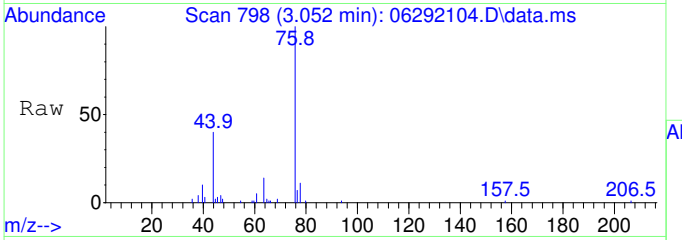


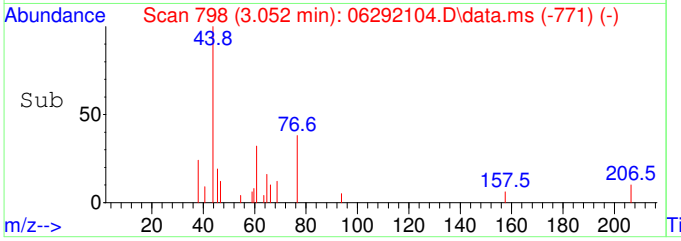


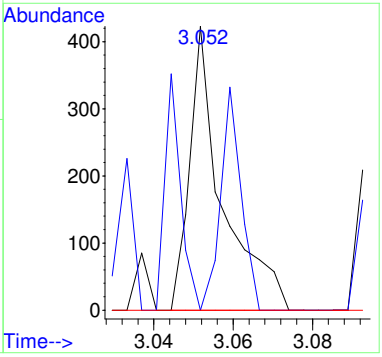
#26
1,1-Dichloroethene SCAN
Concen: 48.68 ug/L
RT: 3.052 min Scan# 798
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

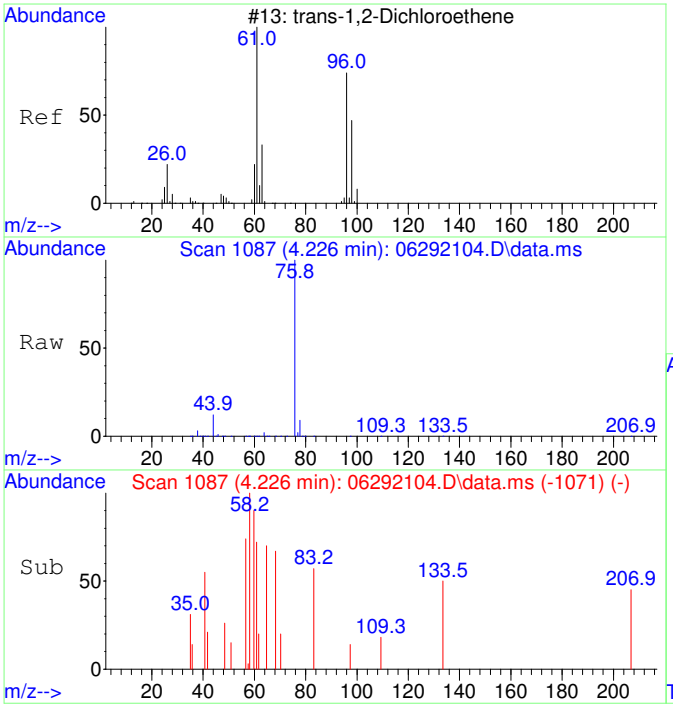
Tgt Ion: 61 Resp: 242

Ion	Ratio	Lower	Upper
61	100		
96	40.5	33.0	93.0
98	0.0	12.5	72.5#





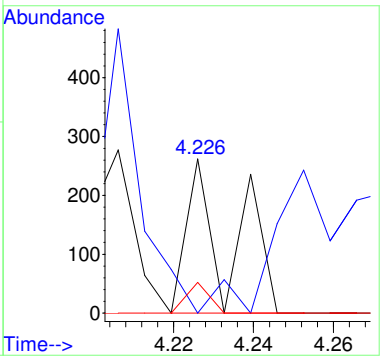


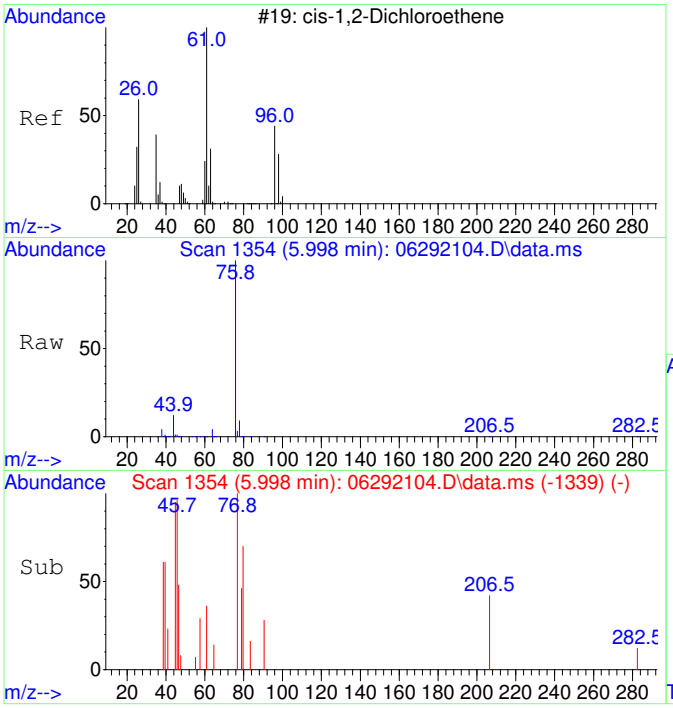


#27
trans-1,2-Dichloroethene SCAN
Concen: 36.81 ug/L
RT: 4.226 min Scan# 1087
Delta R.T. 0.007 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 198

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	109.3#
98	0.0	24.0	84.0#

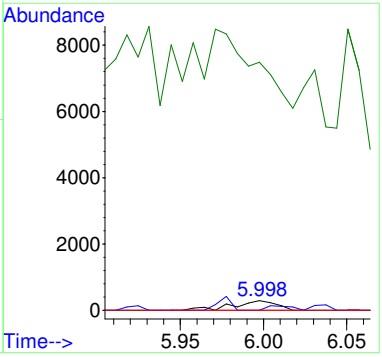


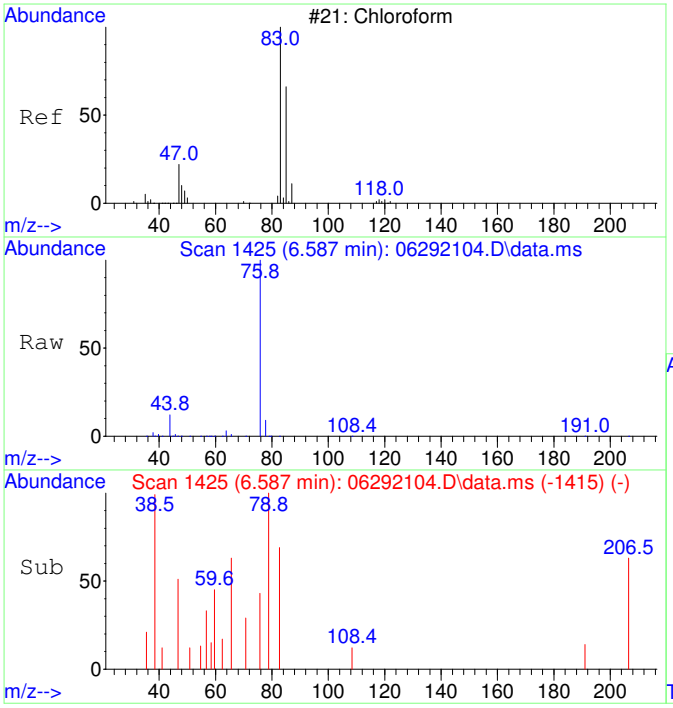


#29
cis-1,2-Dichloroethene SCAN
Concen: 73.71 ug/L
RT: 5.998 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 61 Resp: 536

Ion	Ratio	Lower	Upper
61	100		
96	26.9	36.9	96.9#
98	0.0	12.1	72.1#
64	0.0	0.0	32.6

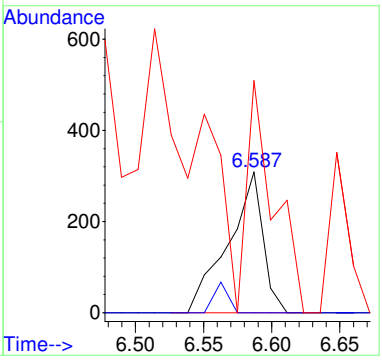


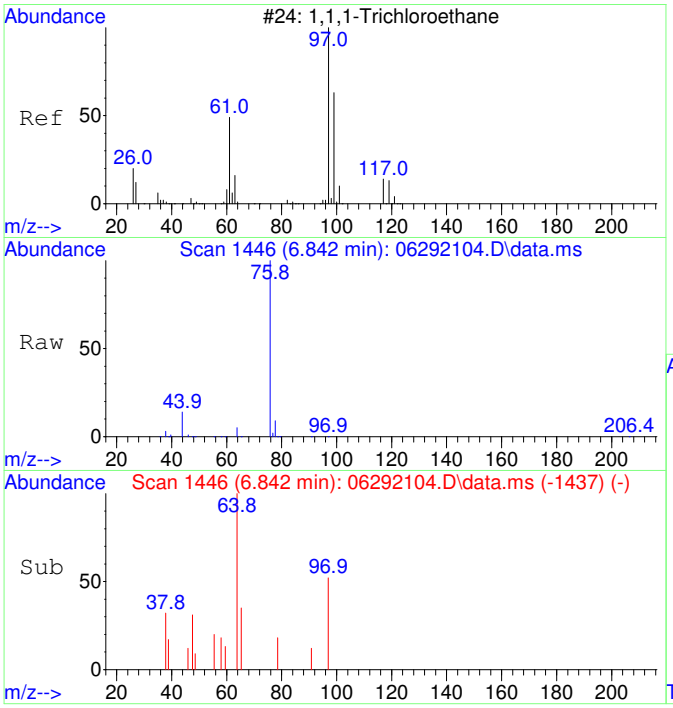


#30
Chloroform SCAN
Concen: 71.39 ug/L
RT: 6.587 min Scan# 1425
Delta R.T. 0.024 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 83 Resp: 549

Ion	Ratio	Lower	Upper
83	100		
85	0.0	27.1	87.1#
47	127.5	7.5	67.5#

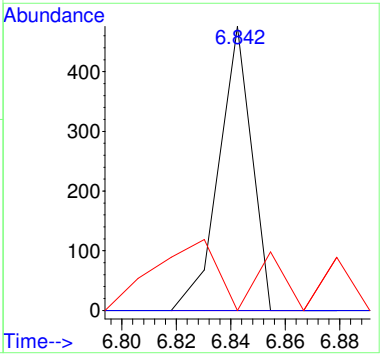


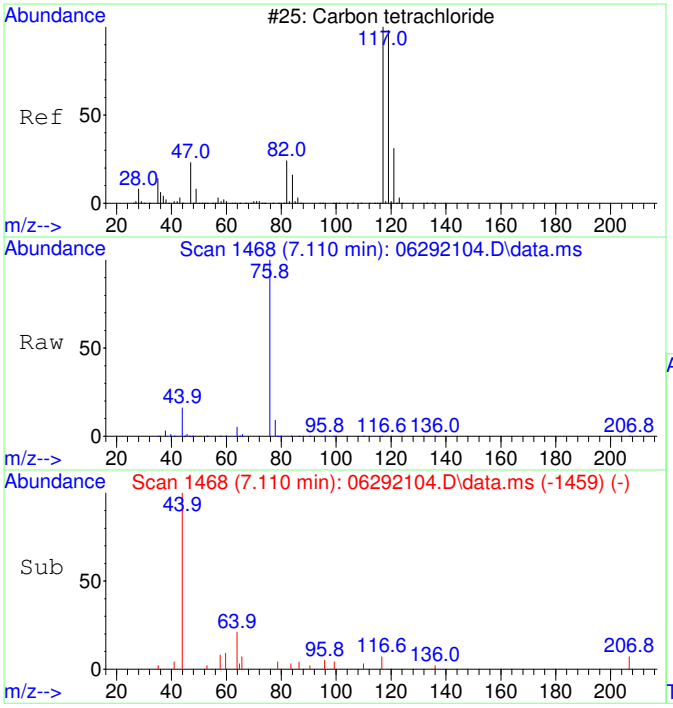


#31
1,1,1-Trichloroethane SCAN
Concen: 55.25 ug/L
RT: 6.842 min Scan# 1446
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 397

Ion	Ratio	Lower	Upper
97	100		
99	0.0	26.5	86.5#
61	48.1	11.4	71.4

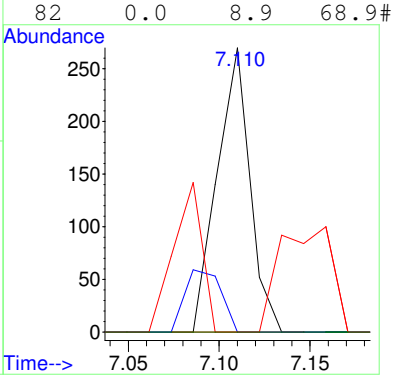


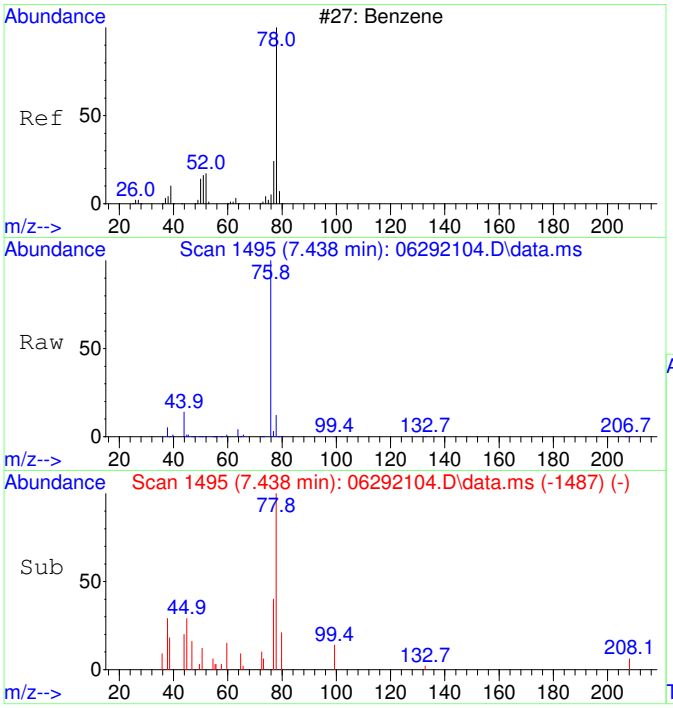


#32
Carbon tetrachloride SCAN
Concen: 56.84 ug/L
RT: 7.110 min Scan# 1468
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:117 Resp: 337

Ion	Ratio	Lower	Upper
117	100		
119	0.0	68.0	128.0#
121	0.0	0.0	59.0
82	0.0	8.9	68.9#

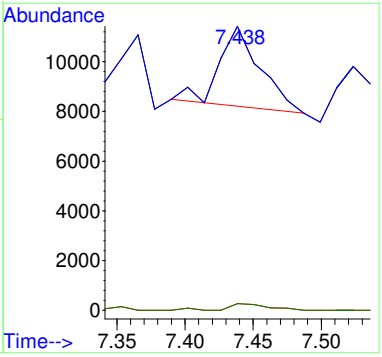


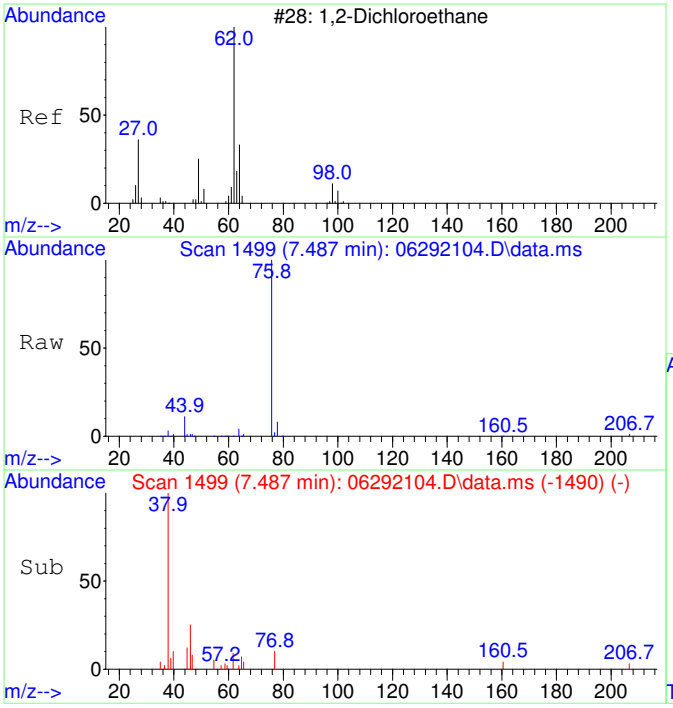


#33
Benzene SCAN
Concen: 357.85 ug/L
RT: 7.438 min Scan# 1495
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 78 Resp: 6456

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.7	0.0	46.7
51	8.7	0.0	46.7

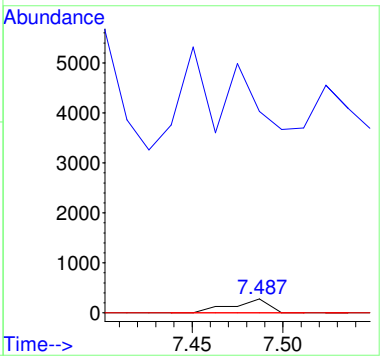


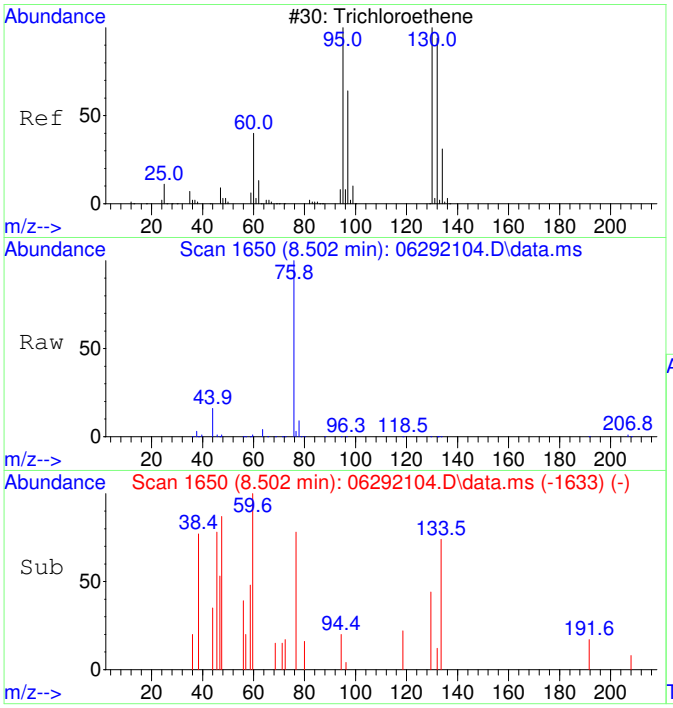


#34
1,2-Dichloroethane SCAN
Concen: 69.10 ug/L
RT: 7.487 min Scan# 1499
Delta R.T. 0.012 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 62 Resp: 393

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.3	73.3#
49	0.0	4.1	64.1#

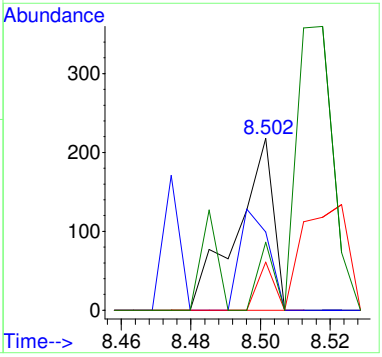


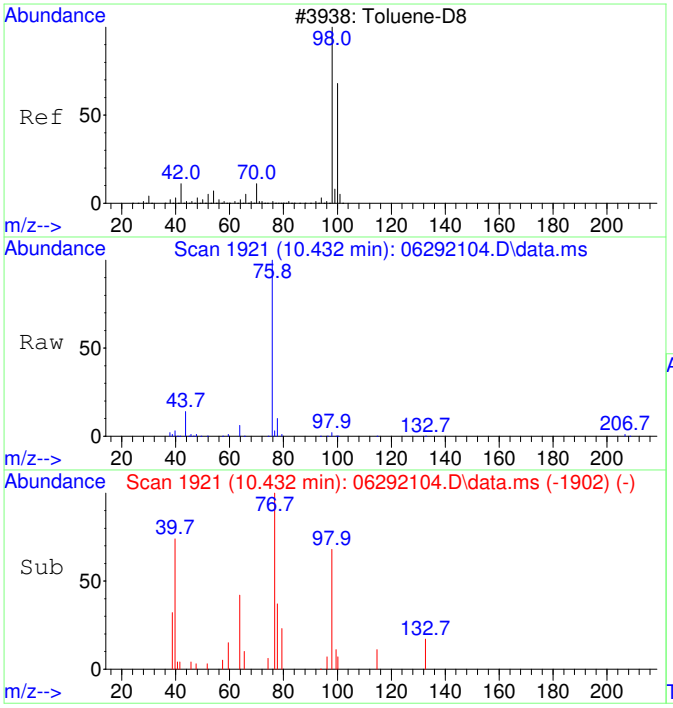


#35
Trichloroethene SCAN
Concen: 34.58 ug/L
RT: 8.502 min Scan# 1650
Delta R.T. -0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:130 Resp: 159

Ion	Ratio	Lower	Upper
130	100		
95	46.5	60.0	120.0#
132	0.0	54.3	114.3#
97	0.0	24.6	84.6#

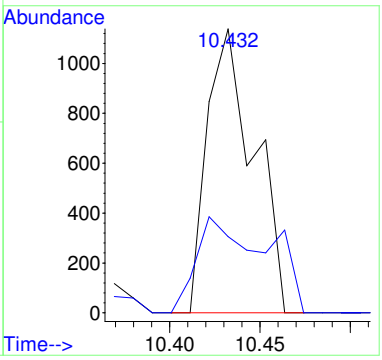


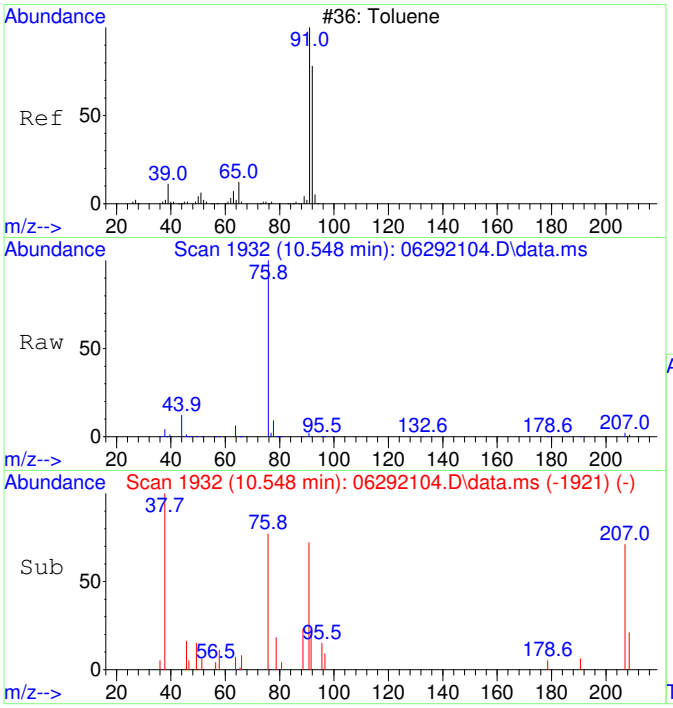


#36
Toluene-d8 SCAN
Concen: 100.81 ug/L
RT: 10.432 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 98 Resp: 2058

Ion	Ratio	Lower	Upper
98	100		
100	50.6	36.1	96.1

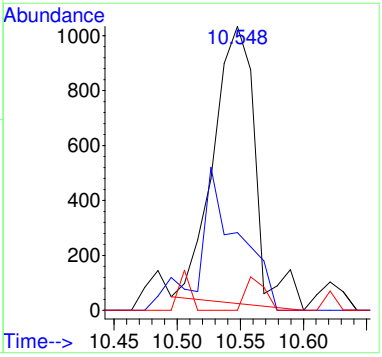


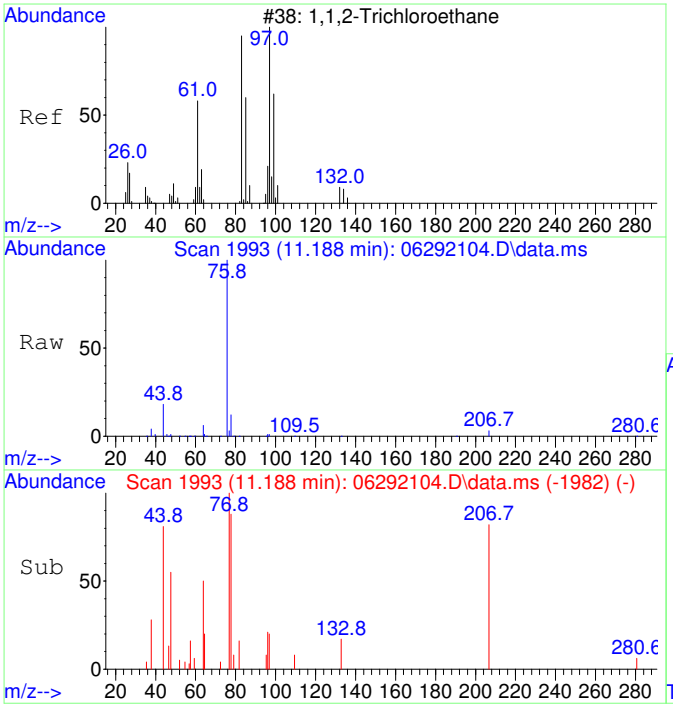


#37
Toluene SCAN
Concen: 87.92 ug/L
RT: 10.548 min Scan# 1932
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2323

Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.5	86.5#
65	5.6	0.0	40.6

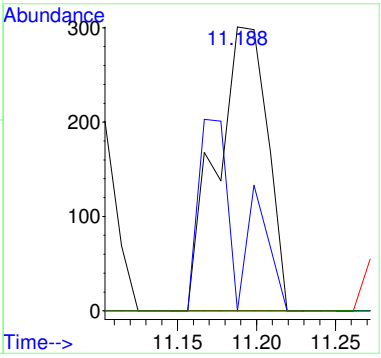


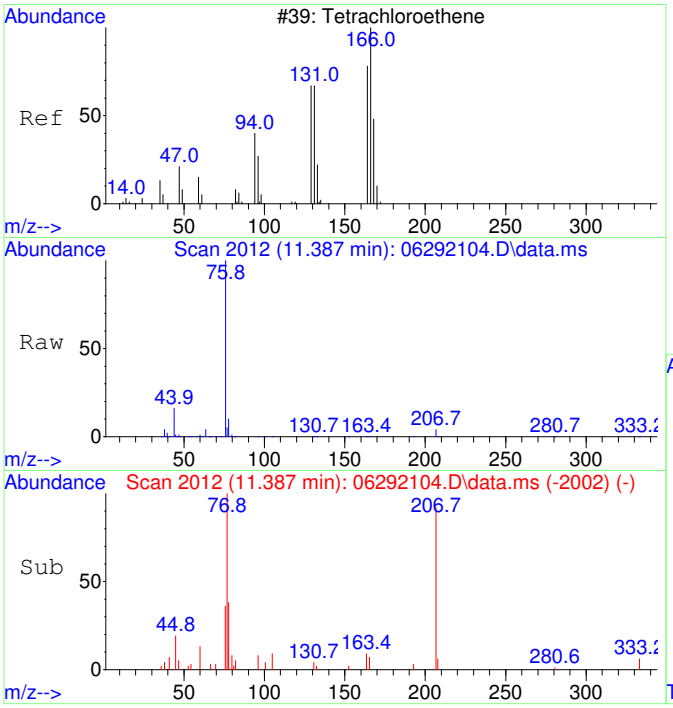


#38
1,1,2-Trichloroethane SCAN
Concen: 107.40 ug/L
RT: 11.188 min Scan# 1993
Delta R.T. 0.011 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 97 Resp: 676

Ion	Ratio	Lower	Upper
97	100		
83	0.0	52.0	112.0#
61	0.0	30.8	90.8#
99	0.0	37.5	97.5#

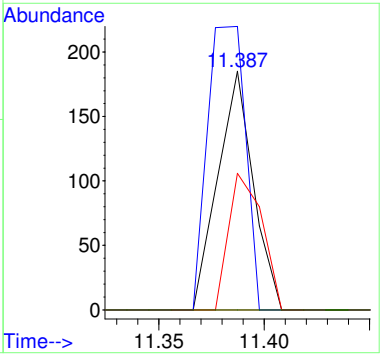


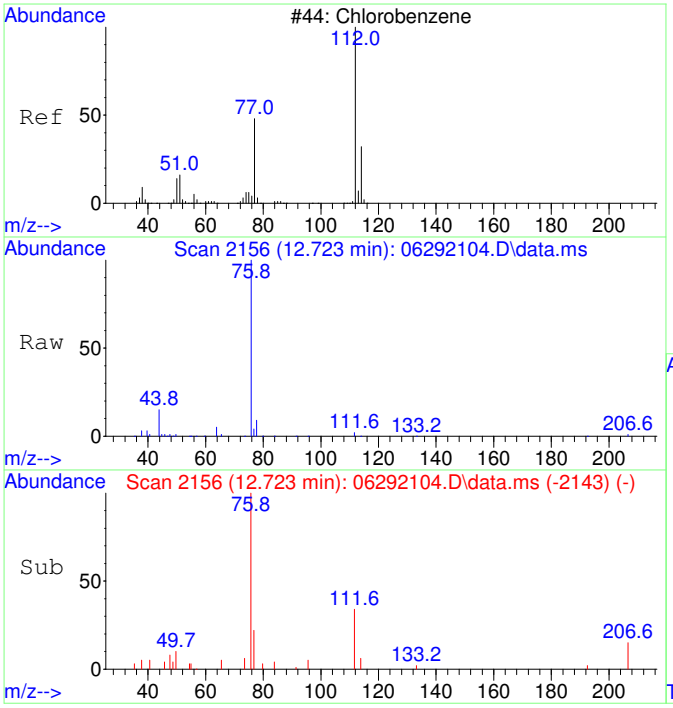


#39
Tetrachloroethene SCAN
Concen: 34.10 ug/L
RT: 11.387 min Scan# 2012
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:166 Resp: 217

Ion	Ratio	Lower	Upper
166	100		
164	127.2	53.9	113.9#
131	53.9	45.6	105.6
129	0.0	51.3	111.3#

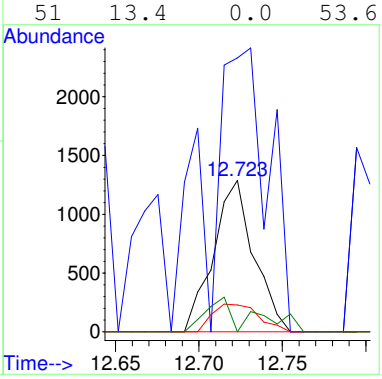


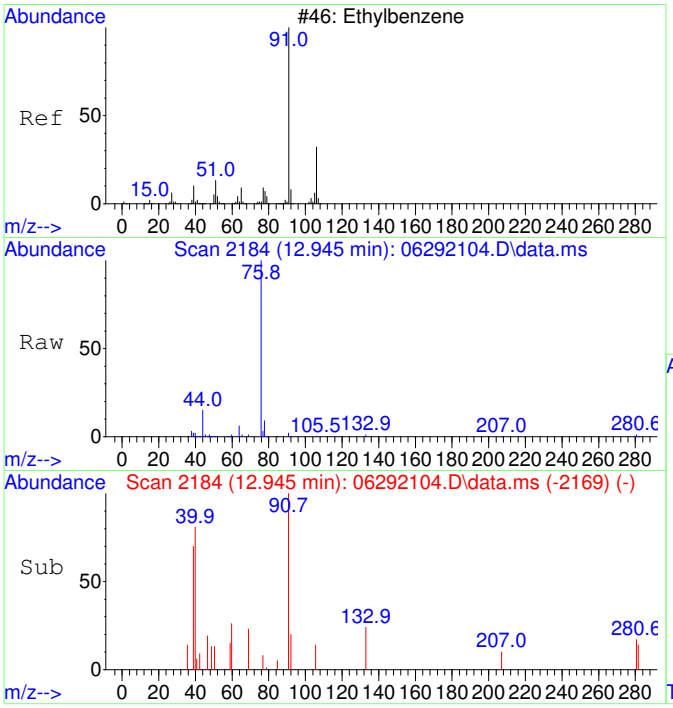


#40
Chlorobenzene SCAN
Concen: 110.32 ug/L
RT: 12.723 min Scan# 2156
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:112 Resp: 2173

Ion	Ratio	Lower	Upper
112	100		
77	214.5	48.5	108.5#
114	20.9	4.9	64.9
51	13.4	0.0	53.6

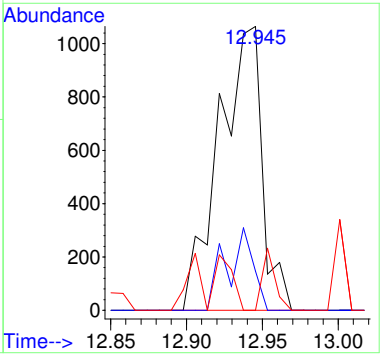


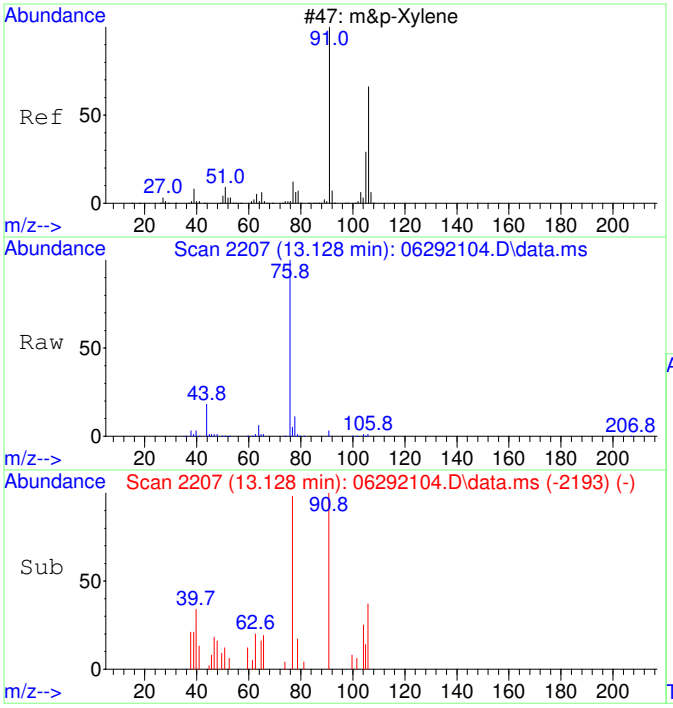


#42
Ethylbenzene SCAN
Concen: 59.65 ug/L
RT: 12.945 min Scan# 2184
Delta R.T. 0.016 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2101

Ion	Ratio	Lower	Upper
91	100		
106	18.0	0.5	60.5
51	6.4	0.0	39.6

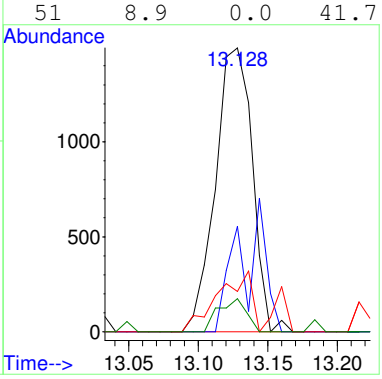


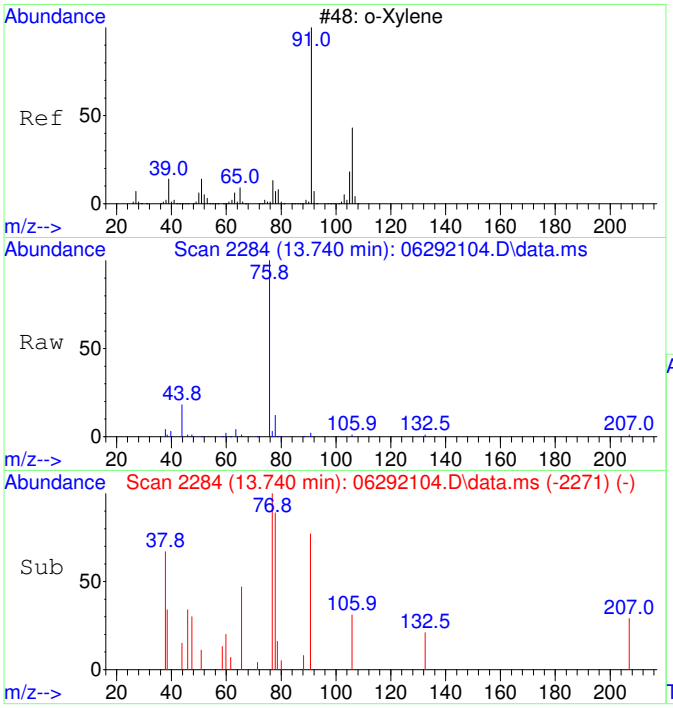


#43
m&p-Xylene SCAN
Concen: 52.54 ug/L
RT: 13.128 min Scan# 2207
Delta R.T. 0.008 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 2761

Ion	Ratio	Lower	Upper
91	100		
106	14.2	21.2	81.2#
105	15.7	0.0	51.6
51	8.9	0.0	41.7

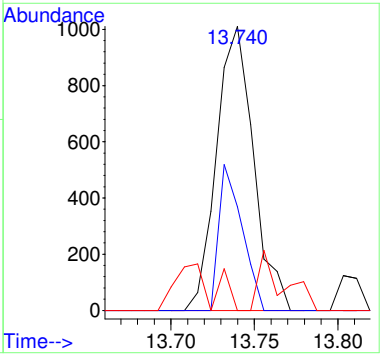


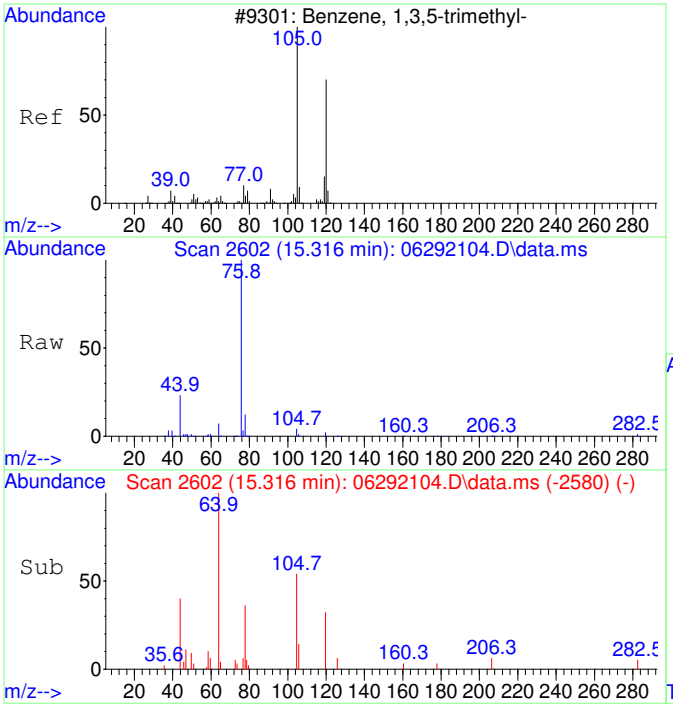


#44
o-Xylene SCAN
Concen: 54.04 ug/L
RT: 13.740 min Scan# 2284
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion: 91 Resp: 1562

Ion	Ratio	Lower	Upper
91	100		
106	32.1	19.1	79.1
105	0.0	0.0	55.6

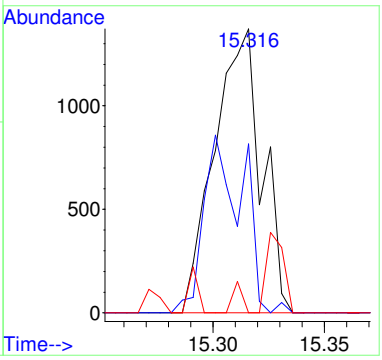


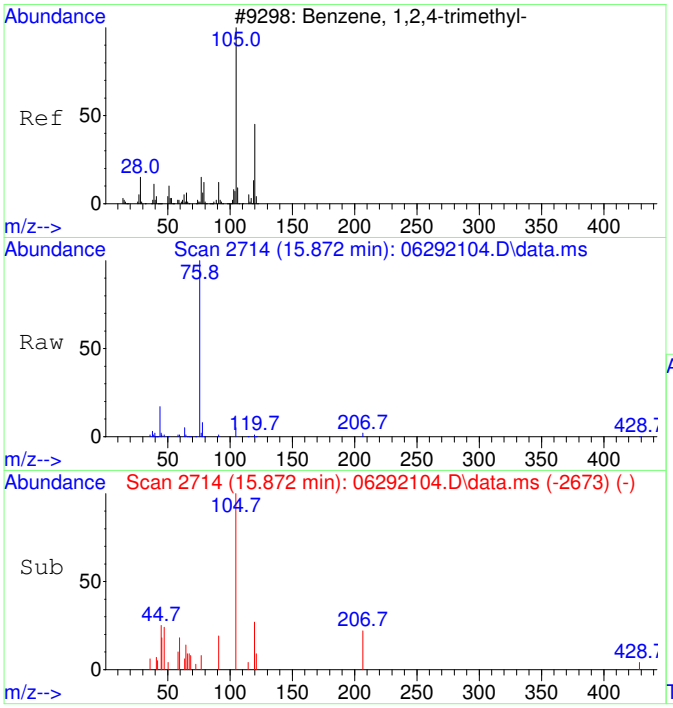


#46
1,3,5-Trimethylbenzene SCAN
Concen: 63.88 ug/L
RT: 15.316 min Scan# 2602
Delta R.T. 0.015 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2027

Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.2	80.2#
119	12.6	0.0	43.8

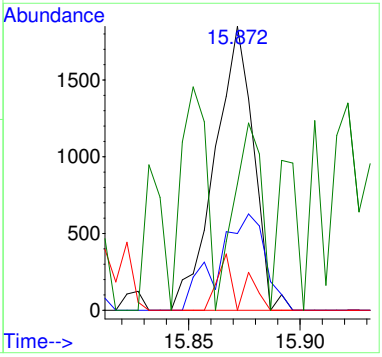


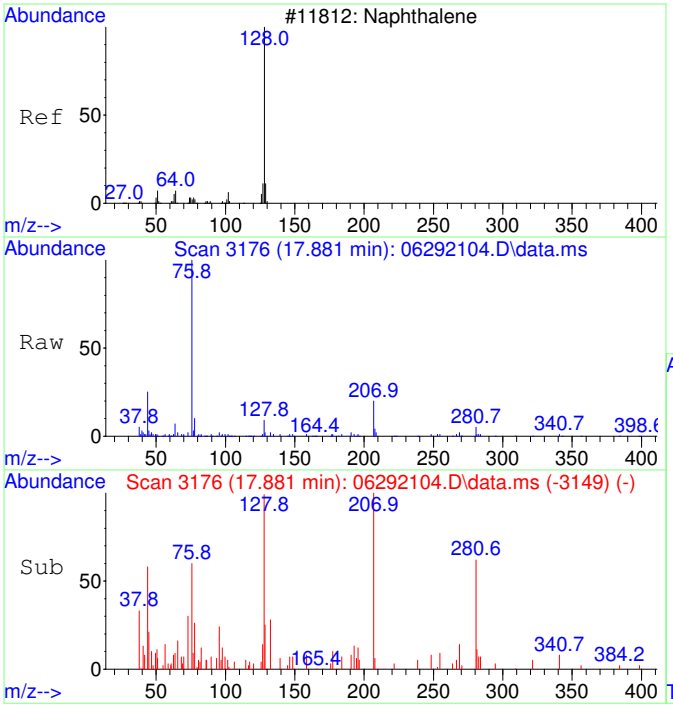


#47
1,2,4-Trimethylbenzene SCAN
Concen: 67.77 ug/L
RT: 15.872 min Scan# 2714
Delta R.T. 0.005 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:105 Resp: 2227

Ion	Ratio	Lower	Upper
105	100		
120	42.0	15.6	75.6
119	11.9	0.0	38.2
77	46.9	0.0	44.0#

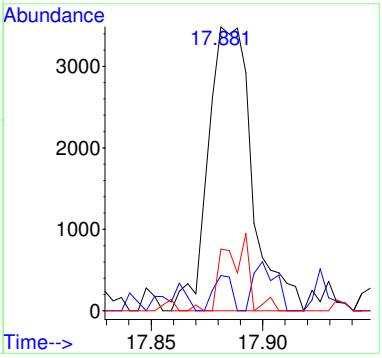




#48
Naphthalene SCAN
Concen: 79.69 ug/L
RT: 17.881 min Scan# 3176
Delta R.T. 0.000 min
Lab File: 06292104.D
Acq: 29 Jun 2021 9:46

Tgt Ion:128 Resp: 4775

Ion	Ratio	Lower	Upper
128	100		
127	5.1	0.0	41.1
129	0.0	0.0	39.5



SECOND SOURCE CALIBRATION CHECK

Radiello D1

Laboratory:	EPA Region 9 Laboratory	SDG:	21176E
Client:	California Site Cleanup Section 3	Project:	MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID:	AG5975CV	Calibration:	2104012
Lab File ID:	04272109.D	Calibration Date:	04/27/21 07:02
Sequence:	S21D071	Injection Date:	04/27/21
Lab Sample ID:	S21D071-SCV1	Injection Time:	16:17

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	SCV	ICAL	SCV	MIN (#)	SCV	LIMIT (#)
1,1-Dichloroethene	L	5000	5440	0.2177782	0.2368718		8.8	30
trans-1,2-Dichloroethene	L	5000	4870	0.187421	0.1826937		-2.5	30
1,1-Dichloroethane	L	5000	4890	0.2570542	0.2512554		-2.3	30
cis-1,2-Dichloroethene	L	5000	5020	0.2463018	0.2472602		0.4	30
Chloroform	L	5000	4670	0.2898732	0.2709802		-6.5	30
1,1,1-Trichloroethane	L	5000	4880	0.2697173	0.2631644		-2.4	30
Carbon tetrachloride	L	5000	4960	0.2349745	0.2332472		-0.7	30
1,2-Dichloroethane	L	5000	5040	0.2239987	0.2258743		0.8	30
Trichloroethene	L	5000	4920	0.2168585	0.2134883		-1.6	30
Toluene	L	5000	4820	1.114812	1.074644		-3.6	30
1,1,2-Trichloroethane	L	5000	5020	0.231917	0.2328383		0.4	30
Tetrachloroethene	L	5000	4950	0.2851816	0.2824888		-0.9	30
Chlorobenzene	L	5000	4340	0.9654336	0.8381641		-13.2	30
1,1,1,2-Tetrachloroethane	L	5000	5080	0.2568866	0.2609283		1.6	30
Ethylbenzene	L	5000	4750	0.9719184	0.8746406		-5.0	30
m&p-Xylene	L	10000	9820	1.127872	1.10779		-1.8	30
o-Xylene	L	5000	4940	1.219855	1.206358		-1.1	30
1,1,2,2-Tetrachloroethane	L	5000	4970	0.5315988	0.5286586		-0.6	30
1,3,5-Trimethylbenzene	L	5000	4920	1.432719	1.410238		-1.6	30
1,2,4-Trimethylbenzene	L	5000	4780	1.492315	1.425601		-4.5	30
Toluene-d8	L	5000	4910	0.8564574	0.8403491		-1.9	30

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272109.D
Acq On : 27 Apr 2021 16:17
InstName : AG5975C
Operator : TD
Sample : S21D071-SCV1
Misc : 2106043 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 06:47:05 2021
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2021\042721.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Thu Apr 29 06:45:57 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.926	109	234781	5000.00	ug/L	# 0.00
System Monitoring Compounds						
12) Toluene-d8	10.433	98	197298	4905.96	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 98.12%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.045	61	55613	5438.37	ug/L #	99
3] trans-1,2-Dichloroethene	4.220	61	42893	4873.89	ug/L #	100
4] 1,1-Dichloroethane	4.963	63	58990	4887.21	ug/L #	99
5] cis-1,2-Dichloroethene	5.992	61	58052	5019.46	ug/L #	100
6] Chloroform	6.564	83	63621	4674.12	ug/L #	100
7] 1,1,1-Trichloroethane	6.831	97	61786	4878.52	ug/L #	100
8] Carbon tetrachloride	7.099	117	54762	4963.24	ug/L #	100
9] Benzene	7.427	78	176024	4602.90	ug/L #	100
10] 1,2-Dichloroethane	7.476	62	53031	5041.87	ug/L #	98
11] Trichloroethene	8.508	130	50123	4922.30	ug/L	98
13] Toluene	10.528	91	252306	4819.84	ug/L	100
14] 1,1,2-Trichloroethane	11.178	97	54666	5019.86	ug/L #	100
15] Tetrachloroethene	11.388	166	66323	4952.79	ug/L #	99
16] Chlorobenzene	12.716	112	196785	4340.87	ug/L #	97
17] 1,1,1,2-Tetrachloroethane	12.867	131	61261	5078.67	ug/L #	100
18] Ethylbenzene	12.923	91	337018	5013.01	ug/L #	99
19] m&p-Xylene	13.121	91	520176	9821.95	ug/L #	100
20] o-Xylene	13.733	91	283230	4944.68	ug/L #	81
21] 1,1,2,2-Tetrachloroethane	14.831	83	124119	4972.35	ug/L #	100
22] 1,3,5-Trimethylbenzene	15.302	105	331097	4921.54	ug/L #	100
23] 1,2,4-Trimethylbenzene	15.868	105	334704	4776.47	ug/L #	100
24] Naphthalene	17.882	128	602323	4601.91	ug/L #	100
25) 2-Fluorotoluene SCAN	10.925	109	135786	4698.81	ug/L	99
26) 1,1-Dichloroethene SCAN	3.048	61	39296	6438.10	ug/L	96
27) trans-1,2-Dichloroethe...	4.226	61	30963	4689.18	ug/L	95
28) 1,1-Dichloroethane SCAN	4.969	63	40721	4601.59	ug/L	87
29) cis-1,2-Dichloroethene...	5.997	61	37143	4160.36	ug/L	94
30) Chloroform SCAN	6.562	83	44486	4711.61	ug/L	93
31) 1,1,1-Trichloroethane ...	6.818	97	42382	4804.16	ug/L	96
32) Carbon tetrachloride SCAN	7.097	117	35323	4852.48	ug/L	96
33) Benzene SCAN	7.438	78	113688	5132.76	ug/L	98
34) 1,2-Dichloroethane SCAN	7.487	62	36988	5296.85	ug/L	96
35) Trichloroethene SCAN	8.507	130	28290	5010.90	ug/L	74
36) Toluene-d8 SCAN	10.432	98	117025	4669.04	ug/L	95
37) Toluene SCAN	10.537	91	164909	5083.61	ug/L	93
38) 1,1,2-Trichloroethane ...	11.188	97	37886	4902.65	ug/L	99
39) Tetrachloroethene SCAN	11.387	166	39881	5105.27	ug/L	94
40) Chlorobenzene SCAN	12.715	112	117992	4879.18	ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.874	131	33930	4725.13	ug/L	89
42) Ethylbenzene SCAN	12.929	91	205349	4748.73	ug/L	100
43) m&p-Xylene SCAN	13.120	91	315290	4887.28	ug/L	97
44) o-Xylene SCAN	13.739	91	177048	4988.89	ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.829	83	87210	5027.30	ug/L	98
46) 1,3,5-Trimethylbenzene...	15.306	105	191971	4927.56	ug/L	99
47) 1,2,4-Trimethylbenzene...	15.867	105	195580	4847.56	ug/L	100
48) Naphthalene SCAN	17.881	128	318584	4330.89	ug/L	97

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2021\042721\
Data File : 04272109.D
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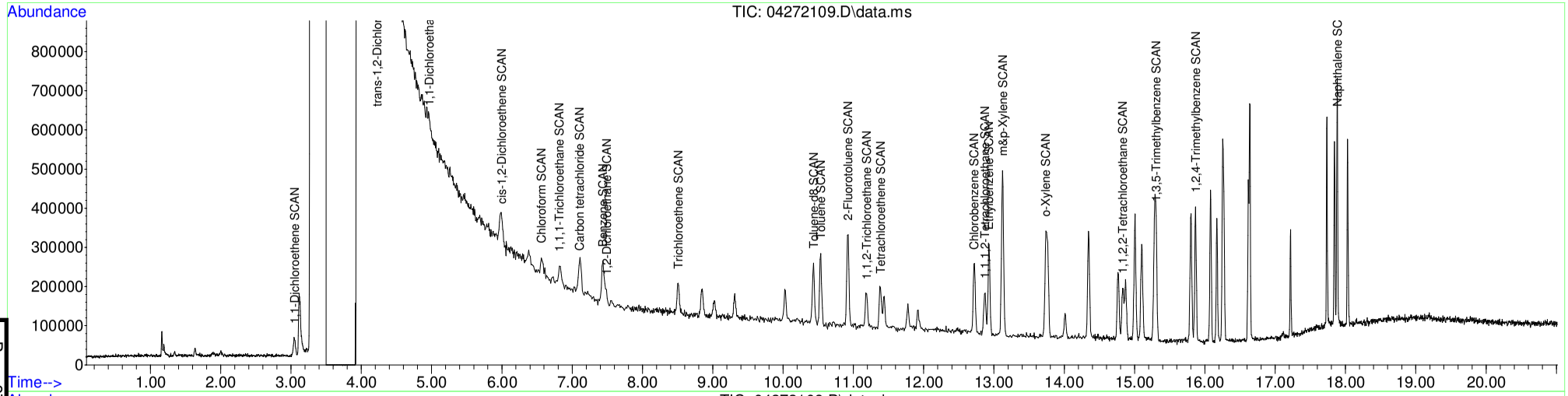

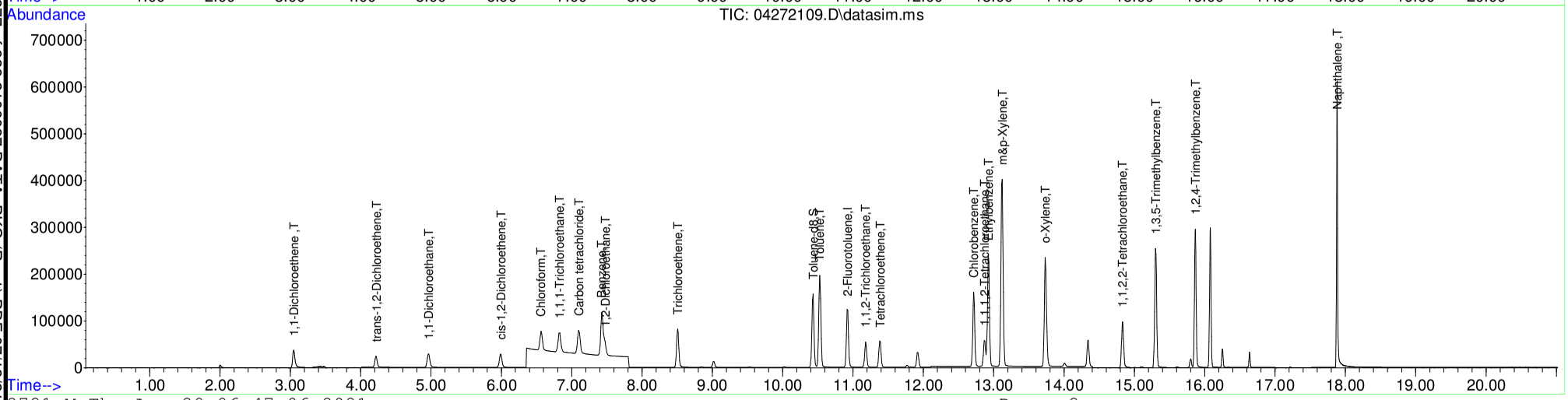

Table of Contents

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

1920046

Description:	Toluene-d8	**Expires:**	03/23/29
Standard Type:	Other Solution	**Prepared:**	05/15/19
Solvent:	na	**Prepared By:**	** Vendor **
Final Volume (mls):	0.1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	10/21/20 11:22 by ZAR
Vendor:	Cambridge Isotope Lab.	**Lot Numbe**	I-21928

Part # DLM-5-10X1; POS #: 18C-262, bar code #AU0010914

Expiration date changed, neat standard, per ZAR

Analyte	CAS Number	Concentration (ppm)
Toluene-d8	2037-26-5	1000000

CERTIFICATE OF ANALYSIS

FROM VENDOR

IS NOT AVAILABLE.

Analytical Standard Record

EPA Region 9 Laboratory

2006158

Description:	VOA 502.2 CAL 2000 MEGA MIX, Stock	**Expires:**	07/31/21
Standard Type:	Other Solution	**Prepared:**	07/16/19
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/06/20 16:38 by EM
Vendor:	Restek	**Lot Numbe**	A0150913

RESTEK, catalog # 30431, Barcode AU011650

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

2006158

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

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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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Certificate of Analysis

ACCREDITED ISO 17034 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.:** A0150913

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, 2021 **Storage:** 0°C or colder

A0011645 646 647 648 649 650 651 652

2006152 6153 6154 6155 ~~6156~~ 6157 ~~6157~~ 6158 ~~6158~~ 6159 ~~6159~~ 616

3/10/20

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)[1]		Expanded Uncertainty (95% C.L., K=2)		
1	1,1-dichloroethene		2,001.7 µg/mL	+/- 12.6162	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBG8609V)		+/- 90.2903	µg/mL	Unstressed
	Purity 99%			+/- 100.1609	µg/mL	Stressed
2	Methylene chloride (dichloromethane)		2,002.3 µg/mL	+/- 12.6195	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBK5095)		+/- 90.3140	µg/mL	Unstressed
	Purity 99%			+/- 100.1872	µg/mL	Stressed
3	trans-1,2-Dichloroethene		2,001.7 µg/mL	+/- 12.6157	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)		+/- 90.2870	µg/mL	Unstressed
	Purity 99%			+/- 100.1572	µg/mL	Stressed
4	1,1-Dichloroethane		2,001.3 µg/mL	+/- 12.6135	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 462600)		+/- 90.2712	µg/mL	Unstressed
	Purity 99%			+/- 100.1396	µg/mL	Stressed
5	2,2-Dichloropropane		2,008.0 µg/mL	+/- 12.7321	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBW4162)		+/- 90.5850	µg/mL	Unstressed
	Purity 98%			+/- 100.4855	µg/mL	Stressed
6	cis-1,2-Dichloroethene		2,001.5 µg/mL	+/- 12.6910	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBX5945V)		+/- 90.2924	µg/mL	Unstressed
	Purity 99%			+/- 100.1609	µg/mL	Stressed
7	chloroform		2,005.2 µg/mL	+/- 12.6381	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBJ9076)		+/- 90.4471	µg/mL	Unstressed
	Purity 99%			+/- 100.3348	µg/mL	Stressed

8	Bromochloromethane		2,015.5	µg/mL	+/-	12.7795	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	90.9224	µg/mL	Unstressed
	Purity 98%				+/-	100.8599	µg/mL	Stressed
9	1,1,1-trichloroethane		2,002.9	µg/mL	+/-	12.6236	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	90.3433	µg/mL	Unstressed
	Purity 98%				+/-	100.2197	µg/mL	Stressed
10	1,1-Dichloropropene		2,013.5	µg/mL	+/-	12.7669	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 180531JLM)			+/-	90.8322	µg/mL	Unstressed
	Purity 99%				+/-	100.7598	µg/mL	Stressed
11	carbon tetrachloride		2,005.4	µg/mL	+/-	12.6395	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG8938V)			+/-	90.4572	µg/mL	Unstressed
	Purity 99%				+/-	100.3460	µg/mL	Stressed
12	1,2-Dichloroethane		2,004.9	µg/mL	+/-	12.6359	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot SHBJ6510)			+/-	90.4313	µg/mL	Unstressed
	Purity 99%				+/-	100.3173	µg/mL	Stressed
13	Benzene		2,005.0	µg/mL	+/-	12.7130	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBK7357)			+/-	90.4487	µg/mL	Unstressed
	Purity 99%				+/-	100.3344	µg/mL	Stressed
14	Trichloroethene		2,006.1	µg/mL	+/-	12.6436	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBH1955V)			+/-	90.4866	µg/mL	Unstressed
	Purity 99%				+/-	100.3786	µg/mL	Stressed
15	1,2-Dichloropropane		2,001.0	µg/mL	+/-	12.6113	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	90.2554	µg/mL	Unstressed
	Purity 99%				+/-	100.1221	µg/mL	Stressed
16	bromodichloromethane		2,006.7	µg/mL	+/-	12.6476	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCJ0238)			+/-	90.5148	µg/mL	Unstressed
	Purity 99%				+/-	100.4098	µg/mL	Stressed
17	Dibromomethane		2,011.9	µg/mL	+/-	12.7567	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	90.7600	µg/mL	Unstressed
	Purity 99%				+/-	100.6797	µg/mL	Stressed
18	cis-1,3-Dichloropropene		2,002.7	µg/mL	+/-	12.6223	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 25649)			+/-	90.3343	µg/mL	Unstressed
	Purity 99%				+/-	100.2097	µg/mL	Stressed
19	Toluene		2,003.6	µg/mL	+/-	12.7043	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBK3737)			+/-	90.3871	µg/mL	Unstressed
	Purity 99%				+/-	100.2660	µg/mL	Stressed
20	trans-1,3-Dichloropropene		2,002.2	µg/mL	+/-	12.6189	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot 19160070-D19056)			+/-	90.3095	µg/mL	Unstressed
	Purity 99%				+/-	100.1822	µg/mL	Stressed
21	1,1,2-Trichloroethane		2,000.6	µg/mL	+/-	12.6088	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	90.2373	µg/mL	Unstressed
	Purity 99%				+/-	100.1021	µg/mL	Stressed
22	1,3-Dichloropropane		2,001.6	µg/mL	+/-	12.6912	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	90.2939	µg/mL	Unstressed
	Purity 99%				+/-	100.1626	µg/mL	Stressed
23	Tetrachloroethene		2,003.4	µg/mL	+/-	12.6268	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	90.3659	µg/mL	Unstressed
	Purity 99%				+/-	100.2447	µg/mL	Stressed

40	2-Chlorotoluene			2,011.5	µg/mL	+/-	12.7544	µg/mL	Gravimetric
	CAS #	95-49-8	(Lot MKBW5554V)			+/-	90.7435	µg/mL	Unstressed
	Purity	99%				+/-	100.6613	µg/mL	Stressed
41	4-Chlorotoluene			2,006.2	µg/mL	+/-	12.7206	µg/mL	Gravimetric
	CAS #	106-43-4	(Lot MKBL7753V)			+/-	90.5029	µg/mL	Unstressed
	Purity	99%				+/-	100.3944	µg/mL	Stressed
42	tert-Butylbenzene			2,010.9	µg/mL	+/-	12.7502	µg/mL	Gravimetric
	CAS #	98-06-6	(Lot STBD6954V)			+/-	90.7134	µg/mL	Unstressed
	Purity	99%				+/-	100.6280	µg/mL	Stressed
43	1,2,4-Trimethylbenzene			2,007.3	µg/mL	+/-	12.7278	µg/mL	Gravimetric
	CAS #	95-63-6	(Lot WXBC4246V)			+/-	90.5540	µg/mL	Unstressed
	Purity	99%				+/-	100.4512	µg/mL	Stressed
44	sec-Butylbenzene			2,011.4	µg/mL	+/-	12.7533	µg/mL	Gravimetric
	CAS #	135-98-8	(Lot MKCG5431)			+/-	90.7359	µg/mL	Unstressed
	Purity	99%				+/-	100.6530	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)			2,010.8	µg/mL	+/-	12.7500	µg/mL	Gravimetric
	CAS #	99-87-6	(Lot MKCB7536)			+/-	90.7119	µg/mL	Unstressed
	Purity	99%				+/-	100.6263	µg/mL	Stressed
46	1,3-Dichlorobenzene			2,005.6	µg/mL	+/-	12.6406	µg/mL	Gravimetric
	CAS #	541-73-1	(Lot BCBQ7100V)			+/-	90.4651	µg/mL	Unstressed
	Purity	99%				+/-	100.3548	µg/mL	Stressed
47	1,4-Dichlorobenzene			2,008.0	µg/mL	+/-	12.6558	µg/mL	Gravimetric
	CAS #	106-46-7	(Lot MKBS4401V)			+/-	90.5734	µg/mL	Unstressed
	Purity	99%				+/-	100.4749	µg/mL	Stressed
48	n-Butylbenzene			2,006.9	µg/mL	+/-	12.7252	µg/mL	Gravimetric
	CAS #	104-51-8	(Lot 09804AE)			+/-	90.5360	µg/mL	Unstressed
	Purity	99%				+/-	100.4311	µg/mL	Stressed
49	1,2-Dichlorobenzene			2,007.2	µg/mL	+/-	12.6509	µg/mL	Gravimetric
	CAS #	95-50-1	(Lot SHBG3111V)			+/-	90.5384	µg/mL	Unstressed
	Purity	99%				+/-	100.4361	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane			2,001.3	µg/mL	+/-	12.6897	µg/mL	Gravimetric
	CAS #	96-12-8	(Lot FBL01)			+/-	90.2835	µg/mL	Unstressed
	Purity	97%				+/-	100.1511	µg/mL	Stressed
51	1,2,4-Trichlorobenzene			2,011.9	µg/mL	+/-	12.7567	µg/mL	Gravimetric
	CAS #	120-82-1	(Lot SHBJ9215)			+/-	90.7600	µg/mL	Unstressed
	Purity	99%				+/-	100.6797	µg/mL	Stressed
52	Hexachlorobutadiene			2,005.5	µg/mL	+/-	12.7163	µg/mL	Gravimetric
	CAS #	87-68-3	(Lot J31X013)			+/-	90.4728	µg/mL	Unstressed
	Purity	99%				+/-	100.3611	µg/mL	Stressed
53	Naphthalene			2,003.1	µg/mL	+/-	12.7009	µg/mL	Gravimetric
	CAS #	91-20-3	(Lot MKBZ8680V)			+/-	90.3630	µg/mL	Unstressed
	Purity	99%				+/-	100.2393	µg/mL	Stressed
54	1,2,3-Trichlorobenzene			2,004.8	µg/mL	+/-	12.7119	µg/mL	Gravimetric
	CAS #	87-61-6	(Lot MKBX7627V)			+/-	90.4412	µg/mL	Unstressed
	Purity	99%				+/-	100.3261	µg/mL	Stressed

24	dibromochloromethane			2,004.8	µg/mL	+/-	12.6358	µg/mL	Gravimetric
	CAS #	124-48-1	(Lot MKCJ3856)			+/-	90.4306	µg/mL	Unstressed
	Purity	98%				+/-	100.3165	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)			2,002.8	µg/mL	+/-	12.6990	µg/mL	Gravimetric
	CAS #	106-93-4	(Lot BCBP2268V)			+/-	90.3495	µg/mL	Unstressed
	Purity	99%				+/-	100.2243	µg/mL	Stressed
26	Chlorobenzene			2,003.2	µg/mL	+/-	12.6252	µg/mL	Gravimetric
	CAS #	108-90-7	(Lot SHBJ0839)			+/-	90.3546	µg/mL	Unstressed
	Purity	99%				+/-	100.2322	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane			2,007.3	µg/mL	+/-	12.7275	µg/mL	Gravimetric
	CAS #	630-20-6	(Lot MKBS3769V)			+/-	90.5525	µg/mL	Unstressed
	Purity	99%				+/-	100.4495	µg/mL	Stressed
28	Ethylbenzene			2,003.7	µg/mL	+/-	12.7045	µg/mL	Gravimetric
	CAS #	100-41-4	(Lot SHBJ4278)			+/-	90.3886	µg/mL	Unstressed
	Purity	99%				+/-	100.2677	µg/mL	Stressed
29	m-Xylene			2,006.0	µg/mL	+/-	12.7195	µg/mL	Gravimetric
	CAS #	108-38-3	(Lot SHBJ8743)			+/-	90.4954	µg/mL	Unstressed
	Purity	99%				+/-	100.3861	µg/mL	Stressed
30	p-Xylene			2,013.1	µg/mL	+/-	12.7645	µg/mL	Gravimetric
	CAS #	106-42-3	(Lot SHBJ7329)			+/-	90.8156	µg/mL	Unstressed
	Purity	99%				+/-	100.7414	µg/mL	Stressed
31	o-Xylene			2,007.6	µg/mL	+/-	12.7295	µg/mL	Gravimetric
	CAS #	95-47-6	(Lot SHBK7739)			+/-	90.5660	µg/mL	Unstressed
	Purity	99%				+/-	100.4645	µg/mL	Stressed
32	Styrene			2,012.8	µg/mL	+/-	12.7624	µg/mL	Gravimetric
	CAS #	100-42-5	(Lot MKCC9766)			+/-	90.8006	µg/mL	Unstressed
	Purity	99%				+/-	100.7247	µg/mL	Stressed
33	Isopropylbenzene (cumene)			2,007.2	µg/mL	+/-	12.7271	µg/mL	Gravimetric
	CAS #	98-82-8	(Lot P15E008)			+/-	90.5495	µg/mL	Unstressed
	Purity	99%				+/-	100.4462	µg/mL	Stressed
34	bromoform			2,009.4	µg/mL	+/-	12.6644	µg/mL	Gravimetric
	CAS #	75-25-2	(Lot SHBJ4835)			+/-	90.6354	µg/mL	Unstressed
	Purity	99%				+/-	100.5437	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane			2,008.7	µg/mL	+/-	12.6600	µg/mL	Gravimetric
	CAS #	79-34-5	(Lot CFA4D)			+/-	90.6038	µg/mL	Unstressed
	Purity	99%				+/-	100.5087	µg/mL	Stressed
36	1,2,3-Trichloropropane			2,010.2	µg/mL	+/-	12.7461	µg/mL	Gravimetric
	CAS #	96-18-4	(Lot BCBH8722V)			+/-	90.6848	µg/mL	Unstressed
	Purity	99%				+/-	100.5963	µg/mL	Stressed
37	n-Propylbenzene			2,005.1	µg/mL	+/-	12.7134	µg/mL	Gravimetric
	CAS #	103-65-1	(Lot WXBC5978V)			+/-	90.4517	µg/mL	Unstressed
	Purity	99%				+/-	100.3377	µg/mL	Stressed
38	Bromobenzene			2,010.9	µg/mL	+/-	12.7504	µg/mL	Gravimetric
	CAS #	108-86-1	(Lot MKBD4032V)			+/-	90.7149	µg/mL	Unstressed
	Purity	99%				+/-	100.6296	µg/mL	Stressed
39	1,3,5-Trimethylbenzene			2,008.1	µg/mL	+/-	12.7326	µg/mL	Gravimetric
	CAS #	108-67-8	(Lot BCBZ6781)			+/-	90.5886	µg/mL	Unstressed
	Purity	99%				+/-	100.4895	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

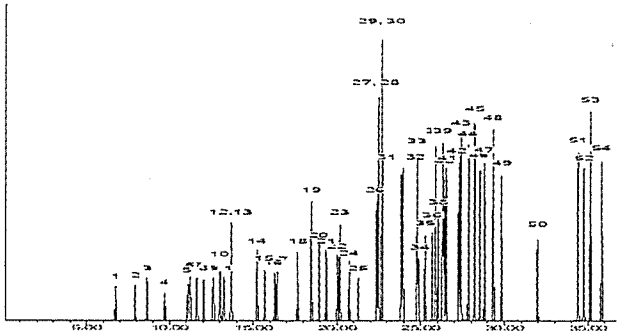
Carrier Gas:
helium-constant pressure 30 psi

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.

Cydnei L. Crust - Mix Technician

Date Mixed: 16-Jul-2019 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 19-Jul-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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 17034 and Guide 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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

2039025

Description:	VOA BFB tuning mix, stock STD.	**Expires:**	10/31/25
Standard Type:	Other Solution	**Prepared:**	09/24/20
Solvent:	Solvent Lot #	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	09/24/20 11:27 by EM
Vendor:	Restek	**Lot Numbe**	A0162498

RESTEK Cat No. 30003, LOT # A0162498 Bar code #AU012128

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene	460-00-4	5000

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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.:** A0162498

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 : October 31, 2025 **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)	5,012.0 µg/mL	+/- 29.4132 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 281.0463 µg/mL	Unstressed
	Purity 99%		+/- 287.6211 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

AU012127/2039024
AU012128/2039025
AU012129/2039026
AU012130/2039027
AU012131/2039028

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

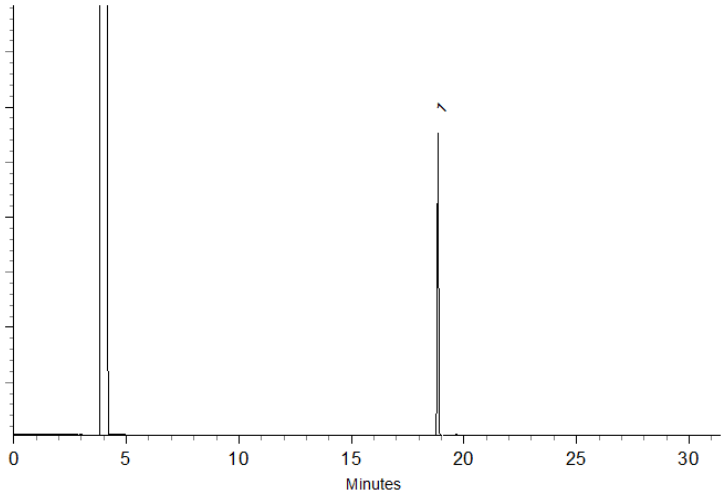
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

Kylie Struble - Operations Technician I

Date Mixed: 13-Jul-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 14-Jul-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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 17034 and Guide 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) -20°C or colder (Deep 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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Analytical Standard Record

EPA Region 9 Laboratory

2045061

Description:	VOA 502/524 VOC Mix, Stock	**Expires:**	09/01/22
Standard Type:	Other Solution	**Prepared:**	09/01/20
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1.15	**Department:**	Volatiles
Vials:	1	**Last Edit:**	11/04/20 11:15 by EM
Vendor:	Sigma Aldrich	**Lot Numbe**	LRAC7008

Sigma-Aldrich (Supelco), Cat # 502111, Lot# LRAC7008, bar code AU012216

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

2045061

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

EPA 502/524 Volatiles Organic Calibration Mix (without gases)

Certified Reference Material

Description

Product ID 502111
Lot **LRAC7008**
Expiration Date September 2022
Manufacturing Date September 2018
Storage Conditions Freeze
Solvent/Matrix METHANOL

2045060 / AU012215
2045061 / AU012216
2045062 / AU012217
2045063 / AU012218
2045064 / AU012219

Certified Values

Analyte	*Units*	*Certified Value* [1,4]	*Raw Material Purity,%*	*Analytical Value* [6]	*Elution order*	*Raw Material Lot*	*CAS*
1,1-DICHLOROETHYLENE	µg/ml	2000 ± 170	99.9998	2120	1	LC08188	75-35-4
DICHLOROMETHANE	µg/ml	2000 ± 140	99.99	2040	2	SHBK1353	75-09-2
TRANS-1,2-DICHLOROETHYLENE	µg/ml	2000 ± 140	99.7	2040	3	MKBH9850V	156-60-5
1,1-DICHLOROETHANE	µg/ml	2001 ± 130	99.9	1980	4	LB68167	75-34-3
2,2-DICHLOROPROPANE	µg/ml	2000 ± 135	98.4	2010	5	BCBR0622V	594-20-7
CIS-1,2-DICHLOROETHYLENE	µg/ml	2001 ± 130	99.9	2010	6	LB73428	156-59-2
CHLOROFORM	µg/ml	2000 ± 120	99.94	2000	7	MKBV7632V	67-66-3
BROMOCHLOROMETHANE	µg/ml	2001 ± 110	98.9	1990	8	LB39040	74-97-5
1,1,1-TRICHLOROETHANE	µg/ml	2000 ± 140	97.2	2020	9	LC06533	71-55-6
1,1-DICHLOROPROPYLENE	µg/ml	2001 ± 125	99.5	1990	10	7738900	563-58-6
CARBON TETRACHLORIDE	µg/ml	2000 ± 140	99.97	1990	11	02041MB	56-23-5
1,2-DICHLOROETHANE	µg/ml	2001 ± 110	99.9	2010	12	LB74294	107-06-02
BENZENE	µg/ml	2000 ± 120	99.99	1970	13	SHBJ5344	71-43-2
TRICHLOROETHYLENE	µg/ml	2001 ± 110	98.6	2010	14	LB86674	79-01-6
1,2-DICHLOROPROPANE	µg/ml	2001 ± 120	99.9	1980	15	LC14320	78-87-5
BROMODICHLOROMETHANE	µg/ml	2001 ± 120	97.9	1980	16	MKCF8470	75-27-4
DIBROMOMETHANE	µg/ml	2001 ± 110	98.8	2030	17	LB81118	74-95-3
TRANS 1,3-DICHLOROPROPENE	µg/ml	2002 ± 120	99	1970	18	ZDMSLEK	10061-02-06
TOLUENE	µg/ml	2000 ± 110	99.98	2010	19	MKCF0747	108-88-3
CIS 1,3-DICHLOROPROPENE	µg/ml	2001 ± 120	99.3	1990	20	MKBZ5000V	10061-01-5
1,1,2-TRICHLOROETHANE	µg/ml	2000 ± 110	99.9	2010	21	LB87978	79-00-5
1,3-DICHLOROPROPANE	µg/ml	2000 ± 110	99.9	1990	22	LC10811	142-28-9
TETRACHLOROETHYLENE	µg/ml	2000 ± 110	99.9	2010	23	LB67182	127-18-4
DIBROMOCHLOROMETHANE	µg/ml	2000 ± 120	96.5	2020	24	LB89245	124-48-1
1,2-DIBROMOETHANE	µg/ml	2003 ± 110	99.1	2020	25	LB42792	106-93-4
CHLOROBENZENE	µg/ml	2000 ± 94	99.9	1990	26	LB93949	108-90-7

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot **LRAC7008**
Expiration Date September 2022
Manufacturing Date September 2018
Storage Conditions Freeze
Solvent/Matrix METHANOL

1,1,1,2-TETRACHLOROETHANE	µg/ml	2000 ± 110	99.9	1980	27	LC14810	630-20-6
ETHYLBENZENE	µg/ml	2000 ± 110	99.87	1980	28	SHBK2389	100-41-4
M-XYLENE	µg/ml	2002 ± 110	99.8	2000	29	LB87531	108-38-3
P-XYLENE	µg/ml	2000 ± 110	99.9	2000	29	LB73203	106-42-3
O-XYLENE	µg/ml	2000 ± 110	99.5	2000	30	LB92424	95-47-6
STYRENE	µg/ml	2000 ± 98	99.9	1990	31	LC17632	100-42-5
CUMENE	µg/ml	2000 ± 99	99.9	2010	32	LB89580	98-82-8
BROMOFORM	µg/ml	2001 ± 120	96.1	2050	33	67996PJ	75-25-2
1,1,2,2-TETRACHLOROETHANE	µg/ml	2000 ± 100	99.9	1990	34	LB51327	79-34-5
1,2,3-TRICHLOROPROPANE	µg/ml	2001 ± 99	99	2020	35	BCBH8722V	96-18-4
N-PROPYLBENZENE	µg/ml	2000 ± 100	99.9	1990	36	T2HFC	103-65-1
BROMOBENZENE	µg/ml	2001 ± 98	99.5	1980	37	LB99843	108-86-1
1,2,4-TRIMETHYLBENZENE	µg/ml	2000 ± 100	98.9	2020	38	LB97224	95-63-6
2-CHLOROTOLUENE	µg/ml	2001 ± 98	99.9	2010	39	LC01464	95-49-8
4-CHLOROTOLUENE	µg/ml	2001 ± 92	99.9	2000	40	LC02742	106-43-4
TERT-BUTYLBENZENE	µg/ml	2000 ± 93	99.9	2000	41	LB40373	98-06-6
1,3,5-TRIMETHYLBENZENE	µg/ml	2000 ± 94	99.3	1980	42	LB82157	108-67-8
SEC-BUTYLBENZENE	µg/ml	2000 ± 93	99.4	1990	43	LB77150	135-98-8
P-ISOPROPYLTOLUENE	µg/ml	2000 ± 88	98.7	1960	44	LB40003	99-87-6
1,4-DICHLOROBENZENE	µg/ml	2000 ± 88	99.9	2000	45	LB90630	106-46-7
1,3-DICHLOROBENZENE	µg/ml	2001 ± 94	99.9	2010	46	LC17654	541-73-1
N-BUTYLBENZENE	µg/ml	2000 ± 91	99.9	2010	47	LB81630	104-51-8
1,2-DICHLOROBENZENE	µg/ml	2001 ± 82	99.4	2010	48	LB58923	95-50-1
1,2-DIBROMO-3-CHLOROPROPANE	µg/ml	2000 ± 89	96.8	2060	49	LB06608	96-12-8
1,2,3-TRICHLOROBENZENE	µg/ml	2000 ± 73	99.9	2010	50	LC20450	87-61-6
HEXACHLOROBUTADIENE	µg/ml	2000 ± 81	97.4	2060	51	MKCD4346	87-68-3
NAPHTHALENE	µg/ml	2000 ± 81	99.9	1990	52	16412TN	91-20-3
1,2,4-TRICHLOROBENZENE	µg/ml	2001 ± 67	99.4	2020	53	LB48083	120-82-1

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

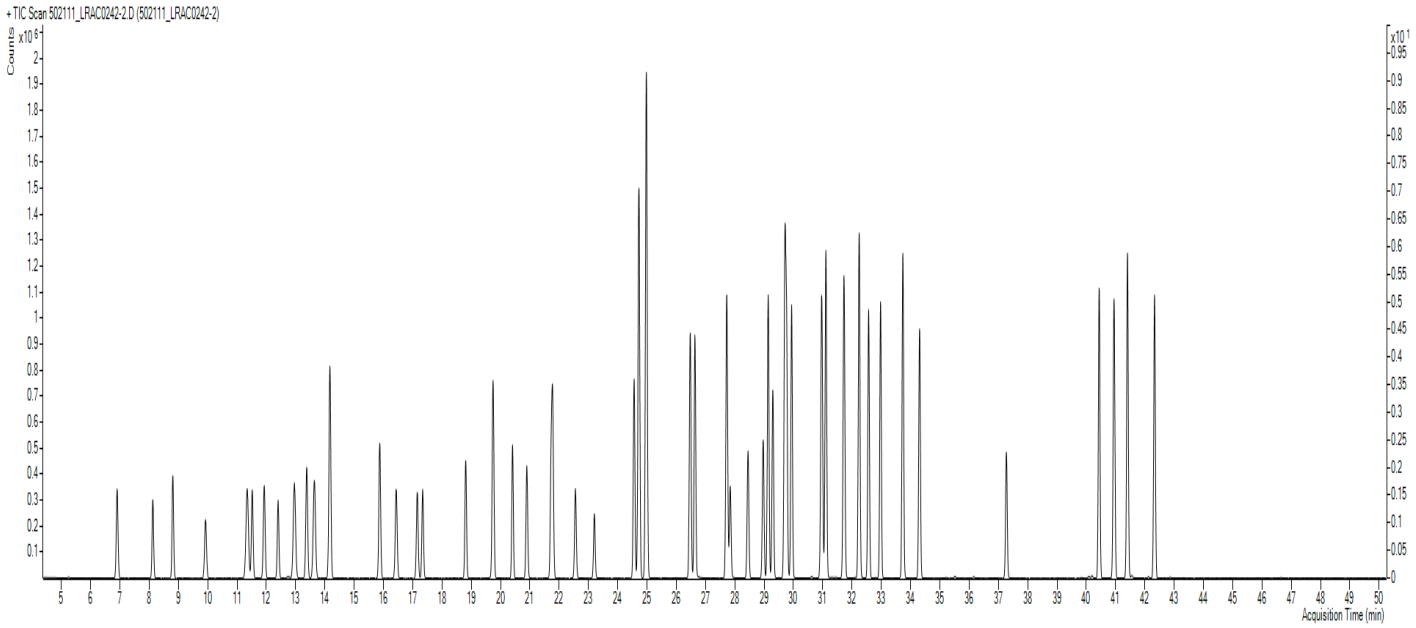
Certificate of Analysis

EPA 502/524 Volatiles Organic Calibration Mix (without gases)

Certified Reference Material

Description

Product ID	502111
Lot	**LRAC7008**
Expiration Date	September 2022
Manufacturing Date	September 2018
Storage Conditions	Freeze
Solvent/Matrix	METHANOL



Additional Information:

Analytical Method Parameters:

Column: VOCOL, 60 m x 0.25 mm x 1.5 µm df
35°C (4 min) to 200°C (5 min) at 4°C/min
Detector: MSD, 200°C
Injection Volume: 1 µL

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot	**LRAC7008**
Expiration Date	September 2022
Manufacturing Date	September 2018
Storage Conditions	Freeze
Solvent/Matrix	METHANOL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

***k*:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date	September 30, 2020
Version	0-9302020

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Analytical Standard Record

EPA Region 9 Laboratory

2106033

Description:	Passive indoor air Internal Standard Stock	**Expires:**	08/02/21
Standard Type:	Other Solution	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:39 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
2-Fluorotoluene	95-52-3	10000

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
1639096	2-Fluorotoluene	09/22/16	** Vendor **	12/31/29	09/22/17 11:57 by TD	0.(

Analytical Standard Record

EPA Region 9 Laboratory

2106034

Description:	Passive indoor air stock std 50	**Expires:**	07/31/21
Standard Type:	Analyte Spike	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	20	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:43 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	50
1,1,1,2-Tetrachloroethane	630-20-6	50
Bromobenzene	108-86-1	50
Benzene	71-43-2	50
4-Chlorotoluene	106-43-4	50
2-Chlorotoluene	95-49-8	50
2,2-Dichloropropane	594-20-7	50
1,4-Dichlorobenzene	106-46-7	50
1,3-Dichloropropane	142-28-9	50
1,3-Dichlorobenzene	541-73-1	50
1,3,5-Trimethylbenzene	108-67-8	50
1,2-Dichloropropane	78-87-5	50
Bromodichloromethane	75-27-4	50
1,2-Dichlorobenzene	95-50-1	50
Bromoform	75-25-2	50
1,2-Dibromo-3-chloropropane	96-12-8	50
1,2,4-Trimethylbenzene	95-63-6	50
1,2,4-Trichlorobenzene	120-82-1	50
1,2,3-Trichloropropane	96-18-4	50
1,2,3-Trichlorobenzene	87-61-6	50
1,1-Dichloropropene	563-58-6	50
1,1-Dichloroethene	75-35-4	50
1,1-Dichloroethane	75-34-3	50
1,1,2-Trichloroethane	79-00-5	50
1,1,2,2-Tetrachloroethane	79-34-5	50
1,1,1-Trichloroethane	71-55-6	50
1,2-Dichloroethane	107-06-2	50
Isopropylbenzene	98-82-8	50
trans-1,3-Dichloropropene	10061-02-6	50
trans-1,2-Dichloroethene	156-60-5	50
Toluene-d8	2037-26-5	50
Toluene	108-88-3	50
Tetrachloroethene	127-18-4	50

Analytical Standard Record

EPA Region 9 Laboratory

2106034

tert-Butylbenzene	98-06-6	50
Styrene	100-42-5	50
sec-Butylbenzene	135-98-8	50
Propylbenzene	103-65-1	50
p-Isopropyltoluene	99-87-6	50
o-Xylene	95-47-6	50
Bromochloromethane	74-97-5	50
m&p-Xylene	179601-23-1	100
Trichloroethene	79-01-6	50
Hexachlorobutadiene	87-68-3	50
Ethylbenzene	100-41-4	50
Dichloromethane	75-09-2	50
Dibromomethane	74-95-3	50
cis-1,3-Dichloropropene	10061-01-5	50
cis-1,2-Dichloroethene	156-59-2	50
Chloroform	67-66-3	50
Chlorodibromomethane	124-48-1	50
Chlorobenzene	108-90-7	50
Carbon tetrachloride	56-23-5	50
Butylbenzene	104-51-8	50
Naphthalene	91-20-3	50

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
2006158	VOA 502.2 CAL 2000 MEGA MIX, St	07/16/19	** Vendor **	07/31/21	02/02/21 07:42 by TD	0
2106032	Passive indoor air Surrogate Stock	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:36 by TD	0

Analytical Standard Record

EPA Region 9 Laboratory

2106036

Description:	Passive air Surrogate/I.S. Working solutio	**Expires:**	08/02/21
Standard Type:	Surrogate Spike	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	25	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:45 by TD
Vendor:	Restek	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
Toluene-d8	2037-26-5	200
2-Fluorotoluene	95-52-3	200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
2106032	Passive indoor air Surrogate Stock	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:36 by TD	0
2106033	Passive indoor air Internal Standard Sto	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:39 by TD	0

Analytical Standard Record

EPA Region 9 Laboratory

2106037

Description:	Passive indoor air 25	**Expires:**	07/31/21
Standard Type:	Other Solution	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:46 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	25
Bromobenzene	108-86-1	25
Benzene	71-43-2	25
4-Chlorotoluene	106-43-4	25
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	25
2,2-Dichloropropane	594-20-7	25
1,4-Dichlorobenzene	106-46-7	25
1,3-Dichloropropane	142-28-9	25
1,3-Dichlorobenzene	541-73-1	25
1,3,5-Trimethylbenzene	108-67-8	25
1,2-Dichloropropane	78-87-5	25
1,1,1,2-Tetrachloroethane	630-20-6	25
1,2-Dichlorobenzene	95-50-1	25
Bromoform	75-25-2	25
1,2-Dibromo-3-chloropropane	96-12-8	25
1,2,4-Trimethylbenzene	95-63-6	25
1,2,4-Trichlorobenzene	120-82-1	25
1,2,3-Trichloropropane	96-18-4	25
1,2,3-Trichlorobenzene	87-61-6	25
1,1-Dichloropropene	563-58-6	25
1,1-Dichloroethene	75-35-4	25
1,1-Dichloroethane	75-34-3	25
1,1,2-Trichloroethane	79-00-5	25
1,1,2,2-Tetrachloroethane	79-34-5	25
1,1,1-Trichloroethane	71-55-6	25
1,2-Dichloroethane	107-06-2	25
Isopropylbenzene	98-82-8	25
trans-1,3-Dichloropropene	10061-02-6	25
trans-1,2-Dichloroethene	156-60-5	25
Toluene-d8	2037-26-5	25
Toluene	108-88-3	25
Tetrachloroethene	127-18-4	25

Analytical Standard Record

EPA Region 9 Laboratory

2106037

tert-Butylbenzene	98-06-6	25
Styrene	100-42-5	25
sec-Butylbenzene	135-98-8	25
Propylbenzene	103-65-1	25
p-Isopropyltoluene	99-87-6	25
o-Xylene	95-47-6	25
Bromochloromethane	74-97-5	25
m&p-Xylene	179601-23-1	50
Bromodichloromethane	75-27-4	25
Hexachlorobutadiene	87-68-3	25
Ethylbenzene	100-41-4	25
Dichloromethane	75-09-2	25
Dibromomethane	74-95-3	25
cis-1,3-Dichloropropene	10061-01-5	25
cis-1,2-Dichloroethene	156-59-2	25
Chloroform	67-66-3	25
Chlorodibromomethane	124-48-1	25
Chlorobenzene	108-90-7	25
Carbon tetrachloride	56-23-5	25
Butylbenzene	104-51-8	25
Trichloroethene	79-01-6	25
Naphthalene	91-20-3	25

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
2106034	Passive indoor air stock std 50	02/02/21	Tatyana Dadiomov	07/31/21	02/02/21 07:43 by TD	
2106033	Passive indoor air Internal Standard Sto	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:39 by TD	0.0(

Analytical Standard Record

EPA Region 9 Laboratory

2106038

Description:	Passive indoor air 10	**Expires:**	07/31/21
Standard Type:	Other Solution	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:47 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	10
Bromobenzene	108-86-1	10
Benzene	71-43-2	10
4-Chlorotoluene	106-43-4	10
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	10
2,2-Dichloropropane	594-20-7	10
1,4-Dichlorobenzene	106-46-7	10
1,3-Dichloropropane	142-28-9	10
1,3-Dichlorobenzene	541-73-1	10
1,3,5-Trimethylbenzene	108-67-8	10
1,2-Dichloropropane	78-87-5	10
1,1,1,2-Tetrachloroethane	630-20-6	10
1,2-Dichlorobenzene	95-50-1	10
Bromoform	75-25-2	10
1,2-Dibromo-3-chloropropane	96-12-8	10
1,2,4-Trimethylbenzene	95-63-6	10
1,2,4-Trichlorobenzene	120-82-1	10
1,2,3-Trichloropropane	96-18-4	10
1,2,3-Trichlorobenzene	87-61-6	10
1,1-Dichloropropene	563-58-6	10
1,1-Dichloroethene	75-35-4	10
1,1-Dichloroethane	75-34-3	10
1,1,2-Trichloroethane	79-00-5	10
1,1,2,2-Tetrachloroethane	79-34-5	10
1,1,1-Trichloroethane	71-55-6	10
1,2-Dichloroethane	107-06-2	10
Isopropylbenzene	98-82-8	10
trans-1,3-Dichloropropene	10061-02-6	10
trans-1,2-Dichloroethene	156-60-5	10
Toluene-d8	2037-26-5	10
Toluene	108-88-3	10
Tetrachloroethene	127-18-4	10

Analytical Standard Record

EPA Region 9 Laboratory

2106038

tert-Butylbenzene	98-06-6	10
Styrene	100-42-5	10
sec-Butylbenzene	135-98-8	10
Propylbenzene	103-65-1	10
p-Isopropyltoluene	99-87-6	10
o-Xylene	95-47-6	10
Bromochloromethane	74-97-5	10
m&p-Xylene	179601-23-1	20
Bromodichloromethane	75-27-4	10
Hexachlorobutadiene	87-68-3	10
Ethylbenzene	100-41-4	10
Dichloromethane	75-09-2	10
Dibromomethane	74-95-3	10
cis-1,3-Dichloropropene	10061-01-5	10
cis-1,2-Dichloroethene	156-59-2	10
Chloroform	67-66-3	10
Chlorodibromomethane	124-48-1	10
Chlorobenzene	108-90-7	10
Carbon tetrachloride	56-23-5	10
Butylbenzene	104-51-8	10
Trichloroethene	79-01-6	10
Naphthalene	91-20-3	10

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
2106034	Passive indoor air stock std 50	02/02/21	Tatyana Dadiomov	07/31/21	02/02/21 07:43 by TD	
2106033	Passive indoor air Internal Standard Sto	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:39 by TD	0.0(

Analytical Standard Record

EPA Region 9 Laboratory

2106039

Description:	Passive indoor air 5	**Expires:**	07/31/21
Standard Type:	Other Solution	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:48 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	5
Bromobenzene	108-86-1	5
Benzene	71-43-2	5
4-Chlorotoluene	106-43-4	5
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	5
2,2-Dichloropropane	594-20-7	5
1,4-Dichlorobenzene	106-46-7	5
1,3-Dichloropropane	142-28-9	5
1,3-Dichlorobenzene	541-73-1	5
1,3,5-Trimethylbenzene	108-67-8	5
1,2-Dichloropropane	78-87-5	5
1,1,1,2-Tetrachloroethane	630-20-6	5
1,2-Dichlorobenzene	95-50-1	5
Bromoform	75-25-2	5
1,2-Dibromo-3-chloropropane	96-12-8	5
1,2,4-Trimethylbenzene	95-63-6	5
1,2,4-Trichlorobenzene	120-82-1	5
1,2,3-Trichloropropane	96-18-4	5
1,2,3-Trichlorobenzene	87-61-6	5
1,1-Dichloropropene	563-58-6	5
1,1-Dichloroethene	75-35-4	5
1,1-Dichloroethane	75-34-3	5
1,1,2-Trichloroethane	79-00-5	5
1,1,2,2-Tetrachloroethane	79-34-5	5
1,1,1-Trichloroethane	71-55-6	5
1,2-Dichloroethane	107-06-2	5
Isopropylbenzene	98-82-8	5
trans-1,3-Dichloropropene	10061-02-6	5
trans-1,2-Dichloroethene	156-60-5	5
Toluene-d8	2037-26-5	5
Toluene	108-88-3	5
Tetrachloroethene	127-18-4	5

Analytical Standard Record

EPA Region 9 Laboratory

2106039

tert-Butylbenzene	98-06-6	5
Styrene	100-42-5	5
sec-Butylbenzene	135-98-8	5
Propylbenzene	103-65-1	5
p-Isopropyltoluene	99-87-6	5
o-Xylene	95-47-6	5
Bromochloromethane	74-97-5	5
m&p-Xylene	179601-23-1	10
Bromodichloromethane	75-27-4	5
Hexachlorobutadiene	87-68-3	5
Ethylbenzene	100-41-4	5
Dichloromethane	75-09-2	5
Dibromomethane	74-95-3	5
cis-1,3-Dichloropropene	10061-01-5	5
cis-1,2-Dichloroethene	156-59-2	5
Chloroform	67-66-3	5
Chlorodibromomethane	124-48-1	5
Chlorobenzene	108-90-7	5
Carbon tetrachloride	56-23-5	5
Butylbenzene	104-51-8	5
Trichloroethene	79-01-6	5
Naphthalene	91-20-3	5

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
2106034	Passive indoor air stock std 50	02/02/21	Tatyana Dadiomov	07/31/21	02/02/21 07:43 by TD	
2106033	Passive indoor air Internal Standard Sto	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:39 by TD	0.0(

Analytical Standard Record

EPA Region 9 Laboratory

2106040

Description:	Passive indoor air 1	**Expires:**	07/31/21
Standard Type:	Other Solution	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:49 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	1
Bromobenzene	108-86-1	1
Benzene	71-43-2	1
4-Chlorotoluene	106-43-4	1
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	1
2,2-Dichloropropane	594-20-7	1
1,4-Dichlorobenzene	106-46-7	1
1,3-Dichloropropane	142-28-9	1
1,3-Dichlorobenzene	541-73-1	1
1,3,5-Trimethylbenzene	108-67-8	1
1,2-Dichloropropane	78-87-5	1
1,1,1,2-Tetrachloroethane	630-20-6	1
1,2-Dichlorobenzene	95-50-1	1
Bromoform	75-25-2	1
1,2-Dibromo-3-chloropropane	96-12-8	1
1,2,4-Trimethylbenzene	95-63-6	1
1,2,4-Trichlorobenzene	120-82-1	1
1,2,3-Trichloropropane	96-18-4	1
1,2,3-Trichlorobenzene	87-61-6	1
1,1-Dichloropropene	563-58-6	1
1,1-Dichloroethene	75-35-4	1
1,1-Dichloroethane	75-34-3	1
1,1,2-Trichloroethane	79-00-5	1
1,1,2,2-Tetrachloroethane	79-34-5	1
1,1,1-Trichloroethane	71-55-6	1
1,2-Dichloroethane	107-06-2	1
Isopropylbenzene	98-82-8	1
trans-1,3-Dichloropropene	10061-02-6	1
trans-1,2-Dichloroethene	156-60-5	1
Toluene-d8	2037-26-5	1
Toluene	108-88-3	1
Tetrachloroethene	127-18-4	1

Analytical Standard Record

EPA Region 9 Laboratory

2106040

tert-Butylbenzene	98-06-6	1
Styrene	100-42-5	1
sec-Butylbenzene	135-98-8	1
Propylbenzene	103-65-1	1
p-Isopropyltoluene	99-87-6	1
o-Xylene	95-47-6	1
Bromochloromethane	74-97-5	1
m&p-Xylene	179601-23-1	2
Bromodichloromethane	75-27-4	1
Hexachlorobutadiene	87-68-3	1
Ethylbenzene	100-41-4	1
Dichloromethane	75-09-2	1
Dibromomethane	74-95-3	1
cis-1,3-Dichloropropene	10061-01-5	1
cis-1,2-Dichloroethene	156-59-2	1
Chloroform	67-66-3	1
Chlorodibromomethane	124-48-1	1
Chlorobenzene	108-90-7	1
Carbon tetrachloride	56-23-5	1
Butylbenzene	104-51-8	1
Trichloroethene	79-01-6	1
Naphthalene	91-20-3	1

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
2106034	Passive indoor air stock std 50	02/02/21	Tatyana Dadiomov	07/31/21	02/02/21 07:43 by TD	0
2106033	Passive indoor air Internal Standard Sto	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:39 by TD	0.0(

Analytical Standard Record

EPA Region 9 Laboratory

2106041

Description:	Passive indoor air 0.15	**Expires:**	07/31/21
Standard Type:	Other Solution	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:49 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	0.15
Bromobenzene	108-86-1	0.15
Benzene	71-43-2	0.15
4-Chlorotoluene	106-43-4	0.15
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	0.15
2,2-Dichloropropane	594-20-7	0.15
1,4-Dichlorobenzene	106-46-7	0.15
1,3-Dichloropropane	142-28-9	0.15
1,3-Dichlorobenzene	541-73-1	0.15
1,3,5-Trimethylbenzene	108-67-8	0.15
1,2-Dichloropropane	78-87-5	0.15
1,1,1,2-Tetrachloroethane	630-20-6	0.15
1,2-Dichlorobenzene	95-50-1	0.15
Bromoform	75-25-2	0.15
1,2-Dibromo-3-chloropropane	96-12-8	0.15
1,2,4-Trimethylbenzene	95-63-6	0.15
1,2,4-Trichlorobenzene	120-82-1	0.15
1,2,3-Trichloropropane	96-18-4	0.15
1,2,3-Trichlorobenzene	87-61-6	0.15
1,1-Dichloropropene	563-58-6	0.15
1,1-Dichloroethene	75-35-4	0.15
1,1-Dichloroethane	75-34-3	0.15
1,1,2-Trichloroethane	79-00-5	0.15
1,1,2,2-Tetrachloroethane	79-34-5	0.15
1,1,1-Trichloroethane	71-55-6	0.15
1,2-Dichloroethane	107-06-2	0.15
Isopropylbenzene	98-82-8	0.15
trans-1,3-Dichloropropene	10061-02-6	0.15
trans-1,2-Dichloroethene	156-60-5	0.15
Toluene-d8	2037-26-5	0.15
Toluene	108-88-3	0.15
Tetrachloroethene	127-18-4	0.15

Analytical Standard Record

EPA Region 9 Laboratory

2106041

tert-Butylbenzene	98-06-6	0.15
Styrene	100-42-5	0.15
sec-Butylbenzene	135-98-8	0.15
Propylbenzene	103-65-1	0.15
p-Isopropyltoluene	99-87-6	0.15
o-Xylene	95-47-6	0.15
Bromochloromethane	74-97-5	0.15
m&p-Xylene	179601-23-1	0.3
Bromodichloromethane	75-27-4	0.15
Hexachlorobutadiene	87-68-3	0.15
Ethylbenzene	100-41-4	0.15
Dichloromethane	75-09-2	0.15
Dibromomethane	74-95-3	0.15
cis-1,3-Dichloropropene	10061-01-5	0.15
cis-1,2-Dichloroethene	156-59-2	0.15
Chloroform	67-66-3	0.15
Chlorodibromomethane	124-48-1	0.15
Chlorobenzene	108-90-7	0.15
Carbon tetrachloride	56-23-5	0.15
Butylbenzene	104-51-8	0.15
Trichloroethene	79-01-6	0.15
Naphthalene	91-20-3	0.15

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
2106034	Passive indoor air stock std 50	02/02/21	Tatyana Dadiomov	07/31/21	02/02/21 07:43 by TD	0.0
2106033	Passive indoor air Internal Standard Sto	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:39 by TD	0.00

Analytical Standard Record

EPA Region 9 Laboratory

2106042

Description:	Passive indoor air 0.05	**Expires:**	07/31/21
Standard Type:	Other Solution	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:50 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	0.05
Bromobenzene	108-86-1	0.05
Benzene	71-43-2	0.05
4-Chlorotoluene	106-43-4	0.05
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	0.05
2,2-Dichloropropane	594-20-7	0.05
1,4-Dichlorobenzene	106-46-7	0.05
1,3-Dichloropropane	142-28-9	0.05
1,3-Dichlorobenzene	541-73-1	0.05
1,3,5-Trimethylbenzene	108-67-8	0.05
1,2-Dichloropropane	78-87-5	0.05
1,1,1,2-Tetrachloroethane	630-20-6	0.05
1,2-Dichlorobenzene	95-50-1	0.05
Bromoform	75-25-2	0.05
1,2-Dibromo-3-chloropropane	96-12-8	0.05
1,2,4-Trimethylbenzene	95-63-6	0.05
1,2,4-Trichlorobenzene	120-82-1	0.05
1,2,3-Trichloropropane	96-18-4	0.05
1,2,3-Trichlorobenzene	87-61-6	0.05
1,1-Dichloropropene	563-58-6	0.05
1,1-Dichloroethene	75-35-4	0.05
1,1-Dichloroethane	75-34-3	0.05
1,1,2-Trichloroethane	79-00-5	0.05
1,1,2,2-Tetrachloroethane	79-34-5	0.05
1,1,1-Trichloroethane	71-55-6	0.05
1,2-Dichloroethane	107-06-2	0.05
Isopropylbenzene	98-82-8	0.05
trans-1,3-Dichloropropene	10061-02-6	0.05
trans-1,2-Dichloroethene	156-60-5	0.05
Toluene-d8	2037-26-5	0.05
Toluene	108-88-3	0.05
Tetrachloroethene	127-18-4	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2106042

tert-Butylbenzene	98-06-6	0.05
Styrene	100-42-5	0.05
sec-Butylbenzene	135-98-8	0.05
Propylbenzene	103-65-1	0.05
p-Isopropyltoluene	99-87-6	0.05
o-Xylene	95-47-6	0.05
Bromochloromethane	74-97-5	0.05
m&p-Xylene	179601-23-1	0.1
Bromodichloromethane	75-27-4	0.05
Hexachlorobutadiene	87-68-3	0.05
Ethylbenzene	100-41-4	0.05
Dichloromethane	75-09-2	0.05
Dibromomethane	74-95-3	0.05
cis-1,3-Dichloropropene	10061-01-5	0.05
cis-1,2-Dichloroethene	156-59-2	0.05
Chloroform	67-66-3	0.05
Chlorodibromomethane	124-48-1	0.05
Chlorobenzene	108-90-7	0.05
Carbon tetrachloride	56-23-5	0.05
Butylbenzene	104-51-8	0.05
Trichloroethene	79-01-6	0.05
Naphthalene	91-20-3	0.05

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
2106033	Passive indoor air Internal Standard Sto	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:39 by TD	0.0(
2106034	Passive indoor air stock std 50	02/02/21	Tatyana Dadiomov	07/31/21	02/02/21 07:43 by TD	0.(

Analytical Standard Record

EPA Region 9 Laboratory

2106043

Description:	Passive indoor air SCV	**Expires:**	06/07/21
Standard Type:	Other Solution	**Prepared:**	02/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/02/21 07:51 by TD
Vendor:	*Prepared*	**Lot Numbe**	1811012

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	5
1,1,1,2-Tetrachloroethane	630-20-6	5
Benzene	71-43-2	5
4-Chlorotoluene	106-43-4	5
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	5
2,2-Dichloropropane	594-20-7	5
1,4-Dichlorobenzene	106-46-7	5
1,3-Dichloropropane	142-28-9	5
1,3-Dichlorobenzene	541-73-1	5
1,3,5-Trimethylbenzene	108-67-8	5
1,2-Dichloropropane	78-87-5	5
Bromochloromethane	74-97-5	5
1,2-Dichlorobenzene	95-50-1	5
Bromodichloromethane	75-27-4	5
1,2-Dibromo-3-chloropropane	96-12-8	5
1,2,4-Trimethylbenzene	95-63-6	5
1,2,4-Trichlorobenzene	120-82-1	5
1,2,3-Trimethylbenzene	526-73-8	5
1,2,3-Trichloropropane	96-18-4	5
1,2,3-Trichlorobenzene	87-61-6	5
1,1-Dichloropropene	563-58-6	5
1,1-Dichloroethene	75-35-4	5
1,1-Dichloroethane	75-34-3	5
1,1,2-Trichloroethane	79-00-5	5
1,1,2,2-Tetrachloroethane	79-34-5	5
1,1,1-Trichloroethane	71-55-6	5
1,2-Dichloroethane	107-06-2	5
Isopropylbenzene	98-82-8	5
trans-1,3-Dichloropropene	10061-02-6	5
trans-1,2-Dichloroethene	156-60-5	5
Toluene-d8	2037-26-5	5
Toluene	108-88-3	5

Analytical Standard Record

EPA Region 9 Laboratory

2106043

Tetrachloroethene	127-18-4	5
tert-Butylbenzene	98-06-6	5
Styrene	100-42-5	5
sec-Butylbenzene	135-98-8	5
Propylbenzene	103-65-1	5
p-Isopropyltoluene	99-87-6	5
o-Xylene	95-47-6	5
Bromobenzene	108-86-1	5
m&p-Xylene	179601-23-1	10
Trichloroethene	79-01-6	5
Hexachlorobutadiene	87-68-3	5
Ethylbenzene	100-41-4	5
Dichloromethane	75-09-2	5
Dibromomethane	74-95-3	5
cis-1,3-Dichloropropene	10061-01-5	5
cis-1,2-Dichloroethene	156-59-2	5
Chloroform	67-66-3	5
Chlorodibromomethane	124-48-1	5
Chlorobenzene	108-90-7	5
Carbon tetrachloride	56-23-5	5
Butylbenzene	104-51-8	5
Bromoform	75-25-2	5
Naphthalene	91-20-3	5

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
2045061	VOA 502/524 VOC Mix, Stock	09/01/20	** Vendor **	06/07/21	12/07/20 09:28 by TD	0.00
2106036	Passive air Surrogate/I.S. Working solu	02/02/21	Tatyana Dadiomov	08/02/21	02/02/21 07:45 by TD	0.0

Analytical Standard Record

EPA Region 9 Laboratory

2108114

Description:	VOA 502.2 CAL 2000 MEGA MIX, Stock	**Expires:**	06/30/22
Standard Type:	Other Solution	**Prepared:**	02/19/21
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/19/21 08:55 by YNB
Vendor:	Restek	**Lot Numbe**	A0161524

RESTEK, catalog # 30431, Barcode AU012430

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

2108114

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

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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.:** A0161524

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 : June 30, 2022 **Storage:** 0°C or colder

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,1-dichloroethene		2,005.0 µg/mL	+/- 12.7130	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBK2437)		+/- 90.4487	µg/mL	Unstressed
	Purity 99%			+/- 100.3344	µg/mL	Stressed
2	Methylene chloride (dichloromethane)		2,008.1 µg/mL	+/- 12.7326	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBK7594)		+/- 90.5886	µg/mL	Unstressed
	Purity 99%			+/- 100.4895	µg/mL	Stressed
3	trans-1,2-Dichloroethene		2,006.0 µg/mL	+/- 12.7193	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)		+/- 90.4939	µg/mL	Unstressed
	Purity 99%			+/- 100.3844	µg/mL	Stressed
4	1,1-Dichloroethane		2,002.6 µg/mL	+/- 12.6977	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 580900)		+/- 90.3405	µg/mL	Unstressed
	Purity 99%			+/- 100.2143	µg/mL	Stressed
5	2,2-Dichloropropane		2,005.7 µg/mL	+/- 12.7177	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBX0066)		+/- 90.4824	µg/mL	Unstressed
	Purity 98%			+/- 100.3718	µg/mL	Stressed
6	cis-1,2-Dichloroethene		2,006.4 µg/mL	+/- 12.7221	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKCK1803)		+/- 90.5137	µg/mL	Unstressed
	Purity 99%			+/- 100.4065	µg/mL	Stressed
7	chloroform		2,007.8 µg/mL	+/- 12.7307	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBL6923)		+/- 90.5751	µg/mL	Unstressed
	Purity 99%			+/- 100.4745	µg/mL	Stressed

8	Bromochloromethane			2,010.9	µg/mL	+/-	12.7503	µg/mL	Gravimetric
	CAS #	74-97-5	(Lot 00008541)			+/-	90.7141	µg/mL	Unstressed
	Purity	98%				+/-	100.6287	µg/mL	Stressed
9	1,1,1-trichloroethane			2,002.3	µg/mL	+/-	12.6961	µg/mL	Gravimetric
	CAS #	71-55-6	(Lot 190123CG)			+/-	90.3286	µg/mL	Unstressed
	Purity	98%				+/-	100.2011	µg/mL	Stressed
10	1,1-Dichloropropene			2,008.7	µg/mL	+/-	12.7366	µg/mL	Gravimetric
	CAS #	563-58-6	(Lot 200306JLM)			+/-	90.6166	µg/mL	Unstressed
	Purity	99%				+/-	100.5206	µg/mL	Stressed
11	carbon tetrachloride			2,004.9	µg/mL	+/-	12.7120	µg/mL	Gravimetric
	CAS #	56-23-5	(Lot SHBG8938V)			+/-	90.4420	µg/mL	Unstressed
	Purity	99%				+/-	100.3269	µg/mL	Stressed
12	1,2-Dichloroethane			2,007.7	µg/mL	+/-	12.7301	µg/mL	Gravimetric
	CAS #	107-06-2	(Lot MKCJ0192)			+/-	90.5705	µg/mL	Unstressed
	Purity	99%				+/-	100.4695	µg/mL	Stressed
13	Benzene			2,005.8	µg/mL	+/-	12.7178	µg/mL	Gravimetric
	CAS #	71-43-2	(Lot SHBK7357)			+/-	90.4830	µg/mL	Unstressed
	Purity	99%				+/-	100.3724	µg/mL	Stressed
14	Trichloroethene			2,010.9	µg/mL	+/-	12.7501	µg/mL	Gravimetric
	CAS #	79-01-6	(Lot SHBJ4611)			+/-	90.7126	µg/mL	Unstressed
	Purity	99%				+/-	100.6271	µg/mL	Stressed
15	1,2-Dichloropropane			2,004.8	µg/mL	+/-	12.7117	µg/mL	Gravimetric
	CAS #	78-87-5	(Lot BCBR0882V)			+/-	90.4397	µg/mL	Unstressed
	Purity	99%				+/-	100.3244	µg/mL	Stressed
16	bromodichloromethane			2,010.4	µg/mL	+/-	12.7472	µg/mL	Gravimetric
	CAS #	75-27-4	(Lot MKCJ0238)			+/-	90.6923	µg/mL	Unstressed
	Purity	99%				+/-	100.6046	µg/mL	Stressed
17	Dibromomethane			2,011.5	µg/mL	+/-	12.7543	µg/mL	Gravimetric
	CAS #	74-95-3	(Lot 10215970)			+/-	90.7429	µg/mL	Unstressed
	Purity	99%				+/-	100.6607	µg/mL	Stressed
18	cis-1,3-Dichloropropene			2,004.6	µg/mL	+/-	12.7101	µg/mL	Gravimetric
	CAS #	10061-01-5	(Lot D26147-1217)			+/-	90.4284	µg/mL	Unstressed
	Purity	99%				+/-	100.3119	µg/mL	Stressed
19	Toluene			2,003.8	µg/mL	+/-	12.7054	µg/mL	Gravimetric
	CAS #	108-88-3	(Lot MKCH9232)			+/-	90.3946	µg/mL	Unstressed
	Purity	99%				+/-	100.2743	µg/mL	Stressed
20	trans-1,3-Dichloropropene			2,010.1	µg/mL	+/-	12.7450	µg/mL	Gravimetric
	CAS #	10061-02-6	(Lot 19420164-D1219)			+/-	90.6766	µg/mL	Unstressed
	Purity	99%				+/-	100.5871	µg/mL	Stressed
21	1,1,2-Trichloroethane			2,007.0	µg/mL	+/-	12.7256	µg/mL	Gravimetric
	CAS #	79-00-5	(Lot FGB01)			+/-	90.5390	µg/mL	Unstressed
	Purity	99%				+/-	100.4345	µg/mL	Stressed
22	1,3-Dichloropropane			2,006.0	µg/mL	+/-	12.7191	µg/mL	Gravimetric
	CAS #	142-28-9	(Lot BCBC6265)			+/-	90.4920	µg/mL	Unstressed
	Purity	99%				+/-	100.3824	µg/mL	Stressed
23	Tetrachloroethene			2,007.0	µg/mL	+/-	12.7253	µg/mL	Gravimetric
	CAS #	127-18-4	(Lot SHBJ7422)			+/-	90.5367	µg/mL	Unstressed
	Purity	99%				+/-	100.4320	µg/mL	Stressed

24	dibromochloromethane			2,005.2	µg/mL	+/-	12.7139	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)				+/-	90.4555	µg/mL	Unstressed
	Purity 99%					+/-	100.3419	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)			2,006.8	µg/mL	+/-	12.7246	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)				+/-	90.5317	µg/mL	Unstressed
	Purity 99%					+/-	100.4265	µg/mL	Stressed
26	Chlorobenzene			2,012.3	µg/mL	+/-	12.7589	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBJ0839)				+/-	90.7758	µg/mL	Unstressed
	Purity 99%					+/-	100.6972	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane			2,003.1	µg/mL	+/-	12.7010	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)				+/-	90.3639	µg/mL	Unstressed
	Purity 99%					+/-	100.2403	µg/mL	Stressed
28	Ethylbenzene			2,007.3	µg/mL	+/-	12.7274	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL0706)				+/-	90.5516	µg/mL	Unstressed
	Purity 99%					+/-	100.4485	µg/mL	Stressed
29	m-Xylene			2,009.2	µg/mL	+/-	12.7396	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBJ8743)				+/-	90.6382	µg/mL	Unstressed
	Purity 99%					+/-	100.5446	µg/mL	Stressed
30	p-Xylene			2,002.7	µg/mL	+/-	12.6983	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)				+/-	90.3441	µg/mL	Unstressed
	Purity 99%					+/-	100.2183	µg/mL	Stressed
31	o-Xylene			2,006.5	µg/mL	+/-	12.7223	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBK7739)				+/-	90.5155	µg/mL	Unstressed
	Purity 99%					+/-	100.4085	µg/mL	Stressed
32	Styrene			2,015.4	µg/mL	+/-	12.7789	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCG7519)				+/-	90.9179	µg/mL	Unstressed
	Purity 99%					+/-	100.8548	µg/mL	Stressed
33	Isopropylbenzene (cumene)			2,009.6	µg/mL	+/-	12.7419	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)				+/-	90.6544	µg/mL	Unstressed
	Purity 99%					+/-	100.5626	µg/mL	Stressed
34	bromoform			2,012.1	µg/mL	+/-	12.7580	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)				+/-	90.7690	µg/mL	Unstressed
	Purity 99%					+/-	100.6897	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane			2,012.3	µg/mL	+/-	12.7589	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot DZBLG)				+/-	90.7758	µg/mL	Unstressed
	Purity 99%					+/-	100.6972	µg/mL	Stressed
36	1,2,3-Trichloropropane			2,005.3	µg/mL	+/-	12.7147	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)				+/-	90.4614	µg/mL	Unstressed
	Purity 99%					+/-	100.3484	µg/mL	Stressed
37	n-Propylbenzene			2,003.3	µg/mL	+/-	12.7023	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCG9378)				+/-	90.3730	µg/mL	Unstressed
	Purity 99%					+/-	100.2503	µg/mL	Stressed
38	Bromobenzene			2,006.8	µg/mL	+/-	12.7244	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)				+/-	90.5299	µg/mL	Unstressed
	Purity 99%					+/-	100.4245	µg/mL	Stressed
39	1,3,5-Trimethylbenzene			2,005.8	µg/mL	+/-	12.7183	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBZ6781)				+/-	90.4866	µg/mL	Unstressed
	Purity 99%					+/-	100.3764	µg/mL	Stressed

40	2-Chlorotoluene		2,008.8	µg/mL	+/-	12.7373	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	90.6220	µg/mL	Unstressed
	Purity 99%				+/-	100.5266	µg/mL	Stressed
41	4-Chlorotoluene		2,007.7	µg/mL	+/-	12.7302	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	90.5714	µg/mL	Unstressed
	Purity 99%				+/-	100.4705	µg/mL	Stressed
42	tert-Butylbenzene		2,006.1	µg/mL	+/-	12.7201	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBD6954V)			+/-	90.4993	µg/mL	Unstressed
	Purity 99%				+/-	100.3904	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		2,006.8	µg/mL	+/-	12.7241	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC4246V)			+/-	90.5281	µg/mL	Unstressed
	Purity 99%				+/-	100.4225	µg/mL	Stressed
44	sec-Butylbenzene		2,005.5	µg/mL	+/-	12.7160	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCG5431)			+/-	90.4704	µg/mL	Unstressed
	Purity 99%				+/-	100.3584	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		2,015.9	µg/mL	+/-	12.7822	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCJ9905)			+/-	90.9414	µg/mL	Unstressed
	Purity 99%				+/-	100.8809	µg/mL	Stressed
46	1,3-Dichlorobenzene		2,004.4	µg/mL	+/-	12.7088	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	90.4194	µg/mL	Unstressed
	Purity 99%				+/-	100.3019	µg/mL	Stressed
47	1,4-Dichlorobenzene		2,010.3	µg/mL	+/-	12.7463	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	90.6856	µg/mL	Unstressed
	Purity 99%				+/-	100.5971	µg/mL	Stressed
48	n-Butylbenzene		2,009.2	µg/mL	+/-	12.7393	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	90.6364	µg/mL	Unstressed
	Purity 99%				+/-	100.5426	µg/mL	Stressed
49	1,2-Dichlorobenzene		2,003.7	µg/mL	+/-	12.7044	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	90.3878	µg/mL	Unstressed
	Purity 99%				+/-	100.2668	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,991.9	µg/mL	+/-	12.6297	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	89.8567	µg/mL	Unstressed
	Purity 97%				+/-	99.6776	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		2,009.1	µg/mL	+/-	12.7391	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	90.6346	µg/mL	Unstressed
	Purity 99%				+/-	100.5406	µg/mL	Stressed
52	Hexachlorobutadiene		2,007.3	µg/mL	+/-	12.7276	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/-	90.5531	µg/mL	Unstressed
	Purity 98%				+/-	100.4502	µg/mL	Stressed
53	Naphthalene		2,005.4	µg/mL	+/-	12.7158	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	90.4686	µg/mL	Unstressed
	Purity 99%				+/-	100.3564	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		2,008.0	µg/mL	+/-	12.7320	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	90.5841	µg/mL	Unstressed
	Purity 99%				+/-	100.4845	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

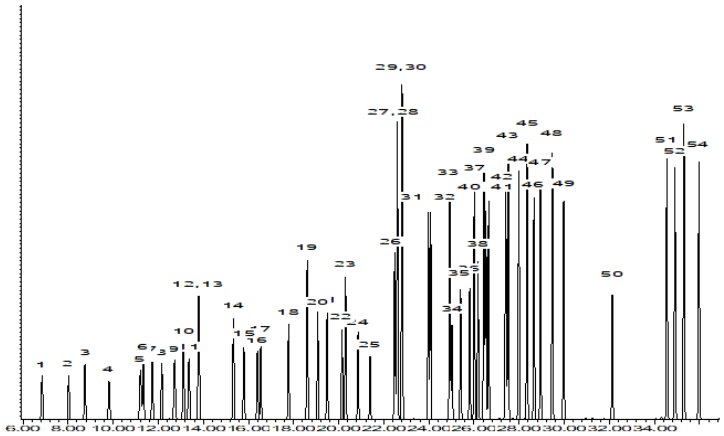
Carrier Gas:
helium-constant pressure 30 psi

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.

Cydnei L. Crust - Mix Technician

Date Mixed: 08-Jun-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 09-Jun-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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 17034 and Guide 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) -20°C or colder (Deep 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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Analytical Standard Record

EPA Region 9 Laboratory

2117016

Description:	passive air WORKING BFB 50 mg/L	**Expires:**	10/20/21
Standard Type:	Other Solution	**Prepared:**	04/20/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	5	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/20/21 12:28 by TD
Vendor:	*Prepared*	**Lot Numbe**	A0162498

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene	460-00-4	50

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2039025	VOA BFB tuning mix, stock STD.	09/24/20	** Vendor **	10/31/25	04/20/21 12:28 by TD	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2123016

Description:	Passive indoor air MRL Spike	**Expires:**	12/02/21
Standard Type:	Analyte Spike	**Prepared:**	06/02/21
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	06/02/21 08:02 by TD
Vendor:	*Prepared*	**Lot Numbe**	A0150913

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

2123016

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)
2108114	VOA 502.2 CAL 2000 MEGA MIX, St	02/19/21	** Vendor **	12/02/21	06/02/21 08:01 by TD	0.02