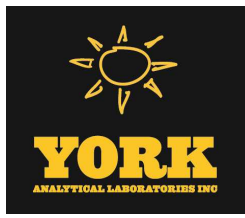


APPENDIX I
Post Remediation Off-site Groundwater Sampling
Laboratory Data

Table of Contents for York SDG 23J1154

23J1154 York QA Summary Report.....	1
Introduction and Sample Cross Reference.....	2
General Notes Relating to this Report.....	3
Sample Results.....	4
PMW01_S_101723.....	4
PMW02_S_101723.....	7
PMW01_D_101723.....	10
PMW02_D_101723.....	13
GWDUP01_101723.....	16
FB01_101723.....	19
TB01_101723.....	22
Case Narrative.....	25
Quality Batch Summary.....	37
QA/QC Summary Data.....	38
Volatile Organic Compounds by GC/MS EPA 8260C.....	38
Chains of Custody.....	53
23J1154 Data Package.....	56
23J1154 VOA Data.....	56
VOA QC Summary.....	58
Surrogate Summary Seq: S3J2001.....	59
Surrogate Summary Seq: S3J2002.....	61
Matrix Spike Results - Batch: BJ31344.....	62
Blank Spike Results - Batch: BJ31344.....	68
Blank Spike Results - Batch: BJ31371.....	74
Batch Summary - Batch: BJ31344.....	80
Batch Summary - Batch: BJ31371.....	81
Blank Results - Batch: BJ31344.....	82
Blank Results - Batch: BJ31371.....	85
Mass Spec Tune - Seq: S3I2745.....	88
Mass Spec Tune - Seq: S3J2001.....	89
Mass Spec Tune - Seq: S3J2002.....	90
Sequence Summary - Seq: S3I2745.....	91
Sequence Summary - Seq: S3J2001.....	92
Sequence Summary - Seq: S3J2002.....	93
Internal Std. Summary Seq: S3I2745.....	94

Internal Std. Summary Seq: S3J2001.....	96
Internal Std. Summary Seq: S3J2002.....	98
Hold Time Summary.....	99
Reporting Limits Summary.....	100
VOA Sample Data.....	102
Sample Results and Raw Data.....	103
PMW01_S_101723.....	103
PMW01_S_101723.....	115
PMW02_S_101723.....	125
PMW02_S_101723.....	137
PMW01_D_101723.....	146
PMW01_D_101723.....	161
PMW02_D_101723.....	171
GWDUP01_101723.....	182
GWDUP01_101723.....	195
FB01_101723.....	204
TB01_101723.....	214
VOA Standards Data.....	222
Initial Calibration - Cal: SI30036.....	223
Initial Calibration Raw Data - Cal: SI30036.....	232
Initial Calibration Check - Cal: SI30036.....	259
Continuing Calibration Check - Seq: S3J2001.....	265
Continuing Calibration Check - Seq: S3J2002.....	271
VOA Raw QC Data.....	277
Mass Spec Tune Raw Data - Seq: S3I2745.....	278
Mass Spec Tune Raw Data - Seq: S3J2001.....	279
Mass Spec Tune Raw Data - Seq: S3J2002.....	280
Blank Raw Data - Batch: BJ31344.....	281
Blank Raw Data - Batch: BJ31371.....	291
Matrix Spike Raw Data - Batch: BJ31344.....	302
Blank Spike Raw Data - Batch: BJ31344.....	309
Blank Spike Raw Data - Batch: BJ31371.....	316
Preparation Benchsheets - Batch: BJ31344.....	323
Preparation Benchsheets - Batch: BJ31371.....	325



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Albert Tashji

Report Date: 10/24/2023

Client Project ID: 170199901

York Project (SDG) No.: 23J1154

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

Report Date: 10/24/2023
Client Project ID: 170199901
York Project (SDG) No.: 23J1154

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Albert Tashji

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 18, 2023 and listed below. The project was identified as your project: **170199901**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
23J1154-01	PMW01_S_101723	Ground Water	10/17/2023	10/18/2023
23J1154-02	PMW02_S_101723	Ground Water	10/17/2023	10/18/2023
23J1154-03	PMW01_D_101723	Ground Water	10/17/2023	10/18/2023
23J1154-04	PMW02_D_101723	Ground Water	10/17/2023	10/18/2023
23J1154-05	GWDUP01_101723	Ground Water	10/17/2023	10/18/2023
23J1154-06	FB01_101723	Water	10/17/2023	10/18/2023
23J1154-07	TB01_101723	Water	10/17/2023	10/18/2023

General Notes for York Project (SDG) No.: 23J1154

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 10/24/2023

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: PMW01_S_101723

York Sample ID: 23J1154-01

York Project (SDG) No.

23J1154

Client Project ID

170199901

Matrix

Ground Water

Collection Date/Time

October 17, 2023 3:35 pm

Date Received

10/18/2023

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-35-4	1,1-Dichloroethylene	5.05		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	35.3	80.0	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			



Sample Information

Client Sample ID: PMW01_S_101723

York Sample ID: 23J1154-01

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 3:35 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	1.36		ug/L	1.34	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
71-43-2	Benzene	0.580		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-25-2	Bromoform	ND	CCVE, QL-02	ug/L	0.163	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
156-59-2	cis-1,2-Dichloroethylene	2420		ug/L	5.88	10.0	20	EPA 8260C	10/19/2023 06:17	10/20/2023 01:38	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
110-82-7	Cyclohexane	ND	ICVE, QL-02	ug/L	0.491	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			



Sample Information

Client Sample ID: PMW01_S_101723

York Sample ID: 23J1154-01

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 3:35 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
127-18-4	Tetrachloroethylene	1.63		ug/L	0.239	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
156-60-5	trans-1,2-Dichloroethylene	36.4		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-01-6	Trichloroethylene	8.23		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-01-4	Vinyl Chloride	110		ug/L	0.469	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:33	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	109 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	102 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.2 %	79-122								



Sample Information

Client Sample ID: PMW02_S_101723

York Sample ID: 23J1154-02

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 12:30 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-35-4	1,1-Dichloroethylene	1.61		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	35.3	80.0	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
67-64-1	Acetone	3.68	CCVE, QL-02	ug/L	1.34	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			



Sample Information

Client Sample ID: PMW02_S_101723

York Sample ID: 23J1154-02

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 12:30 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-25-2	Bromoform	ND	CCVE, QL-02	ug/L	0.163	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
67-66-3	Chloroform	0.530		ug/L	0.243	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
156-59-2	cis-1,2-Dichloroethylene	1310		ug/L	2.94	5.00	10	EPA 8260C	10/19/2023 06:17	10/20/2023 04:06	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
110-82-7	Cyclohexane	ND	ICVE, QL-02	ug/L	0.491	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			



Sample Information

Client Sample ID: PMW02_S_101723

York Sample ID: 23J1154-02

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 12:30 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440											
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440											
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
127-18-4	Tetrachloroethylene	ND		ug/L	0.239	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
156-60-5	trans-1,2-Dichloroethylene	5.73		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
79-01-6	Trichloroethylene	0.660		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-01-4	Vinyl Chloride	84.7		ug/L	0.469	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C	10/19/2023 06:15	10/19/2023 15:22	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	103 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	96.3 %	79-122								



Sample Information

Client Sample ID: PMW01_D_101723

York Sample ID: 23J1154-03

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 2:20 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-35-4	1,1-Dichloroethylene	1.90		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	35.3	80.0	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
591-78-6	2-Hexanone	0.690		ug/L	0.320	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
67-64-1	Acetone	6.46	QL-02, CCVE	ug/L	1.34	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			



Sample Information

Client Sample ID: PMW01_D_101723

York Sample ID: 23J1154-03

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 2:20 pm

Date Received
10/18/2023

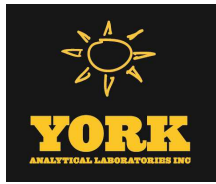
VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-25-2	Bromoform	ND	CCVE, QL-02	ug/L	0.163	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
156-59-2	cis-1,2-Dichloroethylene	705		ug/L	2.94	5.00	10	EPA 8260C	10/19/2023 06:17	10/20/2023 04:30	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
110-82-7	Cyclohexane	ND	ICVE, QL-02	ug/L	0.491	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
79-20-9	Methyl acetate	2.80		ug/L	0.442	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			



Sample Information

Client Sample ID: PMW01_D_101723

York Sample ID: 23J1154-03

York Project (SDG) No.

23J1154

Client Project ID

170199901

Matrix

Ground Water

Collection Date/Time

October 17, 2023 2:20 pm

Date Received

10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
75-09-2	Methylene chloride	2.01		ug/L	0.397	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440									
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440									
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
127-18-4	Tetrachloroethylene	18.3		ug/L	0.239	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
156-60-5	trans-1,2-Dichloroethylene	7.92		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
79-01-6	Trichloroethylene	47.7		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
75-01-4	Vinyl Chloride	61.2		ug/L	0.469	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C	10/19/2023 06:15	10/19/2023 16:12	JTG
		Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440									
		Surrogate Recoveries									
		Result		Acceptance Range							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %		69-130							
2037-26-5	Surrogate: SURRE: Toluene-d8	103 %		81-117							
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.9 %		79-122							



Sample Information

Client Sample ID: PMW02_D_101723

York Sample ID: 23J1154-04

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 11:20 am

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	35.3	80.0	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
67-64-1	Acetone	2.16	QL-02, CCVE	ug/L	1.34	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			



Sample Information

Client Sample ID: PMW02_D_101723

York Sample ID: 23J1154-04

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 11:20 am

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-25-2	Bromoform	ND	CCVE, QL-02	ug/L	0.163	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
156-59-2	cis-1,2-Dichloroethylene	2.07		ug/L	0.294	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
110-82-7	Cyclohexane	ND	ICVE, QL-02	ug/L	0.491	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			



Sample Information

Client Sample ID: PMW02_D_101723

York Sample ID: 23J1154-04

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 11:20 am

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-09-2	Methylene chloride	0.620		ug/L	0.397	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-68-04440			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
127-18-4	Tetrachloroethylene	ND		ug/L	0.239	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:01	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005			
	Surrogate Recoveries	Result		Acceptance Range							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %		69-130							
2037-26-5	Surrogate: SURR: Toluene-d8	103 %		81-117							
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.8 %		79-122							



Sample Information

Client Sample ID: GWDUP01_101723

York Sample ID: 23J1154-05

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 3:00 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-35-4	1,1-Dichloroethylene	2.55		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	35.3	80.0	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
67-64-1	Acetone	3.51	CCVE, QL-02	ug/L	1.34	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			



Sample Information

Client Sample ID: GWDUP01_101723

York Sample ID: 23J1154-05

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Ground Water

Collection Date/Time
October 17, 2023 3:00 pm

Date Received
10/18/2023

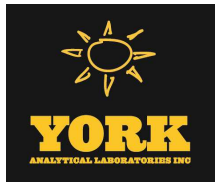
VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-25-2	Bromoform	ND	CCVE, QL-02	ug/L	0.163	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-15-0	Carbon disulfide	0.450		ug/L	0.362	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
67-66-3	Chloroform	0.670		ug/L	0.243	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
156-59-2	cis-1,2-Dichloroethylene	1450		ug/L	2.94	5.00	10	EPA 8260C	10/19/2023 06:17	10/20/2023 05:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
110-82-7	Cyclohexane	ND	ICVE, QL-02	ug/L	0.491	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			



Sample Information

Client Sample ID: GWDUP01_101723

York Sample ID: 23J1154-05

York Project (SDG) No.

23J1154

Client Project ID

170199901

Matrix

Ground Water

Collection Date/Time

October 17, 2023 3:00 pm

Date Received

10/18/2023

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440											
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440											
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
127-18-4	Tetrachloroethylene	ND		ug/L	0.239	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
156-60-5	trans-1,2-Dichloroethylene	9.51		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
79-01-6	Trichloroethylene	0.980		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-01-4	Vinyl Chloride	131		ug/L	0.469	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C	10/19/2023 06:15	10/19/2023 17:51	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005											
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	109 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	103 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	97.2 %	79-122								



Sample Information

Client Sample ID: FB01_101723

York Sample ID: 23J1154-06

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Water

Collection Date/Time
October 17, 2023 3:45 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	35.3	80.0	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
67-64-1	Acetone	4.46	CCVE, QL-02	ug/L	1.34	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			



Sample Information

Client Sample ID: FB01_101723

York Sample ID: 23J1154-06

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Water

Collection Date/Time
October 17, 2023 3:45 pm

Date Received
10/18/2023

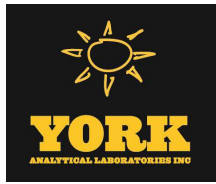
VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-25-2	Bromoform	ND	CCVE, QL-02	ug/L	0.163	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
110-82-7	Cyclohexane	ND	ICVE, QL-02	ug/L	0.491	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											



Sample Information

Client Sample ID: FB01_101723

York Sample ID: 23J1154-06

York Project (SDG) No.

23J1154

Client Project ID

170199901

Matrix

Water

Collection Date/Time

October 17, 2023 3:45 pm

Date Received

10/18/2023

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440											
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440											
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
127-18-4	Tetrachloroethylene	ND		ug/L	0.239	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C	10/19/2023 06:15	10/19/2023 14:09	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005											
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	105 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	102 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	99.7 %	79-122								



Sample Information

Client Sample ID: TB01_101723

York Sample ID: 23J1154-07

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Water

Collection Date/Time
October 17, 2023 3:50 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	35.3	80.0	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
67-64-1	Acetone	1.85		ug/L	1.34	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			



Sample Information

Client Sample ID: TB01_101723

York Sample ID: 23J1154-07

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Water

Collection Date/Time
October 17, 2023 3:50 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-25-2	Bromoform	ND	CCVE, QL-02	ug/L	0.163	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
110-82-7	Cyclohexane	ND	ICVE, QL-02	ug/L	0.491	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADE			



Sample Information

Client Sample ID: TB01_101723

York Sample ID: 23J1154-07

York Project (SDG) No.
23J1154

Client Project ID
170199901

Matrix
Water

Collection Date/Time
October 17, 2023 3:50 pm

Date Received
10/18/2023

VOA, 8260 LOW MASTER

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-09-2	Methylene chloride	0.750		ug/L	0.397	2.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440											
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-04440											
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
127-18-4	Tetrachloroethylene	ND		ug/L	0.239	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04440											
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C	10/19/2023 06:15	10/19/2023 13:19	JTG
Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT005											
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	103 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %	79-122								



York Narrative Contents Summary

This Work Order Narrative includes the following items for full review of any quality issues encountered with samples and their analyses for the parameters requested:

1. Sample Receipt Information, including a Sample Summary which cross references your sample ID with York Analytical sample ID, identifying the matrix and Date/Time collected and received at York.
2. Analysis Methodologies employed for the work order
3. Any Sample Issues encountered such as Holding time exceedances, improper containers/preservation, or any related issue with sample integrity
4. Specific Analysis Findings in order: Volatiles, Semi-Volatiles, Pesticides/PCBs, Herbicides, other GC parameters, Metals, Mercury, Wet Chemistry.
5. Analysis Findings Include:
 - Analyte qualifier summary
 - Samples and associated Calibration Curve(s)
 - Calibration Outliers Discussion/Tabular presentation and affected samples
 - Initial Calibration Verification (ICV) information
 - Batch QC Sample Performance (Blanks, Blank Spikes (BS), MS/MSD)
 - Internal Standard Performance
 - Surrogate Performance
 - Example Calculations

Work Order Narrative

York Analytical Work Order No.: 23J1154

Client : Langan Engineering & Environmental Services (NYC)

Client Project ID : 170199901

Prepared for : Albert Tashji

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 10/18/2023 7:00 PM

7 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was (> 6 °C)
and documented as: {17.7}°C

Sample Summary

<u>SampleName</u>	<u>Lab Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
PMW01_S_101723	23J1154-01	Water	10/17/2023 3:35 PM	10/18/2023 7:00 PM
PMW02_S_101723	23J1154-02	Water	10/17/2023 12:30 PM	10/18/2023 7:00 PM
PMW01_D_101723	23J1154-03	Water	10/17/2023 2:20 PM	10/18/2023 7:00 PM
PMW02_D_101723	23J1154-04	Water	10/17/2023 11:20 AM	10/18/2023 7:00 PM
GWDUP01_101723	23J1154-05	Water	10/17/2023 3:00 PM	10/18/2023 7:00 PM
FB01_101723	23J1154-06	Water	10/17/2023 3:45 PM	10/18/2023 7:00 PM
TB01_101723	23J1154-07	Water	10/17/2023 3:50 PM	10/18/2023 7:00 PM

WorkOrder Comments

Samples were iced at the time of pickup by the courier, but had insufficient time to achieve an acceptable temperature per method requirements before receipt at the lab.

York Analytical Work Order Narrative

2.0 Methodology

<u>Analysis Class</u>	<u>Preparation Method</u>	<u>Analysis Methodology</u>
VOA	EPA 5030B	EPA 8260C

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

York Analytical Work Order Narrative

Qualifier Summary Report:

SampleID	Method	LabNumber	Matrix	Analyte	Qualifier
PMW01_S_1017 23	EPA 8260C	23J1154-01	Water	1,4-Dioxane	CCVE
PMW01_S_1017 23	EPA 8260C	23J1154-01	Water	Acrolein	ICVE
PMW01_S_1017 23	EPA 8260C	23J1154-01	Water	Bromoform	CCVE
PMW01_S_1017 23	EPA 8260C	23J1154-01	Water	Bromoform	QL-02
PMW01_S_1017 23	EPA 8260C	23J1154-01	Water	Bromomethane	CCVE
PMW01_S_1017 23	EPA 8260C	23J1154-01	Water	Chloromethane	CCVE
PMW01_S_1017 23	EPA 8260C	23J1154-01	Water	Cyclohexane	ICVE
PMW01_S_1017 23	EPA 8260C	23J1154-01	Water	Cyclohexane	QL-02
PMW01_S_1017 23	EPA 8260C	23J1154-01	Water	Dichlorodifluoromethane	CCVE
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	1,4-Dioxane	CCVE
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Acetone	QL-02
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Acetone	CCVE
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Acrolein	ICVE
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Bromoform	CCVE
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Bromoform	QL-02
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Bromomethane	CCVE
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Chloromethane	CCVE
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Cyclohexane	ICVE
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Cyclohexane	QL-02
PMW02_S_1017 23	EPA 8260C	23J1154-02	Water	Dichlorodifluoromethane	CCVE
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	1,4-Dioxane	CCVE
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Acetone	QL-02
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Acetone	CCVE
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Acrolein	ICVE
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Bromoform	QL-02

York Analytical Work Order Narrative

Qualifier Summary Report:

SampleID	Method	LabNumber	Matrix	Analyte	Qualifier
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Bromoform	CCVE
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Bromomethane	CCVE
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Chloromethane	CCVE
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Cyclohexane	QL-02
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Cyclohexane	ICVE
PMW01_D_1017 23	EPA 8260C	23J1154-03	Water	Dichlorodifluoromethane	CCVE
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	1,4-Dioxane	CCVE
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Acetone	CCVE
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Acetone	QL-02
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Acrolein	ICVE
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Bromoform	QL-02
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Bromoform	CCVE
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Bromomethane	CCVE
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Chloromethane	CCVE
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Cyclohexane	ICVE
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Cyclohexane	QL-02
PMW02_D_1017 23	EPA 8260C	23J1154-04	Water	Dichlorodifluoromethane	CCVE
GWDUP01_1017 23	EPA 8260C	23J1154-05	Water	1,4-Dioxane	CCVE
GWDUP01_1017 23	EPA 8260C	23J1154-05	Water	Acetone	QL-02
GWDUP01_1017 23	EPA 8260C	23J1154-05	Water	Acetone	CCVE
GWDUP01_1017 23	EPA 8260C	23J1154-05	Water	Acrolein	ICVE
GWDUP01_1017 23	EPA 8260C	23J1154-05	Water	Bromoform	CCVE
GWDUP01_1017 23	EPA 8260C	23J1154-05	Water	Bromoform	QL-02
GWDUP01_1017 23	EPA 8260C	23J1154-05	Water	Bromomethane	CCVE
GWDUP01_1017 23	EPA 8260C	23J1154-05	Water	Chloromethane	CCVE
GWDUP01_1017 23	EPA 8260C	23J1154-05	Water	Cyclohexane	ICVE

York Analytical Work Order Narrative

Qualifier Summary Report:

SampleID	Method	LabNumber	Matrix	Analyte	Qualifier
GWDUP01_101723	EPA 8260C	23J1154-05	Water	Cyclohexane	QL-02
GWDUP01_101723	EPA 8260C	23J1154-05	Water	Dichlorodifluoromethane	CCVE
FB01_101723	EPA 8260C	23J1154-06	Water	1,4-Dioxane	CCVE
FB01_101723	EPA 8260C	23J1154-06	Water	Acetone	CCVE
FB01_101723	EPA 8260C	23J1154-06	Water	Acetone	QL-02
FB01_101723	EPA 8260C	23J1154-06	Water	Acrolein	ICVE
FB01_101723	EPA 8260C	23J1154-06	Water	Bromoform	CCVE
FB01_101723	EPA 8260C	23J1154-06	Water	Bromoform	QL-02
FB01_101723	EPA 8260C	23J1154-06	Water	Bromomethane	CCVE
FB01_101723	EPA 8260C	23J1154-06	Water	Chloromethane	CCVE
FB01_101723	EPA 8260C	23J1154-06	Water	Cyclohexane	ICVE
FB01_101723	EPA 8260C	23J1154-06	Water	Cyclohexane	QL-02
FB01_101723	EPA 8260C	23J1154-06	Water	Dichlorodifluoromethane	CCVE
TB01_101723	EPA 8260C	23J1154-07	Water	1,4-Dioxane	CCVE
TB01_101723	EPA 8260C	23J1154-07	Water	Acrolein	ICVE
TB01_101723	EPA 8260C	23J1154-07	Water	Bromoform	CCVE
TB01_101723	EPA 8260C	23J1154-07	Water	Bromoform	QL-02
TB01_101723	EPA 8260C	23J1154-07	Water	Bromomethane	CCVE
TB01_101723	EPA 8260C	23J1154-07	Water	Chloromethane	CCVE
TB01_101723	EPA 8260C	23J1154-07	Water	Cyclohexane	ICVE
TB01_101723	EPA 8260C	23J1154-07	Water	Cyclohexane	QL-02
TB01_101723	EPA 8260C	23J1154-07	Water	Dichlorodifluoromethane	CCVE
	EPA 8260C	S3I2745-SCV1	Water	Acrolein	ICVE
	EPA 8260C	S3I2745-SCV1	Water	Cyclohexane	ICVE
	EPA 8260C	S3I2745-SCV1	Water	Dichlorodifluoromethane	ICVE

Qualifier Definitions :

CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 8260C

No problems were encountered with analysis of the samples, other than detailed below.

Initial Calibration : SI30036

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
SI30036	S3I2745	S3I2745	Secondary Cal Check	S3I2745-SCV1	QVOA6	QV6251907.D
SI30036	S3J2001	S3J2001	Calibration Check	S3J2001-CCV1	QVOA6	QV6252576.D
SI30036	BJ31344	S3J2001	LCS	BJ31344-BS1	QVOA6	QV6252577.D
SI30036	BJ31344	S3J2001	LCS Dup	BJ31344-BSD1	QVOA6	QV6252578.D
SI30036	BJ31344	S3J2001	Blank	BJ31344-BLK1	QVOA6	QV6252581.D
SI30036	BJ31344	S3J2001	TB01_101723	23J1154-07	QVOA6	QV6252583.D
SI30036	BJ31344	S3J2001	FB01_101723	23J1154-06	QVOA6	QV6252585.D
SI30036	BJ31344	S3J2001	PMW01_S_101723	23J1154-01	QVOA6	QV6252586.D
SI30036	BJ31344	S3J2001	PMW02_S_101723	23J1154-02	QVOA6	QV6252588.D
SI30036	BJ31344	S3J2001	PMW01_D_101723	23J1154-03	QVOA6	QV6252590.D
SI30036	BJ31344	S3J2001	PMW02_D_101723	23J1154-04	QVOA6	QV6252592.D
SI30036	BJ31344	S3J2001	GWDUP01_101723	23J1154-05	QVOA6	QV6252594.D
SI30036	BJ31344	S3J2001	PMW02_D_101723MS 1	BJ31344-MS1	QVOA6	QV6252596.D
SI30036	BJ31344	S3J2001	PMW02_D_101723MS D1	BJ31344-MSD1	QVOA6	QV6252598.D
SI30036	S3J2002	S3J2002	Calibration Check	S3J2002-CCV1	QVOA6	QV6252603.D
SI30036	BJ31371	S3J2002	LCS	BJ31371-BS1	QVOA6	QV6252604.D
SI30036	BJ31371	S3J2002	LCS Dup	BJ31371-BSD1	QVOA6	QV6252605.D
SI30036	BJ31371	S3J2002	Blank	BJ31371-BLK1	QVOA6	QV6252607.D
SI30036	BJ31371	S3J2002	PMW01_S_101723	23J1154-01RE1	QVOA6	QV6252613.D
SI30036	BJ31371	S3J2002	PMW02_S_101723	23J1154-02RE1	QVOA6	QV6252619.D
SI30036	BJ31371	S3J2002	PMW01_D_101723	23J1154-03RE1	QVOA6	QV6252620.D
SI30036	BJ31371	S3J2002	GWDUP01_101723	23J1154-05RE1	QVOA6	QV6252622.D

York Analytical Work Order Narrative

4.0 Analysis Issues

Initial calibration for EPA 8260C exceeded method guidelines.

Calibration	Intrument	Calibration Date	File ID
SI30036	QVOA6	9/26/2023 4:40:32 PM	QV6251894.D

Analyte	RSD%	RSDLim	<MinRRE	RRFLim	CorrCoeff	CCOut	SIM	CAL curve
1,2-Dibromo-3-chloropropane		20	0.0299	0.05				QR0
1,4-Dioxane		20	0.0003	0.05				QR0
2-Butanone	12.26	20	0.0296	0.05				Avg
2-Hexanone	15.49	20	0.0336	0.05				Avg
Acrolein		20	0.0305	0.05				QR0
tert-Butyl alcohol (TBA)		20	0.0245	0.05				QR0

The following QC and or client samples were affected:

SampleName	LabNumber	SourceSample	File ID
Secondary Cal Check	S3I2745-SCV1		QV6251907.D
Calibration Check	S3J2001-CCV1		QV6252576.D
LCS	BJ31344-BS1		QV6252577.D
LCS Dup	BJ31344-BSD1		QV6252578.D
PMW01_D_101723	23J1154-03		QV6252590.D
Matrix Spike	BJ31344-MS1	PMW02_D_101723	QV6252596.D
Matrix Spike Dup	BJ31344-MSD1	PMW02_D_101723	QV6252598.D
Calibration Check	S3J2002-CCV1		QV6252603.D
LCS	BJ31371-BS1		QV6252604.D
LCS Dup	BJ31371-BSD1		QV6252605.D

York Analytical Work Order Narrative

EPA 8260C

Initial Calibration Verification-

The initial calibration verification for analytical method EPA 8260C

all target compounds recovered within method limits with the following exceptions:

Calibration ID	Lab Number	Analyte	True Value	Result	Recovery%	Limits
SI30036	S3I2745-SCV1	Acrolein	10.0	5.86	58.6	70 - 130
SI30036	S3I2745-SCV1	Cyclohexane	10.0	5.12	51.2	70 - 130
SI30036	S3I2745-SCV1	Dichlorodifluoromethane	10.0	15.4	154	70 - 130

The following QC and or client samples were affected:

LabNumber	SampleName	File ID
S3J2001-CCV1	Calibration Check	QV6252576.D
BJ31344-BS1	LCS	QV6252577.D
BJ31344-BSD1	LCS Dup	QV6252578.D
BJ31344-MS1	Matrix Spike	QV6252596.D
BJ31344-MSD1	Matrix Spike Dup	QV6252598.D
S3J2002-CCV1	Calibration Check	QV6252603.D
BJ31371-BS1	LCS	QV6252604.D
BJ31371-BSD1	LCS Dup	QV6252605.D

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
SI30036	S3J2001	S3J2001-CCV1	QV6252576.D	10/19/23 10:00
SI30036	S3J2002	S3J2002-CCV1	QV6252603.D	10/19/23 21:32

The continuing calibration verification exceeded method limits for the following analytes.

Calibration	LabNumber	Analyte	Units	Result	TrueVal	REC%	Limits	File ID
SI30036	S3J2001-CCV1	1,4-Dioxane	ug/L	106	200	53.1	80 120	QV6252576.D
SI30036	S3J2001-CCV1	Acetone	ug/L	35.6	10.0	356	80 120	QV6252576.D
SI30036	S3J2001-CCV1	Acrolein	ug/L	8.25	2.50	330	80 120	QV6252576.D
SI30036	S3J2001-CCV1	Bromoform	ug/L	7.36	10.0	73.6	80 120	QV6252576.D
SI30036	S3J2001-CCV1	Bromomethane	ug/L	2.83	10.0	28.3	80 120	QV6252576.D
SI30036	S3J2001-CCV1	Chloromethane	ug/L	6.48	10.0	64.8	80 120	QV6252576.D
SI30036	S3J2001-CCV1	Dichlorodifluoromethane	ug/L	5.62	10.0	56.2	80 120	QV6252576.D
SI30036	S3J2002-CCV1	1,4-Dioxane	ug/L	111	200	55.6	80 120	QV6252603.D
SI30036	S3J2002-CCV1	Acetone	ug/L	7.45	10.0	74.5	80 120	QV6252603.D
SI30036	S3J2002-CCV1	Acrolein	ug/L	8.37	2.50	335	80 120	QV6252603.D
SI30036	S3J2002-CCV1	Bromoform	ug/L	7.43	10.0	74.3	80 120	QV6252603.D
SI30036	S3J2002-CCV1	Bromomethane	ug/L	3.81	10.0	38.1	80 120	QV6252603.D
SI30036	S3J2002-CCV1	Chloromethane	ug/L	6.45	10.0	64.5	80 120	QV6252603.D
SI30036	S3J2002-CCV1	Dichlorodifluoromethane	ug/L	5.51	10.0	55.1	80 120	QV6252603.D

The following QC and or client samples were affected:

Calibration	Sequence	LabNumber	SampleName	Source Sample	File ID
SI30036	S3J2001	BJ31344-BS1	LCS		QV6252577.D
SI30036	S3J2001	BJ31344-BSD1	LCS Dup		QV6252578.D
SI30036	S3J2001	23J1154-07	TB01_101723		QV6252583.D
SI30036	S3J2001	23J1154-06	FB01_101723		QV6252585.D
SI30036	S3J2001	23J1154-01	PMW01_S_101723		QV6252586.D
SI30036	S3J2001	23J1154-02	PMW02_S_101723		QV6252588.D
SI30036	S3J2001	23J1154-03	PMW01_D_101723		QV6252590.D
SI30036	S3J2001	23J1154-04	PMW02_D_101723		QV6252592.D

York Analytical Work Order Narrative

SI30036	S3J2001	23J1154-05	GWDUP01_101723		QV6252594.D
SI30036	S3J2001	BJ31344-MS1	Matrix Spike	PMW02_D_1017	QV6252596.D
SI30036	S3J2001	BJ31344-MSD1	Matrix Spike Dup	PMW02_D_1017	QV6252598.D
SI30036	S3J2002	BJ31371-BS1	LCS		QV6252604.D
SI30036	S3J2002	BJ31371-BSD1	LCS Dup		QV6252605.D

EPA 8260C

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

	Batch	Sequence	Instrument	Blank	FileID
VOA	BJ31344	S3J2001	QVOA6	BJ31344-BLK1	QV6252581.D
VOA	BJ31371	S3J2002	QVOA6	BJ31371-BLK1	QV6252607.D

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID				
SI30036	S3J2001	BJ31344-BS1	LCS	QV6252577.D				
SI30036	S3J2001	BJ31344-BSD1	LCS Dup	QV6252578.D				
SI30036	S3J2002	BJ31371-BS1	LCS	QV6252604.D				
SI30036	S3J2002	BJ31371-BSD1	LCS Dup	QV6252605.D				
Sequence	SampleName	LabNumber	Analyte	DupRec%	Rec%	RPD%	REC Limits	RPD Limit
S3J2001	LCS	BJ31344-BS1	Acetone		321		14 - 150	
S3J2001	LCS	BJ31344-BS1	Bromoform		70		78 - 133	
S3J2001	LCS	BJ31344-BS1	Cyclohexane		49.9		63 - 149	
S3J2001	LCS Dup	BJ31344-BSD1	Acetone	321	398	21.4	14 - 150	30
S3J2001	LCS Dup	BJ31344-BSD1	Cyclohexane	49.9	47.5	4.93	63 - 149	30
S3J2002	LCS	BJ31371-BS1	Cyclohexane		50.7		63 - 149	
S3J2002	LCS Dup	BJ31371-BSD1	Bromoform	78.2	77.7	0.641	78 - 133	30
S3J2002	LCS Dup	BJ31371-BSD1	Cyclohexane	50.7	48.9	3.61	63 - 149	30

The following samples were affected:

Batch	LabNumber	SampleName	SourceSample
BJ31344	23J1154-01	PMW01_S_101723	
BJ31344	23J1154-02	PMW02_S_101723	
BJ31344	23J1154-03	PMW01_D_101723	
BJ31344	23J1154-04	PMW02_D_101723	
BJ31344	23J1154-05	GWDUP01_101723	
BJ31344	23J1154-06	FB01_101723	
BJ31344	23J1154-07	TB01_101723	
BJ31344	BJ31344-MS1	Matrix Spike	PMW02_D_101723
BJ31344	BJ31344-MSD1	Matrix Spike Dup	PMW02_D_101723

York Analytical Work Order Narrative

EPA 8260C

Matrix Spike, Matrix Spike Duplicate and/or Sample Duplicate-

MS/MSD/Duplicate analysis was performed on sample;

AnaClass	Cal	Batch	Sequence	SampleName	Sample	SourceSample	LabNumber
VOA	SI30036	BJ31344	S3J2001	PMW02_D_101723MS1	23J1154-04	PMW02_D_101723	BJ31344-MS1
VOA	SI30036	BJ31344	S3J2001	PMW02_D_101723MSD1	23J1154-04	PMW02_D_101723	BJ31344-MSD1

Sequence	SourceSample	LabNumber	Analyte	Units	DupRec%	Rec%	RPD	Limits	RPD Lim
S3J2001	PMW02_D_101723	BJ31344-MS1	Cyclohexane	ug/L		52.5		70 - 130	
S3J2001	PMW02_D_101723	BJ31344-MSD1	Cyclohexane	ug/L	52.5	52.9	0.759	70 - 130	30

Dilutions:

SpecificMethod	Batch	SampleName	LabNumber	Dilution
EPA 8260C	BJ31371	PMW01_S_101723	23J1154-01RE1	20
EPA 8260C	BJ31371	PMW02_S_101723	23J1154-02RE1	10
EPA 8260C	BJ31371	PMW01_D_101723	23J1154-03RE1	10
EPA 8260C	BJ31371	GWDUP01_101723	23J1154-05RE1	10

EPA 8260C

Internal Standards / Surrogates

Internal Standards Issues: No issues were encountered.

Surrogate Issues: No issues were encountered.

York Analytical Work Order Narrative

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

1. Volatiles in Air-ppbv

C_x (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$C_x = \frac{(A_x)(C_{is})(DF)}{(A_{is})(RRF)}$$

2. Volatiles in Air-ug/m³

Cx (ug/m³)= Compound concentration in ug/m³

$$\text{Cx (ug/m}^3\text{)} = \frac{(\text{ppbv} \times \text{Molecular wt.})}{(24.040)}$$

3. Volatile Organics (water and soil), ug/L or ug/kg

Soils/Waters	Medium Level Soils
1.0	1.0

$$C_x = \frac{(A_x)(IS)(DF)}{(A_{is})(RRF)(V)(\% \text{ solids})} \quad C_x = \frac{(A_x)(IS)(VT)(1000)(DF)}{(A_{is})(RRF)(VA)(V)(\% \text{ solids})}$$

4. Semi-Volatiles (waters and soils)

$$C_x = \frac{(A_x)(IS)(VE)(DF)}{(A_{is})(RRF)(\text{Volume injected, uL})(V)(\% \text{ solids})}$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$C_x = \frac{(A_x)(VE)(DF)}{(CF)(\text{Volume injected, uL})(V)(\% \text{ solids})}$$

WHERE:

C_x = concentration of analyte as ug/L or ug/kg

A_x = Area of the characteristic ion for the compound to be measured, counts.

A_{is} = Area of the characteristic ion for the specific internal standard, counts.

IS = Concentration of the internal standard spiking mixture, ng

RRF = Mean relative response factor from the initial calibration.

DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1

V = Volume for liquids in mL, weight for soils/solids in grams.

VA = volume of MeOH aliquot for medium level soils

VE = final volume of concentrated extract

VT = volume of MeOH for volatiles medium level soils

CF = calibration factor for external calibration used in GC pest/pcb

Cis = Concentration of the internal standard spiking mixture, ppbv



Analytical Batch Summary

Batch ID: BJ31344

Preparation Method: EPA 5030B

Prepared By: JTG

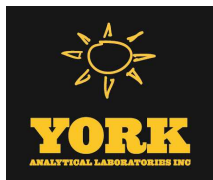
YORK Sample ID	Client Sample ID	Preparation Date
23J1154-01	PMW01_S_101723	10/19/23
23J1154-02	PMW02_S_101723	10/19/23
23J1154-03	PMW01_D_101723	10/19/23
23J1154-04	PMW02_D_101723	10/19/23
23J1154-05	GWDUP01_101723	10/19/23
23J1154-06	FB01_101723	10/19/23
23J1154-07	TB01_101723	10/19/23
BJ31344-BLK1	Blank	10/19/23
BJ31344-BS1	LCS	10/19/23
BJ31344-BSD1	LCS Dup	10/19/23
BJ31344-MS1	Matrix Spike	10/19/23
BJ31344-MSD1	Matrix Spike Dup	10/19/23

Batch ID: BJ31371

Preparation Method: EPA 5030B

Prepared By: JTG

YORK Sample ID	Client Sample ID	Preparation Date
23J1154-01RE1	PMW01_S_101723	10/19/23
23J1154-02RE1	PMW02_S_101723	10/19/23
23J1154-03RE1	PMW01_D_101723	10/19/23
23J1154-05RE1	GWDUP01_101723	10/19/23
BJ31371-BLK1	Blank	10/19/23
BJ31371-BS1	LCS	10/19/23
BJ31371-BSD1	LCS Dup	10/19/23



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	--------------------	-------	----------------	-------------------	------	----------------	------	-----	--------------	------

Batch BJ31344 - EPA 5030B

Blank (BJ31344-BLK1)

Prepared & Analyzed: 10/19/2023

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L
1,1,1-Trichloroethane	ND	0.500	"
1,1,2,2-Tetrachloroethane	ND	0.500	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"
1,1,2-Trichloroethane	ND	0.500	"
1,1-Dichloroethane	ND	0.500	"
1,1-Dichloroethylene	ND	0.500	"
1,2,3-Trichlorobenzene	ND	0.500	"
1,2,3-Trichloropropane	ND	0.500	"
1,2,4-Trichlorobenzene	ND	0.500	"
1,2,4-Trimethylbenzene	ND	0.500	"
1,2-Dibromo-3-chloropropane	ND	0.500	"
1,2-Dibromoethane	ND	0.500	"
1,2-Dichlorobenzene	ND	0.500	"
1,2-Dichloroethane	ND	0.500	"
1,2-Dichloropropane	ND	0.500	"
1,3,5-Trimethylbenzene	ND	0.500	"
1,3-Dichlorobenzene	ND	0.500	"
1,4-Dichlorobenzene	ND	0.500	"
1,4-Dioxane	ND	80.0	"
2-Butanone	ND	0.500	"
2-Hexanone	ND	0.500	"
4-Methyl-2-pentanone	ND	0.500	"
Acetone	ND	2.00	"
Acrolein	ND	0.500	"
Acrylonitrile	ND	0.500	"
Benzene	ND	0.500	"
Bromochloromethane	ND	0.500	"
Bromodichloromethane	ND	0.500	"
Bromoform	ND	0.500	"
Bromomethane	ND	0.500	"
Carbon disulfide	ND	0.500	"
Carbon tetrachloride	ND	0.500	"
Chlorobenzene	ND	0.500	"
Chloroethane	ND	0.500	"
Chloroform	ND	0.500	"
Chloromethane	ND	0.500	"
cis-1,2-Dichloroethylene	ND	0.500	"
cis-1,3-Dichloropropylene	ND	0.500	"
Cyclohexane	ND	0.500	"
Dibromochloromethane	ND	0.500	"
Dibromomethane	ND	0.500	"
Dichlorodifluoromethane	ND	0.500	"
Ethyl Benzene	ND	0.500	"
Hexachlorobutadiene	ND	0.500	"
Isopropylbenzene	ND	0.500	"
Methyl acetate	ND	0.500	"
Methyl tert-butyl ether (MTBE)	ND	0.500	"
Methylcyclohexane	ND	0.500	"
Methylene chloride	ND	2.00	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	-----------------	-------	-------------	----------------	------	-------------	------	-----	-----------	------

Batch BJ31344 - EPA 5030B

Blank (BJ31344-BLK1)

Prepared & Analyzed: 10/19/2023

n-Butylbenzene	ND	0.500	ug/L
n-Propylbenzene	ND	0.500	"
o-Xylene	ND	0.500	"
p- & m- Xylenes	ND	1.00	"
p-Isopropyltoluene	ND	0.500	"
sec-Butylbenzene	ND	0.500	"
Styrene	ND	0.500	"
tert-Butyl alcohol (TBA)	ND	1.00	"
tert-Butylbenzene	ND	0.500	"
Tetrachloroethylene	ND	0.500	"
Toluene	ND	0.500	"
trans-1,2-Dichloroethylene	ND	0.500	"
trans-1,3-Dichloropropylene	ND	0.500	"
Trichloroethylene	ND	0.500	"
Trichlorofluoromethane	ND	0.500	"
Vinyl Chloride	ND	0.500	"
Xylenes, Total	ND	1.50	"

Surrogate: SURR: 1,2-Dichloroethane-d4	8.94	"	10.0	89.4	69-130
Surrogate: SURR: Toluene-d8	10.6	"	10.0	106	81-117
Surrogate: SURR: p-Bromofluorobenzene	11.4	"	10.0	114	79-122

LCS (BJ31344-BS1)

Prepared & Analyzed: 10/19/2023

1,1,1,2-Tetrachloroethane	10.3	ug/L	10.0	103	82-126
1,1,1-Trichloroethane	10.0	"	10.0	100	78-136
1,1,2,2-Tetrachloroethane	10.5	"	10.0	105	76-129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	"	10.0	102	54-165
1,1,2-Trichloroethane	9.70	"	10.0	97.0	82-123
1,1-Dichloroethane	10.2	"	10.0	102	82-129
1,1-Dichloroethylene	10.8	"	10.0	108	68-138
1,2,3-Trichlorobenzene	10.4	"	10.0	104	76-136
1,2,3-Trichloropropane	10.1	"	10.0	101	77-128
1,2,4-Trichlorobenzene	10.5	"	10.0	105	76-137
1,2,4-Trimethylbenzene	12.0	"	10.0	120	82-132
1,2-Dibromo-3-chloropropane	8.14	"	10.0	81.4	45-147
1,2-Dibromoethane	9.89	"	10.0	98.9	83-124
1,2-Dichlorobenzene	11.0	"	10.0	110	79-123
1,2-Dichloroethane	9.62	"	10.0	96.2	73-132
1,2-Dichloropropane	11.4	"	10.0	114	78-126
1,3,5-Trimethylbenzene	12.4	"	10.0	124	80-131
1,3-Dichlorobenzene	11.1	"	10.0	111	86-122
1,4-Dichlorobenzene	10.9	"	10.0	109	85-124
1,4-Dioxane	86.3	"	210	41.1	10-349
2-Butanone	8.05	"	10.0	80.5	49-152
2-Hexanone	8.88	"	10.0	88.8	51-146
4-Methyl-2-pentanone	9.34	"	10.0	93.4	57-145
Acetone	32.1	"	10.0	321	14-150
Acrolein	10.3	"	25.0	41.2	10-153
Acrylonitrile	8.58	"	10.0	85.8	51-150
Benzene	10.4	"	10.0	104	85-126
Bromochloromethane	10.0	"	10.0	100	77-128
Bromodichloromethane	9.82	"	10.0	98.2	79-128

High Bias



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

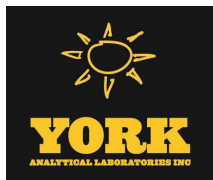
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	--------------------	-------	----------------	-------------------	------	----------------	------	-----	--------------	------

Batch BJ31344 - EPA 5030B

LCS (BJ31344-BS1)

Prepared & Analyzed: 10/19/2023

Bromoform	7.00		ug/L	10.0		70.0	78-133	Low Bias		
Bromomethane	4.74		"	10.0		47.4	43-168			
Carbon disulfide	9.95		"	10.0		99.5	68-146			
Carbon tetrachloride	10.2		"	10.0		102	77-141			
Chlorobenzene	10.8		"	10.0		108	88-120			
Chloroethane	11.6		"	10.0		116	65-136			
Chloroform	9.83		"	10.0		98.3	82-128			
Chloromethane	10.8		"	10.0		108	43-155			
cis-1,2-Dichloroethylene	10.4		"	10.0		104	83-129			
cis-1,3-Dichloropropylene	10.2		"	10.0		102	80-131			
Cyclohexane	4.99		"	10.0		49.9	63-149	Low Bias		
Dibromochloromethane	9.48		"	10.0		94.8	80-130			
Dibromomethane	9.54		"	10.0		95.4	72-134			
Dichlorodifluoromethane	11.8		"	10.0		118	44-144			
Ethyl Benzene	11.8		"	10.0		118	80-131			
Hexachlorobutadiene	10.6		"	10.0		106	67-146			
Isopropylbenzene	11.8		"	10.0		118	76-140			
Methyl acetate	8.03		"	10.0		80.3	51-139			
Methyl tert-butyl ether (MTBE)	9.09		"	10.0		90.9	76-135			
Methylcyclohexane	10.8		"	10.0		108	72-143			
Methylene chloride	9.74		"	10.0		97.4	55-137			
n-Butylbenzene	12.7		"	10.0		127	79-132			
n-Propylbenzene	12.0		"	10.0		120	78-133			
o-Xylene	11.4		"	10.0		114	78-130			
p- & m- Xylenes	23.4		"	20.0		117	77-133			
p-Isopropyltoluene	12.1		"	10.0		121	81-136			
sec-Butylbenzene	11.8		"	10.0		118	79-137			
Styrene	11.1		"	10.0		111	67-132			
tert-Butyl alcohol (TBA)	25.9		"	50.0		51.8	25-162			
tert-Butylbenzene	10.1		"	10.0		101	77-138			
Tetrachloroethylene	10.2		"	10.0		102	82-131			
Toluene	11.2		"	10.0		112	80-127			
trans-1,2-Dichloroethylene	10.4		"	10.0		104	80-132			
trans-1,3-Dichloropropylene	9.77		"	10.0		97.7	78-131			
Trichloroethylene	10.6		"	10.0		106	82-128			
Trichlorofluoromethane	11.6		"	10.0		116	67-139			
Vinyl Chloride	12.0		"	10.0		120	58-145			
Surrogate: SURR: 1,2-Dichloroethane-d4	9.51		"	10.0		95.1	69-130			
Surrogate: SURR: Toluene-d8	10.4		"	10.0		104	81-117			
Surrogate: SURR: p-Bromofluorobenzene	10.3		"	10.0		103	79-122			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ31344 - EPA 5030B											
LCS Dup (BJ31344-BSD1)						Prepared & Analyzed: 10/19/2023					
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126		1.35	30	
1,1,1-Trichloroethane	9.67		"	10.0		96.7	78-136		3.46	30	
1,1,2,2-Tetrachloroethane	11.2		"	10.0		112	76-129		5.89	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.82		"	10.0		98.2	54-165		4.19	30	
1,1,2-Trichloroethane	10.4		"	10.0		104	82-123		6.68	30	
1,1-Dichloroethane	9.98		"	10.0		99.8	82-129		1.98	30	
1,1-Dichloroethylene	10.2		"	10.0		102	68-138		5.25	30	
1,2,3-Trichlorobenzene	11.2		"	10.0		112	76-136		7.96	30	
1,2,3-Trichloropropane	10.6		"	10.0		106	77-128		4.26	30	
1,2,4-Trichlorobenzene	10.8		"	10.0		108	76-137		2.92	30	
1,2,4-Trimethylbenzene	11.2		"	10.0		112	82-132		6.91	30	
1,2-Dibromo-3-chloropropane	8.69		"	10.0		86.9	45-147		6.54	30	
1,2-Dibromoethane	10.5		"	10.0		105	83-124		6.27	30	
1,2-Dichlorobenzene	10.8		"	10.0		108	79-123		1.75	30	
1,2-Dichloroethane	10.1		"	10.0		101	73-132		4.87	30	
1,2-Dichloropropane	11.4		"	10.0		114	78-126		0.175	30	
1,3,5-Trimethylbenzene	11.4		"	10.0		114	80-131		8.15	30	
1,3-Dichlorobenzene	10.5		"	10.0		105	86-122		6.11	30	
1,4-Dichlorobenzene	10.4		"	10.0		104	85-124		4.04	30	
1,4-Dioxane	113		"	210		53.9	10-349		27.0	30	
2-Butanone	8.43		"	10.0		84.3	49-152		4.61	30	
2-Hexanone	10.1		"	10.0		101	51-146		12.7	30	
4-Methyl-2-pentanone	10.7		"	10.0		107	57-145		13.6	30	
Acetone	39.8		"	10.0		398	14-150	High Bias	21.4	30	
Acrolein	11.8		"	25.0		47.1	10-153		13.3	30	
Acrylonitrile	9.68		"	10.0		96.8	51-150		12.0	30	
Benzene	10.3		"	10.0		103	85-126		1.16	30	
Bromochloromethane	10.2		"	10.0		102	77-128		1.29	30	
Bromodichloromethane	9.88		"	10.0		98.8	79-128		0.609	30	
Bromoform	7.84		"	10.0		78.4	78-133		11.3	30	
Bromomethane	4.30		"	10.0		43.0	43-168		9.73	30	
Carbon disulfide	9.40		"	10.0		94.0	68-146		5.68	30	
Carbon tetrachloride	9.72		"	10.0		97.2	77-141		4.62	30	
Chlorobenzene	10.7		"	10.0		107	88-120		1.30	30	
Chloroethane	11.2		"	10.0		112	65-136		4.04	30	
Chloroform	9.84		"	10.0		98.4	82-128		0.102	30	
Chloromethane	9.93		"	10.0		99.3	43-155		8.21	30	
cis-1,2-Dichloroethylene	10.3		"	10.0		103	83-129		0.867	30	
cis-1,3-Dichloropropylene	10.4		"	10.0		104	80-131		1.85	30	
Cyclohexane	4.75		"	10.0		47.5	63-149	Low Bias	4.93	30	
Dibromochloromethane	10.1		"	10.0		101	80-130		6.43	30	
Dibromomethane	10.1		"	10.0		101	72-134		5.90	30	
Dichlorodifluoromethane	11.0		"	10.0		110	44-144		7.08	30	
Ethyl Benzene	11.5		"	10.0		115	80-131		2.83	30	
Hexachlorobutadiene	10.1		"	10.0		101	67-146		5.21	30	
Isopropylbenzene	10.8		"	10.0		108	76-140		9.19	30	
Methyl acetate	9.13		"	10.0		91.3	51-139		12.8	30	
Methyl tert-butyl ether (MTBE)	10.2		"	10.0		102	76-135		11.5	30	
Methylcyclohexane	10.3		"	10.0		103	72-143		5.21	30	
Methylene chloride	9.76		"	10.0		97.6	55-137		0.205	30	
n-Butylbenzene	11.6		"	10.0		116	79-132		9.23	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag
---------	--------	--------------------	-------	----------------	-------------------	------	----------------	------	-----	-------	------

Batch BJ31344 - EPA 5030B

LCS Dup (BJ31344-BSD1)

Prepared & Analyzed: 10/19/2023

n-Propylbenzene	10.9		ug/L	10.0		109	78-133		9.27	30	
o-Xylene	11.2		"	10.0		112	78-130		1.24	30	
p- & m- Xylenes	22.8		"	20.0		114	77-133		2.81	30	
p-Isopropyltoluene	11.0		"	10.0		110	81-136		9.18	30	
sec-Butylbenzene	10.7		"	10.0		107	79-137		10.1	30	
Styrene	11.1		"	10.0		111	67-132		0.541	30	
tert-Butyl alcohol (TBA)	33.7		"	50.0		67.4	25-162		26.1	30	
tert-Butylbenzene	9.20		"	10.0		92.0	77-138		9.72	30	
Tetrachloroethylene	9.78		"	10.0		97.8	82-131		4.50	30	
Toluene	11.0		"	10.0		110	80-127		2.52	30	
trans-1,2-Dichloroethylene	10.1		"	10.0		101	80-132		3.22	30	
trans-1,3-Dichloropropylene	10.4		"	10.0		104	78-131		5.96	30	
Trichloroethylene	10.2		"	10.0		102	82-128		4.71	30	
Trichlorofluoromethane	11.0		"	10.0		110	67-139		5.22	30	
Vinyl Chloride	11.0		"	10.0		110	58-145		8.36	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.0		"	10.0		100	69-130				
Surrogate: SURR: Toluene-d8	10.3		"	10.0		103	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.85		"	10.0		98.5	79-122				

Matrix Spike (BJ31344-MS1)

*Source sample: 23J1154-04 (PMW02_D_101723)

Prepared & Analyzed: 10/19/2023

1,1,1,2-Tetrachloroethane	10.5		ug/L	10.0	0.00	105	45-161				
1,1,1-Trichloroethane	10.5		"	10.0	0.00	105	70-146				
1,1,2,2-Tetrachloroethane	10.9		"	10.0	0.00	109	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0	0.00	108	21-217				
1,1,2-Trichloroethane	10.7		"	10.0	0.00	107	59-146				
1,1-Dichloroethane	10.6		"	10.0	0.00	106	54-146				
1,1-Dichloroethylene	11.4		"	10.0	0.00	114	44-165				
1,2,3-Trichlorobenzene	10.4		"	10.0	0.00	104	40-161				
1,2,3-Trichloropropane	10.2		"	10.0	0.00	102	74-127				
1,2,4-Trichlorobenzene	9.89		"	10.0	0.00	98.9	41-161				
1,2,4-Trimethylbenzene	10.8		"	10.0	0.00	108	72-129				
1,2-Dibromo-3-chloropropane	7.63		"	10.0	0.00	76.3	31-151				
1,2-Dibromoethane	10.6		"	10.0	0.00	106	75-125				
1,2-Dichlorobenzene	10.2		"	10.0	0.00	102	63-122				
1,2-Dichloroethane	10.2		"	10.0	0.00	102	68-131				
1,2-Dichloropropane	11.7		"	10.0	0.00	117	77-121				
1,3,5-Trimethylbenzene	11.1		"	10.0	0.00	111	69-126				
1,3-Dichlorobenzene	9.98		"	10.0	0.00	99.8	74-119				
1,4-Dichlorobenzene	9.83		"	10.0	0.00	98.3	70-124				
1,4-Dioxane	98.8		"	210	0.00	47.1	10-310				
2-Butanone	9.40		"	10.0	0.00	94.0	10-193				
2-Hexanone	9.80		"	10.0	0.170	96.3	53-133				
4-Methyl-2-pentanone	10.2		"	10.0	0.00	102	38-150				
Acetone	9.47		"	10.0	2.16	73.1	13-149				
Acrolein	11.8		"	25.0	0.00	47.2	10-195				
Acrylonitrile	9.60		"	10.0	0.00	96.0	37-165				
Benzene	11.0		"	10.0	0.00	110	38-155				
Bromochloromethane	10.7		"	10.0	0.00	107	75-121				
Bromodichloromethane	10.2		"	10.0	0.00	102	70-129				
Bromoform	7.45		"	10.0	0.00	74.5	66-136				
Bromomethane	3.99		"	10.0	0.00	39.9	30-158				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	--------------------	-------	----------------	-------------------	------	----------------	------	-----	--------------	------

Batch BJ31344 - EPA 5030B

Matrix Spike (BJ31344-MS1)		*Source sample: 23J1154-04 (PMW02_D_101723)					Prepared & Analyzed: 10/19/2023				
Carbon disulfide	10.3		ug/L	10.0	0.00	103	10-138				
Carbon tetrachloride	10.6		"	10.0	0.00	106	71-146				
Chlorobenzene	10.8		"	10.0	0.00	108	81-117				
Chloroethane	12.2		"	10.0	0.00	122	51-145				
Chloroform	10.2		"	10.0	0.00	102	80-124				
Chloromethane	9.64		"	10.0	0.00	96.4	16-163				
cis-1,2-Dichloroethylene	13.0		"	10.0	2.07	109	76-125				
cis-1,3-Dichloropropylene	10.4		"	10.0	0.00	104	58-131				
Cyclohexane	5.25		"	10.0	0.00	52.5	70-130	Low Bias			
Dibromochloromethane	10.2		"	10.0	0.00	102	71-129				
Dibromomethane	10.4		"	10.0	0.00	104	76-120				
Dichlorodifluoromethane	11.8		"	10.0	0.00	118	30-147				
Ethyl Benzene	11.9		"	10.0	0.00	119	72-128				
Hexachlorobutadiene	10.1		"	10.0	0.00	101	34-166				
Isopropylbenzene	10.8		"	10.0	0.00	108	66-139				
Methyl acetate	9.33		"	10.0	0.00	93.3	10-200				
Methyl tert-butyl ether (MTBE)	10.1		"	10.0	0.00	101	75-128				
Methylcyclohexane	10.9		"	10.0	0.00	109	70-130				
Methylene chloride	10.9		"	10.0	0.620	102	57-128				
n-Butylbenzene	11.2		"	10.0	0.00	112	61-138				
n-Propylbenzene	10.8		"	10.0	0.00	108	66-134				
o-Xylene	11.4		"	10.0	0.00	114	69-126				
p- & m- Xylenes	23.4		"	20.0	0.00	117	67-130				
p-Isopropyltoluene	10.7		"	10.0	0.00	107	64-137				
sec-Butylbenzene	10.6		"	10.0	0.00	106	53-155				
Styrene	11.0		"	10.0	0.00	110	69-125				
tert-Butyl alcohol (TBA)	35.5		"	50.0	0.00	71.1	10-130				
tert-Butylbenzene	9.11		"	10.0	0.00	91.1	65-139				
Tetrachloroethylene	10.2		"	10.0	0.00	102	64-139				
Toluene	11.5		"	10.0	0.230	113	76-123				
trans-1,2-Dichloroethylene	10.9		"	10.0	0.00	109	79-131				
trans-1,3-Dichloropropylene	10.1		"	10.0	0.00	101	55-130				
Trichloroethylene	10.7		"	10.0	0.00	107	53-145				
Trichlorofluoromethane	12.4		"	10.0	0.00	124	61-142				
Vinyl Chloride	12.1		"	10.0	0.00	121	31-165				
Surrogate: SURR: 1,2-Dichloroethane-d4	10.6		"	10.0		106	69-130				
Surrogate: SURR: Toluene-d8	10.2		"	10.0		102	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.64		"	10.0		96.4	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ31344 - EPA 5030B											
Matrix Spike Dup (BJ31344-MSD1)											
				*Source sample: 23J1154-04 (PMW02_D_101723)				Prepared & Analyzed: 10/19/2023			
1,1,1,2-Tetrachloroethane	10.6		ug/L	10.0	0.00	106	45-161		0.758	30	
1,1,1-Trichloroethane	10.5		"	10.0	0.00	105	70-146		0.190	30	
1,1,2,2-Tetrachloroethane	11.2		"	10.0	0.00	112	74-121		3.44	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0	0.00	106	21-217		1.59	30	
1,1,2-Trichloroethane	10.9		"	10.0	0.00	109	59-146		1.48	30	
1,1-Dichloroethane	10.5		"	10.0	0.00	105	54-146		0.568	30	
1,1-Dichloroethylene	11.4		"	10.0	0.00	114	44-165		0.351	30	
1,2,3-Trichlorobenzene	11.3		"	10.0	0.00	113	40-161		9.13	30	
1,2,3-Trichloropropane	10.8		"	10.0	0.00	108	74-127		5.54	30	
1,2,4-Trichlorobenzene	10.6		"	10.0	0.00	106	41-161		6.74	30	
1,2,4-Trimethylbenzene	10.9		"	10.0	0.00	109	72-129		0.923	30	
1,2-Dibromo-3-chloropropane	8.05		"	10.0	0.00	80.5	31-151		5.36	30	
1,2-Dibromoethane	10.8		"	10.0	0.00	108	75-125		2.62	30	
1,2-Dichlorobenzene	10.6		"	10.0	0.00	106	63-122		3.84	30	
1,2-Dichloroethane	10.4		"	10.0	0.00	104	68-131		1.64	30	
1,2-Dichloropropane	11.7		"	10.0	0.00	117	77-121		0.170	30	
1,3,5-Trimethylbenzene	11.2		"	10.0	0.00	112	69-126		0.628	30	
1,3-Dichlorobenzene	10.2		"	10.0	0.00	102	74-119		1.69	30	
1,4-Dichlorobenzene	9.88		"	10.0	0.00	98.8	70-124		0.507	30	
1,4-Dioxane	121		"	210	0.00	57.8	10-310		20.4	30	
2-Butanone	10.1		"	10.0	0.00	101	10-193		6.88	30	
2-Hexanone	10.6		"	10.0	0.170	104	53-133		7.84	30	
4-Methyl-2-pentanone	11.1		"	10.0	0.00	111	38-150		9.20	30	
Acetone	10.4		"	10.0	2.16	82.6	13-149		9.55	30	
Acrolein	12.6		"	25.0	0.00	50.4	10-195		6.47	30	
Acrylonitrile	10.0		"	10.0	0.00	100	37-165		4.38	30	
Benzene	10.9		"	10.0	0.00	109	38-155		0.733	30	
Bromochloromethane	10.6		"	10.0	0.00	106	75-121		1.03	30	
Bromodichloromethane	10.5		"	10.0	0.00	105	70-129		2.22	30	
Bromoform	7.77		"	10.0	0.00	77.7	66-136		4.20	30	
Bromomethane	4.52		"	10.0	0.00	45.2	30-158		12.5	30	
Carbon disulfide	10.3		"	10.0	0.00	103	10-138		0.388	30	
Carbon tetrachloride	10.6		"	10.0	0.00	106	71-146		0.00	30	
Chlorobenzene	10.9		"	10.0	0.00	109	81-117		0.923	30	
Chloroethane	12.2		"	10.0	0.00	122	51-145		0.0821	30	
Chloroform	10.3		"	10.0	0.00	103	80-124		0.292	30	
Chloromethane	9.98		"	10.0	0.00	99.8	16-163		3.47	30	
cis-1,2-Dichloroethylene	12.5		"	10.0	2.07	104	76-125		3.93	30	
cis-1,3-Dichloropropylene	10.5		"	10.0	0.00	105	58-131		1.15	30	
Cyclohexane	5.29		"	10.0	0.00	52.9	70-130	Low Bias	0.759	30	
Dibromochloromethane	10.4		"	10.0	0.00	104	71-129		2.05	30	
Dibromomethane	10.6		"	10.0	0.00	106	76-120		1.62	30	
Dichlorodifluoromethane	11.8		"	10.0	0.00	118	30-147		0.0851	30	
Ethyl Benzene	12.0		"	10.0	0.00	120	72-128		1.59	30	
Hexachlorobutadiene	10.5		"	10.0	0.00	105	34-166		3.40	30	
Isopropylbenzene	10.7		"	10.0	0.00	107	66-139		0.465	30	
Methyl acetate	9.67		"	10.0	0.00	96.7	10-200		3.58	30	
Methyl tert-butyl ether (MTBE)	10.8		"	10.0	0.00	108	75-128		6.04	30	
Methylcyclohexane	11.0		"	10.0	0.00	110	70-130		1.28	30	
Methylene chloride	10.8		"	10.0	0.620	102	57-128		0.461	30	
n-Butylbenzene	11.3		"	10.0	0.00	113	61-138		1.24	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

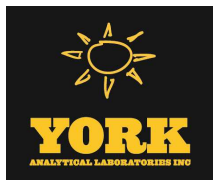
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag
---------	--------	-----------------	-------	-------------	----------------	------	-------------	------	-----	-------	------

Batch BJ31344 - EPA 5030B

Matrix Spike Dup (BJ31344-MSD1)		*Source sample: 23J1154-04 (PMW02_D_101723)					Prepared & Analyzed: 10/19/2023				
n-Propylbenzene	10.8		ug/L	10.0	0.00	108	66-134		0.00	30	
o-Xylene	11.6		"	10.0	0.00	116	69-126		1.39	30	
p- & m- Xylenes	23.8		"	20.0	0.00	119	67-130		1.40	30	
p-Isopropyltoluene	10.8		"	10.0	0.00	108	64-137		0.934	30	
sec-Butylbenzene	10.6		"	10.0	0.00	106	53-155		0.377	30	
Styrene	11.4		"	10.0	0.00	114	69-125		3.13	30	
tert-Butyl alcohol (TBA)	39.5		"	50.0	0.00	79.0	10-130		10.6	30	
tert-Butylbenzene	9.16		"	10.0	0.00	91.6	65-139		0.547	30	
Tetrachloroethylene	10.3		"	10.0	0.00	103	64-139		0.978	30	
Toluene	11.7		"	10.0	0.230	114	76-123		1.21	30	
trans-1,2-Dichloroethylene	10.9		"	10.0	0.00	109	79-131		0.367	30	
trans-1,3-Dichloropropylene	10.4		"	10.0	0.00	104	55-130		3.32	30	
Trichloroethylene	10.8		"	10.0	0.00	108	53-145		1.21	30	
Trichlorofluoromethane	12.4		"	10.0	0.00	124	61-142		0.726	30	
Vinyl Chloride	12.2		"	10.0	0.00	122	31-165		0.739	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.6		"	10.0		106	69-130				
Surrogate: SURR: Toluene-d8	10.2		"	10.0		102	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.50		"	10.0		95.0	79-122				

Batch BJ31371 - EPA 5030B

Blank (BJ31371-BLK1)		Prepared & Analyzed: 10/19/2023									
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

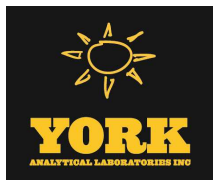
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	--------------------	-------	----------------	-------------------	------	----------------	------	-----	--------------	------

Batch BJ31371 - EPA 5030B

Blank (BJ31371-BLK1)

Prepared & Analyzed: 10/19/2023

Bromoform	ND	0.500	ug/L								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.3		"	10.0		103	69-130				
Surrogate: SURR: Toluene-d8	10.2		"	10.0		102	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.3		"	10.0		103	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	--------------------	-------	----------------	-------------------	------	----------------	------	-----	--------------	------

Batch BJ31371 - EPA 5030B

LCS (BJ31371-BS1)

Prepared & Analyzed: 10/19/2023

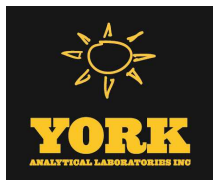
1,1,1,2-Tetrachloroethane	10.9		ug/L	10.0		109	82-126			
1,1,1-Trichloroethane	10.2		"	10.0		102	78-136			
1,1,2,2-Tetrachloroethane	11.5		"	10.0		115	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	54-165			
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123			
1,1-Dichloroethane	10.4		"	10.0		104	82-129			
1,1-Dichloroethylene	10.8		"	10.0		108	68-138			
1,2,3-Trichlorobenzene	11.9		"	10.0		119	76-136			
1,2,3-Trichloropropane	10.8		"	10.0		108	77-128			
1,2,4-Trichlorobenzene	11.4		"	10.0		114	76-137			
1,2,4-Trimethylbenzene	11.7		"	10.0		117	82-132			
1,2-Dibromo-3-chloropropane	8.92		"	10.0		89.2	45-147			
1,2-Dibromoethane	11.0		"	10.0		110	83-124			
1,2-Dichlorobenzene	11.3		"	10.0		113	79-123			
1,2-Dichloroethane	10.4		"	10.0		104	73-132			
1,2-Dichloropropane	11.8		"	10.0		118	78-126			
1,3,5-Trimethylbenzene	12.0		"	10.0		120	80-131			
1,3-Dichlorobenzene	11.0		"	10.0		110	86-122			
1,4-Dichlorobenzene	10.9		"	10.0		109	85-124			
1,4-Dioxane	108		"	210		51.4	10-349			
2-Butanone	9.01		"	10.0		90.1	49-152			
2-Hexanone	10.5		"	10.0		105	51-146			
4-Methyl-2-pentanone	11.0		"	10.0		110	57-145			
Acetone	8.20		"	10.0		82.0	14-150			
Acrolein	12.0		"	25.0		48.0	10-153			
Acrylonitrile	10.0		"	10.0		100	51-150			
Benzene	10.8		"	10.0		108	85-126			
Bromochloromethane	10.7		"	10.0		107	77-128			
Bromodichloromethane	10.6		"	10.0		106	79-128			
Bromoform	7.82		"	10.0		78.2	78-133			
Bromomethane	5.35		"	10.0		53.5	43-168			
Carbon disulfide	9.92		"	10.0		99.2	68-146			
Carbon tetrachloride	10.3		"	10.0		103	77-141			
Chlorobenzene	11.1		"	10.0		111	88-120			
Chloroethane	11.7		"	10.0		117	65-136			
Chloroform	10.4		"	10.0		104	82-128			
Chloromethane	10.1		"	10.0		101	43-155			
cis-1,2-Dichloroethylene	10.8		"	10.0		108	83-129			
cis-1,3-Dichloropropylene	10.6		"	10.0		106	80-131			
Cyclohexane	5.07		"	10.0		50.7	63-149	Low Bias		
Dibromochloromethane	10.3		"	10.0		103	80-130			
Dibromomethane	10.7		"	10.0		107	72-134			
Dichlorodifluoromethane	11.2		"	10.0		112	44-144			
Ethyl Benzene	12.2		"	10.0		122	80-131			
Hexachlorobutadiene	10.8		"	10.0		108	67-146			
Isopropylbenzene	11.4		"	10.0		114	76-140			
Methyl acetate	9.32		"	10.0		93.2	51-139			
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	76-135			
Methylcyclohexane	11.0		"	10.0		110	72-143			
Methylene chloride	10.2		"	10.0		102	55-137			
n-Butylbenzene	12.2		"	10.0		122	79-132			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag
Batch BJ31371 - EPA 5030B											
LCS (BJ31371-BS1)						Prepared & Analyzed: 10/19/2023					
n-Propylbenzene	11.5		ug/L	10.0		115	78-133				
o-Xylene	11.8		"	10.0		118	78-130				
p- & m- Xylenes	24.2		"	20.0		121	77-133				
p-Isopropyltoluene	11.6		"	10.0		116	81-136				
sec-Butylbenzene	11.2		"	10.0		112	79-137				
Styrene	11.6		"	10.0		116	67-132				
tert-Butyl alcohol (TBA)	32.4		"	50.0		64.8	25-162				
tert-Butylbenzene	9.64		"	10.0		96.4	77-138				
Tetrachloroethylene	10.4		"	10.0		104	82-131				
Toluene	11.6		"	10.0		116	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	10.4		"	10.0		104	78-131				
Trichloroethylene	10.8		"	10.0		108	82-128				
Trichlorofluoromethane	11.7		"	10.0		117	67-139				
Vinyl Chloride	11.6		"	10.0		116	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	10.2		"	10.0		102	69-130				
Surrogate: SURR: Toluene-d8	10.3		"	10.0		103	81-117				
Surrogate: SURR: p-Bromofluorobenzene	9.89		"	10.0		98.9	79-122				
LCS Dup (BJ31371-BSD1)						Prepared & Analyzed: 10/19/2023					
1,1,1,2-Tetrachloroethane	10.5		ug/L	10.0		105	82-126		3.37	30	
1,1,1-Trichloroethane	9.86		"	10.0		98.6	78-136		3.39	30	
1,1,2,2-Tetrachloroethane	11.3		"	10.0		113	76-129		2.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.96		"	10.0		99.6	54-165		2.87	30	
1,1,2-Trichloroethane	10.9		"	10.0		109	82-123		0.276	30	
1,1-Dichloroethane	10.2		"	10.0		102	82-129		2.43	30	
1,1-Dichloroethylene	10.5		"	10.0		105	68-138		3.01	30	
1,2,3-Trichlorobenzene	11.8		"	10.0		118	76-136		0.507	30	
1,2,3-Trichloropropane	10.7		"	10.0		107	77-128		0.372	30	
1,2,4-Trichlorobenzene	11.0		"	10.0		110	76-137		3.39	30	
1,2,4-Trimethylbenzene	11.1		"	10.0		111	82-132		4.82	30	
1,2-Dibromo-3-chloropropane	9.05		"	10.0		90.5	45-147		1.45	30	
1,2-Dibromoethane	10.9		"	10.0		109	83-124		1.28	30	
1,2-Dichlorobenzene	10.9		"	10.0		109	79-123		3.43	30	
1,2-Dichloroethane	10.3		"	10.0		103	73-132		1.06	30	
1,2-Dichloropropane	11.5		"	10.0		115	78-126		2.40	30	
1,3,5-Trimethylbenzene	11.4		"	10.0		114	80-131		4.69	30	
1,3-Dichlorobenzene	10.5		"	10.0		105	86-122		4.27	30	
1,4-Dichlorobenzene	10.5		"	10.0		105	85-124		3.84	30	
1,4-Dioxane	114		"	210		54.5	10-349		5.93	30	
2-Butanone	9.15		"	10.0		91.5	49-152		1.54	30	
2-Hexanone	10.5		"	10.0		105	51-146		0.191	30	
4-Methyl-2-pentanone	10.8		"	10.0		108	57-145		1.29	30	
Acetone	9.01		"	10.0		90.1	14-150		9.41	30	
Acrolein	12.0		"	25.0		47.9	10-153		0.250	30	
Acrylonitrile	10.0		"	10.0		100	51-150		0.199	30	
Benzene	10.6		"	10.0		106	85-126		2.52	30	
Bromochloromethane	10.7		"	10.0		107	77-128		0.281	30	
Bromodichloromethane	10.3		"	10.0		103	79-128		3.17	30	
Bromoform	7.77		"	10.0		77.7	78-133	Low Bias	0.641	30	
Bromomethane	5.37		"	10.0		53.7	43-168		0.373	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

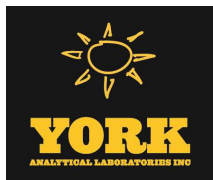
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	--------------------	-------	----------------	-------------------	------	----------------	------	-----	--------------	------

Batch BJ31371 - EPA 5030B

LCS Dup (BJ31371-BSD1)

Prepared & Analyzed: 10/19/2023

Carbon disulfide	9.62		ug/L	10.0		96.2	68-146		3.07	30
Carbon tetrachloride	9.90		"	10.0		99.0	77-141		4.15	30
Chlorobenzene	10.8		"	10.0		108	88-120		3.38	30
Chloroethane	11.3		"	10.0		113	65-136		3.22	30
Chloroform	10.2		"	10.0		102	82-128		2.33	30
Chloromethane	9.85		"	10.0		98.5	43-155		2.70	30
cis-1,2-Dichloroethylene	10.5		"	10.0		105	83-129		2.73	30
cis-1,3-Dichloropropylene	10.3		"	10.0		103	80-131		3.15	30
Cyclohexane	4.89		"	10.0		48.9	63-149	Low Bias	3.61	30
Dibromochloromethane	10.2		"	10.0		102	80-130		0.975	30
Dibromomethane	10.5		"	10.0		105	72-134		1.70	30
Dichlorodifluoromethane	10.7		"	10.0		107	44-144		4.49	30
Ethyl Benzene	11.7		"	10.0		117	80-131		3.85	30
Hexachlorobutadiene	10.4		"	10.0		104	67-146		3.20	30
Isopropylbenzene	10.8		"	10.0		108	76-140		5.33	30
Methyl acetate	9.48		"	10.0		94.8	51-139		1.70	30
Methyl tert-butyl ether (MTBE)	10.5		"	10.0		105	76-135		0.953	30
Methylcyclohexane	10.5		"	10.0		105	72-143		4.58	30
Methylene chloride	10.1		"	10.0		101	55-137		1.77	30
n-Butylbenzene	11.6		"	10.0		116	79-132		4.96	30
n-Propylbenzene	10.9		"	10.0		109	78-133		5.19	30
o-Xylene	11.4		"	10.0		114	78-130		3.80	30
p- & m- Xylenes	23.1		"	20.0		116	77-133		4.35	30
p-Isopropyltoluene	11.0		"	10.0		110	81-136		4.95	30
sec-Butylbenzene	10.7		"	10.0		107	79-137		4.66	30
Styrene	11.2		"	10.0		112	67-132		3.33	30
tert-Butyl alcohol (TBA)	34.8		"	50.0		69.6	25-162		7.12	30
tert-Butylbenzene	9.26		"	10.0		92.6	77-138		4.02	30
Tetrachloroethylene	9.87		"	10.0		98.7	82-131		5.61	30
Toluene	11.1		"	10.0		111	80-127		3.96	30
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132		3.54	30
trans-1,3-Dichloropropylene	10.3		"	10.0		103	78-131		1.45	30
Trichloroethylene	10.4		"	10.0		104	82-128		4.24	30
Trichlorofluoromethane	11.3		"	10.0		113	67-139		3.22	30
Vinyl Chloride	11.1		"	10.0		111	58-145		4.85	30
Surrogate: SURR: 1,2-Dichloroethane-d4	10.3		"	10.0		103	69-130			
Surrogate: SURR: Toluene-d8	10.2		"	10.0		102	81-117			
Surrogate: SURR: p-Bromofluorobenzene	9.76		"	10.0		97.6	79-122			



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23J1154-01	PMW01_S_101723	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23J1154-02	PMW02_S_101723	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23J1154-03	PMW01_D_101723	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23J1154-04	PMW02_D_101723	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23J1154-05	GWDUP01_101723	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23J1154-06	FB01_101723	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23J1154-07	TB01_101723	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

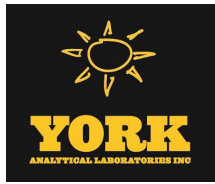
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: Samples were iced at the time of pickup by the courier, but had insufficient time to achieve an acceptable temperature per method requirements before receipt at the lab.



Laboratory Chain-of-Custody Record

York Project (SDG) No.: 23J1154

Samples Received: 10/18/2023 19:00 By: Adanny Camacho Logged In: 10/18/2023 12:42 By: Tom Gabrielson

Sample Conditions:

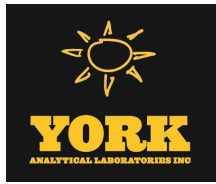
- | | |
|--|---|
| ☐ Custody Seals | ☒ Chain of Custody Form Received |
| ☒ Containers Intact | ☒ Appropriate Sample Volumes Received |
| ☒ COC/Labels Agree | ☒ Appropriate Sample Containers Submitted |
| ☒ Preservation Confirmed | ☒ Samples Submitted within Holding Times |
| ☒ Cooler Temperature Confirmed | ☐ Corrective Action Form Required |
| ☐ COC Complete | |

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
23J1154-01	EPA 5030B	10/19/2023 6:15	10/19/2023 6:15	Jessica Tatiana Guillermo
23J1154-01RE1	EPA 5030B	10/19/2023 6:17	10/19/2023 6:17	Jessica Tatiana Guillermo
23J1154-02	EPA 5030B	10/19/2023 6:15	10/19/2023 6:15	Jessica Tatiana Guillermo
23J1154-02RE1	EPA 5030B	10/19/2023 6:17	10/19/2023 6:17	Jessica Tatiana Guillermo
23J1154-03	EPA 5030B	10/19/2023 6:15	10/19/2023 6:15	Jessica Tatiana Guillermo
23J1154-03RE1	EPA 5030B	10/19/2023 6:17	10/19/2023 6:17	Jessica Tatiana Guillermo
23J1154-04	EPA 5030B	10/19/2023 6:15	10/19/2023 6:15	Jessica Tatiana Guillermo
23J1154-05	EPA 5030B	10/19/2023 6:15	10/19/2023 6:15	Jessica Tatiana Guillermo
23J1154-05RE1	EPA 5030B	10/19/2023 6:17	10/19/2023 6:17	Jessica Tatiana Guillermo
23J1154-06	EPA 5030B	10/19/2023 6:15	10/19/2023 6:15	Jessica Tatiana Guillermo
23J1154-07	EPA 5030B	10/19/2023 6:15	10/19/2023 6:15	Jessica Tatiana Guillermo

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
23J1154-01	VOA, 8260 LOW MASTER	10/19/2023 6:15	10/19/2023 14:33	Jessica Tatiana Guillermo
23J1154-01RE1	VOA, 8260 LOW MASTER	10/19/2023 6:17	10/20/2023 1:38	Jessica Tatiana Guillermo
23J1154-02	VOA, 8260 LOW MASTER	10/19/2023 6:15	10/19/2023 15:22	Jessica Tatiana Guillermo
23J1154-02RE1	VOA, 8260 LOW MASTER	10/19/2023 6:17	10/20/2023 4:06	Jessica Tatiana Guillermo
23J1154-03	VOA, 8260 LOW MASTER	10/19/2023 6:15	10/19/2023 16:12	Jessica Tatiana Guillermo
23J1154-03RE1	VOA, 8260 LOW MASTER	10/19/2023 6:17	10/20/2023 4:30	Jessica Tatiana Guillermo
23J1154-04	VOA, 8260 LOW MASTER	10/19/2023 6:15	10/19/2023 17:01	Jessica Tatiana Guillermo
23J1154-05	VOA, 8260 LOW MASTER	10/19/2023 6:15	10/19/2023 17:51	Jessica Tatiana Guillermo
23J1154-05RE1	VOA, 8260 LOW MASTER	10/19/2023 6:17	10/20/2023 5:19	Jessica Tatiana Guillermo



Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
23J1154-06	VOA, 8260 LOW MASTER	10/19/2023 6:15	10/19/2023 14:09	Jessica Tatiana Guillermo
23J1154-07	VOA, 8260 LOW MASTER	10/19/2023 6:15	10/19/2023 13:19	Jessica Tatiana Guillermo



YORK Project No.

0351154

Page 1 of 1

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below.

Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company:	L-ANGAN	Company:		Company:		170199901		RUSH - Next Day	
Address:	360 W 31st Street NYC, NY, 10001	Address:		Address:				RUSH - Two Day	
Phone:	212-479-5400	Phone:		Phone:		YOUR Project Name		RUSH - Three Day	
Contact:	Albert Tashji	Contact:		Contact:		1095 Southern Blvd		RUSH - Four Day	
E-mail:	ATashji@Langan.com	E-mail:		E-mail:				RUSH - Five Day	
						YOUR PO#:		Standard (6-9 Day)	
								PFAS Standard is 7-10 Days	

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

W. Leach

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
S - soil / solid	New York	☒ Summary Report	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	☐ QA Report	
DW - drinking water	Connecticut	☐ CMDP	
WW - wastewater	Pennsylvania	☐ Standard Excel EDD Deliverables	
O - Oil	Other:	☐ NY ASP B Package Other:	

[illegible]

Comments: Please CC: Datamanager@len.gov.com

Comments:	Preservation: (check all that apply)				Special Instruction
	HCl	MeOH	HNO ₃	H ₂ SO ₄	
Please cc: DataManagement@LanGen.com Run for MS/MSD					
1. Samples Relinquished by / Company	Date/Time	Samples冻/chilled at time of lab pickup? circle Yes or No	Zn/Ag		Other:
Ali Reach / Langan	10/18/23 1235				
2. Samples Received by / Company	Date/Time	1. Samples Received by / Company	Date/Time		2. Samples Relinquished by / Company
		July	10/18/23 1235		Ali Reach / Langan
3. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time		3. Samples Received by / Company
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time		Samples Received in LAB by
					Ali Reach / Langan
					Date/Time
					Temperature
					17.7
					Degrees C

York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

CLASS: VOA

METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Client Sample Id:

PMW01_S_101723

PMW01_S_101723

PMW02_S_101723

PMW02_S_101723

PMW01_D_101723

PMW01_D_101723

PMW02_D_101723

GWDUP01_101723

GWDUP01_101723

FB01_101723

TB01_101723

Lab Sample Id:

23J1154-01

23J1154-01RE1

23J1154-02

23J1154-02RE1

23J1154-03

23J1154-03RE1

23J1154-04

23J1154-05

23J1154-05RE1

23J1154-06

23J1154-07

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Cassie L. Mosher

Date: 10/24/2023 Title: Laboratory Manager

FORM II

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Sequence: S3J2001 Instrument: QVOA6
 Calibration: SI30036

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BJ31344-BS1) Lab File ID: QV6252577.D Analyzed: 10/19/23 10:41								
SURR: 1,2-Dichloroethane-d4	10.0	95.1	69 - 130	5.391	5.392667	-0.0017	+/-0.50	
SURR: Toluene-d8	10.0	104	81 - 117	7.233	7.234222	-0.0012	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	103	79 - 122	10.018	10.02056	-0.0026	+/-0.50	
LCS Dup (BJ31344-BSD1) Lab File ID: QV6252578.D Analyzed: 10/19/23 11:06								
SURR: 1,2-Dichloroethane-d4	10.0	100	69 - 130	5.391	5.392667	-0.0017	+/-0.50	
SURR: Toluene-d8	10.0	103	81 - 117	7.235	7.234222	0.0008	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	98.5	79 - 122	10.02	10.02056	-0.0006	+/-0.50	
Blank (BJ31344-BLK1) Lab File ID: QV6252581.D Analyzed: 10/19/23 12:19								
SURR: 1,2-Dichloroethane-d4	10.0	89.4	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	106	81 - 117	7.235	7.234222	0.0008	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	114	79 - 122	10.02	10.02056	-0.0006	+/-0.50	
TB01_101723 (23J1154-07) Lab File ID: QV6252583.D Analyzed: 10/19/23 13:19								
SURR: 1,2-Dichloroethane-d4	10.0	103	69 - 130	5.391	5.392667	-0.0017	+/-0.50	
SURR: Toluene-d8	10.0	103	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	103	79 - 122	10.021	10.02056	0.0004	+/-0.50	
FB01_101723 (23J1154-06) Lab File ID: QV6252585.D Analyzed: 10/19/23 14:09								
SURR: 1,2-Dichloroethane-d4	10.0	105	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	102	81 - 117	7.238	7.234222	0.0038	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	99.7	79 - 122	10.021	10.02056	0.0004	+/-0.50	
PMW01_S_101723 (23J1154-01) Lab File ID: QV6252586.D Analyzed: 10/19/23 14:33								
SURR: 1,2-Dichloroethane-d4	10.0	109	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	102	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	96.2	79 - 122	10.023	10.02056	0.0024	+/-0.50	
PMW02_S_101723 (23J1154-02) Lab File ID: QV6252588.D Analyzed: 10/19/23 15:22								
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	103	81 - 117	7.235	7.234222	0.0008	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	96.3	79 - 122	10.021	10.02056	0.0004	+/-0.50	
PMW01_D_101723 (23J1154-03) Lab File ID: QV6252590.D Analyzed: 10/19/23 16:12								
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	103	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	95.9	79 - 122	10.021	10.02056	0.0004	+/-0.50	

FORM II

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Sequence: S3J2001 Instrument: QVOA6
 Calibration: SI30036

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
PMW02_D_101723 (23J1154-04) Lab File ID: QV6252592.D Analyzed: 10/19/23 17:01								
SURR: 1,2-Dichloroethane-d4	10.0	106	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	103	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	96.8	79 - 122	10.021	10.02056	0.0004	+/-0.50	
GWDUP01_101723 (23J1154-05) Lab File ID: QV6252594.D Analyzed: 10/19/23 17:51								
SURR: 1,2-Dichloroethane-d4	10.0	109	69 - 130	5.391	5.392667	-0.0017	+/-0.50	
SURR: Toluene-d8	10.0	103	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	97.2	79 - 122	10.021	10.02056	0.0004	+/-0.50	
Matrix Spike (BJ31344-MS1) Lab File ID: QV6252596.D Analyzed: 10/19/23 18:40								
SURR: 1,2-Dichloroethane-d4	10.0	106	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	102	81 - 117	7.235	7.234222	0.0008	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	96.4	79 - 122	10.02	10.02056	-0.0006	+/-0.50	
Matrix Spike Dup (BJ31344-MSD1) Lab File ID: QV6252598.D Analyzed: 10/19/23 19:29								
SURR: 1,2-Dichloroethane-d4	10.0	106	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	102	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	95.0	79 - 122	10.021	10.02056	0.0004	+/-0.50	

FORM II

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Sequence: S3J2002 Instrument: QVOA6
 Calibration: SI30036

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BJ31371-BS1) Lab File ID: QV6252604.D Analyzed: 10/19/23 21:57								
SURR: 1,2-Dichloroethane-d4	10.0	102	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	103	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	98.9	79 - 122	10.023	10.02056	0.0024	+/-0.50	
LCS Dup (BJ31371-BSD1) Lab File ID: QV6252605.D Analyzed: 10/19/23 22:22								
SURR: 1,2-Dichloroethane-d4	10.0	103	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	102	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	97.6	79 - 122	10.021	10.02056	0.0004	+/-0.50	
Blank (BJ31371-BLK1) Lab File ID: QV6252607.D Analyzed: 10/19/23 23:11								
SURR: 1,2-Dichloroethane-d4	10.0	103	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	102	81 - 117	7.235	7.234222	0.0008	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	103	79 - 122	10.021	10.02056	0.0004	+/-0.50	
PMW01_S_101723 (23J1154-01RE1) Lab File ID: QV6252613.D Analyzed: 10/20/23 01:38								
SURR: 1,2-Dichloroethane-d4	10.0	105	69 - 130	5.391	5.392667	-0.0017	+/-0.50	
SURR: Toluene-d8	10.0	103	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	102	79 - 122	10.023	10.02056	0.0024	+/-0.50	
PMW02_S_101723 (23J1154-02RE1) Lab File ID: QV6252619.D Analyzed: 10/20/23 04:06								
SURR: 1,2-Dichloroethane-d4	10.0	104	69 - 130	5.391	5.392667	-0.0017	+/-0.50	
SURR: Toluene-d8	10.0	104	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	103	79 - 122	10.021	10.02056	0.0004	+/-0.50	
PMW01_D_101723 (23J1154-03RE1) Lab File ID: QV6252620.D Analyzed: 10/20/23 04:30								
SURR: 1,2-Dichloroethane-d4	10.0	107	69 - 130	5.391	5.392667	-0.0017	+/-0.50	
SURR: Toluene-d8	10.0	104	81 - 117	7.235	7.234222	0.0008	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	104	79 - 122	10.02	10.02056	-0.0006	+/-0.50	
GWDUP01_101723 (23J1154-05RE1) Lab File ID: QV6252622.D Analyzed: 10/20/23 05:19								
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.394	5.392667	0.0013	+/-0.50	
SURR: Toluene-d8	10.0	104	81 - 117	7.236	7.234222	0.0018	+/-0.50	
SURR: p-Bromofluorobenzene	10.0	104	79 - 122	10.021	10.02056	0.0004	+/-0.50	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

PMW02 D 101723

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Matrix: Water

Batch: BJ31344

Laboratory ID: BJ31344-MS1

Preparation: EPA 5030B

Initial/Final: 25 mL / 25 mL

Source Sample Name: PMW02_D_101723

COMPOUND	SPIKE ADDED ppb	SAMPLE CONCENTRATION ppb	MS CONCENTRATION ppb	MS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	0.00	10.5	105	45 - 161
1,1,1-Trichloroethane	10.0	0.00	10.5	105	70 - 146
1,1,2,2-Tetrachloroethane	10.0	0.00	10.9	109	74 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	0.00	10.8	108	21 - 217
1,1,2-Trichloroethane	10.0	0.00	10.7	107	59 - 146
1,1-Dichloroethane	10.0	0.00	10.6	106	54 - 146
1,1-Dichloroethylene	10.0	0.00	11.4	114	44 - 165
1,2,3-Trichlorobenzene	10.0	0.00	10.4	104	40 - 161
1,2,3-Trichloropropane	10.0	0.00	10.2	102	74 - 127
1,2,4-Trichlorobenzene	10.0	0.00	9.89	98.9	41 - 161
1,2,4-Trimethylbenzene	10.0	0.00	10.8	108	72 - 129
1,2-Dibromo-3-chloropropane	10.0	0.00	7.63	76.3	31 - 151
1,2-Dibromoethane	10.0	0.00	10.6	106	75 - 125
1,2-Dichlorobenzene	10.0	0.00	10.2	102	63 - 122
1,2-Dichloroethane	10.0	0.00	10.2	102	68 - 131
1,2-Dichloropropane	10.0	0.00	11.7	117	77 - 121
1,3,5-Trimethylbenzene	10.0	0.00	11.1	111	69 - 126
1,3-Dichlorobenzene	10.0	0.00	9.98	99.8	74 - 119
1,4-Dichlorobenzene	10.0	0.00	9.83	98.3	70 - 124
1,4-Dioxane	210	0.00	98.8	47.1	10 - 310
2-Butanone	10.0	0.00	9.40	94.0	10 - 193
2-Hexanone	10.0	0.170	9.80	96.3	53 - 133
4-Methyl-2-pentanone	10.0	0.00	10.2	102	38 - 150
Acetone	10.0	2.16	9.47	73.1	13 - 149
Acrolein	25.0	0.00	11.8	47.2	10 - 195
Acrylonitrile	10.0	0.00	9.60	96.0	37 - 165
Benzene	10.0	0.00	11.0	110	38 - 155
Bromochloromethane	10.0	0.00	10.7	107	75 - 121
Bromodichloromethane	10.0	0.00	10.2	102	70 - 129
Bromoform	10.0	0.00	7.45	74.5	66 - 136
Bromomethane	10.0	0.00	3.99	39.9	30 - 158

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

PMW02 D 101723

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Matrix: Water

Batch: BJ31344

Laboratory ID: BJ31344-MS1

Preparation: EPA 5030B

Initial/Final: 25 mL / 25 mL

Source Sample Name: PMW02_D_101723

COMPOUND	SPIKE ADDED ppb	SAMPLE CONCENTRATION ppb	MS CONCENTRATION ppb	MS % REC. #	QC LIMITS REC.
Carbon disulfide	10.0	0.00	10.3	103	10 - 138
Carbon tetrachloride	10.0	0.00	10.6	106	71 - 146
Chlorobenzene	10.0	0.00	10.8	108	81 - 117
Chloroethane	10.0	0.00	12.2	122	51 - 145
Chloroform	10.0	0.00	10.2	102	80 - 124
Chloromethane	10.0	0.00	9.64	96.4	16 - 163
cis-1,2-Dichloroethylene	10.0	2.07	13.0	109	76 - 125
cis-1,3-Dichloropropylene	10.0	0.00	10.4	104	58 - 131
Cyclohexane	10.0	0.00	5.25	52.5 *	70 - 130
Dibromochloromethane	10.0	0.00	10.2	102	71 - 129
Dibromomethane	10.0	0.00	10.4	104	76 - 120
Dichlorodifluoromethane	10.0	0.00	11.8	118	30 - 147
Ethyl Benzene	10.0	0.00	11.9	119	72 - 128
Hexachlorobutadiene	10.0	0.00	10.1	101	34 - 166
Isopropylbenzene	10.0	0.00	10.8	108	66 - 139
Methyl acetate	10.0	0.00	9.33	93.3	10 - 200
Methyl tert-butyl ether (MTBE)	10.0	0.00	10.1	101	75 - 128
Methylcyclohexane	10.0	0.00	10.9	109	70 - 130
Methylene chloride	10.0	0.620	10.9	102	57 - 128
n-Butylbenzene	10.0	0.00	11.2	112	61 - 138
n-Propylbenzene	10.0	0.00	10.8	108	66 - 134
o-Xylene	10.0	0.00	11.4	114	69 - 126
p- & m- Xylenes	20.0	0.00	23.4	117	67 - 130
p-Isopropyltoluene	10.0	0.00	10.7	107	64 - 137
sec-Butylbenzene	10.0	0.00	10.6	106	53 - 155
Styrene	10.0	0.00	11.0	110	69 - 125
tert-Butyl alcohol (TBA)	50.0	0.00	35.5	71.1	10 - 130
tert-Butylbenzene	10.0	0.00	9.11	91.1	65 - 139
Tetrachloroethylene	10.0	0.00	10.2	102	64 - 139
Toluene	10.0	0.230	11.5	113	76 - 123
trans-1,2-Dichloroethylene	10.0	0.00	10.9	109	79 - 131
trans-1,3-Dichloropropylene	10.0	0.00	10.1	101	55 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**EPA 8260C****PMW02 D 101723**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water
Batch: BJ31344 Laboratory ID: BJ31344-MS1
Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Source Sample Name: PMW02_D_101723

COMPOUND	SPIKE ADDED ppb	SAMPLE CONCENTRATION ppb	MS CONCENTRATION ppb	MS % REC. #	QC LIMITS REC.
Trichloroethylene	10.0	0.00	10.7	107	53 - 145
Trichlorofluoromethane	10.0	0.00	12.4	124	61 - 142
Vinyl Chloride	10.0	0.00	12.1	121	31 - 165

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

PMW02 D 101723

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Matrix: Water

Batch: BJ31344

Laboratory ID: BJ31344-MSD1

Preparation: EPA 5030B

Initial/Final: 25 mL / 25 mL

Source Sample Name: PMW02_D_101723

COMPOUND	SPIKE ADDED ppb	MSD CONCENTRATION ppb	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	10.0	10.6	106	0.758	30	45 - 161
1,1,1-Trichloroethane	10.0	10.5	105	0.190	30	70 - 146
1,1,2,2-Tetrachloroethane	10.0	11.2	112	3.44	30	74 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.6	106	1.59	30	21 - 217
1,1,2-Trichloroethane	10.0	10.9	109	1.48	30	59 - 146
1,1-Dichloroethane	10.0	10.5	105	0.568	30	54 - 146
1,1-Dichloroethylene	10.0	11.4	114	0.351	30	44 - 165
1,2,3-Trichlorobenzene	10.0	11.3	113	9.13	30	40 - 161
1,2,3-Trichloropropane	10.0	10.8	108	5.54	30	74 - 127
1,2,4-Trichlorobenzene	10.0	10.6	106	6.74	30	41 - 161
1,2,4-Trimethylbenzene	10.0	10.9	109	0.923	30	72 - 129
1,2-Dibromo-3-chloropropane	10.0	8.05	80.5	5.36	30	31 - 151
1,2-Dibromoethane	10.0	10.8	108	2.62	30	75 - 125
1,2-Dichlorobenzene	10.0	10.6	106	3.84	30	63 - 122
1,2-Dichloroethane	10.0	10.4	104	1.64	30	68 - 131
1,2-Dichloropropane	10.0	11.7	117	0.170	30	77 - 121
1,3,5-Trimethylbenzene	10.0	11.2	112	0.628	30	69 - 126
1,3-Dichlorobenzene	10.0	10.2	102	1.69	30	74 - 119
1,4-Dichlorobenzene	10.0	9.88	98.8	0.507	30	70 - 124
1,4-Dioxane	210	121	57.8	20.4	30	10 - 310
2-Butanone	10.0	10.1	101	6.88	30	10 - 193
2-Hexanone	10.0	10.6	104	7.84	30	53 - 133
4-Methyl-2-pentanone	10.0	11.1	111	9.20	30	38 - 150
Acetone	10.0	10.4	82.6	9.55	30	13 - 149
Acrolein	25.0	12.6	50.4	6.47	30	10 - 195
Acrylonitrile	10.0	10.0	100	4.38	30	37 - 165
Benzene	10.0	10.9	109	0.733	30	38 - 155
Bromochloromethane	10.0	10.6	106	1.03	30	75 - 121
Bromodichloromethane	10.0	10.5	105	2.22	30	70 - 129
Bromoform	10.0	7.77	77.7	4.20	30	66 - 136
Bromomethane	10.0	4.52	45.2	12.5	30	30 - 158
Carbon disulfide	10.0	10.3	103	0.388	30	10 - 138

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

PMW02 D 101723

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Matrix: Water

Batch: BJ31344

Laboratory ID: BJ31344-MSD1

Preparation: EPA 5030B

Initial/Final: 25 mL / 25 mL

Source Sample Name: PMW02_D_101723

COMPOUND	SPIKE ADDED ppb	MSD CONCENTRATION ppb	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Carbon tetrachloride	10.0	10.6	106	0.00	30	71 - 146
Chlorobenzene	10.0	10.9	109	0.923	30	81 - 117
Chloroethane	10.0	12.2	122	0.0821	30	51 - 145
Chloroform	10.0	10.3	103	0.292	30	80 - 124
Chloromethane	10.0	9.98	99.8	3.47	30	16 - 163
cis-1,2-Dichloroethylene	10.0	12.5	104	3.93	30	76 - 125
cis-1,3-Dichloropropylene	10.0	10.5	105	1.15	30	58 - 131
Cyclohexane	10.0	5.29	52.9 *	0.759	30	70 - 130
Dibromochloromethane	10.0	10.4	104	2.05	30	71 - 129
Dibromomethane	10.0	10.6	106	1.62	30	76 - 120
Dichlorodifluoromethane	10.0	11.8	118	0.0851	30	30 - 147
Ethyl Benzene	10.0	12.0	120	1.59	30	72 - 128
Hexachlorobutadiene	10.0	10.5	105	3.40	30	34 - 166
Isopropylbenzene	10.0	10.7	107	0.465	30	66 - 139
Methyl acetate	10.0	9.67	96.7	3.58	30	10 - 200
Methyl tert-butyl ether (MTBE)	10.0	10.8	108	6.04	30	75 - 128
Methylcyclohexane	10.0	11.0	110	1.28	30	70 - 130
Methylene chloride	10.0	10.8	102	0.461	30	57 - 128
n-Butylbenzene	10.0	11.3	113	1.24	30	61 - 138
n-Propylbenzene	10.0	10.8	108	0.00	30	66 - 134
o-Xylene	10.0	11.6	116	1.39	30	69 - 126
p- & m- Xylenes	20.0	23.8	119	1.40	30	67 - 130
p-Isopropyltoluene	10.0	10.8	108	0.934	30	64 - 137
sec-Butylbenzene	10.0	10.6	106	0.377	30	53 - 155
Styrene	10.0	11.4	114	3.13	30	69 - 125
tert-Butyl alcohol (TBA)	50.0	39.5	79.0	10.6	30	10 - 130
tert-Butylbenzene	10.0	9.16	91.6	0.547	30	65 - 139
Tetrachloroethylene	10.0	10.3	103	0.978	30	64 - 139
Toluene	10.0	11.7	114	1.21	30	76 - 123
trans-1,2-Dichloroethylene	10.0	10.9	109	0.367	30	79 - 131
trans-1,3-Dichloropropylene	10.0	10.4	104	3.32	30	55 - 130
Trichloroethylene	10.0	10.8	108	1.21	30	53 - 145
Trichlorofluoromethane	10.0	12.4	124	0.726	30	61 - 142

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**EPA 8260C****PMW02 D 101723**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water
Batch: BJ31344 Laboratory ID: BJ31344-MSD1
Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Source Sample Name: PMW02_D_101723

COMPOUND	SPIKE ADDED ppb	MSD CONCENTRATION ppb	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Vinyl Chloride	10.0	12.2	122	0.739	30	31 - 165

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Matrix: WaterBatch: BJ31344Laboratory ID: BJ31344-BS1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	10.3	103	82 - 126
1,1,1-Trichloroethane	10.0	10.0	100	78 - 136
1,1,2,2-Tetrachloroethane	10.0	10.5	105	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.2	102	54 - 165
1,1,2-Trichloroethane	10.0	9.70	97.0	82 - 123
1,1-Dichloroethane	10.0	10.2	102	82 - 129
1,1-Dichloroethylene	10.0	10.8	108	68 - 138
1,2,3-Trichlorobenzene	10.0	10.4	104	76 - 136
1,2,3-Trichloropropane	10.0	10.1	101	77 - 128
1,2,4-Trichlorobenzene	10.0	10.5	105	76 - 137
1,2,4-Trimethylbenzene	10.0	12.0	120	82 - 132
1,2-Dibromo-3-chloropropane	10.0	8.14	81.4	45 - 147
1,2-Dibromoethane	10.0	9.89	98.9	83 - 124
1,2-Dichlorobenzene	10.0	11.0	110	79 - 123
1,2-Dichloroethane	10.0	9.62	96.2	73 - 132
1,2-Dichloropropane	10.0	11.4	114	78 - 126
1,3,5-Trimethylbenzene	10.0	12.4	124	80 - 131
1,3-Dichlorobenzene	10.0	11.1	111	86 - 122
1,4-Dichlorobenzene	10.0	10.9	109	85 - 124
1,4-Dioxane	210	86.3	41.1	10 - 349
2-Butanone	10.0	8.05	80.5	49 - 152
2-Hexanone	10.0	8.88	88.8	51 - 146
4-Methyl-2-pentanone	10.0	9.34	93.4	57 - 145
Acetone	10.0	32.1	321 *	14 - 150
Acrolein	25.0	10.3	41.2	10 - 153
Acrylonitrile	10.0	8.58	85.8	51 - 150
Benzene	10.0	10.4	104	85 - 126
Bromochloromethane	10.0	10.0	100	77 - 128
Bromodichloromethane	10.0	9.82	98.2	79 - 128
Bromoform	10.0	7.00	70.0 *	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Matrix: WaterBatch: BJ31344Laboratory ID: BJ31344-BS1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	4.74	47.4	43 - 168
Carbon disulfide	10.0	9.95	99.5	68 - 146
Carbon tetrachloride	10.0	10.2	102	77 - 141
Chlorobenzene	10.0	10.8	108	88 - 120
Chloroethane	10.0	11.6	116	65 - 136
Chloroform	10.0	9.83	98.3	82 - 128
Chloromethane	10.0	10.8	108	43 - 155
cis-1,2-Dichloroethylene	10.0	10.4	104	83 - 129
cis-1,3-Dichloropropylene	10.0	10.2	102	80 - 131
Cyclohexane	10.0	4.99	49.9 *	63 - 149
Dibromochloromethane	10.0	9.48	94.8	80 - 130
Dibromomethane	10.0	9.54	95.4	72 - 134
Dichlorodifluoromethane	10.0	11.8	118	44 - 144
Ethyl Benzene	10.0	11.8	118	80 - 131
Hexachlorobutadiene	10.0	10.6	106	67 - 146
Isopropylbenzene	10.0	11.8	118	76 - 140
Methyl acetate	10.0	8.03	80.3	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.09	90.9	76 - 135
Methylcyclohexane	10.0	10.8	108	72 - 143
Methylene chloride	10.0	9.74	97.4	55 - 137
n-Butylbenzene	10.0	12.7	127	79 - 132
n-Propylbenzene	10.0	12.0	120	78 - 133
o-Xylene	10.0	11.4	114	78 - 130
p- & m- Xylenes	20.0	23.4	117	77 - 133
p-Isopropyltoluene	10.0	12.1	121	81 - 136
sec-Butylbenzene	10.0	11.8	118	79 - 137
Styrene	10.0	11.1	111	67 - 132
tert-Butyl alcohol (TBA)	50.0	25.9	51.8	25 - 162
tert-Butylbenzene	10.0	10.1	101	77 - 138
Tetrachloroethylene	10.0	10.2	102	82 - 131

FORM III**LCS / LCS DUPLICATE RECOVERY****EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water
Batch: BJ31344 Laboratory ID: BJ31344-BS1
Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	11.2	112	80 - 127
trans-1,2-Dichloroethylene	10.0	10.4	104	80 - 132
trans-1,3-Dichloropropylene	10.0	9.77	97.7	78 - 131
Trichloroethylene	10.0	10.6	106	82 - 128
Trichlorofluoromethane	10.0	11.6	116	67 - 139
Vinyl Chloride	10.0	12.0	120	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Matrix: WaterBatch: BJ31344Laboratory ID: BJ31344-BSD1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	10.0	10.4	104	1.35	30	82 - 126
1,1,1-Trichloroethane	10.0	9.67	96.7	3.46	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11.2	112	5.89	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.82	98.2	4.19	30	54 - 165
1,1,2-Trichloroethane	10.0	10.4	104	6.68	30	82 - 123
1,1-Dichloroethane	10.0	9.98	99.8	1.98	30	82 - 129
1,1-Dichloroethylene	10.0	10.2	102	5.25	30	68 - 138
1,2,3-Trichlorobenzene	10.0	11.2	112	7.96	30	76 - 136
1,2,3-Trichloropropane	10.0	10.6	106	4.26	30	77 - 128
1,2,4-Trichlorobenzene	10.0	10.8	108	2.92	30	76 - 137
1,2,4-Trimethylbenzene	10.0	11.2	112	6.91	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	8.69	86.9	6.54	30	45 - 147
1,2-Dibromoethane	10.0	10.5	105	6.27	30	83 - 124
1,2-Dichlorobenzene	10.0	10.8	108	1.75	30	79 - 123
1,2-Dichloroethane	10.0	10.1	101	4.87	30	73 - 132
1,2-Dichloropropane	10.0	11.4	114	0.175	30	78 - 126
1,3,5-Trimethylbenzene	10.0	11.4	114	8.15	30	80 - 131
1,3-Dichlorobenzene	10.0	10.5	105	6.11	30	86 - 122
1,4-Dichlorobenzene	10.0	10.4	104	4.04	30	85 - 124
1,4-Dioxane	210	113	53.9	27.0	30	10 - 349
2-Butanone	10.0	8.43	84.3	4.61	30	49 - 152
2-Hexanone	10.0	10.1	101	12.7	30	51 - 146
4-Methyl-2-pentanone	10.0	10.7	107	13.6	30	57 - 145
Acetone	10.0	39.8	398 *	21.4	30	14 - 150
Acrolein	25.0	11.8	47.1	13.3	30	10 - 153
Acrylonitrile	10.0	9.68	96.8	12.0	30	51 - 150
Benzene	10.0	10.3	103	1.16	30	85 - 126
Bromochloromethane	10.0	10.2	102	1.29	30	77 - 128
Bromodichloromethane	10.0	9.88	98.8	0.609	30	79 - 128
Bromoform	10.0	7.84	78.4	11.3	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Matrix: WaterBatch: BJ31344Laboratory ID: BJ31344-BSD1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromomethane	10.0	4.30	43.0	9.73	30	43 - 168
Carbon disulfide	10.0	9.40	94.0	5.68	30	68 - 146
Carbon tetrachloride	10.0	9.72	97.2	4.62	30	77 - 141
Chlorobenzene	10.0	10.7	107	1.30	30	88 - 120
Chloroethane	10.0	11.2	112	4.04	30	65 - 136
Chloroform	10.0	9.84	98.4	0.102	30	82 - 128
Chloromethane	10.0	9.93	99.3	8.21	30	43 - 155
cis-1,2-Dichloroethylene	10.0	10.3	103	0.867	30	83 - 129
cis-1,3-Dichloropropylene	10.0	10.4	104	1.85	30	80 - 131
Cyclohexane	10.0	4.75	47.5 *	4.93	30	63 - 149
Dibromochloromethane	10.0	10.1	101	6.43	30	80 - 130
Dibromomethane	10.0	10.1	101	5.90	30	72 - 134
Dichlorodifluoromethane	10.0	11.0	110	7.08	30	44 - 144
Ethyl Benzene	10.0	11.5	115	2.83	30	80 - 131
Hexachlorobutadiene	10.0	10.1	101	5.21	30	67 - 146
Isopropylbenzene	10.0	10.8	108	9.19	30	76 - 140
Methyl acetate	10.0	9.13	91.3	12.8	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10.2	102	11.5	30	76 - 135
Methylcyclohexane	10.0	10.3	103	5.21	30	72 - 143
Methylene chloride	10.0	9.76	97.6	0.205	30	55 - 137
n-Butylbenzene	10.0	11.6	116	9.23	30	79 - 132
n-Propylbenzene	10.0	10.9	109	9.27	30	78 - 133
o-Xylene	10.0	11.2	112	1.24	30	78 - 130
p- & m- Xylenes	20.0	22.8	114	2.81	30	77 - 133
p-Isopropyltoluene	10.0	11.0	110	9.18	30	81 - 136
sec-Butylbenzene	10.0	10.7	107	10.1	30	79 - 137
Styrene	10.0	11.1	111	0.541	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	33.7	67.4	26.1	30	25 - 162
tert-Butylbenzene	10.0	9.20	92.0	9.72	30	77 - 138
Tetrachloroethylene	10.0	9.78	97.8	4.50	30	82 - 131

LCS / LCS DUPLICATE RECOVERY
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)Project: 170199901

Matrix: Water

Batch: BJ31344Laboratory ID: BJ31344-BSD1

Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Toluene	10.0	11.0	110	2.52	30	80 - 127
trans-1,2-Dichloroethylene	10.0	10.1	101	3.22	30	80 - 132
trans-1,3-Dichloropropylene	10.0	10.4	104	5.96	30	78 - 131
Trichloroethylene	10.0	10.2	102	4.71	30	82 - 128
Trichlorofluoromethane	10.0	11.0	110	5.22	30	67 - 139
Vinyl Chloride	10.0	11.0	110	8.36	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Matrix: WaterBatch: BJ31371Laboratory ID: BJ31371-BS1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	10.9	109	82 - 126
1,1,1-Trichloroethane	10.0	10.2	102	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11.5	115	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.2	102	54 - 165
1,1,2-Trichloroethane	10.0	10.8	108	82 - 123
1,1-Dichloroethane	10.0	10.4	104	82 - 129
1,1-Dichloroethylene	10.0	10.8	108	68 - 138
1,2,3-Trichlorobenzene	10.0	11.9	119	76 - 136
1,2,3-Trichloropropane	10.0	10.8	108	77 - 128
1,2,4-Trichlorobenzene	10.0	11.4	114	76 - 137
1,2,4-Trimethylbenzene	10.0	11.7	117	82 - 132
1,2-Dibromo-3-chloropropane	10.0	8.92	89.2	45 - 147
1,2-Dibromoethane	10.0	11.0	110	83 - 124
1,2-Dichlorobenzene	10.0	11.3	113	79 - 123
1,2-Dichloroethane	10.0	10.4	104	73 - 132
1,2-Dichloropropane	10.0	11.8	118	78 - 126
1,3,5-Trimethylbenzene	10.0	12.0	120	80 - 131
1,3-Dichlorobenzene	10.0	11.0	110	86 - 122
1,4-Dichlorobenzene	10.0	10.9	109	85 - 124
1,4-Dioxane	210	108	51.4	10 - 349
2-Butanone	10.0	9.01	90.1	49 - 152
2-Hexanone	10.0	10.5	105	51 - 146
4-Methyl-2-pentanone	10.0	11.0	110	57 - 145
Acetone	10.0	8.20	82.0	14 - 150
Acrolein	25.0	12.0	48.0	10 - 153
Acrylonitrile	10.0	10.0	100	51 - 150
Benzene	10.0	10.8	108	85 - 126
Bromochloromethane	10.0	10.7	107	77 - 128
Bromodichloromethane	10.0	10.6	106	79 - 128
Bromoform	10.0	7.82	78.2	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Matrix: WaterBatch: BJ31371Laboratory ID: BJ31371-BS1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	5.35	53.5	43 - 168
Carbon disulfide	10.0	9.92	99.2	68 - 146
Carbon tetrachloride	10.0	10.3	103	77 - 141
Chlorobenzene	10.0	11.1	111	88 - 120
Chloroethane	10.0	11.7	117	65 - 136
Chloroform	10.0	10.4	104	82 - 128
Chloromethane	10.0	10.1	101	43 - 155
cis-1,2-Dichloroethylene	10.0	10.8	108	83 - 129
cis-1,3-Dichloropropylene	10.0	10.6	106	80 - 131
Cyclohexane	10.0	5.07	50.7 *	63 - 149
Dibromochloromethane	10.0	10.3	103	80 - 130
Dibromomethane	10.0	10.7	107	72 - 134
Dichlorodifluoromethane	10.0	11.2	112	44 - 144
Ethyl Benzene	10.0	12.2	122	80 - 131
Hexachlorobutadiene	10.0	10.8	108	67 - 146
Isopropylbenzene	10.0	11.4	114	76 - 140
Methyl acetate	10.0	9.32	93.2	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10.4	104	76 - 135
Methylcyclohexane	10.0	11.0	110	72 - 143
Methylene chloride	10.0	10.2	102	55 - 137
n-Butylbenzene	10.0	12.2	122	79 - 132
n-Propylbenzene	10.0	11.5	115	78 - 133
o-Xylene	10.0	11.8	118	78 - 130
p- & m- Xylenes	20.0	24.2	121	77 - 133
p-Isopropyltoluene	10.0	11.6	116	81 - 136
sec-Butylbenzene	10.0	11.2	112	79 - 137
Styrene	10.0	11.6	116	67 - 132
tert-Butyl alcohol (TBA)	50.0	32.4	64.8	25 - 162
tert-Butylbenzene	10.0	9.64	96.4	77 - 138
Tetrachloroethylene	10.0	10.4	104	82 - 131

FORM III**LCS / LCS DUPLICATE RECOVERY****EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water
Batch: BJ31371 Laboratory ID: BJ31371-BS1
Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	11.6	116	80 - 127
trans-1,2-Dichloroethylene	10.0	10.6	106	80 - 132
trans-1,3-Dichloropropylene	10.0	10.4	104	78 - 131
Trichloroethylene	10.0	10.8	108	82 - 128
Trichlorofluoromethane	10.0	11.7	117	67 - 139
Vinyl Chloride	10.0	11.6	116	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Matrix: WaterBatch: BJ31371Laboratory ID: BJ31371-BS01Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	10.0	10.5	105	3.37	30	82 - 126
1,1,1-Trichloroethane	10.0	9.86	98.6	3.39	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11.3	113	2.02	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.96	99.6	2.87	30	54 - 165
1,1,2-Trichloroethane	10.0	10.9	109	0.276	30	82 - 123
1,1-Dichloroethane	10.0	10.2	102	2.43	30	82 - 129
1,1-Dichloroethylene	10.0	10.5	105	3.01	30	68 - 138
1,2,3-Trichlorobenzene	10.0	11.8	118	0.507	30	76 - 136
1,2,3-Trichloropropane	10.0	10.7	107	0.372	30	77 - 128
1,2,4-Trichlorobenzene	10.0	11.0	110	3.39	30	76 - 137
1,2,4-Trimethylbenzene	10.0	11.1	111	4.82	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.05	90.5	1.45	30	45 - 147
1,2-Dibromoethane	10.0	10.9	109	1.28	30	83 - 124
1,2-Dichlorobenzene	10.0	10.9	109	3.43	30	79 - 123
1,2-Dichloroethane	10.0	10.3	103	1.06	30	73 - 132
1,2-Dichloropropane	10.0	11.5	115	2.40	30	78 - 126
1,3,5-Trimethylbenzene	10.0	11.4	114	4.69	30	80 - 131
1,3-Dichlorobenzene	10.0	10.5	105	4.27	30	86 - 122
1,4-Dichlorobenzene	10.0	10.5	105	3.84	30	85 - 124
1,4-Dioxane	210	114	54.5	5.93	30	10 - 349
2-Butanone	10.0	9.15	91.5	1.54	30	49 - 152
2-Hexanone	10.0	10.5	105	0.191	30	51 - 146
4-Methyl-2-pentanone	10.0	10.8	108	1.29	30	57 - 145
Acetone	10.0	9.01	90.1	9.41	30	14 - 150
Acrolein	25.0	12.0	47.9	0.250	30	10 - 153
Acrylonitrile	10.0	10.0	100	0.199	30	51 - 150
Benzene	10.0	10.6	106	2.52	30	85 - 126
Bromochloromethane	10.0	10.7	107	0.281	30	77 - 128
Bromodichloromethane	10.0	10.3	103	3.17	30	79 - 128
Bromoform	10.0	7.77	77.7	*	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Matrix: WaterBatch: BJ31371Laboratory ID: BJ31371-BSD1Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromomethane	10.0	5.37	53.7	0.373	30	43 - 168
Carbon disulfide	10.0	9.62	96.2	3.07	30	68 - 146
Carbon tetrachloride	10.0	9.90	99.0	4.15	30	77 - 141
Chlorobenzene	10.0	10.8	108	3.38	30	88 - 120
Chloroethane	10.0	11.3	113	3.22	30	65 - 136
Chloroform	10.0	10.2	102	2.33	30	82 - 128
Chloromethane	10.0	9.85	98.5	2.70	30	43 - 155
cis-1,2-Dichloroethylene	10.0	10.5	105	2.73	30	83 - 129
cis-1,3-Dichloropropylene	10.0	10.3	103	3.15	30	80 - 131
Cyclohexane	10.0	4.89	48.9 *	3.61	30	63 - 149
Dibromochloromethane	10.0	10.2	102	0.975	30	80 - 130
Dibromomethane	10.0	10.5	105	1.70	30	72 - 134
Dichlorodifluoromethane	10.0	10.7	107	4.49	30	44 - 144
Ethyl Benzene	10.0	11.7	117	3.85	30	80 - 131
Hexachlorobutadiene	10.0	10.4	104	3.20	30	67 - 146
Isopropylbenzene	10.0	10.8	108	5.33	30	76 - 140
Methyl acetate	10.0	9.48	94.8	1.70	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10.5	105	0.953	30	76 - 135
Methylcyclohexane	10.0	10.5	105	4.58	30	72 - 143
Methylene chloride	10.0	10.1	101	1.77	30	55 - 137
n-Butylbenzene	10.0	11.6	116	4.96	30	79 - 132
n-Propylbenzene	10.0	10.9	109	5.19	30	78 - 133
o-Xylene	10.0	11.4	114	3.80	30	78 - 130
p- & m- Xylenes	20.0	23.1	116	4.35	30	77 - 133
p-Isopropyltoluene	10.0	11.0	110	4.95	30	81 - 136
sec-Butylbenzene	10.0	10.7	107	4.66	30	79 - 137
Styrene	10.0	11.2	112	3.33	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	34.8	69.6	7.12	30	25 - 162
tert-Butylbenzene	10.0	9.26	92.6	4.02	30	77 - 138
Tetrachloroethylene	10.0	9.87	98.7	5.61	30	82 - 131

LCS / LCS DUPLICATE RECOVERY
EPA 8260C

Laboratory:York Analytical Laboratories, Inc. - StratfordSDG:23J1154

Client:Langan Engineering & Environmental Services (NYC)Project:170199901

Matrix:Water

Batch:BJ31371Laboratory ID:BJ31371-BSD1

Preparation:EPA 5030BInitial/Final:25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Toluene	10.0	11.1	111	3.96	30	80 - 127
trans-1,2-Dichloroethylene	10.0	10.3	103	3.54	30	80 - 132
trans-1,3-Dichloropropylene	10.0	10.3	103	1.45	30	78 - 131
Trichloroethylene	10.0	10.4	104	4.24	30	82 - 128
Trichlorofluoromethane	10.0	11.3	113	3.22	30	67 - 139
Vinyl Chloride	10.0	11.1	111	4.85	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV**PREPARATION BATCH SUMMARY****EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Batch: BJ31344 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PMW01_S_101723	23J1154-01	QV6252586.D	10/19/23 06:15	
PMW02_S_101723	23J1154-02	QV6252588.D	10/19/23 06:15	
PMW01_D_101723	23J1154-03	QV6252590.D	10/19/23 06:15	
PMW02_D_101723	23J1154-04	QV6252592.D	10/19/23 06:15	
GWDUP01_101723	23J1154-05	QV6252594.D	10/19/23 06:15	
FB01_101723	23J1154-06	QV6252585.D	10/19/23 06:15	
TB01_101723	23J1154-07	QV6252583.D	10/19/23 06:15	
Blank	BJ31344-BLK1	QV6252581.D	10/19/23 06:15	
LCS	BJ31344-BS1	QV6252577.D	10/19/23 06:15	
LCS Dup	BJ31344-BSD1	QV6252578.D	10/19/23 06:15	
PMW02_D_101723	BJ31344-MS1	QV6252596.D	10/19/23 06:15	
PMW02_D_101723	BJ31344-MSD1	QV6252598.D	10/19/23 06:15	

FORM IV**PREPARATION BATCH SUMMARY****EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Batch: BJ31371 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PMW01_S_101723	23J1154-01RE1	QV6252613.D	10/19/23 06:17	From BJ31344 by JTG on 10/19/2023
PMW02_S_101723	23J1154-02RE1	QV6252619.D	10/19/23 06:17	From BJ31344 by JTG on 10/19/2023
PMW01_D_101723	23J1154-03RE1	QV6252620.D	10/19/23 06:17	From BJ31344 by JTG on 10/19/2023
GWDUP01_101723	23J1154-05RE1	QV6252622.D	10/19/23 06:17	From BJ31344 by JTG on 10/19/2023
Blank	BJ31371-BLK1	QV6252607.D	10/19/23 06:17	
LCS	BJ31371-BS1	QV6252604.D	10/19/23 06:17	
LCS Dup	BJ31371-BSD1	QV6252605.D	10/19/23 06:17	

FORM I**METHOD BLANK DATA SHEET
EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water Laboratory ID: BJ31344-BLK1 File ID: QV6252581.D
Prepared: 10/19/23 06:15 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Analyzed: 10/19/23 12:19 Instrument: QVOA6
Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.500	U
71-55-6	1,1,1-Trichloroethane	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.500	U
79-00-5	1,1,2-Trichloroethane	0.500	U
75-34-3	1,1-Dichloroethane	0.500	U
75-35-4	1,1-Dichloroethylene	0.500	U
87-61-6	1,2,3-Trichlorobenzene	0.500	U
96-18-4	1,2,3-Trichloropropane	0.500	U
120-82-1	1,2,4-Trichlorobenzene	0.500	U
95-63-6	1,2,4-Trimethylbenzene	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	0.500	U
106-93-4	1,2-Dibromoethane	0.500	U
95-50-1	1,2-Dichlorobenzene	0.500	U
107-06-2	1,2-Dichloroethane	0.500	U
78-87-5	1,2-Dichloropropane	0.500	U
108-67-8	1,3,5-Trimethylbenzene	0.500	U
541-73-1	1,3-Dichlorobenzene	0.500	U
106-46-7	1,4-Dichlorobenzene	0.500	U
123-91-1	1,4-Dioxane	80.0	U
78-93-3	2-Butanone	0.500	U
591-78-6	2-Hexanone	0.500	U
108-10-1	4-Methyl-2-pentanone	0.500	U
67-64-1	Acetone	2.00	U
107-02-8	Acrolein	0.500	U
107-13-1	Acrylonitrile	0.500	U
71-43-2	Benzene	0.500	U
74-97-5	Bromochloromethane	0.500	U
75-27-4	Bromodichloromethane	0.500	U
75-25-2	Bromoform	0.500	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Water Laboratory ID: BJ31344-BLK1 File ID: QV6252581.D
 Prepared: 10/19/23 06:15 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 10/19/23 12:19 Instrument: QVOA6
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.500	U
75-15-0	Carbon disulfide	0.500	U
56-23-5	Carbon tetrachloride	0.500	U
108-90-7	Chlorobenzene	0.500	U
75-00-3	Chloroethane	0.500	U
67-66-3	Chloroform	0.500	U
74-87-3	Chloromethane	0.500	U
156-59-2	cis-1,2-Dichloroethylene	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	0.500	U
110-82-7	Cyclohexane	0.500	U
124-48-1	Dibromochloromethane	0.500	U
74-95-3	Dibromomethane	0.500	U
75-71-8	Dichlorodifluoromethane	0.500	U
100-41-4	Ethyl Benzene	0.500	U
87-68-3	Hexachlorobutadiene	0.500	U
98-82-8	Isopropylbenzene	0.500	U
79-20-9	Methyl acetate	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.500	U
108-87-2	Methylcyclohexane	0.500	U
75-09-2	Methylene chloride	2.00	U
104-51-8	n-Butylbenzene	0.500	U
103-65-1	n-Propylbenzene	0.500	U
95-47-6	o-Xylene	0.500	U
179601-23-1	p- & m- Xylenes	1.00	U
99-87-6	p-Isopropyltoluene	0.500	U
135-98-8	sec-Butylbenzene	0.500	U
100-42-5	Styrene	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1.00	U
98-06-6	tert-Butylbenzene	0.500	U
127-18-4	Tetrachloroethylene	0.500	U

FORM I**METHOD BLANK DATA SHEET
EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water Laboratory ID: BJ31344-BLK1 File ID: QV6252581.D
Prepared: 10/19/23 06:15 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Analyzed: 10/19/23 12:19 Instrument: QVOA6
Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.500	U
156-60-5	trans-1,2-Dichloroethylene	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	0.500	U
79-01-6	Trichloroethylene	0.500	U
75-69-4	Trichlorofluoromethane	0.500	U
75-01-4	Vinyl Chloride	0.500	U
1330-20-7	Xylenes, Total	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	8.94	89.4	69 - 130	
SURR: p-Bromofluorobenzene	10.0	11.4	114	79 - 122	
SURR: Toluene-d8	10.0	10.6	106	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	159568	11.715	219846	11.715	
ISTD: Chlorobenzene-d5	640728	8.738	699711	8.732	
ISTD: Fluorobenzene	177817	5.7	185237	5.697	

FORM I**METHOD BLANK DATA SHEET
EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water Laboratory ID: BJ31371-BLK1 File ID: QV6252607.D
Prepared: 10/19/23 06:17 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Analyzed: 10/19/23 23:11 Instrument: QVOA6
Batch: BJ31371 Sequence: S3J2002 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.500	U
71-55-6	1,1,1-Trichloroethane	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.500	U
79-00-5	1,1,2-Trichloroethane	0.500	U
75-34-3	1,1-Dichloroethane	0.500	U
75-35-4	1,1-Dichloroethylene	0.500	U
87-61-6	1,2,3-Trichlorobenzene	0.500	U
96-18-4	1,2,3-Trichloropropane	0.500	U
120-82-1	1,2,4-Trichlorobenzene	0.500	U
95-63-6	1,2,4-Trimethylbenzene	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	0.500	U
106-93-4	1,2-Dibromoethane	0.500	U
95-50-1	1,2-Dichlorobenzene	0.500	U
107-06-2	1,2-Dichloroethane	0.500	U
78-87-5	1,2-Dichloropropane	0.500	U
108-67-8	1,3,5-Trimethylbenzene	0.500	U
541-73-1	1,3-Dichlorobenzene	0.500	U
106-46-7	1,4-Dichlorobenzene	0.500	U
123-91-1	1,4-Dioxane	80.0	U
78-93-3	2-Butanone	0.500	U
591-78-6	2-Hexanone	0.500	U
108-10-1	4-Methyl-2-pentanone	0.500	U
67-64-1	Acetone	2.00	U
107-02-8	Acrolein	0.500	U
107-13-1	Acrylonitrile	0.500	U
71-43-2	Benzene	0.500	U
74-97-5	Bromochloromethane	0.500	U
75-27-4	Bromodichloromethane	0.500	U
75-25-2	Bromoform	0.500	U

FORM I**METHOD BLANK DATA SHEET
EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water Laboratory ID: BJ31371-BLK1 File ID: QV6252607.D
Prepared: 10/19/23 06:17 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Analyzed: 10/19/23 23:11 Instrument: QVOA6
Batch: BJ31371 Sequence: S3J2002 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.500	U
75-15-0	Carbon disulfide	0.500	U
56-23-5	Carbon tetrachloride	0.500	U
108-90-7	Chlorobenzene	0.500	U
75-00-3	Chloroethane	0.500	U
67-66-3	Chloroform	0.500	U
74-87-3	Chloromethane	0.500	U
156-59-2	cis-1,2-Dichloroethylene	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	0.500	U
110-82-7	Cyclohexane	0.500	U
124-48-1	Dibromochloromethane	0.500	U
74-95-3	Dibromomethane	0.500	U
75-71-8	Dichlorodifluoromethane	0.500	U
100-41-4	Ethyl Benzene	0.500	U
87-68-3	Hexachlorobutadiene	0.500	U
98-82-8	Isopropylbenzene	0.500	U
79-20-9	Methyl acetate	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.500	U
108-87-2	Methylcyclohexane	0.500	U
75-09-2	Methylene chloride	2.00	U
104-51-8	n-Butylbenzene	0.500	U
103-65-1	n-Propylbenzene	0.500	U
95-47-6	o-Xylene	0.500	U
179601-23-1	p- & m- Xylenes	1.00	U
99-87-6	p-Isopropyltoluene	0.500	U
135-98-8	sec-Butylbenzene	0.500	U
100-42-5	Styrene	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1.00	U
98-06-6	tert-Butylbenzene	0.500	U
127-18-4	Tetrachloroethylene	0.500	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)Project: 170199901

Matrix: WaterLaboratory ID: BJ31371-BLK1File ID: QV6252607.D

Prepared: 10/19/23 06:17Preparation: EPA 5030BInitial/Final: 25 mL / 25 mL

Analyzed: 10/19/23 23:11Instrument: QVOA6

Batch: BJ31371Sequence: S3J2002Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.500	U
156-60-5	trans-1,2-Dichloroethylene	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	0.500	U
79-01-6	Trichloroethylene	0.500	U
75-69-4	Trichlorofluoromethane	0.500	U
75-01-4	Vinyl Chloride	0.500	U
1330-20-7	Xylenes, Total	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	194957	11.715	220537	11.715	
ISTD: Chlorobenzene-d5	648500	8.735	674501	8.735	
ISTD: Fluorobenzene	174355	5.7	178352	5.7	

FORM V

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:

York Analytical Laboratories, Inc. - Stratford

SDG:

23J1154

Client:

Langan Engineering & Environmental Services (NYC)

Project:

170199901

Lab File ID:

QV6251894.D

Injection Date:

09/26/23

Instrument ID:

QVOA6

Injection Time:

16:40

Sequence:

S3I2745

Lab Sample ID:

S3I2745-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.1	PASS
75	30 - 60% of 95	45	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.57	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	78	PASS
175	5 - 9% of 174	7.51	PASS
176	95 - 101% of 174	95.5	PASS
177	5 - 9% of 176	6.55	PASS

FORM V

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:

York Analytical Laboratories, Inc. - Stratford

SDG:

23J1154

Client:

Langan Engineering & Environmental Services (NYC)

Project:

170199901

Lab File ID:

QV6252575.D

Injection Date:

10/19/23

Instrument ID:

QVOA6

Injection Time:

09:35

Sequence:

S3J2001

Lab Sample ID:

S3J2001-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.6	PASS
75	30 - 60% of 95	44.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.88	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	77	PASS
175	5 - 9% of 174	7.55	PASS
176	95 - 101% of 174	97.1	PASS
177	5 - 9% of 176	6.76	PASS

FORM V

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:

York Analytical Laboratories, Inc. - Stratford

SDG:

23J1154

Client:

Langan Engineering & Environmental Services (NYC)

Project:

170199901

Lab File ID:

QV6252602.D

Injection Date:

10/19/23

Instrument ID:

QVOA6

Injection Time:

21:08

Sequence:

S3J2002

Lab Sample ID:

S3J2002-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.5	PASS
75	30 - 60% of 95	45.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.47	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	77.1	PASS
175	5 - 9% of 174	7.67	PASS
176	95 - 101% of 174	97.6	PASS
177	5 - 9% of 176	6.64	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:York Analytical Laboratories, Inc. - StratfordSDG:23J1154

Client:Langan Engineering & Environmental Services (NYC)Project:170199901

Sequence:S3I2745Instrument:QVOA6

Calibration:SI30036

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S3I2745-TUN1	QV6251894.D	09/26/23 16:40
Cal Standard	S3I2745-CAL1	QV6251896.D	09/26/23 17:29
Cal Standard	S3I2745-CAL2	QV6251897.D	09/26/23 17:53
Cal Standard	S3I2745-CAL3	QV6251898.D	09/26/23 18:18
Cal Standard	S3I2745-CAL4	QV6251899.D	09/26/23 18:42
Cal Standard	S3I2745-CAL5	QV6251900.D	09/26/23 19:07
Cal Standard	S3I2745-CAL6	QV6251901.D	09/26/23 19:32
Cal Standard	S3I2745-CAL7	QV6251902.D	09/26/23 19:56
Cal Standard	S3I2745-CAL8	QV6251903.D	09/26/23 20:20
Cal Standard	S3I2745-CAL9	QV6251904.D	09/26/23 20:45
Secondary Cal Check	S3I2745-SCV1	QV6251907.D	09/26/23 21:58

FORM V**ANALYSIS BATCH (SEQUENCE) SUMMARY****EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Sequence: S3J2001 Instrument: QVOA6
Calibration: SI30036

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S3J2001-TUN1	QV6252575.D	10/19/23 09:35
Calibration Check	S3J2001-CCV1	QV6252576.D	10/19/23 10:00
LCS	BJ31344-BS1	QV6252577.D	10/19/23 10:41
LCS Dup	BJ31344-BSD1	QV6252578.D	10/19/23 11:06
Blank	BJ31344-BLK1	QV6252581.D	10/19/23 12:19
TB01_101723	23J1154-07	QV6252583.D	10/19/23 13:19
FB01_101723	23J1154-06	QV6252585.D	10/19/23 14:09
PMW01_S_101723	23J1154-01	QV6252586.D	10/19/23 14:33
PMW02_S_101723	23J1154-02	QV6252588.D	10/19/23 15:22
PMW01_D_101723	23J1154-03	QV6252590.D	10/19/23 16:12
PMW02_D_101723	23J1154-04	QV6252592.D	10/19/23 17:01
GWDUP01_101723	23J1154-05	QV6252594.D	10/19/23 17:51
PMW02_D_101723	BJ31344-MS1	QV6252596.D	10/19/23 18:40
PMW02_D_101723	BJ31344-MSD1	QV6252598.D	10/19/23 19:29

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:York Analytical Laboratories, Inc. - StratfordSDG:23J1154

Client:Langan Engineering & Environmental Services (NYC)Project:170199901

Sequence:S3J2002Instrument:QVOA6

Calibration:SI30036

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S3J2002-TUN1	QV6252602.D	10/19/23 21:08
Calibration Check	S3J2002-CCV1	QV6252603.D	10/19/23 21:32
LCS	BJ31371-BS1	QV6252604.D	10/19/23 21:57
LCS Dup	BJ31371-BSD1	QV6252605.D	10/19/23 22:22
Blank	BJ31371-BLK1	QV6252607.D	10/19/23 23:11
PMW01_S_101723	23J1154-01RE1	QV6252613.D	10/20/23 01:38
PMW02_S_101723	23J1154-02RE1	QV6252619.D	10/20/23 04:06
PMW01_D_101723	23J1154-03RE1	QV6252620.D	10/20/23 04:30
GWDUP01_101723	23J1154-05RE1	QV6252622.D	10/20/23 05:19

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Sequence: S3I2745 Instrument: QVOA6
 Calibration: SI30036

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (S3I2745-CAL1) Lab File ID: QV6251896.D Analyzed: 09/26/23 17:29									
ISTD: Fluorobenzene	142927	5.697	148883	5.697	96	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	554488	8.735	581182	8.735	95	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	167391	11.715	189680	11.712	88	50 - 200	0.0030	+/-0.50	
Cal Standard (S3I2745-CAL2) Lab File ID: QV6251897.D Analyzed: 09/26/23 17:53									
ISTD: Fluorobenzene	145034	5.697	148883	5.697	97	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	567456	8.735	581182	8.735	98	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	177284	11.715	189680	11.712	93	50 - 200	0.0030	+/-0.50	
Cal Standard (S3I2745-CAL3) Lab File ID: QV6251898.D Analyzed: 09/26/23 18:18									
ISTD: Fluorobenzene	144780	5.697	148883	5.697	97	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	562689	8.735	581182	8.735	97	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	175832	11.715	189680	11.712	93	50 - 200	0.0030	+/-0.50	
Cal Standard (S3I2745-CAL4) Lab File ID: QV6251899.D Analyzed: 09/26/23 18:42									
ISTD: Fluorobenzene	148883	5.697	148883	5.697	100	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	581182	8.735	581182	8.735	100	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	189680	11.712	189680	11.712	100	50 - 200	0.0000	+/-0.50	
Cal Standard (S3I2745-CAL5) Lab File ID: QV6251900.D Analyzed: 09/26/23 19:07									
ISTD: Fluorobenzene	148755	5.697	148883	5.697	100	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	600431	8.735	581182	8.735	103	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	200547	11.715	189680	11.712	106	50 - 200	0.0030	+/-0.50	
Cal Standard (S3I2745-CAL6) Lab File ID: QV6251901.D Analyzed: 09/26/23 19:32									
ISTD: Fluorobenzene	154075	5.694	148883	5.697	103	50 - 200	-0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	621705	8.735	581182	8.735	107	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	206294	11.715	189680	11.712	109	50 - 200	0.0030	+/-0.50	
Cal Standard (S3I2745-CAL7) Lab File ID: QV6251902.D Analyzed: 09/26/23 19:56									
ISTD: Fluorobenzene	158914	5.697	148883	5.697	107	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	641886	8.735	581182	8.735	110	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	214711	11.715	189680	11.712	113	50 - 200	0.0030	+/-0.50	
Cal Standard (S3I2745-CAL8) Lab File ID: QV6251903.D Analyzed: 09/26/23 20:20									
ISTD: Fluorobenzene	158426	5.697	148883	5.697	106	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	633801	8.735	581182	8.735	109	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	202475	11.715	189680	11.712	107	50 - 200	0.0030	+/-0.50	
Cal Standard (S3I2745-CAL9) Lab File ID: QV6251904.D Analyzed: 09/26/23 20:45									
ISTD: Fluorobenzene	160366	5.697	148883	5.697	108	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	629758	8.735	581182	8.735	108	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	194290	11.718	189680	11.712	102	50 - 200	0.0060	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory:York Analytical Laboratories, Inc. - StratfordSDG:23J1154

Client:Langan Engineering & Environmental Services (NYC)Project:170199901

Sequence:S3I2745Instrument:QVOA6

Calibration:SI30036

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (S3I2745-SCV1)			Lab File ID: QV6251907.D			Analyzed: 09/26/23 21:58			
ISTD: Fluorobenzene	154681	5.7	148883	5.697	104	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	611361	8.735	581182	8.735	105	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	195126	11.715	189680	11.712	103	50 - 200	0.0030	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Sequence: S3J2001 Instrument: QVOA6
 Calibration: SI30036

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3J2001-CCV1)			Lab File ID: QV6252576.D			Analyzed: 10/19/23 10:00			
ISTD: Fluorobenzene	185237	5.697				50 - 200		+/-0.50	
ISTD: Chlorobenzene-d5	699711	8.732				50 - 200		+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	219846	11.715				50 - 200		+/-0.50	
LCS (BJ31344-BS1)			Lab File ID: QV6252577.D			Analyzed: 10/19/23 10:41			
ISTD: Fluorobenzene	189730	5.697	185237	5.697	102	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	706144	8.735	699711	8.732	101	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	213565	11.715	219846	11.715	97	50 - 200	0.0000	+/-0.50	
LCS Dup (BJ31344-BS1)			Lab File ID: QV6252578.D			Analyzed: 10/19/23 11:06			
ISTD: Fluorobenzene	187304	5.697	185237	5.697	101	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	709654	8.732	699711	8.732	101	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	227621	11.715	219846	11.715	104	50 - 200	0.0000	+/-0.50	
Blank (BJ31344-BLK1)			Lab File ID: QV6252581.D			Analyzed: 10/19/23 12:19			
ISTD: Fluorobenzene	177817	5.7	185237	5.697	96	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	640728	8.738	699711	8.732	92	50 - 200	0.0060	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	159568	11.715	219846	11.715	73	50 - 200	0.0000	+/-0.50	
TB01_101723 (23J1154-07)			Lab File ID: QV6252583.D			Analyzed: 10/19/23 13:19			
ISTD: Fluorobenzene	178874	5.7	185237	5.697	97	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	666157	8.735	699711	8.732	95	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	202556	11.718	219846	11.715	92	50 - 200	0.0030	+/-0.50	
FB01_101723 (23J1154-06)			Lab File ID: QV6252585.D			Analyzed: 10/19/23 14:09			
ISTD: Fluorobenzene	168689	5.7	185237	5.697	91	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	635822	8.735	699711	8.732	91	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	198993	11.715	219846	11.715	91	50 - 200	0.0000	+/-0.50	
PMW01_S_101723 (23J1154-01)			Lab File ID: QV6252586.D			Analyzed: 10/19/23 14:33			
ISTD: Fluorobenzene	178108	5.7	185237	5.697	96	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	671425	8.738	699711	8.732	96	50 - 200	0.0060	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	216086	11.718	219846	11.715	98	50 - 200	0.0030	+/-0.50	
PMW02_S_101723 (23J1154-02)			Lab File ID: QV6252588.D			Analyzed: 10/19/23 15:22			
ISTD: Fluorobenzene	177224	5.7	185237	5.697	96	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	656494	8.735	699711	8.732	94	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	211367	11.715	219846	11.715	96	50 - 200	0.0000	+/-0.50	
PMW01_D_101723 (23J1154-03)			Lab File ID: QV6252590.D			Analyzed: 10/19/23 16:12			
ISTD: Fluorobenzene	178710	5.697	185237	5.697	96	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	656855	8.735	699711	8.732	94	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	213408	11.712	219846	11.715	97	50 - 200	-0.0030	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Sequence: S3J2001 Instrument: QVOA6
 Calibration: SI30036

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PMW02_D_101723 (23J1154-04)			Lab File ID: QV6252592.D			Analyzed: 10/19/23 17:01			
ISTD: Fluorobenzene	172402	5.7	185237	5.697	93	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	646697	8.735	699711	8.732	92	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	207700	11.718	219846	11.715	94	50 - 200	0.0030	+/-0.50	
GWDUP01_101723 (23J1154-05)			Lab File ID: QV6252594.D			Analyzed: 10/19/23 17:51			
ISTD: Fluorobenzene	176427	5.7	185237	5.697	95	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	654468	8.735	699711	8.732	94	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	208461	11.715	219846	11.715	95	50 - 200	0.0000	+/-0.50	
Matrix Spike (BJ31344-MS1)			Lab File ID: QV6252596.D			Analyzed: 10/19/23 18:40			
ISTD: Fluorobenzene	173848	5.7	185237	5.697	94	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	659944	8.735	699711	8.732	94	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	218263	11.715	219846	11.715	99	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (BJ31344-MSD1)			Lab File ID: QV6252598.D			Analyzed: 10/19/23 19:29			
ISTD: Fluorobenzene	174164	5.7	185237	5.697	94	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	656100	8.735	699711	8.732	94	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	222261	11.715	219846	11.715	101	50 - 200	0.0000	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Sequence: S3J2002 Instrument: QVOA6
 Calibration: SI30036

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3J2002-CCV1)			Lab File ID: QV6252603.D			Analyzed: 10/19/23 21:32			
ISTD: Fluorobenzene	178352	5.7				50 - 200		+/-0.50	
ISTD: Chlorobenzene-d5	674501	8.735				50 - 200		+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	220537	11.715				50 - 200		+/-0.50	
LCS (BJ31371-BS1)			Lab File ID: QV6252604.D			Analyzed: 10/19/23 21:57			
ISTD: Fluorobenzene	179486	5.7	178352	5.7	101	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	673341	8.735	674501	8.735	100	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	217452	11.715	220537	11.715	99	50 - 200	0.0000	+/-0.50	
LCS Dup (BJ31371-BS1)			Lab File ID: QV6252605.D			Analyzed: 10/19/23 22:22			
ISTD: Fluorobenzene	178693	5.703	178352	5.7	100	50 - 200	0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	678831	8.738	674501	8.735	101	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	220714	11.715	220537	11.715	100	50 - 200	0.0000	+/-0.50	
Blank (BJ31371-BLK1)			Lab File ID: QV6252607.D			Analyzed: 10/19/23 23:11			
ISTD: Fluorobenzene	174355	5.7	178352	5.7	98	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	648500	8.735	674501	8.735	96	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	194957	11.715	220537	11.715	88	50 - 200	0.0000	+/-0.50	
PMW01_S_101723 (23J1154-01RE1)			Lab File ID: QV6252613.D			Analyzed: 10/20/23 01:38			
ISTD: Fluorobenzene	173010	5.697	178352	5.7	97	50 - 200	-0.0030	+/-0.50	
ISTD: Chlorobenzene-d5	632572	8.735	674501	8.735	94	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	191490	11.715	220537	11.715	87	50 - 200	0.0000	+/-0.50	
PMW02_S_101723 (23J1154-02RE1)			Lab File ID: QV6252619.D			Analyzed: 10/20/23 04:06			
ISTD: Fluorobenzene	167544	5.7	178352	5.7	94	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	602536	8.735	674501	8.735	89	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	180719	11.718	220537	11.715	82	50 - 200	0.0030	+/-0.50	
PMW01_D_101723 (23J1154-03RE1)			Lab File ID: QV6252620.D			Analyzed: 10/20/23 04:30			
ISTD: Fluorobenzene	162403	5.7	178352	5.7	91	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	593175	8.738	674501	8.735	88	50 - 200	0.0030	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	177217	11.715	220537	11.715	80	50 - 200	0.0000	+/-0.50	
GWDUP01_101723 (23J1154-05RE1)			Lab File ID: QV6252622.D			Analyzed: 10/20/23 05:19			
ISTD: Fluorobenzene	163647	5.7	178352	5.7	92	50 - 200	0.0000	+/-0.50	
ISTD: Chlorobenzene-d5	588907	8.735	674501	8.735	87	50 - 200	0.0000	+/-0.50	
ISTD: 1,2-Dichlorobenzene-d4	176358	11.715	220537	11.715	80	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PMW01_S_101723	10/17/23 15:35	10/18/23 19:00	10/19/23 06:15	1.61	14.00	10/19/23 14:33	1.96	14.00	
PMW01_S_101723	10/17/23 15:35	10/18/23 19:00	10/19/23 06:17	1.61	14.00	10/20/23 01:38	2.42	14.00	
PMW02_S_101723	10/17/23 12:30	10/18/23 19:00	10/19/23 06:15	1.74	14.00	10/19/23 15:22	2.12	14.00	
PMW02_S_101723	10/17/23 12:30	10/18/23 19:00	10/19/23 06:17	1.74	14.00	10/20/23 04:06	2.65	14.00	
PMW01_D_101723	10/17/23 14:20	10/18/23 19:00	10/19/23 06:15	1.66	14.00	10/19/23 16:12	2.08	14.00	
PMW01_D_101723	10/17/23 14:20	10/18/23 19:00	10/19/23 06:17	1.66	14.00	10/20/23 04:30	2.59	14.00	
PMW02_D_101723	10/17/23 11:20	10/18/23 19:00	10/19/23 06:15	1.79	14.00	10/19/23 17:01	2.24	14.00	
GWDUP01_101723	10/17/23 15:00	10/18/23 19:00	10/19/23 06:15	1.64	14.00	10/19/23 17:51	2.12	14.00	
GWDUP01_101723	10/17/23 15:00	10/18/23 19:00	10/19/23 06:17	1.64	14.00	10/20/23 05:19	2.60	14.00	
FB01_101723	10/17/23 15:45	10/18/23 19:00	10/19/23 06:15	1.60	14.00	10/19/23 14:09	1.93	14.00	
TB01_101723	10/17/23 15:50	10/18/23 19:00	10/19/23 06:15	1.60	14.00	10/19/23 13:19	1.90	14.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Matrix: Water

Instrument: QVOA6

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	0.216	0.500	ug/L
1,1,1-Trichloroethane	0.266	0.500	ug/L
1,1,2,2-Tetrachloroethane	0.256	0.500	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.286	0.500	ug/L
1,1,2-Trichloroethane	0.249	0.500	ug/L
1,1-Dichloroethane	0.272	0.500	ug/L
1,1-Dichloroethylene	0.327	0.500	ug/L
1,2,3-Trichlorobenzene	0.222	0.500	ug/L
1,2,3-Trichloropropane	0.273	0.500	ug/L
1,2,4-Trichlorobenzene	0.138	0.500	ug/L
1,2,4-Trimethylbenzene	0.310	0.500	ug/L
1,2-Dibromo-3-chloropropane	0.432	0.500	ug/L
1,2-Dibromoethane	0.215	0.500	ug/L
1,2-Dichlorobenzene	0.270	0.500	ug/L
1,2-Dichloroethane	0.377	0.500	ug/L
1,2-Dichloropropane	0.327	0.500	ug/L
1,3,5-Trimethylbenzene	0.347	0.500	ug/L
1,3-Dichlorobenzene	0.283	0.500	ug/L
1,4-Dichlorobenzene	0.311	0.500	ug/L
1,4-Dioxane	35.3	80.0	ug/L
2-Butanone	0.421	0.500	ug/L
2-Hexanone	0.320	0.500	ug/L
4-Methyl-2-pentanone	0.365	0.500	ug/L
Acetone	1.34	2.00	ug/L
Acrolein	0.447	0.500	ug/L
Acrylonitrile	0.422	0.500	ug/L
Benzene	0.279	0.500	ug/L
Bromochloromethane	0.354	0.500	ug/L
Bromodichloromethane	0.245	0.500	ug/L
Bromoform	0.163	0.500	ug/L
Bromomethane	0.119	0.500	ug/L
Carbon disulfide	0.362	0.500	ug/L
Carbon tetrachloride	0.204	0.500	ug/L
Chlorobenzene	0.284	0.500	ug/L
Chloroethane	0.448	0.500	ug/L
Chloroform	0.243	0.500	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Matrix: Water

Instrument: QVOA6

Analyte	LOD	LOQ	Units
Chloromethane	0.372	0.500	ug/L
cis-1,2-Dichloroethylene	0.294	0.500	ug/L
cis-1,3-Dichloropropylene	0.262	0.500	ug/L
Cyclohexane	0.491	0.500	ug/L
Dibromochloromethane	0.146	0.500	ug/L
Dibromomethane	0.203	0.500	ug/L
Dichlorodifluoromethane	0.451	0.500	ug/L
Ethyl Benzene	0.290	0.500	ug/L
Hexachlorobutadiene	0.241	0.500	ug/L
Isopropylbenzene	0.405	0.500	ug/L
Methyl acetate	0.442	0.500	ug/L
Methyl tert-butyl ether (MTBE)	0.244	0.500	ug/L
Methylcyclohexane	0.477	0.500	ug/L
Methylene chloride	0.397	2.00	ug/L
n-Butylbenzene	0.399	0.500	ug/L
n-Propylbenzene	0.384	0.500	ug/L
o-Xylene	0.261	0.500	ug/L
p- & m- Xylenes	0.578	1.00	ug/L
p-Isopropyltoluene	0.377	0.500	ug/L
sec-Butylbenzene	0.444	0.500	ug/L
Styrene	0.255	0.500	ug/L
tert-Butyl alcohol (TBA)	0.608	1.00	ug/L
tert-Butylbenzene	0.367	0.500	ug/L
Tetrachloroethylene	0.239	0.500	ug/L
Toluene	0.346	0.500	ug/L
trans-1,2-Dichloroethylene	0.279	0.500	ug/L
trans-1,3-Dichloropropylene	0.229	0.500	ug/L
Trichloroethylene	0.249	0.500	ug/L
Trichlorofluoromethane	0.337	0.500	ug/L
Vinyl Chloride	0.469	0.500	ug/L
Xylenes, Total	0.836	1.50	ug/L

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW01_S_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-01 File ID: QV6252586.D
 Sampled: 10/17/23 15:35 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 14:33
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	5.05	
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	1.36	J
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.580	
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW01_S_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-01 File ID: QV6252586.D
 Sampled: 10/17/23 15:35 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 14:33
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	1.63	
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	36.4	
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	8.23	
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	110	
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.62	96.2	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	178108	5.7	185237	5.697	
ISTD: Chlorobenzene-d5	671425	8.738	699711	8.732	
ISTD: 1,2-Dichlorobenzene-d4	216086	11.718	219846	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252586.D
 Acq On : 19 Oct 2023 2:33 pm
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-01
 Misc : QBQV6101923A 8260 B AF
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 19 15:10:30 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

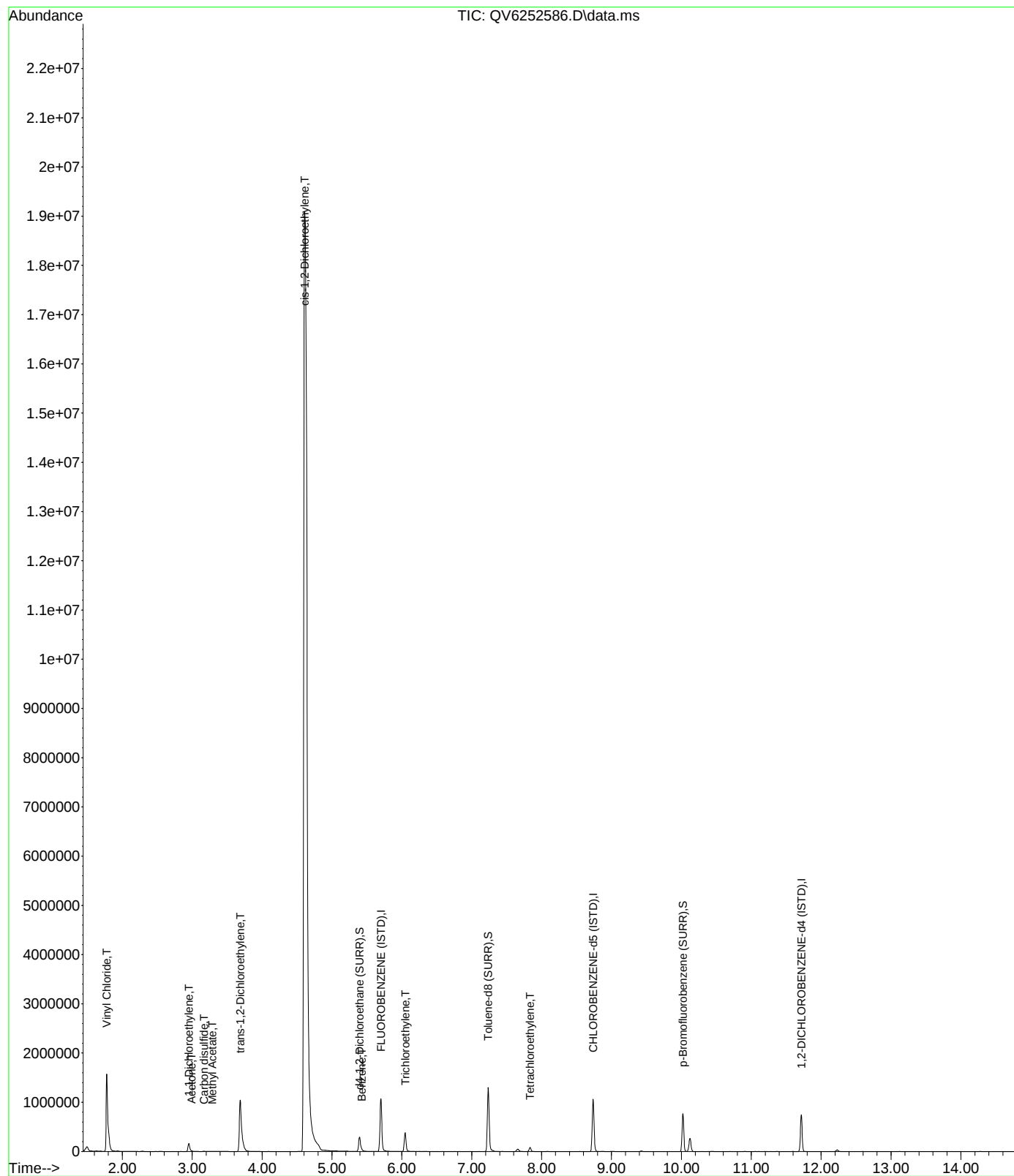
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

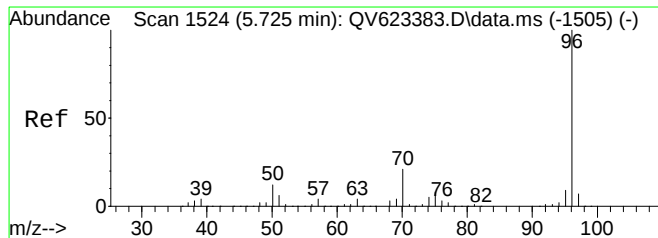
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	178108	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.738	117	671425	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.718	152	216086	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	189831	10.93	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	109.30%	
56) Toluene-d8 (SURR)	7.236	98	954853	10.22	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.20%	
79) p-Bromofluorobenzene (...)	10.023	95	296945	9.62	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	96.20%	
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.777	62	1588922m	110.06	ppb	
12) 1,1-Dichloroethylene	2.951	61	104958	5.05	ppb	# 62
14) Acetone	2.990	43	1742	1.36	ppb	100
17) Methyl Acetate	3.285	43	772m	0.26	ppb	
18) Carbon disulfide	3.168	76	8918m	0.23	ppb	
22) trans-1,2-Dichloroethy...	3.686	61	749122	36.35	ppb	95
29) cis-1,2-Dichloroethylene	4.609	61	17009516	770.48	ppb	# 64
42) Benzene	5.424	78	32569	0.58	ppb	# 1
45) Trichloroethylene	6.048	95	126744	8.23	ppb	92
63) Tetrachloroethylene	7.834	166	25949	1.63	ppb	# 77

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252586.D
Acq On : 19 Oct 2023 2:33 pm
InstName : QVOA6
Operator : JTG
Sample : 23J1154-01
Misc : QBQV6101923A 8260 B AF
ALS Vial : 13 Sample Multiplier: 1

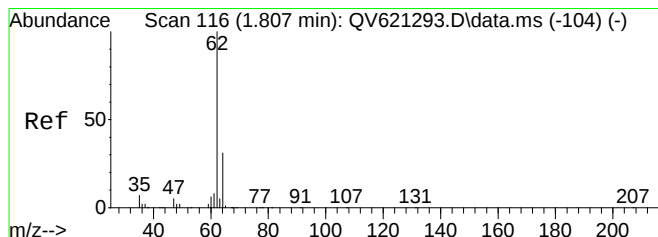
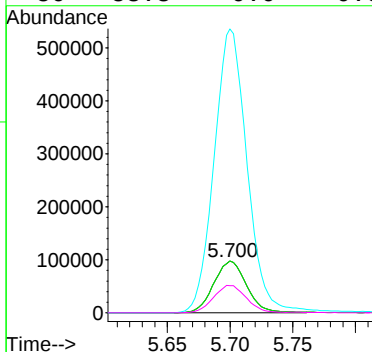
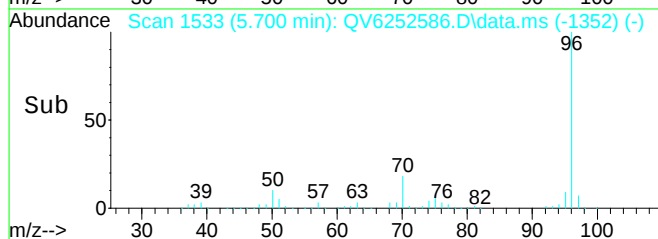
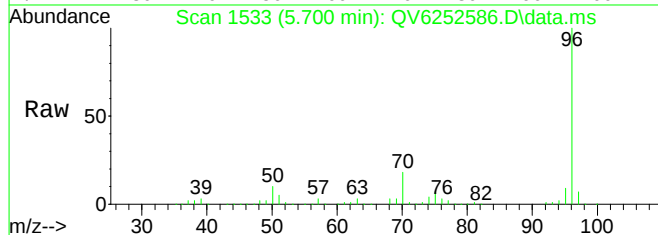
Quant Time: Oct 19 15:10:30 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





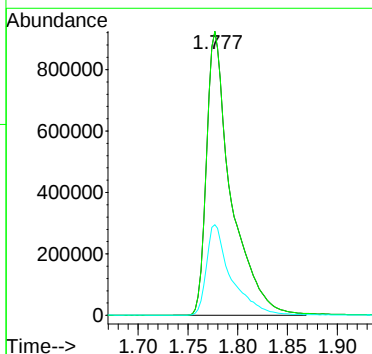
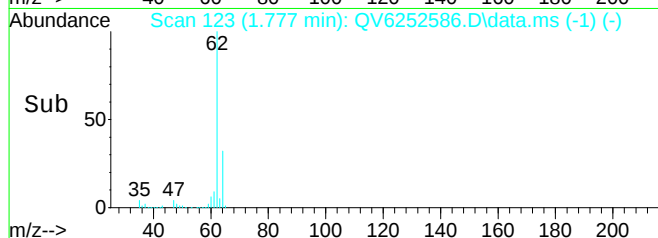
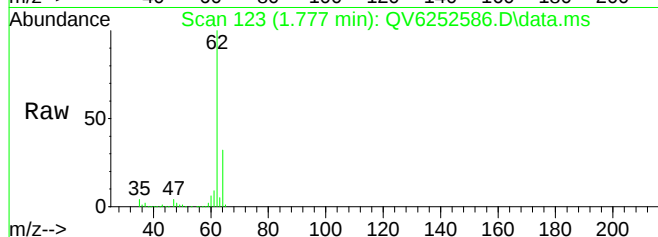
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252586.D
 Acq: 19 Oct 2023 2:33 pm

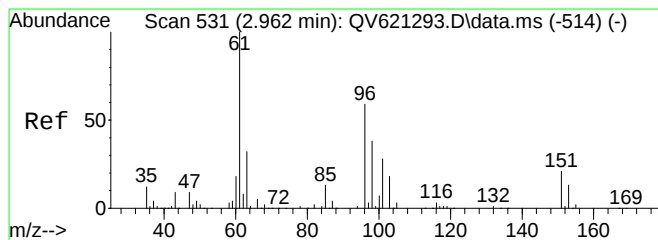
Tgt Ion: 70 Resp: 178108
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 0.0 341.1 708.3#
 50 53.3 0.0 0.0#



#5
 Vinyl Chloride
 Concen: 110.06 ppb m
 RT: 1.777 min Scan# 123
 Delta R.T. 0.003 min
 Lab File: QV6252586.D
 Acq: 19 Oct 2023 2:33 pm

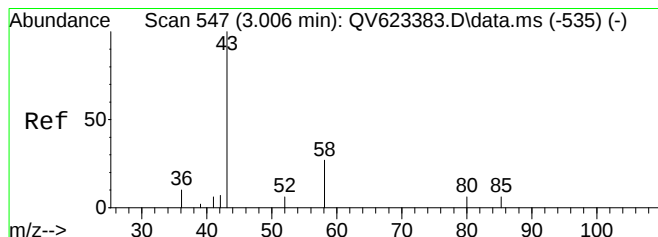
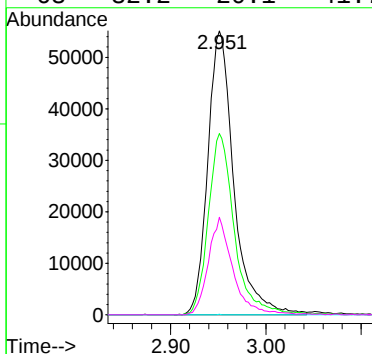
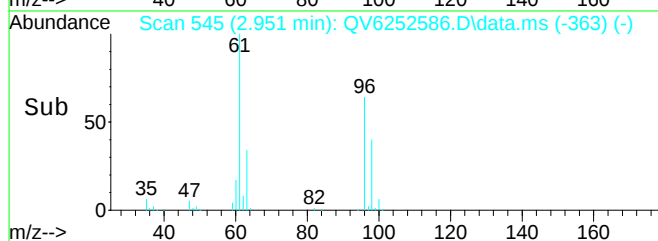
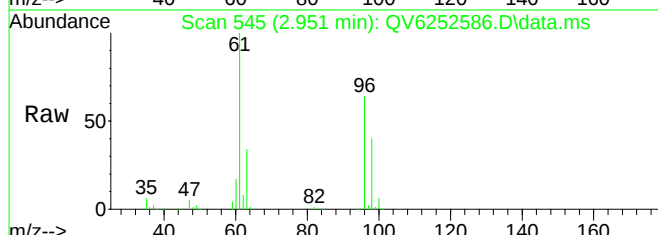
Tgt Ion: 62 Resp: 1588922
 Ion Ratio Lower Upper
 62 100
 62 100.8 36.0 74.8#
 64 32.0 12.5 25.9#





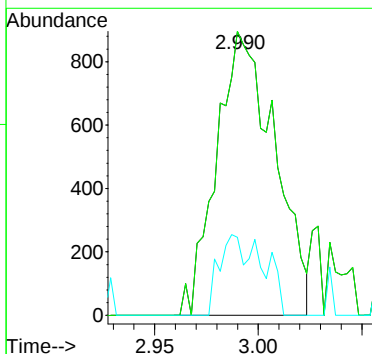
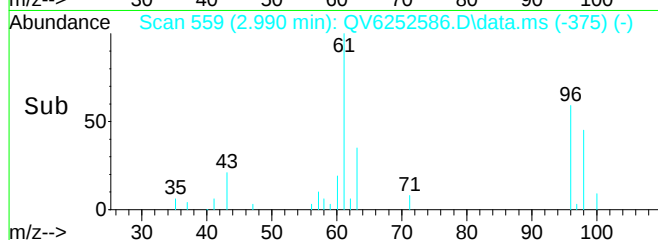
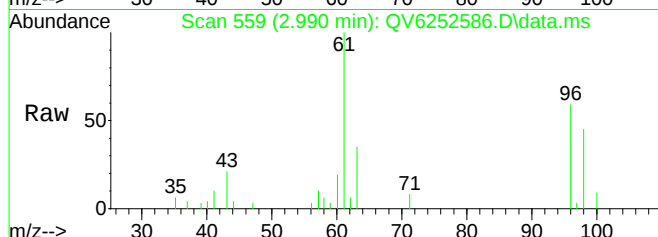
#12
1,1-Dichloroethylene
Concen: 5.05 ppb
RT: 2.951 min Scan# 545
Delta R.T. 0.006 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

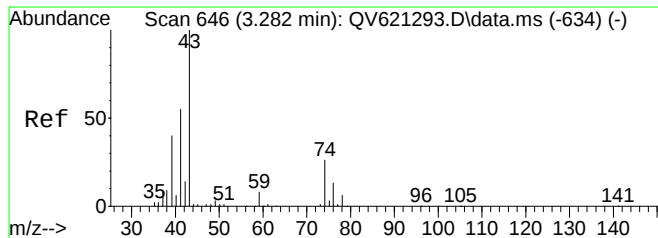
Tgt Ion:	61	Resp:	104958
Ion Ratio	Lower	Upper	
61	100		
96	63.3	33.6	69.8
101	0.0	37.0	77.0#
63	32.2	20.1	41.7



#14
Acetone
Concen: 1.36 ppb
RT: 2.990 min Scan# 559
Delta R.T. 0.011 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

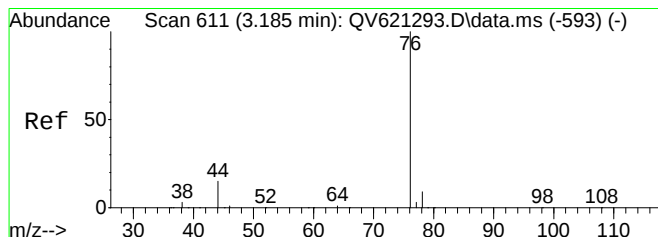
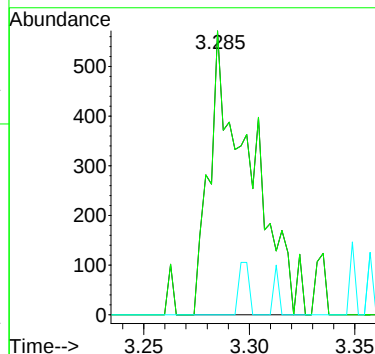
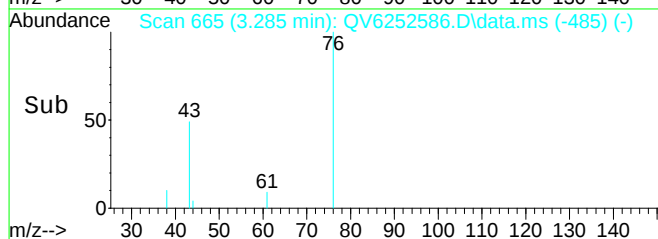
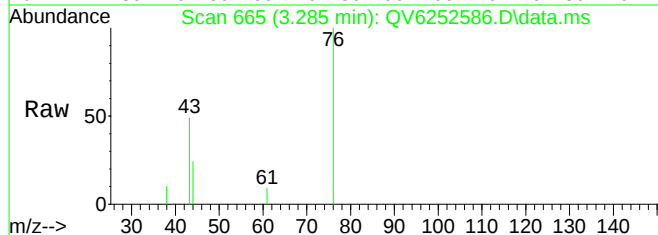
Tgt Ion:	43	Resp:	1742
Ion Ratio	Lower	Upper	
43	100		
43	100.0	80.0	120.0
58	13.2	6.0	18.1





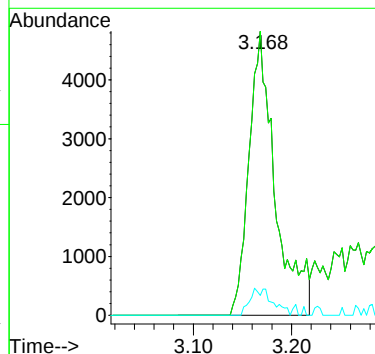
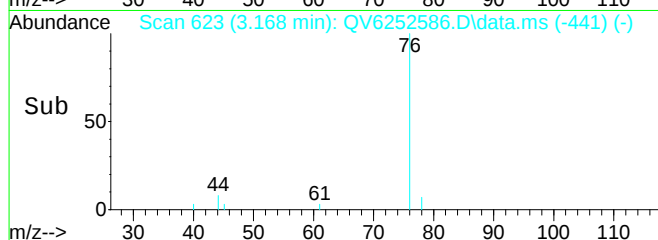
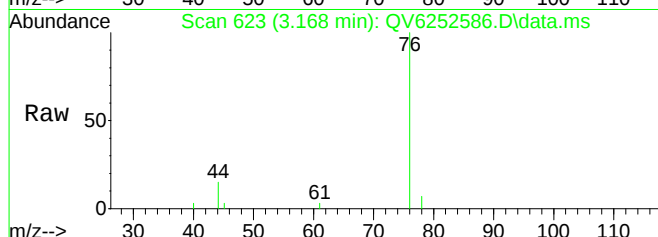
#17
Methyl Acetate
Concen: 0.26 ppb m
RT: 3.285 min Scan# 665
Delta R.T. -0.000 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

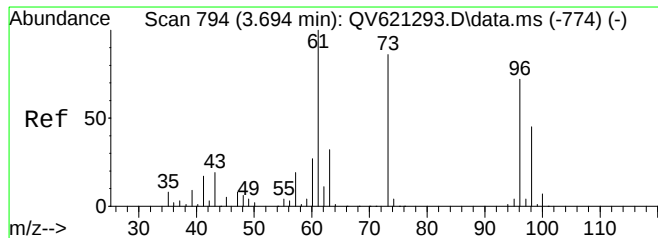
Tgt Ion: 43 Resp: 772
Ion Ratio Lower Upper
43 100
43 24.5 80.0 120.0#
74 2.7 7.3 22.0#



#18
Carbon disulfide
Concen: 0.23 ppb m
RT: 3.168 min Scan# 623
Delta R.T. 0.006 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

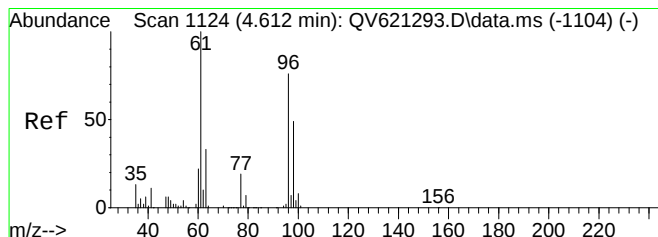
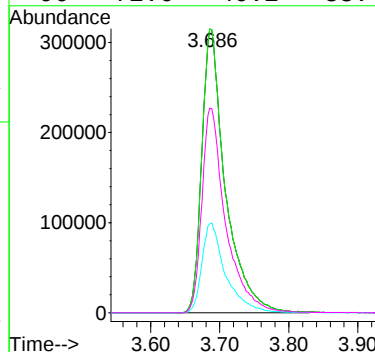
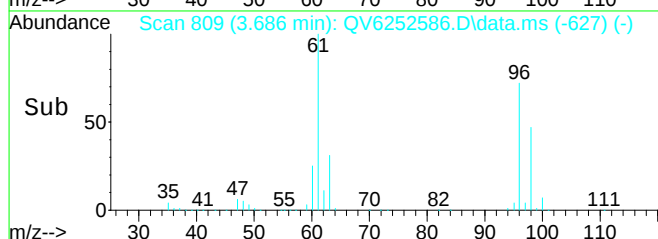
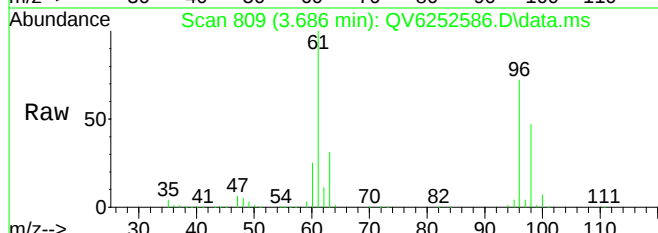
Tgt Ion: 76 Resp: 8918
Ion Ratio Lower Upper
76 100
76 4.0 65.0 135.0#
78 0.2 4.5 13.4#





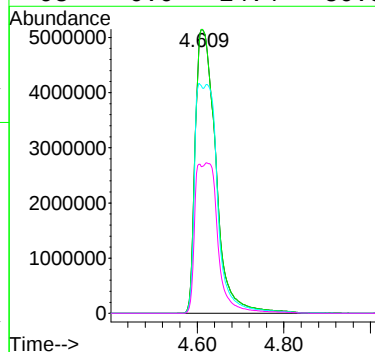
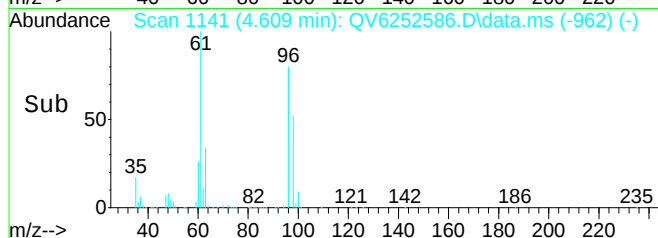
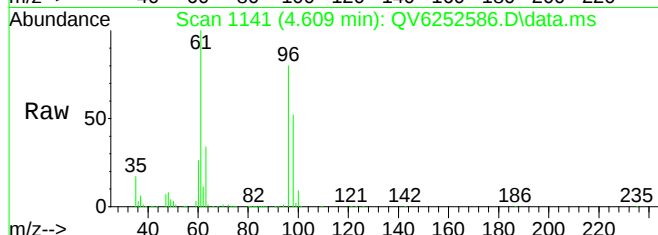
#22
trans-1,2-Dichloroethylene
Concen: 36.35 ppb
RT: 3.686 min Scan# 809
Delta R.T. 0.006 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

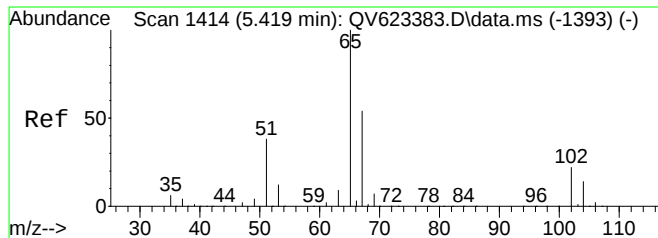
Tgt Ion: 61 Resp: 749122
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 31.8 20.9 43.3
96 72.6 40.2 83.4



#29
cis-1,2-Dichloroethylene
Concen: 770.48 ppb
RT: 4.609 min Scan# 1141
Delta R.T. -0.003 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

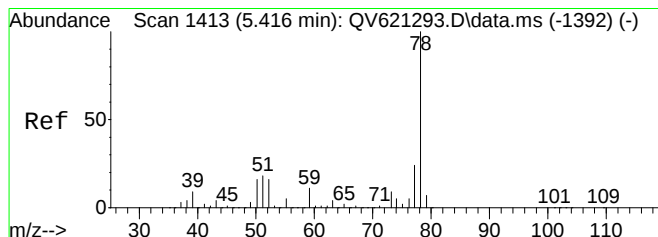
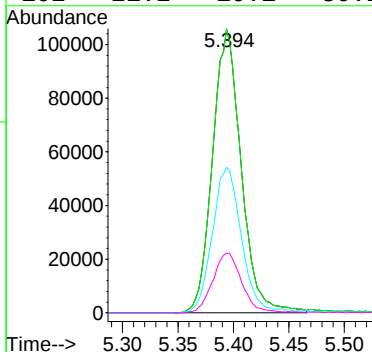
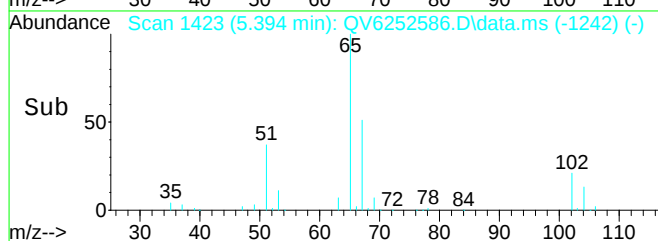
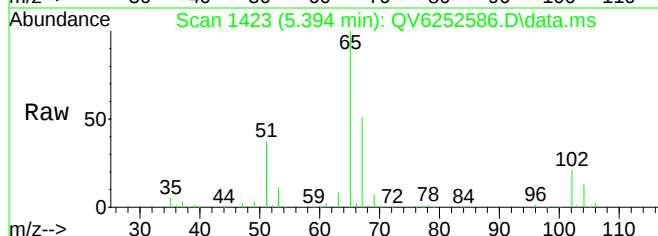
Tgt Ion: 61 Resp: 17009516
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 0.0 39.2 81.4#
98 0.0 24.4 50.8#





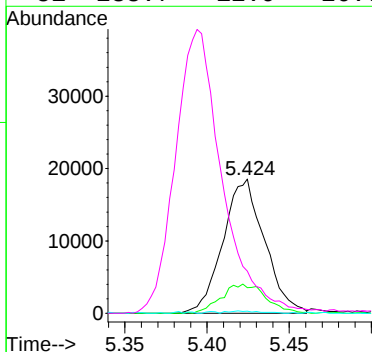
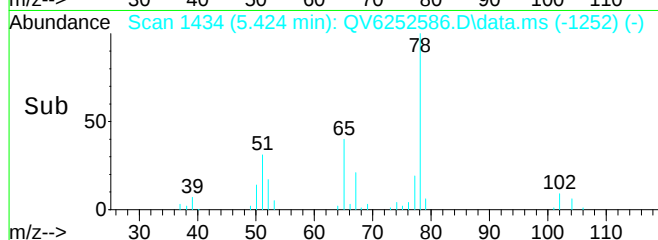
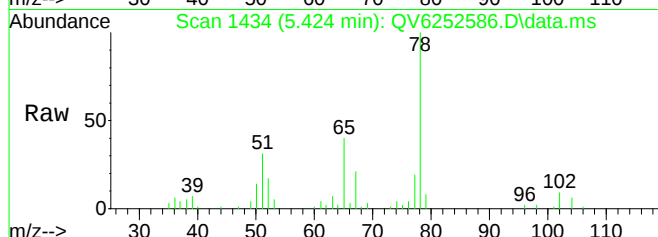
#38
d4-1,2-Dichloroethane (SURR)
Concen: 10.93 ppb
RT: 5.394 min Scan# 1423
Delta R.T. 0.003 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

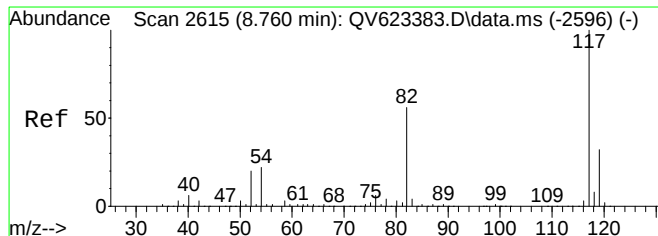
Tgt Ion: 65 Resp: 189831
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 52.5 34.0 70.6
102 21.2 10.1 30.1



#42
Benzene
Concen: 0.58 ppb
RT: 5.424 min Scan# 1434
Delta R.T. 0.005 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

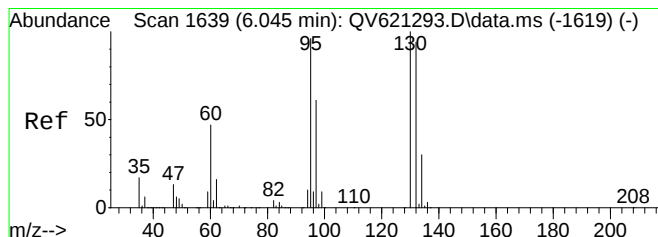
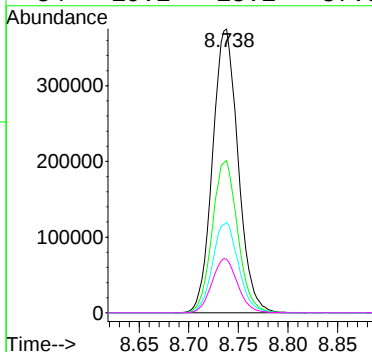
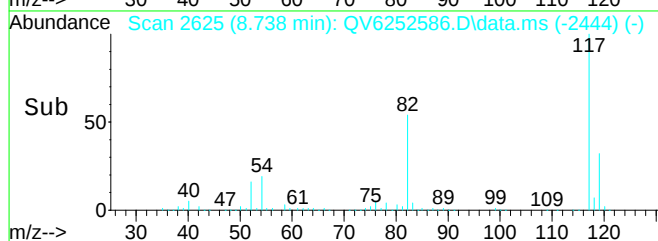
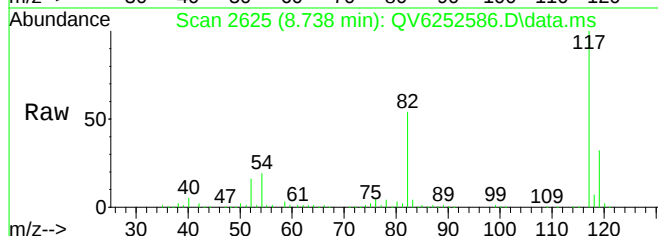
Tgt Ion: 78 Resp: 32569
Ion Ratio Lower Upper
78 100
77 23.4 15.7 32.5
62 1.4 22.9 47.5#
51 238.7 12.9 26.7#





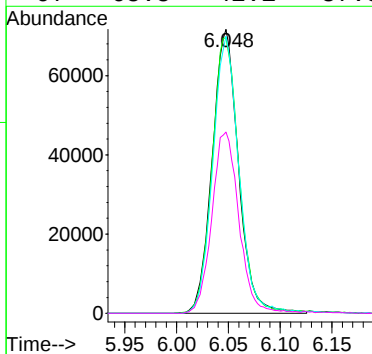
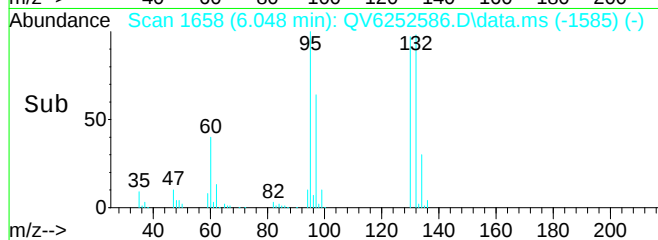
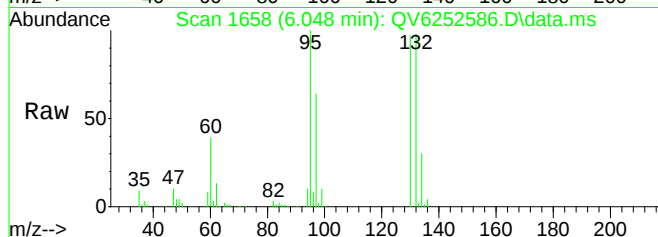
#44
 CHLOROBENZENE-d5 (ISTD)
 Concen: 10.00 ppb
 RT: 8.738 min Scan# 2625
 Delta R.T. 0.003 min
 Lab File: QV6252586.D
 Acq: 19 Oct 2023 2:33 pm

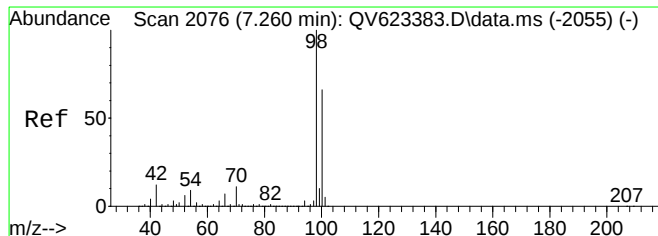
Tgt Ion:	117	Resp:	671425
Ion Ratio	Lower	Upper	
117	100		
82	53.4	34.5	71.7
119	32.2	20.9	43.3
54	19.2	18.1	37.5



#45
 Trichloroethylene
 Concen: 8.23 ppb
 RT: 6.048 min Scan# 1658
 Delta R.T. 0.003 min
 Lab File: QV6252586.D
 Acq: 19 Oct 2023 2:33 pm

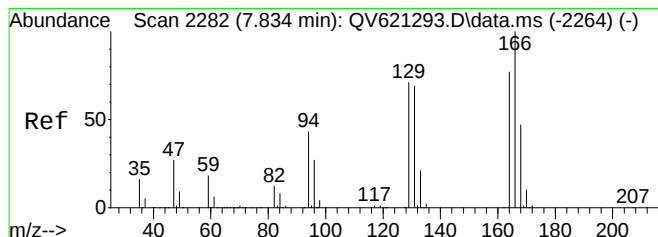
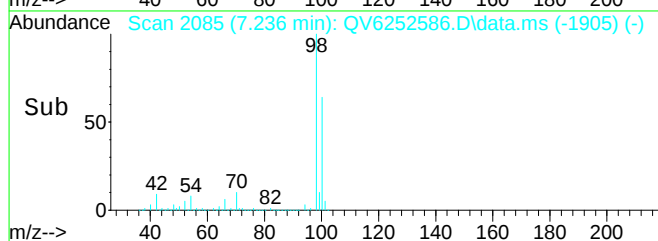
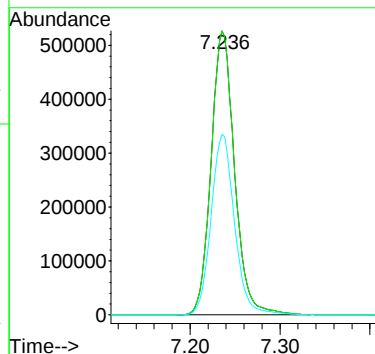
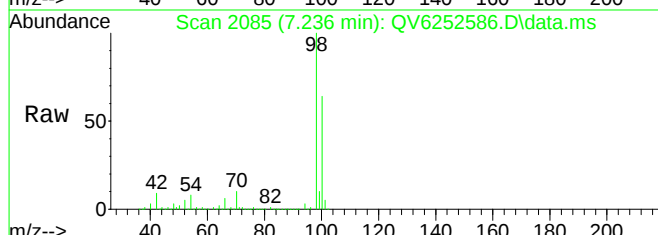
Tgt Ion:	95	Resp:	126744
Ion Ratio	Lower	Upper	
95	100		
130	98.7	70.0	145.4
132	96.3	69.6	144.6
97	65.5	42.1	87.3





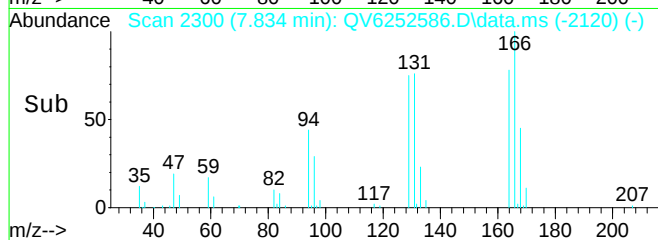
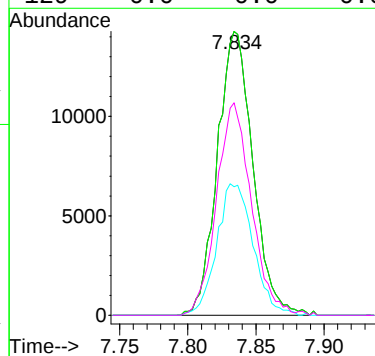
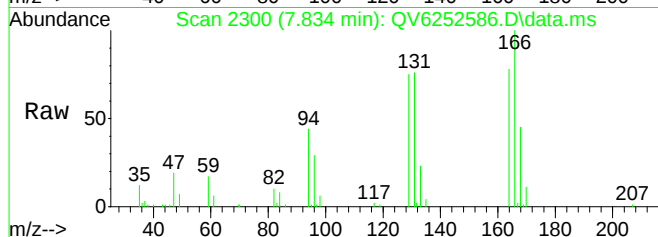
#56
Toluene-d8 (SURRE)
Concen: 10.22 ppb
RT: 7.236 min Scan# 2085
Delta R.T. -0.000 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

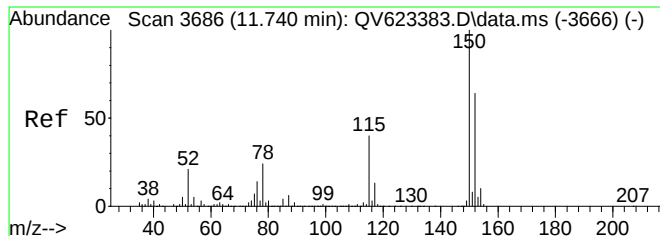
Tgt Ion: 98 Resp: 954853
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.5 44.2 91.8



#63
Tetrachloroethylene
Concen: 1.63 ppb
RT: 7.834 min Scan# 2300
Delta R.T. -0.000 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

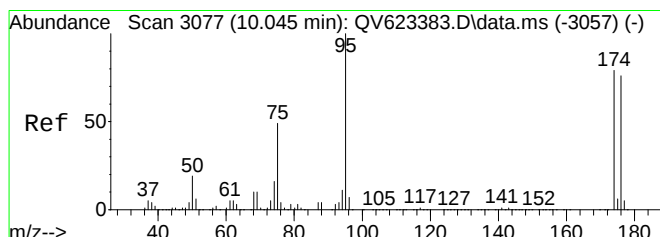
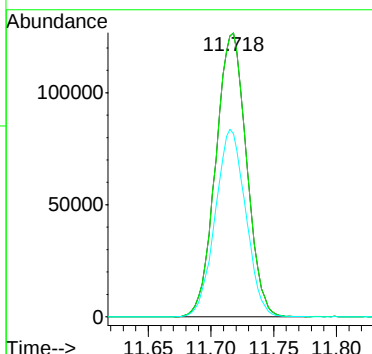
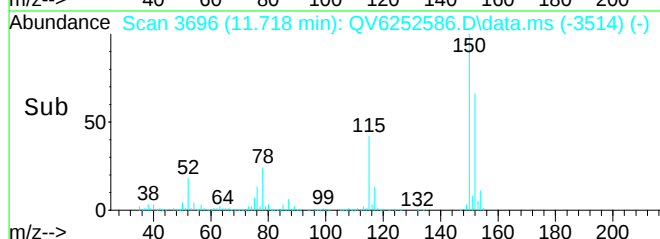
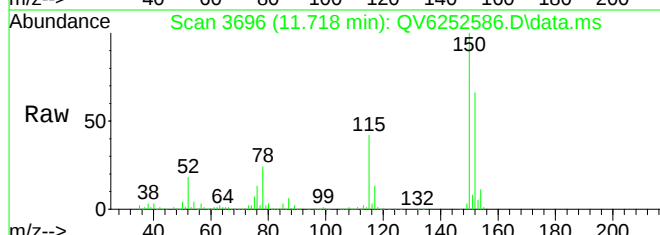
Tgt Ion: 166 Resp: 25949
Ion Ratio Lower Upper
166 100
166 100.0 65.0 135.0
168 0.0 31.7 65.7#
129 0.0 0.0 0.0





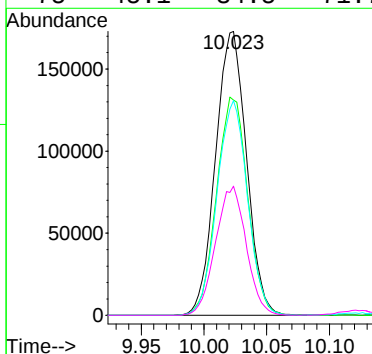
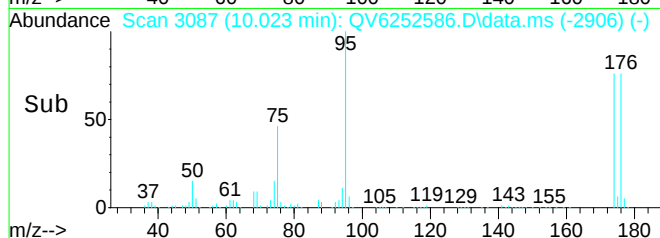
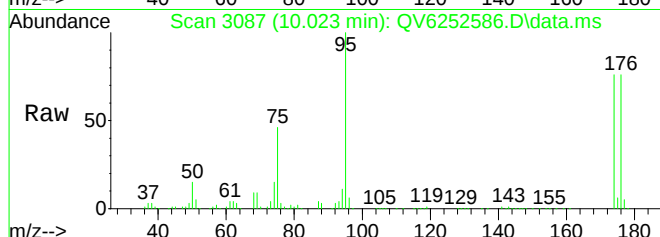
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.718 min Scan# 3696
Delta R.T. 0.006 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

Tgt Ion: 152 Resp: 216086
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 65.4 29.8 89.3



#79
p-Bromofluorobenzene (SURR)
Concen: 9.62 ppb
RT: 10.023 min Scan# 3087
Delta R.T. 0.002 min
Lab File: QV6252586.D
Acq: 19 Oct 2023 2:33 pm

Tgt Ion: 95 Resp: 296945
Ion Ratio Lower Upper
95 100
174 77.3 62.5 129.9
176 74.8 60.7 126.1
75 45.1 34.5 71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW01_S_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-01RE1 File ID: QV6252613.D
 Sampled: 10/17/23 15:35 Prepared: 10/19/23 06:17 Analyzed: 10/20/23 01:38
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31371 Sequence: S3J2002 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	20	2420	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.5	105	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	173010	5.697	178352	5.7	
ISTD: Chlorobenzene-d5	632572	8.735	674501	8.735	
ISTD: 1,2-Dichlorobenzene-d4	191490	11.715	220537	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252613.D
 Acq On : 20 Oct 2023 1:38 am
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-01RE1
 Misc : QBQV6101923B 8260 C AF 2.5mL/50mL
 ALS Vial : 40 Sample Multiplier: 20

Quant Time: Oct 20 12:04:03 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

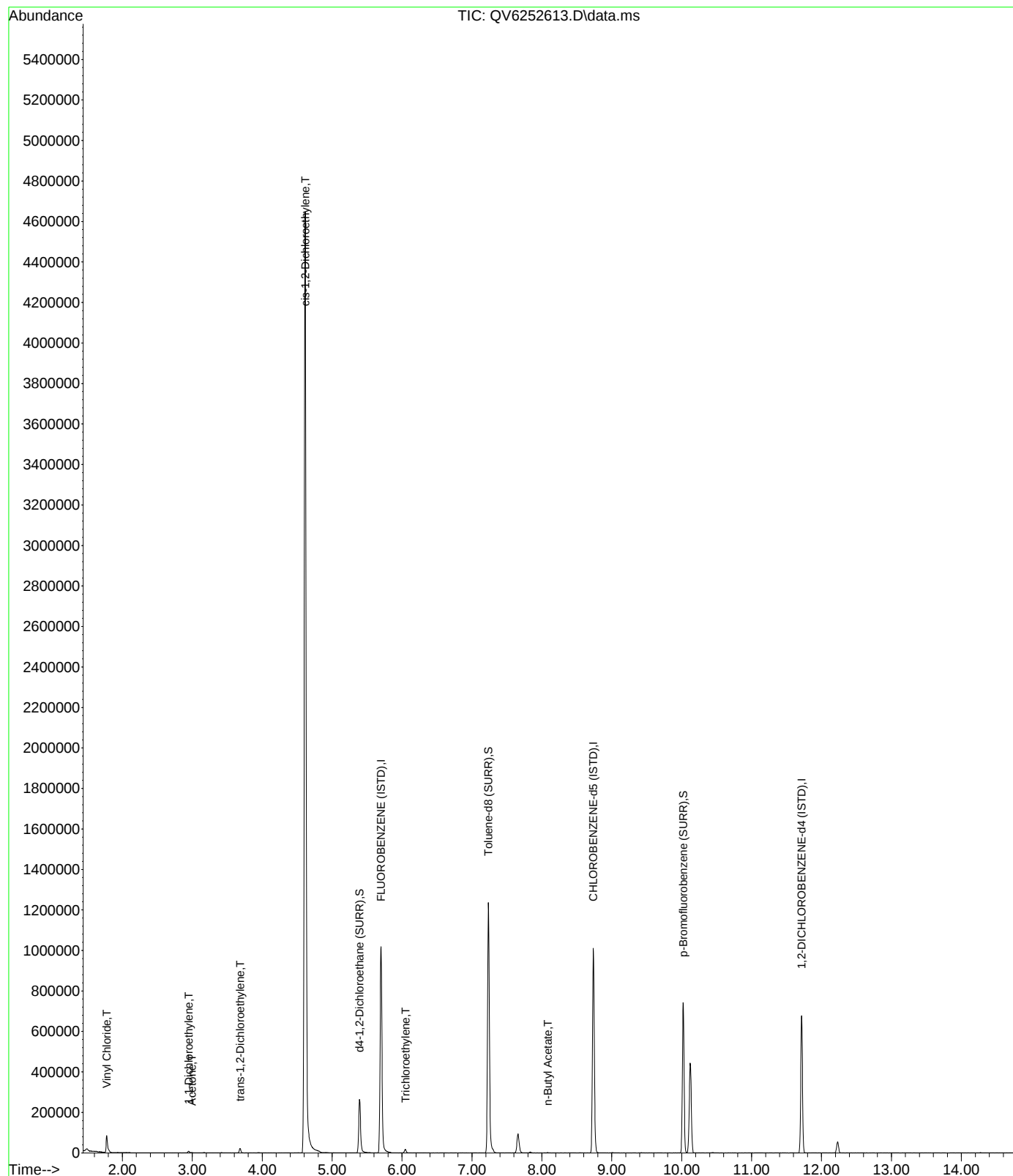
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

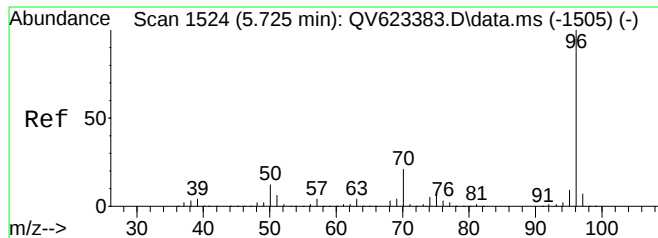
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	173010	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	632572	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.715	152	191490	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	177550	10.53	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	105.30%	
56) Toluene-d8 (SURR)	7.236	98	907467	10.31	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	103.10%	
79) p-Bromofluorobenzene (...)	10.023	95	278607	10.19	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	101.90%	
Target Compounds						
5) Vinyl Chloride	1.777	62	75795	5.40	ppb	# 48
12) 1,1-Dichloroethylene	2.948	61	4271	0.21	ppb	# 61
14) Acetone	2.993	43	2813m	2.27	ppb	
22) trans-1,2-Dichloroethy...	3.683	61	11177	0.56	ppb	# 74
29) cis-1,2-Dichloroethylene	4.615	61	2596228	121.07	ppb	# 87
45) Trichloroethylene	6.050	95	5650	0.39	ppb	89
65) n-Butyl Acetate	8.084	56	489m	0.18	ppb	

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252613.D
Acq On : 20 Oct 2023 1:38 am
InstName : QVOA6
Operator : JTG
Sample : 23J1154-01RE1
Misc : QBQV6101923B 8260 C AF 2.5mL/50mL
ALS Vial : 40 Sample Multiplier: 20

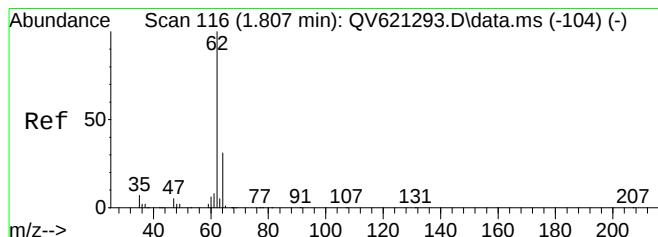
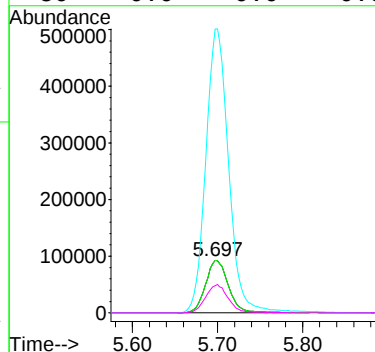
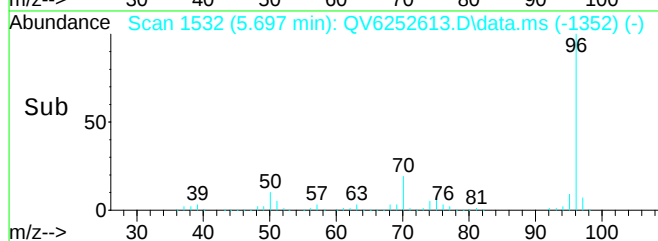
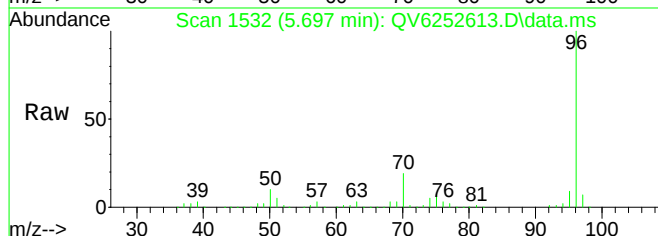
Quant Time: Oct 20 12:04:03 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





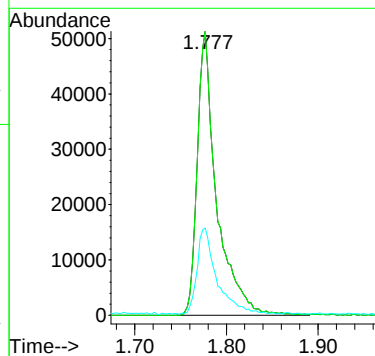
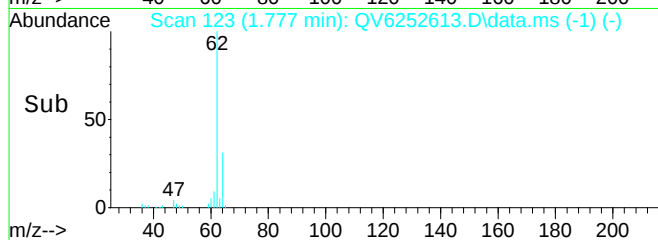
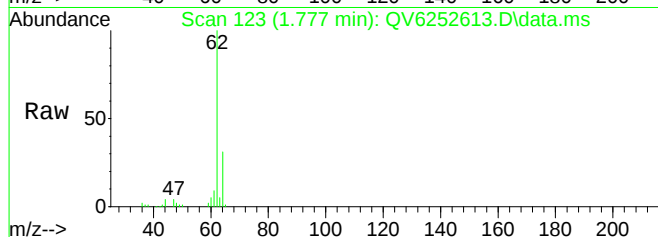
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.697 min Scan# 1532
 Delta R.T. 0.000 min
 Lab File: QV6252613.D
 Acq: 20 Oct 2023 1:38 am

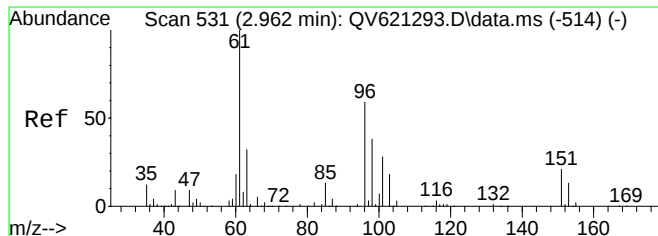
Tgt Ion: 70 Resp: 173010
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 0.0 341.1 708.3#
 50 0.0 0.0 0.0



#5
 Vinyl Chloride
 Concen: 5.40 ppb
 RT: 1.777 min Scan# 123
 Delta R.T. 0.003 min
 Lab File: QV6252613.D
 Acq: 20 Oct 2023 1:38 am

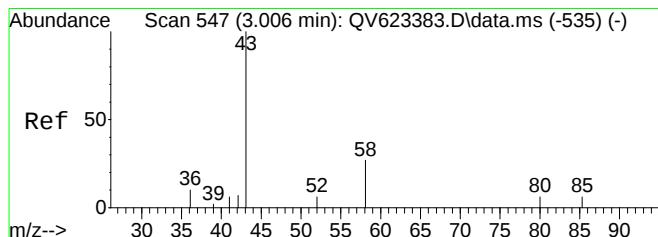
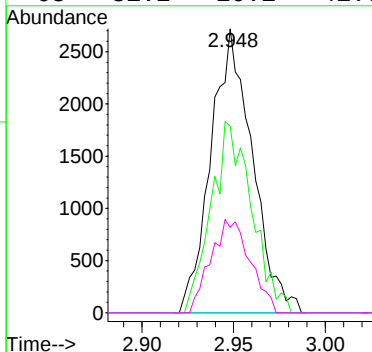
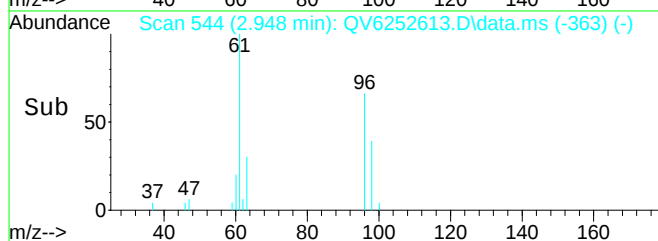
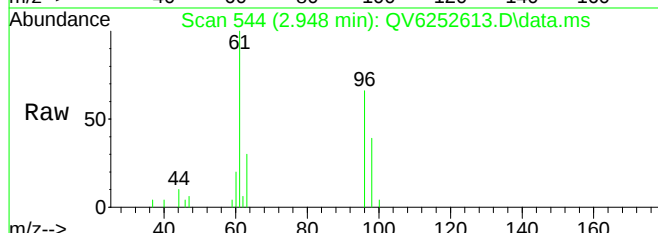
Tgt Ion: 62 Resp: 75795
 Ion Ratio Lower Upper
 62 100
 62 100.0 36.0 74.8#
 64 30.8 12.5 25.9#





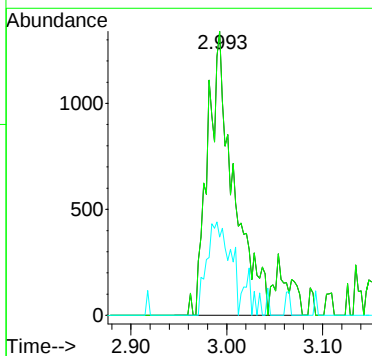
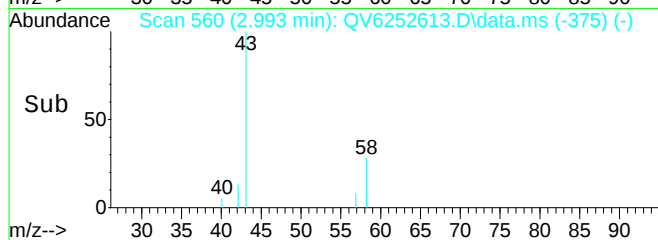
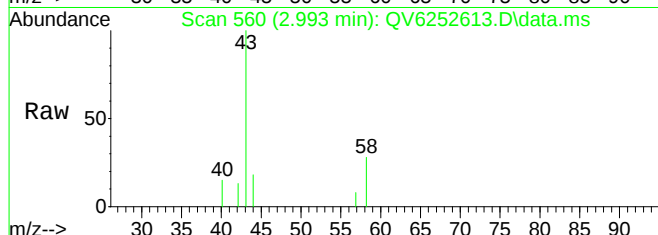
#12
1,1-Dichloroethylene
Concen: 0.21 ppb
RT: 2.948 min Scan# 544
Delta R.T. 0.003 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

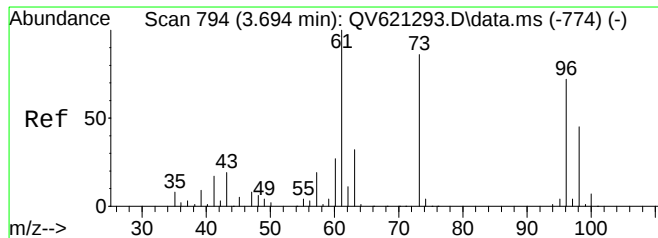
Tgt Ion: 61 Resp: 4271
Ion Ratio Lower Upper
61 100
96 65.9 33.6 69.8
101 0.0 37.0 77.0#
63 31.2 20.1 41.7



#14
Acetone
Concen: 2.27 ppb m
RT: 2.993 min Scan# 560
Delta R.T. 0.014 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

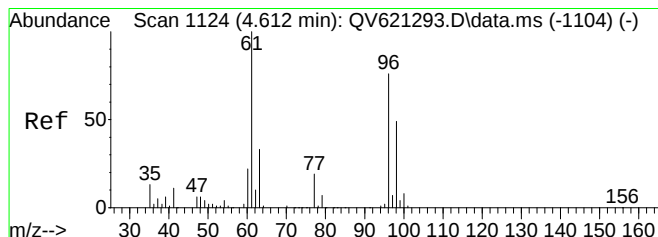
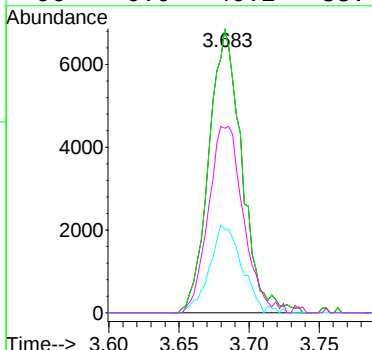
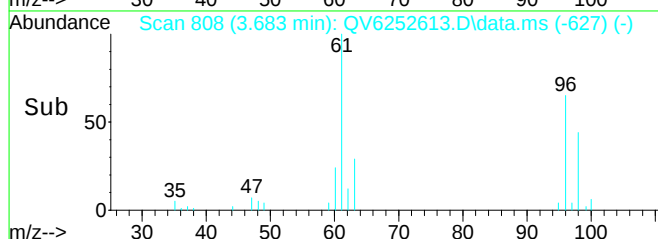
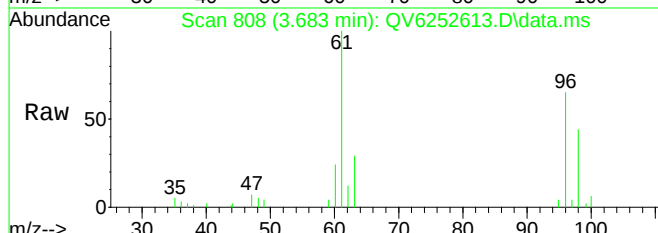
Tgt Ion: 43 Resp: 2813
Ion Ratio Lower Upper
43 100
43 7.5 80.0 120.0#
58 0.7 6.0 18.1#





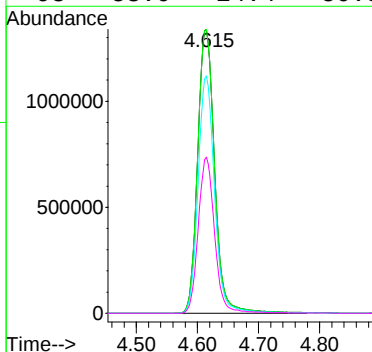
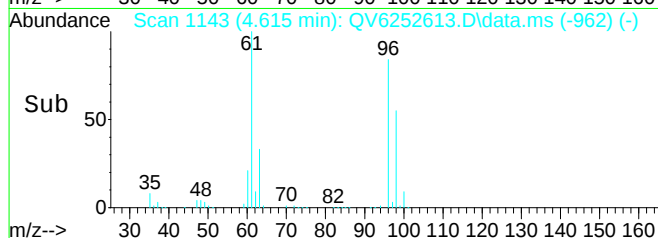
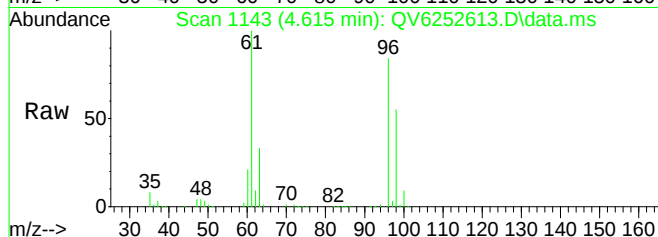
#22
trans-1,2-Dichloroethylene
Concen: 0.56 ppb
RT: 3.683 min Scan# 808
Delta R.T. 0.003 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

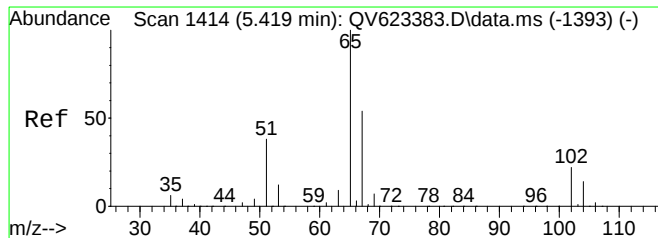
Tgt Ion: 61 Resp: 11177
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 29.9 20.9 43.3
96 0.0 40.2 83.4#



#29
cis-1,2-Dichloroethylene
Concen: 121.07 ppb
RT: 4.615 min Scan# 1143
Delta R.T. 0.003 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

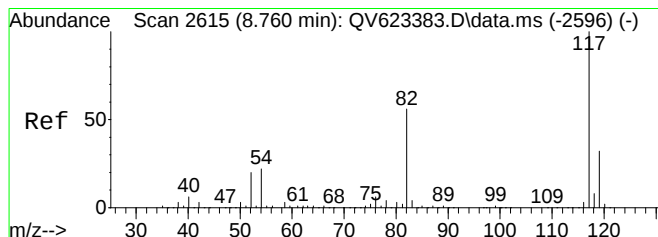
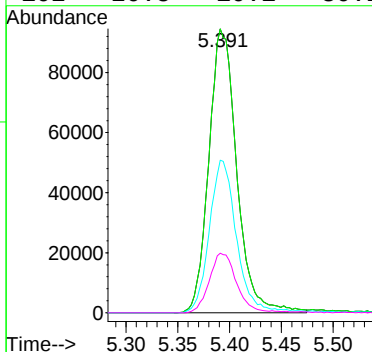
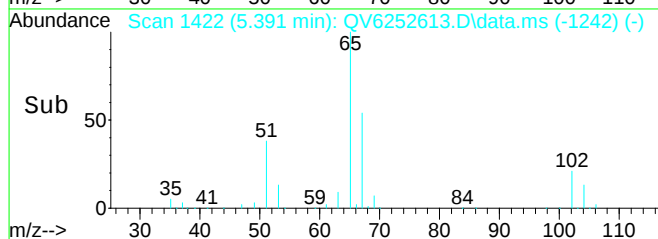
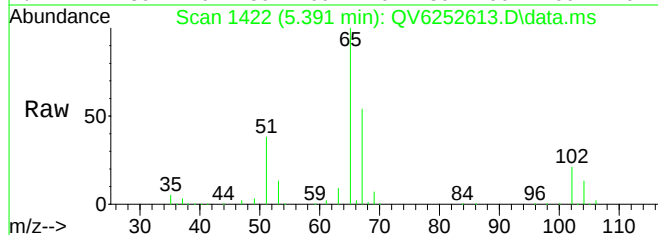
Tgt Ion: 61 Resp: 2596228
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 81.2 39.2 81.4
98 53.0 24.4 50.8#





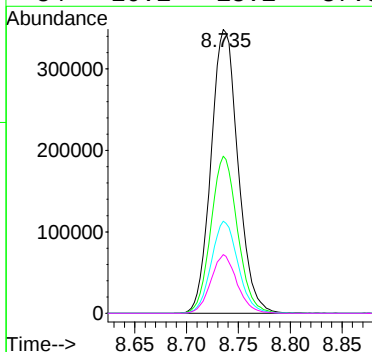
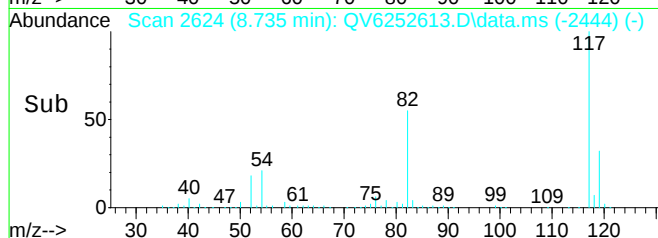
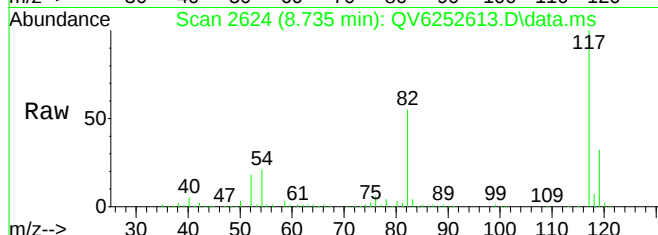
#38
d4-1,2-Dichloroethane (SURRE)
Concen: 10.53 ppb
RT: 5.391 min Scan# 1422
Delta R.T. -0.000 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

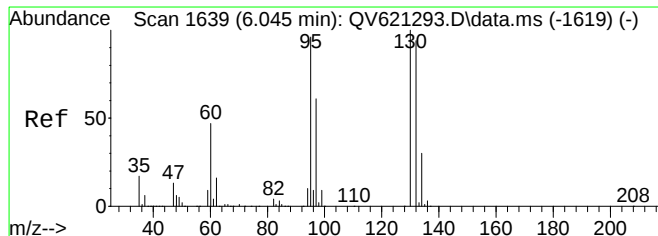
Tgt Ion: 65 Resp: 177550
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 52.0 34.0 70.6
102 20.5 10.1 30.1



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.735 min Scan# 2624
Delta R.T. 0.000 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

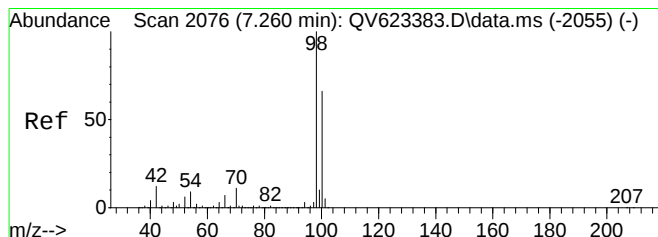
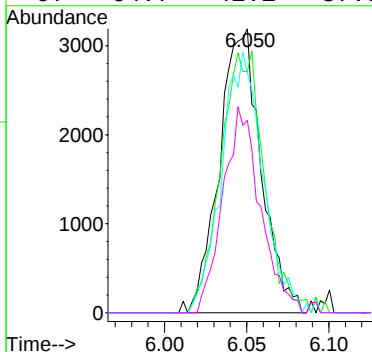
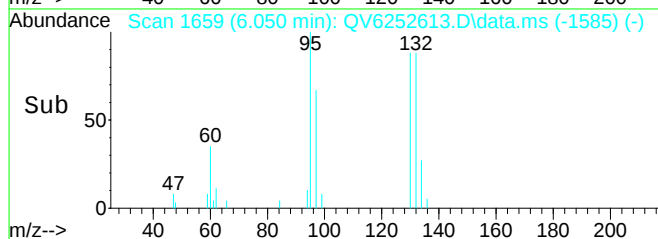
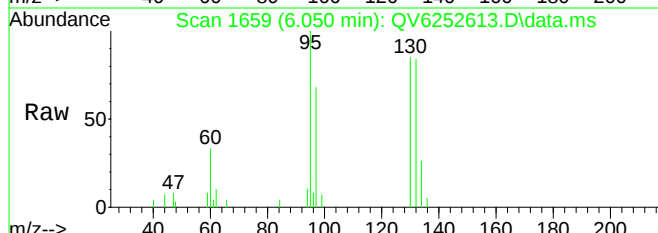
Tgt Ion: 117 Resp: 632572
Ion Ratio Lower Upper
117 100
82 54.5 34.5 71.7
119 32.1 20.9 43.3
54 20.1 18.1 37.5





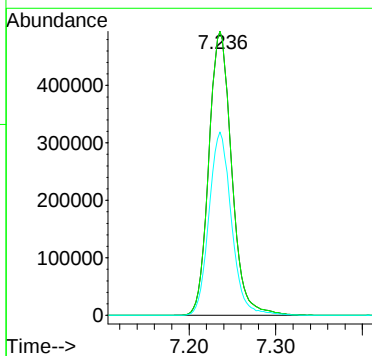
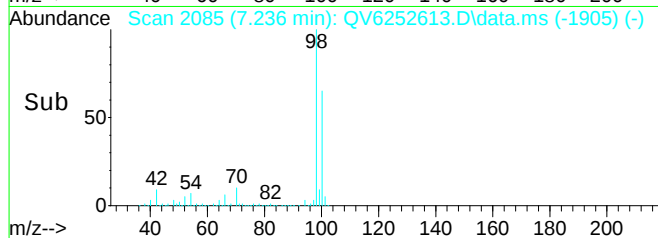
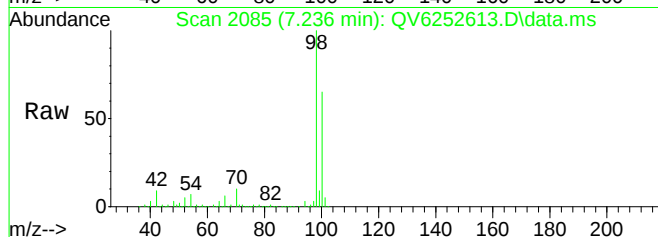
#45
Trichloroethylene
Concen: 0.39 ppb
RT: 6.050 min Scan# 1659
Delta R.T. 0.005 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

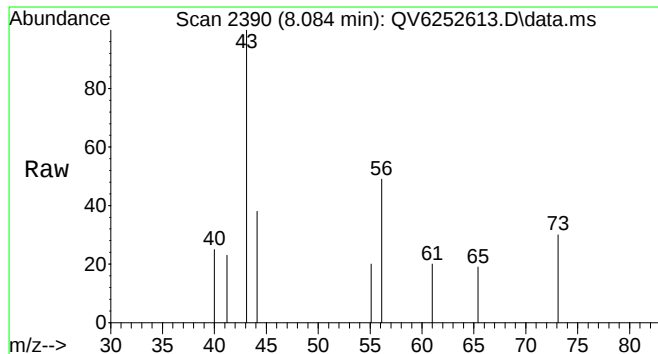
Tgt Ion: 95 Resp: 5650
Ion Ratio Lower Upper
95 100
130 95.5 70.0 145.4
132 90.6 69.6 144.6
97 64.7 42.1 87.3



#56
Toluene-d8 (SURRE)
Concen: 10.31 ppb
RT: 7.236 min Scan# 2085
Delta R.T. -0.000 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

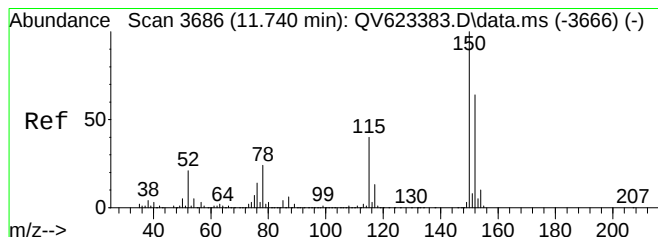
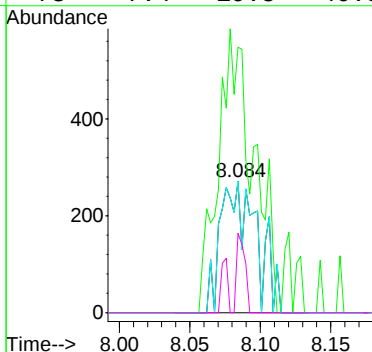
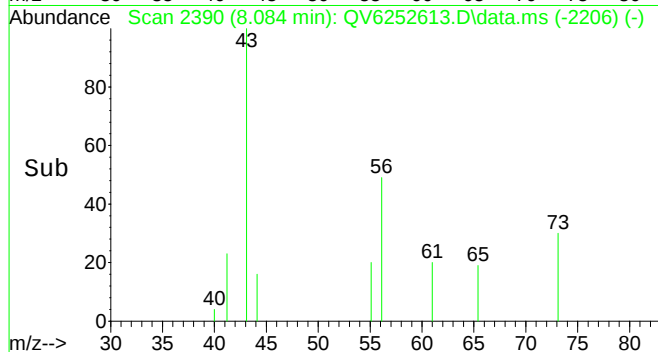
Tgt Ion: 98 Resp: 907467
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.6 44.2 91.8





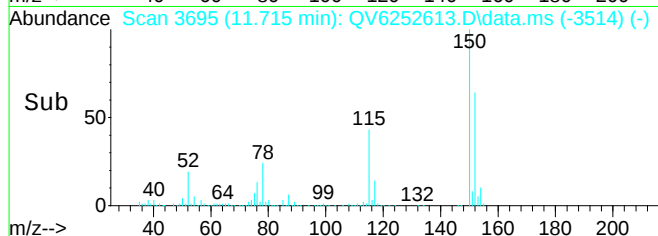
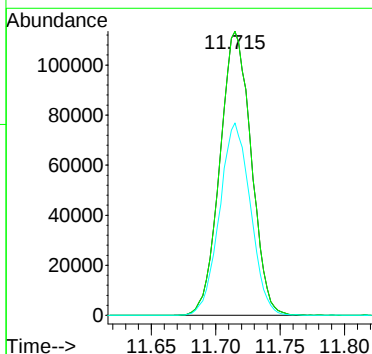
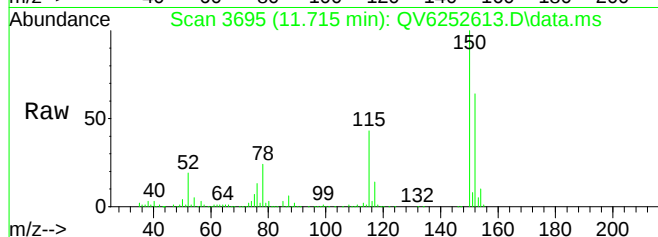
#65
n-Butyl Acetate
Concen: 0.18 ppb m
RT: 8.084 min Scan# 2390
Delta R.T. 0.011 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

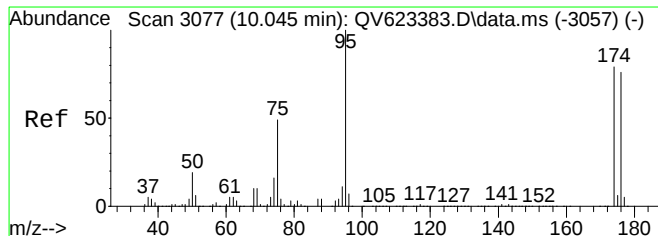
Tgt Ion	Ratio	Lower	Upper
56	100		
43	155.8	65.0	135.0#
56	55.0	45.5	94.5
73	7.4	19.5	40.5#



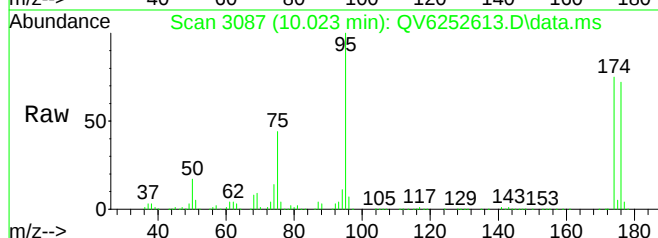
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.715 min Scan# 3695
Delta R.T. 0.003 min
Lab File: QV6252613.D
Acq: 20 Oct 2023 1:38 am

Tgt Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	67.0	29.8	89.3

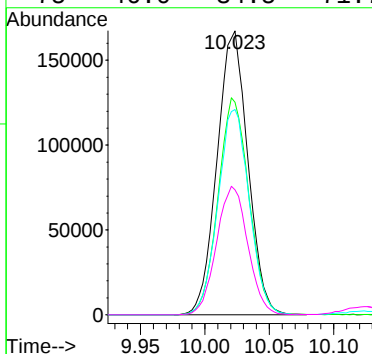
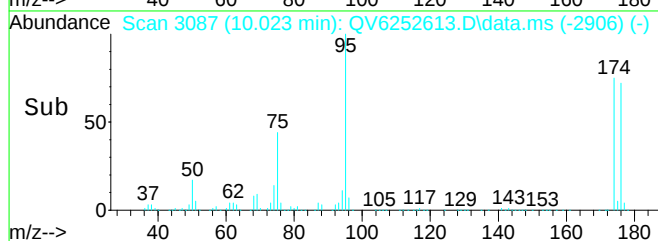




#79
 p-Bromofluorobenzene (SURR)
 Concen: 10.19 ppb
 RT: 10.023 min Scan# 3087
 Delta R.T. 0.002 min
 Lab File: QV6252613.D
 Acq: 20 Oct 2023 1:38 am



Tgt Ion:	95	Resp:	278607
Ion	Ratio	Lower	Upper
95	100		
174	76.3	62.5	129.9
176	73.7	60.7	126.1
75	46.0	34.5	71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW02_S_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-02 File ID: QV6252588.D
 Sampled: 10/17/23 12:30 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 15:22
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	1.61	
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	3.68	
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.530	
74-87-3	Chloromethane	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW02_S_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-02 File ID: QV6252588.D
 Sampled: 10/17/23 12:30 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 15:22
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	5.73	
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.660	
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	84.7	
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.63	96.3	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	177224	5.7	185237	5.697	
ISTD: Chlorobenzene-d5	656494	8.735	699711	8.732	
ISTD: 1,2-Dichlorobenzene-d4	211367	11.715	219846	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252588.D
 Acq On : 19 Oct 2023 3:22 pm
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-02
 Misc : QBQV6101923A 8260 B AF
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 19 16:14:25 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

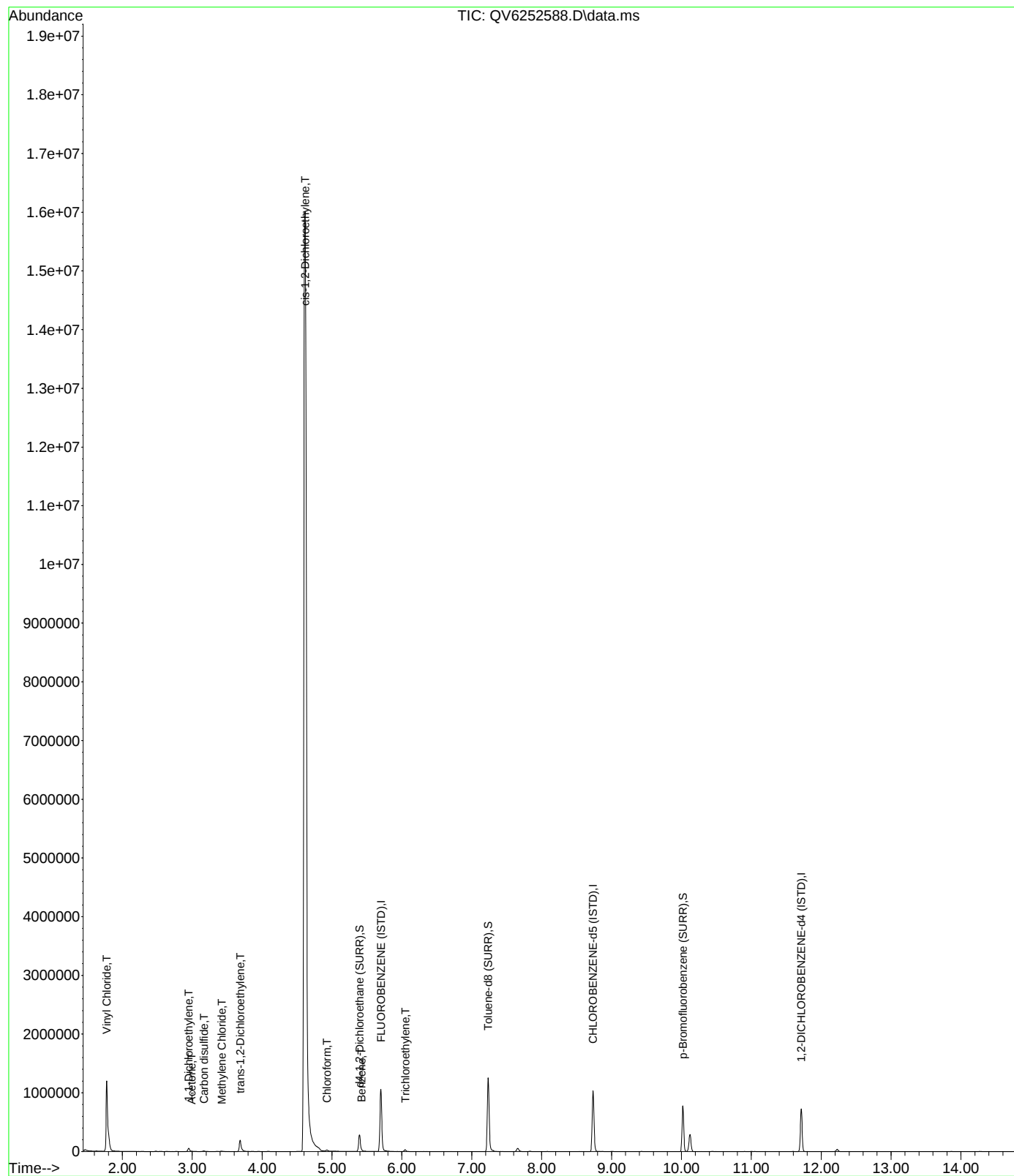
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

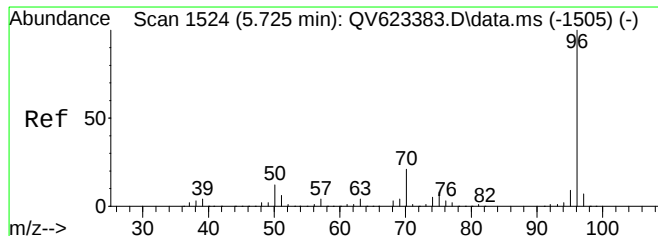
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	177224	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	656494	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.715	152	211367	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	185963	10.76	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	107.60%	
56) Toluene-d8 (SURR)	7.235	98	940322	10.30	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	103.00%	
79) p-Bromofluorobenzene (...)	10.021	95	290661	9.63	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	96.30%	
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.777	62	1216245	84.67	ppb	# 47
12) 1,1-Dichloroethylene	2.948	61	33170	1.61	ppb	# 61
14) Acetone	2.990	43	4673m	3.68	ppb	
18) Carbon disulfide	3.168	76	13245	0.35	ppb	100
20) Methylene Chloride	3.421	49	3230	0.20	ppb	# 73
22) trans-1,2-Dichloroethy...	3.685	61	117430	5.73	ppb	# 74
29) cis-1,2-Dichloroethylene	4.615	61	11264624	512.80	ppb	# 77
34) Chloroform	4.929	83	13239	0.53	ppb	# 84
42) Benzene	5.421	78	10521	0.19	ppb	# 1
45) Trichloroethylene	6.047	95	9945	0.66	ppb	91

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252588.D
Acq On : 19 Oct 2023 3:22 pm
InstName : QVOA6
Operator : JTG
Sample : 23J1154-02
Misc : QBQV6101923A 8260 B AF
ALS Vial : 15 Sample Multiplier: 1

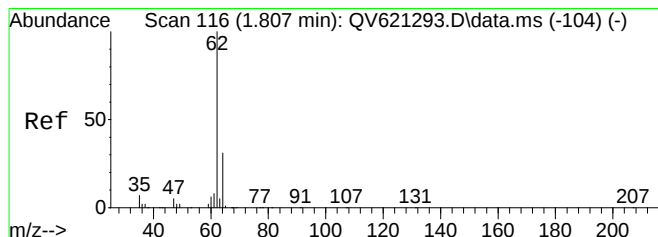
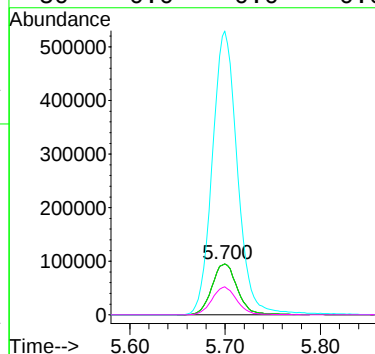
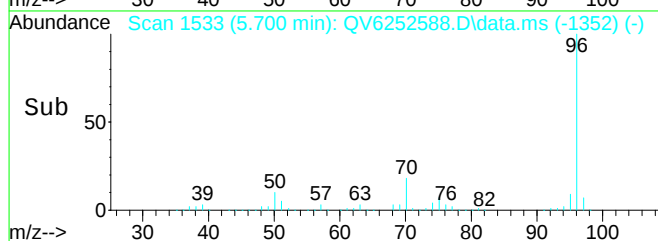
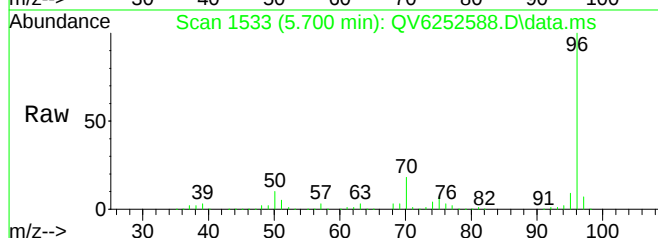
Quant Time: Oct 19 16:14:25 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





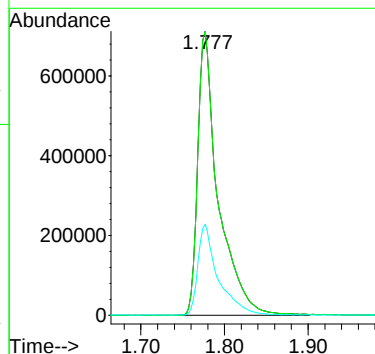
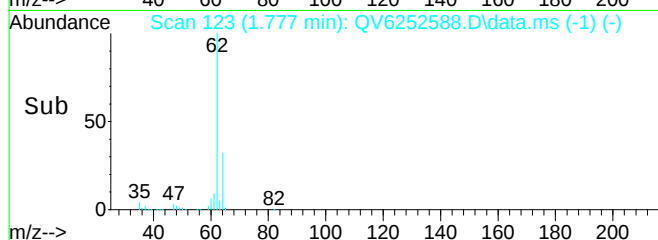
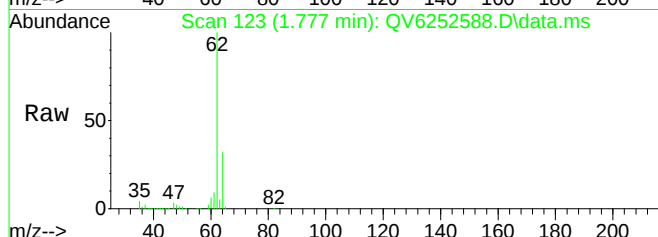
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252588.D
 Acq: 19 Oct 2023 3:22 pm

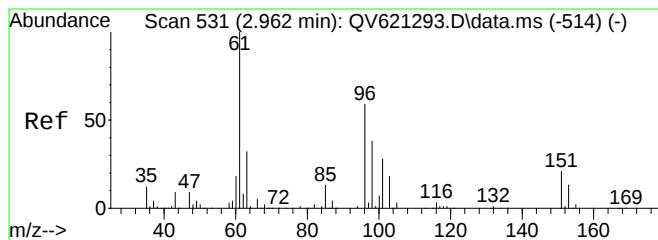
Tgt Ion: 70 Resp: 177224
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 551.3 341.1 708.3
 50 0.0 0.0 0.0



#5
 Vinyl Chloride
 Concen: 84.67 ppb
 RT: 1.777 min Scan# 123
 Delta R.T. 0.003 min
 Lab File: QV6252588.D
 Acq: 19 Oct 2023 3:22 pm

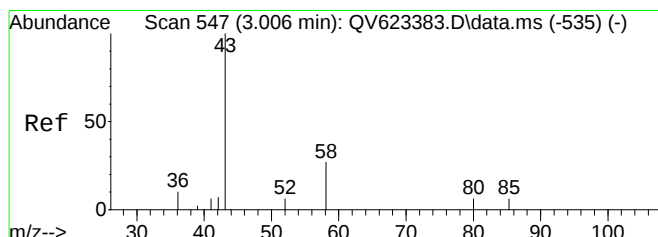
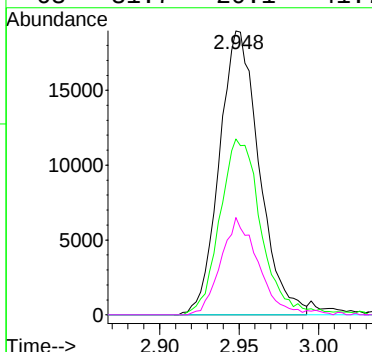
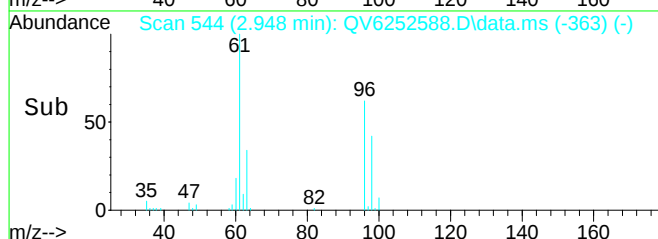
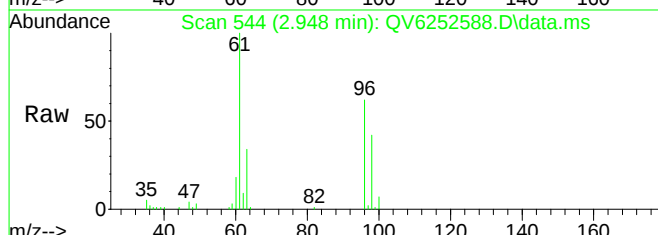
Tgt Ion: 62 Resp: 1216245
 Ion Ratio Lower Upper
 62 100
 62 100.0 36.0 74.8#
 64 31.6 12.5 25.9#





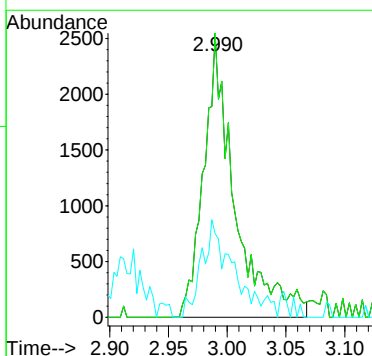
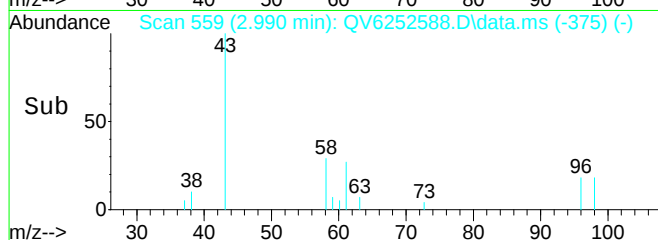
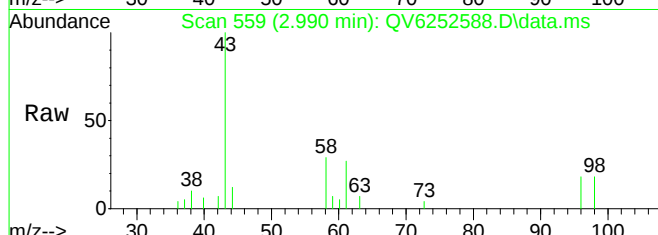
#12
1,1-Dichloroethylene
Concen: 1.61 ppb
RT: 2.948 min Scan# 544
Delta R.T. 0.003 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

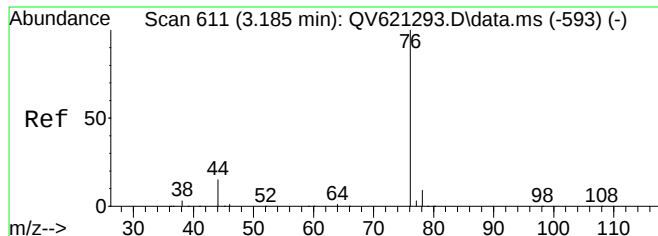
Tgt Ion: 61 Resp: 33170
Ion Ratio Lower Upper
61 100
96 64.3 33.6 69.8
101 0.0 37.0 77.0#
63 31.7 20.1 41.7



#14
Acetone
Concen: 3.68 ppb m
RT: 2.990 min Scan# 559
Delta R.T. 0.011 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

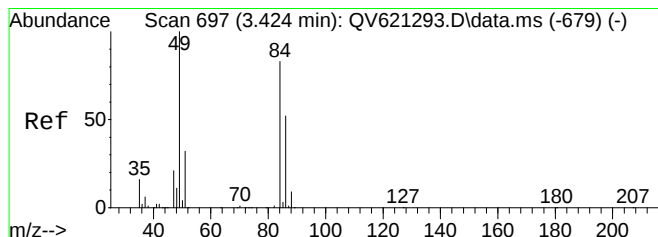
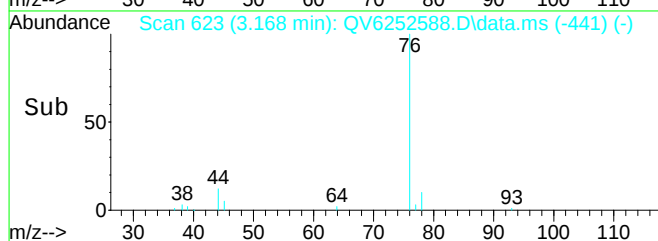
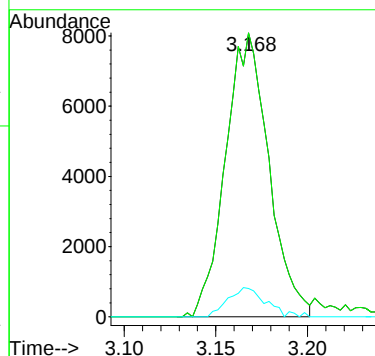
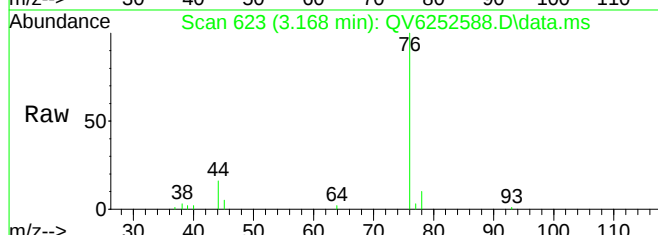
Tgt Ion: 43 Resp: 4673
Ion Ratio Lower Upper
43 100
43 5.2 80.0 120.0#
58 0.9 6.0 18.1#





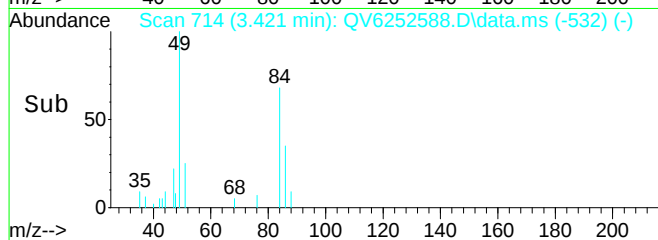
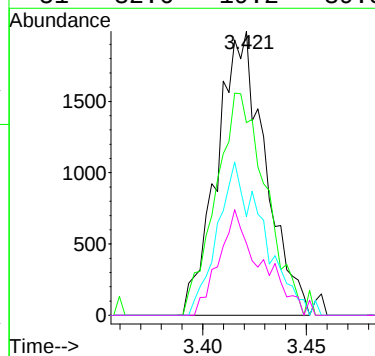
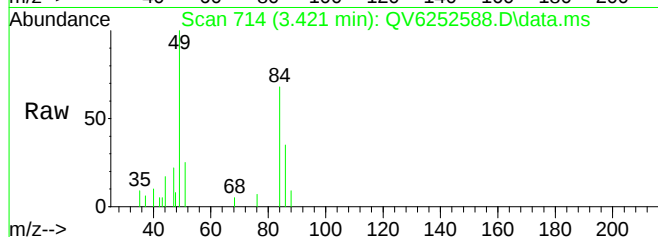
#18
Carbon disulfide
Concen: 0.35 ppb
RT: 3.168 min Scan# 623
Delta R.T. 0.006 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

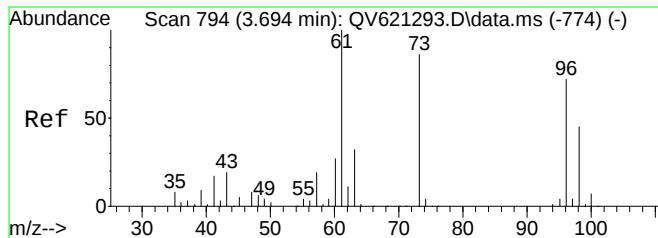
Tgt Ion: 76 Resp: 13245
Ion Ratio Lower Upper
76 100
76 100.0 65.0 135.0
78 8.9 4.5 13.4



#20
Methylene Chloride
Concen: 0.20 ppb
RT: 3.421 min Scan# 714
Delta R.T. 0.005 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

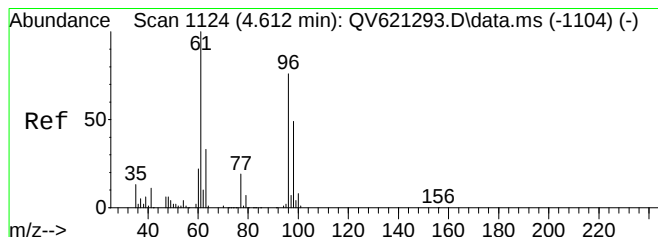
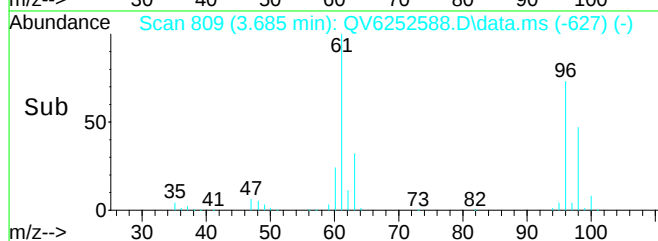
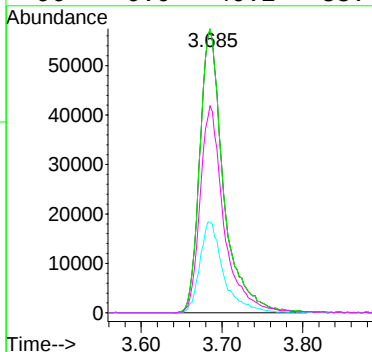
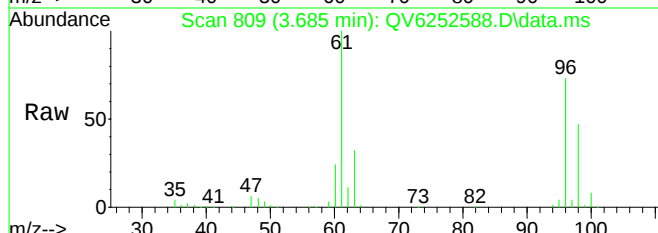
Tgt Ion: 49 Resp: 3230
Ion Ratio Lower Upper
49 100
84 80.9 35.0 72.8#
86 51.6 22.7 47.3#
51 32.6 19.2 39.8





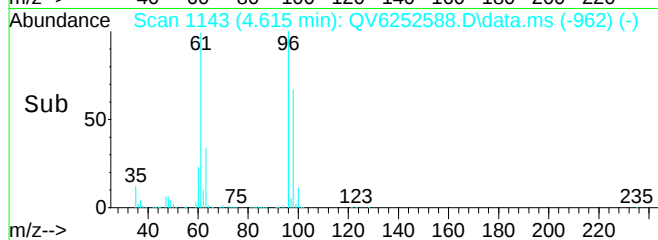
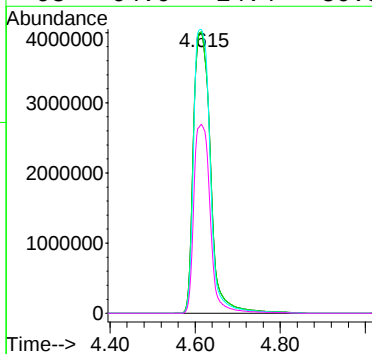
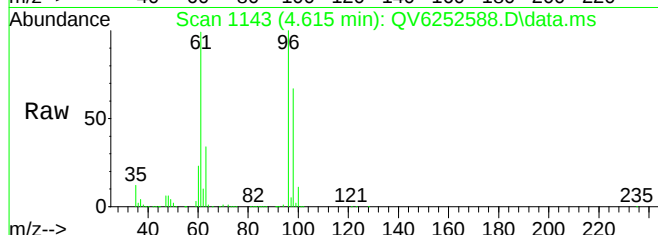
#22
trans-1,2-Dichloroethylene
Concen: 5.73 ppb
RT: 3.685 min Scan# 809
Delta R.T. 0.005 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

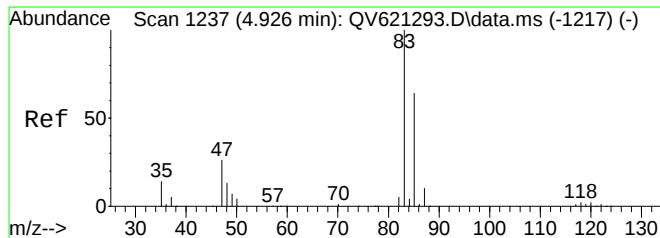
Tgt Ion: 61 Resp: 117430
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 31.9 20.9 43.3
96 0.0 40.2 83.4#



#29
cis-1,2-Dichloroethylene
Concen: 512.80 ppb
RT: 4.615 min Scan# 1143
Delta R.T. 0.003 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

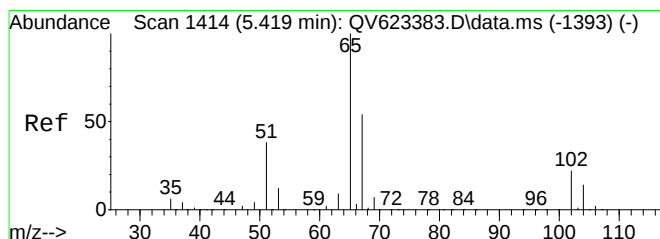
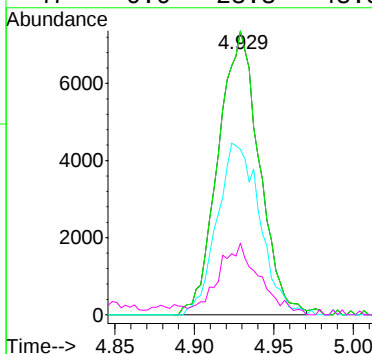
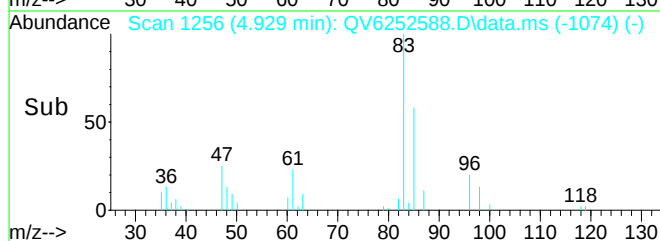
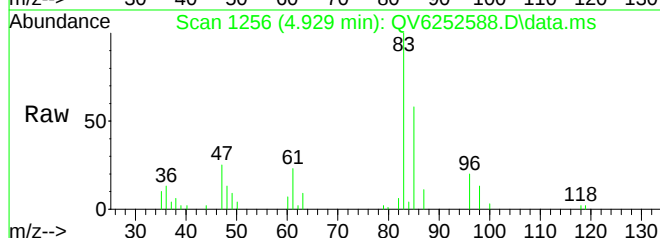
Tgt Ion: 61 Resp: 11264624
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 97.1 39.2 81.4#
98 64.0 24.4 50.8#





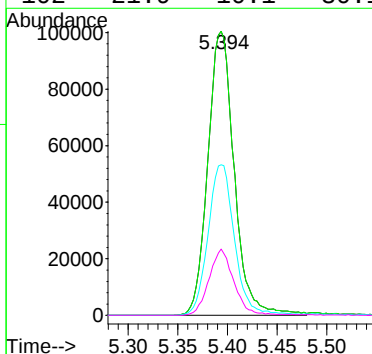
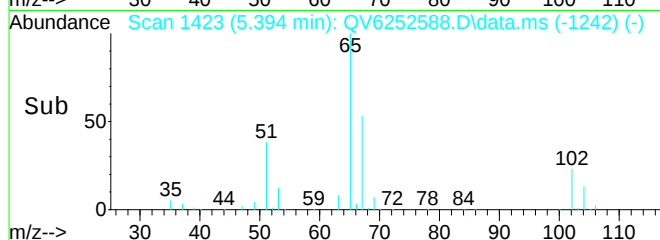
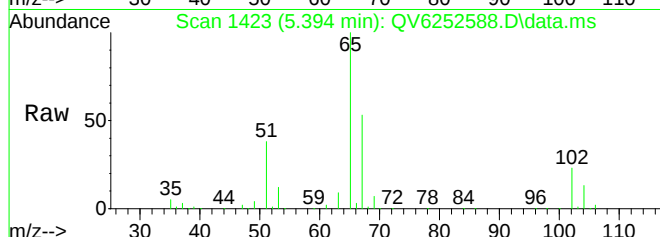
#34
Chloroform
Concen: 0.53 ppb
RT: 4.929 min Scan# 1256
Delta R.T. 0.005 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

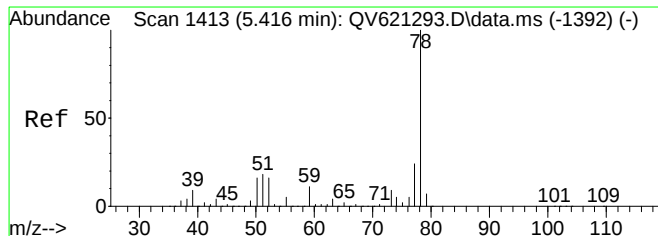
Tgt Ion: 83 Resp: 13239
Ion Ratio Lower Upper
83 100
83 100.0 65.0 135.0
85 63.2 0.0 0.0#
47 0.0 23.3 48.3#



#38
d4-1,2-Dichloroethane (Surr)
Concen: 10.76 ppb
RT: 5.394 min Scan# 1423
Delta R.T. 0.003 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

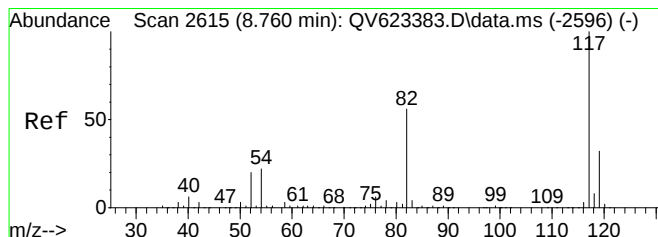
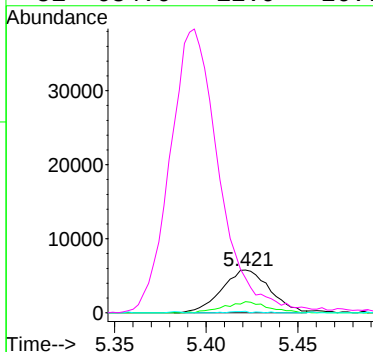
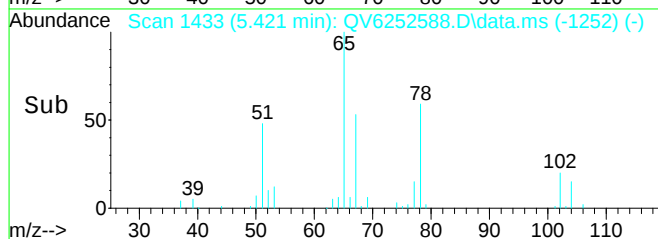
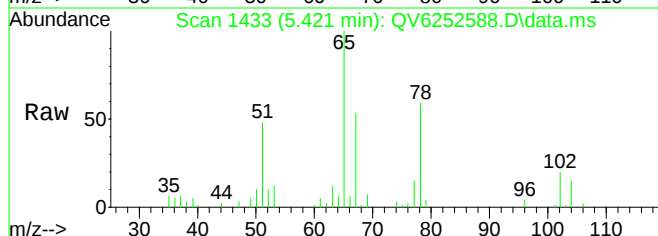
Tgt Ion: 65 Resp: 185963
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 53.2 34.0 70.6
102 21.9 10.1 30.1





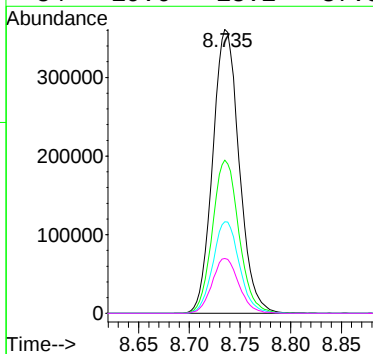
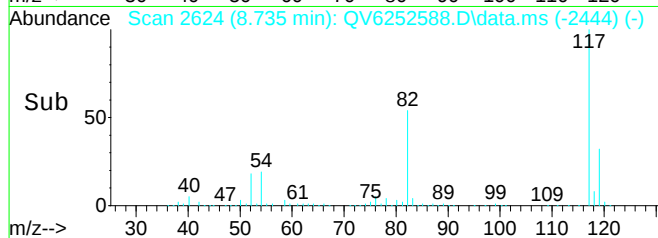
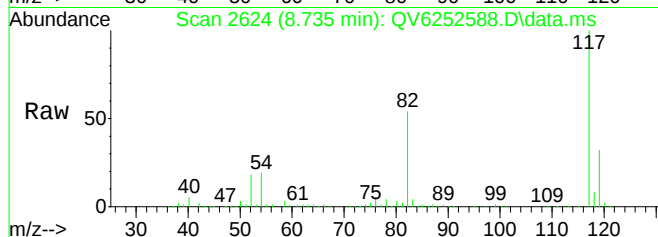
#42
Benzene
Concen: 0.19 ppb
RT: 5.421 min Scan# 1433
Delta R.T. 0.002 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

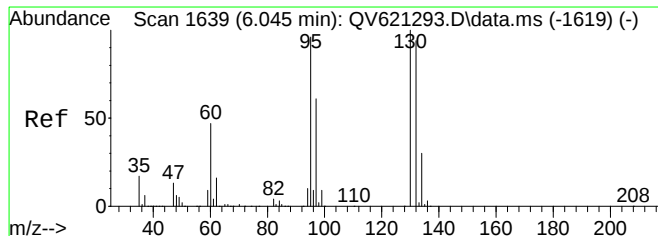
Tgt Ion: 78 Resp: 10521
Ion Ratio Lower Upper
78 100
77 23.5 15.7 32.5
62 0.0 22.9 47.5#
51 684.6 12.9 26.7#



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.735 min Scan# 2624
Delta R.T. 0.000 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

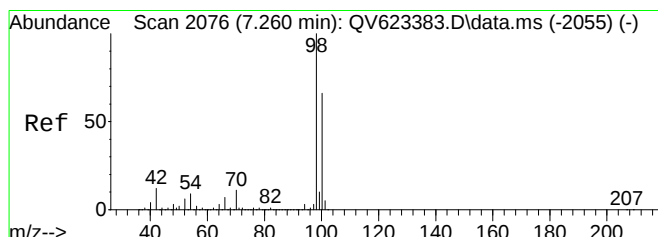
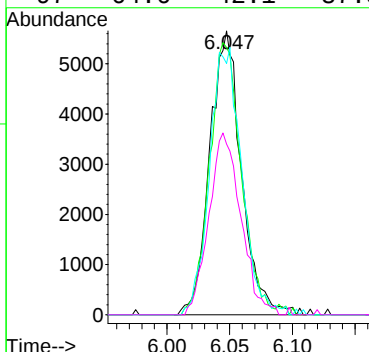
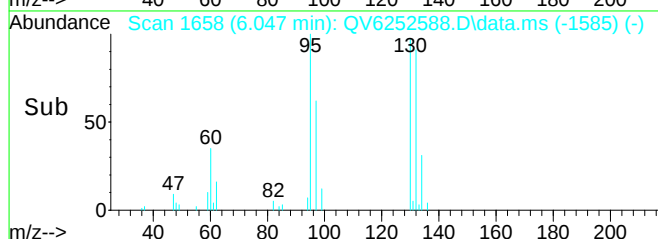
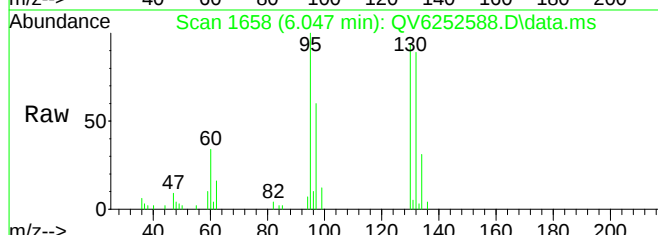
Tgt Ion: 117 Resp: 656494
Ion Ratio Lower Upper
117 100
82 53.9 34.5 71.7
119 32.3 20.9 43.3
54 19.6 18.1 37.5





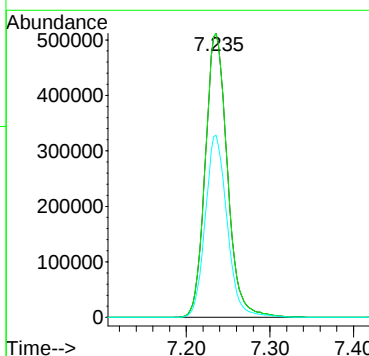
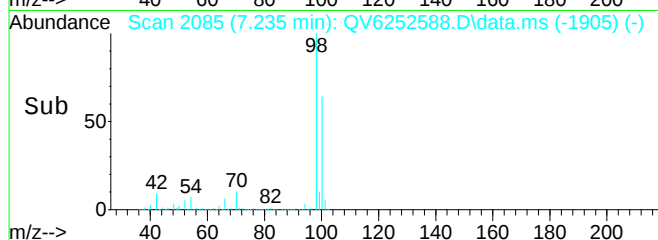
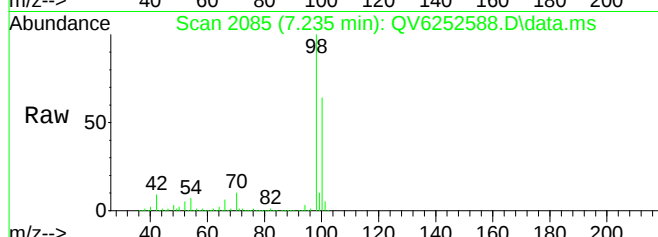
#45
Trichloroethylene
Concen: 0.66 ppb
RT: 6.047 min Scan# 1658
Delta R.T. 0.002 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

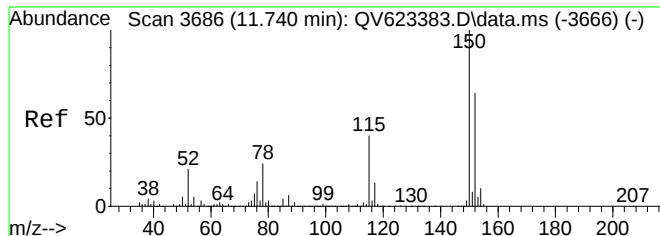
Tgt Ion:	95	Resp:	9945
Ion Ratio	Lower	Upper	
95	100		
130	95.7	70.0	145.4
132	95.3	69.6	144.6
97	64.6	42.1	87.3



#56
Toluene-d8 (SURRE)
Concen: 10.30 ppb
RT: 7.235 min Scan# 2085
Delta R.T. -0.001 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

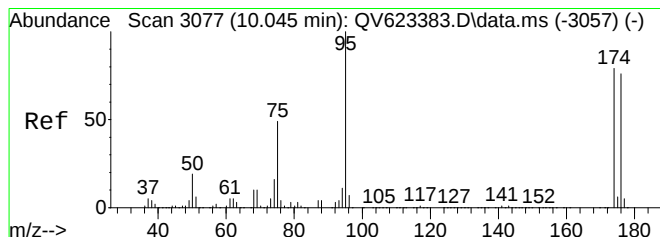
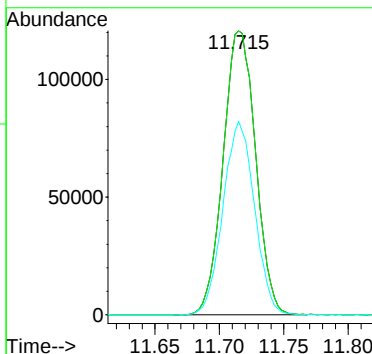
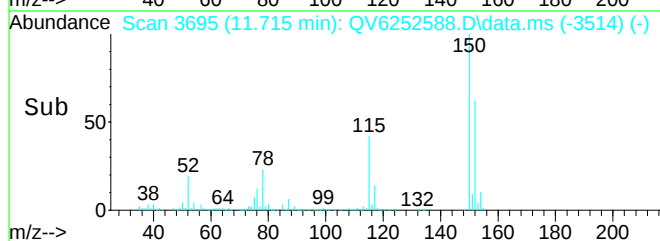
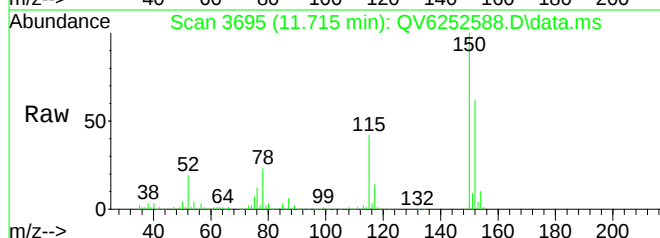
Tgt Ion:	98	Resp:	940322
Ion Ratio	Lower	Upper	
98	100		
98	100.0	65.0	135.0
100	63.5	44.2	91.8





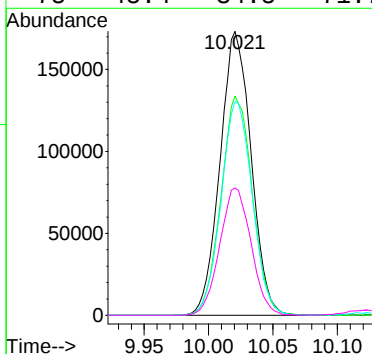
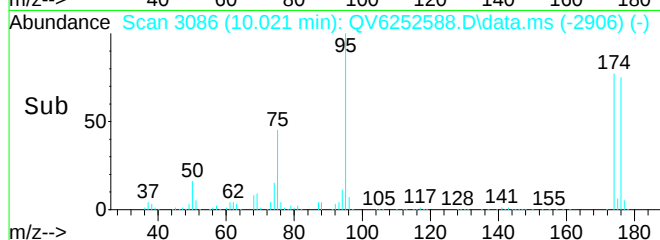
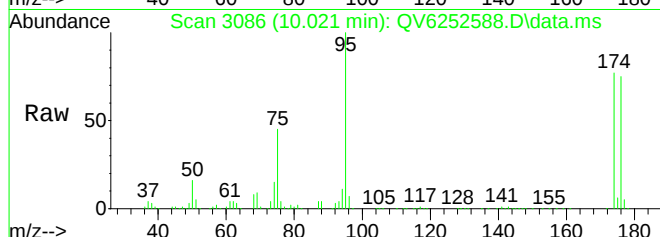
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.715 min Scan# 3695
Delta R.T. 0.003 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

Tgt Ion: 152 Resp: 211367
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 66.2 29.8 89.3



#79
p-Bromofluorobenzene (SURR)
Concen: 9.63 ppb
RT: 10.021 min Scan# 3086
Delta R.T. -0.001 min
Lab File: QV6252588.D
Acq: 19 Oct 2023 3:22 pm

Tgt Ion: 95 Resp: 290661
Ion Ratio Lower Upper
95 100
174 78.1 62.5 129.9
176 75.8 60.7 126.1
75 45.4 34.5 71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW02_S_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Ground Water Laboratory ID: 23J1154-02RE1 File ID: QV6252619.D
Sampled: 10/17/23 12:30 Prepared: 10/19/23 06:17 Analyzed: 10/20/23 04:06
Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Batch: BJ31371 Sequence: S3J2002 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	10	1310	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.4	104	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	167544	5.7	178352	5.7	
ISTD: Chlorobenzene-d5	602536	8.735	674501	8.735	
ISTD: 1,2-Dichlorobenzene-d4	180719	11.718	220537	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252619.D
 Acq On : 20 Oct 2023 4:06 am
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-02RE1
 Misc : QBQV6101923B 8260 C AF 5mL/50mL
 ALS Vial : 46 Sample Multiplier: 10

Quant Time: Oct 20 13:04:01 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

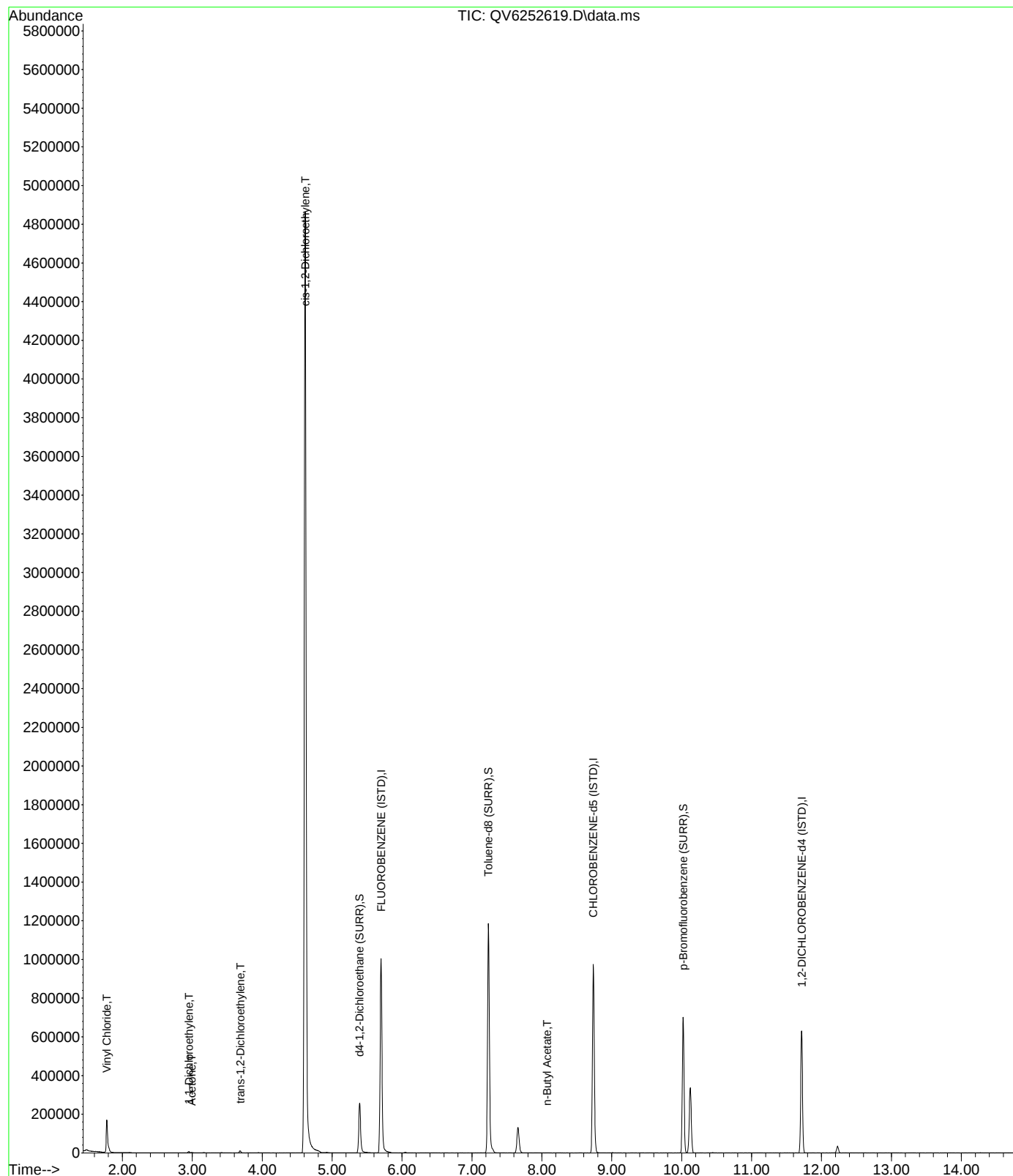
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

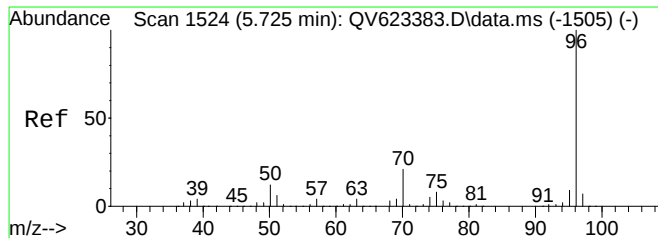
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	167544	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	602536	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.718	152	180719	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	169679	10.39	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	103.90%	
56) Toluene-d8 (SURR)	7.236	98	869510	10.37	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	103.70%	
79) p-Bromofluorobenzene (...)	10.021	95	266693	10.33	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	103.30%	
Target Compounds						
5) Vinyl Chloride	1.777	62	149929	11.04	ppb	# 47
12) 1,1-Dichloroethylene	2.951	61	3701	0.19	ppb	# 54
14) Acetone	2.990	43	2650m	2.21	ppb	
22) trans-1,2-Dichloroethy...	3.686	61	5422	0.28	ppb	97
29) cis-1,2-Dichloroethylene	4.615	61	2724743	131.21	ppb	# 87
65) n-Butyl Acetate	8.073	56	385m	0.15	ppb	

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252619.D
Acq On : 20 Oct 2023 4:06 am
InstName : QVOA6
Operator : JTG
Sample : 23J1154-02RE1
Misc : QBQV6101923B 8260 C AF 5mL/50mL
ALS Vial : 46 Sample Multiplier: 10

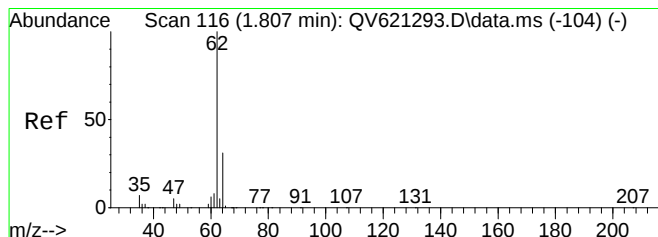
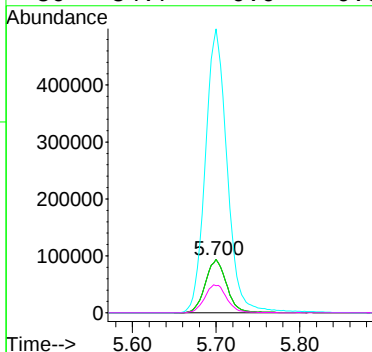
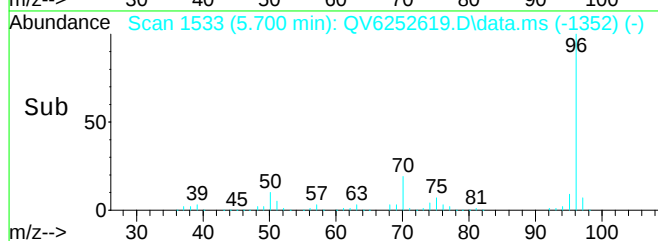
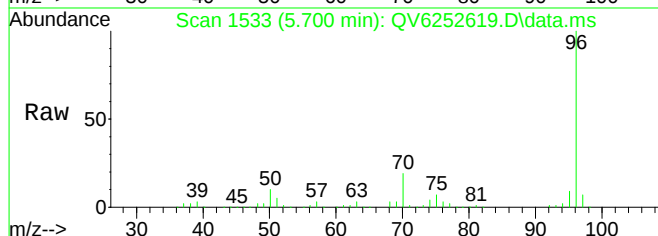
Quant Time: Oct 20 13:04:01 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





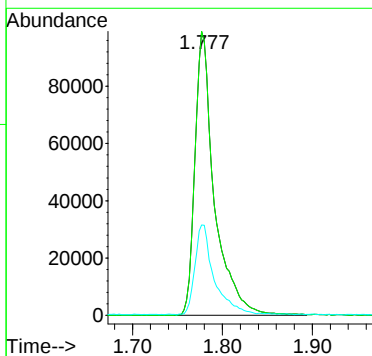
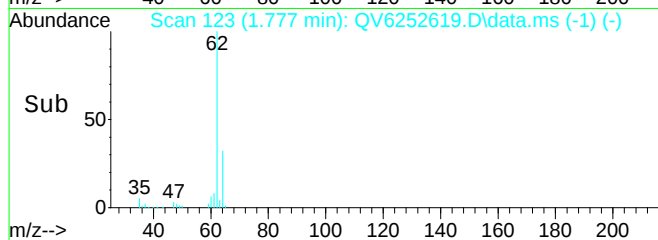
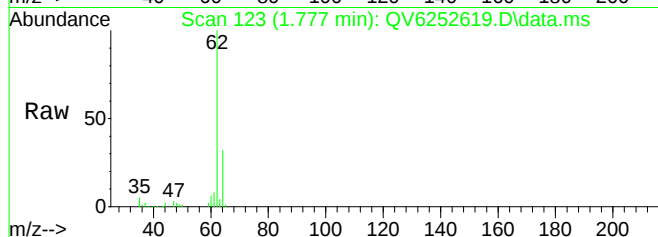
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252619.D
 Acq: 20 Oct 2023 4:06 am

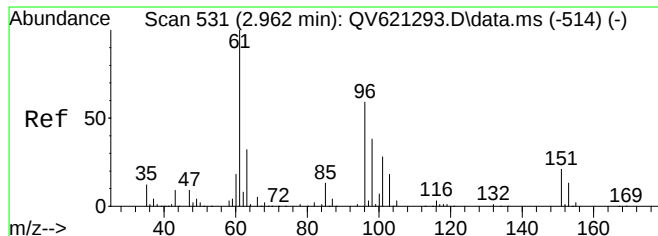
Tgt Ion: 70 Resp: 167544
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 0.0 341.1 708.3#
 50 54.7 0.0 0.0#



#5
 Vinyl Chloride
 Concen: 11.04 ppb
 RT: 1.777 min Scan# 123
 Delta R.T. 0.003 min
 Lab File: QV6252619.D
 Acq: 20 Oct 2023 4:06 am

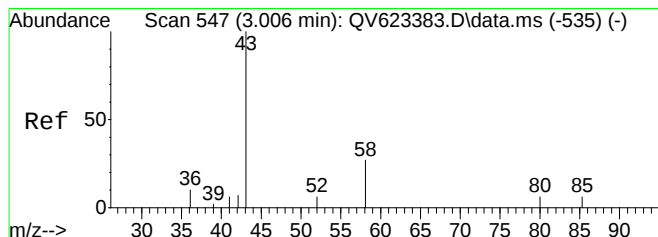
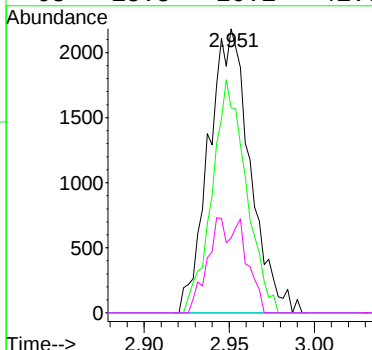
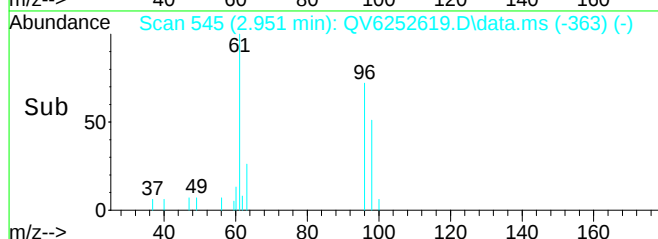
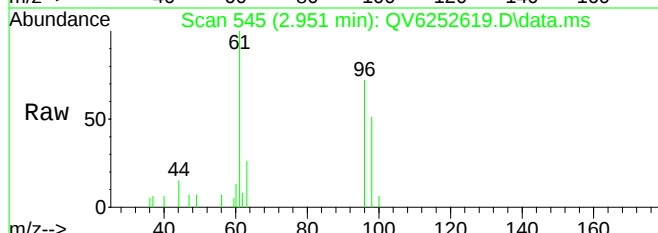
Tgt Ion: 62 Resp: 149929
 Ion Ratio Lower Upper
 62 100
 62 100.0 36.0 74.8#
 64 31.5 12.5 25.9#





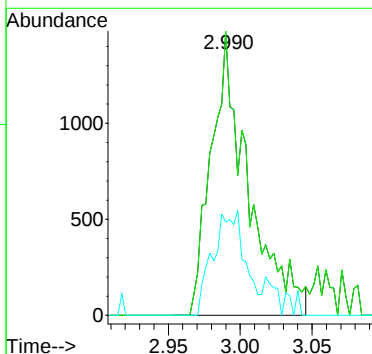
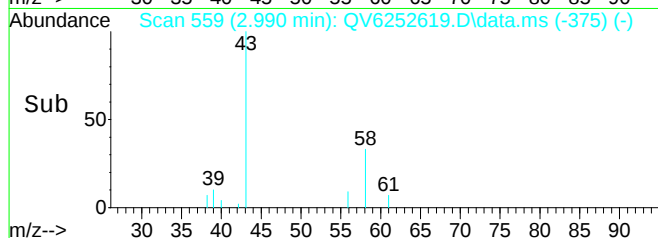
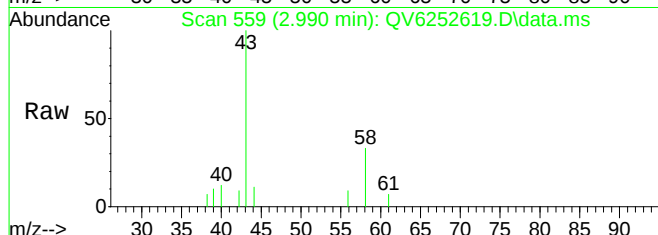
#12
1,1-Dichloroethylene
Concen: 0.19 ppb
RT: 2.951 min Scan# 545
Delta R.T. 0.006 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

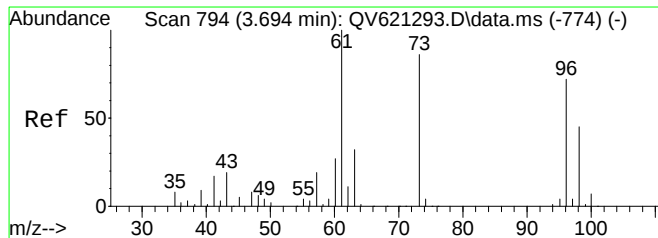
Tgt Ion: 61 Resp: 3701
Ion Ratio Lower Upper
61 100
96 67.3 33.6 69.8
101 0.0 37.0 77.0#
63 15.5 20.1 41.7#



#14
Acetone
Concen: 2.21 ppb m
RT: 2.990 min Scan# 559
Delta R.T. 0.011 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

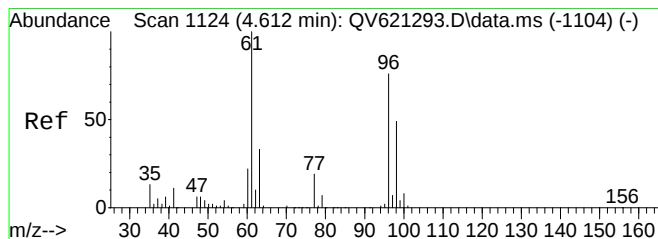
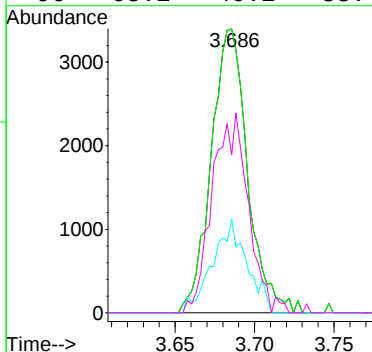
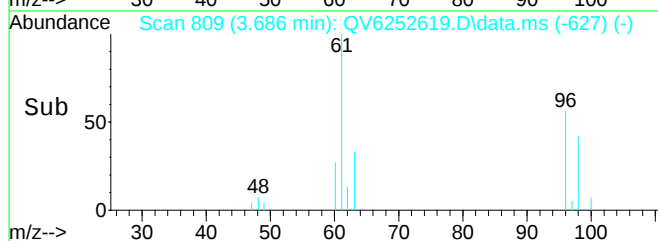
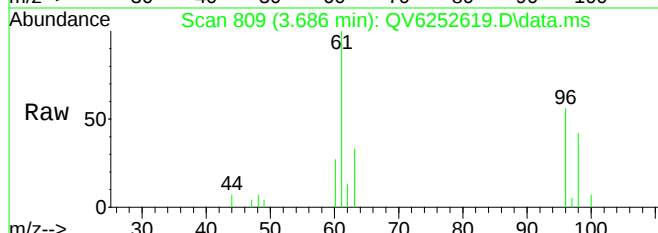
Tgt Ion: 43 Resp: 2650
Ion Ratio Lower Upper
43 100
43 94.6 80.0 120.0
58 0.0 6.0 18.1#





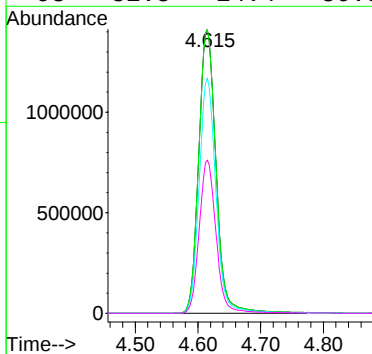
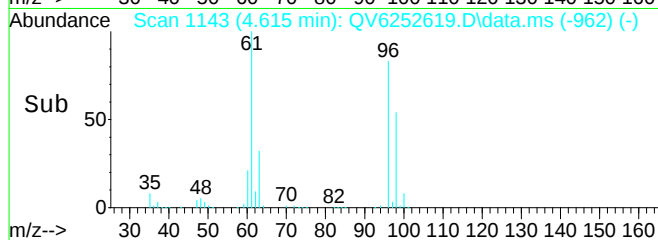
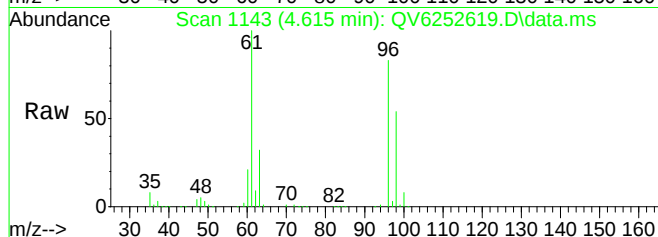
#22
trans-1,2-Dichloroethylene
Concen: 0.28 ppb
RT: 3.686 min Scan# 809
Delta R.T. 0.006 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

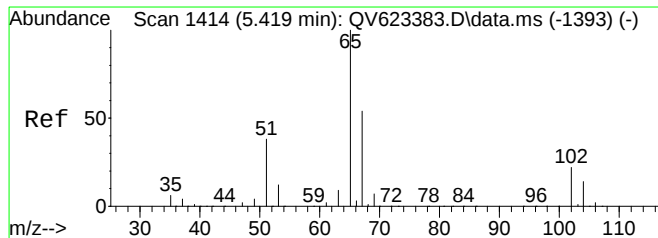
Tgt Ion: 61 Resp: 5422
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 31.0 20.9 43.3
96 68.2 40.2 83.4



#29
cis-1,2-Dichloroethylene
Concen: 131.21 ppb
RT: 4.615 min Scan# 1143
Delta R.T. 0.003 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

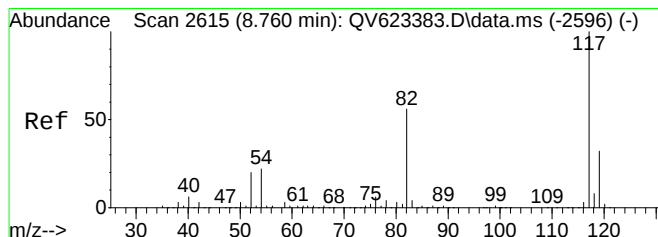
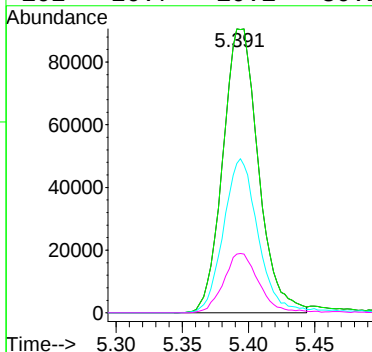
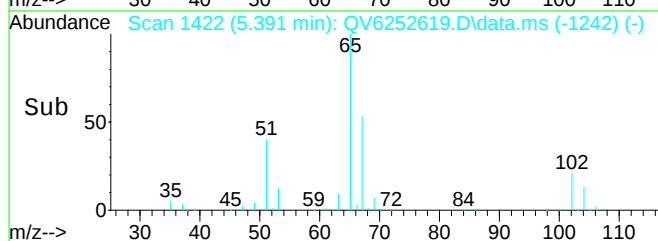
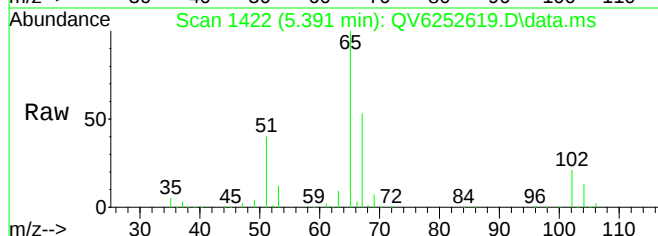
Tgt Ion: 61 Resp: 2724743
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 80.6 39.2 81.4
98 52.5 24.4 50.8#





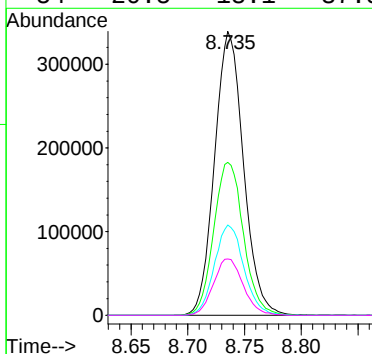
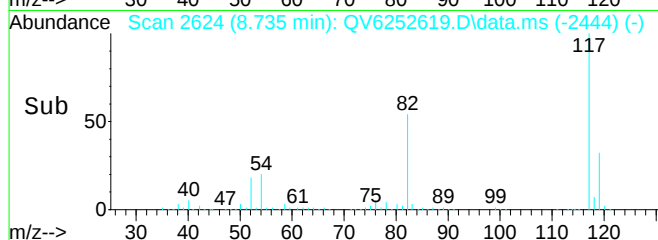
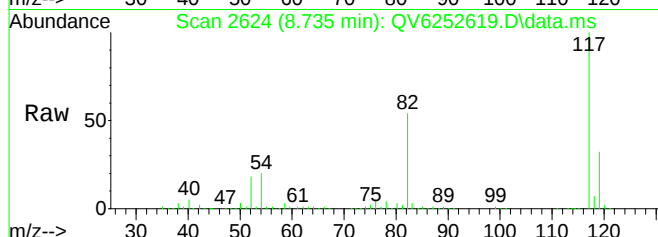
#38
d4-1,2-Dichloroethane (SURRE)
Concen: 10.39 ppb
RT: 5.391 min Scan# 1422
Delta R.T. 0.000 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

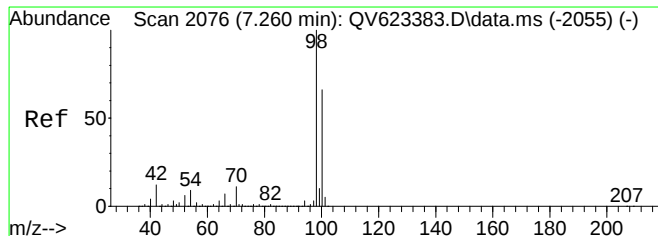
Tgt Ion: 65 Resp: 169679
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 53.4 34.0 70.6
102 20.7 10.1 30.1



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.735 min Scan# 2624
Delta R.T. 0.000 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

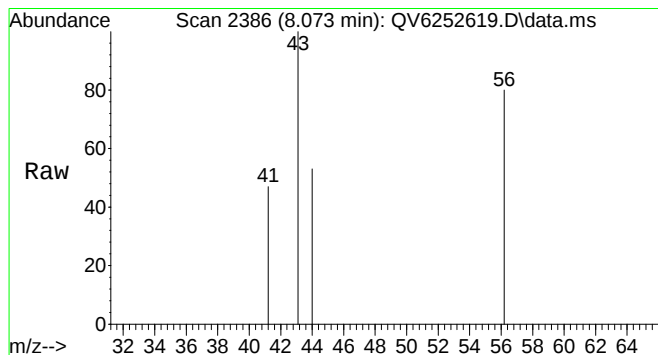
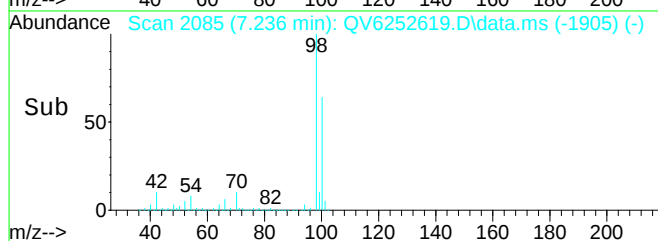
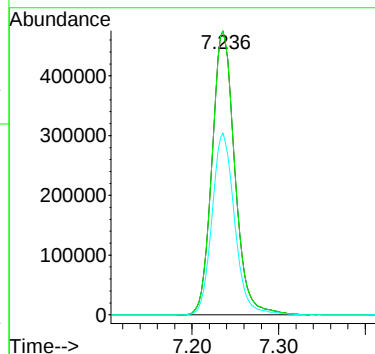
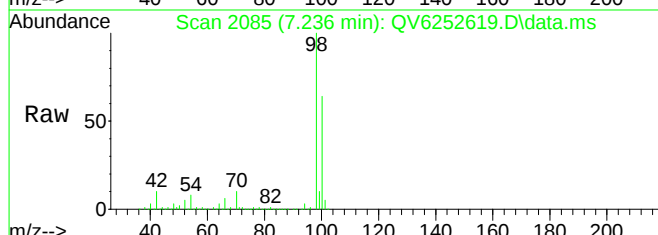
Tgt Ion: 117 Resp: 602536
Ion Ratio Lower Upper
117 100
82 55.2 34.5 71.7
119 32.3 20.9 43.3
54 20.5 18.1 37.5





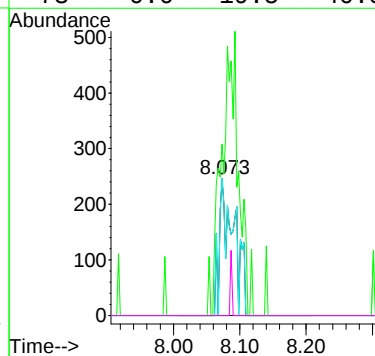
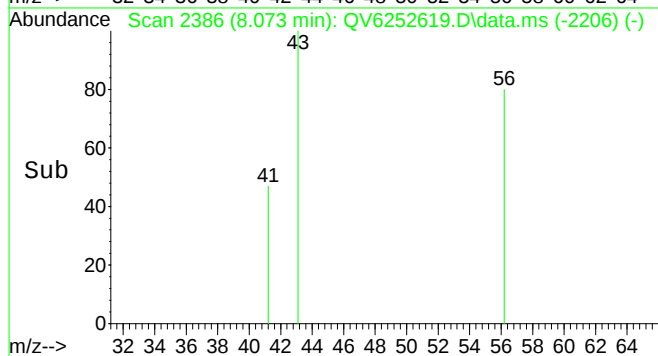
#56
Toluene-d8 (SURR)
Concen: 10.37 ppb
RT: 7.236 min Scan# 2085
Delta R.T. -0.000 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

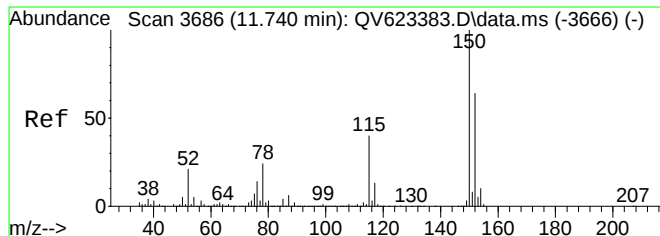
Tgt Ion: 98 Resp: 869510
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.4 44.2 91.8



#65
n-Butyl Acetate
Concen: 0.15 ppb m
RT: 8.073 min Scan# 2386
Delta R.T. 0.000 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

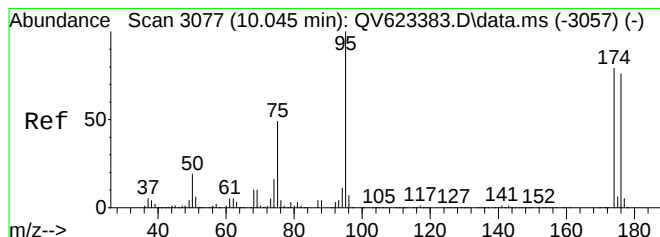
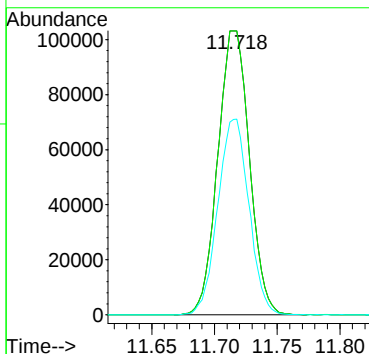
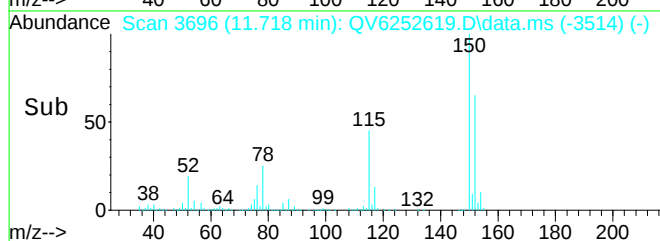
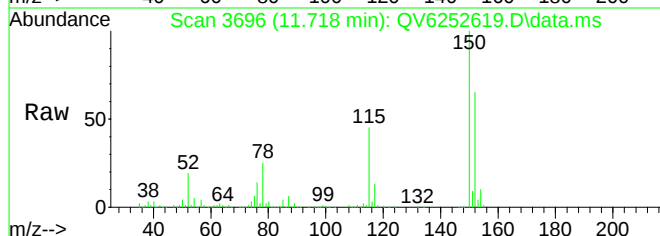
Tgt Ion: 56 Resp: 385
Ion Ratio Lower Upper
56 100
43 0.0 65.0 135.0#
56 38.4 45.5 94.5#
73 0.0 19.5 40.5#





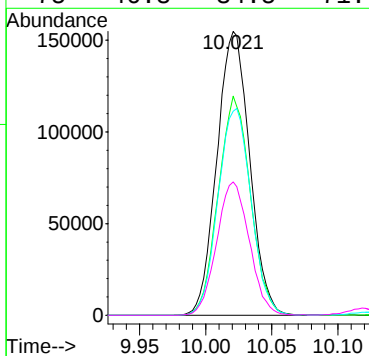
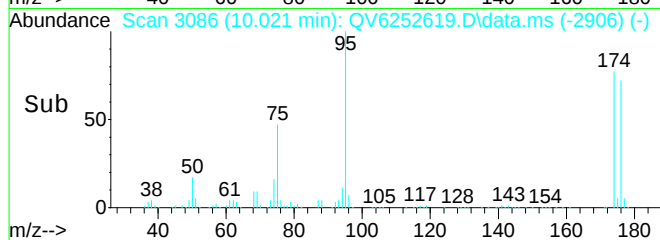
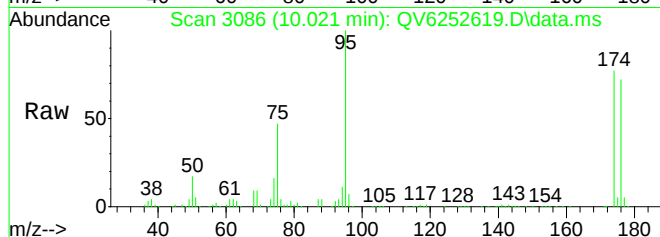
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.718 min Scan# 3696
Delta R.T. 0.006 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

Tgt Ion: 152 Resp: 180719
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 68.0 29.8 89.3



#79
p-Bromofluorobenzene (SURR)
Concen: 10.33 ppb
RT: 10.021 min Scan# 3086
Delta R.T. -0.000 min
Lab File: QV6252619.D
Acq: 20 Oct 2023 4:06 am

Tgt Ion: 95 Resp: 266693
Ion Ratio Lower Upper
95 100
174 75.6 62.5 129.9
176 73.6 60.7 126.1
75 46.8 34.5 71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW01_D_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-03 File ID: QV6252590.D
 Sampled: 10/17/23 14:20 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 16:12
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	1.90	
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.690	
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	6.46	
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW01_D_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-03 File ID: QV6252590.D
 Sampled: 10/17/23 14:20 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 16:12
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	2.80	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.01	
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	18.3	
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	7.92	
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	47.7	
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	61.2	
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.59	95.9	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	178710	5.697	185237	5.697	
ISTD: Chlorobenzene-d5	656855	8.735	699711	8.732	
ISTD: 1,2-Dichlorobenzene-d4	213408	11.712	219846	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252590.D
 Acq On : 19 Oct 2023 4:12 pm
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-03
 Misc : QBQV6101923A 8260 B AF
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 19 23:06:48 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

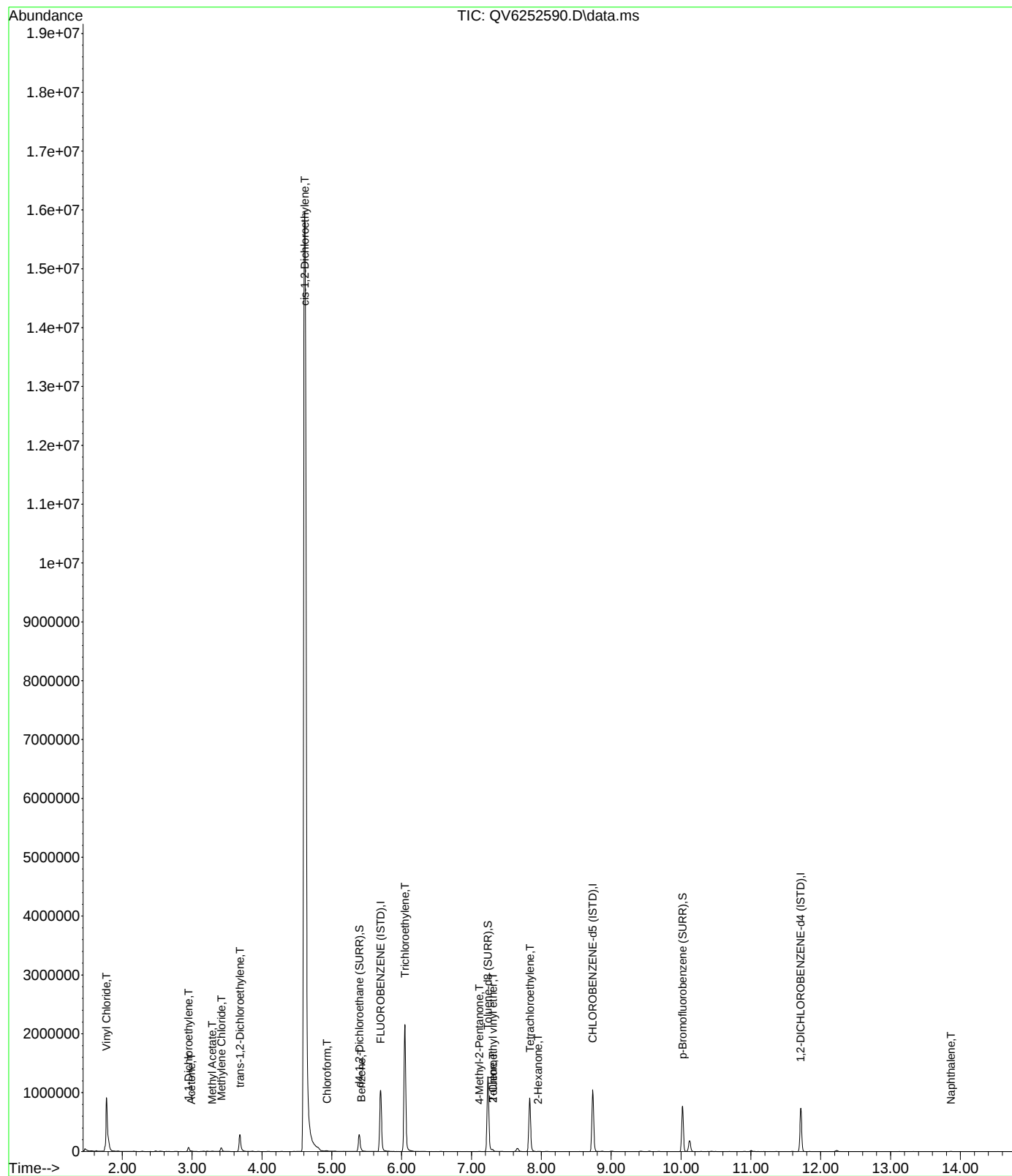
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

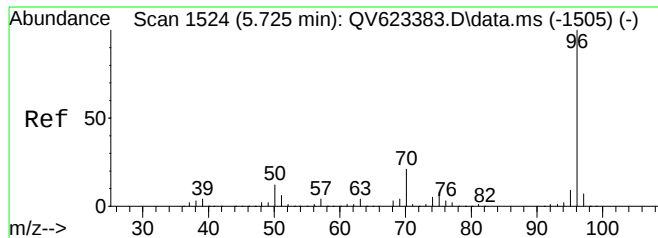
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	178710	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	656855	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.712	152	213408	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	187814	10.78	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	107.80%	
56) Toluene-d8 (SURR)	7.236	98	940723	10.29	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.90%	
79) p-Bromofluorobenzene (...)	10.021	95	292274	9.59	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	95.90%	
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.774	62	886862	61.22	ppb	# 47
12) 1,1-Dichloroethylene	2.948	61	39637	1.90	ppb	# 62
14) Acetone	2.987	43	8256	6.46	ppb	# 93
17) Methyl Acetate	3.285	43	8496	2.80	ppb	# 95
20) Methylene Chloride	3.418	49	33264	2.01	ppb	# 74
22) trans-1,2-Dichloroethy...	3.683	61	163804	7.92	ppb	96
29) cis-1,2-Dichloroethylene	4.612	61	11140193	502.92	ppb	# 73
34) Chloroform	4.932	83	5038	0.20	ppb	# 84
42) Benzene	5.422	78	14982	0.27	ppb	# 1
45) Trichloroethylene	6.045	95	719320	47.74	ppb	93
53) 2-Chloroethyl vinyl ether	7.308	63	1464m	0.34	ppb	
55) 4-Methyl-2-Pentanone	7.110	43	795m	0.24	ppb	
57) Toluene	7.305	91	18539	0.33	ppb	100
63) Tetrachloroethylene	7.837	166	285087	18.31	ppb	# 100
64) 2-Hexanone	7.953	43	1532m	0.69	ppb	
109) Naphthalene	13.863	128	2111	0.18	ppb	# 78

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252590.D
Acq On : 19 Oct 2023 4:12 pm
InstName : QVOA6
Operator : JTG
Sample : 23J1154-03
Misc : QBQV6101923A 8260 B AF
ALS Vial : 17 Sample Multiplier: 1

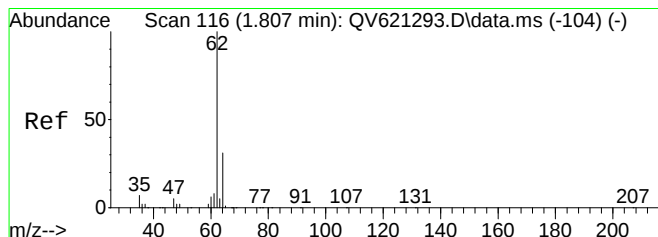
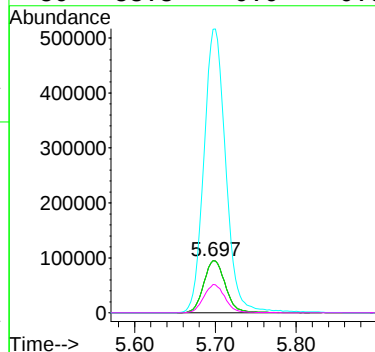
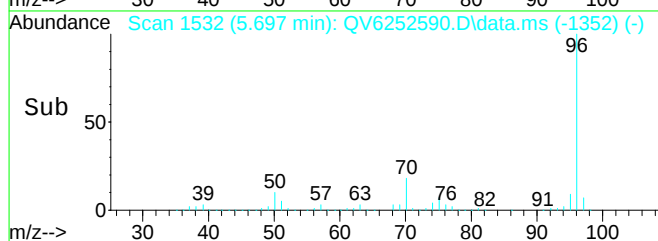
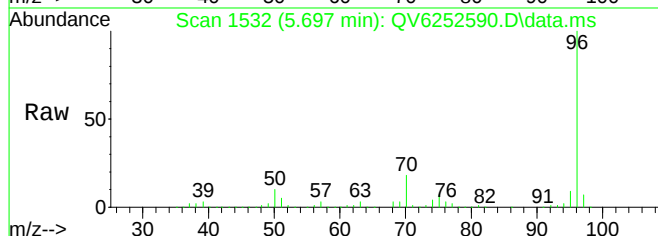
Quant Time: Oct 19 23:06:48 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





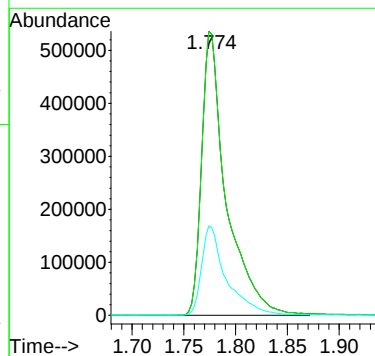
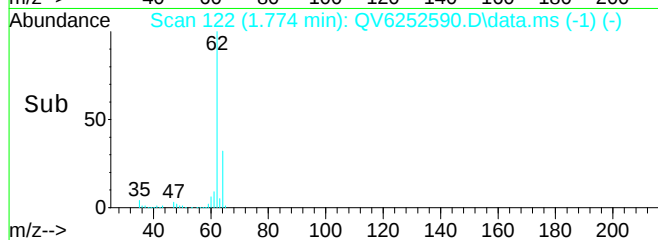
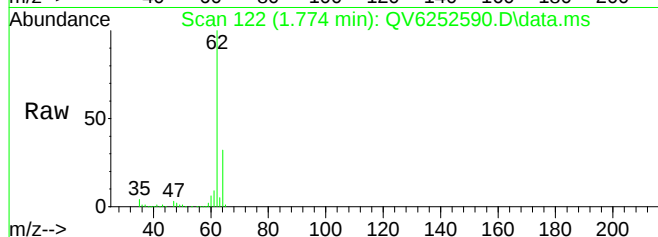
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.697 min Scan# 1532
 Delta R.T. 0.000 min
 Lab File: QV6252590.D
 Acq: 19 Oct 2023 4:12 pm

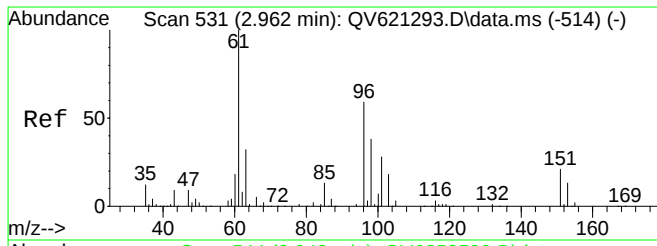
Tgt Ion: 70 Resp: 178710
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 0.0 341.1 708.3#
 50 53.3 0.0 0.0#



#5
 Vinyl Chloride
 Concen: 61.22 ppb
 RT: 1.774 min Scan# 122
 Delta R.T. 0.000 min
 Lab File: QV6252590.D
 Acq: 19 Oct 2023 4:12 pm

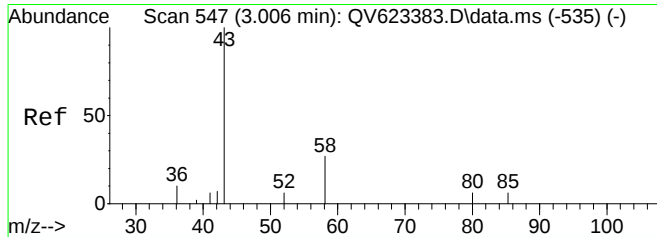
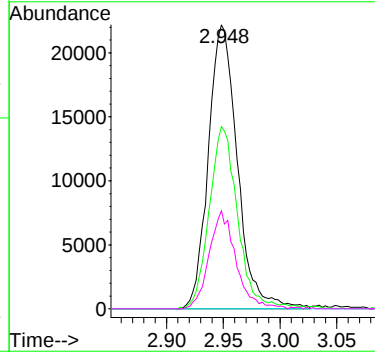
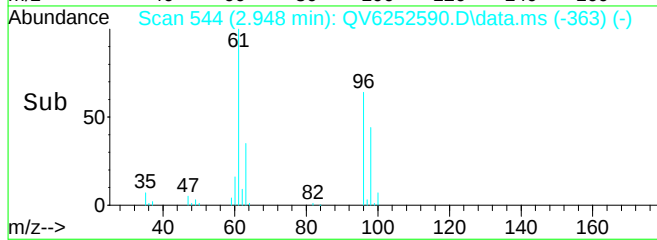
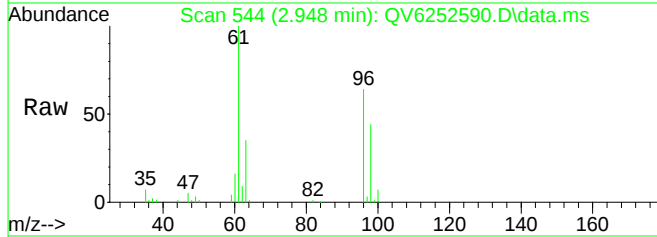
Tgt Ion: 62 Resp: 886862
 Ion Ratio Lower Upper
 62 100
 62 100.0 36.0 74.8#
 64 31.5 12.5 25.9#





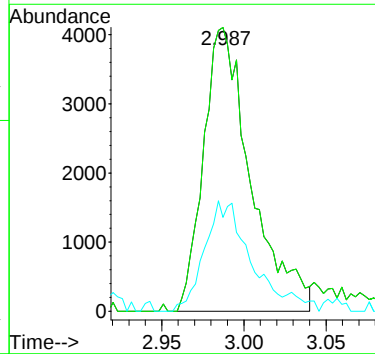
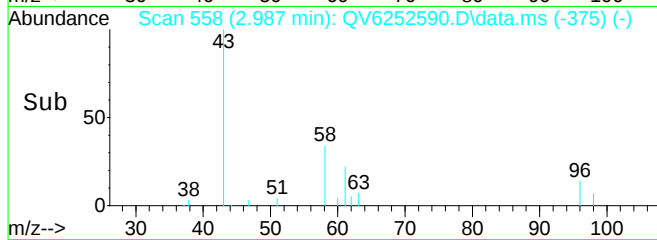
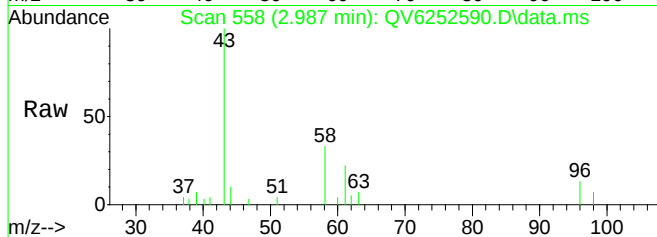
#12
1,1-Dichloroethylene
Concen: 1.90 ppb
RT: 2.948 min Scan# 544
Delta R.T. 0.003 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

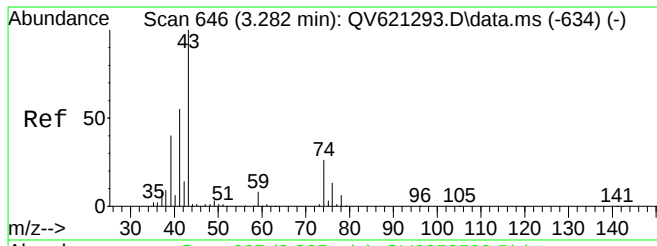
Tgt Ion:	61	Resp:	39637
Ion Ratio	Lower	Upper	
61	100		
96	62.7	33.6	69.8
101	0.0	37.0	77.0#
63	31.7	20.1	41.7



#14
Acetone
Concen: 6.46 ppb
RT: 2.987 min Scan# 558
Delta R.T. 0.008 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

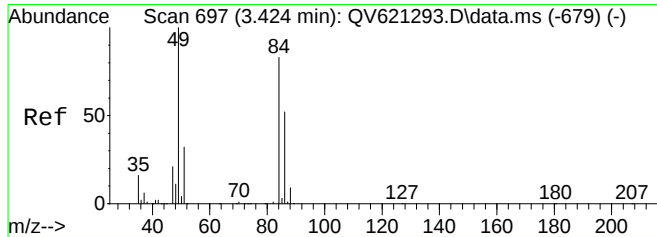
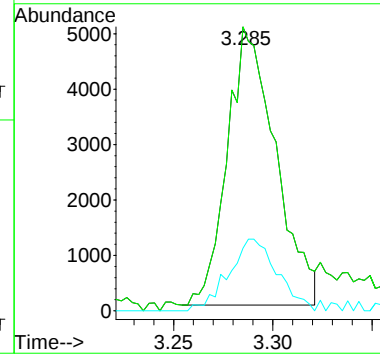
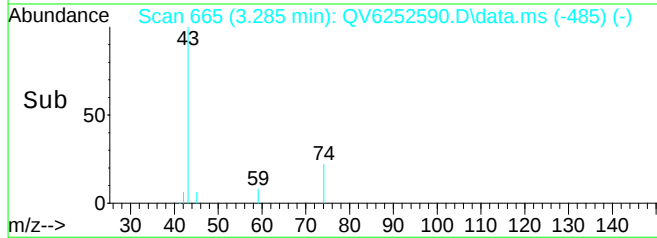
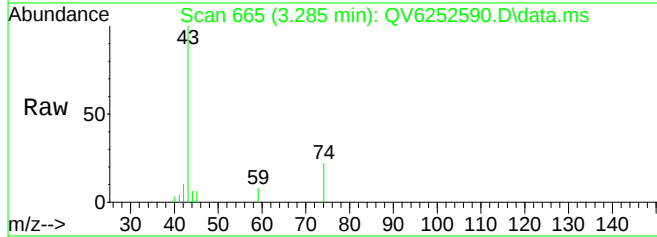
Tgt Ion:	43	Resp:	8256
Ion Ratio	Lower	Upper	
43	100		
43	100.0	80.0	120.0
58	35.9	6.0	18.1#





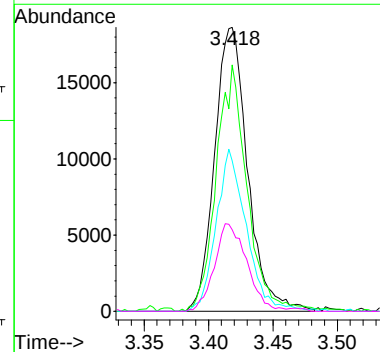
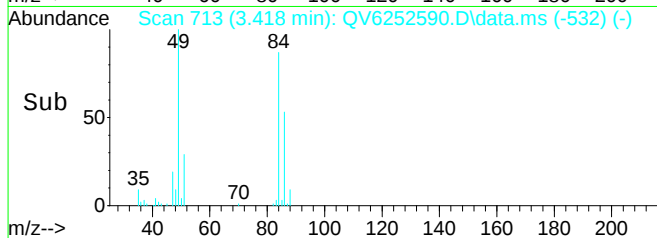
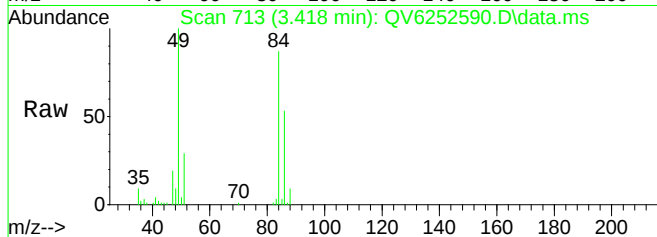
#17
Methyl Acetate
Concen: 2.80 ppb
RT: 3.285 min Scan# 665
Delta R.T. -0.000 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

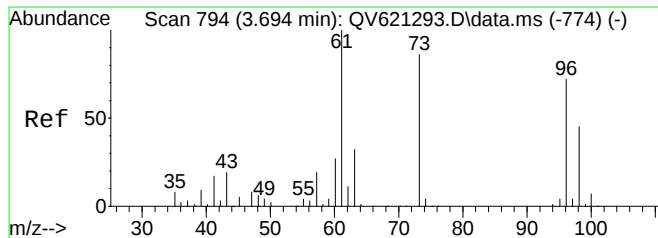
Tgt Ion: 43 Resp: 8496
Ion Ratio Lower Upper
43 100
43 100.0 80.0 120.0
74 0.0 7.3 22.0#



#20
Methylene Chloride
Concen: 2.01 ppb
RT: 3.418 min Scan# 713
Delta R.T. 0.002 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

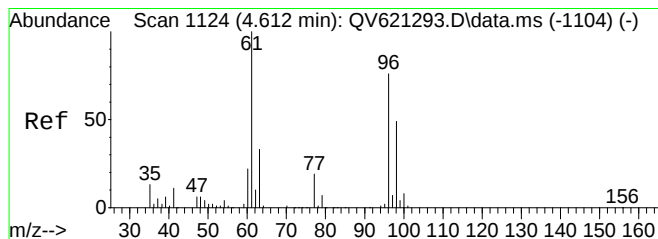
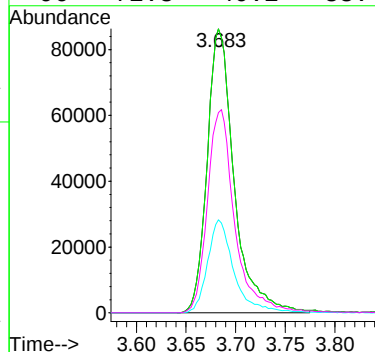
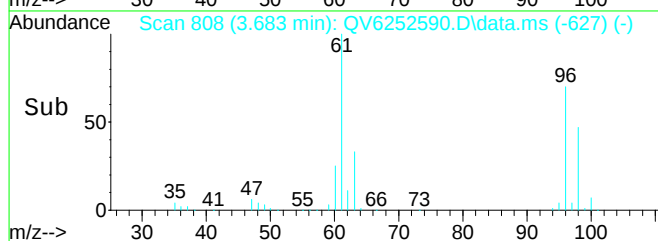
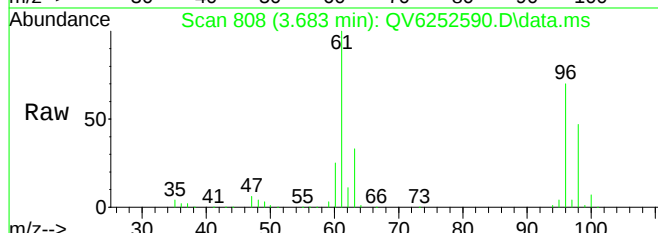
Tgt Ion: 49 Resp: 33264
Ion Ratio Lower Upper
49 100
84 81.2 35.0 72.8#
86 52.2 22.7 47.3#
51 30.3 19.2 39.8





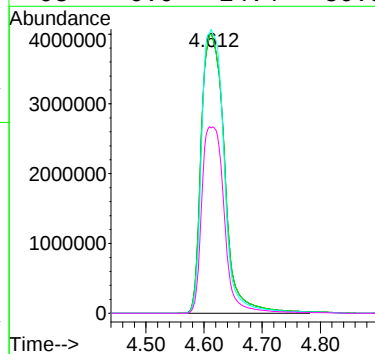
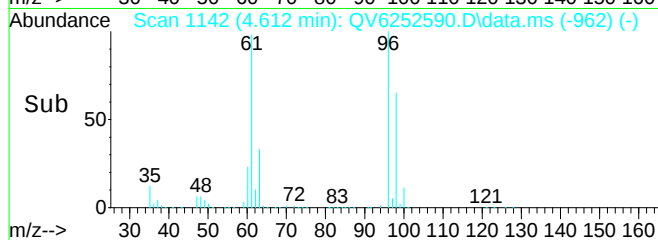
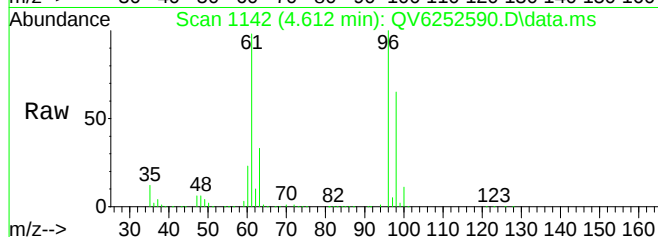
#22
trans-1,2-Dichloroethylene
Concen: 7.92 ppb
RT: 3.683 min Scan# 808
Delta R.T. 0.003 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

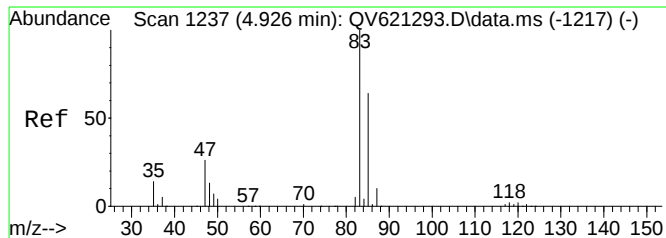
Tgt Ion: 61 Resp: 163804
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 32.0 20.9 43.3
96 72.3 40.2 83.4



#29
cis-1,2-Dichloroethylene
Concen: 502.92 ppb
RT: 4.612 min Scan# 1142
Delta R.T. 0.000 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

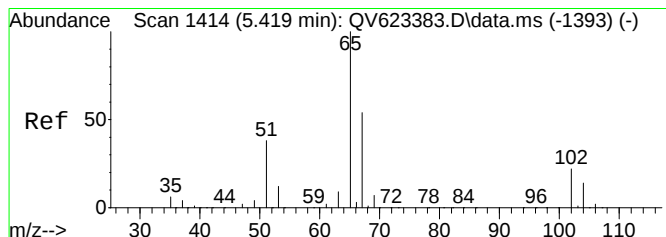
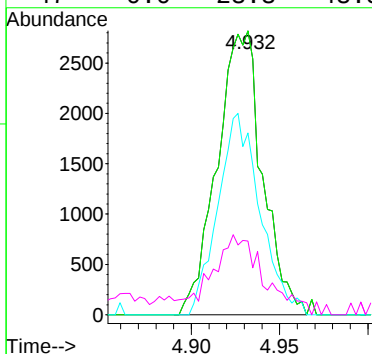
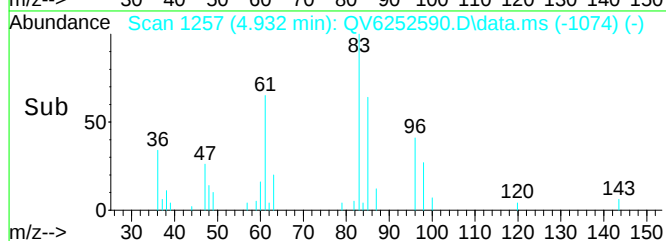
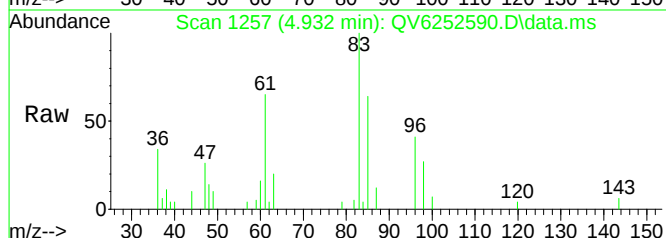
Tgt Ion: 61 Resp: 11140193
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 97.5 39.2 81.4#
98 0.0 24.4 50.8#





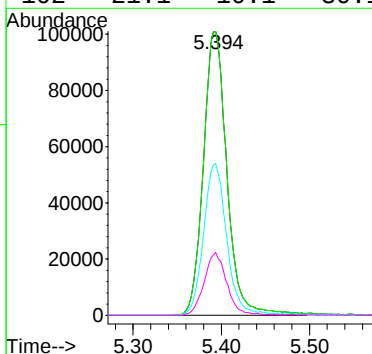
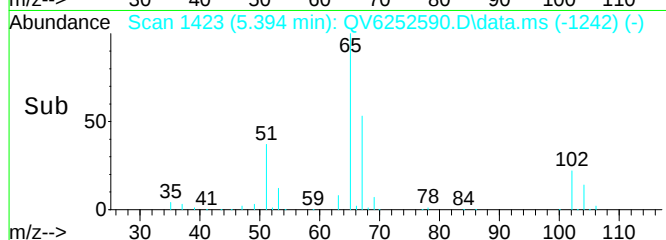
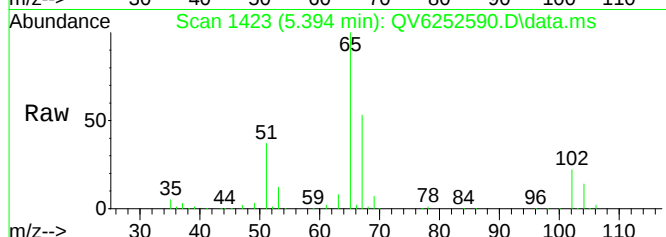
#34
Chloroform
Concen: 0.20 ppb
RT: 4.932 min Scan# 1257
Delta R.T. 0.008 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

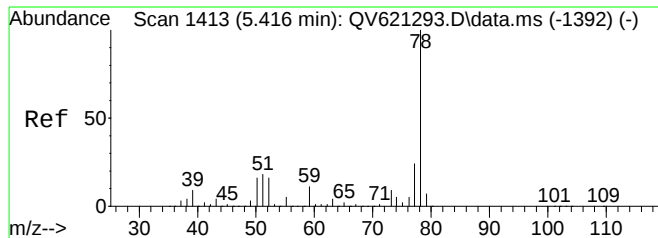
Tgt Ion: 83 Resp: 5038
Ion Ratio Lower Upper
83 100
83 100.0 65.0 135.0
85 66.1 0.0 0.0#
47 0.0 23.3 48.3#



#38
d4-1,2-Dichloroethane (Surr)
Concen: 10.78 ppb
RT: 5.394 min Scan# 1423
Delta R.T. 0.003 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

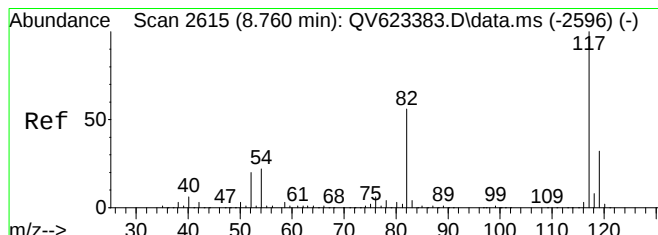
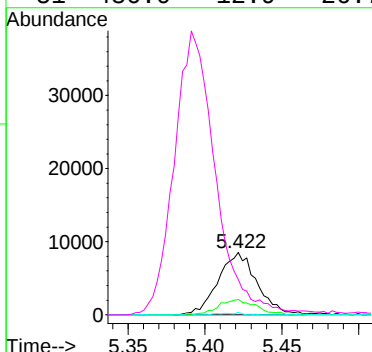
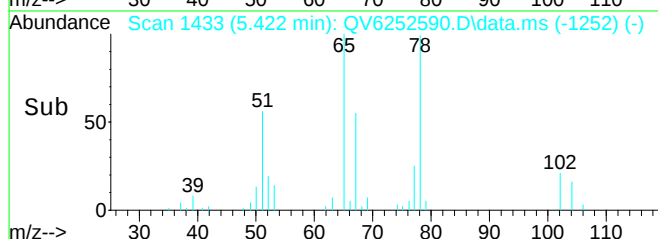
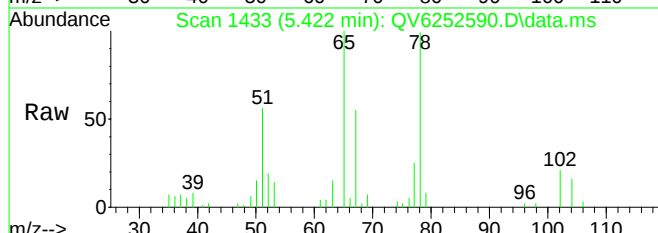
Tgt Ion: 65 Resp: 187814
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 52.3 34.0 70.6
102 21.1 10.1 30.1





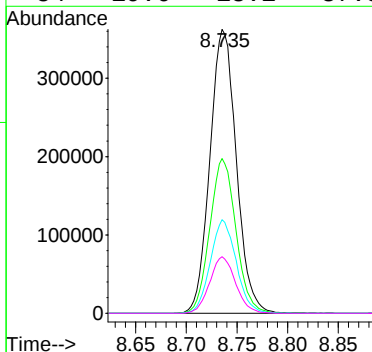
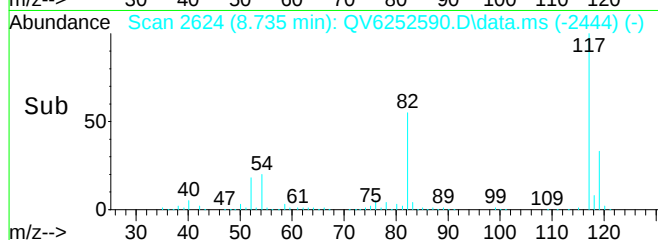
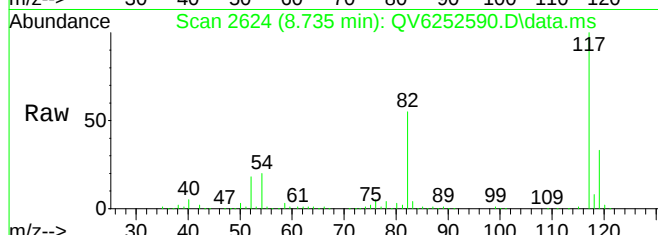
#42
Benzene
Concen: 0.27 ppb
RT: 5.422 min Scan# 1433
Delta R.T. 0.003 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

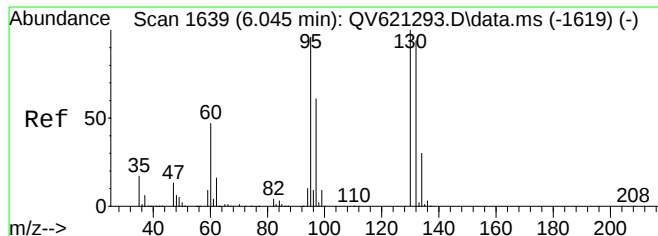
Tgt Ion: 78 Resp: 14982
Ion Ratio Lower Upper
78 100
77 23.6 15.7 32.5
62 0.0 22.9 47.5#
51 486.0 12.9 26.7#



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.735 min Scan# 2624
Delta R.T. 0.000 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

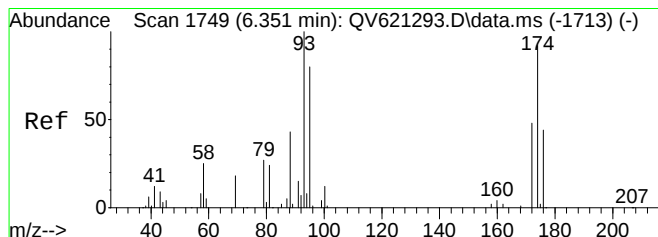
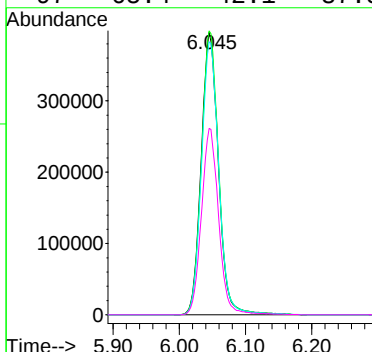
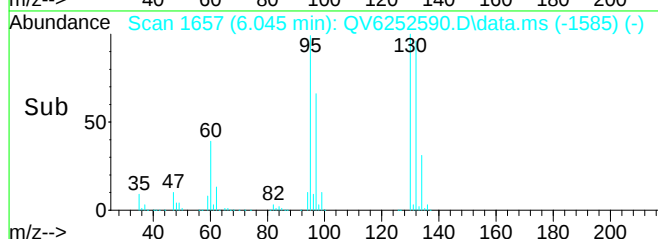
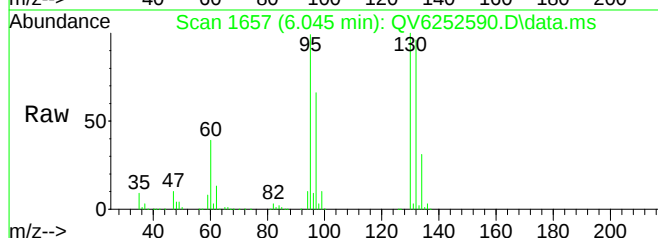
Tgt Ion: 117 Resp: 656855
Ion Ratio Lower Upper
117 100
82 53.9 34.5 71.7
119 32.4 20.9 43.3
54 19.6 18.1 37.5





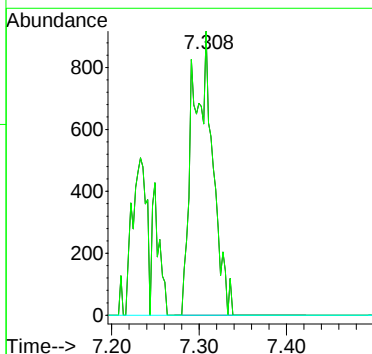
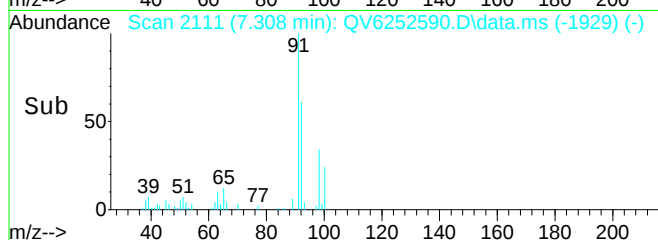
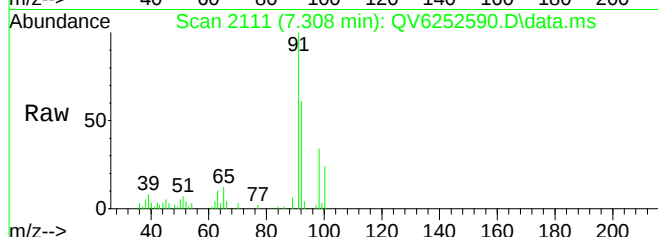
#45
Trichloroethylene
Concen: 47.74 ppb
RT: 6.045 min Scan# 1657
Delta R.T. -0.000 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

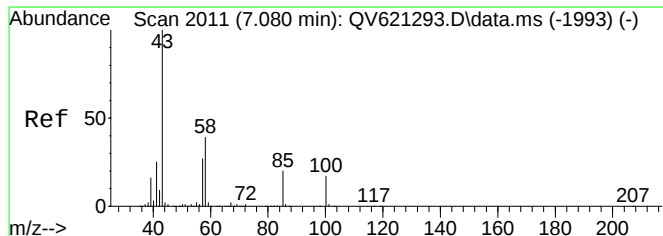
Tgt Ion: 95 Resp: 719320
Ion Ratio Lower Upper
95 100
130 100.7 70.0 145.4
132 96.8 69.6 144.6
97 65.4 42.1 87.3



#53
2-Chloroethyl vinyl ether
Concen: 0.34 ppb m
RT: 7.308 min Scan# 2111
Delta R.T. 0.006 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

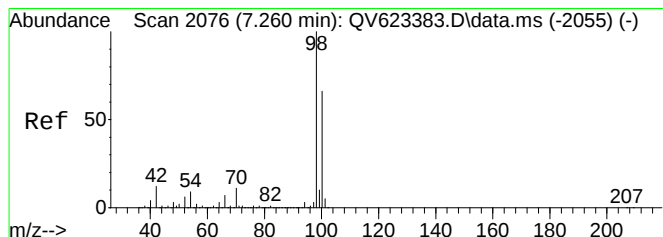
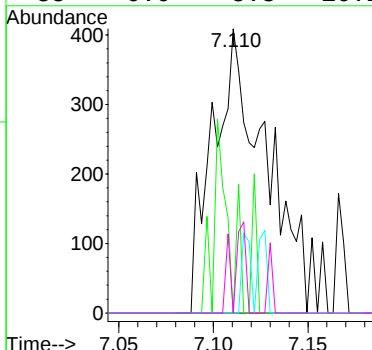
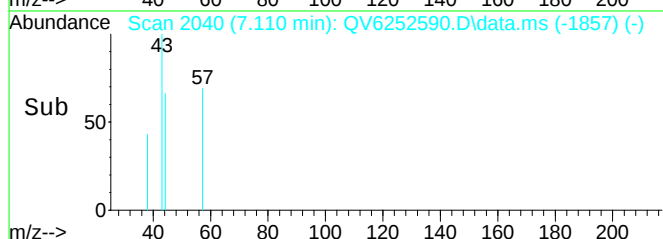
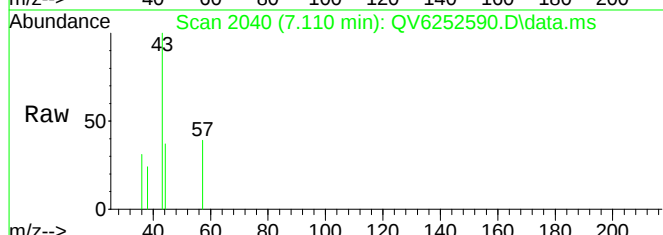
Tgt Ion: 63 Resp: 1464
Ion Ratio Lower Upper
63 100
63 33.3 60.5 125.7#
106 0.0 0.5 1.5#





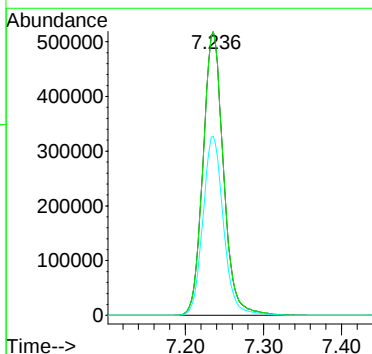
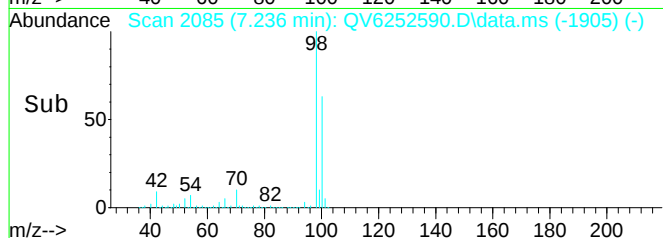
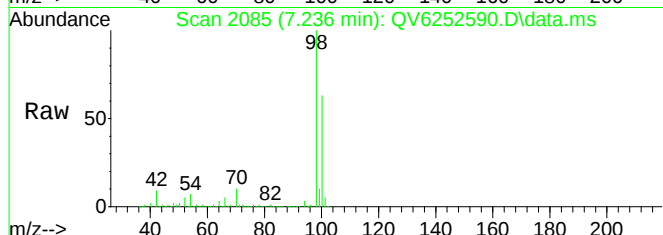
#55
4-Methyl-2-Pentanone
Concen: 0.24 ppb m
RT: 7.110 min Scan# 2040
Delta R.T. 0.008 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

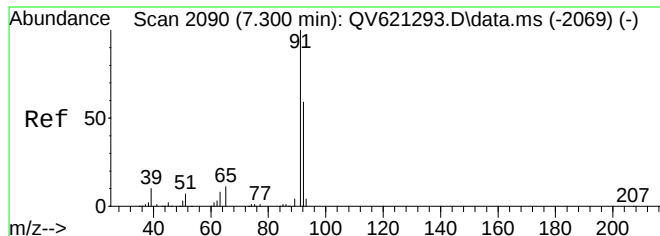
Tgt Ion: 43 Resp: 795
Ion Ratio Lower Upper
43 100
58 0.0 22.0 45.8#
100 0.0 5.5 16.4#
85 0.0 5.3 16.1#



#56
Toluene-d8 (SURR)
Concen: 10.29 ppb
RT: 7.236 min Scan# 2085
Delta R.T. -0.000 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

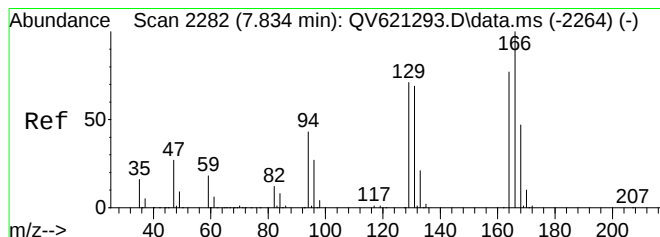
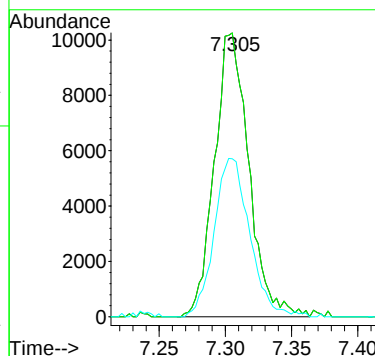
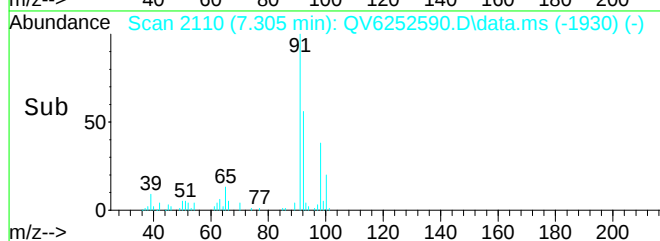
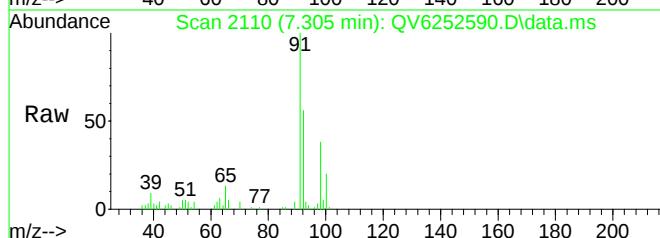
Tgt Ion: 98 Resp: 940723
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.5 44.2 91.8





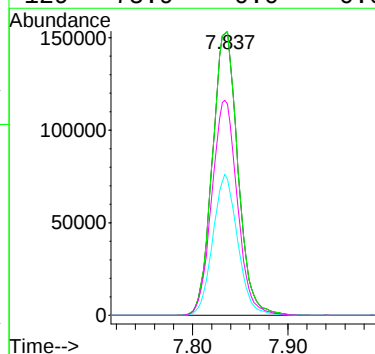
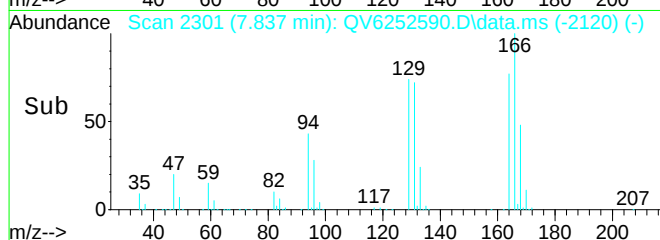
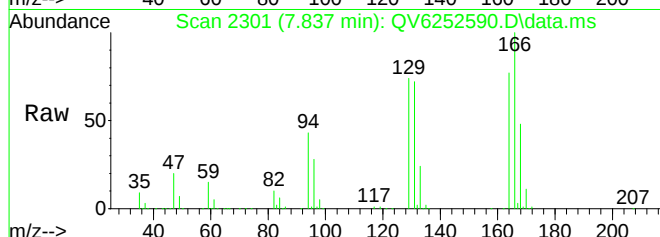
#57
Toluene
Concen: 0.33 ppb
RT: 7.305 min Scan# 2110
Delta R.T. 0.000 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

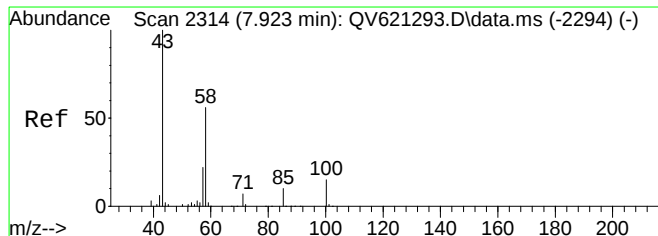
Tgt Ion: 91 Resp: 18539
Ion Ratio Lower Upper
91 100
91 100.0 65.0 135.0
92 57.2 37.2 77.4



#63
Tetrachloroethylene
Concen: 18.31 ppb
RT: 7.837 min Scan# 2301
Delta R.T. 0.003 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

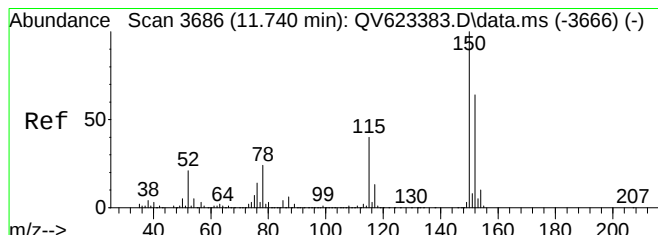
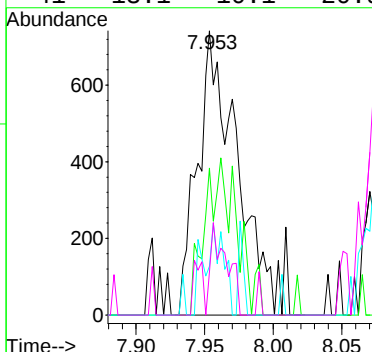
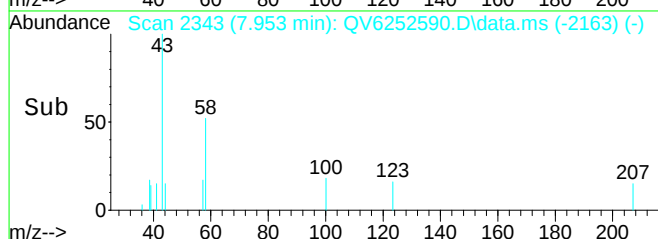
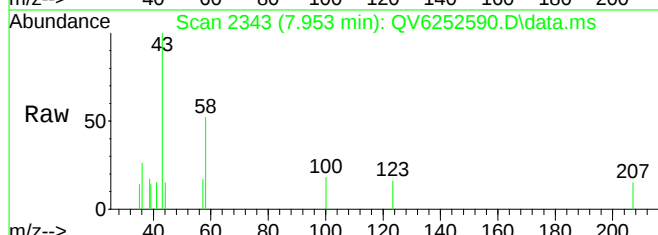
Tgt Ion: 166 Resp: 285087
Ion Ratio Lower Upper
166 100
166 100.0 65.0 135.0
168 48.3 31.7 65.7
129 75.9 0.0 0.0#





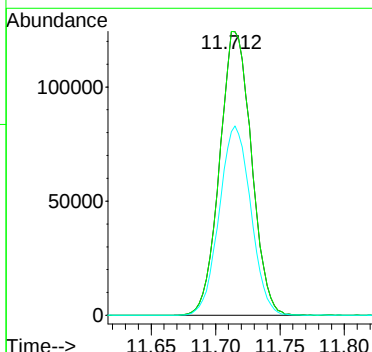
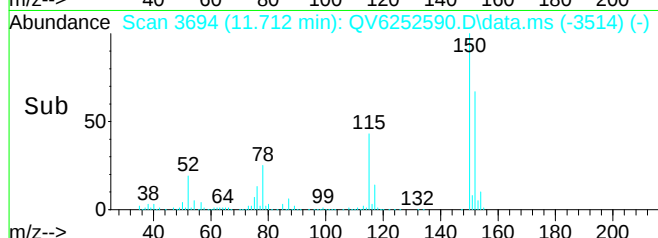
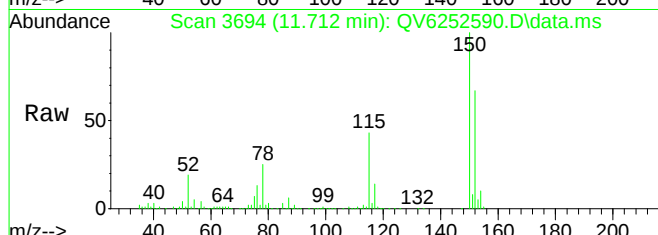
#64
2-Hexanone
Concen: 0.69 ppb m
RT: 7.953 min Scan# 2343
Delta R.T. -0.001 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

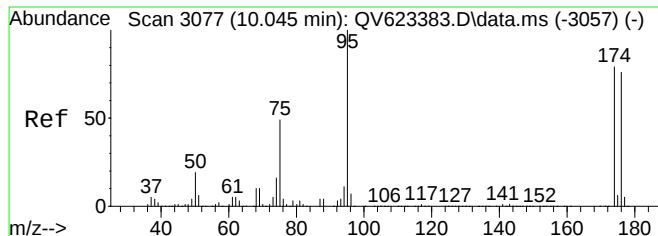
Tgt Ion: 43 Resp: 1532
Ion Ratio Lower Upper
43 100
58 15.0 31.5 65.3#
57 10.6 10.4 21.6
41 13.1 10.1 20.9



#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.712 min Scan# 3694
Delta R.T. 0.000 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

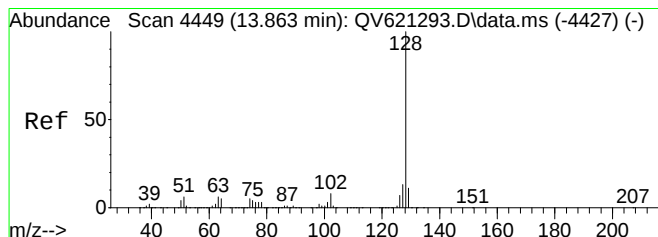
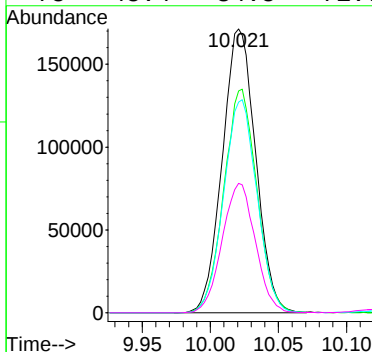
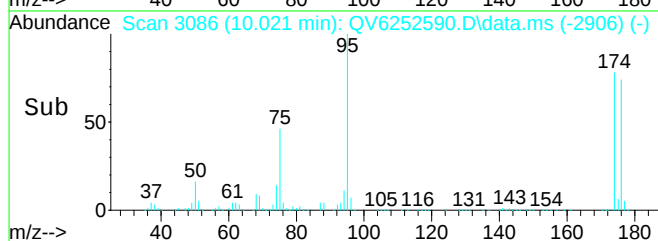
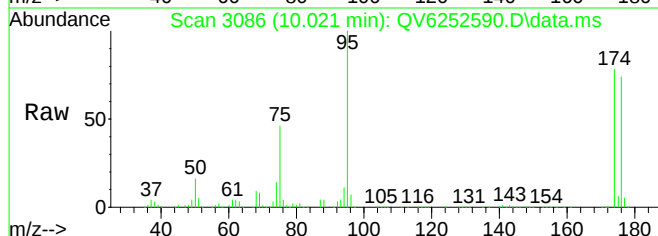
Tgt Ion: 152 Resp: 213408
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 66.3 29.8 89.3





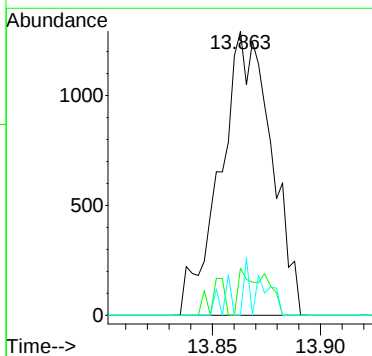
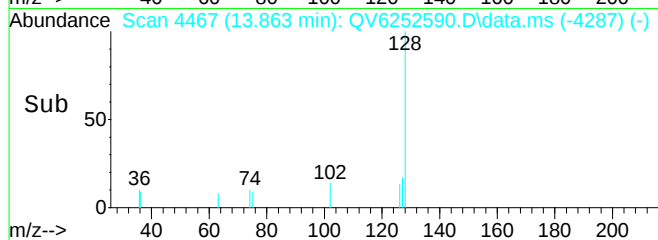
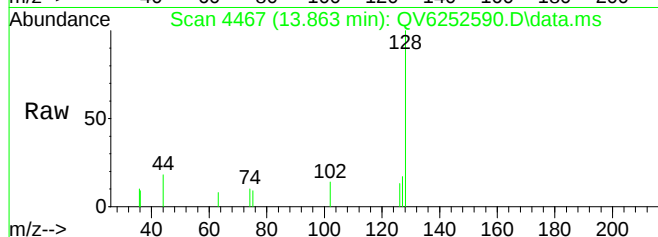
#79
p-Bromofluorobenzene (SURRE)
Concen: 9.59 ppb
RT: 10.021 min Scan# 3086
Delta R.T. -0.000 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.9	62.5	129.9
176	75.2	60.7	126.1
75	45.4	34.5	71.7



#109
Naphthalene
Concen: 0.18 ppb
RT: 13.863 min Scan# 4467
Delta R.T. -0.000 min
Lab File: QV6252590.D
Acq: 19 Oct 2023 4:12 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
127	5.4	8.9	18.5#
129	2.1	7.3	15.3#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW01_D_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-03RE1 File ID: QV6252620.D
 Sampled: 10/17/23 14:20 Prepared: 10/19/23 06:17 Analyzed: 10/20/23 04:30
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31371 Sequence: S3J2002 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	10	705	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.7	107	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	162403	5.7	178352	5.7	
ISTD: Chlorobenzene-d5	593175	8.738	674501	8.735	
ISTD: 1,2-Dichlorobenzene-d4	177217	11.715	220537	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252620.D
 Acq On : 20 Oct 2023 4:30 am
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-03RE1
 Misc : QBQV6101923B 8260 C AF 5mL/50mL
 ALS Vial : 47 Sample Multiplier: 10

Quant Time: Oct 20 12:47:19 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

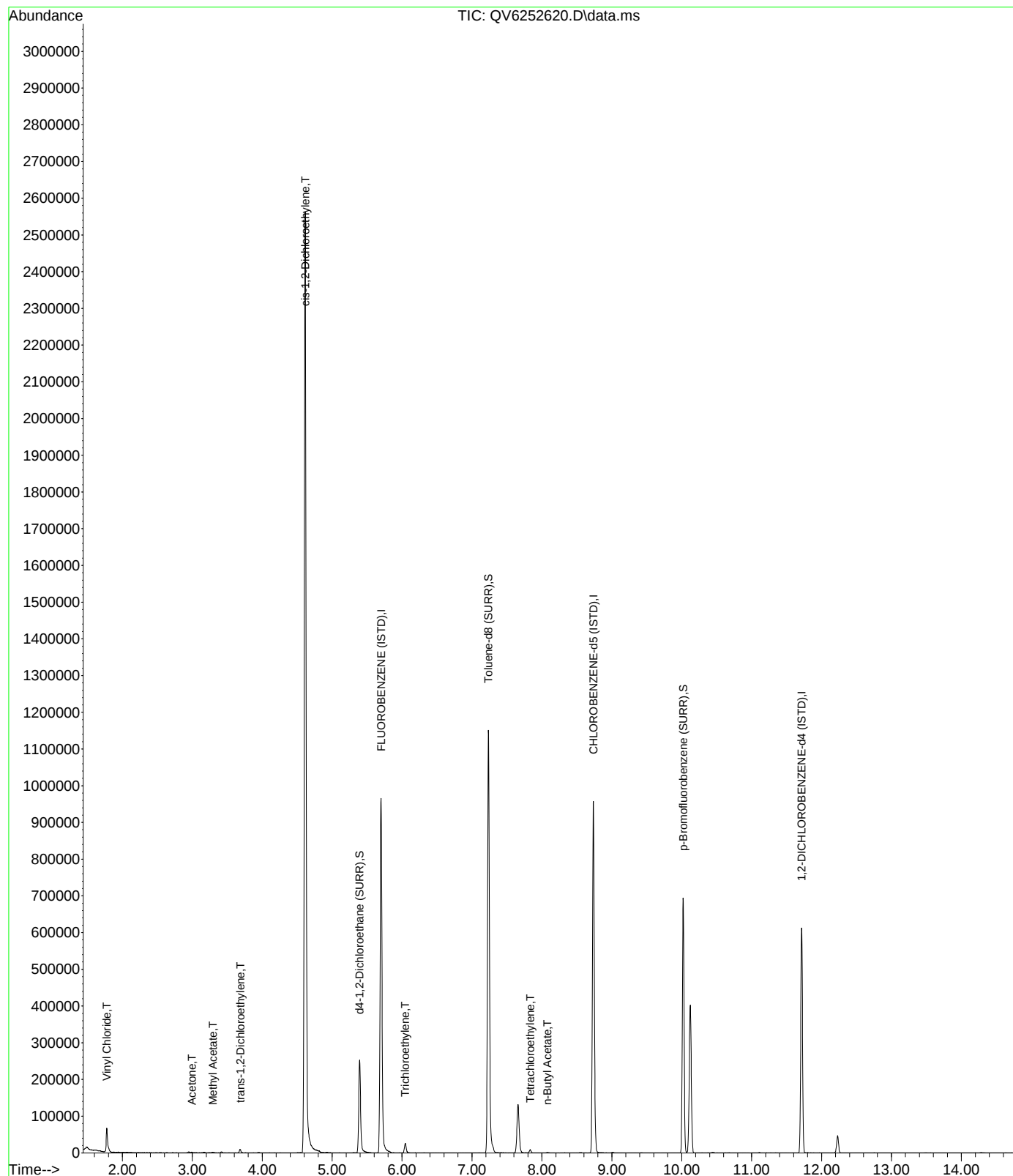
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

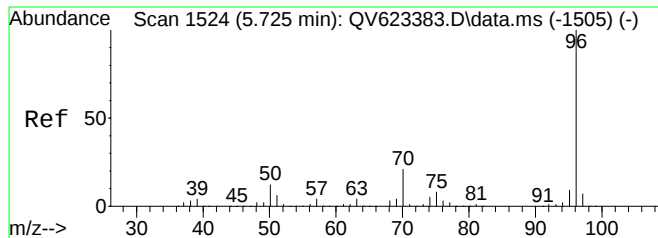
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	162403	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.738	117	593175	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.715	152	177217	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	169931	10.73	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	107.30%	
56) Toluene-d8 (SURR)	7.235	98	856917	10.38	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	103.80%	
79) p-Bromofluorobenzene (...)	10.020	95	263590	10.42	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	104.20%	
Target Compounds						
5) Vinyl Chloride	1.777	62	56812	4.32	ppb	# 47
14) Acetone	2.992	43	2398	2.06	ppb	99
17) Methyl Acetate	3.293	43	2154	0.78	ppb	99
22) trans-1,2-Dichloroethy...	3.685	61	4703	0.25	ppb	# 93
29) cis-1,2-Dichloroethylene	4.615	61	1419623	70.52	ppb	# 89
45) Trichloroethylene	6.042	95	8652	0.64	ppb	90
63) Tetrachloroethylene	7.831	166	2530	0.18	ppb	# 100
65) n-Butyl Acetate	8.078	56	510m	0.20	ppb	

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252620.D
Acq On : 20 Oct 2023 4:30 am
InstName : QVOA6
Operator : JTG
Sample : 23J1154-03RE1
Misc : QBQV6101923B 8260 C AF 5mL/50mL
ALS Vial : 47 Sample Multiplier: 10

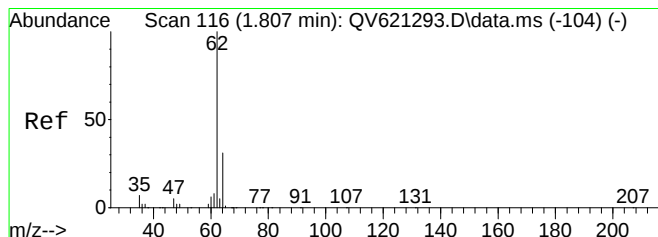
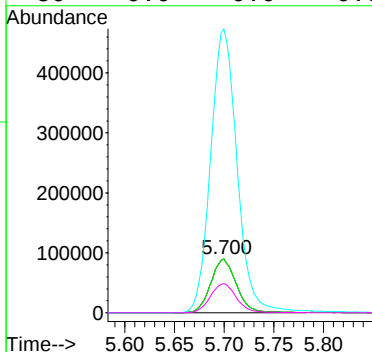
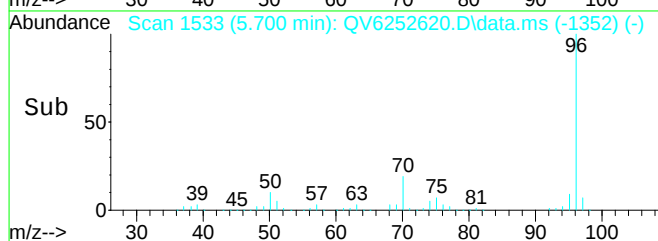
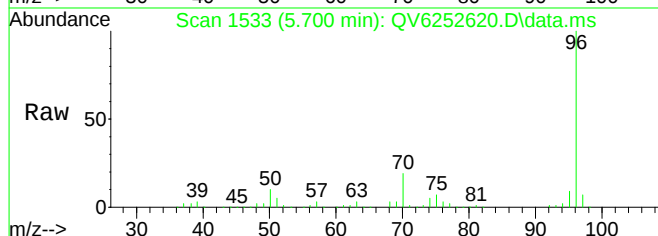
Quant Time: Oct 20 12:47:19 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





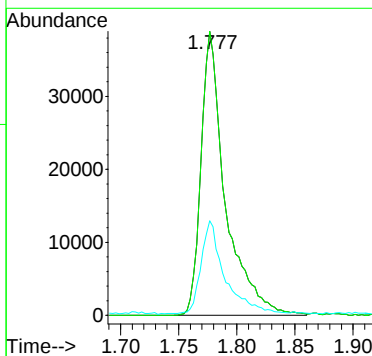
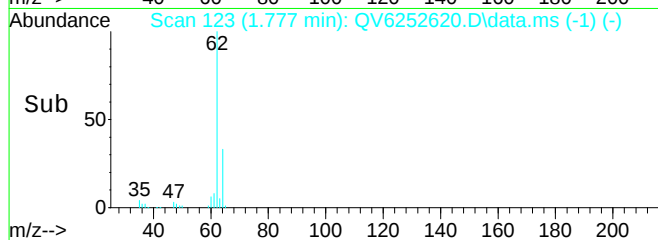
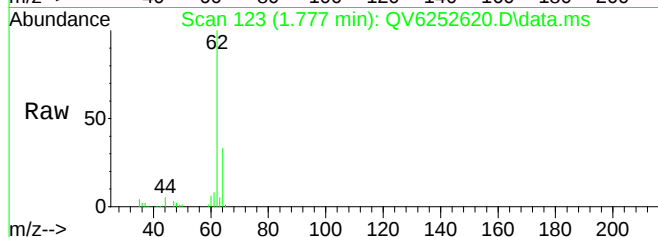
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252620.D
 Acq: 20 Oct 2023 4:30 am

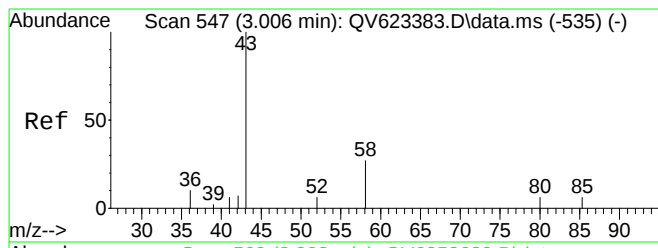
Tgt Ion: 70 Resp: 162403
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 544.6 341.1 708.3
 50 0.0 0.0 0.0



#5
 Vinyl Chloride
 Concen: 4.32 ppb
 RT: 1.777 min Scan# 123
 Delta R.T. 0.003 min
 Lab File: QV6252620.D
 Acq: 20 Oct 2023 4:30 am

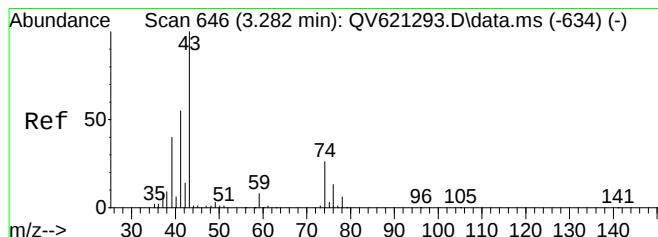
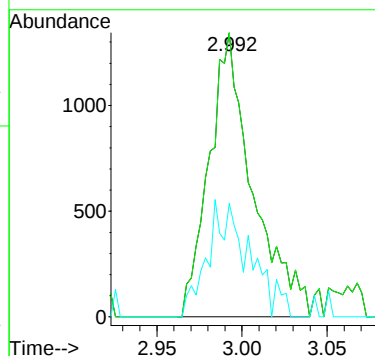
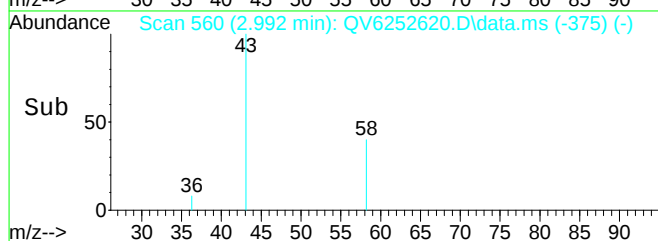
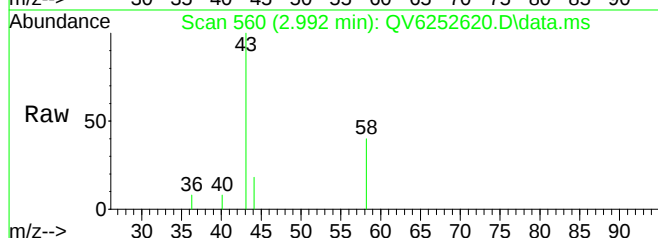
Tgt Ion: 62 Resp: 56812
 Ion Ratio Lower Upper
 62 100
 62 100.0 36.0 74.8#
 64 31.4 12.5 25.9#





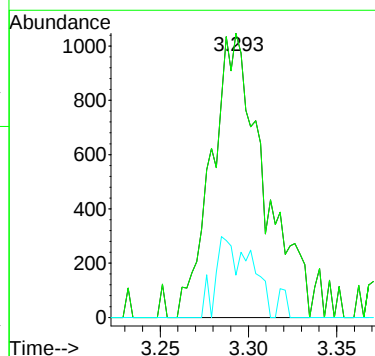
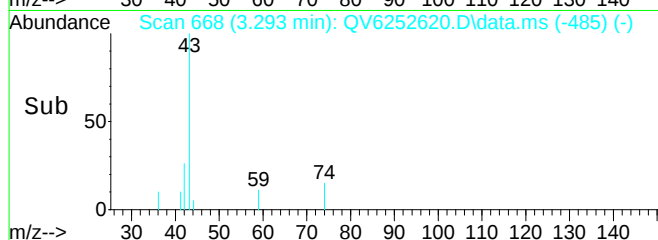
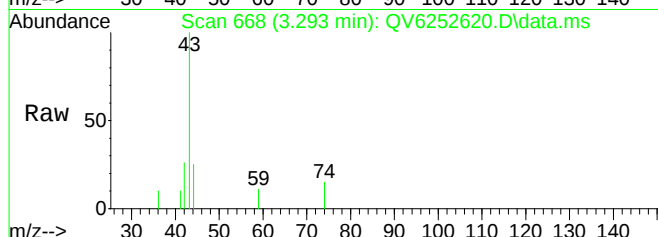
#14
Acetone
Concen: 2.06 ppb
RT: 2.992 min Scan# 560
Delta R.T. 0.013 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

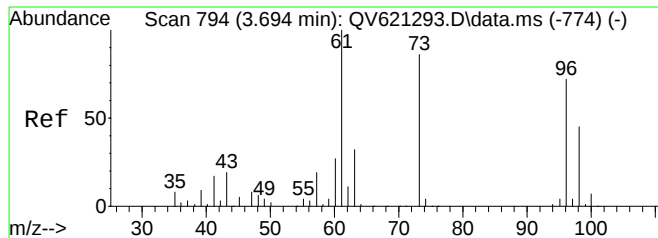
Tgt Ion: 43 Resp: 2398
Ion Ratio Lower Upper
43 100
43 100.0 80.0 120.0
58 16.7 6.0 18.1



#17
Methyl Acetate
Concen: 0.78 ppb
RT: 3.293 min Scan# 668
Delta R.T. 0.008 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

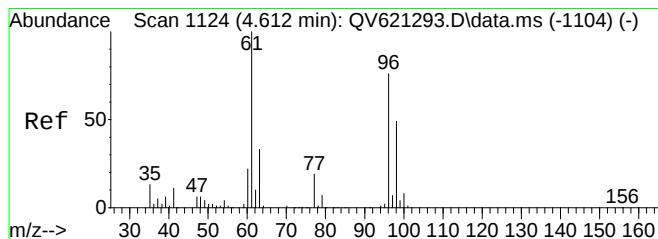
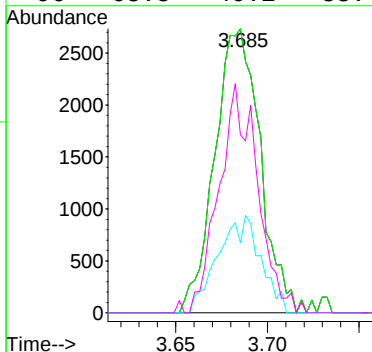
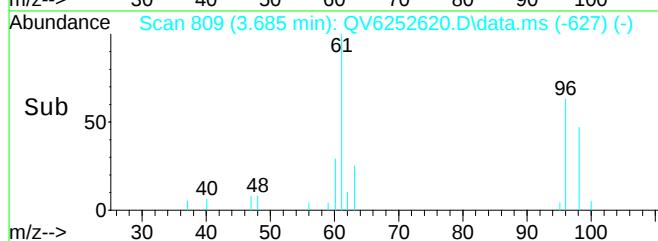
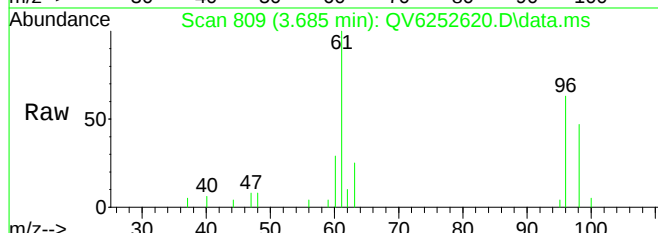
Tgt Ion: 43 Resp: 2154
Ion Ratio Lower Upper
43 100
43 100.0 80.0 120.0
74 10.3 7.3 22.0





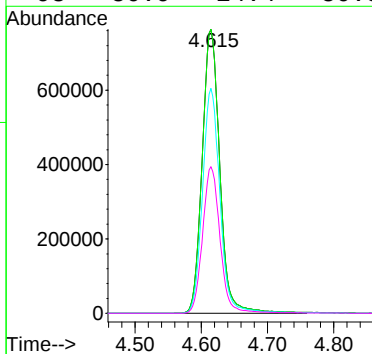
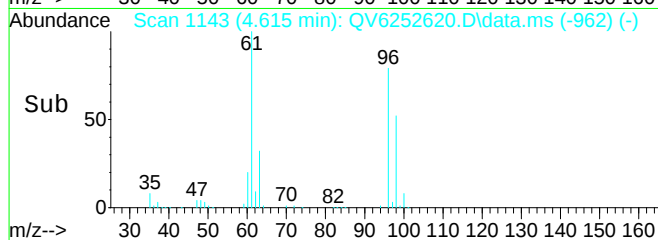
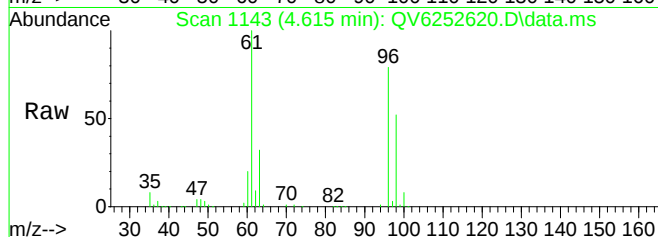
#22
trans-1,2-Dichloroethylene
Concen: 0.25 ppb
RT: 3.685 min Scan# 809
Delta R.T. 0.005 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

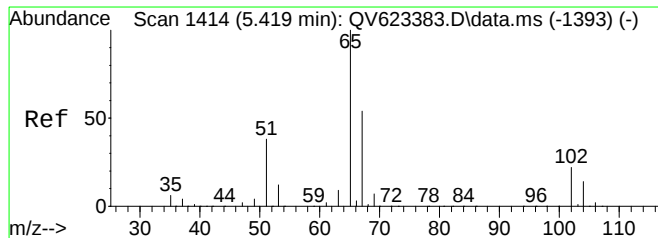
Tgt Ion: 61 Resp: 4703
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 18.2 20.9 43.3#
96 68.5 40.2 83.4



#29
cis-1,2-Dichloroethylene
Concen: 70.52 ppb
RT: 4.615 min Scan# 1143
Delta R.T. 0.003 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

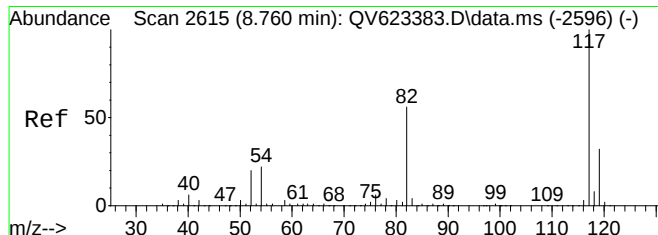
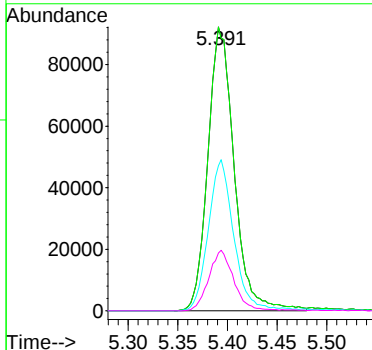
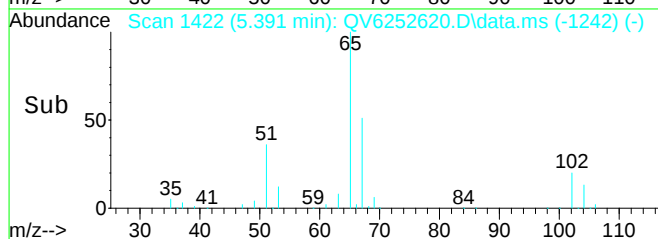
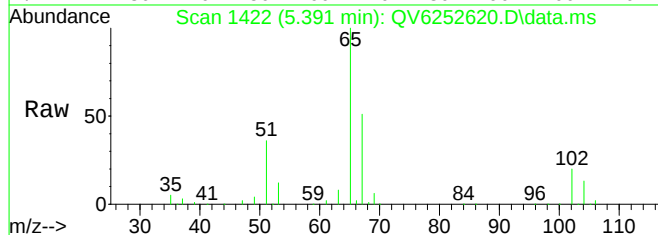
Tgt Ion: 61 Resp: 1419623
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 78.3 39.2 81.4
98 50.9 24.4 50.8#





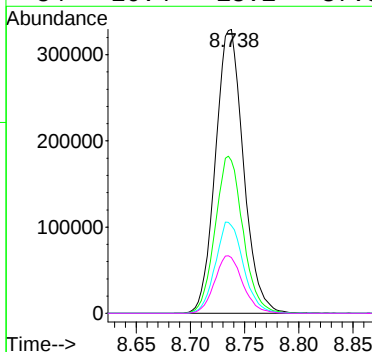
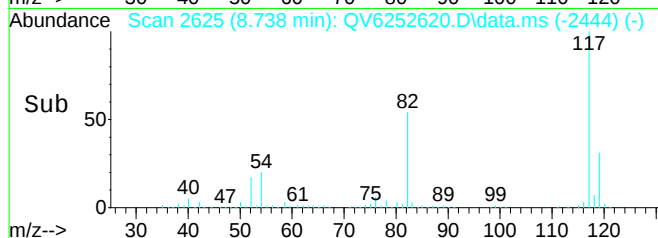
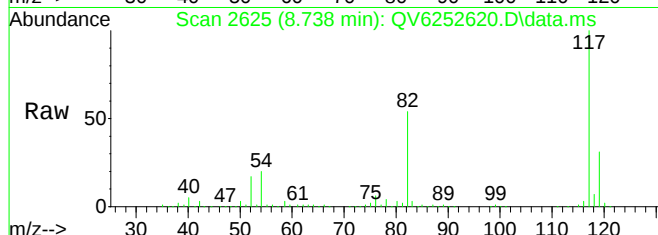
#38
d4-1,2-Dichloroethane (SURRE)
Concen: 10.73 ppb
RT: 5.391 min Scan# 1422
Delta R.T. -0.000 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

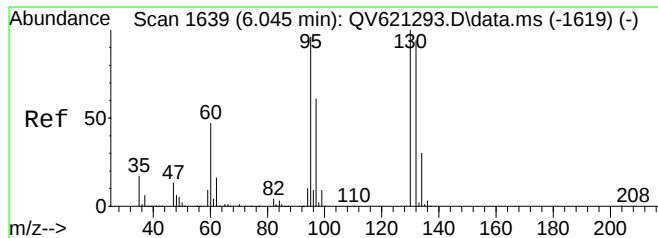
Tgt Ion: 65 Resp: 169931
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 51.0 34.0 70.6
102 20.2 10.1 30.1



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.738 min Scan# 2625
Delta R.T. 0.003 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

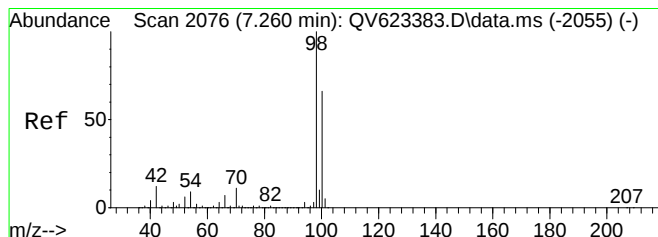
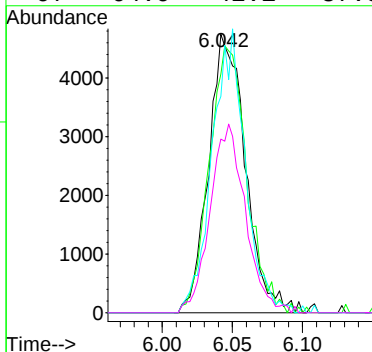
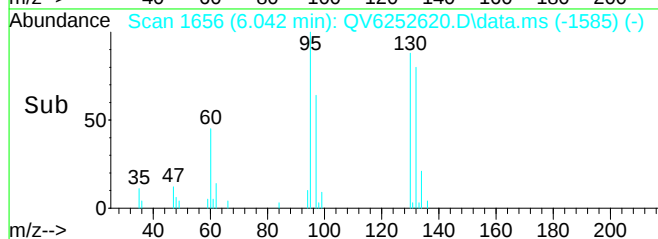
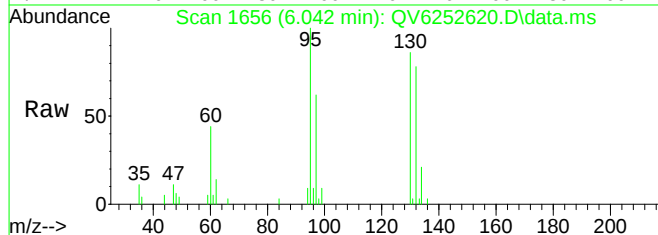
Tgt Ion: 117 Resp: 593175
Ion Ratio Lower Upper
117 100
82 54.9 34.5 71.7
119 32.0 20.9 43.3
54 20.4 18.1 37.5





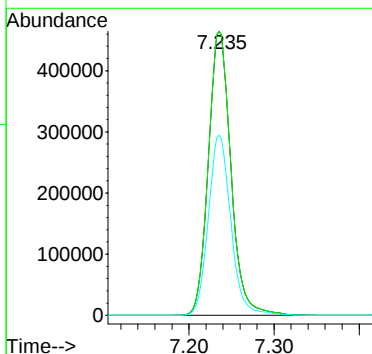
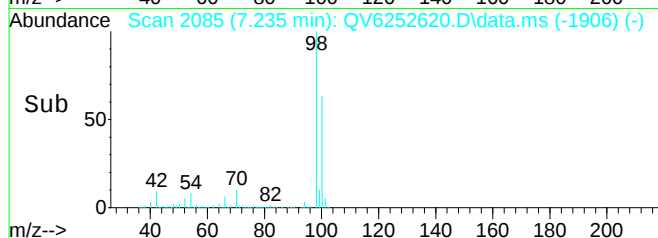
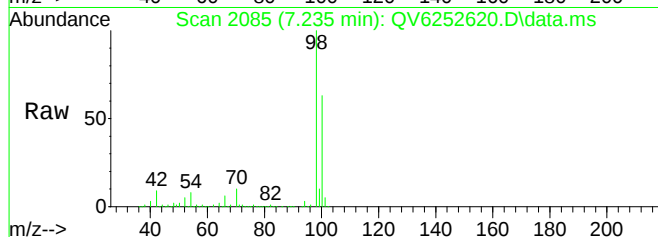
#45
Trichloroethylene
Concen: 0.64 ppb
RT: 6.042 min Scan# 1656
Delta R.T. -0.003 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

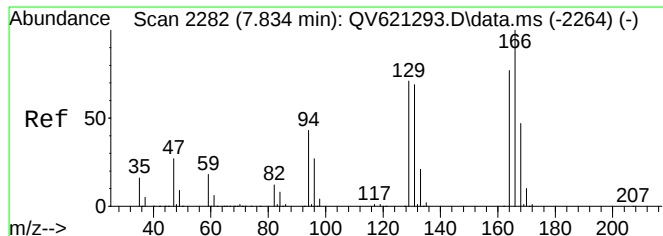
Tgt Ion: 95 Resp: 8652
Ion Ratio Lower Upper
95 100
130 97.1 70.0 145.4
132 91.6 69.6 144.6
97 64.9 42.1 87.3



#56
Toluene-d8 (SURRE)
Concen: 10.38 ppb
RT: 7.235 min Scan# 2085
Delta R.T. -0.001 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

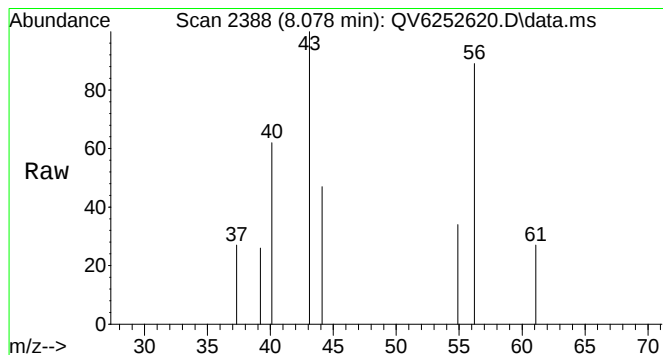
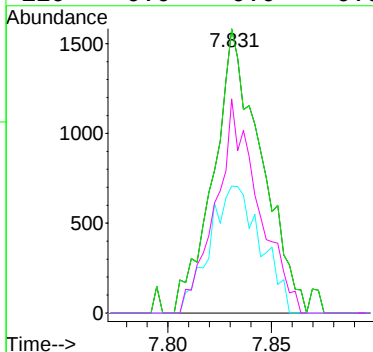
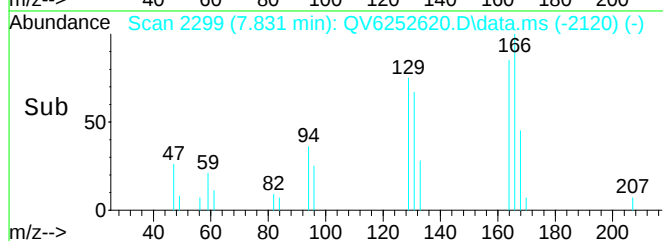
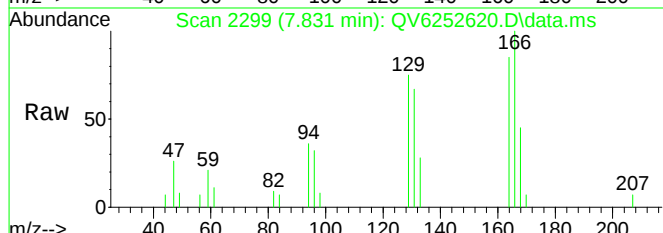
Tgt Ion: 98 Resp: 856917
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.2 44.2 91.8





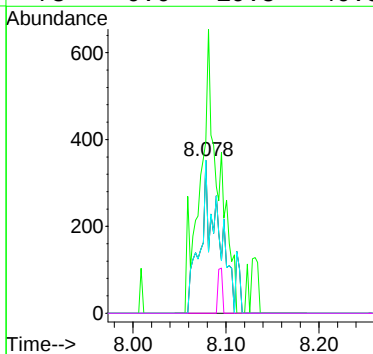
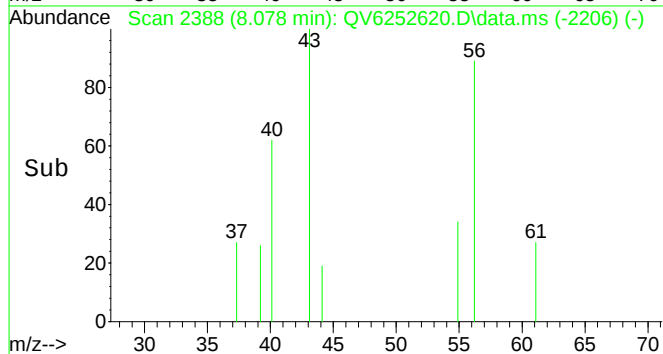
#63
Tetrachloroethylene
Concen: 0.18 ppb
RT: 7.831 min Scan# 2299
Delta R.T. -0.003 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

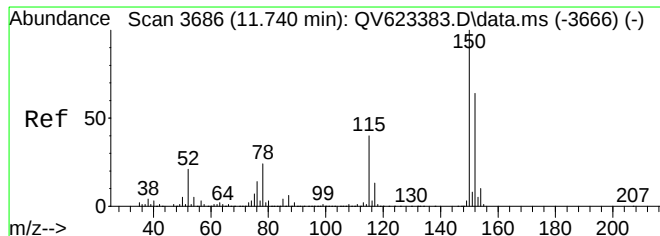
Tgt Ion: 166 Resp: 2530
Ion Ratio Lower Upper
166 100
166 100.0 65.0 135.0
168 47.9 31.7 65.7
129 0.0 0.0 0.0



#65
n-Butyl Acetate
Concen: 0.20 ppb m
RT: 8.078 min Scan# 2388
Delta R.T. 0.005 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

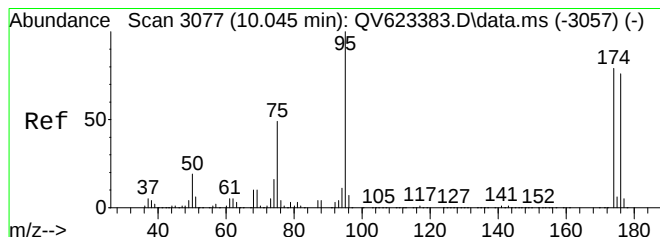
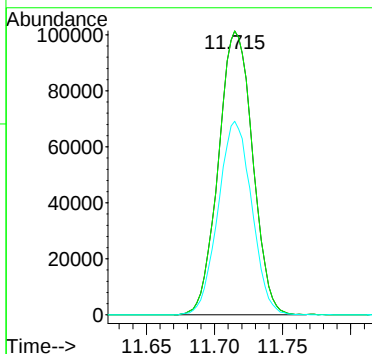
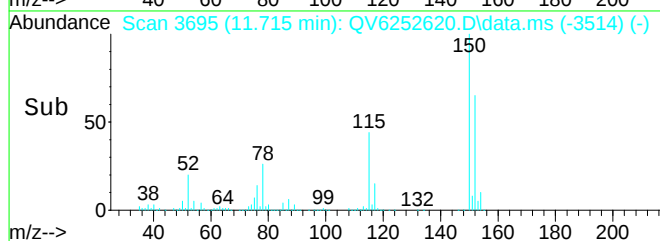
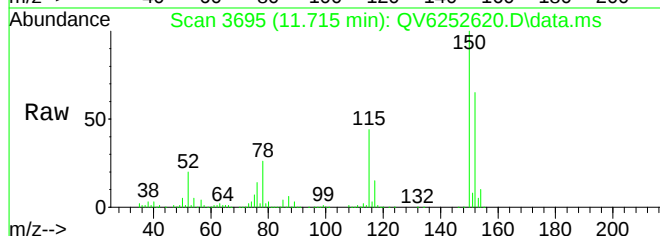
Tgt Ion: 56 Resp: 510
Ion Ratio Lower Upper
56 100
43 0.0 65.0 135.0#
56 55.7 45.5 94.5
73 0.0 19.5 40.5#





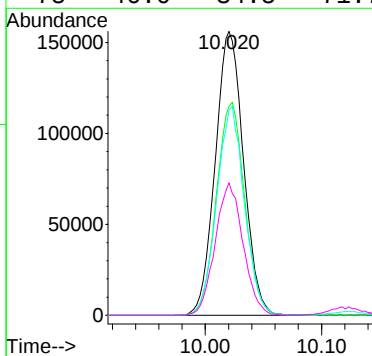
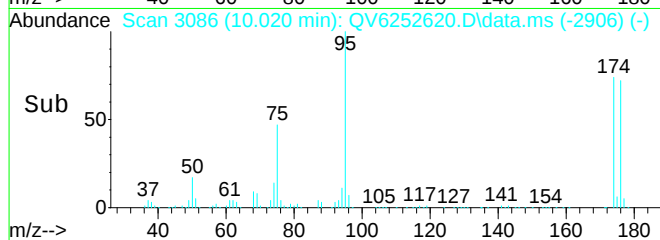
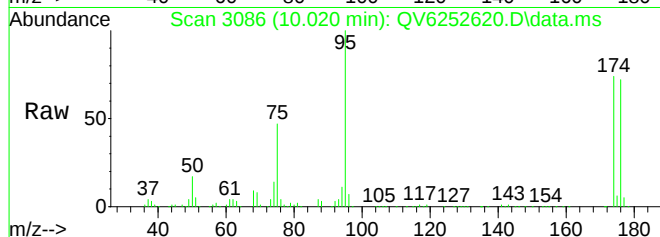
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.715 min Scan# 3695
Delta R.T. 0.003 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

Tgt Ion: 152 Resp: 177217
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 67.0 29.8 89.3



#79
p-Bromofluorobenzene (SURR)
Concen: 10.42 ppb
RT: 10.020 min Scan# 3086
Delta R.T. -0.001 min
Lab File: QV6252620.D
Acq: 20 Oct 2023 4:30 am

Tgt Ion: 95 Resp: 263590
Ion Ratio Lower Upper
95 100
174 75.3 62.5 129.9
176 72.3 60.7 126.1
75 46.0 34.5 71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW02_D_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-04 File ID: QV6252592.D
 Sampled: 10/17/23 11:20 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 17:01
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.16	
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	2.07	
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PMW02_D_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-04 File ID: QV6252592.D
 Sampled: 10/17/23 11:20 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 17:01
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	0.620	J
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.6	106	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.68	96.8	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	172402	5.7	185237	5.697	
ISTD: Chlorobenzene-d5	646697	8.735	699711	8.732	
ISTD: 1,2-Dichlorobenzene-d4	207700	11.718	219846	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252592.D
 Acq On : 19 Oct 2023 5:01 pm
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-04
 Misc : QBQV6101923A 8260 B AF
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 19 22:58:22 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

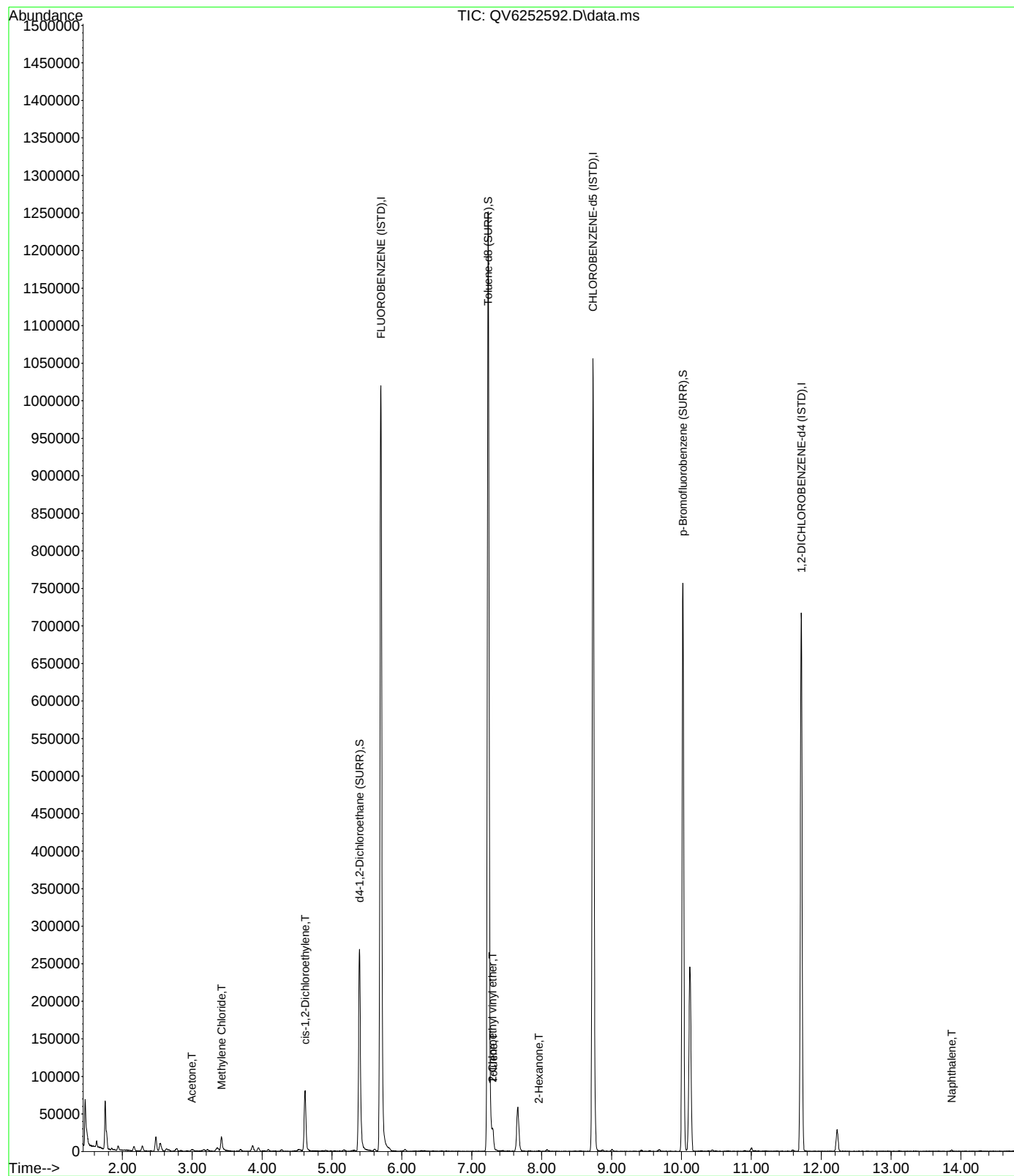
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

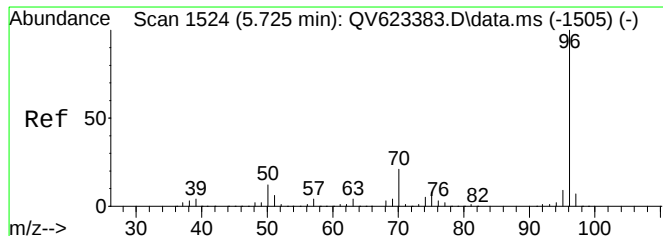
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	172402	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	646697	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.718	152	207700	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	179055	10.65	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	106.50%	
56) Toluene-d8 (SURR)	7.236	98	925775	10.29	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.90%	
79) p-Bromofluorobenzene (...)	10.021	95	287176	9.68	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	96.80%	
Target Compounds						
						Qvalue
14) Acetone	2.993	43	2668m	2.16	ppb	
20) Methylene Chloride	3.418	49	9877	0.62	ppb	# 74
29) cis-1,2-Dichloroethylene	4.615	61	44246	2.07	ppb	# 88
53) 2-Chloroethyl vinyl ether	7.297	63	1010	0.24	ppb	# 93
57) Toluene	7.305	91	12985	0.23	ppb	# 99
64) 2-Hexanone	7.959	43	380	0.17	ppb	# 68
109) Naphthalene	13.868	128	1751	0.16	ppb	# 76

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252592.D
Acq On : 19 Oct 2023 5:01 pm
InstName : QVOA6
Operator : JTG
Sample : 23J1154-04
Misc : QBQV6101923A 8260 B AF
ALS Vial : 19 Sample Multiplier: 1

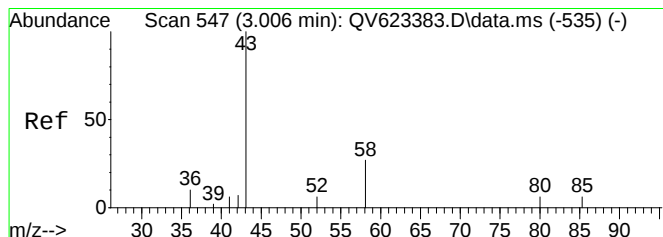
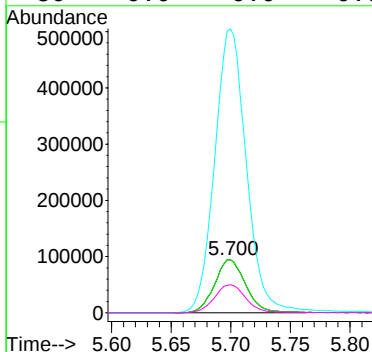
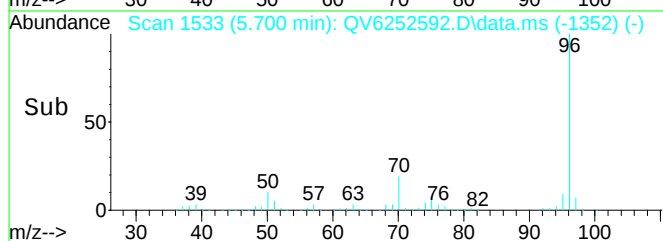
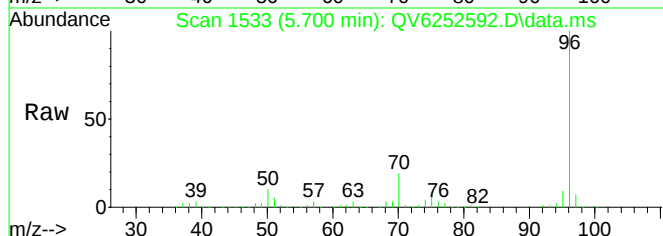
Quant Time: Oct 19 22:58:22 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





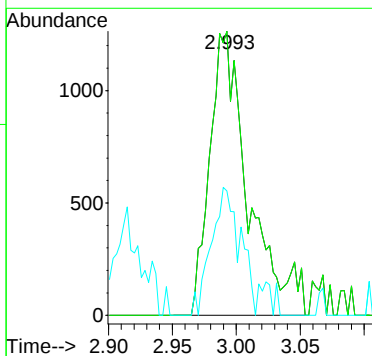
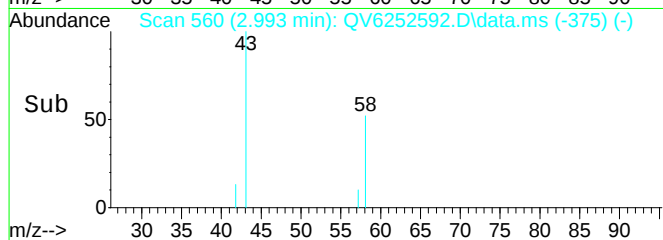
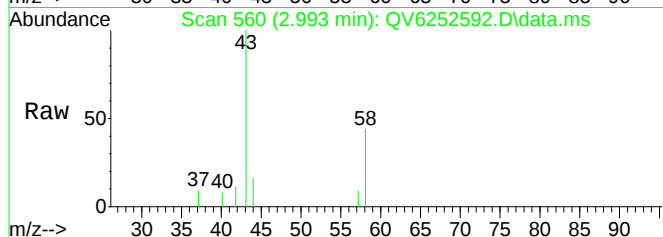
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252592.D
 Acq: 19 Oct 2023 5:01 pm

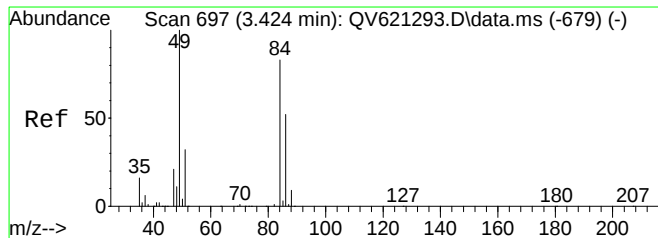
Tgt Ion: 70 Resp: 172402
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 546.4 341.1 708.3
 50 0.0 0.0 0.0



#14
 Acetone
 Concen: 2.16 ppb m
 RT: 2.993 min Scan# 560
 Delta R.T. 0.014 min
 Lab File: QV6252592.D
 Acq: 19 Oct 2023 5:01 pm

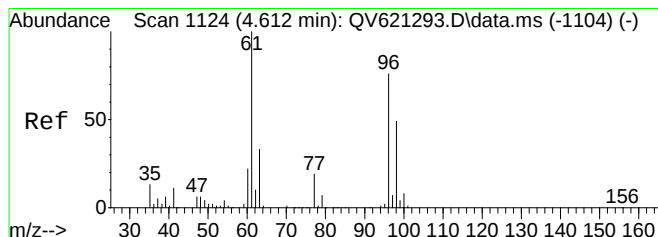
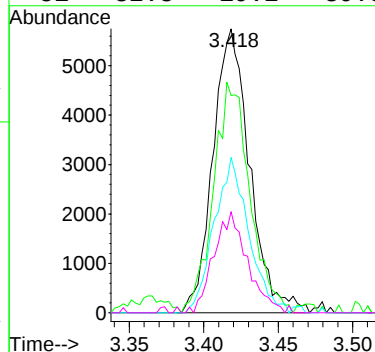
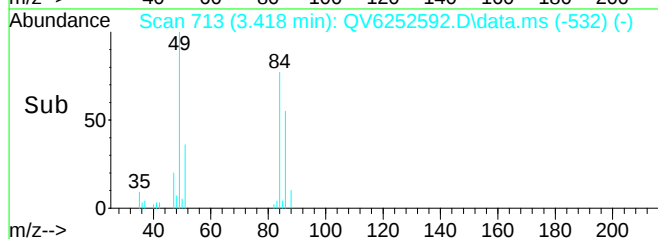
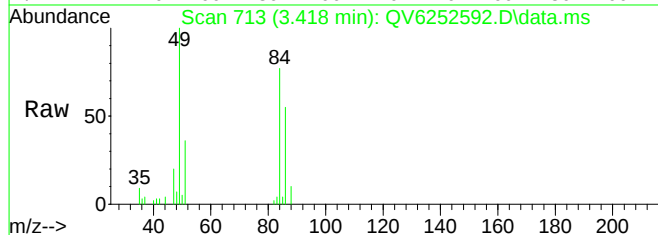
Tgt Ion: 43 Resp: 2668
 Ion Ratio Lower Upper
 43 100
 43 10.2 80.0 120.0#
 58 1.4 6.0 18.1#





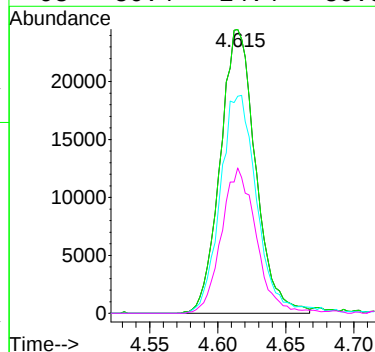
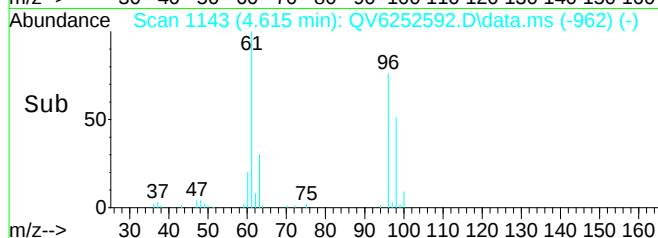
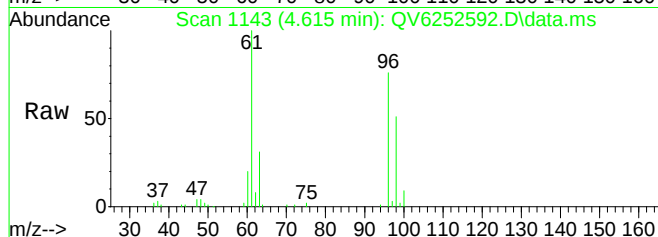
#20
Methylene Chloride
Concen: 0.62 ppb
RT: 3.418 min Scan# 713
Delta R.T. 0.002 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

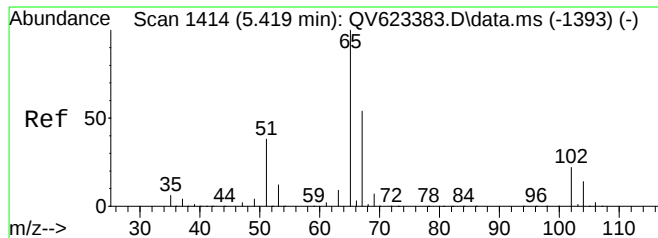
Tgt Ion: 49 Resp: 9877
Ion Ratio Lower Upper
49 100
84 80.3 35.0 72.8#
86 51.3 22.7 47.3#
51 32.3 19.2 39.8



#29
cis-1,2-Dichloroethylene
Concen: 2.07 ppb
RT: 4.615 min Scan# 1143
Delta R.T. 0.003 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

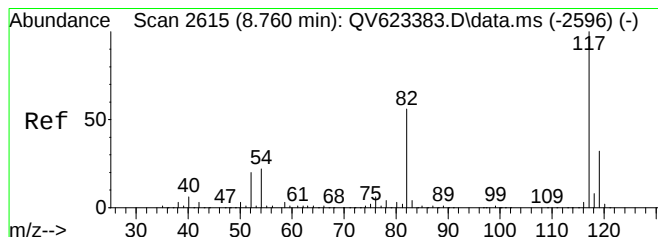
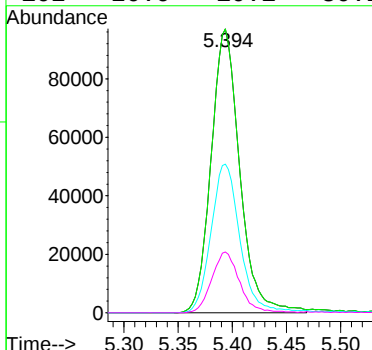
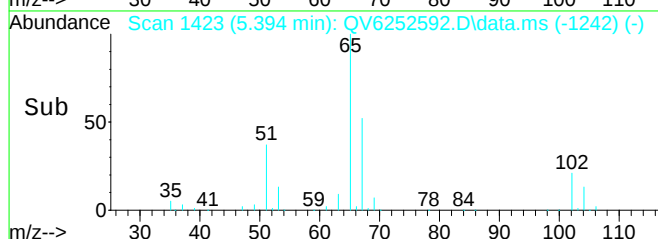
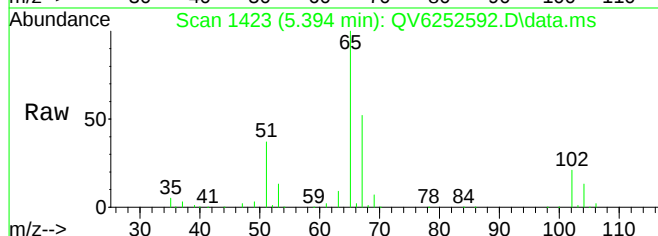
Tgt Ion: 61 Resp: 44246
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 79.9 39.2 81.4
98 50.4 24.4 50.8





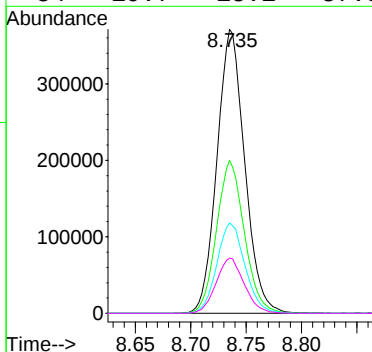
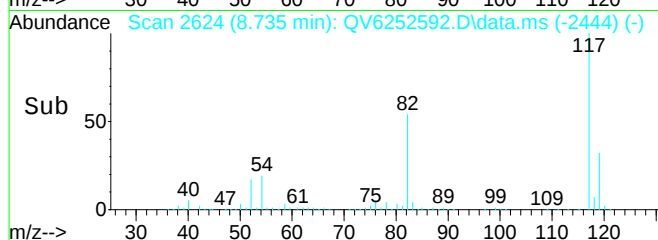
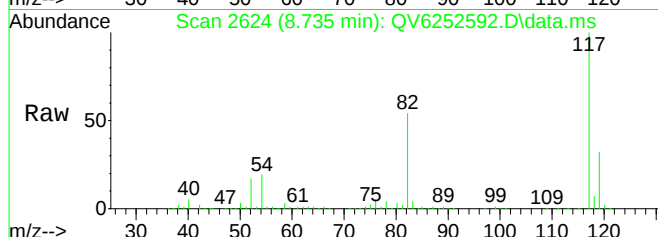
#38
d4-1,2-Dichloroethane (SURRE)
Concen: 10.65 ppb
RT: 5.394 min Scan# 1423
Delta R.T. 0.003 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

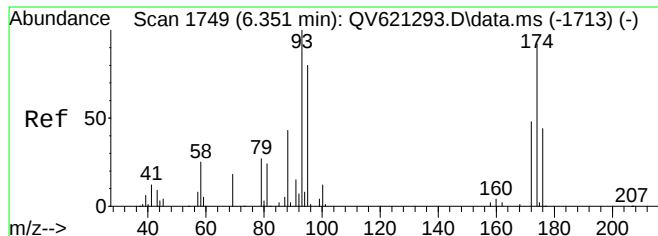
Tgt Ion: 65 Resp: 179055
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 53.0 34.0 70.6
102 20.9 10.1 30.1



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.735 min Scan# 2624
Delta R.T. 0.000 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

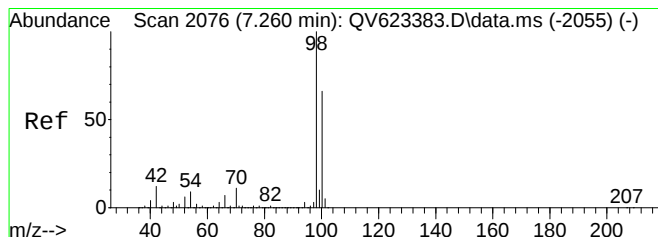
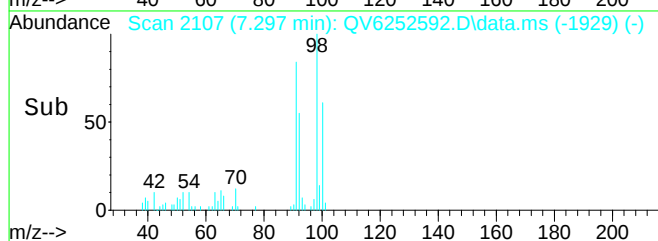
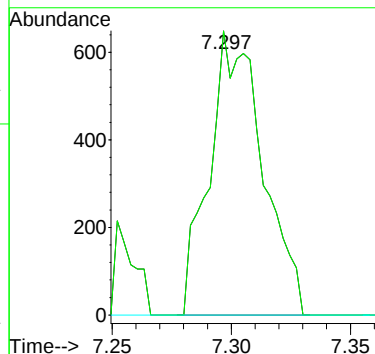
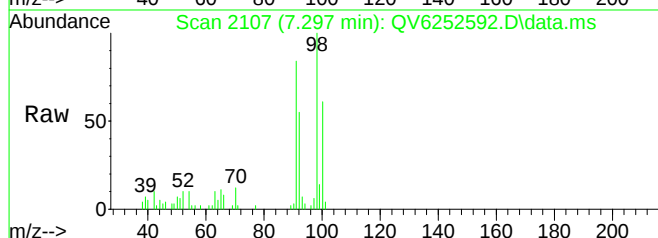
Tgt Ion: 117 Resp: 646697
Ion Ratio Lower Upper
117 100
82 53.9 34.5 71.7
119 32.3 20.9 43.3
54 19.7 18.1 37.5





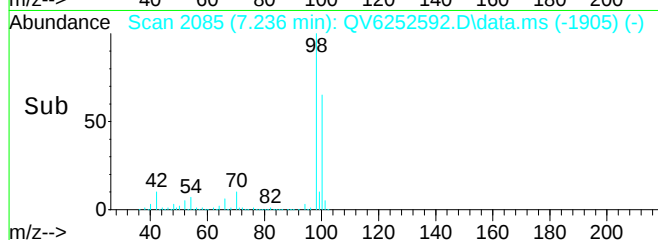
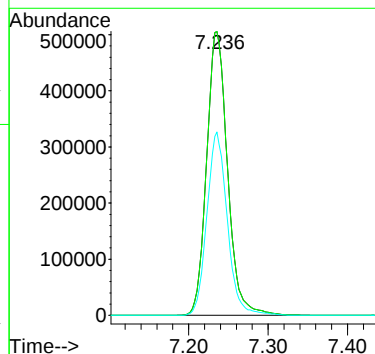
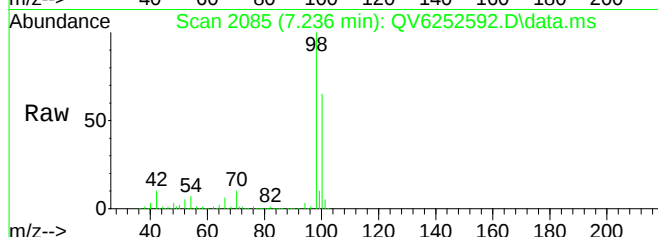
#53
2-Chloroethyl vinyl ether
Concen: 0.24 ppb
RT: 7.297 min Scan# 2107
Delta R.T. -0.005 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

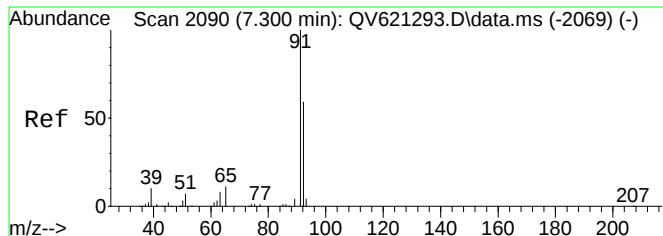
Tgt Ion: 63 Resp: 1010
Ion Ratio Lower Upper
63 100
63 100.0 60.5 125.7
106 0.0 0.5 1.5#



#56
Toluene-d8 (SURR)
Concen: 10.29 ppb
RT: 7.236 min Scan# 2085
Delta R.T. -0.000 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

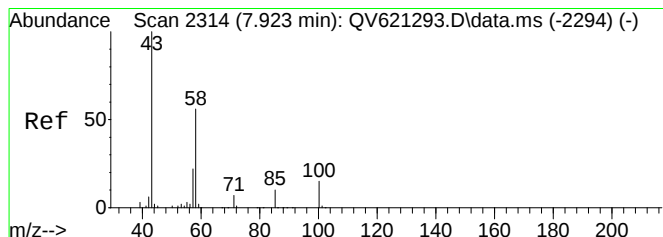
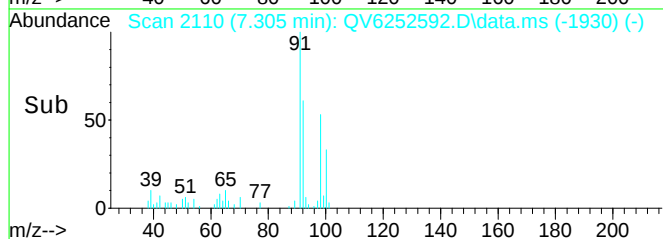
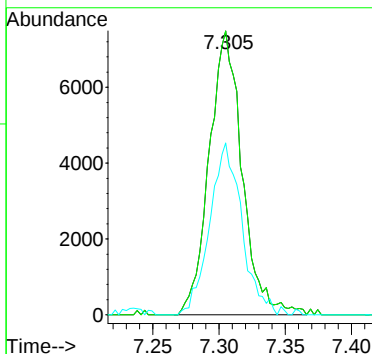
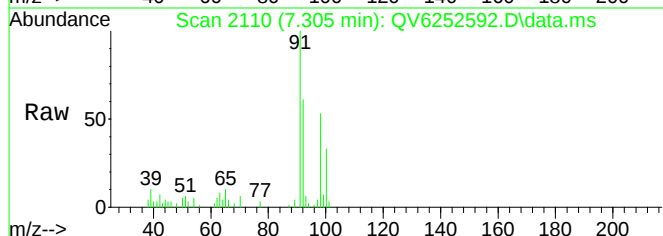
Tgt Ion: 98 Resp: 925775
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.0 44.2 91.8





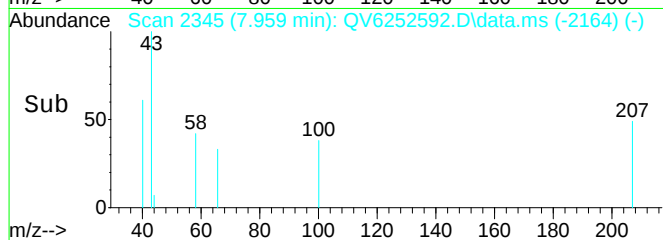
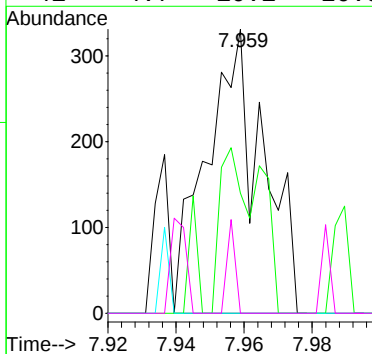
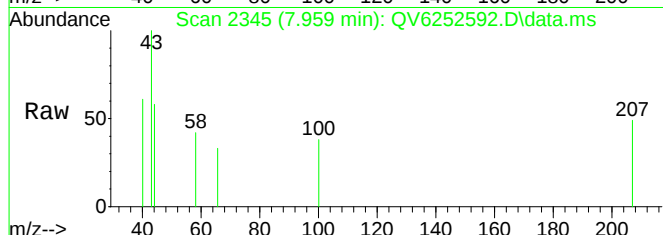
#57
Toluene
Concen: 0.23 ppb
RT: 7.305 min Scan# 2110
Delta R.T. 0.000 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

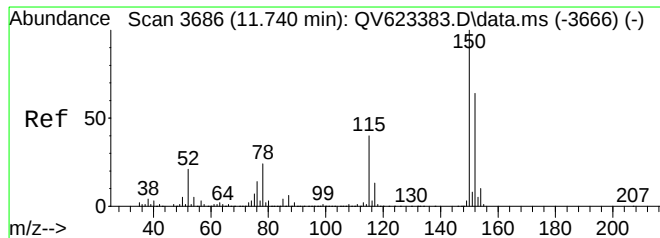
Tgt Ion: 91 Resp: 12985
Ion Ratio Lower Upper
91 100
91 100.0 65.0 135.0
92 58.8 37.2 77.4



#64
2-Hexanone
Concen: 0.17 ppb
RT: 7.959 min Scan# 2345
Delta R.T. 0.005 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

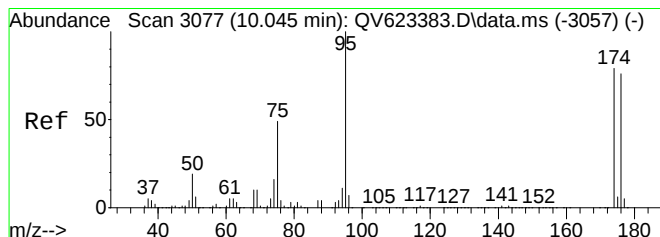
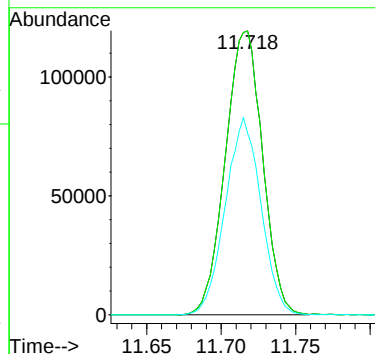
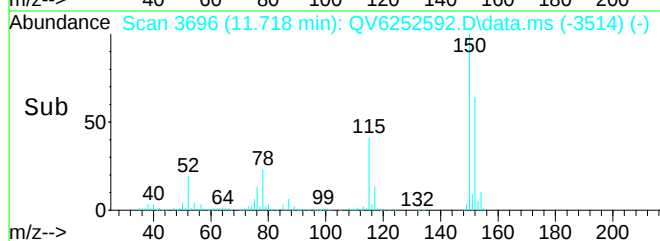
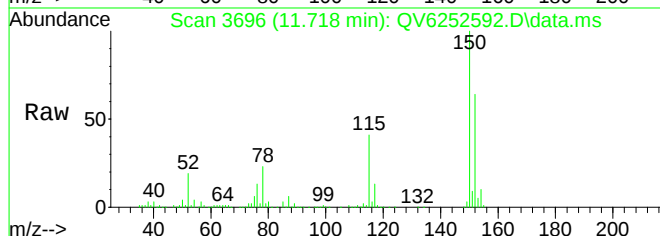
Tgt Ion: 43 Resp: 380
Ion Ratio Lower Upper
43 100
58 26.8 31.5 65.3#
57 0.0 10.4 21.6#
41 4.7 10.1 20.9#





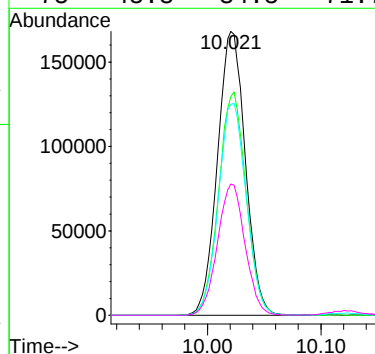
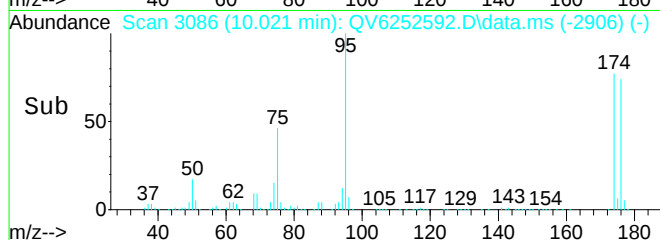
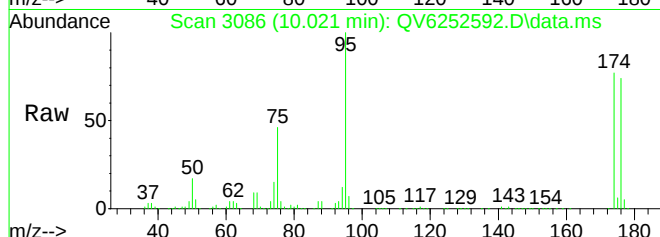
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.718 min Scan# 3696
Delta R.T. 0.006 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

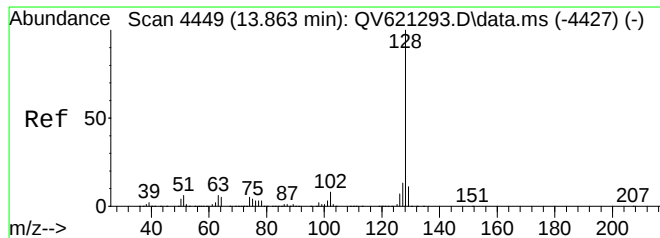
Tgt Ion: 152 Resp: 207700
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 66.4 29.8 89.3



#79
p-Bromofluorobenzene (SURR)
Concen: 9.68 ppb
RT: 10.021 min Scan# 3086
Delta R.T. -0.000 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

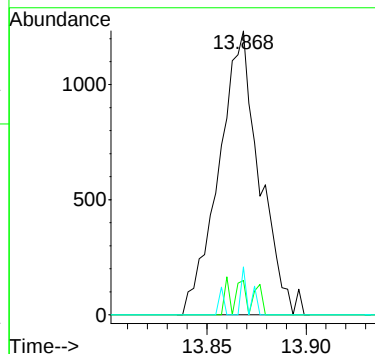
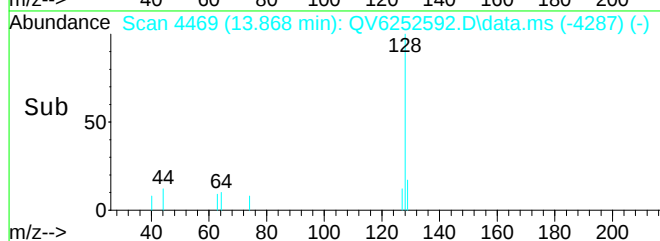
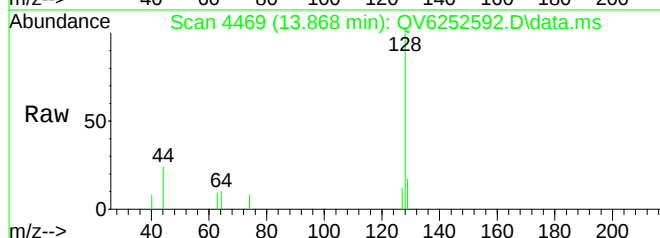
Tgt Ion: 95 Resp: 287176
Ion Ratio Lower Upper
95 100
174 77.8 62.5 129.9
176 74.9 60.7 126.1
75 45.8 34.5 71.7





#109
Naphthalene
Concen: 0.16 ppb
RT: 13.868 min Scan# 4469
Delta R.T. 0.005 min
Lab File: QV6252592.D
Acq: 19 Oct 2023 5:01 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
127	2.7	8.9	18.5#
129	3.2	7.3	15.3#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

GWDUP01_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-05 File ID: QV6252594.D
 Sampled: 10/17/23 15:00 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 17:51
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	2.55	
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	3.51	
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.450	J
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.670	
74-87-3	Chloromethane	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

GWDUP01_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Ground Water Laboratory ID: 23J1154-05 File ID: QV6252594.D
 Sampled: 10/17/23 15:00 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 17:51
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	9.51	
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.980	
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	131	
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.72	97.2	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	176427	5.7	185237	5.697	
ISTD: Chlorobenzene-d5	654468	8.735	699711	8.732	
ISTD: 1,2-Dichlorobenzene-d4	208461	11.715	219846	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252594.D
 Acq On : 19 Oct 2023 5:51 pm
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-05
 Misc : QBQV6101923A 8260 B AF
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 19 23:03:03 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

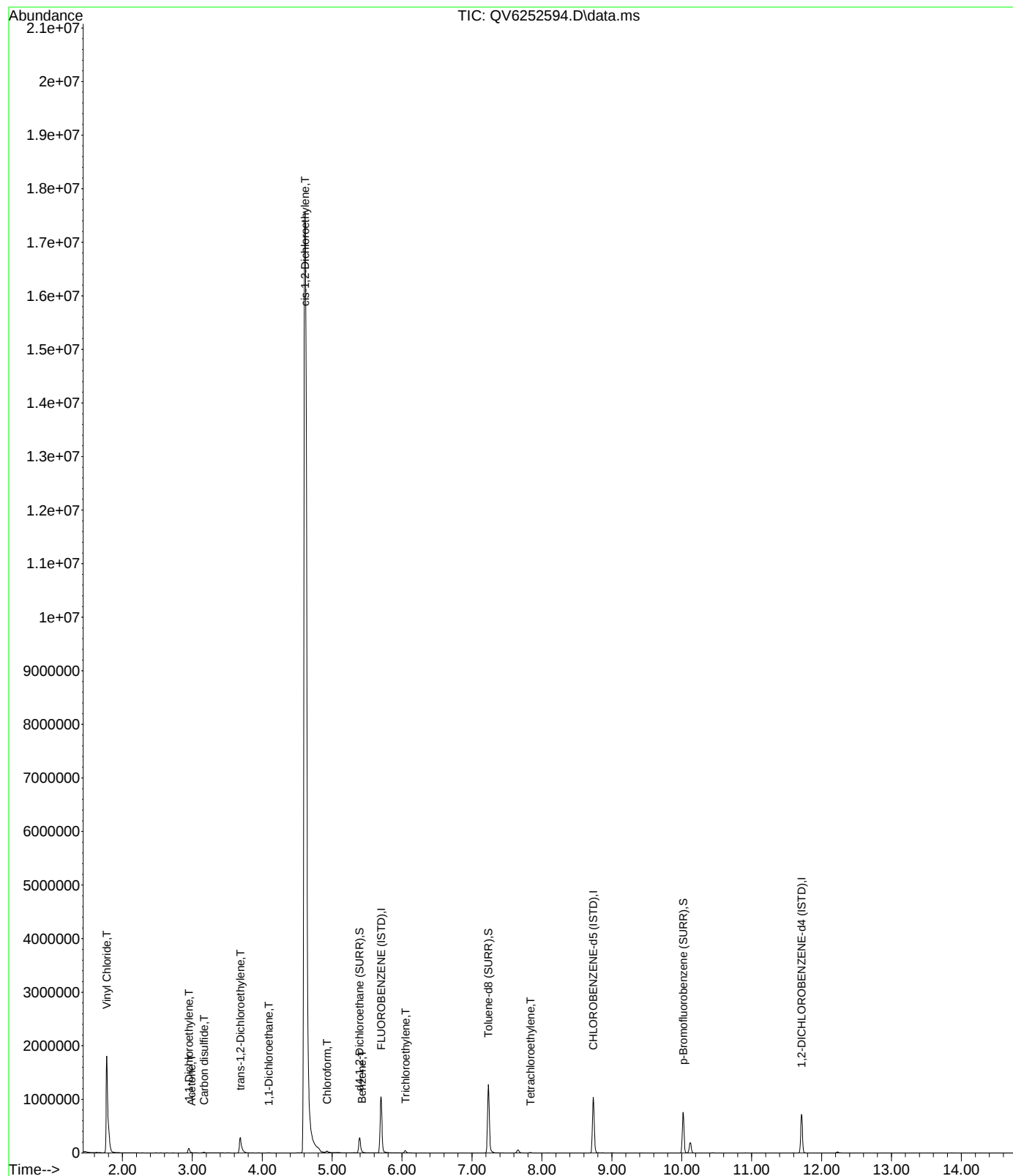
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

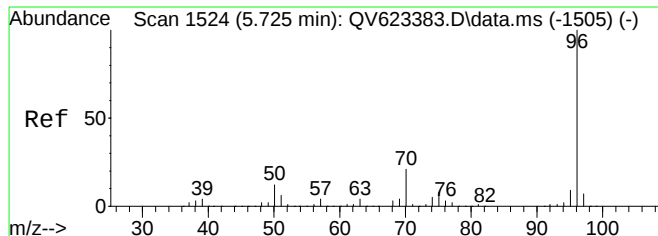
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	176427	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	654468	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.715	152	208461	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	187506	10.90	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	109.00%	
56) Toluene-d8 (SURR)	7.236	98	936420	10.29	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.90%	
79) p-Bromofluorobenzene (...)	10.021	95	289325	9.72	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	97.20%	
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.777	62	1870546m	130.80	ppb	
12) 1,1-Dichloroethylene	2.951	61	52391	2.55	ppb	# 62
14) Acetone	2.987	43	4437m	3.51	ppb	
18) Carbon disulfide	3.165	76	17174	0.45	ppb	100
22) trans-1,2-Dichloroethy...	3.685	61	194173	9.51	ppb	# 74
25) 1,1-Dichloroethane	4.092	63	4495m	0.17	ppb	
29) cis-1,2-Dichloroethylene	4.612	61	13522764	618.38	ppb	# 78
34) Chloroform	4.926	83	16586	0.67	ppb	# 84
42) Benzene	5.424	78	14485	0.26	ppb	# 1
45) Trichloroethylene	6.048	95	14787	0.98	ppb	93
63) Tetrachloroethylene	7.837	166	2287	0.15	ppb	# 77

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252594.D
Acq On : 19 Oct 2023 5:51 pm
InstName : QV0A6
Operator : JTG
Sample : 23J1154-05
Misc : QBQV6101923A 8260 B AF
ALS Vial : 21 Sample Multiplier: 1

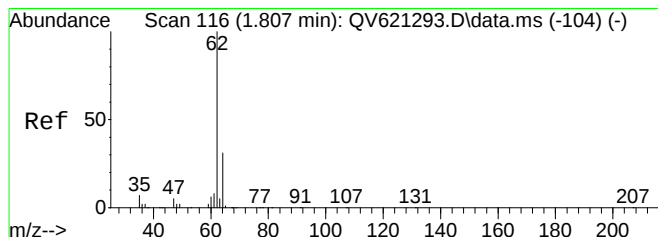
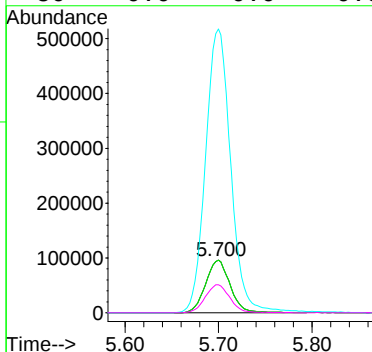
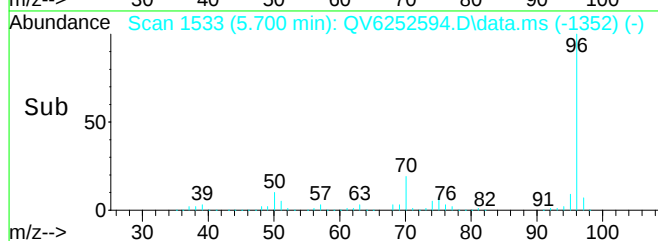
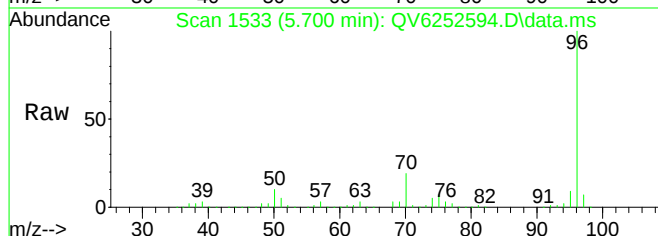
Quant Time: Oct 19 23:03:03 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





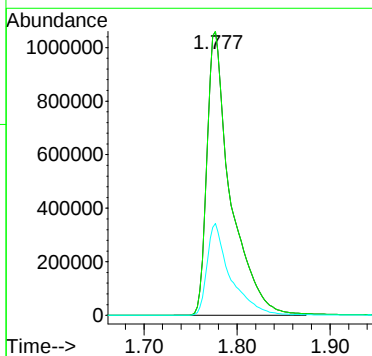
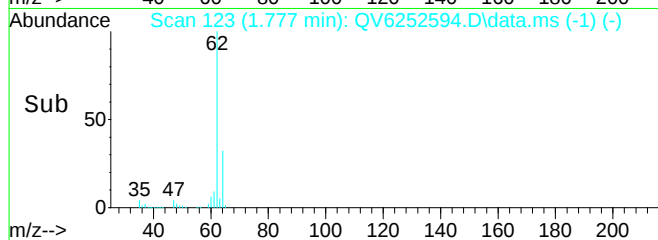
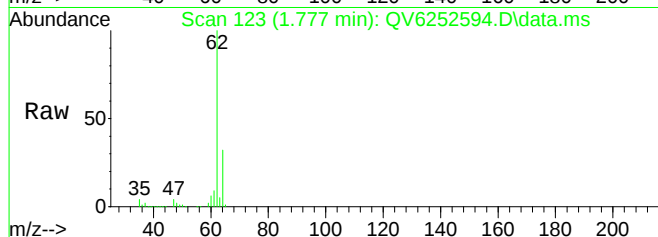
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252594.D
 Acq: 19 Oct 2023 5:51 pm

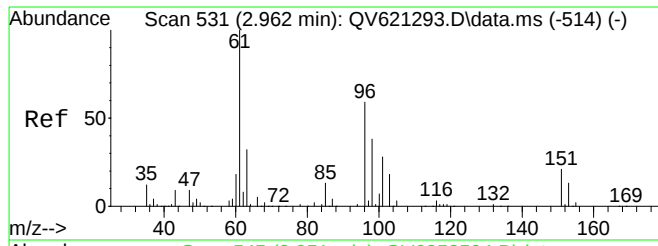
Tgt Ion: 70 Resp: 176427
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 552.4 341.1 708.3
 50 0.0 0.0 0.0



#5
 Vinyl Chloride
 Concen: 130.80 ppb m
 RT: 1.777 min Scan# 123
 Delta R.T. 0.003 min
 Lab File: QV6252594.D
 Acq: 19 Oct 2023 5:51 pm

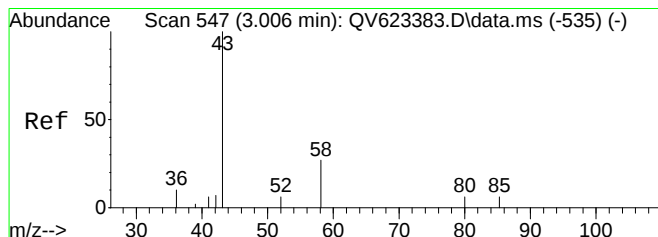
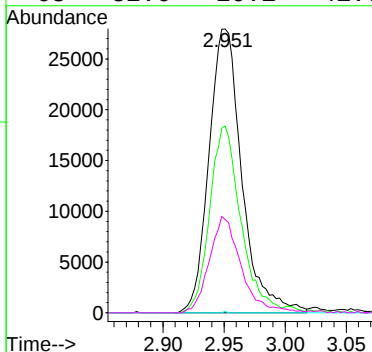
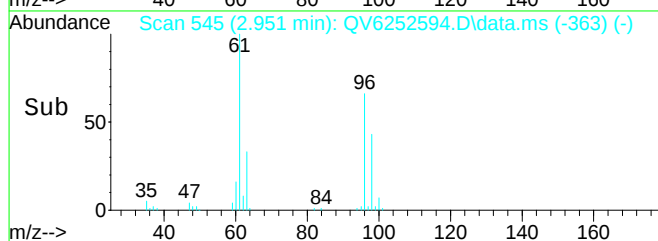
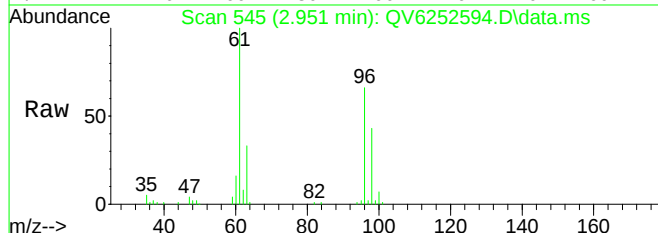
Tgt Ion: 62 Resp: 1870546
 Ion Ratio Lower Upper
 62 100
 62 100.6 36.0 74.8#
 64 31.7 12.5 25.9#





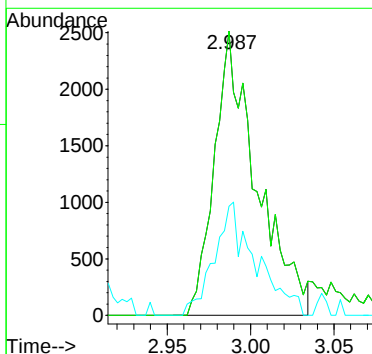
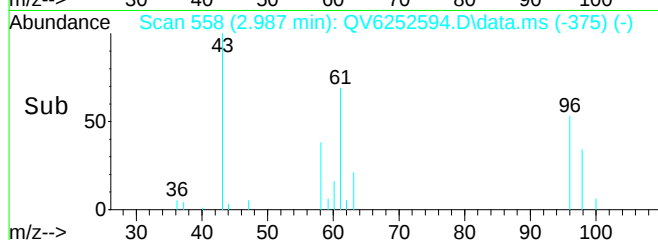
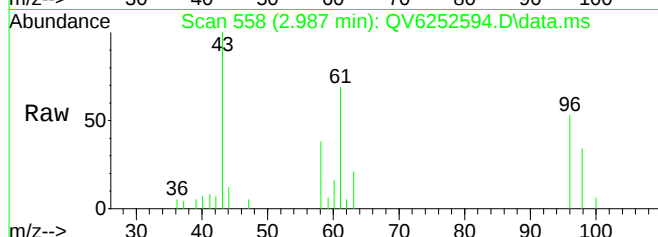
#12
1,1-Dichloroethylene
Concen: 2.55 ppb
RT: 2.951 min Scan# 545
Delta R.T. 0.006 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

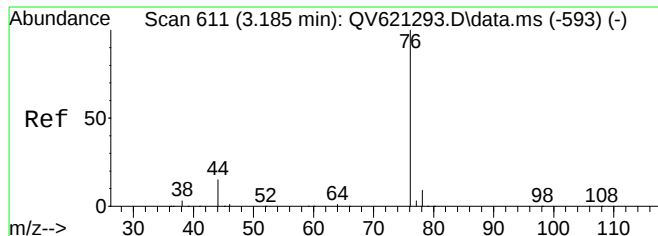
Tgt Ion:	61	Resp:	52391
Ion	Ratio	Lower	Upper
61	100		
96	61.9	33.6	69.8
101	0.0	37.0	77.0#
63	32.6	20.1	41.7



#14
Acetone
Concen: 3.51 ppb m
RT: 2.987 min Scan# 558
Delta R.T. 0.008 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

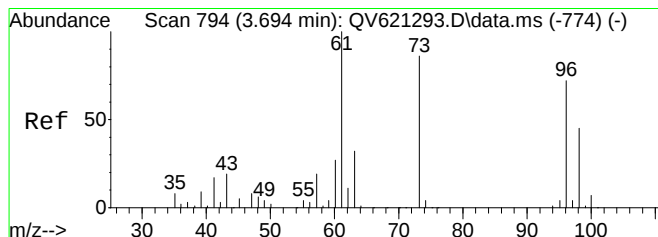
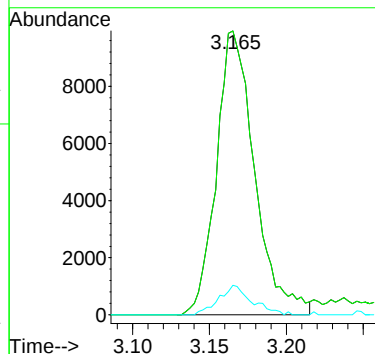
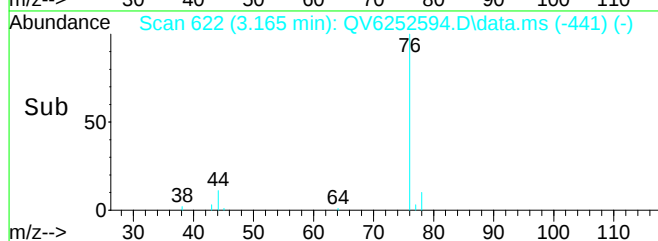
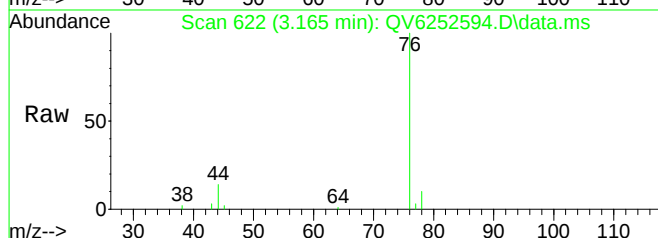
Tgt Ion:	43	Resp:	4437
Ion	Ratio	Lower	Upper
43	100		
43	98.9	80.0	120.0
58	30.0	6.0	18.1#





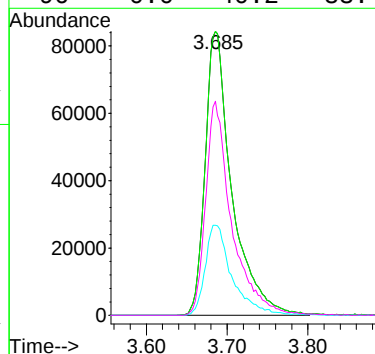
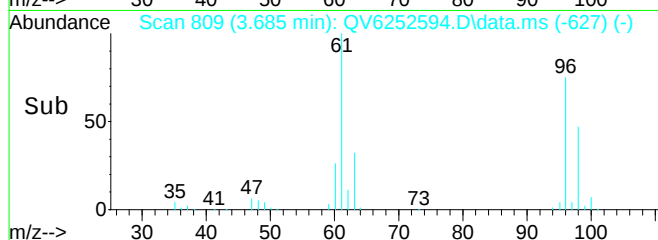
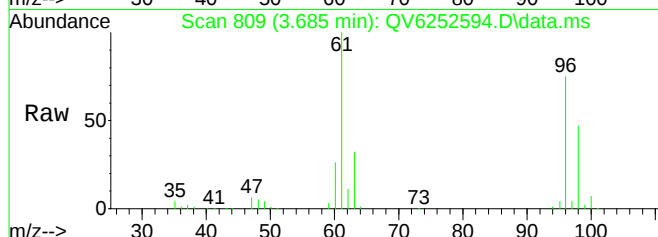
#18
Carbon disulfide
Concen: 0.45 ppb
RT: 3.165 min Scan# 622
Delta R.T. 0.003 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

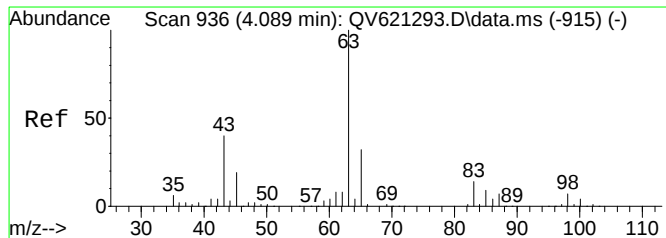
Tgt Ion: 76 Resp: 17174
Ion Ratio Lower Upper
76 100
76 100.0 65.0 135.0
78 9.0 4.5 13.4



#22
trans-1,2-Dichloroethylene
Concen: 9.51 ppb
RT: 3.685 min Scan# 809
Delta R.T. 0.005 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

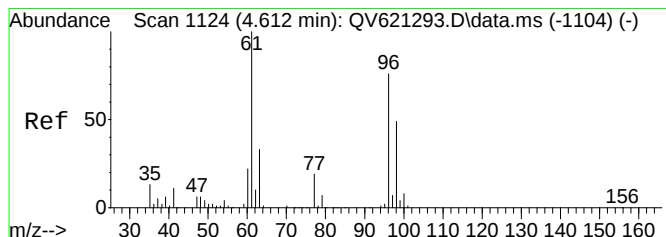
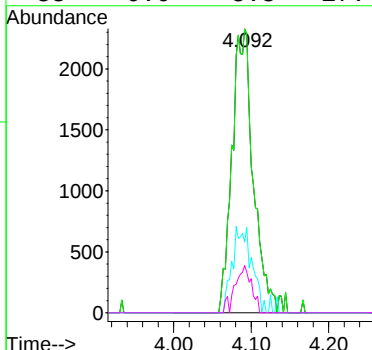
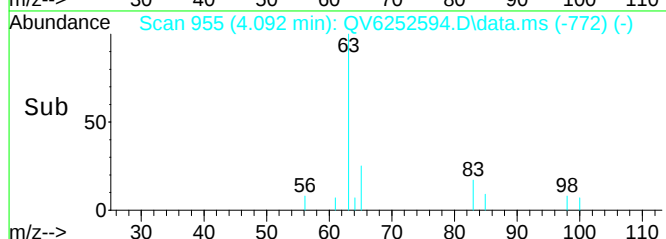
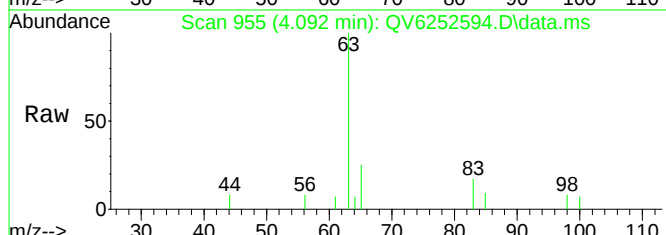
Tgt Ion: 61 Resp: 194173
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 31.8 20.9 43.3
96 0.0 40.2 83.4#





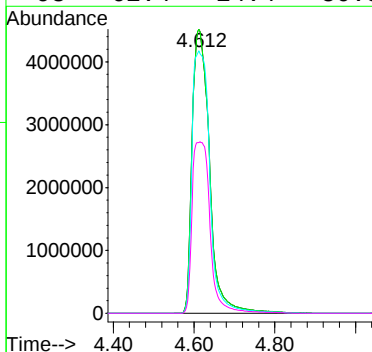
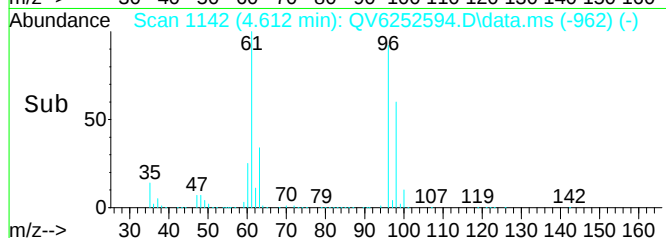
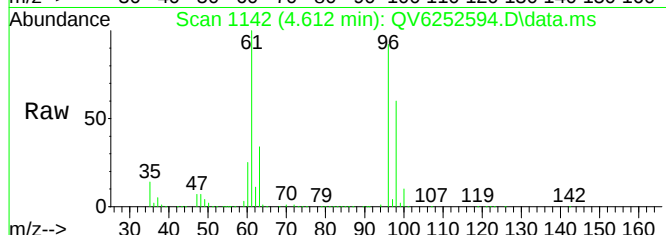
#25
1,1-Dichloroethane
Concen: 0.17 ppb m
RT: 4.092 min Scan# 955
Delta R.T. 0.009 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

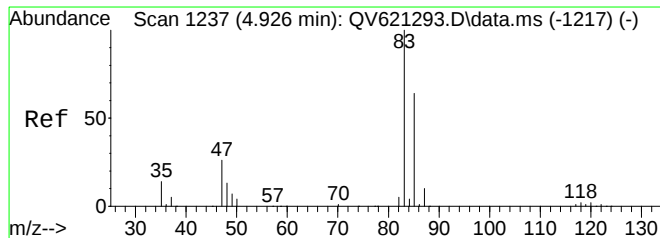
Tgt Ion: 63 Resp: 4495
Ion Ratio Lower Upper
63 100
63 1373.9 65.0 135.0#
65 0.0 19.4 40.2#
83 0.0 5.8 17.4#



#29
cis-1,2-Dichloroethylene
Concen: 618.38 ppb
RT: 4.612 min Scan# 1142
Delta R.T. -0.000 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

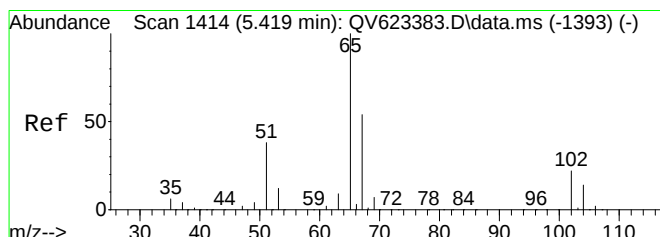
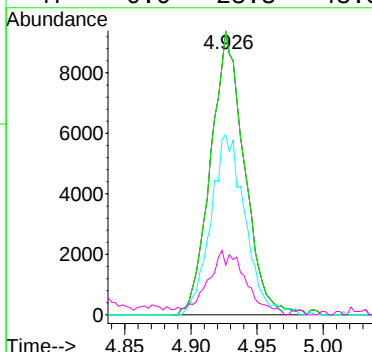
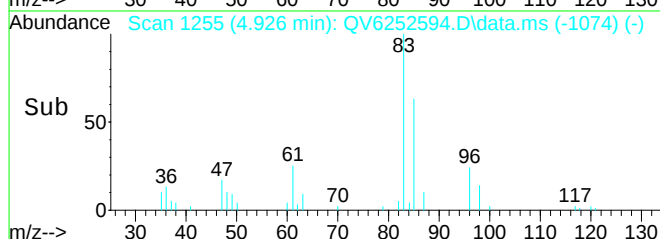
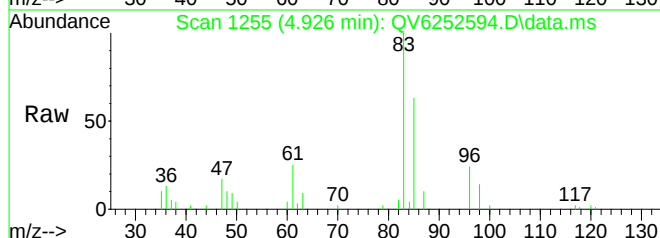
Tgt Ion: 61 Resp: 13522764
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 94.5 39.2 81.4#
98 62.4 24.4 50.8#





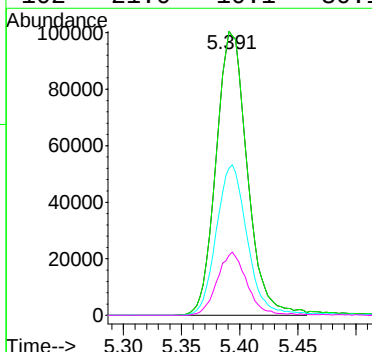
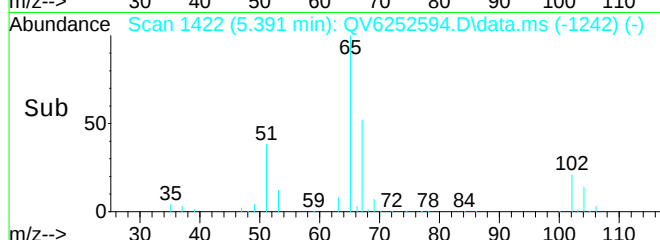
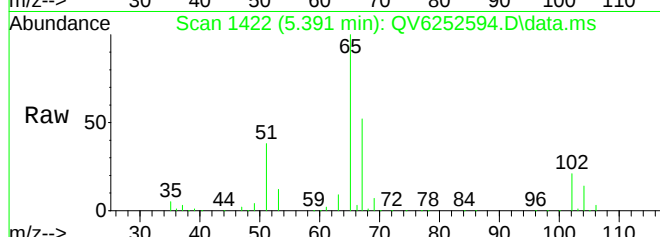
#34
Chloroform
Concen: 0.67 ppb
RT: 4.926 min Scan# 1255
Delta R.T. 0.002 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

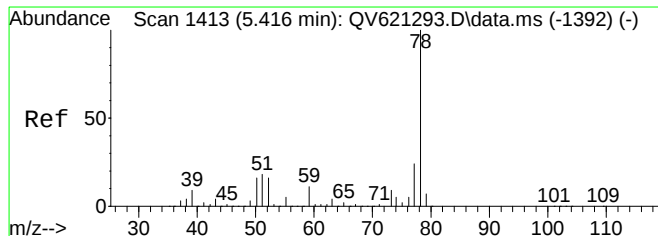
Tgt Ion: 83 Resp: 16586
Ion Ratio Lower Upper
83 100
83 100.0 65.0 135.0
85 64.3 0.0 0.0#
47 0.0 23.3 48.3#



#38
d4-1,2-Dichloroethane (Surr)
Concen: 10.90 ppb
RT: 5.391 min Scan# 1422
Delta R.T. -0.000 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

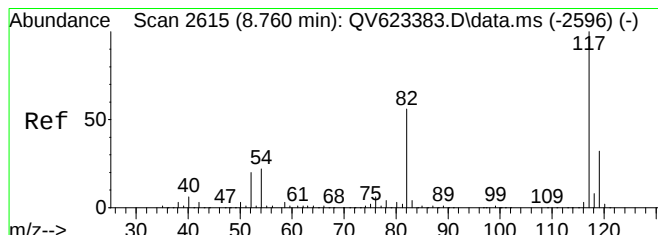
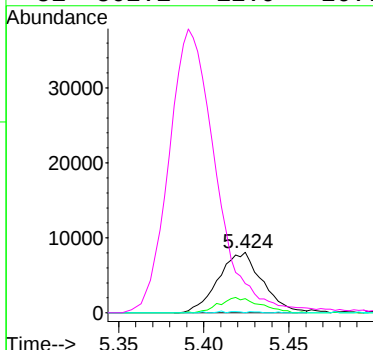
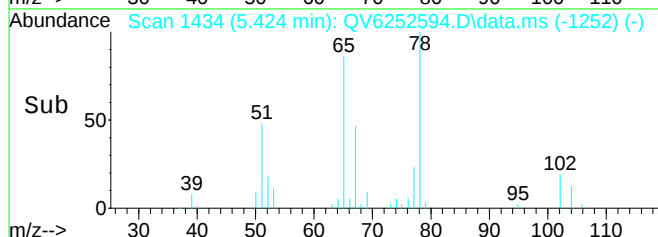
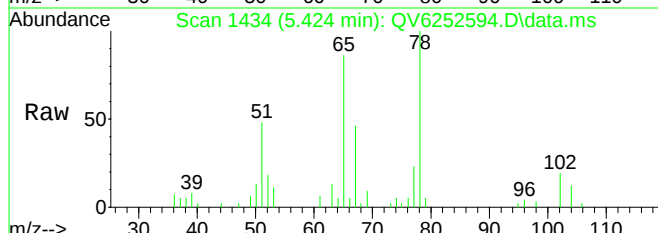
Tgt Ion: 65 Resp: 187506
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 52.5 34.0 70.6
102 21.0 10.1 30.1





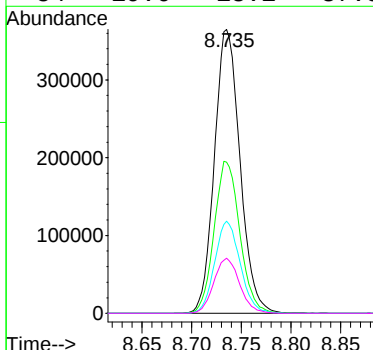
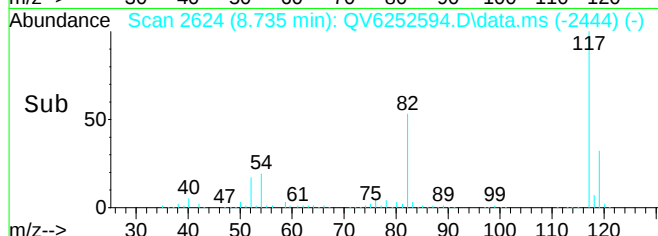
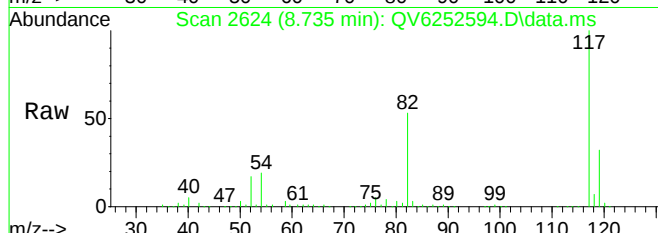
#42
Benzene
Concen: 0.26 ppb
RT: 5.424 min Scan# 1434
Delta R.T. 0.005 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

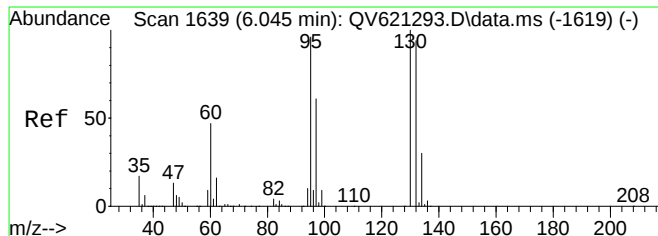
Tgt Ion: 78 Resp: 14485
Ion Ratio Lower Upper
78 100
77 23.5 15.7 32.5
62 0.0 22.9 47.5#
51 502.1 12.9 26.7#



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.735 min Scan# 2624
Delta R.T. 0.000 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

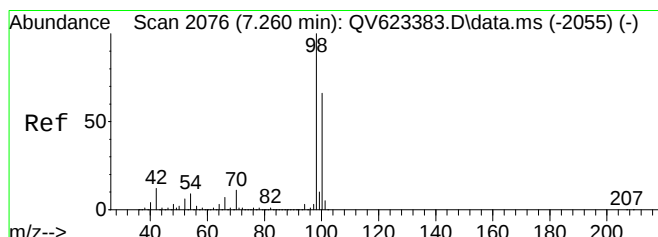
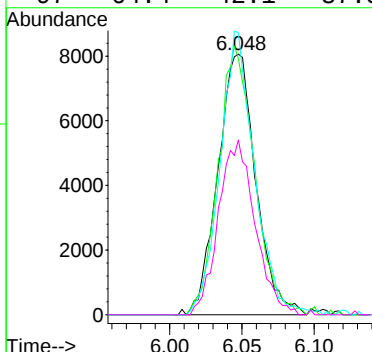
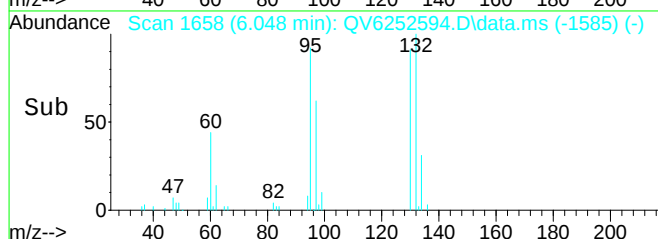
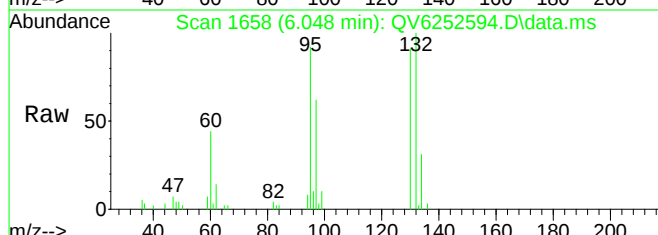
Tgt Ion: 117 Resp: 654468
Ion Ratio Lower Upper
117 100
82 53.6 34.5 71.7
119 32.3 20.9 43.3
54 19.6 18.1 37.5





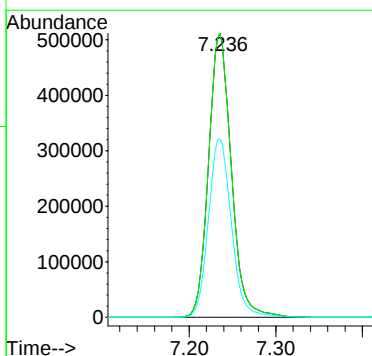
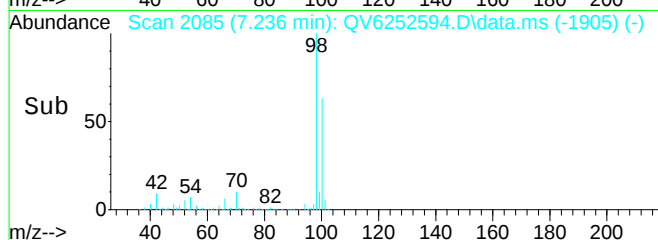
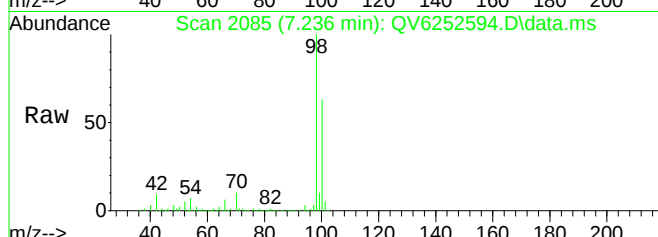
#45
Trichloroethylene
Concen: 0.98 ppb
RT: 6.048 min Scan# 1658
Delta R.T. 0.003 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

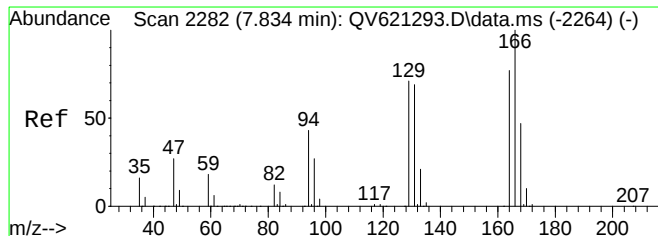
Tgt Ion: 95 Resp: 14787
Ion Ratio Lower Upper
95 100
130 98.5 70.0 145.4
132 98.8 69.6 144.6
97 64.4 42.1 87.3



#56
Toluene-d8 (SURRE)
Concen: 10.29 ppb
RT: 7.236 min Scan# 2085
Delta R.T. -0.000 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

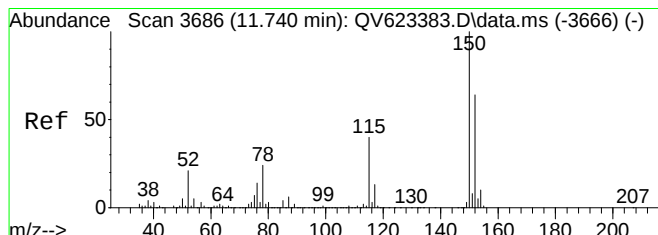
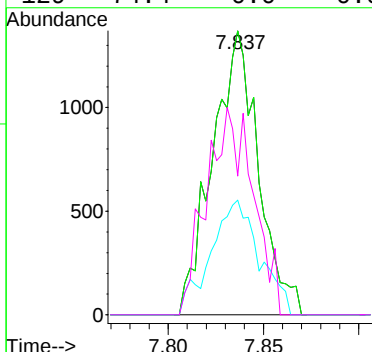
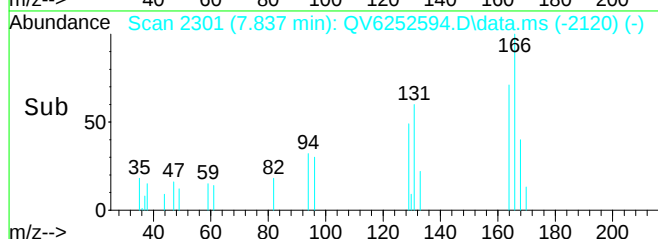
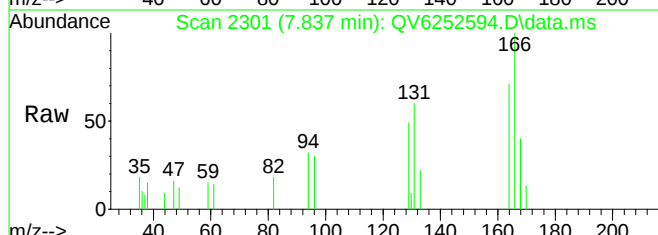
Tgt Ion: 98 Resp: 936420
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.4 44.2 91.8





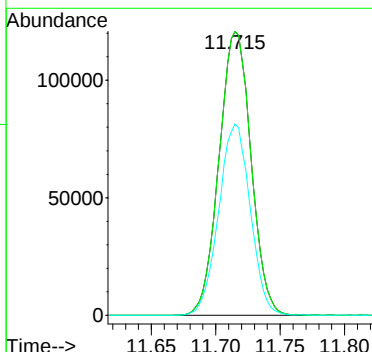
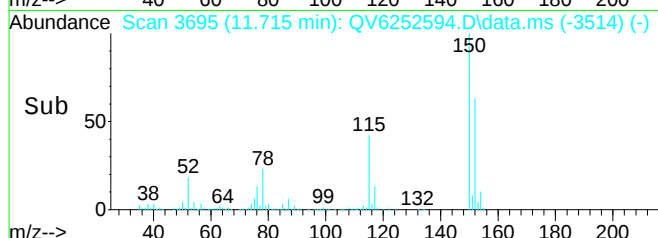
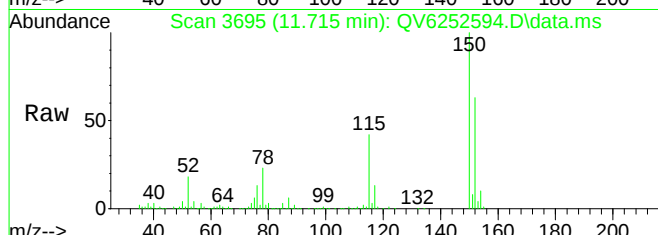
#63
Tetrachloroethylene
Concen: 0.15 ppb
RT: 7.837 min Scan# 2301
Delta R.T. 0.003 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

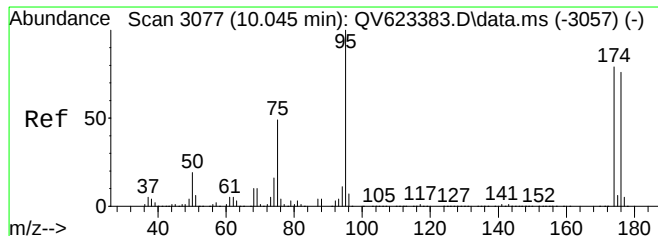
Tgt Ion:166 Resp: 2287
Ion Ratio Lower Upper
166 100
166 100.0 65.0 135.0
168 0.0 31.7 65.7#
129 74.4 0.0 0.0#



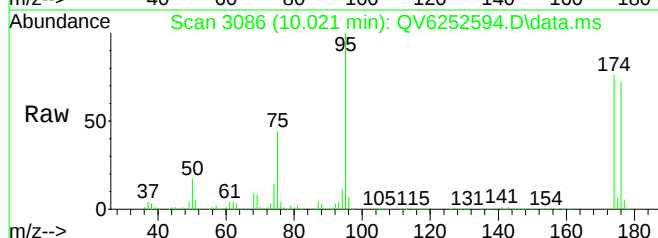
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.715 min Scan# 3695
Delta R.T. 0.003 min
Lab File: QV6252594.D
Acq: 19 Oct 2023 5:51 pm

Tgt Ion:152 Resp: 208461
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 66.6 29.8 89.3

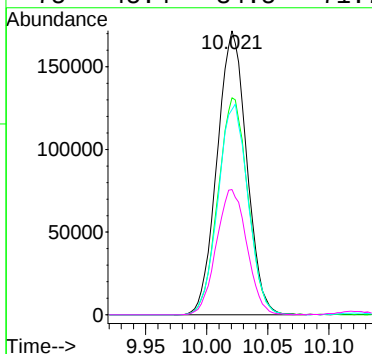
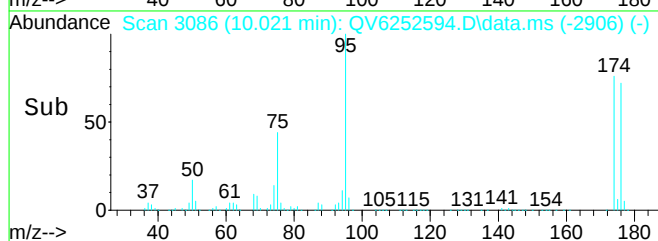




#79
 p-Bromofluorobenzene (SURRE)
 Concen: 9.72 ppb
 RT: 10.021 min Scan# 3086
 Delta R.T. -0.000 min
 Lab File: QV6252594.D
 Acq: 19 Oct 2023 5:51 pm



Tgt Ion:	95	Resp:	289325
Ion Ratio	Lower	Upper	
95	100		
174	77.2	62.5	129.9
176	75.4	60.7	126.1
75	45.4	34.5	71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

GWDUP01_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Ground Water Laboratory ID: 23J1154-05RE1 File ID: QV6252622.D
Sampled: 10/17/23 15:00 Prepared: 10/19/23 06:17 Analyzed: 10/20/23 05:19
Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Batch: BJ31371 Sequence: S3J2002 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	10	1450	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	163647	5.7	178352	5.7	
ISTD: Chlorobenzene-d5	588907	8.735	674501	8.735	
ISTD: 1,2-Dichlorobenzene-d4	176358	11.715	220537	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252622.D
 Acq On : 20 Oct 2023 5:19 am
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-05RE1
 Misc : QBQV6101923B 8260 C AF 5mL/50mL
 ALS Vial : 49 Sample Multiplier: 10

Quant Time: Oct 20 12:43:16 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

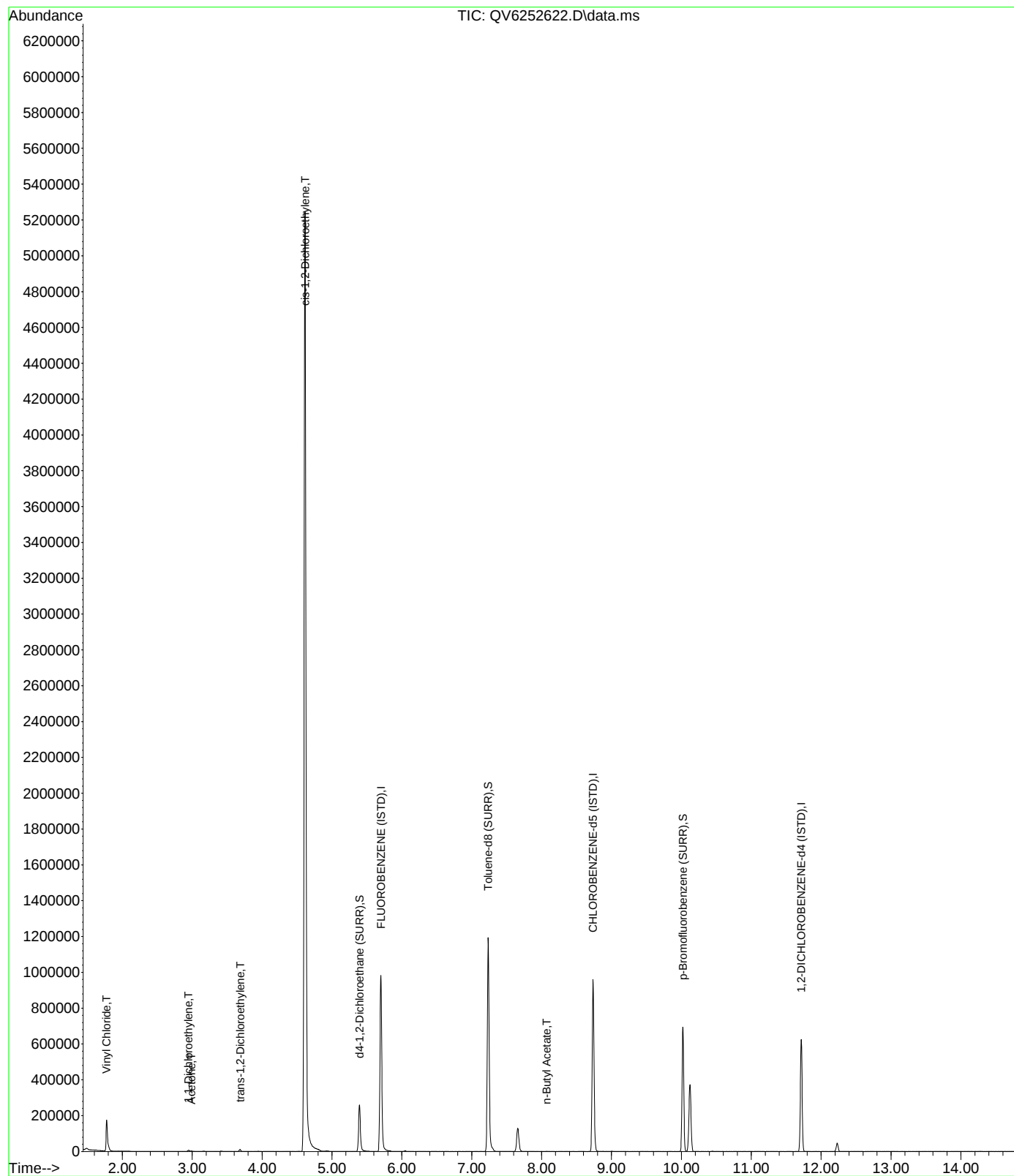
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

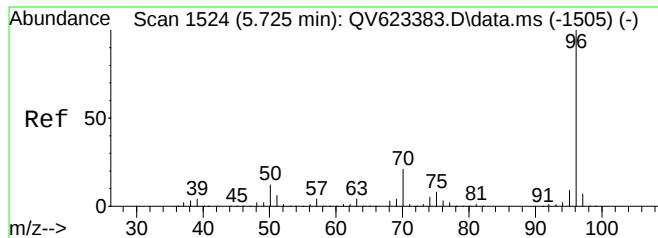
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	163647	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	588907	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.715	152	176358	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	172712	10.82	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	108.20%	
56) Toluene-d8 (SURR)	7.236	98	853616	10.42	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	104.20%	
79) p-Bromofluorobenzene (...)	10.021	95	262426	10.42	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	104.20%	
Target Compounds						
5) Vinyl Chloride	1.774	62	156319	11.78	ppb	# 47
12) 1,1-Dichloroethylene	2.945	61	4011	0.21	ppb	# 64
14) Acetone	2.987	43	3113m	2.65	ppb	
22) trans-1,2-Dichloroethy...	3.686	61	5512	0.29	ppb	96
29) cis-1,2-Dichloroethylene	4.615	61	2946673	145.27	ppb	# 71
65) n-Butyl Acetate	8.070	56	536m	0.21	ppb	

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252622.D
Acq On : 20 Oct 2023 5:19 am
InstName : QVOA6
Operator : JTG
Sample : 23J1154-05RE1
Misc : QBQV6101923B 8260 C AF 5mL/50mL
ALS Vial : 49 Sample Multiplier: 10

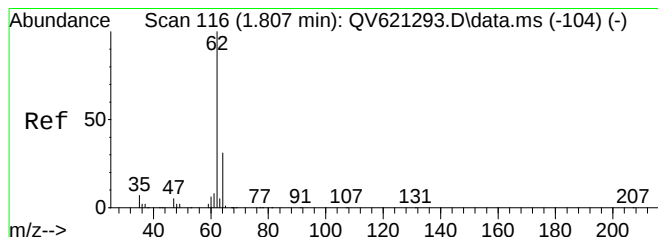
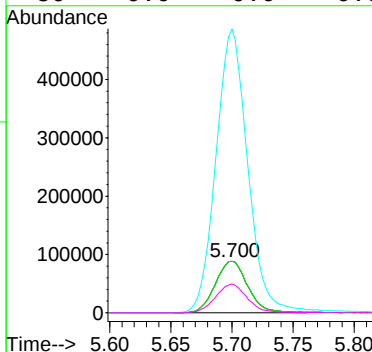
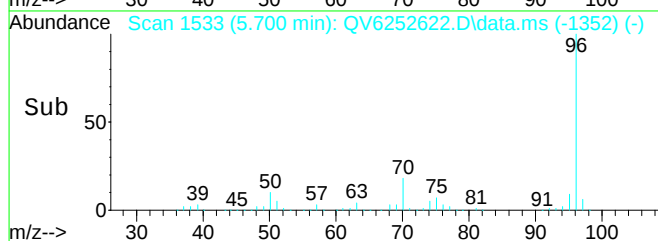
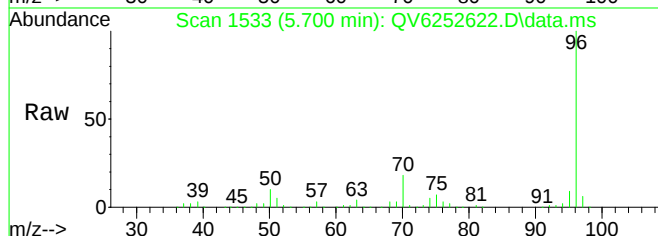
Quant Time: Oct 20 12:43:16 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





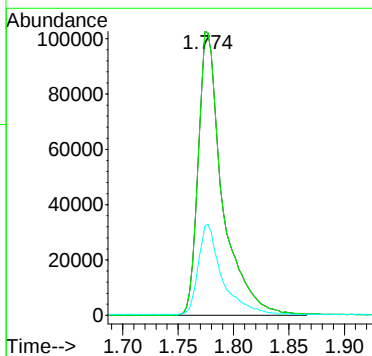
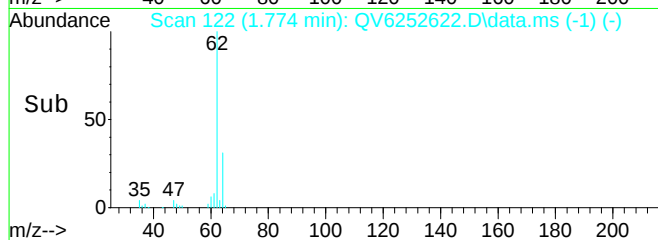
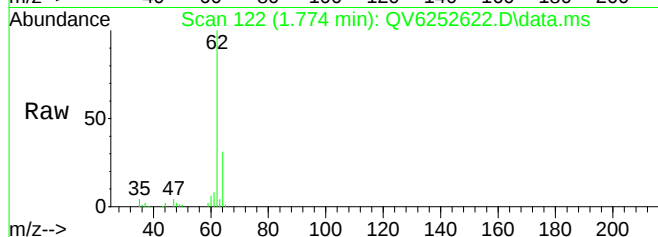
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252622.D
 Acq: 20 Oct 2023 5:19 am

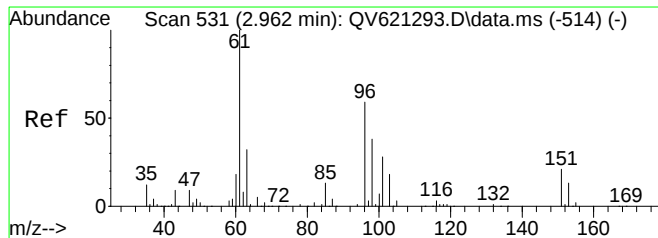
Tgt Ion: 70 Resp: 163647
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 540.8 341.1 708.3
 50 0.0 0.0 0.0



#5
 Vinyl Chloride
 Concen: 11.78 ppb
 RT: 1.774 min Scan# 122
 Delta R.T. 0.000 min
 Lab File: QV6252622.D
 Acq: 20 Oct 2023 5:19 am

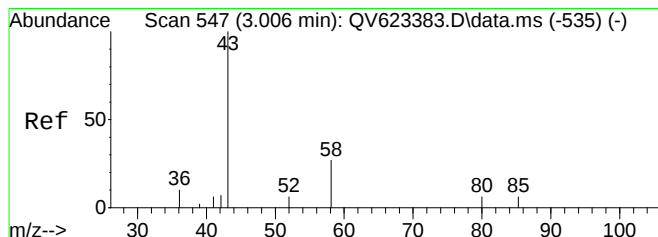
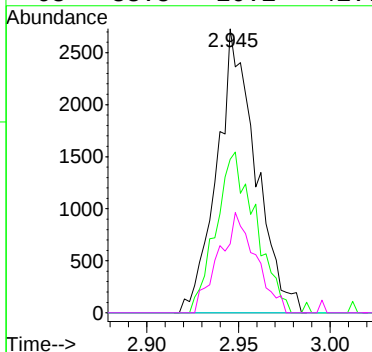
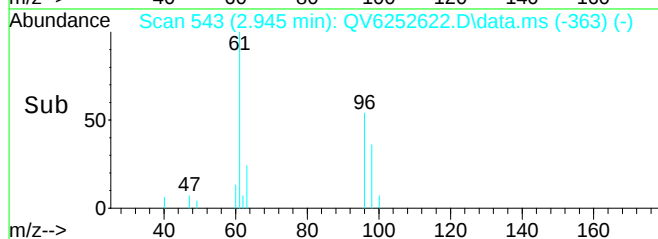
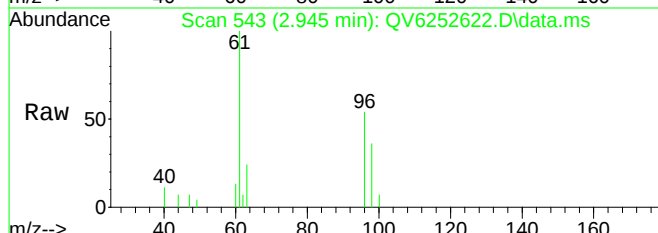
Tgt Ion: 62 Resp: 156319
 Ion Ratio Lower Upper
 62 100
 62 100.0 36.0 74.8#
 64 31.3 12.5 25.9#





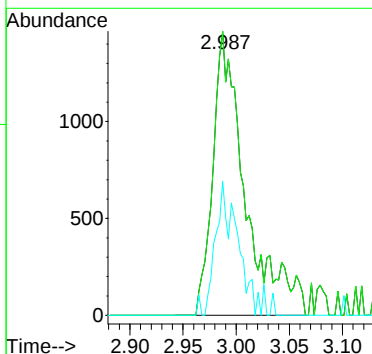
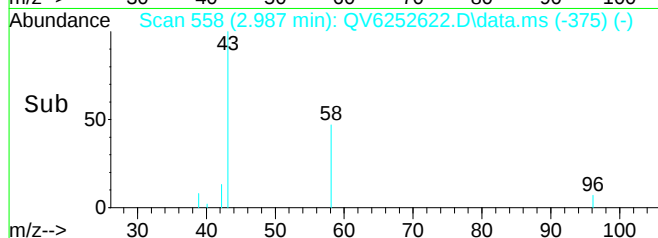
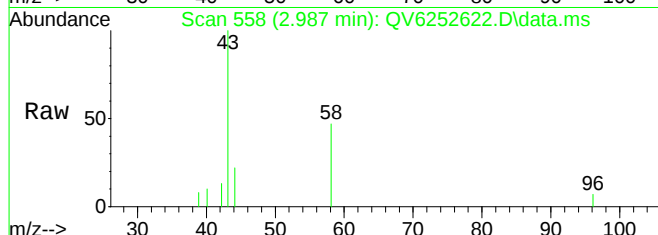
#12
1,1-Dichloroethylene
Concen: 0.21 ppb
RT: 2.945 min Scan# 543
Delta R.T. 0.000 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

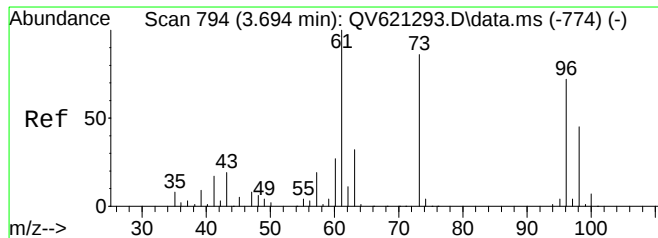
Tgt Ion: 61 Resp: 4011
Ion Ratio Lower Upper
61 100
96 58.0 33.6 69.8
101 0.0 37.0 77.0#
63 33.5 20.1 41.7



#14
Acetone
Concen: 2.65 ppb m
RT: 2.987 min Scan# 558
Delta R.T. 0.008 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

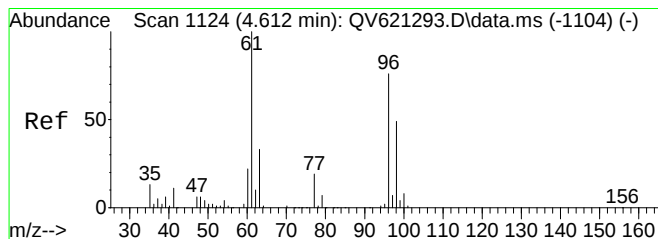
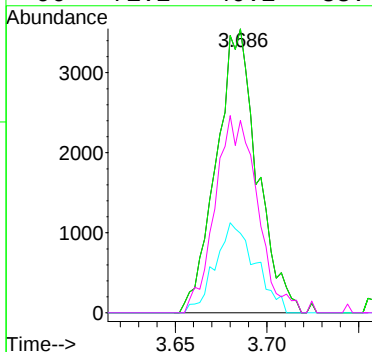
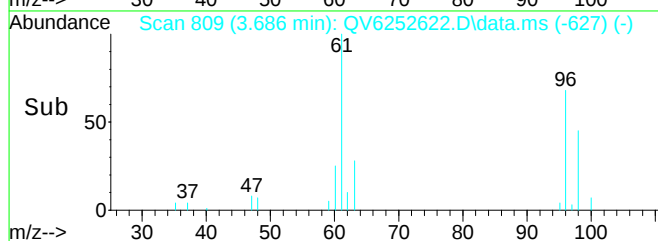
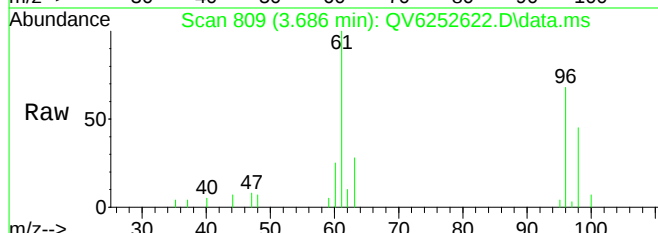
Tgt Ion: 43 Resp: 3113
Ion Ratio Lower Upper
43 100
43 86.1 80.0 120.0
58 17.1 6.0 18.1





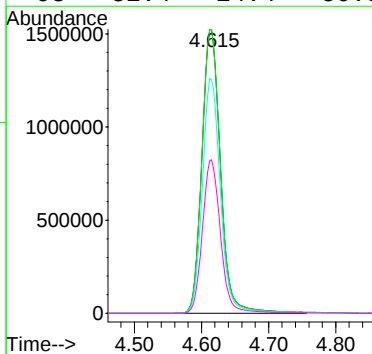
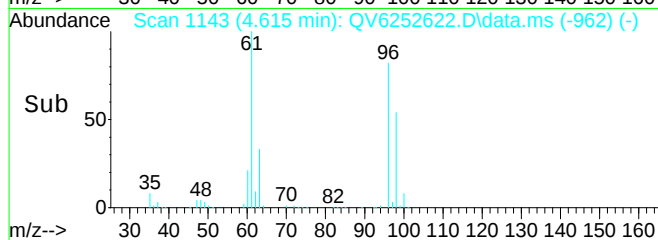
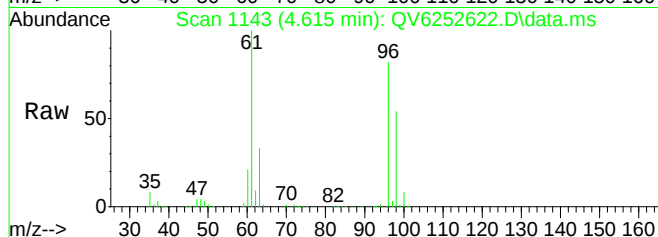
#22
trans-1,2-Dichloroethylene
Concen: 0.29 ppb
RT: 3.686 min Scan# 809
Delta R.T. 0.006 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

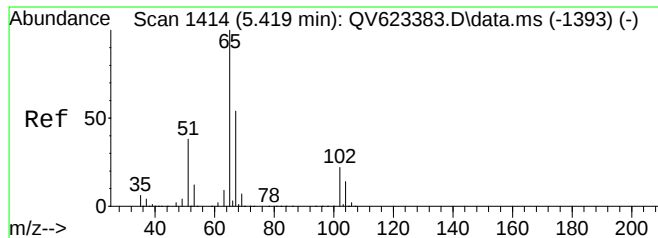
Tgt Ion: 61 Resp: 5512
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
63 31.0 20.9 43.3
96 71.2 40.2 83.4



#29
cis-1,2-Dichloroethylene
Concen: 145.27 ppb
RT: 4.615 min Scan# 1143
Delta R.T. 0.003 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

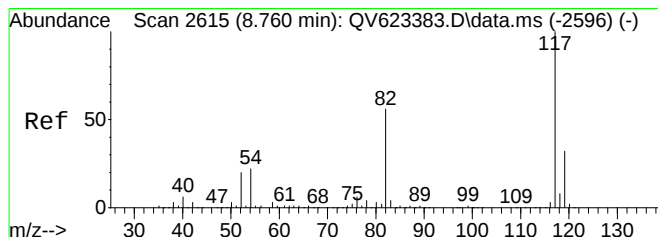
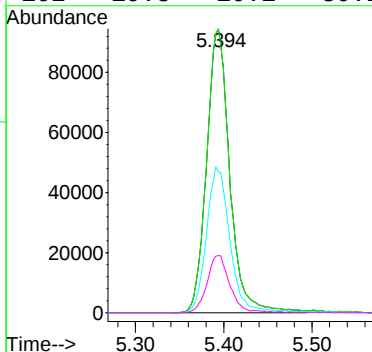
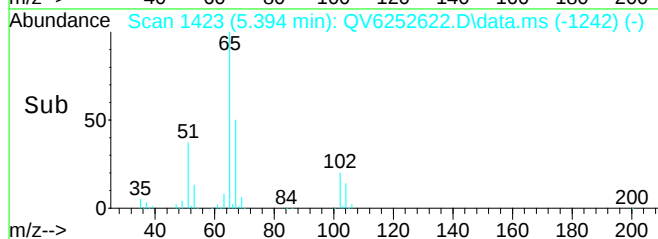
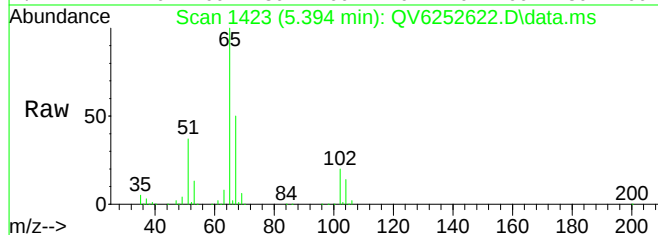
Tgt Ion: 61 Resp: 2946673
Ion Ratio Lower Upper
61 100
61 100.0 65.0 135.0
96 0.0 39.2 81.4#
98 52.4 24.4 50.8#





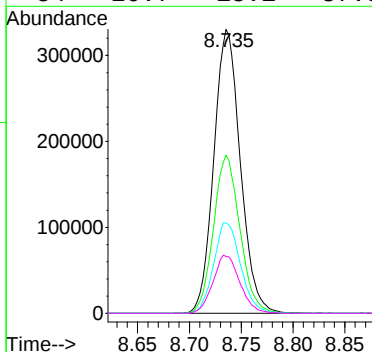
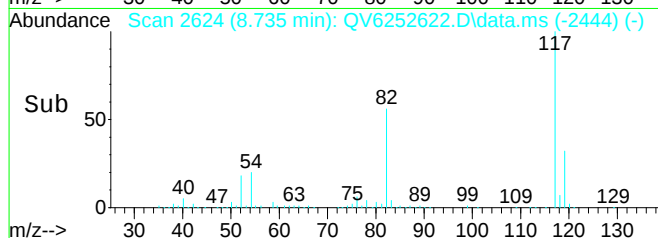
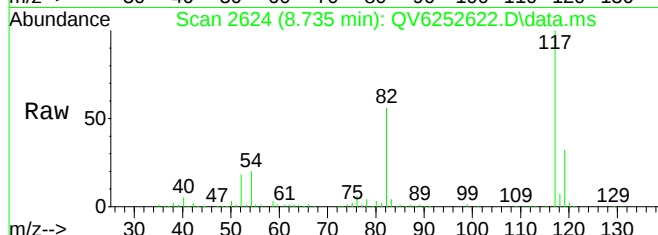
#38
d4-1,2-Dichloroethane (SURRE)
Concen: 10.82 ppb
RT: 5.394 min Scan# 1423
Delta R.T. 0.003 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

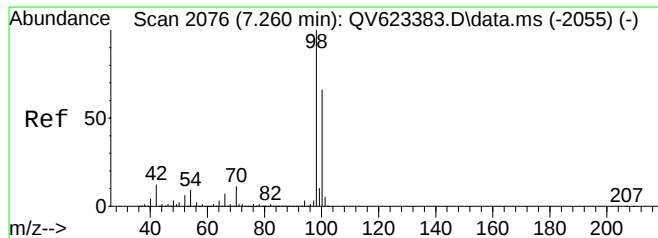
Tgt Ion: 65 Resp: 172712
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 0.0 34.0 70.6#
102 19.8 10.1 30.1



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.735 min Scan# 2624
Delta R.T. 0.000 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

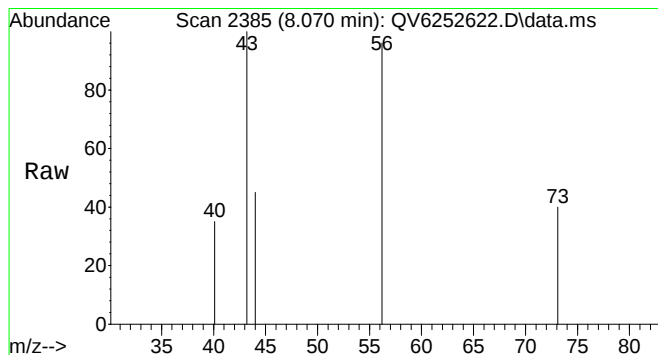
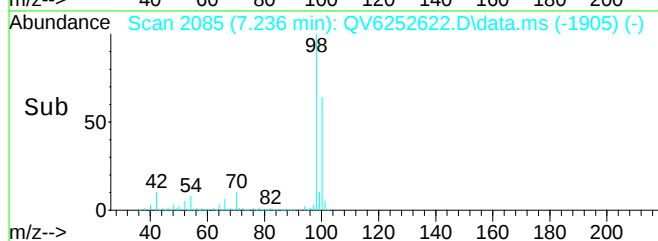
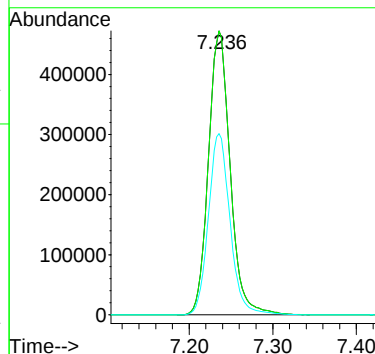
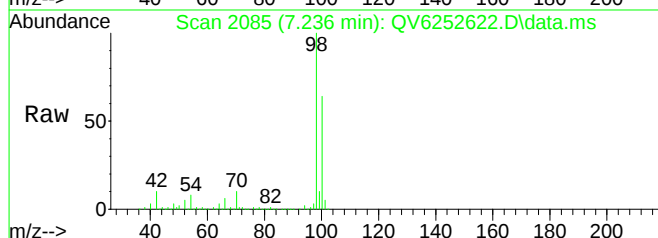
Tgt Ion: 117 Resp: 588907
Ion Ratio Lower Upper
117 100
82 55.3 34.5 71.7
119 32.4 20.9 43.3
54 20.7 18.1 37.5





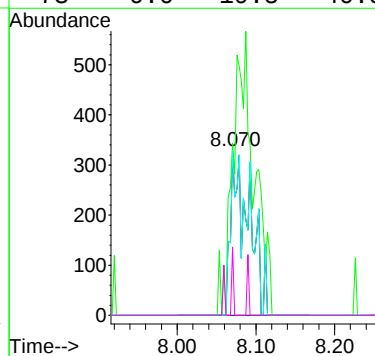
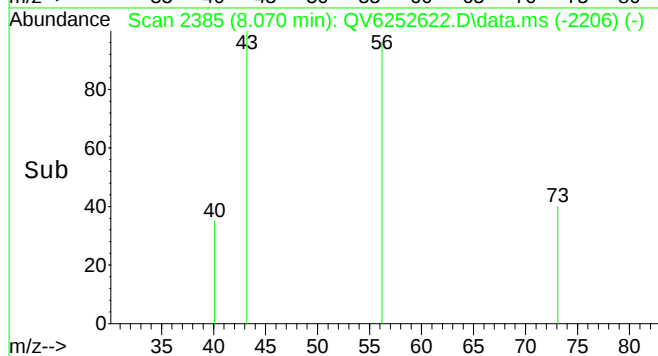
#56
Toluene-d8 (Surr)
Concen: 10.42 ppb
RT: 7.236 min Scan# 2085
Delta R.T. -0.000 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

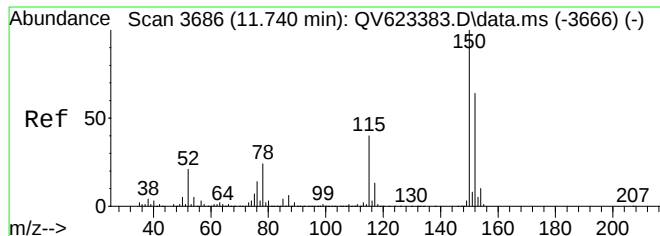
Tgt Ion: 98 Resp: 853616
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.6 44.2 91.8



#65
n-Butyl Acetate
Concen: 0.21 ppb m
RT: 8.070 min Scan# 2385
Delta R.T. -0.003 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

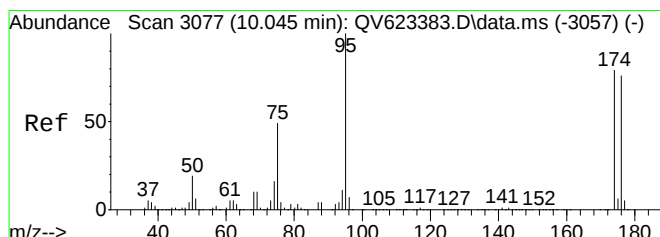
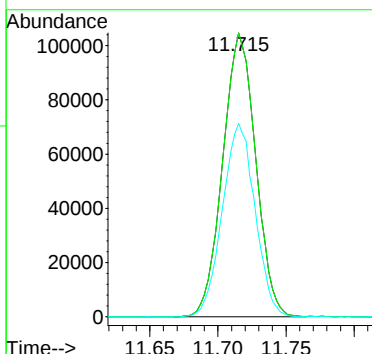
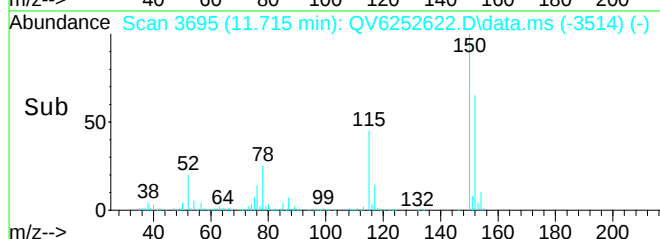
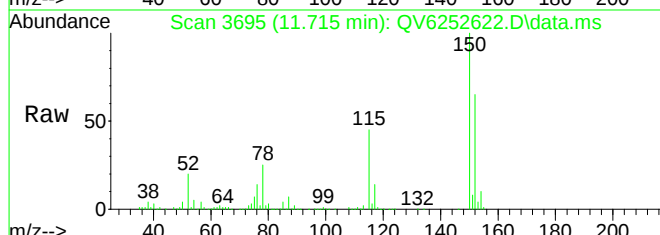
Tgt Ion: 56 Resp: 536
Ion Ratio Lower Upper
56 100
43 97.0 65.0 135.0
56 61.4 45.5 94.5
73 0.0 19.5 40.5#





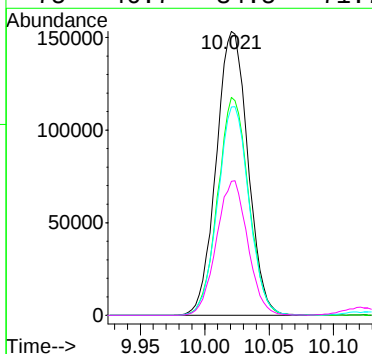
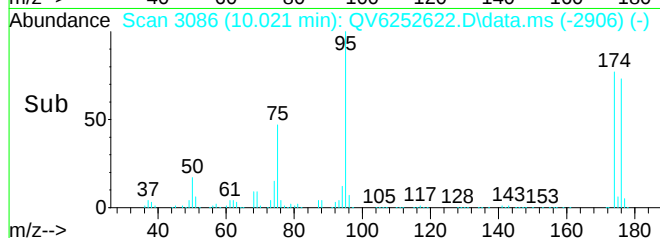
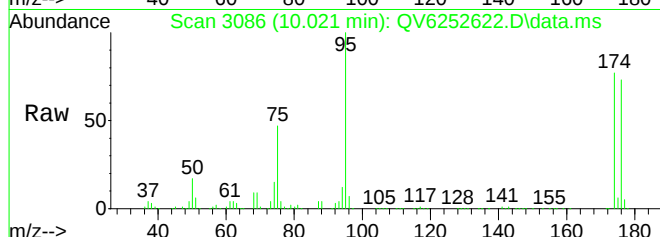
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.715 min Scan# 3695
Delta R.T. 0.003 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

Tgt Ion: 152 Resp: 176358
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 67.5 29.8 89.3



#79
p-Bromofluorobenzene (SURR)
Concen: 10.42 ppb
RT: 10.021 min Scan# 3086
Delta R.T. -0.000 min
Lab File: QV6252622.D
Acq: 20 Oct 2023 5:19 am

Tgt Ion: 95 Resp: 262426
Ion Ratio Lower Upper
95 100
174 75.0 62.5 129.9
176 72.6 60.7 126.1
75 46.7 34.5 71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FB01_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Water Laboratory ID: 23J1154-06 File ID: QV6252585.D
 Sampled: 10/17/23 15:45 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 14:09
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	4.46	
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FB01_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Water Laboratory ID: 23J1154-06 File ID: QV6252585.D
 Sampled: 10/17/23 15:45 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 14:09
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.5	105	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.97	99.7	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	168689	5.7	185237	5.697	
ISTD: Chlorobenzene-d5	635822	8.735	699711	8.732	
ISTD: 1,2-Dichlorobenzene-d4	198993	11.715	219846	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252585.D
 Acq On : 19 Oct 2023 2:09 pm
 InstName : QV0A6
 Operator : JTG
 Sample : 23J1154-06
 Misc : QBQV6101923A 8260 B
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 19 23:43:55 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

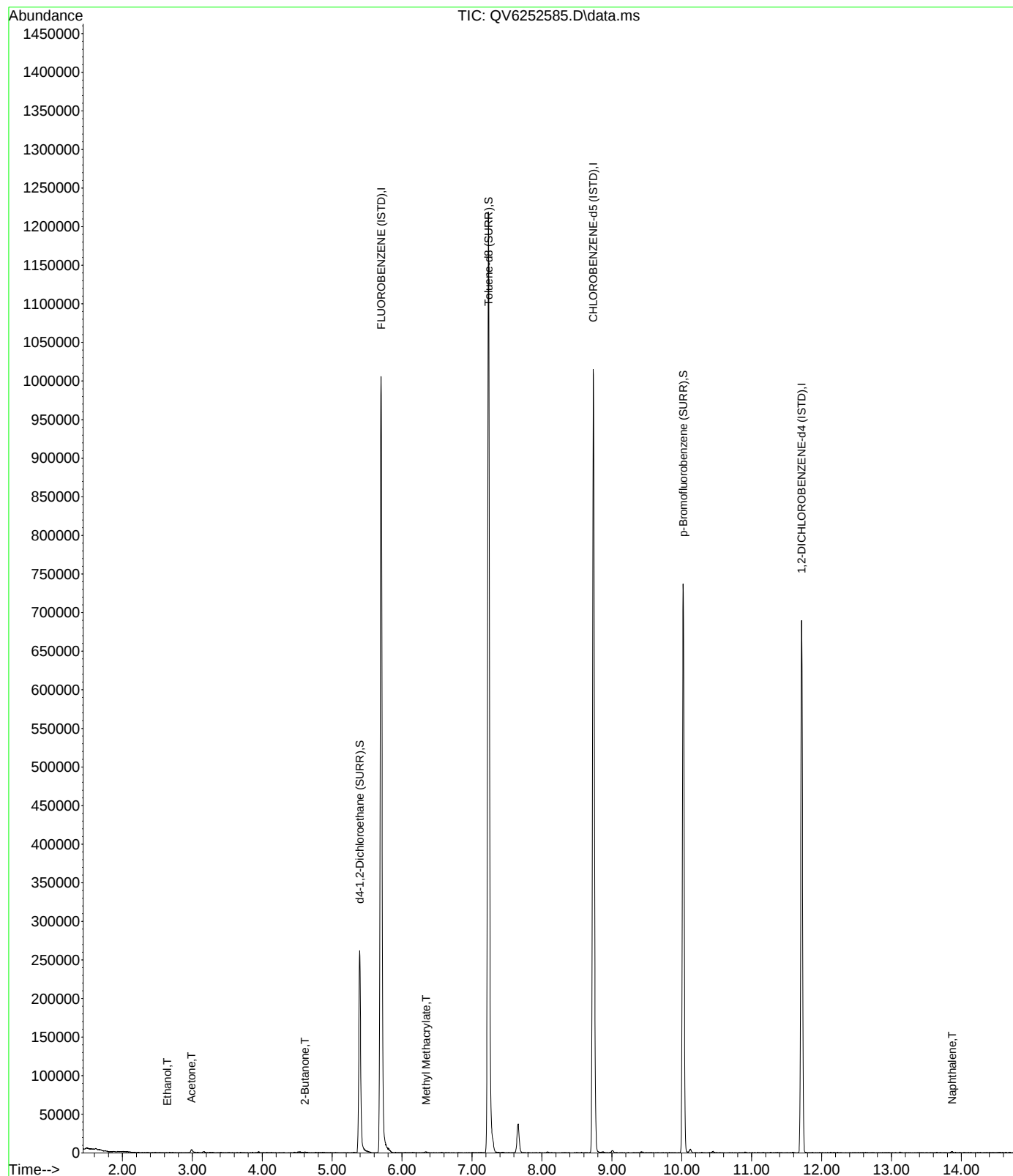
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

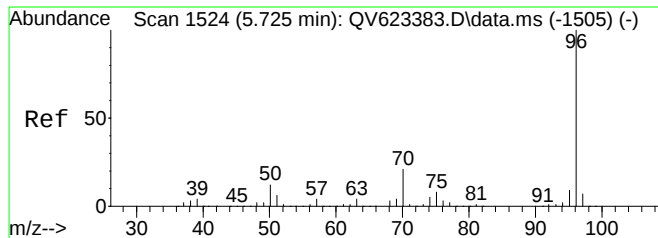
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	168689	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	635822	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.715	152	198993	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	173094	10.52	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	105.20%	
56) Toluene-d8 (SURR)	7.238	98	901009	10.19	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	101.90%	
79) p-Bromofluorobenzene (...)	10.021	95	283315	9.97	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	99.70%	
Target Compounds						
9) Ethanol	2.639	45	17	0.67	ppb	Qvalue # 1
14) Acetone	2.987	43	5388m	4.46	ppb	
30) 2-Butanone	4.609	72	169m	0.29	ppb	
47) Methyl Methacrylate	6.342	69	615m	0.18	ppb	
109) Naphthalene	13.866	128	1823	0.17	ppb	# 80

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252585.D
Acq On : 19 Oct 2023 2:09 pm
InstName : QVOA6
Operator : JTG
Sample : 23J1154-06
Misc : QBQV6101923A 8260 B
ALS Vial : 12 Sample Multiplier: 1

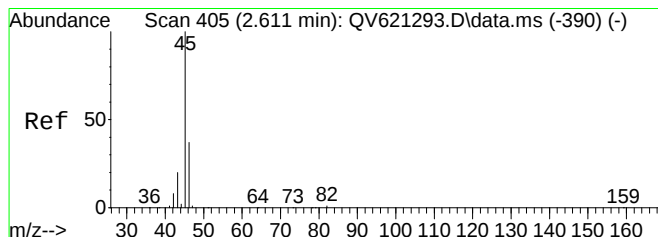
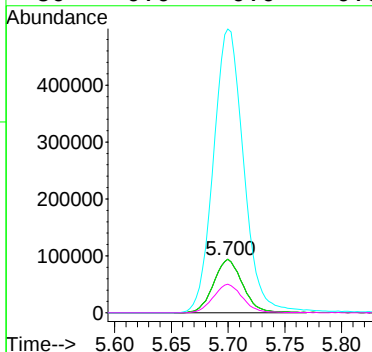
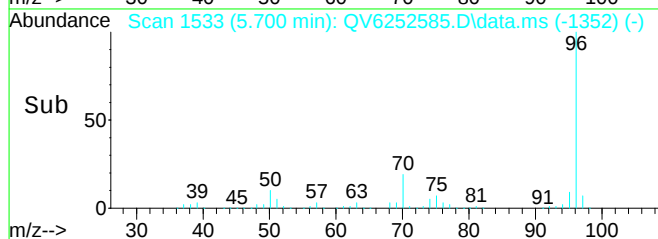
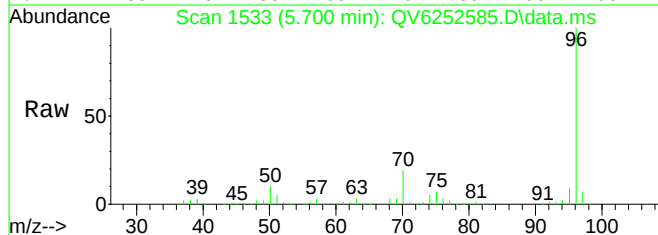
Quant Time: Oct 19 23:43:55 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





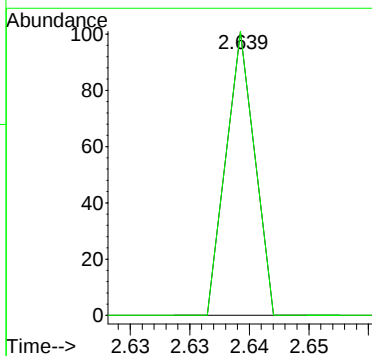
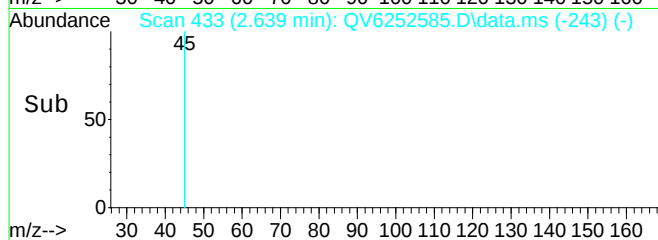
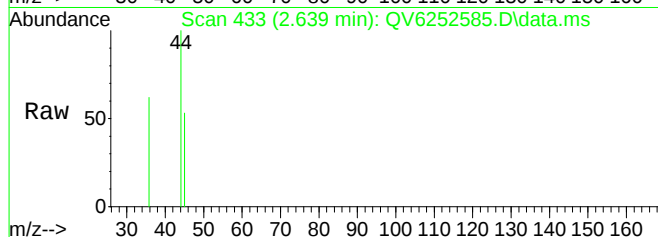
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252585.D
 Acq: 19 Oct 2023 2:09 pm

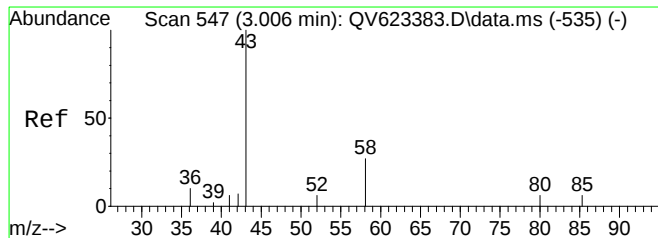
Tgt Ion: 70 Resp: 168689
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 553.9 341.1 708.3
 50 0.0 0.0 0.0



#9
 Ethanol
 Concen: 0.67 ppb
 RT: 2.639 min Scan# 433
 Delta R.T. 0.027 min
 Lab File: QV6252585.D
 Acq: 19 Oct 2023 2:09 pm

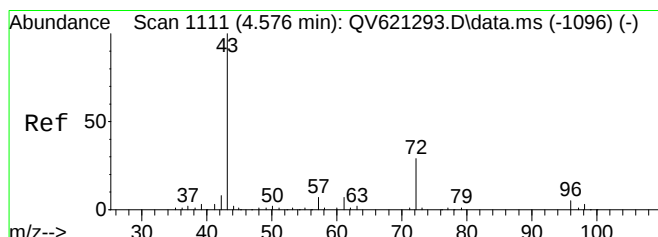
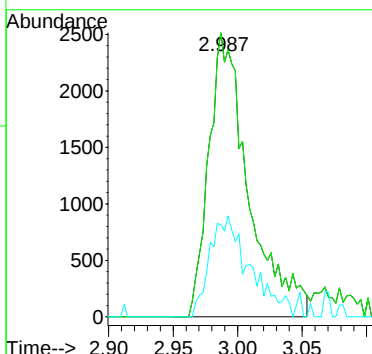
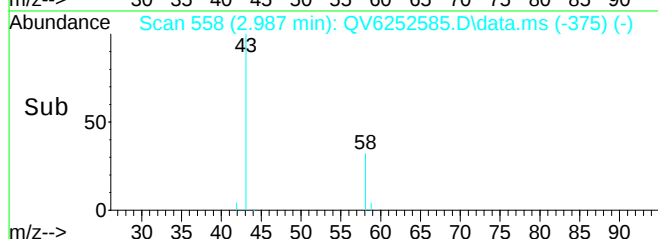
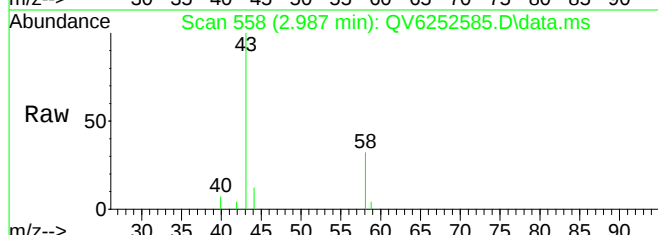
Tgt Ion: 45 Resp: 17
 Ion Ratio Lower Upper
 45 100
 45 100.0 16.3 48.9#





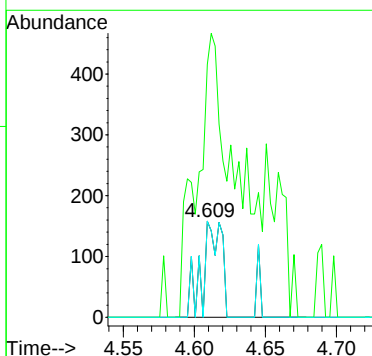
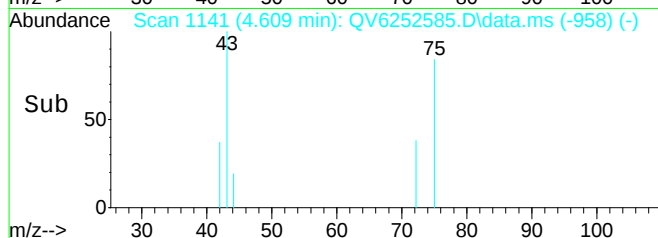
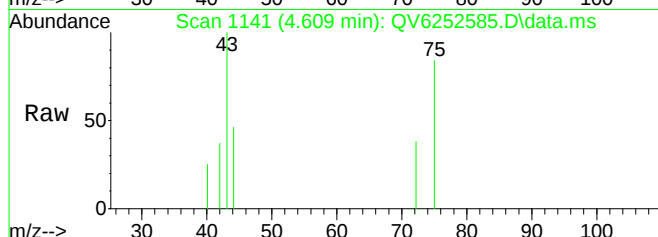
#14
Acetone
Concen: 4.46 ppb m
RT: 2.987 min Scan# 558
Delta R.T. 0.008 min
Lab File: QV6252585.D
Acq: 19 Oct 2023 2:09 pm

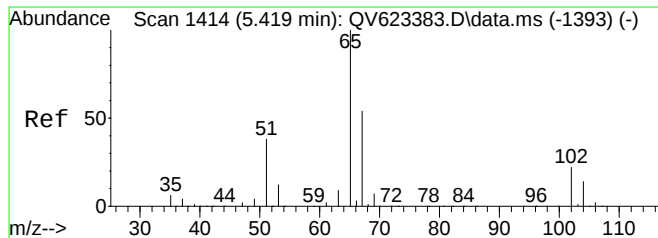
Tgt Ion: 43 Resp: 5388
Ion Ratio Lower Upper
43 100
43 95.9 80.0 120.0
58 14.3 6.0 18.1



#30
2-Butanone
Concen: 0.29 ppb m
RT: 4.609 min Scan# 1141
Delta R.T. 0.008 min
Lab File: QV6252585.D
Acq: 19 Oct 2023 2:09 pm

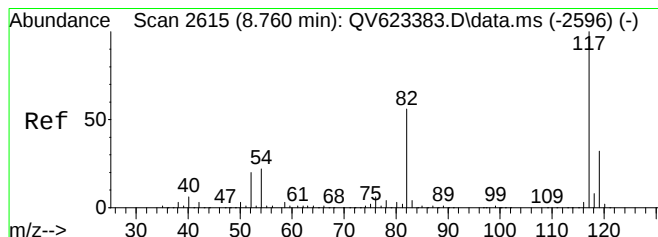
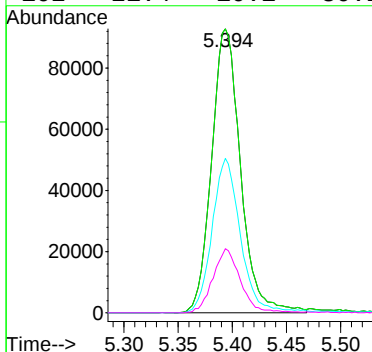
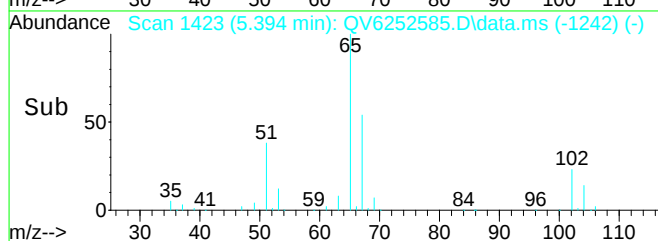
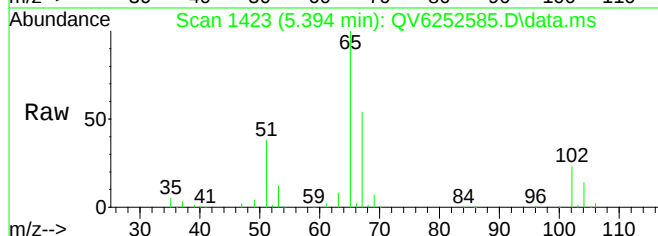
Tgt Ion: 72 Resp: 169
Ion Ratio Lower Upper
72 100
43 0.0 0.0 0.0
72 10.1 47.4 142.3#





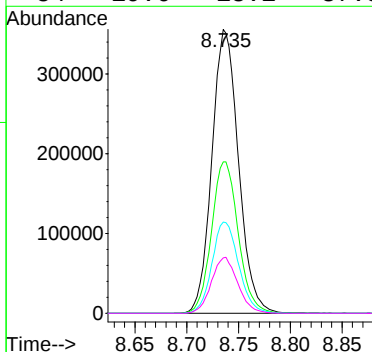
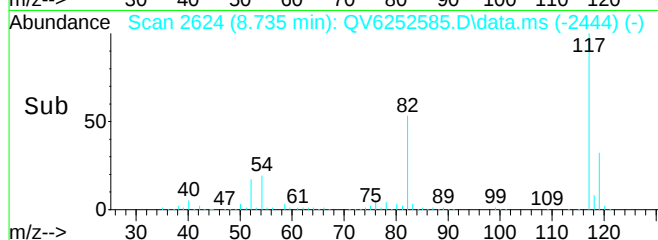
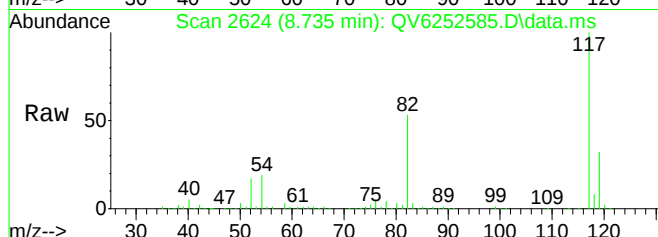
#38
d4-1,2-Dichloroethane (SURRE)
Concen: 10.52 ppb
RT: 5.394 min Scan# 1423
Delta R.T. 0.003 min
Lab File: QV6252585.D
Acq: 19 Oct 2023 2:09 pm

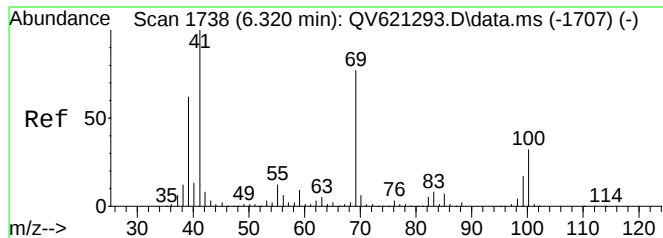
Tgt Ion: 65 Resp: 173094
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 53.2 34.0 70.6
102 21.4 10.1 30.1



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.735 min Scan# 2624
Delta R.T. 0.000 min
Lab File: QV6252585.D
Acq: 19 Oct 2023 2:09 pm

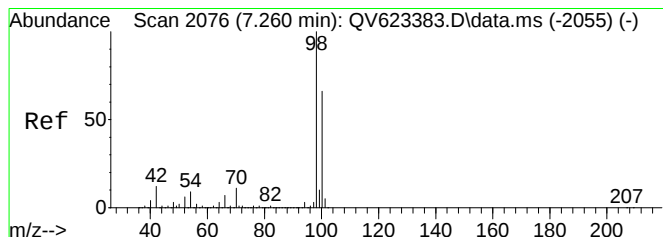
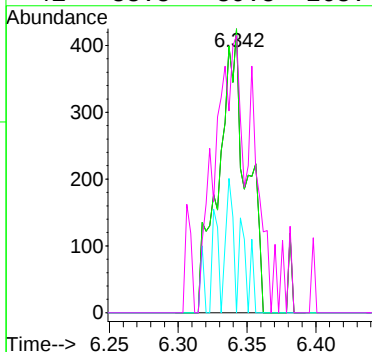
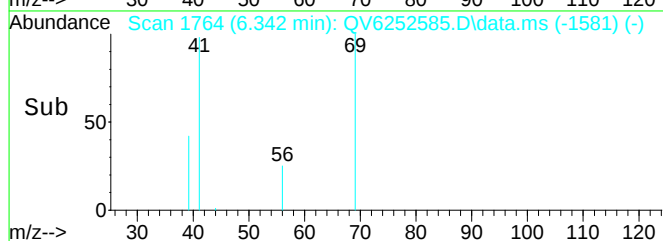
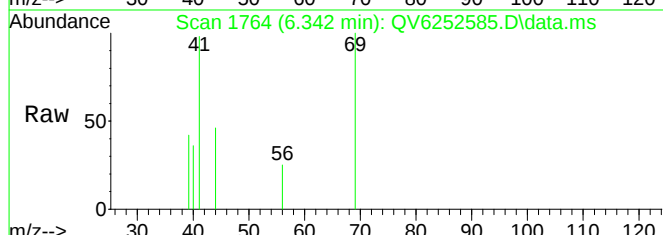
Tgt Ion: 117 Resp: 635822
Ion Ratio Lower Upper
117 100
82 53.6 34.5 71.7
119 32.3 20.9 43.3
54 19.6 18.1 37.5





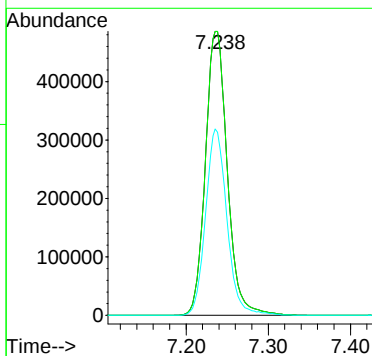
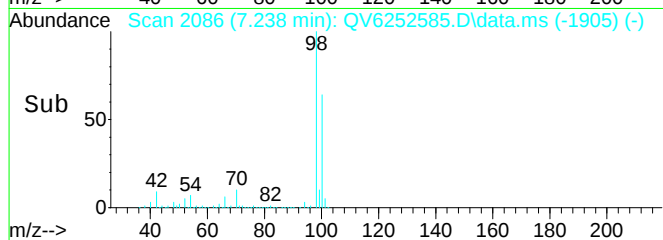
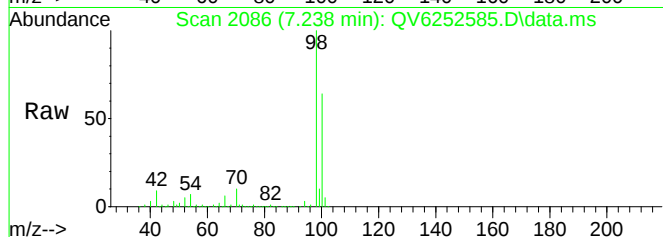
#47
Methyl Methacrylate
Concen: 0.18 ppb m
RT: 6.342 min Scan# 1764
Delta R.T. 0.008 min
Lab File: QV6252585.D
Acq: 19 Oct 2023 2:09 pm

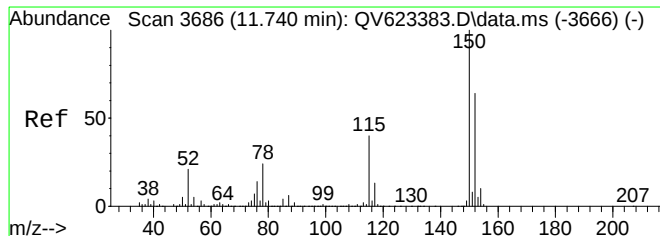
Tgt Ion: 69 Resp: 615
Ion Ratio Lower Upper
69 100
69 76.4 80.0 120.0#
100 12.0 18.9 56.5#
41 88.5 89.5 268.4#



#56
Toluene-d8 (SURRE)
Concen: 10.19 ppb
RT: 7.238 min Scan# 2086
Delta R.T. 0.002 min
Lab File: QV6252585.D
Acq: 19 Oct 2023 2:09 pm

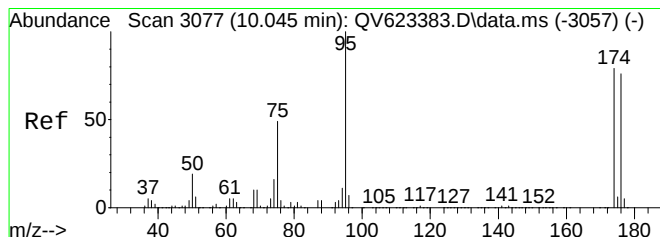
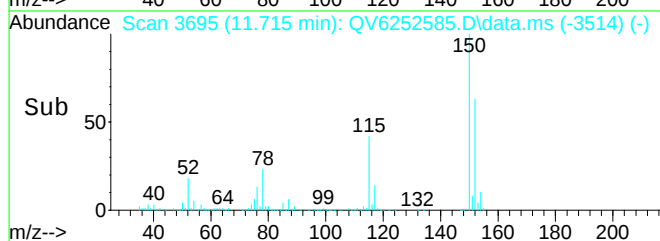
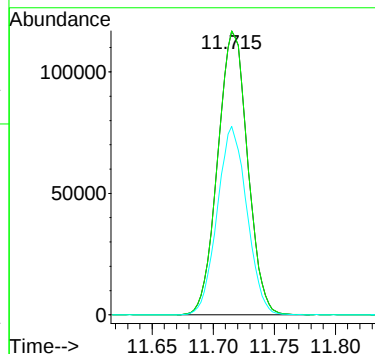
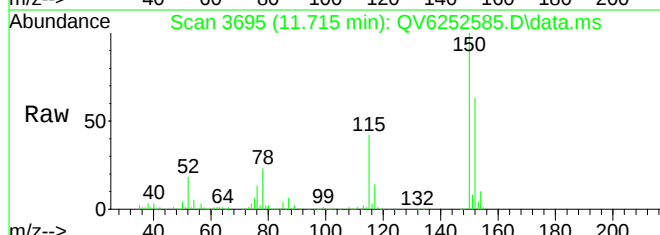
Tgt Ion: 98 Resp: 901009
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 64.0 44.2 91.8





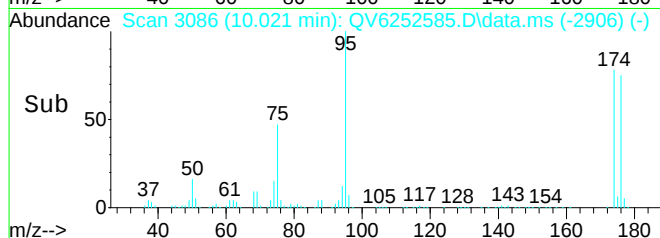
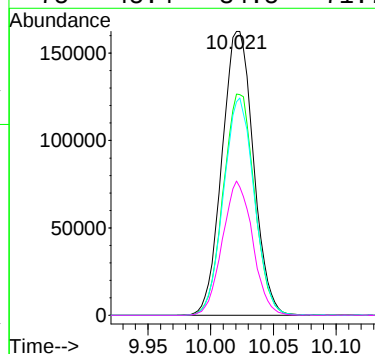
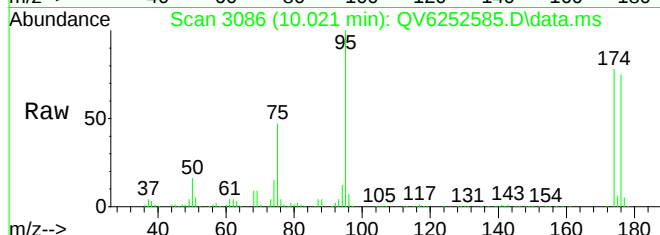
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.715 min Scan# 3695
Delta R.T. 0.003 min
Lab File: QV6252585.D
Acq: 19 Oct 2023 2:09 pm

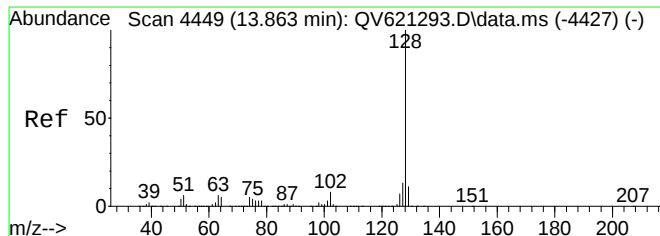
Tgt Ion: 152 Resp: 198993
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 65.7 29.8 89.3



#79
p-Bromofluorobenzene (SURR)
Concen: 9.97 ppb
RT: 10.021 min Scan# 3086
Delta R.T. -0.000 min
Lab File: QV6252585.D
Acq: 19 Oct 2023 2:09 pm

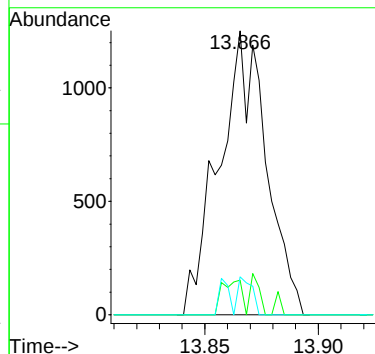
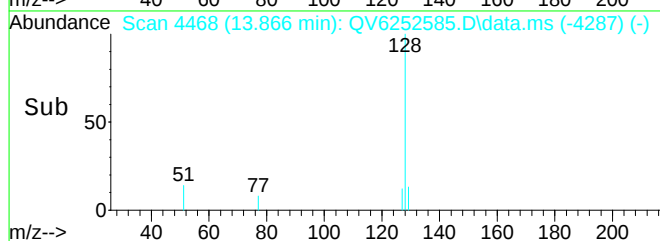
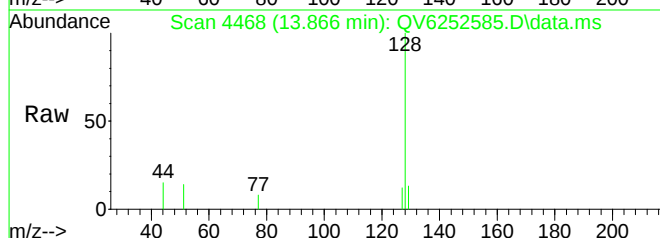
Tgt Ion: 95 Resp: 283315
Ion Ratio Lower Upper
95 100
174 77.1 62.5 129.9
176 74.9 60.7 126.1
75 45.4 34.5 71.7





#109
Naphthalene
Concen: 0.17 ppb
RT: 13.866 min Scan# 4468
Delta R.T. 0.003 min
Lab File: QV6252585.D
Acq: 19 Oct 2023 2:09 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
127	5.1	8.9	18.5#
129	3.9	7.3	15.3#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

TB01_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Water Laboratory ID: 23J1154-07 File ID: QV6252583.D
 Sampled: 10/17/23 15:50 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 13:19
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	1.85	J
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

TB01_101723

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Water Laboratory ID: 23J1154-07 File ID: QV6252583.D
 Sampled: 10/17/23 15:50 Prepared: 10/19/23 06:15 Analyzed: 10/19/23 13:19
 Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	0.750	J
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	178874	5.7	185237	5.697	
ISTD: Chlorobenzene-d5	666157	8.735	699711	8.732	
ISTD: 1,2-Dichlorobenzene-d4	202556	11.718	219846	11.715	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252583.D
 Acq On : 19 Oct 2023 1:19 pm
 InstName : QVOA6
 Operator : JTG
 Sample : 23J1154-07
 Misc : QBQV6101923A 8260 B
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 19 23:34:37 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

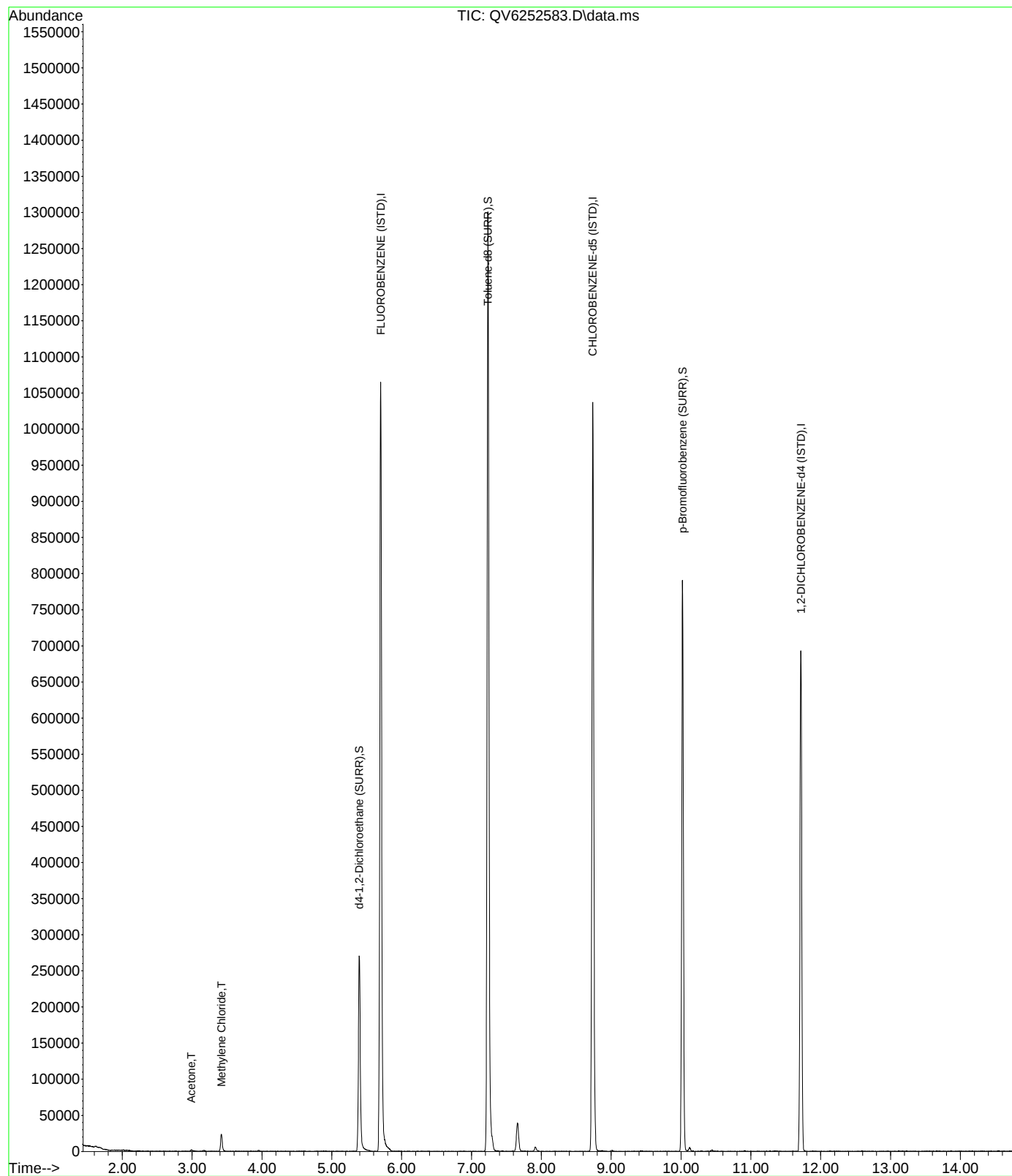
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

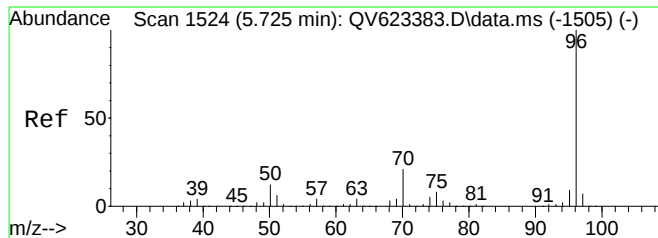
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	178874	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	666157	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.718	152	202556	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	179130	10.27	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	102.70%	
56) Toluene-d8 (SURR)	7.236	98	954381	10.30	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	103.00%	
79) p-Bromofluorobenzene (...)	10.021	95	296823	10.26	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	102.60%	
Target Compounds						
14) Acetone	2.987	43	2377m	1.85	ppb	Qvalue
20) Methylene Chloride	3.418	49	12388	0.75	ppb	# 73

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252583.D
Acq On : 19 Oct 2023 1:19 pm
InstName : QVOA6
Operator : JTG
Sample : 23J1154-07
Misc : QBQV6101923A 8260 B
ALS Vial : 10 Sample Multiplier: 1

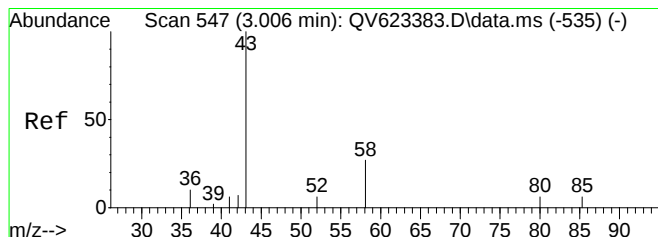
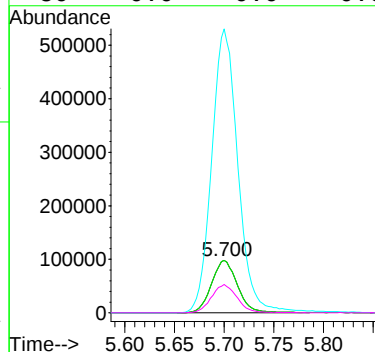
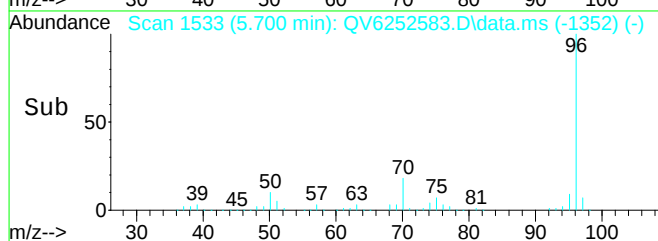
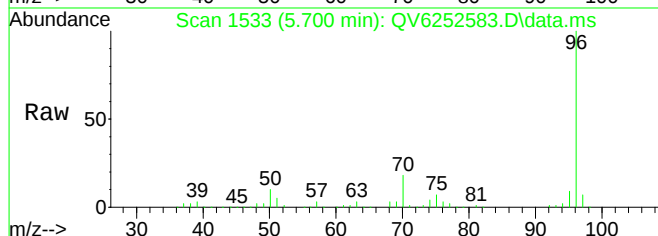
Quant Time: Oct 19 23:34:37 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





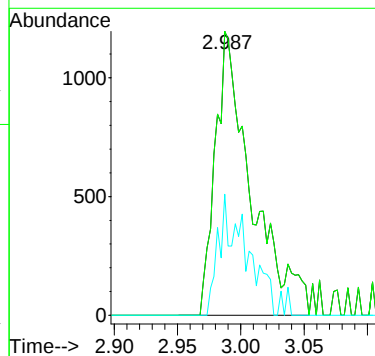
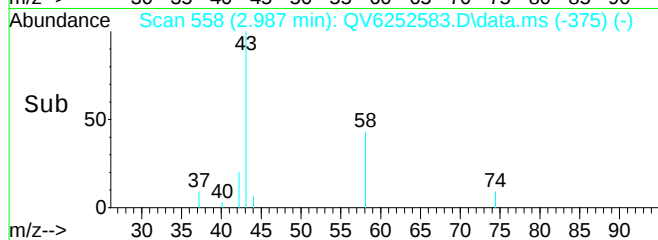
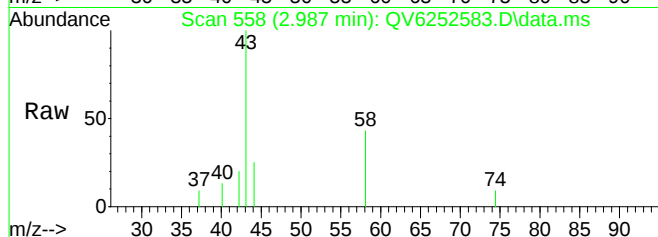
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252583.D
 Acq: 19 Oct 2023 1:19 pm

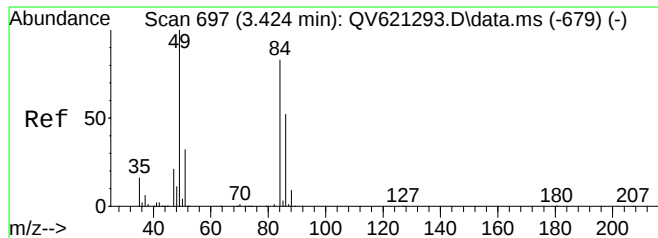
Tgt Ion: 70 Resp: 178874
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 545.0 341.1 708.3
 50 0.0 0.0 0.0



#14
 Acetone
 Concen: 1.85 ppb m
 RT: 2.987 min Scan# 558
 Delta R.T. 0.008 min
 Lab File: QV6252583.D
 Acq: 19 Oct 2023 1:19 pm

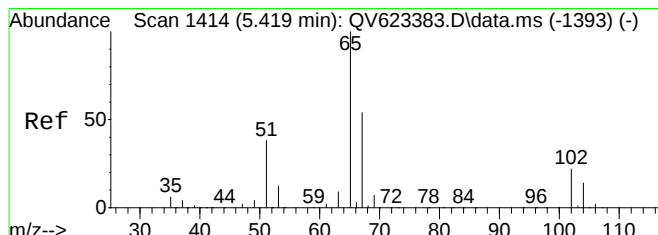
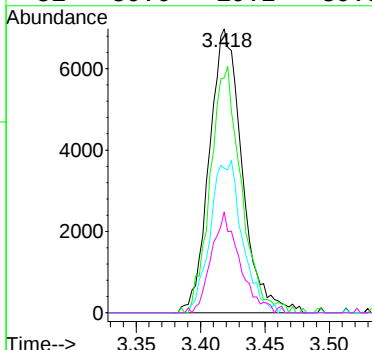
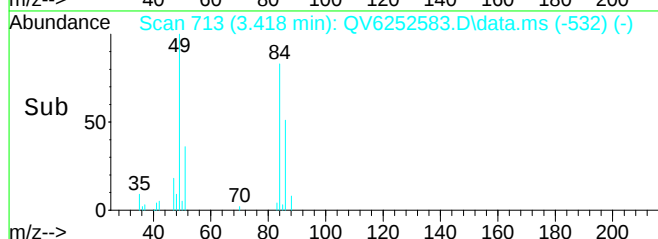
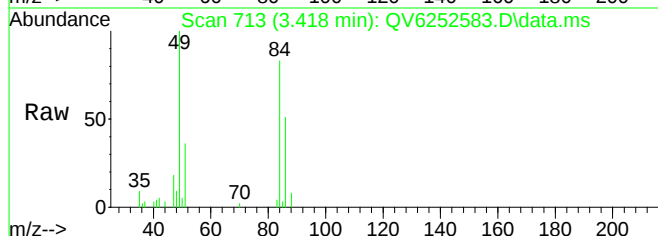
Tgt Ion: 43 Resp: 2377
 Ion Ratio Lower Upper
 43 100
 43 8.0 80.0 120.0#
 58 0.7 6.0 18.1#





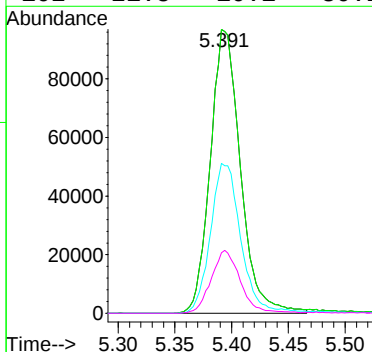
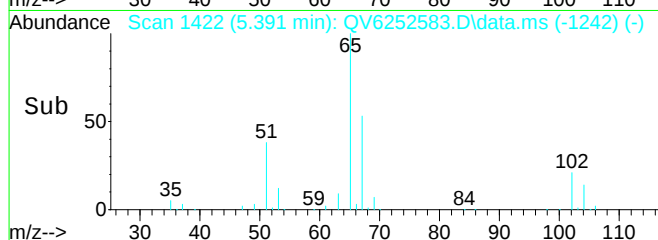
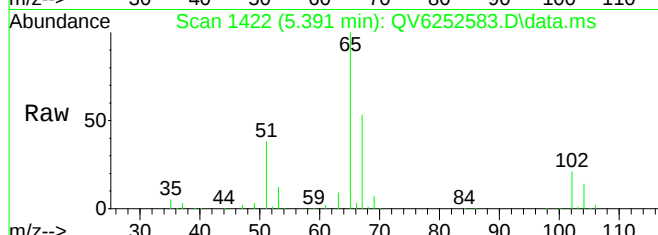
#20
Methylene Chloride
Concen: 0.75 ppb
RT: 3.418 min Scan# 713
Delta R.T. 0.002 min
Lab File: QV6252583.D
Acq: 19 Oct 2023 1:19 pm

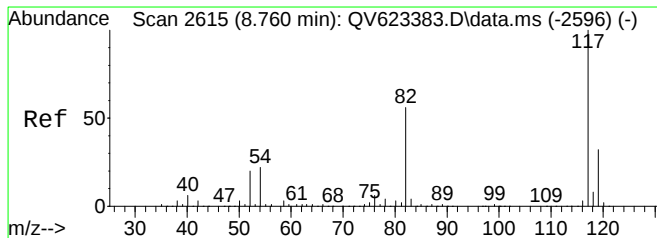
Tgt Ion: 49 Resp: 12388
Ion Ratio Lower Upper
49 100
84 81.4 35.0 72.8#
86 52.2 22.7 47.3#
51 30.6 19.2 39.8



#38
d4-1,2-Dichloroethane (SURR)
Concen: 10.27 ppb
RT: 5.391 min Scan# 1422
Delta R.T. 0.000 min
Lab File: QV6252583.D
Acq: 19 Oct 2023 1:19 pm

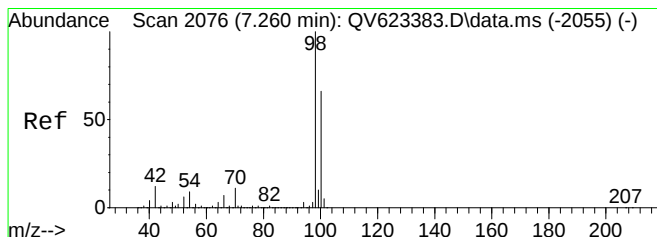
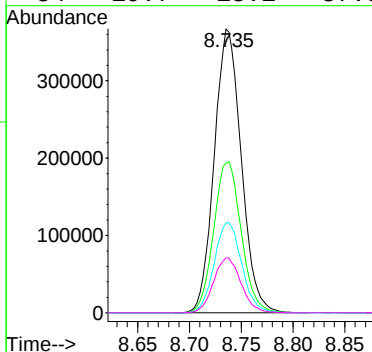
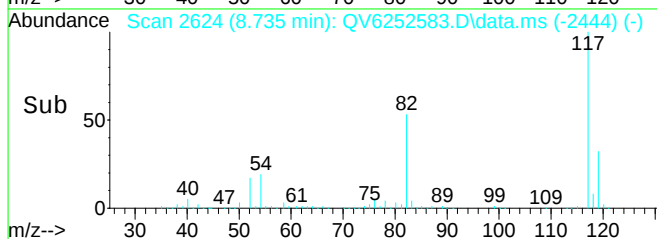
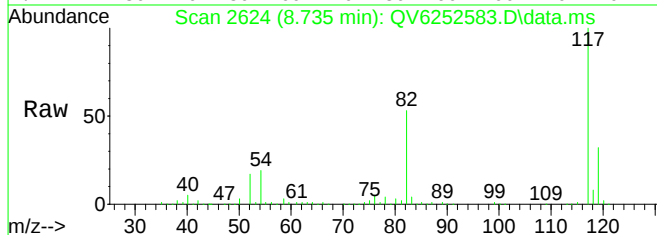
Tgt Ion: 65 Resp: 179130
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 53.1 34.0 70.6
102 21.5 10.1 30.1





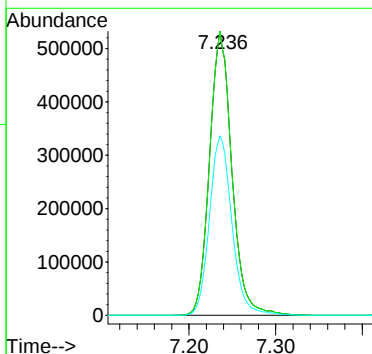
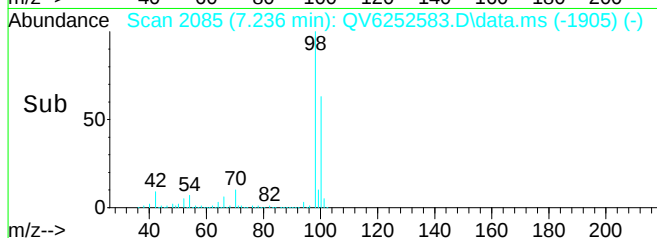
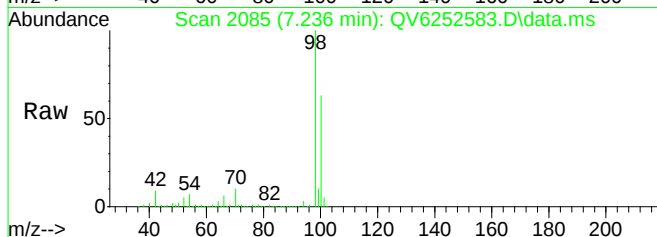
#44
 CHLOROBENZENE-d5 (ISTD)
 Concen: 10.00 ppb
 RT: 8.735 min Scan# 2624
 Delta R.T. 0.000 min
 Lab File: QV6252583.D
 Acq: 19 Oct 2023 1:19 pm

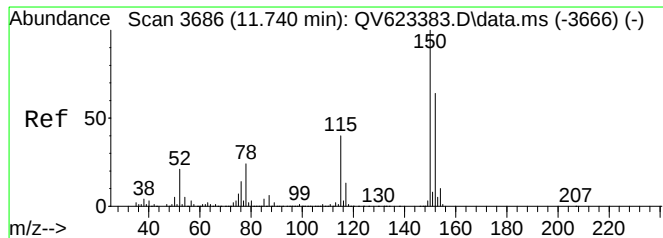
Tgt Ion:	117	Resp:	666157
Ion Ratio	Lower	Upper	
117	100		
82	54.1	34.5	71.7
119	32.4	20.9	43.3
54	19.7	18.1	37.5



#56
 Toluene-d8 (SURR)
 Concen: 10.30 ppb
 RT: 7.236 min Scan# 2085
 Delta R.T. -0.000 min
 Lab File: QV6252583.D
 Acq: 19 Oct 2023 1:19 pm

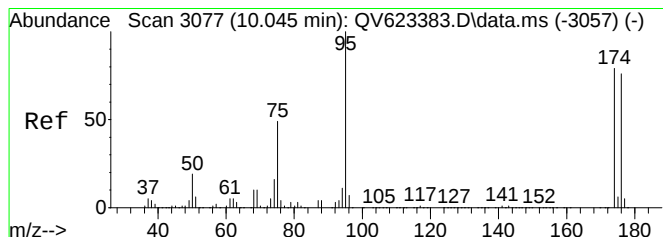
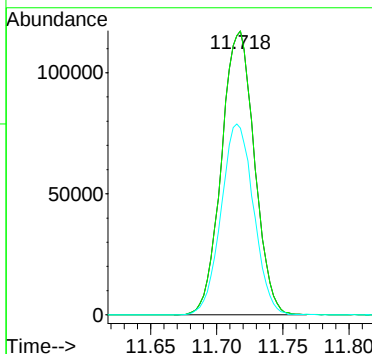
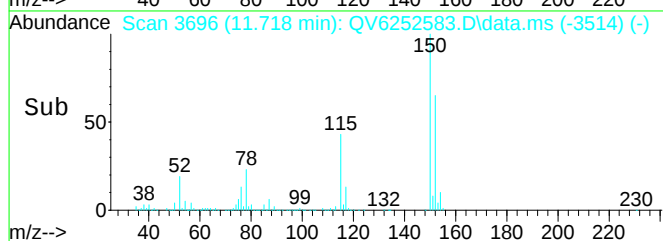
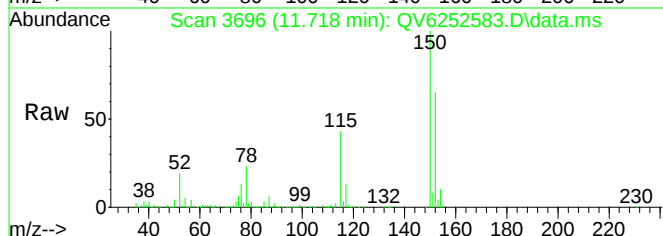
Tgt Ion:	98	Resp:	954381
Ion Ratio	Lower	Upper	
98	100		
98	100.0	65.0	135.0
100	63.7	44.2	91.8





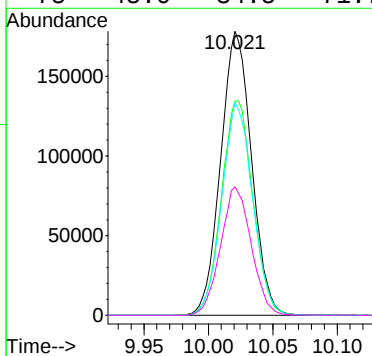
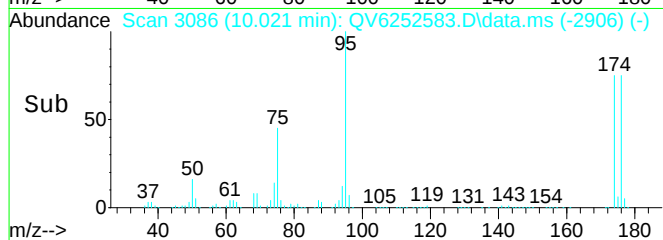
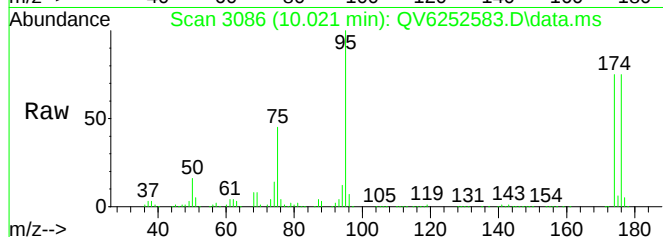
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.718 min Scan# 3696
Delta R.T. 0.006 min
Lab File: QV6252583.D
Acq: 19 Oct 2023 1:19 pm

Tgt Ion: 152 Resp: 202556
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 66.6 29.8 89.3



#79
p-Bromofluorobenzene (SURR)
Concen: 10.26 ppb
RT: 10.021 min Scan# 3086
Delta R.T. -0.000 min
Lab File: QV6252583.D
Acq: 19 Oct 2023 1:19 pm

Tgt Ion: 95 Resp: 296823
Ion Ratio Lower Upper
95 100
174 77.0 62.5 129.9
176 74.6 60.7 126.1
75 45.0 34.5 71.7



FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Calibration: SI30036Instrument: QVOA6Calibration Date: 09/26/23 16:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	0.5	0.1462611	2	0.1321688	4	0.1653711	10	0.1687027	20	0.1727201	40	0.1709408
1,1,1-Trichloroethane	0.5	1.253227	2	1.059958	4	1.353778	10	1.35364	20	1.380875	40	1.337016
1,1,2,2-Tetrachloroethane	0.5	0.2789875	2	0.2280522	4	0.279841	10	0.2719475	20	0.2697597	40	0.2722607
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.5	0.871214	2	0.6651889	4	0.8254075	10	0.8128262	20	0.8182683	40	0.7871183
1,1,2-Trichloroethane	0.5	0.1062241	2	0.0962101	4	0.114215	10	0.1106039	20	0.1117281	40	0.1097522
1,1-Dichloroethane	0.5	1.529452	2	1.289043	4	1.582159	10	1.539356	20	1.548698	40	1.45747
1,1-Dichloroethylene	0.5	1.26708	2	1.02045	4	1.261258	10	1.234876	20	1.231495	40	1.154428
1,1-Dichloropropylene	0.5	1.154156	2	0.9074769	4	1.168704	10	1.14643	20	1.157168	40	1.076508
1,2,3-Trichlorobenzene	0.5	0.1770705	2	0.1478137	4	0.1876223	10	0.1920761	20	0.2017108	40	0.212728
1,2,3-Trichloropropane	0.5	8.411444E-02	2	7.126983E-02	4	7.984895E-02	10	7.680831E-02	20	7.754791E-02	40	7.870927E-02
1,2,3-Trimethylbenzene	0.5	1.923998	2	1.589596	4	1.900948	10	1.825838	20	1.779451	40	1.697598
1,2,4,5-Tetramethylbenzene	0.5	1.441774	2	1.279078	4	1.66143	10	1.713797	20	1.730938	40	1.73196
1,2,4-Trichlorobenzene	0.5	0.2886655	2	0.2510097	4	0.3149455	10	0.3254587	20	0.3454751	40	0.3580279
1,2,4-Trimethylbenzene	0.5	2.185303	2	1.868612	4	2.269183	10	2.193115	20	2.1526	40	2.079028
1,2-Dibromo-3-chloropropane	0.5	2.317926E-02	2	2.008077E-02	4	2.766846E-02	10	0.0265658	20	2.911537E-02	40	3.137755E-02
1,2-Dibromoethane	0.5	0.0877927	2	7.857878E-02	4	9.642982E-02	10	9.590111E-02	20	0.0988415	40	9.872246E-02
1,2-Dichlorobenzene	0.5	0.9057835	2	0.7612926	4	0.9189169	10	0.8796605	20	0.8720051	40	0.8621312
1,2-Dichloroethane	0.5	0.7703233	2	0.6082022	4	0.7304876	10	0.7057354	20	0.7298813	40	0.7150462
1,2-Dichloropropane	0.5	0.200365	2	0.167687	4	0.2122887	10	0.1986847	20	0.1958227	40	0.1843053
1,3,5-Trimethylbenzene	0.5	2.245043	2	1.86613	4	2.320425	10	2.235186	20	2.170633	40	2.090973
1,3-Dichlorobenzene	0.5	1.177841	2	0.9612825	4	1.160596	10	1.12113	20	1.111333	40	1.100782
1,3-Dichloropropane	0.5	0.1866948	2	0.1562324	4	0.19166	10	0.185885	20	0.1867558	40	0.1835292
1,4-Dichlorobenzene	0.5	1.128137	2	0.9073295	4	1.11298	10	1.08673	20	1.092719	40	1.077923
1,4-Dioxane	10	7.213862E-05	40	3.454012E-04	80	4.400744E-04	200	4.476223E-04	400	4.677473E-04	1600	2.496662E-04
2,2-Dichloropropane	0.5	0.9761627	2	0.8581781	4	1.101499	10	1.136779	20	1.173661	40	1.142672
2-Butanone	0.5		2	2.202932E-02	4	2.724824E-02	10	2.950639E-02	20	3.067796E-02	40	3.015739E-02
2-Chlorotoluene	0.5	2.159495	2	1.708135	4	2.11004	10	1.970603	20	1.935544	40	1.878512
2-Hexanone	0.5	3.062284E-02	2	2.471557E-02	4	3.005657E-02	10	3.143249E-02	20	3.284724E-02	40	3.389871E-02
4-Chlorotoluene	0.5	2.319241	2	1.860518	4	2.293965	10	2.161904	20	2.110999	40	2.018762
4-Methyl-2-pentanone	0.5	5.341865E-02	2	3.224039E-02	4	4.399411E-02	10	4.967979E-02	20	4.663234E-02	40	5.166437E-02
Acetone	0.5	0.1094265	2	6.477791E-02	4	6.983009E-02	10	6.274726E-02	20	6.170549E-02	40	6.412461E-02

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford
 Client: Langan Engineering & Environmental Services (NYC)
 Calibration: SI30036

SDG: 23J1154
 Project: 170199901
 Instrument: QVOA6
 Calibration Date: 09/26/23 16:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrolein	0.5	2.868597E-02	2	3.119958E-02	4	3.809228E-02	10	3.802315E-02	20	4.149104E-02	80	2.109606E-02
Acrylonitrile	0.5	5.723201E-02	2	6.481239E-02	4	7.855021E-02	10	8.269581E-02	20	8.314006E-02	40	8.924063E-02
Allyl chloride	0.5	0.4634534	2	0.3399548	4	0.4789854	10	0.4568016	20	0.4753521	40	0.4744037
Benzene	0.5	3.427624	2	2.746528	4	3.341881	10	3.229838	20	3.299462	40	3.08864
Bromobenzene	0.5	0.9204796	2	0.7576826	4	0.9141681	10	0.861182	20	0.8400176	40	0.832929
Bromochloromethane	0.5	0.5306205	2	0.4463436	4	0.5543929	10	0.5292881	20	0.540597	40	0.4974736
Bromodichloromethane	0.5	0.1922855	2	0.1709912	4	0.2172648	10	0.2210358	20	0.2270819	40	0.2248615
Bromoform	0.5	0.0372596	2	3.391452E-02	4	4.486493E-02	10	5.085154E-02	20	5.598895E-02	40	6.023556E-02
Bromomethane	0.5	0.1980032	2	0.1728905	4	0.222251	10	0.2379184	20	0.2950758	40	0.314871
Carbon disulfide	0.5	2.219035	2	1.715219	4	2.181879	10	2.154309	20	2.195684	40	2.103531
Carbon tetrachloride	0.5	1.00191	2	0.8874471	4	1.140748	10	1.168085	20	1.202901	40	1.170065
Chlorobenzene	0.5	0.5432038	2	0.4466866	4	0.5401918	10	0.5270707	20	0.5225746	40	0.5086637
Chloroethane	0.5	0.742337	2	0.5401492	4	0.6413351	10	0.6179483	20	0.621327	40	0.5685867
Chloroform	0.5	1.477398	2	1.176896	4	1.422313	10	1.400623	20	1.433942	40	1.371722
Chloromethane	0.5	0.8614188	2	0.611891	4	0.7179168	10	0.6789224	20	0.6890794	40	0.6166023
cis-1,2-Dichloroethylene	0.5	1.330329	2	1.089055	4	1.337149	10	1.300061	20	1.317499	40	1.231464
cis-1,3-Dichloropropylene	0.5	0.2100677	2	0.1943058	4	0.2600993	10	0.2621279	20	0.2698512	40	0.2680974
Cyclohexane	0.5	3.359757	2	2.749321	4	3.40729	10	3.348401	20	3.325797	40	3.1395
Dibromochloromethane	0.5	0.1028697	2	9.171636E-02	4	0.1212659	10	0.1257403	20	0.1325831	40	0.1361578
Dibromomethane	0.5	7.531272E-02	2	6.438385E-02	4	8.192803E-02	10	0.0821309	20	8.159888E-02	40	8.045898E-02
Dichlorodifluoromethane	0.5	0.8471457	2	0.6457451	4	0.7656272	10	0.7449877	20	0.7487513	40	0.6826659
Diisopropyl ether (DIPE)	0.5	1.947708	2	1.580491	4	2.008478	10	2.003049	20	2.060287	40	1.940401
Ethyl Benzene	0.5	0.9665854	2	0.7984055	4	0.9831319	10	0.9611894	20	0.9506729	40	0.8964155
Ethyl tert-butyl ether (ETBE)	0.5	1.648394	2	1.362715	4	1.693863	10	1.739715	20	1.840543	40	1.786745
Hexachlorobutadiene	0.5	0.1984575	2	0.1664843	4	0.2128737	10	0.2134332	20	0.2227981	40	0.2277926
Iodomethane	0.5	0.4998356	2	0.4523077	4	0.657394	10	0.7581322	20	0.8594064	40	0.8548077
Isopropylbenzene	0.5	2.837548	2	2.3369	4	2.948283	10	2.792345	20	2.705403	40	2.606416
Methyl acetate	0.5	0.1607814	2	0.1508957	4	0.1673919	10	0.164149	20	0.169675	40	0.1672156
Methyl Methacrylate	0.5	4.551947E-02	2	4.319278E-02	4	5.081848E-02	10	5.274596E-02	20	5.630539E-02	40	5.647896E-02
Methyl tert-butyl ether (MTBE)	0.5	1.119732	2	0.9485707	4	1.174282	10	1.175453	20	1.23891	40	1.19698
Methylcyclohexane	0.5	0.4019564	2	0.3321491	4	0.4170732	10	0.4189617	20	0.4097457	40	0.3914151

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford
 Client: Langan Engineering & Environmental Services (NYC)
 Calibration: SI30036

SDG: 23J1154
 Project: 170199901
 Instrument: QVOA6
 Calibration Date: 09/26/23 16:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methylene chloride	0.5	1.008627	2	0.8257029	4	0.9935592	10	0.9440232	20	0.9525932	40	0.8833815
Naphthalene	0.5	0.3813825	2	0.308206	4	0.4031263	10	0.438449	20	0.4642253	40	0.5006726
n-Butylbenzene	0.5	2.633116	2	2.078727	4	2.63493	10	2.567725	20	2.555356	40	2.413748
n-Propylbenzene	0.5	3.442957	2	2.808939	4	3.545785	10	3.41376	20	3.299815	40	3.17275
o-Xylene	0.5	0.7390602	2	0.6191934	4	0.7608288	10	0.7451762	20	0.7310432	40	0.6999385
p- & m- Xylenes	1	0.764976	4	0.6316833	8	0.7778697	20	0.7551645	40	0.7427569	80	0.6960976
p-Diethylbenzene	0.5	1.233997	2	1.006126	4	1.300417	10	1.303031	20	1.298087	40	1.265832
p-Ethyltoluene	0.5	2.550794	2	2.037465	4	2.574133	10	2.504181	20	2.454108	40	2.380166
p-Isopropyltoluene	0.5	2.387584	2	1.987151	4	2.490118	10	2.447744	20	2.412599	40	2.334198
sec-Butylbenzene	0.5	2.802779	2	2.332811	4	2.919662	10	2.861388	20	2.827564	40	2.722919
Styrene	0.5	0.4695503	2	0.4184377	4	0.5342649	10	0.536061	20	0.5374314	40	0.5194972
SURR: 1,2-Dichloroethane-d4	10	1.002603	10	0.9913744	10	0.9689045	10	0.9647105	10	0.9813721	10	0.9876359
SURR: p-Bromofluorobenzene	10	1.477242	10	1.445246	10	1.447376	10	1.409875	10	1.378285	10	1.388572
SURR: Toluene-d8	10	1.395895	10	1.389137	10	1.399217	10	1.390437	10	1.377096	10	1.375054
tert-Amyl alcohol (TAA)	5	7.920127E-03	20	7.37758E-03	40	7.611549E-03	100	7.809488E-03	200	9.451783E-03	400	1.058575E-02
tert-Amyl methyl ether (TAME)	0.5	1.204531	2	0.9816664	4	1.20153	10	1.266498	20	1.371335	40	1.365395
tert-Butyl alcohol (TBA)	0.5	4.925591E-02	2	2.261539E-02	4	2.805981E-02	10	0.0249995	20	1.782461E-02	40	1.627292E-02
tert-Butylbenzene	0.5	2.201552	2	1.83333	4	2.32334	10	2.256701	20	2.244579	40	2.193118
Tetrachloroethylene	0.5	0.2428186	2	0.1960416	4	0.2408791	10	0.2370135	20	0.2327278	40	0.2268632
Tetrahydrofuran	0.5	4.127981E-02	2	4.705793E-02	4	0.0580018	10	5.820678E-02	20	5.843837E-02	40	5.740711E-02
Toluene	0.5	0.9626899	2	0.7560322	4	0.9285058	10	0.8954682	20	0.8765137	40	0.8318644
trans-1,2-Dichloroethylene	0.5	1.265681	2	1.026518	4	1.269012	10	1.202071	20	1.205139	40	1.126912
trans-1,3-Dichloropropylene	0.5	0.1365584	2	0.1255516	4	0.1691298	10	0.1797733	20	0.1901884	40	0.1945448
trans-1,4-dichloro-2-butene	0.5	0.247803	2	0.2105943	4	0.2414378	10	0.2434679	20	0.249368	40	0.2684094
Trichloroethylene	0.5	0.2360015	2	0.1925436	4	0.2383466	10	0.2327343	20	0.2295226	40	0.2214266
Trichlorofluoromethane	0.5	1.403374	2	1.078988	4	1.322265	10	1.291141	20	1.320426	40	1.224175
Vinyl acetate	0.5	0.4279108	2	0.3792559	4	0.4811265	10	0.5626969	20	0.550163	80	0.2730991
Vinyl Chloride	0.5	0.936562	2	0.7056621	4	0.8499447	10	0.8275357	20	0.8312628	40	0.767842

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Calibration: SI30036Instrument: QVOA6Calibration Date: 09/26/23 16:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	80	0.1868371	120	0.1826976	160	0.1723192						
1,1,1-Trichloroethane	80	1.468681	120	1.456013	160	1.393464						
1,1,2,2-Tetrachloroethane	80	0.289945	120	0.2891485	160	0.2791079						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	80	0.8421733	120	0.8197455	160	0.7660516						
1,1,2-Trichloroethane	80	0.1217218	120	0.121132	160	0.1158134						
1,1-Dichloroethane	80	1.527212	120	1.463965	160	1.361221						
1,1-Dichloroethylene	80	1.183113	120	1.118487	160	1.022096						
1,1-Dichloropropylene	80	1.121853	120	1.049267	160	0.9476132						
1,2,3-Trichlorobenzene	80	0.2435314	120	0.2533877	160	0.2445224						
1,2,3-Trichloropropane	80	8.608082E-02	120	8.986665E-02	160	8.917083E-02						
1,2,3-Trimethylbenzene	80	1.767572	120	1.800279	160	1.761135						
1,2,4,5-Tetramethylbenzene	80	1.877952	120	1.929048	160	1.900813						
1,2,4-Trichlorobenzene	80	0.4115264	120	0.4337317	160	0.4299317						
1,2,4-Trimethylbenzene	80	2.152956	120	2.182455	160	2.128469						
1,2-Dibromo-3-chloropropane	80	0.0358575	120	3.773923E-02	160	3.777504E-02						
1,2-Dibromoethane	80	0.1107652	120	0.1116057	160	0.1074063						
1,2-Dichlorobenzene	80	0.9122937	120	0.9117204	160	0.8619908						
1,2-Dichloroethane	80	0.800978	120	0.7933667	160	0.7495089						
1,2-Dichloropropane	80	0.1835133	120	0.1679102	160	0.1516174						
1,3,5-Trimethylbenzene	80	2.152659	120	2.159095	160	2.088356						
1,3-Dichlorobenzene	80	1.166763	120	1.195364	160	1.166698						
1,3-Dichloropropane	80	0.2034211	120	0.2006935	160	0.1924643						
1,4-Dichlorobenzene	80	1.167114	120	1.211413	160	1.210564						
1,4-Dioxane	3200	2.627316E-04	4800	2.38347E-04	6400	2.281854E-04						
2,2-Dichloropropane	80	1.247946	120	1.225847	160	1.14847						
2-Butanone	80	3.363533E-02	120	3.284446E-02	160	3.053679E-02						
2-Chlorotoluene	80	1.920227	120	1.932444	160	1.888458						
2-Hexanone	80	3.986222E-02	120	4.034863E-02	160	3.874852E-02						
4-Chlorotoluene	80	2.012098	120	1.970989	160	1.871311						
4-Methyl-2-pentanone	80	6.095689E-02	120	6.181948E-02	160	5.989364E-02						
Acetone	80	6.879586E-02	120	6.674252E-02	160	6.207831E-02						

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Calibration: SI30036Instrument: QVOA6Calibration Date: 09/26/23 16:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrolein	160	2.509101E-02	240	2.580385E-02	320	2.470813E-02						
Acrylonitrile	80	0.1002468	120	0.1032785	160	9.752457E-02						
Allyl chloride	80	0.4880061	120	0.4660772	160	0.4378679						
Benzene	80	3.253851	120	3.114596	160	2.887621						
Bromobenzene	80	0.8721217	120	0.8761707	160	0.8599204						
Bromochloromethane	80	0.5257309	120	0.5055389	160	0.4677094						
Bromodichloromethane	80	0.2505603	120	0.2503228	160	0.241881						
Bromoform	80	7.219876E-02	120	7.422848E-02	160	0.0730348						
Bromomethane	80	0.4143853	120	0.454544	160	0.4619488						
Carbon disulfide	80	2.289369	120	2.261341	160	2.145218						
Carbon tetrachloride	80	1.284303	120	1.254142	160	1.169624						
Chlorobenzene	80	0.5478967	120	0.5420029	160	0.5175383						
Chloroethane	80	0.5970556	120	0.584207	160	0.5512164						
Chloroform	80	1.489066	120	1.473102	160	1.398596						
Chloromethane	80	0.6922353	120	0.7235555	160	0.7227257						
cis-1,2-Dichloroethylene	80	1.271844	120	1.192264	160	1.085793						
cis-1,3-Dichloropropylene	80	0.2972562	120	0.2960184	160	0.283409						
Cyclohexane	80	3.219573	120	3.020584	160	2.725514						
Dibromochloromethane	80	0.1566378	120	0.1597169	160	0.1554328						
Dibromomethane	80	0.0910259	120	9.151479E-02	160	8.811857E-02						
Dichlorodifluoromethane	80	0.7351398	120	0.7330368	160	0.7006473						
Diisopropyl ether (DIPE)	80	2.03683	120	1.903941	160	1.719139						
Ethyl Benzene	80	0.9000648	120	0.8321125	160	0.7552782						
Ethyl tert-butyl ether (ETBE)	80	1.974824	120	1.914592	160	1.791692						
Hexachlorobutadiene	80	0.2627031	120	0.2853142	160	0.2926839						
Iodomethane	80	0.9210422	120	0.9121256	160	0.879038						
Isopropylbenzene	80	2.69364	120	2.719483	160	2.648498						
Methyl acetate	80	0.1885359	120	0.1866118	160	0.1719937						
Methyl Methacrylate	80	6.448419E-02	120	6.516675E-02	160	6.262634E-02						
Methyl tert-butyl ether (MTBE)	80	1.349677	120	1.294496	160	1.20522						
Methylcyclohexane	80	0.4078795	120	0.3859774	160	0.3549947						

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Calibration: SI30036

Instrument: QVOA6

Calibration Date: 09/26/23 16:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methylene chloride	80	0.9469697	120	0.9193372	160	0.8584582						
Naphthalene	80	0.5685945	120	0.5923023	160	0.5725816						
n-Butylbenzene	80	2.383177	120	2.265053	160	2.088425						
n-Propylbenzene	80	3.202236	120	3.158527	160	3.039765						
o-Xylene	80	0.7117679	120	0.6727144	160	0.6231323						
p- & m- Xylenes	160	0.6896296	240	0.632406	320	0.5698637						
p-Diethylbenzene	80	1.310162	120	1.307526	160	1.261604						
p-Ethyltoluene	80	2.461157	120	2.504625	160	2.447322						
p-Isopropyltoluene	80	2.474945	120	2.506557	160	2.444732						
sec-Butylbenzene	80	2.821567	120	2.833454	160	2.744592						
Styrene	80	0.5387713	120	0.5150513	160	0.4810057						
SURR: 1,2-Dichloroethane-d4	10	0.9848094	10	0.9660851	10	0.9277403						
SURR: p-Bromofluorobenzene	10	1.380758	10	1.447522	10	1.478023						
SURR: Toluene-d8	10	1.384372	10	1.397404	10	1.411537						
tert-Amyl alcohol (TAA)	800	1.337264E-02	1200	1.284375E-02	1600	0.0122851						
tert-Amyl methyl ether (TAME)	80	1.558753	120	1.539177	160	1.456342						
tert-Butyl alcohol (TBA)	80	1.997149E-02	120	2.020502E-02	160	2.133518E-02						
tert-Butylbenzene	80	2.327833	120	2.364767	160	2.341149						
Tetrachloroethylene	80	0.2519408	120	0.255193	160	0.2497875						
Tetrahydrofuran	80	0.0679959	120	0.0674663	160	6.484814E-02						
Toluene	80	0.8731648	120	0.8450169	160	0.7939037						
trans-1,2-Dichloroethylene	80	1.172987	120	1.116443	160	1.028027						
trans-1,3-Dichloropropylene	80	0.2217935	120	0.2227392	160	0.2138733						
trans-1,4-dichloro-2-butene	80	0.3095382	120	0.3264234	160	0.3244712						
Trichloroethylene	80	0.2409748	120	0.2401224	160	0.2328194						
Trichlorofluoromethane	80	1.318917	120	1.310838	160	1.249912						
Vinyl acetate	160	0.2946075	240	0.2765266	320	0.2494097						
Vinyl Chloride	80	0.8094638	120	0.8021379	160	0.7646801						

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Calibration: SI30036Instrument: QVOA6Calibration Date: 09/26/23 16:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.1664465	10.32461	8.860778	0.0191135			20	
1,1,1-Trichloroethane	1.339628	9.176025	5.089222	3.210954E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.2732278	6.723584	10.16	9.275297E-03			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.8008882	7.369589	2.958889	5.092325E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.1119334	6.970958	7.731667	2.397644E-02			SPCC (0.1)	
1,1-Dichloroethane	1.47762	6.537008	4.085667	3.231239E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.16592	8.187599	2.946	4.555776E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.08102	8.880314	5.238	0.0304132			20	
1,2,3-Trichlorobenzene	0.2067181	17.06153	14.11989	1.456797E-02			20	
1,2,3-Trichloropropane	8.149078E-02	7.632212	10.22478	2.079492E-02			20	
1,2,3-Trimethylbenzene	1.782935	5.655965	11.369	3.081963E-02			20	
1,2,4,5-Tetramethylbenzene	1.69631	12.70958	12.59033	1.917192E-02			20	
1,2,4-Trichlorobenzene	0.3509747	18.20319	13.57133	6.105202E-03			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.134636	5.261982	10.90933	2.725401E-02			20	
1,2-Dibromo-3-chloropropane	2.992877E-02	21.11337	12.62789	1.918485E-02		0.9989524	SPCC (0.05)	
1,2-Dibromoethane	9.844928E-02	10.91756	8.252333	0.021381			SPCC (0.1)	
1,2-Dichlorobenzene	0.8761994	5.546942	11.73867	3.111485E-02			SPCC (0.4)	
1,2-Dichloroethane	0.7337255	7.856281	5.464667	3.263297E-02			SPCC (0.1)	
1,2-Dichloropropane	0.1846883	10.47325	6.291111	1.085765E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.147611	6.01879	10.49267	1.629365E-02			20	
1,3-Dichlorobenzene	1.129088	6.257503	11.22467	1.978948E-02			SPCC (0.6)	
1,3-Dichloropropane	0.1874818	7.22225	7.900111	5.737614E-03			20	
1,4-Dichlorobenzene	1.110546	8.236802	11.34167	3.114357E-02			SPCC (0.5)	
1,4-Dioxane	3.057682E-04	42.65962	6.365333	5.269566E-02		0.996428	0.99	
2,2-Dichloropropane	1.112357	11.06143	4.621667	2.834335E-02			20	
2-Butanone	2.957948E-02	12.25696	4.599	8.587555E-02			SPCC (0.1)	
2-Chlorotoluene	1.944829	6.76512	10.385	2.860924E-02			20	
2-Hexanone	3.361475E-02	15.49266	7.95	6.826359E-02			SPCC (0.1)	
4-Chlorotoluene	2.068865	8.043542	10.52178	2.502598E-02			20	
4-Methyl-2-pentanone	5.114441E-02	18.59062	7.101333	4.312159E-02			SPCC (0.1)	
Acetone	7.002539E-02	21.49492	2.980667	0.2151887		0.9986141	SPCC (0.1)	
Acrolein	3.046567E-02	23.5585	2.847667	0.14376		0.9961437	0.99	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Calibration: SI30036Instrument: QVOA6Calibration Date: 09/26/23 16:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acrylonitrile	8.408011E-02	18.6293	3.621889	9.176177E-02			20	
Allyl chloride	0.4534336	9.911911	3.295333	6.112858E-02			20	
Benzene	3.154449	6.998235	5.42	2.559029E-02			SPCC (0.5)	
Bromobenzene	0.859408	5.610588	10.17256	1.546368E-02			20	
Bromochloromethane	0.510855	6.90782	4.833778	3.360619E-02			20	
Bromodichloromethane	0.2218094	11.88003	6.538	3.219533E-02			SPCC (0.2)	
Bromoform	0.0558419	27.53978	9.643334	2.550262E-02		0.9979804	SPCC (0.1)	
Bromomethane	0.3079876	36.17866	2.090667	5.227651E-02		0.9975353	SPCC (0.1)	
Carbon disulfide	2.140621	7.923293	3.164667	0.0227104			SPCC (0.1)	
Carbon tetrachloride	1.142136	10.86487	5.24	4.832907E-02			SPCC (0.1)	
Chlorobenzene	0.5217588	5.964079	8.767222	1.176759E-02			SPCC (0.5)	
Chloroethane	0.6071291	10.00108	2.2	6.742923E-02			SPCC (0.1)	
Chloroform	1.404851	6.719188	4.925556	8.805981E-03			SPCC (0.2)	
Chloromethane	0.7015941	10.42142	1.686667	0.1563074			SPCC (0.1)	
cis-1,2-Dichloroethylene	1.239495	7.92219	4.613	3.492735E-02			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.260137	13.73253	6.966333	1.952008E-02			SPCC (0.2)	
Cyclohexane	3.143971	8.283301	5.197667	3.142427E-02			SPCC (0.1)	
Dibromochloromethane	0.1313467	18.18457	8.125334	2.547785E-02			SPCC (0.1)	
Dibromomethane	8.183029E-02	10.28605	6.372667	2.722347E-02			20	
Dichlorodifluoromethane	0.7337496	7.721353	1.498889	2.796004E-02			SPCC (0.1)	
Diisopropyl ether (DIPE)	1.911147	8.363819	4.120667	4.915453E-02			20	
Ethyl Benzene	0.8937618	9.123528	8.870889	3.728514E-02			SPCC (0.1)	
Ethyl tert-butyl ether (ETBE)	1.750343	10.14976	4.458667	5.341296E-02			20	
Hexachlorobutadiene	0.2313934	17.88048	13.74311	2.594497E-02			20	
Iodomethane	0.7548988	23.63982	3.087333	3.746215E-02		0.9991542	0.99	
Isopropylbenzene	2.698724	6.320728	9.827	1.191466E-02			SPCC (0.1)	
Methyl acetate	0.1696944	6.977347	3.283778	0.1410561			SPCC (0.1)	
Methyl Methacrylate	5.525981E-02	14.40073	6.332333	1.906708E-02			20	
Methyl tert-butyl ether (MTBE)	1.189258	9.530331	3.674889	0.1053913			SPCC (0.1)	
Methylcyclohexane	0.3911281	7.564513	6.280333	1.096333E-02			SPCC (0.1)	
Methylene chloride	0.9258502	6.541574	3.416	2.225064E-02			SPCC (0.1)	
Naphthalene	0.4699489	20.69556	13.86433	1.504835E-02		0.9981822	0.99	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYC)Project: 170199901Calibration: SI30036Instrument: QVOA6Calibration Date: 09/26/23 16:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
n-Butylbenzene	2.402251	9.081294	11.73067	2.328713E-02			20	
n-Propylbenzene	3.231615	6.973872	10.28844	2.685138E-02			20	
o-Xylene	0.7003172	7.411265	9.423778	1.859719E-02			SPCC (0.3)	
p- & m- Xylenes	0.6956053	10.32638	9.013333	2.824332E-02			SPCC (0.1)	
p-Diethylbenzene	1.254087	7.698088	11.70456	2.596788E-02			20	
p-Ethyltoluene	2.434883	6.568616	10.426	2.144206E-02			20	
p-Isopropyltoluene	2.387292	6.672735	11.271	2.304875E-02			20	
sec-Butylbenzene	2.762971	6.208108	11.094	1.673361E-02			20	
Styrene	0.5055634	8.169624	9.446222	8.922809E-03			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	0.9750261	2.230147	5.392667	2.886159E-02			20	
SURR: p-Bromofluorobenzene	1.4281	2.775366	10.02056	1.219246E-02			20	
SURR: Toluene-d8	1.391128	0.8232866	7.234222	2.286481E-02			20	
tert-Amyl alcohol (TAA)	9.91753E-03	24.4326	5.426556	0.3526794		0.9955156	0.99	
tert-Amyl methyl ether (TAME)	1.327247	13.90688	5.544	1.394208E-02			20	
tert-Butyl alcohol (TBA)	2.450443E-02	40.56706	3.516	0.1722926		0.998553	0.99	
tert-Butylbenzene	2.231819	7.245854	10.84211	2.437369E-02			20	
Tetrachloroethylene	0.2370295	7.554664	7.834	0.0237905			SPCC (0.2)	
Tetrahydrofuran	5.785579E-02	15.41265	4.866111	0.1127644			20	
Toluene	0.8625733	7.454535	7.304333	1.721307E-02			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.156977	7.801206	3.681556	5.147321E-02			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.1837947	19.11717	7.530556	0.0044714			SPCC (0.1)	
trans-1,4-dichloro-2-butene	0.269057	15.36686	10.22333	0.0240172			20	
Trichloroethylene	0.229388	6.570587	6.045333	1.936264E-02			SPCC (0.2)	
Trichlorofluoromethane	1.280004	7.077669	2.449667	3.718827E-02			SPCC (0.1)	
Vinyl acetate	0.3883107	31.63413	4.083889	7.518497E-02		0.995033	0.99	
Vinyl Chloride	0.8105657	7.941602	1.774667	7.420573E-02			SPCC (0.1)	

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251896.D
 Acq On : 26 Sep 2023 5:29 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL1
 Misc : QBQV6092623A
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 11:23:04 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	142927	10.00	ppb	# 0.00
44) CHLOROEBENZENE-d5 (ISTD)	8.735	117	554488	10.00	ppb	0.00
76) 1,2-DICHLOROEBENZENE-d4...	11.715	152	167391	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	143299	9.40	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	94.00%	
56) Toluene-d8 (SURR)	7.236	98	774007	10.53	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	105.30%	
79) p-Bromofluorobenzene (...)	10.018	95	247277	11.45	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	114.50%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	6054	0.59	ppb	# 1
3) Freon-22	1.485	51	13547m	1.34	ppb	
4) Chloromethane	1.691	50	6156	0.64	ppb	# 78
5) Vinyl Chloride	1.774	62	6693	0.68	ppb	# 50
6) Bromomethane	2.091	94	1415	0.25	ppb	# 63
7) Chloroethane	2.203	64	5305m	0.60	ppb	
8) Trichlorofluoromethane	2.447	101	10029	0.54	ppb	98
9) Ethanol	2.628	45	434m	8.89	ppb	
10) Ethyl Ether	2.726	45	2200	0.42	ppb	# 50
11) Freon-113	2.957	101	6226	0.53	ppb	97
12) 1,1-Dichloroethylene	2.948	61	9055	0.54	ppb	87
13) Acrolein	2.854	56	205m	0.26	ppb	
14) Acetone	2.990	43	782	0.44	ppb	# 97
15) Iodomethane	3.090	142	3572	0.26	ppb	98
16) Allyl Chloride	3.299	76	3312	0.51	ppb	# 100
17) Methyl Acetate	3.290	43	1149	0.35	ppb	100
18) Carbon disulfide	3.165	76	15858	0.51	ppb	100
19) tert-Butyl Alcohol (TBA)	3.516	59	352m	0.54	ppb	
20) Methylene Chloride	3.418	49	7208	0.51	ppb	# 76
21) Acrylonitrile	3.627	53	409	0.25	ppb	# 56
22) trans-1,2-Dichloroethy...	3.685	61	9045	0.53	ppb	95
23) tert-Butyl Methyl Ethe...	3.680	73	8002m	0.35	ppb	
24) Hexane	3.944	57	9425	0.52	ppb	# 15
25) 1,1-Dichloroethane	4.086	63	10930	0.49	ppb	99
26) Vinyl Acetate	4.089	43	3058	0.39	ppb	# 99
27) Diisopropyl ether (DIPE)	4.125	45	13919	0.45	ppb	# 94
28) Ethyl-tert-Butyl ether...	4.459	59	11780	0.39	ppb	# 85
29) cis-1,2-Dichloroethylene	4.615	61	9507	0.51	ppb	94
31) 2,2-Dichloropropane	4.623	77	6976	0.46	ppb	96
32) Tetrahydrofuran	4.876	42	295	0.23	ppb	# 78
33) Bromochloromethane	4.835	49	3792	0.46	ppb	# 65
34) Chloroform	4.924	83	10558	0.49	ppb	# 94
35) 1,1,1-Trichloroethane	5.088	97	8956	0.45	ppb	# 81
36) Cyclohexane	5.199	56	24010m	0.52	ppb	
37) 1,1-Dichloropropylene	5.235	75	8248	0.52	ppb	# 80
39) Carbon Tetrachloride	5.235	117	7160	0.44	ppb	98
40) tert-Amyl alcohol (TAA)	5.388	59	566m	1.79	ppb	
41) 1,2-Dichloroethane	5.466	62	5505	0.45	ppb	100
42) Benzene	5.422	78	24495	0.51	ppb	# 1
43) tert-Amyl methyl ether...	5.544	73	8608	0.35	ppb	# 90
45) Trichloroethylene	6.045	95	6543	0.52	ppb	90
46) Methyl Cyclohexane	6.279	83	11144	0.52	ppb	90
47) Methyl Methacrylate	6.334	69	1262m	0.31	ppb	
48) Dibromomethane	6.376	93	2088	0.40	ppb	# 59
49) Bromodichloromethane	6.534	83	5331	0.41	ppb	# 69
50) 1,2-Dichloropropane	6.292	63	5555	0.52	ppb	# 83
51) 1,4-Dioxane	6.365	88	40	0.71	ppb	# 86
52) 2-nitropropane	6.738	43	171	0.17	ppb	# 100

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251896.D
 Acq On : 26 Sep 2023 5:29 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL1
 Misc : QBQV6092623A
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 11:23:04 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	2-Chloroethyl vinyl ether	7.305	63	2008	0.56	ppb	#	93
54)	cis-1,3-Dichloropropene	6.969	75	5824	0.39	ppb	#	79
55)	4-Methyl-2-Pentanone	7.099	43	1481m	0.36	ppb		
57)	Toluene	7.305	91	26690	0.55	ppb		100
58)	n-Octane	7.441	43	8188	0.50	ppb		96
59)	trans-1,3-Dichloropropene	7.531	75	3786	0.34	ppb	#	85
60)	ethyl methacrylate	7.589	69	2601	0.32	ppb	#	100
61)	1,1,2-Trichloroethane	7.734	97	2945	0.40	ppb		91
62)	1,3-Dichloropropane	7.901	76	5176	0.43	ppb	#	61
63)	Tetrachloroethylene	7.834	166	6732	0.51	ppb	#	99
64)	2-Hexanone	7.956	43	849m	0.30	ppb		
65)	n-Butyl Acetate	8.073	56	1125m	0.34	ppb		
66)	Dibromochloromethane	8.129	129	2852	0.34	ppb	#	93
67)	1,2-Dibromoethane	8.254	107	2434m	0.37	ppb		
68)	Chlorobenzene	8.766	112	15060	0.51	ppb	#	83
69)	1,1,1,2-tetrachloroethane	8.860	131	4055	0.43	ppb	#	49
70)	Ethyl Benzene	8.869	91	26798	0.54	ppb		95
71)	p- & m-Xylenes	9.013	91	42417m	1.08	ppb		
72)	n-Nonane	9.052	43	5107	0.45	ppb		100
73)	o-Xylene	9.422	91	20490	0.52	ppb		99
74)	Styrene	9.445	104	13018	0.44	ppb		92
75)	Bromoform	9.645	173	1033	0.27	ppb	#	78
77)	p-Ethyltoluene	10.424	105	21349m	0.59	ppb		
78)	Isopropylbenzene	9.826	105	23749	0.60	ppb		98
80)	1,1,2,2-Tetrachloroethane	10.157	83	2335	0.46	ppb	#	69
81)	Bromobenzene	10.171	77	7704	0.57	ppb		93
82)	trans-1,4-Dichloro-2-b...	10.227	75	2074	0.41	ppb	#	36
83)	1,2,3-Trichloropropane	10.221	110	704	0.46	ppb		92
84)	n-Propylbenzene	10.285	91	28816	0.60	ppb	#	94
85)	2-Chlorotoluene	10.385	91	18074	0.62	ppb		100
86)	4-Chlorotoluene	10.519	91	19411	0.63	ppb		96
87)	n-Decane	10.527	43	2783	0.47	ppb		92
88)	1,3,5-Trimethylbenzene	10.491	105	18790	0.59	ppb	#	65
89)	tert-Butylbenzene	10.841	119	18426	0.55	ppb		98
90)	1,2,4-Trimethylbenzene	10.908	105	18290	0.56	ppb		98
91)	sec-Butylbenzene	11.095	105	23458	0.57	ppb		99
92)	1,3-Dichlorobenzene	11.223	146	9858	0.56	ppb		98
93)	Limonene	11.223	68	4032	0.52	ppb		97
94)	p-Isopropyltoluene	11.270	119	19983	0.56	ppb		97
95)	1,4-Dichlorobenzene	11.342	146	9442	0.53	ppb		98
96)	1,2,3-Trimethylbenzene	11.367	105	16103	0.48	ppb		99
97)	p-Diethylbenzene	11.704	105	10328	0.54	ppb	#	97
98)	1,2-Dichlorobenzene	11.737	146	7581	0.52	ppb	#	62
99)	n-Butylbenzene	11.729	91	22038	0.61	ppb		97
100)	trans-Decahydronaphtha...	11.754	67	3849	0.57	ppb		91
101)	n-Undecane	11.882	57	1647	0.25	ppb		99
102)	hexachloroethane	12.057	117	2164	0.39	ppb	#	100
103)	cis-Decahydronaphthalene	12.397	81	3515	0.50	ppb	#	55
104)	1,2-Dibromo-3-chloropr...	12.630	75	194m	0.31	ppb		
105)	1,2,4,5-Tetramethylben...	12.591	119	12067	0.41	ppb		99
107)	1,2,4-Trichlorobenzene	13.571	180	2416	0.32	ppb		97
108)	Hexachloro-1,3-Butadiene	13.740	225	1661	0.37	ppb	#	86
109)	Naphthalene	13.863	128	3192	0.26	ppb		94
110)	1,2,3-Trichlorobenzene	14.119	180	1482	0.27	ppb	#	89

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

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251897.D
 Acq On : 26 Sep 2023 5:53 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL2
 Misc : QBQV6092623A
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 09:56:49 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	145034	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	567456	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	177284	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	143783	9.30	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	93.00%	
56) Toluene-d8 (SURR)	7.233	98	788274	10.47	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	104.70%	
79) p-Bromofluorobenzene (...)	10.021	95	256219	11.20	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	112.00%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	18731	1.81	ppb	# 1
3) Freon-22	1.529	51	27089m	2.65	ppb	
4) Chloromethane	1.682	50	17749	1.81	ppb	# 77
5) Vinyl Chloride	1.777	62	20469	2.06	ppb	# 46
6) Bromomethane	2.091	94	5015	0.87	ppb	70
7) Chloroethane	2.197	64	15668	1.74	ppb	90
8) Trichlorofluoromethane	2.450	101	31298	1.65	ppb	97
9) Ethanol	2.628	45	1898m	38.33	ppb	
10) Ethyl Ether	2.723	45	7335m	1.39	ppb	
11) Freon-113	2.959	101	19295	1.63	ppb	98
12) 1,1-Dichloroethylene	2.945	61	29600	1.73	ppb	88
13) Acrolein	2.854	56	905	1.12	ppb	# 78
14) Acetone	2.993	43	1879m	1.05	ppb	
15) Iodomethane	3.087	142	13120	0.94	ppb	98
16) Allyl Chloride	3.293	76	9861	1.48	ppb	# 100
17) Methyl Acetate	3.288	43	4377m	1.30	ppb	
18) Carbon disulfide	3.165	76	49753	1.58	ppb	100
19) tert-Butyl Alcohol (TBA)	3.513	59	656m	1.00	ppb	
20) Methylene Chloride	3.416	49	23951	1.66	ppb	# 74
21) Acrylonitrile	3.622	53	1880	1.12	ppb	# 46
22) trans-1,2-Dichloroethy...	3.683	61	29776	1.73	ppb	96
23) tert-Butyl Methyl Ethe...	3.680	73	27515	1.20	ppb	# 99
24) Hexane	3.947	57	31436	1.71	ppb	# 48
25) 1,1-Dichloroethane	4.086	63	37391	1.65	ppb	# 96
26) Vinyl Acetate	4.089	43	11001	1.37	ppb	# 99
27) Diisopropyl ether (DIPE)	4.120	45	45845	1.45	ppb	# 95
28) Ethyl-tert-Butyl ether...	4.459	59	39528	1.28	ppb	# 85
29) cis-1,2-Dichloroethylene	4.615	61	31590	1.67	ppb	# 84
30) 2-Butanone	4.606	72	639m	1.06	ppb	
31) 2,2-Dichloropropane	4.620	77	24893	1.63	ppb	# 65
32) Tetrahydrofuran	4.871	42	1365	1.03	ppb	# 68
33) Bromochloromethane	4.835	49	12947	1.54	ppb	# 65
34) Chloroform	4.926	83	34138	1.55	ppb	# 94
35) 1,1,1-Trichloroethane	5.091	97	30746	1.52	ppb	# 72
36) Cyclohexane	5.199	56	79749m	1.70	ppb	
37) 1,1-Dichloropropylene	5.238	75	26323	1.63	ppb	# 86
39) Carbon Tetrachloride	5.241	117	25742	1.55	ppb	# 59
40) tert-Amyl alcohol (TAA)	5.436	59	2140m	6.67	ppb	
41) 1,2-Dichloroethane	5.466	62	17642m	1.41	ppb	
42) Benzene	5.419	78	79668	1.65	ppb	# 53
43) tert-Amyl methyl ether...	5.544	73	28475	1.15	ppb	# 100
45) Trichloroethylene	6.048	95	21852	1.69	ppb	93
46) Methyl Cyclohexane	6.279	83	37696	1.73	ppb	88
47) Methyl Methacrylate	6.331	69	4902m	1.19	ppb	
48) Dibromomethane	6.370	93	7307	1.37	ppb	95
49) Bromodichloromethane	6.540	83	19406	1.45	ppb	# 88
50) 1,2-Dichloropropane	6.292	63	19031	1.75	ppb	# 100
51) 1,4-Dioxane	6.370	88	784m	13.57	ppb	

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251897.D
 Acq On : 26 Sep 2023 5:53 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL2
 Misc : QBQV6092623A
 ALS Vial : 6 Sample Multiplier: 1

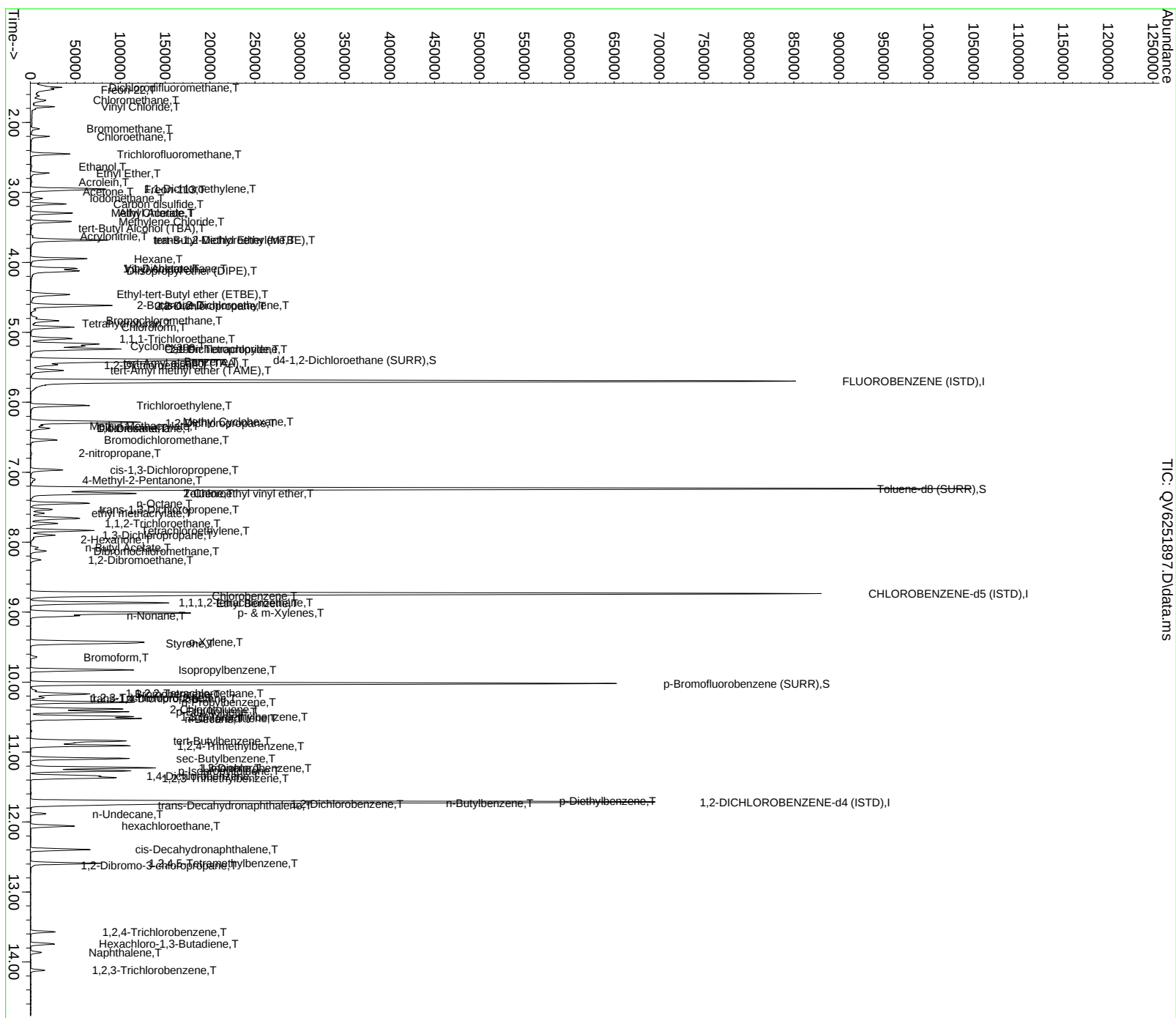
Quant Time: Sep 27 09:56:49 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52)	2-nitropropane	6.729	43	861m	0.85	ppb	
53)	2-Chloroethyl vinyl ether	7.302	63	6658	1.82	ppb	# 93
54)	cis-1,3-Dichloropropene	6.966	75	22052m	1.42	ppb	
55)	4-Methyl-2-Pentanone	7.108	43	3659	0.88	ppb	# 81
57)	Toluene	7.302	91	85803	1.73	ppb	99
58)	n-Octane	7.444	43	28183	1.68	ppb	# 76
59)	trans-1,3-Dichloropropene	7.531	75	14249	1.23	ppb	# 92
60)	ethyl methacrylate	7.583	69	9282	1.11	ppb	# 100
61)	1,1,2-Trichloroethane	7.731	97	10919	1.45	ppb	90
62)	1,3-Dichloropropane	7.901	76	17731	1.44	ppb	# 54
63)	Tetrachloroethylene	7.834	166	22249	1.64	ppb	# 77
64)	2-Hexanone	7.956	43	2805	0.98	ppb	# 74
65)	n-Butyl Acetate	8.079	56	3740	1.09	ppb	# 28
66)	Dibromochloromethane	8.126	129	10409	1.22	ppb	# 92
67)	1,2-Dibromoethane	8.254	107	8918	1.33	ppb	96
68)	Chlorobenzene	8.766	112	50695	1.66	ppb	93
69)	1,1,1,2-tetrachloroethane	8.858	131	15000	1.54	ppb	# 74
70)	Ethyl Benzene	8.869	91	90612	1.77	ppb	96
71)	p- & m-Xylenes	9.011	91	143381	3.58	ppb	95
72)	n-Nonane	9.052	43	18320	1.58	ppb	# 87
73)	o-Xylene	9.425	91	70273	1.73	ppb	99
74)	Styrene	9.448	104	47489	1.57	ppb	95
75)	Bromoform	9.648	173	3849	0.97	ppb	# 89
77)	p-Ethyltoluene	10.424	105	72242m	1.89	ppb	
78)	Isopropylbenzene	9.829	105	82859	1.97	ppb	99
80)	1,1,2,2-Tetrachloroethane	10.163	83	8086	1.49	ppb	# 69
81)	Bromobenzene	10.171	77	26865	1.88	ppb	90
82)	trans-1,4-Dichloro-2-b...	10.227	75	7467m	1.40	ppb	
83)	1,2,3-Trichloropropane	10.224	110	2527	1.56	ppb	85
84)	n-Propylbenzene	10.288	91	99596	1.97	ppb	99
85)	2-Chlorotoluene	10.385	91	60565	1.97	ppb	100
86)	4-Chlorotoluene	10.519	91	65968	2.02	ppb	97
87)	n-Decane	10.524	43	9896	1.59	ppb	90
88)	1,3,5-Trimethylbenzene	10.491	105	66167	1.95	ppb	# 67
89)	tert-Butylbenzene	10.839	119	65004	1.83	ppb	98
90)	1,2,4-Trimethylbenzene	10.911	105	66255	1.93	ppb	97
91)	sec-Butylbenzene	11.092	105	82714	1.88	ppb	98
92)	1,3-Dichlorobenzene	11.223	146	34084	1.82	ppb	99
93)	Limonene	11.225	68	15999	1.96	ppb	98
94)	p-Isopropyltoluene	11.267	119	70458	1.85	ppb	98
95)	1,4-Dichlorobenzene	11.339	146	32171	1.71	ppb	97
96)	1,2,3-Trimethylbenzene	11.367	105	56362	1.59	ppb	99
97)	p-Diethylbenzene	11.704	105	35674	1.75	ppb	# 97
98)	1,2-Dichlorobenzene	11.737	146	26993	1.74	ppb	96
99)	n-Butylbenzene	11.729	91	73705	1.91	ppb	95
100)	trans-Decahydronaphtha...	11.757	67	13824	1.93	ppb	92
101)	n-Undecane	11.885	57	6199	0.89	ppb	97
102)	hexachloroethane	12.057	117	8390	1.43	ppb	# 100
103)	cis-Decahydronaphthalene	12.391	81	12719	1.69	ppb	94
104)	1,2-Dibromo-3-chloropr...	12.622	75	712	1.06	ppb	93
105)	1,2,4,5-Tetramethylben...	12.589	119	45352	1.46	ppb	98
107)	1,2,4-Trichlorobenzene	13.571	180	8900	1.10	ppb	97
108)	Hexachloro-1,3-Butadiene	13.738	225	5903	1.24	ppb	97
109)	Naphthalene	13.863	128	10928	0.83	ppb	96
110)	1,2,3-Trichlorobenzene	14.119	180	5241	0.91	ppb	# 91

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

Data Path : C:\msdchem\1\DATA\092623\
Data File : QV6251897.D
Acq On : 26 Sep 2023 5:53 pm
InstName : QV0A6
Operator : JTG
Sample : SEO-CAL2
Misc : QB0V6092623A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 09:56:49 2023
Quant Method : C:\msdchem\2\METHODS\V06L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Tue Sep 12 12:59:02 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251898.D
 Acq On : 26 Sep 2023 6:18 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL3
 Misc : QBQV6092623A
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 10:03:02 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	144780	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	562689	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	175832	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	140278	9.09	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	90.90%	
56) Toluene-d8 (SURR)	7.233	98	787324	10.55	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	105.50%	
79) p-Bromofluorobenzene (...)	10.021	95	254495	11.22	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	112.20%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	44339	4.29	ppb	# 1
3) Freon-22	1.532	51	51424m	5.03	ppb	
4) Chloromethane	1.685	50	41576	4.25	ppb	# 42
5) Vinyl Chloride	1.777	62	49222	4.96	ppb	# 48
6) Bromomethane	2.088	94	12871	2.24	ppb	# 67
7) Chloroethane	2.200	64	37141	4.14	ppb	# 89
8) Trichlorofluoromethane	2.450	101	76575	4.04	ppb	# 97
9) Ethanol	2.620	45	4115m	83.25	ppb	
10) Ethyl Ether	2.725	45	16111	3.06	ppb	# 66
11) Freon-113	2.959	101	47801	4.03	ppb	# 99
12) 1,1-Dichloroethylene	2.948	61	73042	4.27	ppb	# 88
13) Acrolein	2.848	56	2206	2.73	ppb	# 83
14) Acetone	2.981	43	4044	2.26	ppb	# 95
15) Iodomethane	3.087	142	38071	2.72	ppb	# 98
16) Allyl Chloride	3.293	76	27739	4.18	ppb	# 100
17) Methyl Acetate	3.290	43	9694m	2.88	ppb	
18) Carbon disulfide	3.165	76	126357	4.03	ppb	# 100
19) tert-Butyl Alcohol (TBA)	3.527	59	1625m	2.47	ppb	
20) Methylene Chloride	3.415	49	57539	4.00	ppb	# 74
21) Acrylonitrile	3.627	53	4549	2.71	ppb	# 67
22) trans-1,2-Dichloroethy...	3.680	61	73491	4.27	ppb	# 95
23) tert-Butyl Methyl Ethe...	3.677	73	68005	2.97	ppb	# 88
24) Hexane	3.950	57	75121	4.10	ppb	# 48
25) 1,1-Dichloroethane	4.086	63	91626	4.05	ppb	# 99
26) Vinyl Acetate	4.083	43	27863	3.47	ppb	# 100
27) Diisopropyl ether (DIPE)	4.122	45	116315	3.68	ppb	# 94
28) Ethyl-tert-Butyl ether...	4.462	59	98095	3.18	ppb	# 96
29) cis-1,2-Dichloroethylene	4.612	61	77437	4.10	ppb	# 93
30) 2-Butanone	4.601	72	1578m	2.63	ppb	
31) 2,2-Dichloropropane	4.623	77	63790	4.20	ppb	# 65
32) Tetrahydrofuran	4.871	42	3359	2.54	ppb	# 54
33) Bromochloromethane	4.834	49	32106	3.83	ppb	# 72
34) Chloroform	4.926	83	82369	3.74	ppb	# 84
35) 1,1,1-Trichloroethane	5.088	97	78400	3.89	ppb	# 96
36) Cyclohexane	5.196	56	197323m	4.22	ppb	
37) 1,1-Dichloropropylene	5.238	75	67682	4.19	ppb	# 85
39) Carbon Tetrachloride	5.238	117	66063	3.98	ppb	# 100
40) tert-Amyl alcohol (TAA)	5.458	59	4408m	13.76	ppb	
41) 1,2-Dichloroethane	5.463	62	42304m	3.39	ppb	
42) Benzene	5.419	78	193535	4.01	ppb	# 60
43) tert-Amyl methyl ether...	5.544	73	69583	2.81	ppb	# 90
45) Trichloroethylene	6.045	95	53646	4.18	ppb	# 92
46) Methyl Cyclohexane	6.281	83	93873	4.34	ppb	# 87
47) Methyl Methacrylate	6.334	69	11438m	2.80	ppb	
48) Dibromomethane	6.370	93	18440	3.48	ppb	# 94
49) Bromodichloromethane	6.540	83	48901	3.67	ppb	# 93
50) 1,2-Dichloropropane	6.290	63	47781	4.43	ppb	# 99
51) 1,4-Dioxane	6.370	88	1981m	34.59	ppb	

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251898.D
 Acq On : 26 Sep 2023 6:18 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL3
 Misc : QBQV6092623A
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 10:03:02 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52)	2-nitropropane	6.729	43	2238m	2.24	ppb	
53)	2-Chloroethyl vinyl ether	7.302	63	15547	4.28	ppb	# 93
54)	cis-1,3-Dichloropropene	6.966	75	58542	3.81	ppb	# 78
55)	4-Methyl-2-Pentanone	7.102	43	9902	2.39	ppb	# 78
57)	Toluene	7.302	91	208984	4.25	ppb	99
58)	n-Octane	7.441	43	69851	4.21	ppb	97
59)	trans-1,3-Dichloropropene	7.530	75	38067	3.32	ppb	99
60)	ethyl methacrylate	7.583	69	24195	2.91	ppb	# 100
61)	1,1,2-Trichloroethane	7.728	97	25707	3.44	ppb	90
62)	1,3-Dichloropropane	7.900	76	43138	3.53	ppb	# 62
63)	Tetrachloroethylene	7.831	166	54216	4.04	ppb	# 100
64)	2-Hexanone	7.956	43	6765	2.39	ppb	# 1
65)	n-Butyl Acetate	8.070	56	8951	2.64	ppb	# 33
66)	Dibromochloromethane	8.126	129	27294	3.23	ppb	98
67)	1,2-Dibromoethane	8.251	107	21704	3.27	ppb	98
68)	Chlorobenzene	8.769	112	121584	4.02	ppb	# 89
69)	1,1,1,2-tetrachloroethane	8.860	131	37221	3.85	ppb	97
70)	Ethyl Benzene	8.869	91	221279	4.37	ppb	97
71)	p- & m-Xylenes	9.013	91	350159	8.82	ppb	95
72)	n-Nonane	9.052	43	44833	3.89	ppb	97
73)	o-Xylene	9.422	91	171244	4.24	ppb	99
74)	Styrene	9.445	104	120250	4.00	ppb	96
75)	Bromoform	9.642	173	10098	2.56	ppb	# 79
77)	p-Ethyltoluene	10.427	105	181046	4.77	ppb	# 82
78)	Isopropylbenzene	9.826	105	207361	4.97	ppb	99
80)	1,1,2,2-Tetrachloroethane	10.160	83	19682	3.67	ppb	# 69
81)	Bromobenzene	10.174	77	64296	4.54	ppb	91
82)	trans-1,4-Dichloro-2-b...	10.221	75	16981	3.22	ppb	# 49
83)	1,2,3-Trichloropropane	10.224	110	5616	3.50	ppb	90
84)	n-Propylbenzene	10.285	91	249385	4.97	ppb	99
85)	2-Chlorotoluene	10.382	91	148405	4.87	ppb	99
86)	4-Chlorotoluene	10.521	91	161341	4.98	ppb	97
87)	n-Decane	10.527	43	24352	3.93	ppb	# 83
88)	1,3,5-Trimethylbenzene	10.491	105	163202	4.84	ppb	# 67
89)	tert-Butylbenzene	10.841	119	163407	4.64	ppb	97
90)	1,2,4-Trimethylbenzene	10.905	105	159598	4.69	ppb	99
91)	sec-Butylbenzene	11.092	105	205348	4.72	ppb	98
92)	1,3-Dichlorobenzene	11.222	146	81628	4.39	ppb	98
93)	Limonene	11.228	68	43162	5.34	ppb	# 92
94)	p-Isopropyltoluene	11.270	119	175137	4.64	ppb	98
95)	1,4-Dichlorobenzene	11.339	146	78279	4.20	ppb	97
96)	1,2,3-Trimethylbenzene	11.367	105	133699	3.81	ppb	99
97)	p-Diethylbenzene	11.701	105	91462	4.53	ppb	# 97
98)	1,2-Dichlorobenzene	11.737	146	64630	4.21	ppb	# 87
99)	n-Butylbenzene	11.729	91	185322	4.85	ppb	98
100)	trans-Decahydronaphtha...	11.754	67	32970	4.63	ppb	92
101)	n-Undecane	11.879	57	15372	2.23	ppb	96
102)	hexachloroethane	12.057	117	22976	3.94	ppb	# 100
103)	cis-Decahydronaphthalene	12.397	81	31550	4.23	ppb	94
104)	1,2-Dibromo-3-chloropr...	12.628	75	1946	2.93	ppb	90
105)	1,2,4,5-Tetramethylben...	12.591	119	116853	3.79	ppb	99
106)	nitrobenzene	12.842	77	63m	0.72	ppb	
107)	1,2,4-Trichlorobenzene	13.571	180	22151	2.76	ppb	98
108)	Hexachloro-1,3-Butadiene	13.743	225	14972	3.17	ppb	98
109)	Naphthalene	13.866	128	28353	2.16	ppb	99
110)	1,2,3-Trichlorobenzene	14.119	180	13196	2.32	ppb	98

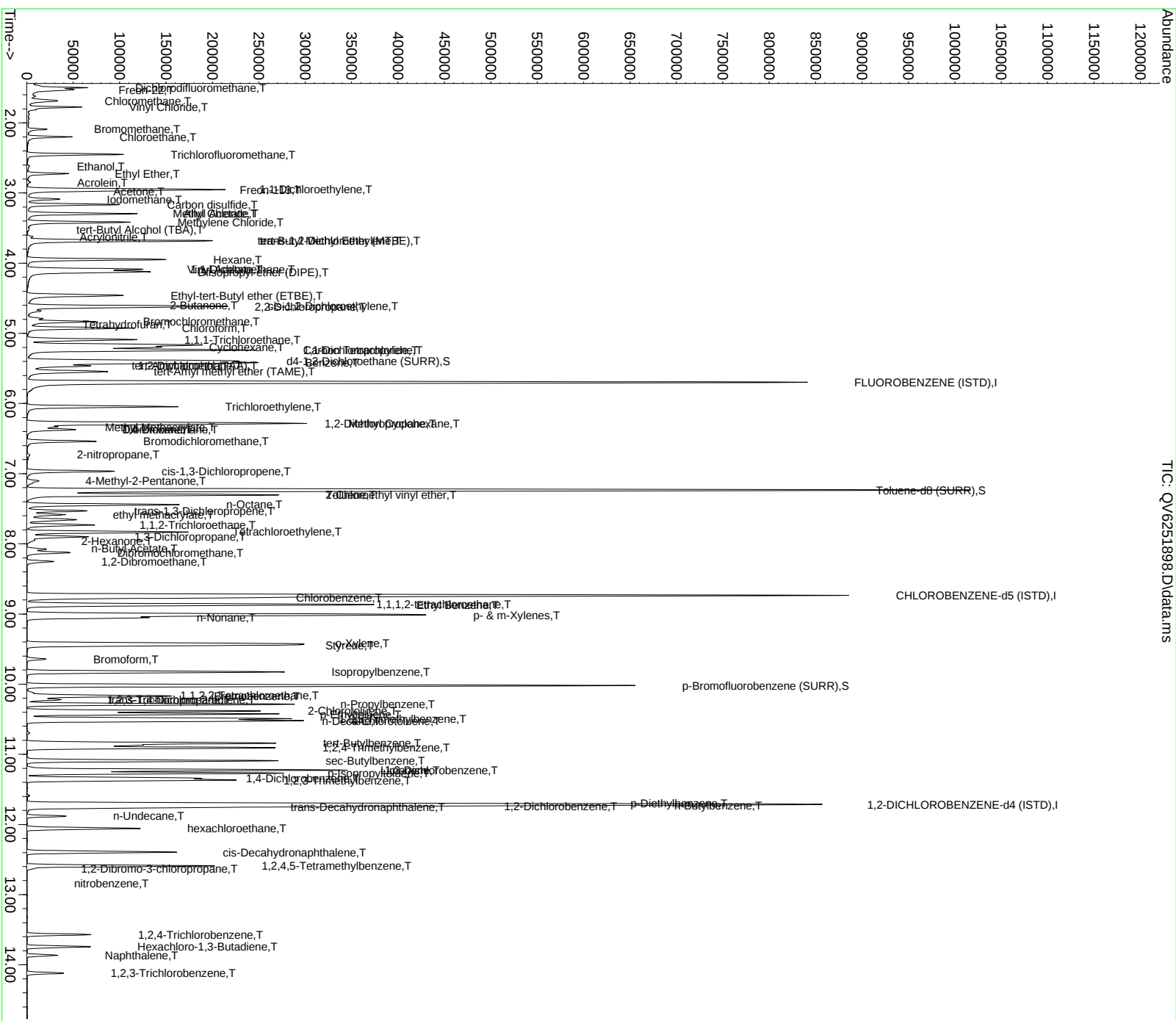
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```

Data Path      : C:\msdchem\1\DATA\092623\
Data File     : QV6251898.D
Acq On        : 26 Sep 2023    6:18 pm
InstName      : QV0A6
Operator      : JTG
Sample        : SEQ-CAL3
Misc          : QBQV6092623A
ALS Vial      : 7
               Sample Multiplier: 1

```

Quant Time: Sep 27 10:03:02 2023
Quant Method: C:\msdchem\2\METHODS\V06L0100.SCADD.M
Quant Title: Volatile Organics EPA 8260C-Waters
Quant Update: Tue Sep 12 12:59:02 2023
Response via: Initial Calibration



Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251899.D
 Acq On : 26 Sep 2023 6:42 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL4
 Misc : QBQV6092623A
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 10:09:31 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	148883	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	581182	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.712	152	189680	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	143629	9.05	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	90.50%	
56) Toluene-d8 (SURR)	7.236	98	808097	10.48	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	104.80%	
79) p-Bromofluorobenzene (...)	10.021	95	267425	10.93	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	109.30%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	110916	10.43	ppb	# 1
3) Freon-22	1.527	51	116671m	11.11	ppb	
4) Chloromethane	1.688	50	101080	10.06	ppb	# 42
5) Vinyl Chloride	1.774	62	123206	12.07	ppb	# 48
6) Bromomethane	2.091	94	35422	5.99	ppb	67
7) Chloroethane	2.200	64	92002	9.97	ppb	90
8) Trichlorofluoromethane	2.450	101	192229	9.86	ppb	97
9) Ethanol	2.612	45	10338m	203.38	ppb	
10) Ethyl Ether	2.720	45	39408	7.29	ppb	# 62
11) Freon-113	2.957	101	121016	9.93	ppb	98
12) 1,1-Dichloroethylene	2.945	61	183852	10.45	ppb	88
13) Acrolein	2.848	56	5661	6.81	ppb	# 83
14) Acetone	2.979	43	9342m	5.07	ppb	
15) Iodomethane	3.087	142	112873	7.85	ppb	98
16) Allyl Chloride	3.293	76	68010	9.96	ppb	# 100
17) Methyl Acetate	3.285	43	24439	7.06	ppb	# 95
18) Carbon disulfide	3.162	76	320740	9.95	ppb	100
19) tert-Butyl Alcohol (TBA)	3.519	59	3722m	5.51	ppb	
20) Methylene Chloride	3.416	49	140549	9.50	ppb	# 74
21) Acrylonitrile	3.624	53	12312	7.12	ppb	# 72
22) trans-1,2-Dichloroethy...	3.680	61	178968	10.12	ppb	95
23) tert-Butyl Methyl Ethe...	3.677	73	175005	7.44	ppb	# 88
24) Hexane	3.944	57	193772	10.29	ppb	# 15
25) 1,1-Dichloroethane	4.083	63	229184	9.85	ppb	99
26) Vinyl Acetate	4.083	43	83776	10.16	ppb	# 100
27) Diisopropyl ether (DIPE)	4.122	45	298220	9.18	ppb	# 94
28) Ethyl-tert-Butyl ether...	4.462	59	259014	8.16	ppb	# 85
29) cis-1,2-Dichloroethylene	4.612	61	193557	9.96	ppb	93
30) 2-Butanone	4.601	72	4393	7.12	ppb	# 95
31) 2,2-Dichloropropane	4.620	77	169247	10.83	ppb	88
32) Tetrahydrofuran	4.865	42	8666	6.38	ppb	# 30
33) Bromochloromethane	4.832	49	78802	9.15	ppb	# 84
34) Chloroform	4.924	83	208529	9.20	ppb	# 94
35) 1,1,1-Trichloroethane	5.088	97	201534	9.74	ppb	# 82
36) Cyclohexane	5.196	56	498520m	10.36	ppb	
37) 1,1-Dichloropropylene	5.238	75	170684	10.28	ppb	# 87
39) Carbon Tetrachloride	5.241	117	173908	10.20	ppb	# 92
40) tert-Amyl alcohol (TAA)	5.441	59	11627m	35.30	ppb	
41) 1,2-Dichloroethane	5.463	62	105072	8.19	ppb	99
42) Benzene	5.419	78	480868	9.70	ppb	# 68
43) tert-Amyl methyl ether...	5.544	73	188560	7.40	ppb	# 99
45) Trichloroethylene	6.045	95	135261	10.20	ppb	93
46) Methyl Cyclohexane	6.279	83	243493	10.90	ppb	87
47) Methyl Methacrylate	6.334	69	30655	7.26	ppb	# 28
48) Dibromomethane	6.373	93	47733	8.73	ppb	94
49) Bromodichloromethane	6.540	83	128462	9.35	ppb	# 92
50) 1,2-Dichloropropane	6.290	63	115472	10.36	ppb	# 99
51) 1,4-Dioxane	6.365	88	5203m	87.96	ppb	

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251899.D
 Acq On : 26 Sep 2023 6:42 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL4
 Misc : QBQV6092623A
 ALS Vial : 8 Sample Multiplier: 1

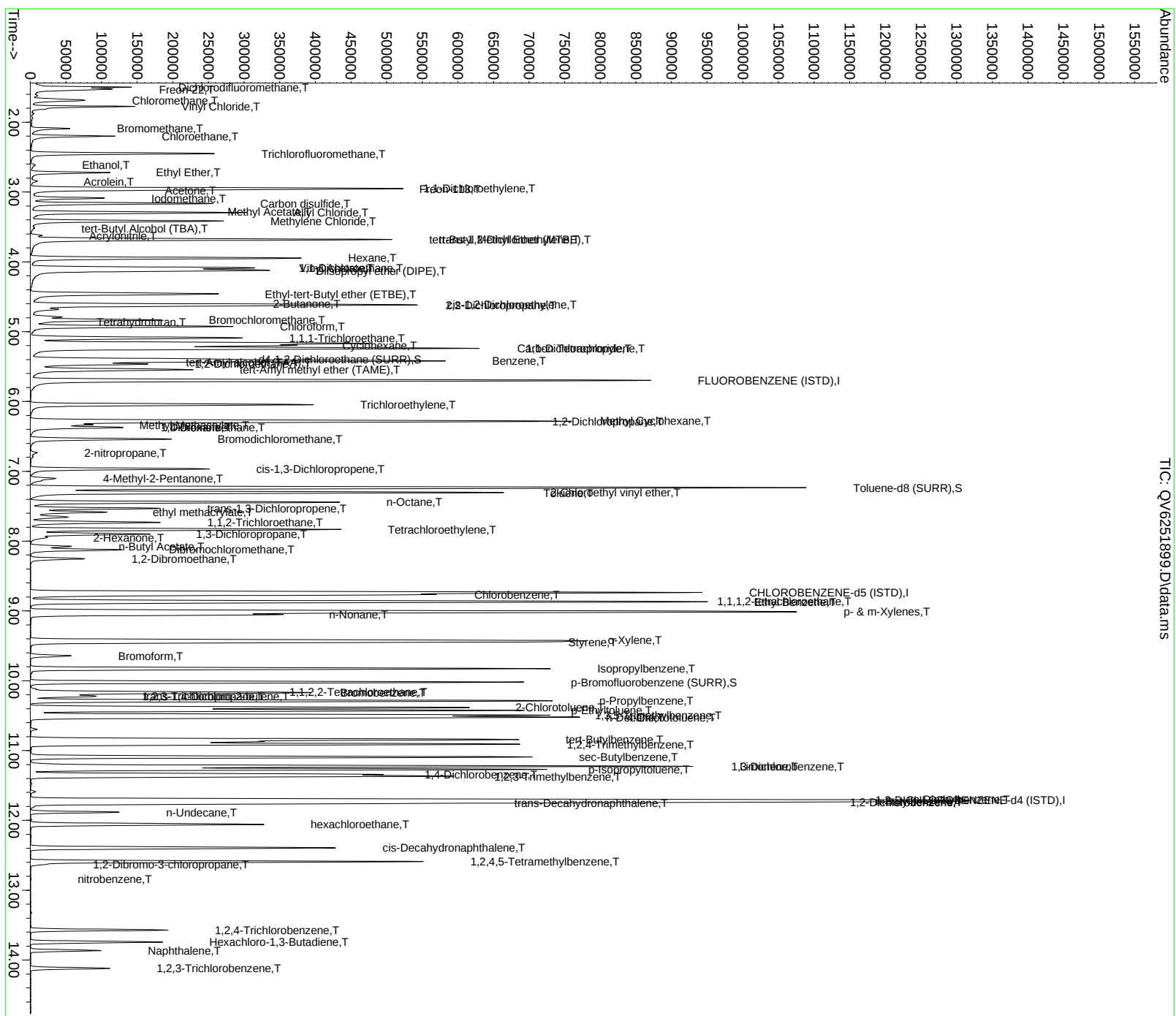
Quant Time: Sep 27 10:09:31 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
52)	2-nitropropane	6.732	43	6816	6.60	ppb	#	100
53)	2-Chloroethyl vinyl ether	7.302	63	39130m	10.42	ppb		
54)	cis-1,3-Dichloropropene	6.966	75	152344	9.61	ppb	#	79
55)	4-Methyl-2-Pentanone	7.102	43	28873m	6.75	ppb		
57)	Toluene	7.305	91	520430	10.25	ppb		99
58)	n-Octane	7.442	43	183646	10.70	ppb		97
59)	trans-1,3-Dichloropropene	7.531	75	104481	8.82	ppb		99
60)	ethyl methacrylate	7.586	69	62896	7.32	ppb	#	100
61)	1,1,2-Trichloroethane	7.731	97	64281	8.34	ppb		92
62)	1,3-Dichloropropane	7.901	76	108033	8.56	ppb	#	54
63)	Tetrachloroethylene	7.834	166	137748	9.94	ppb	#	99
64)	2-Hexanone	7.954	43	18268	6.24	ppb	#	1
65)	n-Butyl Acetate	8.073	56	23950	6.84	ppb	#	26
66)	Dibromochloromethane	8.123	129	73078	8.37	ppb		97
67)	1,2-Dibromoethane	8.251	107	55736	8.13	ppb		96
68)	Chlorobenzene	8.766	112	306324	9.81	ppb		93
69)	1,1,1,2-tetrachloroethane	8.863	131	98047	9.83	ppb		99
70)	Ethyl Benzene	8.869	91	558626	10.67	ppb		97
71)	p- & m-Xylenes	9.011	91	877776	21.40	ppb		95
72)	n-Nonane	9.053	43	119856	10.07	ppb		96
73)	o-Xylene	9.423	91	433083	10.39	ppb		99
74)	Styrene	9.445	104	311549	10.03	ppb		96
75)	Bromoform	9.642	173	29554	7.27	ppb	#	81
77)	p-Ethyltoluene	10.424	105	474993	11.60	ppb	#	82
78)	Isopropylbenzene	9.826	105	529652	11.77	ppb		99
80)	1,1,2,2-Tetrachloroethane	10.160	83	51583	8.91	ppb	#	69
81)	Bromobenzene	10.174	77	163349	10.69	ppb		91
82)	trans-1,4-Dichloro-2-b...	10.221	75	46181	8.11	ppb	#	46
83)	1,2,3-Trichloropropane	10.224	110	14569	8.42	ppb	#	54
84)	n-Propylbenzene	10.288	91	647522	11.96	ppb		98
85)	2-Chlorotoluene	10.382	91	373784	11.37	ppb		99
86)	4-Chlorotoluene	10.522	91	410070	11.73	ppb		97
87)	n-Decane	10.524	43	66374	9.94	ppb		89
88)	1,3,5-Trimethylbenzene	10.491	105	423970	11.66	ppb	#	67
89)	tert-Butylbenzene	10.841	119	428051	11.26	ppb		97
90)	1,2,4-Trimethylbenzene	10.908	105	415990	11.32	ppb		99
91)	sec-Butylbenzene	11.092	105	542748	11.56	ppb		99
92)	1,3-Dichlorobenzene	11.223	146	212656	10.59	ppb		98
93)	Limonene	11.225	68	120825	13.85	ppb		98
94)	p-Isopropyltoluene	11.270	119	464288	11.40	ppb		98
95)	1,4-Dichlorobenzene	11.339	146	206131	10.25	ppb		98
96)	1,2,3-Trimethylbenzene	11.367	105	346325	9.15	ppb		99
97)	p-Diethylbenzene	11.704	105	247159	11.35	ppb	#	98
98)	1,2-Dichlorobenzene	11.737	146	166854	10.08	ppb		99
99)	n-Butylbenzene	11.729	91	487046	11.83	ppb		97
100)	trans-Decahydronaphtha...	11.754	67	88348	11.50	ppb		91
101)	n-Undecane	11.882	57	46379	6.25	ppb	#	88
102)	hexachloroethane	12.057	117	67379	10.71	ppb	#	100
103)	cis-Decahydronaphthalene	12.394	81	86731	10.79	ppb	#	65
104)	1,2-Dibromo-3-chloropr...	12.630	75	5039	7.04	ppb	#	57
105)	1,2,4,5-Tetramethylben...	12.589	119	325073	9.79	ppb		99
106)	nitrobenzene	12.839	77	378m	4.00	ppb		
107)	1,2,4-Trichlorobenzene	13.571	180	61733	7.14	ppb		97
108)	Hexachloro-1,3-Butadiene	13.743	225	40484	7.95	ppb		99
109)	Naphthalene	13.863	128	83165	5.88	ppb		99
110)	1,2,3-Trichlorobenzene	14.119	180	36433	5.94	ppb		97

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

Data Path : C:\msdchem\1\DATA\092623\
Data File : QV6251899.D
Acq On : 26 Sep 2023 6:42 pm
InstName : QV0A6
Operator : JTG
Sample : SEO-CAL4
Misc : QB0V6092623A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 10:09:31 2023
Quant Method : C:\msdchem\2\METHODS\V06L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Tue Sep 12 12:59:02 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251900.D
 Acq On : 26 Sep 2023 7:07 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL5
 Misc : QBQV6092623A
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 10:13:03 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	148755	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	600431	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	200547	10.00	ppb	# 0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	145984	9.21	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	92.10%	
56) Toluene-d8 (SURR)	7.233	98	826851	10.38	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	103.80%	
79) p-Bromofluorobenzene (...)	10.021	95	276411	10.68	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	106.80%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	222761	20.96	ppb	# 1
3) Freon-22	1.529	51	223021m	21.25	ppb	
4) Chloromethane	1.685	50	205008	20.41	ppb	# 43
5) Vinyl Chloride	1.774	62	247309	24.26	ppb	# 43
6) Bromomethane	2.091	94	87788	14.85	ppb	# 67
7) Chloroethane	2.200	64	184851	20.05	ppb	# 90
8) Trichlorofluoromethane	2.450	101	392840	20.17	ppb	# 98
9) Ethanol	2.611	45	22816	449.25	ppb	# 1
10) Ethyl Ether	2.720	45	84352	15.61	ppb	# 65
11) Freon-113	2.962	101	243443	20.00	ppb	# 99
12) 1,1-Dichloroethylene	2.948	61	366382	20.84	ppb	# 87
13) Acrolein	2.845	56	12344	14.87	ppb	# 77
14) Acetone	2.979	43	18358	9.98	ppb	# 94
15) Iodomethane	3.087	142	255682	17.79	ppb	# 98
16) Allyl Chloride	3.296	76	141422	20.73	ppb	# 100
17) Methyl Acetate	3.282	43	50480m	14.60	ppb	
18) Carbon disulfide	3.165	76	653238	20.28	ppb	# 100
19) tert-Butyl Alcohol (TBA)	3.518	59	5303m	7.86	ppb	
20) Methylene Chloride	3.416	49	283406	19.18	ppb	# 73
21) Acrylonitrile	3.621	53	24735	14.32	ppb	# 68
22) trans-1,2-Dichloroethy...	3.683	61	358541	20.29	ppb	# 85
23) tert-Butyl Methyl Ethe...	3.674	73	368588	15.69	ppb	# 98
24) Hexane	3.947	57	378998	20.14	ppb	# 19
25) 1,1-Dichloroethane	4.086	63	460753	19.82	ppb	# 99
26) Vinyl Acetate	4.083	43	163679	19.87	ppb	# 99
27) Diisopropyl ether (DIPE)	4.119	45	612956	18.88	ppb	# 95
28) Ethyl-tert-Butyl ether...	4.459	59	547580	17.27	ppb	# 96
29) cis-1,2-Dichloroethylene	4.615	61	391969	20.19	ppb	# 93
30) 2-Butanone	4.601	72	9127	14.80	ppb	# 95
31) 2,2-Dichloropropane	4.620	77	349176	22.36	ppb	# 65
32) Tetrahydrofuran	4.865	42	17386	12.81	ppb	# 24
33) Bromochloromethane	4.832	49	160833	18.69	ppb	# 83
34) Chloroform	4.926	83	426612	18.84	ppb	# 84
35) 1,1,1-Trichloroethane	5.088	97	410824	19.86	ppb	# 82
36) Cyclohexane	5.196	56	989458m	20.58	ppb	
37) 1,1-Dichloropropylene	5.238	75	344269	20.76	ppb	# 85
39) Carbon Tetrachloride	5.241	117	357875	21.01	ppb	# 99
40) tert-Amyl alcohol (TAA)	5.427	59	28120	85.44	ppb	# 63
41) 1,2-Dichloroethane	5.466	62	217147	16.93	ppb	# 100
42) Benzene	5.419	78	981623	19.81	ppb	# 72
43) tert-Amyl methyl ether...	5.544	73	407986	16.02	ppb	# 99
45) Trichloroethylene	6.045	95	275625	20.12	ppb	# 93
46) Methyl Cyclohexane	6.281	83	492048	21.31	ppb	# 86
47) Methyl Methacrylate	6.331	69	67615	15.50	ppb	# 28
48) Dibromomethane	6.373	93	97989	17.35	ppb	# 95
49) Bromodichloromethane	6.537	83	272694	19.20	ppb	# 93
50) 1,2-Dichloropropane	6.290	63	235156	20.43	ppb	# 99
51) 1,4-Dioxane	6.367	88	11234m	183.83	ppb	

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251900.D
 Acq On : 26 Sep 2023 7:07 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL5
 Misc : QBQV6092623A
 ALS Vial : 9 Sample Multiplier: 1

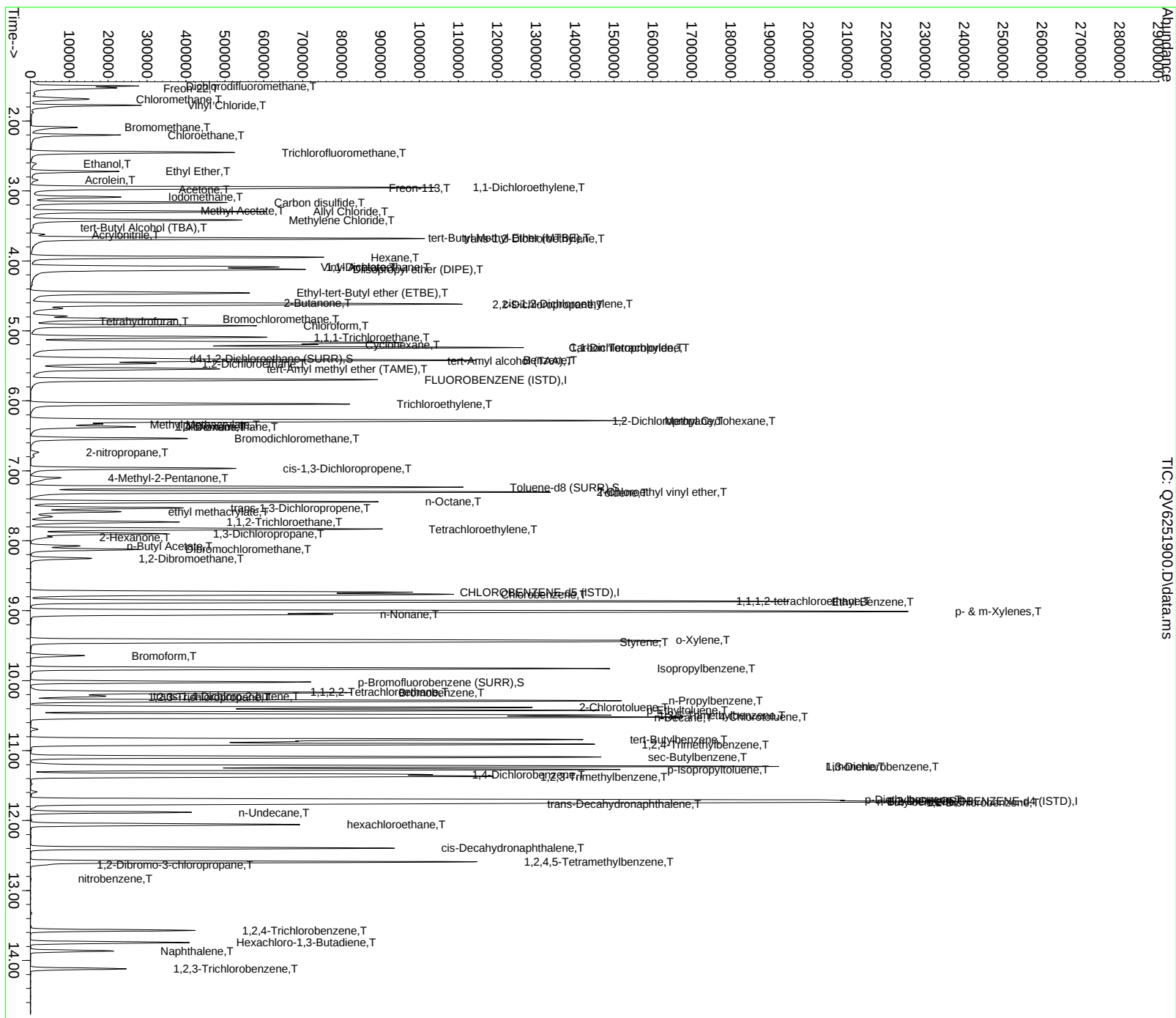
Quant Time: Sep 27 10:13:03 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52)	2-nitropropane	6.735	43	15836	14.85	ppb	# 100
53)	2-Chloroethyl vinyl ether	7.302	63	78476	20.23	ppb	# 93
54)	cis-1,3-Dichloropropene	6.966	75	324054	19.79	ppb	# 79
55)	4-Methyl-2-Pentanone	7.102	43	55999	12.68	ppb	# 70
57)	Toluene	7.305	91	1052572	20.06	ppb	# 99
58)	n-Octane	7.441	43	383731	21.65	ppb	# 97
59)	trans-1,3-Dichloropropene	7.530	75	228390	18.66	ppb	# 99
60)	ethyl methacrylate	7.583	69	136453	15.36	ppb	# 100
61)	1,1,2-Trichloroethane	7.731	97	134170	16.84	ppb	# 91
62)	1,3-Dichloropropane	7.901	76	224268	17.21	ppb	# 62
63)	Tetrachloroethylene	7.834	166	279474	19.53	ppb	# 100
64)	2-Hexanone	7.945	43	39445	13.05	ppb	# 1
65)	n-Butyl Acetate	8.073	56	51063	14.11	ppb	# 29
66)	Dibromochloromethane	8.123	129	159214	17.66	ppb	# 97
67)	1,2-Dibromoethane	8.251	107	118695	16.75	ppb	# 98
68)	Chlorobenzene	8.766	112	627540	19.46	ppb	# 93
69)	1,1,1,2-tetrachloroethane	8.860	131	207413	20.13	ppb	# 99
70)	Ethyl Benzene	8.869	91	1141627	21.11	ppb	# 97
71)	p- & m-Xylenes	9.011	91	1783897	42.09	ppb	# 96
72)	n-Nonane	9.052	43	256092	20.83	ppb	# 95
73)	o-Xylene	9.422	91	877882	20.38	ppb	# 99
74)	Styrene	9.445	104	645381	20.11	ppb	# 97
75)	Bromoform	9.642	173	67235	16.00	ppb	# 79
77)	p-Ethyltoluene	10.424	105	984328m	22.74	ppb	# 98
78)	Isopropylbenzene	9.826	105	1085121	22.81	ppb	# 69
80)	1,1,2,2-Tetrachloroethane	10.160	83	108199	17.68	ppb	# 92
81)	Bromobenzene	10.171	77	336926	20.85	ppb	# 47
82)	trans-1,4-Dichloro-2-b...	10.221	75	100020	16.60	ppb	# 88
83)	1,2,3-Trichloropropane	10.226	110	31104	17.00	ppb	# 99
84)	n-Propylbenzene	10.288	91	1323536	23.11	ppb	# 99
85)	2-Chlorotoluene	10.382	91	776335	22.33	ppb	# 97
86)	4-Chlorotoluene	10.519	91	846709	22.91	ppb	# 82
87)	n-Decane	10.527	43	152797	21.64	ppb	# 67
88)	1,3,5-Trimethylbenzene	10.491	105	870628	22.65	ppb	# 96
89)	tert-Butylbenzene	10.841	119	900287	22.40	ppb	# 99
90)	1,2,4-Trimethylbenzene	10.908	105	863395	22.23	ppb	# 98
91)	sec-Butylbenzene	11.092	105	1134119	22.85	ppb	# 98
92)	1,3-Dichlorobenzene	11.225	146	445749	21.00	ppb	# 98
93)	Limonene	11.225	68	251927	27.31	ppb	# 98
94)	p-Isopropyltoluene	11.270	119	967679	22.47	ppb	# 99
95)	1,4-Dichlorobenzene	11.339	146	438283	20.61	ppb	# 99
96)	1,2,3-Trimethylbenzene	11.367	105	713727	17.83	ppb	# 99
97)	p-Diethylbenzene	11.704	105	520655	22.62	ppb	# 88
98)	1,2-Dichlorobenzene	11.737	146	349756	19.98	ppb	# 96
99)	n-Butylbenzene	11.729	91	1024938	23.54	ppb	# 74
100)	trans-Decahydronaphtha...	11.757	67	188675	23.23	ppb	# 63
101)	n-Undecane	11.882	57	151692	19.33	ppb	# 100
102)	hexachloroethane	12.057	117	153092	23.01	ppb	# 65
103)	cis-Decahydronaphthalene	12.394	81	188998	22.24	ppb	# 97
104)	1,2-Dibromo-3-chloropr...	12.628	75	11678	15.42	ppb	# 99
105)	1,2,4,5-Tetramethylben...	12.589	119	694269	19.77	ppb	# 97
106)	nitrobenzene	12.833	77	763m	7.64	ppb	# 97
107)	1,2,4-Trichlorobenzene	13.571	180	138568	15.16	ppb	# 98
108)	Hexachloro-1,3-Butadiene	13.743	225	89363	16.60	ppb	# 98
109)	Naphthalene	13.866	128	186198	12.45	ppb	# 97
110)	1,2,3-Trichlorobenzene	14.119	180	80905	12.47	ppb	# 97

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

Data Path : C:\msdchem\1\DATA\092623\
Data File : QV6251900.D
Acq On : 26 Sep 2023 7:07 pm
InstName : QV0A6
Operator : JTG
Sample : SEO-CAL5
Misc : QB0V6092623A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 10:13:03 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Tue Sep 12 12:59:02 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251901.D
 Acq On : 26 Sep 2023 7:32 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL6
 Misc : QBQV6092623A
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 27 10:15:30 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.694	70	154075	10.00	ppb	#-0.01
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	621705	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	206294	10.00	ppb	# 0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	152170	9.26	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	92.60%	
56) Toluene-d8 (SURR)	7.233	98	854878	10.37	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	103.70%	
79) p-Bromofluorobenzene (...)	10.021	95	286454	10.76	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	107.60%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	420727	38.22	ppb	# 1
3) Freon-22	1.532	51	425750	39.17	ppb	# 98
4) Chloromethane	1.688	50	380012	36.53	ppb	# 41
5) Vinyl Chloride	1.774	62	473221	44.82	ppb	# 48
6) Bromomethane	2.091	94	194055	31.69	ppb	65
7) Chloroethane	2.200	64	350420	36.70	ppb	90
8) Trichlorofluoromethane	2.450	101	754459m	37.41	ppb	
9) Ethanol	2.609	45	51428	977.66	ppb	# 1
10) Ethyl Ether	2.723	45	170332	30.44	ppb	# 27
11) Freon-113	2.959	101	485101	38.47	ppb	99
12) 1,1-Dichloroethylene	2.945	61	711474	39.06	ppb	86
13) Acrolein	2.848	56	26003	30.24	ppb	# 83
14) Acetone	2.976	43	39520m	20.74	ppb	
15) Iodomethane	3.087	142	526818	35.39	ppb	98
16) Allyl Chloride	3.296	76	292375	41.38	ppb	# 100
17) Methyl Acetate	3.282	43	103055m	28.78	ppb	
18) Carbon disulfide	3.165	76	1296406	38.86	ppb	100
19) tert-Butyl Alcohol (TBA)	3.521	59	10029	14.34	ppb	# 1
20) Methylene Chloride	3.416	49	544428	35.57	ppb	# 71
21) Acrylonitrile	3.619	53	54999	30.74	ppb	# 68
22) trans-1,2-Dichloroethy...	3.680	61	694516	37.94	ppb	94
23) tert-Butyl Methyl Ethe...	3.674	73	737699	30.31	ppb	# 88
24) Hexane	3.947	57	743106	38.12	ppb	# 19
25) 1,1-Dichloroethane	4.086	63	898239	37.31	ppb	99
26) Vinyl Acetate	4.083	43	336622	39.45	ppb	# 99
27) Diisopropyl ether (DIPE)	4.119	45	1195869	35.55	ppb	# 95
28) Ethyl-tert-Butyl ether...	4.456	59	1101171	33.53	ppb	# 85
29) cis-1,2-Dichloroethylene	4.612	61	758951	37.74	ppb	92
30) 2-Butanone	4.598	72	18586	29.10	ppb	# 95
31) 2,2-Dichloropropane	4.620	77	704229	43.54	ppb	# 56
32) Tetrahydrofuran	4.865	42	35380	25.17	ppb	# 21
33) Bromochloromethane	4.832	49	306593	34.39	ppb	# 65
34) Chloroform	4.926	83	845392	36.05	ppb	# 84
35) 1,1,1-Trichloroethane	5.088	97	824003	38.47	ppb	# 71
36) Cyclohexane	5.196	56	1934874m	38.85	ppb	
37) 1,1-Dichloropropylene	5.238	75	663452	38.63	ppb	# 82
39) Carbon Tetrachloride	5.238	117	721111	40.87	ppb	99
40) tert-Amyl alcohol (TAA)	5.430	59	65240	191.39	ppb	# 79
41) 1,2-Dichloroethane	5.463	62	440683	33.18	ppb	99
42) Benzene	5.422	78	1903529	37.09	ppb	90
43) tert-Amyl methyl ether...	5.544	73	841493	31.90	ppb	# 99
45) Trichloroethylene	6.045	95	550648	38.83	ppb	93
46) Methyl Cyclohexane	6.281	83	973379	40.72	ppb	85
47) Methyl Methacrylate	6.331	69	140453	31.09	ppb	75
48) Dibromomethane	6.373	93	200087	34.21	ppb	95
49) Bromodichloromethane	6.537	83	559190	38.03	ppb	# 93
50) 1,2-Dichloropropane	6.290	63	458334	38.45	ppb	# 99
51) 1,4-Dioxane	6.365	88	24835m	392.49	ppb	

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251901.D
 Acq On : 26 Sep 2023 7:32 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL6
 Misc : QBQV6092623A
 ALS Vial : 10 Sample Multiplier: 1

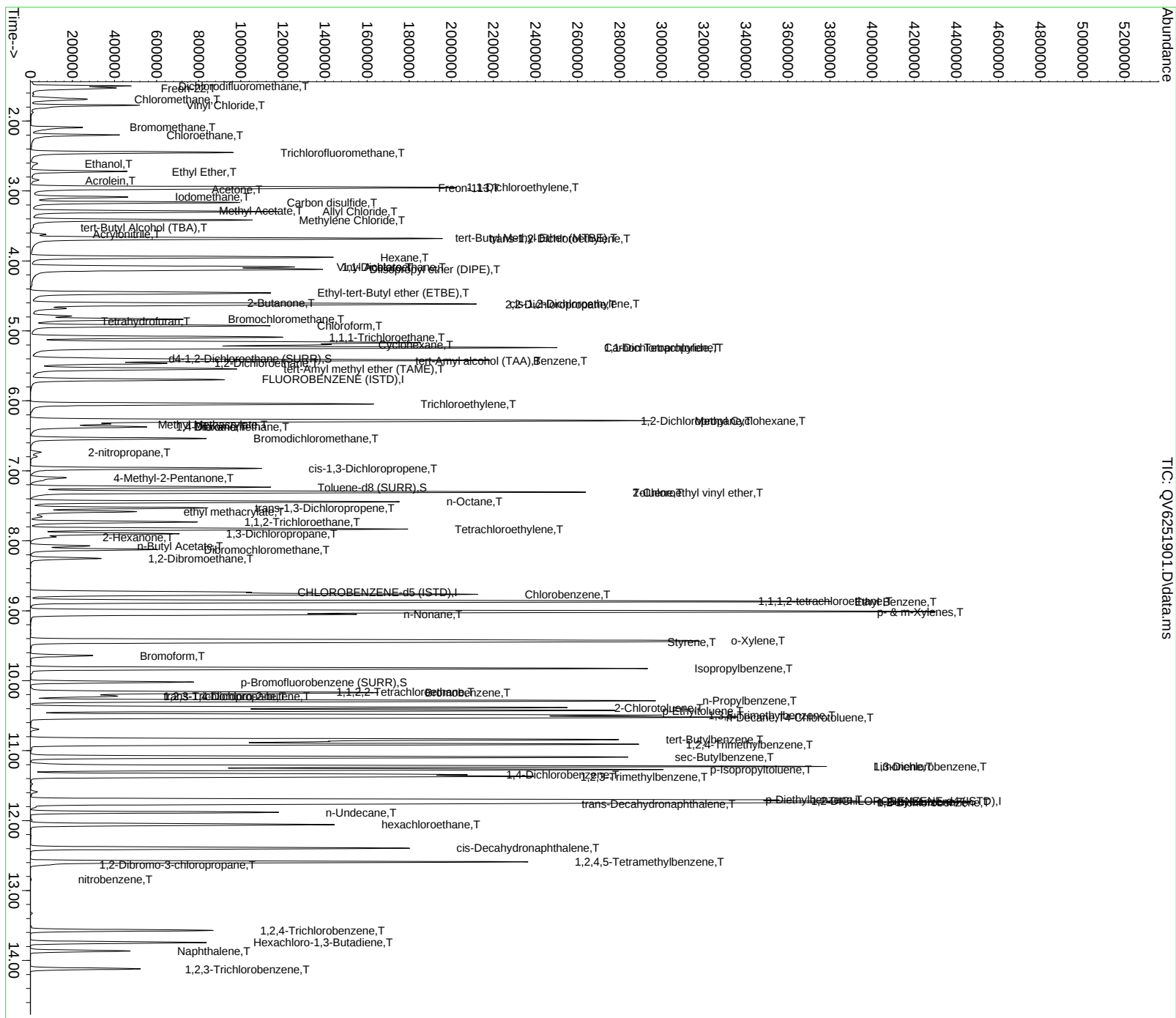
Quant Time: Sep 27 10:15:30 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52)	2-nitropropane	6.735	43	36389	32.96	ppb	# 100
53)	2-Chloroethyl vinyl ether	7.305	63	152433	37.96	ppb	# 93
54)	cis-1,3-Dichloropropene	6.966	75	666710	39.32	ppb	# 78
55)	4-Methyl-2-Pentanone	7.099	43	128480	28.09	ppb	# 78
57)	Toluene	7.305	91	2068697	38.07	ppb	99
58)	n-Octane	7.441	43	736954	40.16	ppb	98
59)	trans-1,3-Dichloropropene	7.530	75	483798	38.18	ppb	99
60)	ethyl methacrylate	7.583	69	284599	30.95	ppb	# 100
61)	1,1,2-Trichloroethane	7.731	97	272934	33.09	ppb	91
62)	1,3-Dichloropropane	7.898	76	456404	33.82	ppb	# 86
63)	Tetrachloroethylene	7.834	166	564168	38.07	ppb	# 100
64)	2-Hexanone	7.948	43	84300	26.93	ppb	# 1
65)	n-Butyl Acetate	8.073	56	107388	28.65	ppb	# 29
66)	Dibromochloromethane	8.126	129	338600	36.27	ppb	97
67)	1,2-Dibromoethane	8.254	107	245505	33.47	ppb	98
68)	Chlorobenzene	8.766	112	1264955	37.88	ppb	# 93
69)	1,1,1,2-tetrachloroethane	8.860	131	425099	39.84	ppb	99
70)	Ethyl Benzene	8.871	91	2229224	39.82	ppb	98
71)	p- & m-Xylenes	9.013	91	3462139	78.89	ppb	96
72)	n-Nonane	9.052	43	509075	39.99	ppb	94
73)	o-Xylene	9.425	91	1740621	39.02	ppb	99
74)	Styrene	9.445	104	1291896	38.89	ppb	97
75)	Bromoform	9.642	173	149795	34.44	ppb	# 79
77)	p-Ethyltoluene	10.427	105	1964056	44.11	ppb	# 82
78)	Isopropylbenzene	9.826	105	2150752	43.94	ppb	98
80)	1,1,2,2-Tetrachloroethane	10.160	83	224663	35.69	ppb	# 69
81)	Bromobenzene	10.171	77	687313	41.34	ppb	93
82)	trans-1,4-Dichloro-2-b...	10.224	75	221485	35.75	ppb	# 49
83)	1,2,3-Trichloropropane	10.224	110	64949	34.51	ppb	83
84)	n-Propylbenzene	10.288	91	2618077	44.44	ppb	99
85)	2-Chlorotoluene	10.385	91	1550103	43.35	ppb	99
86)	4-Chlorotoluene	10.521	91	1665834	43.83	ppb	97
87)	n-Decane	10.527	43	346845	47.76	ppb	87
88)	1,3,5-Trimethylbenzene	10.494	105	1725421	43.64	ppb	# 68
89)	tert-Butylbenzene	10.841	119	1809708	43.77	ppb	95
90)	1,2,4-Trimethylbenzene	10.908	105	1715564	42.93	ppb	99
91)	sec-Butylbenzene	11.095	105	2246887	44.00	ppb	98
92)	1,3-Dichlorobenzene	11.225	146	908339	41.60	ppb	98
93)	Limonene	11.225	68	486283	51.25	ppb	98
94)	p-Isopropyltoluene	11.270	119	1926124	43.48	ppb	98
95)	1,4-Dichlorobenzene	11.342	146	889476	40.66	ppb	98
96)	1,2,3-Trimethylbenzene	11.367	105	1400817	34.02	ppb	99
97)	p-Diethylbenzene	11.701	105	1044534	44.11	ppb	# 99
98)	1,2-Dichlorobenzene	11.737	146	711410	39.50	ppb	# 87
99)	n-Butylbenzene	11.729	91	1991767	44.47	ppb	95
100)	trans-Decahydronaphtha...	11.757	67	360361	43.13	ppb	88
101)	n-Undecane	11.882	57	441034	54.62	ppb	# 63
102)	hexachloroethane	12.057	117	329837	48.19	ppb	# 100
103)	cis-Decahydronaphthalene	12.394	81	374414	42.83	ppb	# 65
104)	1,2-Dibromo-3-chloropr...	12.630	75	25892	33.24	ppb	# 68
105)	1,2,4,5-Tetramethylben...	12.591	119	1429172	39.56	ppb	100
106)	nitrobenzene	12.845	77	1740m	16.95	ppb	
107)	1,2,4-Trichlorobenzene	13.571	180	295436	31.41	ppb	97
108)	Hexachloro-1,3-Butadiene	13.743	225	187969	33.95	ppb	99
109)	Naphthalene	13.863	128	413143	26.86	ppb	98
110)	1,2,3-Trichlorobenzene	14.122	180	175538	26.30	ppb	96

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

Data Path : C:\msdchem\1\DATA\092623\
Data File : QV6251901.D
Acq On : 26 Sep 2023 7:32 pm
InstName : QV0A6
Operator : JTG
Sample : SEO-CAL6
Misc : QBQV6092623A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 27 10:15:30 2023
Quant Method : C:\msdchem\2\METHODS\V06L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Last Update : Tue Sep 12 12:59:02 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251902.D
 Acq On : 26 Sep 2023 7:56 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL7
 Misc : QBQV6092623A
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 27 10:21:05 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	158914	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	641886	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	214711	10.00	ppb	# 0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	156500	9.24	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	92.40%	
56) Toluene-d8 (SURR)	7.235	98	888609	10.44	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	104.40%	
79) p-Bromofluorobenzene (...)	10.020	95	296464	10.70	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	107.00%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.498	85	934592m	82.32	ppb	
3) Freon-22	1.529	51	932650	83.18	ppb	# 98
4) Chloromethane	1.688	50	880047	82.02	ppb	# 41
5) Vinyl Chloride	1.774	62	1029081	94.49	ppb	# 47
6) Bromomethane	2.091	94	526813m	83.42	ppb	
7) Chloroethane	2.200	64	759044m	77.07	ppb	
8) Trichlorofluoromethane	2.450	101	1676755m	80.60	ppb	
9) Ethanol	2.603	45	117018	2156.81	ppb	# 1
10) Ethyl Ether	2.720	45	379745	65.79	ppb	# 63
11) Freon-113	2.959	101	1070665	82.33	ppb	99
12) 1,1-Dichloroethylene	2.945	61	1504106	80.07	ppb	83
13) Acrolein	2.845	56	63797	71.92	ppb	# 83
14) Acetone	2.976	43	87461	44.49	ppb	# 94
15) Iodomethane	3.087	142	1170932m	76.26	ppb	
16) Allyl Chloride	3.296	76	620408	85.13	ppb	# 100
17) Methyl Acetate	3.279	43	239688	64.90	ppb	# 96
18) Carbon disulfide	3.165	76	2910502	84.58	ppb	100
19) tert-Butyl Alcohol (TBA)	3.510	59	25390	35.21	ppb	# 1
20) Methylene Chloride	3.415	49	1203894	76.27	ppb	# 69
21) Acrylonitrile	3.619	53	127445	69.07	ppb	# 67
22) trans-1,2-Dichloroethy...	3.680	61	1491232	78.98	ppb	93
23) tert-Butyl Methyl Ethe...	3.671	73	1715861	68.35	ppb	# 88
24) Hexane	3.947	57	1626496	80.90	ppb	# 47
25) 1,1-Dichloroethane	4.086	63	1941563	78.20	ppb	98
26) Vinyl Acetate	4.083	43	749076	85.11	ppb	# 100
27) Diisopropyl ether (DIPE)	4.119	45	2589447	74.64	ppb	# 94
28) Ethyl-tert-Butyl ether...	4.456	59	2510617	74.13	ppb	# 95
29) cis-1,2-Dichloroethylene	4.612	61	1616911	77.95	ppb	91
30) 2-Butanone	4.595	72	42761m	64.91	ppb	
31) 2,2-Dichloropropane	4.623	77	1586529	95.09	ppb	# 65
32) Tetrahydrofuran	4.862	42	86444	59.63	ppb	# 19
33) Bromochloromethane	4.834	49	668368	72.70	ppb	# 79
34) Chloroform	4.926	83	1893068	78.27	ppb	# 93
35) 1,1,1-Trichloroethane	5.090	97	1867152	84.51	ppb	95
36) Cyclohexane	5.199	56	4093082m	79.69	ppb	
37) 1,1-Dichloropropylene	5.238	75	1426225	80.51	ppb	# 78
39) Carbon Tetrachloride	5.241	117	1632750	89.71	ppb	99
40) tert-Amyl alcohol (TAA)	5.421	59	170008	483.55	ppb	# 69
41) 1,2-Dichloroethane	5.466	62	1018293	74.33	ppb	99
42) Benzene	5.419	78	4136660	78.14	ppb	90
43) tert-Amyl methyl ether...	5.544	73	1981661	72.84	ppb	# 90
45) Trichloroethylene	6.045	95	1237427	84.52	ppb	95
46) Methyl Cyclohexane	6.281	83	2094497	84.86	ppb	82
47) Methyl Methacrylate	6.334	69	331132	70.98	ppb	# 28
48) Dibromomethane	6.373	93	467426	77.41	ppb	96
49) Bromodichloromethane	6.537	83	1286649	84.75	ppb	# 93
50) 1,2-Dichloropropane	6.292	63	942357	76.58	ppb	# 98
51) 1,4-Dioxane	6.365	88	53966	826.06	ppb	# 86

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251902.D
 Acq On : 26 Sep 2023 7:56 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL7
 Misc : QBQV6092623A
 ALS Vial : 11 Sample Multiplier: 1

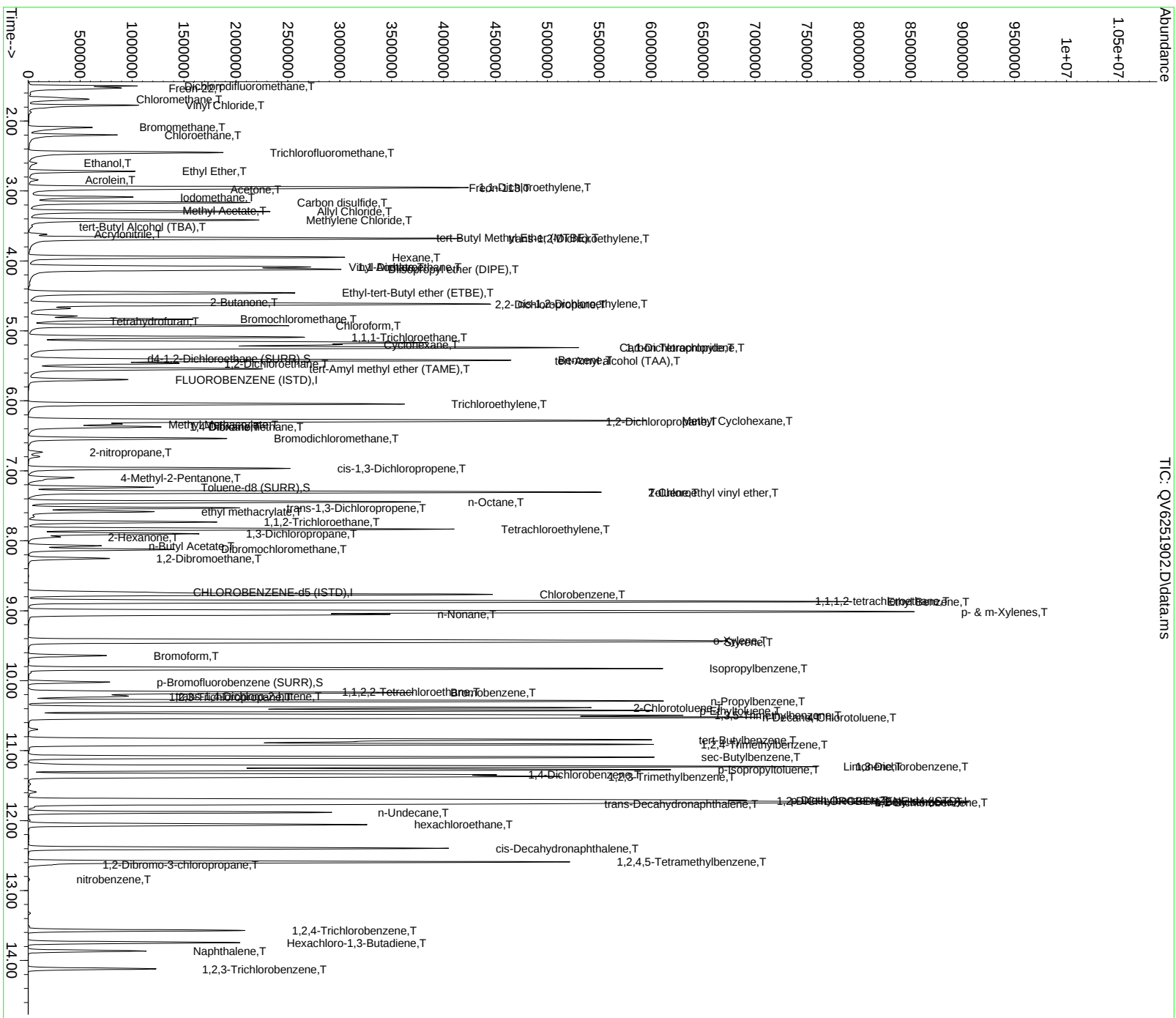
Quant Time: Sep 27 10:21:05 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52)	2-nitropropane	6.732	43	99758	87.52	ppb	# 100
53)	2-Chloroethyl vinyl ether	7.305	63	334502	80.68	ppb	# 93
54)	cis-1,3-Dichloropropene	6.966	75	1526437	87.18	ppb	# 78
55)	4-Methyl-2-Pentanone	7.102	43	313019	66.28	ppb	# 78
57)	Toluene	7.305	91	4483778	79.92	ppb	# 99
58)	n-Octane	7.444	43	1596591	84.26	ppb	# 98
59)	trans-1,3-Dichloropropene	7.530	75	1138929	87.06	ppb	# 99
60)	ethyl methacrylate	7.583	69	672803	70.86	ppb	# 100
61)	1,1,2-Trichloroethane	7.731	97	625052	73.39	ppb	# 91
62)	1,3-Dichloropropane	7.900	76	1044585	74.97	ppb	# 54
63)	Tetrachloroethylene	7.834	166	1293738	84.55	ppb	# 100
64)	2-Hexanone	7.945	43	204696	63.33	ppb	# 1
65)	n-Butyl Acetate	8.073	56	258635	66.83	ppb	# 29
66)	Dibromochloromethane	8.123	129	804349	83.46	ppb	# 97
67)	1,2-Dibromoethane	8.251	107	568789	75.10	ppb	# 97
68)	Chlorobenzene	8.768	112	2813498	81.60	ppb	# 92
69)	1,1,1,2-tetrachloroethane	8.863	131	959425	87.09	ppb	# 98
70)	Ethyl Benzene	8.871	91	4621912	79.96	ppb	# 100
71)	p- & m-Xylenes	9.013	91	7082617	156.32	ppb	# 98
72)	n-Nonane	9.052	43	1149590	87.47	ppb	# 92
73)	o-Xylene	9.425	91	3654991	79.36	ppb	# 100
74)	Styrene	9.445	104	2766638	80.66	ppb	# 97
75)	Bromoform	9.642	173	370747	82.55	ppb	# 79
77)	p-Ethyltoluene	10.427	105	4227500	91.21	ppb	# 83
78)	Isopropylbenzene	9.826	105	4626833	90.83	ppb	# 98
80)	1,1,2,2-Tetrachloroethane	10.160	83	498035	76.03	ppb	# 69
81)	Bromobenzene	10.173	77	1498033	86.57	ppb	# 95
82)	trans-1,4-Dichloro-2-b...	10.221	75	531690	82.45	ppb	# 49
83)	1,2,3-Trichloropropane	10.226	110	147860	75.48	ppb	# 80
84)	n-Propylbenzene	10.290	91	5500442	89.71	ppb	# 98
85)	2-Chlorotoluene	10.388	91	3298351	88.63	ppb	# 98
86)	4-Chlorotoluene	10.524	91	3456157	87.36	ppb	# 98
87)	n-Decane	10.530	43	804316	106.41	ppb	# 56
88)	1,3,5-Trimethylbenzene	10.493	105	3697597	89.85	ppb	# 68
89)	tert-Butylbenzene	10.844	119	3998490	92.91	ppb	# 94
90)	1,2,4-Trimethylbenzene	10.911	105	3698106	88.92	ppb	# 99
91)	sec-Butylbenzene	11.094	105	4846571	91.19	ppb	# 97
92)	1,3-Dichlorobenzene	11.225	146	2004135	88.18	ppb	# 98
93)	Limonene	11.231	68	991003	100.34	ppb	# 89
94)	p-Isopropyltoluene	11.272	119	4251183	92.20	ppb	# 97
95)	1,4-Dichlorobenzene	11.342	146	2004738	88.04	ppb	# 98
96)	1,2,3-Trimethylbenzene	11.370	105	3036138	70.84	ppb	# 98
97)	p-Diethylbenzene	11.707	105	2250449	91.32	ppb	# 96
98)	1,2-Dichlorobenzene	11.740	146	1567036	83.60	ppb	# 88
99)	n-Butylbenzene	11.732	91	4093555	87.82	ppb	# 93
100)	trans-Decahydronaphtha...	11.759	67	775904	89.23	ppb	# 84
101)	n-Undecane	11.885	57	1115487	132.74	ppb	# 94
102)	hexachloroethane	12.057	117	777961	109.21	ppb	# 100
103)	cis-Decahydronaphthalene	12.397	81	852552	93.71	ppb	# 66
104)	1,2-Dibromo-3-chloropr...	12.627	75	61592	75.96	ppb	# 99
105)	1,2,4,5-Tetramethylben...	12.591	119	3225735	85.78	ppb	# 99
106)	nitrobenzene	12.842	77	4644m	43.46	ppb	#
107)	1,2,4-Trichlorobenzene	13.571	180	706874	72.21	ppb	# 96
108)	Hexachloro-1,3-Butadiene	13.746	225	451242	78.30	ppb	# 99
109)	Naphthalene	13.866	128	976668	61.01	ppb	# 99
110)	1,2,3-Trichlorobenzene	14.121	180	418311	60.23	ppb	# 96

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

Data Path : C:\msdchem\1\DATA\092623\
Data File : QV6251902.D
Acq On : 26 Sep 2023 7:56 pm
InstName : QV0A6
Operator : JTG
Sample : SEO-CAL7
Misc : Q8QV6092623A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 27 10:21:05 2023
Quant Method : C:\msdchem\2\METHODS\V06L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Tue Sep 12 12:59:02 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251903.D
 Acq On : 26 Sep 2023 8:20 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL8
 Misc : QBQV6092623A
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 27 10:24:06 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	158426	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	633801	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	202475	10.00	ppb	# 0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	153053	9.06	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	90.60%	
56) Toluene-d8 (SURR)	7.233	98	885676	10.54	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	105.40%	
79) p-Bromofluorobenzene (...)	10.021	95	293087	11.22	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	112.20%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	1393585m	123.12	ppb	
3) Freon-22	1.532	51	1372114	122.76	ppb	# 98
4) Chloromethane	1.688	50	1375560	128.59	ppb	# 41
5) Vinyl Chloride	1.774	62	1524954m	140.45	ppb	
6) Bromomethane	2.091	94	864139	137.26	ppb	65
7) Chloroethane	2.200	64	1110643m	113.12	ppb	
8) Trichlorofluoromethane	2.450	101	2492050m	120.16	ppb	
9) Ethanol	2.600	45	159997	2958.06	ppb	# 1
10) Ethyl Ether	2.720	45	555077m	96.46	ppb	
11) Freon-113	2.959	101	1558428	120.21	ppb	98
12) 1,1-Dichloroethylene	2.945	61	2126370	113.54	ppb	# 81
13) Acrolein	2.845	56	98112	110.95	ppb	# 83
14) Acetone	2.976	43	126885m	64.75	ppb	
15) Iodomethane	3.087	142	1734053m	113.28	ppb	
16) Allyl Chloride	3.296	76	886065	121.95	ppb	# 100
17) Methyl Acetate	3.279	43	354770	96.36	ppb	# 96
18) Carbon disulfide	3.165	76	4299063	125.32	ppb	100
19) tert-Butyl Alcohol (TBA)	3.513	59	38412	53.43	ppb	# 1
20) Methylene Chloride	3.416	49	1747763	111.06	ppb	# 67
21) Acrylonitrile	3.619	53	196344	106.74	ppb	# 68
22) trans-1,2-Dichloroethy...	3.683	61	2122484	112.76	ppb	# 74
23) tert-Butyl Methyl Ethe...	3.672	73	2460981	98.34	ppb	# 88
24) Hexane	3.947	57	2303936	114.95	ppb	# 20
25) 1,1-Dichloroethane	4.086	63	2783162	112.44	ppb	98
26) Vinyl Acetate	4.081	43	1051416	119.83	ppb	# 99
27) Diisopropyl ether (DIPE)	4.120	45	3619606	104.66	ppb	# 94
28) Ethyl-tert-Butyl ether...	4.459	59	3639853	107.80	ppb	# 85
29) cis-1,2-Dichloroethylene	4.612	61	2266628	109.61	ppb	89
30) 2-Butanone	4.595	72	62441m	95.07	ppb	
31) 2,2-Dichloropropane	4.623	77	2330473	140.11	ppb	# 65
32) Tetrahydrofuran	4.860	42	128261	88.75	ppb	# 16
33) Bromochloromethane	4.835	49	961086	104.86	ppb	# 77
34) Chloroform	4.926	83	2800532	116.14	ppb	# 84
35) 1,1,1-Trichloroethane	5.091	97	2768044	125.67	ppb	# 82
36) Cyclohexane	5.199	56	5742469m	112.14	ppb	
37) 1,1-Dichloropropylene	5.238	75	1994775	112.95	ppb	# 74
39) Carbon Tetrachloride	5.241	117	2384264	131.41	ppb	99
40) tert-Amyl alcohol (TAA)	5.419	59	244174	696.64	ppb	# 68
41) 1,2-Dichloroethane	5.463	62	1508279	110.44	ppb	100
42) Benzene	5.419	78	5921195	112.20	ppb	91
43) tert-Amyl methyl ether...	5.544	73	2926148	107.89	ppb	# 99
45) Trichloroethylene	6.045	95	1826278	126.33	ppb	96
46) Methyl Cyclohexane	6.281	83	2935594	120.46	ppb	80
47) Methyl Methacrylate	6.331	69	495633	107.60	ppb	# 28
48) Dibromomethane	6.373	93	696026	116.74	ppb	96
49) Bromodichloromethane	6.537	83	1903858	127.00	ppb	# 93
50) 1,2-Dichloropropane	6.292	63	1277060	105.10	ppb	# 83
51) 1,4-Dioxane	6.362	88	72511	1124.09	ppb	# 86

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251903.D
 Acq On : 26 Sep 2023 8:20 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL8
 Misc : QBQV6092623A
 ALS Vial : 12 Sample Multiplier: 1

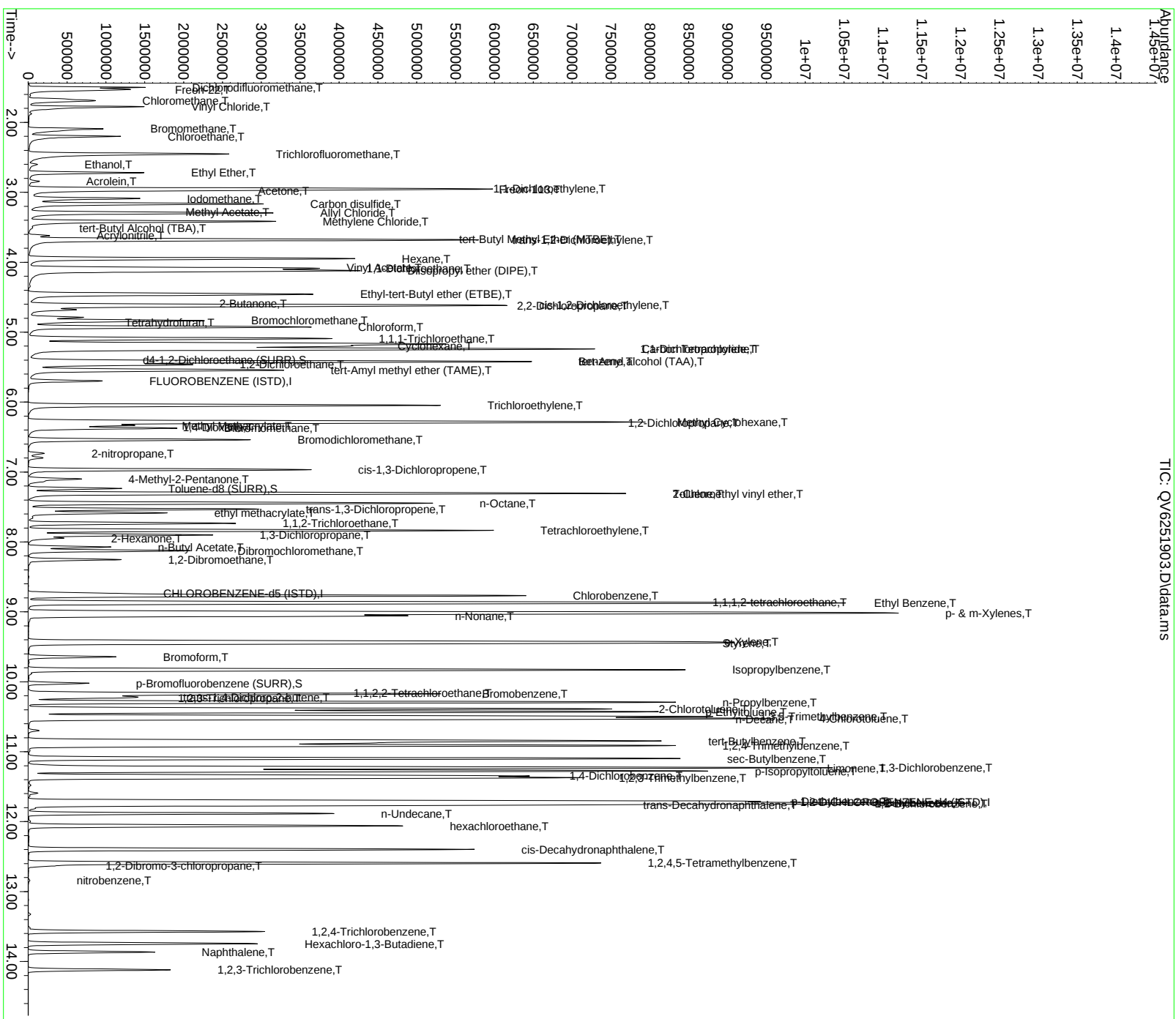
Quant Time: Sep 27 10:24:06 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52)	2-nitropropane	6.732	43	156249	138.83	ppb	# 100
53)	2-Chloroethyl vinyl ether	7.305	63	483003	117.98	ppb	# 93
54)	cis-1,3-Dichloropropene	6.966	75	2251401	130.23	ppb	# 78
55)	4-Methyl-2-Pentanone	7.099	43	470175	100.82	ppb	# 78
57)	Toluene	7.305	91	6426871	116.02	ppb	# 98
58)	n-Octane	7.444	43	2193953	117.27	ppb	# 98
59)	trans-1,3-Dichloropropene	7.531	75	1694068	131.14	ppb	# 99
60)	ethyl methacrylate	7.583	69	999534	106.61	ppb	# 100
61)	1,1,2-Trichloroethane	7.734	97	921283	109.55	ppb	# 90
62)	1,3-Dichloropropane	7.898	76	1526397	110.94	ppb	# 62
63)	Tetrachloroethylene	7.834	166	1940899	128.47	ppb	# 77
64)	2-Hexanone	7.945	43	306876	96.15	ppb	# 1
65)	n-Butyl Acetate	8.073	56	381541	99.85	ppb	# 29
66)	Dibromochloromethane	8.126	129	1214745	127.65	ppb	# 97
67)	1,2-Dibromoethane	8.251	107	848830	113.51	ppb	# 98
68)	Chlorobenzene	8.769	112	4122264	121.08	ppb	# 91
69)	1,1,1,2-tetrachloroethane	8.860	131	1389527	127.74	ppb	# 97
70)	Ethyl Benzene	8.874	91	6328725	110.88	ppb	# 98
71)	p- & m-Xylenes	9.016	91	9619669m	215.02	ppb	# 90
72)	n-Nonane	9.055	43	1597828	123.13	ppb	# 100
73)	o-Xylene	9.425	91	5116405	112.51	ppb	# 97
74)	Styrene	9.448	104	3917280	115.66	ppb	# 80
75)	Bromoform	9.642	173	564553	127.31	ppb	# 67
77)	p-Ethyltoluene	10.427	105	6085487	139.24	ppb	# 97
78)	Isopropylbenzene	9.829	105	6607527	137.55	ppb	# 69
80)	1,1,2,2-Tetrachloroethane	10.160	83	702544	113.72	ppb	# 92
81)	Bromobenzene	10.174	77	2128832	130.46	ppb	# 49
82)	trans-1,4-Dichloro-2-b...	10.224	75	793111	130.41	ppb	# 79
83)	1,2,3-Trichloropropane	10.227	110	218349	118.20	ppb	# 97
84)	n-Propylbenzene	10.291	91	7674274	132.74	ppb	# 98
85)	2-Chlorotoluene	10.388	91	4695259	133.78	ppb	# 98
86)	4-Chlorotoluene	10.524	91	4788913	128.37	ppb	# 82
87)	n-Decane	10.533	43	1066338	149.61	ppb	# 68
88)	1,3,5-Trimethylbenzene	10.496	105	5245953	135.18	ppb	# 94
89)	tert-Butylbenzene	10.844	119	5745675	141.58	ppb	# 99
90)	1,2,4-Trimethylbenzene	10.911	105	5302712	135.20	ppb	# 96
91)	sec-Butylbenzene	11.097	105	6884442	137.36	ppb	# 97
92)	1,3-Dichlorobenzene	11.228	146	2904375	135.51	ppb	# 68
93)	Limonene	11.234	68	1315416	141.24	ppb	# 97
94)	p-Isopropyltoluene	11.275	119	6090182	140.06	ppb	# 98
95)	1,4-Dichlorobenzene	11.345	146	2943370	137.08	ppb	# 98
96)	1,2,3-Trimethylbenzene	11.373	105	4374137	108.22	ppb	# 92
97)	p-Diethylbenzene	11.707	105	3176897	136.70	ppb	# 88
98)	1,2-Dichlorobenzene	11.740	146	2215207	125.32	ppb	# 91
99)	n-Butylbenzene	11.735	91	5503399	125.20	ppb	# 40
100)	trans-Decahydronaphtha...	11.760	67	1074629	131.05	ppb	# 94
101)	n-Undecane	11.885	57	1523598	192.25	ppb	# 100
102)	hexachloroethane	12.060	117	1162244	173.01	ppb	# 67
103)	cis-Decahydronaphthalene	12.397	81	1240736	144.62	ppb	# 99
104)	1,2-Dibromo-3-chloropr...	12.628	75	91695	119.93	ppb	# 99
105)	1,2,4,5-Tetramethylben...	12.591	119	4687008	132.17	ppb	# 99
106)	nitrobenzene	12.839	77	7314m	72.58	ppb	# 96
107)	1,2,4-Trichlorobenzene	13.571	180	1053838	114.16	ppb	# 99
108)	Hexachloro-1,3-Butadiene	13.746	225	693228	127.55	ppb	# 99
109)	Naphthalene	13.866	128	1439117	95.34	ppb	# 99
110)	1,2,3-Trichlorobenzene	14.119	180	615656	94.00	ppb	# 97

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

Data Path : C:\msdchem\1\DATA\092623\
Data File : QV6251903.D
Acq On : 26 Sep 2023 8:20 pm
InstName : QV0A6
Operator : JTG
Sample : SEO-CAL8
Misc : QV6092623A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 27 10:24:06 2023
Quant Method : C:\msdchem\2\METHODS\V06L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Tue Sep 12 12:59:02 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251904.D
 Acq On : 26 Sep 2023 8:45 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL9
 Misc : QBQV6092623A
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 27 10:34:14 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	160366	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	629758	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.718	152	194290	10.00	ppb	# 0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	148778	8.70	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	87.00%	
56) Toluene-d8 (SURR)	7.236	98	888927	10.64	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	106.40%	
79) p-Bromofluorobenzene (...)	10.021	95	287165	11.45	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	114.50%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	1797760m	156.91	ppb	
3) Freon-22	1.526	51	1774213	156.81	ppb	# 98
4) Chloromethane	1.685	50	1854410	171.26	ppb	# 40
5) Vinyl Chloride	1.774	62	1962059m	178.52	ppb	
6) Bromomethane	2.091	94	1185294	185.99	ppb	65
7) Chloroethane	2.200	64	1414342m	142.31	ppb	
8) Trichlorofluoromethane	2.450	101	3207093m	152.77	ppb	
9) Ethanol	2.600	45	201849	3686.68	ppb	# 1
10) Ethyl Ether	2.720	45	696947	119.65	ppb	# 62
11) Freon-113	2.959	101	1965578	149.78	ppb	97
12) 1,1-Dichloroethylene	2.945	61	2622551m	138.35	ppb	
13) Acrolein	2.842	56	126795m	141.65	ppb	
14) Acetone	2.976	43	159284m	80.29	ppb	
15) Iodomethane	3.087	142	2255485m	145.56	ppb	
16) Allyl Chloride	3.296	76	1123506	152.76	ppb	# 100
17) Methyl Acetate	3.279	43	441311	118.42	ppb	# 96
18) Carbon disulfide	3.165	76	5504321	158.51	ppb	100
19) tert-Butyl Alcohol (TBA)	3.507	59	54743	75.22	ppb	# 1
20) Methylene Chloride	3.416	49	2202680	138.27	ppb	# 65
21) Acrylonitrile	3.619	53	250234	134.39	ppb	# 43
22) trans-1,2-Dichloroethy...	3.680	61	2637770	138.44	ppb	92
23) tert-Butyl Methyl Ethe...	3.669	73	3092422	122.07	ppb	# 88
24) Hexane	3.947	57	2807926	138.40	ppb	# 20
25) 1,1-Dichloroethane	4.086	63	3492698	139.40	ppb	98
26) Vinyl Acetate	4.081	43	1279899	144.11	ppb	# 99
27) Diisopropyl ether (DIPE)	4.120	45	4411063	126.00	ppb	# 93
28) Ethyl-tert-Butyl ether...	4.456	59	4597223	134.51	ppb	# 95
29) cis-1,2-Dichloroethylene	4.612	61	2785988	133.09	ppb	# 88
30) 2-Butanone	4.595	72	78353m	117.86	ppb	
31) 2,2-Dichloropropane	4.623	77	2946809	175.03	ppb	# 56
32) Tetrahydrofuran	4.860	42	166391m	113.74	ppb	
33) Bromochloromethane	4.835	49	1200075	129.35	ppb	# 75
34) Chloroform	4.926	83	3588595	147.02	ppb	# 84
35) 1,1,1-Trichloroethane	5.091	97	3575428	160.36	ppb	# 71
36) Cyclohexane	5.199	56	6993276m	134.92	ppb	
37) 1,1-Dichloropropylene	5.241	75	2431439	136.01	ppb	# 71
39) Carbon Tetrachloride	5.244	117	3001086	163.40	ppb	99
40) tert-Amyl alcohol (TAA)	5.419	59	315218	888.45	ppb	# 82
41) 1,2-Dichloroethane	5.466	62	1923132	139.11	ppb	99
42) Benzene	5.422	78	7409219	138.70	ppb	91
43) tert-Amyl methyl ether...	5.544	73	3736765	136.11	ppb	# 99
45) Trichloroethylene	6.045	95	2345918	163.31	ppb	98
46) Methyl Cyclohexane	6.281	83	3576972	147.72	ppb	79
47) Methyl Methacrylate	6.331	69	631031	137.88	ppb	# 28
48) Dibromomethane	6.373	93	887894	149.87	ppb	97
49) Bromodichloromethane	6.540	83	2437224	163.62	ppb	# 92
50) 1,2-Dichloropropane	6.292	63	1527716	126.54	ppb	# 96
51) 1,4-Dioxane	6.359	88	91969	1434.88	ppb	# 83

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251904.D
 Acq On : 26 Sep 2023 8:45 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CAL9
 Misc : QBQV6092623A
 ALS Vial : 13 Sample Multiplier: 1

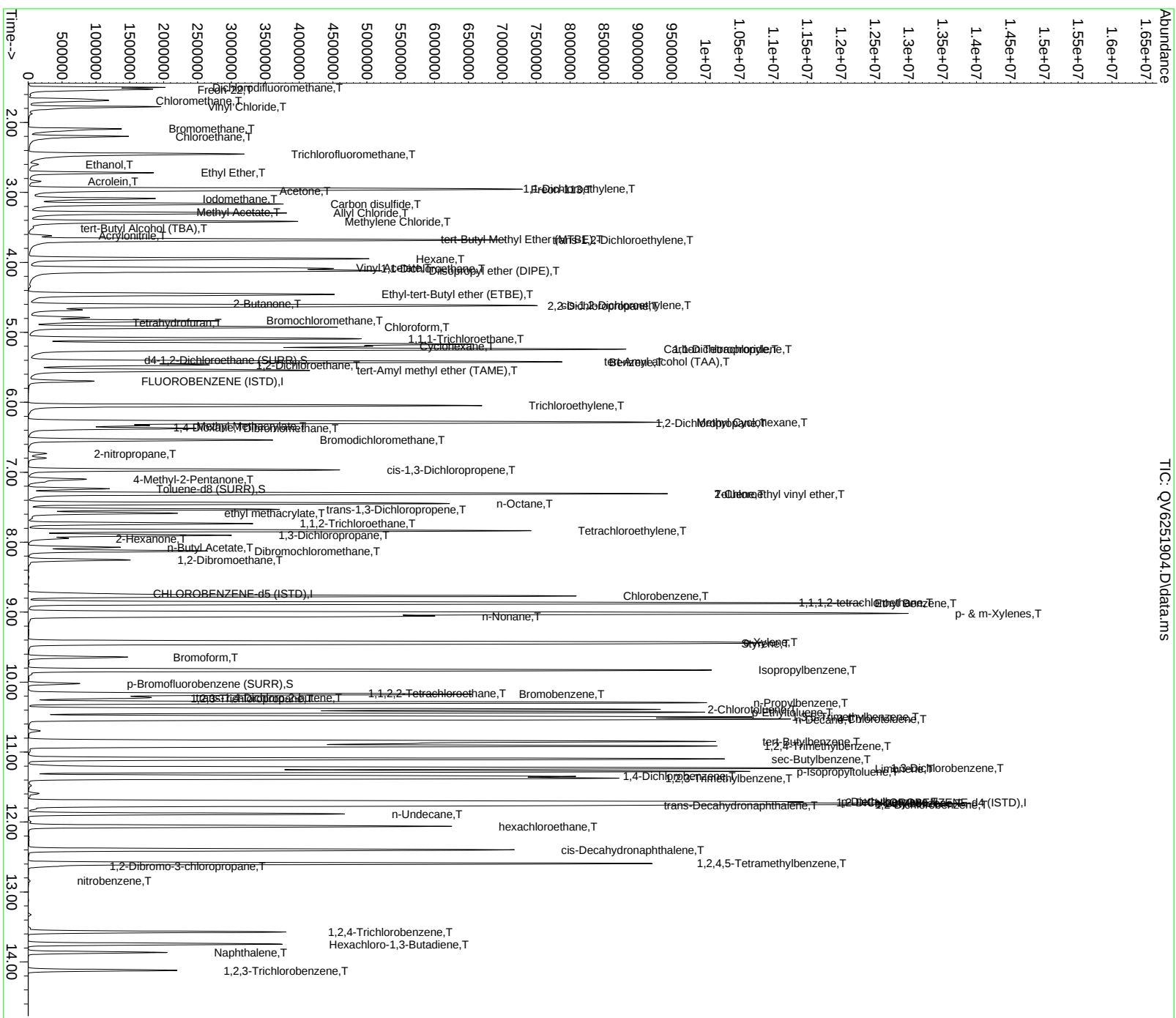
Quant Time: Sep 27 10:34:14 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Tue Sep 12 12:59:02 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
52)	2-nitropropane	6.732	43	204079	182.49	ppb	#	100
53)	2-Chloroethyl vinyl ether	7.305	63	600301	147.58	ppb	#	93
54)	cis-1,3-Dichloropropene	6.966	75	2855665	166.24	ppb	#	77
55)	4-Methyl-2-Pentanone	7.099	43	603496	130.25	ppb	#	79
57)	Toluene	7.305	91	7999475	145.34	ppb		98
58)	n-Octane	7.447	43	2641080	142.07	ppb		97
59)	trans-1,3-Dichloropropene	7.531	75	2155015	167.90	ppb		99
60)	ethyl methacrylate	7.586	69	1264975	135.79	ppb	#	100
61)	1,1,2-Trichloroethane	7.734	97	1166951	139.66	ppb		90
62)	1,3-Dichloropropane	7.901	76	1939295	141.86	ppb	#	62
63)	Tetrachloroethylene	7.837	166	2516891	167.66	ppb	#	100
64)	2-Hexanone	7.945	43	390435	123.12	ppb	#	1
65)	n-Butyl Acetate	8.073	56	482377	127.05	ppb	#	34
66)	Dibromochloromethane	8.126	129	1566161	165.63	ppb		96
67)	1,2-Dibromoethane	8.254	107	1082240	145.65	ppb		98
68)	Chlorobenzene	8.769	112	5214782	154.16	ppb	#	90
69)	1,1,1,2-tetrachloroethane	8.863	131	1736310	160.64	ppb		97
70)	Ethyl Benzene	8.877	91	7610280	134.19	ppb		97
71)	p- & m-Xylenes	9.019	91	11484036	258.34	ppb		99
72)	n-Nonane	9.055	43	1931303	149.78	ppb		89
73)	o-Xylene	9.425	91	6278761	138.95	ppb		100
74)	Styrene	9.450	104	4846675	144.02	ppb		97
75)	Bromoform	9.645	173	735908	167.02	ppb	#	79
77)	p-Ethyltoluene	10.430	105	7607842	181.40	ppb	#	83
78)	Isopropylbenzene	9.829	105	8233228	178.62	ppb		97
80)	1,1,2,2-Tetrachloroethane	10.160	83	867646	146.37	ppb	#	69
81)	Bromobenzene	10.174	77	2673183	170.71	ppb		90
82)	trans-1,4-Dichloro-2-b...	10.224	75	1008664	172.85	ppb	#	48
83)	1,2,3-Trichloropropane	10.227	110	277200	156.37	ppb		77
84)	n-Propylbenzene	10.293	91	9449535	170.33	ppb		96
85)	2-Chlorotoluene	10.388	91	5870536	174.32	ppb		98
86)	4-Chlorotoluene	10.527	91	5817231	162.50	ppb		99
87)	n-Decane	10.533	43	1241018	181.45	ppb	#	50
88)	1,3,5-Trimethylbenzene	10.496	105	6491946	174.34	ppb	#	67
89)	tert-Butylbenzene	10.847	119	7277788	186.89	ppb		92
90)	1,2,4-Trimethylbenzene	10.914	105	6616645	175.81	ppb		98
91)	sec-Butylbenzene	11.097	105	8531947	177.40	ppb		95
92)	1,3-Dichlorobenzene	11.228	146	3626843	176.35	ppb		97
93)	Limonene	11.234	68	1556001	174.11	ppb		94
94)	p-Isopropyltoluene	11.275	119	7599793	182.14	ppb		97
95)	1,4-Dichlorobenzene	11.348	146	3763207	182.64	ppb		97
96)	1,2,3-Trimethylbenzene	11.376	105	5474735	141.16	ppb		97
97)	p-Diethylbenzene	11.709	105	3921874	175.86	ppb	#	91
98)	1,2-Dichlorobenzene	11.746	146	2679619	157.98	ppb		100
99)	n-Butylbenzene	11.735	91	6492161	153.91	ppb	#	88
100)	trans-Decahydronaphtha...	11.762	67	1306194	166.00	ppb	#	40
101)	n-Undecane	11.885	57	1819960	239.33	ppb	#	62
102)	hexachloroethane	12.060	117	1510124	234.27	ppb	#	100
103)	cis-Decahydronaphthalene	12.397	81	1571178	190.85	ppb	#	68
104)	1,2-Dibromo-3-chloropr...	12.628	75	117429	160.05	ppb		99
105)	1,2,4,5-Tetramethylben...	12.591	119	5908942	173.65	ppb		98
106)	nitrobenzene	12.845	77	9651m	99.81	ppb		
107)	1,2,4-Trichlorobenzene	13.574	180	1336503	150.88	ppb		96
108)	Hexachloro-1,3-Butadiene	13.746	225	909849	174.46	ppb		99
109)	Naphthalene	13.863	128	1779950	122.88	ppb		99
110)	1,2,3-Trichlorobenzene	14.122	180	760132	120.94	ppb		96

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

Data Path : C:\msdchem\1\DATA\092623\
Data File : QV6251904.D
Acq On : 26 Sep 2023 8:45 pm
InstName : QV0A6
Operator : JTG
Sample : SEO-CAL9
Misc : QBQV6092623A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 27 10:34:14 2023
Quant Method : C:\msdchem\2\METHODS\V06L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Tue Sep 12 12:59:02 2023
Response via : Initial Calibration



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Calibration: SI30036

Laboratory ID: S3I2745-SCV1

Sequence: S3I2745

Standard ID: S23I036

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	10.4	3.7	30.00
1,1,1-Trichloroethane	10.0	10.1	1.2	30.00
1,1,2,2-Tetrachloroethane	10.0	10.9	8.7	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.8	7.5	30.00
1,1,2-Trichloroethane	10.0	10.4	4.1	30.00
1,1-Dichloroethane	10.0	10.3	3.4	30.00
1,1-Dichloroethylene	10.0	10.9	8.6	30.00
1,2,3-Trichlorobenzene	10.0	11.4	14.2	30.00
1,2,3-Trichloropropane	10.0	10.4	4.2	30.00
1,2,4-Trichlorobenzene	10.0	11.3	12.8	30.00
1,2,4-Trimethylbenzene	10.0	11.3	12.8	30.00
1,2-Dibromo-3-chloropropane	10.0	9.28	-7.2	30.00
1,2-Dibromoethane	10.0	10.5	5.0	30.00
1,2-Dichlorobenzene	10.0	10.9	9.4	30.00
1,2-Dichloroethane	10.0	9.94	-0.6	30.00
1,2-Dichloropropane	10.0	11.3	13.2	30.00
1,3,5-Trimethylbenzene	10.0	11.4	14.3	30.00
1,3-Dichlorobenzene	10.0	10.7	7.1	30.00
1,4-Dichlorobenzene	10.0	10.5	5.3	30.00
1,4-Dioxane	210	178	-15.4	30.00
2-Butanone	10.0	9.30	-7.0	30.00
2-Hexanone	10.0	10.1	0.8	30.00
4-Methyl-2-pentanone	10.0	10.7	7.1	30.00
Acetone	10.0	10.3	2.8	30.00
Acrolein	10.0	5.86	-41.4 *	30.00
Acrylonitrile	10.0	10.1	1.3	30.00
Benzene	10.0	11.0	10.1	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Calibration: SI30036

Laboratory ID: S3I2745-SCV1

Sequence: S3I2745

Standard ID: S23I036

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	10.0	10.4	4.4	30.00
Bromodichloromethane	10.0	9.95	-0.5	30.00
Bromoform	10.0	7.98	-20.2	30.00
Bromomethane	10.0	9.21	-7.9	30.00
Carbon disulfide	10.0	10.8	8.0	30.00
Carbon tetrachloride	10.0	10.3	2.6	30.00
Chlorobenzene	10.0	10.6	6.4	30.00
Chloroethane	10.0	11.3	12.8	30.00
Chloroform	10.0	10.2	2.1	30.00
Chloromethane	10.0	12.5	24.8	30.00
cis-1,2-Dichloroethylene	10.0	10.7	6.8	30.00
cis-1,3-Dichloropropylene	10.0	10.2	2.3	30.00
Cyclohexane	10.0	5.12	-48.8 *	30.00
Dibromochloromethane	10.0	10.0	0.0	30.00
Dibromomethane	10.0	10.1	0.8	30.00
Dichlorodifluoromethane	10.0	15.4	53.8 *	30.00
Ethyl Benzene	10.0	11.4	14.3	30.00
Hexachlorobutadiene	10.0	10.1	1.2	30.00
Isopropylbenzene	10.0	10.8	8.5	30.00
Methyl acetate	10.0	9.40	-6.0	30.00
Methyl tert-butyl ether (MTBE)	10.0	10.5	5.3	30.00
Methylcyclohexane	10.0	10.6	5.9	30.00
Methylene chloride	10.0	10.2	1.6	30.00
n-Butylbenzene	10.0	11.6	16.1	30.00
n-Propylbenzene	10.0	10.9	9.2	30.00
o-Xylene	10.0	11.1	11.2	30.00
p- & m- Xylenes	20.0	22.7	13.5	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23J1154

Client: Langan Engineering & Environmental Services (NYC)

Project: 170199901

Calibration: SI30036

Laboratory ID: S3I2745-SCV1

Sequence: S3I2745

Standard ID: S23I036

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	11.2	11.6	30.00
sec-Butylbenzene	10.0	10.8	8.5	30.00
Styrene	10.0	11.2	11.5	30.00
tert-Butyl alcohol (TBA)	50.0	41.0	-17.9	30.00
tert-Butylbenzene	10.0	9.26	-7.4	30.00
Tetrachloroethylene	10.0	10.1	0.9	30.00
Toluene	10.0	11.0	10.5	30.00
trans-1,2-Dichloroethylene	10.0	10.7	7.1	30.00
trans-1,3-Dichloropropylene	10.0	10.2	2.5	30.00
Trichloroethylene	10.0	10.4	3.9	30.00
Trichlorofluoromethane	10.0	11.3	12.9	30.00
Vinyl Chloride	10.0	12.0	19.7	30.00

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251907.D
 Acq On : 26 Sep 2023 9:58 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-SCV1
 Misc : QBQV6092623A
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 12:19:32 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	154681	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	611361	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	195126	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	145822	9.67	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	96.70%	
56) Toluene-d8 (SURR)	7.236	98	848517	9.98	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	99.80%	
79) p-Bromofluorobenzene (...)	10.021	95	277170	9.95	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	99.50%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	174548	15.38	ppb	# 1
3) Freon-22	1.529	51	159136m	13.66	ppb	
4) Chloromethane	1.682	50	135488	12.48	ppb	# 42
5) Vinyl Chloride	1.777	62	150090m	11.97	ppb	
6) Bromomethane	2.094	94	49115	9.21	ppb	65
7) Chloroethane	2.200	64	105951	11.28	ppb	90
8) Trichlorofluoromethane	2.450	101	223475	11.29	ppb	98
10) Ethyl Ether	2.723	45	464605	107.03	ppb	# 60
11) Freon-113	2.959	101	133135	10.75	ppb	99
12) 1,1-Dichloroethylene	2.948	61	195879	10.86	ppb	86
13) Acrolein	2.848	56	3736m	5.86	ppb	
14) Acetone	2.984	43	11328m	10.28	ppb	
15) Iodomethane	3.090	142	119869	8.42	ppb	98
16) Allyl Chloride	3.293	76	73889	10.53	ppb	# 100
17) Methyl Acetate	3.282	43	24671	9.40	ppb	# 96
18) Carbon disulfide	3.165	76	357464	10.80	ppb	100
19) tert-Butyl Alcohol (TBA)	3.518	59	11656m	41.04	ppb	
20) Methylene Chloride	3.418	49	145477	10.16	ppb	# 72
21) Acrylonitrile	3.624	53	13180	10.13	ppb	# 68
22) trans-1,2-Dichloroethy...	3.683	61	191655	10.71	ppb	94
23) tert-Butyl Methyl Ethe...	3.674	73	193712	10.53	ppb	# 98
24) Hexane	3.950	57	222786	11.71	ppb	# 52
25) 1,1-Dichloroethane	4.089	63	236302	10.34	ppb	99
26) Vinyl Acetate	4.086	43	68343	8.67	ppb	# 99
27) Diisopropyl ether (DIPE)	4.119	45	331624	11.22	ppb	# 95
28) Ethyl-tert-Butyl ether...	4.459	59	291149	10.75	ppb	# 96
29) cis-1,2-Dichloroethylene	4.612	61	204855	10.68	ppb	92
30) 2-Butanone	4.604	72	4949	9.30	ppb	# 95
31) 2,2-Dichloropropane	4.623	77	163801	9.52	ppb	# 65
32) Tetrahydrofuran	4.871	42	8844	9.88	ppb	# 24
33) Bromochloromethane	4.832	49	82466	10.44	ppb	# 81
34) Chloroform	4.926	83	221836	10.21	ppb	# 84
35) 1,1,1-Trichloroethane	5.090	97	209697	10.12	ppb	# 82
36) Cyclohexane	5.166	56	249168	5.12	ppb	82
37) 1,1-Dichloropropylene	5.238	75	175070	10.47	ppb	# 86
39) Carbon Tetrachloride	5.238	117	181190	10.26	ppb	99
40) tert-Amyl alcohol (TAA)	5.435	59	15054	77.64	ppb	# 63
41) 1,2-Dichloroethane	5.466	62	112787	9.94	ppb	# 87
42) Benzene	5.422	78	537198	11.01	ppb	# 85
43) tert-Amyl methyl ether...	5.544	73	206933	10.08	ppb	# 90
45) Trichloroethylene	6.045	95	145703	10.39	ppb	94
46) Methyl Cyclohexane	6.281	83	253272	10.59	ppb	86
47) Methyl Methacrylate	6.334	69	36545m	10.82	ppb	
48) Dibromomethane	6.370	93	50424	10.08	ppb	95
49) Bromodichloromethane	6.537	83	134902	9.95	ppb	# 94
50) 1,2-Dichloropropane	6.290	63	127853	11.32	ppb	# 100
51) 1,4-Dioxane	6.367	88	5883m	177.75	ppb	
52) 2-nitropropane	6.737	43	7168	6.97	ppb	# 100

Data Path : C:\msdchem\1\DATA\092623\
 Data File : QV6251907.D
 Acq On : 26 Sep 2023 9:58 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-SCV1
 Misc : QBQV6092623A
 ALS Vial : 16 Sample Multiplier: 1

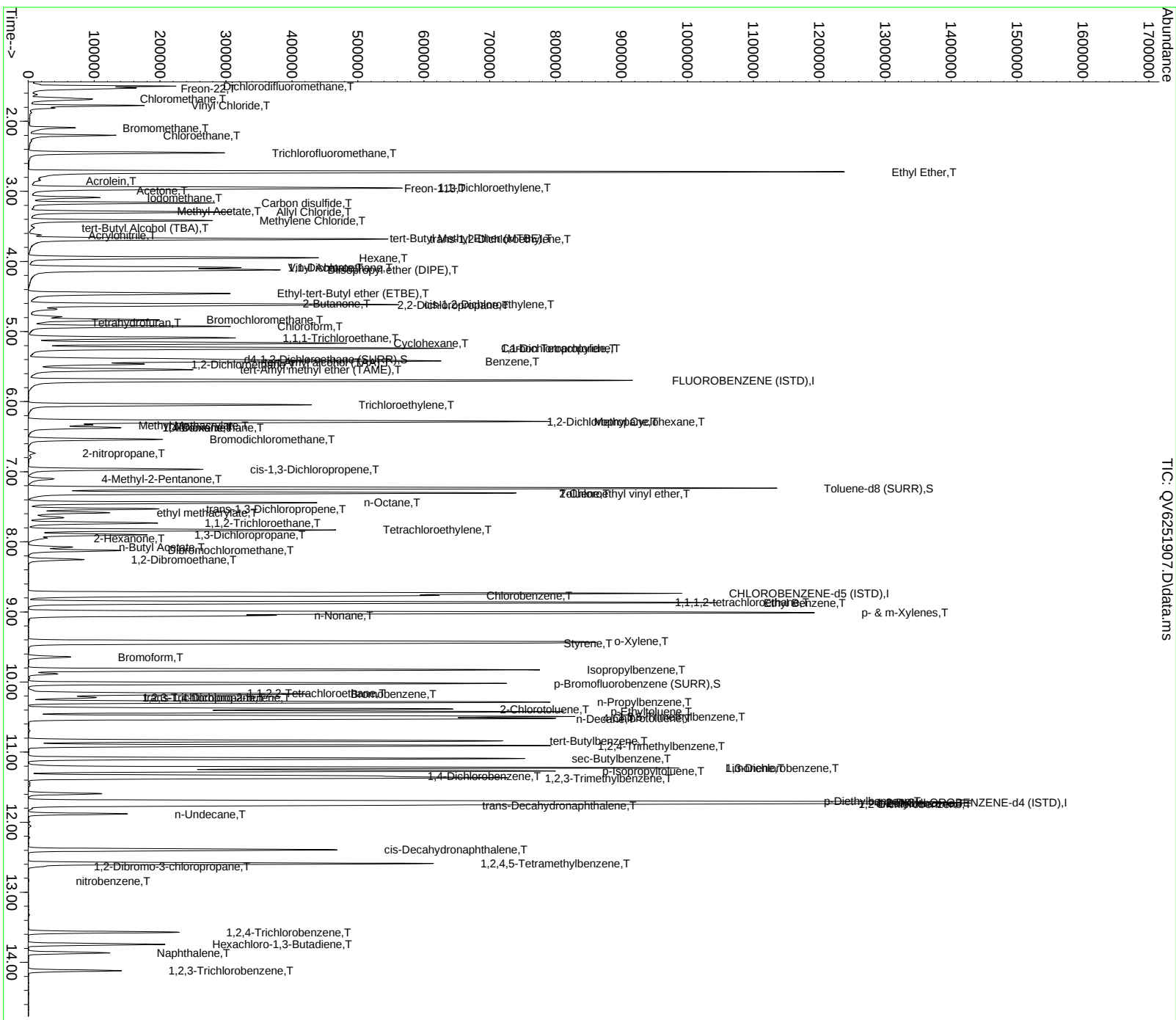
Quant Time: Sep 27 12:19:32 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	2-Chloroethyl vinyl ether	7.305	63	41984	10.61	ppb	#	93
54)	cis-1,3-Dichloropropene	6.966	75	162696	10.23	ppb	#	79
55)	4-Methyl-2-Pentanone	7.102	43	33498	10.71	ppb	#	79
57)	Toluene	7.305	91	582687	11.05	ppb		99
58)	n-Octane	7.441	43	188465	10.48	ppb		98
59)	trans-1,3-Dichloropropene	7.530	75	115124	10.25	ppb	#	92
60)	ethyl methacrylate	7.583	69	72422	10.58	ppb	#	100
61)	1,1,2-Trichloroethane	7.731	97	71254	10.41	ppb		91
62)	1,3-Dichloropropane	7.898	76	115557	10.08	ppb	#	62
63)	Tetrachloroethylene	7.831	166	146161	10.09	ppb	#	100
64)	2-Hexanone	7.948	43	20722	10.08	ppb	#	1
65)	n-Butyl Acetate	8.079	56	27888	10.56	ppb	#	34
66)	Dibromochloromethane	8.123	129	80276	10.00	ppb		97
67)	1,2-Dibromoethane	8.251	107	63215	10.50	ppb		98
68)	Chlorobenzene	8.766	112	339492	10.64	ppb		93
69)	1,1,1,2-tetrachloroethane	8.860	131	105488	10.37	ppb		99
70)	Ethyl Benzene	8.869	91	624603	11.43	ppb		97
71)	p- & m-Xylenes	9.011	91	965145	22.70	ppb		96
72)	n-Nonane	9.052	43	121826	9.99	ppb	#	62
73)	o-Xylene	9.422	91	476007	11.12	ppb		99
74)	Styrene	9.445	104	344559	11.15	ppb		96
75)	Bromoform	9.645	173	32346	7.98	ppb		99
77)	p-Ethyltoluene	10.424	105	576203m	12.13	ppb		
78)	Isopropylbenzene	9.826	105	571114	10.85	ppb		99
80)	1,1,2,2-Tetrachloroethane	10.157	83	57939	10.87	ppb	#	99
81)	Bromobenzene	10.174	77	178431	10.64	ppb		92
82)	trans-1,4-Dichloro-2-b...	10.221	75	54691m	10.42	ppb		
83)	1,2,3-Trichloropropane	10.224	110	16564	10.42	ppb	#	51
84)	n-Propylbenzene	10.288	91	688493	10.92	ppb		99
85)	2-Chlorotoluene	10.385	91	398420	10.50	ppb		99
86)	4-Chlorotoluene	10.519	91	452276	11.20	ppb		97
87)	n-Decane	10.524	43	56423	7.62	ppb		90
88)	1,3,5-Trimethylbenzene	10.491	105	478873	11.43	ppb	#	68
89)	tert-Butylbenzene	10.839	119	403212	9.26	ppb		95
90)	1,2,4-Trimethylbenzene	10.908	105	469797	11.28	ppb		98
91)	sec-Butylbenzene	11.092	105	584988	10.85	ppb		99
92)	1,3-Dichlorobenzene	11.225	146	235849	10.71	ppb		98
93)	Limonene	11.225	68	125890	11.57	ppb	#	92
94)	p-Isopropyltoluene	11.270	119	519664	11.16	ppb		98
95)	1,4-Dichlorobenzene	11.339	146	228173	10.53	ppb		98
96)	1,2,3-Trimethylbenzene	11.367	105	437914	12.59	ppb		99
97)	p-Diethylbenzene	11.701	105	275669	11.27	ppb	#	99
98)	1,2-Dichlorobenzene	11.737	146	187009	10.94	ppb	#	88
99)	n-Butylbenzene	11.729	91	544437	11.61	ppb		95
100)	trans-Decahydronaphtha...	11.757	67	93855	10.81	ppb		90
101)	n-Undecane	11.882	57	55313	4.60	ppb		95
103)	cis-Decahydronaphthalene	12.394	81	96967	10.85	ppb	#	64
104)	1,2-Dibromo-3-chloropr...	12.625	75	5942	9.28	ppb		97
105)	1,2,4,5-Tetramethylben...	12.589	119	372086	11.24	ppb		99
106)	nitrobenzene	12.839	77	283m	6.55	ppb		
107)	1,2,4-Trichlorobenzene	13.571	180	77230	11.28	ppb		97
108)	Hexachloro-1,3-Butadiene	13.743	225	45697	10.12	ppb		99
109)	Naphthalene	13.863	128	110936	10.47	ppb		98
110)	1,2,3-Trichlorobenzene	14.119	180	46049	11.42	ppb		96

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

Data Path : C:\msdchem\1\DATA\092623\
Data File : QV6251907.D
Acq On : 26 Sep 2023 9:58 pm
InstName : QV0A6
Operator : JTG
Sample : SEO-SCV1
Misc : QBQV6092623A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 12:19:32 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYCProject: 170199901Instrument ID: QVOA6Calibration: SI30036Lab File ID: QV6252576.DCalibration Date: 09/26/23 16:40Sequence: S3J2001Injection Date: 10/19/23Lab Sample ID: S3J2001-CCV1Injection Time: 10:00

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	10.3	0.1664465	0.1721153		3.4	20
1,1,1-Trichloroethane	A	10.0	9.43	1.339628	1.262858	0.1	-5.7	20
1,1,2,2-Tetrachloroethane	A	10.0	10.4	0.2732278	0.2847175	0.3 *	4.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	8.81	0.8008882	0.7052695	0.1	-11.9	20
1,1,2-Trichloroethane	A	10.0	10.0	0.1119334	0.1123349	0.1	0.4	20
1,1-Dichloroethane	A	10.0	9.77	1.47762	1.443621	0.2	-2.3	20
1,1-Dichloroethylene	A	10.0	9.21	1.16592	1.073365	0.1	-7.9	20
1,2,3-Trichlorobenzene	A	10.0	10.8	0.2067181	0.2226832		7.7	20
1,2,3-Trichloropropane	A	10.0	10.3	8.149078E-02	8.416346E-02		3.3	20
1,2,4-Trichlorobenzene	A	10.0	10.4	0.3509747	0.3655104	0.2	4.1	20
1,2,4-Trimethylbenzene	A	10.0	10.8	2.134636	2.310408		8.2	20
1,2-Dibromo-3-chloropropane	A	10.0	9.12	2.992877E-02	2.989365E-02	0.05	-8.8	20
1,2-Dibromoethane	A	10.0	9.99	9.844928E-02	9.830201E-02	0.1	-0.1	20
1,2-Dichlorobenzene	A	10.0	10.6	0.8761994	0.9287274	0.4	6.0	20
1,2-Dichloroethane	A	10.0	9.95	0.7337255	0.7297084	0.1	-0.5	20
1,2-Dichloropropane	A	10.0	10.9	0.1846883	0.2006171	0.1	8.6	20
1,3,5-Trimethylbenzene	A	10.0	10.9	2.147611	2.340943		9.0	20
1,3-Dichlorobenzene	A	10.0	10.6	1.129088	1.191429	0.6	5.5	20
1,4-Dichlorobenzene	A	10.0	10.4	1.110546	1.15303	0.5	3.8	20
1,4-Dioxane	A	200	106	3.057682E-04	2.884048E-04		-46.9	20 *
2-Butanone	A	10.0	8.24	2.957948E-02	2.837446E-02	0.1	-4.1	20
2-Hexanone	A	10.0	9.59	3.361475E-02	3.223045E-02	0.1	-4.1	20
4-Methyl-2-pentanone	A	10.0	9.51	5.114441E-02	4.864723E-02	0.1	-4.9	20
Acetone	A	10.0	35.6	7.002539E-02	0.2483467	0.1	256	20 *
Acrolein	A	2.50	8.25	3.046567E-02	0.1360635		230	20 *
Acrylonitrile	A	10.0	9.06	8.408011E-02	7.621048E-02		-9.4	20
Benzene	A	10.0	9.67	3.154449	3.049456	0.5	-3.3	20
Bromochloromethane	A	10.0	9.97	0.510855	0.5094716		-0.3	20
Bromodichloromethane	A	10.0	10.1	0.2218094	0.2248443	0.2	1.4	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Instrument ID: QVOA6 Calibration: SI30036
 Lab File ID: QV6252576.D Calibration Date: 09/26/23 16:40
 Sequence: S3J2001 Injection Date: 10/19/23
 Lab Sample ID: S3J2001-CCV1 Injection Time: 10:00

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bromoform	A	10.0	7.36	0.0558419	4.879014E-02	0.1	-26.4	20 *
Bromomethane	A	10.0	2.83	0.3079876	9.602833E-02	0.1	-71.7	20 *
Carbon disulfide	A	10.0	8.41	2.140621	1.800175	0.1	-15.9	20
Carbon tetrachloride	A	10.0	9.45	1.142136	1.07885	0.1	-5.5	20
Chlorobenzene	A	10.0	10.3	0.5217588	0.5366516	0.5	2.9	20
Chloroethane	A	10.0	8.90	0.6071291	0.5401081	0.1	-11.0	20
Chloroform	A	10.0	9.65	1.404851	1.356376	0.2	-3.5	20
Chloromethane	A	10.0	6.48	0.7015941	0.4546716	0.1	-35.2	20 *
cis-1,2-Dichloroethylene	A	10.0	10.0	1.239495	1.23958	0.1	0.007	20
cis-1,3-Dichloropropylene	A	10.0	10.3	0.260137	0.2672475	0.2	2.7	20
Cyclohexane	A	10.0	9.76	3.143971	3.068205	0.1	-2.4	20
Dibromochloromethane	A	10.0	9.72	0.1313467	0.1277242	0.1	-2.8	20
Dibromomethane	A	10.0	9.95	8.183029E-02	8.141933E-02		-0.5	20
Dichlorodifluoromethane	A	10.0	5.62	0.7337496	0.4122718	0.1	-43.8	20 *
Ethyl Benzene	A	10.0	10.9	0.8937618	0.9735162	0.1	8.9	20
Hexachlorobutadiene	A	10.0	10.0	0.2313934	0.2314757		0.04	20
Isopropylbenzene	A	10.0	10.8	2.698724	2.922446	0.1	8.3	20
Methyl acetate	A	10.0	9.50	0.1696944	0.1611665	0.1	-5.0	20
Methyl tert-butyl ether (MTBE)	A	10.0	9.62	1.189258	1.143908	0.1	-3.8	20
Methylcyclohexane	A	10.0	10.2	0.3911281	0.3973026	0.1	1.6	20
Methylene chloride	A	10.0	9.53	0.9258502	0.8818757	0.1	-4.7	20
n-Butylbenzene	A	10.0	11.5	2.402251	2.771458		15.4	20
n-Propylbenzene	A	10.0	11.1	3.231615	3.577222		10.7	20
o-Xylene	A	10.0	10.8	0.7003172	0.7559592	0.3	7.9	20
p- & m- Xylenes	A	20.0	22.0	0.6956053	0.7669616	0.1	10.3	20
p-Isopropyltoluene	A	10.0	10.8	2.387292	2.584391		8.3	20
sec-Butylbenzene	A	10.0	10.9	2.762971	3.0005		8.6	20
Styrene	A	10.0	10.8	0.5055634	0.543573	0.3	7.5	20
tert-Butyl alcohol (TBA)	A	10.0	8.47	2.450443E-02	1.485664E-02		-15.3	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC Project: 170199901
 Instrument ID: QVOA6 Calibration: SI30036
 Lab File ID: QV6252576.D Calibration Date: 09/26/23 16:40
 Sequence: S3J2001 Injection Date: 10/19/23
 Lab Sample ID: S3J2001-CCV1 Injection Time: 10:00

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butylbenzene	A	10.0	10.7	2.231819	2.396168		7.4	20
Tetrachloroethylene	A	10.0	9.77	0.2370295	0.2315556	0.2	-2.3	20
Toluene	A	10.0	10.3	0.8625733	0.8912994	0.4	3.3	20
trans-1,2-Dichloroethylene	A	10.0	9.66	1.156977	1.117827	0.1	-3.4	20
trans-1,3-Dichloropropylene	A	10.0	10.0	0.1837947	0.1842947	0.1	0.3	20
Trichloroethylene	A	10.0	9.90	0.229388	0.2271938	0.2	-1.0	20
Trichlorofluoromethane	A	10.0	8.89	1.280004	1.137607	0.1	-11.1	20
Vinyl Chloride	A	10.0	8.18	0.8105657	0.6631289	0.1	-18.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252576.D
 Acq On : 19 Oct 2023 10:00 am
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CCV1
 Misc : QBQV6101923A
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 13:25:42 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	185237	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.732	117	699711	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	219846	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	177384	9.82	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	98.20%	
56) Toluene-d8 (SURR)	7.233	98	998106	10.25	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.50%	
79) p-Bromofluorobenzene (...)	10.020	95	313489	9.98	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	99.80%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.498	85	76368	5.62	ppb	# 1
3) Freon-22	1.535	51	94889	6.78	ppb	# 98
4) Chloromethane	1.688	50	84222	6.48	ppb	# 41
5) Vinyl Chloride	1.777	62	122836	8.18	ppb	# 47
6) Bromomethane	2.094	94	17788	2.83	ppb	65
7) Chloroethane	2.200	64	100048	8.90	ppb	90
8) Trichlorofluoromethane	2.450	101	210727	8.89	ppb	97
9) Ethanol	2.617	45	8188m	291.80	ppb	
10) Ethyl Ether	2.723	45	46352	8.92	ppb	# 59
11) Freon-113	2.959	101	130642	8.81	ppb	99
12) 1,1-Dichloroethylene	2.948	61	198827	9.21	ppb	88
13) Acrolein	2.848	56	6301	8.25	ppb	# 83
14) Acetone	2.979	43	46003	35.56	ppb	# 97
15) Iodomethane	3.087	142	58192	3.41	ppb	98
16) Allyl Chloride	3.296	76	77411	9.22	ppb	# 100
17) Methyl Acetate	3.285	43	29854	9.50	ppb	# 96
18) Carbon disulfide	3.165	76	333459	8.41	ppb	100
19) tert-Butyl Alcohol (TBA)	3.524	59	2752m	8.47	ppb	
20) Methylene Chloride	3.415	49	163356	9.53	ppb	# 74
21) Acrylonitrile	3.621	53	14117	9.06	ppb	# 71
22) trans-1,2-Dichloroethy...	3.683	61	207063	9.66	ppb	# 74
23) tert-Butyl Methyl Ethe...	3.677	73	211894	9.62	ppb	# 88
24) Hexane	3.947	57	208380	9.15	ppb	# 53
25) 1,1-Dichloroethane	4.086	63	267412	9.77	ppb	99
26) Vinyl Acetate	4.080	43	92780	9.82	ppb	# 99
27) Diisopropyl ether (DIPE)	4.122	45	352509	9.96	ppb	# 94
28) Ethyl-tert-Butyl ether...	4.459	59	314273	9.69	ppb	# 97
29) cis-1,2-Dichloroethylene	4.612	61	229616	10.00	ppb	94
30) 2-Butanone	4.601	72	5256	8.24	ppb	# 95
31) 2,2-Dichloropropane	4.623	77	199691	9.69	ppb	# 80
32) Tetrahydrofuran	4.865	42	10047	9.37	ppb	# 29
33) Bromochloromethane	4.832	49	94373	9.97	ppb	# 65
34) Chloroform	4.923	83	251251	9.65	ppb	# 94
35) 1,1,1-Trichloroethane	5.090	97	233928	9.43	ppb	# 72
36) Cyclohexane	5.199	56	568345m	9.76	ppb	
37) 1,1-Dichloropropylene	5.238	75	197613	9.87	ppb	# 87
39) Carbon Tetrachloride	5.241	117	199843	9.45	ppb	99
40) tert-Amyl alcohol (TAA)	5.444	59	13915m	59.92	ppb	
41) 1,2-Dichloroethane	5.463	62	135169	9.95	ppb	99
42) Benzene	5.421	78	564872	9.67	ppb	# 86
43) tert-Amyl methyl ether...	5.547	73	230020	9.36	ppb	# 90
45) Trichloroethylene	6.045	95	158970	9.90	ppb	93
46) Methyl Cyclohexane	6.278	83	277997	10.16	ppb	88
47) Methyl Methacrylate	6.334	69	36368	9.41	ppb	75
48) Dibromomethane	6.373	93	56970	9.95	ppb	# 69
49) Bromodichloromethane	6.537	83	157326	10.14	ppb	# 94
50) 1,2-Dichloropropane	6.287	63	140374	10.86	ppb	# 83
51) 1,4-Dioxane	6.373	88	4036m	106.16	ppb	

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252576.D
 Acq On : 19 Oct 2023 10:00 am
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CCV1
 Misc : QBQV6101923A
 ALS Vial : 3 Sample Multiplier: 1

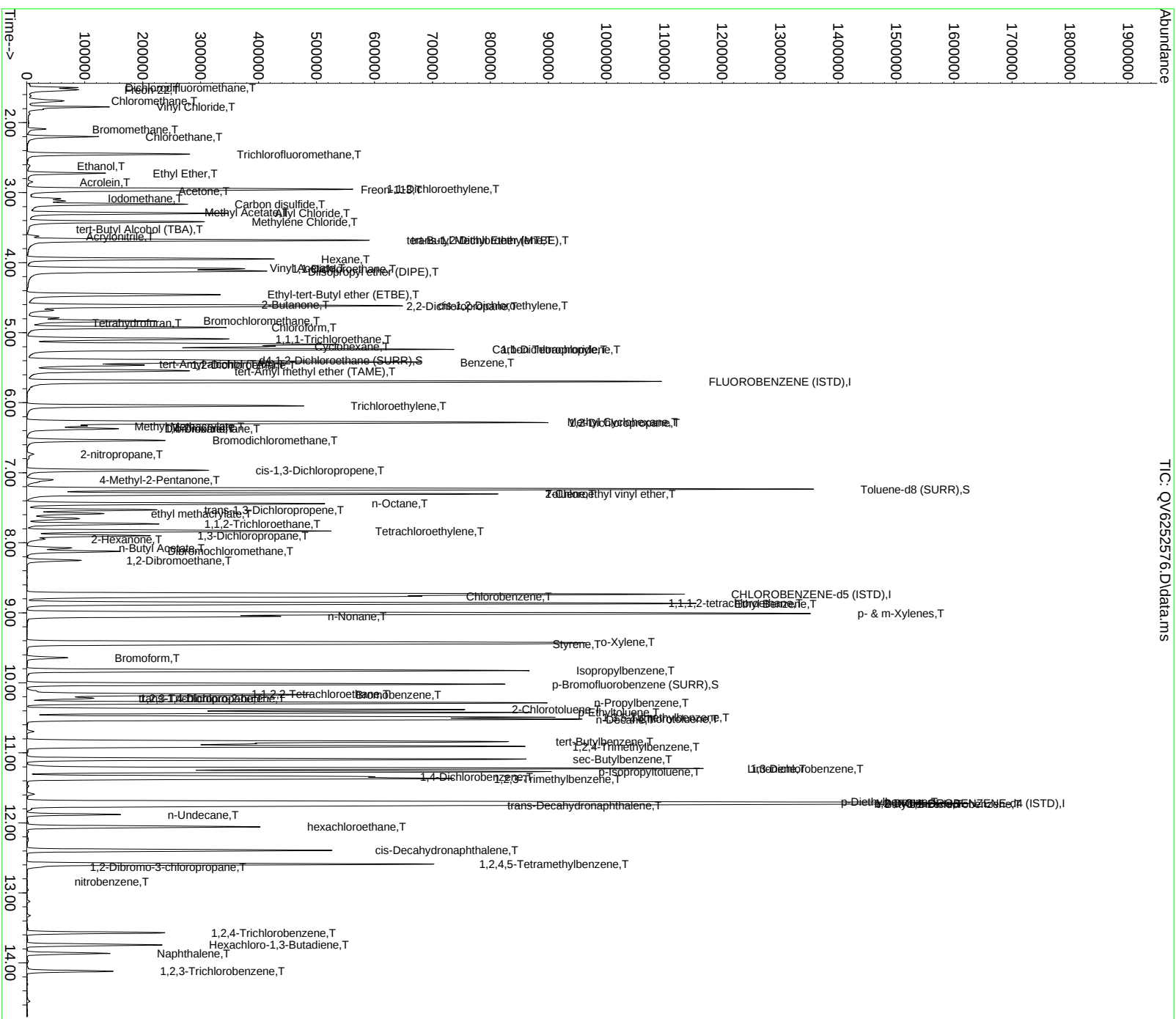
Quant Time: Oct 19 13:25:42 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
52)	2-nitropropane	6.737	43	8216	6.98	ppb	#	100
53)	2-Chloroethyl vinyl ether	7.302	63	46766	10.33	ppb	#	93
54)	cis-1,3-Dichloropropene	6.966	75	186996	10.27	ppb	#	79
55)	4-Methyl-2-Pentanone	7.105	43	34039	9.51	ppb	#	74
57)	Toluene	7.302	91	623652	10.33	ppb		99
58)	n-Octane	7.441	43	217759	10.58	ppb		97
59)	trans-1,3-Dichloropropene	7.530	75	128953	10.03	ppb		99
60)	ethyl methacrylate	7.583	69	76564	9.78	ppb	#	100
61)	1,1,2-Trichloroethane	7.733	97	78602	10.04	ppb		92
62)	1,3-Dichloropropene	7.898	76	133577	10.18	ppb	#	62
63)	Tetrachloroethylene	7.834	166	162022	9.77	ppb	#	100
64)	2-Hexanone	7.948	43	22552	9.59	ppb	#	1
65)	n-Butyl Acetate	8.073	56	31302	10.36	ppb	#	35
66)	Dibromochloromethane	8.123	129	89370	9.72	ppb		98
67)	1,2-Dibromoethane	8.248	107	68783	9.99	ppb		97
68)	Chlorobenzene	8.766	112	375501	10.29	ppb		93
69)	1,1,1,2-tetrachloroethane	8.860	131	120431	10.34	ppb		98
70)	Ethyl Benzene	8.869	91	681180	10.89	ppb		97
71)	p- & m-Xylenes	9.011	91	1073303	22.05	ppb		95
72)	n-Nonane	9.052	43	144104	10.33	ppb		96
73)	o-Xylene	9.422	91	528953	10.79	ppb		99
74)	Styrene	9.445	104	380344	10.75	ppb		96
75)	Bromoform	9.642	173	34139	7.36	ppb		99
77)	p-Ethyltoluene	10.424	105	581289m	10.86	ppb		
78)	Isopropylbenzene	9.826	105	642488	10.83	ppb		99
80)	1,1,2,2-Tetrachloroethane	10.157	83	62594	10.42	ppb	#	99
81)	Bromobenzene	10.171	77	201294	10.65	ppb		92
82)	trans-1,4-Dichloro-2-b...	10.224	75	57200	9.67	ppb	#	49
83)	1,2,3-Trichloropropane	10.218	110	18503	10.33	ppb		88
84)	n-Propylbenzene	10.288	91	786438	11.07	ppb		99
85)	2-Chlorotoluene	10.382	91	457012	10.69	ppb		99
86)	4-Chlorotoluene	10.519	91	506692	11.14	ppb		97
87)	n-Decane	10.524	43	80530	9.65	ppb		90
88)	1,3,5-Trimethylbenzene	10.491	105	514647	10.90	ppb	#	67
89)	tert-Butylbenzene	10.838	119	526788	10.74	ppb		96
90)	1,2,4-Trimethylbenzene	10.908	105	507934	10.82	ppb		99
91)	sec-Butylbenzene	11.089	105	659648	10.86	ppb		98
92)	1,3-Dichlorobenzene	11.222	146	261931	10.55	ppb		98
93)	Limonene	11.225	68	155612	12.69	ppb	#	66
94)	p-Isopropyltoluene	11.267	119	568168	10.83	ppb		98
95)	1,4-Dichlorobenzene	11.339	146	253489	10.38	ppb		98
96)	1,2,3-Trimethylbenzene	11.367	105	437062	11.15	ppb		99
97)	p-Diethylbenzene	11.701	105	308116	11.18	ppb	#	98
98)	1,2-Dichlorobenzene	11.734	146	204177	10.60	ppb	#	88
99)	n-Butylbenzene	11.729	91	609294	11.54	ppb		95
100)	trans-Decahydronaphtha...	11.754	67	108249	11.06	ppb		92
101)	n-Undecane	11.882	57	55533	4.10	ppb	#	63
102)	hexachloroethane	12.057	117	81488	9.04	ppb	#	100
103)	cis-Decahydronaphthalene	12.394	81	107602	10.69	ppb	#	64
104)	1,2-Dibromo-3-chloropr...	12.630	75	6572	9.12	ppb		96
105)	1,2,4,5-Tetramethylben...	12.591	119	417391	11.19	ppb		99
106)	nitrobenzene	12.844	77	547m	11.10	ppb		
107)	1,2,4-Trichlorobenzene	13.571	180	80356	10.41	ppb		97
108)	Hexachloro-1,3-Butadiene	13.743	225	50889	10.00	ppb		98
109)	Naphthalene	13.863	128	119994	10.06	ppb		99
110)	1,2,3-Trichlorobenzene	14.119	180	48956	10.77	ppb		96

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252576.D
Acq On : 19 Oct 2023 10:00 am
InstName : QV0A6
Operator : JTG
Sample : SEO-CCV1
Misc : QB0V6101923A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 13:25:42 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Last Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - StratfordSDG: 23J1154Client: Langan Engineering & Environmental Services (NYCProject: 170199901Instrument ID: QVOA6Calibration: SI30036Lab File ID: QV6252603.DCalibration Date: 09/26/23 16:40Sequence: S3J2002Injection Date: 10/19/23Lab Sample ID: S3J2002-CCV1Injection Time: 21:32

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	10.5	0.1664465	0.1745023		4.8	20
1,1,1-Trichloroethane	A	10.0	9.68	1.339628	1.297137	0.1	-3.2	20
1,1,2,2-Tetrachloroethane	A	10.0	10.4	0.2732278	0.2840158	0.3 *	3.9	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.00	0.8008882	0.720547	0.1	-10.0	20
1,1,2-Trichloroethane	A	10.0	10.3	0.1119334	0.1154335	0.1	3.1	20
1,1-Dichloroethane	A	10.0	9.93	1.47762	1.467385	0.2	-0.7	20
1,1-Dichloroethylene	A	10.0	9.57	1.16592	1.115878	0.1	-4.3	20
1,2,3-Trichlorobenzene	A	10.0	11.0	0.2067181	0.2271682		9.9	20
1,2,3-Trichloropropane	A	10.0	10.0	8.149078E-02	0.0817822		0.4	20
1,2,4-Trichlorobenzene	A	10.0	10.4	0.3509747	0.3654761	0.2	4.1	20
1,2,4-Trimethylbenzene	A	10.0	10.7	2.134636	2.280715		6.8	20
1,2-Dibromo-3-chloropropane	A	10.0	8.86	2.992877E-02	2.904275E-02	0.05	-11.4	20
1,2-Dibromoethane	A	10.0	10.2	9.844928E-02	0.1005336	0.1	2.1	20
1,2-Dichlorobenzene	A	10.0	10.6	0.8761994	0.9243075	0.4	5.5	20
1,2-Dichloroethane	A	10.0	9.74	0.7337255	0.7148728	0.1	-2.6	20
1,2-Dichloropropane	A	10.0	11.0	0.1846883	0.2030004	0.1	9.9	20
1,3,5-Trimethylbenzene	A	10.0	10.8	2.147611	2.31602		7.8	20
1,3-Dichlorobenzene	A	10.0	10.3	1.129088	1.158767	0.6	2.6	20
1,4-Dichlorobenzene	A	10.0	10.2	1.110546	1.136122	0.5	2.3	20
1,4-Dioxane	A	200	111	3.057682E-04	3.02001E-04		-44.4	20 *
2-Butanone	A	10.0	8.19	2.957948E-02	2.821387E-02	0.1	-4.6	20
2-Hexanone	A	10.0	9.38	3.361475E-02	0.0315196	0.1 *	-6.2	20
4-Methyl-2-pentanone	A	10.0	8.46	5.114441E-02	4.328681E-02	0.1	-15.4	20
Acetone	A	10.0	7.45	7.002539E-02	5.320938E-02	0.1	-25.5	20 *
Acrolein	A	2.50	8.37	3.046567E-02	0.1380416		235	20 *
Acrylonitrile	A	10.0	9.45	8.408011E-02	7.948327E-02		-5.5	20
Benzene	A	10.0	9.75	3.154449	3.075687	0.5	-2.5	20
Bromochloromethane	A	10.0	9.91	0.510855	0.5063919		-0.9	20
Bromodichloromethane	A	10.0	10.3	0.2218094	0.2276335	0.2	2.6	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC Project: 170199901
 Instrument ID: QVOA6 Calibration: SI30036
 Lab File ID: QV6252603.D Calibration Date: 09/26/23 16:40
 Sequence: S3J2002 Injection Date: 10/19/23
 Lab Sample ID: S3J2002-CCV1 Injection Time: 21:32

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bromoform	A	10.0	7.43	0.0558419	4.925715E-02	0.1	-25.7	20 *
Bromomethane	A	10.0	3.81	0.3079876	0.129435	0.1	-61.9	20 *
Carbon disulfide	A	10.0	8.34	2.140621	1.78478	0.1	-16.6	20
Carbon tetrachloride	A	10.0	9.78	1.142136	1.116758	0.1	-2.2	20
Chlorobenzene	A	10.0	10.4	0.5217588	0.5419799	0.5	3.9	20
Chloroethane	A	10.0	9.11	0.6071291	0.5530356	0.1	-8.9	20
Chloroform	A	10.0	9.84	1.404851	1.382519	0.2	-1.6	20
Chloromethane	A	10.0	6.45	0.7015941	0.4525209	0.1	-35.5	20 *
cis-1,2-Dichloroethylene	A	10.0	10.2	1.239495	1.261965	0.1	1.8	20
cis-1,3-Dichloropropylene	A	10.0	10.2	0.260137	0.2644933	0.2	1.7	20
Cyclohexane	A	10.0	10.1	3.143971	3.163542	0.1	0.6	20
Dibromochloromethane	A	10.0	9.89	0.1313467	0.1298856	0.1	-1.1	20
Dibromomethane	A	10.0	10.1	8.183029E-02	8.295911E-02		1.4	20
Dichlorodifluoromethane	A	10.0	5.51	0.7337496	0.4044081	0.1	-44.9	20 *
Ethyl Benzene	A	10.0	11.1	0.8937618	0.9914129	0.1	10.9	20
Hexachlorobutadiene	A	10.0	10.1	0.2313934	0.2329178		0.7	20
Isopropylbenzene	A	10.0	10.6	2.698724	2.856632	0.1	5.9	20
Methyl acetate	A	10.0	9.37	0.1696944	0.1590562	0.1	-6.3	20
Methyl tert-butyl ether (MTBE)	A	10.0	9.80	1.189258	1.164915	0.1	-2.0	20
Methylcyclohexane	A	10.0	10.3	0.3911281	0.4023582	0.1	2.9	20
Methylene chloride	A	10.0	9.63	0.9258502	0.8917534	0.1	-3.7	20
n-Butylbenzene	A	10.0	11.4	2.402251	2.738398		14.0	20
n-Propylbenzene	A	10.0	10.9	3.231615	3.510354		8.6	20
o-Xylene	A	10.0	11.0	0.7003172	0.7708158	0.3	10.1	20
p- & m- Xylenes	A	20.0	22.4	0.6956053	0.7788239	0.1	12.0	20
p-Isopropyltoluene	A	10.0	10.7	2.387292	2.551091		6.9	20
sec-Butylbenzene	A	10.0	10.7	2.762971	2.954683		6.9	20
Styrene	A	10.0	10.9	0.5055634	0.5530815	0.3	9.4	20
tert-Butyl alcohol (TBA)	A	10.0	8.49	2.450443E-02	0.0148919		-15.1	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC Project: 170199901
 Instrument ID: QVOA6 Calibration: SI30036
 Lab File ID: QV6252603.D Calibration Date: 09/26/23 16:40
 Sequence: S3J2002 Injection Date: 10/19/23
 Lab Sample ID: S3J2002-CCV1 Injection Time: 21:32

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butylbenzene	A	10.0	10.6	2.231819	2.354507		5.5	20
Tetrachloroethylene	A	10.0	9.92	0.2370295	0.235033	0.2	-0.8	20
Toluene	A	10.0	10.4	0.8625733	0.90078	0.4	4.4	20
trans-1,2-Dichloroethylene	A	10.0	9.74	1.156977	1.126906	0.1	-2.6	20
trans-1,3-Dichloropropylene	A	10.0	10.1	0.1837947	0.185211	0.1	0.8	20
Trichloroethylene	A	10.0	10.1	0.229388	0.2313533	0.2	0.9	20
Trichlorofluoromethane	A	10.0	9.29	1.280004	1.188728	0.1	-7.1	20
Vinyl Chloride	A	10.0	8.26	0.8105657	0.669928	0.1	-17.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252603.D
 Acq On : 19 Oct 2023 9:32 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CCV1
 Misc : QBQV6101923B
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 20 00:33:54 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	178352	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	674501	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	220537	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	178834	10.28	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	102.80%	
56) Toluene-d8 (SURR)	7.236	98	958043	10.21	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.10%	
79) p-Bromofluorobenzene (...)	10.021	95	306056	9.72	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	97.20%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	72127	5.51	ppb	# 1
3) Freon-22	1.538	51	100268m	7.44	ppb	
4) Chloromethane	1.696	50	80708	6.45	ppb	# 45
5) Vinyl Chloride	1.777	62	119483	8.26	ppb	# 47
6) Bromomethane	2.091	94	23085m	3.81	ppb	
7) Chloroethane	2.200	64	98635	9.11	ppb	90
8) Trichlorofluoromethane	2.450	101	212012	9.29	ppb	98
9) Ethanol	2.614	45	8202m	303.59	ppb	
10) Ethyl Ether	2.723	45	45669	9.12	ppb	# 27
11) Freon-113	2.959	101	128511	9.00	ppb	98
12) 1,1-Dichloroethylene	2.948	61	199019	9.57	ppb	90
13) Acrolein	2.854	56	6155	8.37	ppb	# 73
14) Acetone	2.982	43	9490	7.45	ppb	# 97
15) Iodomethane	3.087	142	88344	5.38	ppb	98
16) Allyl Chloride	3.299	76	73528	9.09	ppb	# 100
17) Methyl Acetate	3.285	43	28368	9.37	ppb	# 96
18) Carbon disulfide	3.165	76	318319	8.34	ppb	100
19) tert-Butyl Alcohol (TBA)	3.516	59	2656m	8.49	ppb	
20) Methylene Chloride	3.418	49	159046	9.63	ppb	# 74
21) Acrylonitrile	3.621	53	14176	9.45	ppb	# 70
22) trans-1,2-Dichloroethy...	3.683	61	200986	9.74	ppb	95
23) tert-Butyl Methyl Ethe...	3.677	73	207765	9.80	ppb	# 88
24) Hexane	3.950	57	198154	9.04	ppb	# 19
25) 1,1-Dichloroethane	4.089	63	261711	9.93	ppb	99
26) Vinyl Acetate	4.083	43	88940	9.78	ppb	# 99
27) Diisopropyl ether (DIPE)	4.122	45	347608	10.20	ppb	# 96
28) Ethyl-tert-Butyl ether...	4.459	59	301876	9.67	ppb	# 96
29) cis-1,2-Dichloroethylene	4.617	61	225074	10.18	ppb	93
30) 2-Butanone	4.606	72	5032	8.19	ppb	# 95
31) 2,2-Dichloropropane	4.626	77	175262	8.83	ppb	# 81
32) Tetrahydrofuran	4.871	42	9812	9.51	ppb	# 25
33) Bromochloromethane	4.835	49	90316	9.91	ppb	# 65
34) Chloroform	4.926	83	246575	9.84	ppb	# 84
35) 1,1,1-Trichloroethane	5.090	97	231347	9.68	ppb	# 82
36) Cyclohexane	5.199	56	564224m	10.06	ppb	
37) 1,1-Dichloropropylene	5.241	75	195027	10.12	ppb	# 87
39) Carbon Tetrachloride	5.241	117	199176	9.78	ppb	# 92
40) tert-Amyl alcohol (TAA)	5.435	59	13870m	62.03	ppb	
41) 1,2-Dichloroethane	5.466	62	127499	9.74	ppb	100
42) Benzene	5.422	78	548555	9.75	ppb	# 86
43) tert-Amyl methyl ether...	5.544	73	225304	9.52	ppb	# 99
45) Trichloroethylene	6.048	95	156048	10.09	ppb	92
46) Methyl Cyclohexane	6.281	83	271391	10.29	ppb	88
47) Methyl Methacrylate	6.337	69	35374	9.49	ppb	77
48) Dibromomethane	6.373	93	55956	10.14	ppb	94
49) Bromodichloromethane	6.540	83	153539	10.26	ppb	# 94
50) 1,2-Dichloropropane	6.290	63	136924	10.99	ppb	# 99
51) 1,4-Dioxane	6.368	88	4074m	111.19	ppb	

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252603.D
 Acq On : 19 Oct 2023 9:32 pm
 InstName : QVOA6
 Operator : JTG
 Sample : SEQ-CCV1
 Misc : QBQV6101923B
 ALS Vial : 30 Sample Multiplier: 1

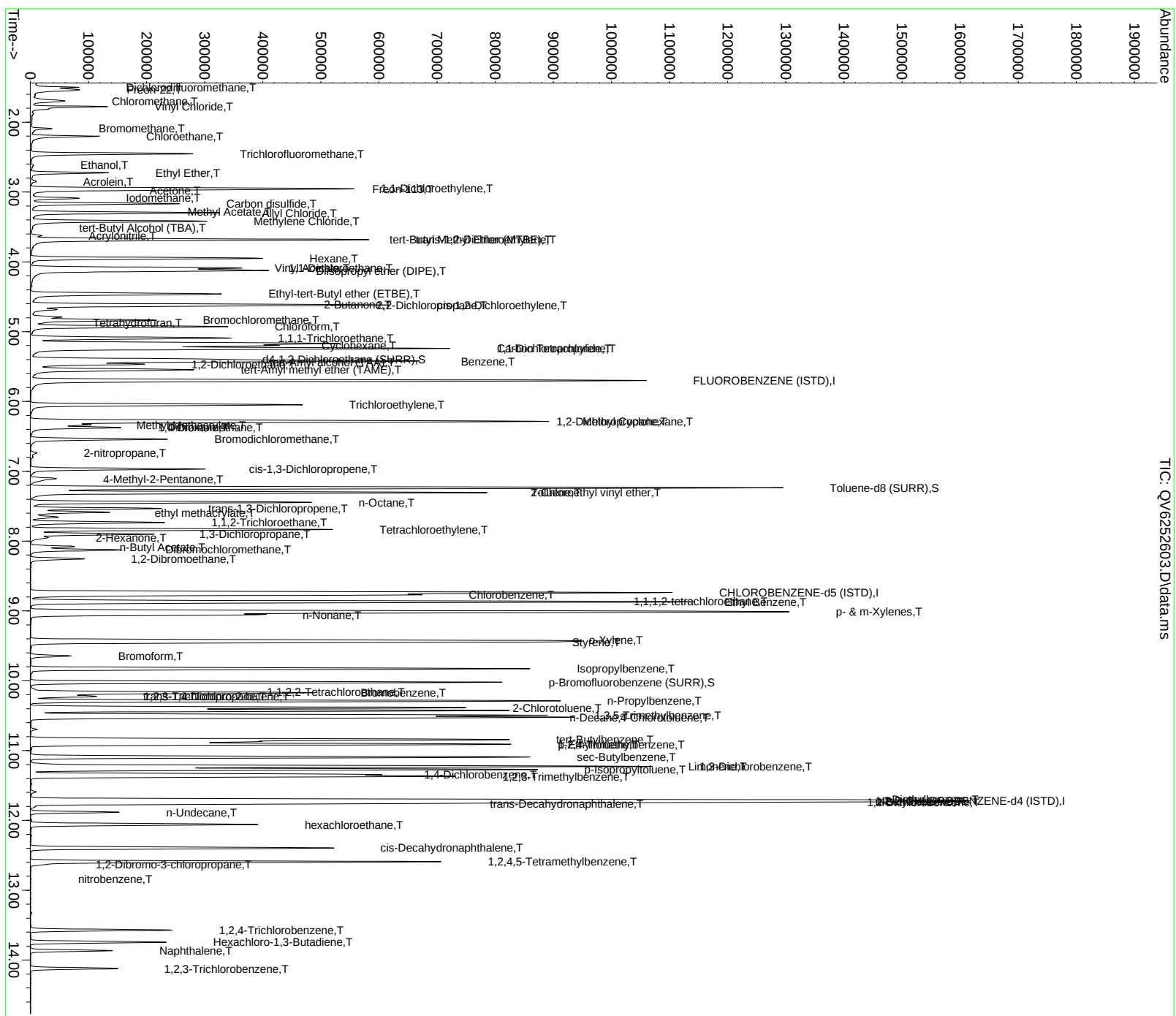
Quant Time: Oct 20 00:33:54 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
52)	2-nitropropane	6.735	43	7917	6.98	ppb	#	100
53)	2-Chloroethyl vinyl ether	7.302	63	45918	10.52	ppb	#	93
54)	cis-1,3-Dichloropropene	6.968	75	178401	10.17	ppb	#	78
55)	4-Methyl-2-Pentanone	7.108	43	29197m	8.46	ppb		
57)	Toluene	7.302	91	607577	10.44	ppb		99
58)	n-Octane	7.444	43	205551	10.36	ppb		97
59)	trans-1,3-Dichloropropene	7.533	75	124925	10.08	ppb	#	92
60)	ethyl methacrylate	7.589	69	77694	10.29	ppb	#	100
61)	1,1,2-Trichloroethane	7.734	97	77860	10.31	ppb		92
62)	1,3-Dichloropropane	7.901	76	132728	10.50	ppb	#	86
63)	Tetrachloroethylene	7.834	166	158530	9.92	ppb	#	100
64)	2-Hexanone	7.951	43	21260	9.38	ppb	#	1
65)	n-Butyl Acetate	8.081	56	30290	10.40	ppb	#	30
66)	Dibromochloromethane	8.123	129	87608	9.89	ppb		97
67)	1,2-Dibromoethane	8.254	107	67810	10.21	ppb		98
68)	Chlorobenzene	8.769	112	365566	10.39	ppb		93
69)	1,1,1,2-tetrachloroethane	8.860	131	117702	10.48	ppb		98
70)	Ethyl Benzene	8.872	91	668709	11.09	ppb		97
71)	p- & m-Xylenes	9.011	91	1050635	22.39	ppb		95
72)	n-Nonane	9.055	43	135947	10.11	ppb	#	85
73)	o-Xylene	9.422	91	519916	11.01	ppb		99
74)	Styrene	9.445	104	373054	10.94	ppb		96
75)	Bromoform	9.645	173	33224	7.43	ppb		99
77)	p-Ethyltoluene	10.908	105	397259	7.40	ppb		88
78)	Isopropylbenzene	9.826	105	629993	10.59	ppb		99
80)	1,1,2,2-Tetrachloroethane	10.160	83	62636	10.39	ppb	#	99
81)	Bromobenzene	10.171	77	197944	10.44	ppb		91
82)	trans-1,4-Dichloro-2-b...	10.224	75	55381	9.33	ppb	#	50
83)	1,2,3-Trichloropropane	10.221	110	18036	10.04	ppb		89
84)	n-Propylbenzene	10.288	91	774163	10.86	ppb		99
85)	2-Chlorotoluene	10.385	91	452230	10.54	ppb		99
86)	4-Chlorotoluene	10.521	91	495386	10.86	ppb		97
87)	n-Decane	10.527	43	74922	8.95	ppb		90
88)	1,3,5-Trimethylbenzene	10.494	105	510768	10.78	ppb	#	67
89)	tert-Butylbenzene	10.841	119	519256	10.55	ppb		96
90)	1,2,4-Trimethylbenzene	10.908	105	502982	10.68	ppb		98
91)	sec-Butylbenzene	11.092	105	651617	10.69	ppb		99
92)	1,3-Dichlorobenzene	11.225	146	255551	10.26	ppb		98
93)	Limonene	11.228	68	136001	11.06	ppb		98
94)	p-Isopropyltoluene	11.270	119	562610	10.69	ppb		98
95)	1,4-Dichlorobenzene	11.342	146	250557	10.23	ppb		98
96)	1,2,3-Trimethylbenzene	11.367	105	434699	11.06	ppb		99
97)	p-Diethylbenzene	11.704	105	304558	11.01	ppb	#	99
98)	1,2-Dichlorobenzene	11.737	146	203844	10.55	ppb	#	88
99)	n-Butylbenzene	11.729	91	603918	11.40	ppb		97
100)	trans-Decahydronaphtha...	11.757	67	105726	10.77	ppb		93
101)	n-Undecane	11.882	57	54350	4.00	ppb		96
102)	hexachloroethane	12.060	117	78895	8.73	ppb	#	100
103)	cis-Decahydronaphthalene	12.394	81	104435	10.34	ppb		94
104)	1,2-Dibromo-3-chloropr...	12.625	75	6405	8.86	ppb		95
105)	1,2,4,5-Tetramethylben...	12.591	119	412894	11.04	ppb		99
106)	nitrobenzene	12.839	77	376m	7.68	ppb		
107)	1,2,4-Trichlorobenzene	13.571	180	80601	10.41	ppb		97
108)	Hexachloro-1,3-Butadiene	13.743	225	51367	10.07	ppb		98
109)	Naphthalene	13.866	128	117850	9.85	ppb		99
110)	1,2,3-Trichlorobenzene	14.122	180	50099	10.99	ppb		95

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252603.D
Acq On : 19 Oct 2023 9:32 pm
InstName : QV0A6
Operator : JTG
Sample : SEO-CCV1
Misc : QV6101923B
ALS Vial : 30 Sample Multiplier: 1

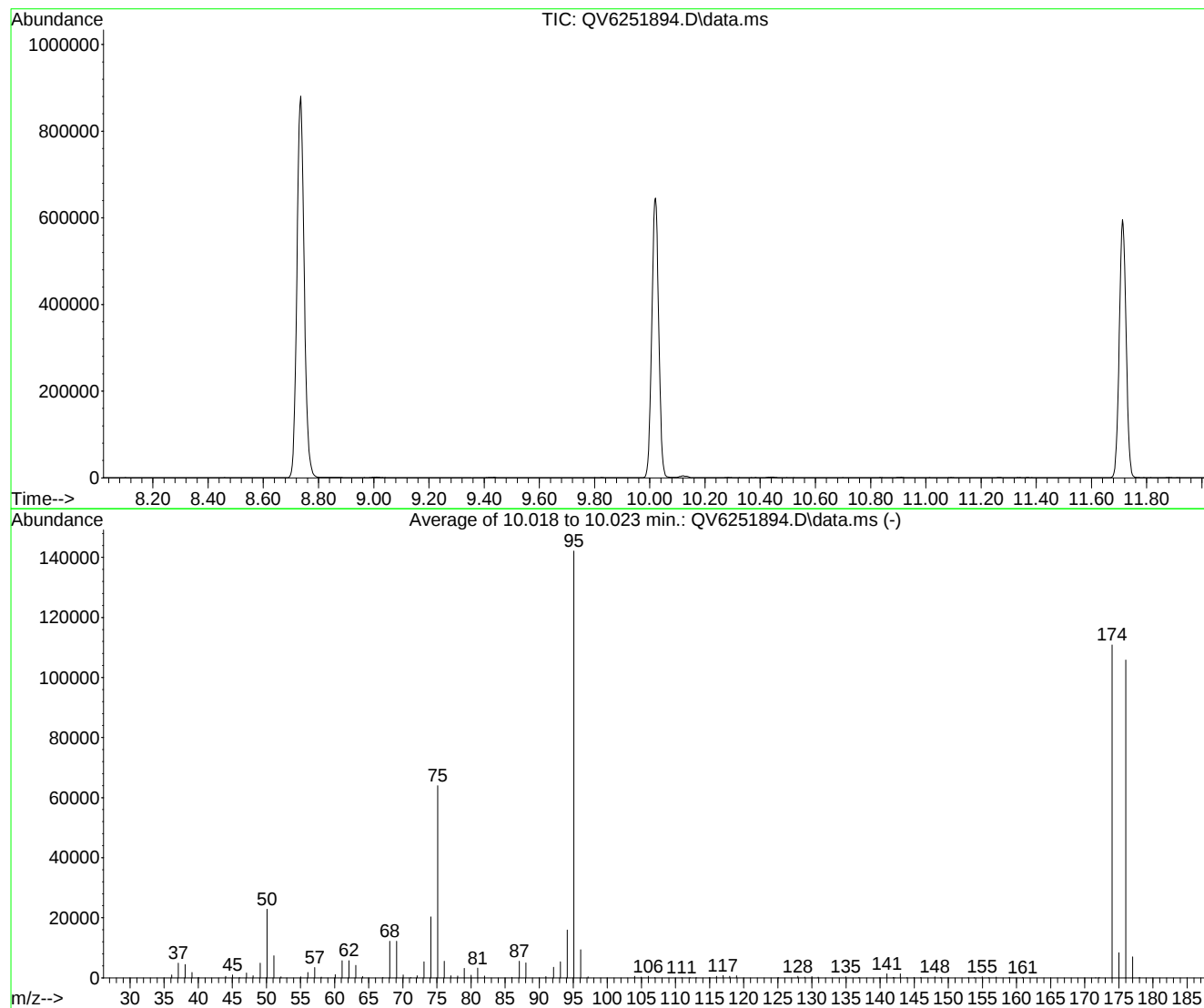
Quant Time: Oct 20 00:33:54 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\092623\
Data File : QV6251894.D
Acq On : 26 Sep 2023 4:40 pm
Operator : JTG
InstName : QV0A6
Sample : SEQ-TUN1
Misc : QBQV6092623A
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6L0099_SCADD.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Tue Sep 12 12:59:02 2023



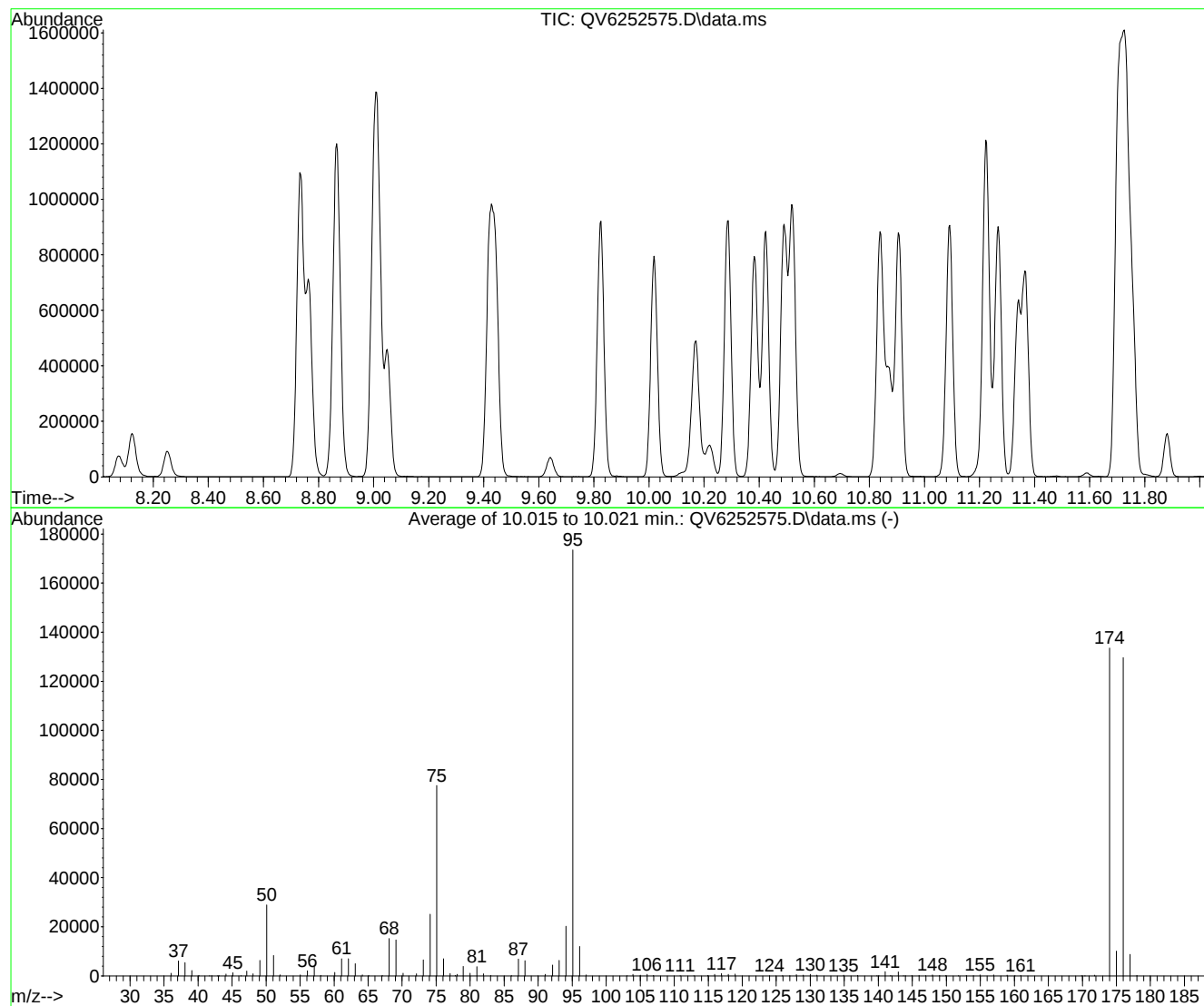
Spectrum Information: Average of 10.018 to 10.023 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	22880	PASS
75	95	30	60	45.0	63995	PASS
95	95	100	100	100.0	142101	PASS
96	95	5	9	6.6	9329	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.0	110875	PASS
175	174	5	9	7.5	8322	PASS
176	174	95	101	95.5	105875	PASS
177	176	5	9	6.6	6936	PASS

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252575.D
Acq On : 19 Oct 2023 9:35 am
Operator : JTG
InstName : QV0A6
Sample : SEQ-TUN1
Misc : QBQV6101923A
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Wed Sep 27 11:23:26 2023



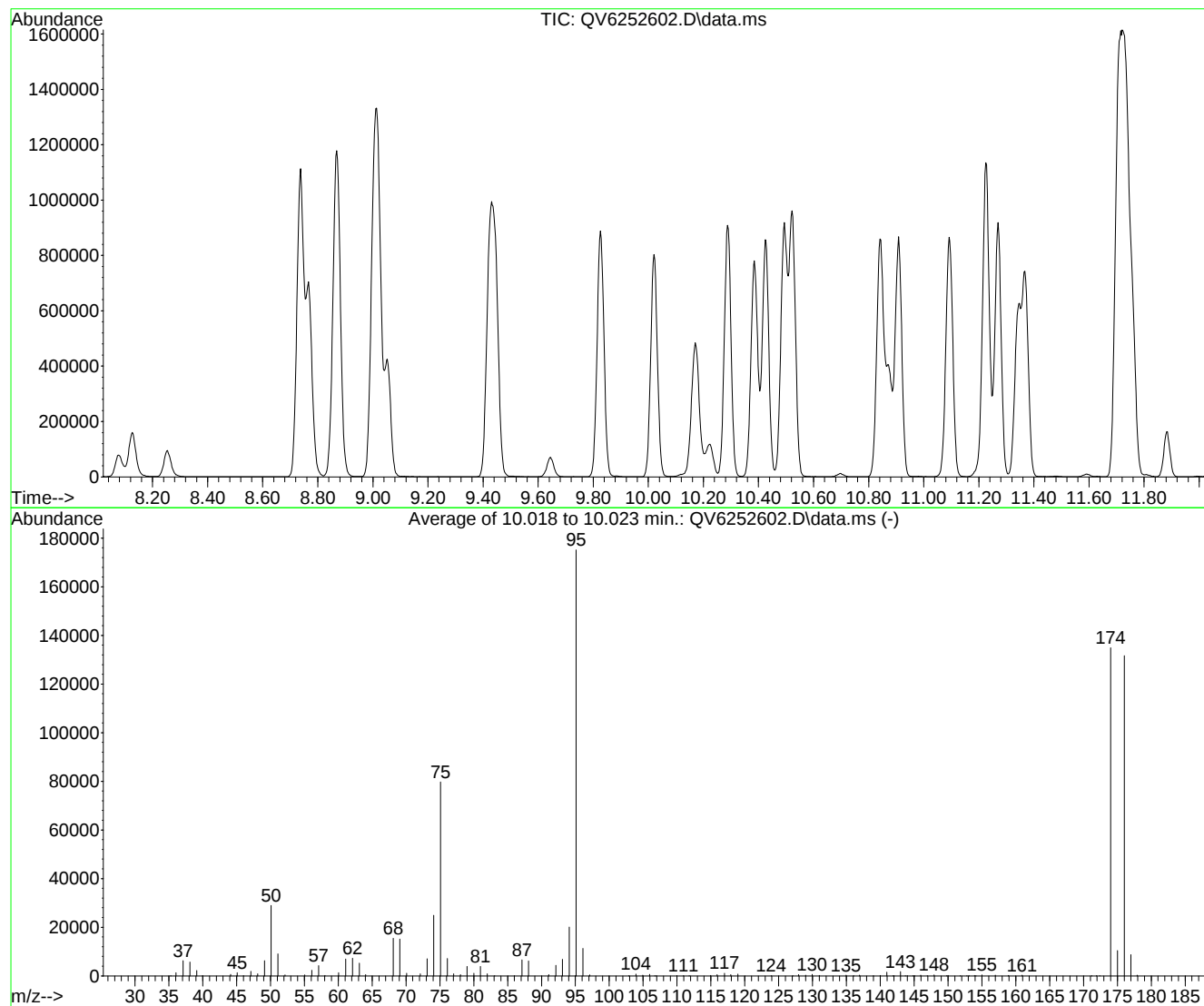
Spectrum Information: Average of 10.015 to 10.021 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	28853	PASS
75	95	30	60	44.7	77491	PASS
95	95	100	100	100.0	173461	PASS
96	95	5	9	6.9	11938	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.0	133552	PASS
175	174	5	9	7.5	10083	PASS
176	174	95	101	97.1	129627	PASS
177	176	5	9	6.8	8766	PASS

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252602.D
Acq On : 19 Oct 2023 9:08 pm
Operator : JTG
InstName : QV0A6
Sample : SEQ-TUN1
Misc : QBQV6101923B
ALS Vial : 29 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Wed Sep 27 11:23:26 2023



Spectrum Information: Average of 10.018 to 10.023 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5	28965	PASS
75	95	30	60	45.5	79731	PASS
95	95	100	100	100.0	175104	PASS
96	95	5	9	6.5	11330	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.1	134933	PASS
175	174	5	9	7.7	10345	PASS
176	174	95	101	97.6	131643	PASS
177	176	5	9	6.6	8747	PASS

METHOD BLANK RAW DATA

SDG: 23J1154
CLASS: VOA
METHOD: EPA 8260C

FORM I**METHOD BLANK DATA SHEET
EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water Laboratory ID: BJ31344-BLK1 File ID: QV6252581.D
Prepared: 10/19/23 06:15 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Analyzed: 10/19/23 12:19 Instrument: QVOA6
Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.500	U
71-55-6	1,1,1-Trichloroethane	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.500	U
79-00-5	1,1,2-Trichloroethane	0.500	U
75-34-3	1,1-Dichloroethane	0.500	U
75-35-4	1,1-Dichloroethylene	0.500	U
87-61-6	1,2,3-Trichlorobenzene	0.500	U
96-18-4	1,2,3-Trichloropropane	0.500	U
120-82-1	1,2,4-Trichlorobenzene	0.500	U
95-63-6	1,2,4-Trimethylbenzene	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	0.500	U
106-93-4	1,2-Dibromoethane	0.500	U
95-50-1	1,2-Dichlorobenzene	0.500	U
107-06-2	1,2-Dichloroethane	0.500	U
78-87-5	1,2-Dichloropropane	0.500	U
108-67-8	1,3,5-Trimethylbenzene	0.500	U
541-73-1	1,3-Dichlorobenzene	0.500	U
106-46-7	1,4-Dichlorobenzene	0.500	U
123-91-1	1,4-Dioxane	80.0	U
78-93-3	2-Butanone	0.500	U
591-78-6	2-Hexanone	0.500	U
108-10-1	4-Methyl-2-pentanone	0.500	U
67-64-1	Acetone	2.00	U
107-02-8	Acrolein	0.500	U
107-13-1	Acrylonitrile	0.500	U
71-43-2	Benzene	0.500	U
74-97-5	Bromochloromethane	0.500	U
75-27-4	Bromodichloromethane	0.500	U
75-25-2	Bromoform	0.500	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Water Laboratory ID: BJ1344-BLK1 File ID: QV6252581.D
 Prepared: 10/19/23 06:15 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 10/19/23 12:19 Instrument: QVOA6
 Batch: BJ1344 Sequence: S3J2001 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.500	U
75-15-0	Carbon disulfide	0.500	U
56-23-5	Carbon tetrachloride	0.500	U
108-90-7	Chlorobenzene	0.500	U
75-00-3	Chloroethane	0.500	U
67-66-3	Chloroform	0.500	U
74-87-3	Chloromethane	0.500	U
156-59-2	cis-1,2-Dichloroethylene	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	0.500	U
110-82-7	Cyclohexane	0.500	U
124-48-1	Dibromochloromethane	0.500	U
74-95-3	Dibromomethane	0.500	U
75-71-8	Dichlorodifluoromethane	0.500	U
100-41-4	Ethyl Benzene	0.500	U
87-68-3	Hexachlorobutadiene	0.500	U
98-82-8	Isopropylbenzene	0.500	U
79-20-9	Methyl acetate	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.500	U
108-87-2	Methylcyclohexane	0.500	U
75-09-2	Methylene chloride	2.00	U
104-51-8	n-Butylbenzene	0.500	U
103-65-1	n-Propylbenzene	0.500	U
95-47-6	o-Xylene	0.500	U
179601-23-1	p- & m- Xylenes	1.00	U
99-87-6	p-Isopropyltoluene	0.500	U
135-98-8	sec-Butylbenzene	0.500	U
100-42-5	Styrene	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1.00	U
98-06-6	tert-Butylbenzene	0.500	U
127-18-4	Tetrachloroethylene	0.500	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Water Laboratory ID: BJ31344-BLK1 File ID: QV6252581.D
 Prepared: 10/19/23 06:15 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 10/19/23 12:19 Instrument: QVOA6
 Batch: BJ31344 Sequence: S3J2001 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.500	U
156-60-5	trans-1,2-Dichloroethylene	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	0.500	U
79-01-6	Trichloroethylene	0.500	U
75-69-4	Trichlorofluoromethane	0.500	U
75-01-4	Vinyl Chloride	0.500	U
1330-20-7	Xylenes, Total	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	8.94	89.4	69 - 130	
SURR: Toluene-d8	10.0	10.6	106	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.4	114	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	177817	5.7	185237	5.697	
ISTD: Chlorobenzene-d5	640728	8.738	699711	8.732	
ISTD: 1,2-Dichlorobenzene-d4	159568	11.715	219846	11.715	

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252581.D
 Acq On : 19 Oct 2023 12:19 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31344-BLK1
 Misc : QBQV6101923A
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 19 23:19:54 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

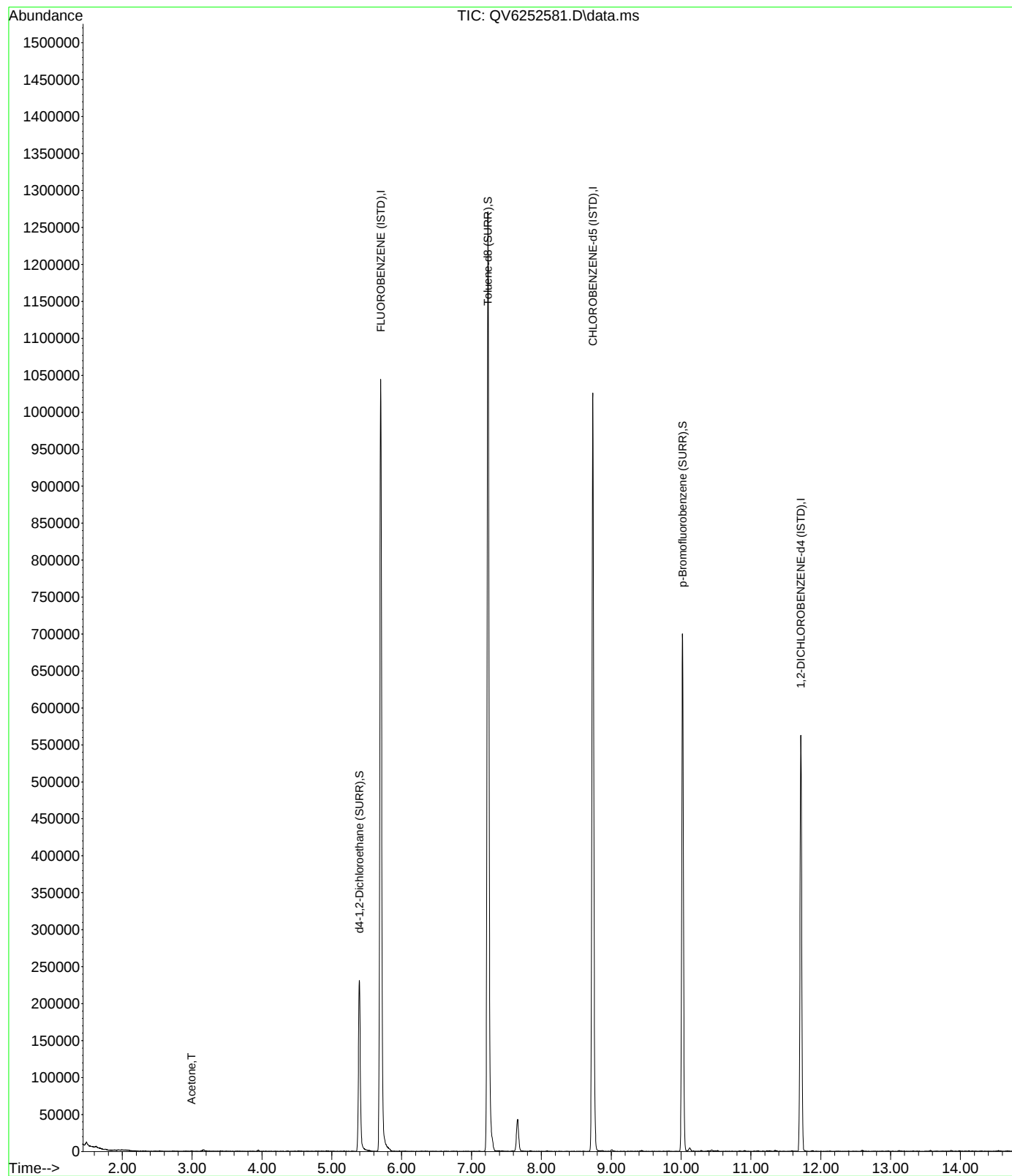
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

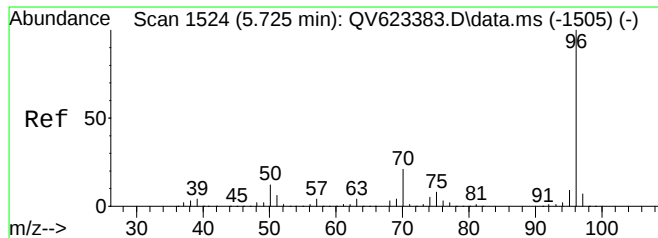
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	177817	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.738	117	640728	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.715	152	159568	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	155057	8.94	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	89.40%	
56) Toluene-d8 (SURR)	7.235	98	943467	10.58	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	105.80%	
79) p-Bromofluorobenzene (...)	10.020	95	260557	11.43	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	114.30%	
Target Compounds						
14) Acetone	2.990	43	560m	0.44	ppb	Qvalue

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252581.D
Acq On : 19 Oct 2023 12:19 pm
InstName : QVOA6
Operator : JTG
Sample : BJ31344-BLK1
Misc : QBQV6101923A
ALS Vial : 8 Sample Multiplier: 1

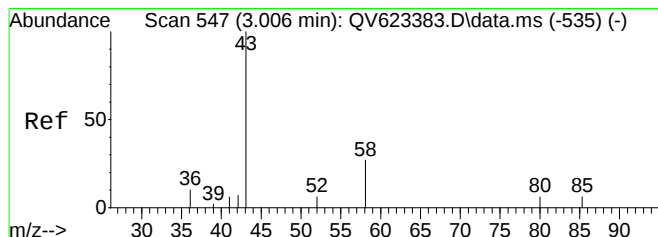
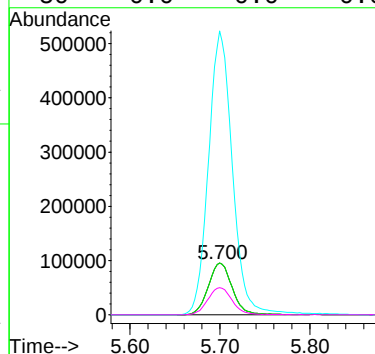
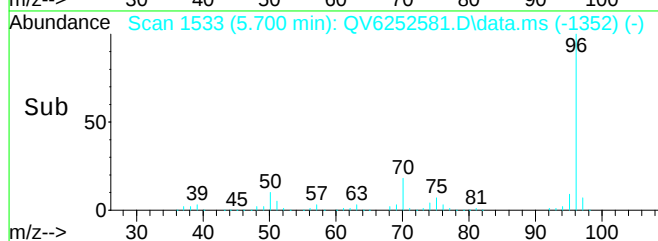
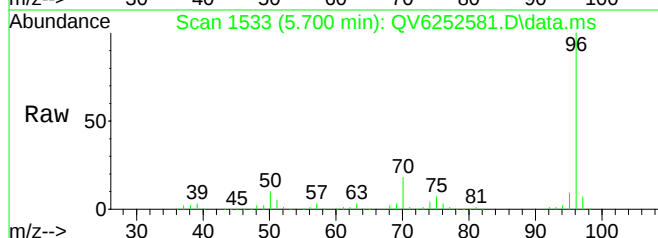
Quant Time: Oct 19 23:19:54 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





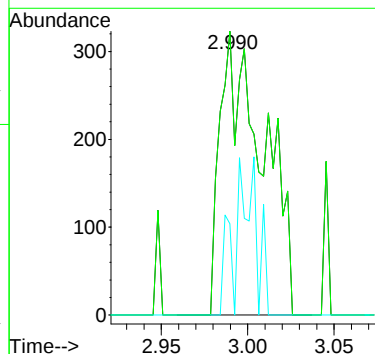
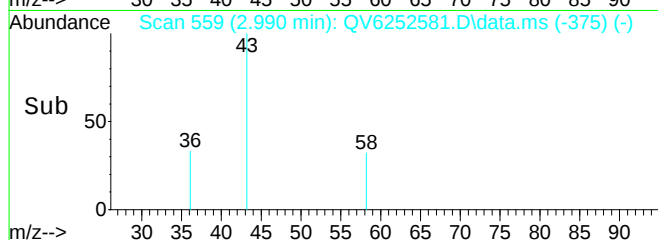
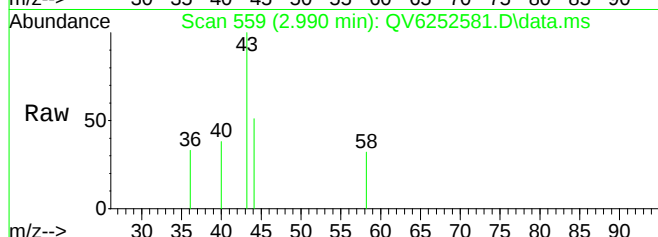
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252581.D
 Acq: 19 Oct 2023 12:19 pm

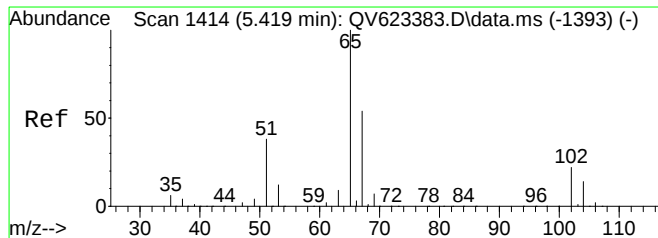
Tgt Ion: 70 Resp: 177817
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 545.7 341.1 708.3
 50 0.0 0.0 0.0



#14
 Acetone
 Concen: 0.44 ppb m
 RT: 2.990 min Scan# 559
 Delta R.T. 0.011 min
 Lab File: QV6252581.D
 Acq: 19 Oct 2023 12:19 pm

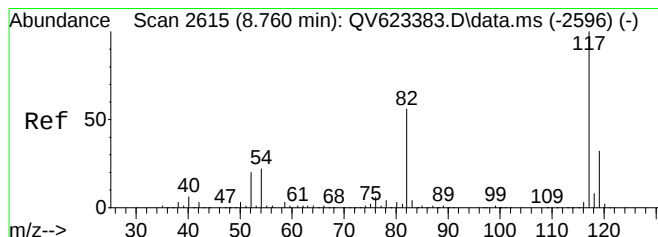
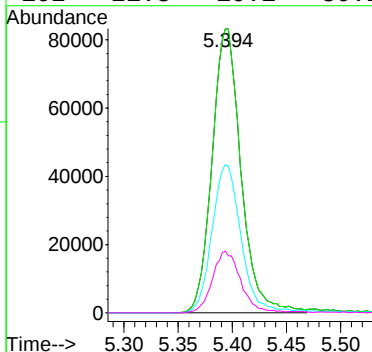
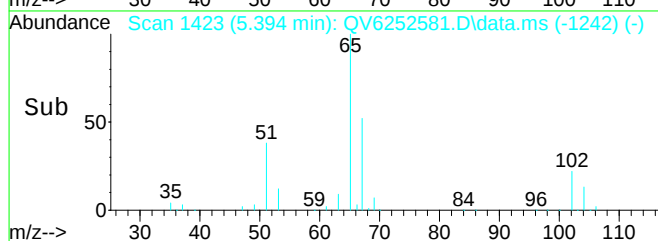
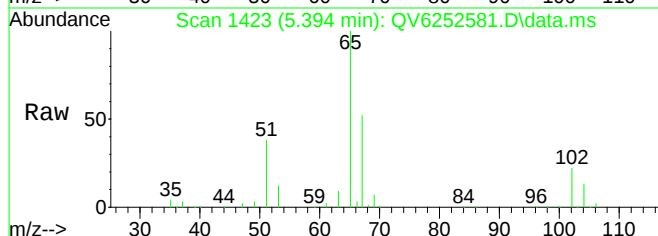
Tgt Ion: 43 Resp: 560
 Ion Ratio Lower Upper
 43 100
 43 34.6 80.0 120.0#
 58 6.4 6.0 18.1





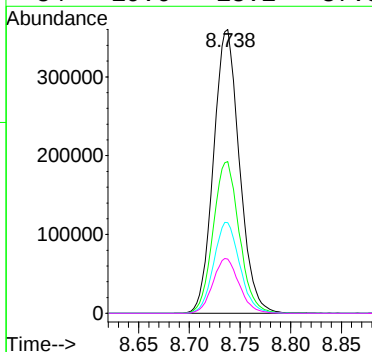
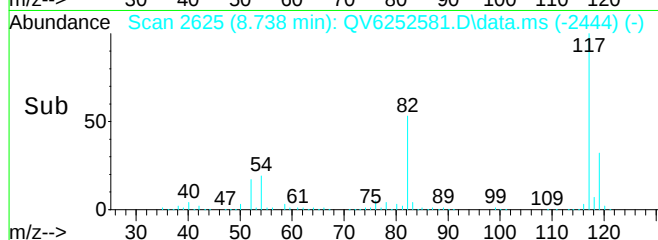
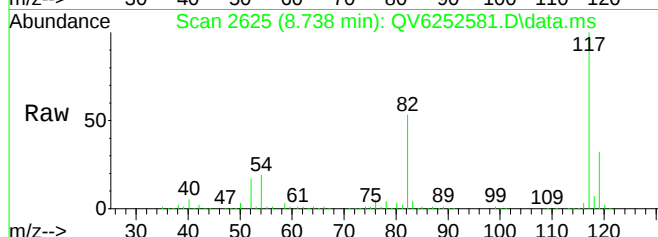
#38
d4-1,2-Dichloroethane (SURRE)
Concen: 8.94 ppb
RT: 5.394 min Scan# 1423
Delta R.T. 0.003 min
Lab File: QV6252581.D
Acq: 19 Oct 2023 12:19 pm

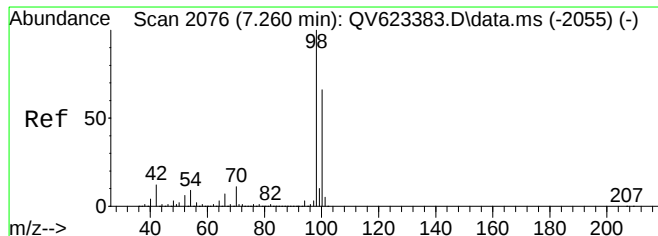
Tgt Ion: 65 Resp: 155057
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 52.2 34.0 70.6
102 21.3 10.1 30.1



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.738 min Scan# 2625
Delta R.T. 0.003 min
Lab File: QV6252581.D
Acq: 19 Oct 2023 12:19 pm

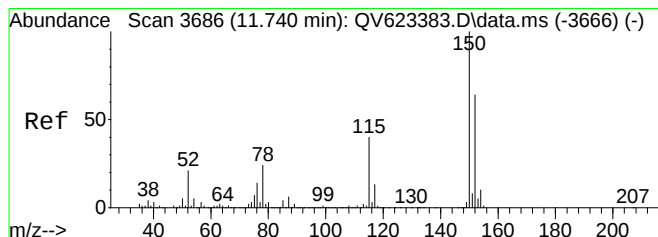
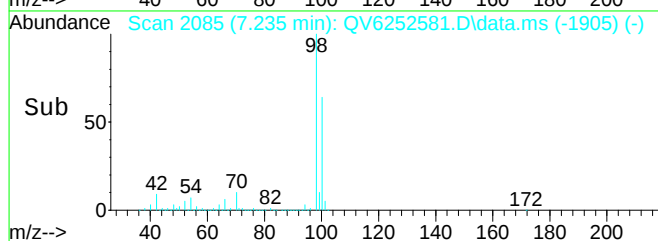
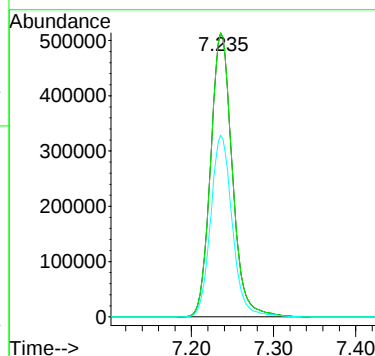
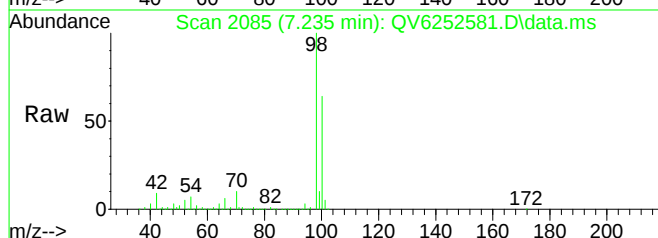
Tgt Ion: 117 Resp: 640728
Ion Ratio Lower Upper
117 100
82 53.8 34.5 71.7
119 32.3 20.9 43.3
54 19.6 18.1 37.5





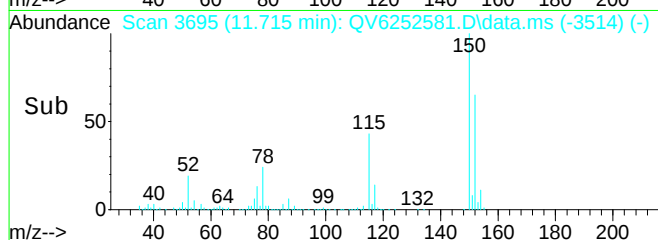
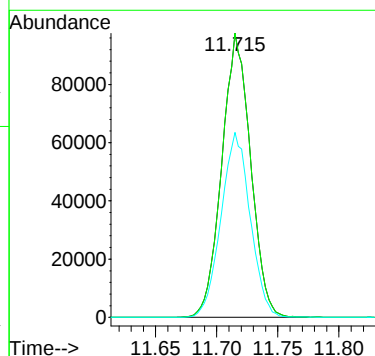
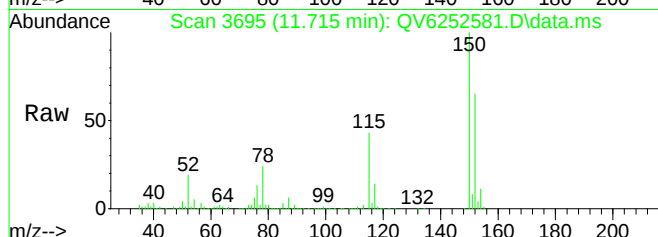
#56
Toluene-d8 (Surr)
Concen: 10.58 ppb
RT: 7.235 min Scan# 2085
Delta R.T. -0.001 min
Lab File: QV6252581.D
Acq: 19 Oct 2023 12:19 pm

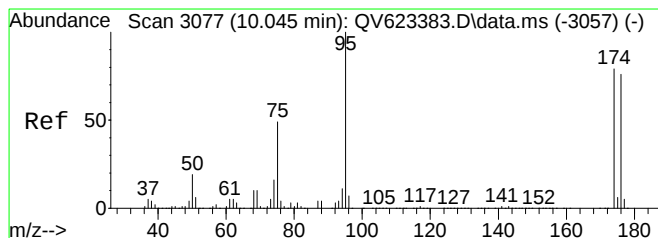
Tgt Ion: 98 Resp: 943467
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.7 44.2 91.8



#76
1,2-DICHLOROBENZENE-d4 (Istd)
Concen: 10.00 ppb
RT: 11.715 min Scan# 3695
Delta R.T. 0.003 min
Lab File: QV6252581.D
Acq: 19 Oct 2023 12:19 pm

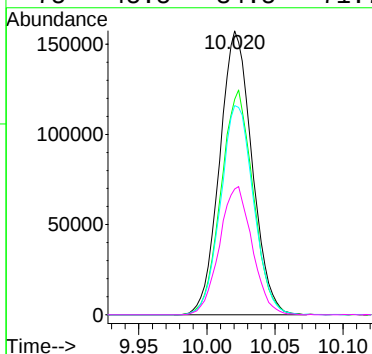
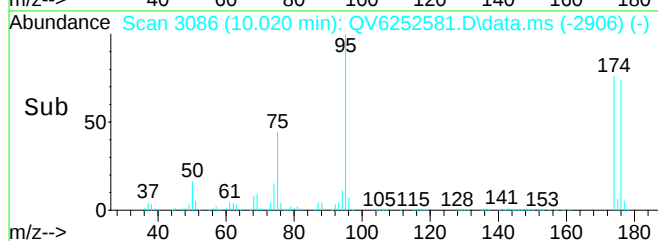
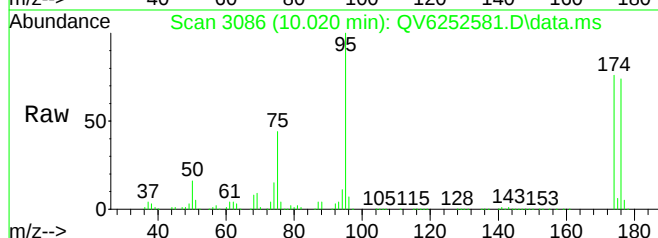
Tgt Ion: 152 Resp: 159568
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 66.0 29.8 89.3





#79
 p-Bromofluorobenzene (SURRE)
 Concen: 11.43 ppb
 RT: 10.020 min Scan# 3086
 Delta R.T. -0.001 min
 Lab File: QV6252581.D
 Acq: 19 Oct 2023 12:19 pm

Tgt Ion:	95	Resp:	260557
Ion Ratio	Lower	Upper	
95	100		
174	78.4	62.5	129.9
176	75.0	60.7	126.1
75	45.5	34.5	71.7



METHOD BLANK RAW DATA

SDG: 23J1154
CLASS: VOA
METHOD: EPA 8260C

FORM I**METHOD BLANK DATA SHEET
EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water Laboratory ID: BJ31371-BLK1 File ID: QV6252607.D
Prepared: 10/19/23 06:17 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Analyzed: 10/19/23 23:11 Instrument: QVOA6
Batch: BJ31371 Sequence: S3J2002 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.500	U
71-55-6	1,1,1-Trichloroethane	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.500	U
79-00-5	1,1,2-Trichloroethane	0.500	U
75-34-3	1,1-Dichloroethane	0.500	U
75-35-4	1,1-Dichloroethylene	0.500	U
87-61-6	1,2,3-Trichlorobenzene	0.500	U
96-18-4	1,2,3-Trichloropropane	0.500	U
120-82-1	1,2,4-Trichlorobenzene	0.500	U
95-63-6	1,2,4-Trimethylbenzene	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	0.500	U
106-93-4	1,2-Dibromoethane	0.500	U
95-50-1	1,2-Dichlorobenzene	0.500	U
107-06-2	1,2-Dichloroethane	0.500	U
78-87-5	1,2-Dichloropropane	0.500	U
108-67-8	1,3,5-Trimethylbenzene	0.500	U
541-73-1	1,3-Dichlorobenzene	0.500	U
106-46-7	1,4-Dichlorobenzene	0.500	U
123-91-1	1,4-Dioxane	80.0	U
78-93-3	2-Butanone	0.500	U
591-78-6	2-Hexanone	0.500	U
108-10-1	4-Methyl-2-pentanone	0.500	U
67-64-1	Acetone	2.00	U
107-02-8	Acrolein	0.500	U
107-13-1	Acrylonitrile	0.500	U
71-43-2	Benzene	0.500	U
74-97-5	Bromochloromethane	0.500	U
75-27-4	Bromodichloromethane	0.500	U
75-25-2	Bromoform	0.500	U

FORM I

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
 Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
 Matrix: Water Laboratory ID: BJ31371-BLK1 File ID: QV6252607.D
 Prepared: 10/19/23 06:17 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
 Analyzed: 10/19/23 23:11 Instrument: QVOA6
 Batch: BJ31371 Sequence: S3J2002 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.500	U
75-15-0	Carbon disulfide	0.500	U
56-23-5	Carbon tetrachloride	0.500	U
108-90-7	Chlorobenzene	0.500	U
75-00-3	Chloroethane	0.500	U
67-66-3	Chloroform	0.500	U
74-87-3	Chloromethane	0.500	U
156-59-2	cis-1,2-Dichloroethylene	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	0.500	U
110-82-7	Cyclohexane	0.500	U
124-48-1	Dibromochloromethane	0.500	U
74-95-3	Dibromomethane	0.500	U
75-71-8	Dichlorodifluoromethane	0.500	U
100-41-4	Ethyl Benzene	0.500	U
87-68-3	Hexachlorobutadiene	0.500	U
98-82-8	Isopropylbenzene	0.500	U
79-20-9	Methyl acetate	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.500	U
108-87-2	Methylcyclohexane	0.500	U
75-09-2	Methylene chloride	2.00	U
104-51-8	n-Butylbenzene	0.500	U
103-65-1	n-Propylbenzene	0.500	U
95-47-6	o-Xylene	0.500	U
179601-23-1	p- & m- Xylenes	1.00	U
99-87-6	p-Isopropyltoluene	0.500	U
135-98-8	sec-Butylbenzene	0.500	U
100-42-5	Styrene	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1.00	U
98-06-6	tert-Butylbenzene	0.500	U
127-18-4	Tetrachloroethylene	0.500	U

FORM I**METHOD BLANK DATA SHEET
EPA 8260C**

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23J1154
Client: Langan Engineering & Environmental Services (NYC) Project: 170199901
Matrix: Water Laboratory ID: BJ31371-BLK1 File ID: QV6252607.D
Prepared: 10/19/23 06:17 Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL
Analyzed: 10/19/23 23:11 Instrument: QVOA6
Batch: BJ31371 Sequence: S3J2002 Calibration: SI30036

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.500	U
156-60-5	trans-1,2-Dichloroethylene	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	0.500	U
79-01-6	Trichloroethylene	0.500	U
75-69-4	Trichlorofluoromethane	0.500	U
75-01-4	Vinyl Chloride	0.500	U
1330-20-7	Xylenes, Total	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	174355	5.7	178352	5.7	
ISTD: Chlorobenzene-d5	648500	8.735	674501	8.735	
ISTD: 1,2-Dichlorobenzene-d4	194957	11.715	220537	11.715	

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252607.D
 Acq On : 19 Oct 2023 11:11 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31371-BLK1
 Misc : QBQV6101923B
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Oct 20 00:18:01 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

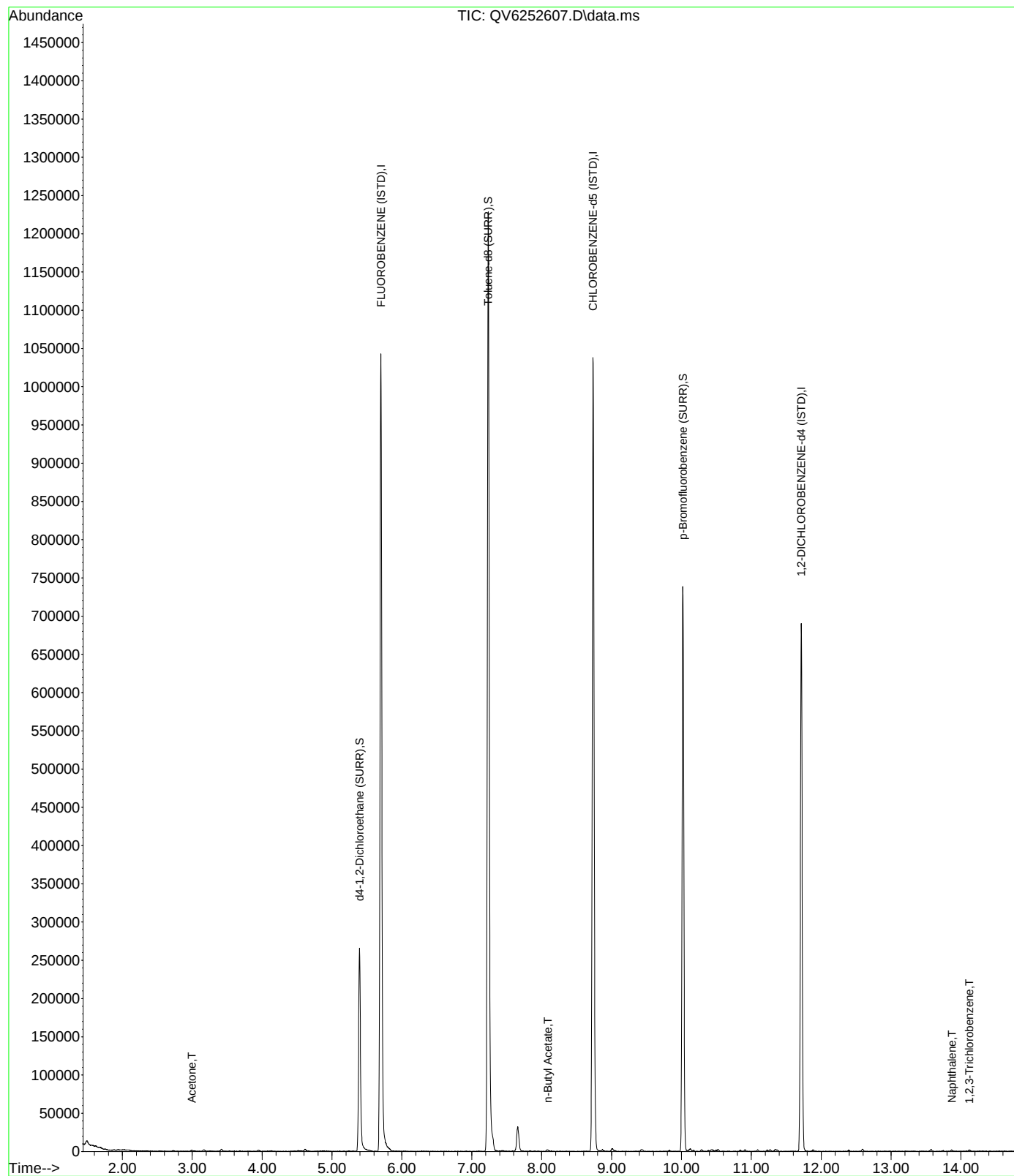
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

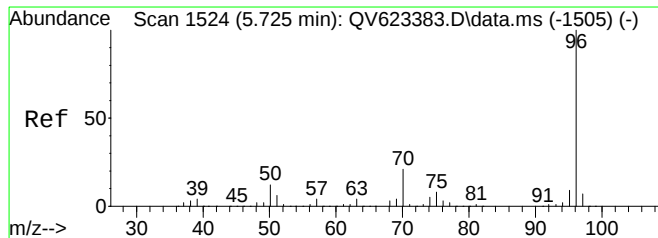
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	174355	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	648500	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.715	152	194957	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	175812	10.34	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	103.40%	
56) Toluene-d8 (SURR)	7.235	98	924565	10.25	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.50%	
79) p-Bromofluorobenzene (...)	10.021	95	285693	10.26	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	102.60%	
Target Compounds						
14) Acetone	2.993	43	1599	1.28	ppb	Qvalue 99
65) n-Butyl Acetate	8.087	56	858m	0.31	ppb	
109) Naphthalene	13.871	128	1686m	0.16	ppb	
110) 1,2,3-Trichlorobenzene	14.119	180	588	0.15	ppb	# 80

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252607.D
Acq On : 19 Oct 2023 11:11 pm
InstName : QVOA6
Operator : JTG
Sample : BJ31371-BLK1
Misc : QBQV6101923B
ALS Vial : 34 Sample Multiplier: 1

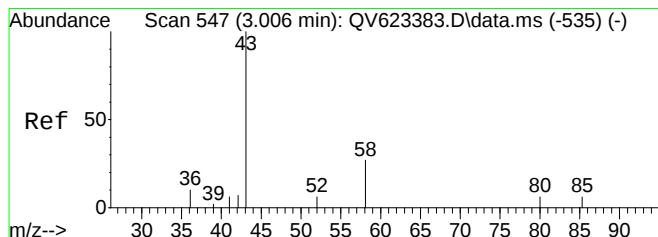
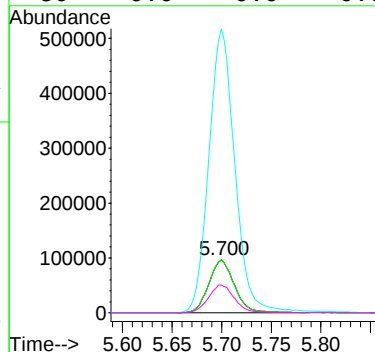
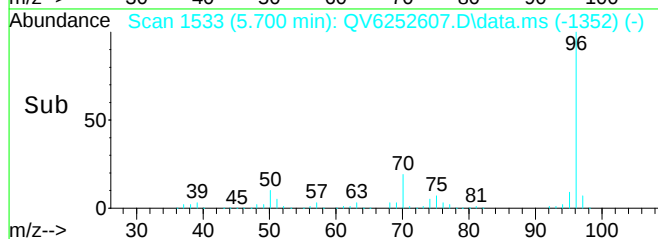
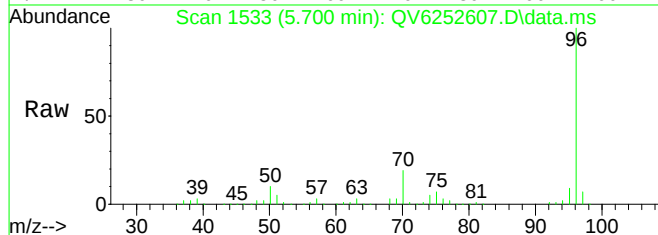
Quant Time: Oct 20 00:18:01 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration





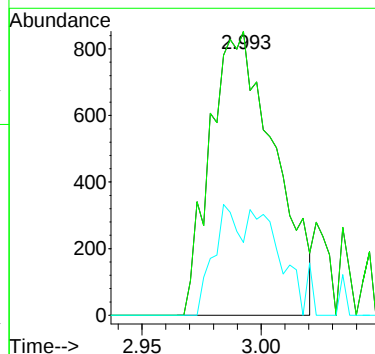
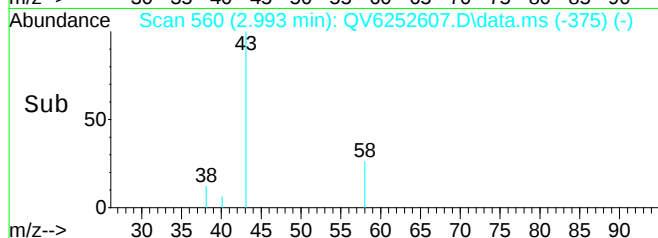
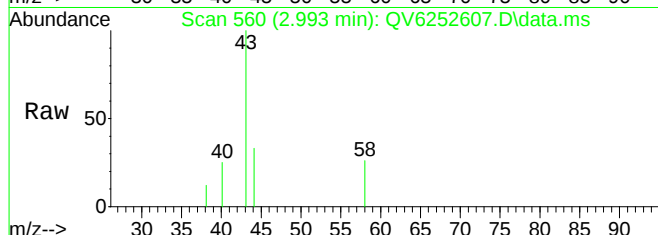
#1
 FLUOROBENZENE (ISTD)
 Concen: 10.00 ppb
 RT: 5.700 min Scan# 1533
 Delta R.T. 0.003 min
 Lab File: QV6252607.D
 Acq: 19 Oct 2023 11:11 pm

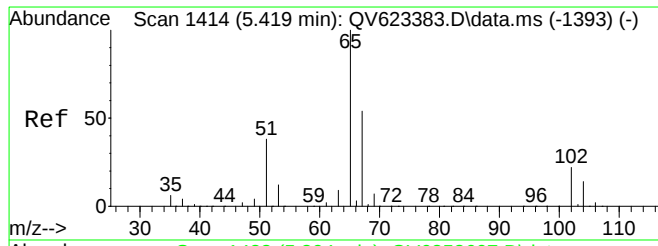
Tgt Ion: 70 Resp: 174355
 Ion Ratio Lower Upper
 70 100
 70 100.0 65.0 135.0
 96 545.0 341.1 708.3
 50 0.0 0.0 0.0



#14
 Acetone
 Concen: 1.28 ppb
 RT: 2.993 min Scan# 560
 Delta R.T. 0.014 min
 Lab File: QV6252607.D
 Acq: 19 Oct 2023 11:11 pm

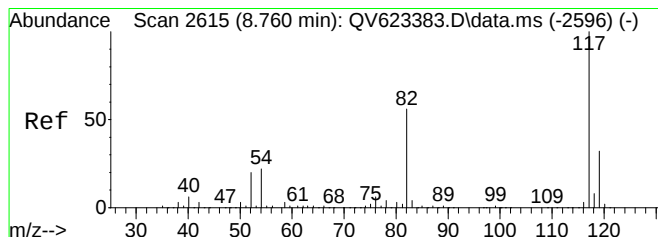
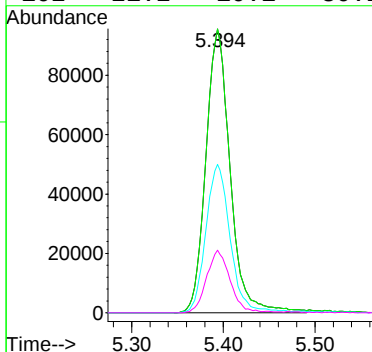
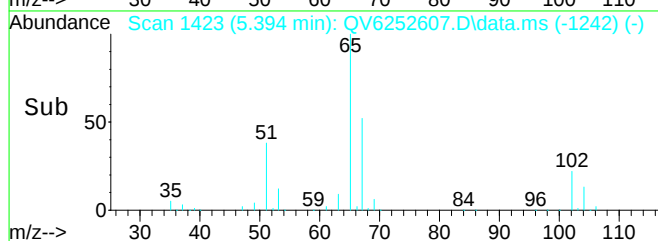
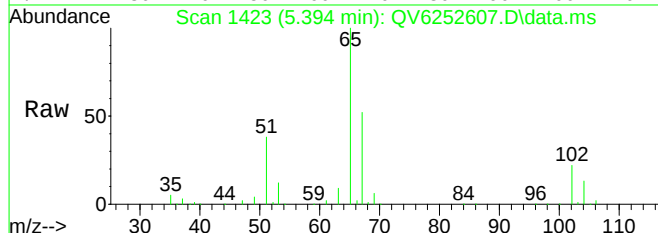
Tgt Ion: 43 Resp: 1599
 Ion Ratio Lower Upper
 43 100
 43 100.0 80.0 120.0
 58 16.4 6.0 18.1





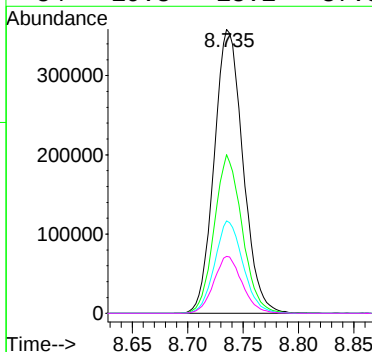
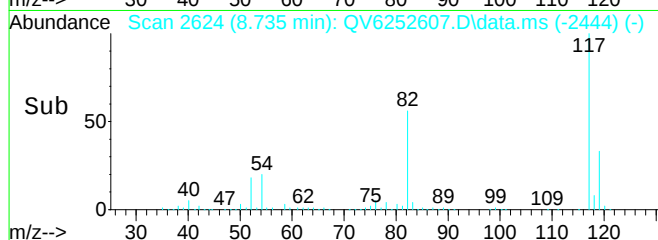
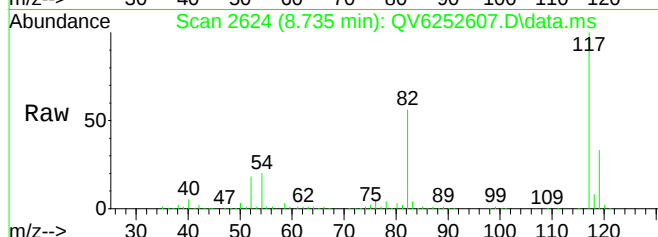
#38
d4-1,2-Dichloroethane (SURRE)
Concen: 10.34 ppb
RT: 5.394 min Scan# 1423
Delta R.T. 0.003 min
Lab File: QV6252607.D
Acq: 19 Oct 2023 11:11 pm

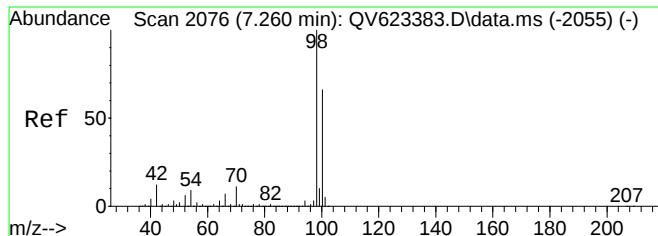
Tgt Ion: 65 Resp: 175812
Ion Ratio Lower Upper
65 100
65 100.0 65.0 135.0
67 52.4 34.0 70.6
102 21.2 10.1 30.1



#44
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.735 min Scan# 2624
Delta R.T. 0.000 min
Lab File: QV6252607.D
Acq: 19 Oct 2023 11:11 pm

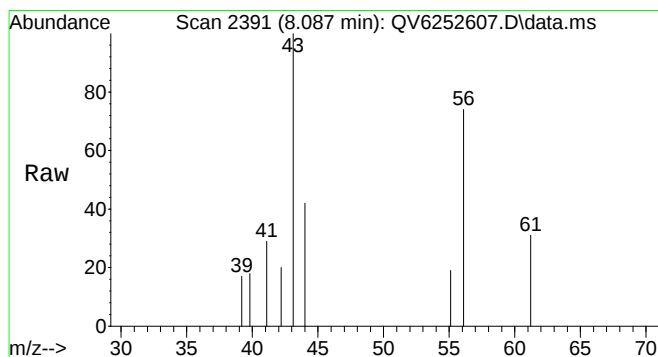
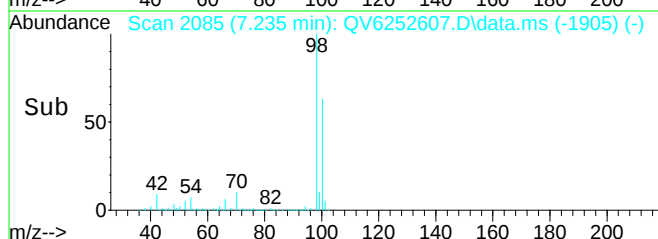
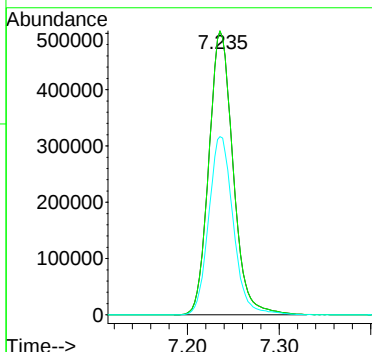
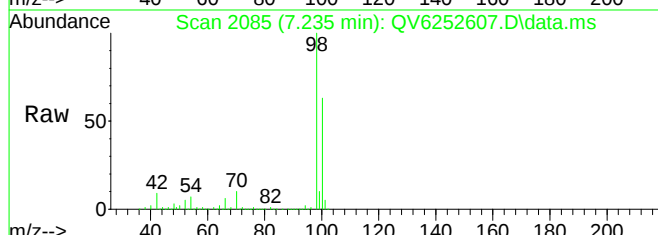
Tgt Ion: 117 Resp: 648500
Ion Ratio Lower Upper
117 100
82 54.0 34.5 71.7
119 32.0 20.9 43.3
54 19.8 18.1 37.5





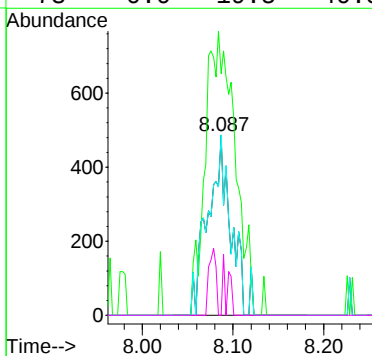
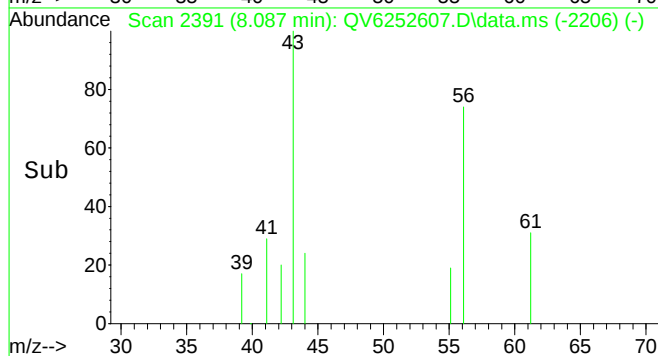
#56
Toluene-d8 (Surr)
Concen: 10.25 ppb
RT: 7.235 min Scan# 2085
Delta R.T. -0.001 min
Lab File: QV6252607.D
Acq: 19 Oct 2023 11:11 pm

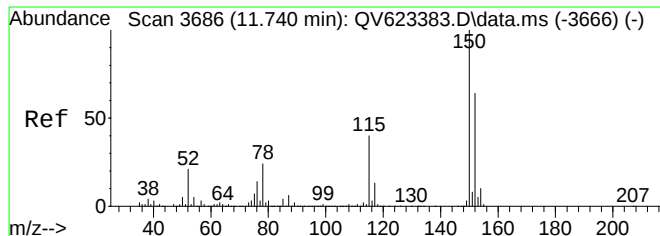
Tgt Ion: 98 Resp: 924565
Ion Ratio Lower Upper
98 100
98 100.0 65.0 135.0
100 63.5 44.2 91.8



#65
n-Butyl Acetate
Concen: 0.31 ppb m
RT: 8.087 min Scan# 2391
Delta R.T. 0.014 min
Lab File: QV6252607.D
Acq: 19 Oct 2023 11:11 pm

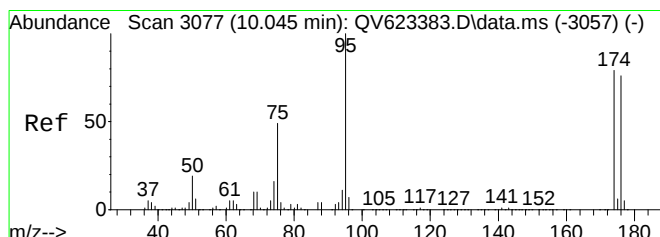
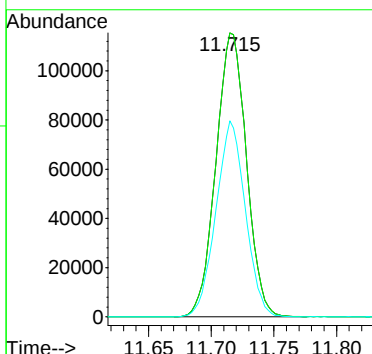
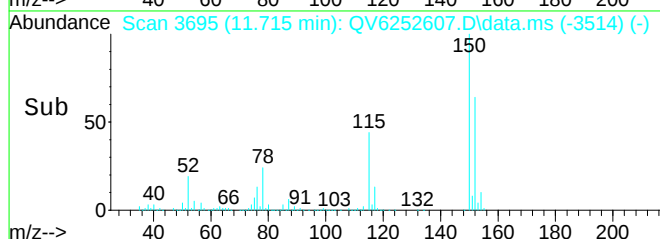
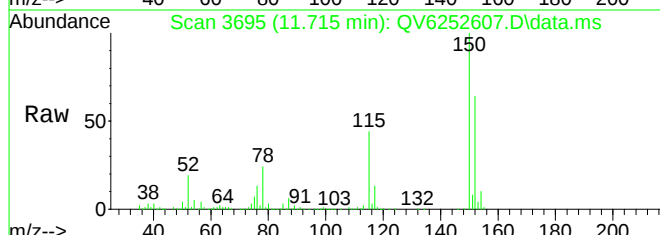
Tgt Ion: 56 Resp: 858
Ion Ratio Lower Upper
56 100
43 0.0 65.0 135.0#
56 19.8 45.5 94.5#
73 0.0 19.5 40.5#





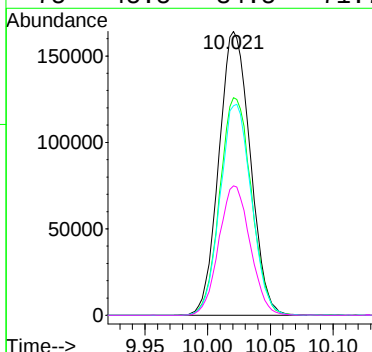
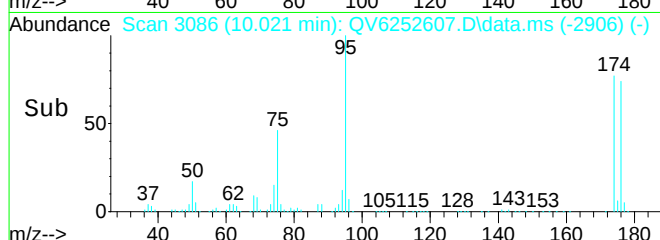
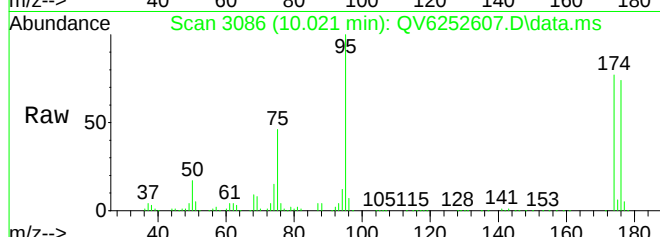
#76
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.715 min Scan# 3695
Delta R.T. 0.003 min
Lab File: QV6252607.D
Acq: 19 Oct 2023 11:11 pm

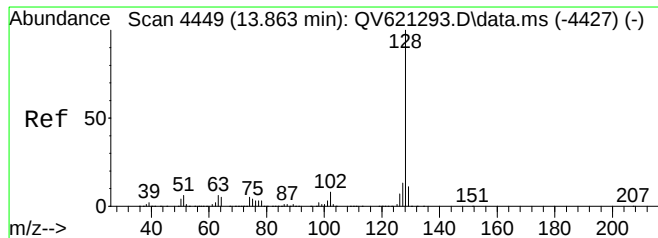
Tgt Ion: 152 Resp: 194957
Ion Ratio Lower Upper
152 100
152 100.0 50.0 150.0
115 66.6 29.8 89.3



#79
p-Bromofluorobenzene (SURR)
Concen: 10.26 ppb
RT: 10.021 min Scan# 3086
Delta R.T. -0.000 min
Lab File: QV6252607.D
Acq: 19 Oct 2023 11:11 pm

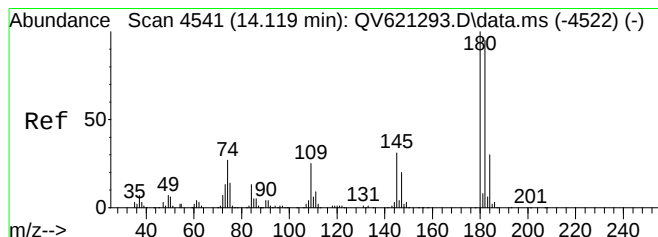
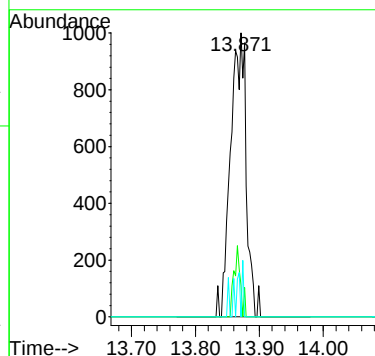
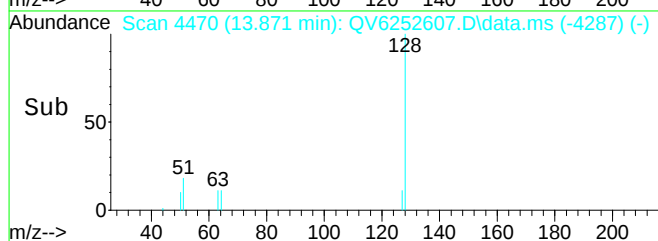
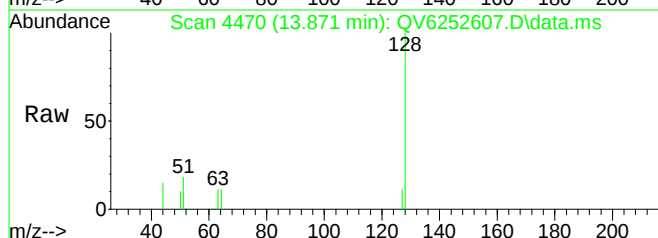
Tgt Ion: 95 Resp: 285693
Ion Ratio Lower Upper
95 100
174 77.3 62.5 129.9
176 74.3 60.7 126.1
75 45.5 34.5 71.7





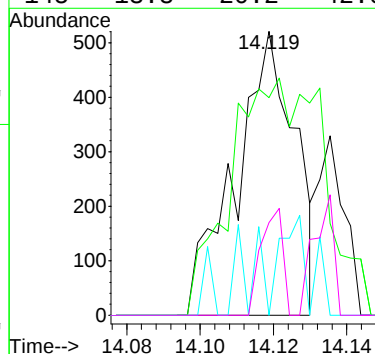
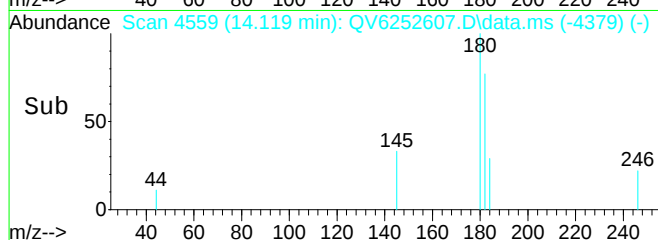
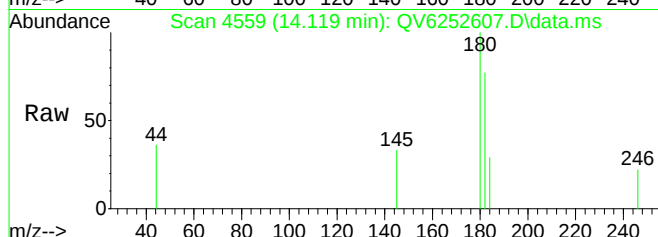
#109
Naphthalene
Concen: 0.16 ppb m
RT: 13.871 min Scan# 4470
Delta R.T. 0.008 min
Lab File: QV6252607.D
Acq: 19 Oct 2023 11:11 pm

Tgt Ion:128 Resp: 1686
Ion Ratio Lower Upper
128 100
127 10.4 8.9 18.5
129 4.2 7.3 15.3#



#110
1,2,3-Trichlorobenzene
Concen: 0.15 ppb
RT: 14.119 min Scan# 4559
Delta R.T. -0.000 min
Lab File: QV6252607.D
Acq: 19 Oct 2023 11:11 pm

Tgt Ion:180 Resp: 588
Ion Ratio Lower Upper
180 100
182 83.2 59.9 124.3
74 4.8 17.2 35.8#
145 13.8 20.2 42.0#



MATRIX SPIKE RAW DATA

SDG: 23J1154
CLASS: VOA
METHOD: EPA 8260C

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252596.D
 Acq On : 19 Oct 2023 6:40 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31344-MS1
 Misc : QBQV6101923A 8260 E AF 23J1154-04
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 19 23:44:32 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	173848	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	659944	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	218263	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	180415	10.64	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	106.40%	
56) Toluene-d8 (SURR)	7.235	98	940243	10.24	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.40%	
79) p-Bromofluorobenzene (...)	10.020	95	300522	9.64	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	96.40%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.498	85	149834	11.75	ppb	# 1
3) Freon-22	1.537	51	149143	11.37	ppb	# 98
4) Chloromethane	1.696	50	117558	9.64	ppb	# 72
5) Vinyl Chloride	1.777	62	171016	12.14	ppb	# 47
6) Bromomethane	2.091	94	23631m	3.99	ppb	
7) Chloroethane	2.200	64	128404	12.17	ppb	90
8) Trichlorofluoromethane	2.450	101	274774	12.35	ppb	98
10) Ethyl Ether	2.723	45	517764	106.12	ppb	# 61
11) Freon-113	2.962	101	150040	10.78	ppb	99
12) 1,1-Dichloroethylene	2.948	61	230543	11.37	ppb	89
13) Acrolein	2.845	56	8463	11.81	ppb	# 83
14) Acetone	2.984	43	11746	9.47	ppb	# 93
15) Iodomethane	3.087	142	73105	4.57	ppb	98
16) Allyl Chloride	3.296	76	82798	10.50	ppb	# 100
17) Methyl Acetate	3.285	43	27523	9.33	ppb	# 97
18) Carbon disulfide	3.165	76	382437	10.28	ppb	100
19) tert-Butyl Alcohol (TBA)	3.524	59	11256m	35.53	ppb	
20) Methylene Chloride	3.418	49	174906	10.87	ppb	# 74
21) Acrylonitrile	3.621	53	14035	9.60	ppb	# 69
22) trans-1,2-Dichloroethy...	3.683	61	219367	10.91	ppb	95
23) tert-Butyl Methyl Ethe...	3.677	73	209311	10.12	ppb	# 88
24) Hexane	3.947	57	234323	10.96	ppb	# 15
25) 1,1-Dichloroethane	4.089	63	272140	10.59	ppb	# 88
26) Vinyl Acetate	4.086	43	99769	11.26	ppb	# 99
27) Diisopropyl ether (DIPE)	4.119	45	366141	11.02	ppb	# 96
28) Ethyl-tert-Butyl ether...	4.459	59	321047	10.55	ppb	# 96
29) cis-1,2-Dichloroethylene	4.615	61	279580	12.97	ppb	93
30) 2-Butanone	4.609	72	5625	9.40	ppb	# 95
31) 2,2-Dichloropropane	4.623	77	190769	9.86	ppb	90
32) Tetrahydrofuran	4.868	42	8894	8.84	ppb	# 20
33) Bromochloromethane	4.837	49	95194	10.72	ppb	# 85
34) Chloroform	4.926	83	250329	10.25	ppb	# 94
35) 1,1,1-Trichloroethane	5.090	97	245373	10.54	ppb	# 82
36) Cyclohexane	5.165	56	286993	5.25	ppb	82
37) 1,1-Dichloropropylene	5.238	75	203311	10.82	ppb	# 85
39) Carbon Tetrachloride	5.241	117	211147	10.63	ppb	99
40) tert-Amyl alcohol (TAA)	5.441	59	13471m	61.81	ppb	
41) 1,2-Dichloroethane	5.466	62	130775	10.25	ppb	99
42) Benzene	5.421	78	600523	10.95	ppb	# 85
43) tert-Amyl methyl ether...	5.544	73	225858	9.79	ppb	# 99
45) Trichloroethylene	6.045	95	162139	10.71	ppb	93
46) Methyl Cyclohexane	6.281	83	280263	10.86	ppb	88
47) Methyl Methacrylate	6.337	69	36257m	9.94	ppb	
48) Dibromomethane	6.373	93	56040	10.38	ppb	94
49) Bromodichloromethane	6.540	83	149927	10.24	ppb	# 94
50) 1,2-Dichloropropane	6.289	63	143051	11.74	ppb	# 99
51) 1,4-Dioxane	6.370	88	3546m	98.85	ppb	
52) 2-nitropropane	6.737	43	7888	7.10	ppb	# 100

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252596.D
 Acq On : 19 Oct 2023 6:40 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31344-MS1
 Misc : QBQV6101923A 8260 E AF 23J1154-04
 ALS Vial : 23 Sample Multiplier: 1

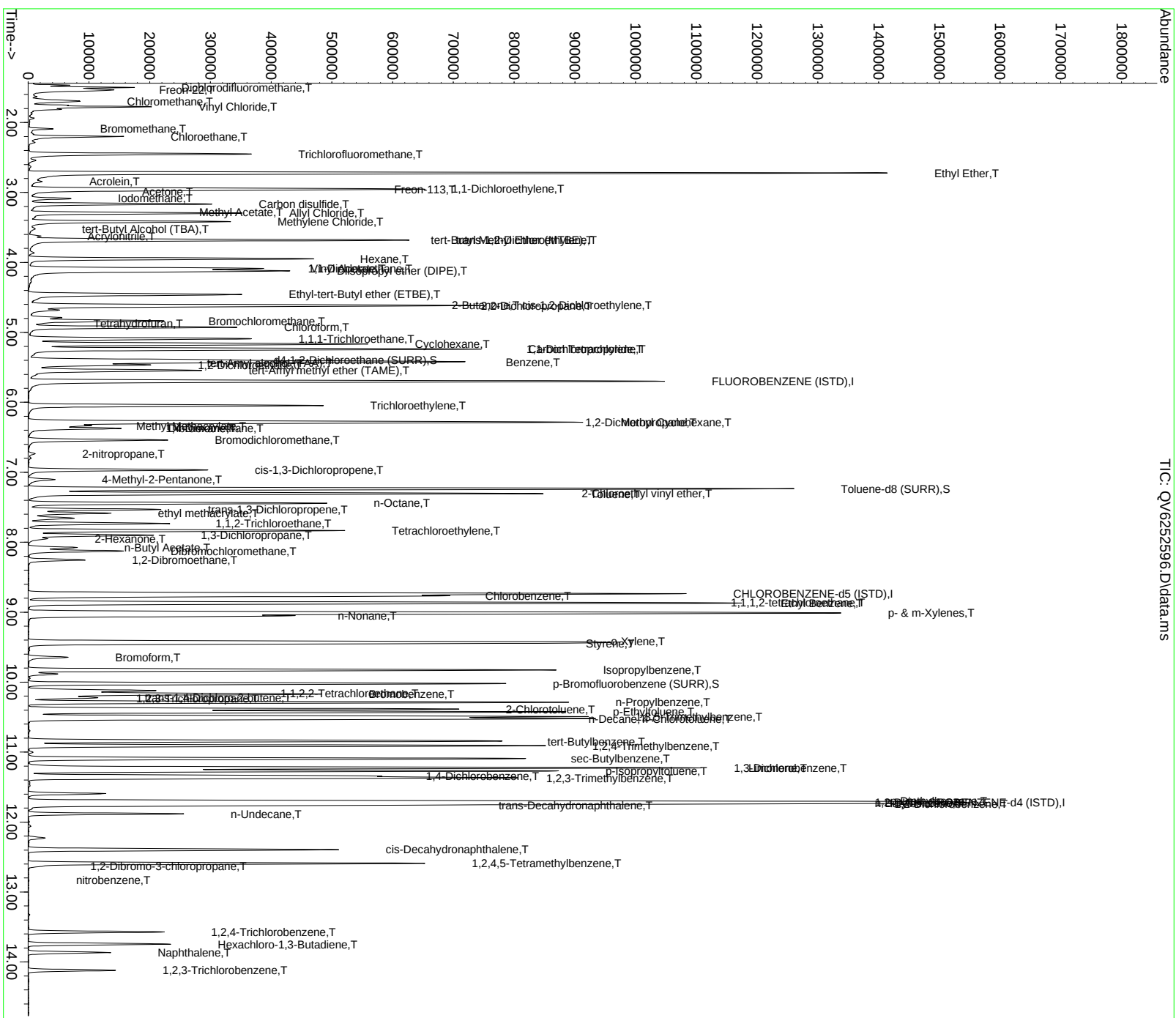
Quant Time: Oct 19 23:44:32 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53) 2-Chloroethyl vinyl ether	7.302	63	49554	11.60	ppb	#	93
54) cis-1,3-Dichloropropene	6.966	75	177750	10.35	ppb	#	79
55) 4-Methyl-2-Pentanone	7.102	43	34299	10.16	ppb	#	80
57) Toluene	7.305	91	656328	11.53	ppb		99
58) n-Octane	7.441	43	209481	10.79	ppb		97
59) trans-1,3-Dichloropropene	7.533	75	122129	10.07	ppb	#	91
60) ethyl methacrylate	7.583	69	77124	10.44	ppb	#	100
61) 1,1,2-Trichloroethane	7.731	97	79047	10.70	ppb		92
62) 1,3-Dichloropropane	7.898	76	130710	10.56	ppb	#	62
63) Tetrachloroethylene	7.834	166	159259	10.18	ppb	#	100
64) 2-Hexanone	7.950	43	21735	9.80	ppb	#	1
65) n-Butyl Acetate	8.076	56	31674	11.12	ppb	#	35
66) Dibromochloromethane	8.126	129	87986	10.15	ppb		98
67) 1,2-Dibromoethane	8.254	107	68628	10.56	ppb		98
68) Chlorobenzene	8.768	112	371418	10.79	ppb		93
69) 1,1,1,2-tetrachloroethane	8.863	131	115410	10.51	ppb		99
70) Ethyl Benzene	8.871	91	699557	11.86	ppb		97
71) p- & m-Xylenes	9.011	91	1075805	23.43	ppb		95
72) n-Nonane	9.052	43	145070	11.02	ppb	#	62
73) o-Xylene	9.422	91	528684	11.44	ppb		99
74) Styrene	9.445	104	367069	11.00	ppb		95
75) Bromoform	9.645	173	32572	7.45	ppb	#	79
77) p-Ethyltoluene	10.424	105	624828m	11.76	ppb		
78) Isopropylbenzene	9.826	105	635228	10.78	ppb		99
80) 1,1,2,2-Tetrachloroethane	10.160	83	64851	10.87	ppb	#	99
81) Bromobenzene	10.171	77	195850	10.44	ppb		91
82) trans-1,4-Dichloro-2-b...	10.221	75	55738	9.49	ppb	#	48
83) 1,2,3-Trichloropropane	10.229	110	18113	10.18	ppb		89
84) n-Propylbenzene	10.288	91	762005	10.80	ppb		98
85) 2-Chlorotoluene	10.385	91	443030	10.44	ppb		99
86) 4-Chlorotoluene	10.521	91	491677	10.89	ppb		97
87) n-Decane	10.527	43	78604	9.49	ppb		90
88) 1,3,5-Trimethylbenzene	10.493	105	520931	11.11	ppb	#	68
89) tert-Butylbenzene	10.844	119	443691	9.11	ppb		95
90) 1,2,4-Trimethylbenzene	10.908	105	502853	10.79	ppb		98
91) sec-Butylbenzene	11.094	105	639262	10.60	ppb		99
92) 1,3-Dichlorobenzene	11.222	146	245868	9.98	ppb		98
93) Limonene	11.225	68	148414	12.19	ppb		98
94) p-Isopropyltoluene	11.267	119	555254	10.66	ppb		98
95) 1,4-Dichlorobenzene	11.342	146	238265	9.83	ppb		97
96) 1,2,3-Trimethylbenzene	11.370	105	468630	12.04	ppb		99
97) p-Diethylbenzene	11.704	105	293688	10.73	ppb	#	99
98) 1,2-Dichlorobenzene	11.737	146	195679	10.23	ppb	#	88
99) n-Butylbenzene	11.732	91	586826	11.19	ppb		97
100) trans-Decahydronaphtha...	11.757	67	104729	10.78	ppb		92
101) n-Undecane	11.882	57	91957	6.84	ppb	#	63
103) cis-Decahydronaphthalene	12.394	81	105111	10.52	ppb	#	64
104) 1,2-Dibromo-3-chloropr...	12.630	75	5456	7.63	ppb		95
105) 1,2,4,5-Tetramethylben...	12.591	119	388039	10.48	ppb		99
106) nitrobenzene	12.833	77	413m	8.50	ppb		
107) 1,2,4-Trichlorobenzene	13.571	180	75757	9.89	ppb		96
108) Hexachloro-1,3-Butadiene	13.746	225	51163	10.13	ppb		98
109) Naphthalene	13.866	128	112912	9.53	ppb		98
110) 1,2,3-Trichlorobenzene	14.119	180	46703	10.35	ppb		96

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252596.D
Acq On : 19 Oct 2023 6:40 pm
InstName : QV0A6
Operator : JTG
Sample : B31344-MS1
Misc : Q8QV6101923A 8260 E AF 23J1154-04
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 19 23:44:32 2023
Quant Method : C:\msdchem\2\METHODS\V06L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252598.D
 Acq On : 19 Oct 2023 7:29 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31344-MSD1
 Misc : QBQV6101923A 8260 H AF 23J1154-04
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 19 23:11:23 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	174164	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.735	117	656100	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	222261	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	179412	10.57	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	105.70%	
56) Toluene-d8 (SURR)	7.236	98	930933	10.20	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.00%	
79) p-Bromofluorobenzene (...)	10.021	95	301678	9.50	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	95.00%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	150341	11.76	ppb	# 1
3) Freon-22	1.540	51	149711	11.40	ppb	# 98
4) Chloromethane	1.696	50	121922	9.98	ppb	# 40
5) Vinyl Chloride	1.777	62	172658	12.23	ppb	# 48
6) Bromomethane	2.091	94	26796m	4.52	ppb	
7) Chloroethane	2.200	64	128740	12.18	ppb	90
8) Trichlorofluoromethane	2.453	101	277404	12.44	ppb	98
10) Ethyl Ether	2.723	45	530947	108.63	ppb	# 60
11) Freon-113	2.962	101	148058	10.61	ppb	99
12) 1,1-Dichloroethylene	2.948	61	231745	11.41	ppb	90
13) Acrolein	2.848	56	9043	12.60	ppb	# 83
14) Acetone	2.987	43	12937	10.42	ppb	# 93
15) Iodomethane	3.090	142	82310	5.13	ppb	98
16) Allyl Chloride	3.299	76	80613	10.21	ppb	# 100
17) Methyl Acetate	3.288	43	28573	9.67	ppb	# 95
18) Carbon disulfide	3.165	76	384566	10.32	ppb	100
19) tert-Butyl Alcohol (TBA)	3.524	59	12610m	39.52	ppb	
20) Methylene Chloride	3.418	49	174455	10.82	ppb	# 74
21) Acrylonitrile	3.622	53	14681	10.03	ppb	# 66
22) trans-1,2-Dichloroethy...	3.683	61	219051	10.87	ppb	95
23) tert-Butyl Methyl Ethe...	3.680	73	222583	10.75	ppb	# 98
24) Hexane	3.950	57	234173	10.93	ppb	# 19
25) 1,1-Dichloroethane	4.089	63	271066	10.53	ppb	99
26) Vinyl Acetate	4.086	43	101790	11.46	ppb	# 99
27) Diisopropyl ether (DIPE)	4.122	45	371833	11.17	ppb	# 96
28) Ethyl-tert-Butyl ether...	4.459	59	328255	10.77	ppb	# 97
29) cis-1,2-Dichloroethylene	4.615	61	269112	12.47	ppb	92
30) 2-Butanone	4.606	72	6033	10.07	ppb	# 95
31) 2,2-Dichloropropane	4.626	77	187743	9.69	ppb	# 65
32) Tetrahydrofuran	4.868	42	9711	9.64	ppb	# 51
33) Bromochloromethane	4.835	49	94409	10.61	ppb	# 65
34) Chloroform	4.929	83	251591	10.28	ppb	# 94
35) 1,1,1-Trichloroethane	5.093	97	245452	10.52	ppb	96
36) Cyclohexane	5.168	56	289714	5.29	ppb	83
37) 1,1-Dichloropropylene	5.238	75	201910	10.72	ppb	# 85
39) Carbon Tetrachloride	5.241	117	211500	10.63	ppb	99
40) tert-Amyl alcohol (TAA)	5.438	59	15717m	71.99	ppb	
41) 1,2-Dichloroethane	5.466	62	133150	10.42	ppb	100
42) Benzene	5.422	78	597235	10.87	ppb	# 69
43) tert-Amyl methyl ether...	5.544	73	229516	9.93	ppb	# 99
45) Trichloroethylene	6.048	95	163113	10.84	ppb	92
46) Methyl Cyclohexane	6.281	83	282299	11.00	ppb	88
47) Methyl Methacrylate	6.334	69	37663	10.39	ppb	# 28
48) Dibromomethane	6.373	93	56615	10.55	ppb	94
49) Bromodichloromethane	6.540	83	152297	10.47	ppb	# 93
50) 1,2-Dichloropropane	6.292	63	141961	11.72	ppb	# 99
51) 1,4-Dioxane	6.376	88	4320m	121.28	ppb	
52) 2-nitropropane	6.735	43	8366	7.57	ppb	# 100

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252598.D
 Acq On : 19 Oct 2023 7:29 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31344-MSD1
 Misc : QBQV6101923A 8260 H AF 23J1154-04
 ALS Vial : 25 Sample Multiplier: 1

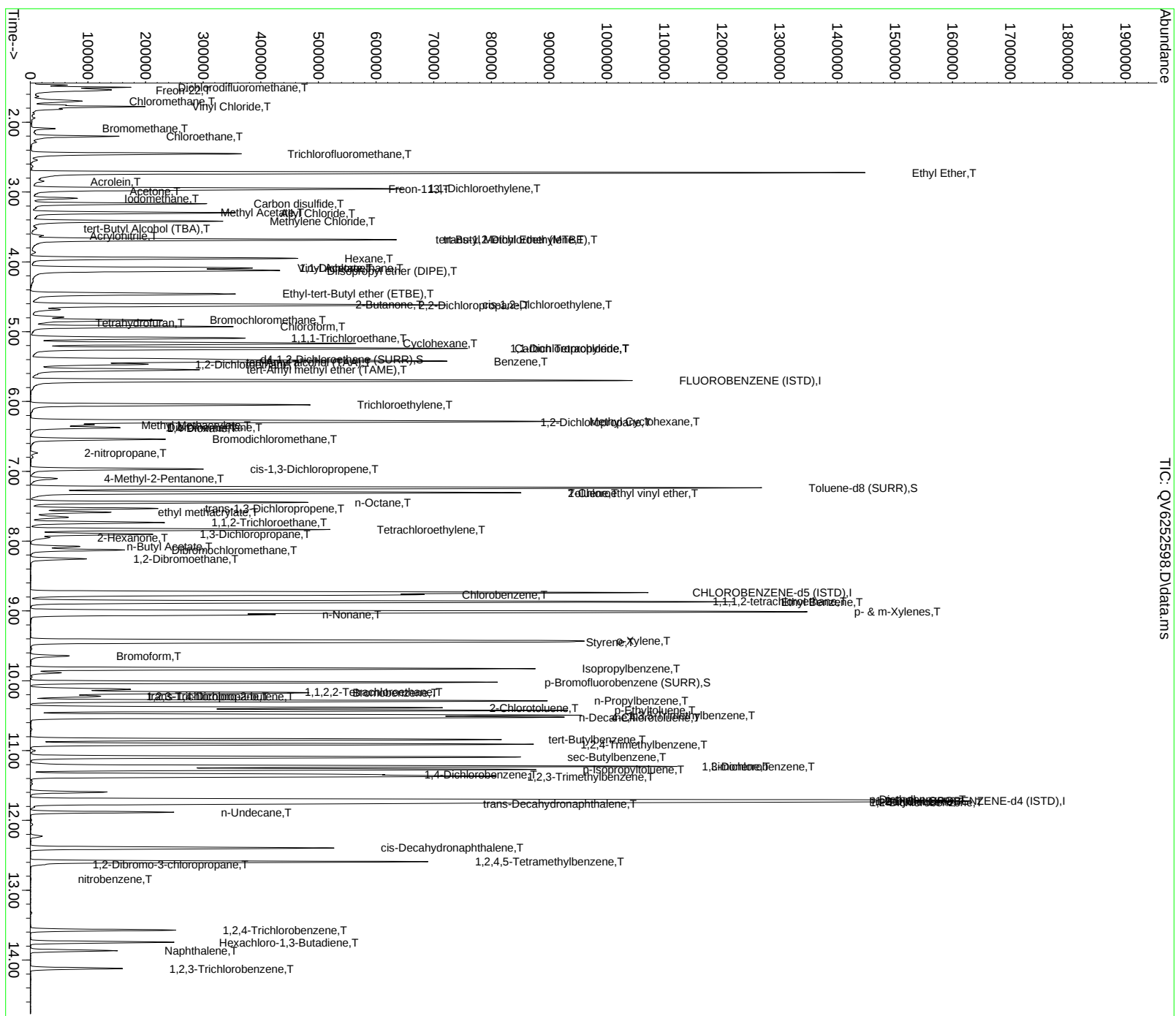
Quant Time: Oct 19 23:11:23 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	2-Chloroethyl vinyl ether	7.305	63	50332	11.86	ppb	#	93
54)	cis-1,3-Dichloropropene	6.969	75	178622	10.47	ppb	#	79
55)	4-Methyl-2-Pentanone	7.105	43	37391	11.14	ppb	#	80
57)	Toluene	7.305	91	660193	11.67	ppb		99
58)	n-Octane	7.444	43	205261	10.64	ppb	#	76
59)	trans-1,3-Dichloropropene	7.533	75	125557	10.41	ppb	#	89
60)	ethyl methacrylate	7.583	69	81746	11.13	ppb	#	100
61)	1,1,2-Trichloroethane	7.734	97	79787	10.86	ppb		92
62)	1,3-Dichloropropane	7.901	76	133433	10.85	ppb	#	54
63)	Tetrachloroethylene	7.834	166	159894	10.28	ppb	#	100
64)	2-Hexanone	7.948	43	23370	10.60	ppb	#	1
65)	n-Butyl Acetate	8.079	56	32863	11.60	ppb	#	33
66)	Dibromochloromethane	8.126	129	89269	10.36	ppb		97
67)	1,2-Dibromoethane	8.254	107	70041	10.84	ppb		97
68)	Chlorobenzene	8.769	112	372955	10.89	ppb		93
69)	1,1,1,2-tetrachloroethane	8.863	131	115676	10.59	ppb		98
70)	Ethyl Benzene	8.869	91	706463	12.05	ppb		96
71)	p- & m-Xylenes	9.011	91	1084340	23.76	ppb		95
72)	n-Nonane	9.052	43	140870	10.77	ppb		95
73)	o-Xylene	9.425	91	532969	11.60	ppb		98
74)	Styrene	9.445	104	376510	11.35	ppb		96
75)	Bromoform	9.642	173	33774	7.77	ppb		98
77)	p-Ethyltoluene	10.424	105	640827m	11.84	ppb		
78)	Isopropylbenzene	9.826	105	643401	10.73	ppb		99
80)	1,1,2,2-Tetrachloroethane	10.163	83	68317	11.25	ppb	#	100
81)	Bromobenzene	10.174	77	200230	10.48	ppb		91
82)	trans-1,4-Dichloro-2-b...	10.221	75	59896	10.02	ppb	#	47
83)	1,2,3-Trichloropropane	10.224	110	19481	10.76	ppb		84
84)	n-Propylbenzene	10.288	91	775534	10.80	ppb		99
85)	2-Chlorotoluene	10.385	91	444254	10.28	ppb		99
86)	4-Chlorotoluene	10.521	91	501183	10.90	ppb		97
87)	n-Decane	10.527	43	76776	9.10	ppb		89
88)	1,3,5-Trimethylbenzene	10.494	105	533528	11.18	ppb	#	69
89)	tert-Butylbenzene	10.841	119	454488	9.16	ppb		95
90)	1,2,4-Trimethylbenzene	10.908	105	516660	10.89	ppb		98
91)	sec-Butylbenzene	11.092	105	653298	10.64	ppb		99
92)	1,3-Dichlorobenzene	11.223	146	254835	10.15	ppb		98
93)	Limonene	11.228	68	148291	11.96	ppb	#	92
94)	p-Isopropyltoluene	11.270	119	570956	10.76	ppb		98
95)	1,4-Dichlorobenzene	11.342	146	243941	9.88	ppb		97
96)	1,2,3-Trimethylbenzene	11.370	105	486531	12.28	ppb		99
97)	p-Diethylbenzene	11.704	105	303915	10.90	ppb	#	99
98)	1,2-Dichlorobenzene	11.737	146	207072	10.63	ppb	#	87
99)	n-Butylbenzene	11.732	91	604761	11.33	ppb		97
100)	trans-Decahydronaphtha...	11.757	67	105110	10.63	ppb		92
101)	n-Undecane	11.882	57	89494	6.54	ppb	#	63
103)	cis-Decahydronaphthalene	12.394	81	106081	10.42	ppb	#	65
104)	1,2-Dibromo-3-chloropr...	12.628	75	5862	8.05	ppb		94
105)	1,2,4,5-Tetramethylben...	12.591	119	407861	10.82	ppb		98
106)	nitrobenzene	12.836	77	541m	10.87	ppb		
107)	1,2,4-Trichlorobenzene	13.571	180	82552	10.58	ppb		97
108)	Hexachloro-1,3-Butadiene	13.746	225	53876	10.48	ppb		98
109)	Naphthalene	13.866	128	124776	10.34	ppb		99
110)	1,2,3-Trichlorobenzene	14.122	180	52116	11.34	ppb		96

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252598.D
Acq On : 19 Oct 2023 7:29 pm
InstName : QV0A6
Operator : JTG
Sample : B31344-MSD1
Misc : Q8QV6101923A 8260 H AF 23J1154-04
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 19 23:11:23 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration



LCS RAW DATA

SDG: 23J1154
CLASS: VOA
METHOD: EPA 8260C

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252577.D
 Acq On : 19 Oct 2023 10:41 am
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31344-BS1
 Misc : QBQV6101923A
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 12:34:31 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	189730	10.00	ppb	# 0.00
44) CHLOROBENZENE-d5 (ISTD)	8.735	117	706144	10.00	ppb	0.00
76) 1,2-DICHLOROBENZENE-d4...	11.715	152	213565	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	175845	9.51	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	95.10%	
56) Toluene-d8 (SURR)	7.233	98	1018350	10.37	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	103.70%	
79) p-Bromofluorobenzene (...)	10.018	95	314459	10.31	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	103.10%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.498	85	164890	11.84	ppb	# 1
3) Freon-22	1.524	51	155493	10.86	ppb	# 98
4) Chloromethane	1.685	50	143469	10.78	ppb	# 42
5) Vinyl Chloride	1.774	62	184037	11.97	ppb	# 43
6) Bromomethane	2.091	94	30644	4.74	ppb	64
7) Chloroethane	2.200	64	133881	11.62	ppb	90
8) Trichlorofluoromethane	2.450	101	281775	11.60	ppb	98
10) Ethyl Ether	2.720	45	499301	93.77	ppb	# 61
11) Freon-113	2.959	101	155637	10.24	ppb	# 69
12) 1,1-Dichloroethylene	2.945	61	237759	10.75	ppb	89
13) Acrolein	2.845	56	8051	10.30	ppb	# 75
14) Acetone	2.981	43	42625	32.08	ppb	# 93
15) Iodomethane	3.087	142	80249	4.59	ppb	98
16) Allyl Chloride	3.296	76	88141	10.25	ppb	# 100
17) Methyl Acetate	3.285	43	25868	8.03	ppb	100
18) Carbon disulfide	3.165	76	403953	9.95	ppb	100
19) tert-Butyl Alcohol (TBA)	3.527	59	8839m	25.91	ppb	
20) Methylene Chloride	3.415	49	171084	9.74	ppb	# 74
21) Acrylonitrile	3.624	53	13686	8.58	ppb	# 67
22) trans-1,2-Dichloroethy...	3.680	61	228805	10.42	ppb	95
23) tert-Butyl Methyl Ethe...	3.674	73	205133	9.09	ppb	# 88
24) Hexane	3.947	57	260392	11.16	ppb	# 19
25) 1,1-Dichloroethane	4.086	63	285522	10.18	ppb	99
26) Vinyl Acetate	4.083	43	95716	9.90	ppb	# 99
27) Diisopropyl ether (DIPE)	4.119	45	377903	10.42	ppb	# 96
28) Ethyl-tert-Butyl ether...	4.459	59	321763	9.69	ppb	# 97
29) cis-1,2-Dichloroethylene	4.612	61	245248	10.43	ppb	93
30) 2-Butanone	4.603	72	5257	8.05	ppb	# 95
31) 2,2-Dichloropropane	4.620	77	208367	9.87	ppb	88
32) Tetrahydrofuran	4.868	42	8953	8.16	ppb	# 48
33) Bromochloromethane	4.834	49	97131	10.02	ppb	# 72
34) Chloroform	4.926	83	261942	9.83	ppb	# 84
35) 1,1,1-Trichloroethane	5.090	97	254411	10.01	ppb	96
36) Cyclohexane	5.165	56	297644	4.99	ppb	83
37) 1,1-Dichloropropylene	5.238	75	211953	10.33	ppb	# 85
39) Carbon Tetrachloride	5.238	117	220560	10.18	ppb	99
40) tert-Amyl alcohol (TAA)	5.452	59	11384m	47.86	ppb	
41) 1,2-Dichloroethane	5.466	62	133875	9.62	ppb	# 98
42) Benzene	5.419	78	622788	10.41	ppb	# 85
43) tert-Amyl methyl ether...	5.541	73	221529	8.80	ppb	# 99
45) Trichloroethylene	6.045	95	172279	10.64	ppb	92
46) Methyl Cyclohexane	6.278	83	299124	10.83	ppb	88
47) Methyl Methacrylate	6.334	69	33474	8.58	ppb	73
48) Dibromomethane	6.373	93	55119	9.54	ppb	# 69
49) Bromodichloromethane	6.537	83	153885	9.82	ppb	# 93
50) 1,2-Dichloropropane	6.290	63	149084	11.43	ppb	# 83
51) 1,4-Dioxane	6.373	88	3314m	86.29	ppb	
52) 2-nitropropane	6.732	43	8241	6.94	ppb	# 100

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252577.D
 Acq On : 19 Oct 2023 10:41 am
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31344-BS1
 Misc : QBQV6101923A
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 12:34:31 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	2-Chloroethyl vinyl ether	7.302	63	51481	11.27	ppb	#	93
54)	cis-1,3-Dichloropropene	6.966	75	187426	10.20	ppb	#	79
55)	4-Methyl-2-Pentanone	7.105	43	33722	9.34	ppb	#	80
57)	Toluene	7.305	91	685541	11.25	ppb		99
58)	n-Octane	7.441	43	235220	11.32	ppb		97
59)	trans-1,3-Dichloropropene	7.533	75	126851	9.77	ppb	#	89
60)	ethyl methacrylate	7.583	69	74238	9.39	ppb	#	100
61)	1,1,2-Trichloroethane	7.728	97	76698	9.70	ppb		92
62)	1,3-Dichloropropane	7.898	76	129207	9.76	ppb	#	62
63)	Tetrachloroethylene	7.834	166	171288	10.23	ppb	#	77
64)	2-Hexanone	7.948	43	21073	8.88	ppb	#	1
65)	n-Butyl Acetate	8.076	56	29129	9.55	ppb	#	26
66)	Dibromochloromethane	8.126	129	87957	9.48	ppb		96
67)	1,2-Dibromoethane	8.254	107	68766	9.89	ppb		97
68)	Chlorobenzene	8.769	112	397933	10.80	ppb		93
69)	1,1,1,2-tetrachloroethane	8.860	131	120862	10.28	ppb		99
70)	Ethyl Benzene	8.871	91	747221	11.84	ppb		97
71)	p- & m-Xylenes	9.008	91	1150297	23.42	ppb		95
72)	n-Nonane	9.050	43	156847	11.14	ppb		95
73)	o-Xylene	9.422	91	561836	11.36	ppb		99
74)	Styrene	9.445	104	394826	11.06	ppb		95
75)	Bromoform	9.642	173	32756	7.00	ppb		99
77)	p-Ethyltoluene	10.424	105	677010m	13.02	ppb		
78)	Isopropylbenzene	9.823	105	682407	11.84	ppb		99
80)	1,1,2,2-Tetrachloroethane	10.160	83	61515	10.54	ppb	#	99
81)	Bromobenzene	10.171	77	202465	11.03	ppb		92
82)	trans-1,4-Dichloro-2-b...	10.221	75	56278	9.79	ppb	#	47
83)	1,2,3-Trichloropropane	10.224	110	17612	10.12	ppb		95
84)	n-Propylbenzene	10.288	91	825976	11.97	ppb		99
85)	2-Chlorotoluene	10.385	91	472588	11.38	ppb		99
86)	4-Chlorotoluene	10.521	91	533443	12.07	ppb		97
87)	n-Decane	10.524	43	72124	8.90	ppb		90
88)	1,3,5-Trimethylbenzene	10.491	105	568202	12.39	ppb	#	69
89)	tert-Butylbenzene	10.841	119	483222	10.14	ppb		96
90)	1,2,4-Trimethylbenzene	10.908	105	545563	11.97	ppb		99
91)	sec-Butylbenzene	11.092	105	697501	11.82	ppb		99
92)	1,3-Dichlorobenzene	11.222	146	268606	11.14	ppb		98
93)	Limonene	11.225	68	165839	13.92	ppb		98
94)	p-Isopropyltoluene	11.270	119	615946	12.08	ppb		98
95)	1,4-Dichlorobenzene	11.339	146	257547	10.86	ppb		98
96)	1,2,3-Trimethylbenzene	11.367	105	501689	13.18	ppb		100
97)	p-Diethylbenzene	11.704	105	326741	12.20	ppb	#	99
98)	1,2-Dichlorobenzene	11.734	146	205185	10.97	ppb		98
99)	n-Butylbenzene	11.729	91	651468	12.70	ppb		96
100)	trans-Decahydronaphtha...	11.754	67	117004	12.31	ppb		93
101)	n-Undecane	11.882	57	63390	4.82	ppb	#	63
103)	cis-Decahydronaphthalene	12.394	81	115298	11.79	ppb	#	64
104)	1,2-Dibromo-3-chloropr...	12.627	75	5695	8.14	ppb		97
105)	1,2,4,5-Tetramethylben...	12.589	119	420970	11.62	ppb		99
106)	nitrobenzene	12.833	77	370m	7.80	ppb		
107)	1,2,4-Trichlorobenzene	13.571	180	78497	10.47	ppb		98
108)	Hexachloro-1,3-Butadiene	13.740	225	52525	10.63	ppb		98
109)	Naphthalene	13.863	128	110567	9.54	ppb		99
110)	1,2,3-Trichlorobenzene	14.116	180	45770	10.37	ppb		96

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

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252578.D
 Acq On : 19 Oct 2023 11:06 am
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31344-BSD1
 Misc : QBQV6101923A
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 13:23:51 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.697	70	187304	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.732	117	709654	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	227621	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.391	65	183074	10.02	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	100.20%	
56) Toluene-d8 (SURR)	7.235	98	1016410	10.30	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	103.00%	
79) p-Bromofluorobenzene (...)	10.020	95	320067	9.85	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	98.50%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.498	85	151621	11.03	ppb	# 1
3) Freon-22	1.535	51	145628	10.30	ppb	# 98
4) Chloromethane	1.690	50	130524	9.93	ppb	# 42
5) Vinyl Chloride	1.774	62	167123	11.01	ppb	# 43
6) Bromomethane	2.088	94	27456m	4.30	ppb	
7) Chloroethane	2.200	64	126950	11.16	ppb	90
8) Trichlorofluoromethane	2.450	101	263964	11.01	ppb	98
10) Ethyl Ether	2.720	45	536603	102.08	ppb	# 60
11) Freon-113	2.959	101	147304	9.82	ppb	98
12) 1,1-Dichloroethylene	2.948	61	222725	10.20	ppb	88
13) Acrolein	2.851	56	9086	11.77	ppb	# 76
14) Acetone	2.981	43	51839	39.76	ppb	# 94
15) Iodomethane	3.084	142	72488	4.20	ppb	98
16) Allyl Chloride	3.296	76	82236	9.68	ppb	# 100
17) Methyl Acetate	3.285	43	29023	9.13	ppb	# 95
18) Carbon disulfide	3.165	76	377080	9.40	ppb	100
19) tert-Butyl Alcohol (TBA)	3.521	59	11473m	33.70	ppb	
20) Methylene Chloride	3.415	49	169278	9.76	ppb	# 73
21) Acrylonitrile	3.624	53	15239	9.68	ppb	# 45
22) trans-1,2-Dichloroethy...	3.683	61	218605	10.09	ppb	95
23) tert-Butyl Methyl Ethe...	3.677	73	227268	10.20	ppb	# 88
24) Hexane	3.944	57	243967	10.59	ppb	# 15
25) 1,1-Dichloroethane	4.089	63	276322	9.98	ppb	99
26) Vinyl Acetate	4.086	43	104815	10.98	ppb	# 99
27) Diisopropyl ether (DIPE)	4.122	45	391203	10.93	ppb	# 96
28) Ethyl-tert-Butyl ether...	4.459	59	344940	10.52	ppb	# 96
29) cis-1,2-Dichloroethylene	4.615	61	239995	10.34	ppb	93
30) 2-Butanone	4.601	72	5439	8.43	ppb	# 95
31) 2,2-Dichloropropane	4.623	77	195829	9.40	ppb	# 65
32) Tetrahydrofuran	4.868	42	9754	9.00	ppb	# 43
33) Bromochloromethane	4.834	49	97134	10.15	ppb	# 82
34) Chloroform	4.926	83	258828	9.84	ppb	# 84
35) 1,1,1-Trichloroethane	5.090	97	242698	9.67	ppb	# 82
36) Cyclohexane	5.168	56	279749	4.75	ppb	82
37) 1,1-Dichloropropylene	5.238	75	202480	10.00	ppb	# 86
39) Carbon Tetrachloride	5.241	117	207912	9.72	ppb	# 59
40) tert-Amyl alcohol (TAA)	5.435	59	14397m	61.31	ppb	
41) 1,2-Dichloroethane	5.466	62	138774	10.10	ppb	# 99
42) Benzene	5.421	78	607794	10.29	ppb	# 86
43) tert-Amyl methyl ether...	5.544	73	246238	9.91	ppb	# 99
45) Trichloroethylene	6.047	95	165147	10.15	ppb	93
46) Methyl Cyclohexane	6.278	83	285466	10.28	ppb	88
47) Methyl Methacrylate	6.334	69	39810	10.15	ppb	# 66
48) Dibromomethane	6.373	93	58782	10.12	ppb	# 60
49) Bromodichloromethane	6.540	83	155588	9.88	ppb	93
50) 1,2-Dichloropropane	6.290	63	149532	11.41	ppb	# 99
51) 1,4-Dioxane	6.367	88	4363m	113.19	ppb	
52) 2-nitropropane	6.737	43	9034	7.56	ppb	# 100

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252578.D
 Acq On : 19 Oct 2023 11:06 am
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31344-BSD1
 Misc : QBQV6101923A
 ALS Vial : 5 Sample Multiplier: 1

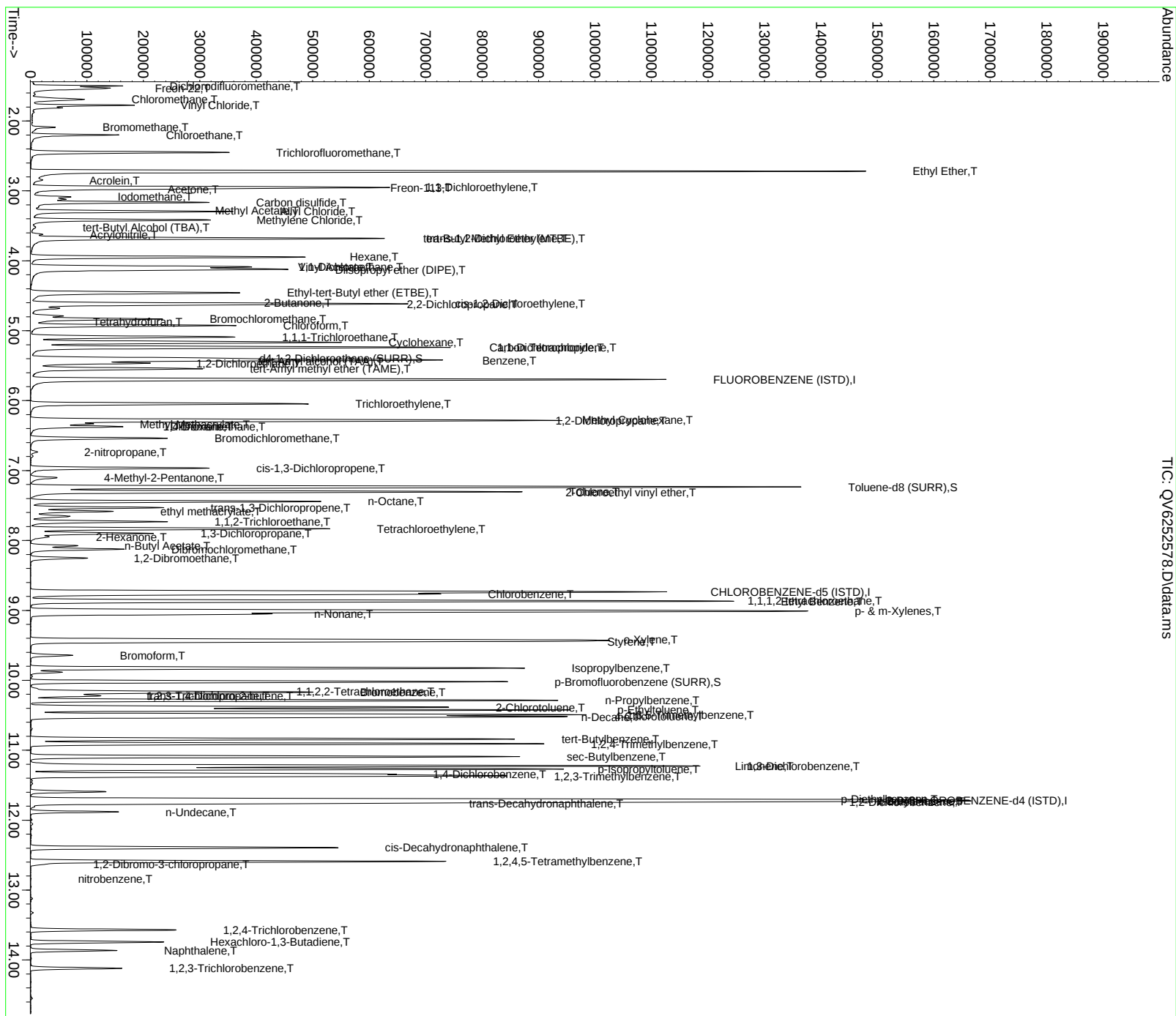
Quant Time: Oct 19 13:23:51 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	2-Chloroethyl vinyl ether	7.305	63	49320	10.74	ppb	#	93
54)	cis-1,3-Dichloropropene	6.966	75	191726	10.39	ppb	#	79
55)	4-Methyl-2-Pentanone	7.099	43	38840	10.70	ppb	#	79
57)	Toluene	7.302	91	671292	10.97	ppb		99
58)	n-Octane	7.441	43	219807	10.53	ppb		97
59)	trans-1,3-Dichloropropene	7.530	75	135220	10.37	ppb		100
60)	ethyl methacrylate	7.583	69	82437	10.38	ppb	#	100
61)	1,1,2-Trichloroethane	7.731	97	82396	10.37	ppb		92
62)	1,3-Dichloropropane	7.900	76	138829	10.43	ppb	#	86
63)	Tetrachloroethylene	7.834	166	164464	9.78	ppb	#	77
64)	2-Hexanone	7.950	43	24054	10.08	ppb	#	1
65)	n-Butyl Acetate	8.073	56	33695	11.00	ppb	#	29
66)	Dibromochloromethane	8.126	129	94248	10.11	ppb		98
67)	1,2-Dibromoethane	8.254	107	73583	10.53	ppb		98
68)	Chlorobenzene	8.766	112	394635	10.66	ppb		94
69)	1,1,1,2-tetrachloroethane	8.863	131	123106	10.42	ppb		99
70)	Ethyl Benzene	8.869	91	730188	11.51	ppb		97
71)	p- & m-Xylenes	9.008	91	1123827	22.77	ppb		95
72)	n-Nonane	9.052	43	141856	10.02	ppb		95
73)	o-Xylene	9.422	91	557744	11.22	ppb		99
74)	Styrene	9.442	104	398798	11.12	ppb	#	77
75)	Bromoform	9.642	173	36872	7.84	ppb		98
77)	p-Ethyltoluene	10.424	105	669063m	12.07	ppb		
78)	Isopropylbenzene	9.826	105	663585	10.80	ppb		99
80)	1,1,2,2-Tetrachloroethane	10.160	83	69557	11.18	ppb	#	99
81)	Bromobenzene	10.171	77	211892	10.83	ppb		91
82)	trans-1,4-Dichloro-2-b...	10.224	75	62340	10.18	ppb	#	48
83)	1,2,3-Trichloropropane	10.224	110	19596	10.56	ppb		85
84)	n-Propylbenzene	10.288	91	802882	10.91	ppb		99
85)	2-Chlorotoluene	10.385	91	466493	10.54	ppb		99
86)	4-Chlorotoluene	10.519	91	526751	11.19	ppb		97
87)	n-Decane	10.524	43	65781	7.62	ppb		90
88)	1,3,5-Trimethylbenzene	10.491	105	558353	11.42	ppb	#	68
89)	tert-Butylbenzene	10.841	119	467607	9.20	ppb		95
90)	1,2,4-Trimethylbenzene	10.908	105	542777	11.17	ppb		99
91)	sec-Butylbenzene	11.092	105	671816	10.68	ppb		99
92)	1,3-Dichlorobenzene	11.225	146	269438	10.48	ppb		98
93)	Limonene	11.228	68	157854	12.43	ppb		98
94)	p-Isopropyltoluene	11.267	119	598619	11.02	ppb		98
95)	1,4-Dichlorobenzene	11.339	146	263756	10.43	ppb		98
96)	1,2,3-Trimethylbenzene	11.367	105	509494	12.55	ppb		99
97)	p-Diethylbenzene	11.701	105	321948	11.28	ppb	#	99
98)	1,2-Dichlorobenzene	11.737	146	214925	10.78	ppb	#	87
99)	n-Butylbenzene	11.729	91	633129	11.58	ppb		95
100)	trans-Decahydronaphtha...	11.757	67	109950	10.85	ppb		92
101)	n-Undecane	11.882	57	55828	3.98	ppb	#	63
103)	cis-Decahydronaphthalene	12.394	81	108628	10.42	ppb		94
104)	1,2-Dibromo-3-chloropr...	12.630	75	6486	8.69	ppb	#	67
105)	1,2,4,5-Tetramethylben...	12.589	119	431881	11.19	ppb		99
106)	nitrobenzene	12.836	77	451m	8.89	ppb		
107)	1,2,4-Trichlorobenzene	13.571	180	86085	10.78	ppb		98
108)	Hexachloro-1,3-Butadiene	13.743	225	53144	10.09	ppb		99
109)	Naphthalene	13.863	128	130635	10.57	ppb		99
110)	1,2,3-Trichlorobenzene	14.119	180	52819	11.23	ppb		97

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252578.D
Acq On : 19 Oct 2023 11:06 am
InstName : QV0A6
Operator : JTG
Sample : B31344-BSD1
Misc : Q8QV6101923A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 13:23:51 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration



LCS RAW DATA

SDG: 23J1154
CLASS: VOA
METHOD: EPA 8260C

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252604.D
 Acq On : 19 Oct 2023 9:57 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31371-BS1
 Misc : QBQV6101923B
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 20 00:38:04 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.700	70	179486	10.00	ppb	# 0.00
44) CHLOROENZENE-d5 (ISTD)	8.735	117	673341	10.00	ppb	0.00
76) 1,2-DICHLOROENZENE-d4...	11.715	152	217452	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	178898	10.22	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	102.20%	
56) Toluene-d8 (SURR)	7.236	98	962667	10.28	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.80%	
79) p-Bromofluorobenzene (...)	10.023	95	306987	9.89	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	98.90%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	146906	11.15	ppb	# 1
3) Freon-22	1.540	51	146567	10.82	ppb	# 98
4) Chloromethane	1.693	50	127411	10.12	ppb	# 41
5) Vinyl Chloride	1.774	62	169111	11.62	ppb	# 48
6) Bromomethane	2.091	94	32800m	5.35	ppb	
7) Chloroethane	2.200	64	127294	11.68	ppb	90
8) Trichlorofluoromethane	2.450	101	268183	11.67	ppb	98
10) Ethyl Ether	2.720	45	532536	105.72	ppb	# 60
11) Freon-113	2.962	101	147396	10.25	ppb	# 78
12) 1,1-Dichloroethylene	2.948	61	225902	10.79	ppb	89
13) Acrolein	2.848	56	8877	12.00	ppb	# 83
14) Acetone	2.979	43	10512	8.20	ppb	# 93
15) Iodomethane	3.087	142	101548	6.14	ppb	98
16) Allyl Chloride	3.296	76	80972	9.95	ppb	# 100
17) Methyl Acetate	3.285	43	28380	9.32	ppb	# 96
18) Carbon disulfide	3.165	76	380969	9.92	ppb	100
19) tert-Butyl Alcohol (TBA)	3.524	59	10547m	32.39	ppb	
20) Methylene Chloride	3.416	49	170198	10.24	ppb	# 74
21) Acrylonitrile	3.621	53	15132	10.03	ppb	# 66
22) trans-1,2-Dichloroethy...	3.683	61	221151	10.65	ppb	# 96
23) tert-Butyl Methyl Ethe...	3.674	73	222833	10.44	ppb	# 88
24) Hexane	3.950	57	237586	10.77	ppb	# 53
25) 1,1-Dichloroethane	4.089	63	276482	10.42	ppb	99
26) Vinyl Acetate	4.086	43	93016	10.16	ppb	# 99
27) Diisopropyl ether (DIPE)	4.122	45	388601	11.33	ppb	# 96
28) Ethyl-tert-Butyl ether...	4.459	59	336361	10.71	ppb	# 97
29) cis-1,2-Dichloroethylene	4.615	61	239344	10.76	ppb	93
30) 2-Butanone	4.609	72	5564m	9.01	ppb	
31) 2,2-Dichloropropane	4.623	77	179038	8.97	ppb	# 65
32) Tetrahydrofuran	4.865	42	9569	9.21	ppb	# 21
33) Bromochloromethane	4.835	49	98023	10.69	ppb	# 65
34) Chloroform	4.926	83	262397	10.41	ppb	# 94
35) 1,1,1-Trichloroethane	5.091	97	245307	10.20	ppb	# 72
36) Cyclohexane	5.168	56	285885	5.07	ppb	83
37) 1,1-Dichloropropylene	5.241	75	205206	10.58	ppb	# 86
39) Carbon Tetrachloride	5.241	117	211559	10.32	ppb	99
40) tert-Amyl alcohol (TAA)	5.458	59	14604m	64.90	ppb	
41) 1,2-Dichloroethane	5.466	62	137557	10.45	ppb	99
42) Benzene	5.419	78	613933	10.84	ppb	# 86
43) tert-Amyl methyl ether...	5.544	73	235537	9.89	ppb	# 99
45) Trichloroethylene	6.048	95	167340	10.83	ppb	92
46) Methyl Cyclohexane	6.281	83	288279	10.95	ppb	88
47) Methyl Methacrylate	6.334	69	40729	10.95	ppb	# 28
48) Dibromomethane	6.376	93	58722	10.66	ppb	94
49) Bromodichloromethane	6.537	83	158103	10.59	ppb	# 94
50) 1,2-Dichloropropane	6.290	63	146704	11.80	ppb	# 99
51) 1,4-Dioxane	6.368	88	3946m	107.87	ppb	
52) 2-nitropropane	6.735	43	8062	7.12	ppb	# 100

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252604.D
 Acq On : 19 Oct 2023 9:57 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31371-BS1
 Misc : QBQV6101923B
 ALS Vial : 31 Sample Multiplier: 1

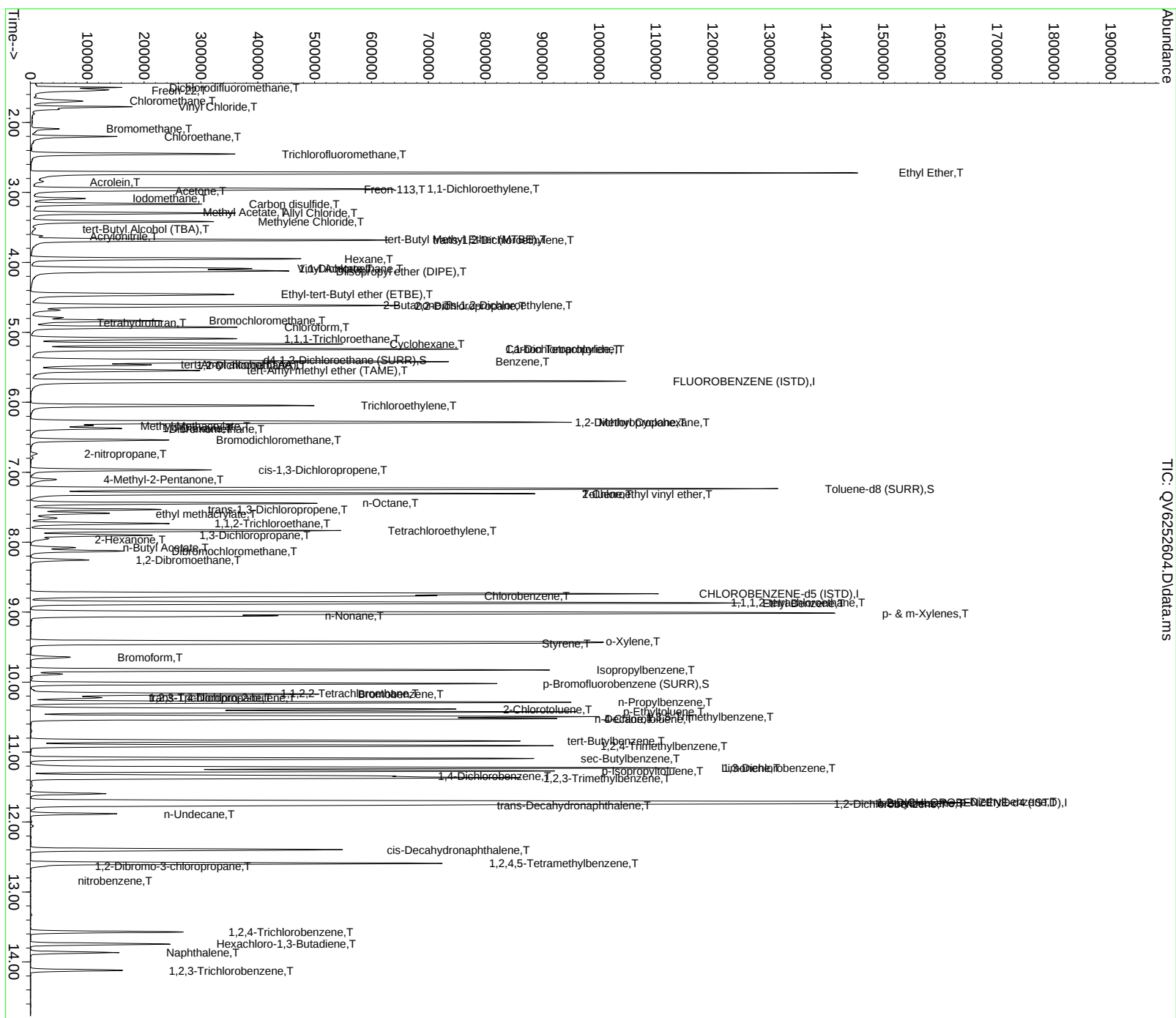
Quant Time: Oct 20 00:38:04 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	2-Chloroethyl vinyl ether	7.305	63	51264	11.77	ppb	#	93
54)	cis-1,3-Dichloropropene	6.966	75	186513	10.65	ppb	#	79
55)	4-Methyl-2-Pentanone	7.102	43	37731	10.96	ppb	#	79
57)	Toluene	7.305	91	673181	11.59	ppb		99
58)	n-Octane	7.441	43	215309	10.87	ppb		97
59)	trans-1,3-Dichloropropene	7.531	75	129386	10.45	ppb		100
60)	ethyl methacrylate	7.589	69	81020	10.75	ppb	#	100
61)	1,1,2-Trichloroethane	7.731	97	81789	10.85	ppb		92
62)	1,3-Dichloropropane	7.901	76	137499	10.89	ppb	#	62
63)	Tetrachloroethylene	7.834	166	166667	10.44	ppb	#	100
64)	2-Hexanone	7.956	43	23711	10.48	ppb	#	1
65)	n-Butyl Acetate	8.079	56	31130	10.71	ppb	#	26
66)	Dibromochloromethane	8.126	129	91166	10.31	ppb		96
67)	1,2-Dibromoethane	8.254	107	73007	11.01	ppb		98
68)	Chlorobenzene	8.766	112	391235	11.14	ppb		93
69)	1,1,1,2-tetrachloroethane	8.863	131	121709	10.86	ppb		99
70)	Ethyl Benzene	8.872	91	733732	12.19	ppb		96
71)	p- & m-Xylenes	9.013	91	1132190	24.17	ppb		95
72)	n-Nonane	9.052	43	142297	10.60	ppb		95
73)	o-Xylene	9.422	91	556725	11.81	ppb		99
74)	Styrene	9.447	104	395062	11.61	ppb		96
75)	Bromoform	9.642	173	34892	7.82	ppb		98
77)	p-Ethyltoluene	10.424	105	668747	12.63	ppb	#	82
78)	Isopropylbenzene	9.826	105	666814	11.36	ppb		99
80)	1,1,2,2-Tetrachloroethane	10.160	83	68254	11.49	ppb	#	99
81)	Bromobenzene	10.174	77	205985	11.02	ppb		92
82)	trans-1,4-Dichloro-2-b...	10.221	75	61006	10.43	ppb	#	50
83)	1,2,3-Trichloropropane	10.221	110	19096	10.78	ppb		88
84)	n-Propylbenzene	10.288	91	805357	11.46	ppb		98
85)	2-Chlorotoluene	10.385	91	466737	11.04	ppb		99
86)	4-Chlorotoluene	10.521	91	528259	11.74	ppb		97
87)	n-Decane	10.524	43	64655	7.83	ppb		91
88)	1,3,5-Trimethylbenzene	10.494	105	560032	11.99	ppb	#	68
89)	tert-Butylbenzene	10.841	119	467893	9.64	ppb		95
90)	1,2,4-Trimethylbenzene	10.908	105	542549	11.69	ppb		98
91)	sec-Butylbenzene	11.092	105	673709	11.21	ppb		99
92)	1,3-Dichlorobenzene	11.225	146	270121	11.00	ppb		98
93)	Limonene	11.228	68	142886	11.78	ppb	#	92
94)	p-Isopropyltoluene	11.270	119	602303	11.60	ppb		98
95)	1,4-Dichlorobenzene	11.342	146	262471	10.87	ppb		98
96)	1,2,3-Trimethylbenzene	11.370	105	505671	13.04	ppb		99
97)	p-Diethylbenzene	11.707	105	320907	11.77	ppb	#	98
98)	1,2-Dichlorobenzene	11.740	146	214560	11.26	ppb		98
99)	n-Butylbenzene	11.729	91	636573	12.19	ppb		95
100)	trans-Decahydronaphtha...	11.757	67	111350	11.51	ppb	#	75
101)	n-Undecane	11.882	57	54403	4.06	ppb	#	63
103)	cis-Decahydronaphthalene	12.397	81	110947	11.14	ppb	#	64
104)	1,2-Dibromo-3-chloropr...	12.625	75	6361	8.92	ppb		93
105)	1,2,4,5-Tetramethylben...	12.591	119	428579	11.62	ppb		99
106)	nitrobenzene	12.842	77	428m	8.84	ppb		
107)	1,2,4-Trichlorobenzene	13.574	180	87041	11.40	ppb		98
108)	Hexachloro-1,3-Butadiene	13.743	225	54285	10.79	ppb		98
109)	Naphthalene	13.866	128	125826	10.66	ppb		98
110)	1,2,3-Trichlorobenzene	14.122	180	53301	11.86	ppb		96

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252604.D
Acq On : 19 Oct 2023 9:57 pm
InstName : QV0A6
Operator : JTG
Sample : B31371-BS1
Misc : QV6101923B
ALS Vial : 31 Sample Multiplier: 1

Quant Time : Oct 20 00:38:04 2023
Quant Method : C:\msdchem\2\METHODS\VO610100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252605.D
 Acq On : 19 Oct 2023 10:22 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31371-BSD1
 Misc : QBQV6101923B
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 20 00:43:08 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) FLUOROBENZENE (ISTD)	5.703	70	178693	10.00	ppb	# 0.00
44) CHLOROBEZENE-d5 (ISTD)	8.738	117	678831	10.00	ppb	0.00
76) 1,2-DICHLOROBEZENE-d4...	11.715	152	220714	10.00	ppb	0.00
System Monitoring Compounds						
38) d4-1,2-Dichloroethane ...	5.394	65	179669	10.31	ppb	0.00
Spiked Amount 10.000	Range 69	- 130	Recovery	=	103.10%	
56) Toluene-d8 (SURR)	7.236	98	965820	10.23	ppb	0.00
Spiked Amount 10.000	Range 81	- 117	Recovery	=	102.30%	
79) p-Bromofluorobenzene (...)	10.021	95	307500	9.76	ppb	0.00
Spiked Amount 10.000	Range 79	- 122	Recovery	=	97.60%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.501	85	139769	10.66	ppb	# 1
3) Freon-22	1.538	51	140969	10.45	ppb	# 98
4) Chloromethane	1.699	50	123483	9.85	ppb	# 41
5) Vinyl Chloride	1.777	62	160399	11.07	ppb	# 47
6) Bromomethane	2.091	94	32782	5.37	ppb	77
7) Chloroethane	2.203	64	122741	11.31	ppb	90
8) Trichlorofluoromethane	2.450	101	258529	11.30	ppb	98
10) Ethyl Ether	2.723	45	537151	107.11	ppb	# 61
11) Freon-113	2.962	101	142471	9.96	ppb	99
12) 1,1-Dichloroethylene	2.948	61	218163	10.47	ppb	89
13) Acrolein	2.848	56	8818	11.97	ppb	# 72
14) Acetone	2.984	43	11480	9.01	ppb	# 94
15) Iodomethane	3.090	142	95017	5.77	ppb	98
16) Allyl Chloride	3.296	76	79162	9.77	ppb	# 100
17) Methyl Acetate	3.288	43	28738	9.48	ppb	# 96
18) Carbon disulfide	3.168	76	367875	9.62	ppb	100
19) tert-Butyl Alcohol (TBA)	3.521	59	11312m	34.78	ppb	
20) Methylene Chloride	3.418	49	166397	10.06	ppb	# 73
21) Acrylonitrile	3.622	53	15105	10.05	ppb	# 68
22) trans-1,2-Dichloroethy...	3.683	61	212618	10.28	ppb	95
23) tert-Butyl Methyl Ethe...	3.677	73	224027	10.54	ppb	# 88
24) Hexane	3.950	57	228439	10.40	ppb	# 19
25) 1,1-Dichloroethane	4.086	63	268659	10.17	ppb	99
26) Vinyl Acetate	4.086	43	97895	10.75	ppb	# 99
27) Diisopropyl ether (DIPE)	4.122	45	379903	11.12	ppb	# 95
28) Ethyl-tert-Butyl ether...	4.462	59	337174	10.78	ppb	# 96
29) cis-1,2-Dichloroethylene	4.615	61	231927	10.47	ppb	93
30) 2-Butanone	4.604	72	5624	9.15	ppb	# 95
31) 2,2-Dichloropropane	4.623	77	172150	8.66	ppb	# 65
32) Tetrahydrofuran	4.868	42	9616	9.30	ppb	# 23
33) Bromochloromethane	4.835	49	97310	10.66	ppb	# 84
34) Chloroform	4.929	83	255197	10.17	ppb	# 84
35) 1,1,1-Trichloroethane	5.091	97	235938	9.86	ppb	# 82
36) Cyclohexane	5.168	56	274482	4.89	ppb	83
37) 1,1-Dichloropropylene	5.238	75	197367	10.22	ppb	# 86
39) Carbon Tetrachloride	5.241	117	202014	9.90	ppb	99
40) tert-Amyl alcohol (TAA)	5.455	59	13957m	62.30	ppb	
41) 1,2-Dichloroethane	5.466	62	135548	10.34	ppb	99
42) Benzene	5.422	78	595917	10.57	ppb	# 86
43) tert-Amyl methyl ether...	5.547	73	236292	9.96	ppb	# 99
45) Trichloroethylene	6.048	95	161651	10.38	ppb	93
46) Methyl Cyclohexane	6.284	83	277643	10.46	ppb	88
47) Methyl Methacrylate	6.337	69	39848	10.62	ppb	# 28
48) Dibromomethane	6.373	93	58212	10.48	ppb	94
49) Bromodichloromethane	6.540	83	154429	10.26	ppb	# 94
50) 1,2-Dichloropropane	6.290	63	144471	11.52	ppb	# 99
51) 1,4-Dioxane	6.376	88	4220m	114.46	ppb	
52) 2-nitropropane	6.732	43	8715	7.62	ppb	# 100

Data Path : C:\msdchem\1\DATA\101923\
 Data File : QV6252605.D
 Acq On : 19 Oct 2023 10:22 pm
 InstName : QVOA6
 Operator : JTG
 Sample : BJ31371-BSD1
 Misc : QBQV6101923B
 ALS Vial : 32 Sample Multiplier: 1

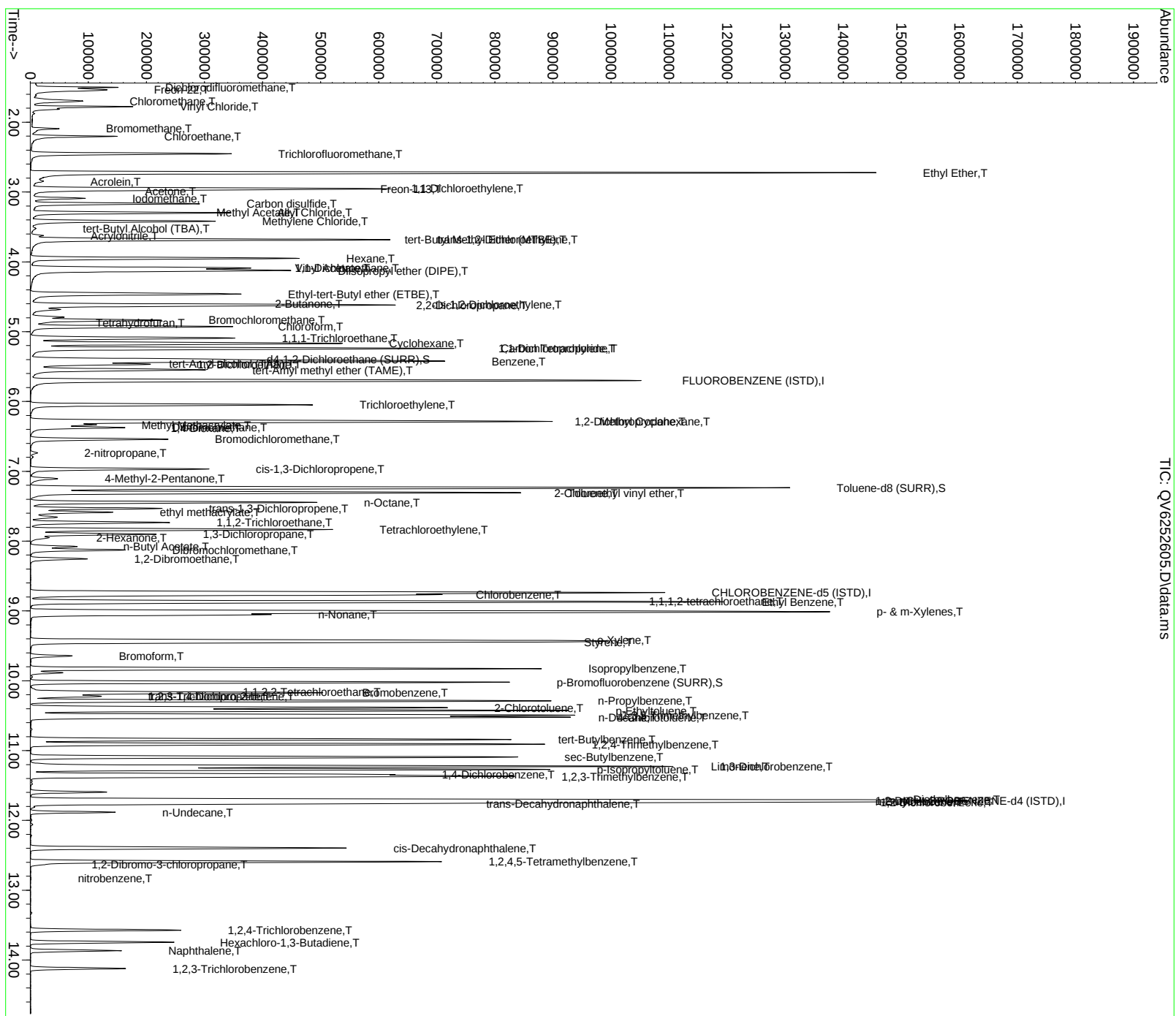
Quant Time: Oct 20 00:43:08 2023
 Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
 Quant Title : Volatile Organics EPA 8260C-Waters
 QLast Update : Wed Sep 27 11:23:26 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	2-Chloroethyl vinyl ether	7.308	63	49842	11.35	ppb	#	93
54)	cis-1,3-Dichloropropene	6.966	75	182289	10.32	ppb	#	78
55)	4-Methyl-2-Pentanone	7.105	43	37557	10.82	ppb	#	79
57)	Toluene	7.305	91	652574	11.14	ppb		99
58)	n-Octane	7.444	43	205532	10.29	ppb		98
59)	trans-1,3-Dichloropropene	7.531	75	128544	10.30	ppb		100
60)	ethyl methacrylate	7.583	69	81211	10.69	ppb	#	100
61)	1,1,2-Trichloroethane	7.734	97	82648	10.88	ppb		91
62)	1,3-Dichloropropane	7.901	76	136947	10.76	ppb		87
63)	Tetrachloroethylene	7.834	166	158744	9.87	ppb	#	100
64)	2-Hexanone	7.951	43	23877	10.46	ppb	#	1
65)	n-Butyl Acetate	8.076	56	31967	10.91	ppb	#	29
66)	Dibromochloromethane	8.126	129	91001	10.21	ppb		97
67)	1,2-Dibromoethane	8.254	107	72622	10.87	ppb		98
68)	Chlorobenzene	8.769	112	381627	10.77	ppb		93
69)	1,1,1,2-tetrachloroethane	8.861	131	118641	10.50	ppb		98
70)	Ethyl Benzene	8.872	91	711419	11.73	ppb		96
71)	p- & m-Xylenes	9.011	91	1092448	23.14	ppb		95
72)	n-Nonane	9.053	43	135510	10.01	ppb		95
73)	o-Xylene	9.423	91	540668	11.37	ppb		99
74)	Styrene	9.445	104	385260	11.23	ppb		96
75)	Bromoform	9.645	173	34954	7.77	ppb		99
77)	p-Ethyltoluene	10.427	105	646887m	12.04	ppb		
78)	Isopropylbenzene	9.826	105	641263	10.77	ppb		99
80)	1,1,2,2-Tetrachloroethane	10.157	83	67885	11.26	ppb	#	99
81)	Bromobenzene	10.174	77	205657	10.84	ppb		90
82)	trans-1,4-Dichloro-2-b...	10.224	75	61737	10.40	ppb	#	48
83)	1,2,3-Trichloropropane	10.224	110	19317	10.74	ppb		84
84)	n-Propylbenzene	10.288	91	775746	10.88	ppb		99
85)	2-Chlorotoluene	10.385	91	459859	10.71	ppb		99
86)	4-Chlorotoluene	10.522	91	514378	11.26	ppb		97
87)	n-Decane	10.524	43	62365	7.45	ppb		90
88)	1,3,5-Trimethylbenzene	10.491	105	542444	11.44	ppb	#	68
89)	tert-Butylbenzene	10.841	119	456293	9.26	ppb		95
90)	1,2,4-Trimethylbenzene	10.908	105	524771	11.14	ppb		99
91)	sec-Butylbenzene	11.092	105	652311	10.70	ppb		99
92)	1,3-Dichlorobenzene	11.225	146	262552	10.54	ppb		98
93)	Limonene	11.228	68	136140	11.06	ppb		98
94)	p-Isopropyltoluene	11.270	119	581448	11.04	ppb		98
95)	1,4-Dichlorobenzene	11.342	146	256510	10.46	ppb		98
96)	1,2,3-Trimethylbenzene	11.367	105	497421	12.64	ppb		99
97)	p-Diethylbenzene	11.704	105	310583	11.22	ppb	#	99
98)	1,2-Dichlorobenzene	11.737	146	210344	10.88	ppb	#	87
99)	n-Butylbenzene	11.729	91	614953	11.60	ppb		96
100)	trans-Decahydronaphtha...	11.757	67	107218	10.91	ppb	#	57
101)	n-Undecane	11.882	57	53223	3.91	ppb		96
103)	cis-Decahydronaphthalene	12.397	81	108704	10.75	ppb	#	64
104)	1,2-Dibromo-3-chloropr...	12.633	75	6548	9.05	ppb	#	55
105)	1,2,4,5-Tetramethylben...	12.592	119	422742	11.29	ppb		99
106)	nitrobenzene	12.834	77	453m	9.21	ppb		
107)	1,2,4-Trichlorobenzene	13.574	180	85353	11.02	ppb		97
108)	Hexachloro-1,3-Butadiene	13.746	225	53390	10.45	ppb		99
109)	Naphthalene	13.866	128	128546	10.73	ppb		99
110)	1,2,3-Trichlorobenzene	14.122	180	53819	11.80	ppb		97

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

Data Path : C:\msdchem\1\DATA\101923\
Data File : QV6252605.D
Acq On : 19 Oct 2023 10:22 pm
InstName : QV0A6
Operator : JTG
Sample : B31371-BSD1
Misc : Q8QV6101923B
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 20 00:43:08 2023
Quant Method : C:\msdchem\2\METHODS\VQ6L0100_SCADD.M
Quant Title : Volatile Organics EPA 8260C-Waters
Quant Update : Wed Sep 27 11:23:26 2023
Response via : Initial Calibration



BENCHSHEETS

SDG: 23J1154
CLASS: VOA
METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BJ31344

Prepared: 10/19/2023 06:15

York Analytical Laboratories, Inc. - Stratford

Printed: 10/23/2023 7:19:24AM

Matrix: Water

Preparation EPA 5030B

Surrogate used: Y22H072

1 ul

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		
23J1154-01 B	VOA, 8260 LOW #	25	25							<2	NA		
23J1154-02 B	VOA, 8260 LOW #	25	25							<2	NA		
23J1154-03 B	VOA, 8260 LOW #	25	25							<2	NA		
23J1154-04 B	VOA, 8260 LOW #	25	25							<2	NA		
23J1154-05 B	VOA, 8260 LOW #	25	25							<2	NA		
23J1154-06 B	VOA, 8260 LOW #	25	25							<2	NA		
23J1154-07 B	VOA, 8260 LOW #	25	25							<2	NA		
BJ31344-BLK1	QC	25	25							<2	NA		
BJ31344-BS1	QC	25	25	S23J043	5					<2	NA		
BJ31344-BSD1	QC	25	25	S23J043	5					<2	NA		
BJ31344-MS1	QC	25	25	S23J043	5			23J1154-04		<2	NA		
BJ31344-MSD1	QC	25	25	S23J043	5			23J1154-04		<2	NA		

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y21C284	Antifoam B Silicone Emulsion	0000272215			

BENCHSHEETS

SDG: 23J1154
CLASS: VOA
METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BJ31371

Prepared: 10/19/2023 06:17

York Analytical Laboratories, Inc. - Stratford

Printed: 10/23/2023 7:19:12AM

Matrix: Water

Preparation EPA 5030B

Surrogate used: Y22H072

1 ul

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		
23J1154-01RE1 C	VOA, 8260 LOW #	25	25							<2	NA		From BJ31344 by JTG on 10/19/2023
23J1154-02RE1 C	VOA, 8260 LOW #	25	25							<2	NA		From BJ31344 by JTG on 10/19/2023
23J1154-03RE1 C	VOA, 8260 LOW #	25	25							<2	NA		From BJ31344 by JTG on 10/19/2023
23J1154-05RE1 C	VOA, 8260 LOW #	25	25							<2	NA		From BJ31344 by JTG on 10/19/2023
BJ31371-BLK1	QC	25	25							<2	NA		
BJ31371-BS1	QC	25	25	S23J043	5					<2	NA		
BJ31371-BSD1	QC	25	25	S23J043	5					<2	NA		

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y21C284	Antifoam B Silicone Emulsion	0000272215			